Analytical Resources, LLC
Analytical Chemists and Consultants

18 March 2023

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

RE: AOC4 UR Phase 3

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

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

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

Associated Work Order(s)	Associated SDG ID(s)
22L0136	N/A

Susan Dunnihoo

Digitally signed by Susan Dunnihoo
Date: 2023.03.18 10:23:02 -07'00'

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

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

Analytical Resources, LLC

Susan Dunnihoo, Director, Client Services

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

ACCREDITED IN ACCORDANCE WITH nelac
Cert# 100006-012

1 of 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

№ 3428

Project/Client Name: LDW AOCA UR Phase 3
Project Number: 180067-02.04
Contact Name: Amara Vandervort
Sampled By: Windward

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

Shipping Date: 12.6.2022
Airbill Number: —
Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) PCBs	Archive	BEHP	Lead	TOC/Total Solids	Phenol	PAHs	4-methylphenol		Comments / Instructions [Jar tag number(s)]
12.6.2022	0941	LDW22-SS823	3	Sediment	X	X	X		X					
	1010	LDW22-SS822	3		X	X			X					
	1023	LDW22-SS821	3		X	X			X					
	1049	LDW22-SS820	3		X	X			X					
	1111	LDW22-SS819	3		X	X		X	X					
	1124	LDW22-SS818	3		X	X			X		X			
	1205	LDW22-SS811	3		X	X			X					
	1226	LDW22-SS786	3		X	X			X	X				
	1316	LDW22-SS766	3		X	X			X	X				
	1335	LDW22-SS771	3		X	X			X			X		
	1335	LDW22-SS771-FD	3		X	X			X			X		
↓	1357	LDW22-SS772	3	↓	X	X			X			X		
		Total Number of Containers	36	Purchase Order / Statement of Work # APJ-110222-AOCA-ARI										

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: Suzanne Replinger		Print name: YA YA	
Signature:		Signature:	
Company: Windward	Company: YA YA SAFETY	Company: YA YA SAFETY	Company: ARI
Date/Time: 12.6.2022 / 1620	Date/Time: 12/6/22 4:20	Date/Time: 12/6/22 4:50 PM	Date/Time: 12/6/22 1650

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

Wind Ward environmental LLC

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

206.378.1364

To be completed by Laboratory upon sample receipt:

Date of receipt:: 12/06/22	Laboratory W.O. #: 22L0136
Condition upon receipt: good	Time of receipt: 16:50
Cooler temperature: 5.8	Received by: Isabelle Beasley

2 of 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

№ 3429

Project/Client Name: LDW AOC4 VR Phase 3
Project Number: 180067-02.04
Contact Name: Amara Vandervort
Sampled By: Windward

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

Shipping Date: 12.6.2022
Airbill Number: —
Turnaround requested: 5b.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) PCBs	TOC / total solids	Archive	cPAHs				Comments / Instructions [Jar tag number(s)]
12.6.2022	1428	LDW22-SS825	3	sediment		NA	x	x				NA = archive
↓	1445	LDW22-SS824	3	sediment		NA	x	x				NA = archive
		Total Number of Containers	6	Purchase Order / Statement of Work # APJ-110222-AOC4-ARL								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: Suzanne Replinger		Print name: YARED	
Signature:	Company: YA YA SAFETY	Signature:	Company: ART
Company: Windward Env.	Date/Time: 12/6/22 4:20PM	Company: YA YA SAFETY	Date/Time: 12/6/22 16:50
Date/Time: 12.6.2022 / 1620		Date/Time: 12/6/22 4:50PM	

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

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

To be completed by Laboratory upon sample receipt:

Date of receipt:: 12/06/22	Laboratory W.O. #: 22L0136
Condition upon receipt: good	Time of receipt: 16:50
Cooler temperature: 5.8	Received by: Isabelle Beasley

1 of 1

CHAIN-OF-CUSTODY/TEST REQUEST FORM

TIER 2

№ 3387

Project/Client Name: AOC4 UR Phase 3
Project Number: 180067-02.04
Contact Name: Amara Vandervort
Sampled By: Windward

Ship to: ARI
Attn: Sue Dunnihoo
Shipper: Courier
Form filled out by: B. Quinlisk/AV

Shipping Date: 12/6/2022
Airbill Number: —
Turnaround requested: std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive							Comments / Instructions [Jar tag number(s)]
12/5/22	1220	LDW22-SC784A	3	Sediment	X							HOLD ALL
"	"	LDW22-SC784N	3		X							
"	"	LDW22-SC784O	3		X							
12/5/22	1220	LDW22-SC784P	3		X							
↓	1354	" -SC785O	3		X							
12/5/22	↓	↓ -SC785P	3		X							
12/6/22	0749	LDW22-SC776N	3		X							
12/6/22	0749	LDW22-SC776O	3		X							
		Total Number of Containers	24									

Purchase Order / Statement of Work # APJ-110222-AOC4-ARL

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: Amara Vandervort		Print name: YA YA SAFETY	
Signature: AVandervort		Signature:	
Company: Windward	Company: YA YA SAFETY	Company: YA YA SAFETY	Company: ARI
Date/Time: 12/6/2022 1620	Date/Time: 12/6/22 4:20 PM	Date/Time: 12/6/22 4:50PM	Date/Time: 12/6/22 1650

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

Wind Ward environmental LLC

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

206.378.1364

To be completed by Laboratory upon sample receipt:

Date of receipt:: 12/06/22	Laboratory W.O. #: 22L0136
Condition upon receipt: good	Time of receipt: 16:50
Cooler temperature: 5.6	Received by: Isabelle BCastes

Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Winward

Project Name: LDW AOC4 UR Phase 3

COC No(s): 3428, 3429, 3387 NA

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

Assigned ARI Job No: ~~22L00~~PID 22L0136

Tracking No: NA

Preliminary Examination Phase:

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

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 9.6 2.4 9.9 5.6 5.8 3.9 5.0

Time 16:50

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

Temp Gun ID#:

Cooler Accepted by: CB Date: 12/6/22 Time: 1650

Complete custody forms and attach all shipping documents

Log-In Phase:

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

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

Samples Logged by: PTB Date: 12/07/22 Time: 9:04 Labels checked by:

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

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

Additional Notes, Discrepancies, & Resolutions:

By: Date:

Anchor QEA, LLC	Project: AOC4 UR Phase 3	
1201 3rd Ave, Suite 2600	Project Number: 180067-02.04	**Reported:**
Seattle, WA 98101	Project Manager: Ali Judkins	03/16/2023 11:37

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Sample ID	Matrix	Date Sampled	Date Received
22L0136-01	LDW22-SS823	Solid	12/06/22 09:41	12/06/22 16:40
22L0136-02	LDW22-SS822	Solid	12/06/22 10:10	12/06/22 16:40
22L0136-03	LDW22-SS821	Solid	12/06/22 10:23	12/06/22 16:40
22L0136-04	LDW22-SS820	Solid	12/06/22 10:49	12/06/22 16:40
22L0136-05	LDW22-SS819	Solid	12/06/22 11:11	12/06/22 16:40
22L0136-06	LDW22-SS818	Solid	12/06/22 11:24	12/06/22 16:40
22L0136-07	LDW22-SS811	Solid	12/06/22 12:05	12/06/22 16:40
22L0136-08	LDW22-SS786	Solid	12/06/22 12:26	12/06/22 16:40
22L0136-09	LDW22-SS766	Solid	12/06/22 13:16	12/06/22 16:40
22L0136-10	LDW22-SS771	Solid	12/06/22 13:35	12/06/22 16:40
22L0136-11	LDW22-SS771-FD	Solid	12/06/22 13:35	12/06/22 16:40
22L0136-12	LDW22-SS772	Solid	12/06/22 13:57	12/06/22 16:40
22L0136-13	LDW22-SS825	Solid	12/06/22 14:28	12/06/22 16:40
22L0136-14	LDW22-SS824	Solid	12/06/22 14:45	12/06/22 16:40
22L0136-15	LDW22-SC784A	Solid	12/05/22 12:20	12/06/22 16:40
22L0136-16	LDW22-SC784N	Solid	12/05/22 12:20	12/06/22 16:40
22L0136-17	LDW22-SC784O	Solid	12/05/22 12:20	12/06/22 16:40
22L0136-18	LDW22-SC784P	Solid	12/05/22 12:20	12/06/22 16:40
22L0136-19	LDW22-SC785O	Solid	12/05/22 13:54	12/06/22 16:40
22L0136-20	LDW22-SC785P	Solid	12/05/22 13:54	12/06/22 16:40
22L0136-21	LDW22-SC776N	Solid	12/06/22 07:49	12/06/22 16:40
22L0136-22	LDW22-SC776O	Solid	12/06/22 07:49	12/06/22 16:40

Anchor QEA, LLC	Project: AOC4 UR Phase 3	
1201 3rd Ave, Suite 2600	Project Number: 180067-02.04	**Reported:**
Seattle WA, 98101	Project Manager: Ali Judkins	16-Mar-2023 11:37

Case Narrative

Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Work Order: 22L0136

Sample receipt

Samples as listed on the preceding page were received 06-Dec-2022 16:40 under ARI work order 22L0136. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Semivolatiles - EPA Method SW8270E

The sample(s) were extracted and analyzed within the recommended holding times. Samples were run at dilution due to color and characteristics of the extracts.

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

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

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

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

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

Polynuclear Aromatic Hydrocarbons (PAH) - EPA Method SW8270E-SIM

The sample(s) were extracted and analyzed within the recommended holding times. Samples were initially run at dilution due to extract color. As all target compounds were detected, no further analysis was performed.

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

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

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

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

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

Anchor QEA, LLC	Project: AOC4 UR Phase 3	
1201 3rd Ave, Suite 2600	Project Number: 180067-02.04	**Reported:**
Seattle WA, 98101	Project Manager: Ali Judkins	16-Mar-2023 11:37

Case Narrative

PCB Aroclors - EPA Method SW8082A

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

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

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

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

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

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

Total Metals - EPA Method 6020B

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

Initial and continuing calibrations were within method requirements.

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

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

The batch BLK0495 matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits, reported under work order 22L0383.

Wet Chemistry (Total Organic Carbon)

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

Initial and continuing calibrations were within method requirements.

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

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

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

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits, Batch BKL0268 matrix QC is reported under work order 22L0105.

Revised to correct SVOA SRM
Revised 3/2/23 to correct SIM-PAH Lists
Revised 03/15/2023 to add to SVOC list

QUALIFIERS AND NOTES

Qualifier	Definition
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
Q	Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20% RSD, <20% drift or minimum RRF)
P1	The reported value is greater than 40% difference between the concentrations determined on two GC columns where applicable.
J	Estimated concentration value detected below the reporting limit.
H	Hold time violation - Hold time was exceeded.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL)
D	The reported value is from a dilution
*	Flagged value is not within established control limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW22-SS823

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

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

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-01 A	SDG:	22L0136
Sampled:	12/06/22 09:41	Prepared:	12/09/22 14:39	File ID:	NT1422123075.D
% Solids:	51.20	Preparation:	EPA 3546 (Microwave)	Analyzed:	01/01/23 04:53
Batch:	BKL0193	Sequence:	SKL0355	Initial/Final:	19.55 g Wet / 1 mL
Instrument:	NT14	Column:	ZB-5MS	Calibration:	FL00066
Cleanups:	GPC				

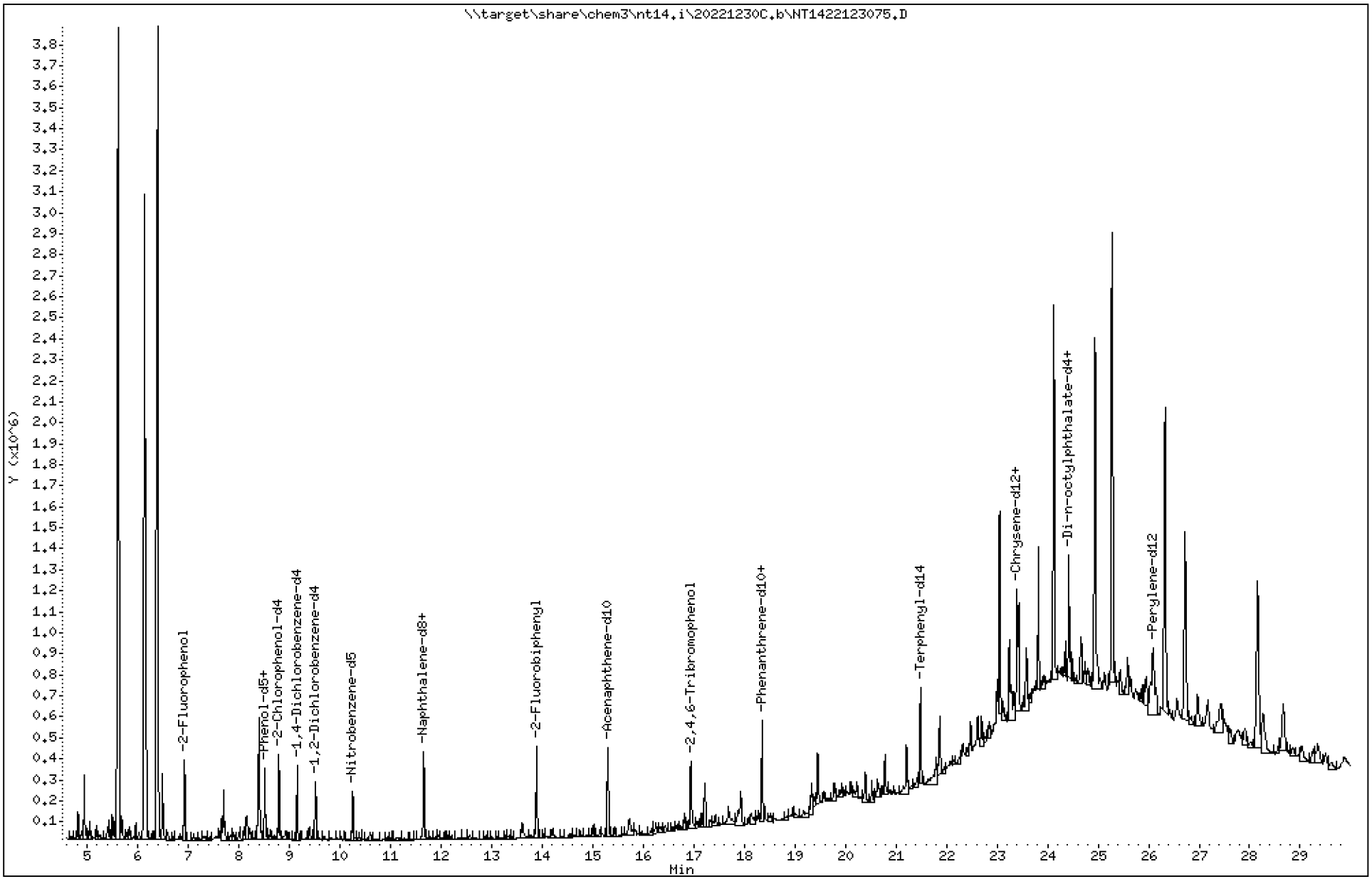
CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
117-81-7	bis(2-Ethylhexyl)phthalate	1	359		5.5	50.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	499.52	436	87.2	35 - 120	
p-Terphenyl-d14	499.52	421	84.3	37 - 120	

Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123075.D
Date : 01-JAN-2023 04:53
Client ID:
Sample Info: 22L0136-01

Instrument: nt14.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



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Date : 01-JAN-2023 04:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-01

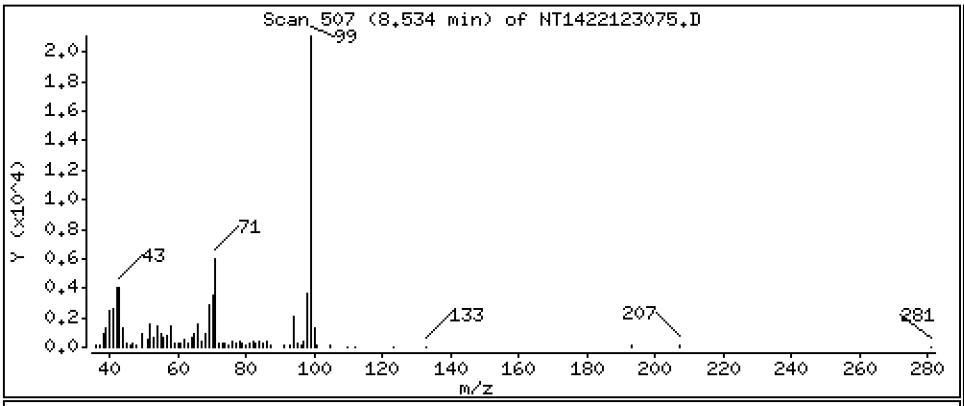
Operator: VTS

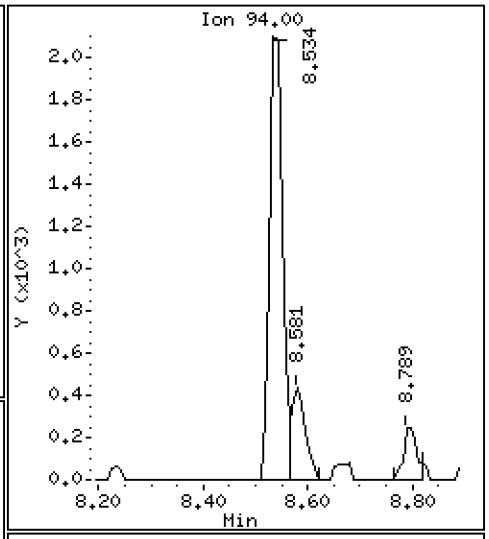
Column phase: ZB-5msi

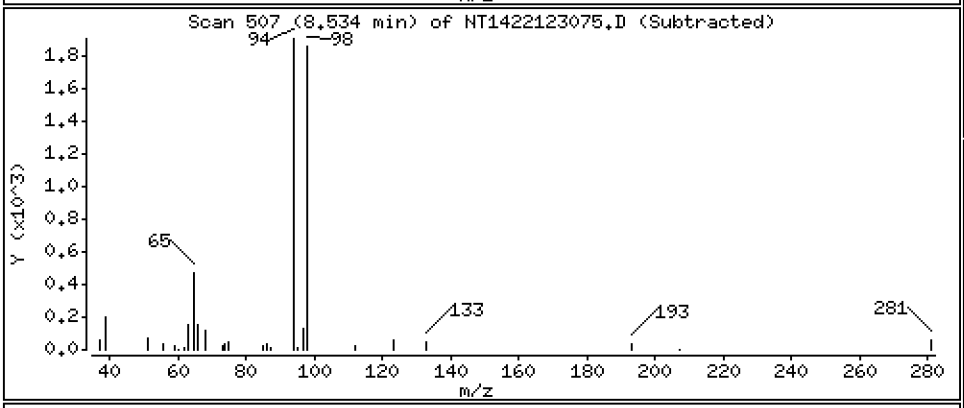
Column diameter: 0.25

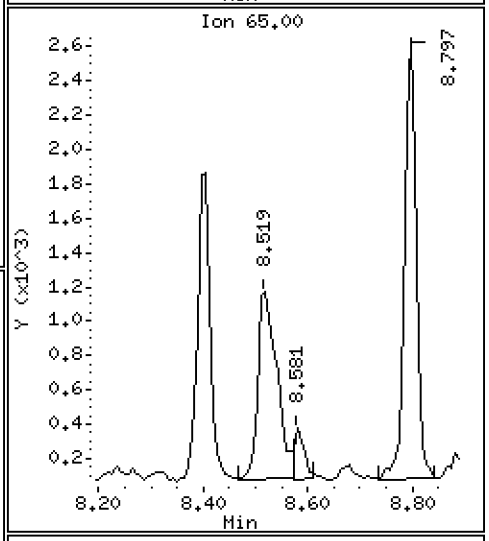
3 Phenol

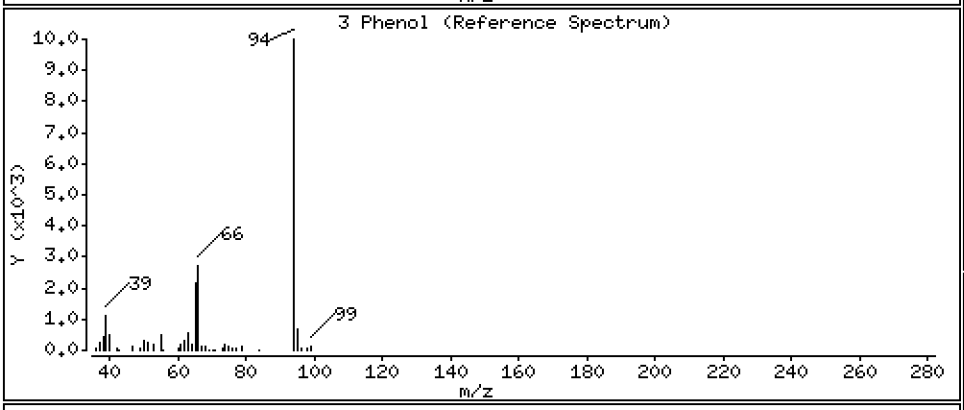
Concentration: 0.08868 ug/mL

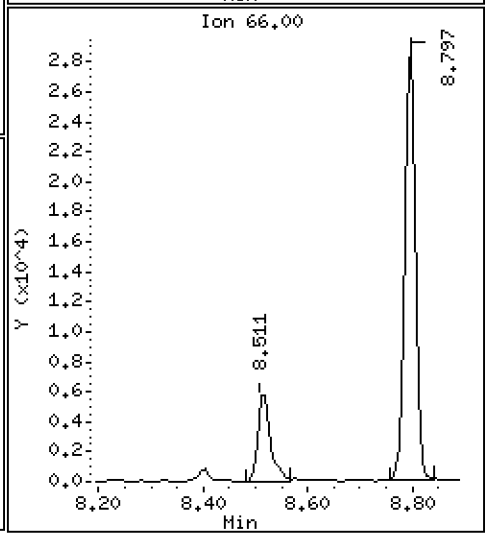


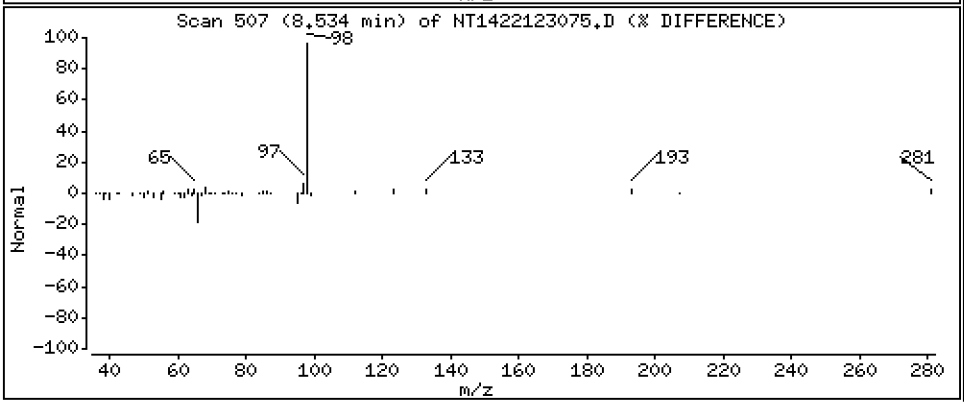












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123075.D

Date : 01-JAN-2023 04:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-01

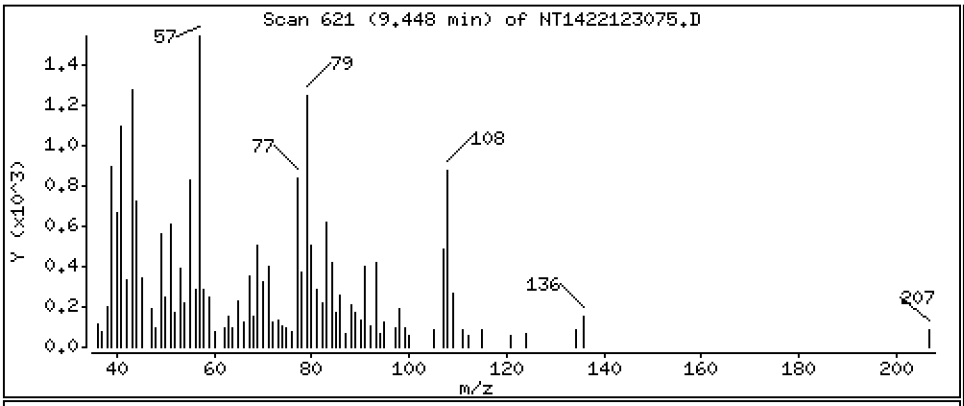
Operator: VTS

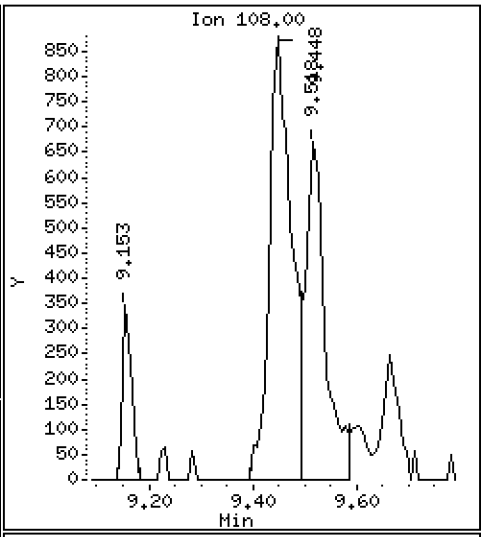
Column phase: ZB-5msi

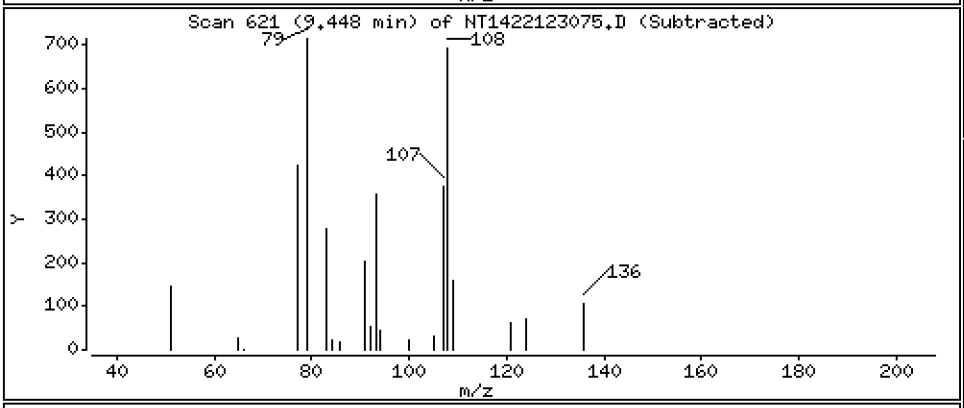
Column diameter: 0.25

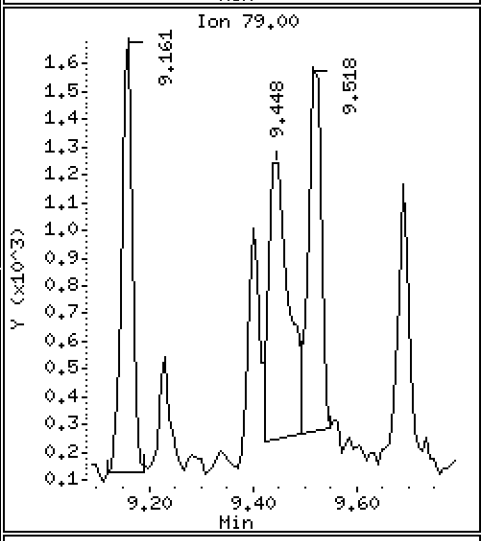
11 Benzyl alcohol

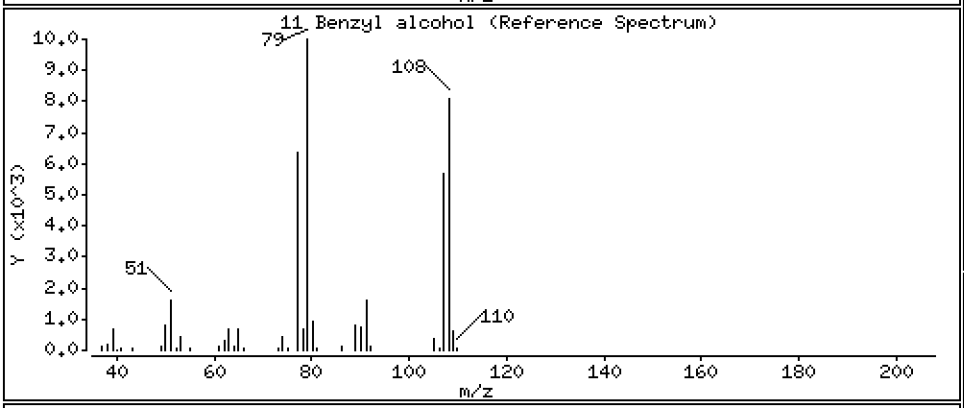
Concentration: 0.1485 ug/mL

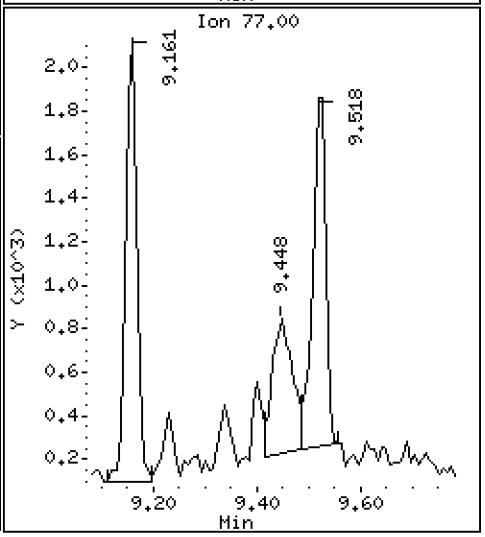


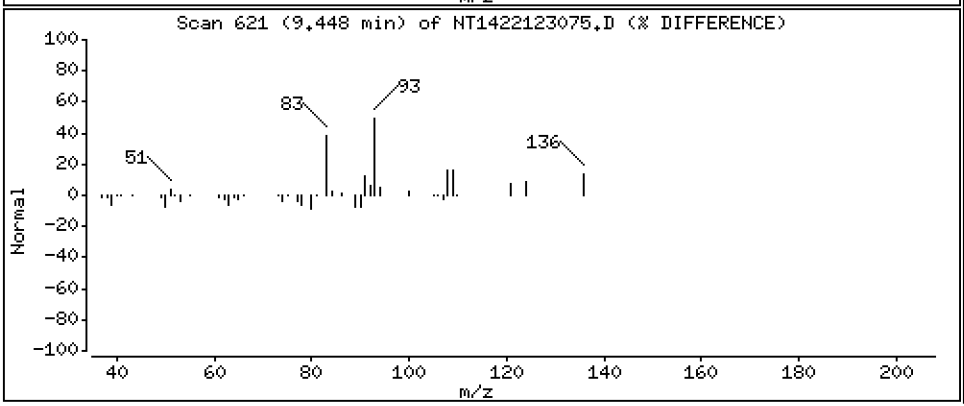












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Date : 01-JAN-2023 04:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-01

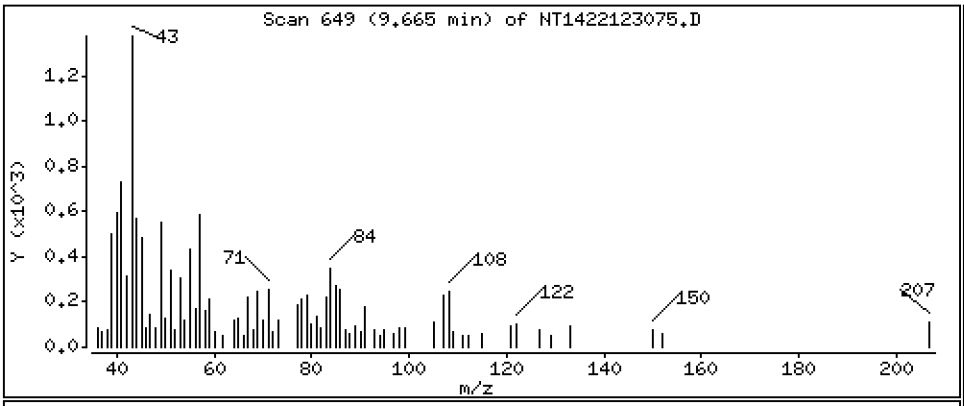
Operator: VTS

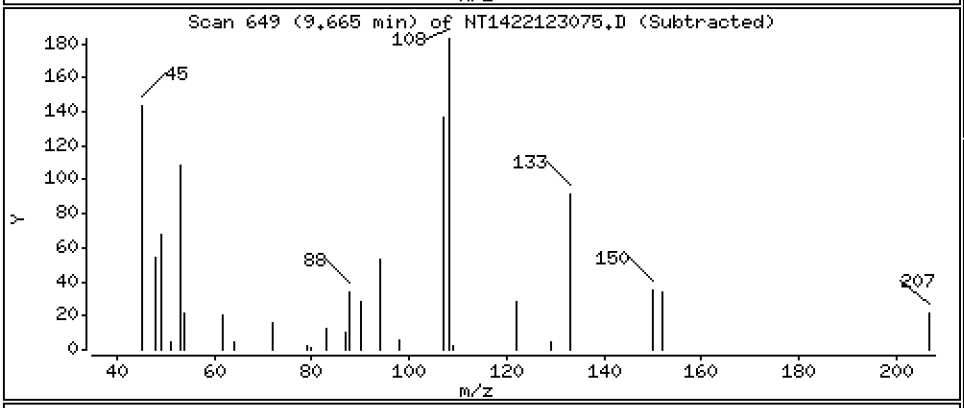
Column phase: ZB-5msi

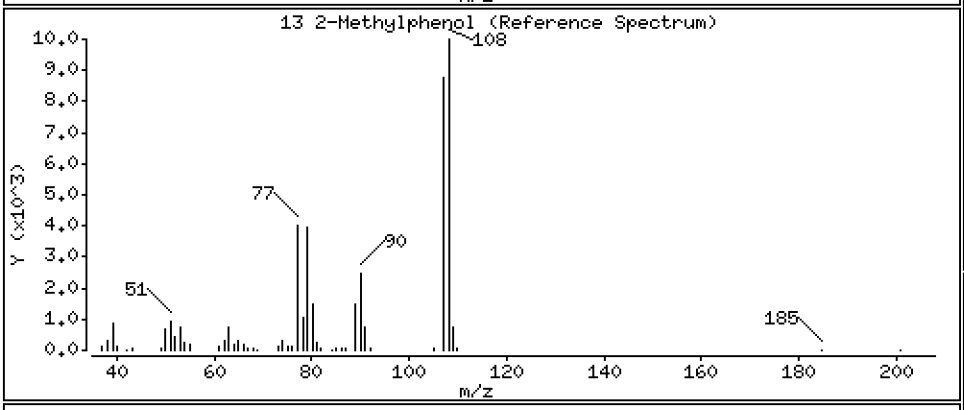
Column diameter: 0.25

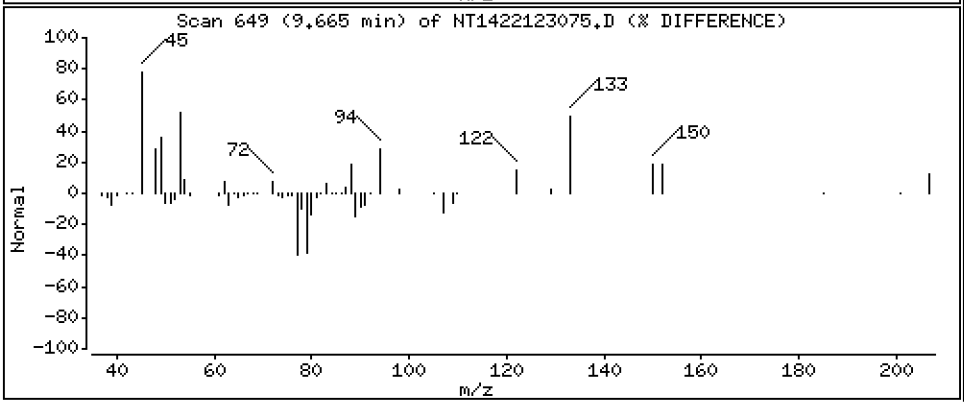
13 2-Methylphenol

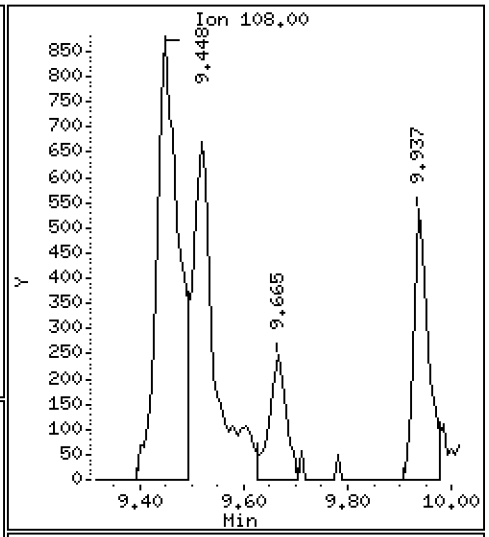
Concentration: 0.01896 ug/mL

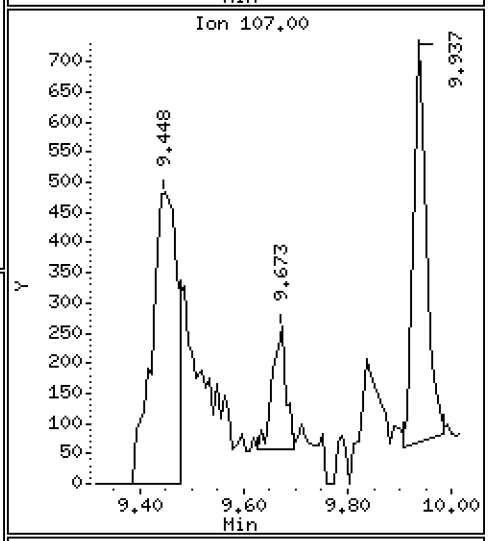


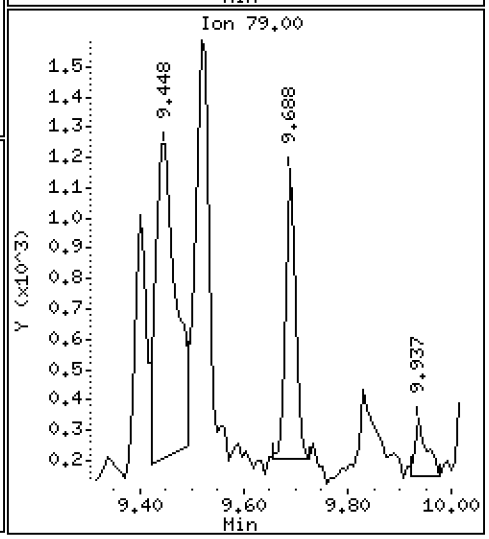












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Date : 01-JAN-2023 04:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-01

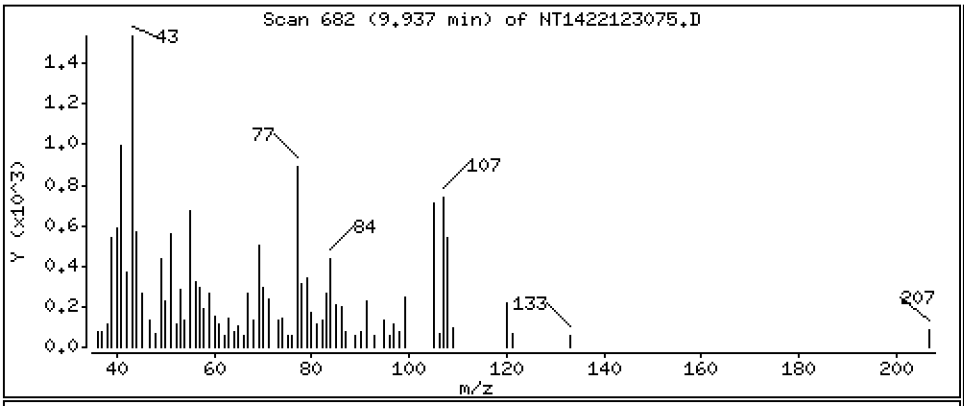
Operator: VTS

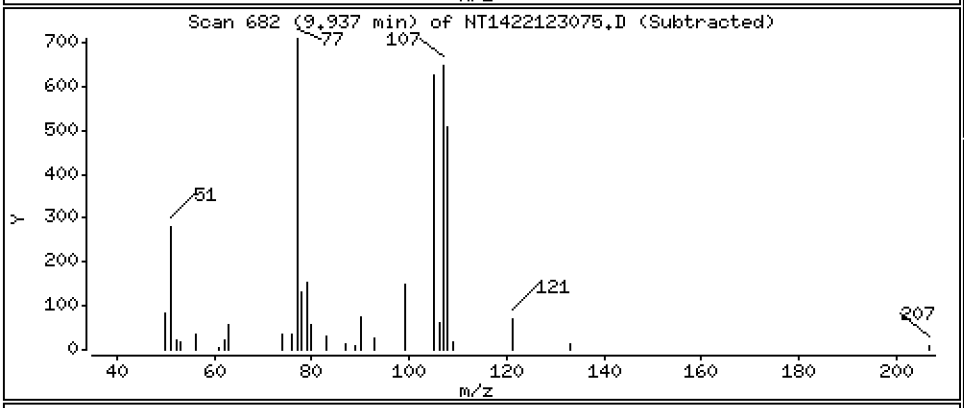
Column phase: ZB-5msi

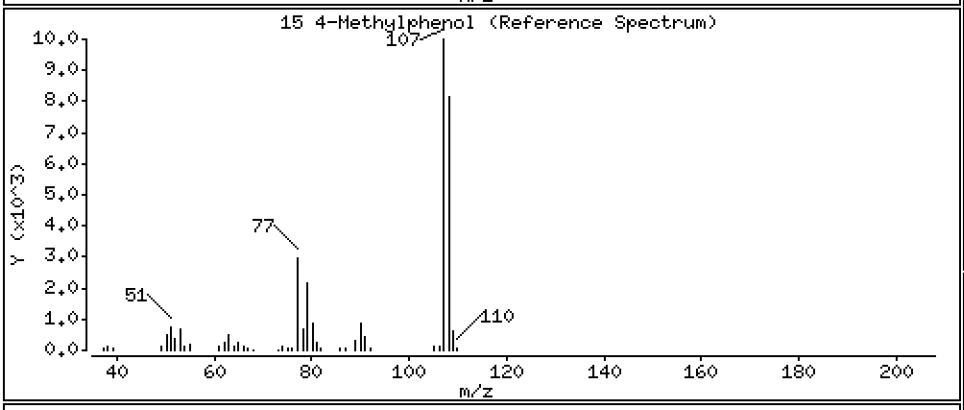
Column diameter: 0.25

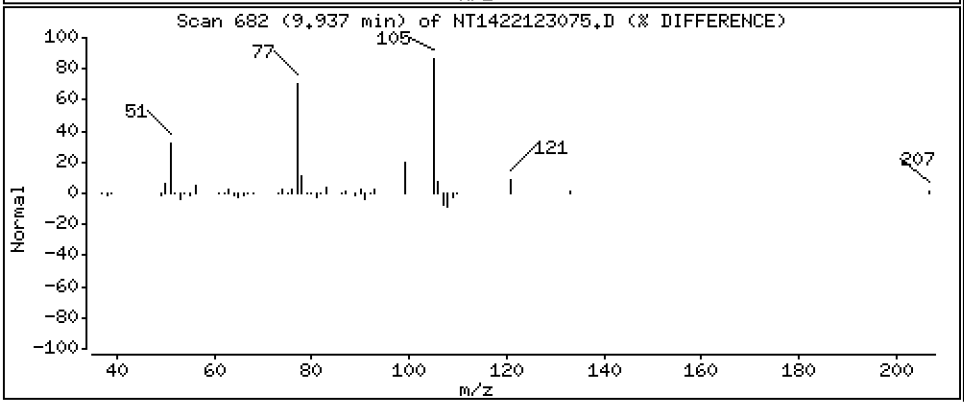
15 4-Methylphenol

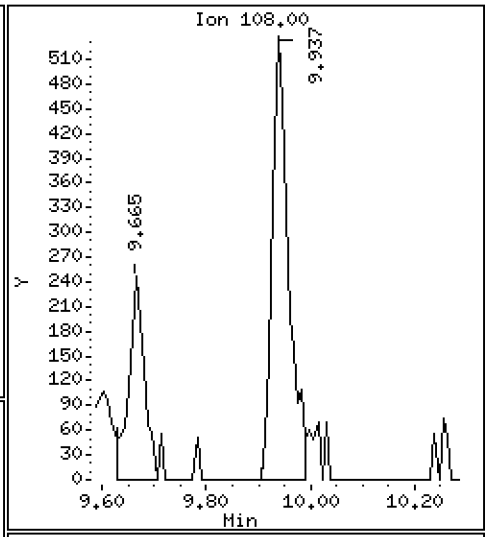
Concentration: 0.03834 ug/mL

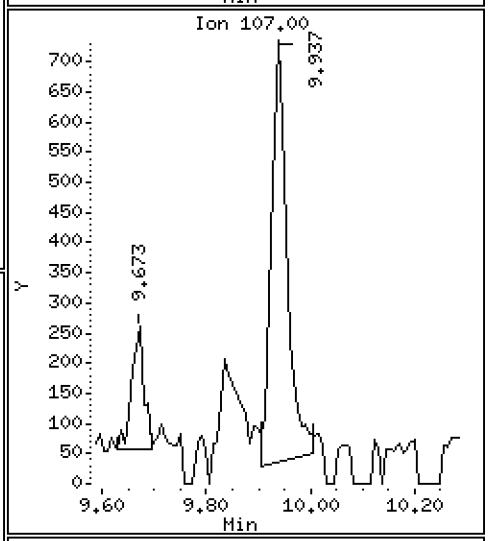


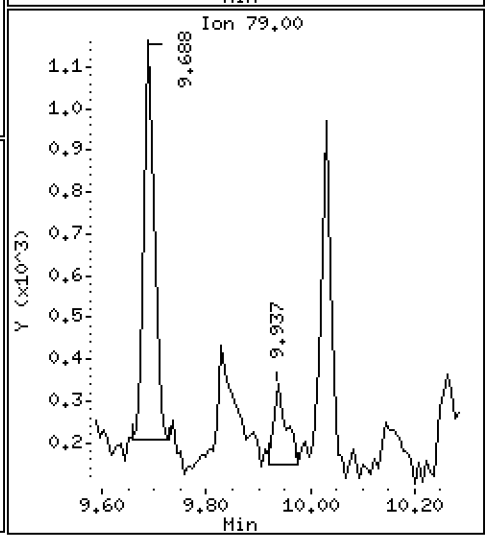












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Date : 01-JAN-2023 04:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-01

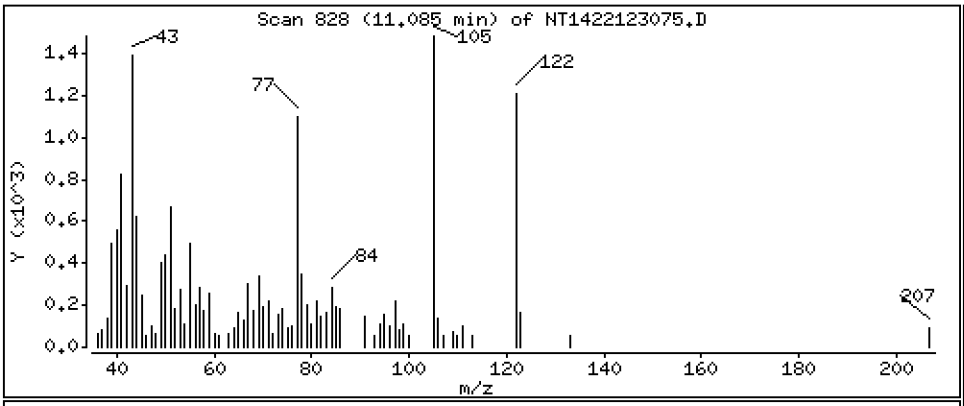
Operator: VTS

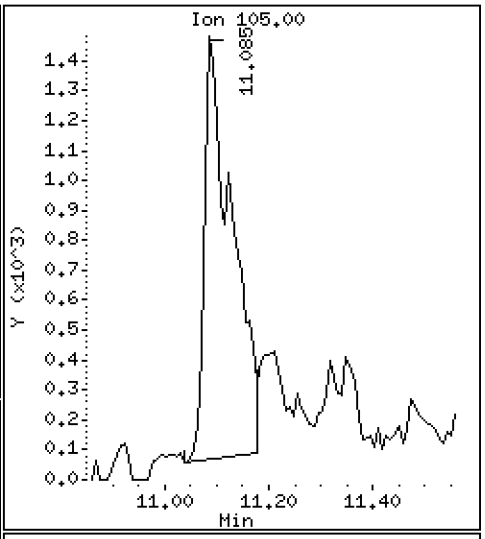
Column phase: ZB-5msi

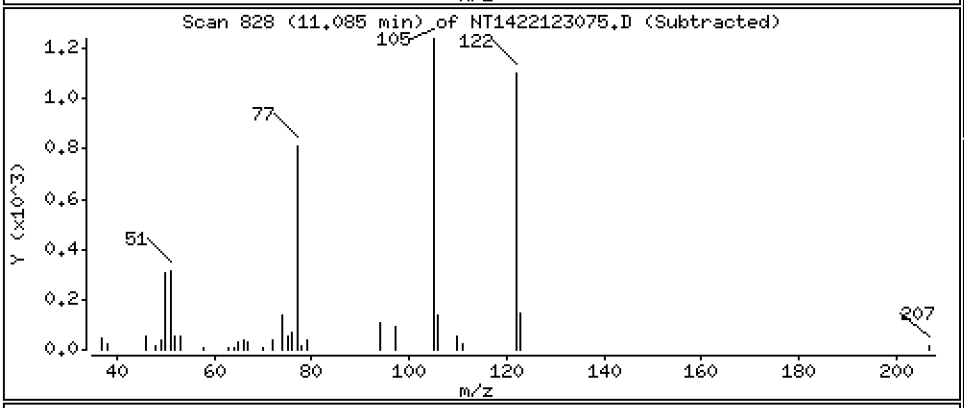
Column diameter: 0.25

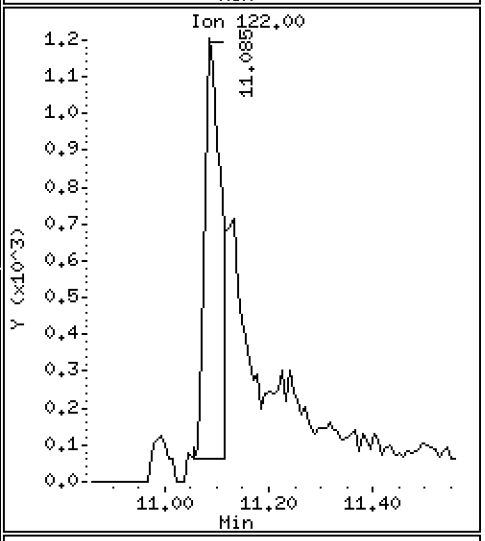
24 Benzoic acid

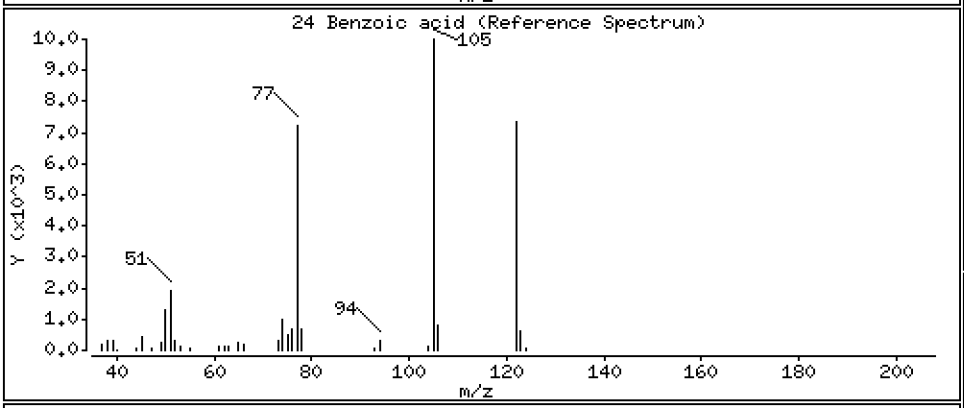
Concentration: 0.3143 ug/mL

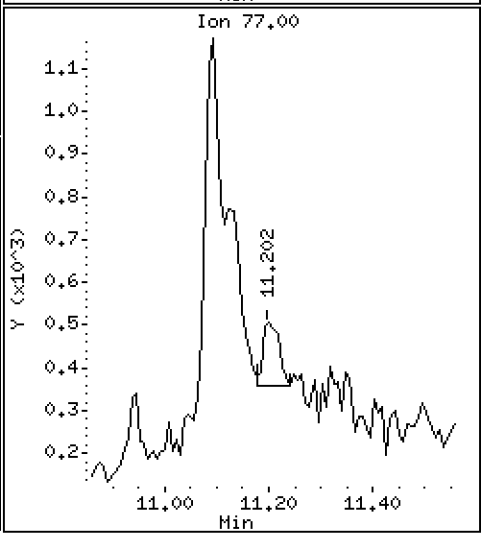


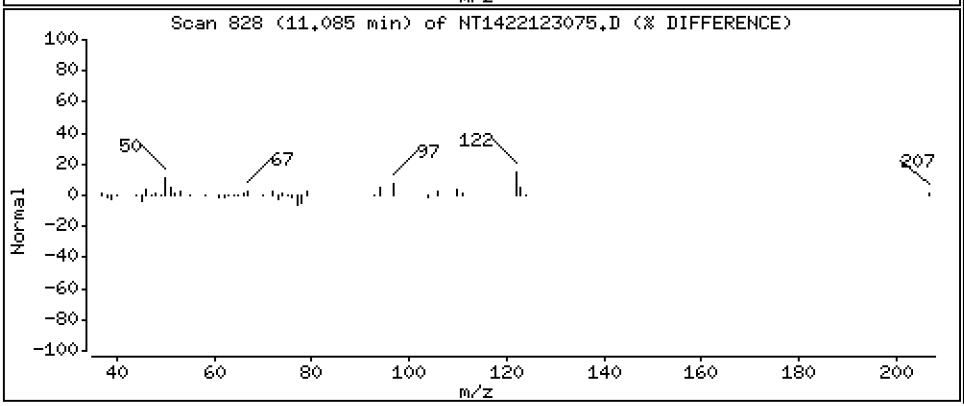












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Date : 01-JAN-2023 04:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-01

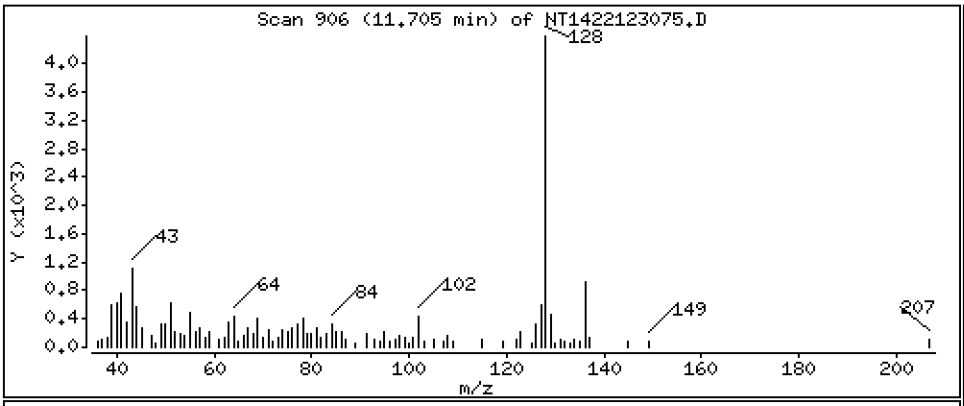
Operator: VTS

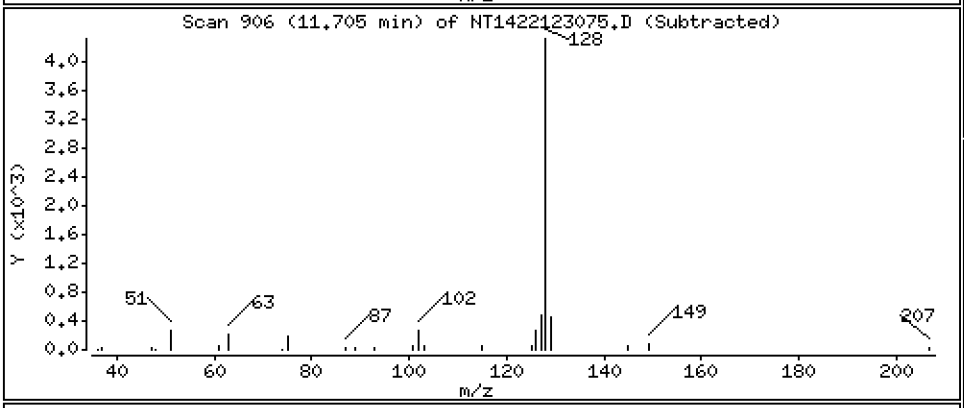
Column phase: ZB-5msi

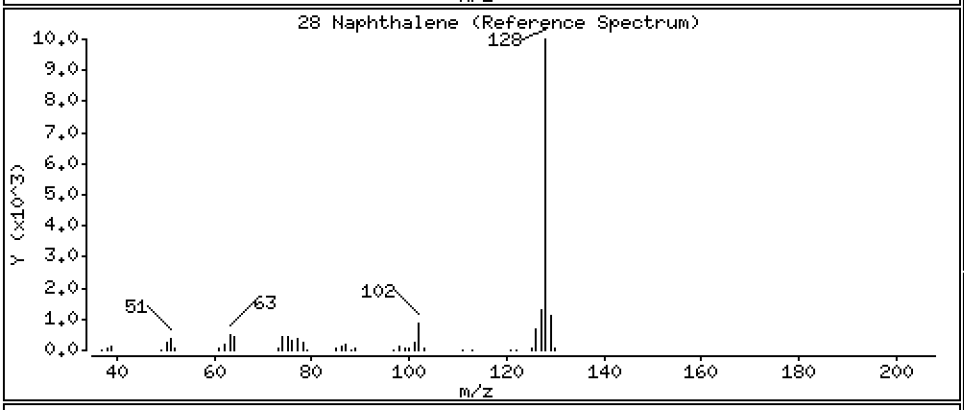
Column diameter: 0.25

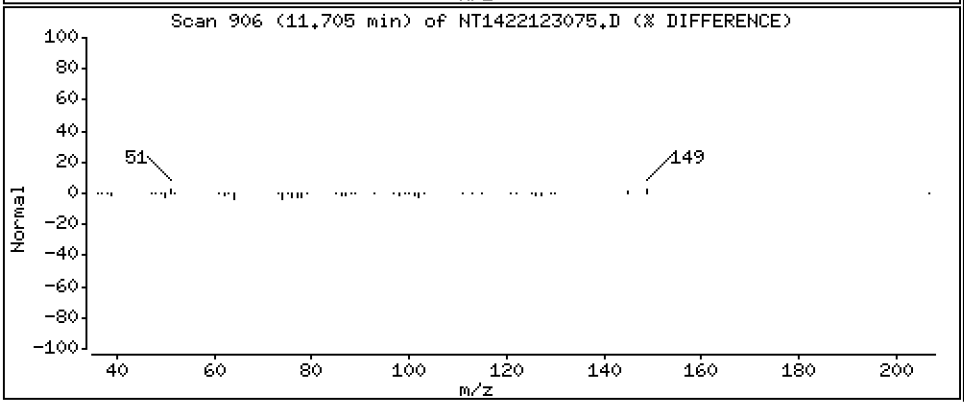
28 Naphthalene

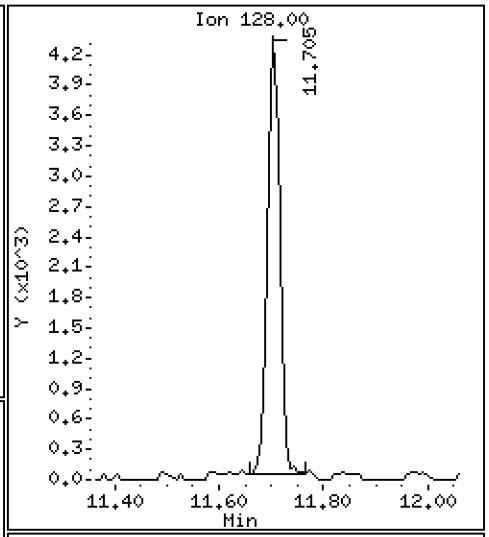
Concentration: 0.08549 ug/mL

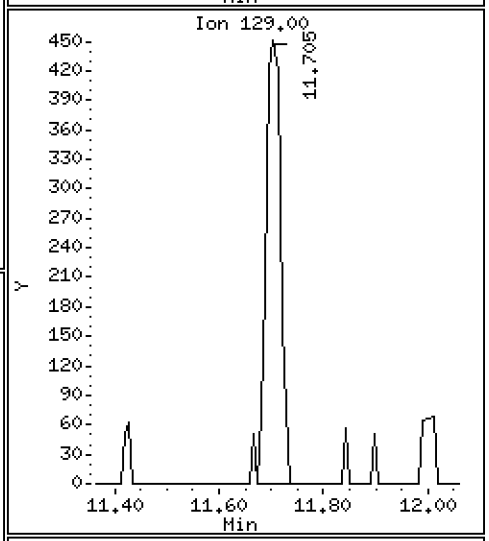


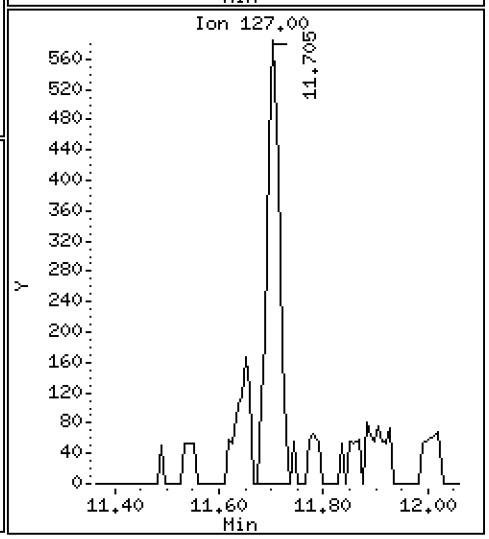












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Date : 01-JAN-2023 04:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-01

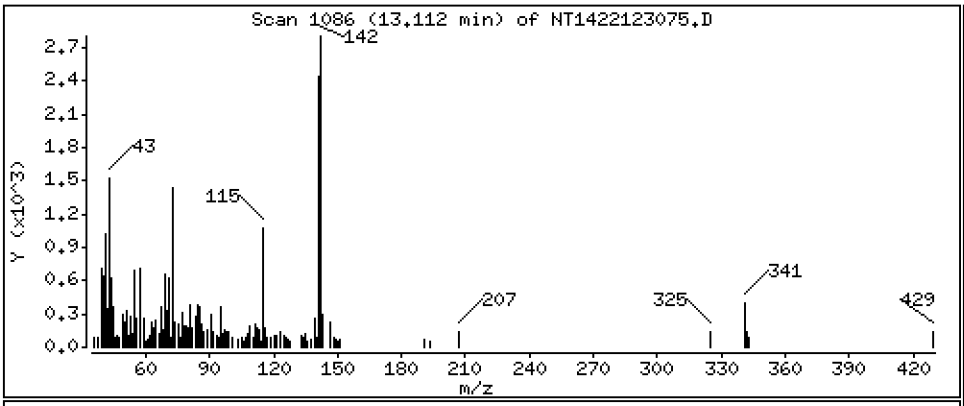
Operator: VTS

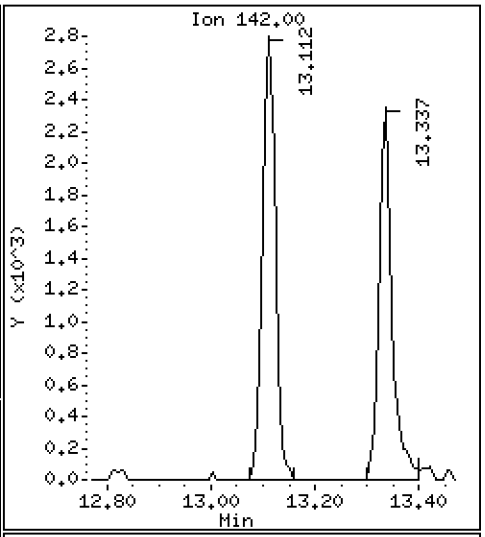
Column phase: ZB-5msi

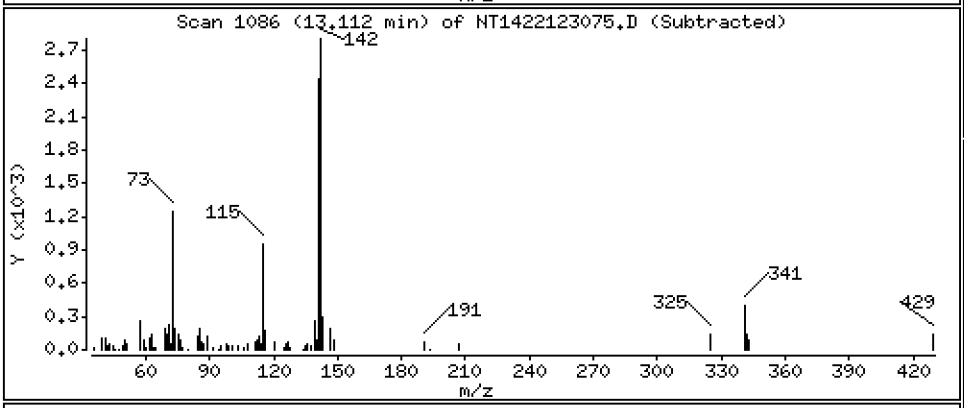
Column diameter: 0.25

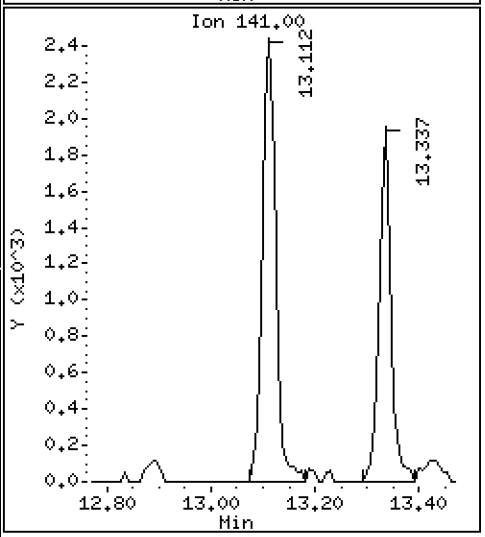
32 2-Methylnaphthalene

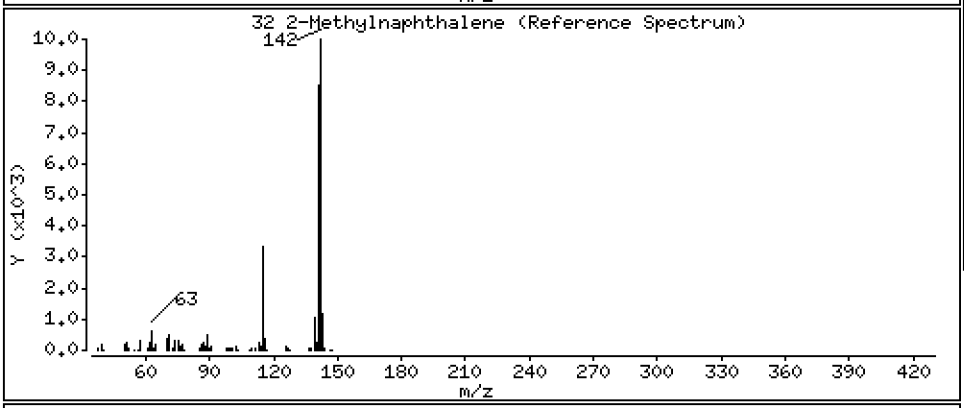
Concentration: 0.08028 ug/mL

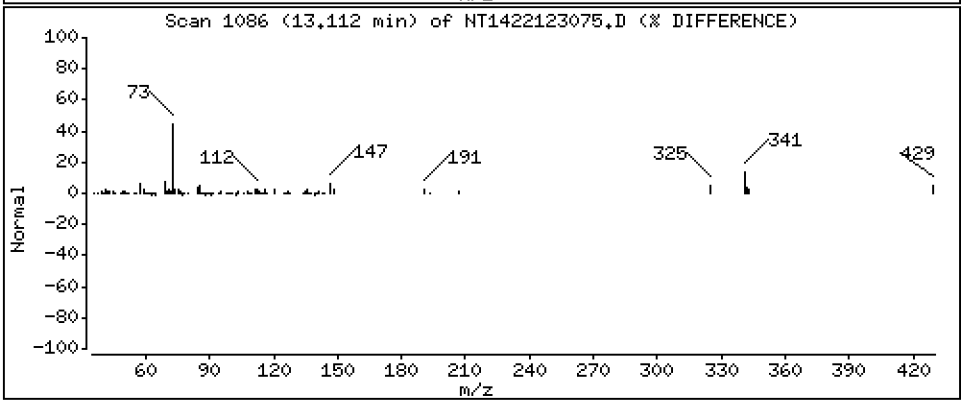












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Date : 01-JAN-2023 04:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-01

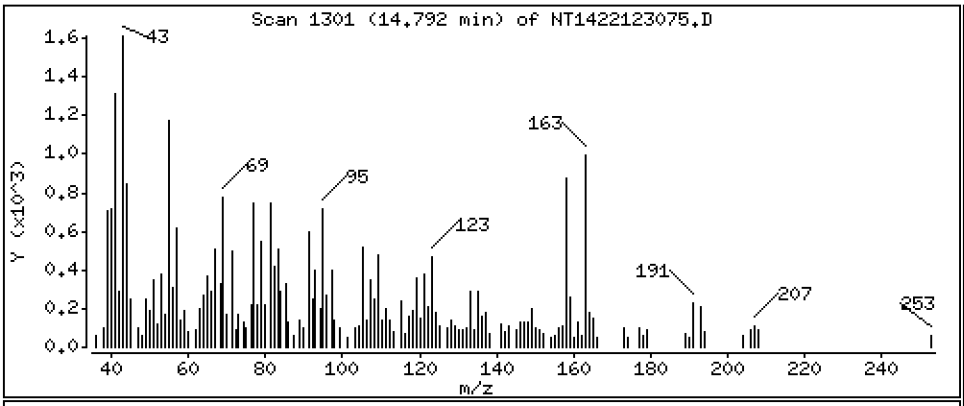
Operator: VTS

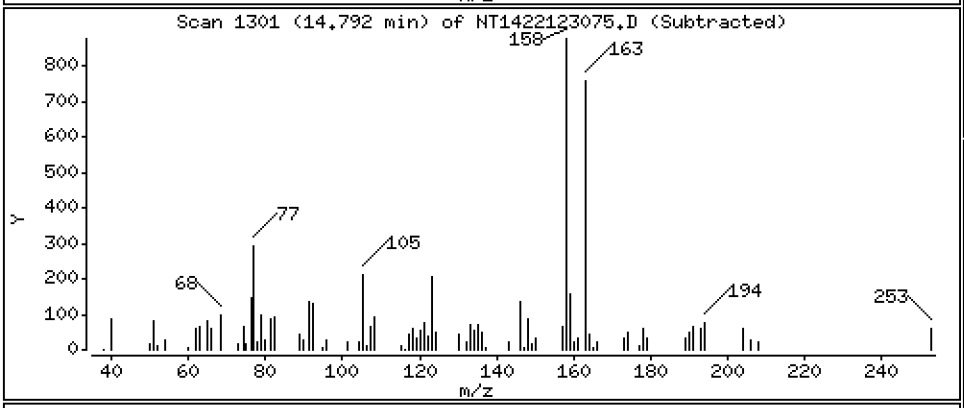
Column phase: ZB-5msi

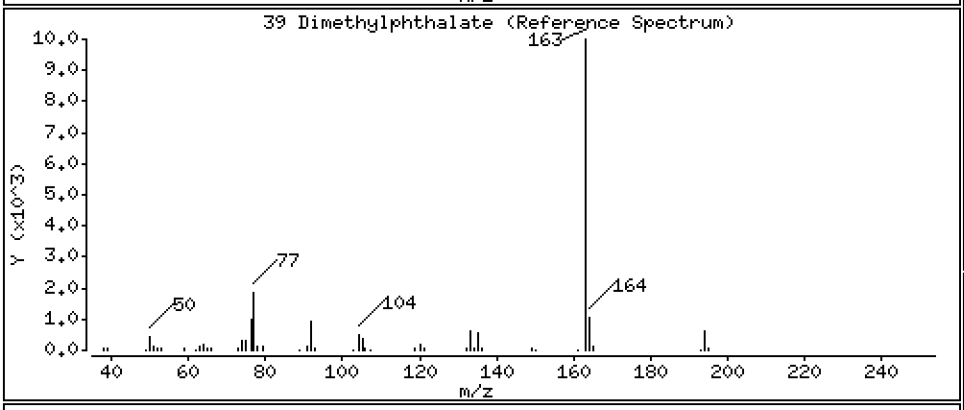
Column diameter: 0.25

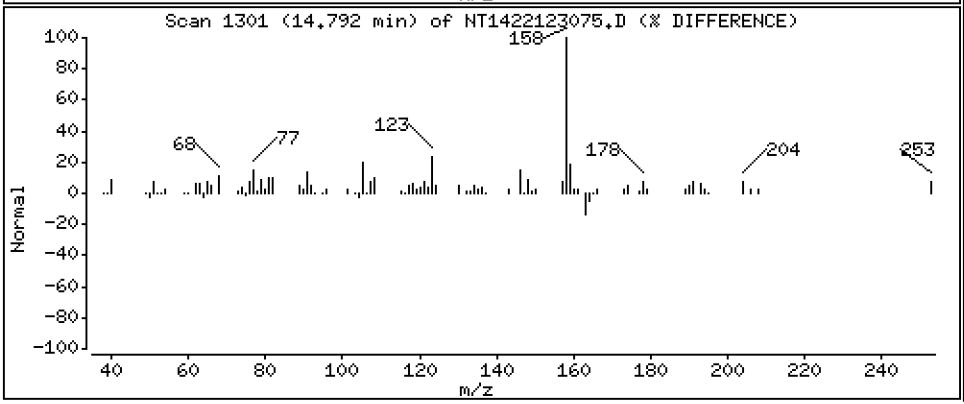
39 Dimethylphthalate

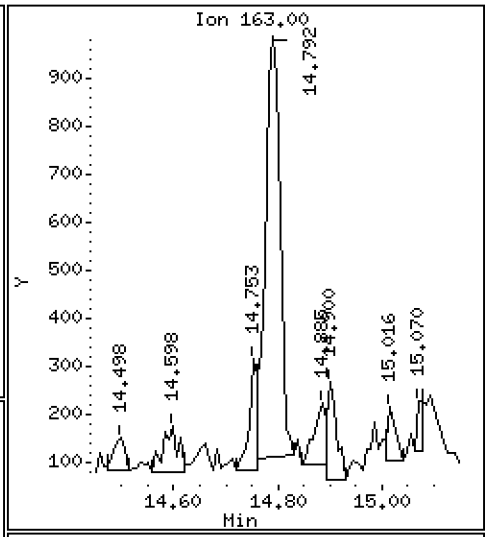
Concentration: 0.03855 ug/mL

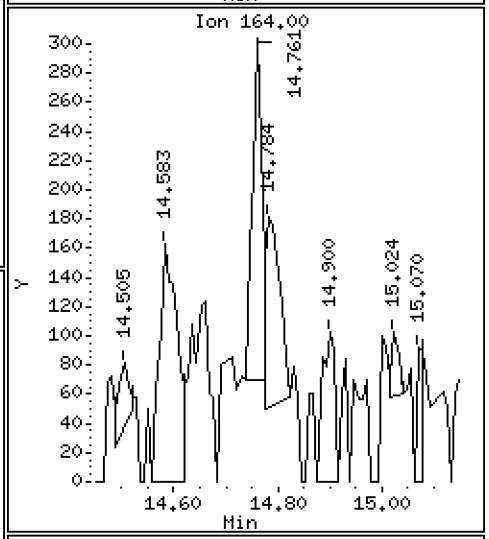


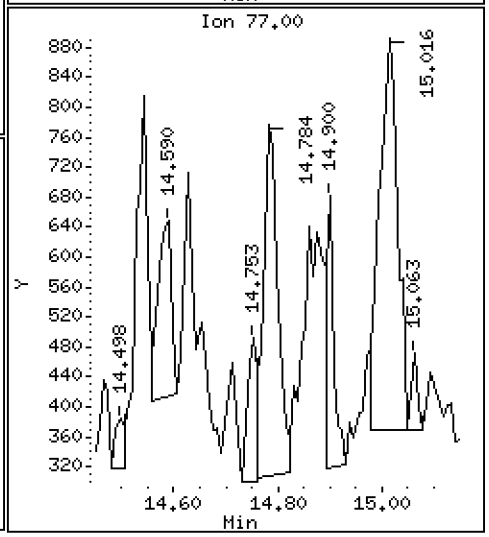












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Date : 01-JAN-2023 04:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-01

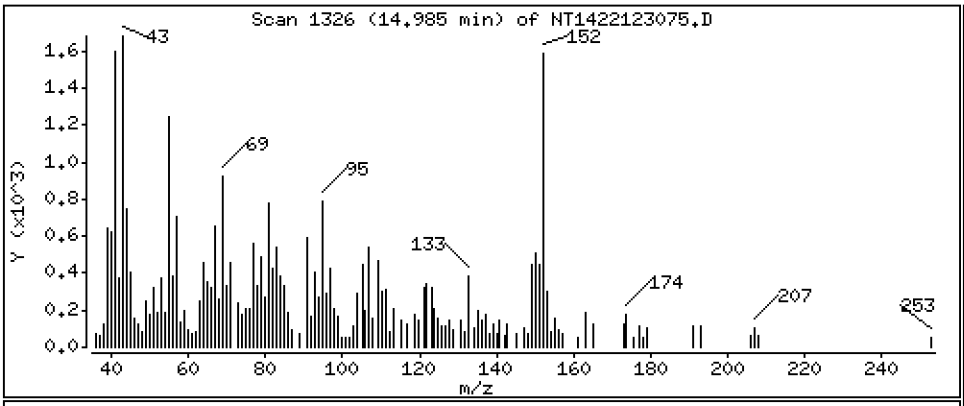
Operator: VTS

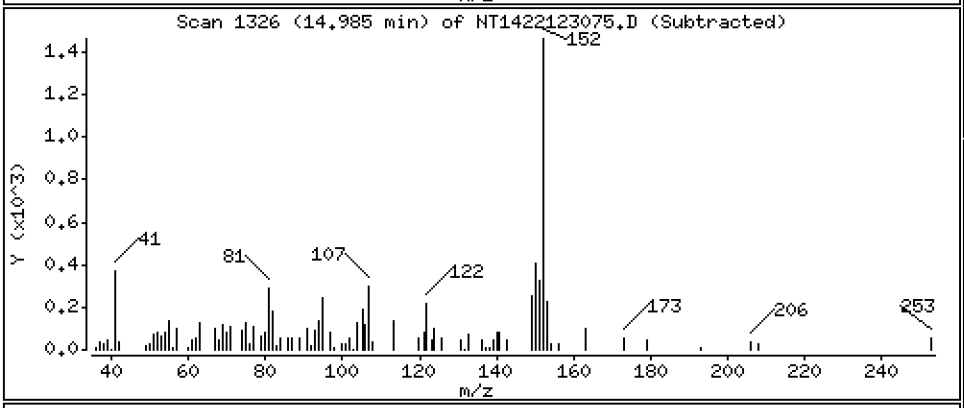
Column phase: ZB-5msi

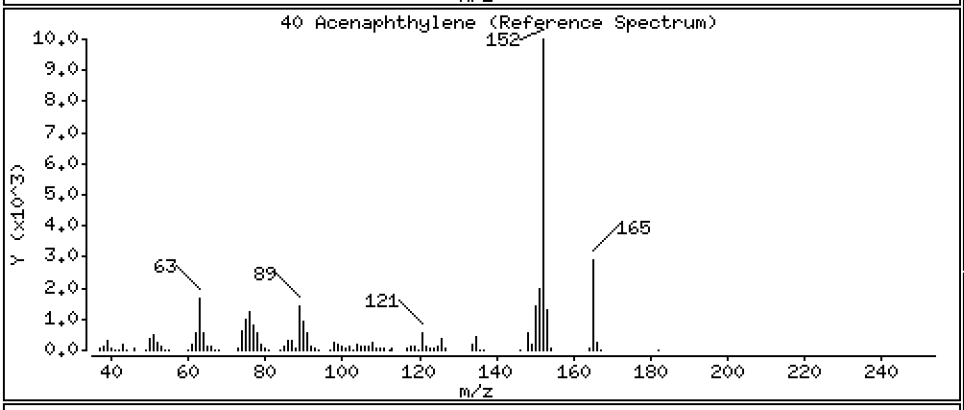
Column diameter: 0.25

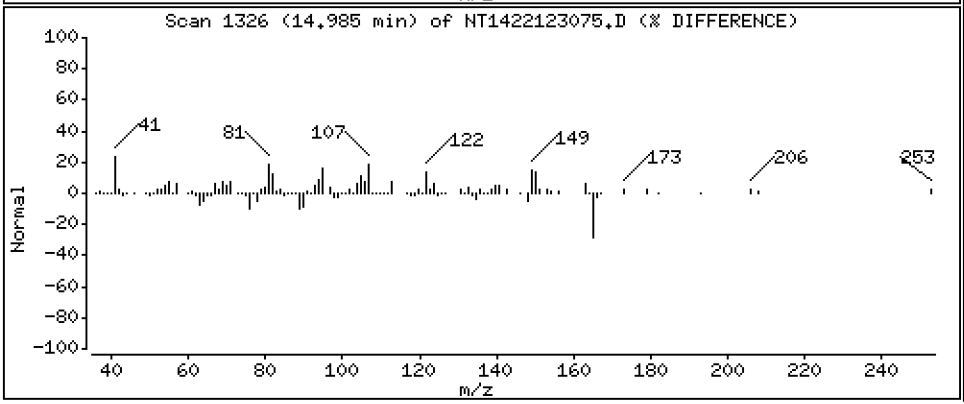
40 Acenaphthylene

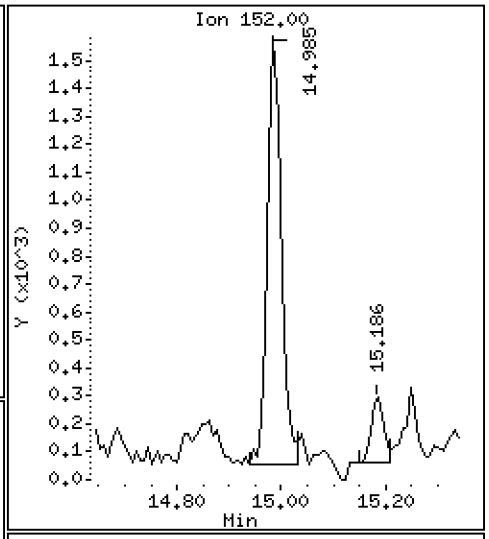
Concentration: 0.03926 ug/mL

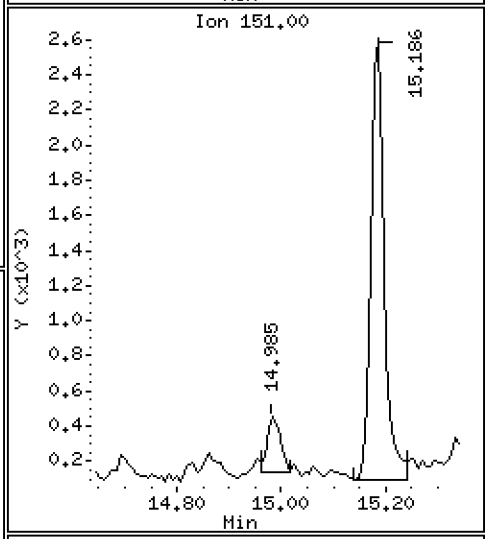


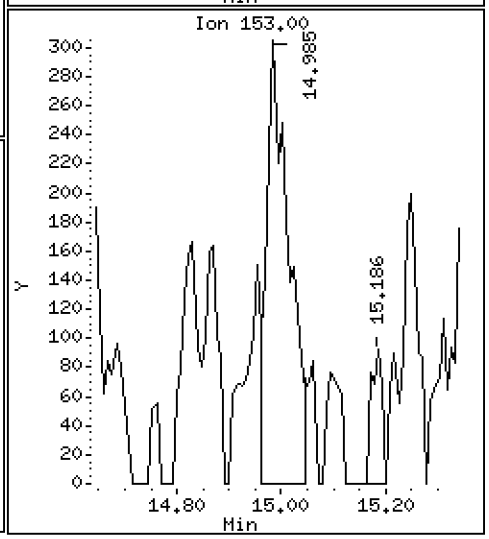












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123075.D

Date : 01-JAN-2023 04:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-01

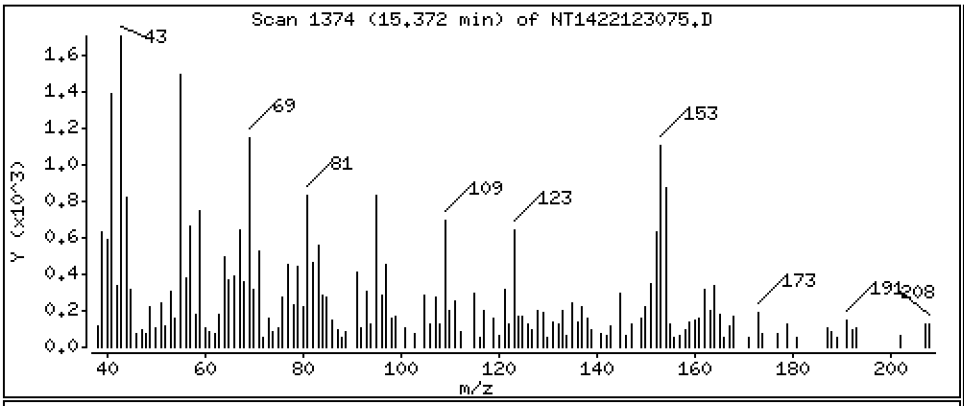
Operator: VTS

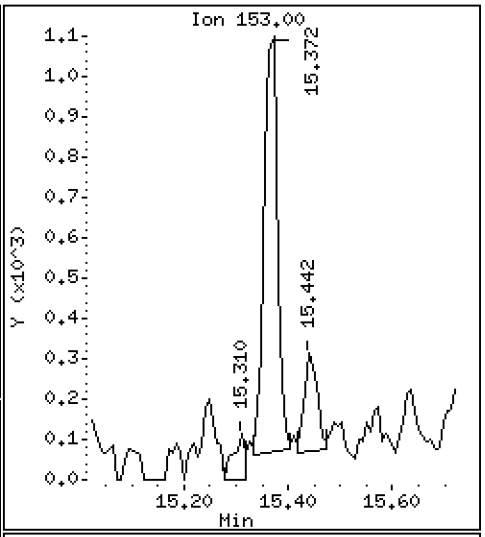
Column phase: ZB-5msi

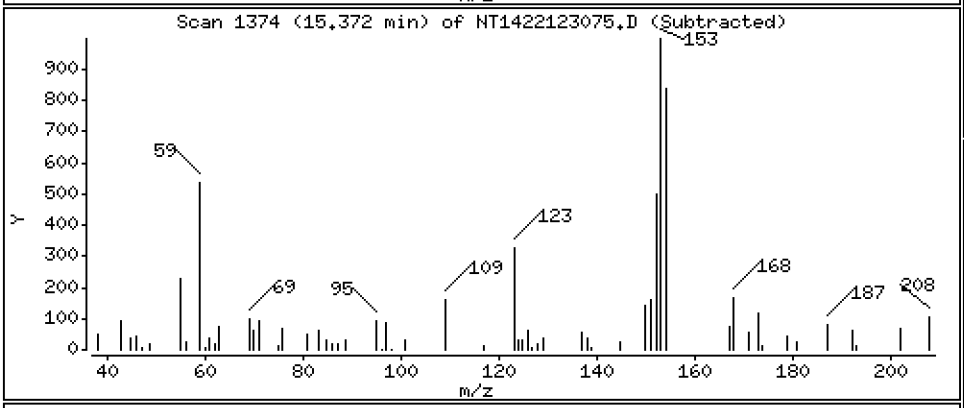
Column diameter: 0.25

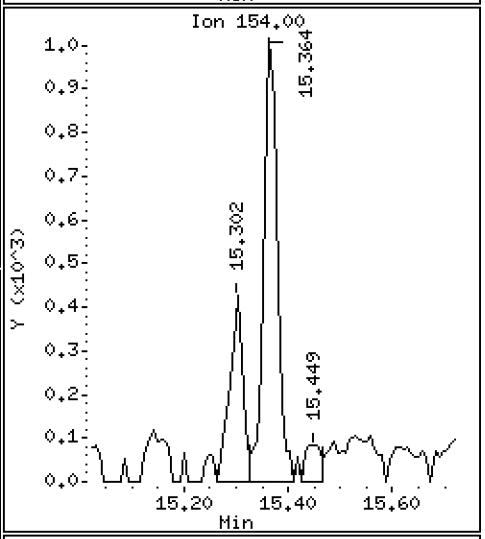
44 Acenaphthene

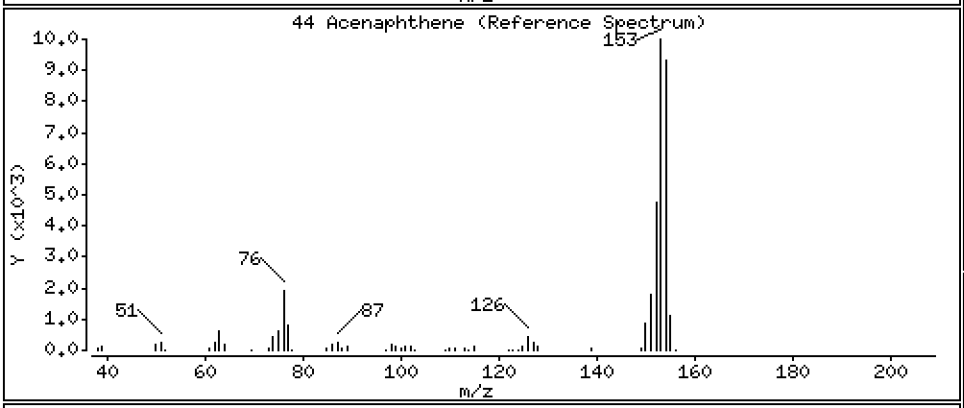
Concentration: 0.04122 ug/mL

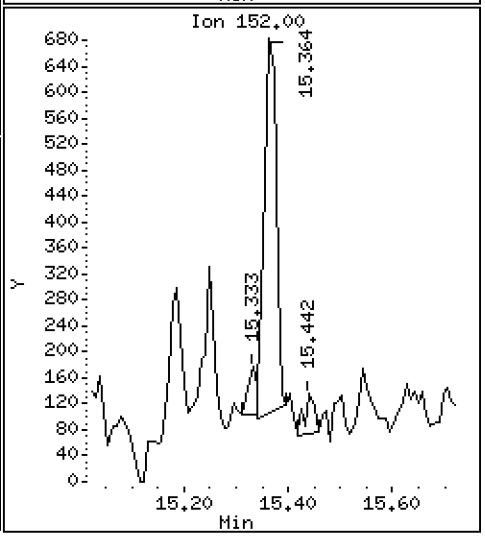


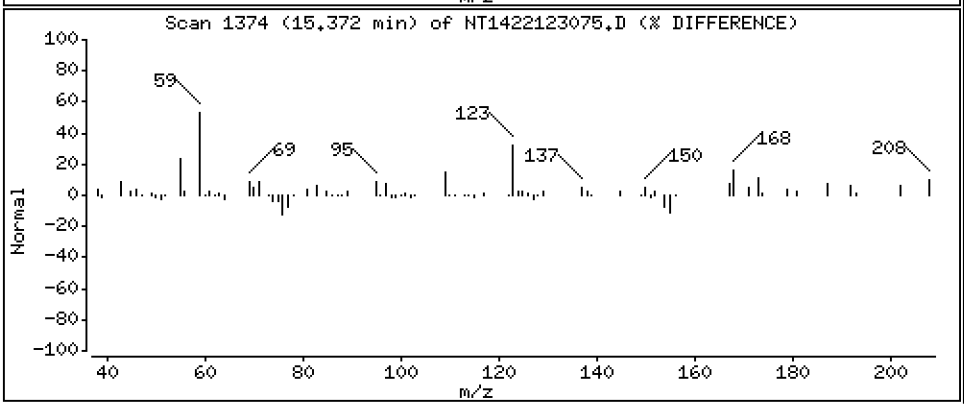












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Date : 01-JAN-2023 04:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-01

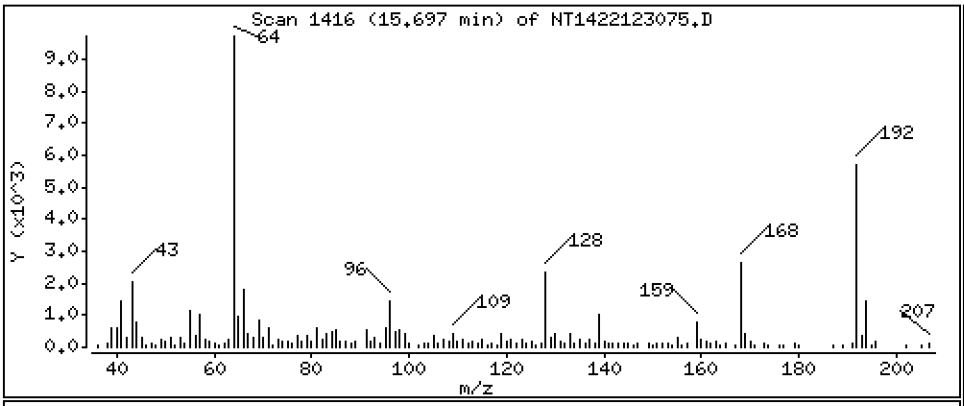
Operator: VTS

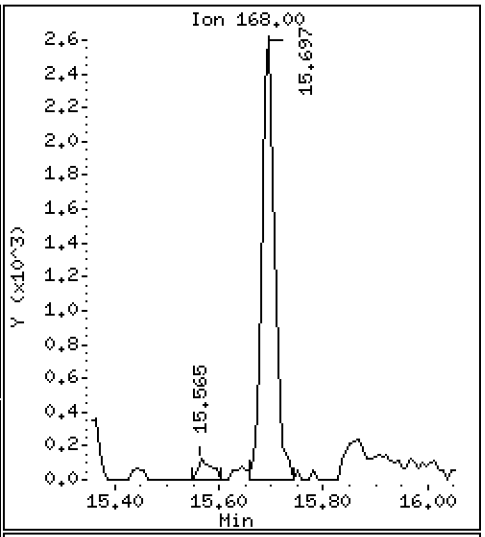
Column phase: ZB-5msi

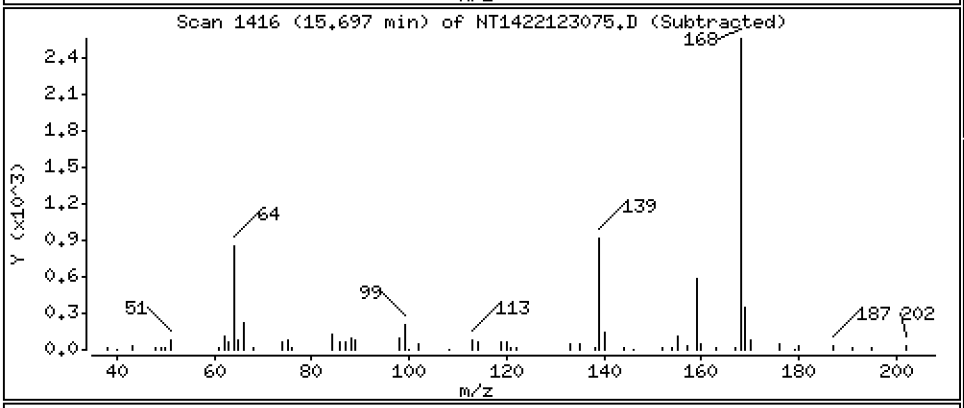
Column diameter: 0.25

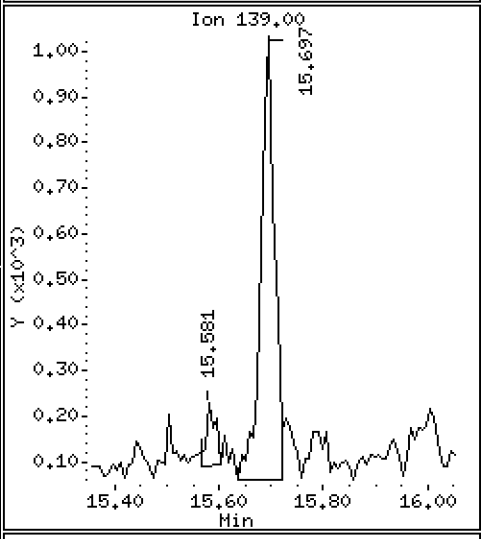
46 Dibenzofuran

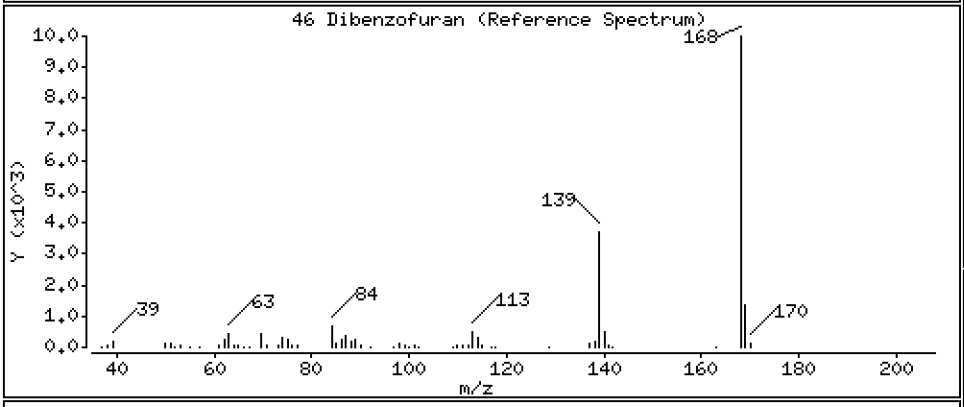
Concentration: 0.06919 ug/mL

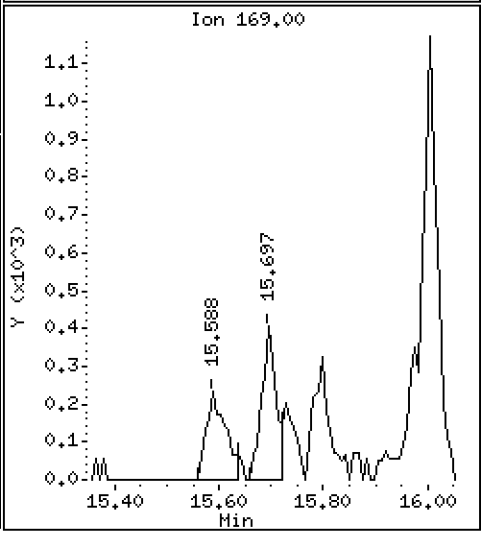


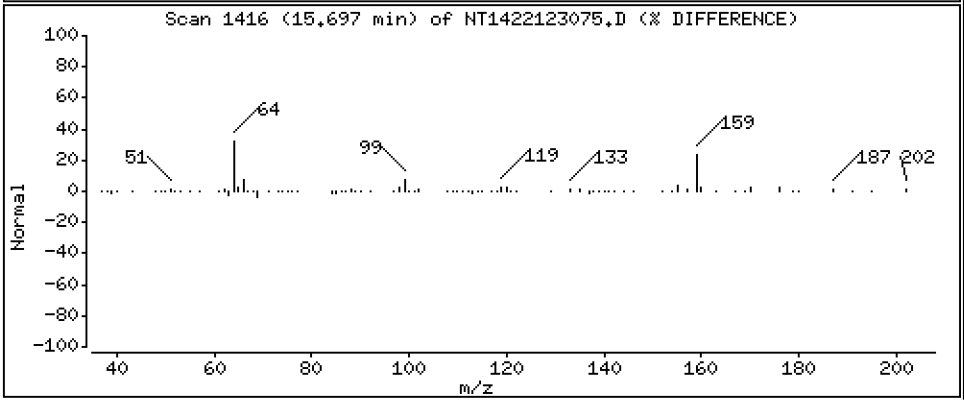












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Date : 01-JAN-2023 04:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-01

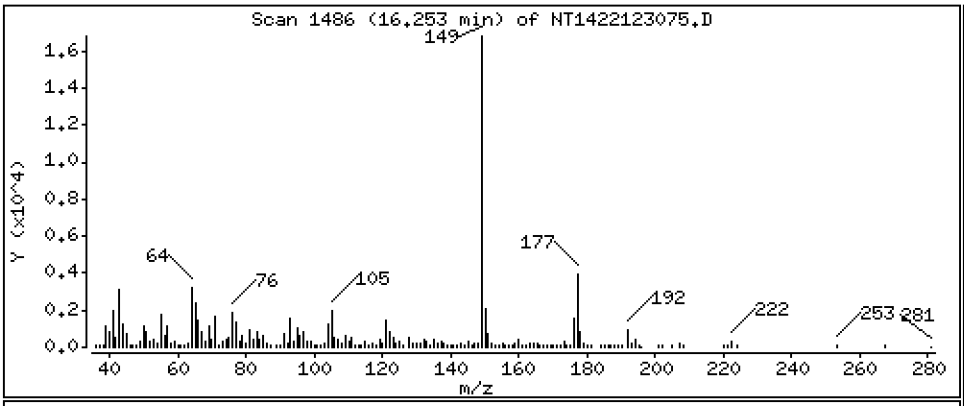
Operator: VTS

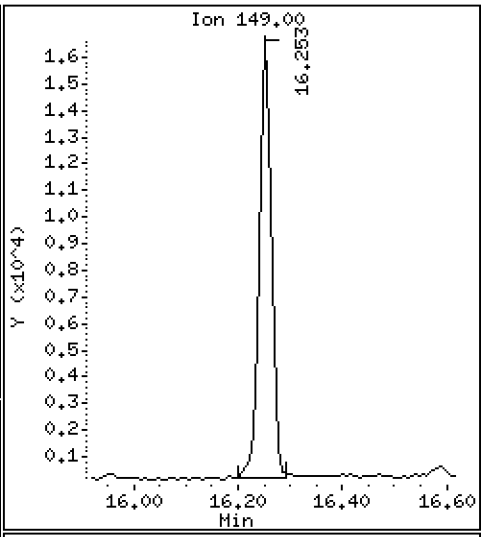
Column phase: ZB-5msi

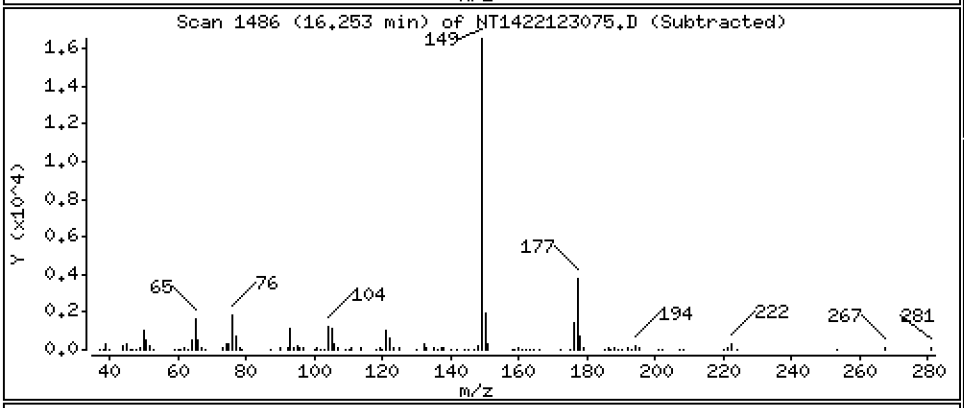
Column diameter: 0.25

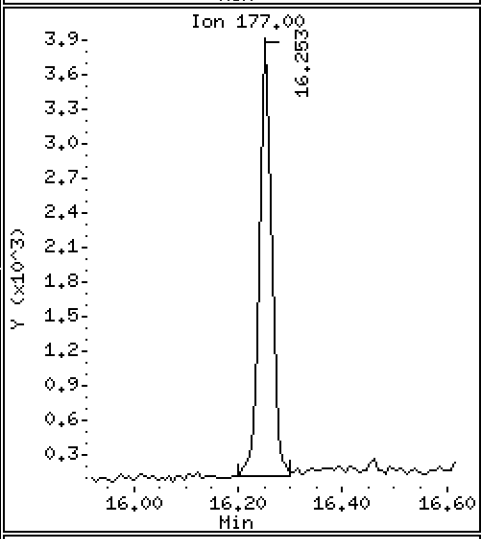
50 Diethylphthalate

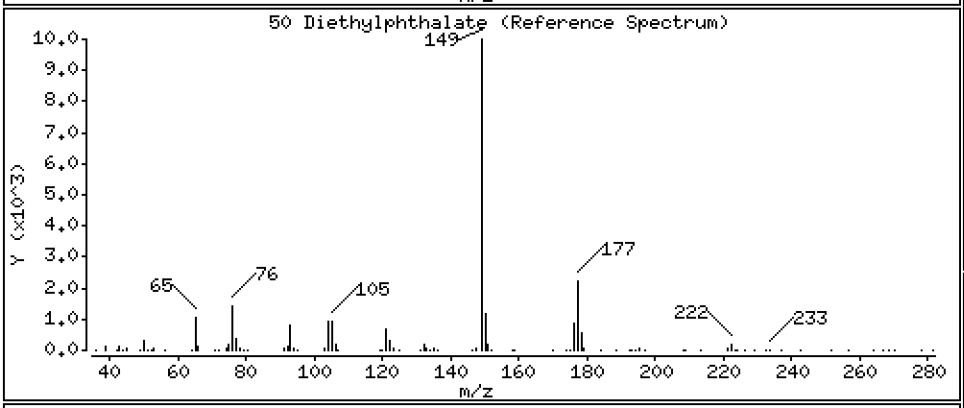
Concentration: 0.5112 ug/mL

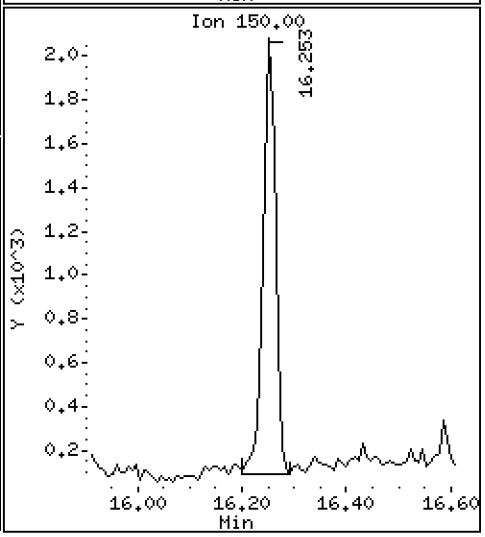


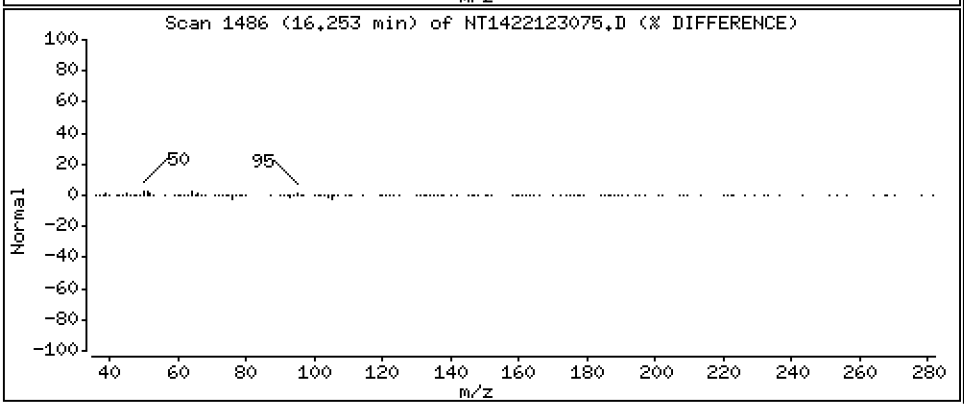












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Date : 01-JAN-2023 04:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-01

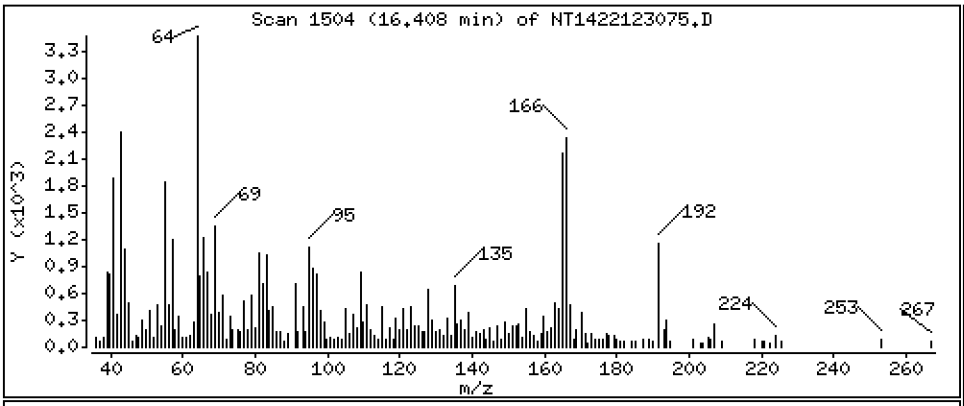
Operator: VTS

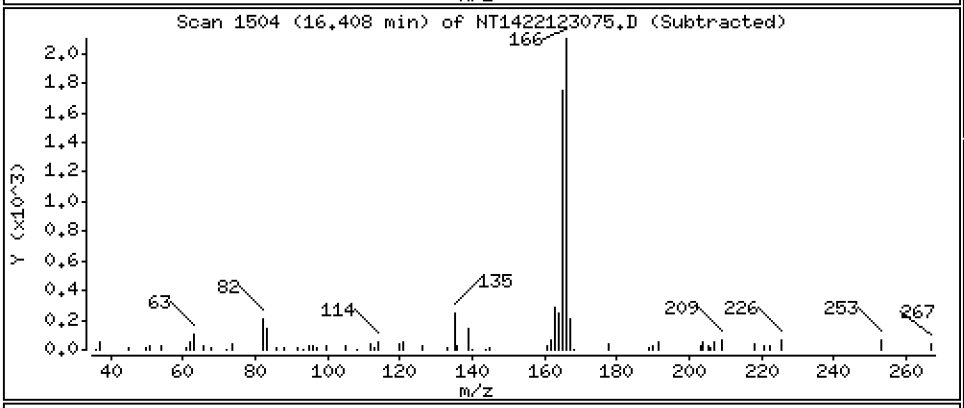
Column phase: ZB-5msi

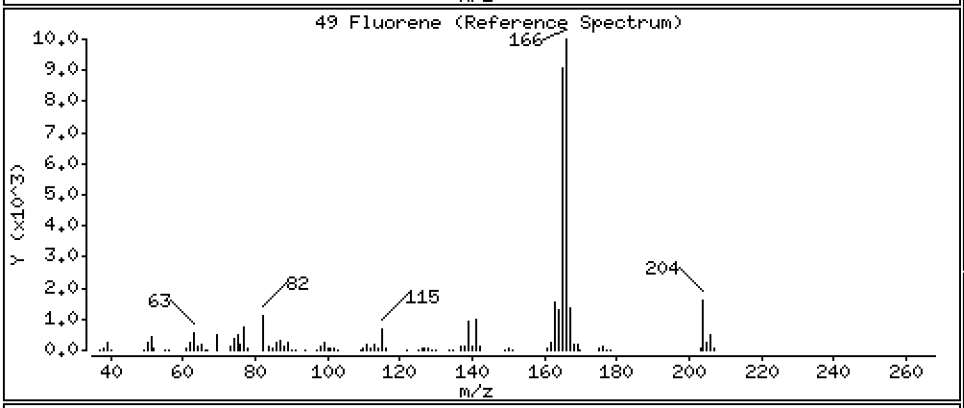
Column diameter: 0.25

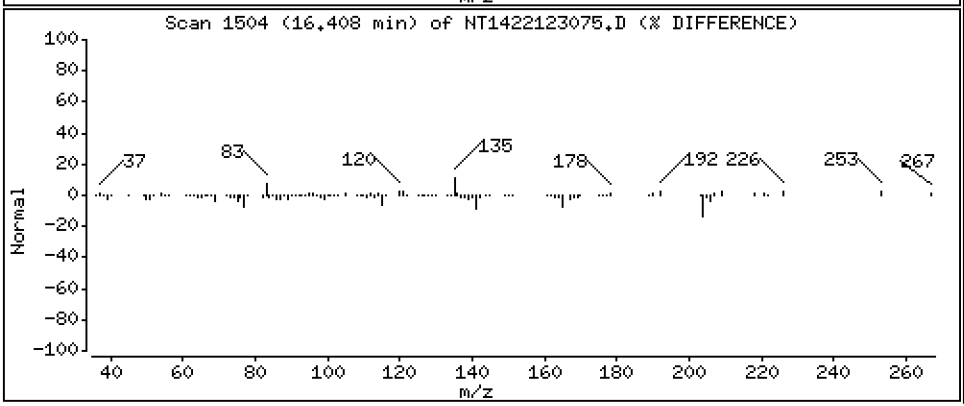
49 Fluorene

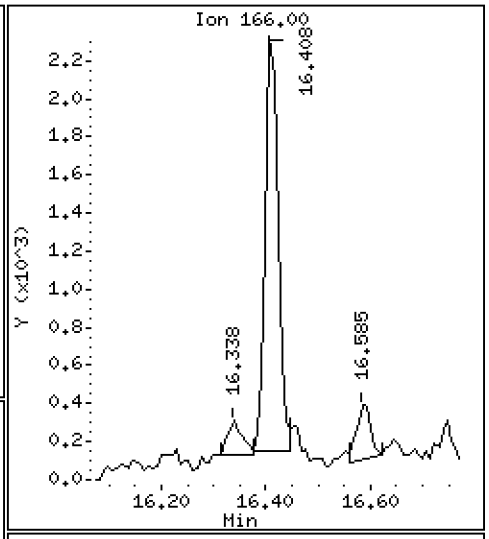
Concentration: 0.05209 ug/mL

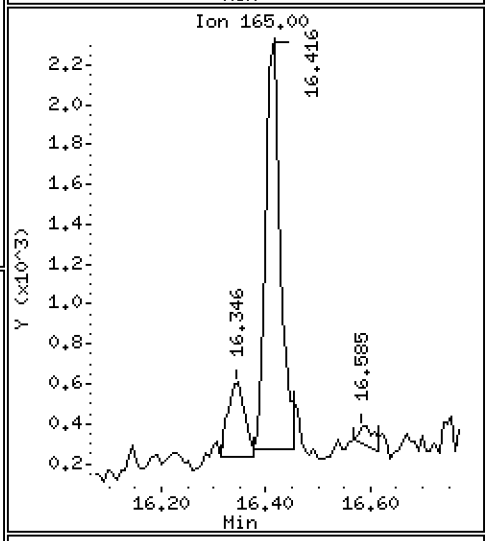


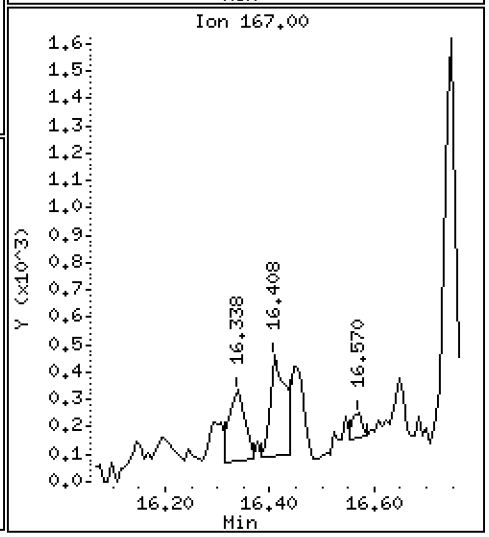












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Date : 01-JAN-2023 04:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-01

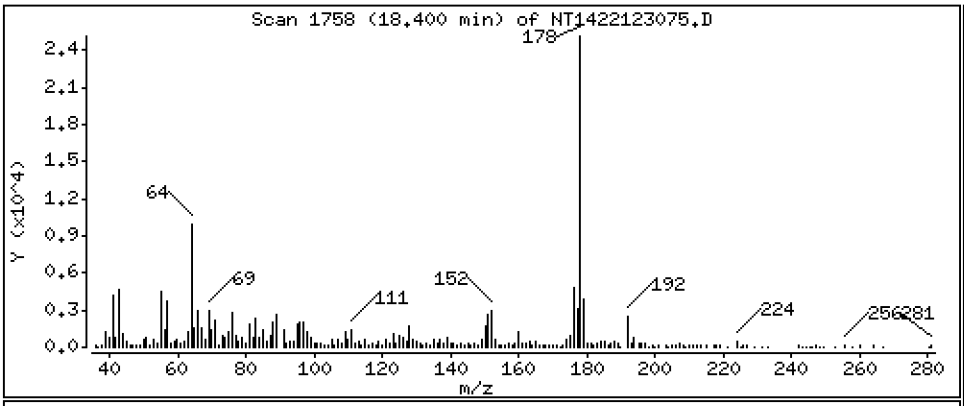
Operator: VTS

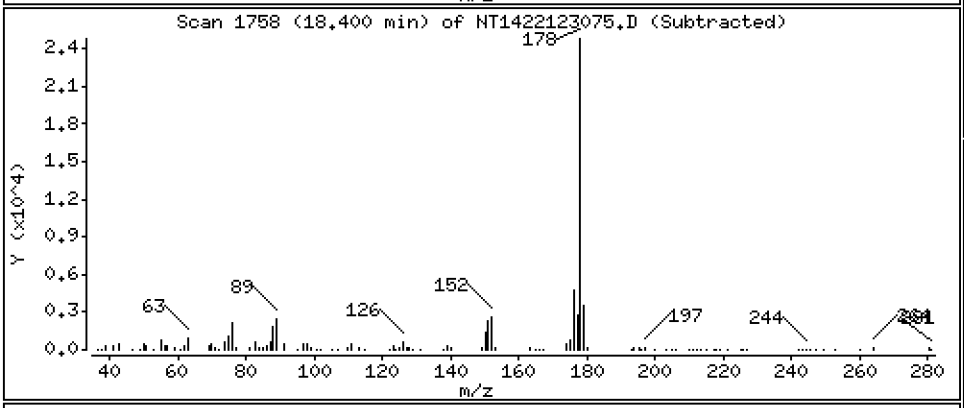
Column phase: ZB-5msi

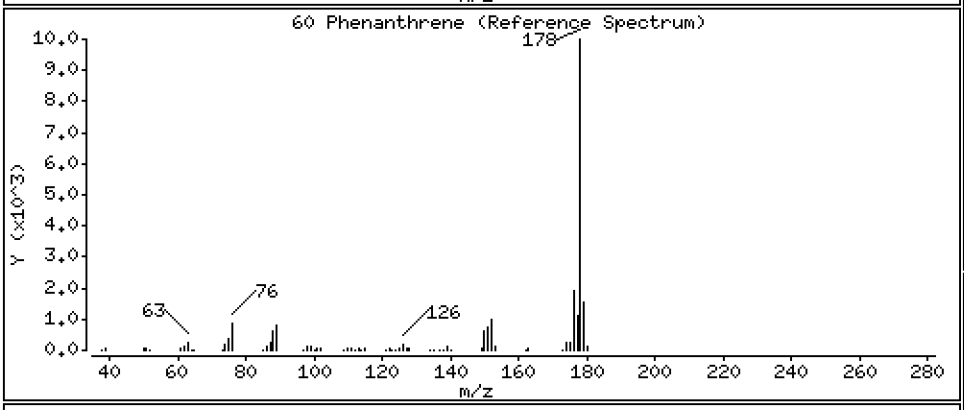
Column diameter: 0.25

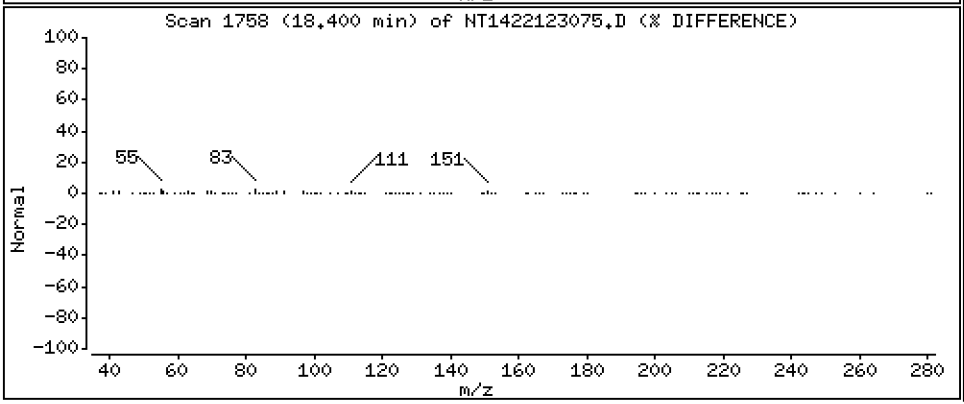
60 Phenanthrene

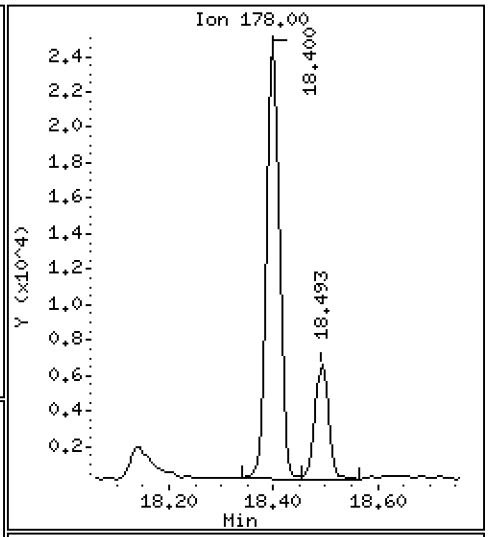
Concentration: 0.6084 ug/mL

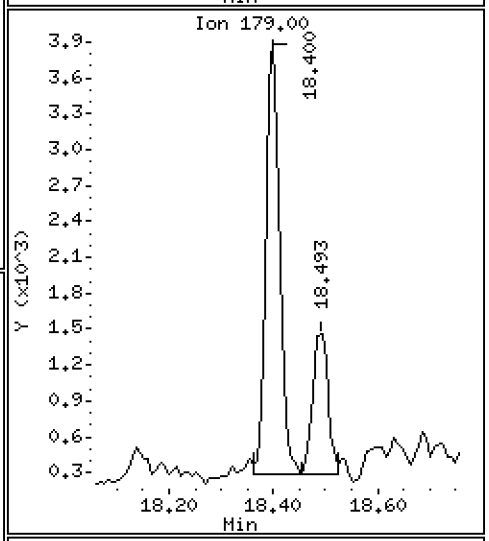


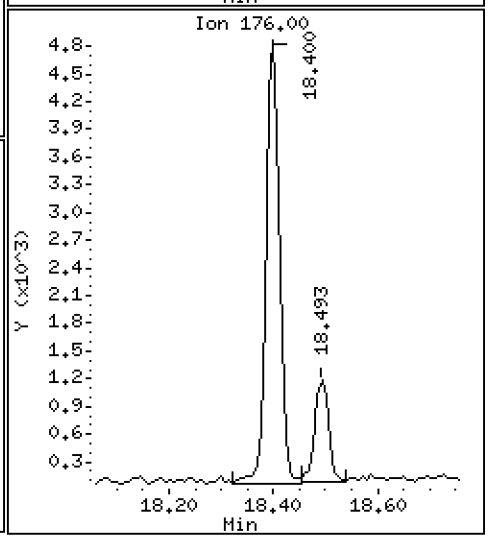












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Date : 01-JAN-2023 04:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-01

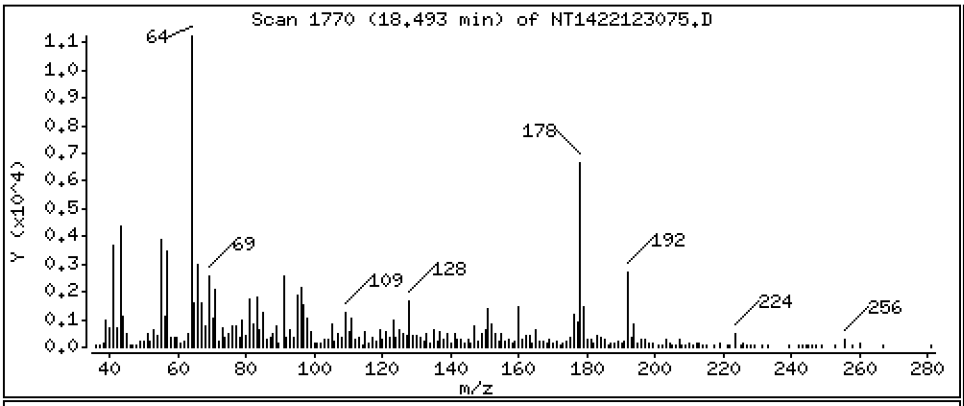
Operator: VTS

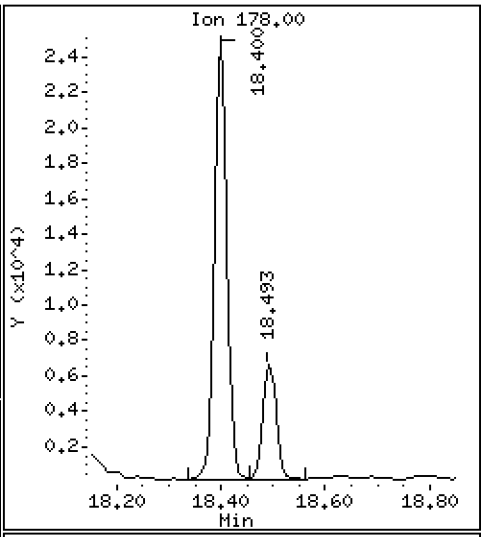
Column phase: ZB-5msi

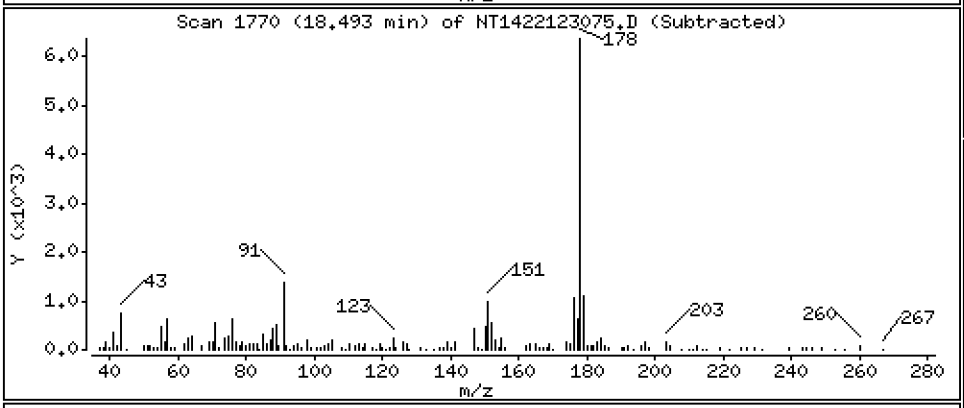
Column diameter: 0.25

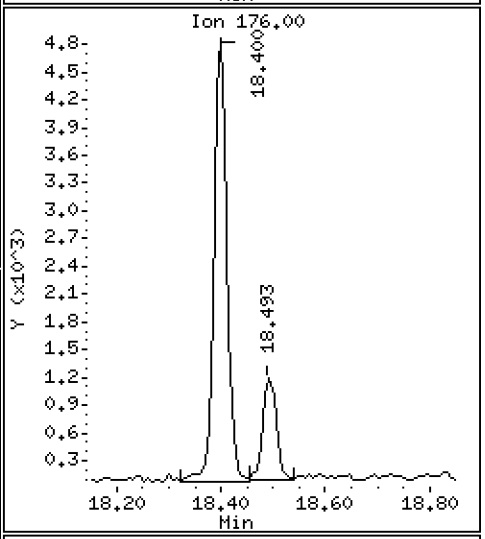
61 Anthracene

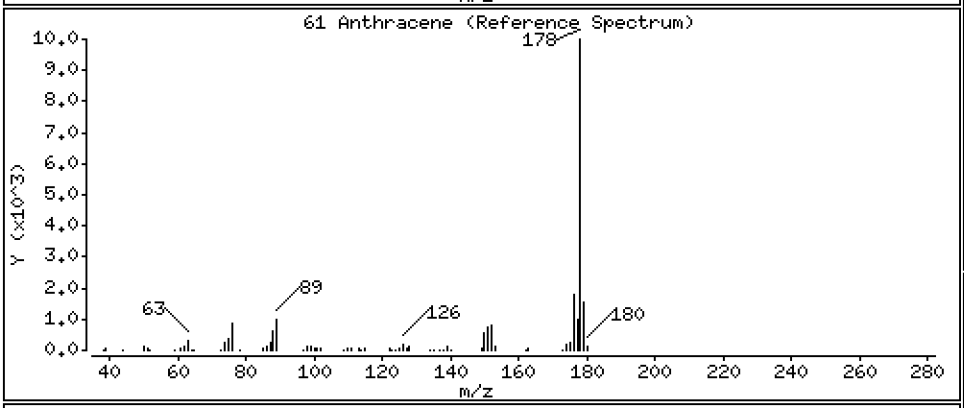
Concentration: 0.1695 ug/mL

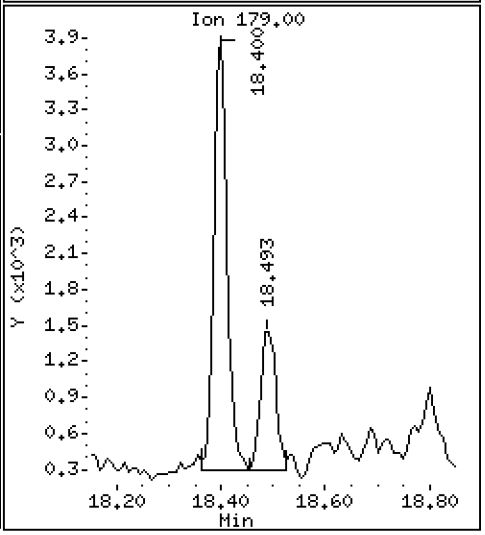


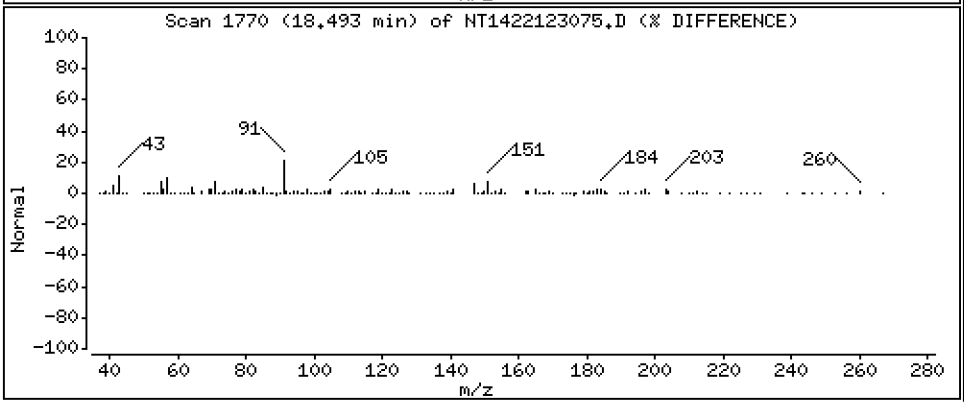












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Date : 01-JAN-2023 04:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-01

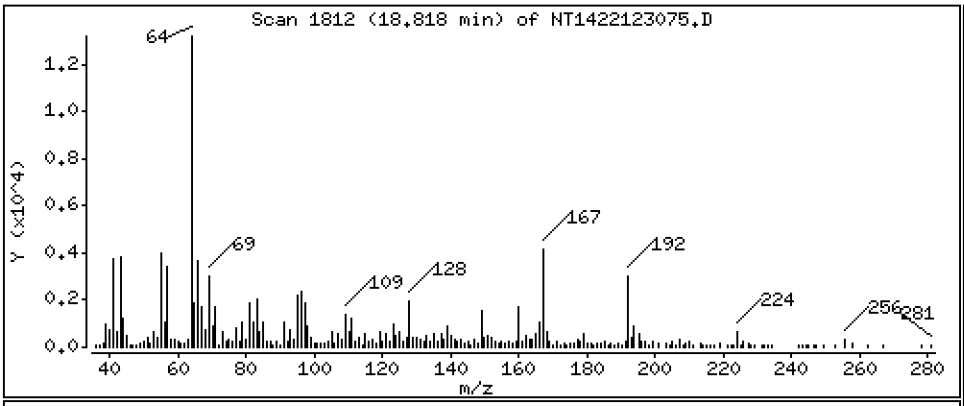
Operator: VTS

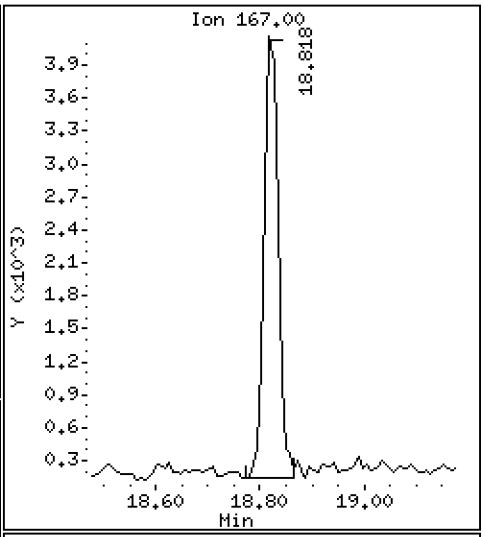
Column phase: ZB-5msi

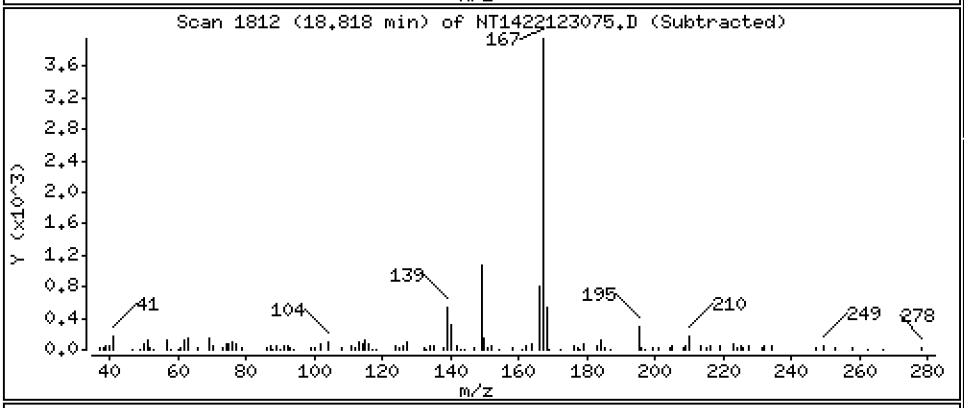
Column diameter: 0.25

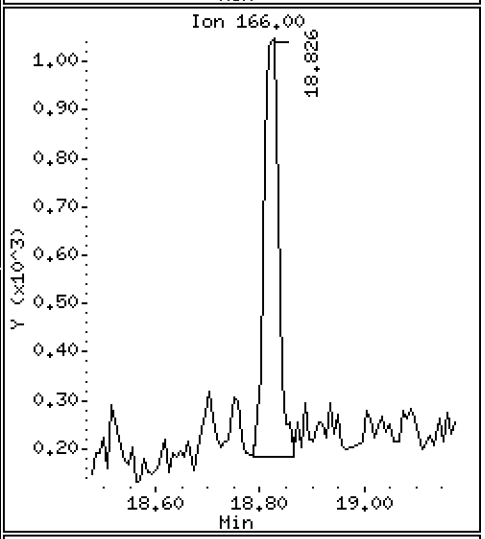
62 Carbazole

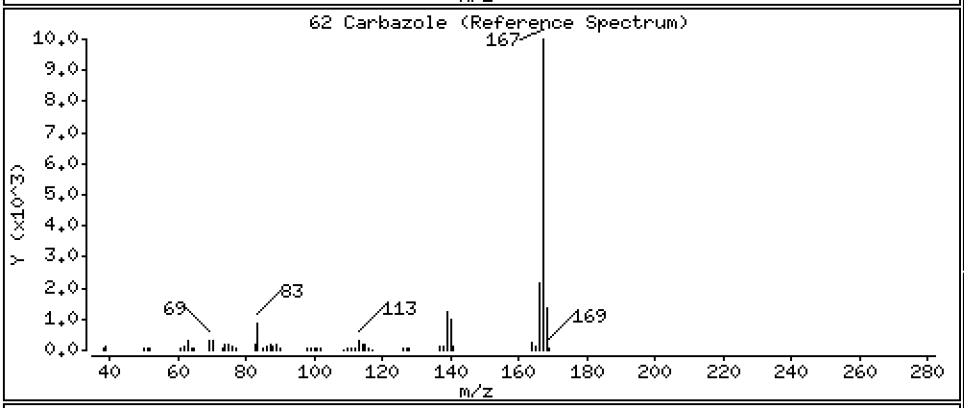
Concentration: 0.1138 ug/mL

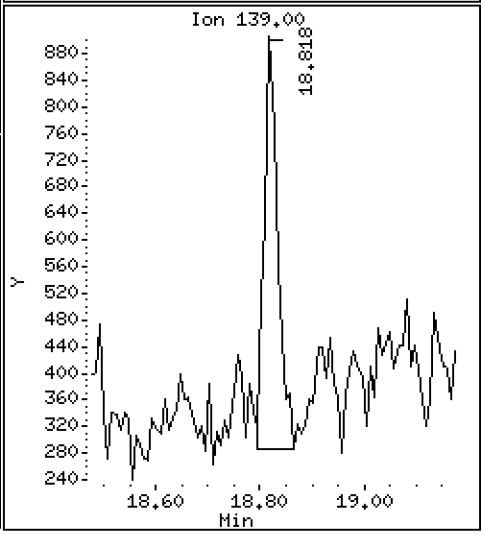


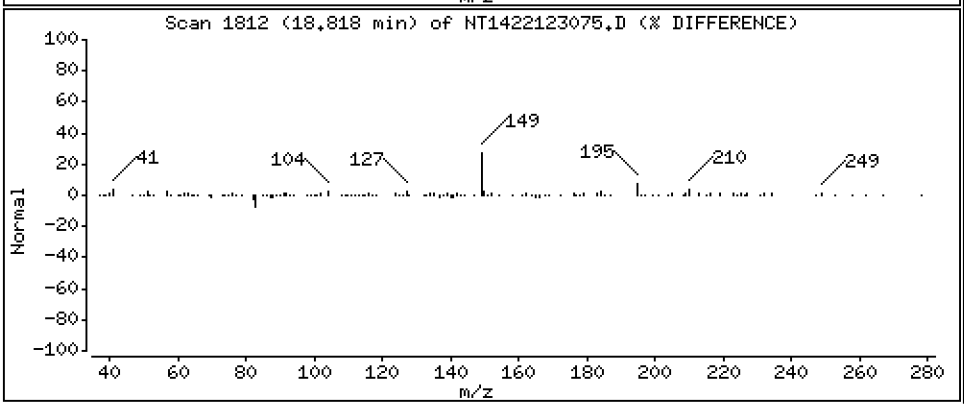












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123075.D

Date : 01-JAN-2023 04:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-01

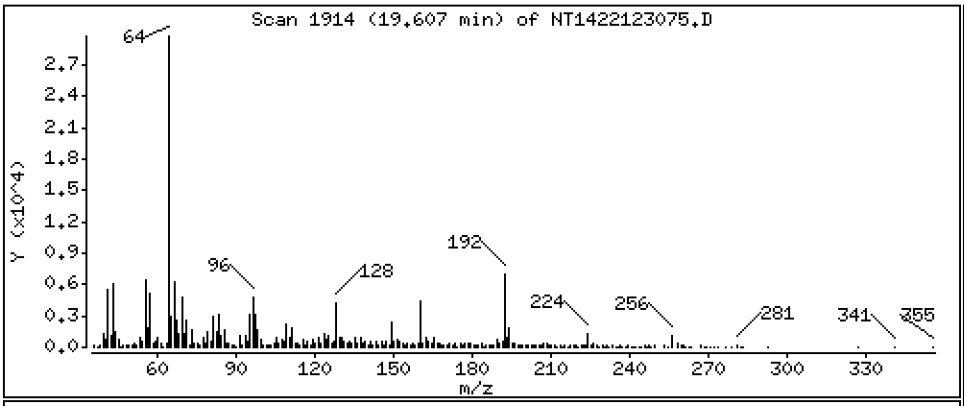
Operator: VTS

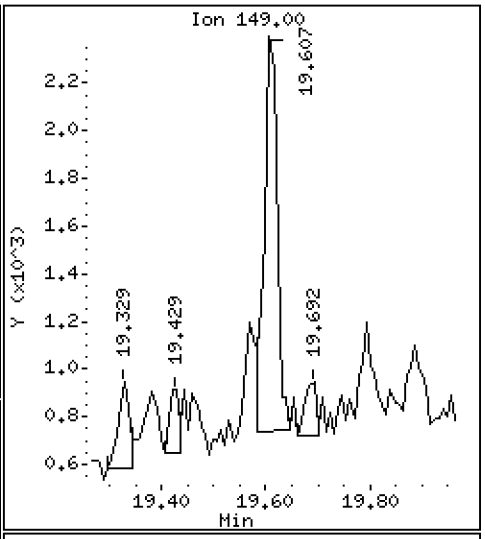
Column phase: ZB-5msi

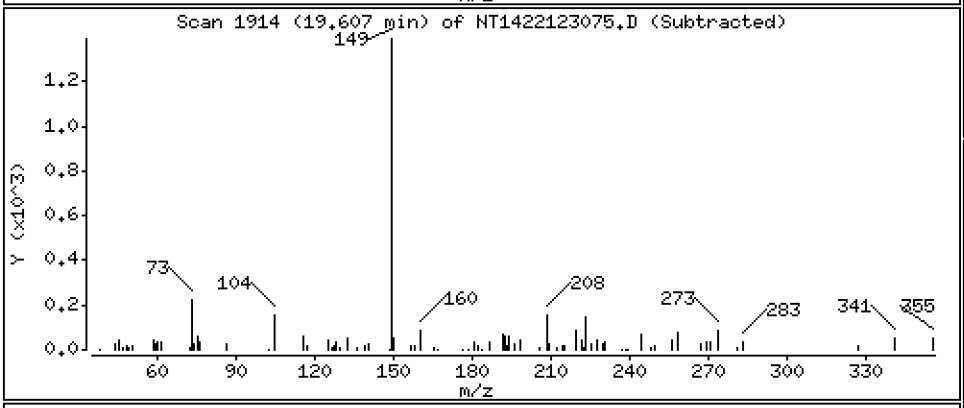
Column diameter: 0.25

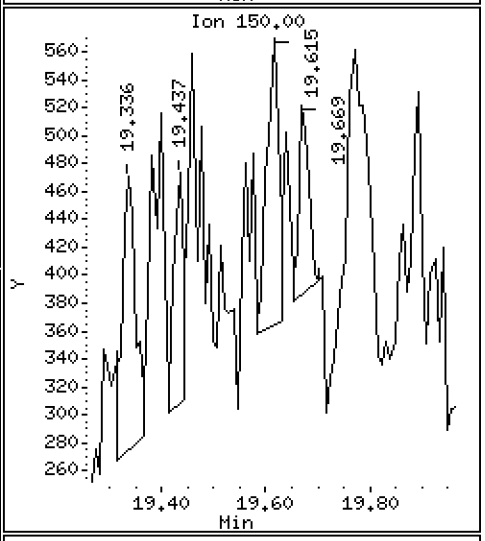
63 Di-n-butylphthalate

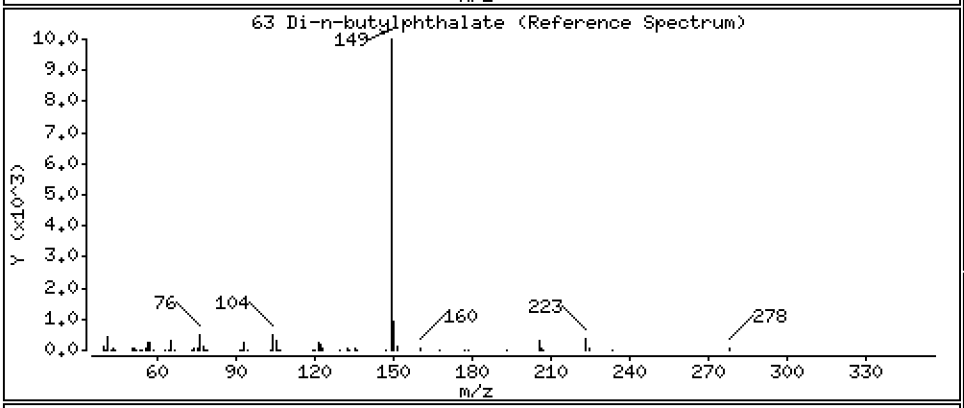
Concentration: 0.03820 ug/mL

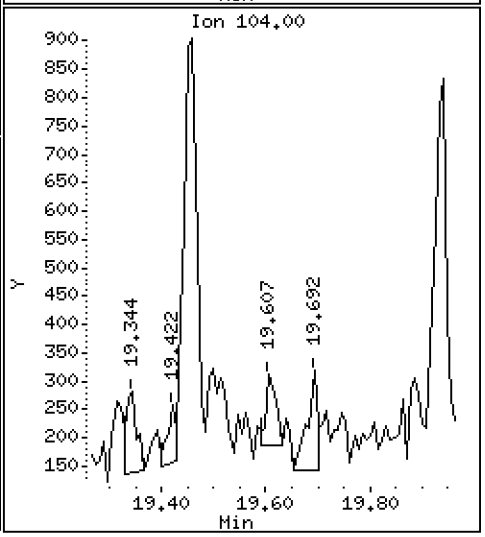


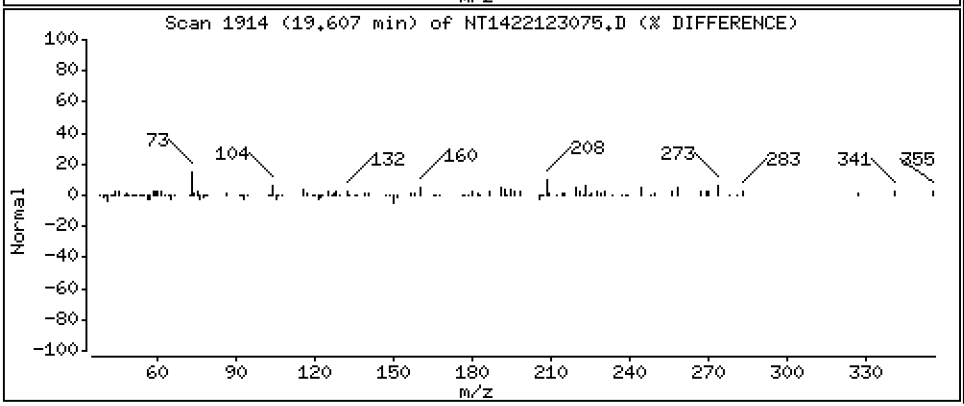












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Date : 01-JAN-2023 04:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-01

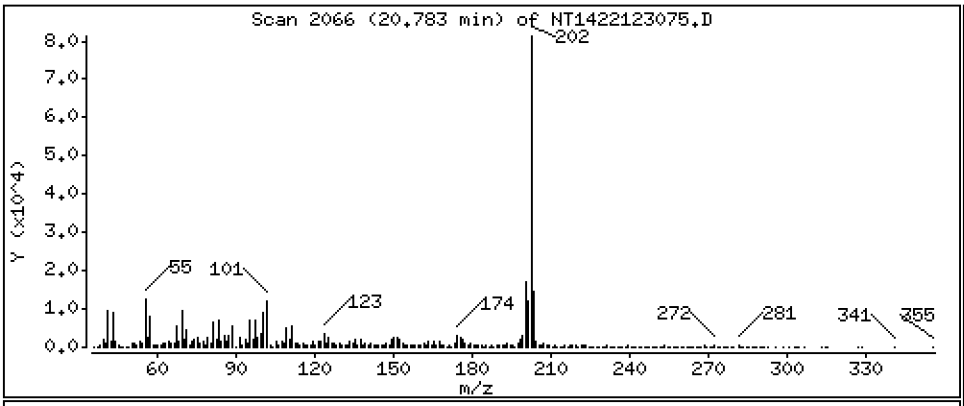
Operator: VTS

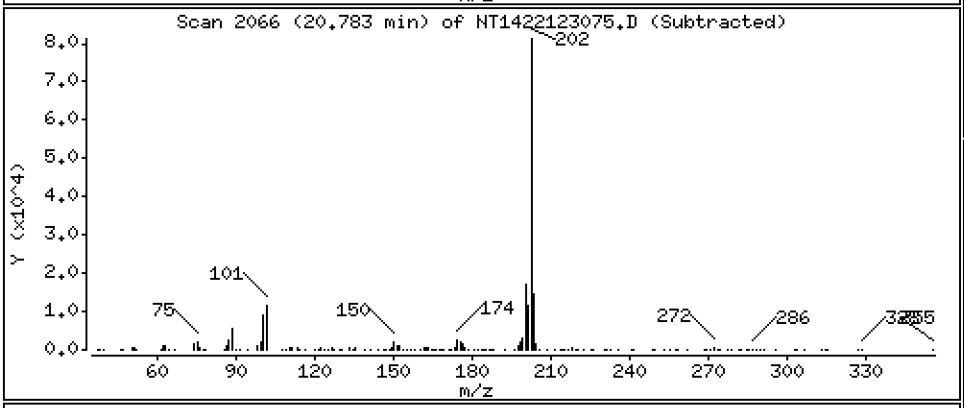
Column phase: ZB-5msi

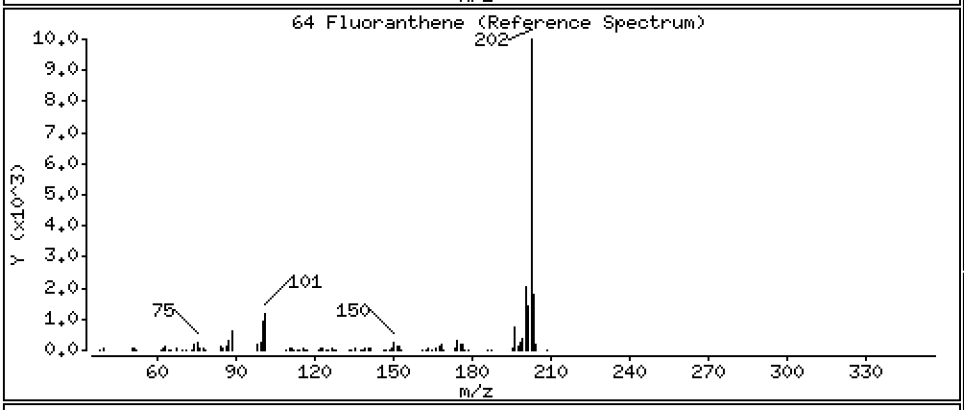
Column diameter: 0.25

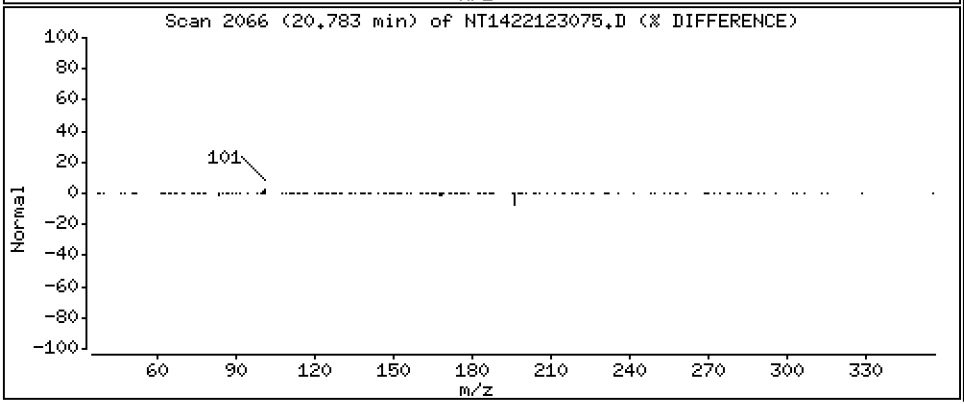
64 Fluoranthene

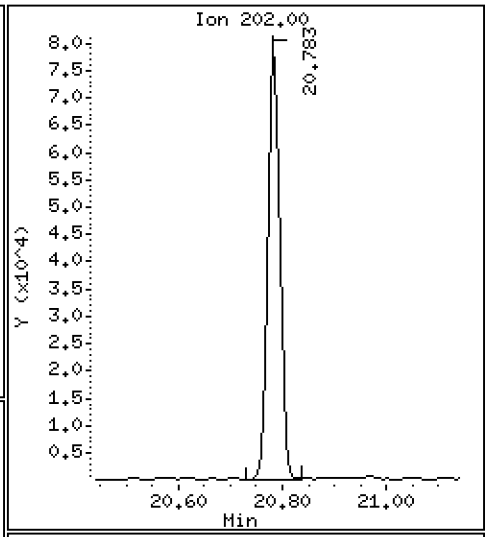
Concentration: 1.726 ug/mL

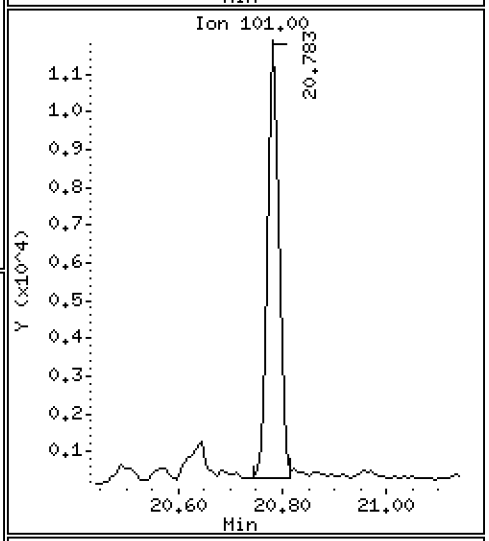


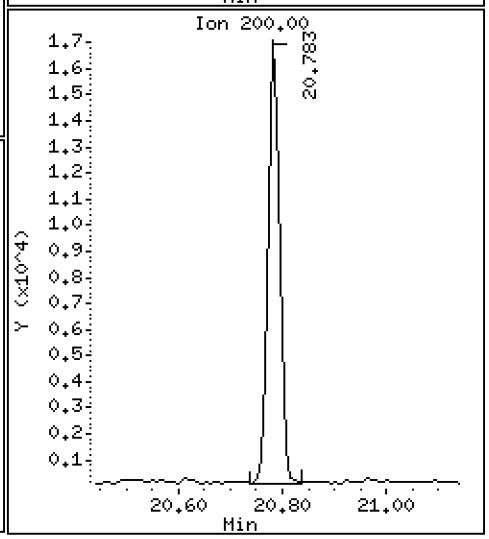












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Date : 01-JAN-2023 04:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-01

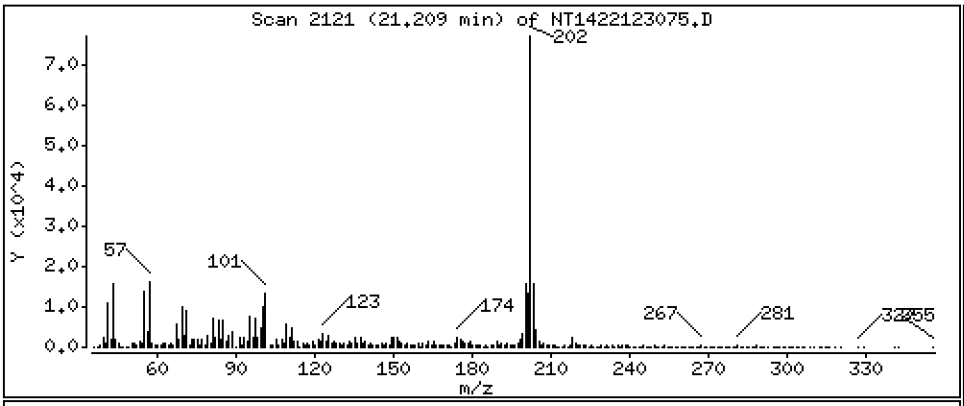
Operator: VTS

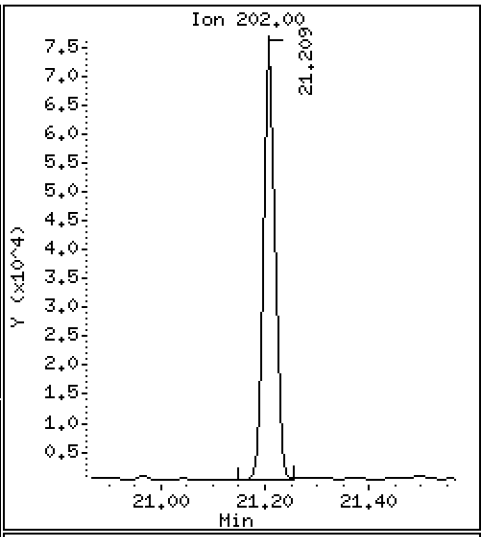
Column phase: ZB-5msi

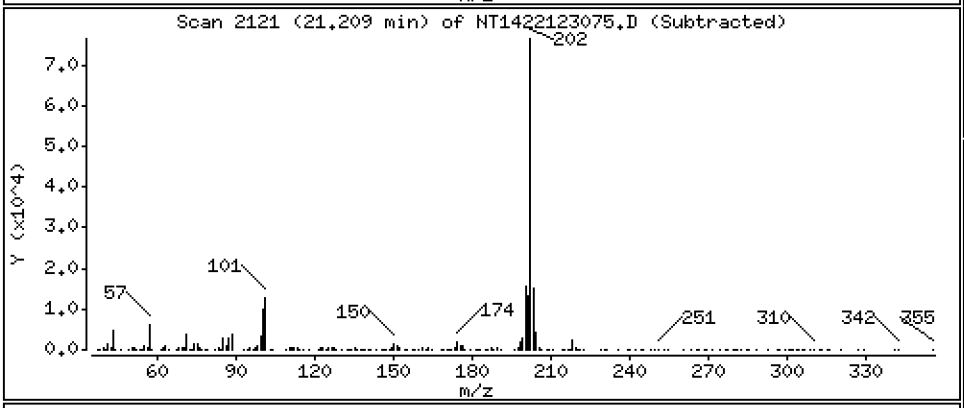
Column diameter: 0.25

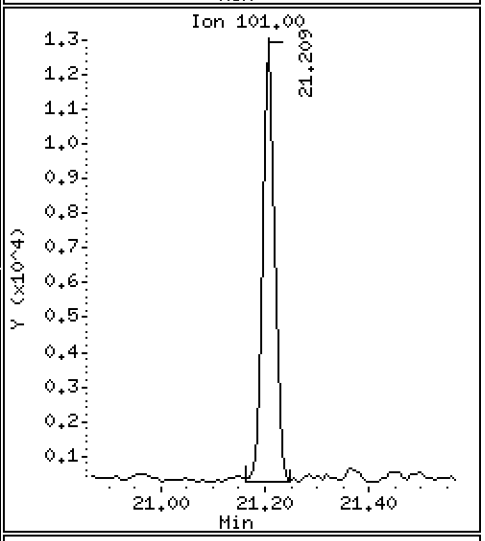
65 Pyrene

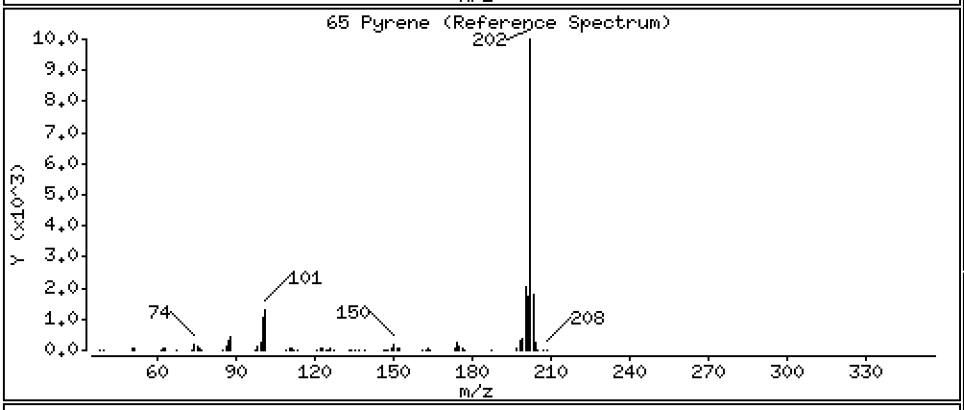
Concentration: 1.517 ug/mL

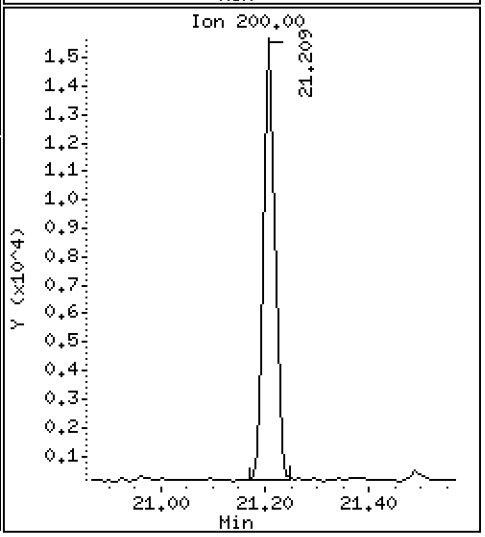


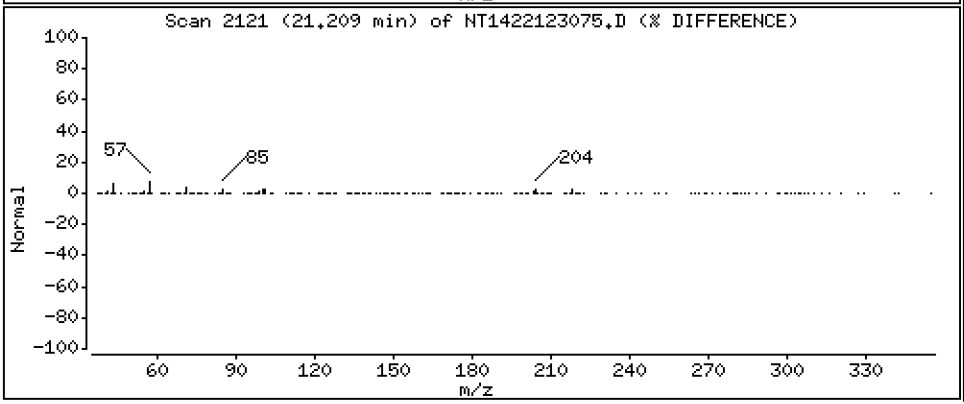












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Date : 01-JAN-2023 04:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-01

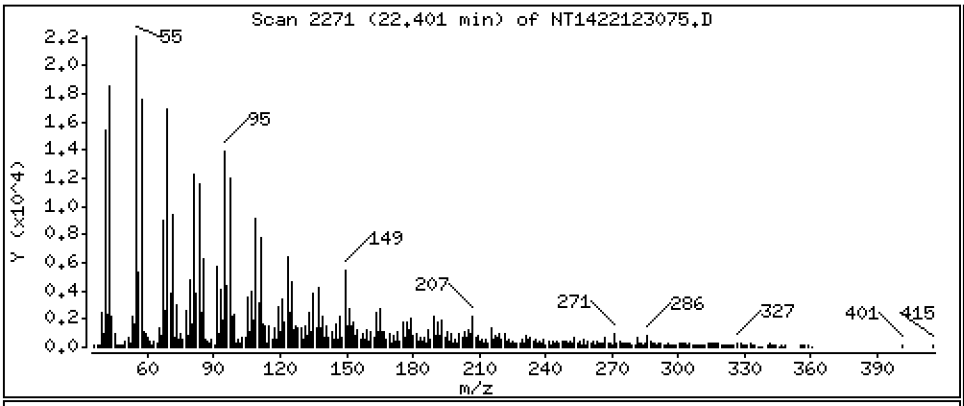
Operator: VTS

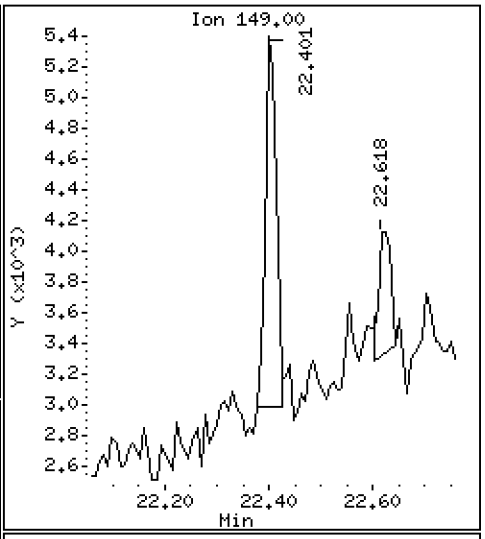
Column phase: ZB-5msi

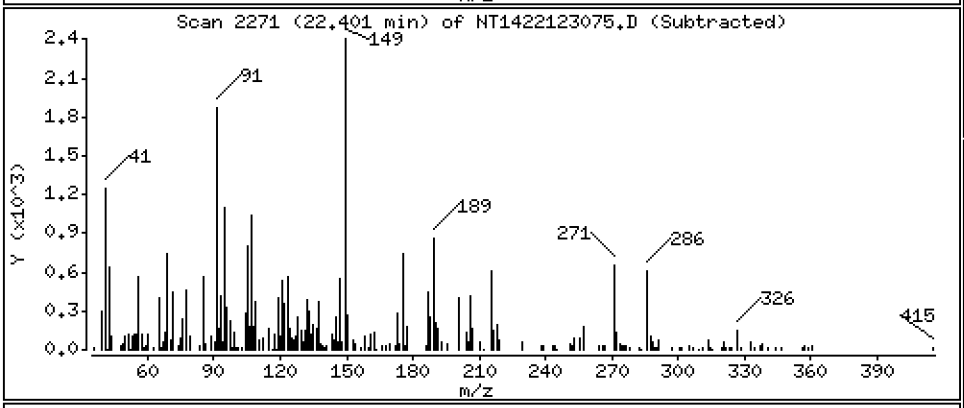
Column diameter: 0.25

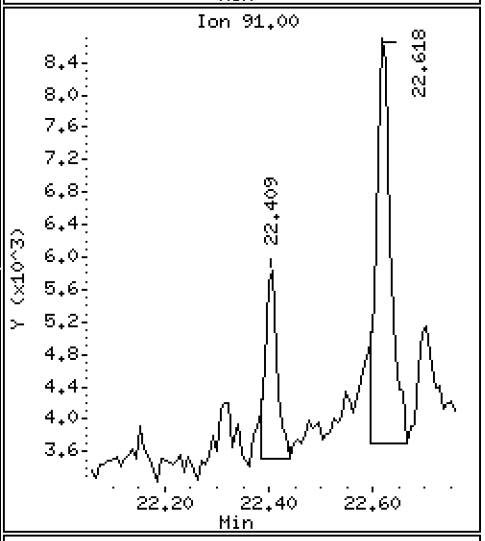
67 Butylbenzylphthalate

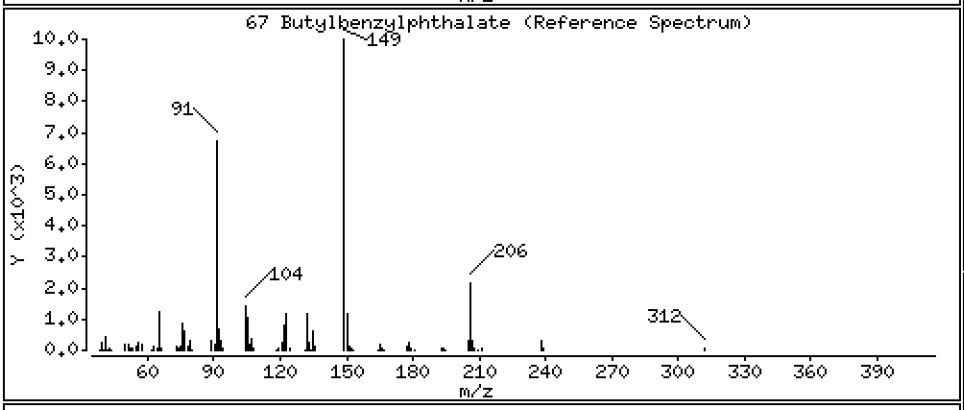
Concentration: 0.1187 ug/mL

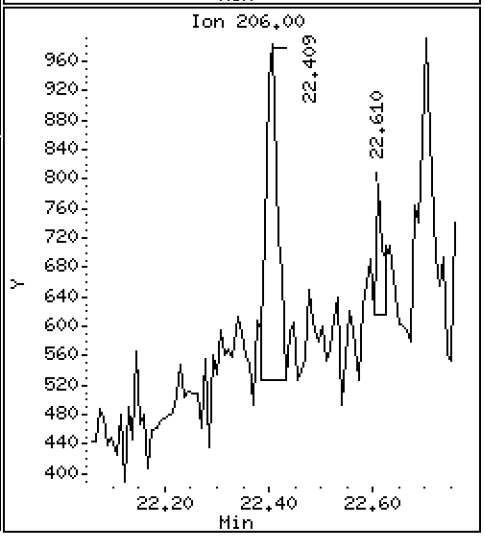


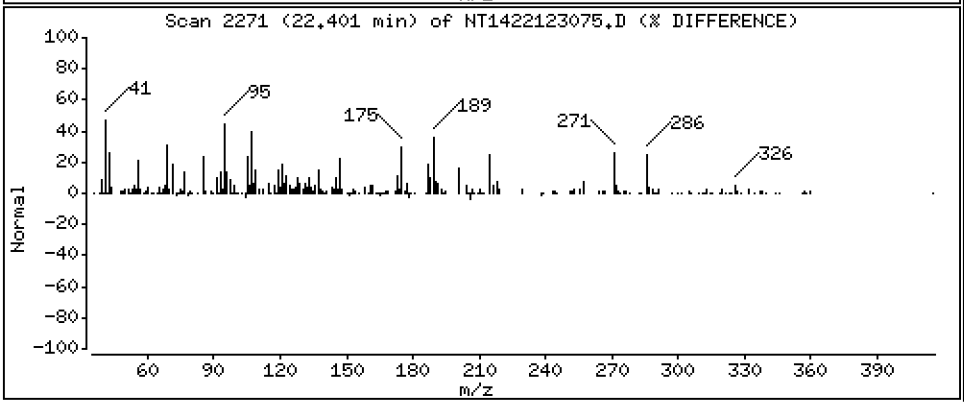












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Date : 01-JAN-2023 04:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-01

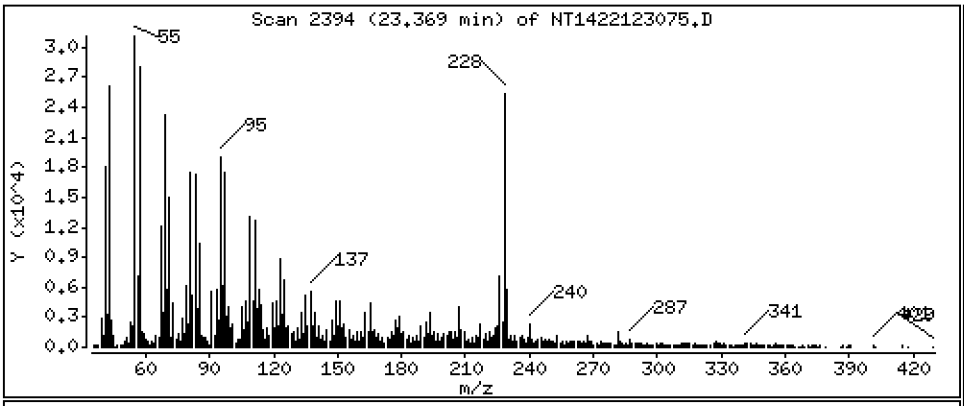
Operator: VTS

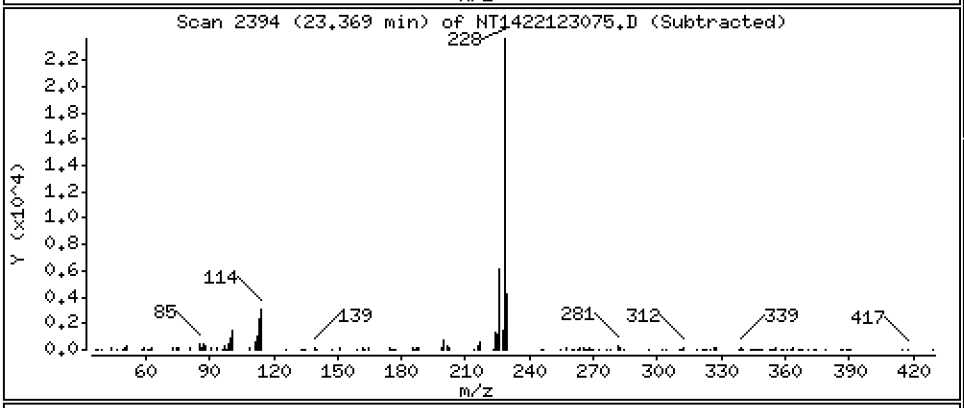
Column phase: ZB-5msi

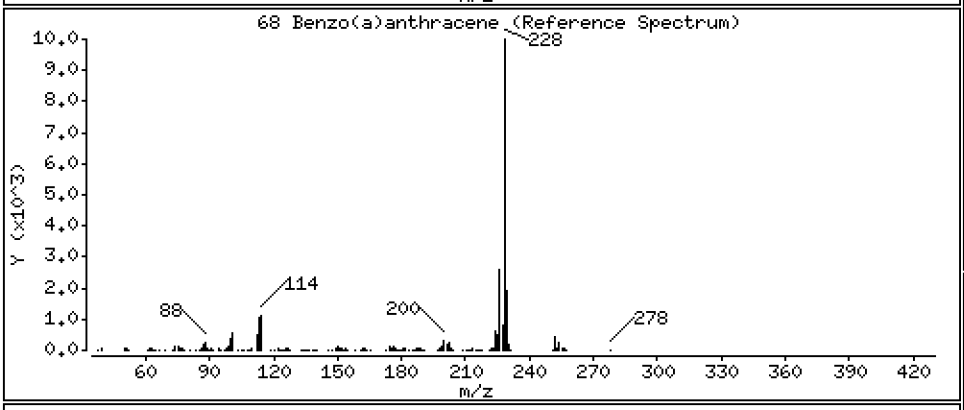
Column diameter: 0.25

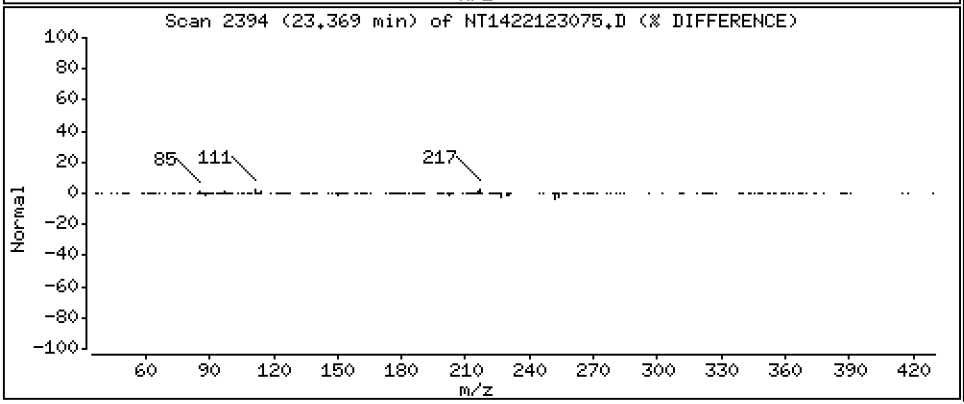
68 Benzo(a)anthracene

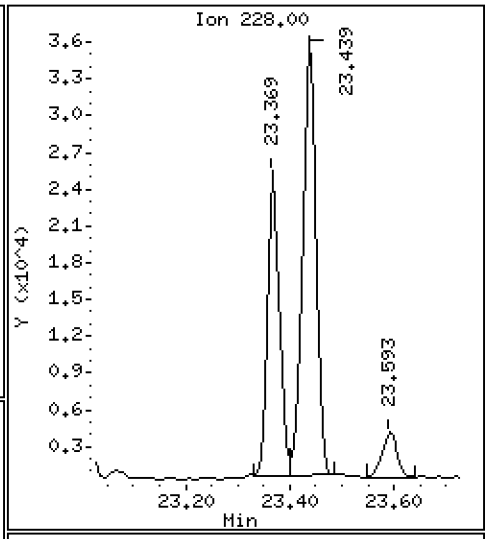
Concentration: 0.5693 ug/mL

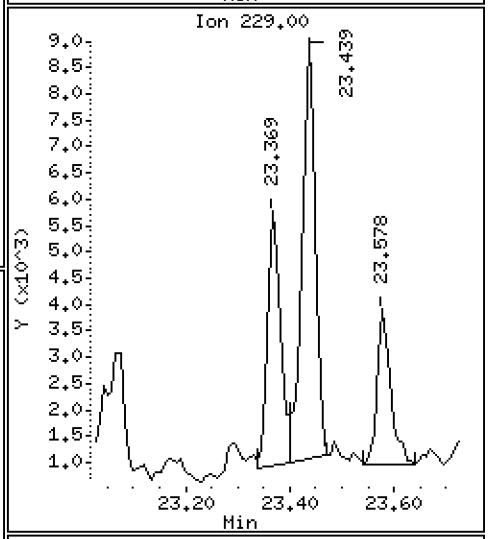


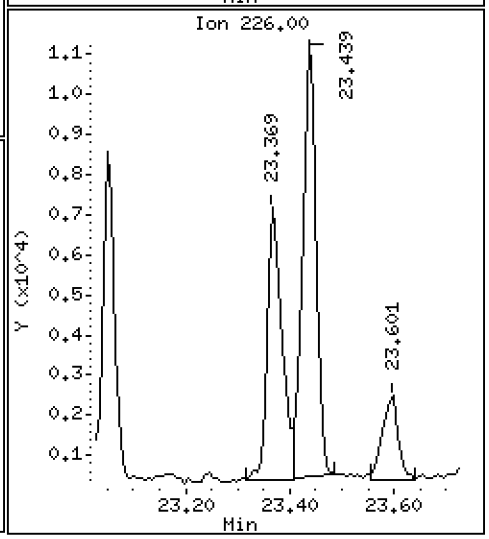












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Date : 01-JAN-2023 04:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-01

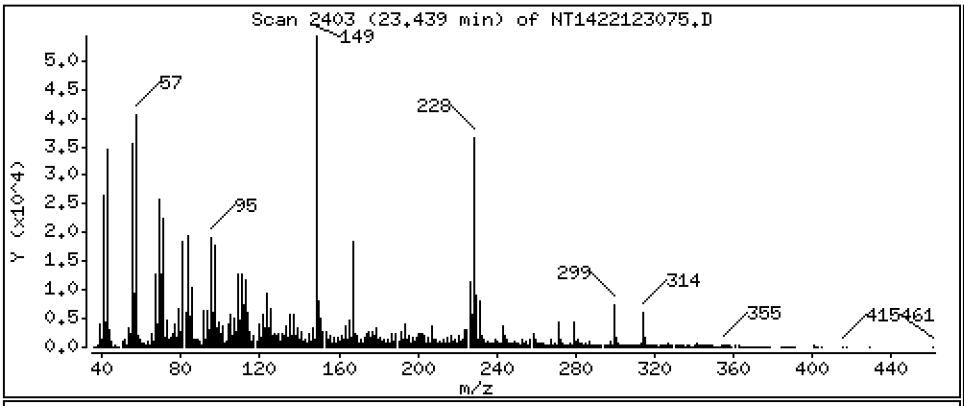
Operator: VTS

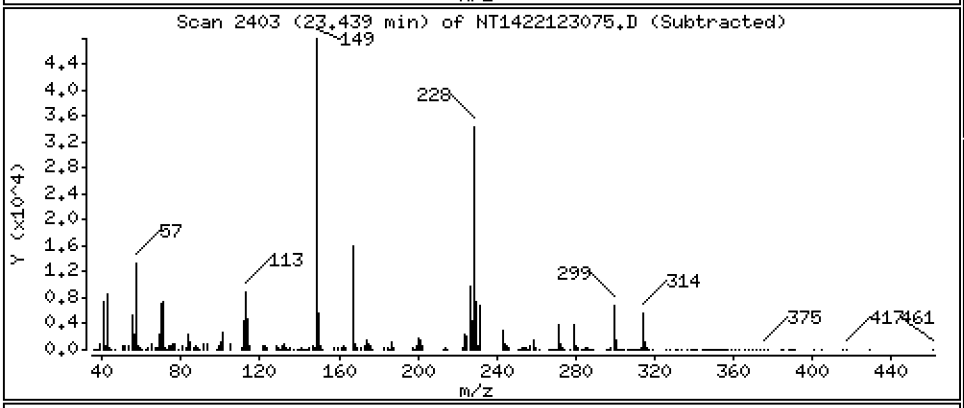
Column phase: ZB-5msi

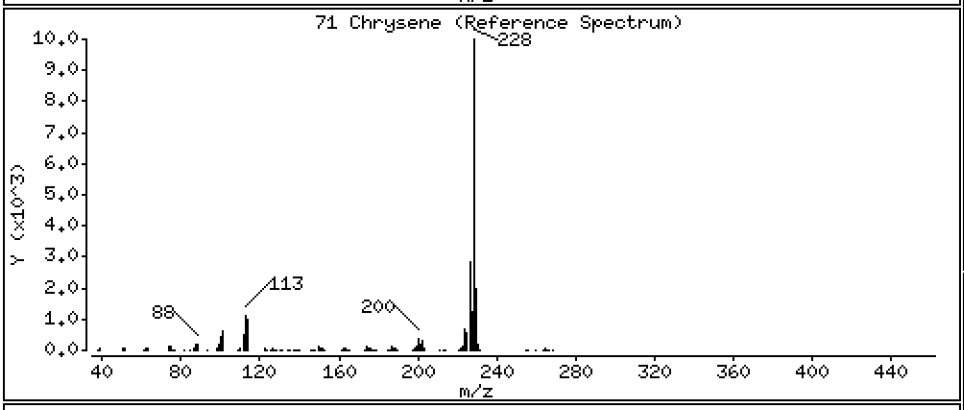
Column diameter: 0.25

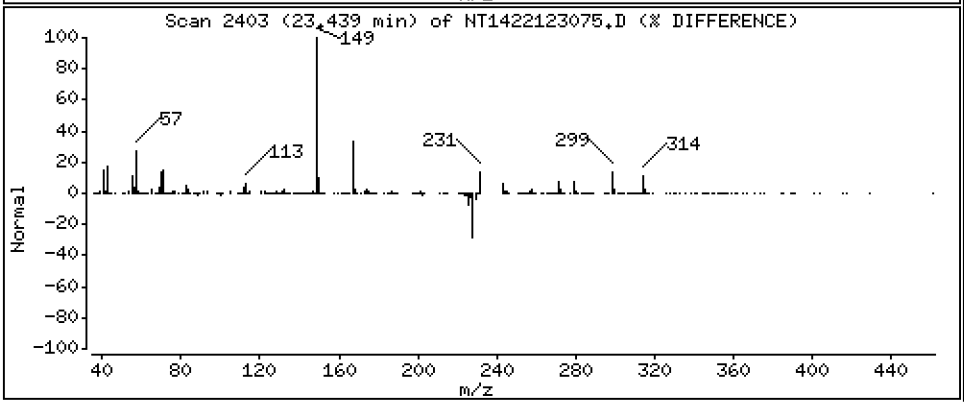
71 Chrysene

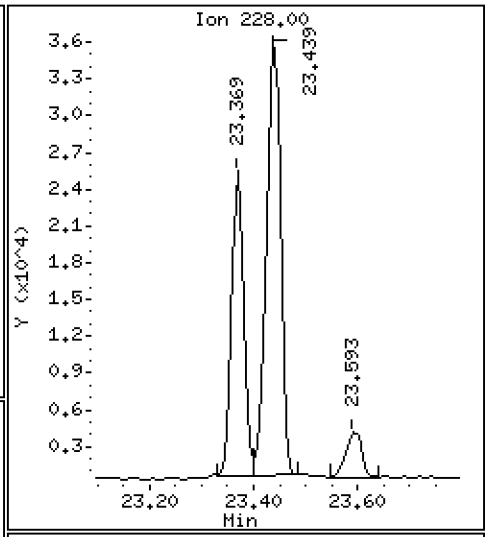
Concentration: 1.013 ug/mL

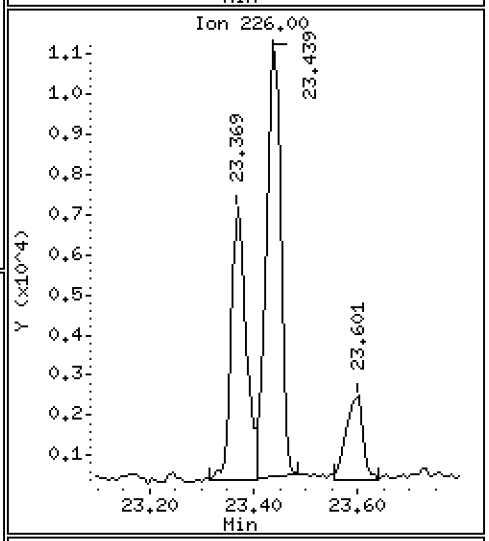


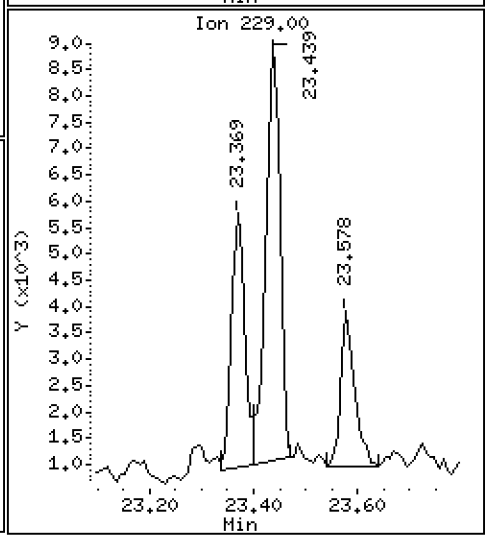












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Date : 01-JAN-2023 04:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-01

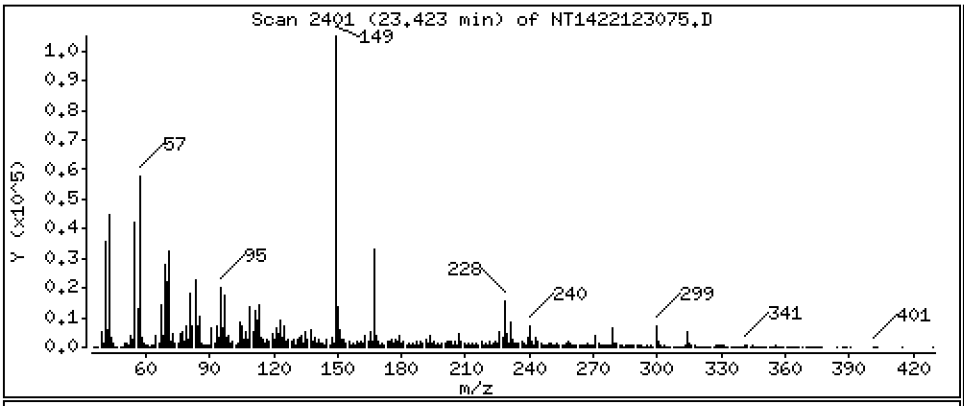
Operator: VTS

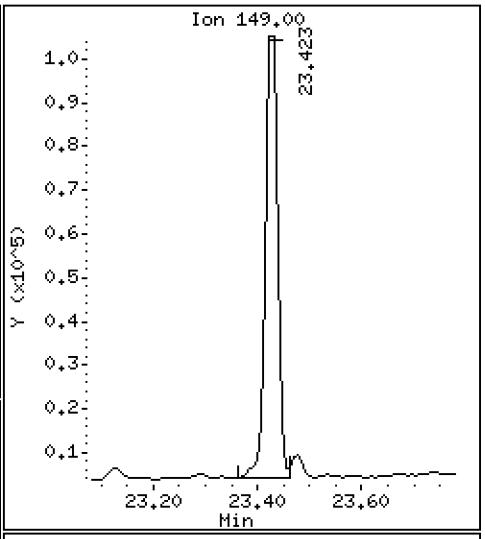
Column phase: ZB-5msi

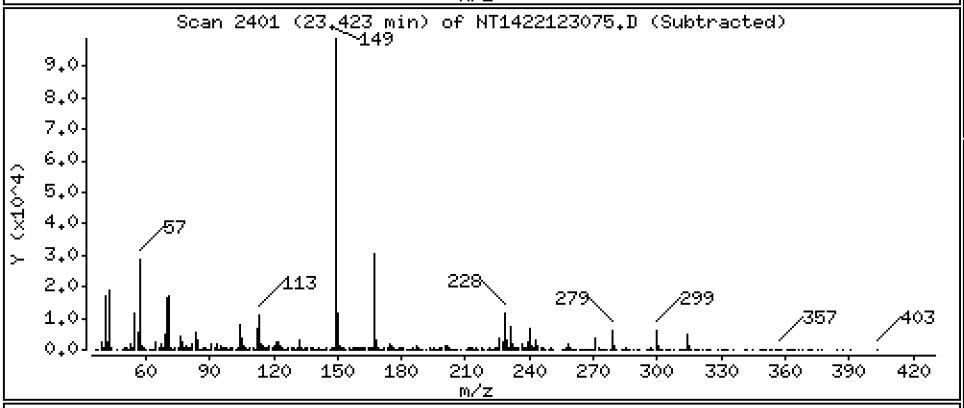
Column diameter: 0.25

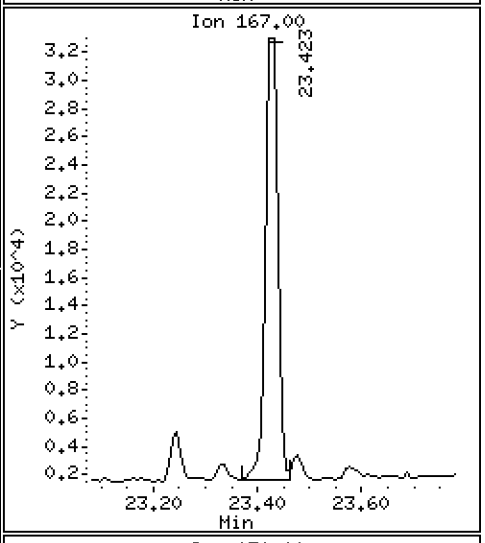
72 bis(2-Ethylhexyl)phthalate

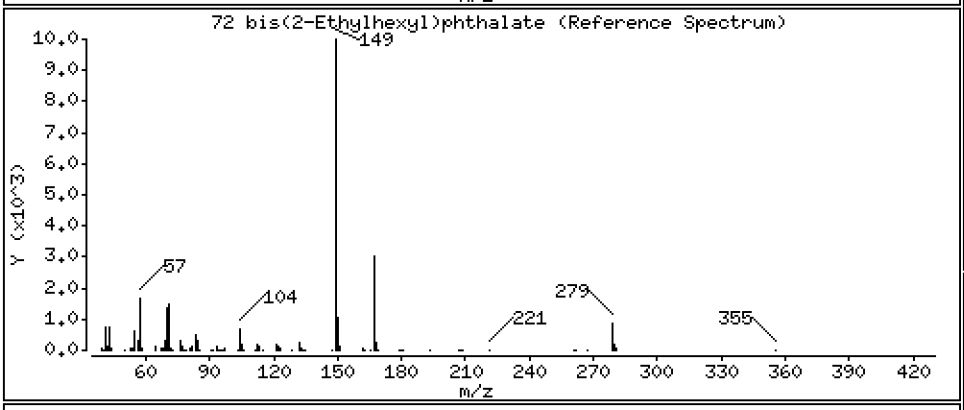
Concentration: 3.597 ug/mL

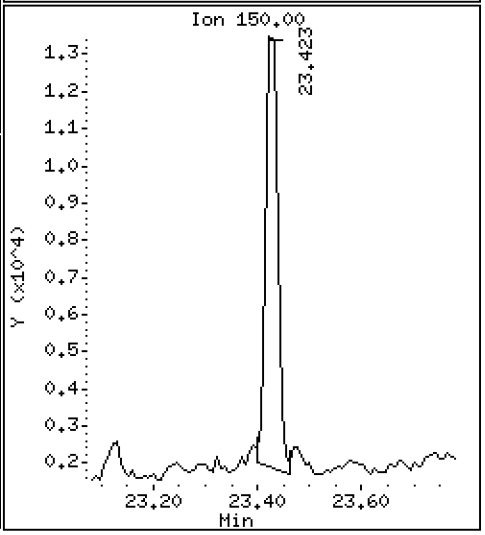


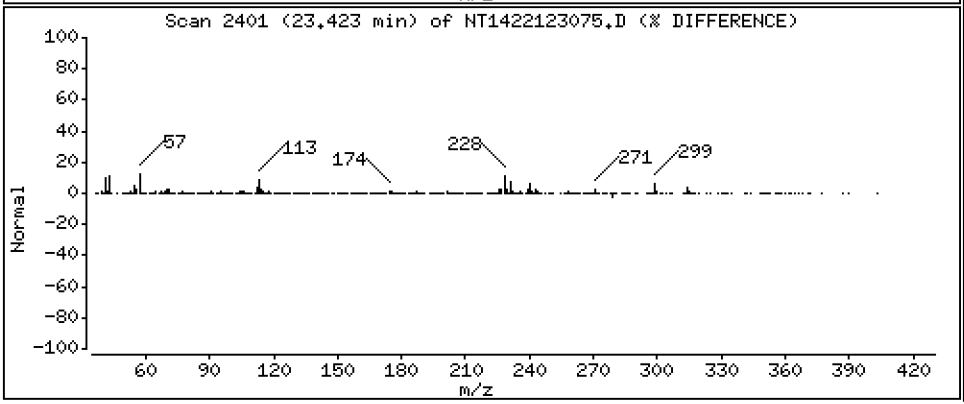












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Date : 01-JAN-2023 04:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-01

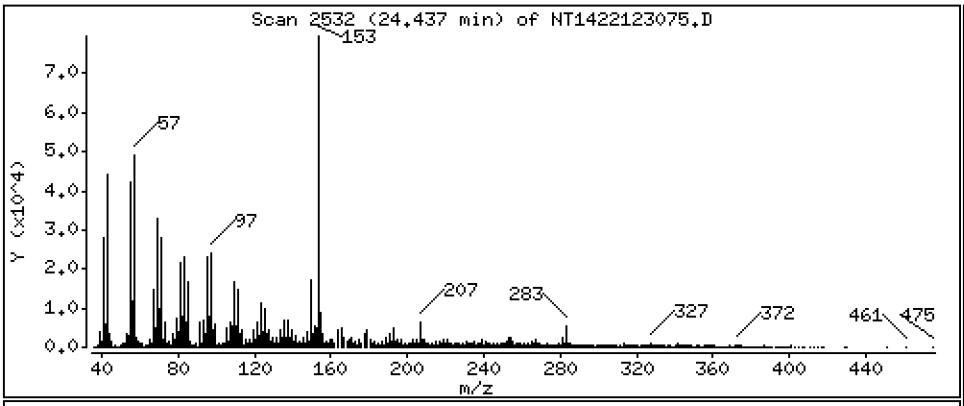
Operator: VTS

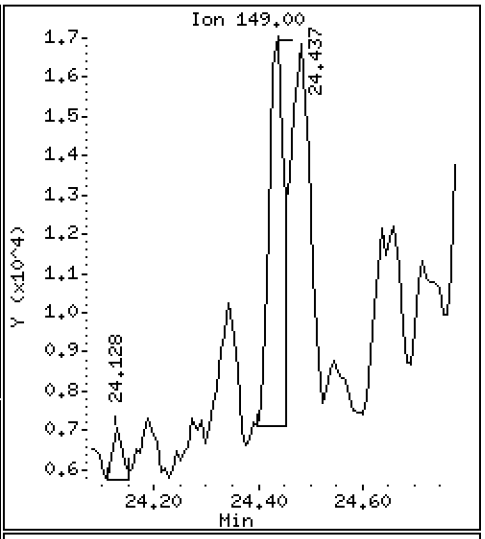
Column phase: ZB-5msi

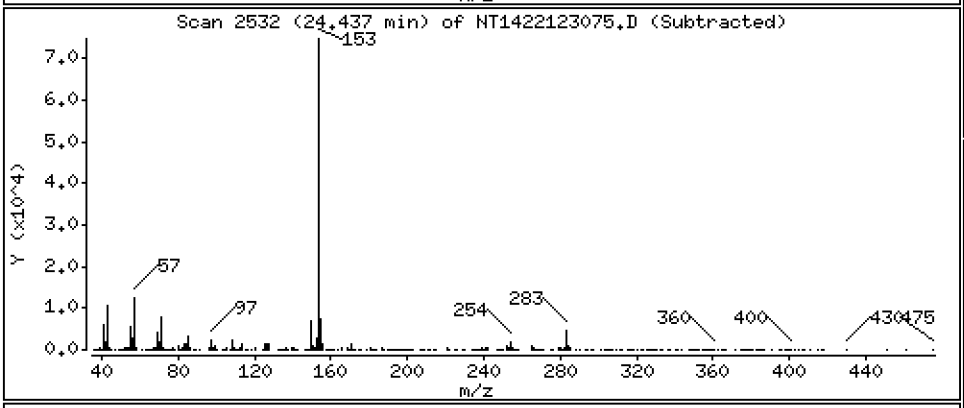
Column diameter: 0.25

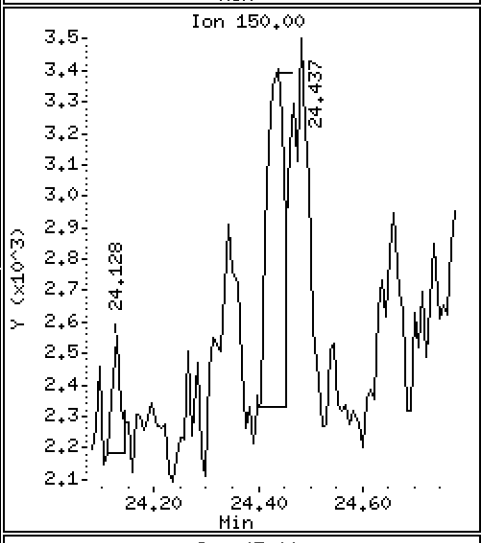
73 Di-n-octylphthalate

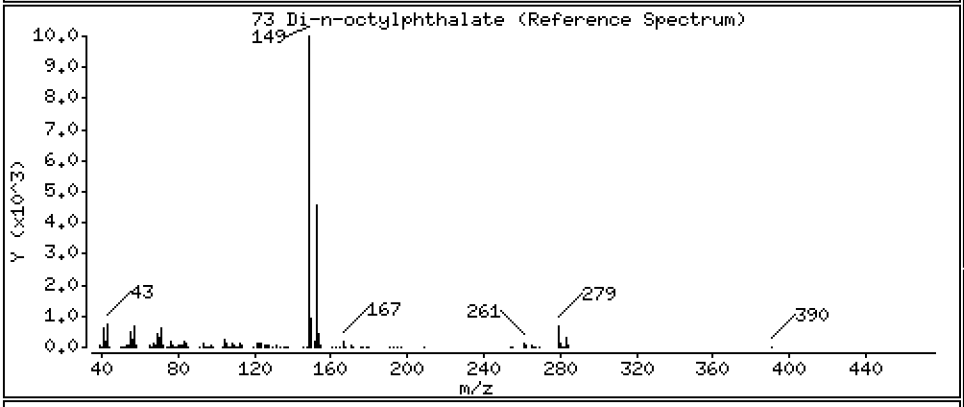
Concentration: 0.1984 ug/mL

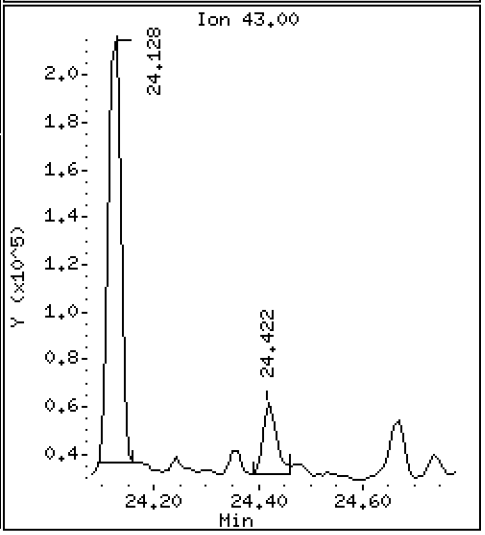


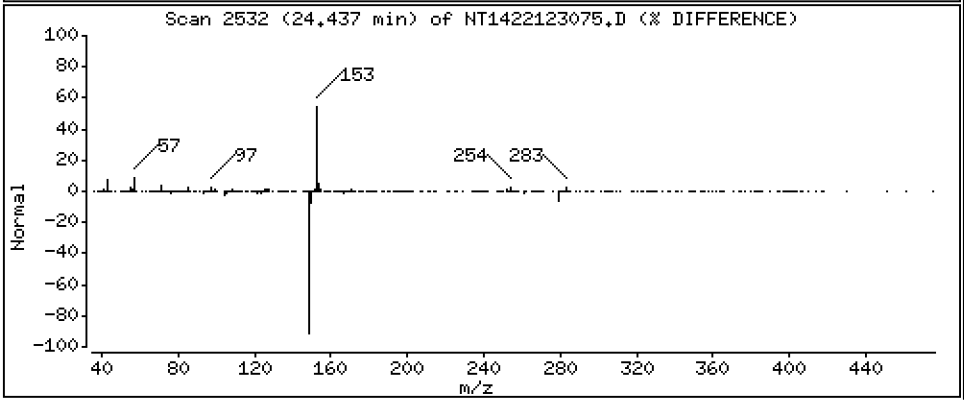












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Date : 01-JAN-2023 04:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-01

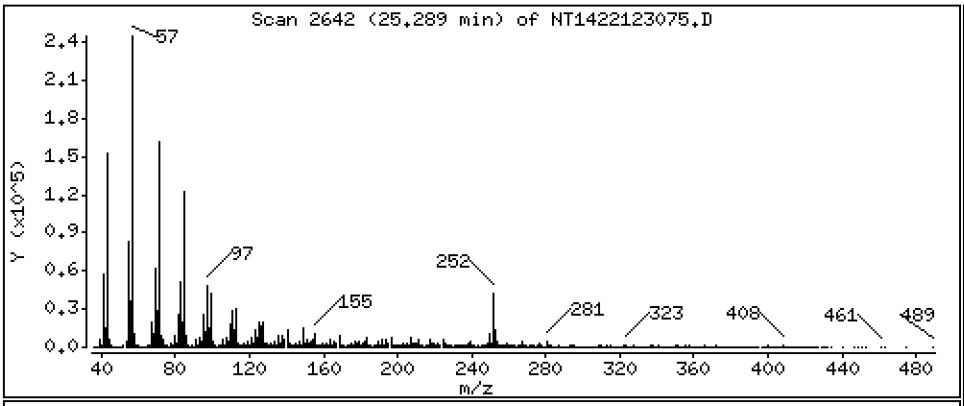
Operator: VTS

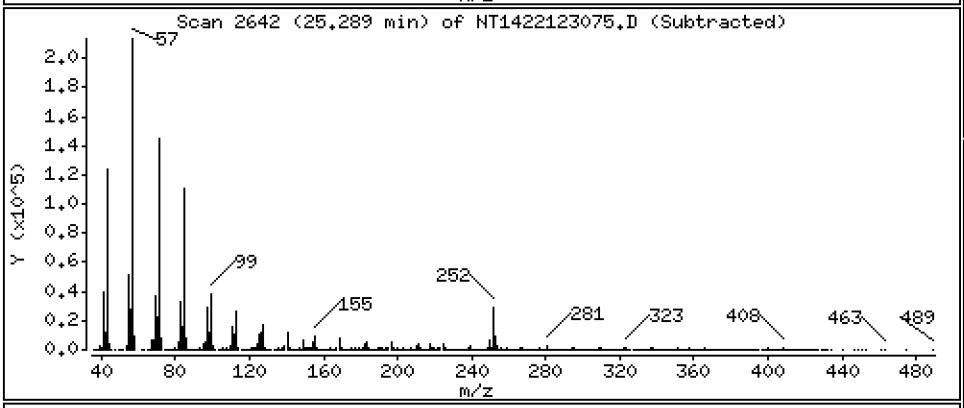
Column phase: ZB-5msi

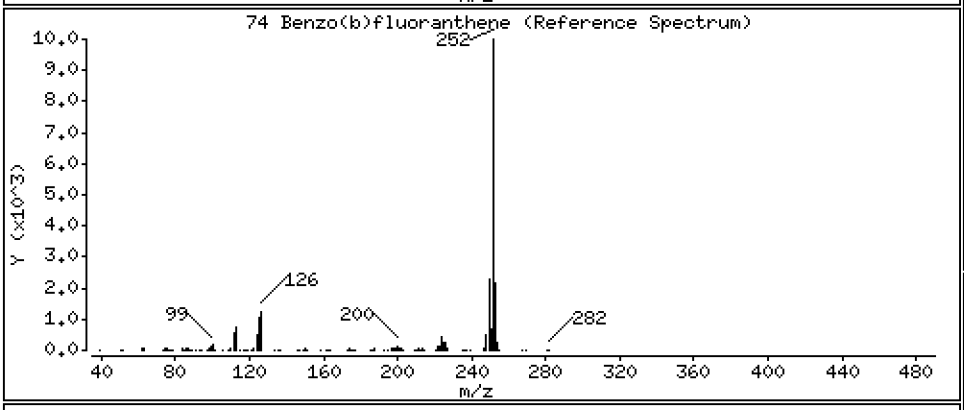
Column diameter: 0.25

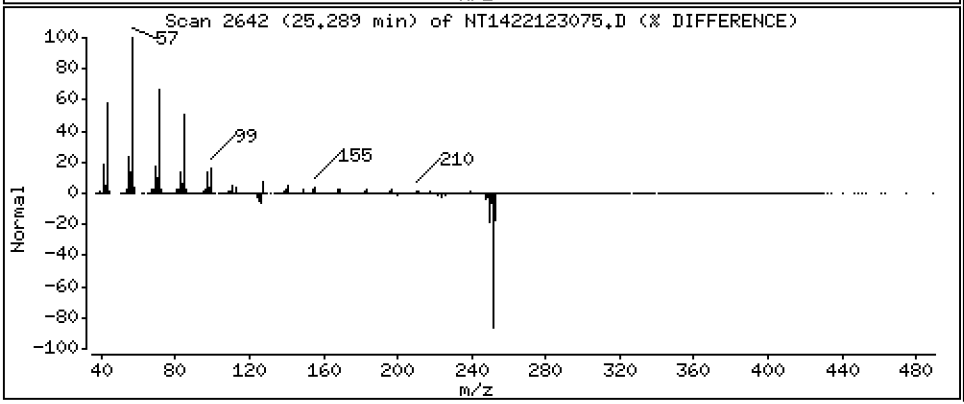
74 Benzo(b)fluoranthene

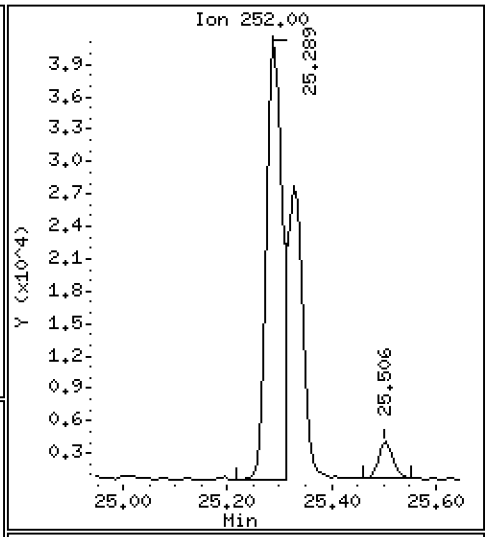
Concentration: 1.286 ug/mL

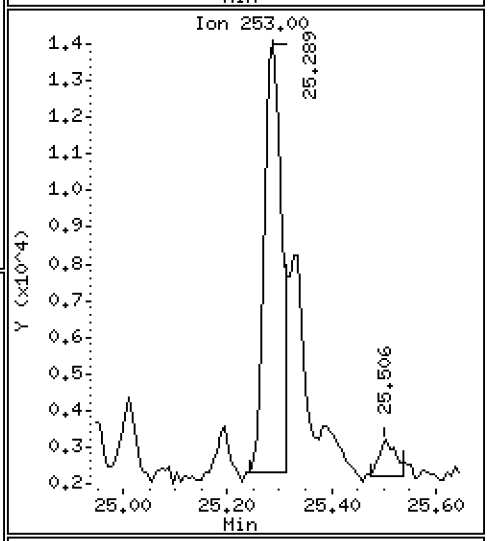


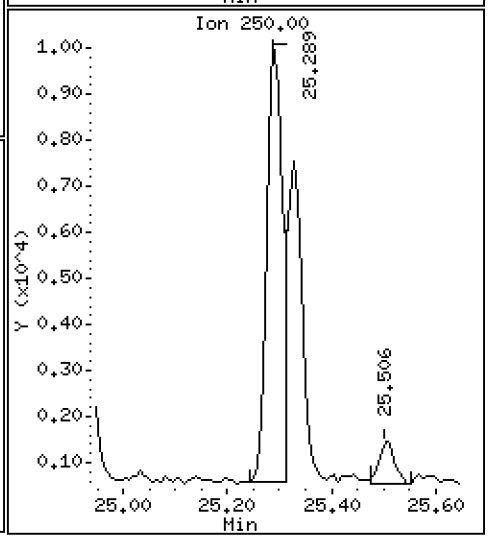












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Date : 01-JAN-2023 04:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-01

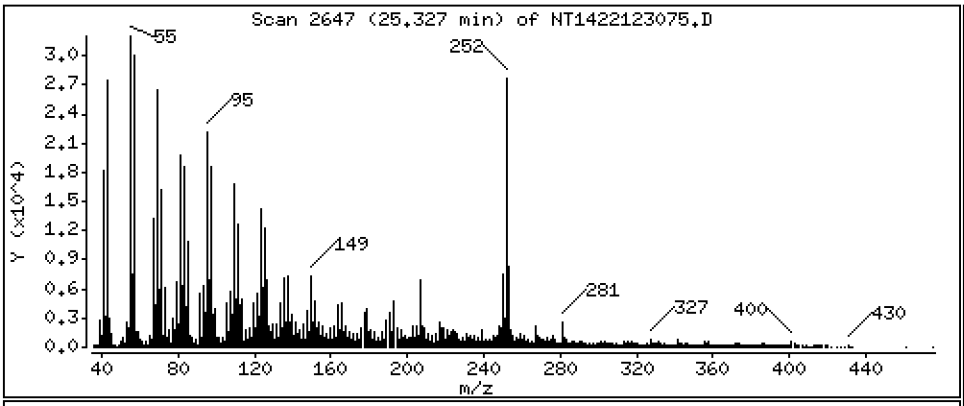
Operator: VTS

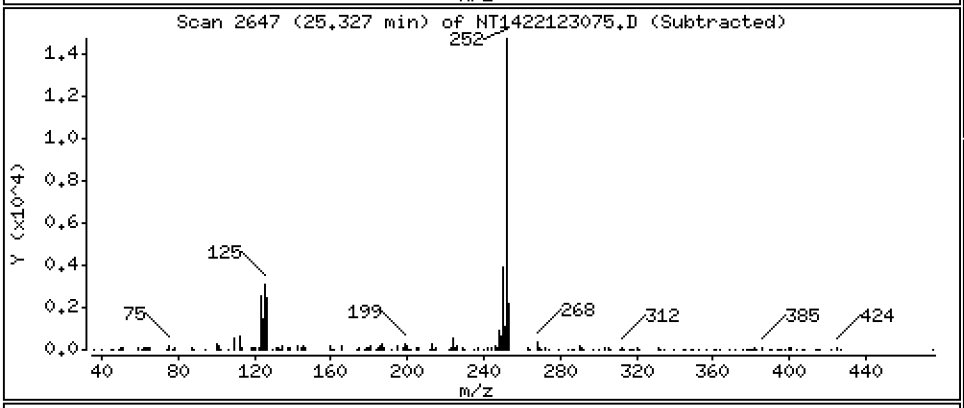
Column phase: ZB-5msi

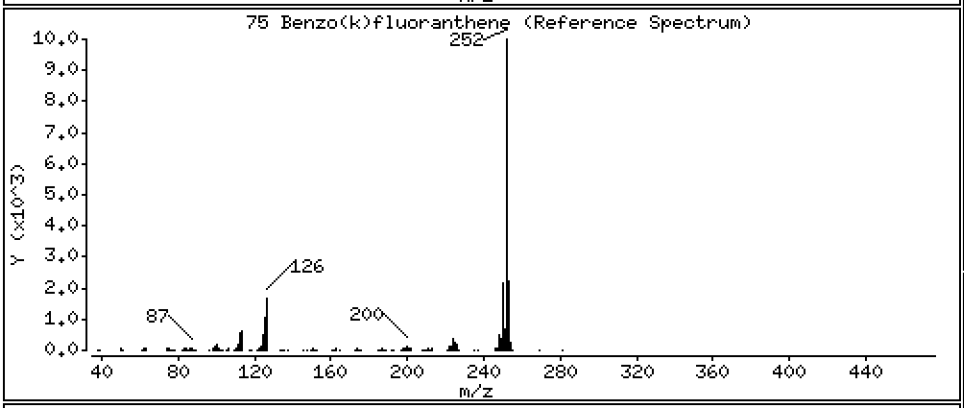
Column diameter: 0.25

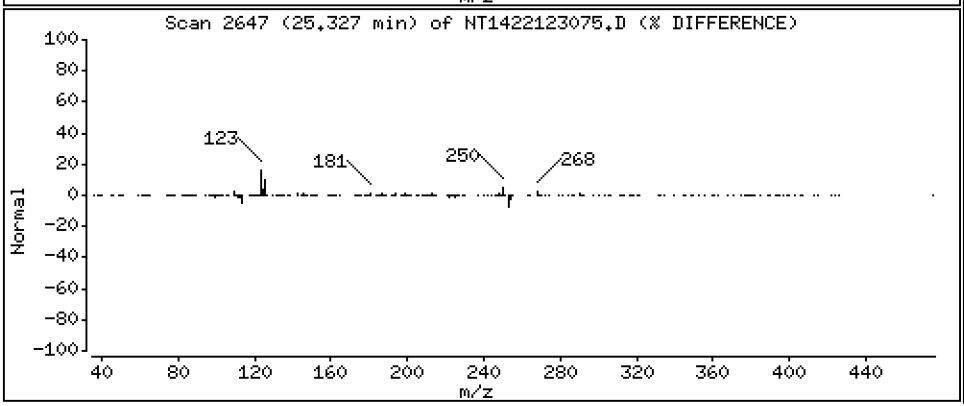
75 Benzo(k)fluoranthene

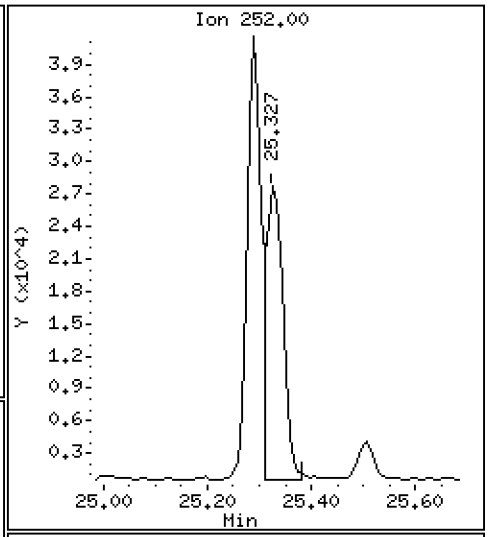
Concentration: 0.9350 ug/mL

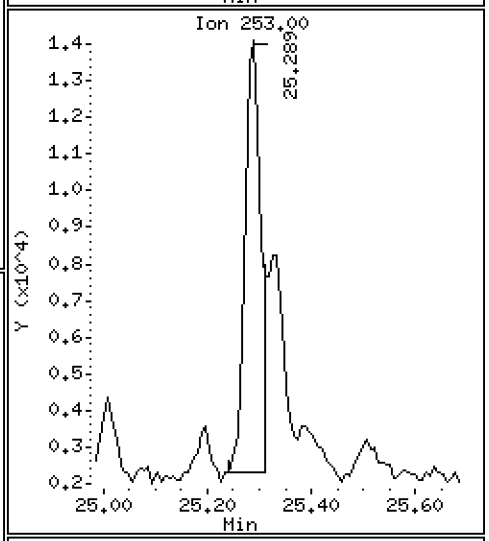


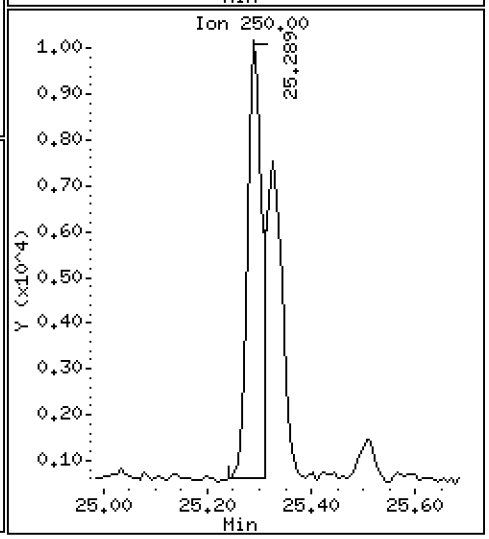












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Date : 01-JAN-2023 04:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-01

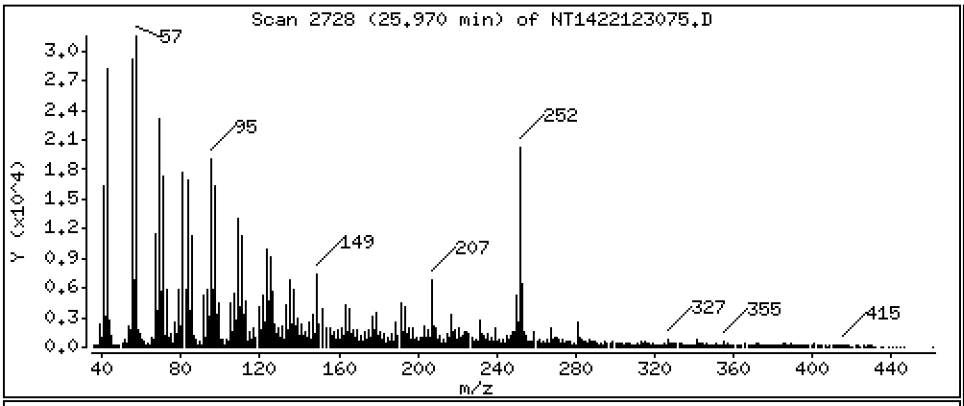
Operator: VTS

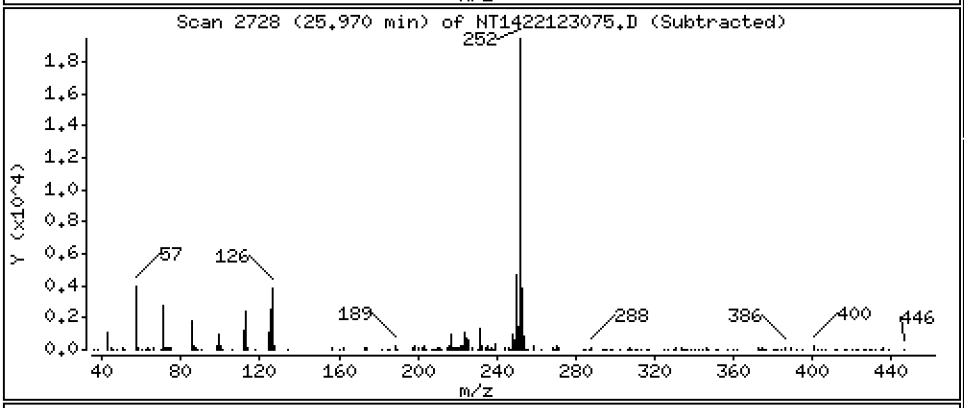
Column phase: ZB-5msi

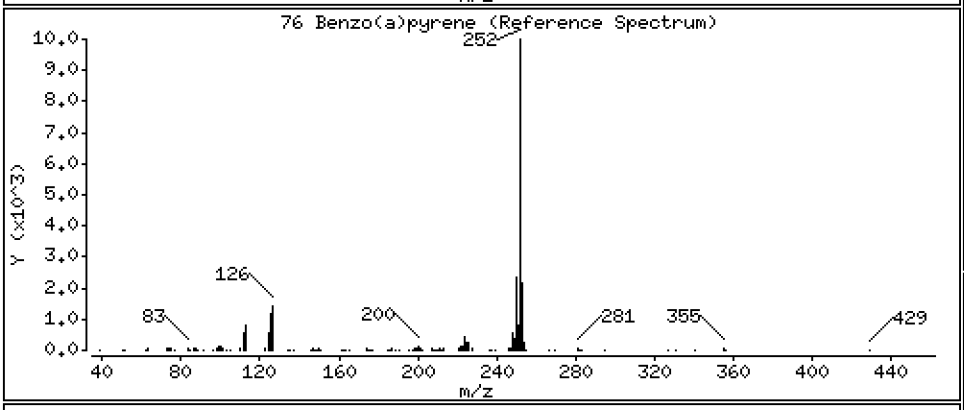
Column diameter: 0.25

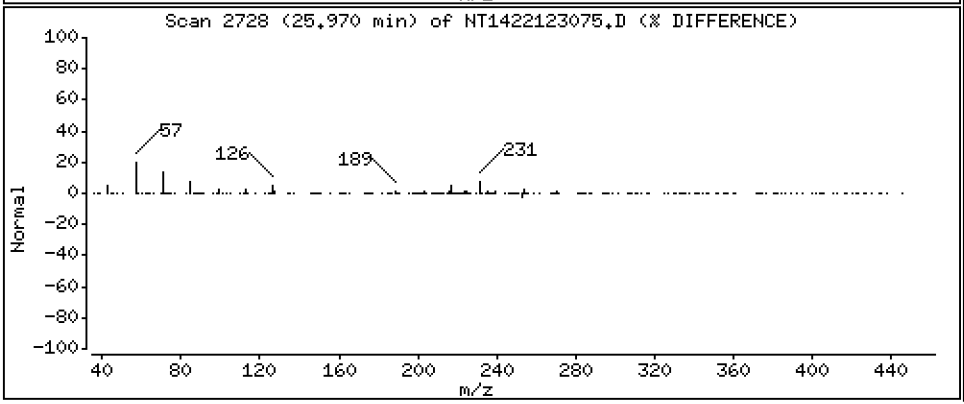
76 Benzo(a)pyrene

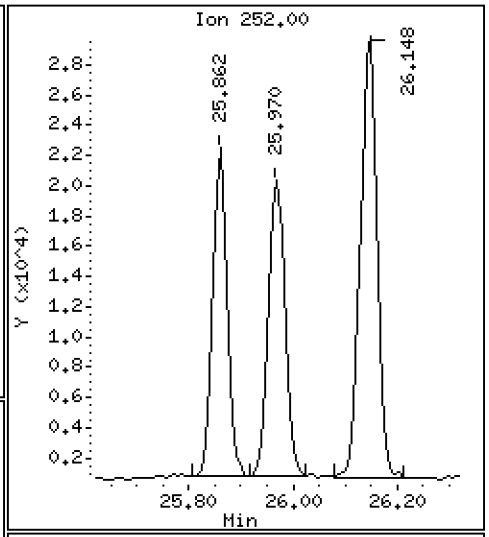
Concentration: 0.7737 ug/mL

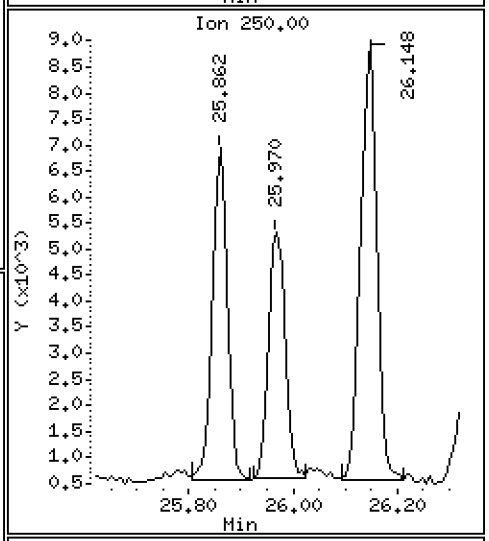


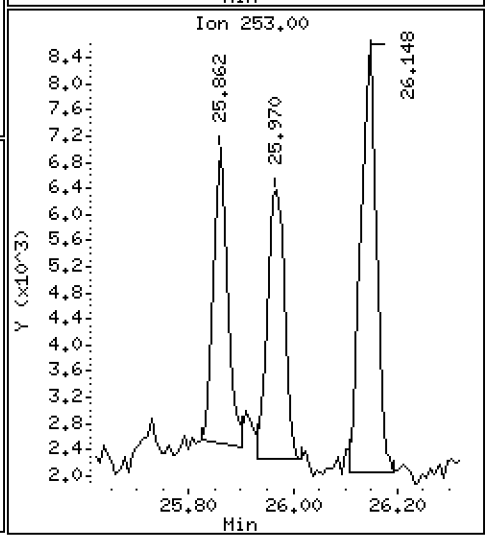












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Date : 01-JAN-2023 04:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-01

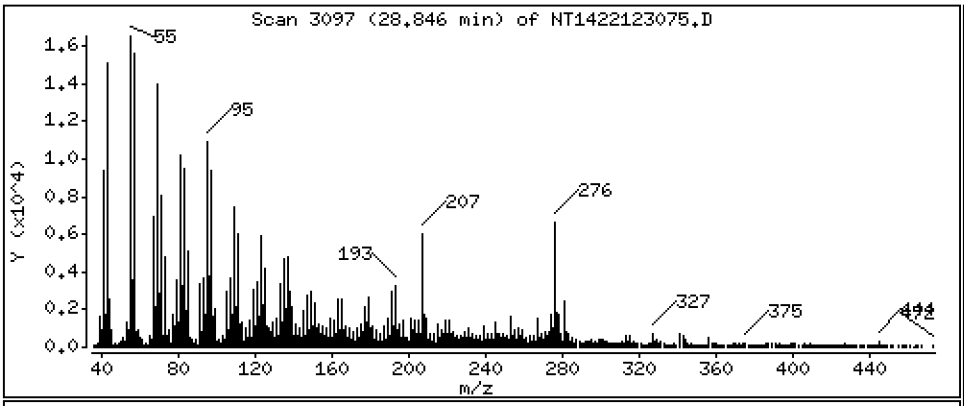
Operator: VTS

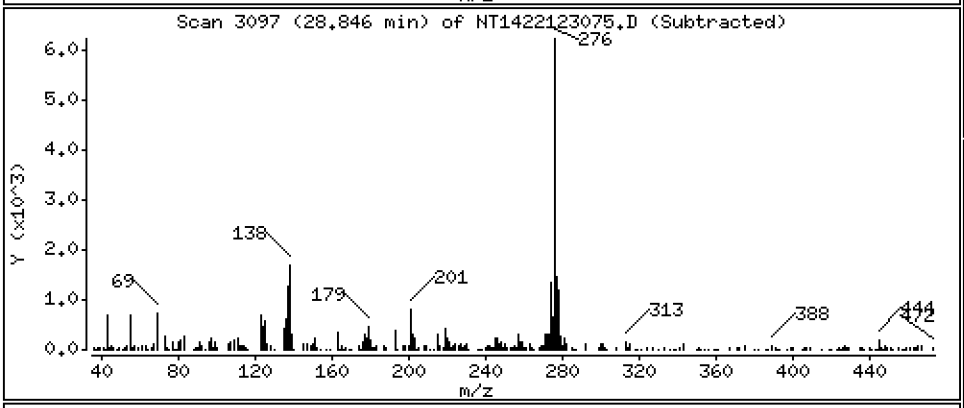
Column phase: ZB-5msi

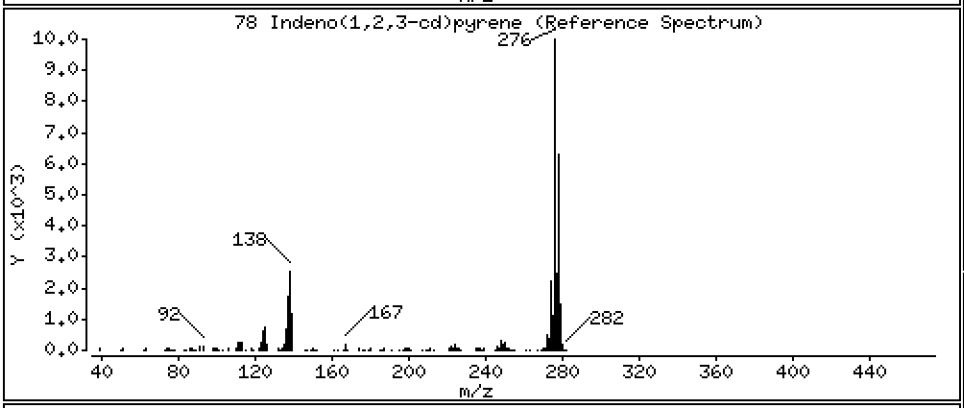
Column diameter: 0.25

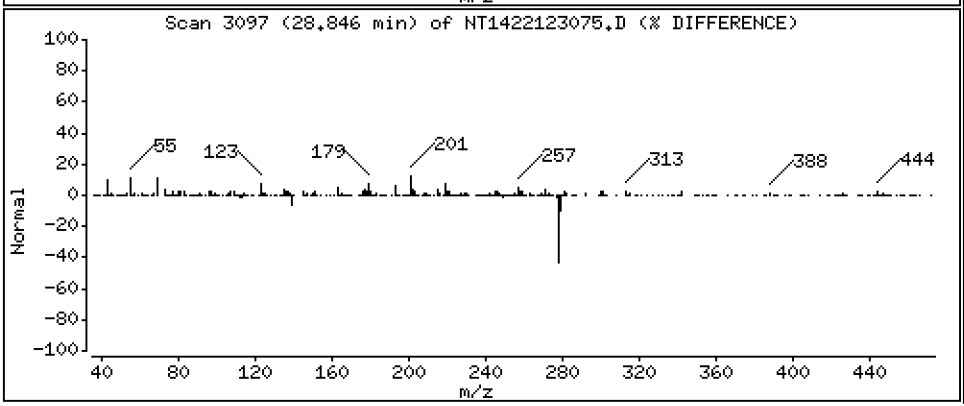
78 Indeno(1,2,3-cd)pyrene

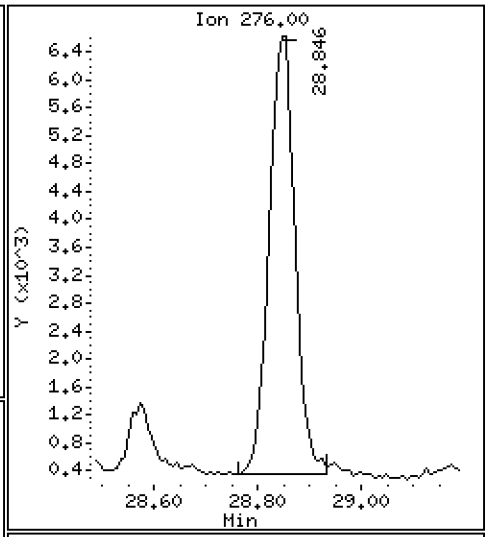
Concentration: 0.3537 ug/mL

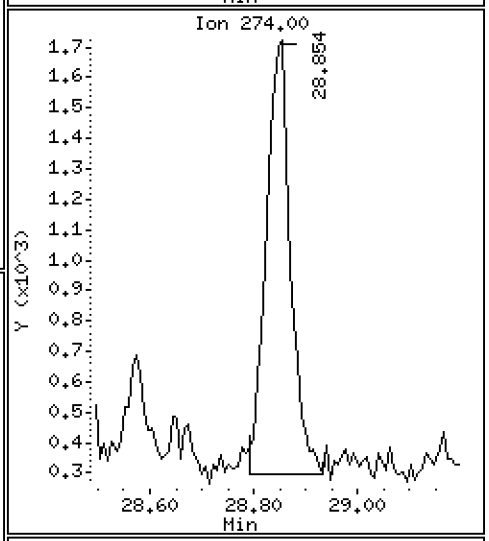


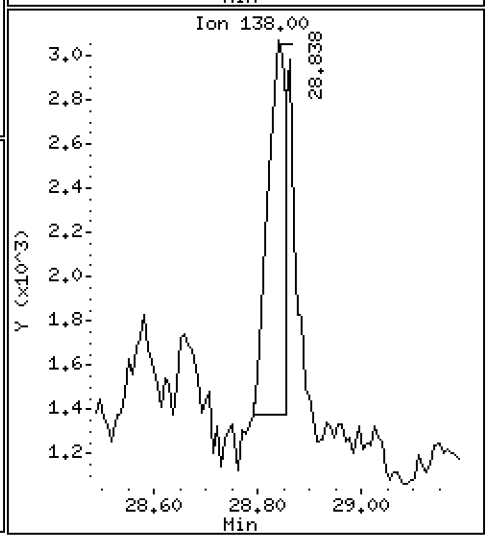












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Date : 01-JAN-2023 04:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-01

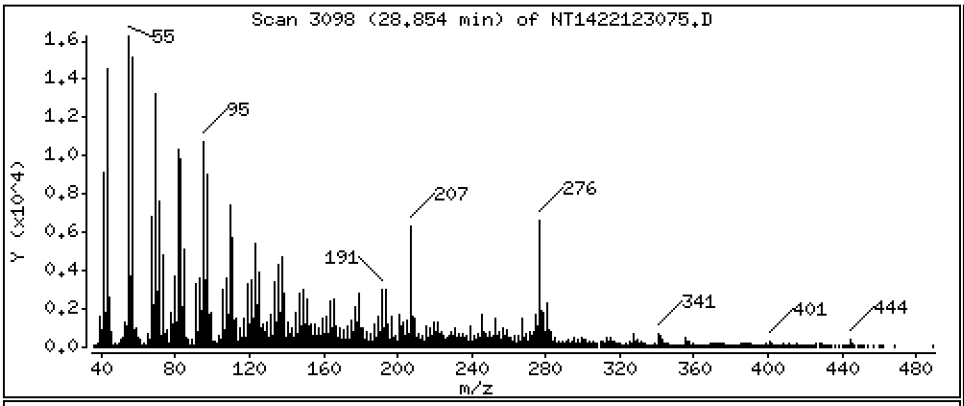
Operator: VTS

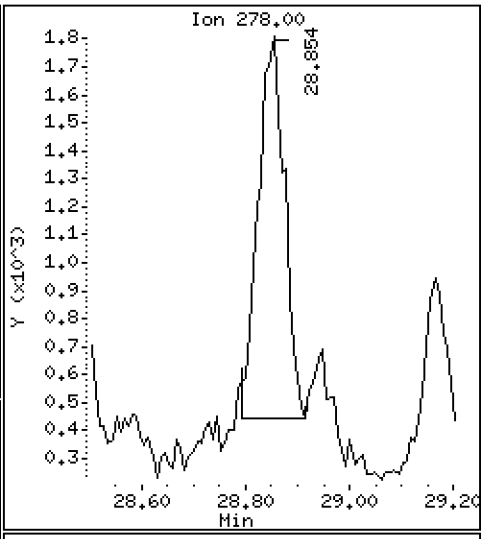
Column phase: ZB-5msi

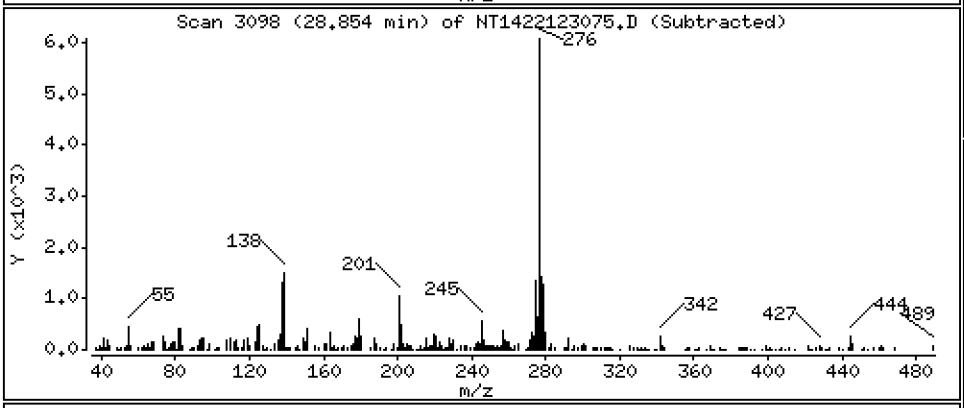
Column diameter: 0.25

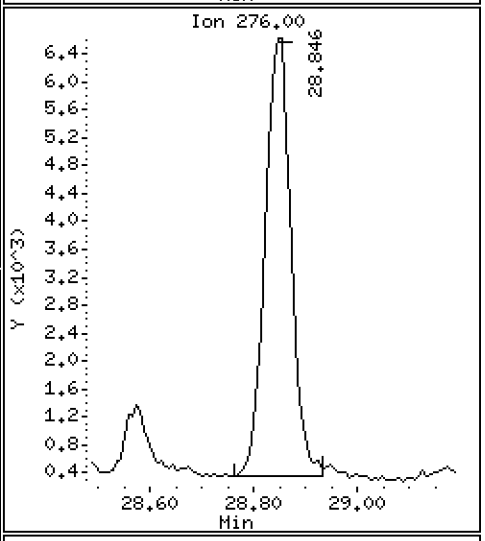
79 Dibenzo(a,h)anthracene

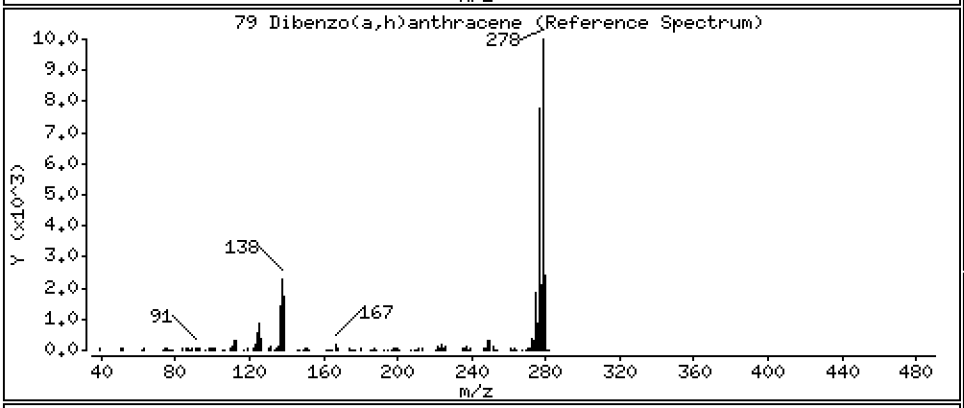
Concentration: 0.09127 ug/mL

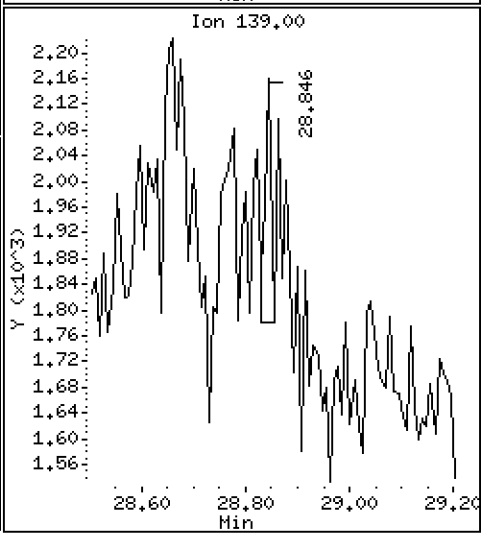


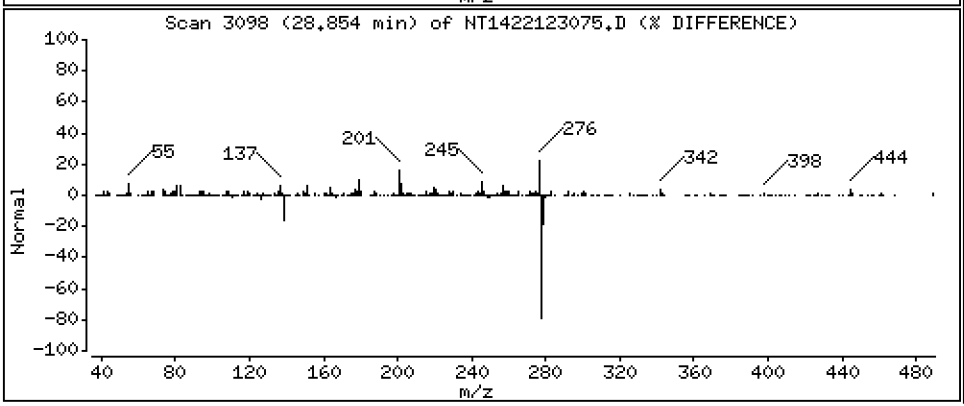












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Date : 01-JAN-2023 04:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-01

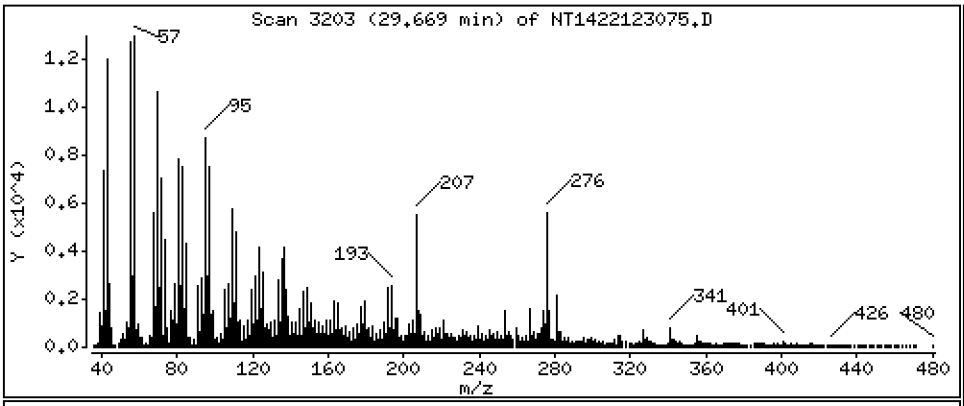
Operator: VTS

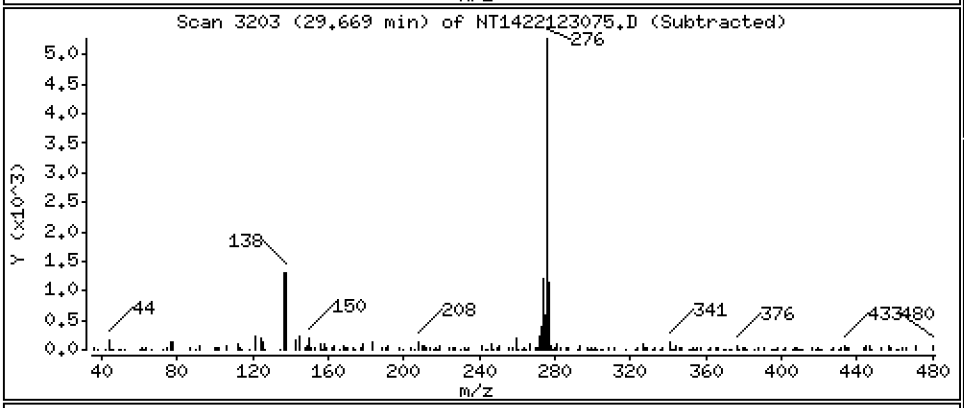
Column phase: ZB-5msi

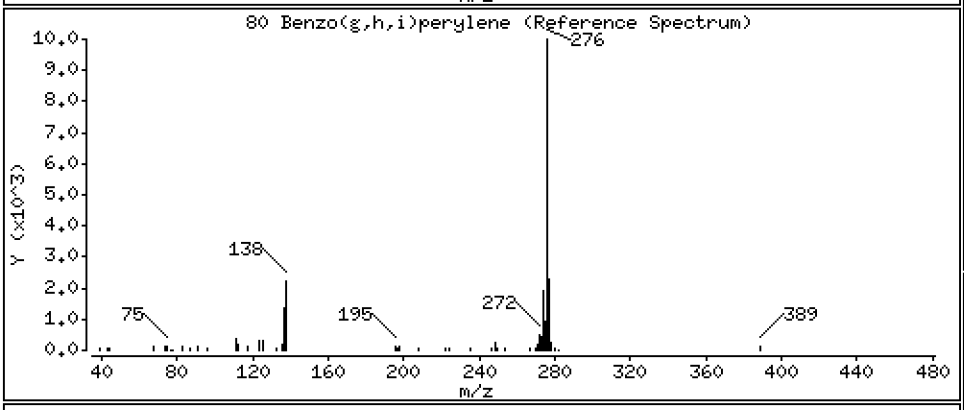
Column diameter: 0.25

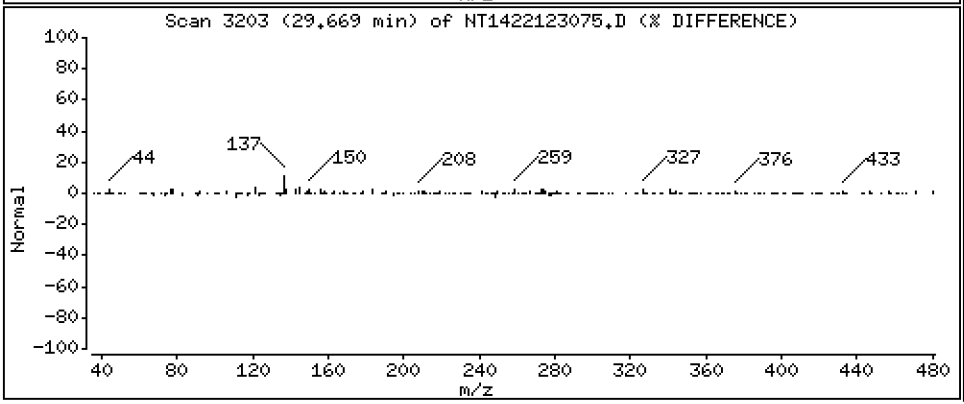
80 Benzo(g,h,i)perylene

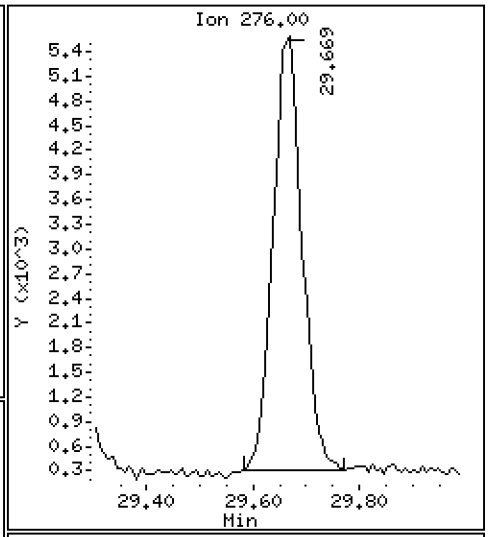
Concentration: 0.3910 ug/mL

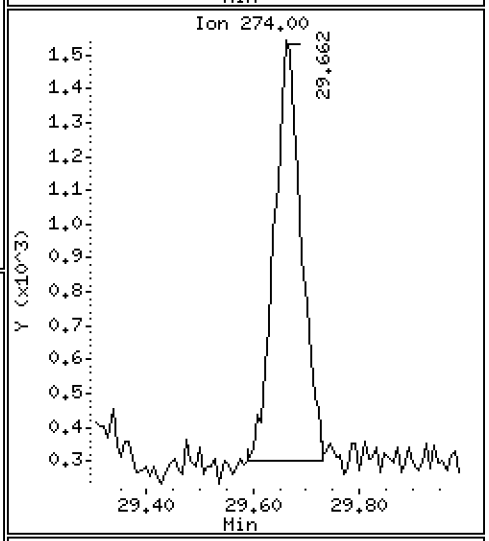


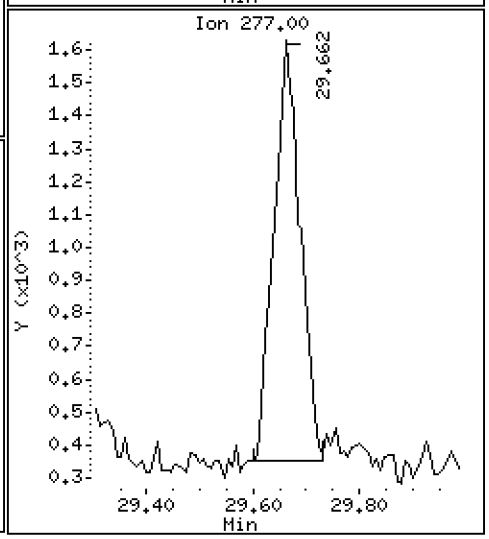












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123075.D

Date : 01-JAN-2023 04:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-01

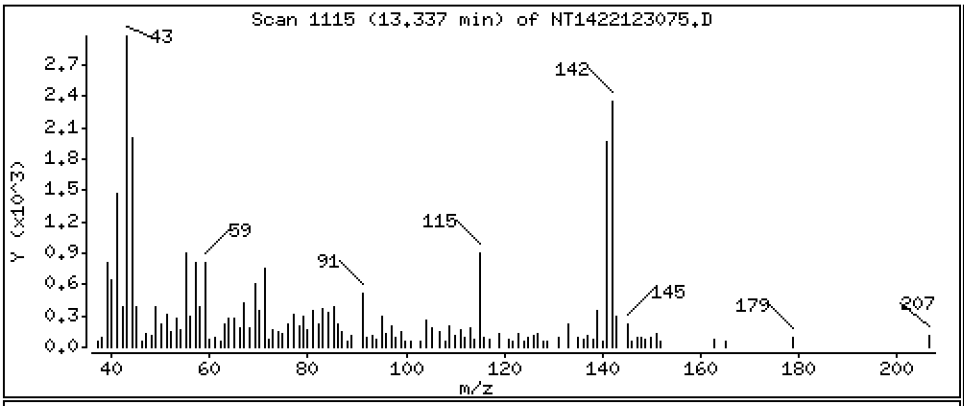
Operator: VTS

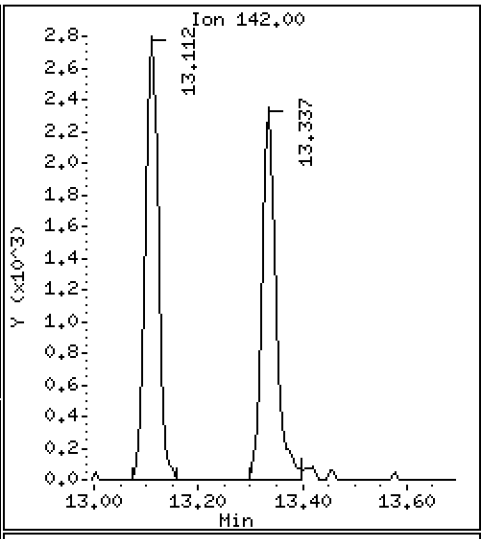
Column phase: ZB-5msi

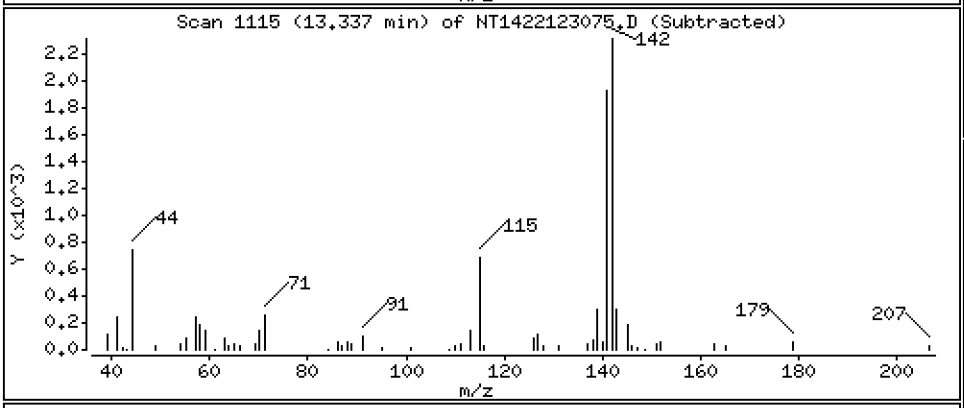
Column diameter: 0.25

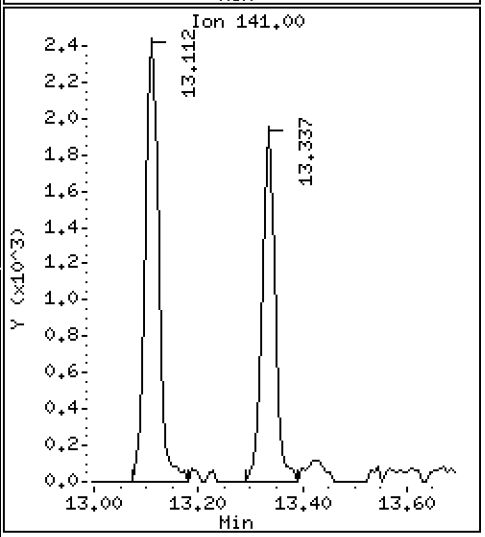
105 1-methylnaphthalene

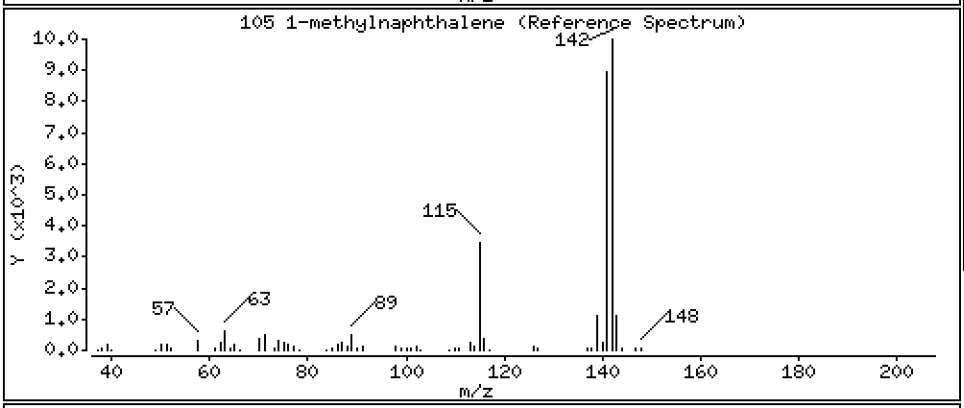
Concentration: 0.07593 ug/mL

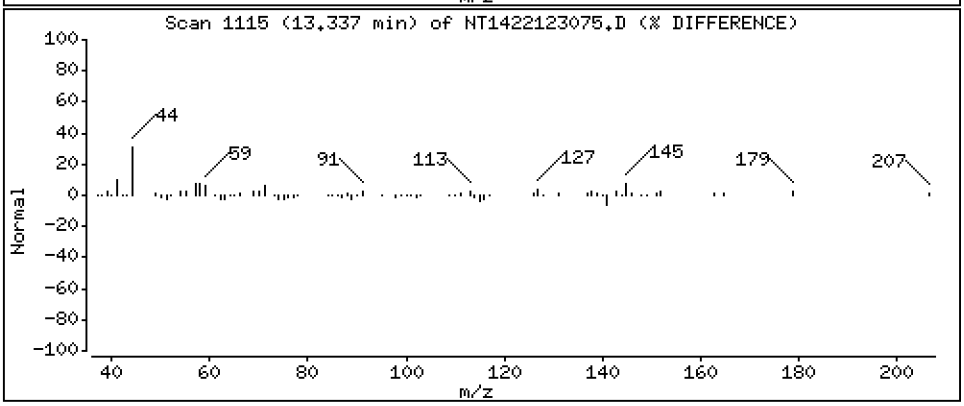












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Date : 01-JAN-2023 04:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-01

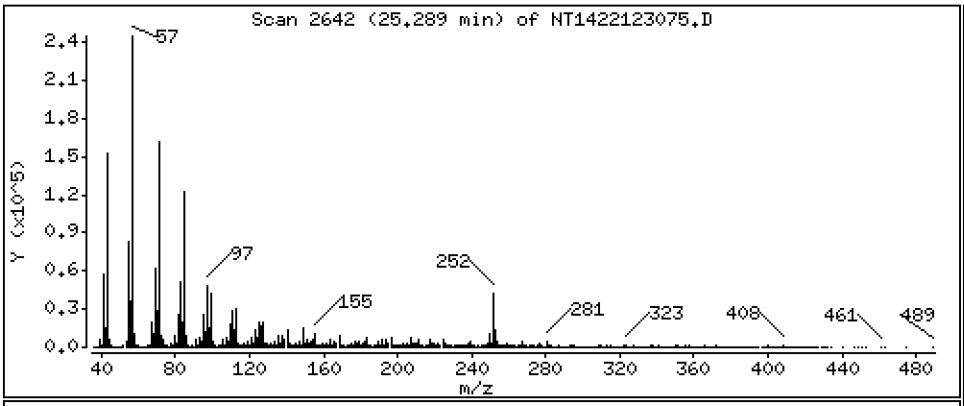
Operator: VTS

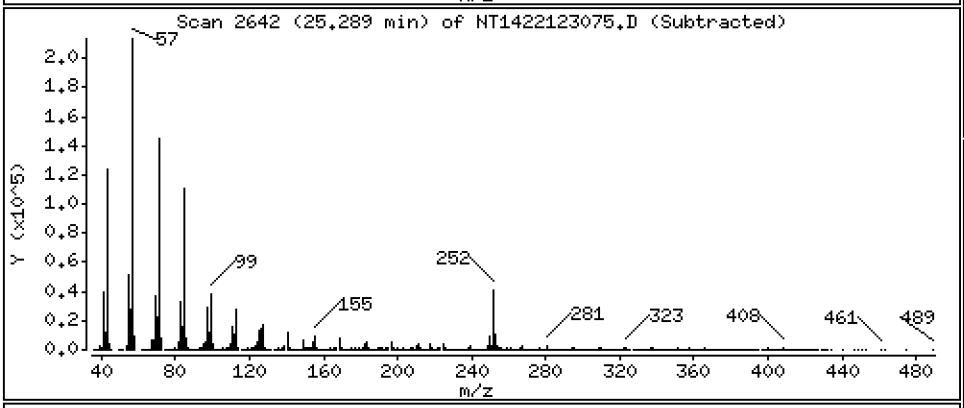
Column phase: ZB-5msi

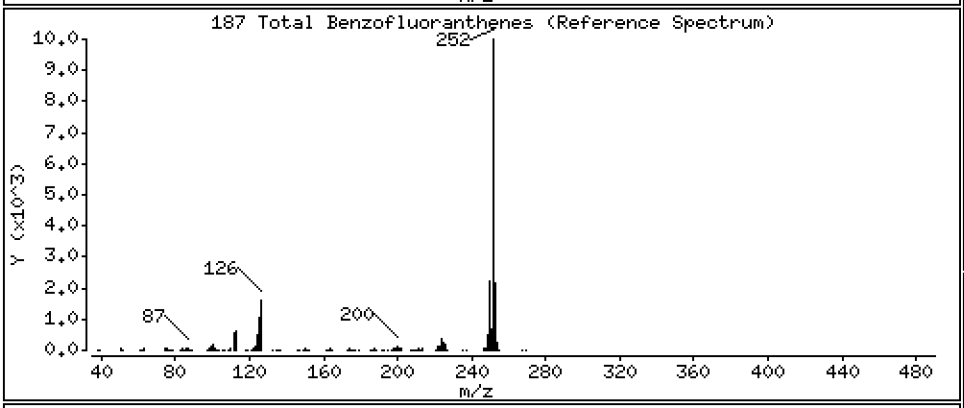
Column diameter: 0.25

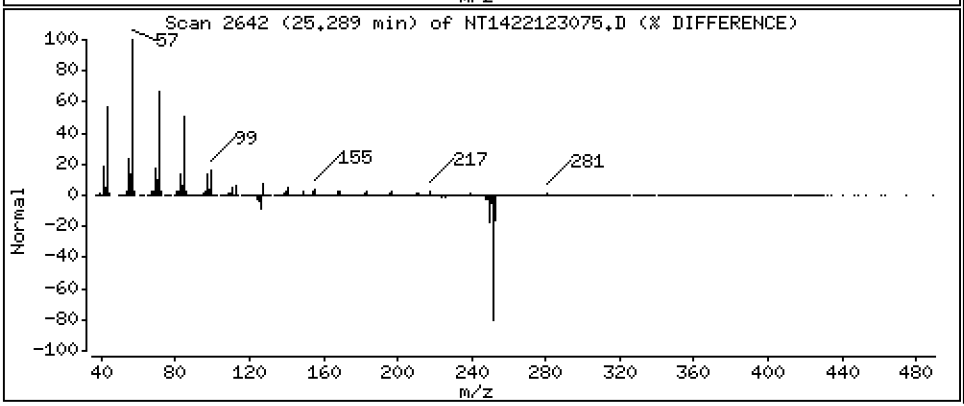
187 Total Benzofluoranthenes

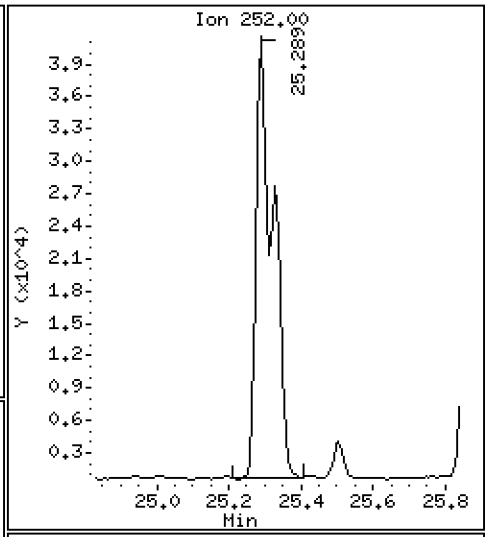
Concentration: 2.148 ug/mL

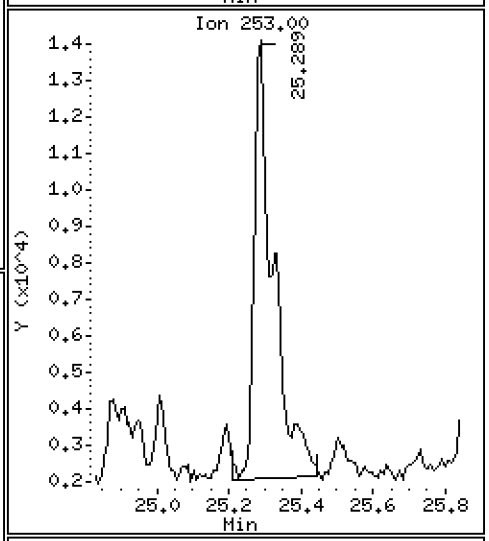


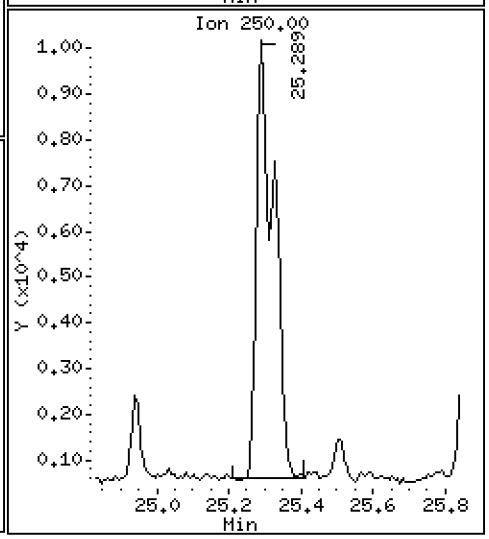












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230C.b\NT1422123075.D
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Inj Date : 01-JAN-2023 04:53 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : 22L0136-01
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 46
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.927	6.919	(0.756)	151371	5.43229	5.432
$	2 Phenol-d5	99	8.519	8.519	(0.930)	194252	5.64094	5.641
	3 Phenol	94	8.534	8.542	(0.932)	3470	0.08868	0.08868
$	5 2-Chlorophenol-d4	132	8.797	8.797	(0.960)	171457	5.92847	5.928
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	9.160	9.160	(1.000)	86977	4.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	9.525	9.525	(1.040)	70814	3.58247	3.582
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	9.447	9.440	(1.031)	2587	0.14851	0.1485
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13 2-Methylphenol	108	9.665	9.665	(1.055)	539	0.01896	0.01896
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	9.936	9.936	(1.085)	1150	0.03834	0.03834
$	18 Nitrobenzene-d5	82	10.255	10.262	(0.879)	115131	4.31425	4.314
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	11.085	11.209	(0.950)	5294	0.31432	0.3143(M)
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	11.665	11.673	(1.000)	316023	4.00000	
	28 Naphthalene	128	11.704	11.712	(1.003)	6649	0.08549	0.08549
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	142	13.112	13.120	(1.124)	4580	0.08028	0.08028
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	13.893	13.901	(0.908)	231189	4.35919	4.359
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	14.791	14.799	(0.967)	1715	0.03855	0.03855
	40	Acenaphthylene	152	14.985	14.993	(0.979)	2701	0.03926	0.03926
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	15.302	15.310	(1.000)	157738	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	15.371	15.371	(1.005)	1759	0.04122	0.04122
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	15.696	15.704	(1.026)	4427	0.06919	0.06919
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	16.253	16.268	(1.062)	30912	0.51125	0.5112
	49	Fluorene	166	16.407	16.423	(1.072)	3546	0.05209	0.05209
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55	2,4,6-Tribromophenol	330	16.947	16.955	(1.108)	51966	6.78149	6.781
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	18.353	18.361	(1.000)	264591	4.00000	
	60	Phenanthrene	178	18.400	18.408	(1.003)	41969	0.60836	0.6084
	61	Anthracene	178	18.493	18.500	(1.008)	11165	0.16953	0.1695
	62	Carbazole	167	18.818	18.825	(1.025)	7246	0.11381	0.1138
	63	Di-n-butylphthalate	149	19.607	19.614	(1.068)	2742	0.03820	0.03820
	64	Fluoranthene	202	20.783	20.791	(0.888)	122344	1.72598	1.726
	65	Pyrene	202	21.208	21.216	(0.906)	113071	1.51716	1.517
$	66	Terphenyl-d14	244	21.487	21.495	(0.918)	222794	4.21598	4.216
	67	Butylbenzylphthalate	149	22.400	22.408	(0.957)	3336	0.11872	0.1187
	68	Benzo(a)anthracene	228	23.368	23.376	(0.999)	37964	0.56927	0.5693
*	69	Chrysene-d12	240	23.399	23.399	(1.000)	220146	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	23.438	23.446	(1.002)	63836	1.01338	1.013
	72	bis(2-Ethylhexyl)phthalate	149	23.423	23.430	(0.959)	156133	3.59731	3.597
*	134	Di-n-octylphthalate-d4	153	24.421	24.421	(1.000)	390811	4.00000	
	73	Di-n-octylphthalate	149	24.437	24.429	(1.001)	18616	0.19844	0.1984
	74	Benzo(b)fluoranthene	252	25.288	25.296	(0.969)	83957	1.28627	1.286
	75	Benzo(k)fluoranthene	252	25.327	25.335	(0.971)	62112	0.93495	0.9350(M)
	76	Benzo(a)pyrene	252	25.970	25.970	(0.995)	41979	0.77366	0.7737
*	77	Perylene-d12	264	26.094	26.086	(1.000)	207692	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.846	28.838	(1.105)	21819	0.35373	0.3537
	79	Dibenzo(a,h)anthracene	278	28.853	28.853	(1.106)	4784	0.09127	0.09127
	80	Benzo(g,h,i)perylene	276	29.669	29.653	(1.137)	20206	0.39104	0.3910
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	Compound Not Detected.					
	105	1-methylnaphthalene	142	13.336	13.344	(1.143)	4162	0.07593	0.07593
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.288	25.335	(0.969)	135523	2.14762	2.148
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123075.D
Lab Smp Id: 22L0136-01
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Misc Info:

Calibration Date: 31-DEC-2022
Calibration Time: 23:30
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138755	69378	277510	86977	-37.32
27 Naphthalene-d8	501723	250862	1003446	316023	-37.01
42 Acenaphthene-d10	275234	137617	550468	157738	-42.69
59 Phenanthrene-d10	440085	220043	880170	264591	-39.88
69 Chrysene-d12	384795	192398	769590	220146	-42.79
134 Di-n-octylphthala	674530	337265	1349060	390811	-42.06
77 Perylene-d12	336665	168333	673330	207692	-38.31

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	-0.07
42 Acenaphthene-d10	15.31	14.81	15.81	15.30	-0.05
59 Phenanthrene-d10	18.36	17.86	18.86	18.35	-0.04
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.42	0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	0.03

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

REVIEW SUMMARY FOR FILE - NT1422123075.D

Lab ID: 22L0136-01
nt14.i, 20221230C.b\ABN.m,   01-JAN-2023 04:53

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.950	0.960	-0.0100	Benzoic acid

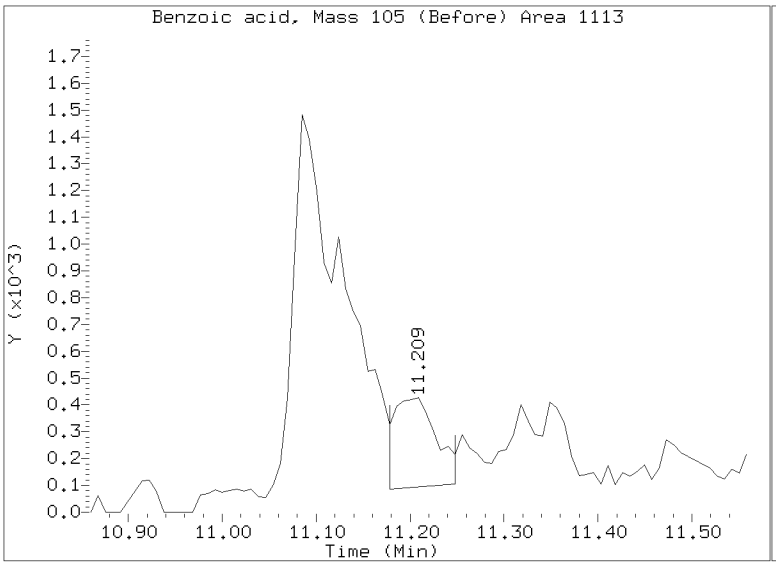
RRT check based on Ccal File: NT1422123066.D

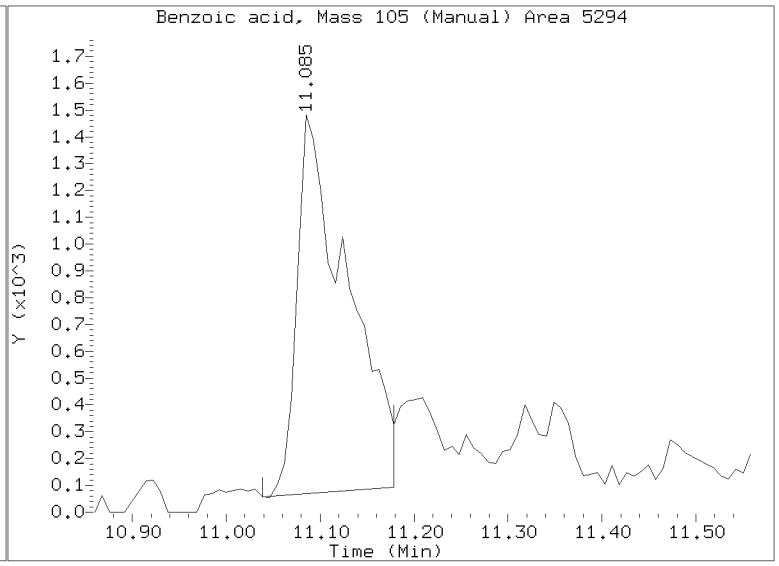
On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

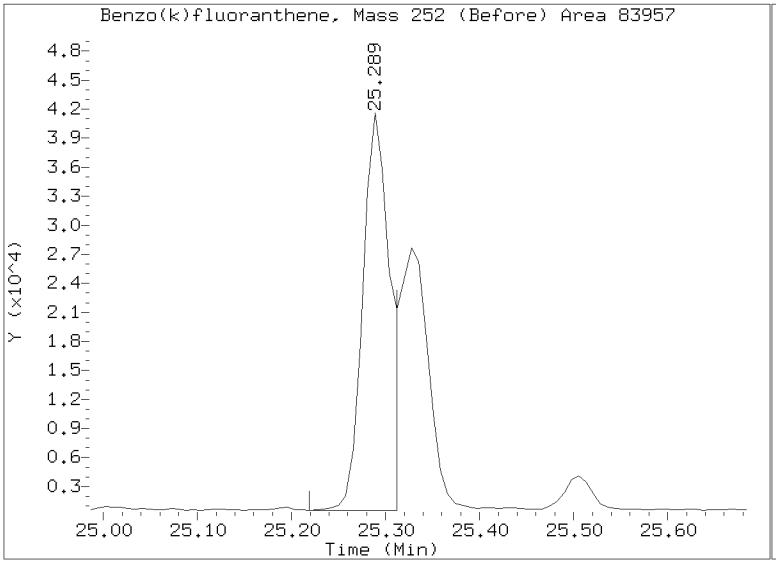
* Only compounds listed in the work order have been verified by the analyst *

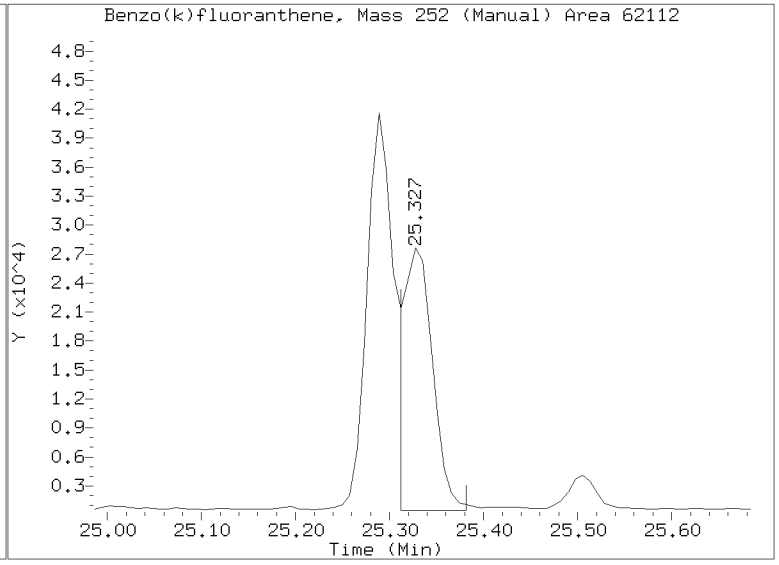
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230C.b/NT1422123075.D
Injection Date: 01-JAN-2023 04:53
Lab ID:22L0136-01 Client ID:
Report Date: 01/04/2023 14:25









Analytical Resources, LLC
Analytical Chemists and Consultants

LDW22-SS786

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

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

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-08 A	SDG:	22L0136
Sampled:	12/06/22 12:26	Prepared:	12/09/22 14:39	File ID:	NT1422123076.D
% Solids:	65.93	Preparation:	EPA 3546 (Microwave)	Analyzed:	01/01/23 05:29
Batch:	BKL0193	Sequence:	SKL0355	Initial/Final:	15.18 g Wet / 1 mL
Instrument:	NT14	Column:	ZB-5MS	Calibration:	FL00066
Cleanups:	GPC				

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
108-95-2	Phenol	1	20.0	U	4.4	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
Phenol-d5	749.39	533	71.1	29 - 120	

Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123076.D

Date : 01-JAN-2023 05:29

Client ID:

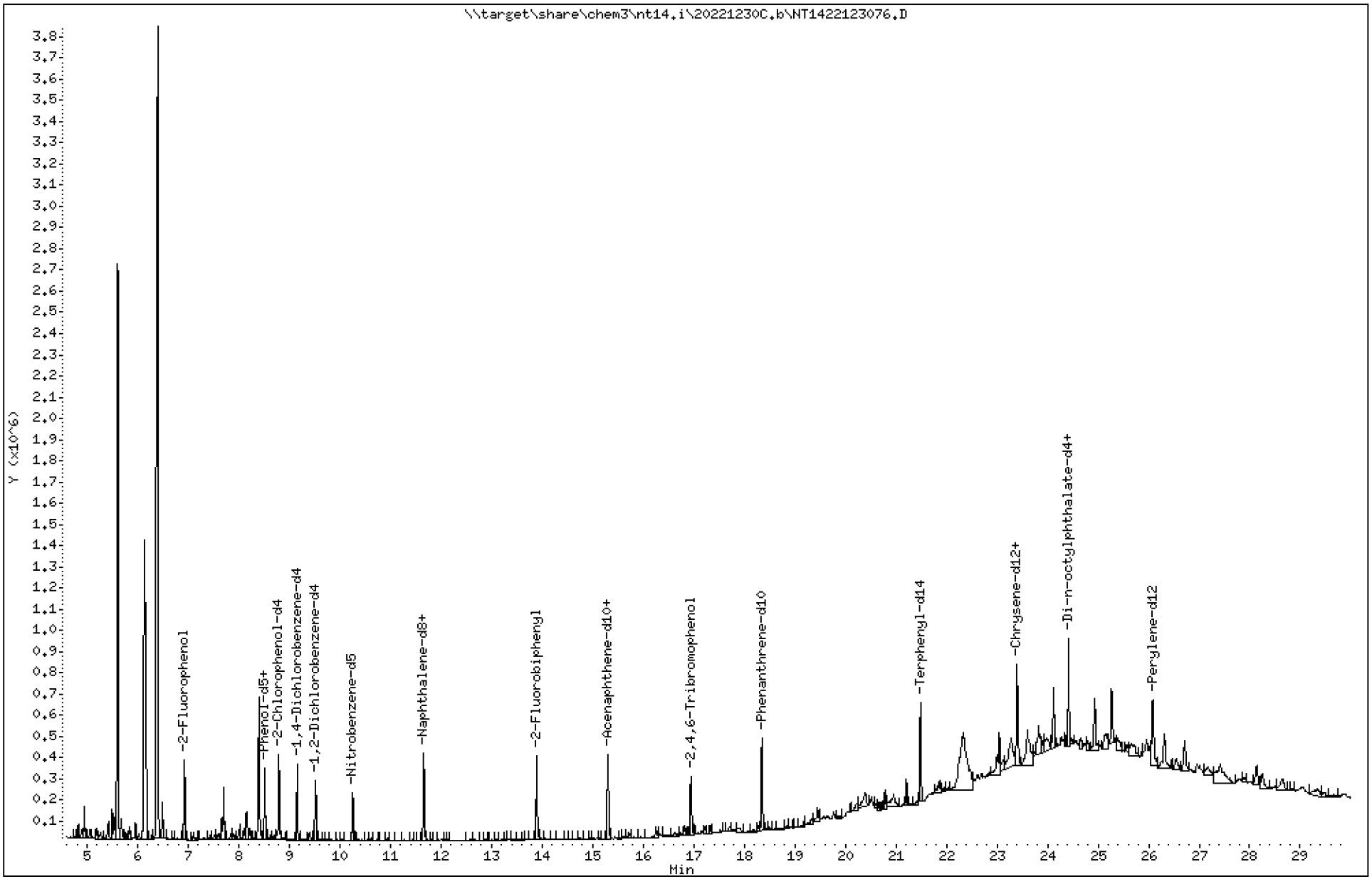
Sample Info: 22L0136-08

Column phase: ZB-5msi

Instrument: nt14.i

Operator: VTS

Column diameter: 0.25



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Date : 01-JAN-2023 05:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-08

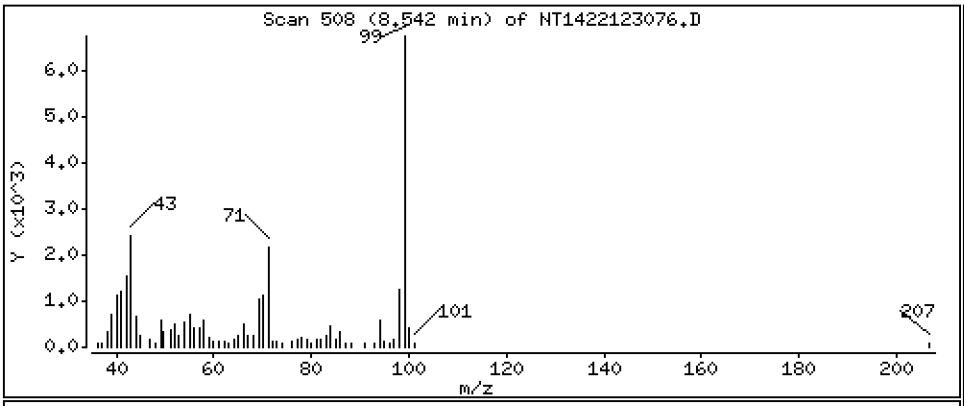
Operator: VTS

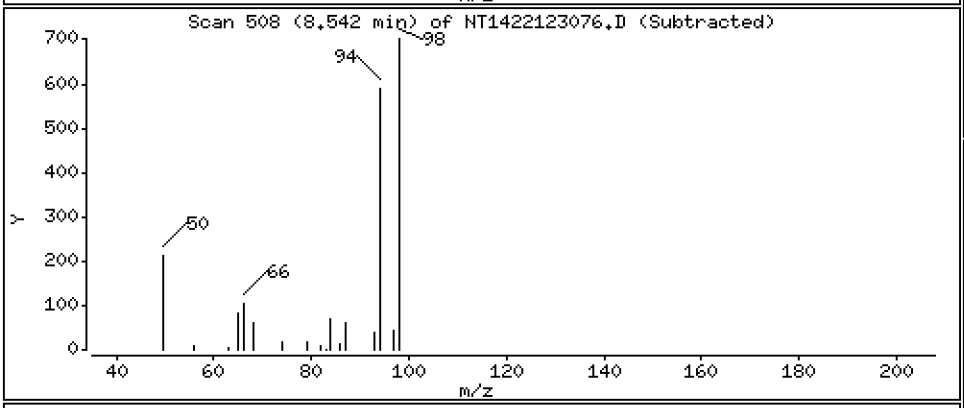
Column phase: ZB-5msi

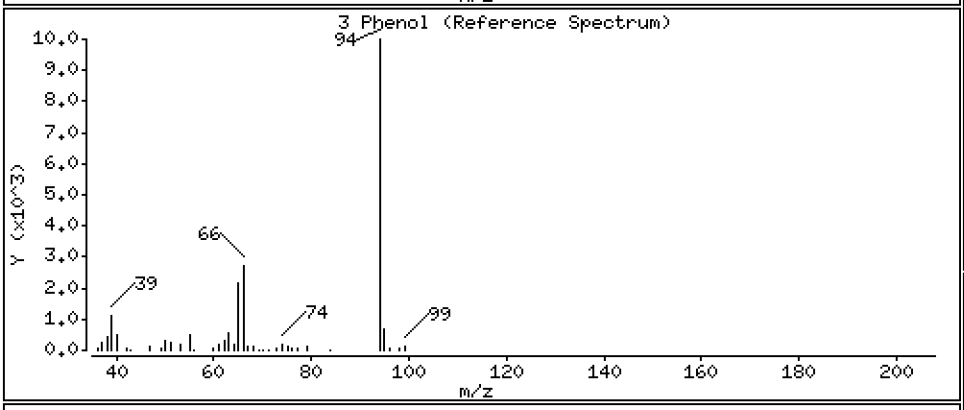
Column diameter: 0.25

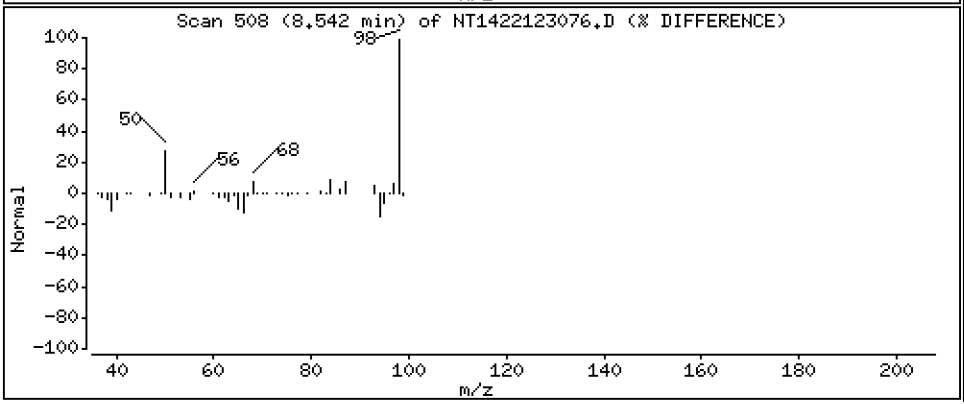
3 Phenol

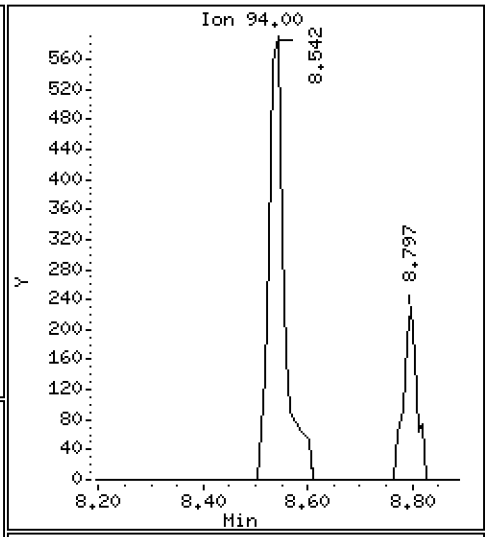
Concentration: 0.02915 ug/mL

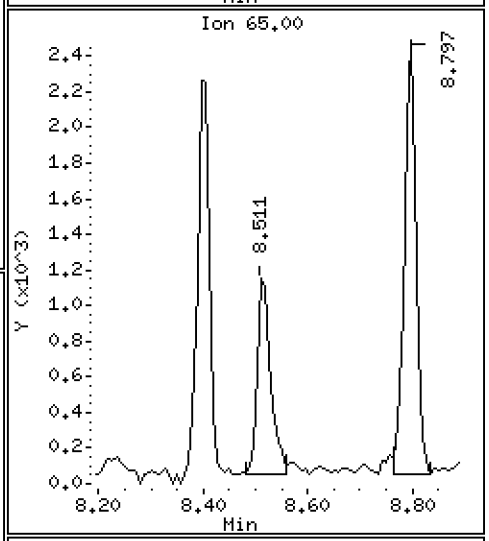


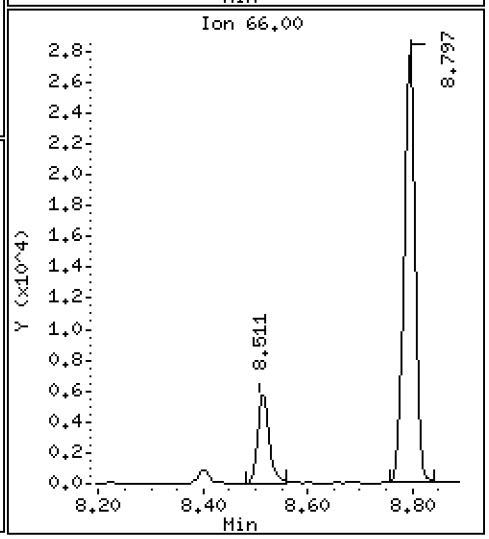












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Date : 01-JAN-2023 05:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-08

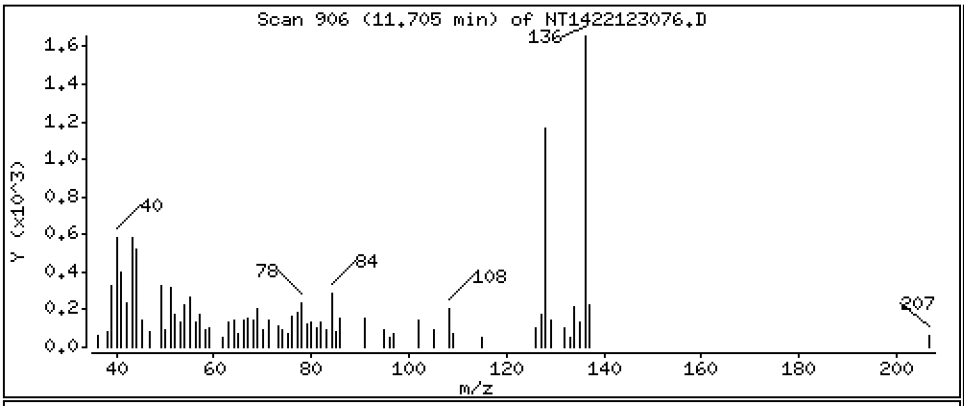
Operator: VTS

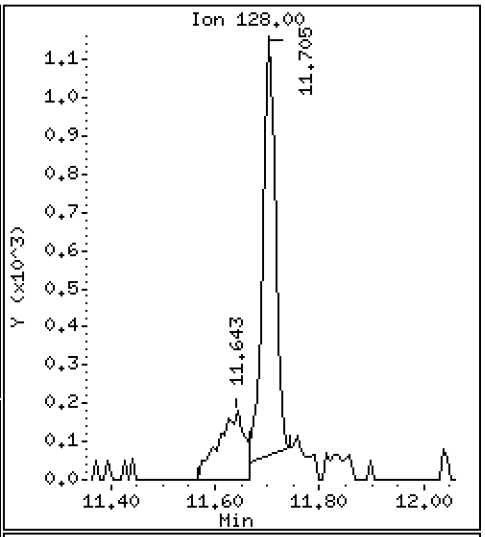
Column phase: ZB-5msi

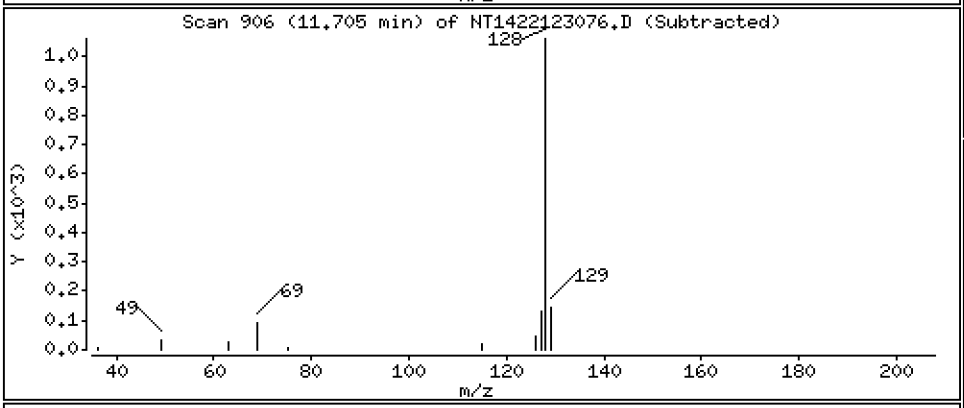
Column diameter: 0.25

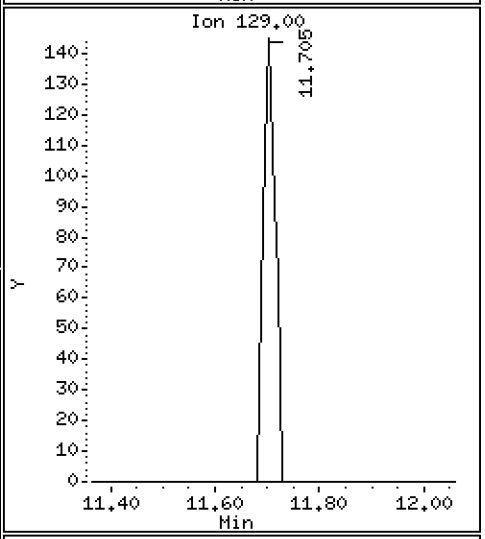
28 Naphthalene

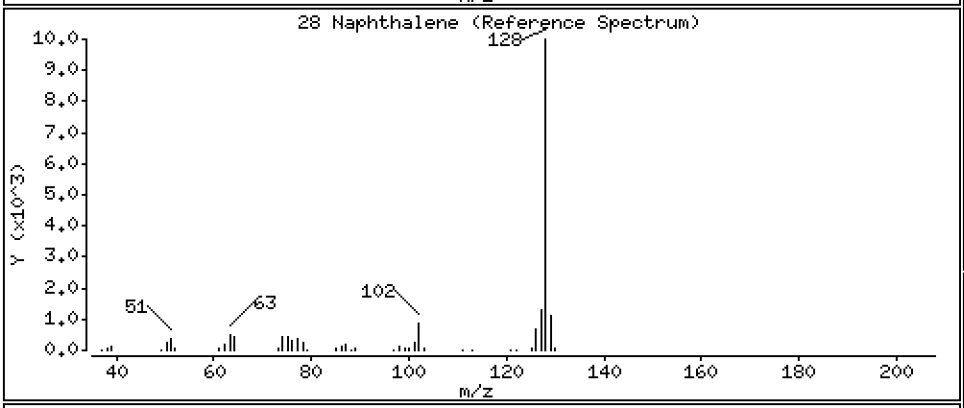
Concentration: 0.02185 ug/mL

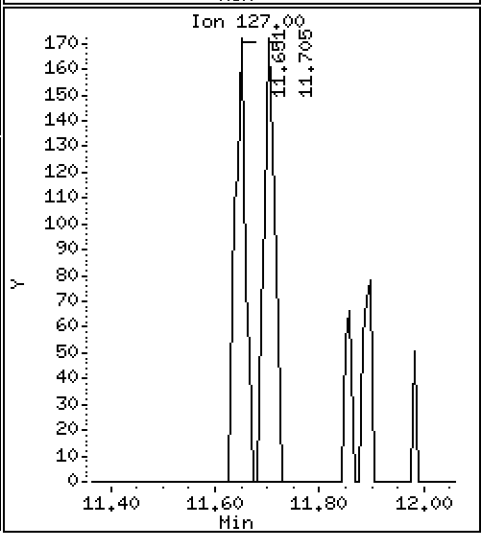


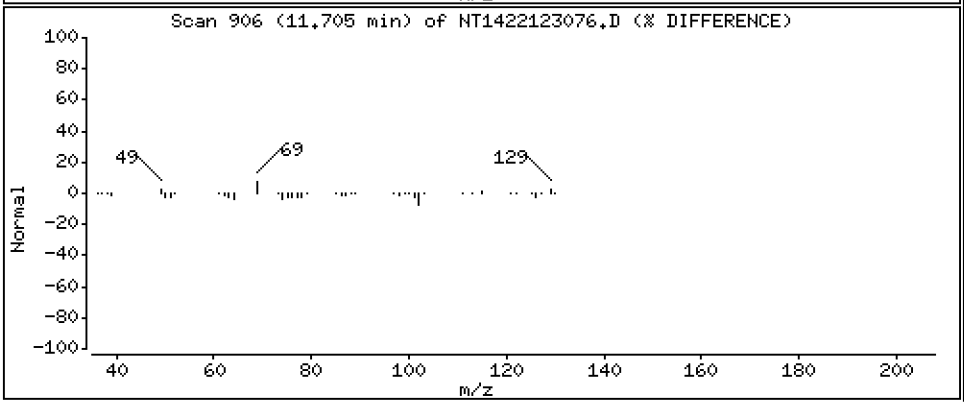












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Date : 01-JAN-2023 05:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-08

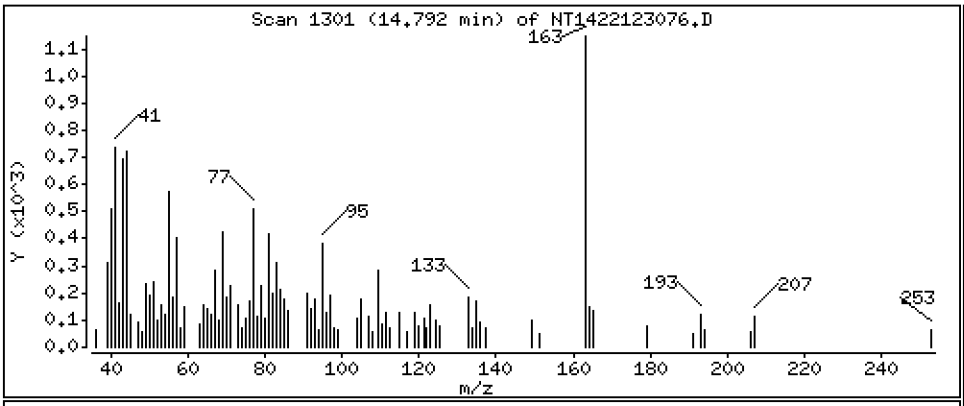
Operator: VTS

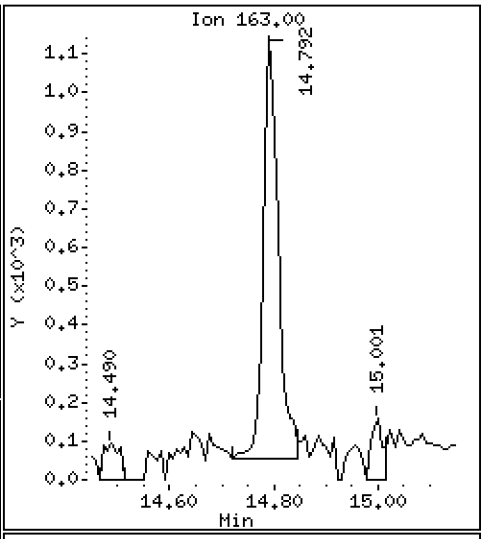
Column phase: ZB-5msi

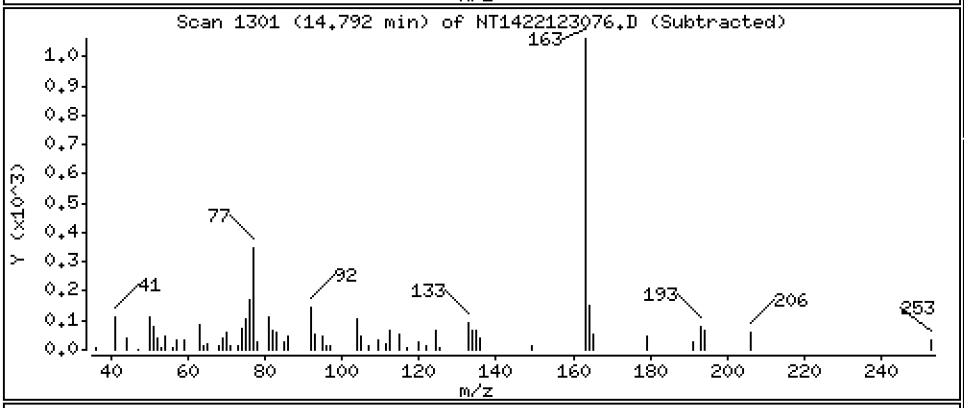
Column diameter: 0.25

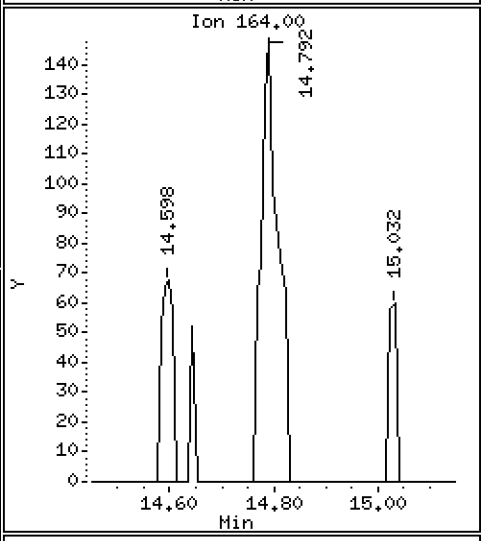
39 Dimethylphthalate

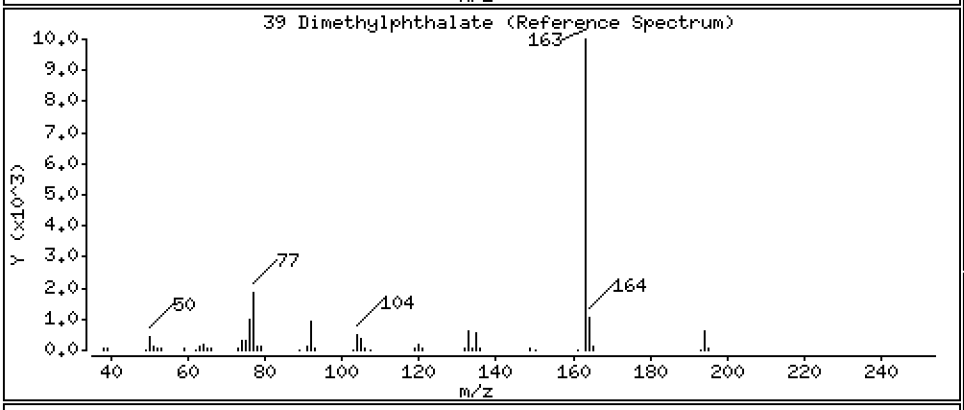
Concentration: 0.04544 ug/mL

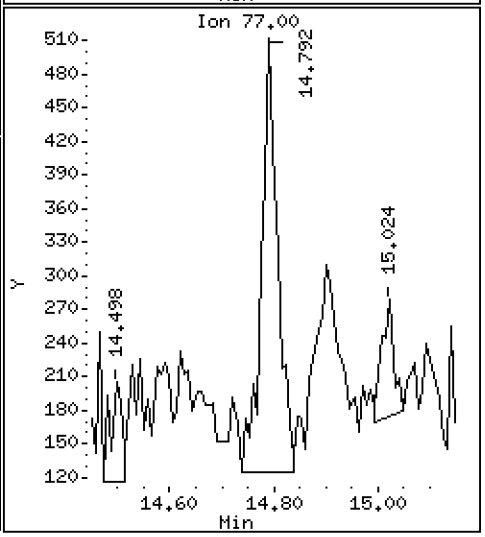


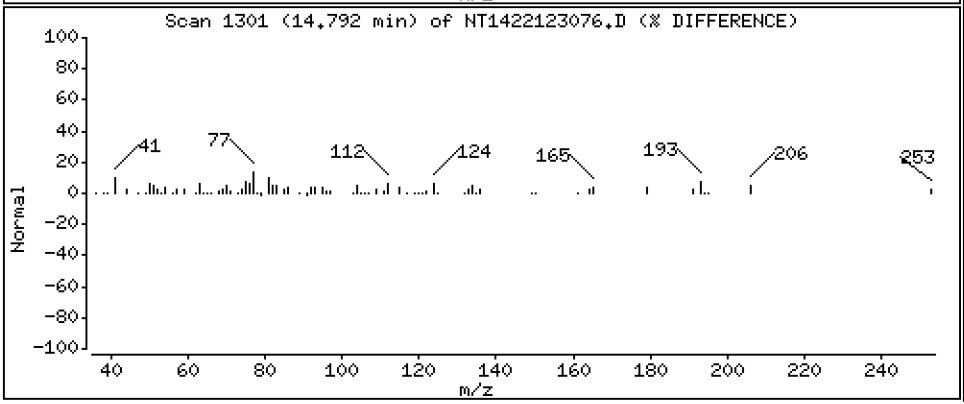












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Date : 01-JAN-2023 05:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-08

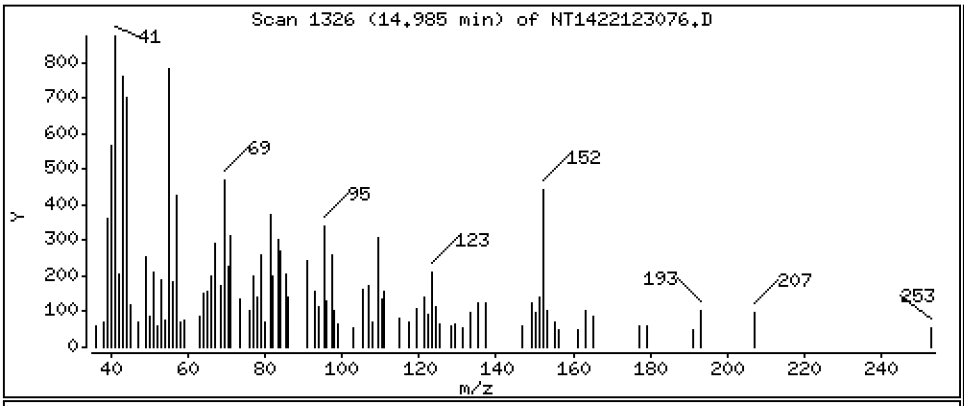
Operator: VTS

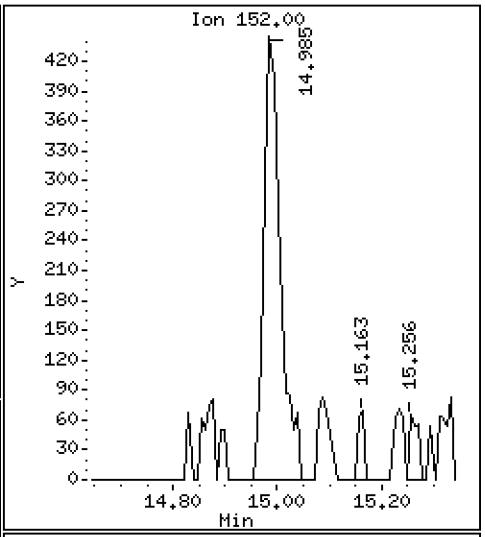
Column phase: ZB-5msi

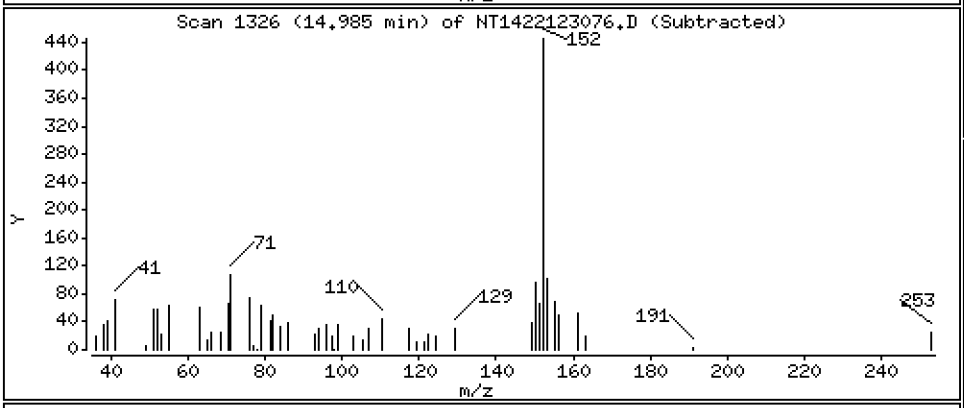
Column diameter: 0.25

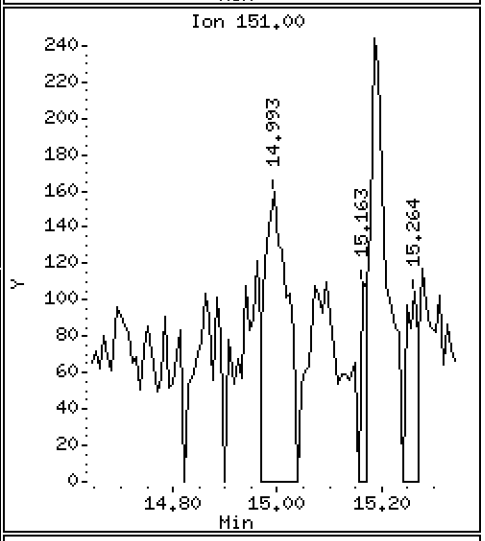
40 Acenaphthylene

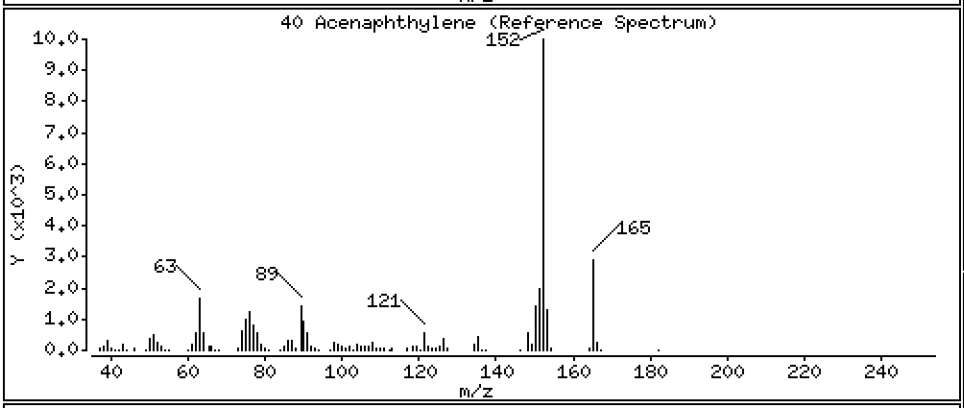
Concentration: 0.01308 ug/mL

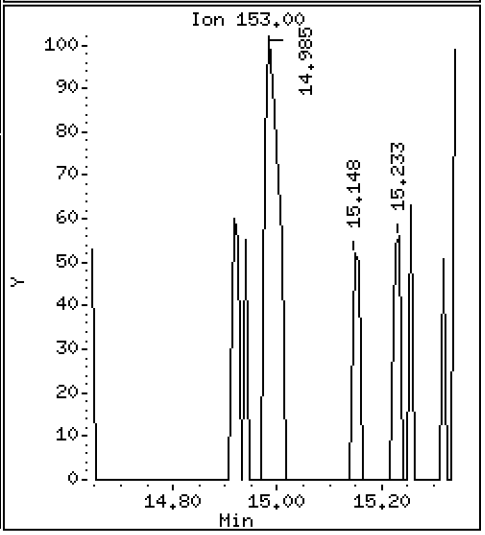


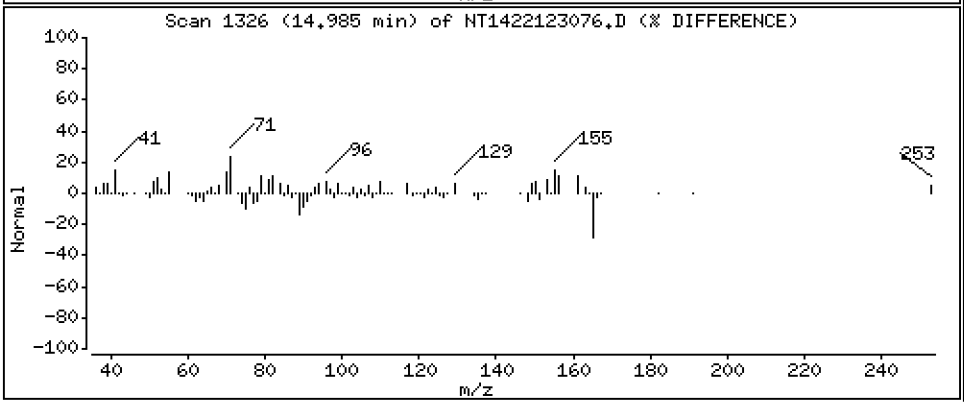












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Date : 01-JAN-2023 05:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-08

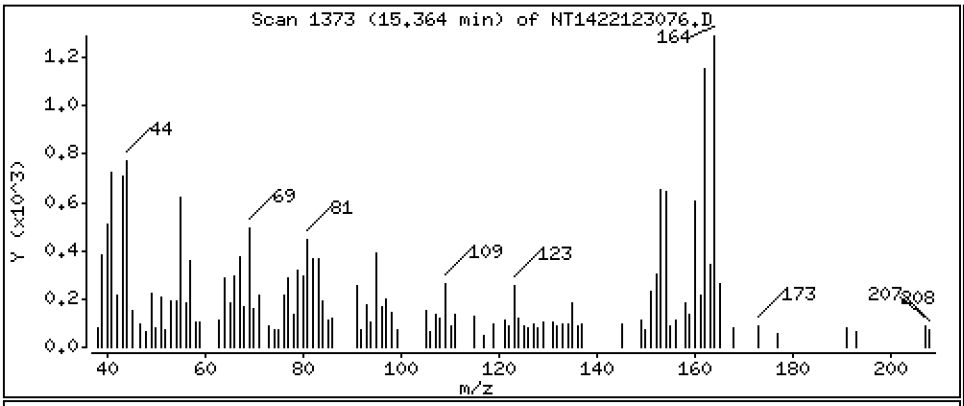
Operator: VTS

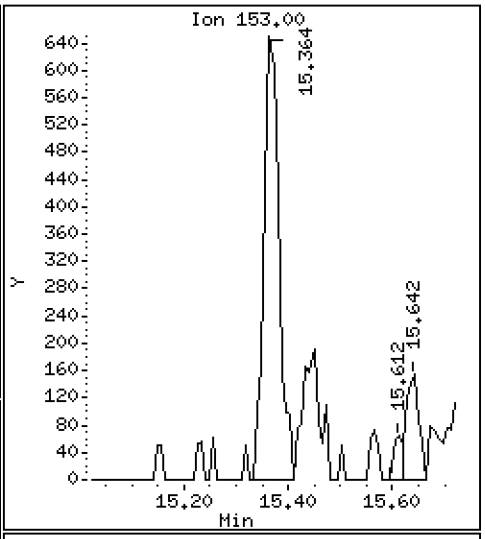
Column phase: ZB-5msi

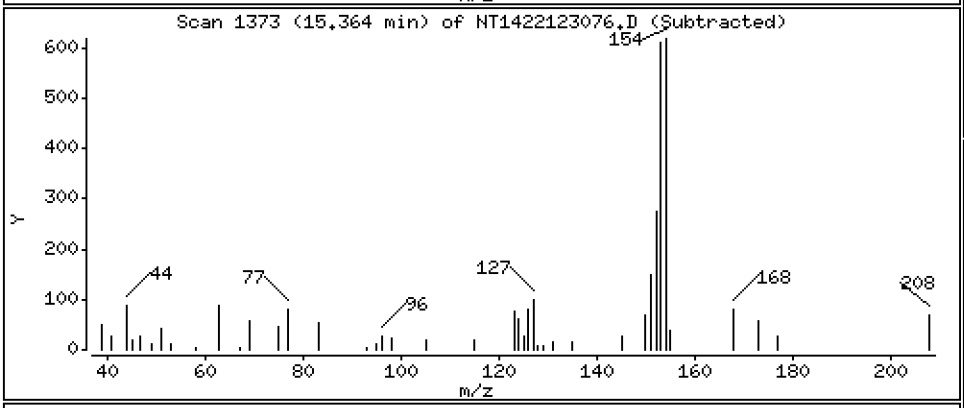
Column diameter: 0.25

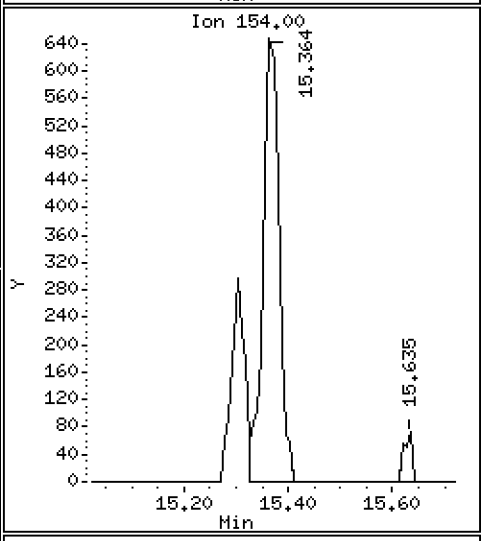
44 Acenaphthene

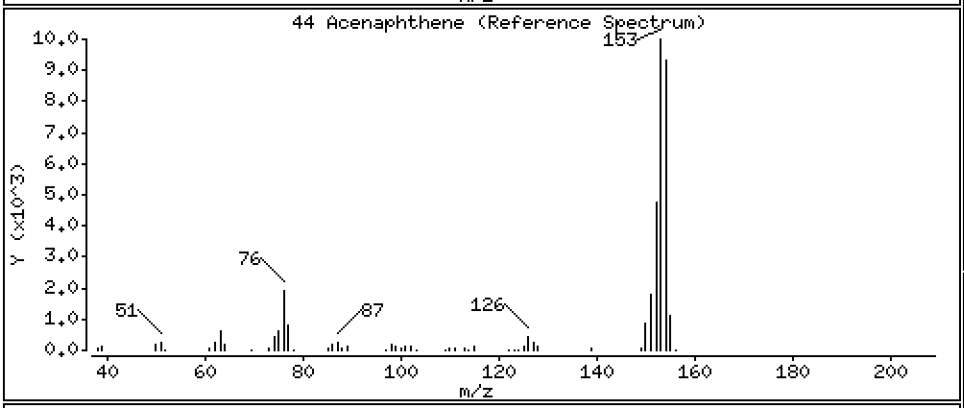
Concentration: 0.02804 ug/mL

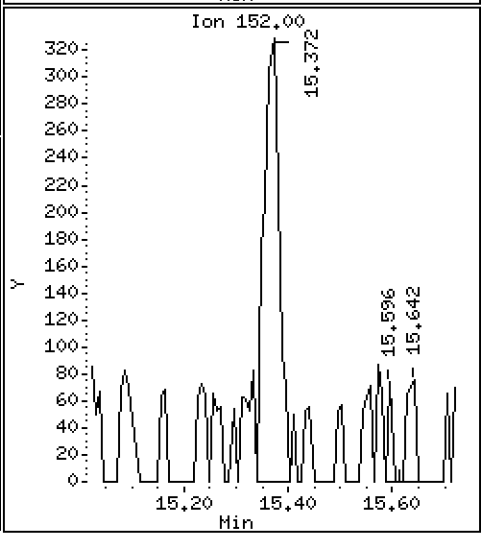


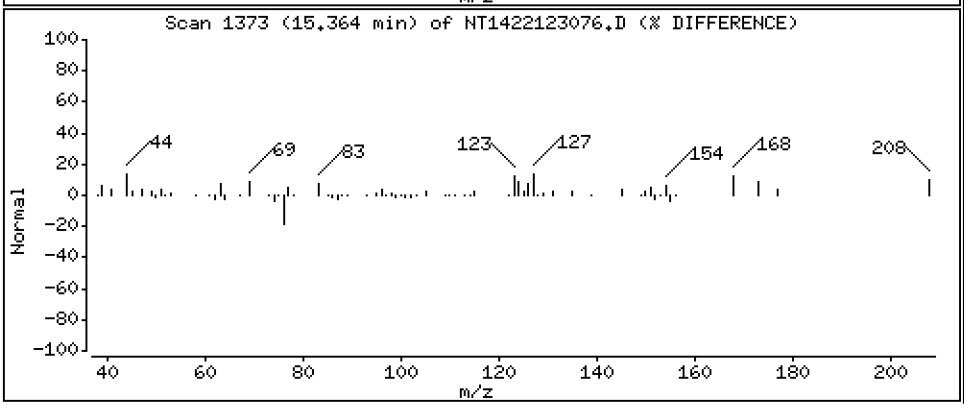












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Date : 01-JAN-2023 05:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-08

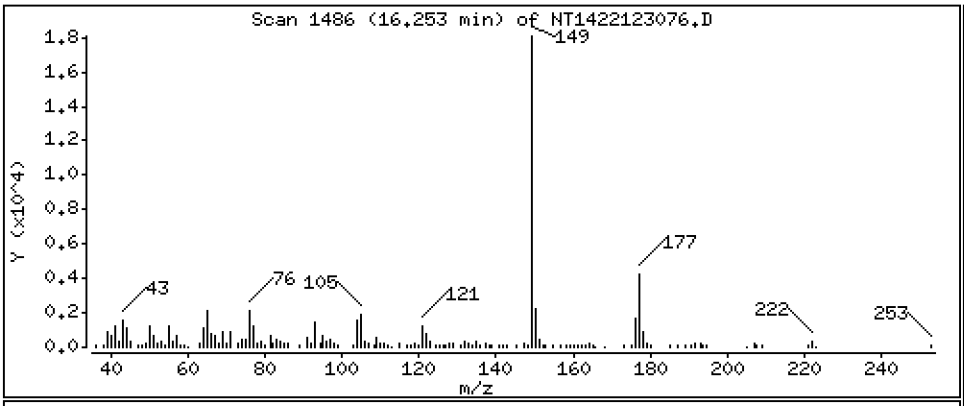
Operator: VTS

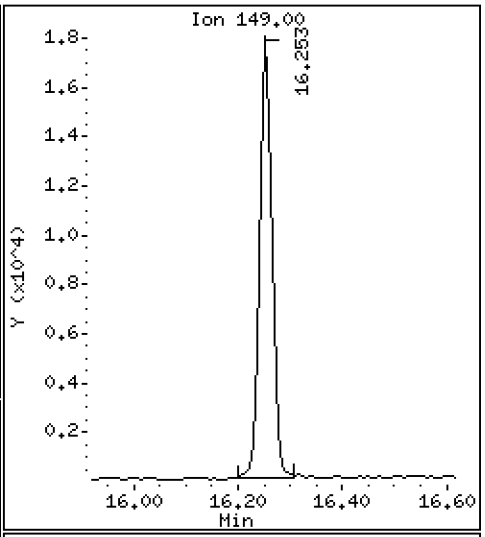
Column phase: ZB-5msi

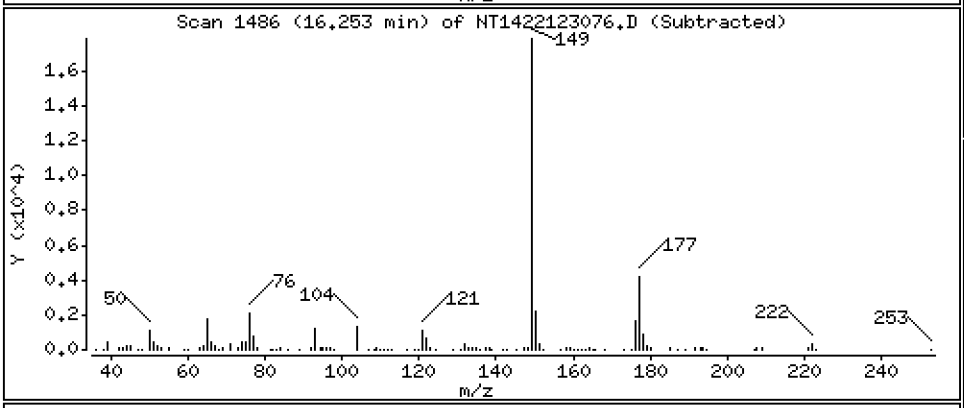
Column diameter: 0.25

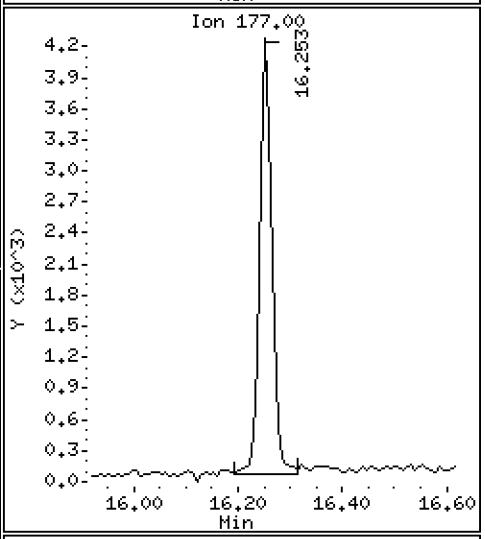
50 Diethylphthalate

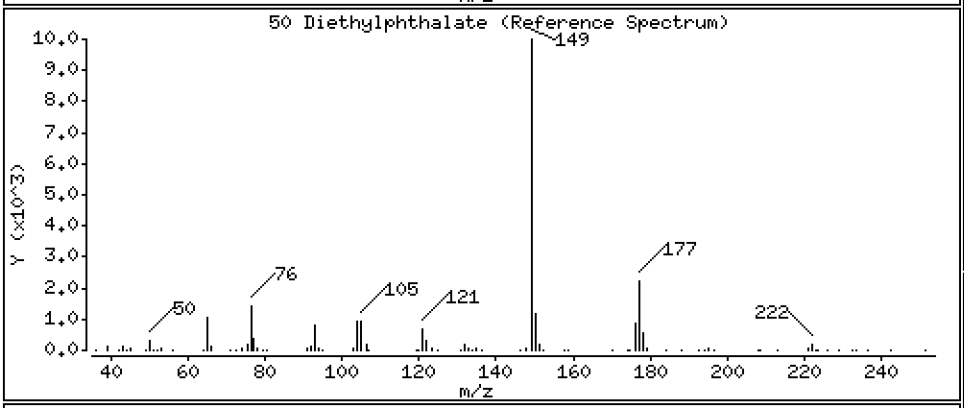
Concentration: 0.5208 ug/mL

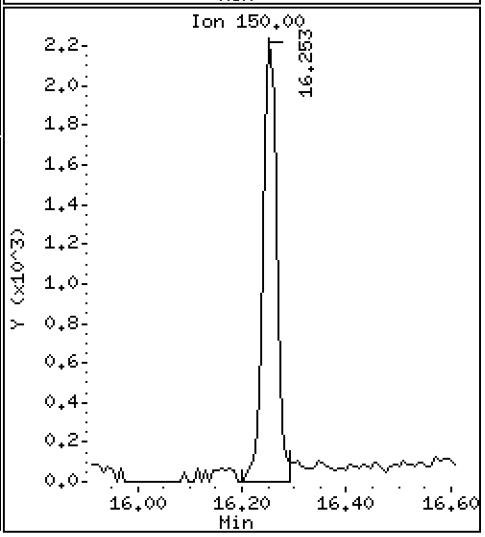


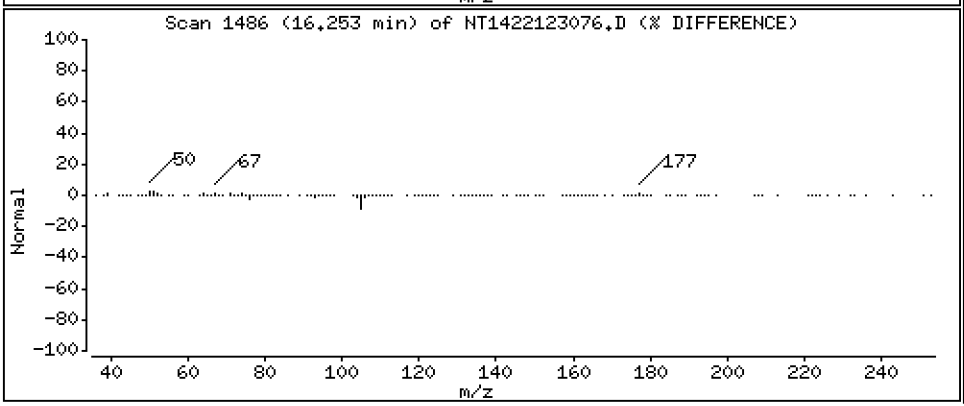












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Date : 01-JAN-2023 05:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-08

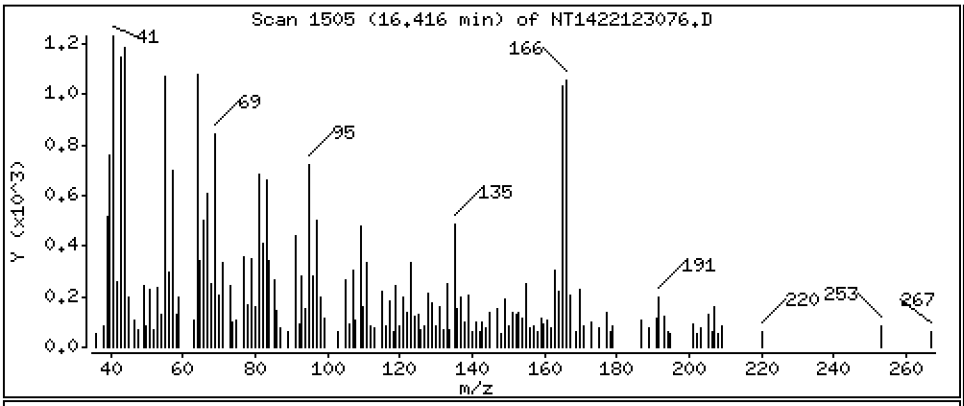
Operator: VTS

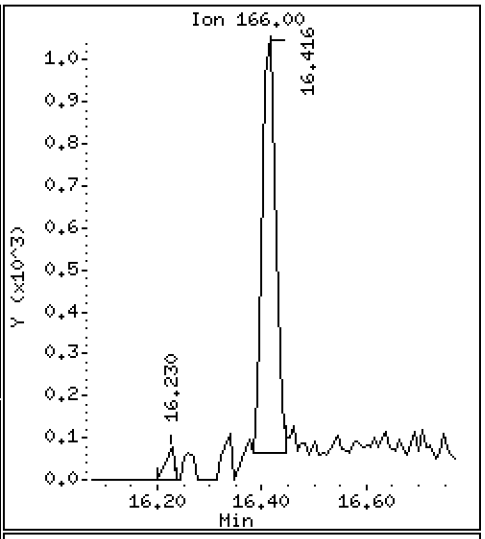
Column phase: ZB-5msi

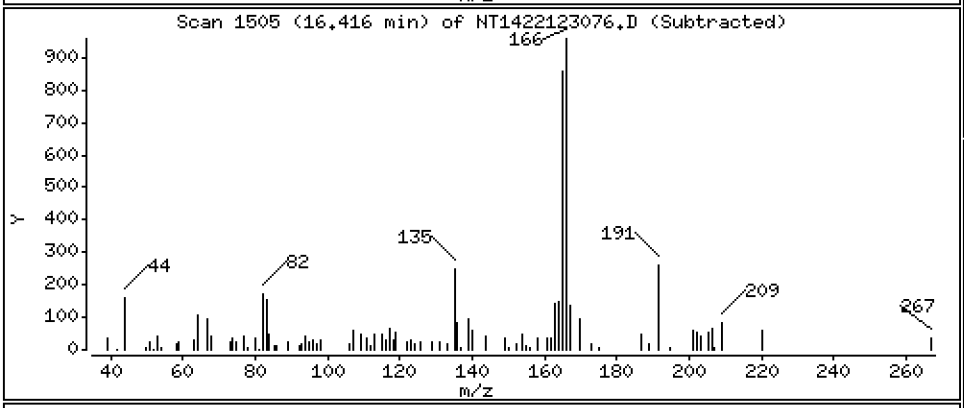
Column diameter: 0.25

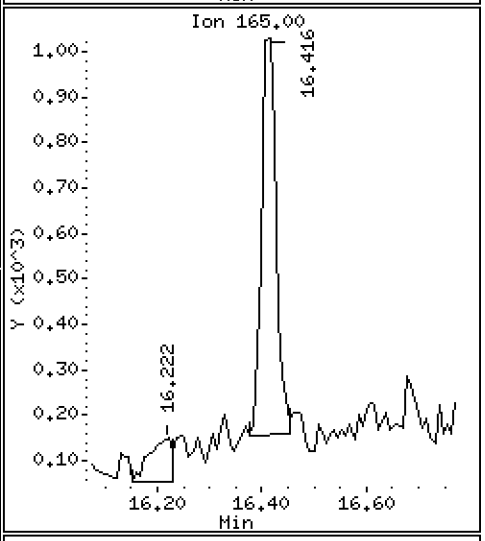
49 Fluorene

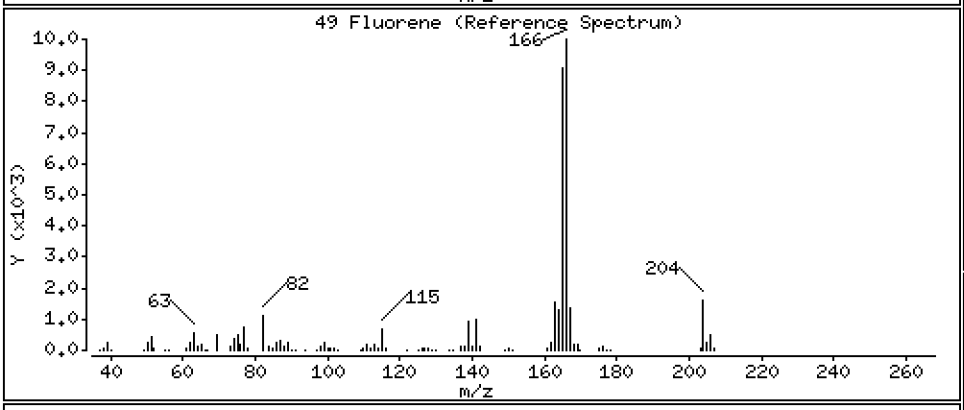
Concentration: 0.02349 ug/mL

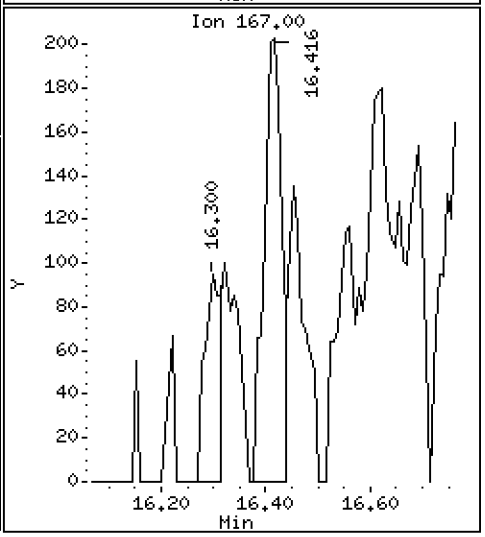


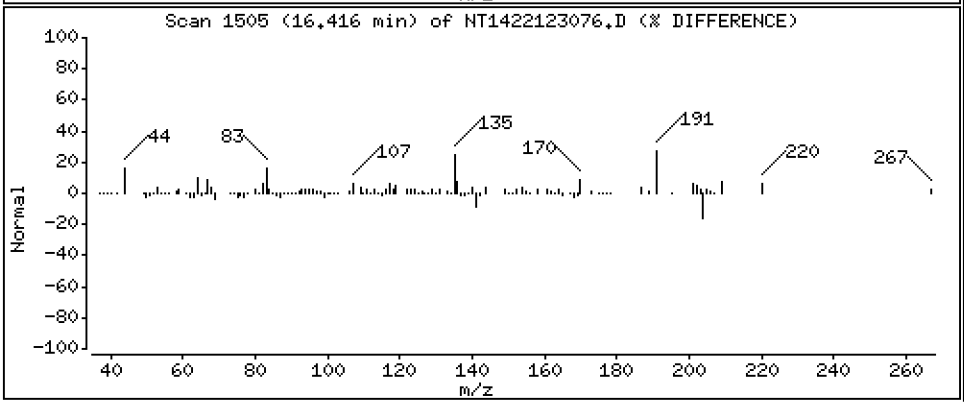












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Date : 01-JAN-2023 05:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-08

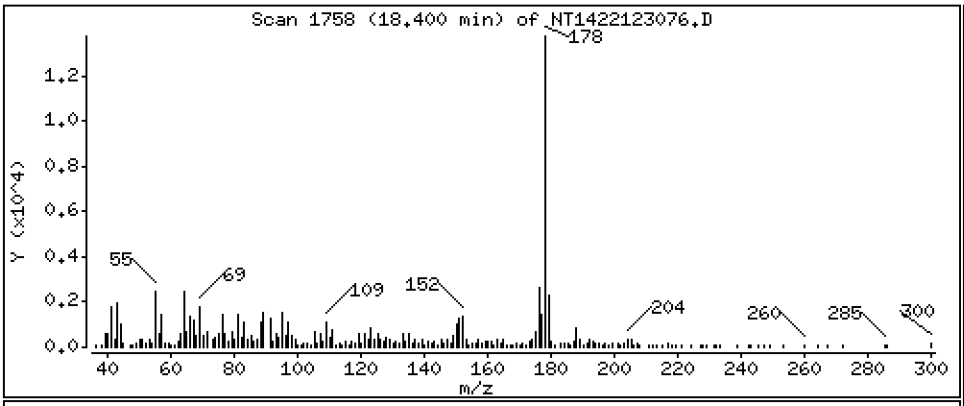
Operator: VTS

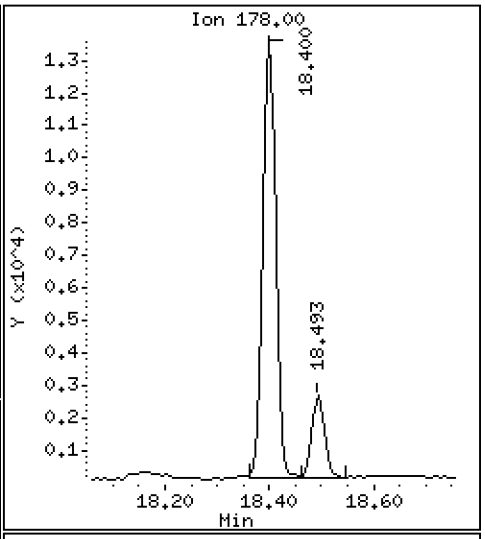
Column phase: ZB-5msi

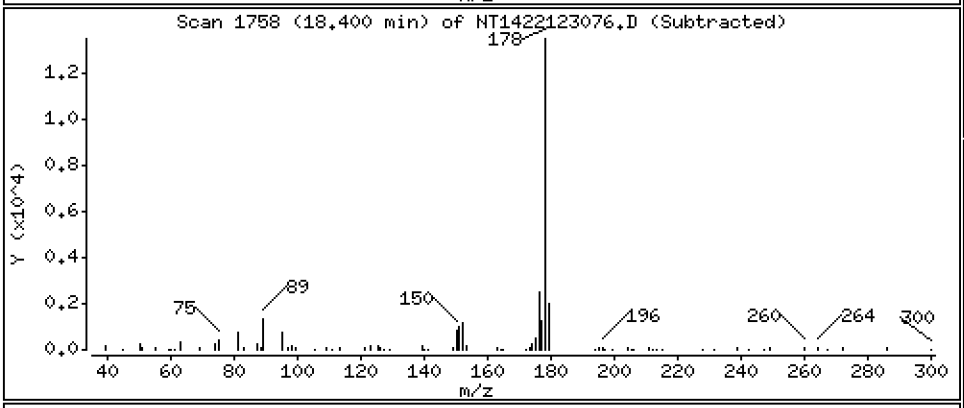
Column diameter: 0.25

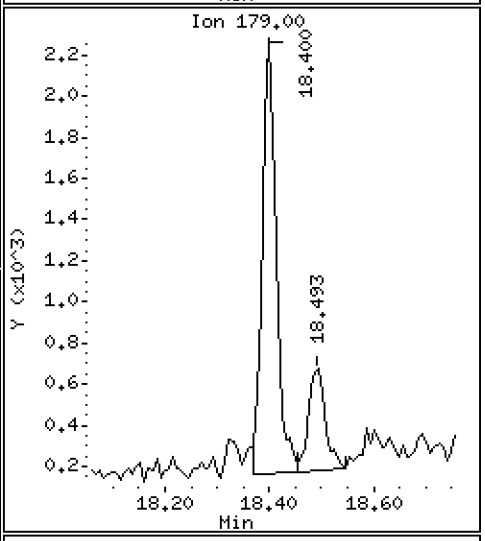
60 Phenanthrene

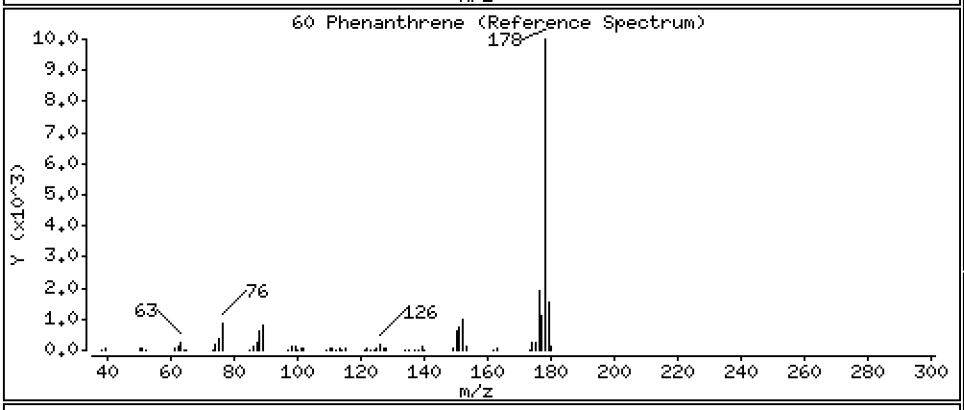
Concentration: 0.3014 ug/mL

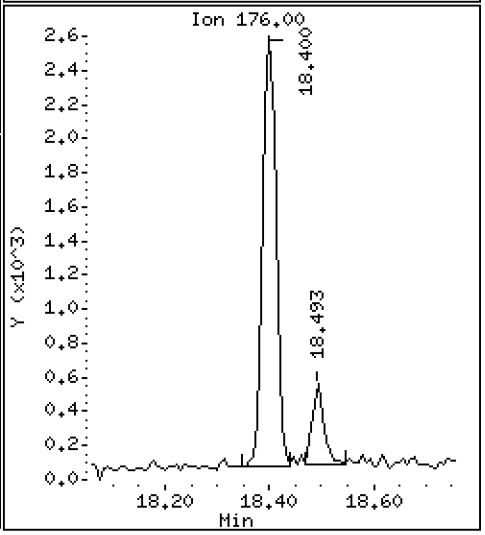


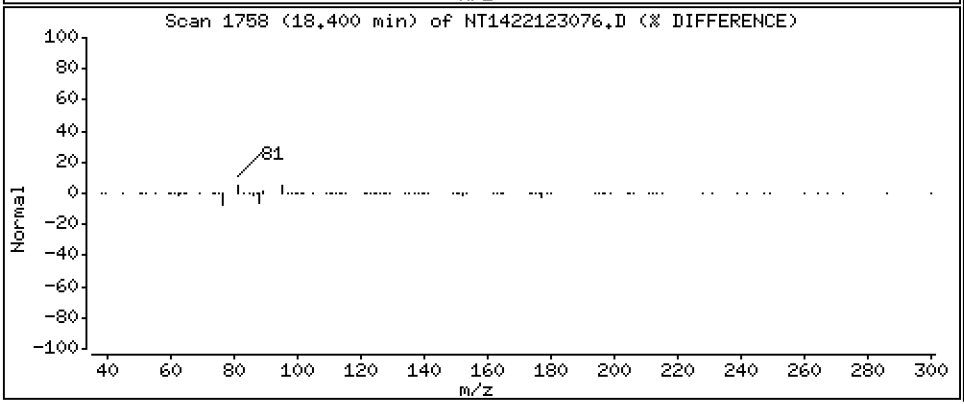












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Date : 01-JAN-2023 05:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-08

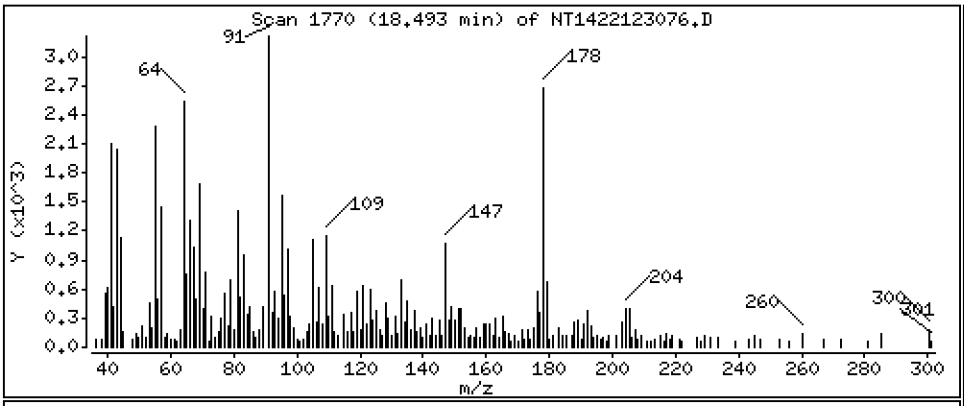
Operator: VTS

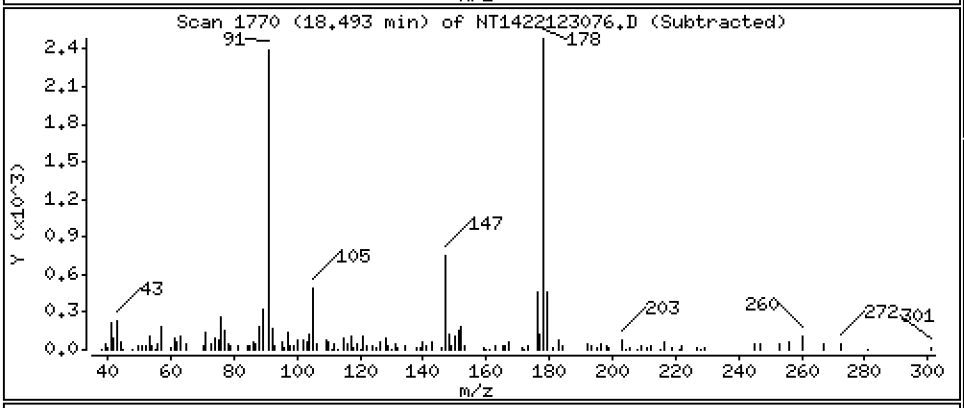
Column phase: ZB-5msi

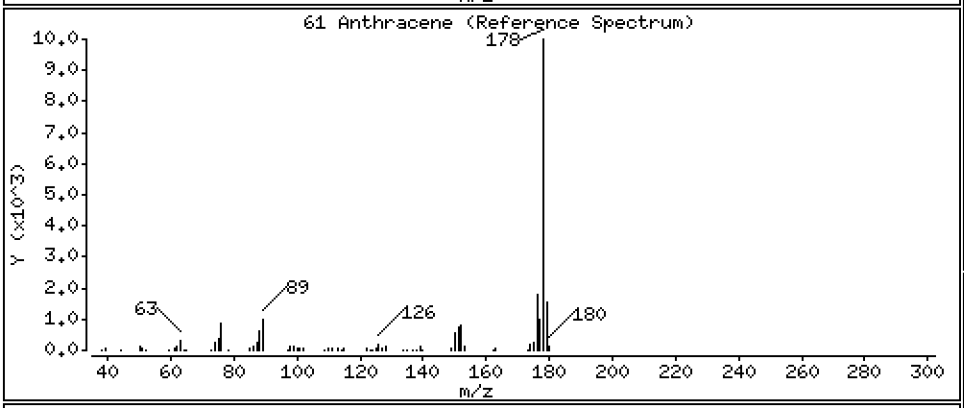
Column diameter: 0.25

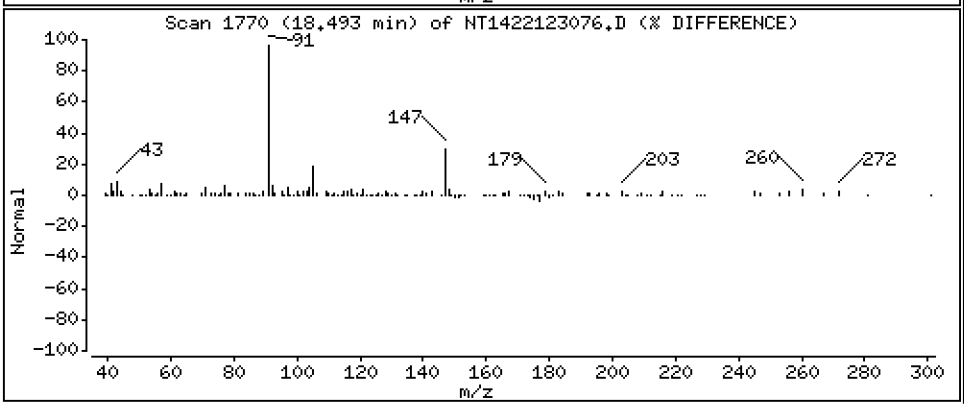
61 Anthracene

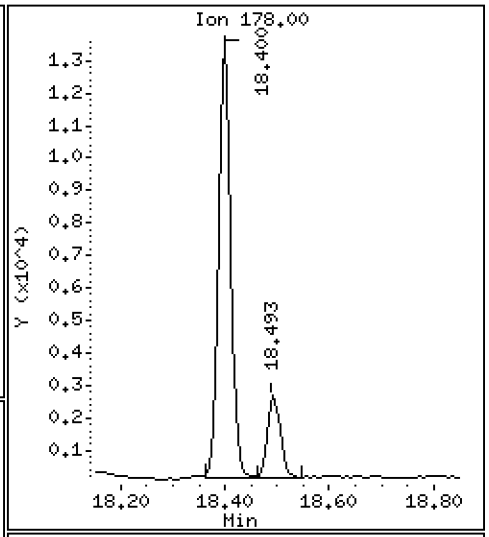
Concentration: 0.05785 ug/mL

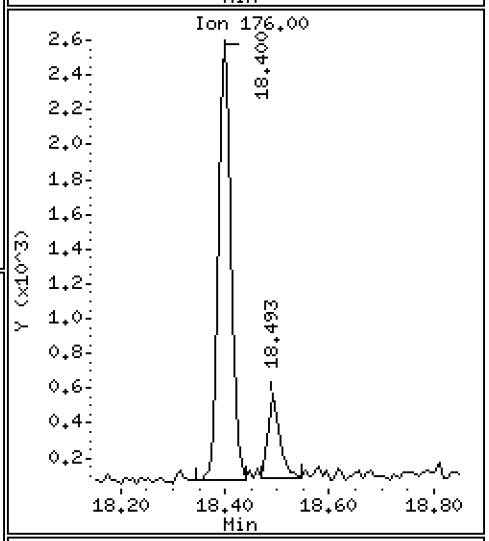


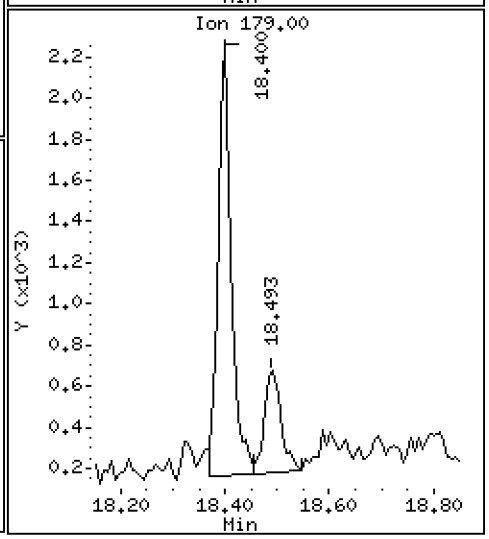












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Date : 01-JAN-2023 05:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-08

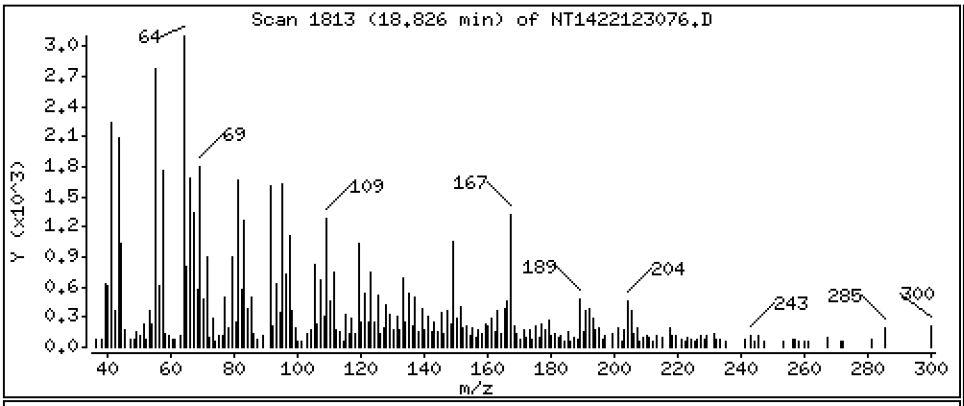
Operator: VTS

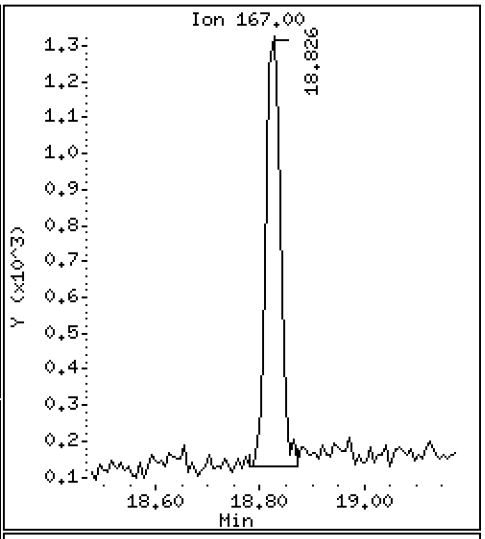
Column phase: ZB-5msi

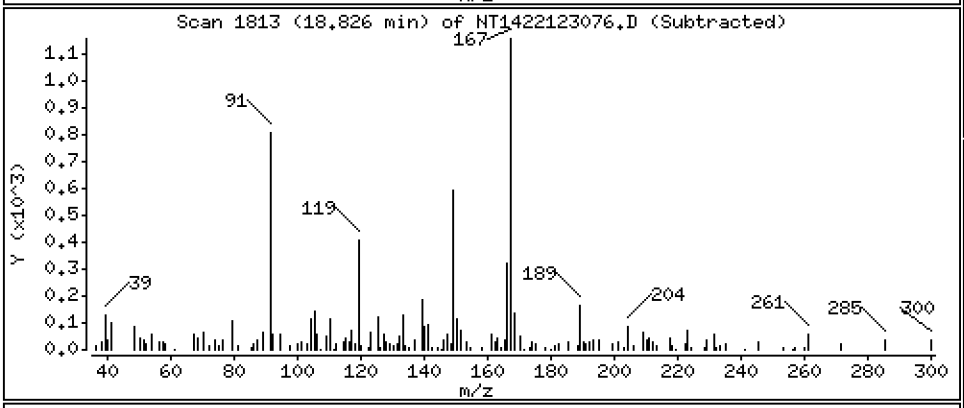
Column diameter: 0.25

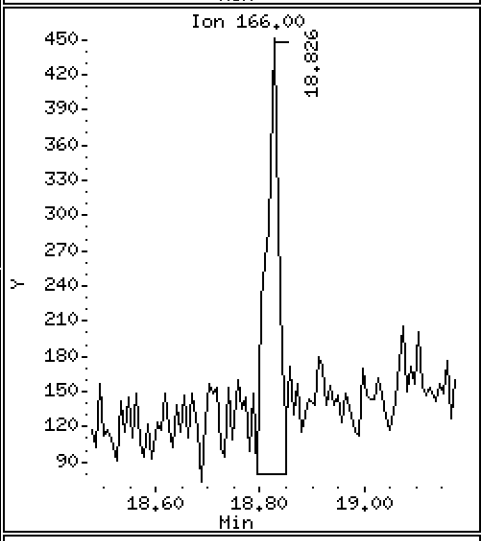
62 Carbazole

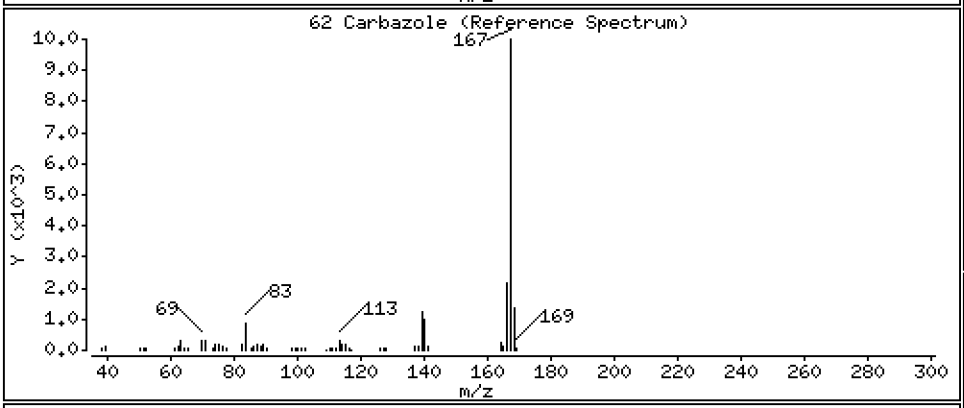
Concentration: 0.03261 ug/mL

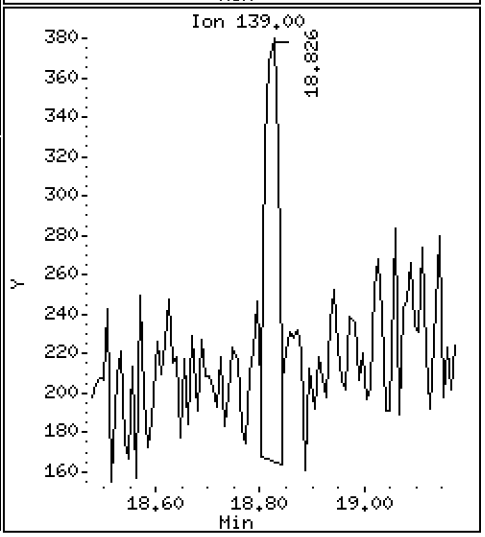


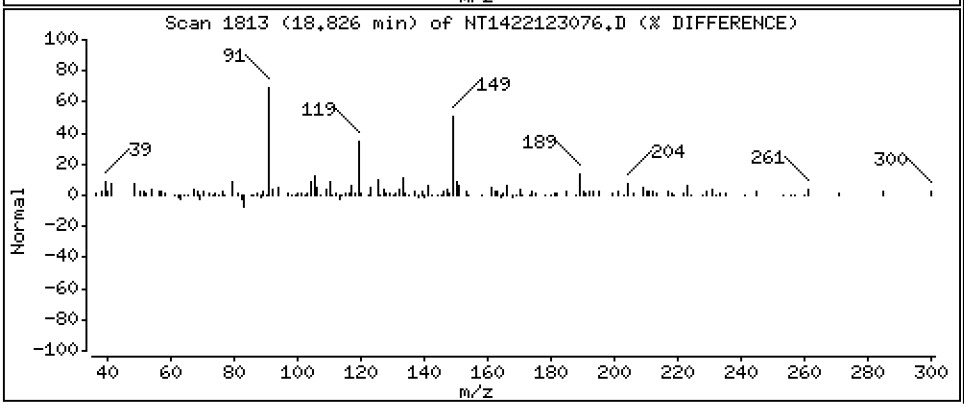












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Date : 01-JAN-2023 05:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-08

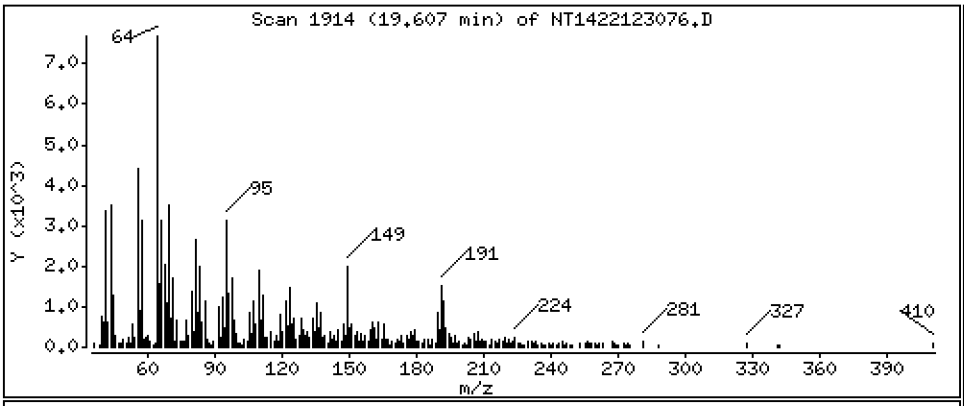
Operator: VTS

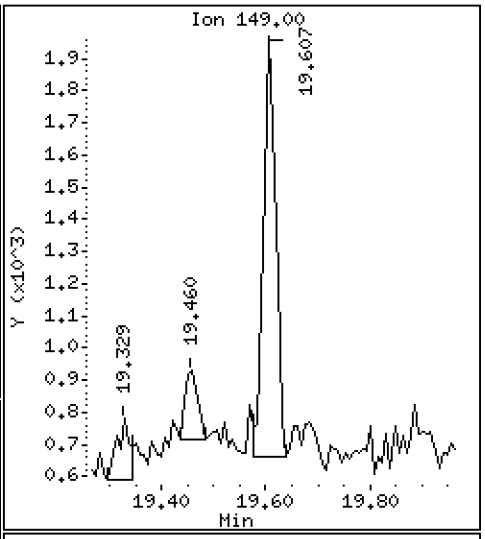
Column phase: ZB-5msi

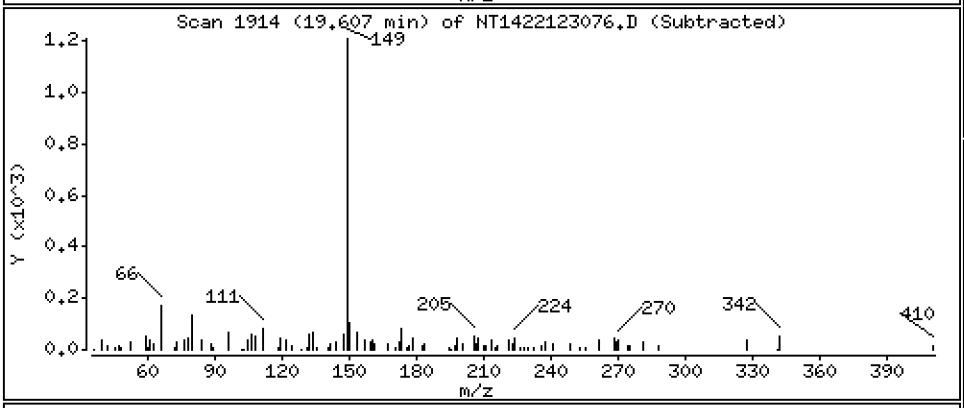
Column diameter: 0.25

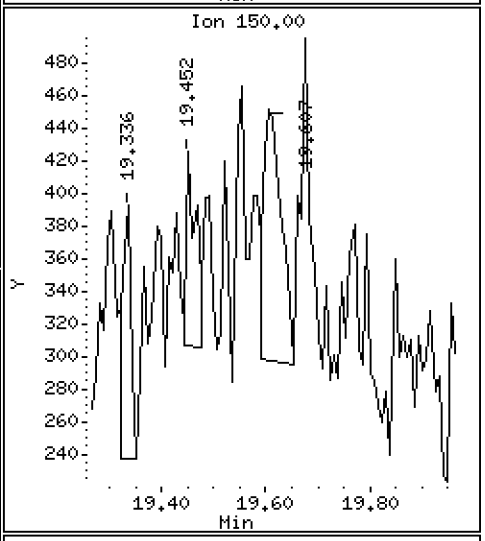
63 Di-n-butylphthalate

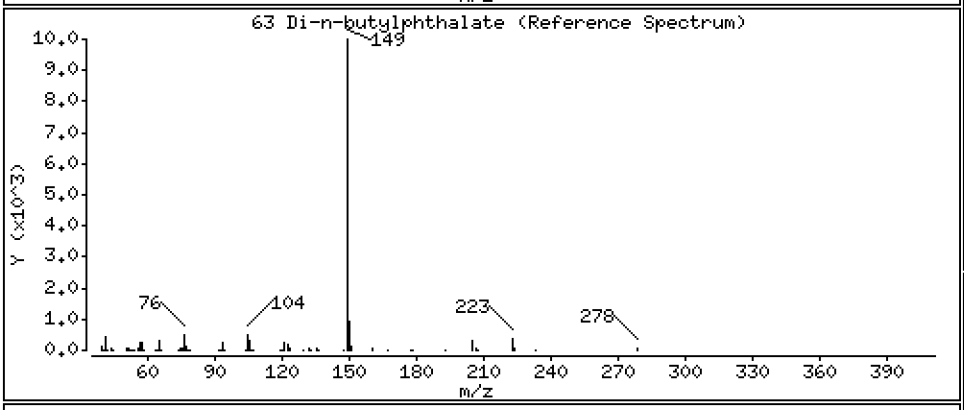
Concentration: 0.02771 ug/mL

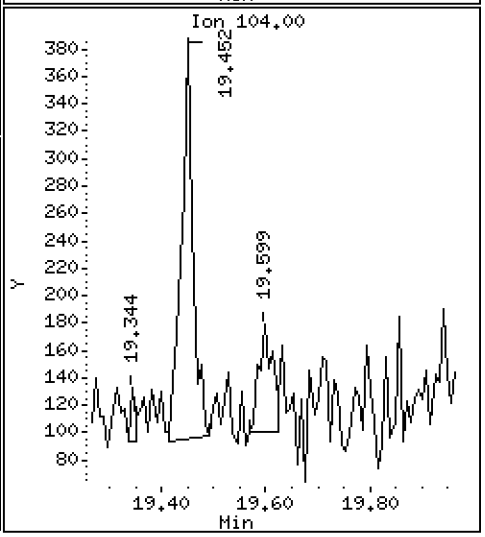


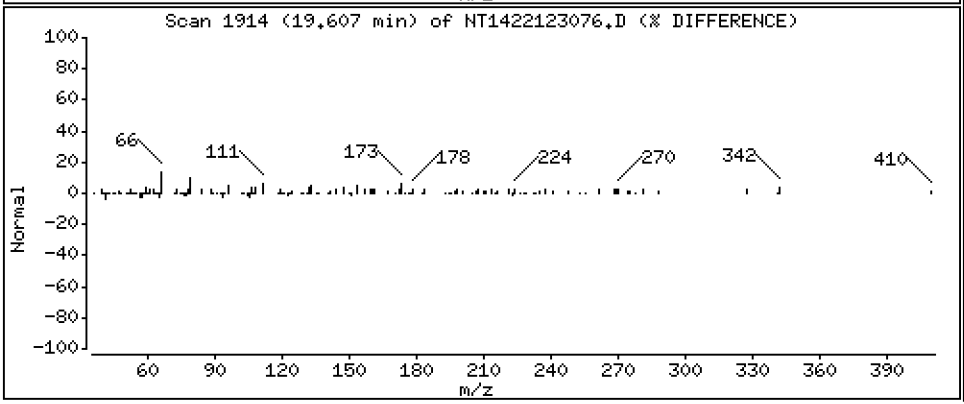












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Date : 01-JAN-2023 05:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-08

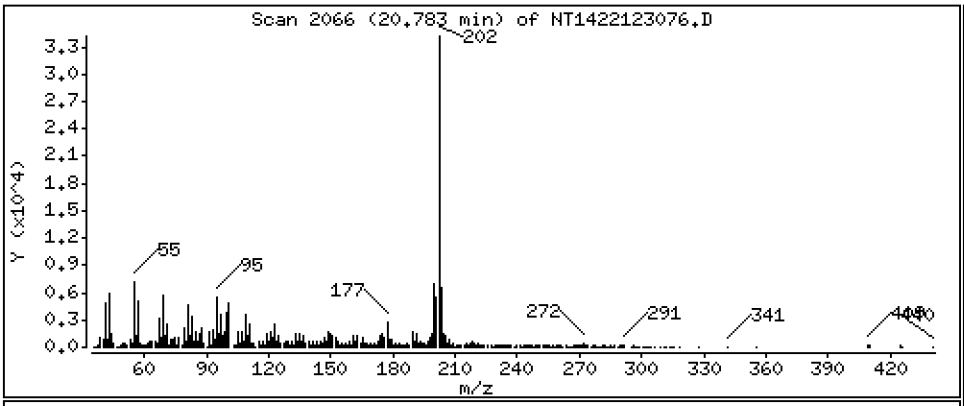
Operator: VTS

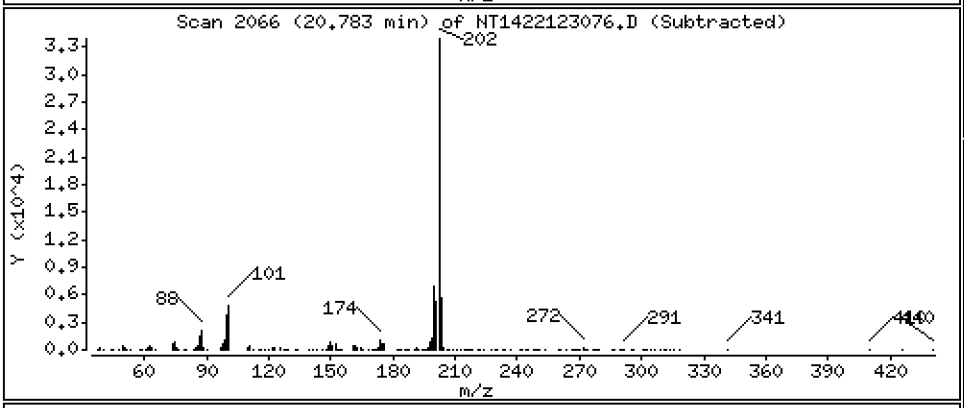
Column phase: ZB-5msi

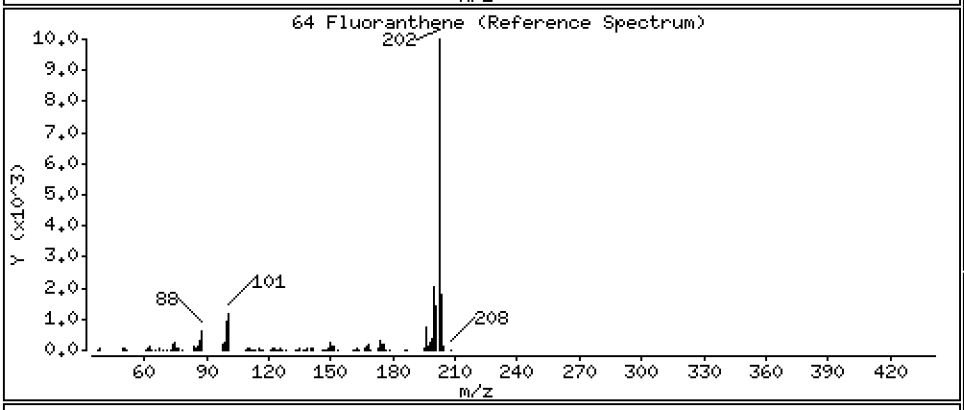
Column diameter: 0.25

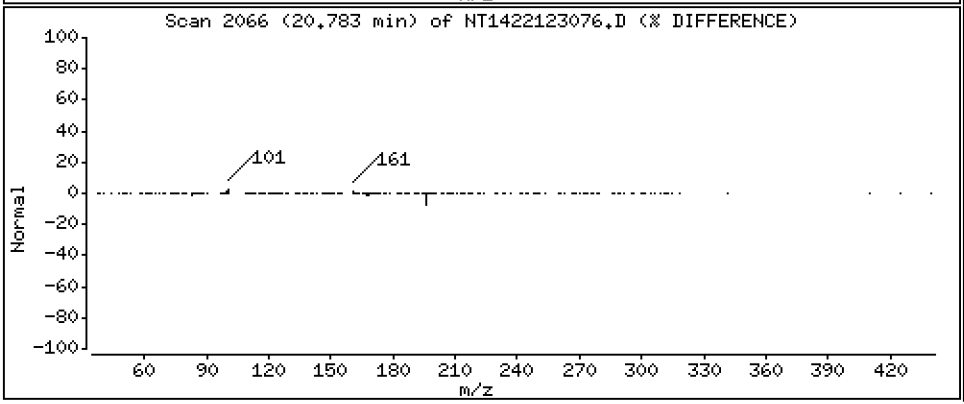
64 Fluoranthene

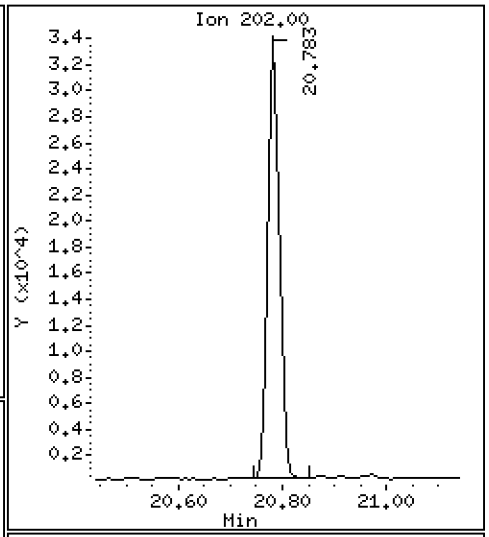
Concentration: 0.7121 ug/mL

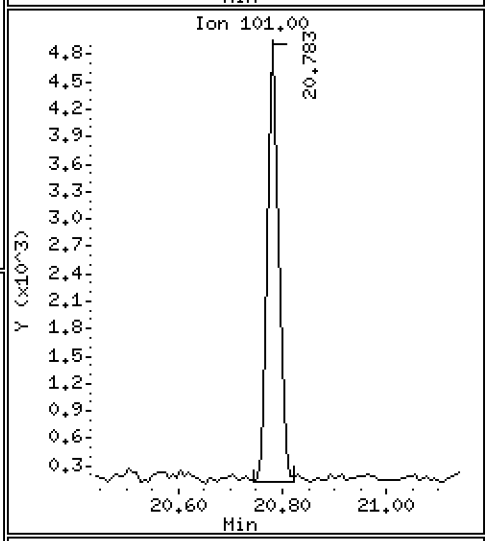


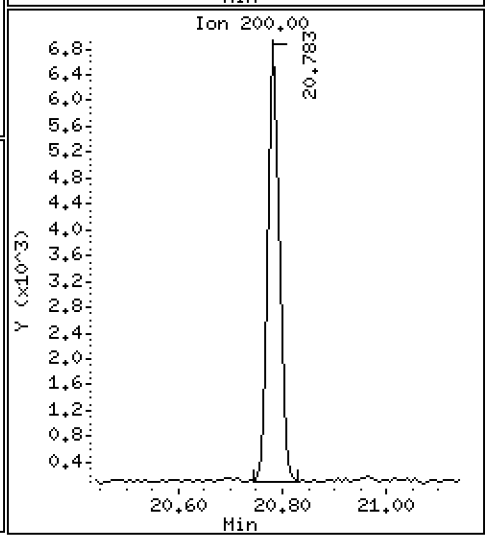












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Date : 01-JAN-2023 05:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-08

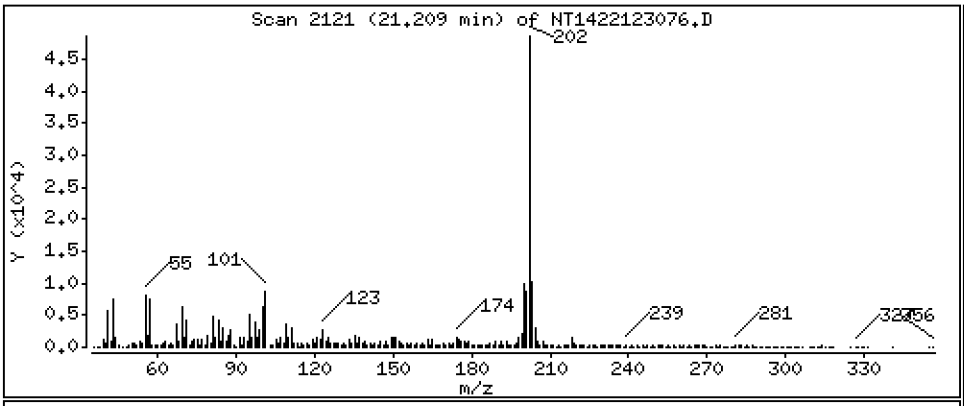
Operator: VTS

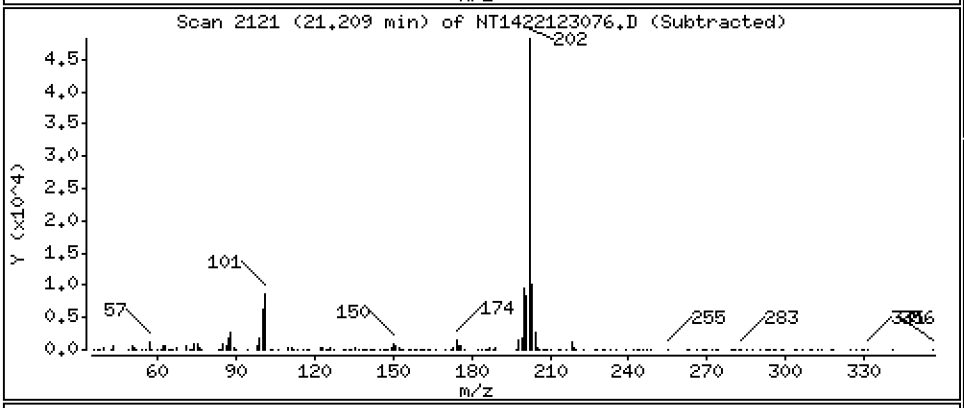
Column phase: ZB-5msi

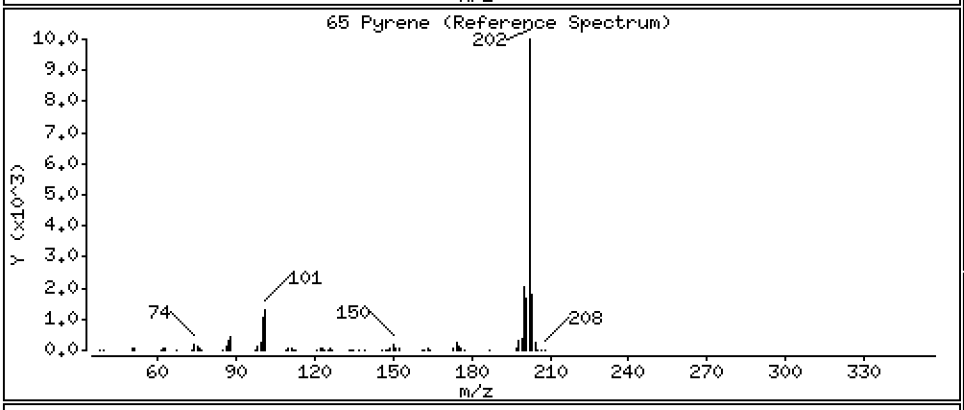
Column diameter: 0.25

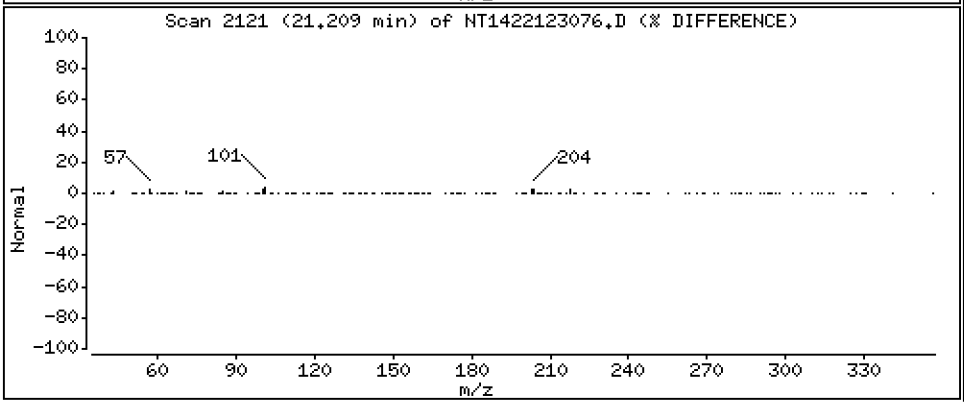
65 Pyrene

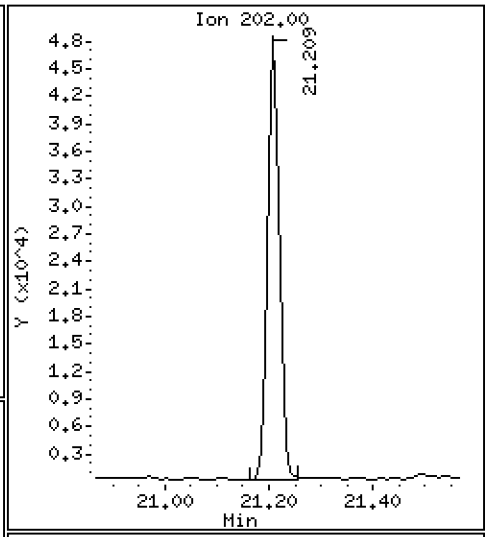
Concentration: 0.9821 ug/mL

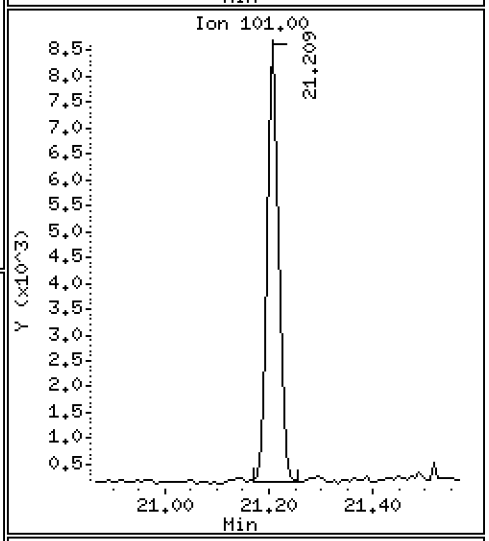


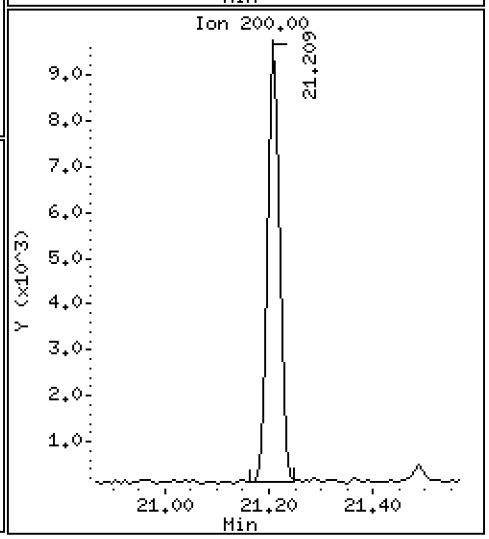












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Date : 01-JAN-2023 05:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-08

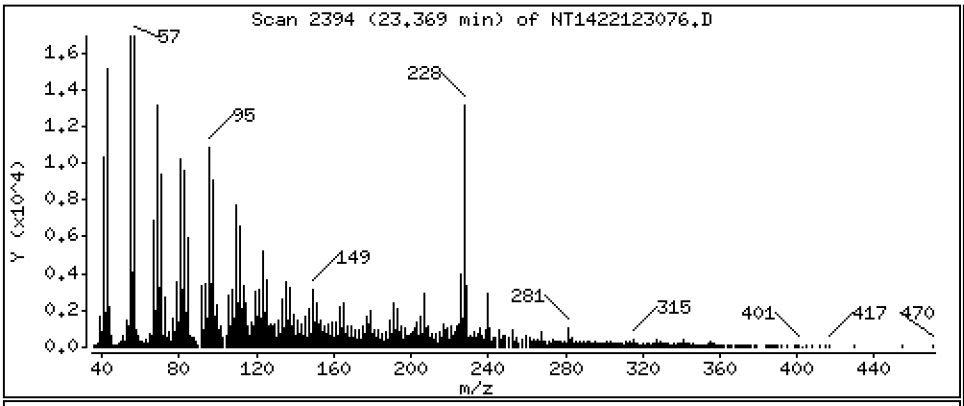
Operator: VTS

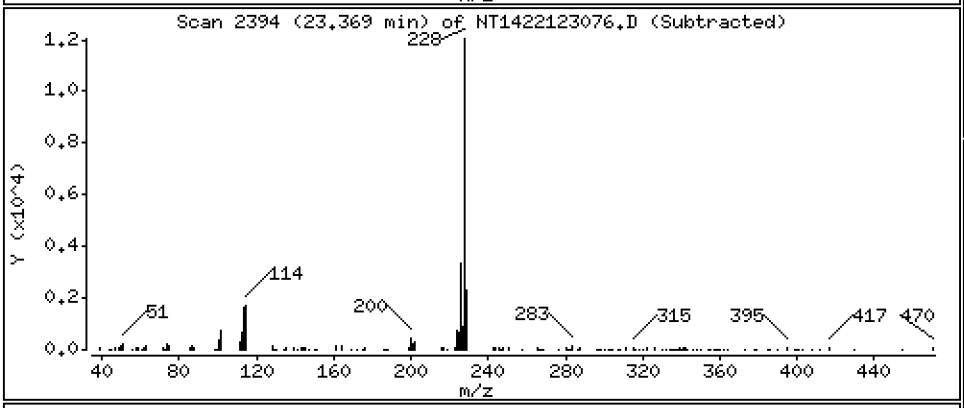
Column phase: ZB-5msi

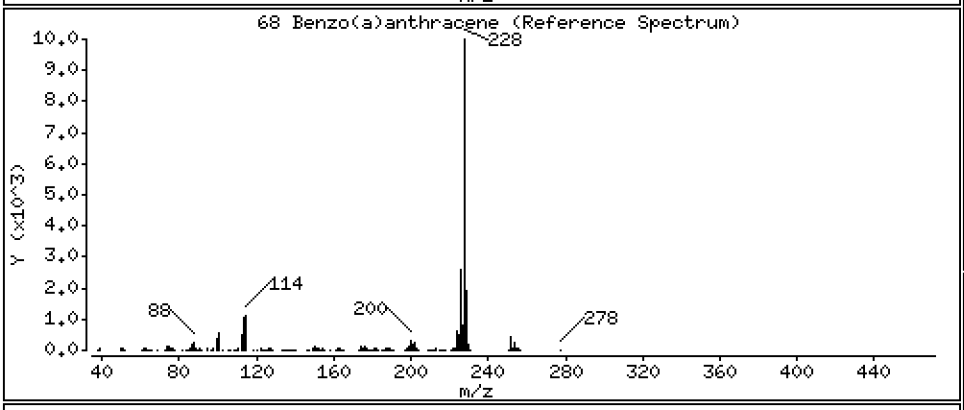
Column diameter: 0.25

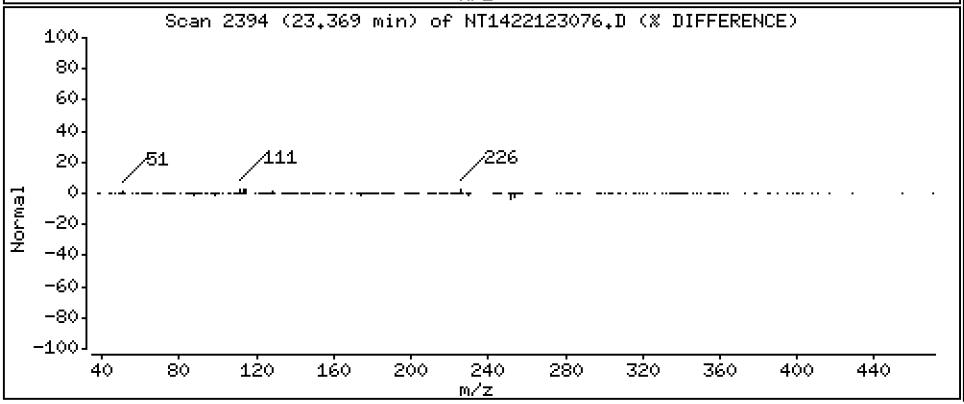
68 Benzo(a)anthracene

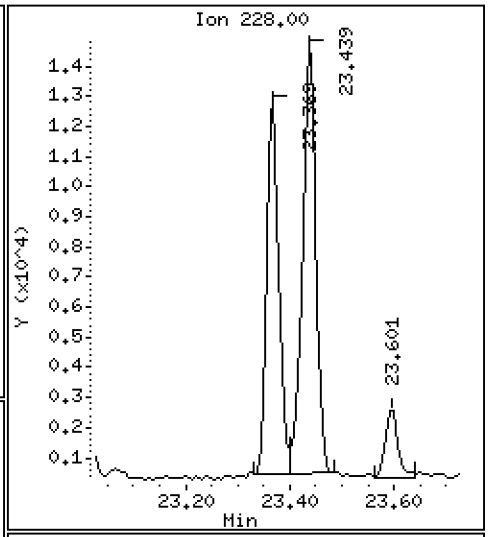
Concentration: 0.2964 ug/mL

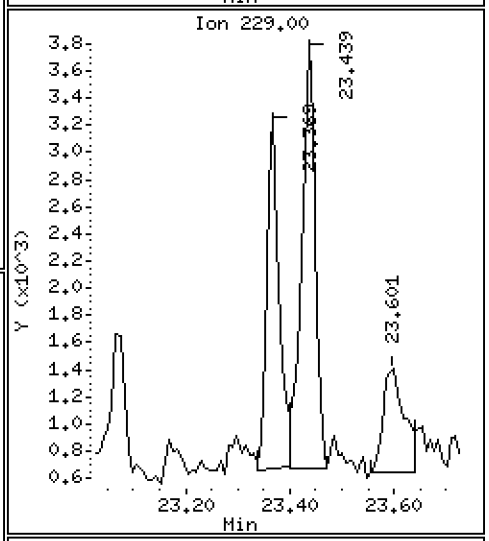


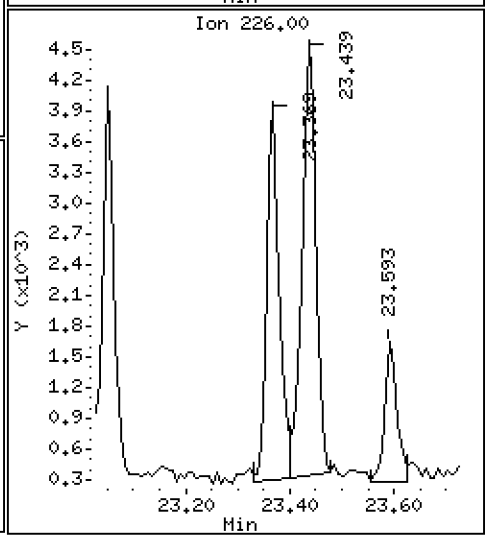












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Date : 01-JAN-2023 05:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-08

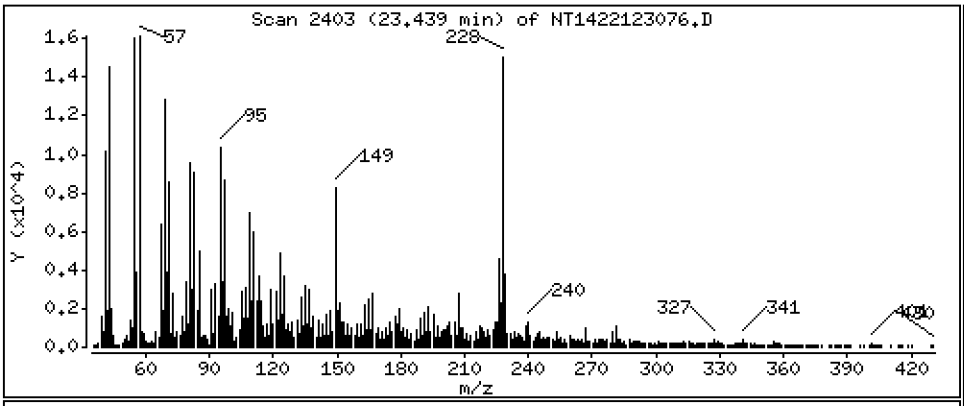
Operator: VTS

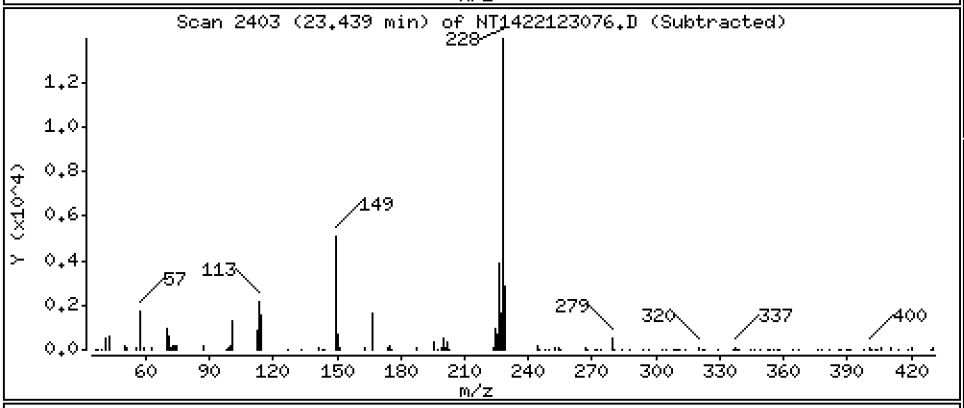
Column phase: ZB-5msi

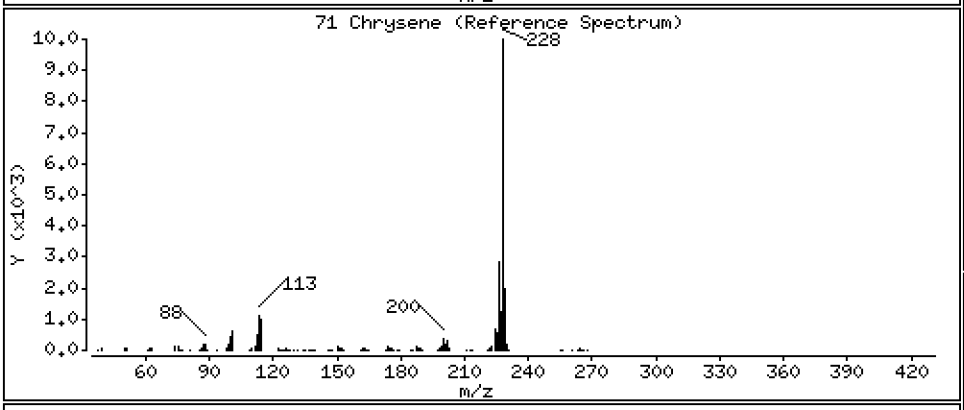
Column diameter: 0.25

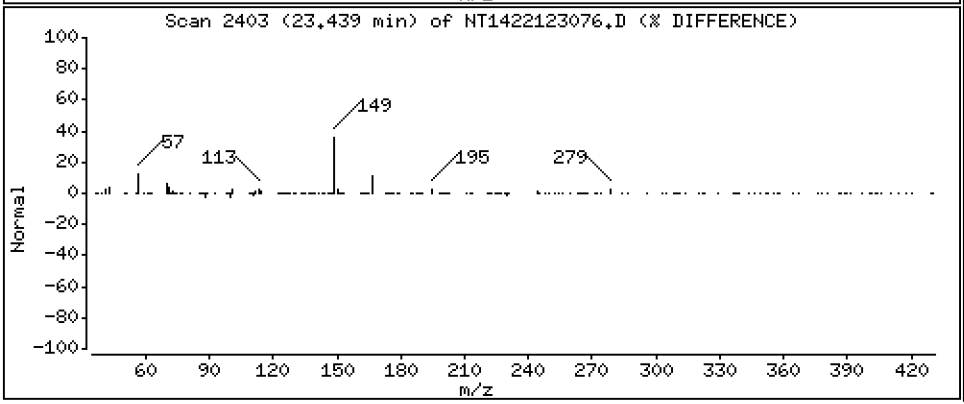
71 Chrysene

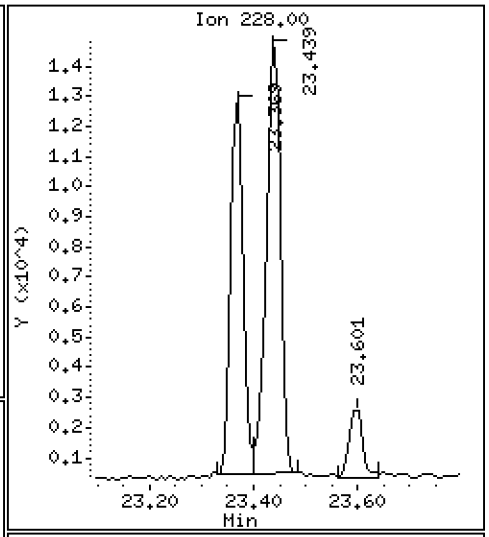
Concentration: 0.4083 ug/mL

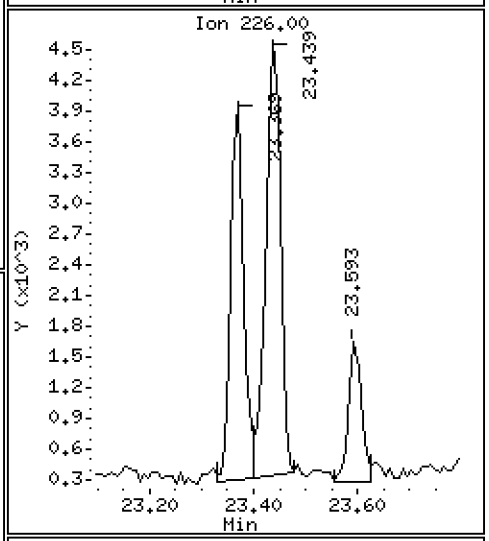


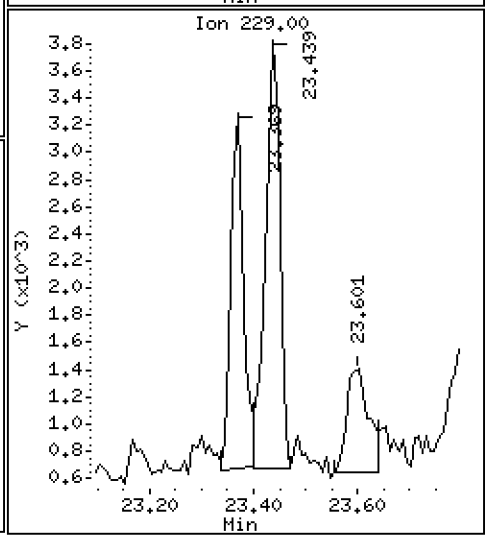












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Date : 01-JAN-2023 05:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-08

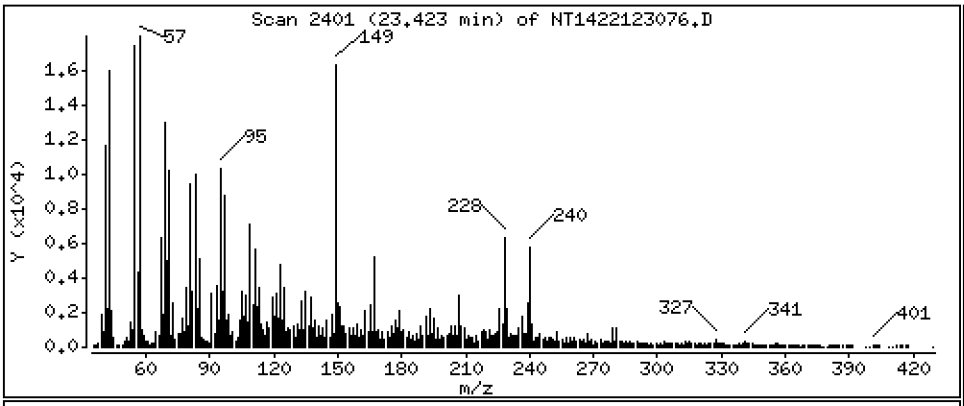
Operator: VTS

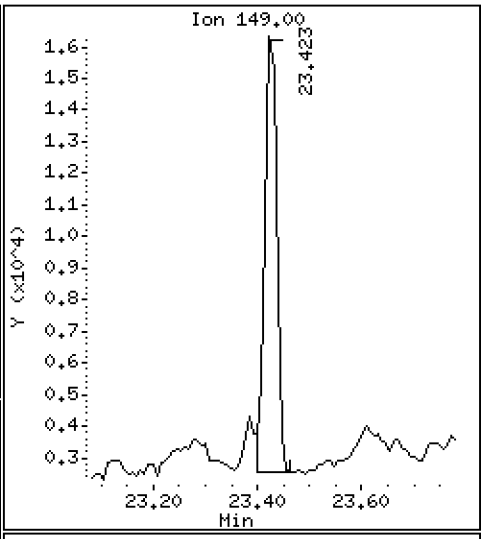
Column phase: ZB-5msi

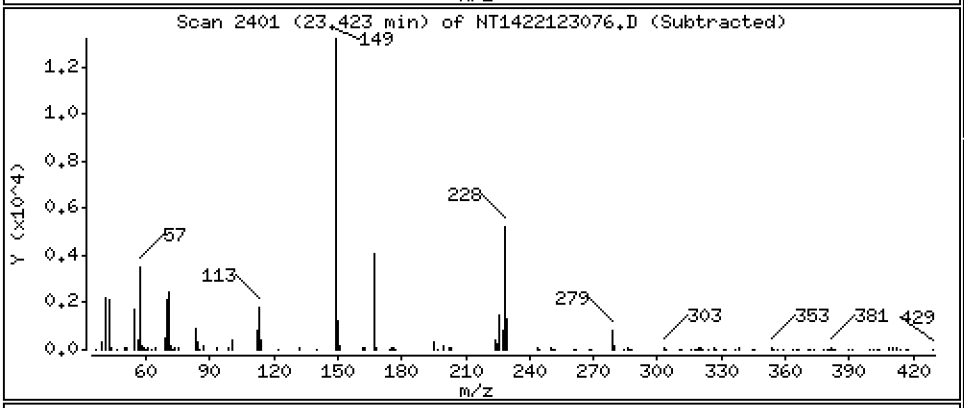
Column diameter: 0.25

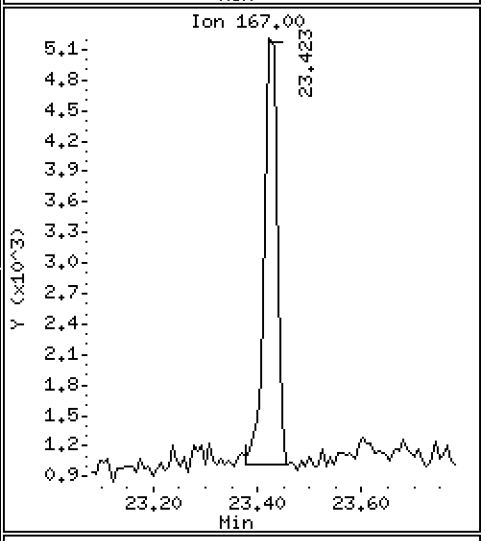
72 bis(2-Ethylhexyl)phthalate

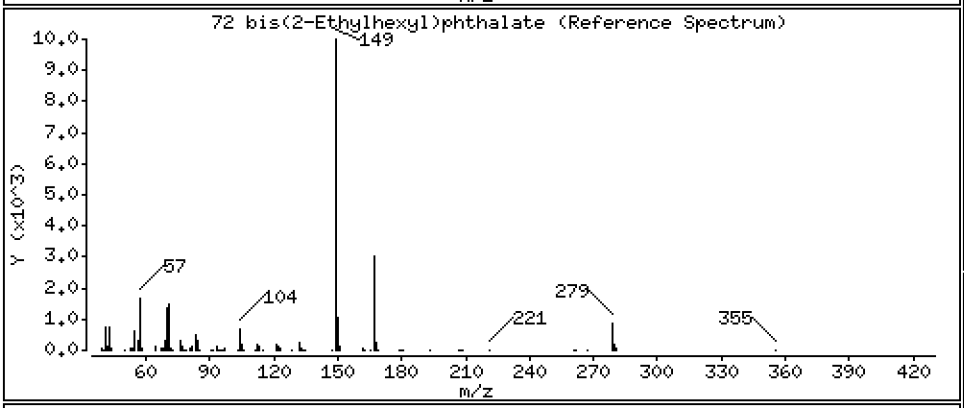
Concentration: 0.4727 ug/mL

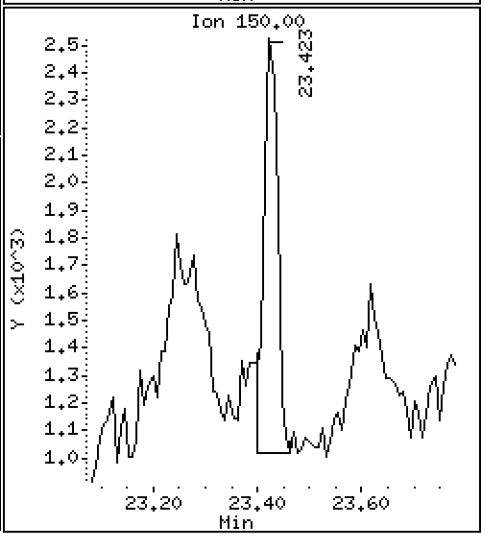


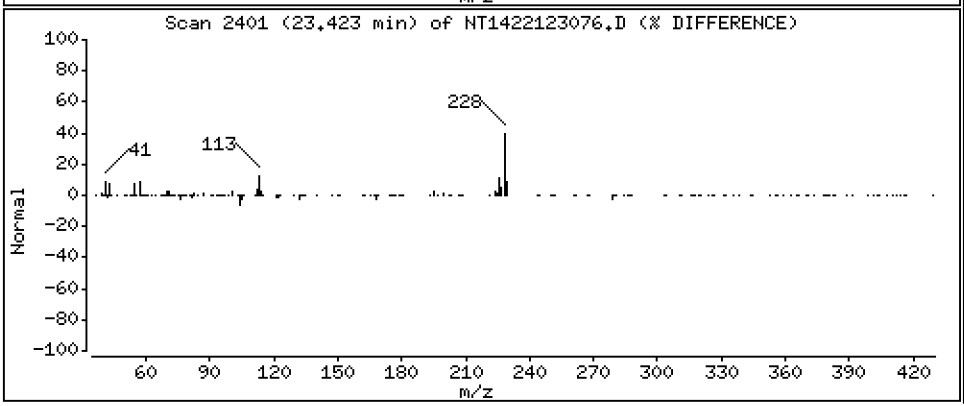












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Date : 01-JAN-2023 05:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-08

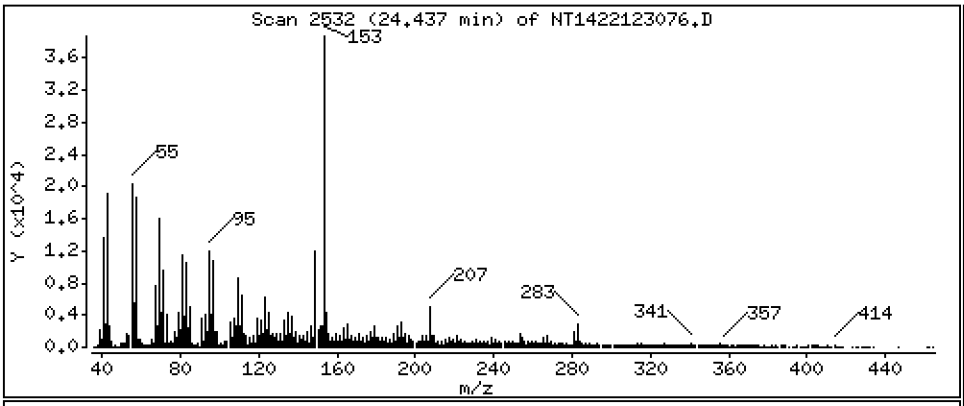
Operator: VTS

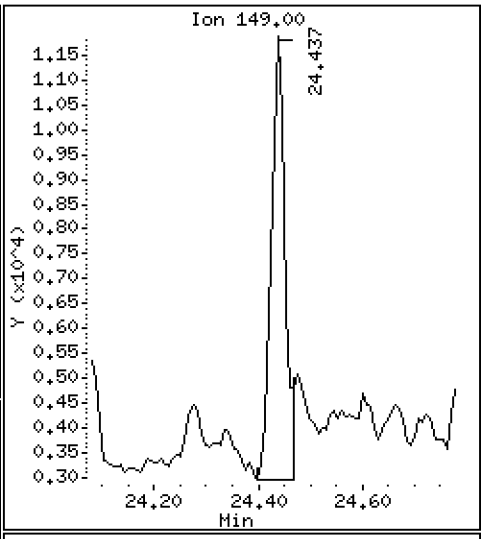
Column phase: ZB-5msi

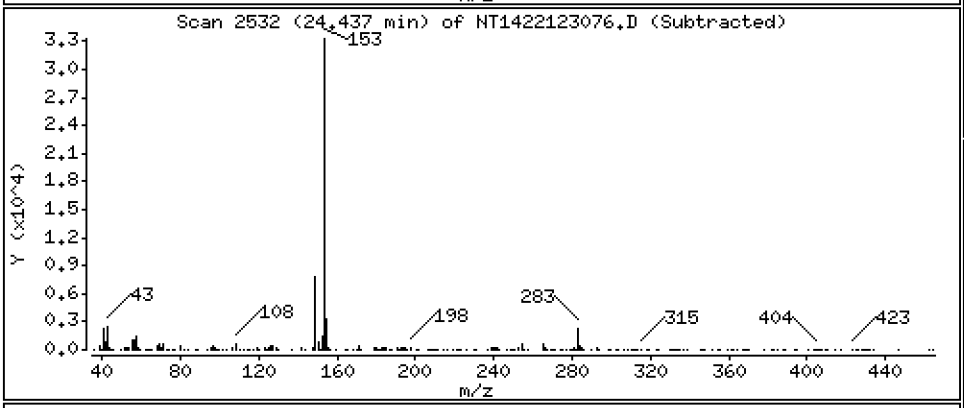
Column diameter: 0.25

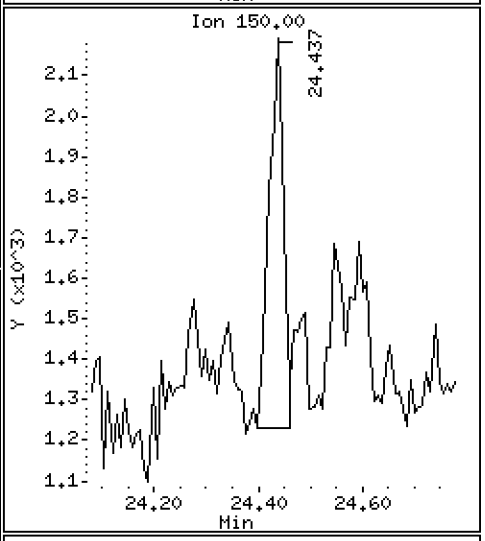
73 Di-n-octylphthalate

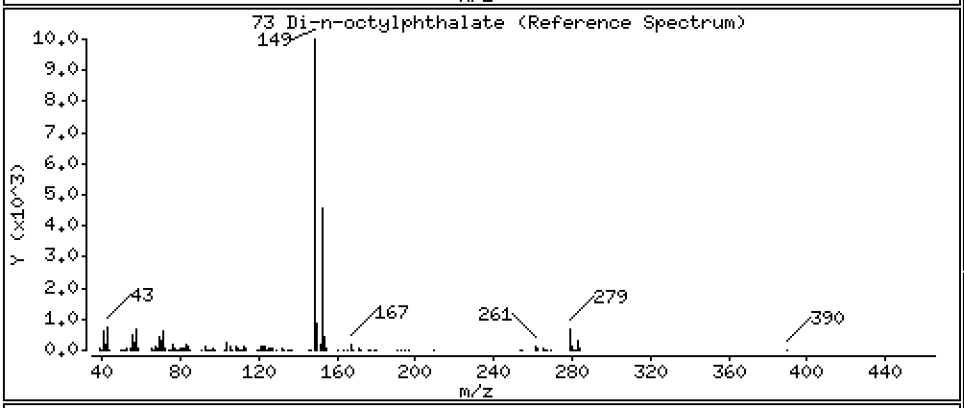
Concentration: 0.1698 ug/mL

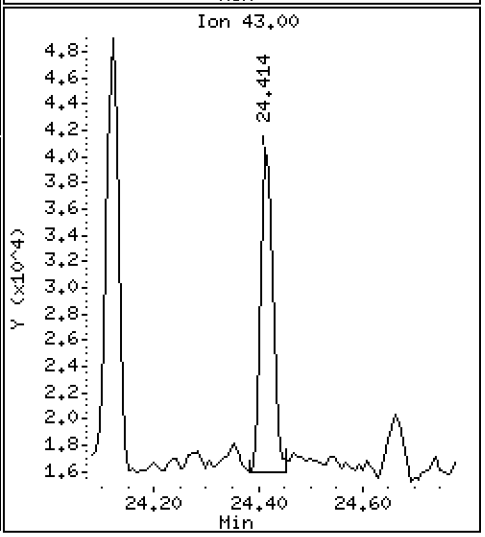


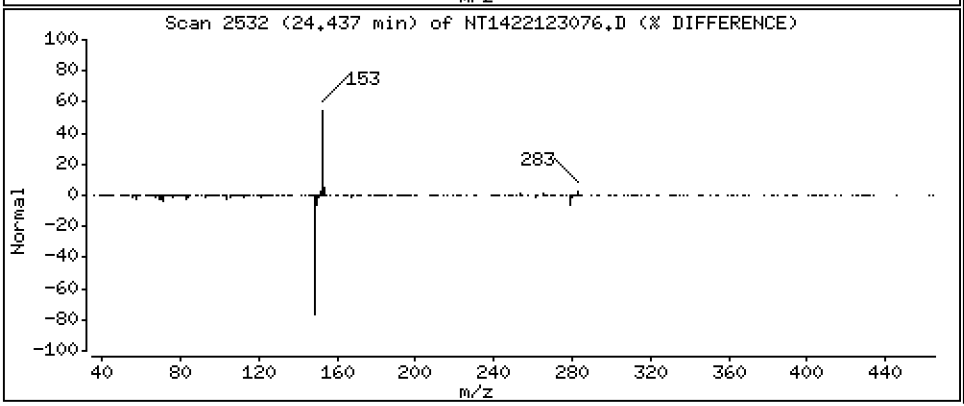












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Date : 01-JAN-2023 05:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-08

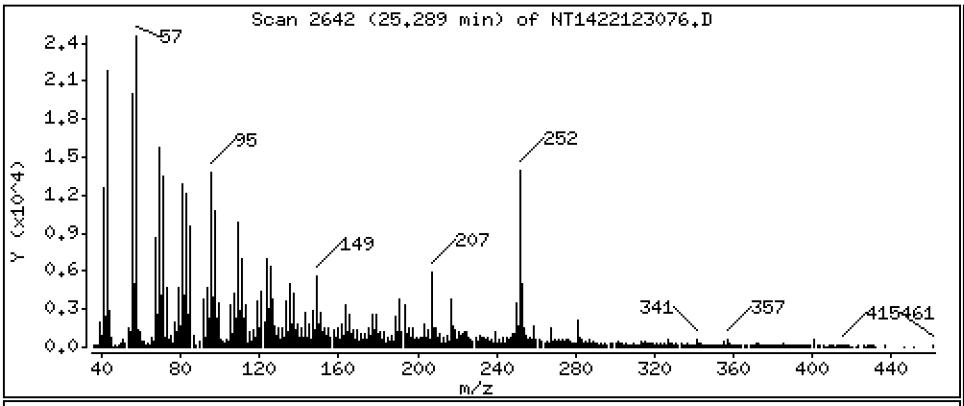
Operator: VTS

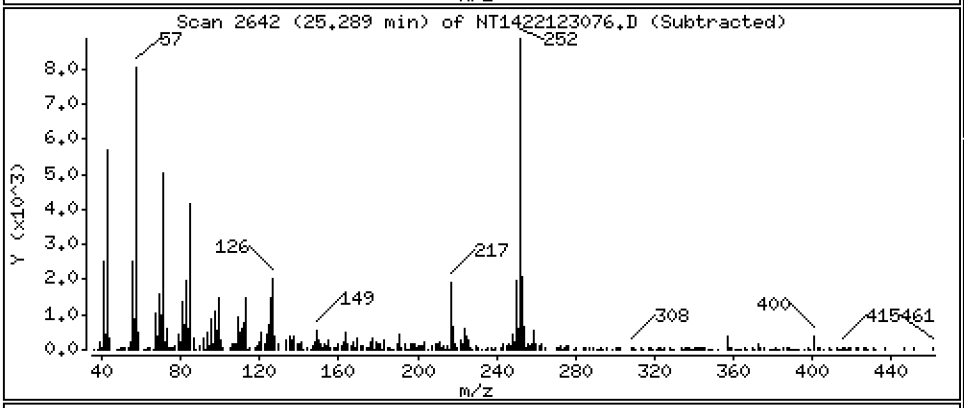
Column phase: ZB-5msi

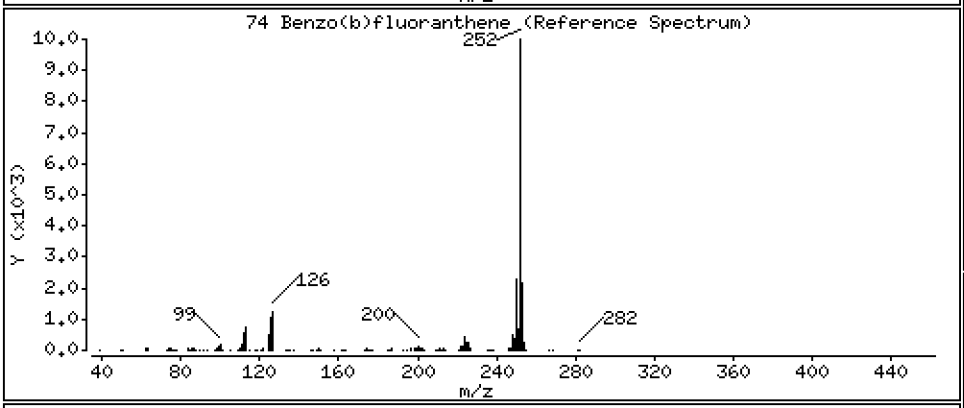
Column diameter: 0.25

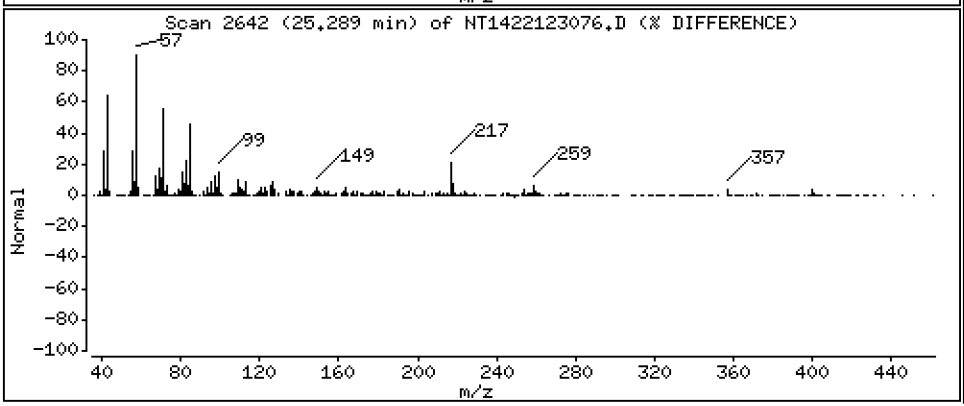
74 Benzo(b)fluoranthene

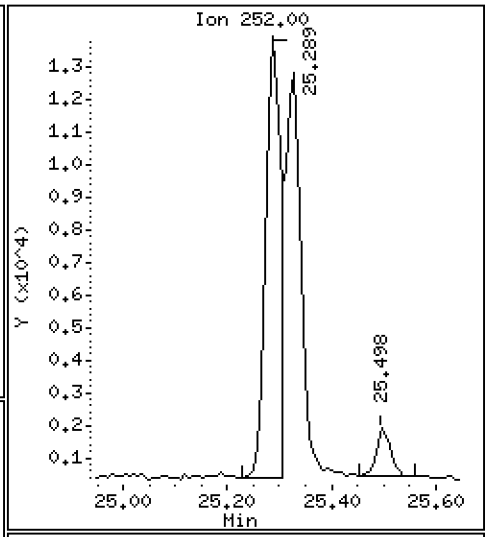
Concentration: 0.4018 ug/mL

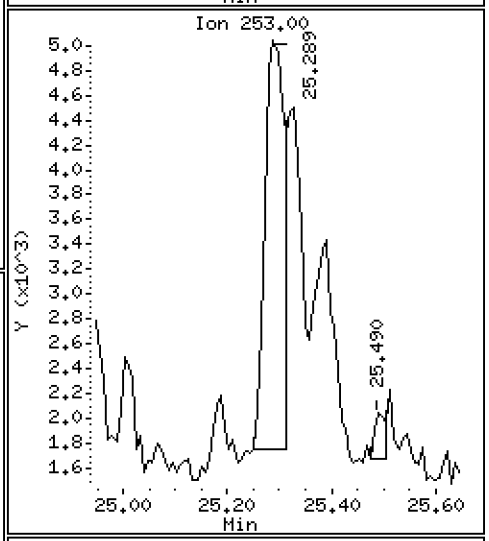


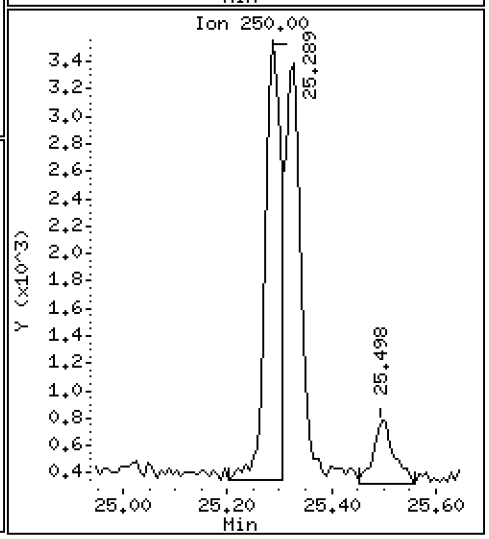












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Date : 01-JAN-2023 05:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-08

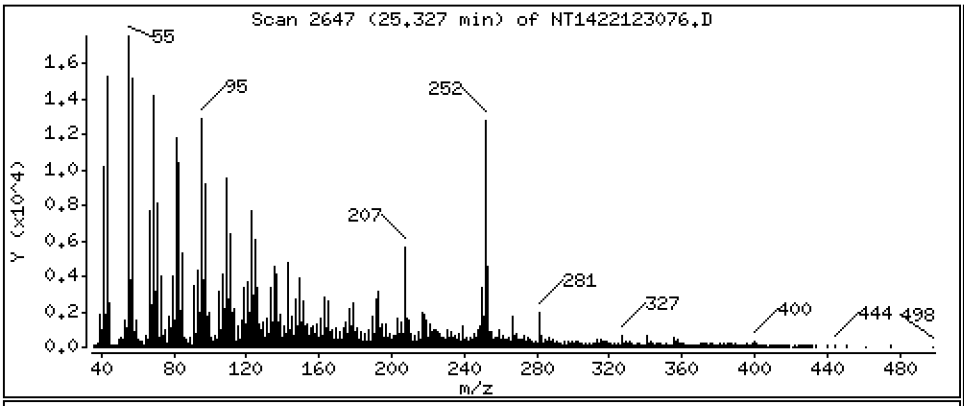
Operator: VTS

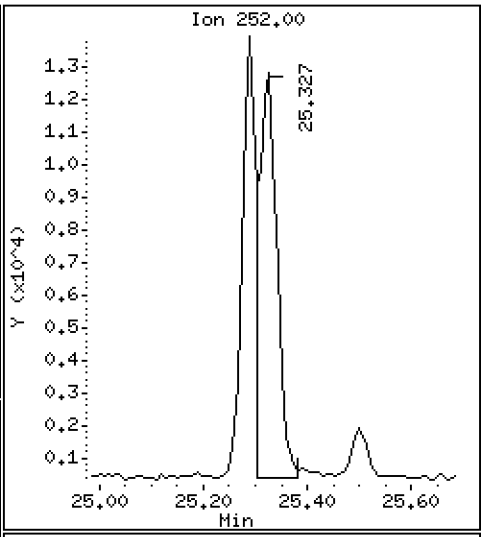
Column phase: ZB-5msi

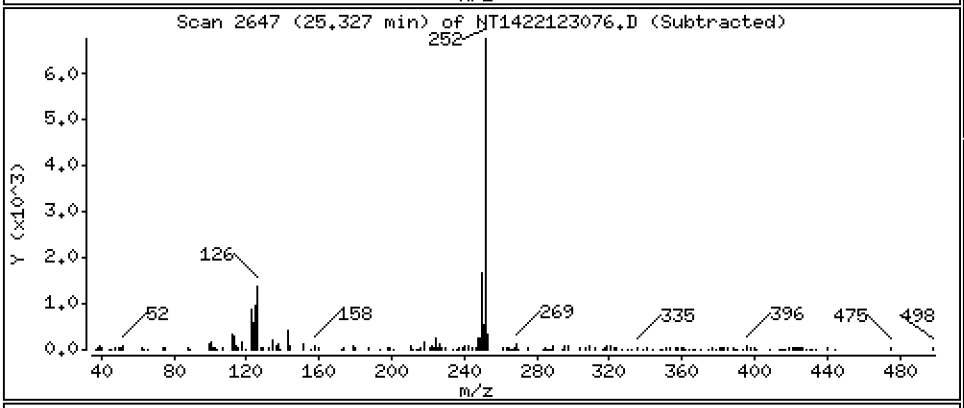
Column diameter: 0.25

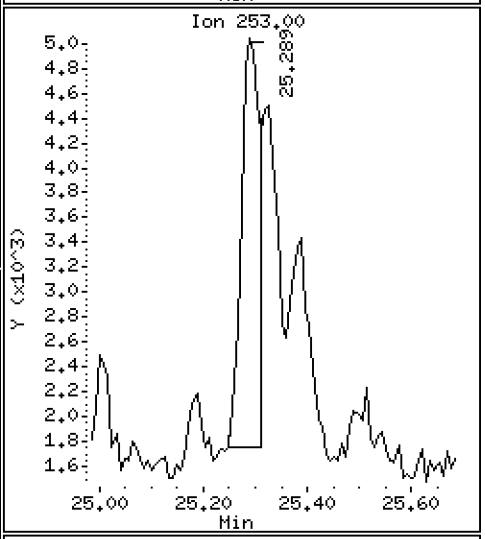
75 Benzo(k)fluoranthene

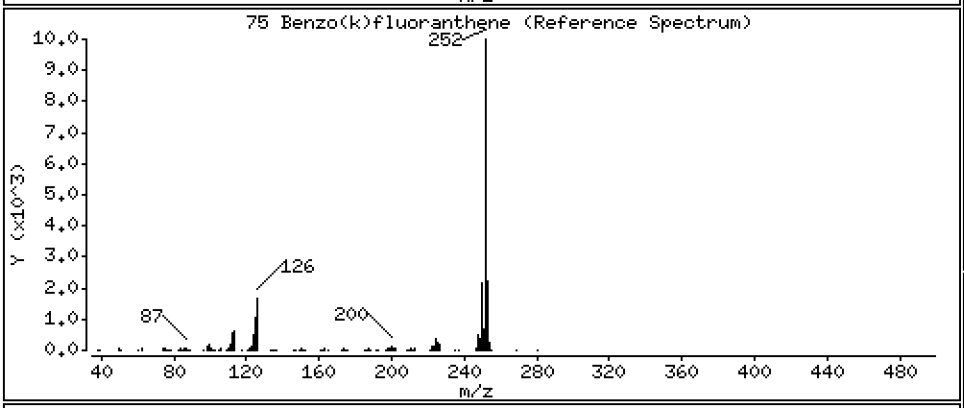
Concentration: 0.4529 ug/mL

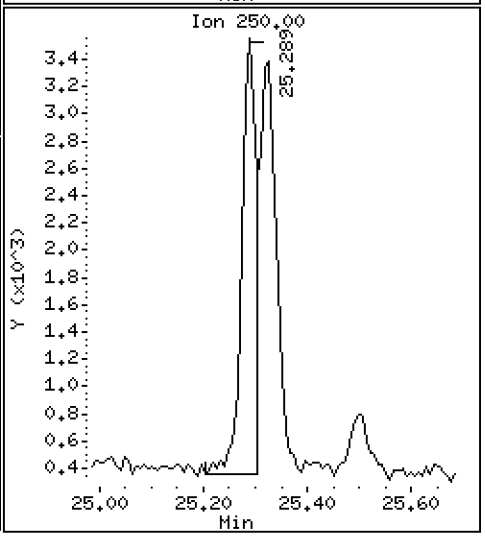


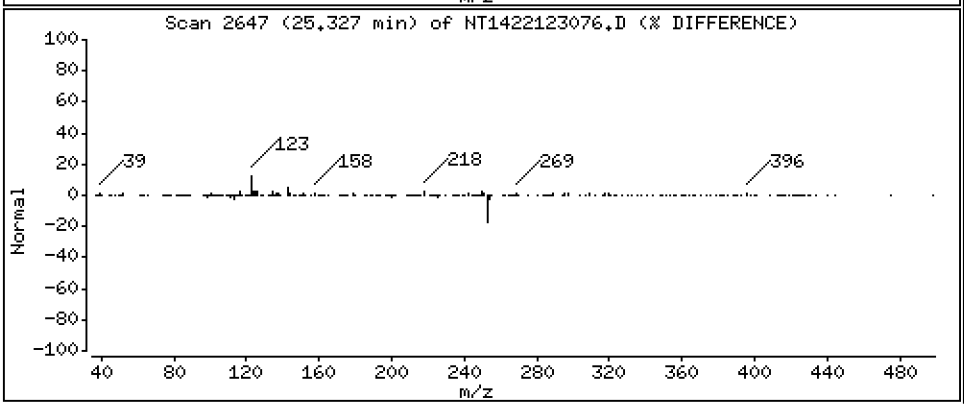












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Date : 01-JAN-2023 05:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-08

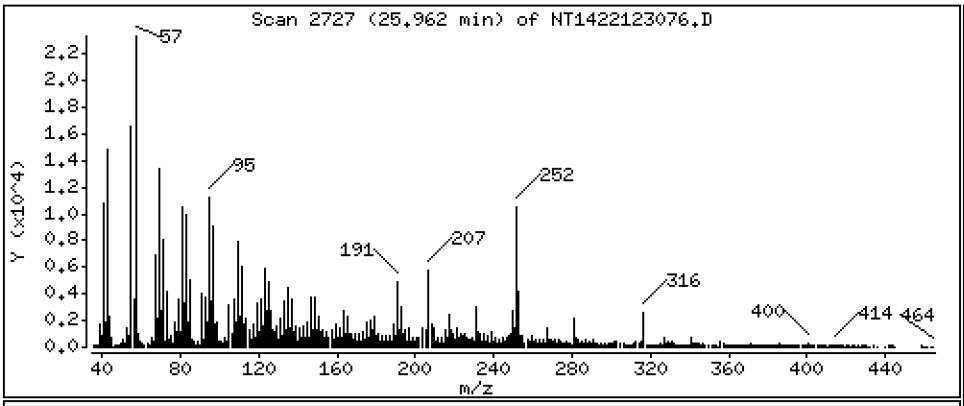
Operator: VTS

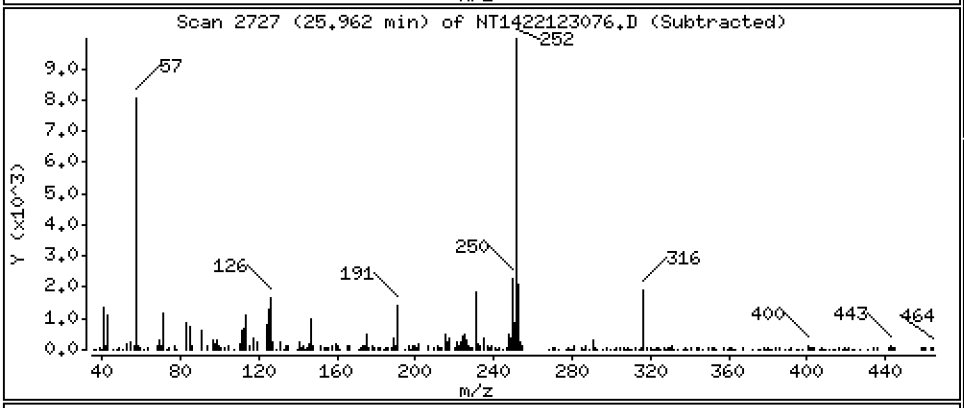
Column phase: ZB-5msi

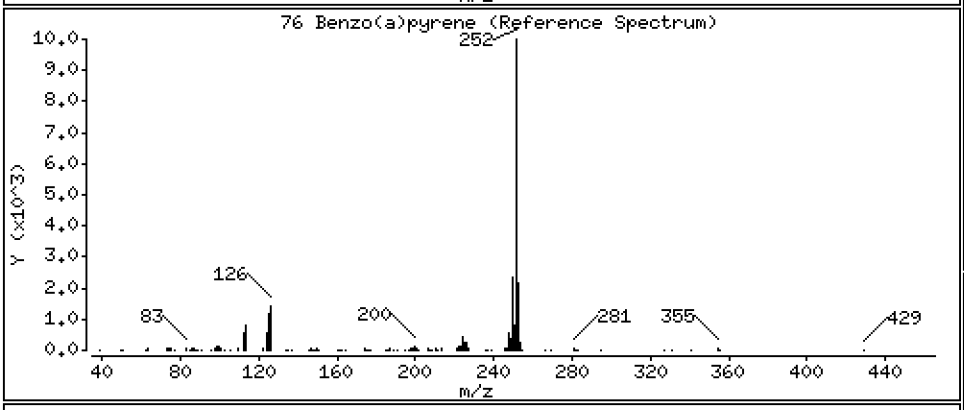
Column diameter: 0.25

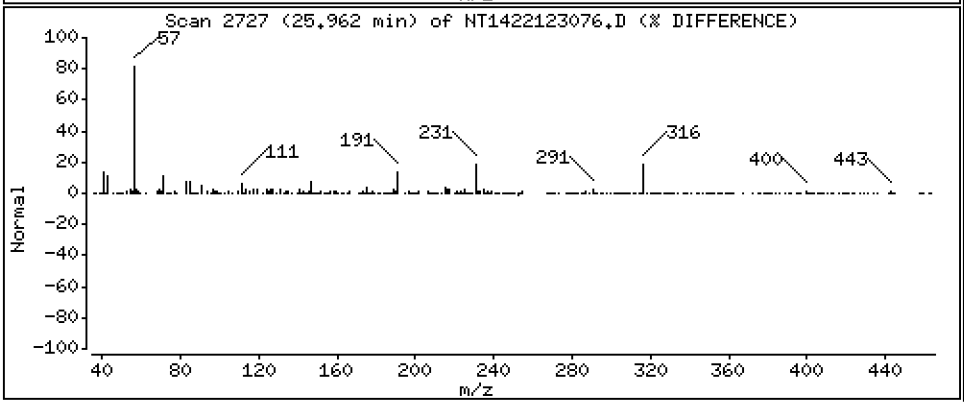
76 Benzo(a)pyrene

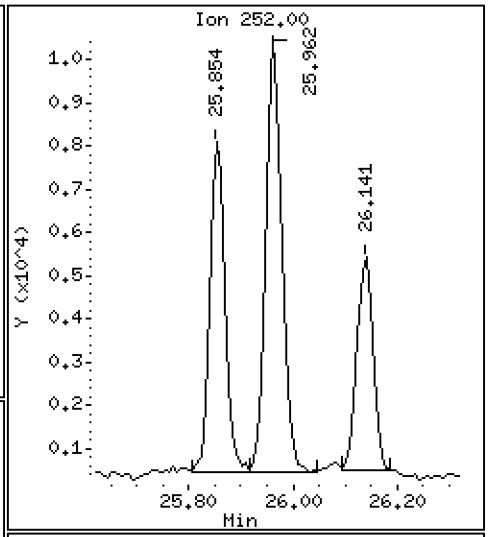
Concentration: 0.3893 ug/mL

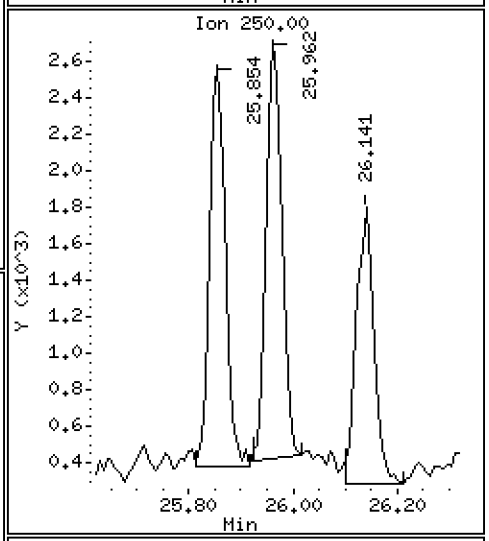


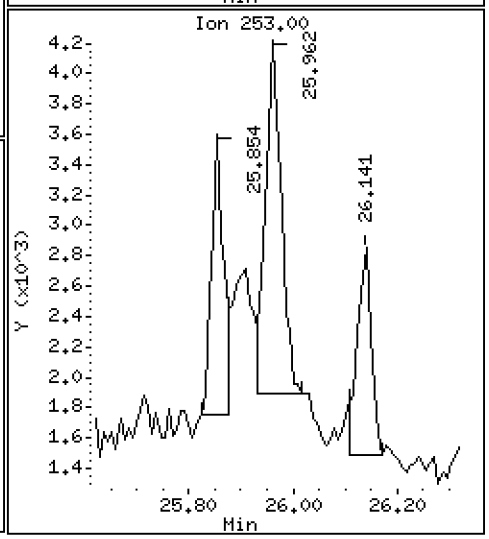












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Date : 01-JAN-2023 05:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-08

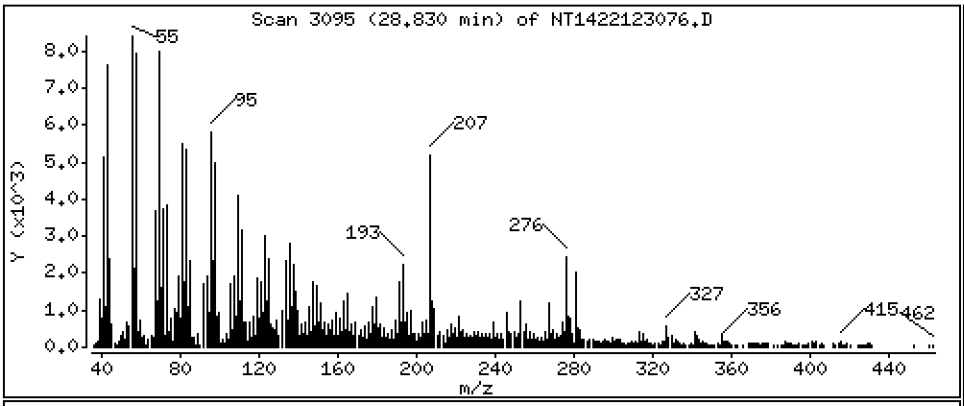
Operator: VTS

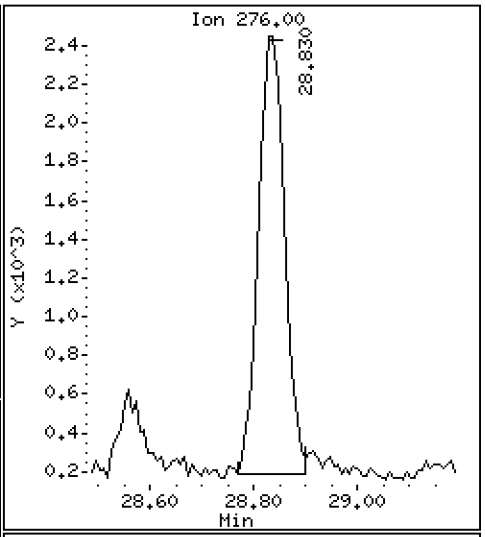
Column phase: ZB-5msi

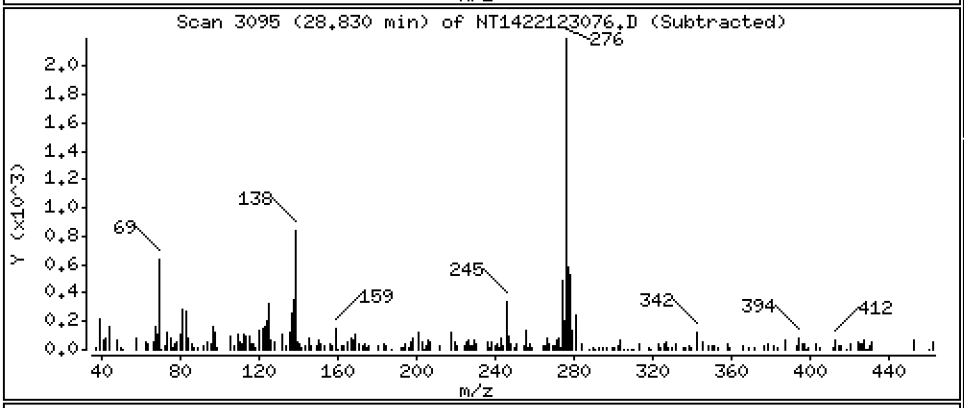
Column diameter: 0.25

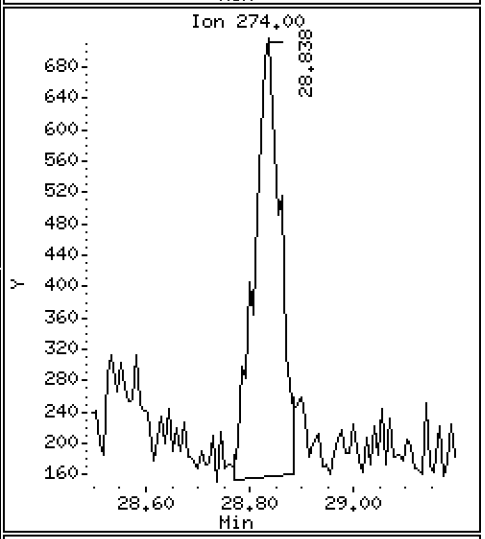
78 Indeno(1,2,3-cd)pyrene

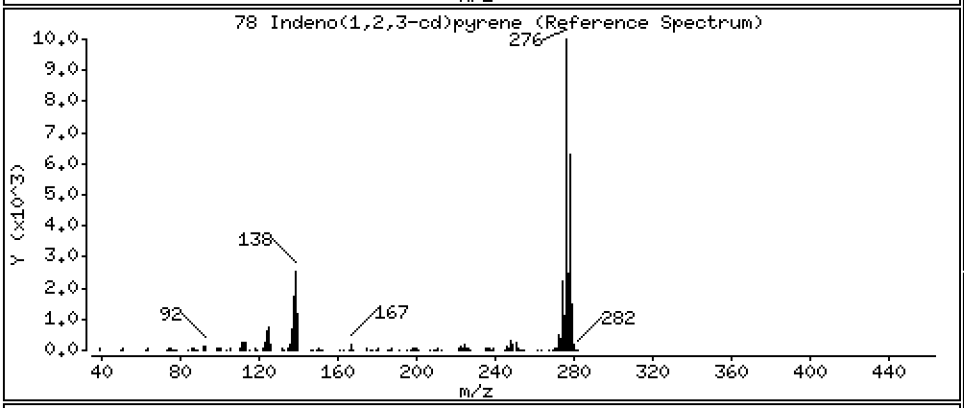
Concentration: 0.1285 ug/mL

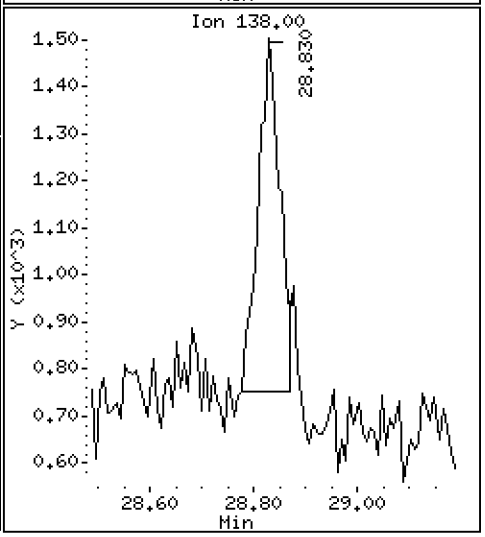


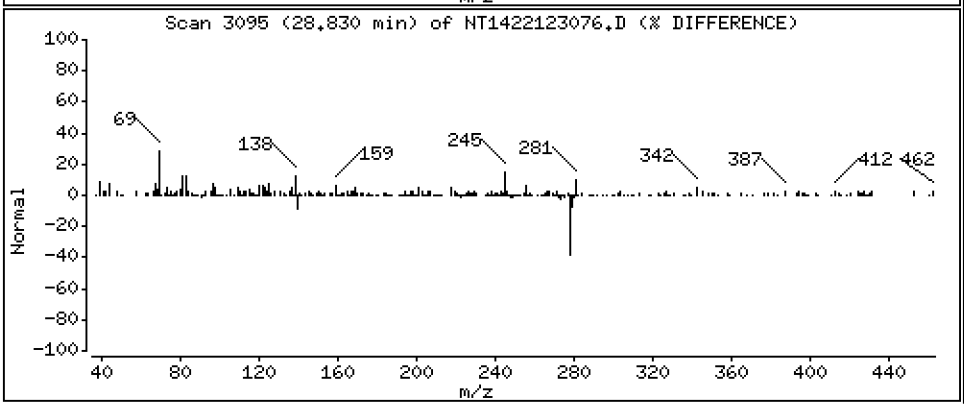












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Date : 01-JAN-2023 05:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-08

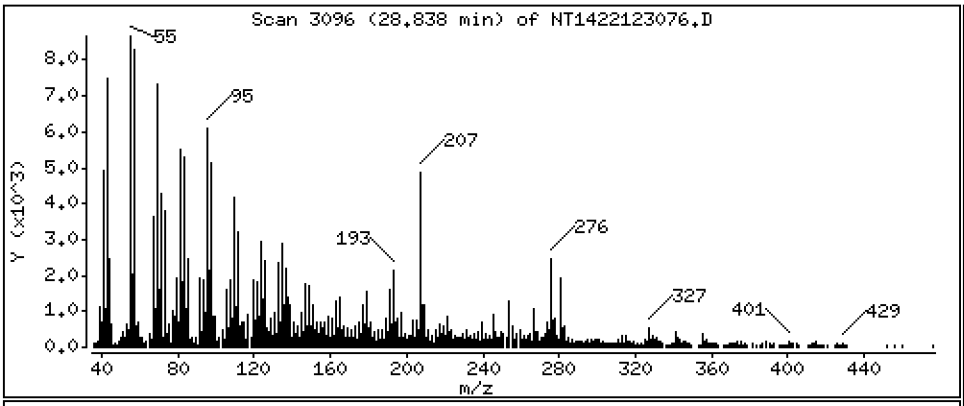
Operator: VTS

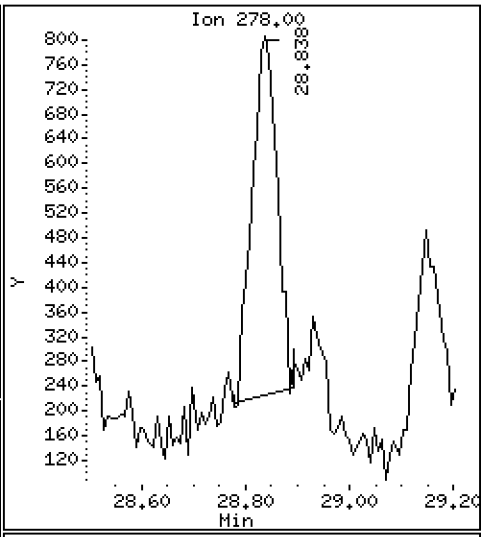
Column phase: ZB-5msi

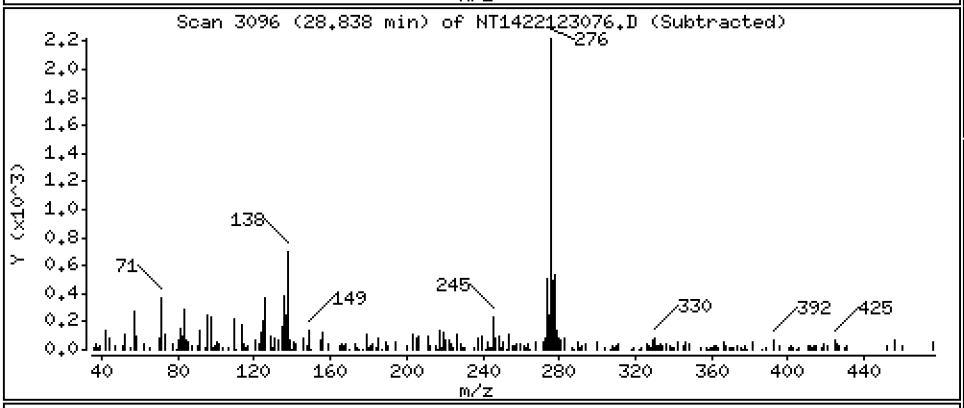
Column diameter: 0.25

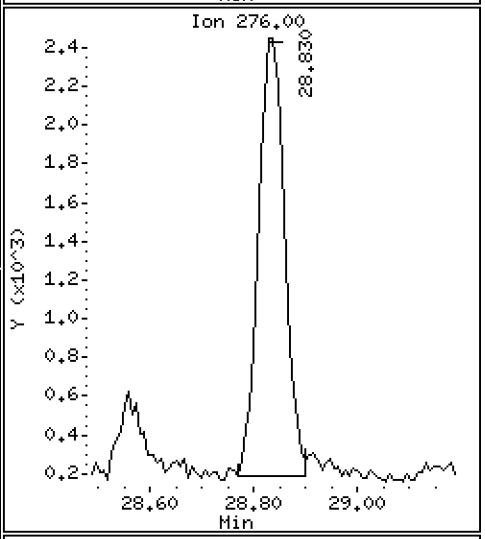
79 Dibenzo(a,h)anthracene

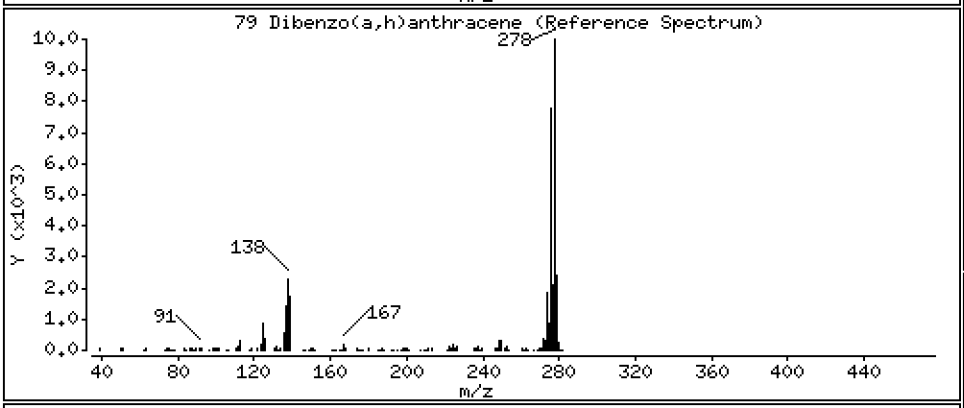
Concentration: 0.03770 ug/mL

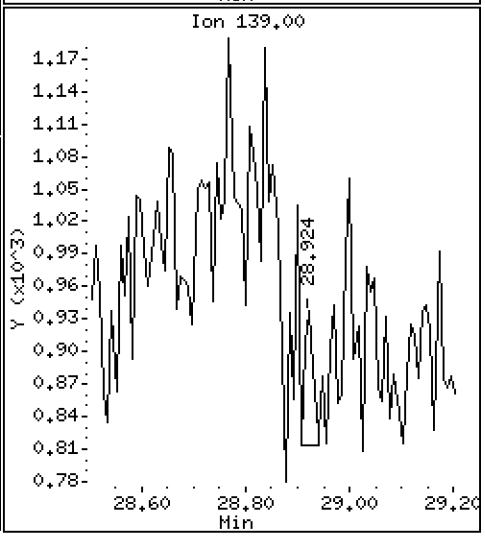


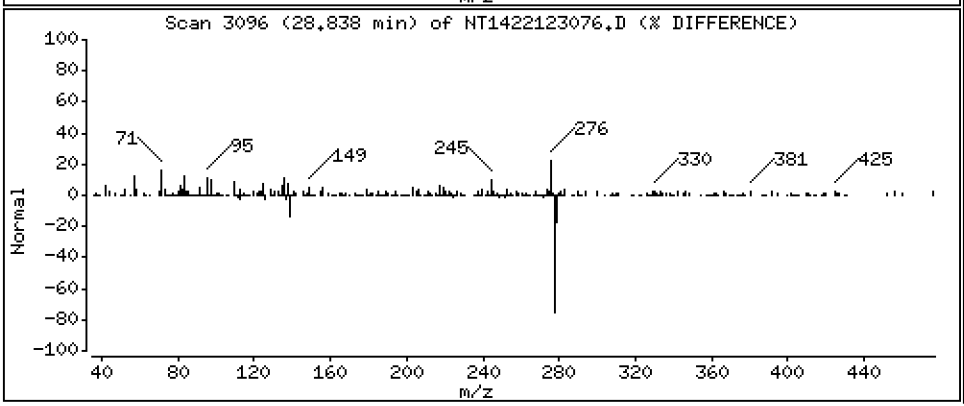












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Date : 01-JAN-2023 05:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-08

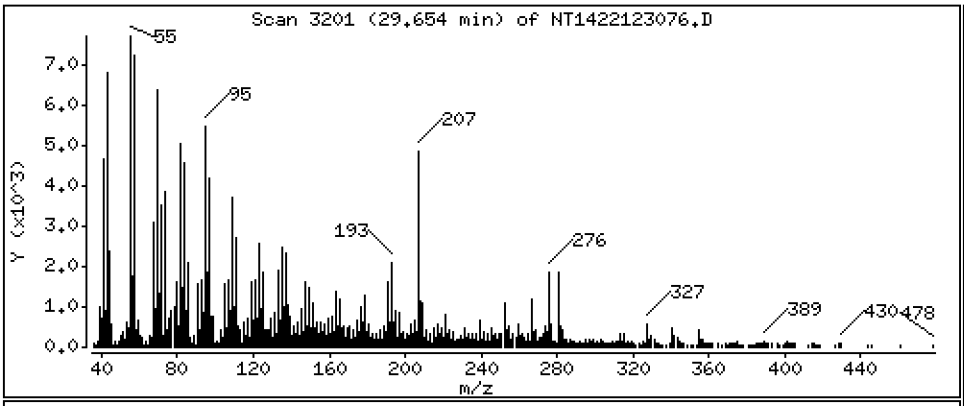
Operator: VTS

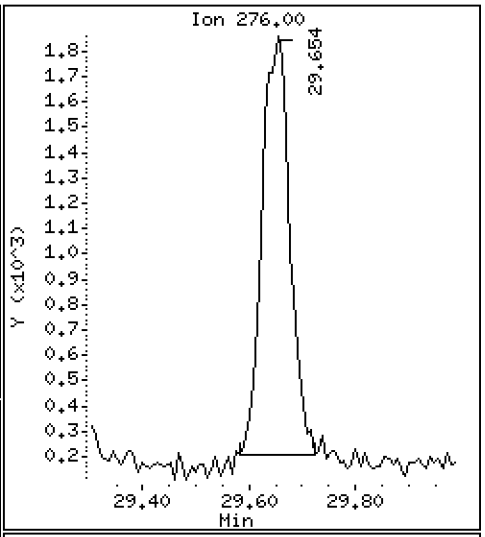
Column phase: ZB-5msi

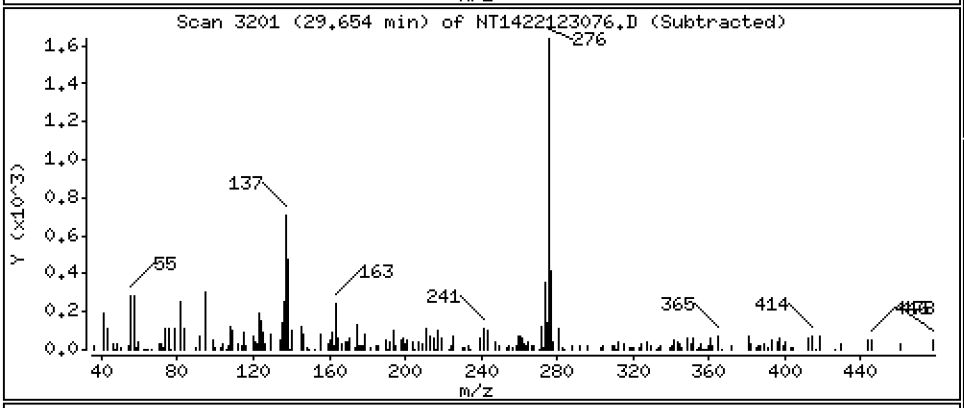
Column diameter: 0.25

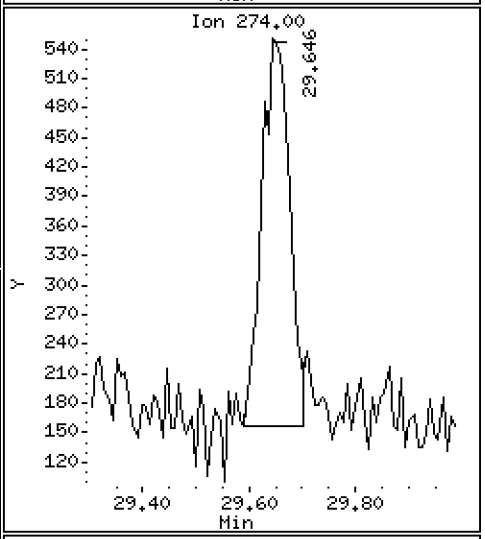
80 Benzo(g,h,i)perylene

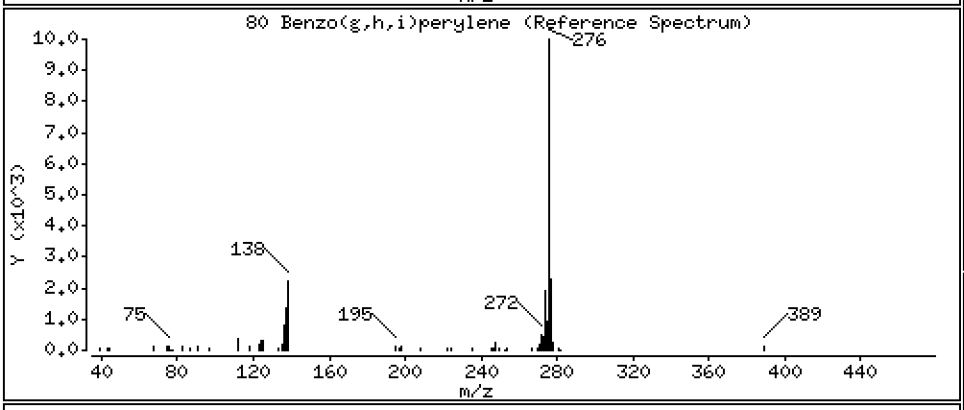
Concentration: 0.1177 ug/mL

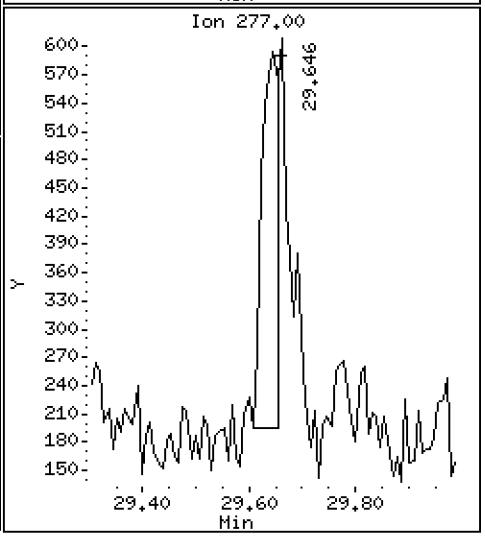


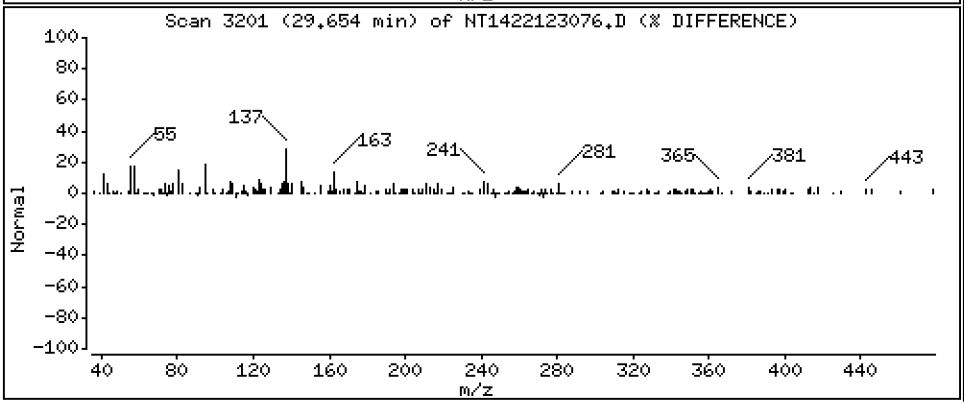












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Date : 01-JAN-2023 05:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-08

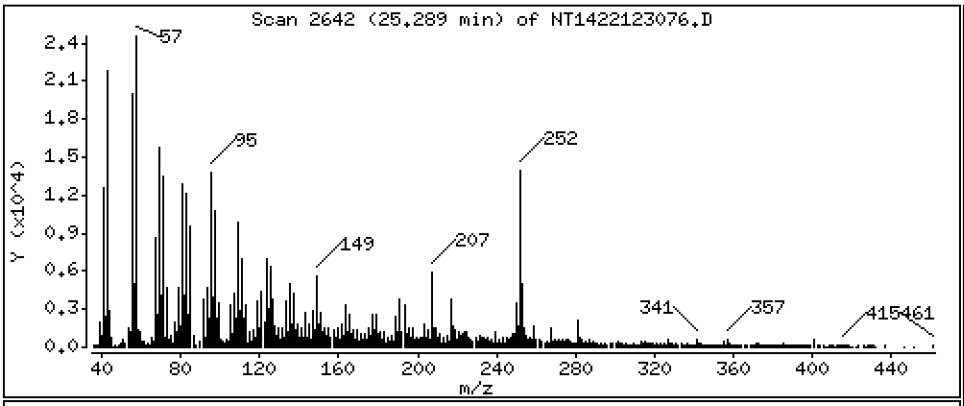
Operator: VTS

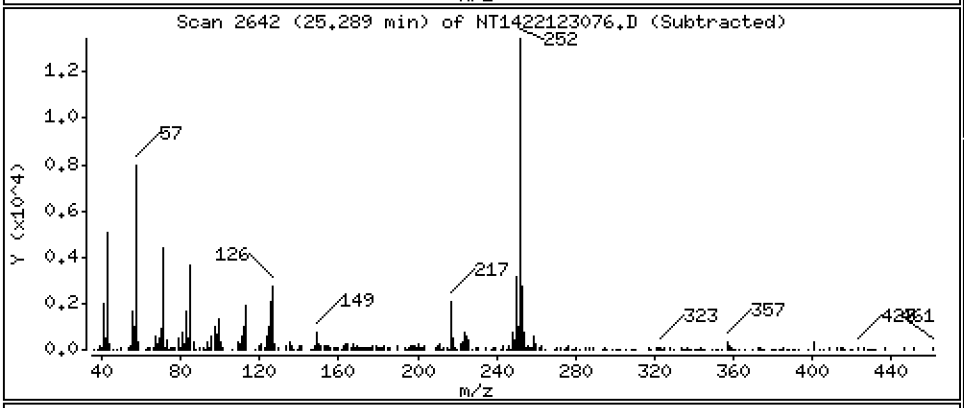
Column phase: ZB-5msi

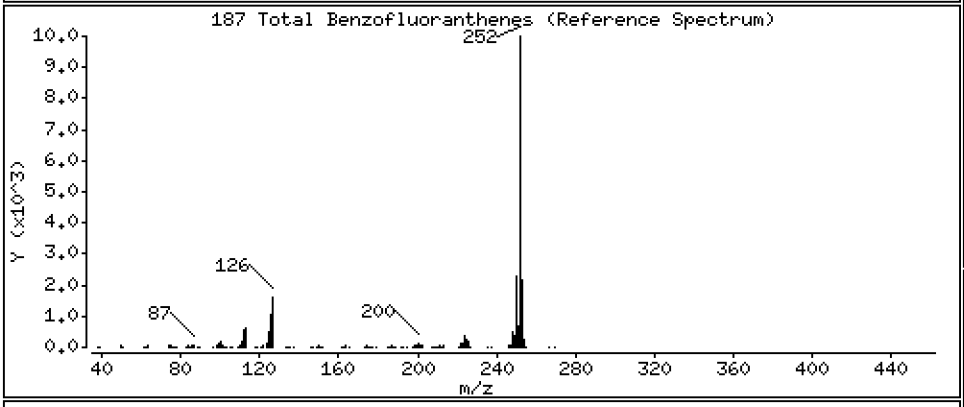
Column diameter: 0.25

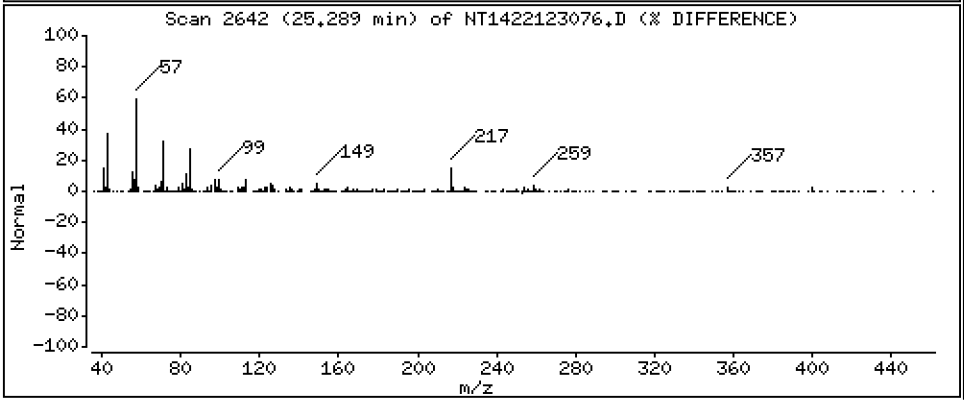
187 Total Benzofluoranthenes

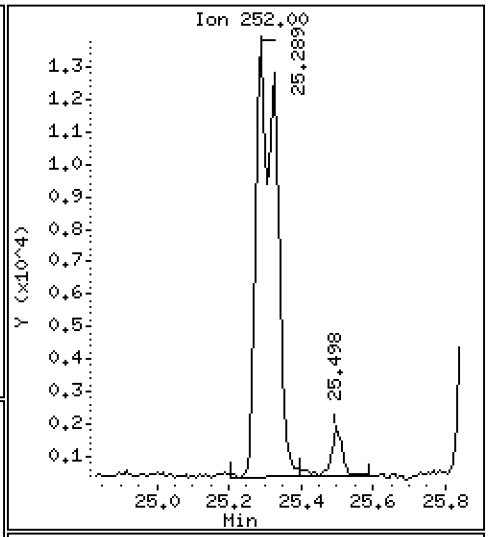
Concentration: 0.8316 ug/mL

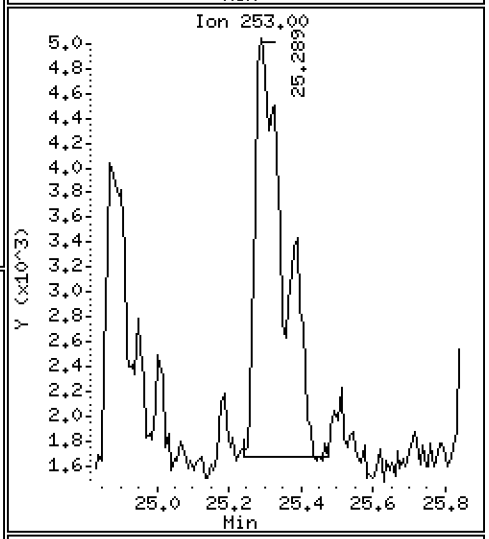


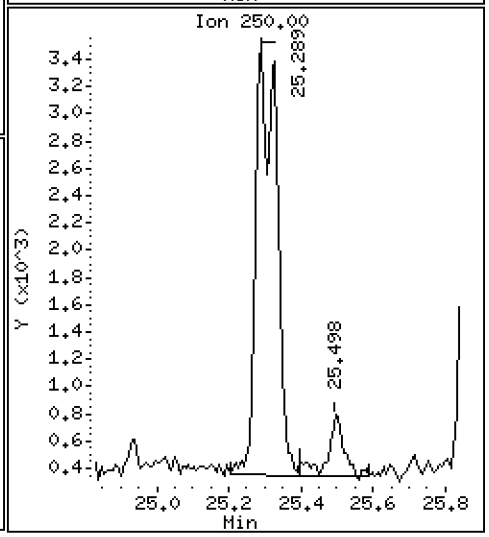












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230C.b\NT1422123076.D
Lab Smp Id: 22L0136-08
Inj Date : 01-JAN-2023 05:29 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : 22L0136-08
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 47
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.927	6.919	(0.756)	152417	5.24727	5.247
$	2 Phenol-d5	99	8.511	8.519	(0.929)	191389	5.33166	5.332
	3 Phenol	94	8.542	8.542	(0.932)	1189	0.02915	0.02915
$	5 2-Chlorophenol-d4	132	8.797	8.797	(0.960)	173863	5.76706	5.767
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	9.160	9.160	(1.000)	90666	4.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	9.525	9.525	(1.040)	74507	3.61593	3.616
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	Compound Not Detected.					
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	10.255	10.262	(0.879)	118425	4.32574	4.326
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	11.665	11.673	(1.000)	324201	4.00000	
	28 Naphthalene	128	11.704	11.712	(1.003)	1743	0.02185	0.02185
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	142	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	13.893	13.901	(0.908)	232550	4.15757	4.158
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	14.791	14.799	(0.967)	2132	0.04544	0.04544
	40	Acenaphthylene	152	14.985	14.993	(0.979)	949	0.01308	0.01308
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	15.302	15.310	(1.000)	166361	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	15.364	15.371	(1.004)	1262	0.02804	0.02804
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	Compound Not Detected.					
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	16.253	16.268	(1.062)	33209	0.52077	0.5208
	49	Fluorene	166	16.415	16.423	(1.073)	1686	0.02349	0.02349
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55	2,4,6-Tribromophenol	330	16.947	16.955	(1.108)	47380	5.89282	5.893
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	18.353	18.361	(1.000)	280620	4.00000	
	60	Phenanthrene	178	18.400	18.408	(1.003)	22049	0.30136	0.3014
	61	Anthracene	178	18.493	18.500	(1.008)	4041	0.05785	0.05785
	62	Carbazole	167	18.825	18.825	(1.026)	2202	0.03261	0.03261
	63	Di-n-butylphthalate	149	19.607	19.614	(1.068)	2109	0.02771	0.02771
	64	Fluoranthene	202	20.783	20.791	(0.888)	50746	0.71208	0.7121
	65	Pyrene	202	21.208	21.216	(0.906)	73589	0.98212	0.9821
$	66	Terphenyl-d14	244	21.487	21.495	(0.918)	236433	4.45018	4.450
	67	Butylbenzylphthalate	149	Compound Not Detected.					
	68	Benzo(a)anthracene	228	23.368	23.376	(0.999)	19873	0.29640	0.2964
*	69	Chrysene-d12	240	23.399	23.399	(1.000)	221328	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	23.438	23.446	(1.002)	25860	0.40833	0.4083
	72	bis(2-Ethylhexyl)phthalate	149	23.423	23.430	(0.959)	20903	0.47269	0.4727
*	134	Di-n-octylphthalate-d4	153	24.413	24.421	(1.000)	398181	4.00000	
	73	Di-n-octylphthalate	149	24.437	24.429	(1.001)	16233	0.16984	0.1698
	74	Benzo(b)fluoranthene	252	25.288	25.296	(0.969)	26077	0.40176	0.4018
	75	Benzo(k)fluoranthene	252	25.327	25.335	(0.971)	29922	0.45293	0.4529(M)
	76	Benzo(a)pyrene	252	25.962	25.970	(0.995)	21008	0.38934	0.3893
*	77	Perylene-d12	264	26.086	26.086	(1.000)	206533	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.830	28.838	(1.105)	7884	0.12853	0.1285
	79	Dibenzo(a,h)anthracene	278	28.838	28.853	(1.105)	1965	0.03770	0.03770(M)
	80	Benzo(g,h,i)perylene	276	29.653	29.653	(1.137)	6048	0.11770	0.1177
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	Compound Not Detected.					
	105	1-methylnaphthalene	142	Compound Not Detected.					
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.288	25.335	(0.969)	52182	0.83156	0.8316
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123076.D
Lab Smp Id: 22L0136-08
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Misc Info:

Calibration Date: 31-DEC-2022
Calibration Time: 23:30
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138755	69378	277510	90666	-34.66
27 Naphthalene-d8	501723	250862	1003446	324201	-35.38
42 Acenaphthene-d10	275234	137617	550468	166361	-39.56
59 Phenanthrene-d10	440085	220043	880170	280620	-36.24
69 Chrysene-d12	384795	192398	769590	221328	-42.48
134 Di-n-octylphthala	674530	337265	1349060	398181	-40.97
77 Perylene-d12	336665	168333	673330	206533	-38.65

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	-0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	-0.07
42 Acenaphthene-d10	15.31	14.81	15.81	15.30	-0.05
59 Phenanthrene-d10	18.36	17.86	18.86	18.35	-0.04
69 Chrysene-d12	23.40	22.90	23.90	23.40	-0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.41	-0.03
77 Perylene-d12	26.09	25.59	26.59	26.09	-0.00

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

REVIEW SUMMARY FOR FILE - NT1422123076.D

Lab ID: 22L0136-08
nt14.i, 20221230C.b\ABN.m,   01-JAN-2023 05:29

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

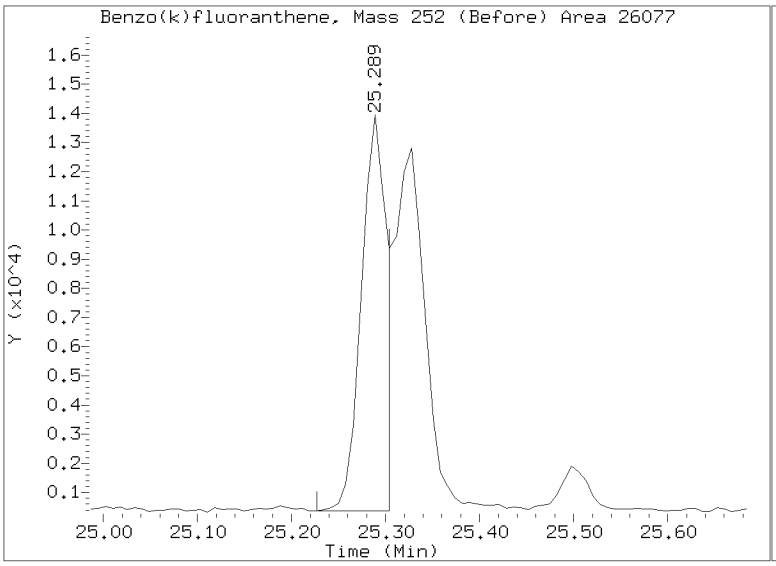
RRT check based on Ccal File: NT1422123066.D

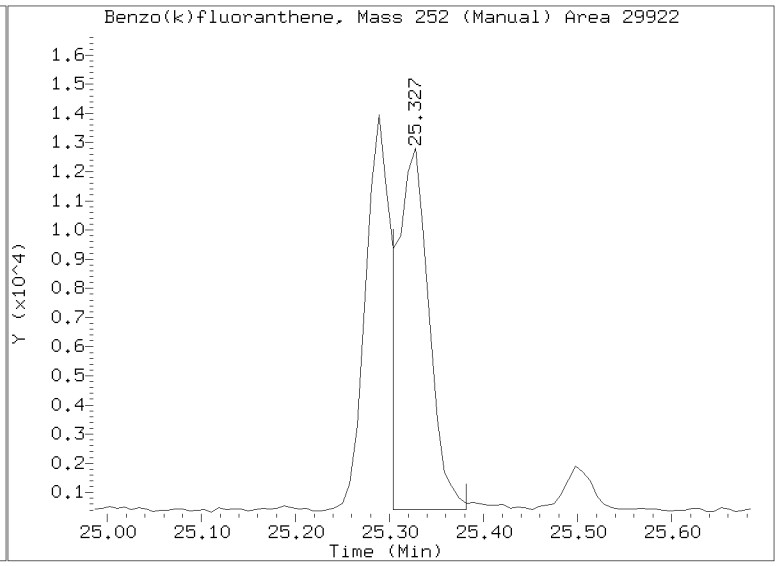
On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

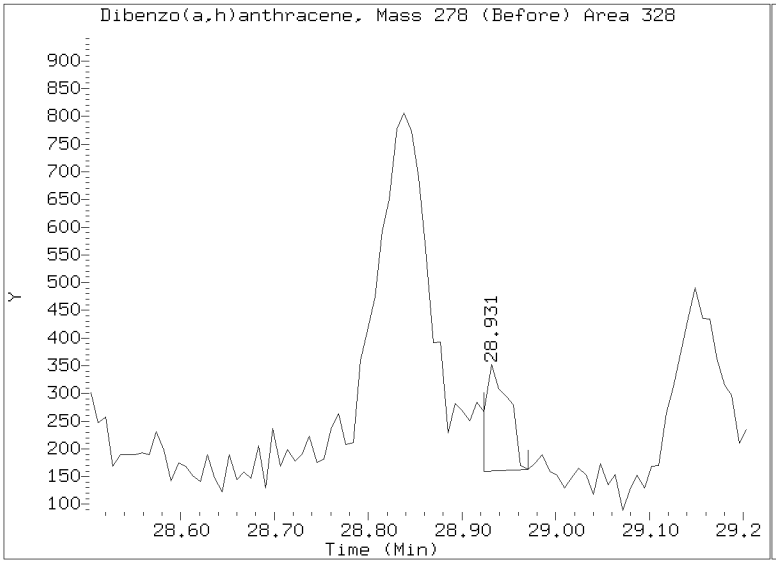
* Only compounds listed in the work order have been verified by the analyst *

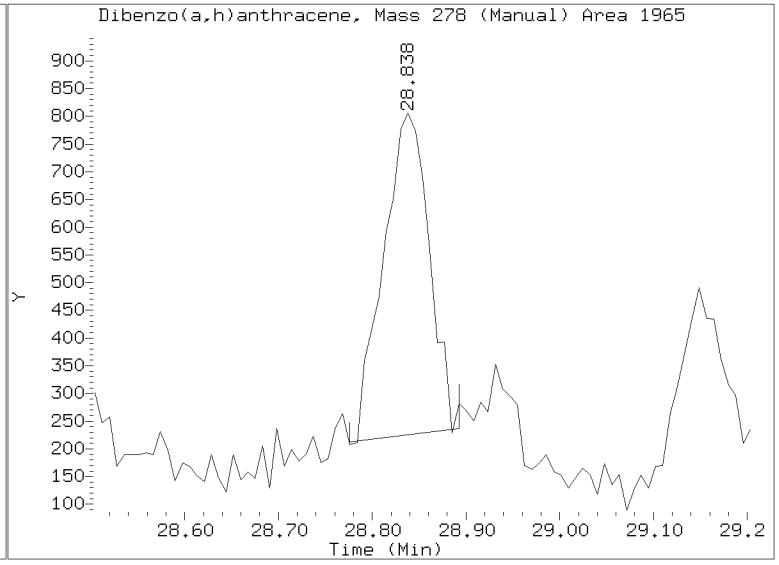
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230C.b/NT1422123076.D
Injection Date: 01-JAN-2023 05:29
Lab ID:22L0136-08 Client ID:
Report Date: 01/05/2023 13:44









Analytical Resources, LLC
Analytical Chemists and Consultants

LDW22-SS766

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

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

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-09 A	SDG:	22L0136
Sampled:	12/06/22 13:16	Prepared:	12/09/22 14:39	File ID:	NT1422123077.D
% Solids:	75.46	Preparation:	EPA 3546 (Microwave)	Analyzed:	01/01/23 06:05
Batch:	BKL0193	Sequence:	SKL0355	Initial/Final:	13.27 g Wet / 1 mL
Instrument:	NT14	Column:	ZB-5MS	Calibration:	FL00066
Cleanups:	GPC				

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
108-95-2	Phenol	1	5.5	J	4.4	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
Phenol-d5	748.99	529	70.6	29 - 120	

Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123077.D

Date : 01-JAN-2023 06:05

Client ID:

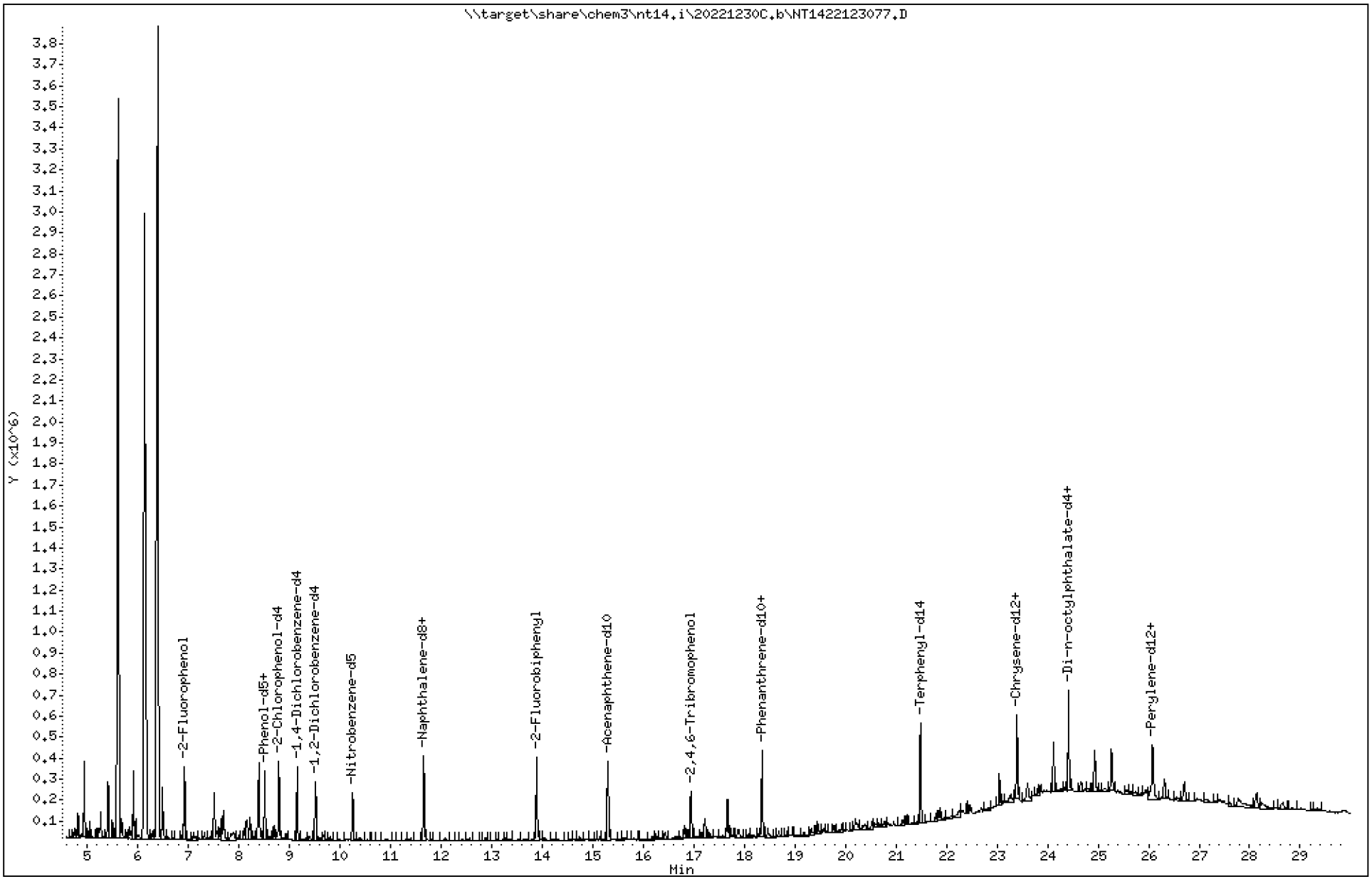
Sample Info: 22L0139-09

Column phase: ZB-5msi

Instrument: nt14.i

Operator: VTS

Column diameter: 0.25



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Date : 01-JAN-2023 06:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0139-09

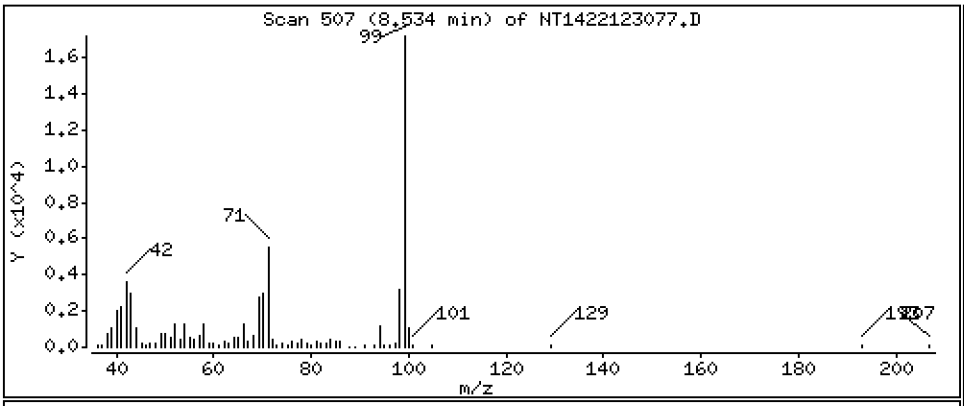
Operator: VTS

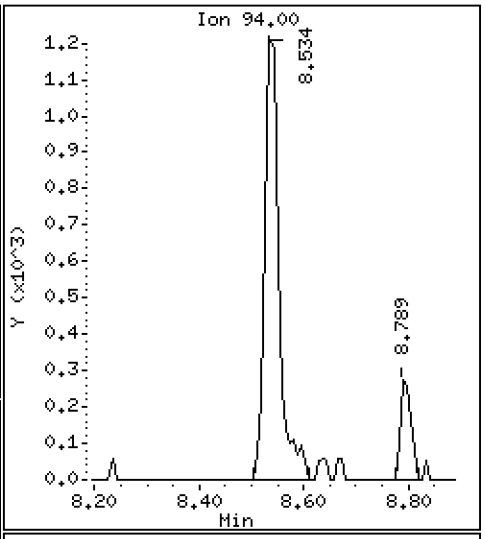
Column phase: ZB-5msi

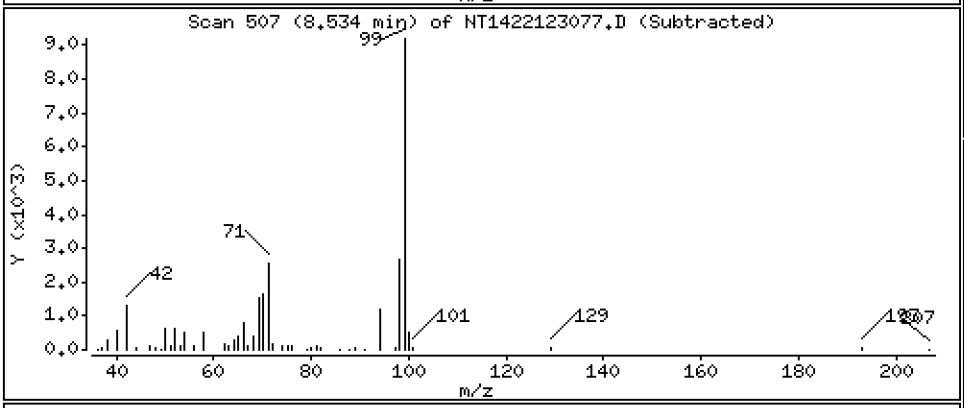
Column diameter: 0.25

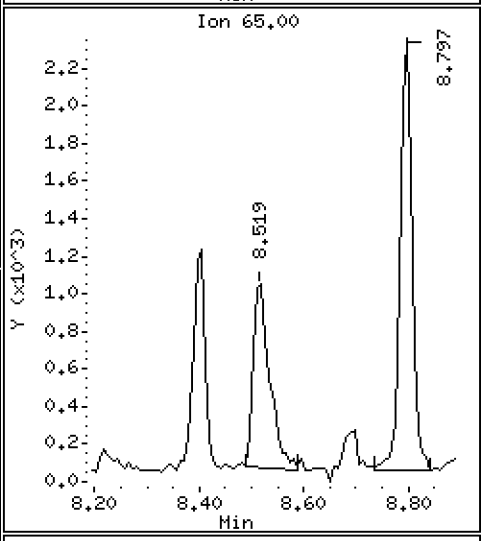
3 Phenol

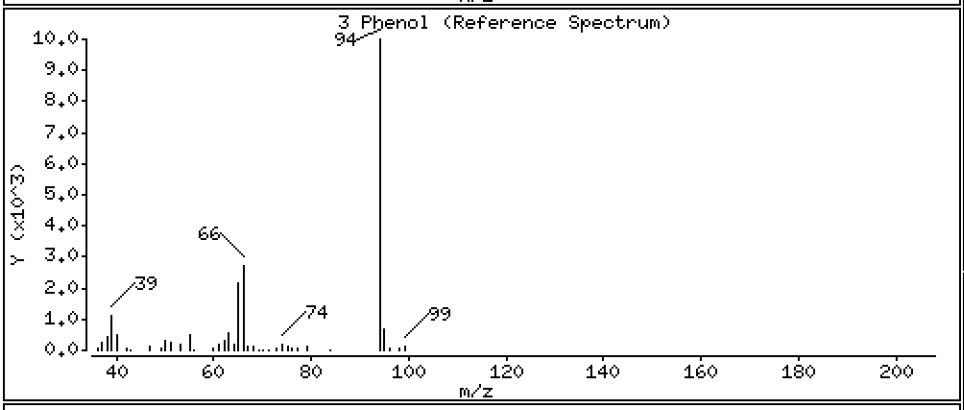
Concentration: 0.05543 ug/mL

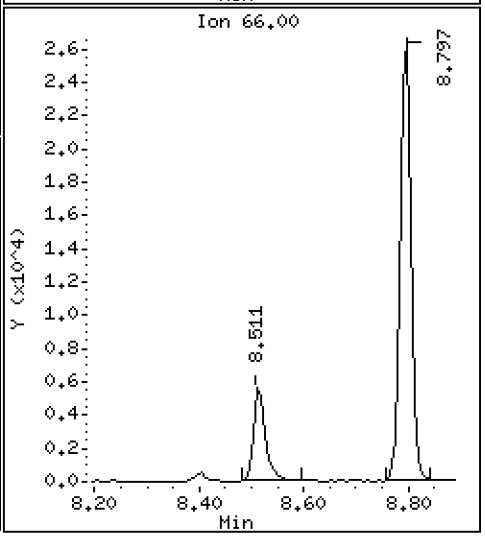


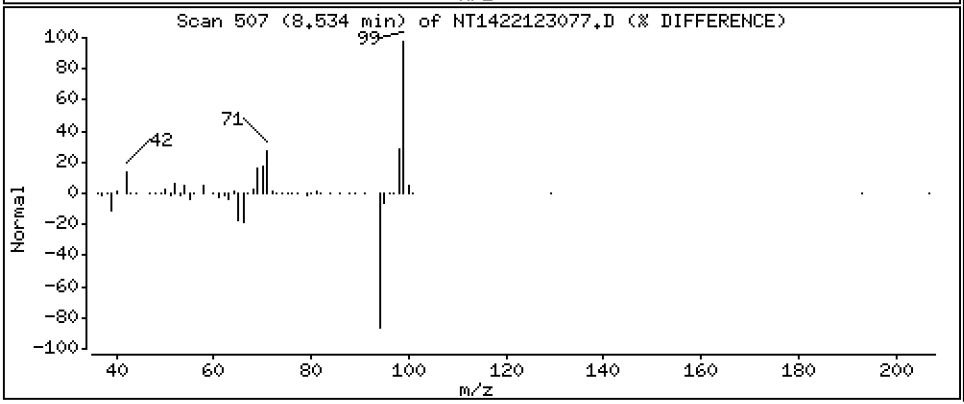












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Date : 01-JAN-2023 06:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0139-09

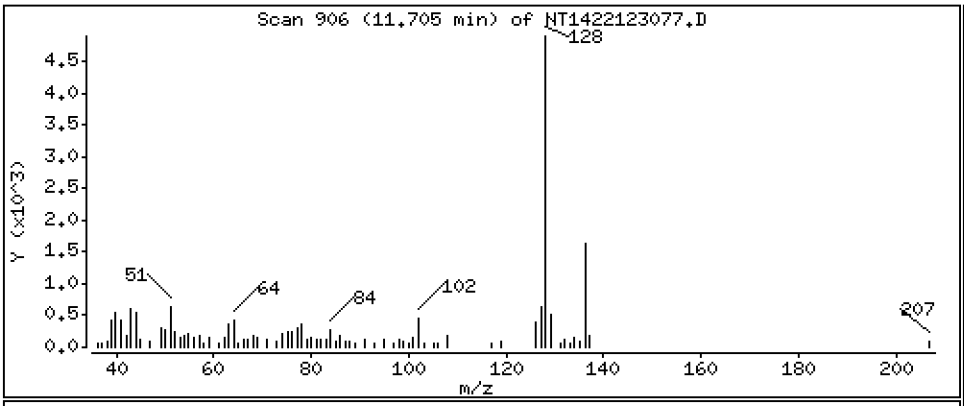
Operator: VTS

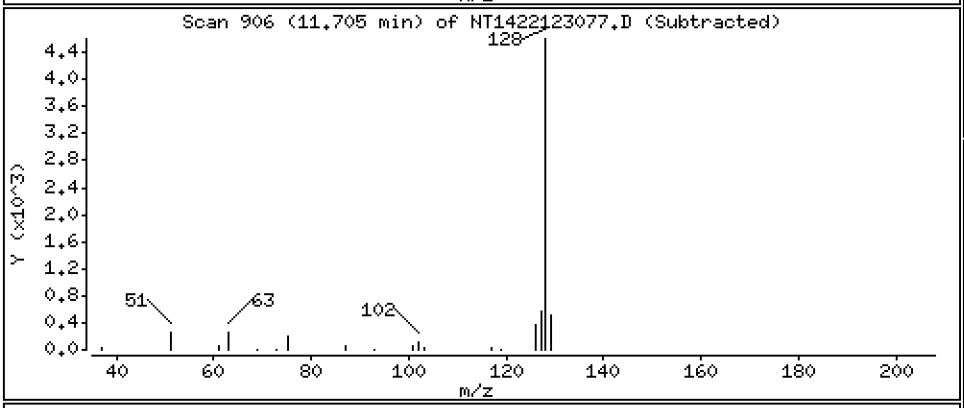
Column phase: ZB-5msi

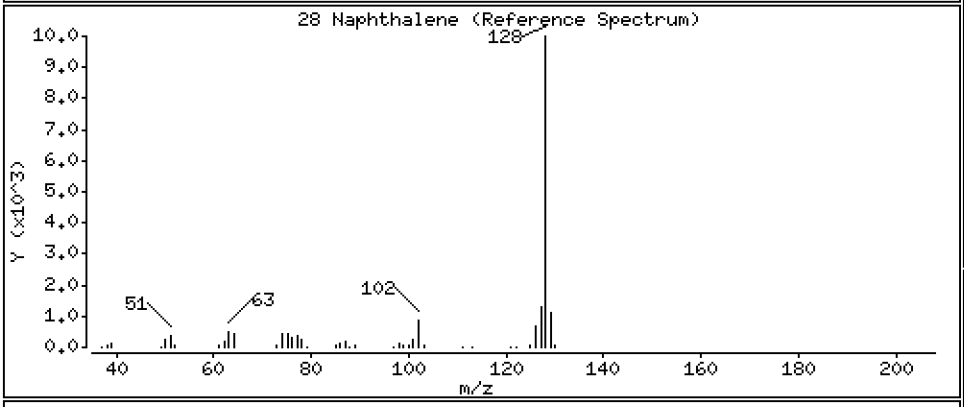
Column diameter: 0.25

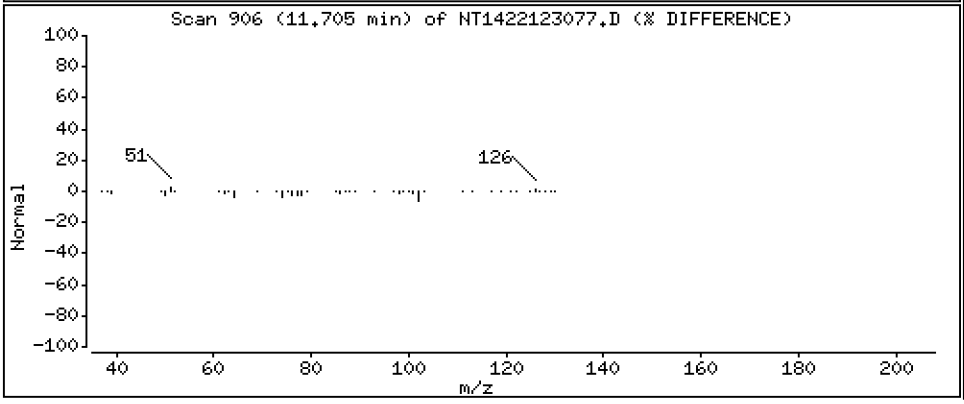
28 Naphthalene

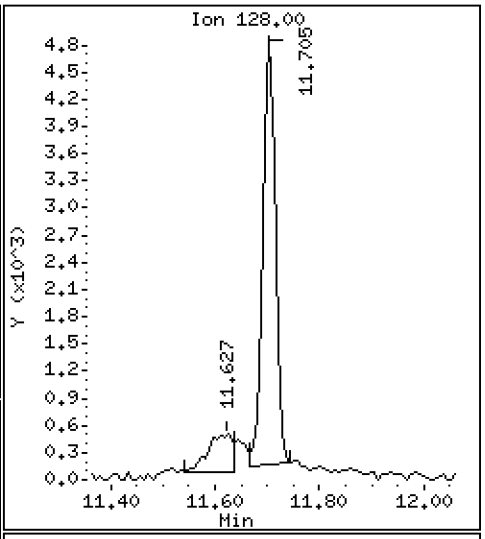
Concentration: 0.09433 ug/mL

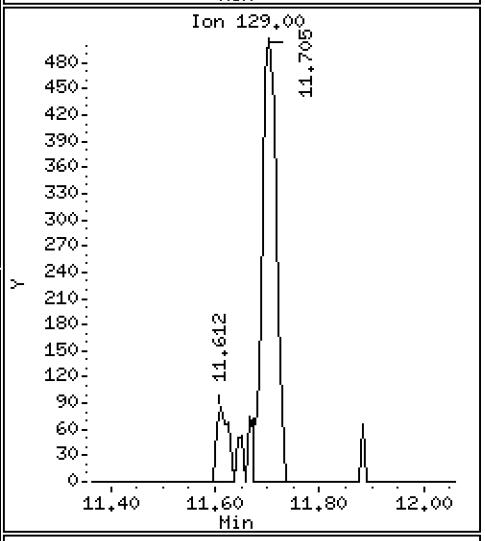


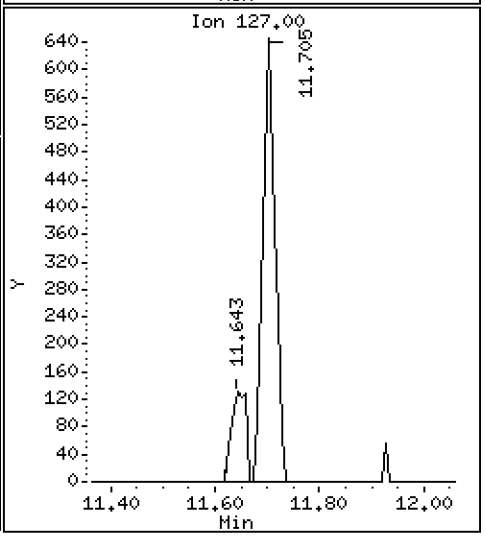












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Date : 01-JAN-2023 06:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0139-09

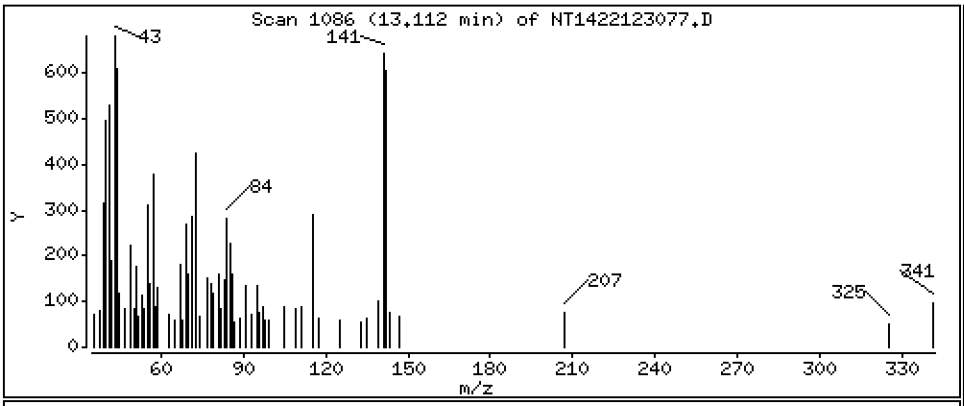
Operator: VTS

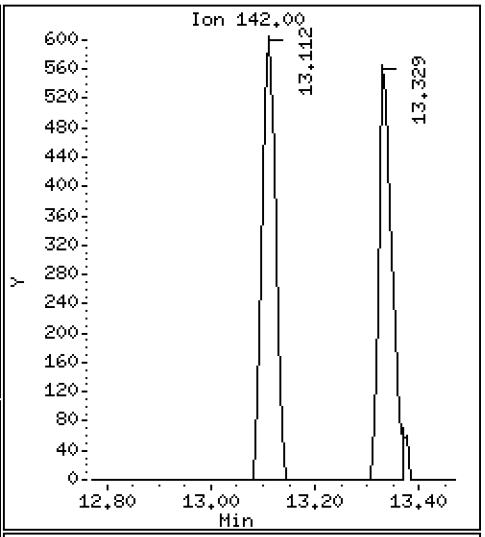
Column phase: ZB-5msi

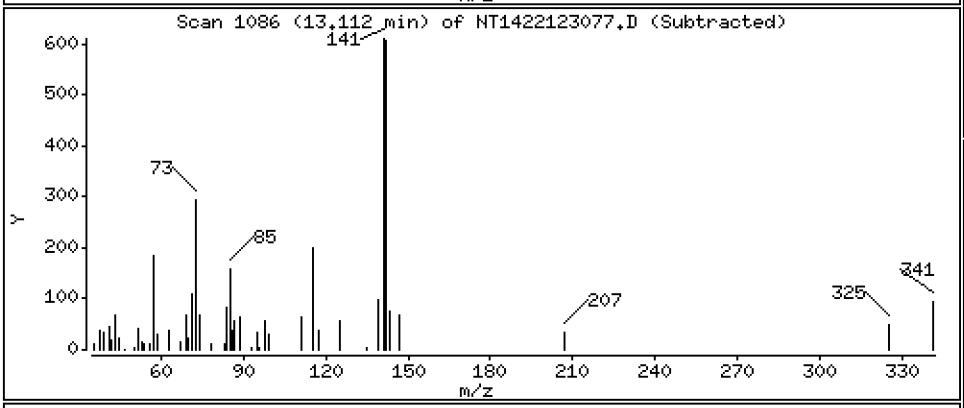
Column diameter: 0.25

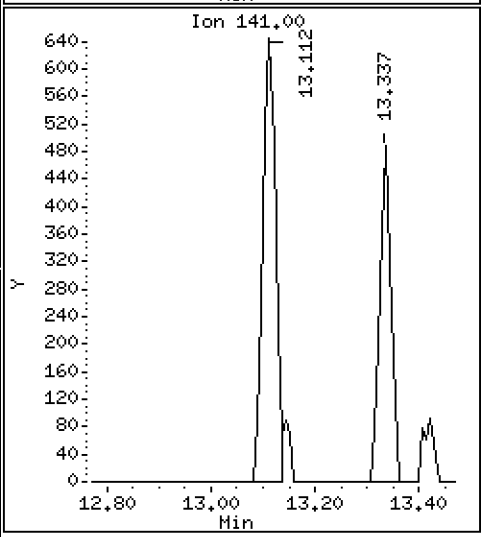
32 2-Methylnaphthalene

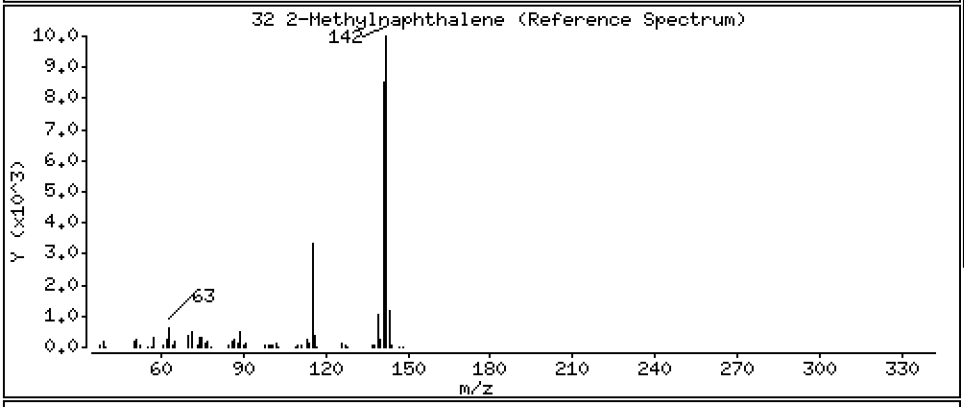
Concentration: 0.01792 ug/mL

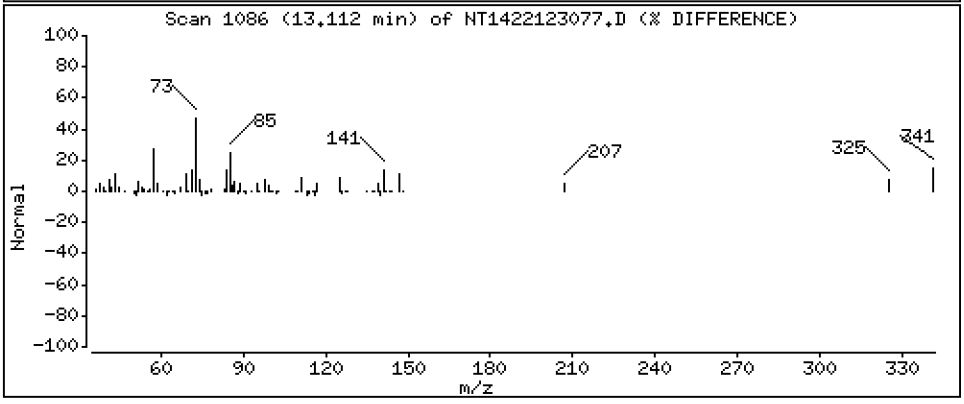












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Date : 01-JAN-2023 06:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0139-09

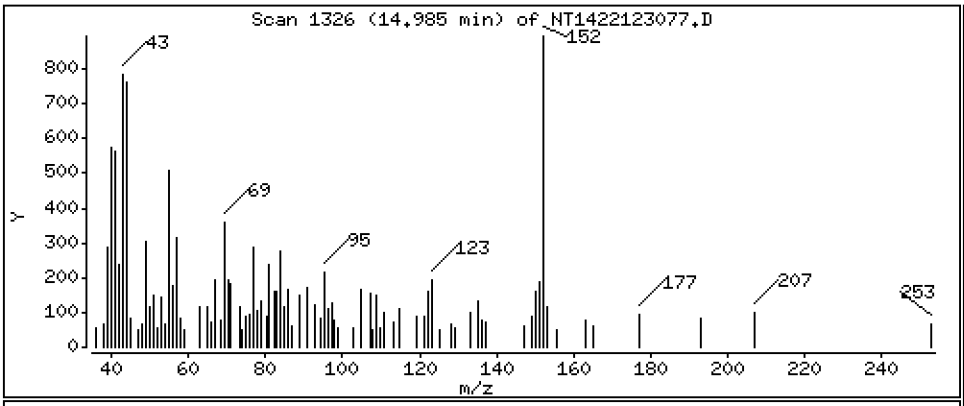
Operator: VTS

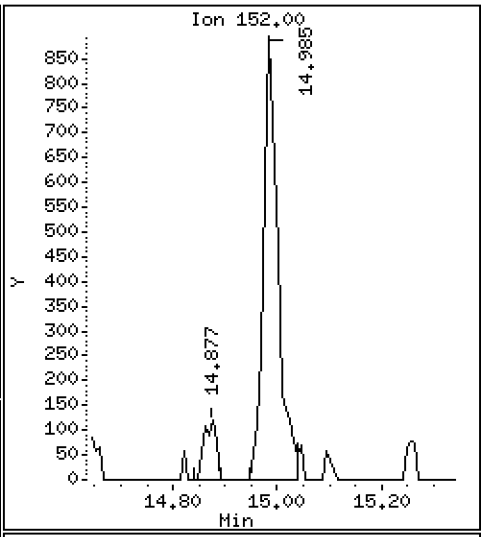
Column phase: ZB-5msi

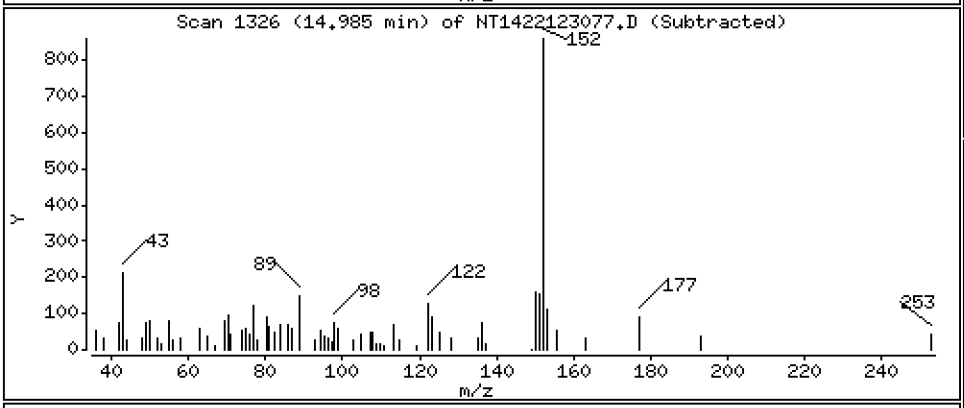
Column diameter: 0.25

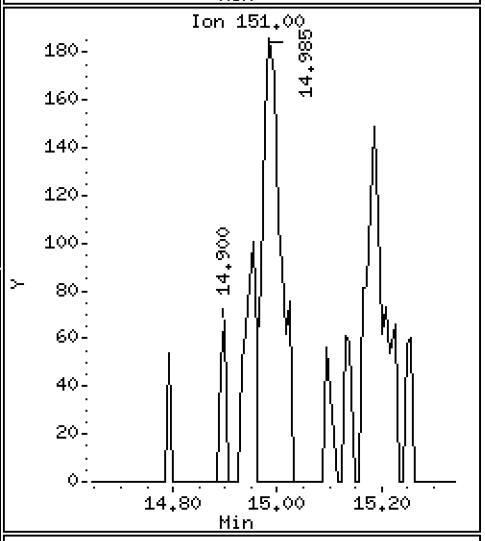
40 Acenaphthylene

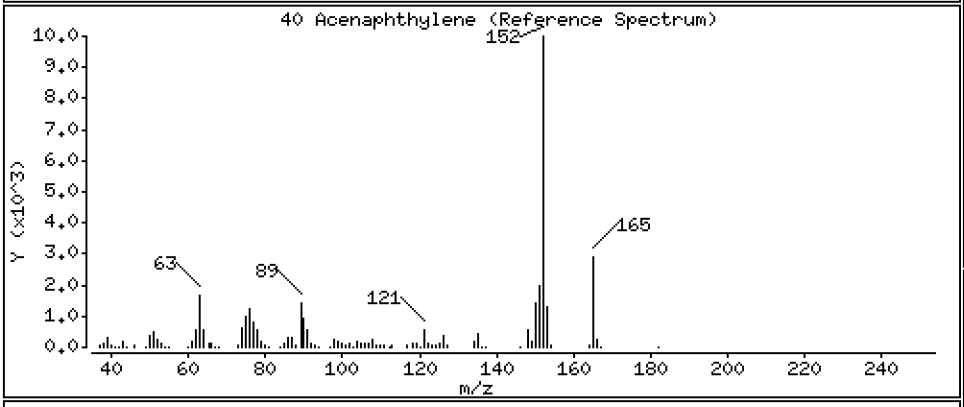
Concentration: 0.02337 ug/mL

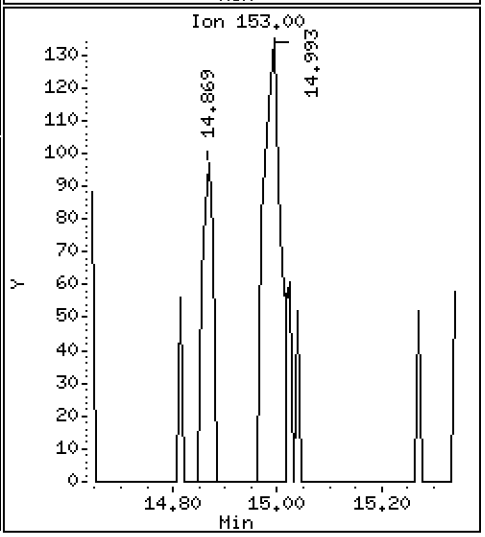


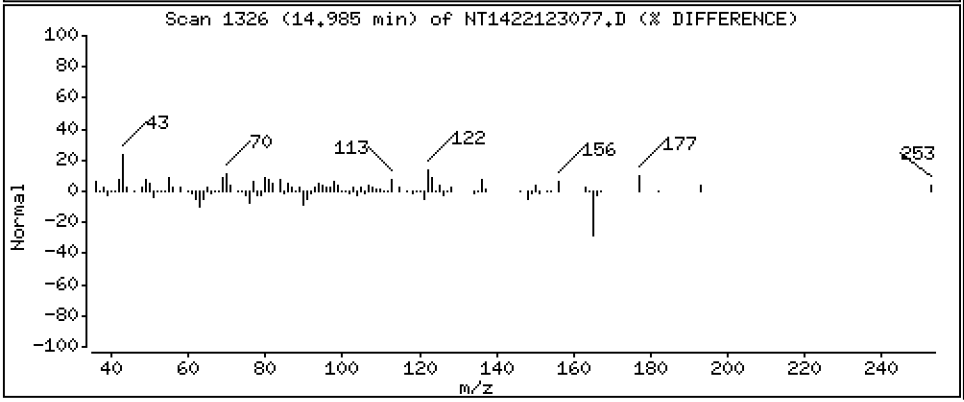












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Date : 01-JAN-2023 06:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0139-09

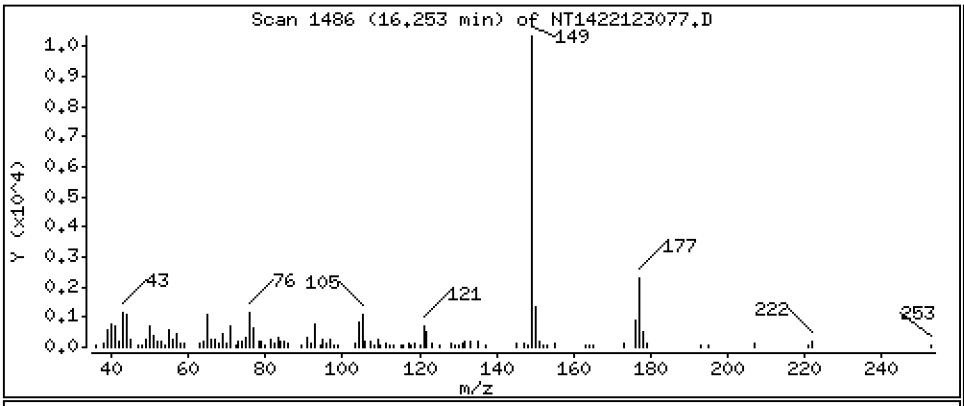
Operator: VTS

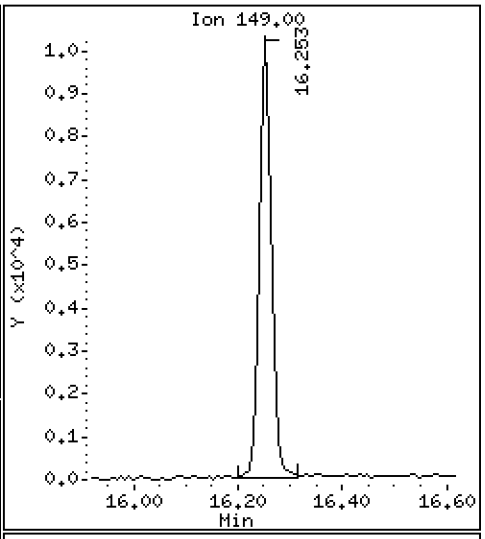
Column phase: ZB-5msi

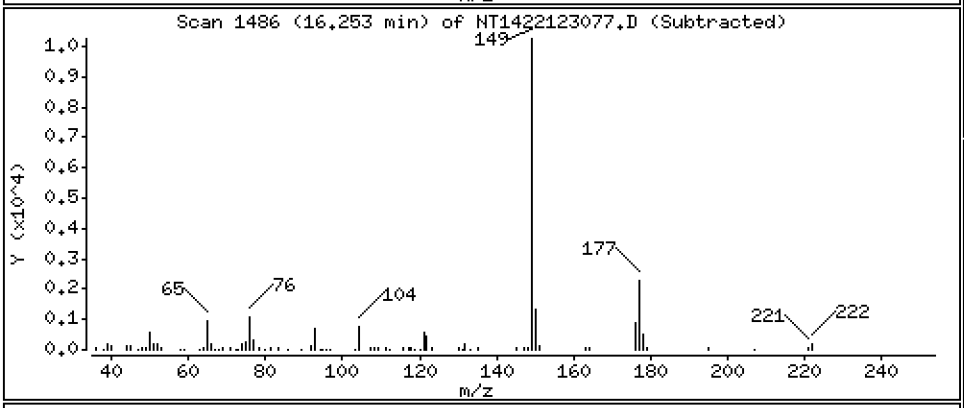
Column diameter: 0.25

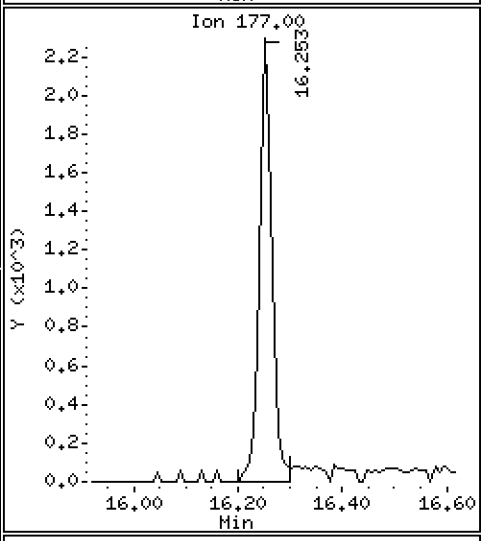
50 Diethylphthalate

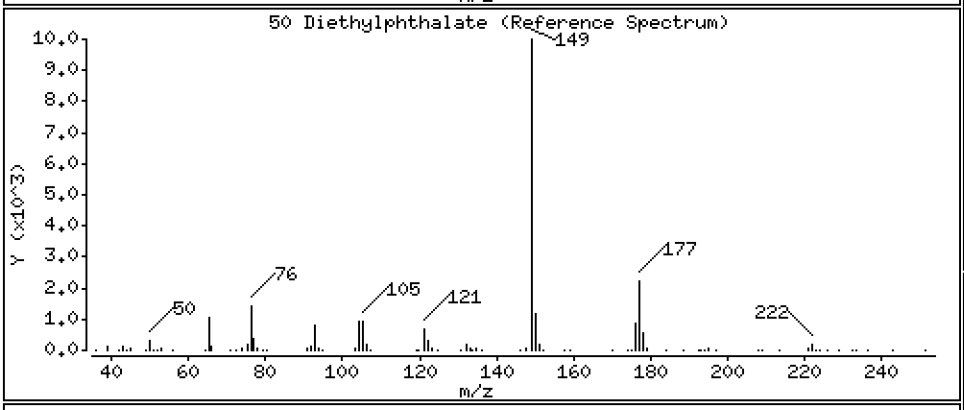
Concentration: 0.2937 ug/mL

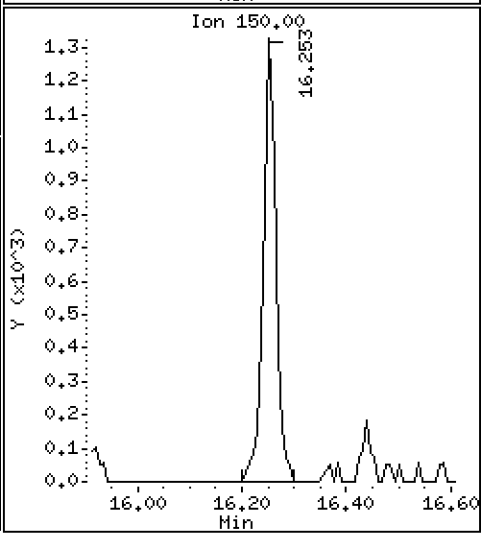


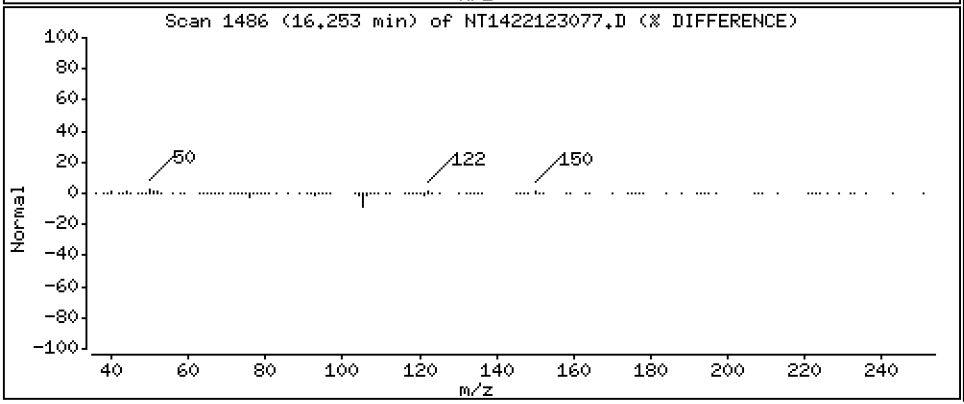












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123077.D

Date : 01-JAN-2023 06:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0139-09

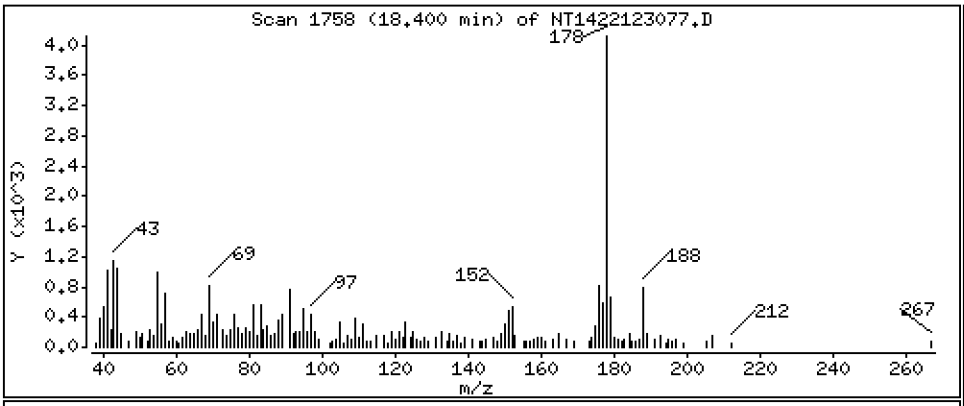
Operator: VTS

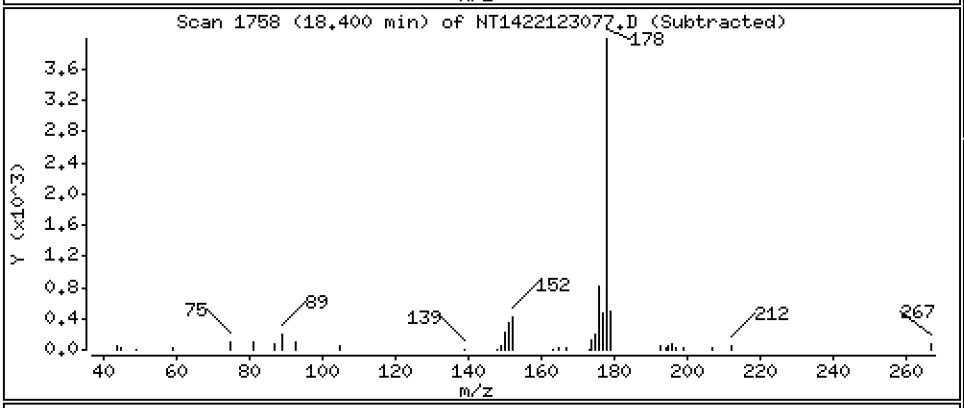
Column phase: ZB-5msi

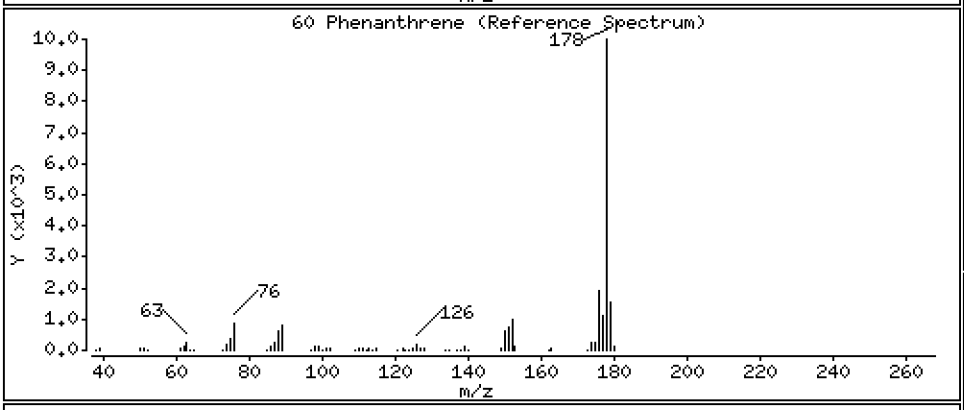
Column diameter: 0.25

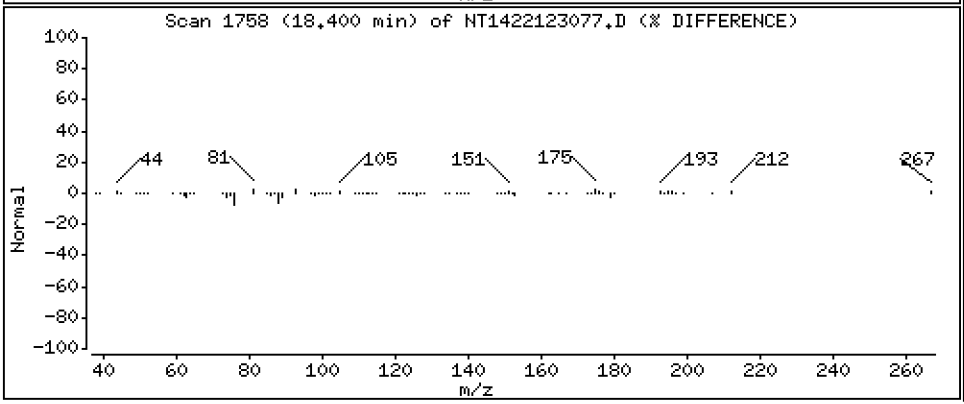
60 Phenanthrene

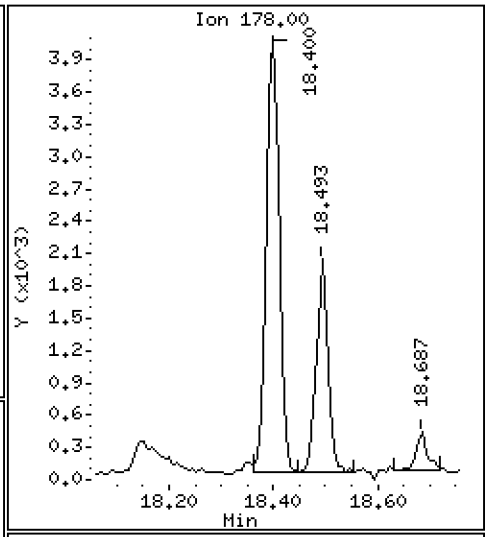
Concentration: 0.09233 ug/mL

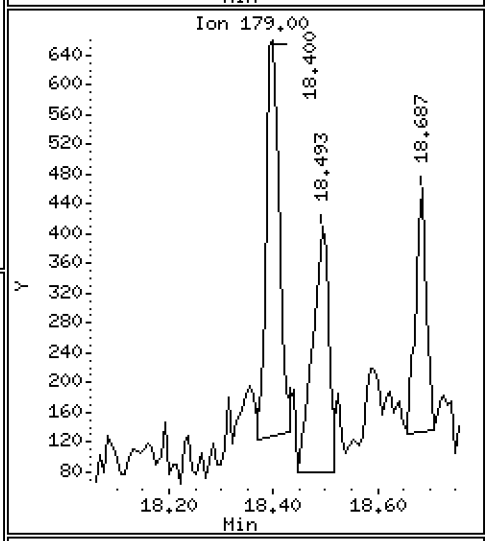


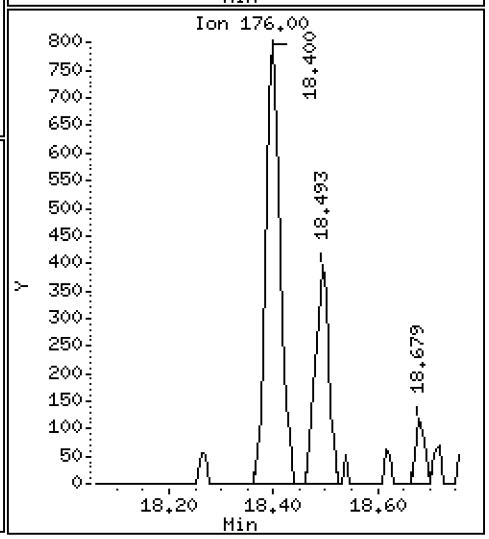












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123077.D

Date : 01-JAN-2023 06:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0139-09

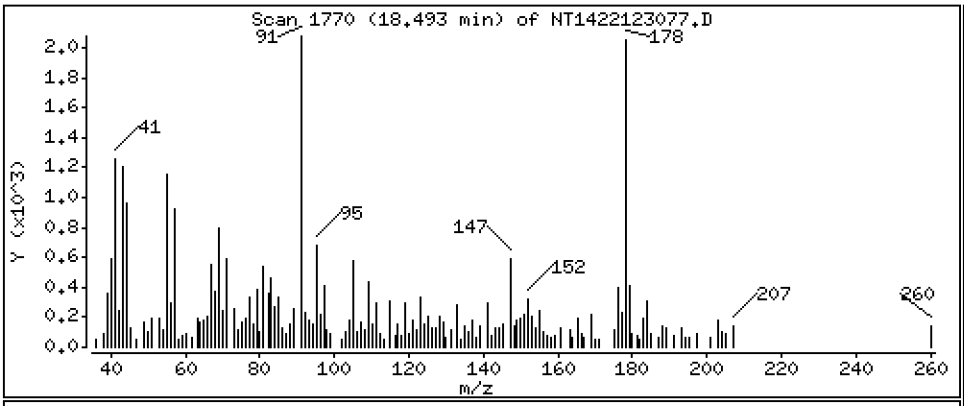
Operator: VTS

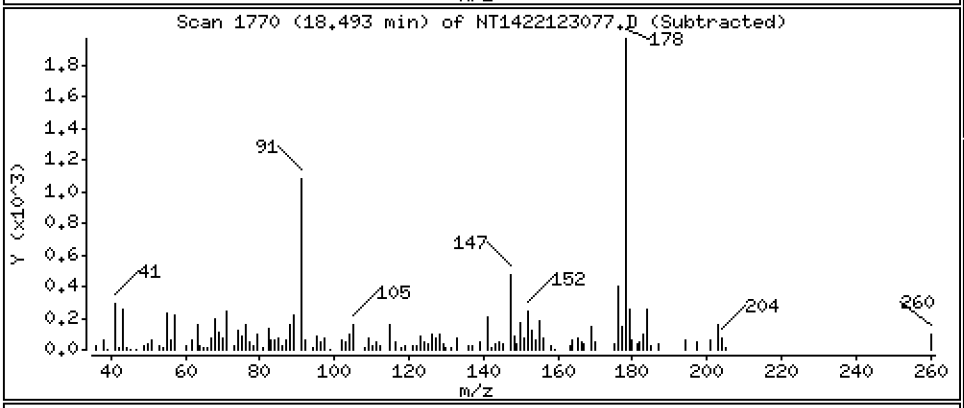
Column phase: ZB-5msi

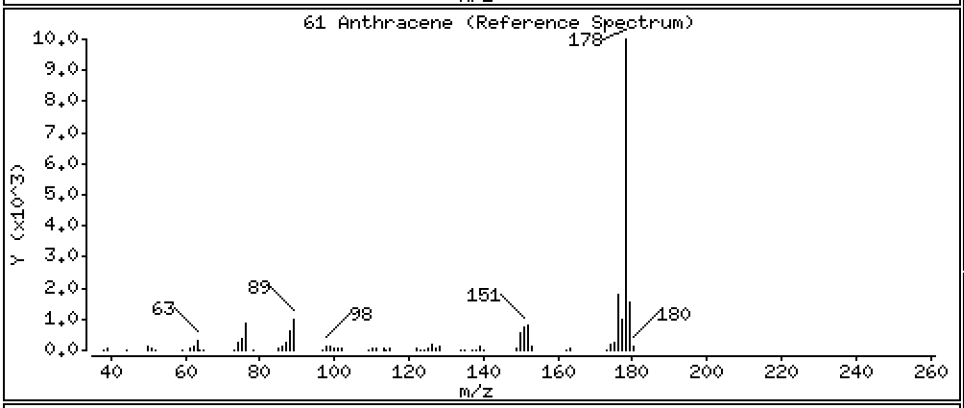
Column diameter: 0.25

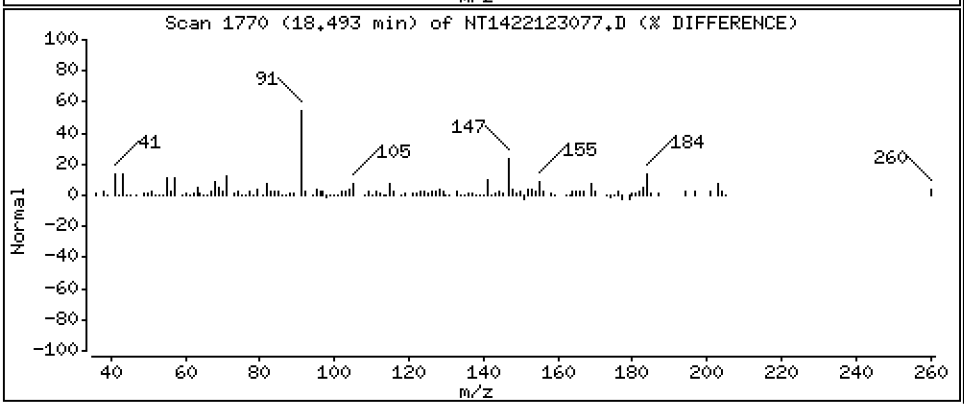
61 Anthracene

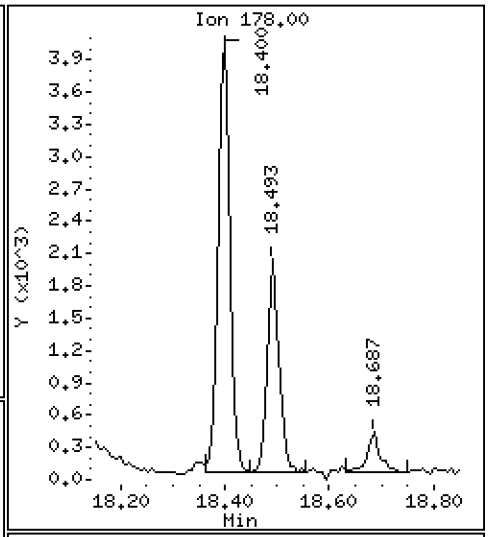
Concentration: 0.04422 ug/mL

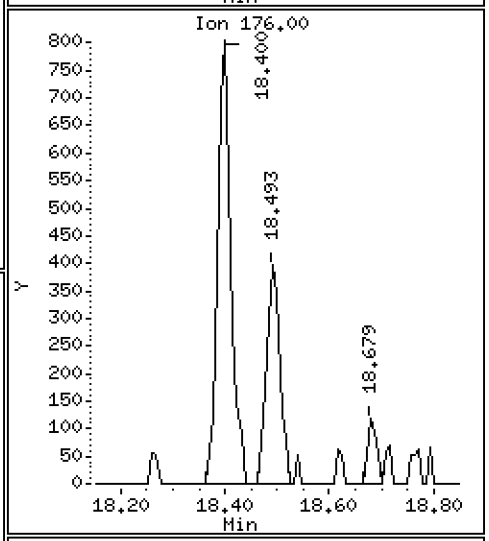


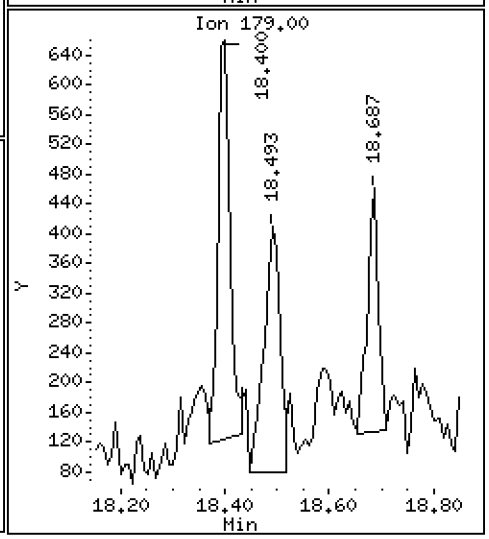












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Date : 01-JAN-2023 06:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0139-09

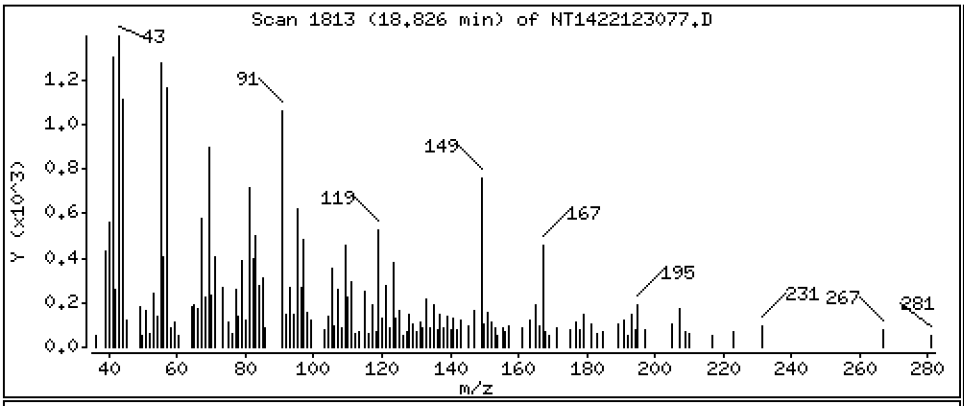
Operator: VTS

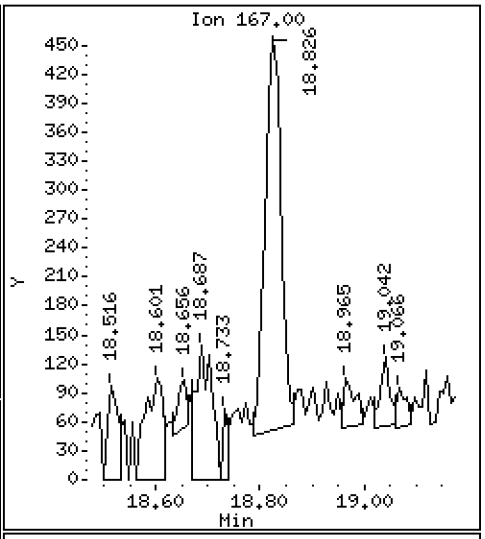
Column phase: ZB-5msi

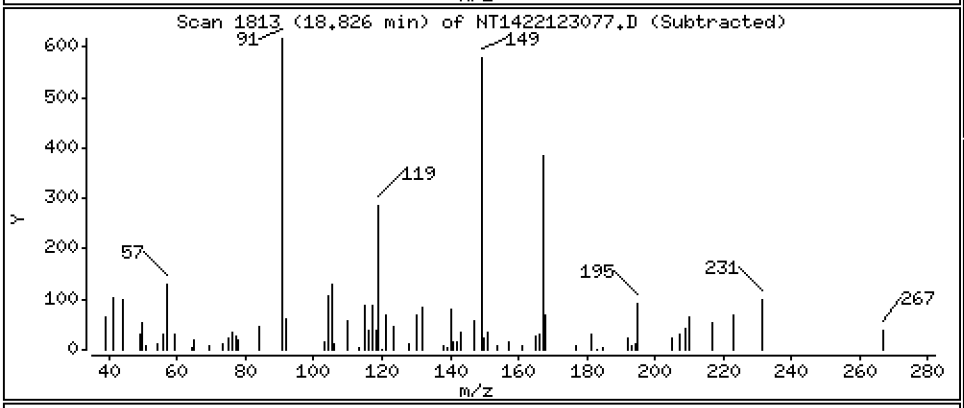
Column diameter: 0.25

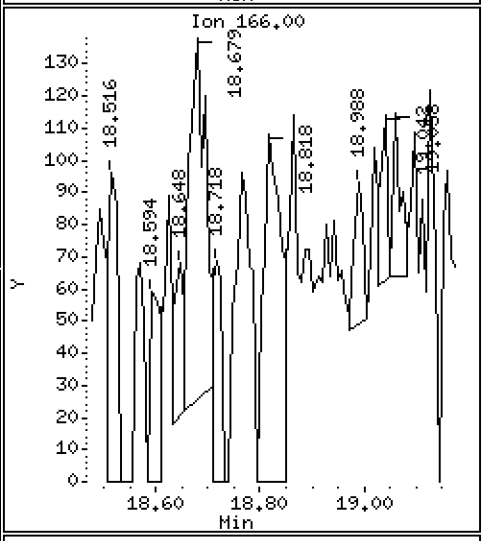
62 Carbazole

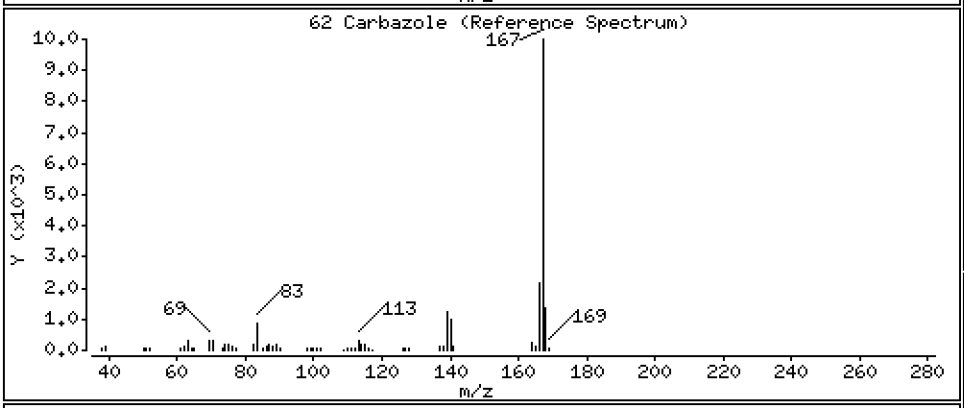
Concentration: 0.01269 ug/mL

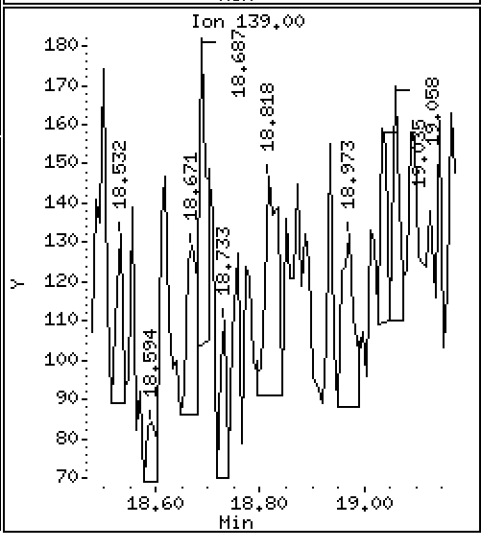


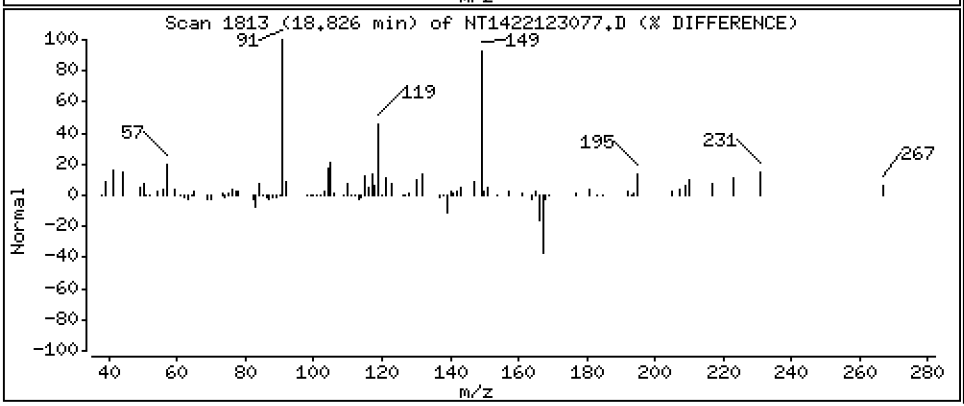












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Date : 01-JAN-2023 06:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0139-09

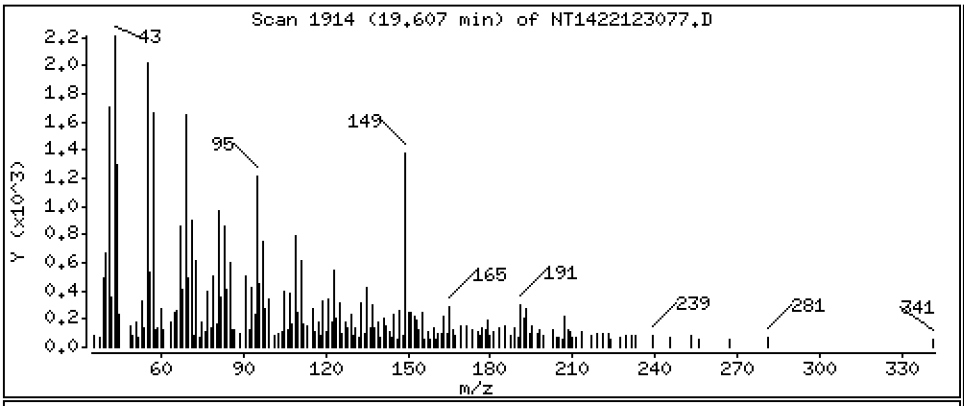
Operator: VTS

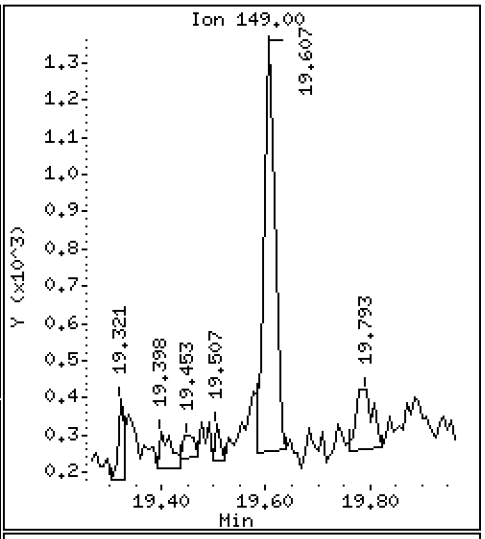
Column phase: ZB-5msi

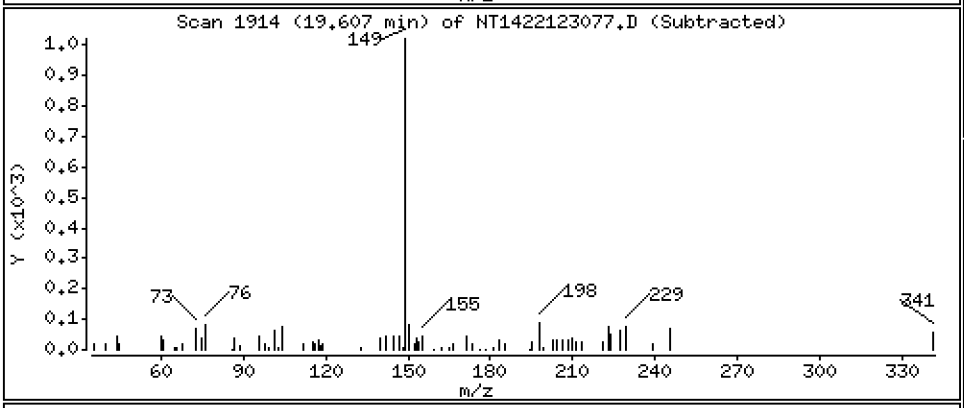
Column diameter: 0.25

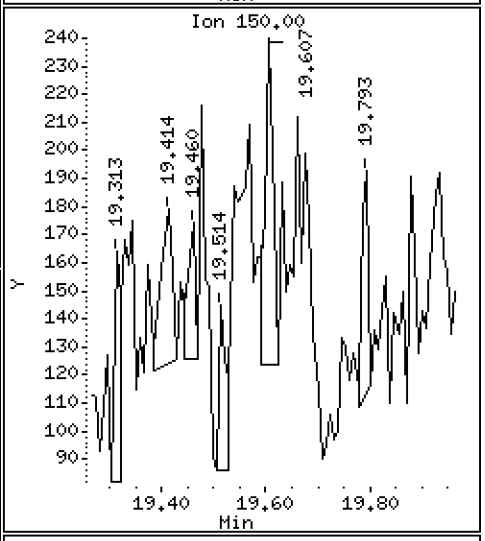
63 Di-n-butylphthalate

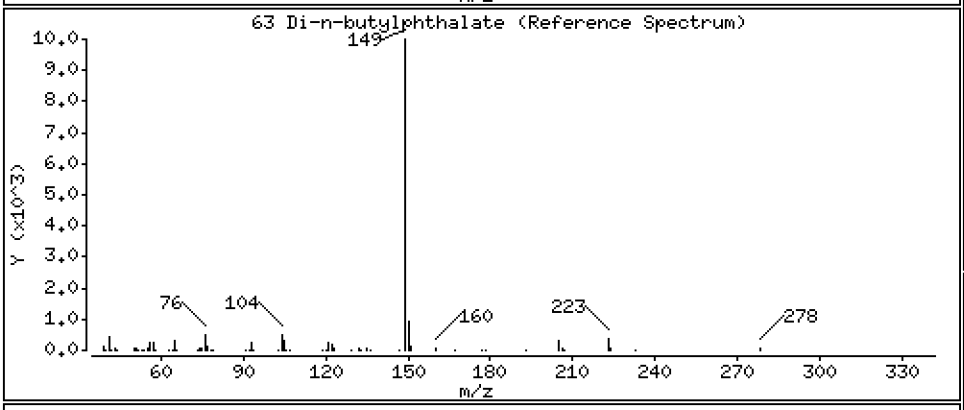
Concentration: 0.02042 ug/mL

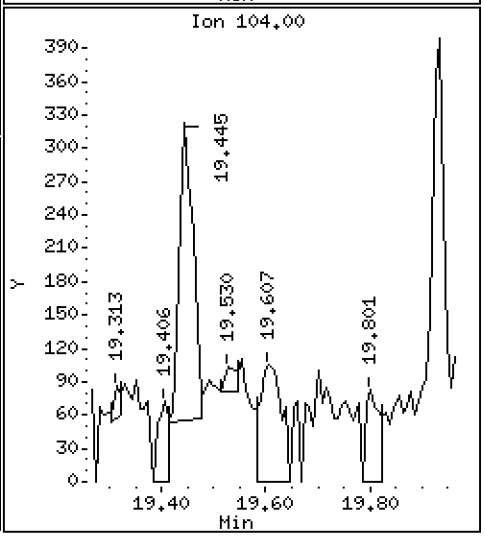


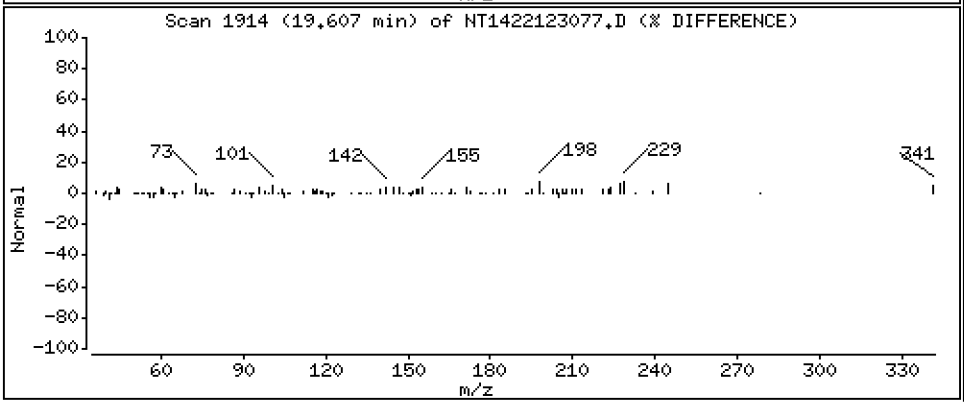












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Date : 01-JAN-2023 06:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0139-09

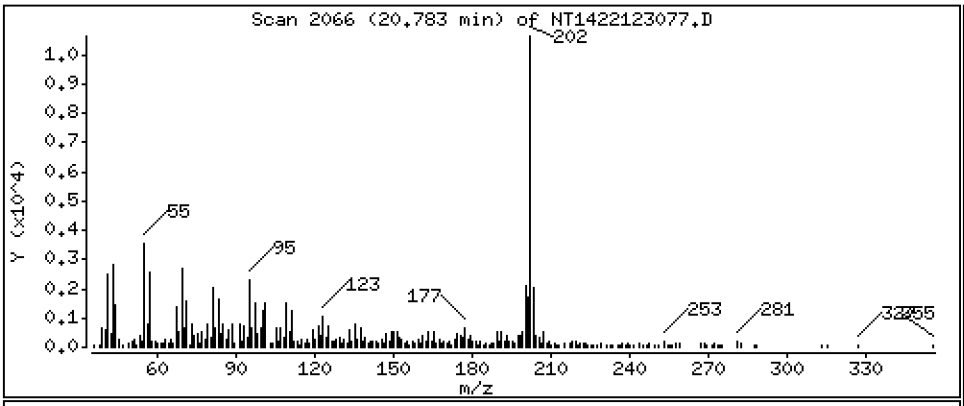
Operator: VTS

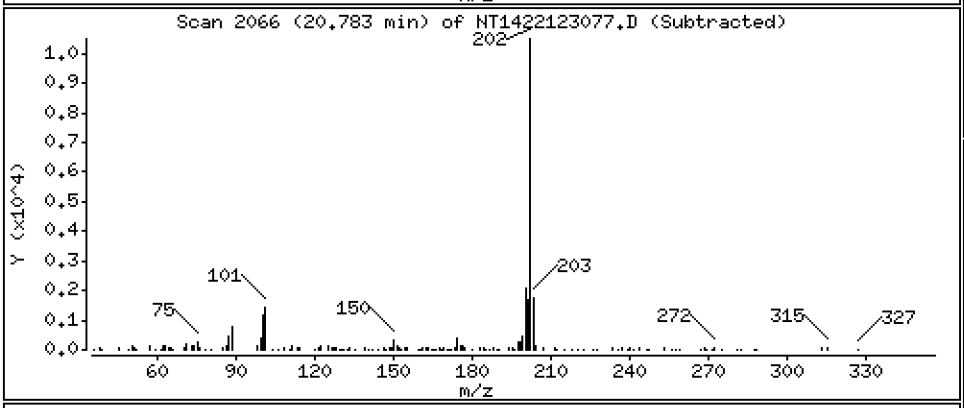
Column phase: ZB-5msi

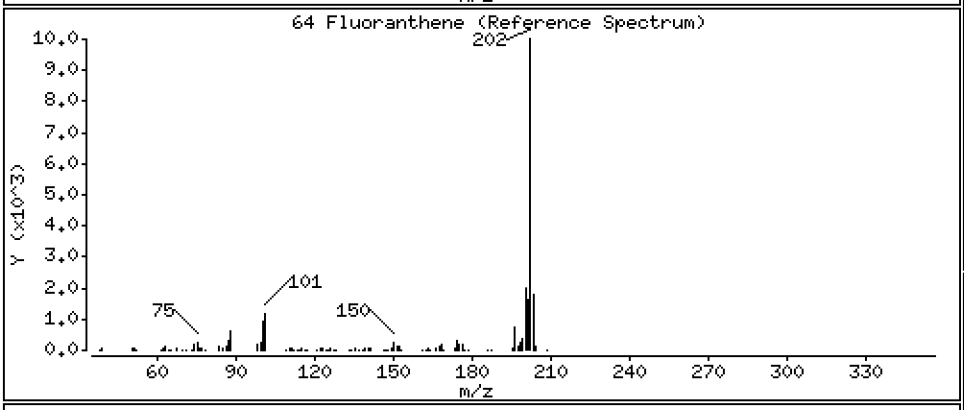
Column diameter: 0.25

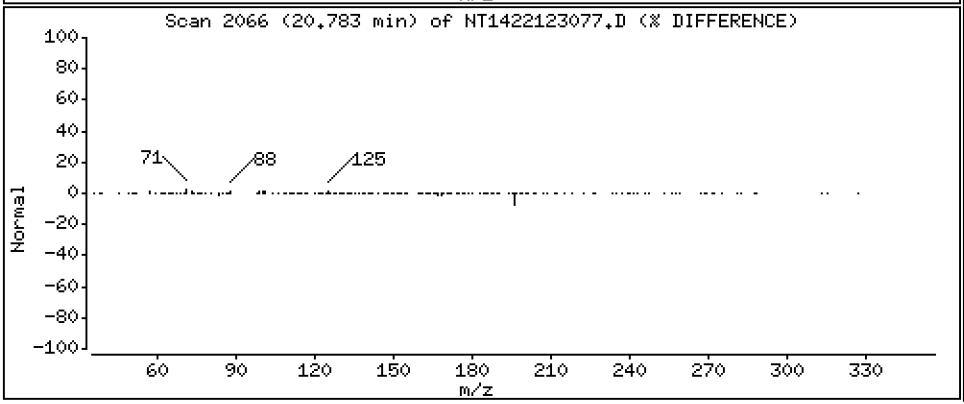
64 Fluoranthene

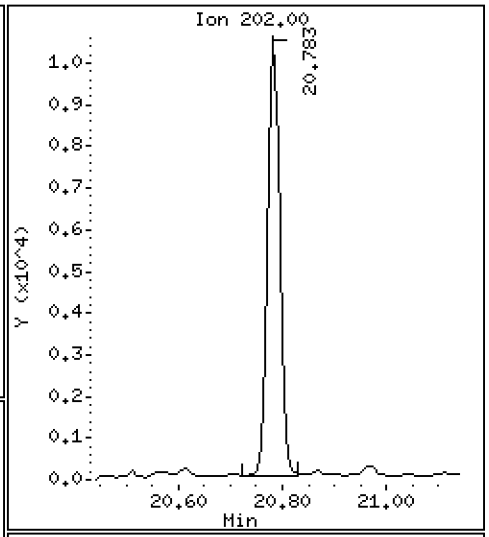
Concentration: 0.2319 ug/mL

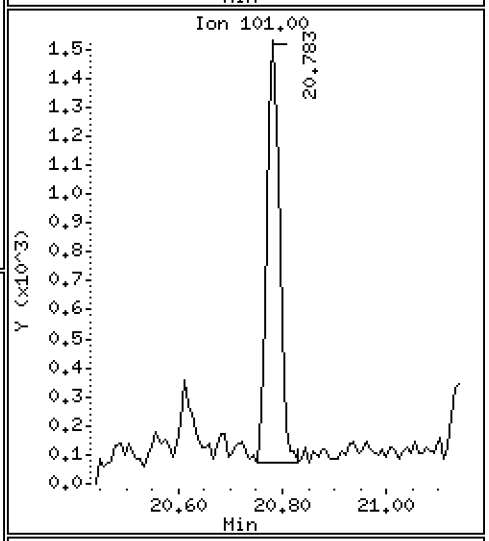


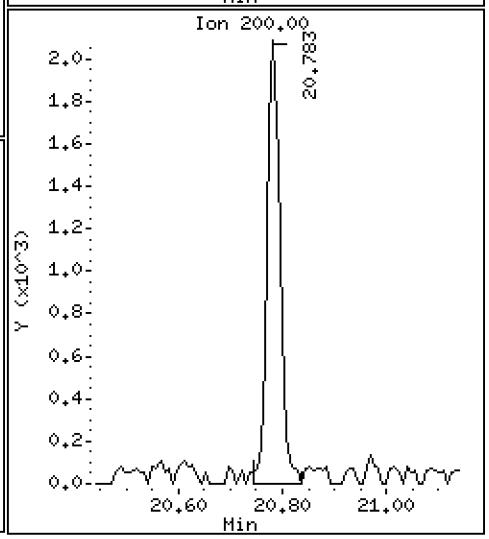












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Date : 01-JAN-2023 06:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0139-09

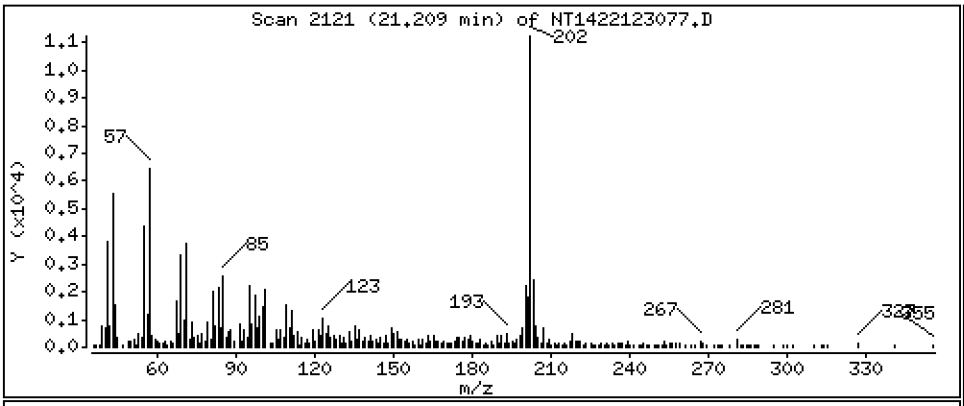
Operator: VTS

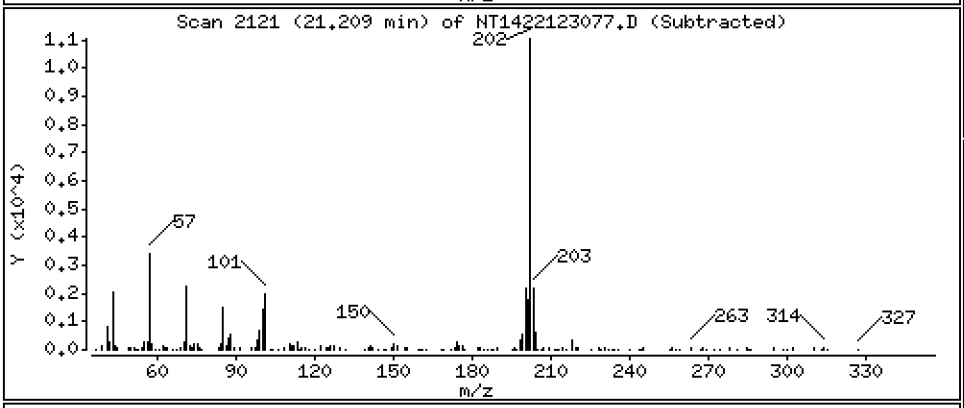
Column phase: ZB-5msi

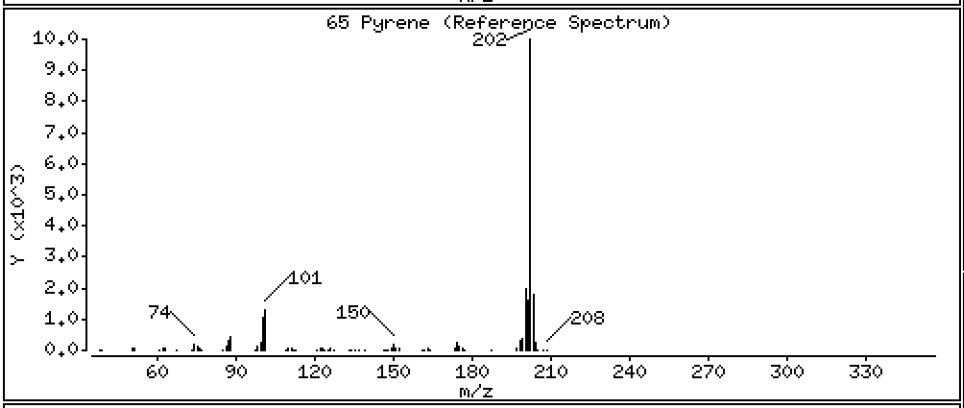
Column diameter: 0.25

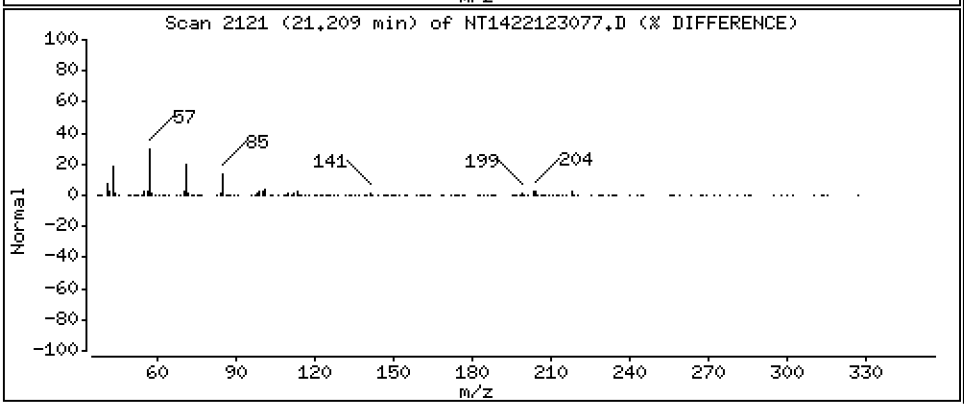
65 Pyrene

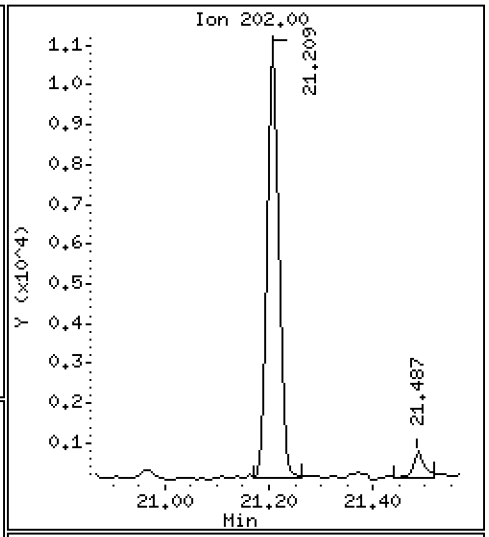
Concentration: 0.2301 ug/mL

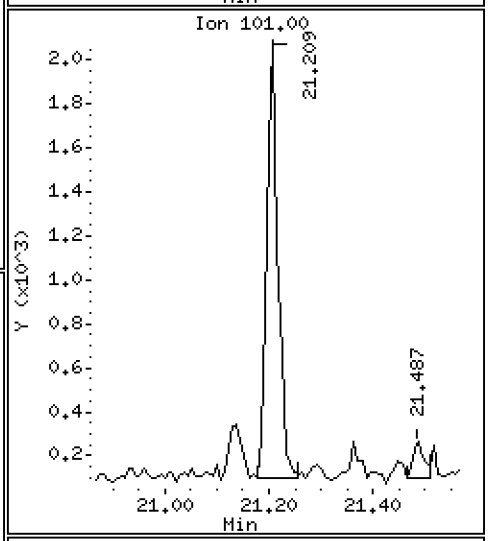


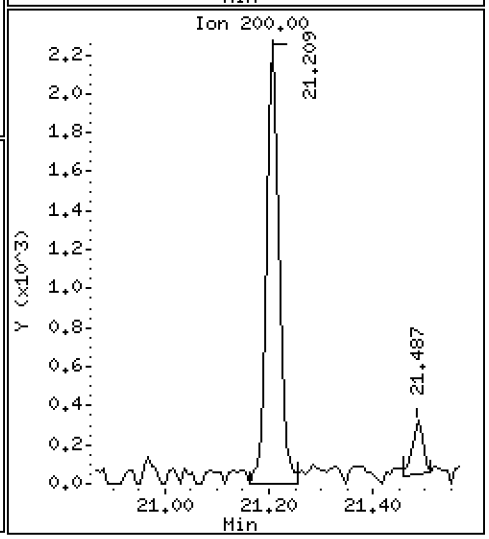












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Date : 01-JAN-2023 06:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0139-09

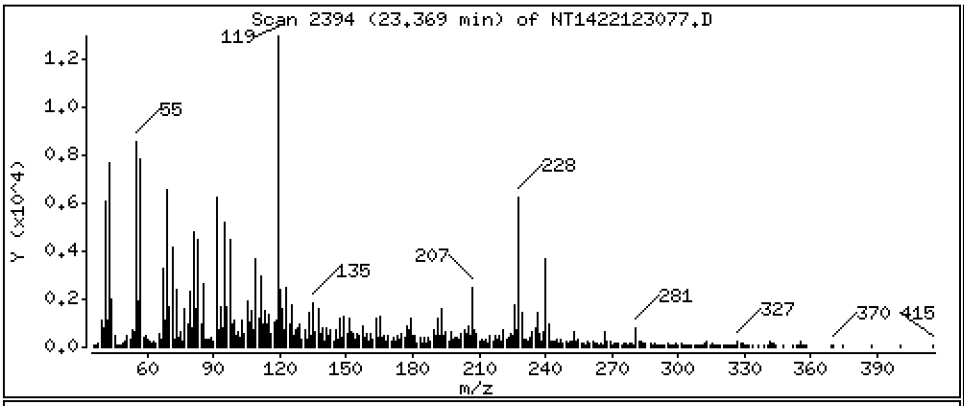
Operator: VTS

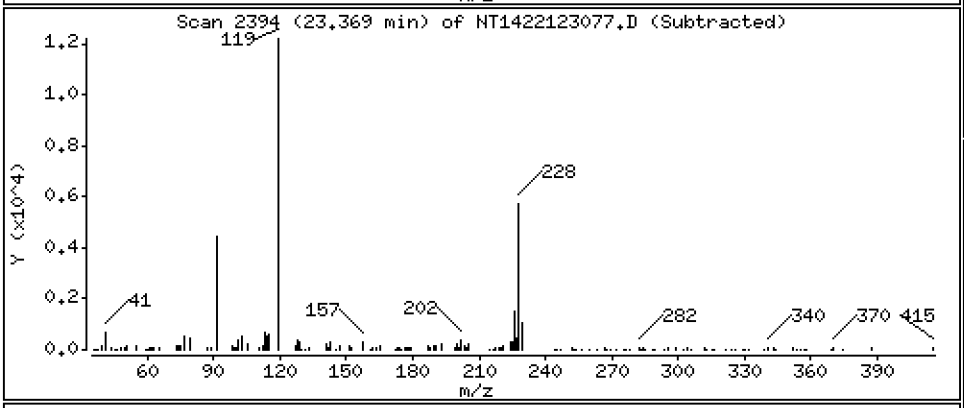
Column phase: ZB-5msi

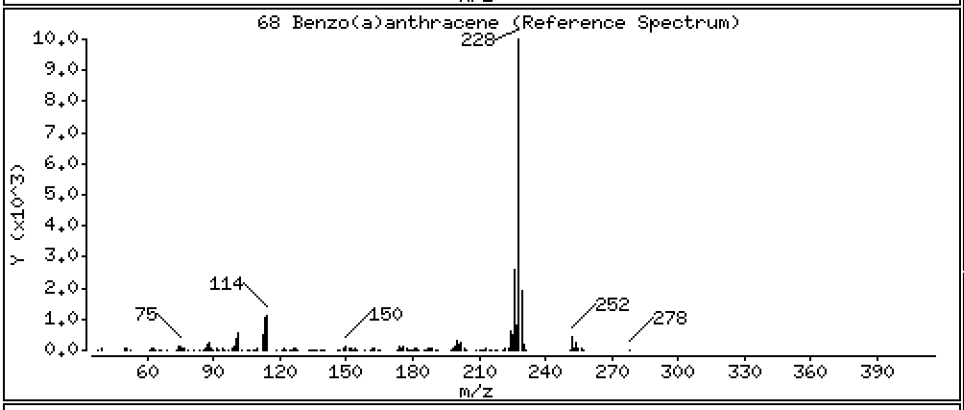
Column diameter: 0.25

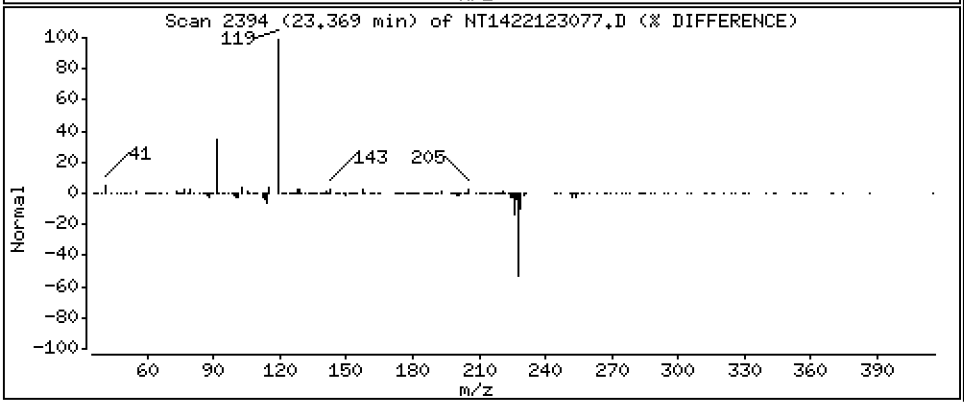
68 Benzo(a)anthracene

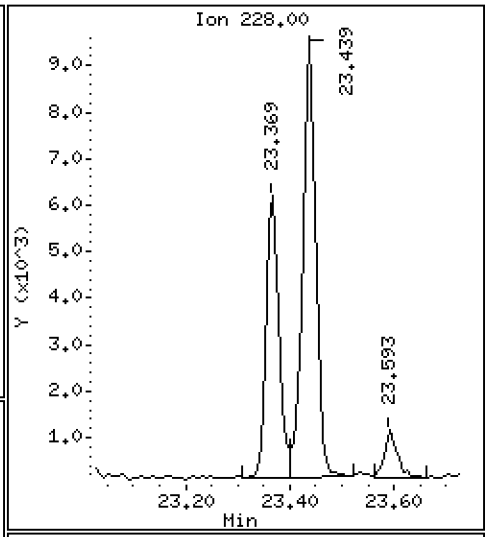
Concentration: 0.1539 ug/mL

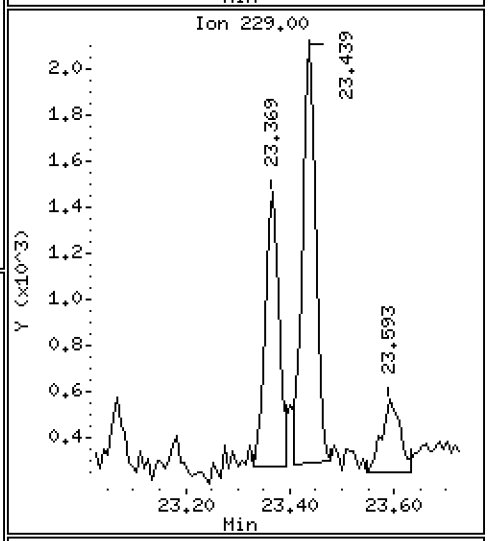


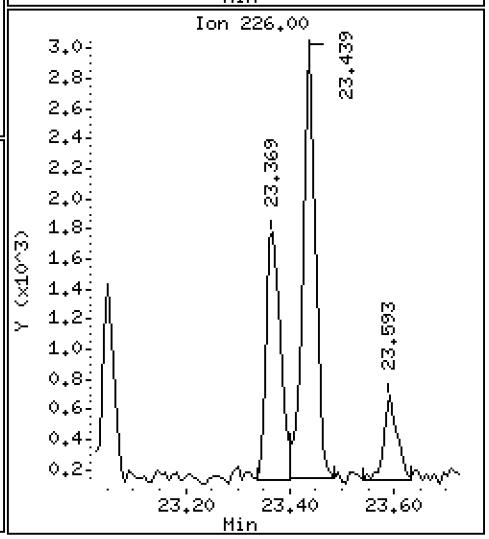












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Date : 01-JAN-2023 06:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0139-09

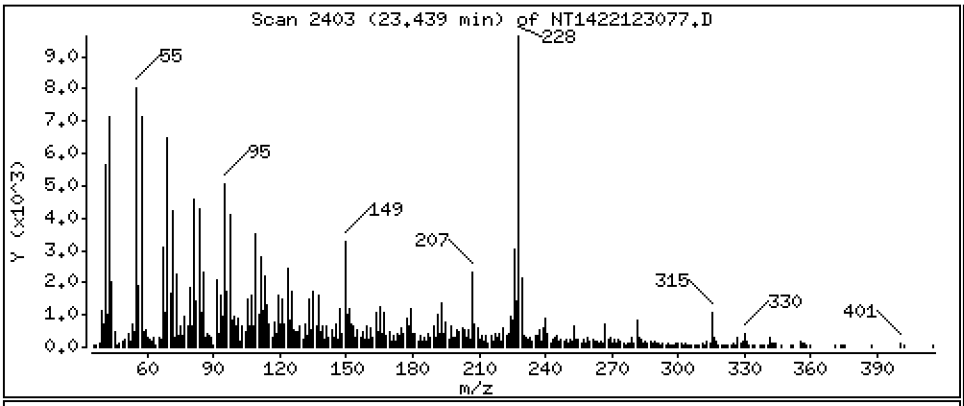
Operator: VTS

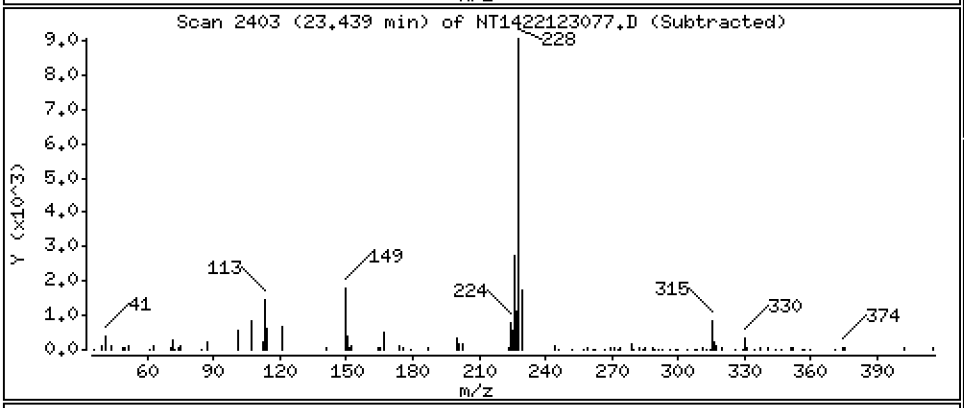
Column phase: ZB-5msi

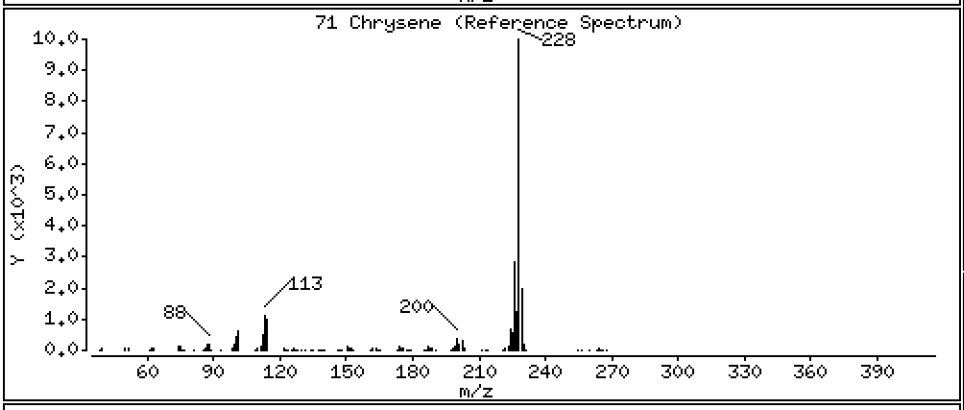
Column diameter: 0.25

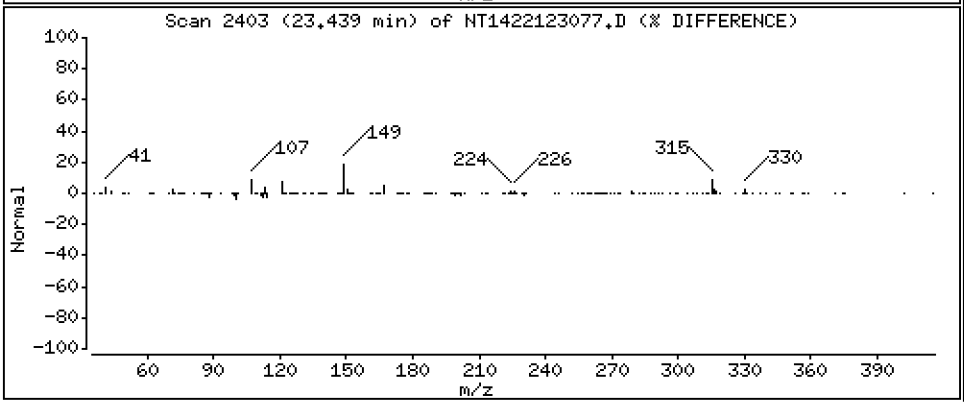
71 Chrysene

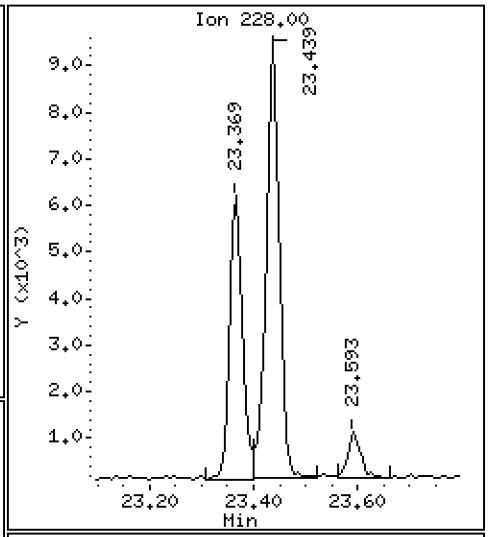
Concentration: 0.2651 ug/mL

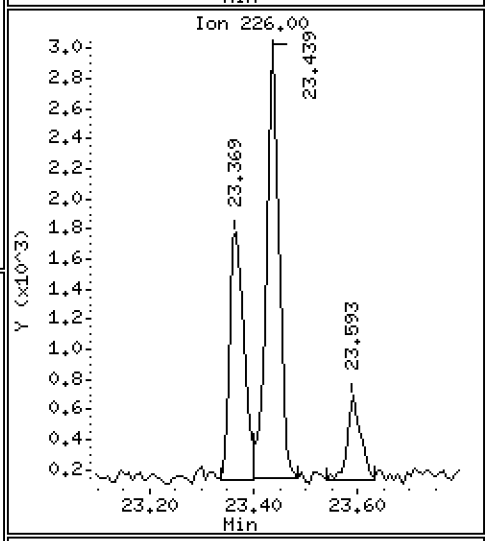


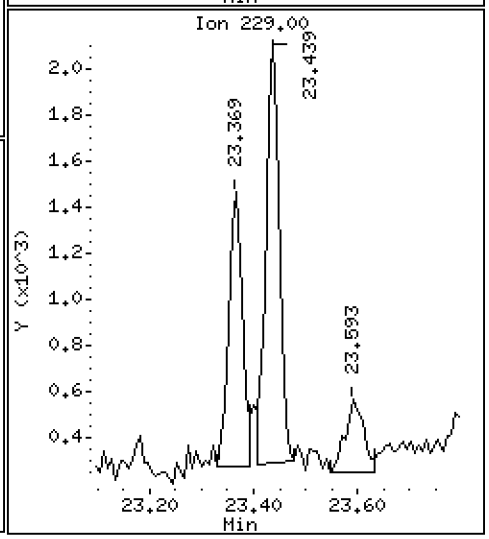












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123077.D

Date : 01-JAN-2023 06:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0139-09

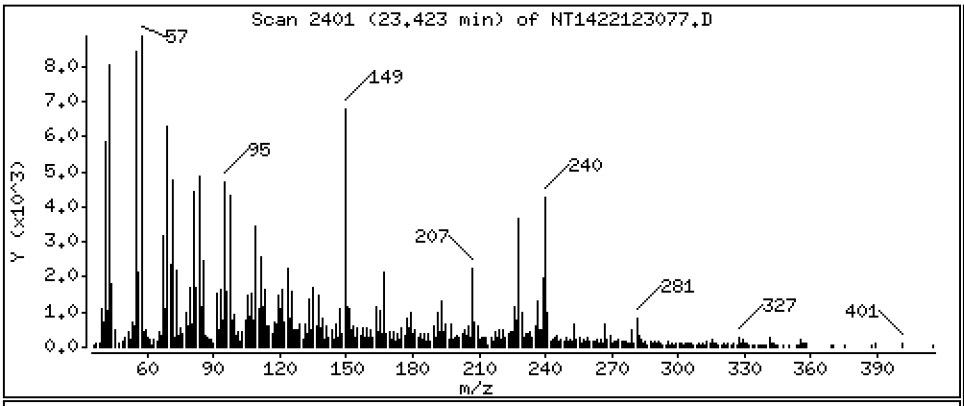
Operator: VTS

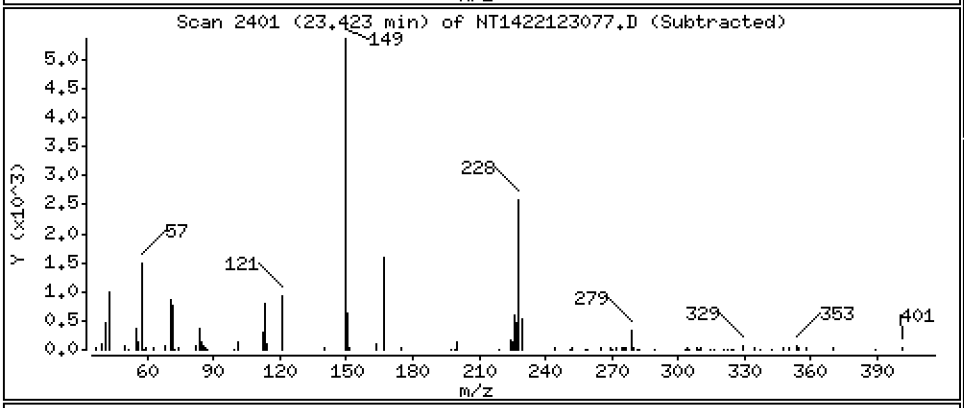
Column phase: ZB-5msi

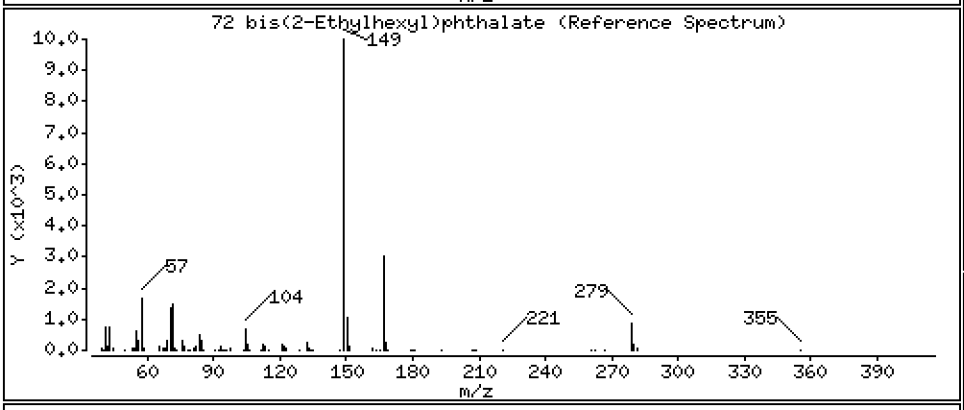
Column diameter: 0.25

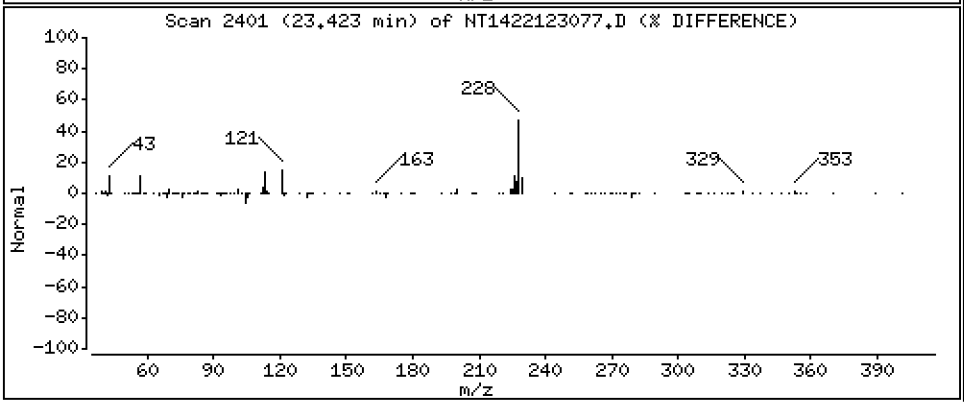
72 bis(2-Ethylhexyl)phthalate

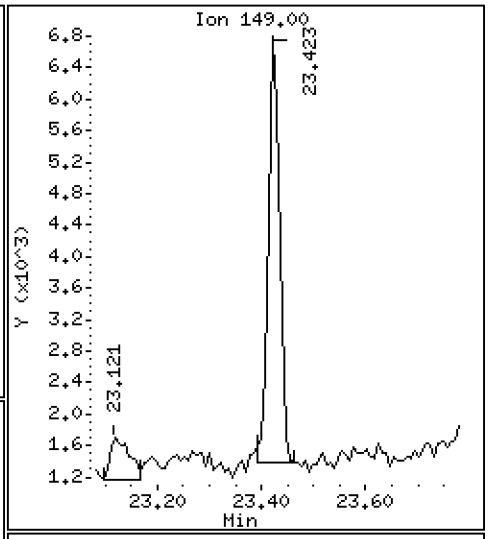
Concentration: 0.1875 ug/mL

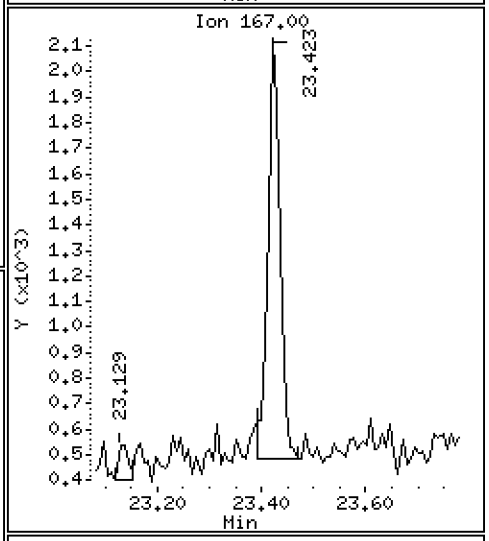


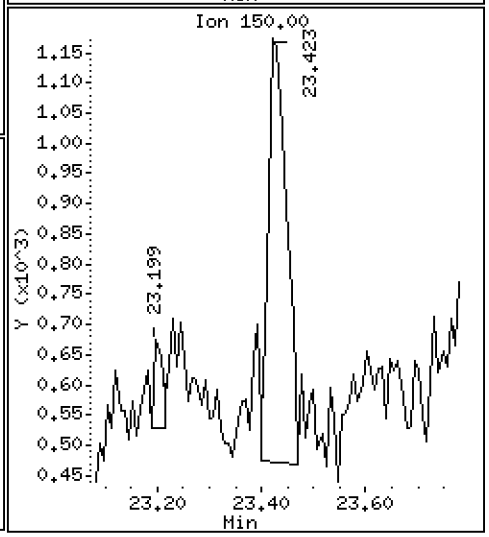












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Date : 01-JAN-2023 06:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0139-09

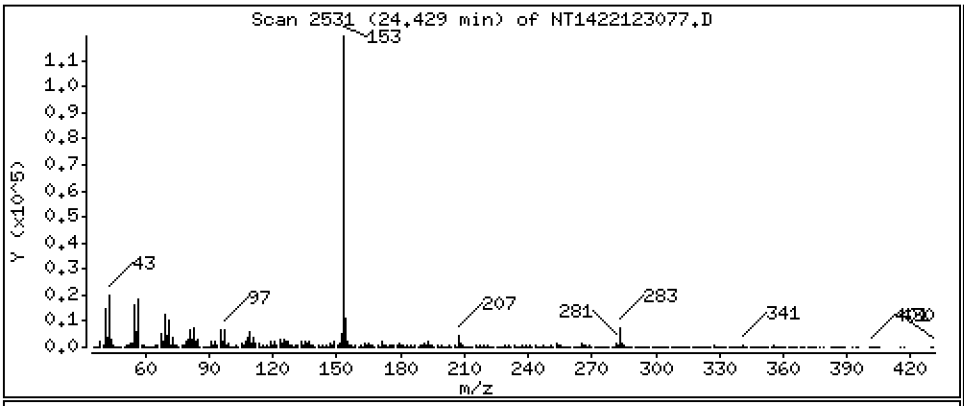
Operator: VTS

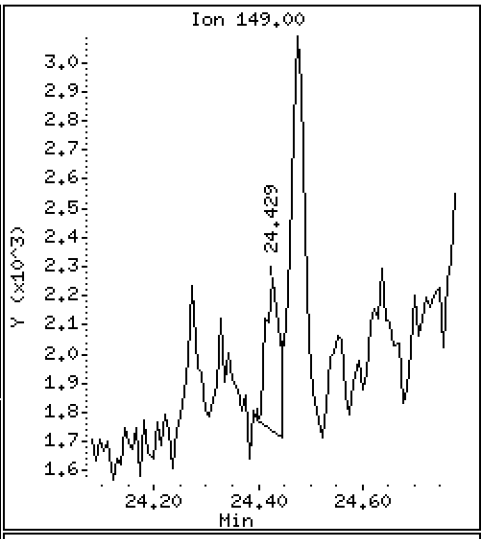
Column phase: ZB-5msi

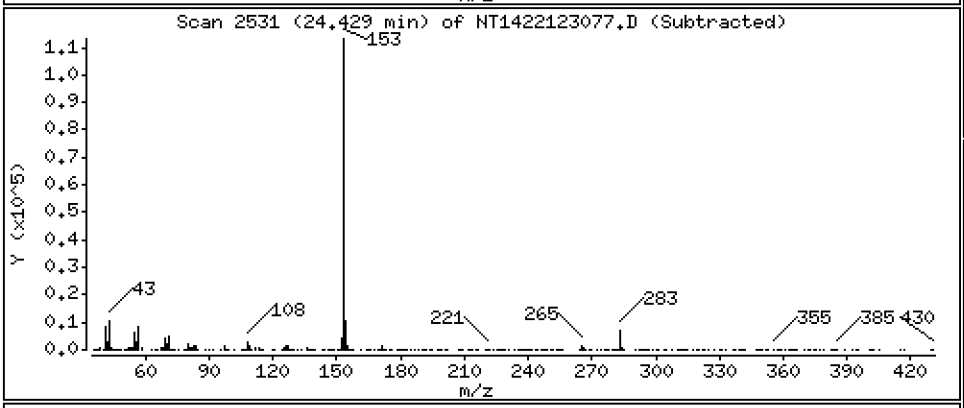
Column diameter: 0.25

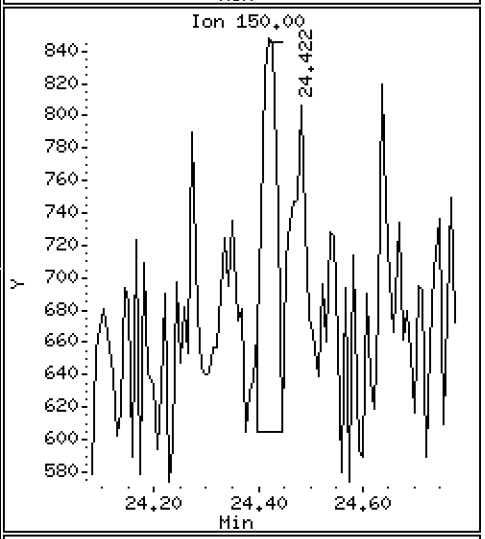
73 Di-n-octylphthalate

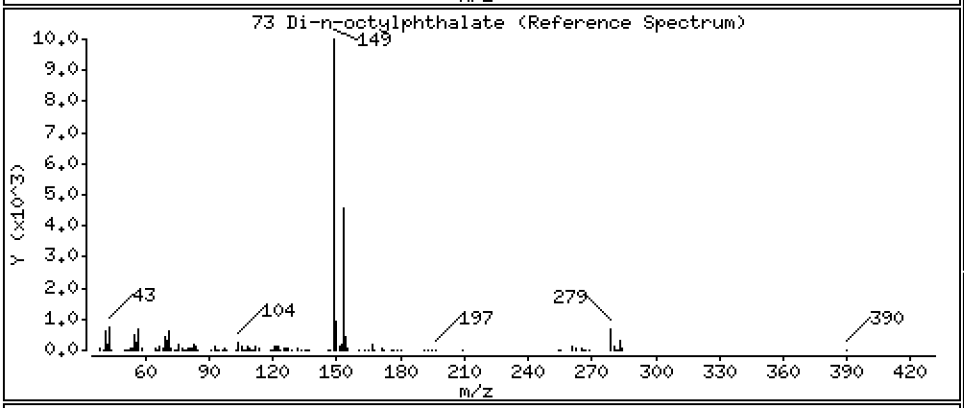
Concentration: 0.009940 ug/mL

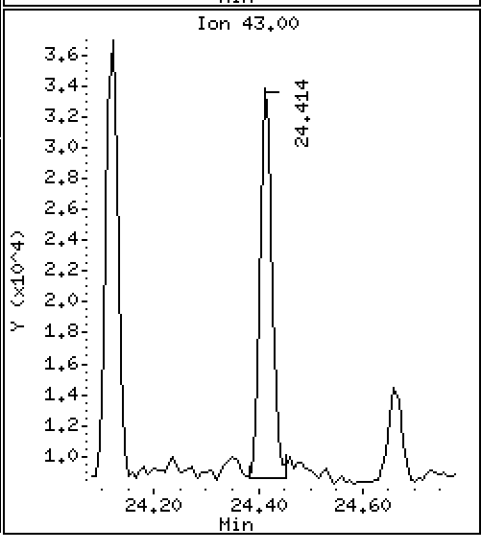


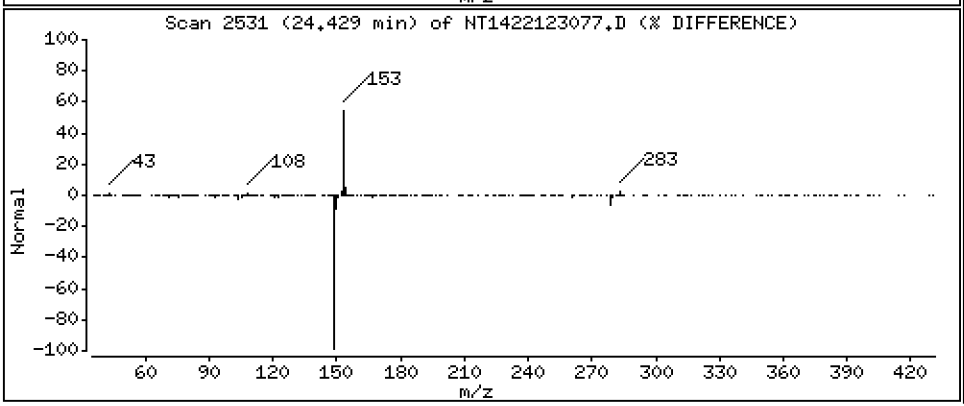












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Date : 01-JAN-2023 06:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0139-09

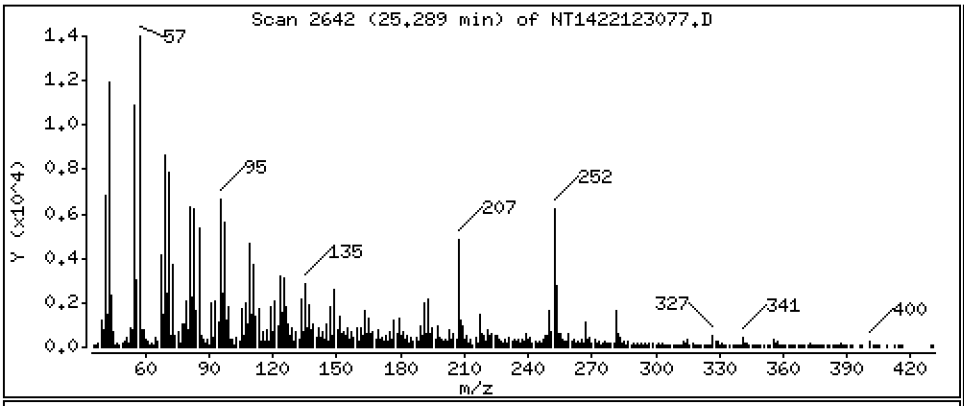
Operator: VTS

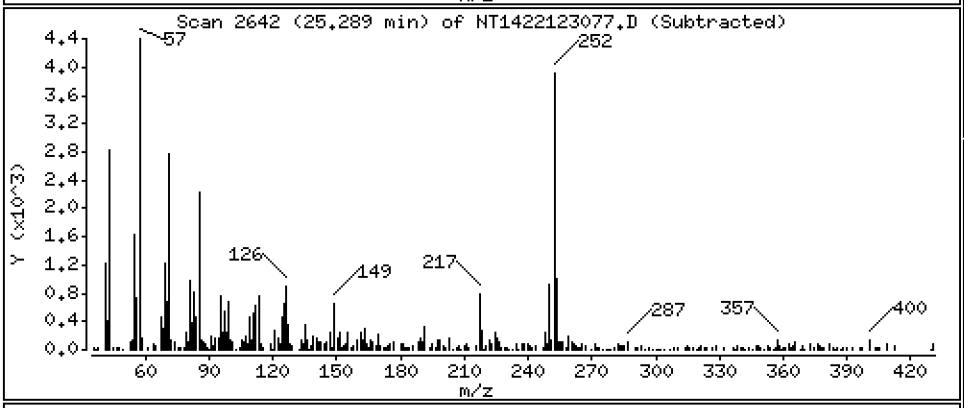
Column phase: ZB-5msi

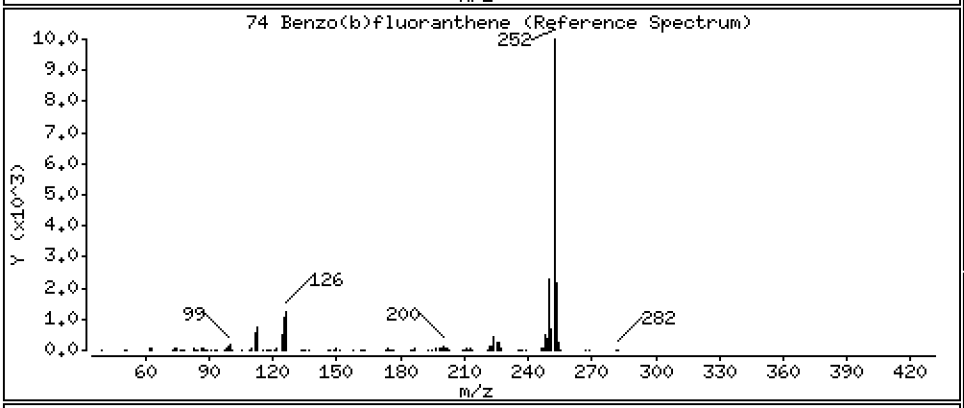
Column diameter: 0.25

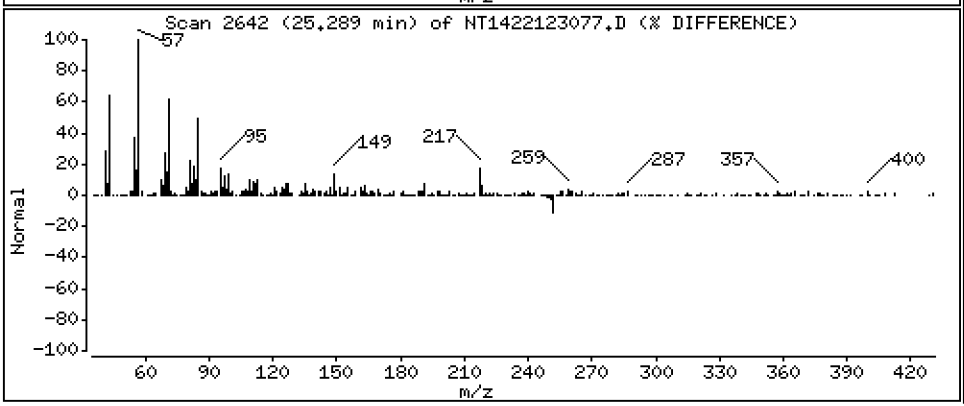
74 Benzo(b)fluoranthene

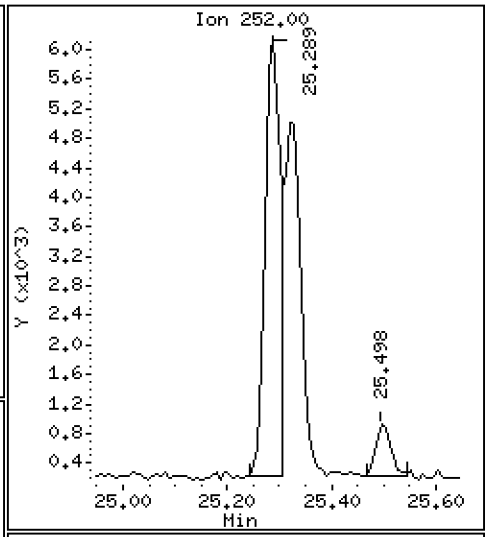
Concentration: 0.2051 ug/mL

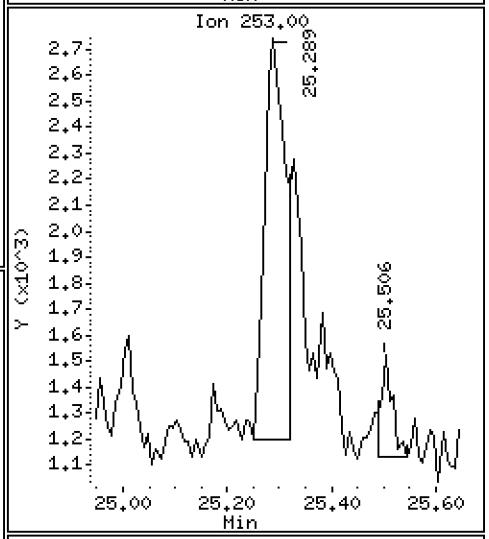


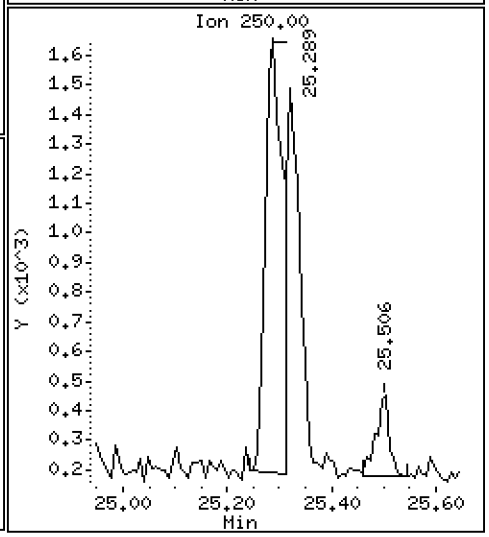












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Date : 01-JAN-2023 06:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0139-09

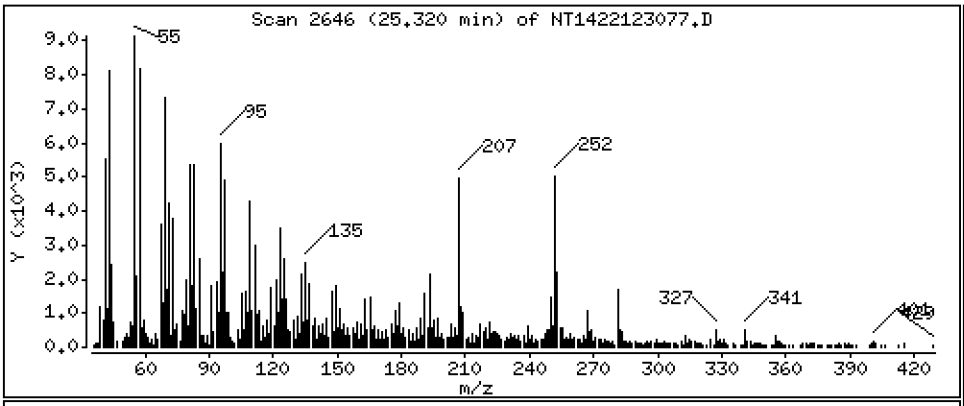
Operator: VTS

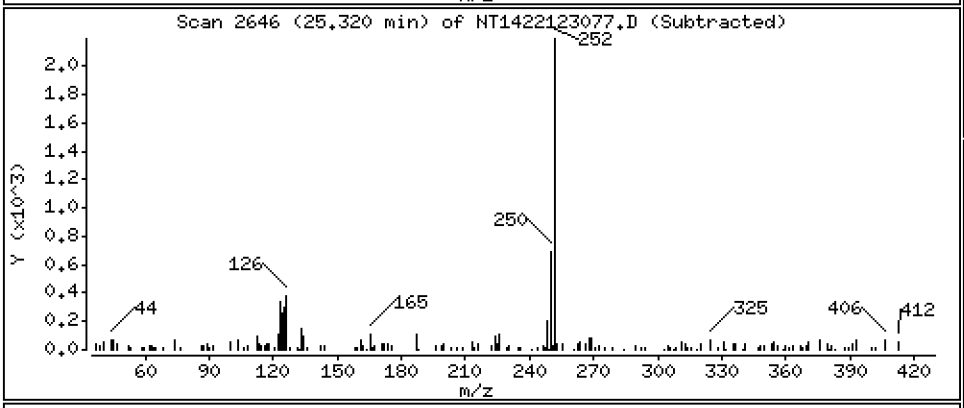
Column phase: ZB-5msi

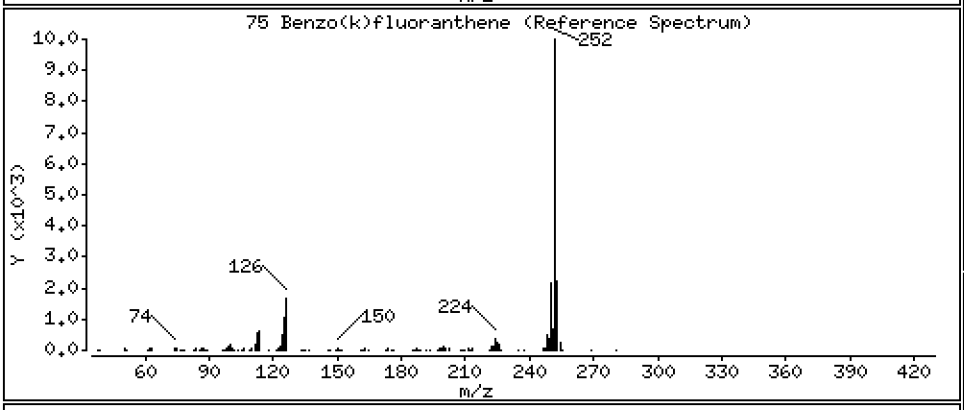
Column diameter: 0.25

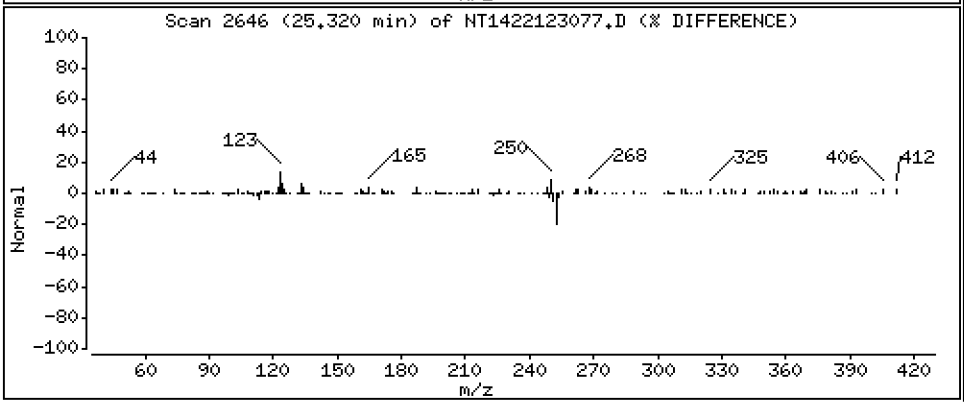
75 Benzo(k)fluoranthene

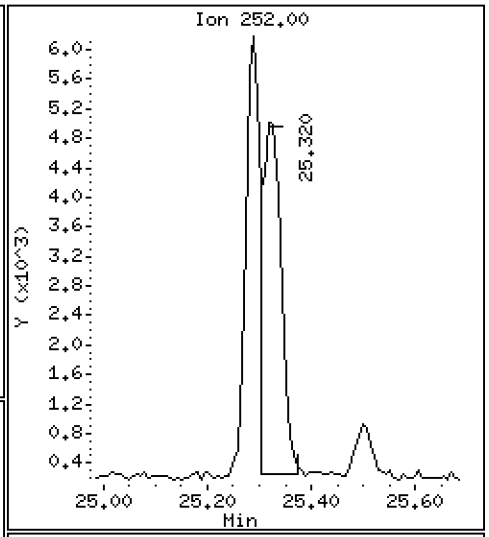
Concentration: 0.2026 ug/mL

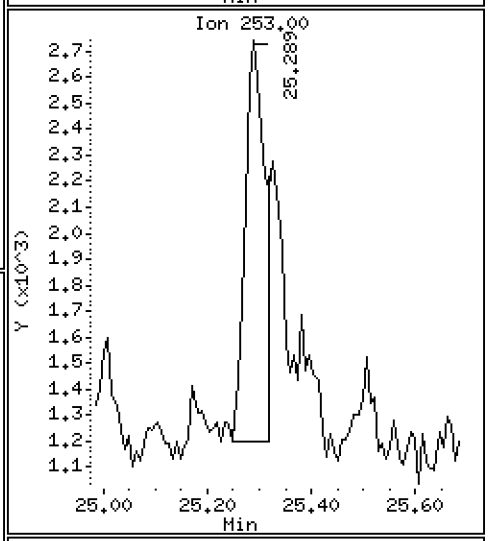


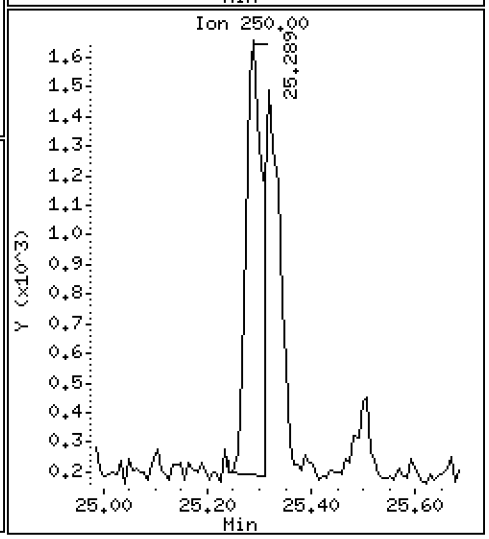












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Date : 01-JAN-2023 06:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0139-09

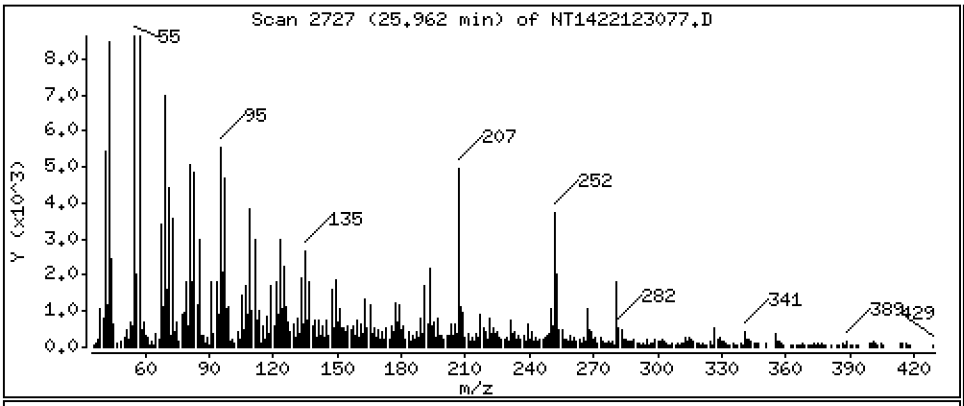
Operator: VTS

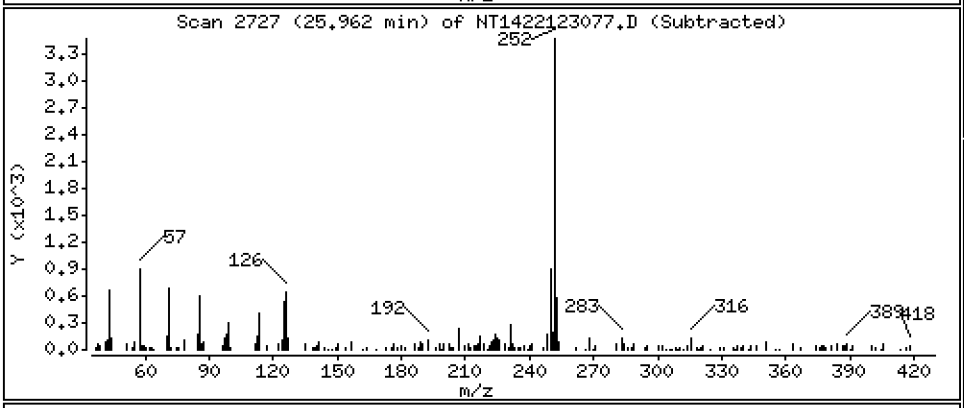
Column phase: ZB-5msi

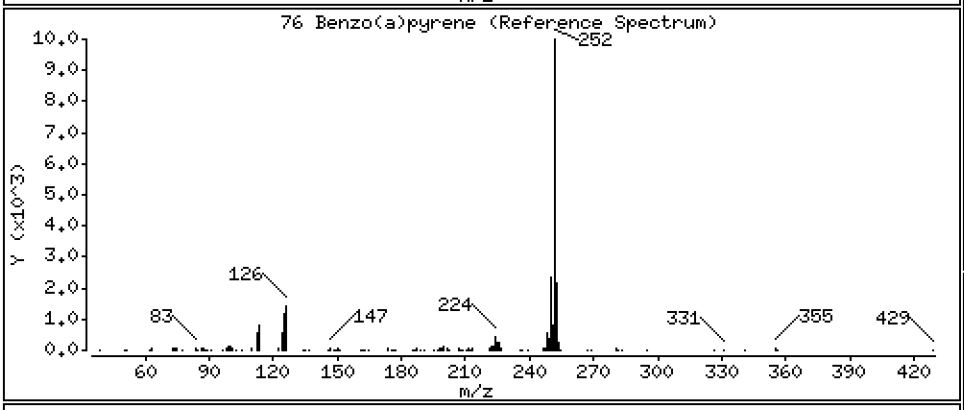
Column diameter: 0.25

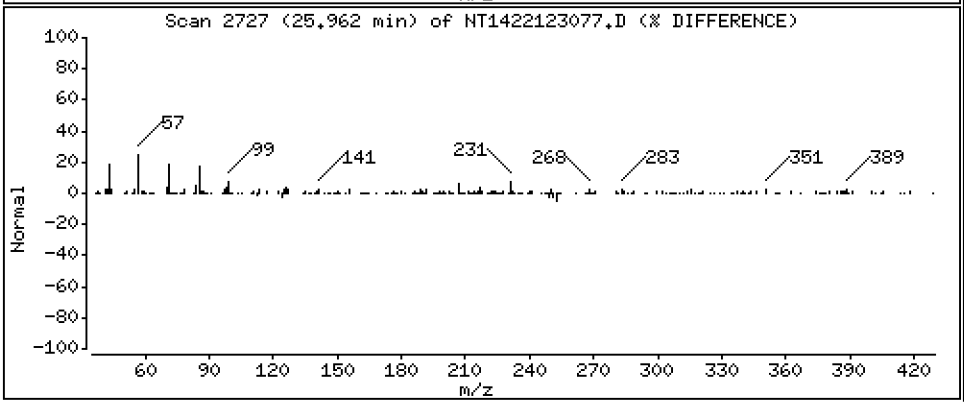
76 Benzo(a)pyrene

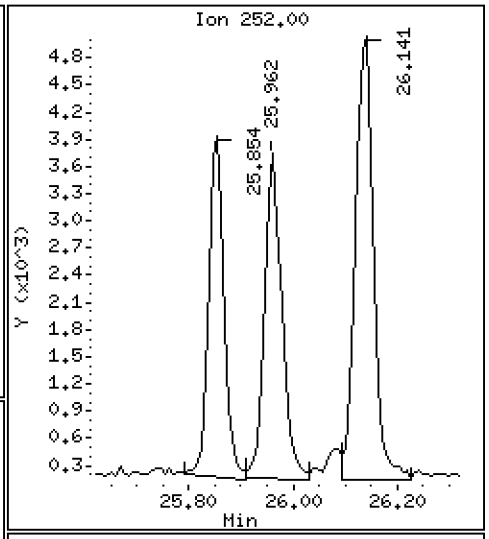
Concentration: 0.1698 ug/mL

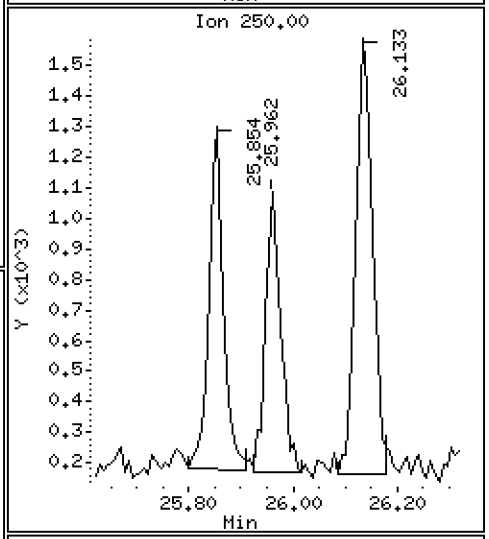


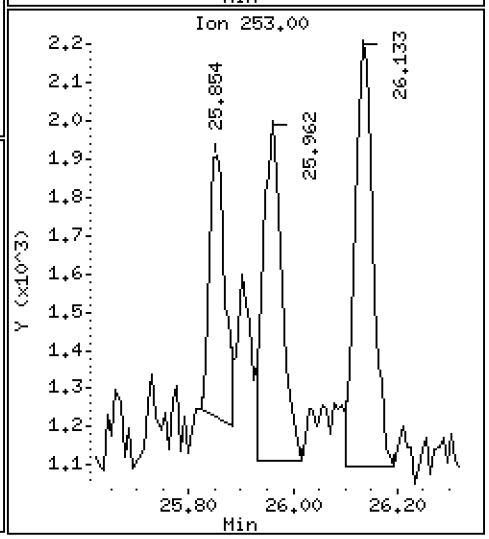












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Date : 01-JAN-2023 06:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0139-09

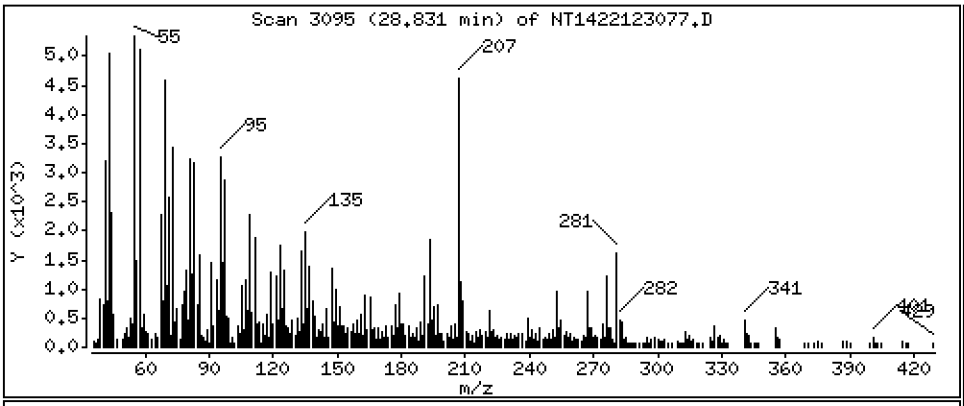
Operator: VTS

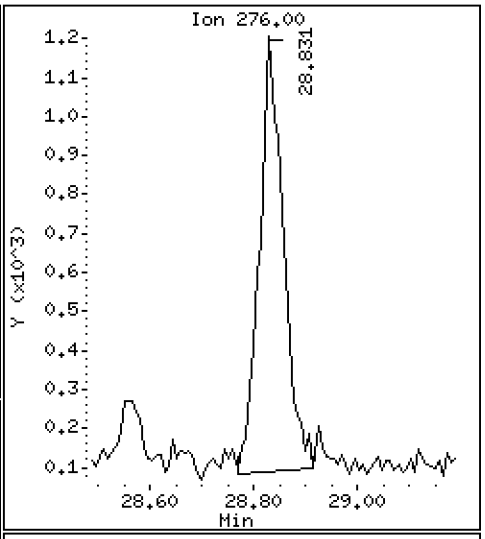
Column phase: ZB-5msi

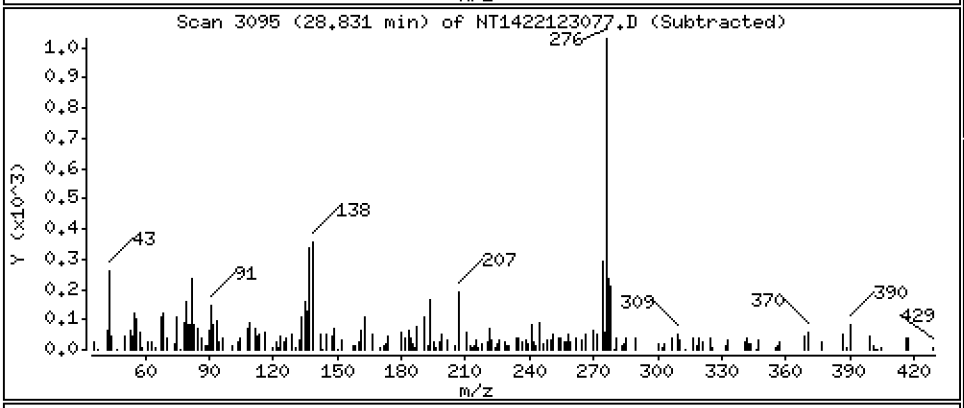
Column diameter: 0.25

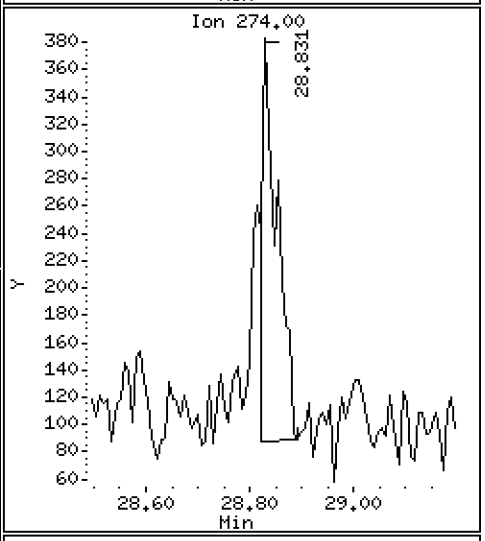
78 Indeno(1,2,3-cd)pyrene

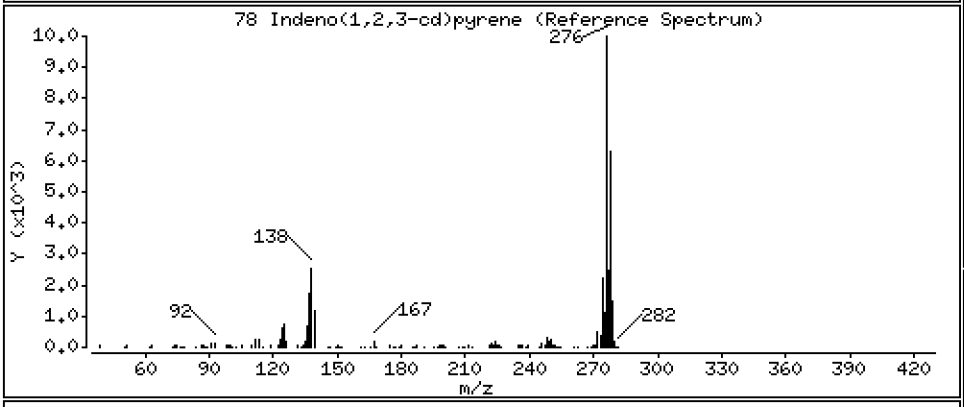
Concentration: 0.06483 ug/mL

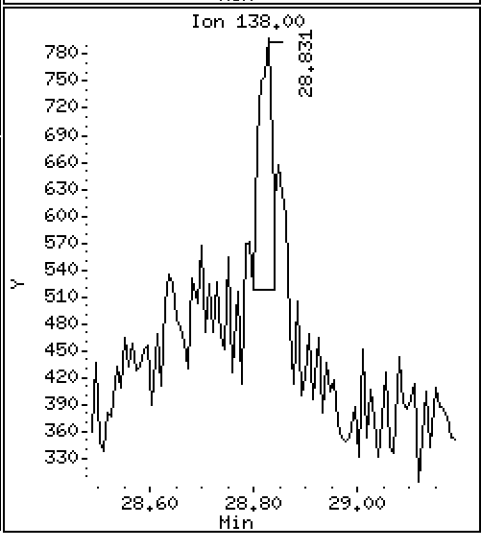


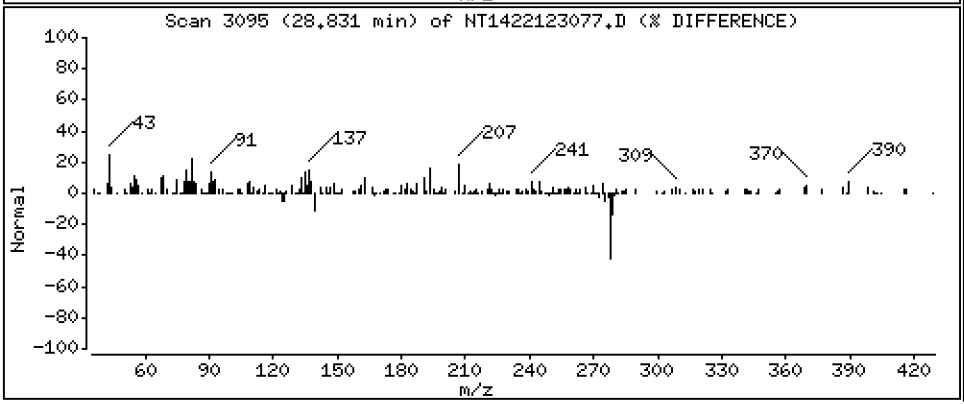












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Date : 01-JAN-2023 06:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0139-09

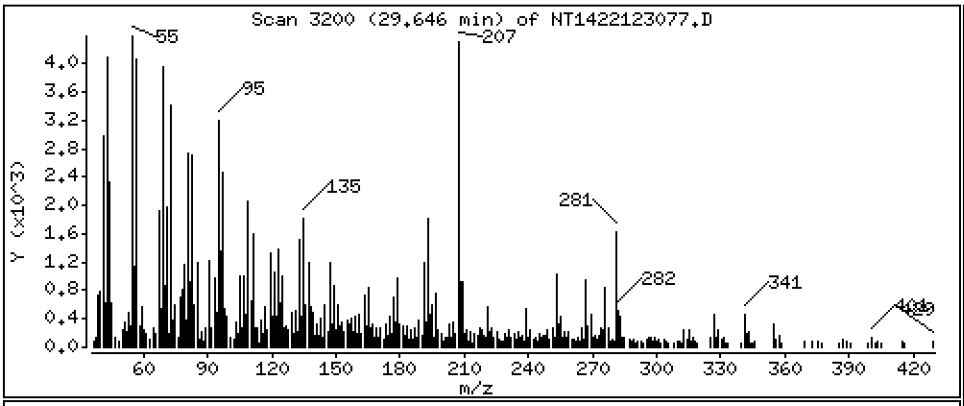
Operator: VTS

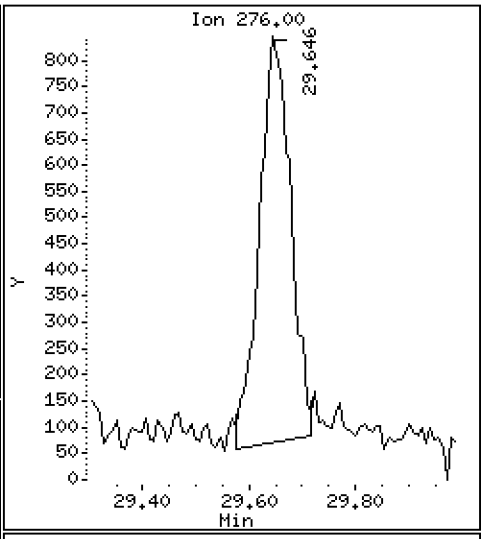
Column phase: ZB-5msi

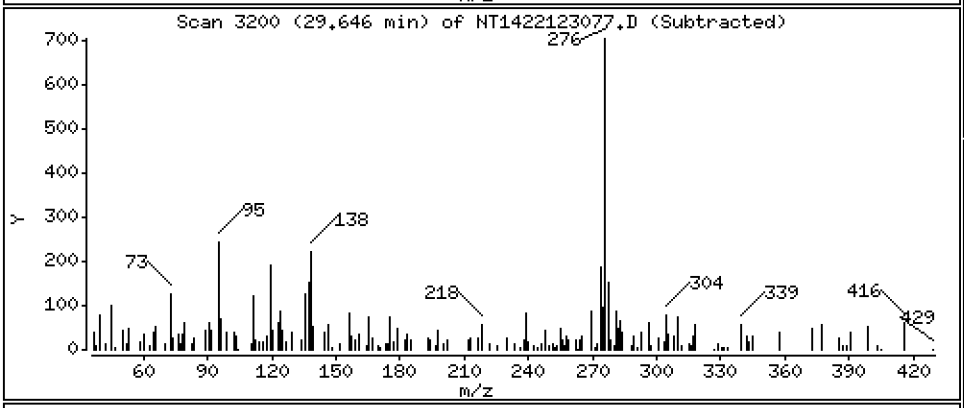
Column diameter: 0.25

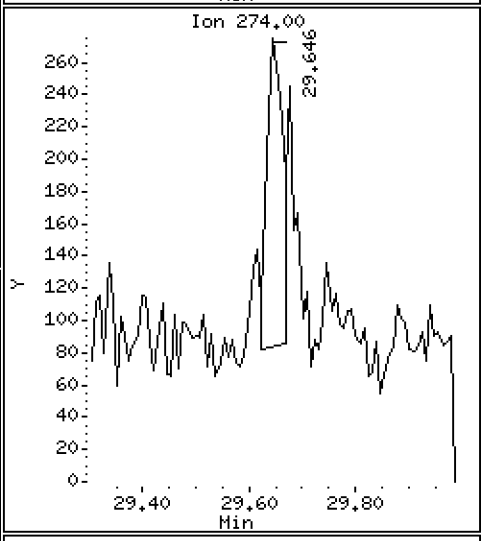
80 Benzo(g,h,i)perylene

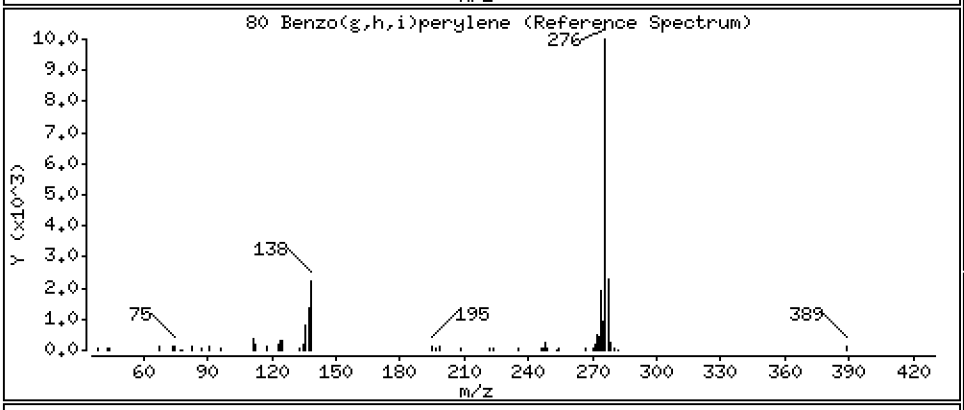
Concentration: 0.06908 ug/mL

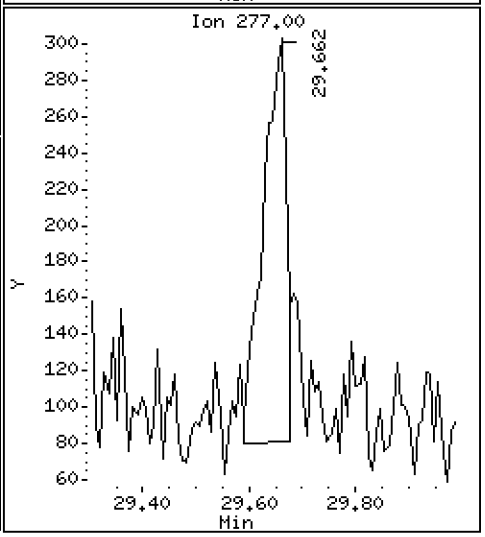


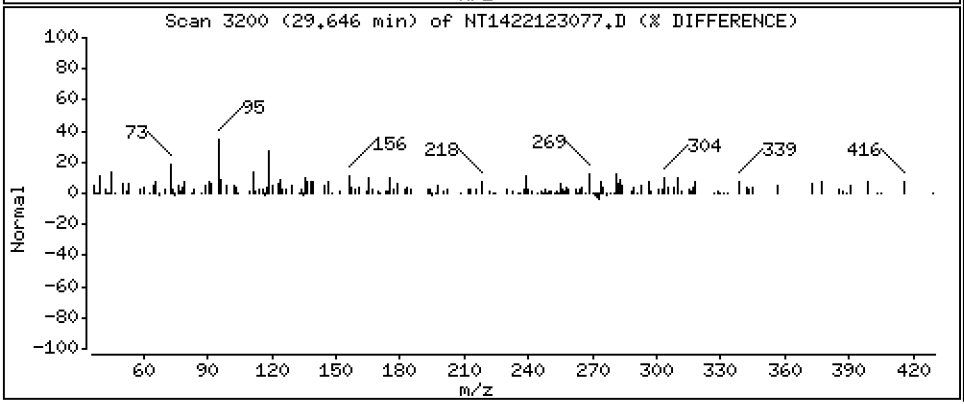












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Date : 01-JAN-2023 06:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0139-09

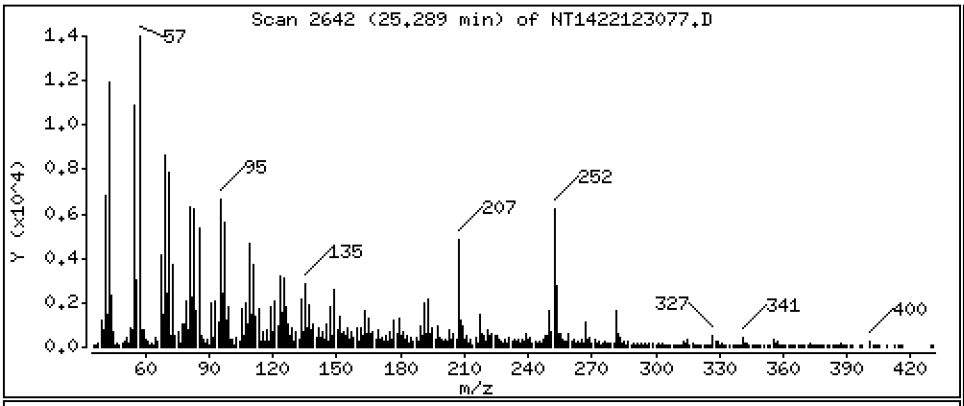
Operator: VTS

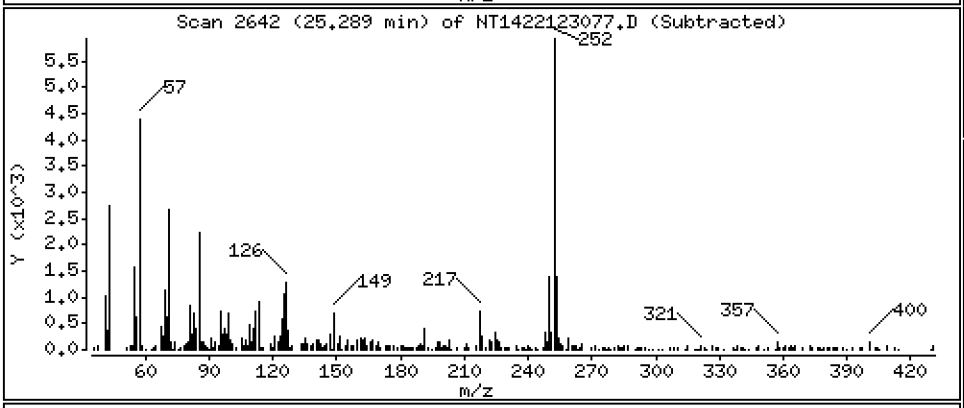
Column phase: ZB-5msi

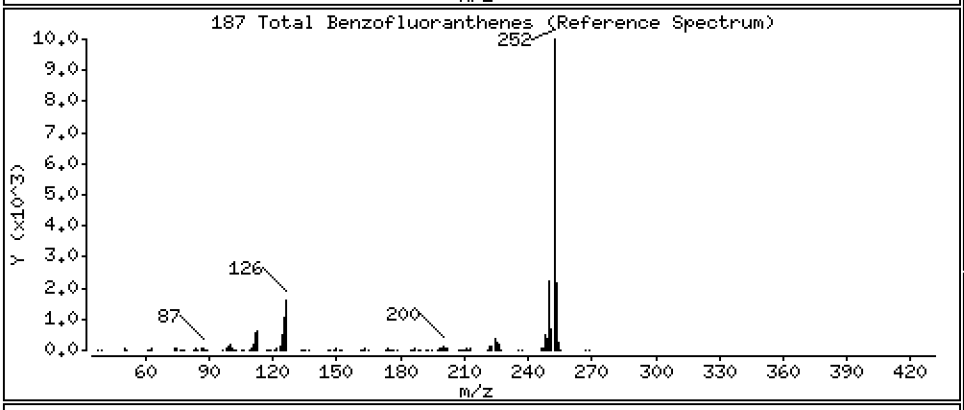
Column diameter: 0.25

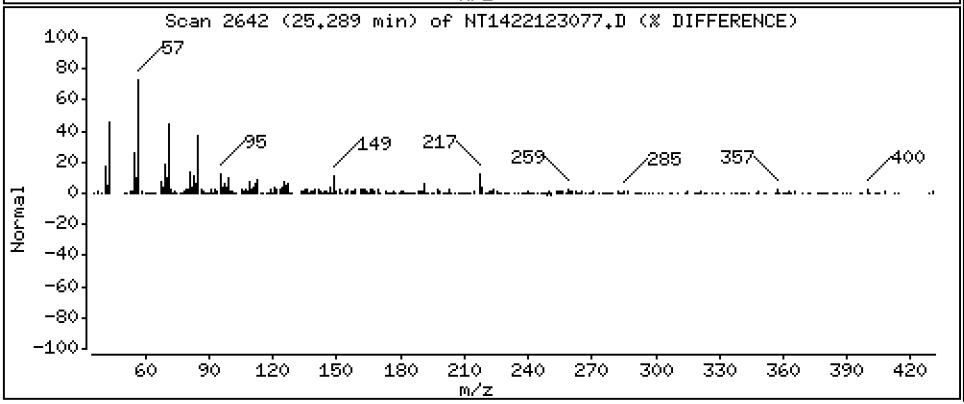
187 Total Benzofluoranthenes

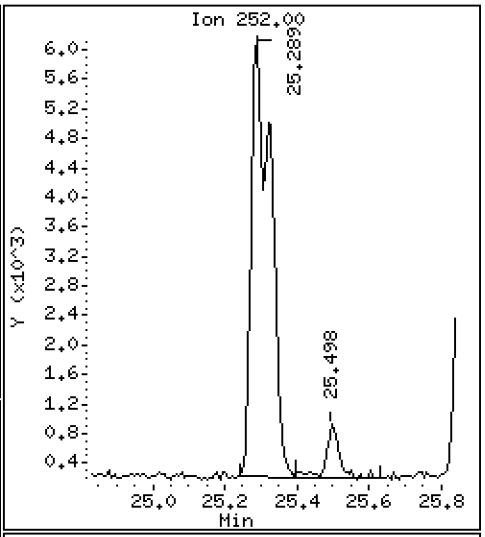
Concentration: 0.3984 ug/mL

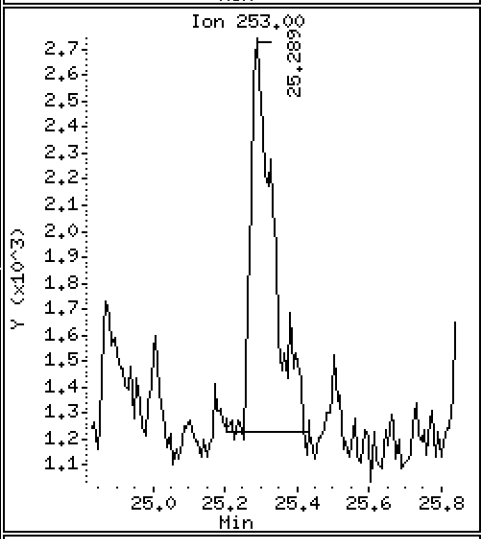


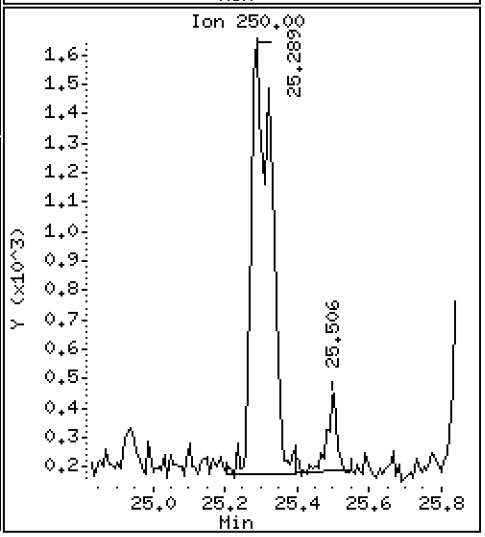












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230C.b\NT1422123077.D
Lab Smp Id: 22L0139-09
Inj Date : 01-JAN-2023 06:05 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : 22L0139-09
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 48
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.927	6.919	(0.756)	135754	4.74681	4.747
$	2 Phenol-d5	99	8.511	8.519	(0.929)	187191	5.29638	5.296
	3 Phenol	94	8.534	8.542	(0.932)	2226	0.05543	0.05543
$	5 2-Chlorophenol-d4	132	8.797	8.797	(0.960)	163582	5.51102	5.511
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	9.160	9.160	(1.000)	89268	4.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	9.525	9.525	(1.040)	73917	3.64348	3.643
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	Compound Not Detected.					
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	10.255	10.262	(0.879)	116265	4.29823	4.298
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	11.666	11.673	(1.000)	320325	4.00000	
	28 Naphthalene	128	11.704	11.712	(1.003)	7436	0.09433	0.09433
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	142	13.112	13.120	(1.124)	1036	0.01792	0.01792
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	13.893	13.901	(0.908)	234716	4.27045	4.270
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	Compound Not Detected.					
	40	Acenaphthylene	152	14.985	14.993	(0.979)	1666	0.02337	0.02337
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	15.302	15.310	(1.000)	163472	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	Compound Not Detected.					
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	Compound Not Detected.					
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	16.253	16.268	(1.062)	18402	0.29367	0.2937
	49	Fluorene	166	Compound Not Detected.					
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55	2,4,6-Tribromophenol	330	16.947	16.955	(1.108)	39160	4.98237	4.982
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	18.353	18.361	(1.000)	273676	4.00000	
	60	Phenanthrene	178	18.400	18.408	(1.003)	6588	0.09233	0.09233
	61	Anthracene	178	18.493	18.500	(1.008)	3012	0.04422	0.04422
	62	Carbazole	167	18.825	18.825	(1.026)	836	0.01269	0.01269
	63	Di-n-butylphthalate	149	19.607	19.614	(1.068)	1516	0.02042	0.02042
	64	Fluoranthene	202	20.783	20.791	(0.888)	15991	0.23190	0.2319
	65	Pyrene	202	21.208	21.216	(0.906)	16679	0.23005	0.2301
$	66	Terphenyl-d14	244	21.487	21.495	(0.918)	238932	4.64782	4.648
	67	Butylbenzylphthalate	149	Compound Not Detected.					
	68	Benzo(a)anthracene	228	23.368	23.376	(0.999)	9987	0.15394	0.1539
*	69	Chrysene-d12	240	23.399	23.399	(1.000)	214156	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	23.438	23.446	(1.002)	16243	0.26506	0.2651
	72	bis(2-Ethylhexyl)phthalate	149	23.423	23.430	(0.959)	7872	0.18751	0.1875
*	134	Di-n-octylphthalate-d4	153	24.413	24.421	(1.000)	378021	4.00000	
	73	Di-n-octylphthalate	149	24.429	24.429	(1.001)	902	0.00994	0.009940
	74	Benzo(b)fluoranthene	252	25.288	25.296	(0.970)	11921	0.20508	0.2051
	75	Benzo(k)fluoranthene	252	25.319	25.335	(0.971)	11985	0.20258	0.2026(M)
	76	Benzo(a)pyrene	252	25.962	25.970	(0.996)	8205	0.16980	0.1698
*	77	Perylene-d12	264	26.078	26.086	(1.000)	184962	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.830	28.838	(1.106)	3561	0.06483	0.06483
	79	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80	Benzo(g,h,i)perylene	276	29.646	29.653	(1.137)	3179	0.06908	0.06908
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	Compound Not Detected.					
	105	1-methylnaphthalene	142	Compound Not Detected.					
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.288	25.335	(0.970)	22387	0.39836	0.3984
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123077.D
Lab Smp Id: 22L0139-09
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Misc Info:

Calibration Date: 31-DEC-2022
Calibration Time: 23:30
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138755	69378	277510	89268	-35.67
27 Naphthalene-d8	501723	250862	1003446	320325	-36.16
42 Acenaphthene-d10	275234	137617	550468	163472	-40.61
59 Phenanthrene-d10	440085	220043	880170	273676	-37.81
69 Chrysene-d12	384795	192398	769590	214156	-44.35
134 Di-n-octylphthala	674530	337265	1349060	378021	-43.96
77 Perylene-d12	336665	168333	673330	184962	-45.06

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	-0.07
42 Acenaphthene-d10	15.31	14.81	15.81	15.30	-0.05
59 Phenanthrene-d10	18.36	17.86	18.86	18.35	-0.04
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.41	-0.03
77 Perylene-d12	26.09	25.59	26.59	26.08	-0.03

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

REVIEW SUMMARY FOR FILE - NT1422123077.D

Lab ID: 22L0139-09
nt14.i, 20221230C.b\ABN.m,   01-JAN-2023 06:05

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

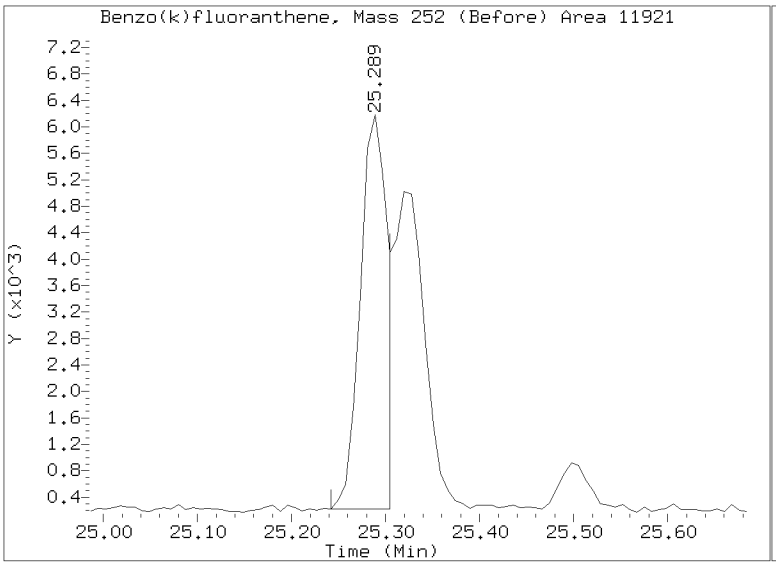
RRT check based on Ccal File: NT1422123066.D

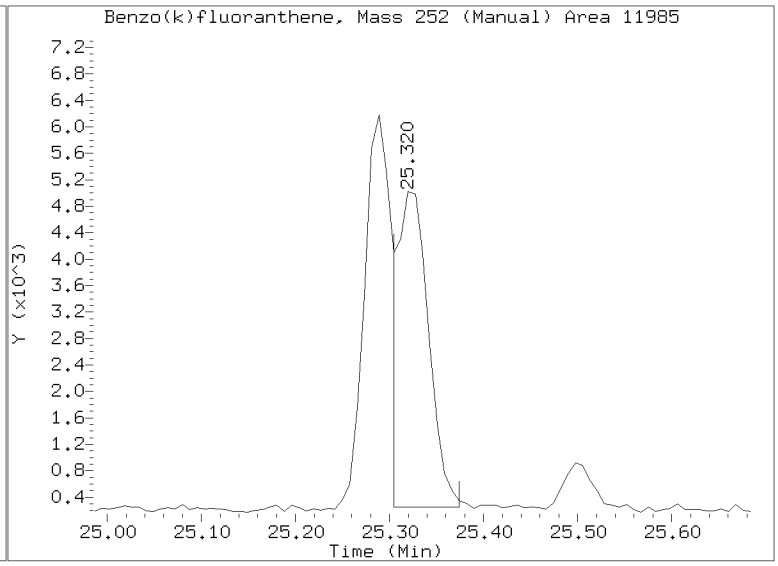
On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230C.b/NT1422123077.D
Injection Date: 01-JAN-2023 06:05
Lab ID:22L0139-09 Client ID:
Report Date: 01/04/2023 14:25





Analytical Resources, LLC
Analytical Chemists and Consultants

LDW22-SS771

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

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

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-10 A	SDG:	22L0136
Sampled:	12/06/22 13:35	Prepared:	12/09/22 14:39	File ID:	NT1422123080.D
% Solids:	42.66	Preparation:	EPA 3546 (Microwave)	Analyzed:	01/01/23 07:53
Batch:	BKL0193	Sequence:	SKL0355	Initial/Final:	23.48 g Wet / 1 mL
Instrument:	NT14	Column:	ZB-5MS	Calibration:	FL00066
Cleanups:	GPC				

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
106-44-5	4-Methylphenol	1	7.5	J	7.4	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
Phenol-d5	748.76	556	74.3	29 - 120	
2-Chlorophenol-d4	748.76	588	78.5	31 - 120	
1,2-Dichlorobenzene-d4	499.17	357	71.6	32 - 120	
Nitrobenzene-d5	499.17	427	85.6	30 - 120	

Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123080.D

Date : 01-JAN-2023 07:53

Client ID:

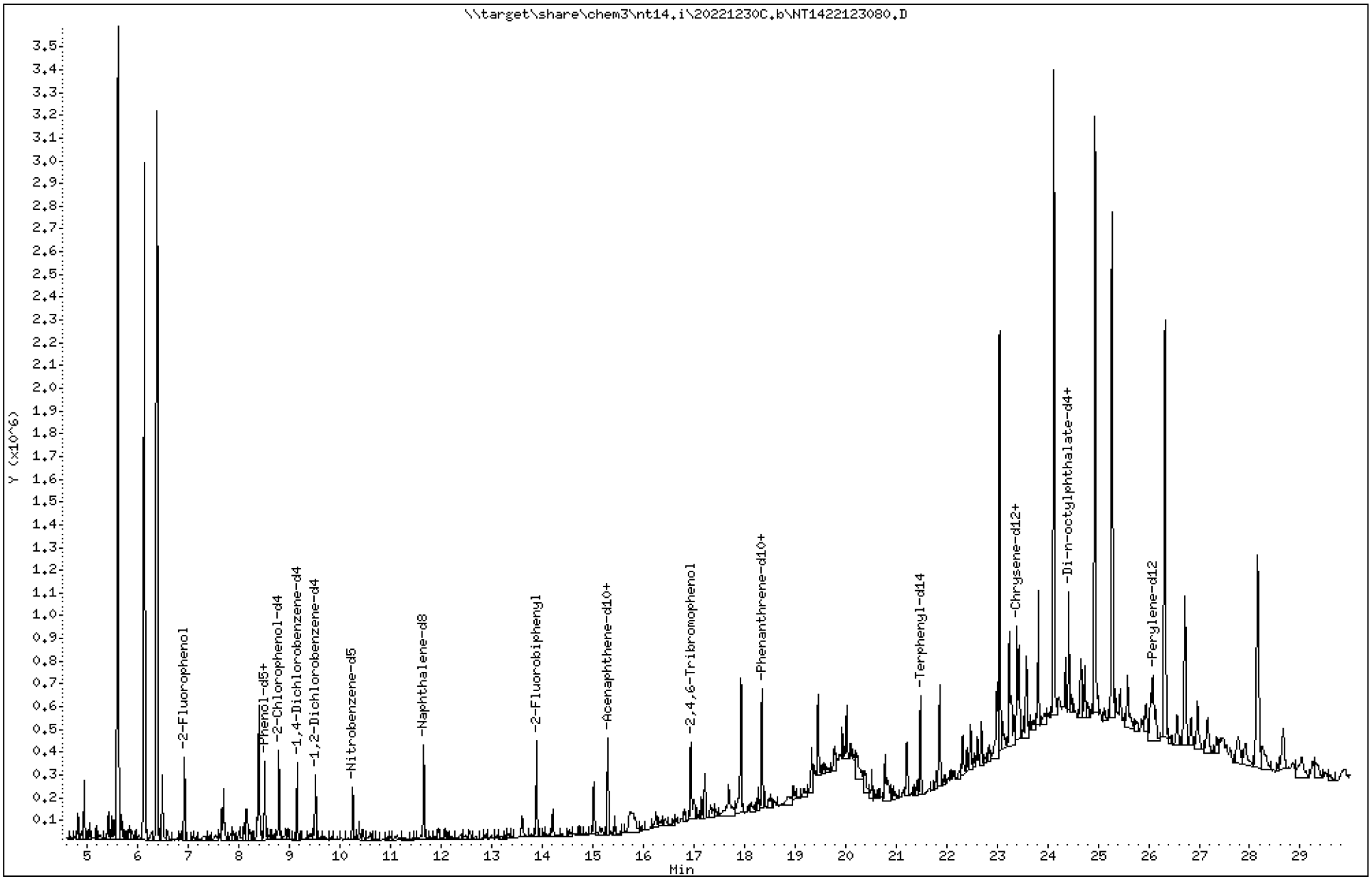
Sample Info: 22L0136-10

Instrument: nt14.i

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 01-JAN-2023 07:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-10

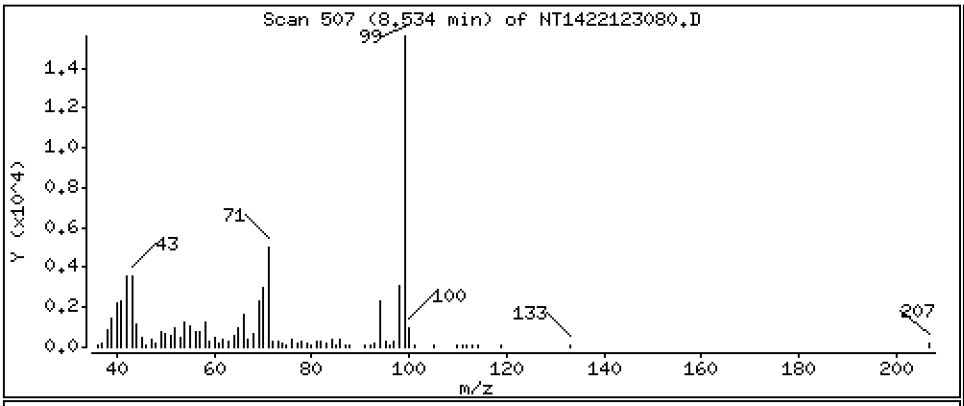
Operator: VTS

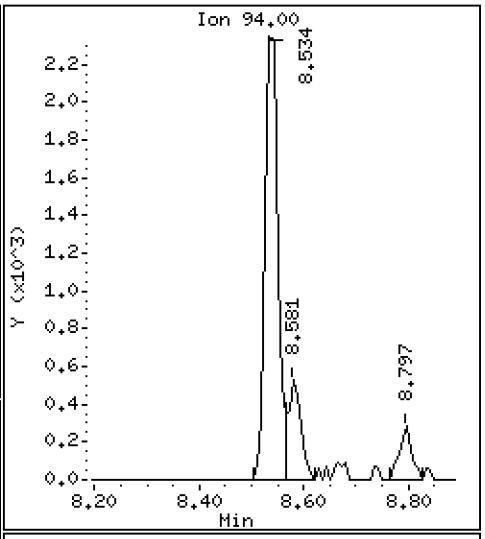
Column phase: ZB-5msi

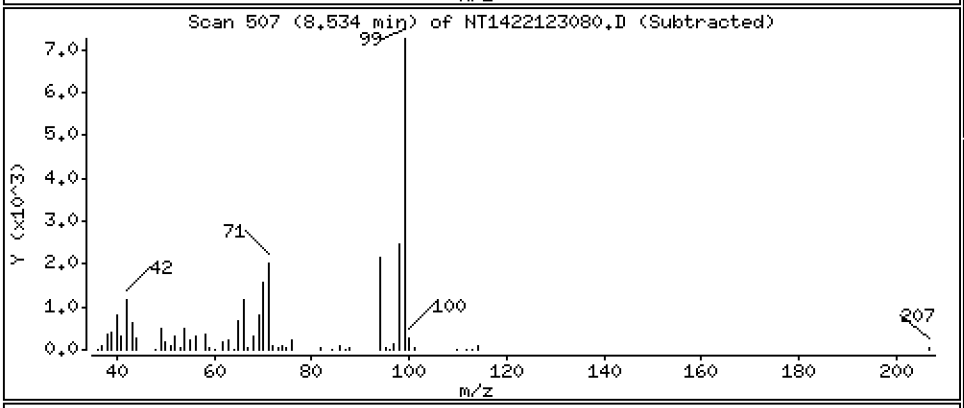
Column diameter: 0.25

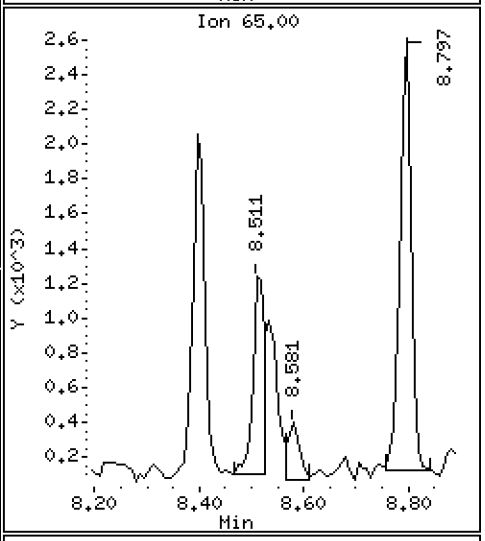
3 Phenol

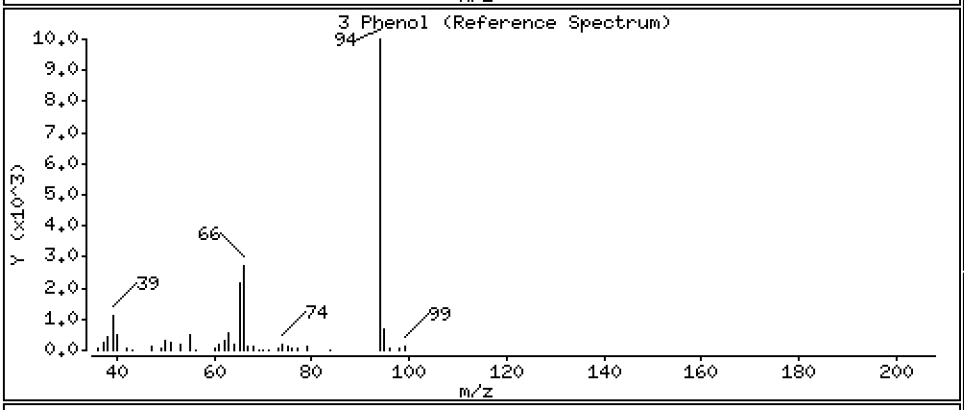
Concentration: 0.1015 ug/mL

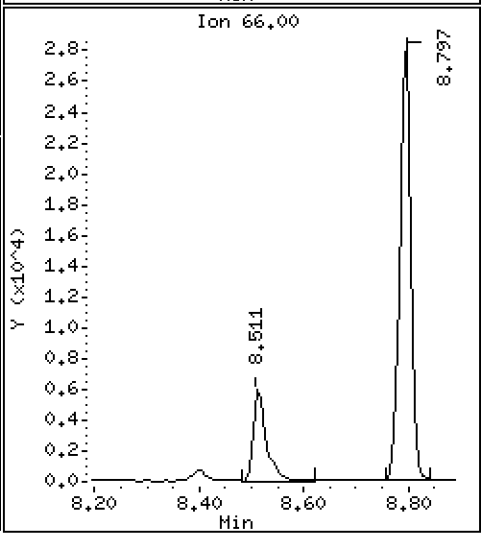


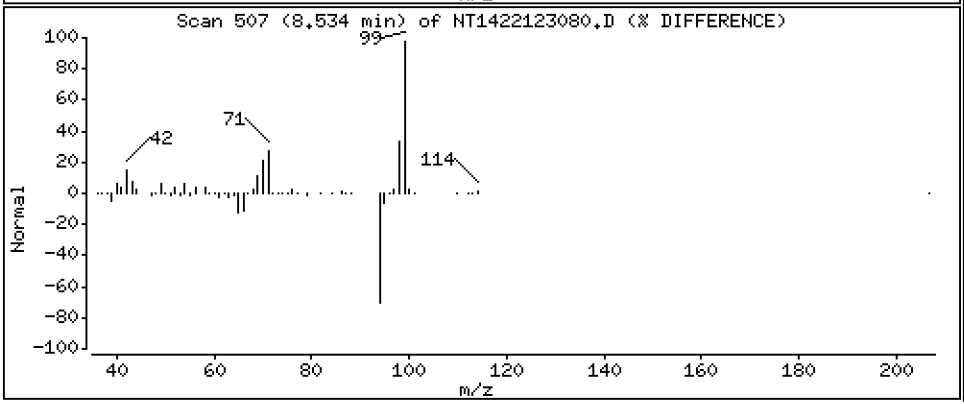












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123080.D

Date : 01-JAN-2023 07:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-10

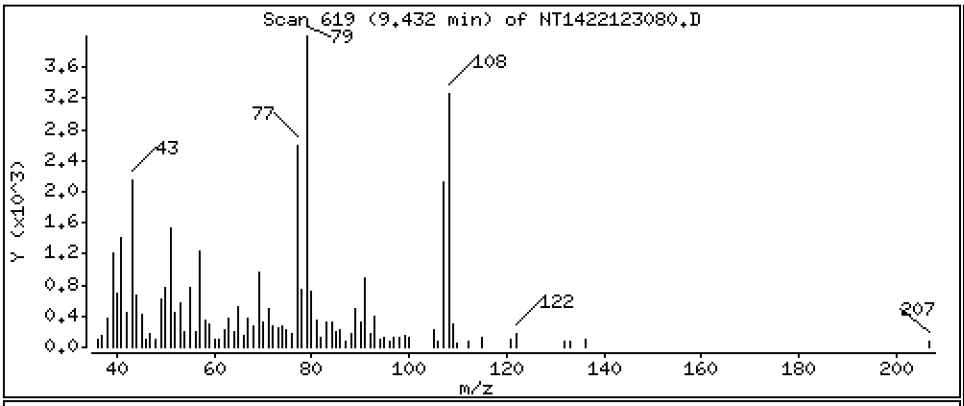
Operator: VTS

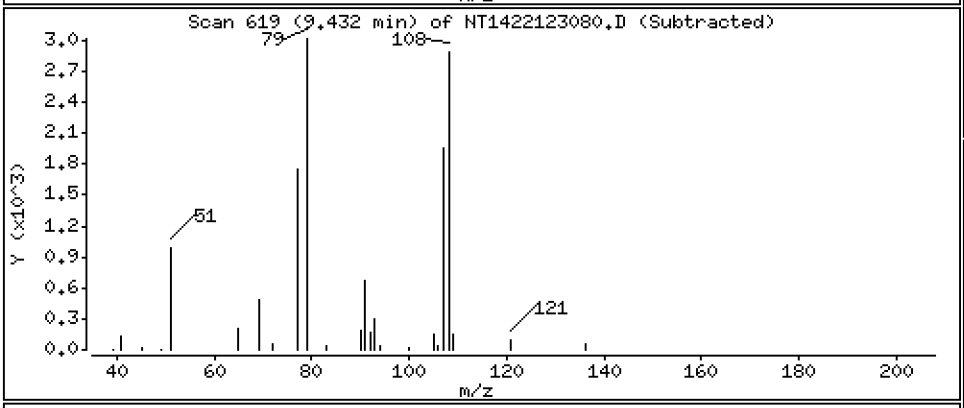
Column phase: ZB-5msi

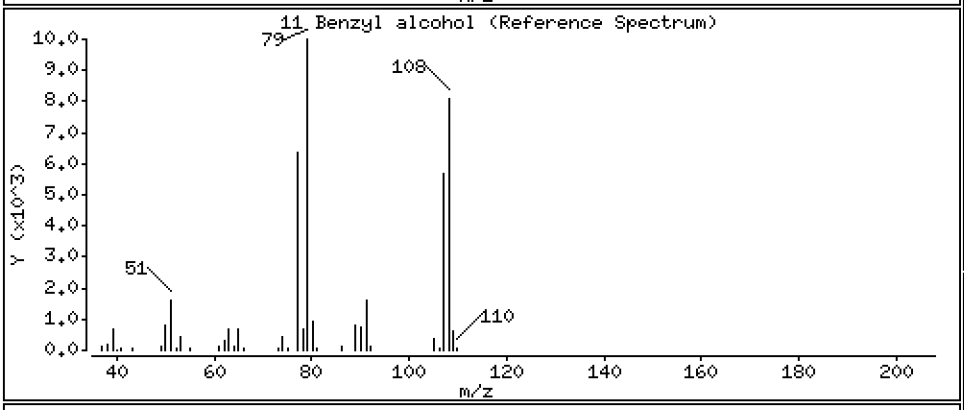
Column diameter: 0.25

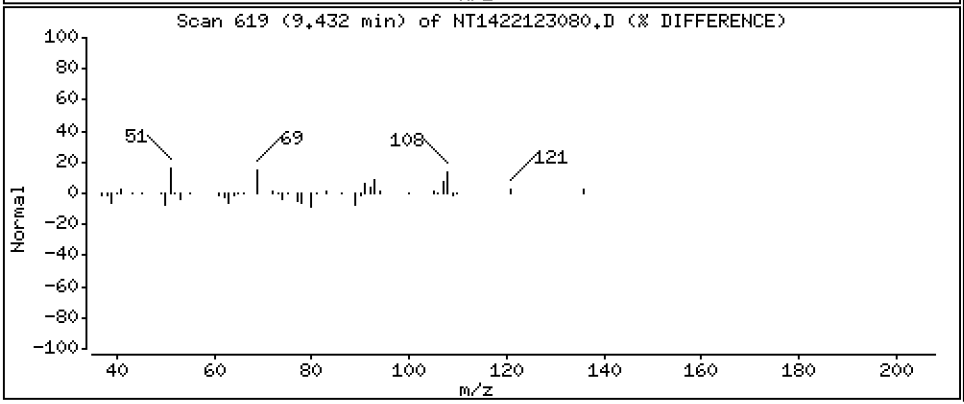
11 Benzyl alcohol

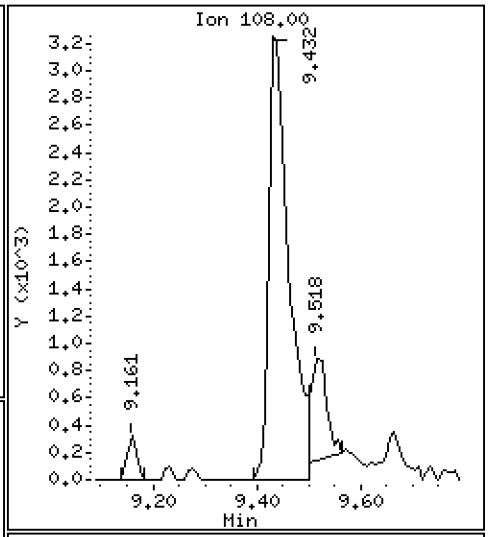
Concentration: 0.5095 ug/mL

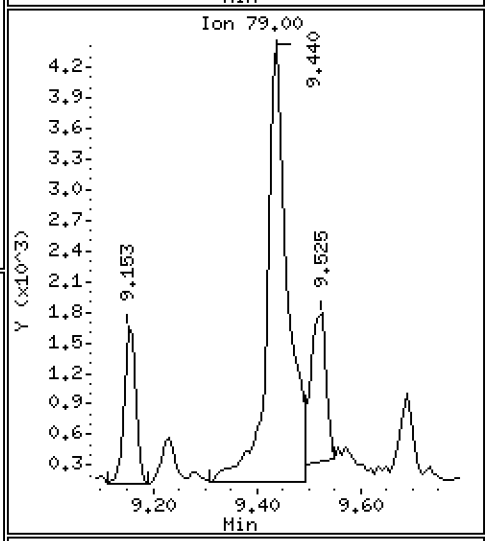


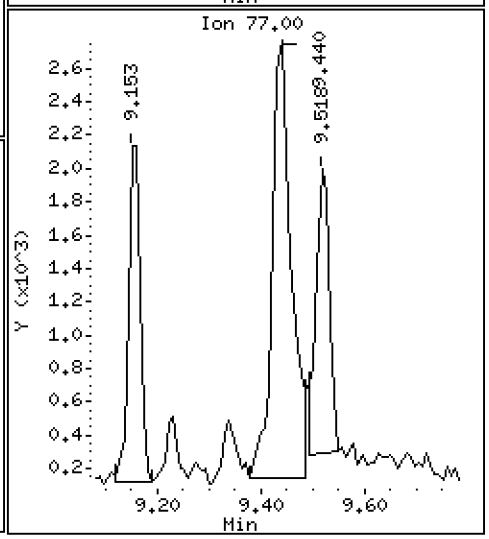












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123080.D

Date : 01-JAN-2023 07:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-10

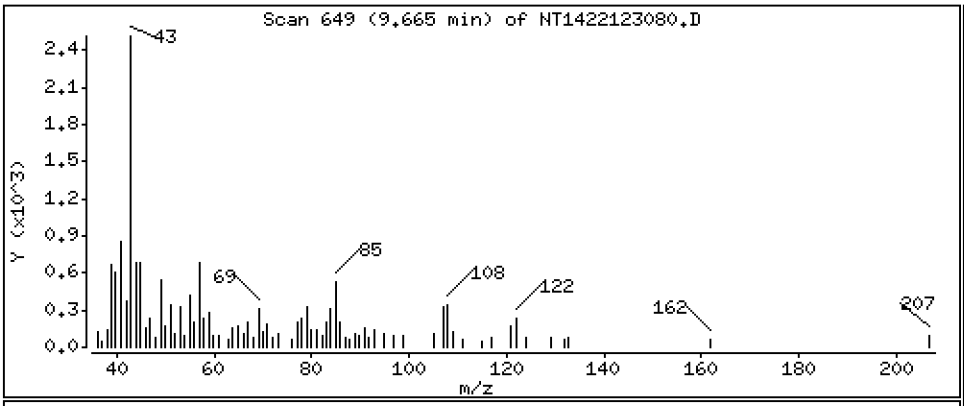
Operator: VTS

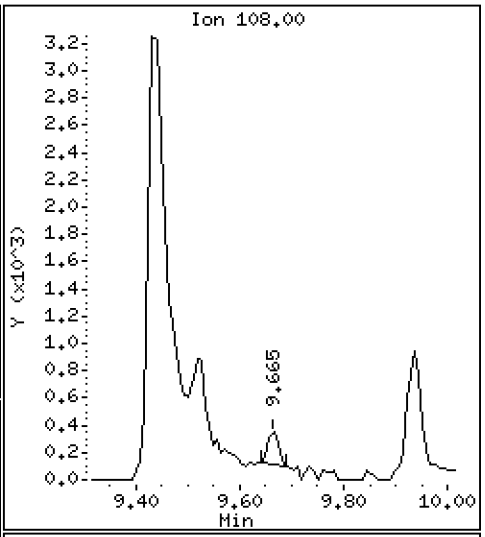
Column phase: ZB-5msi

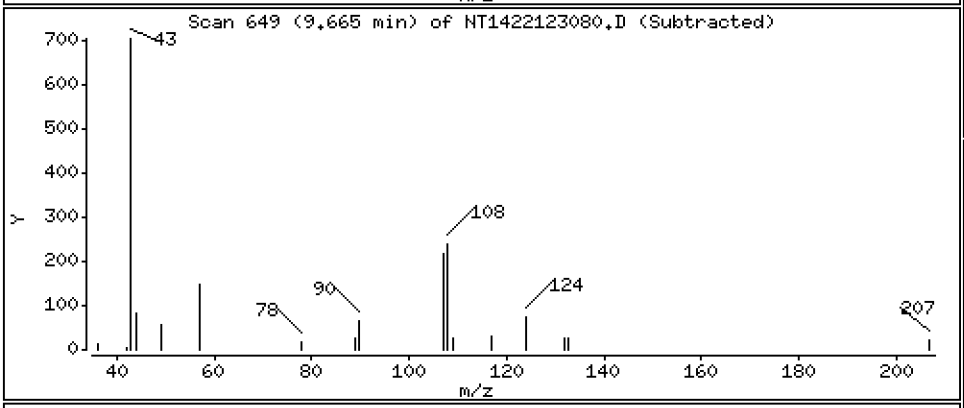
Column diameter: 0.25

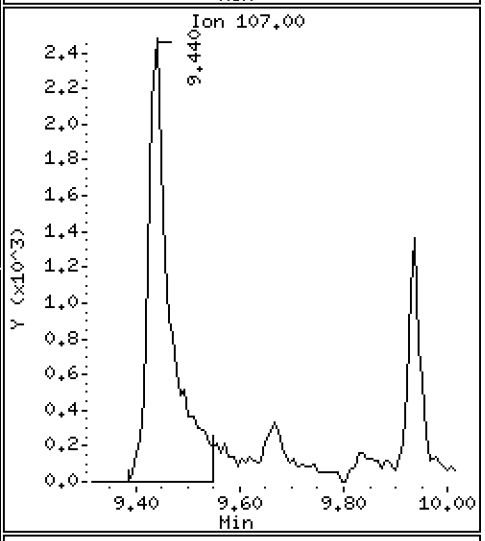
13 2-Methylphenol

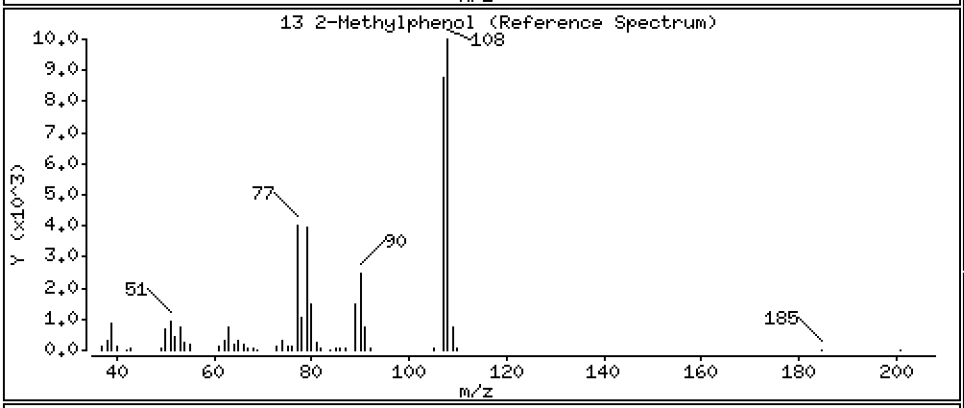
Concentration: 0.01092 ug/mL

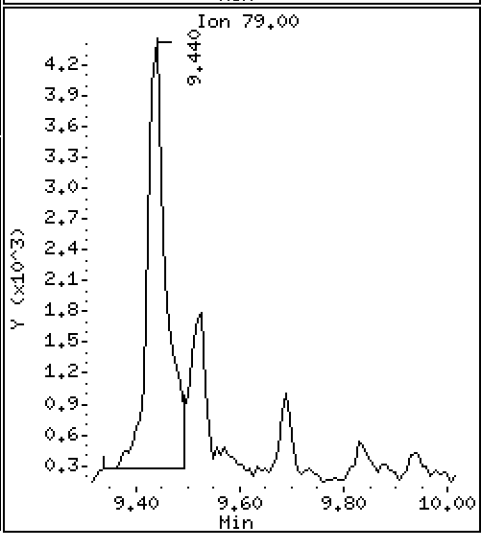


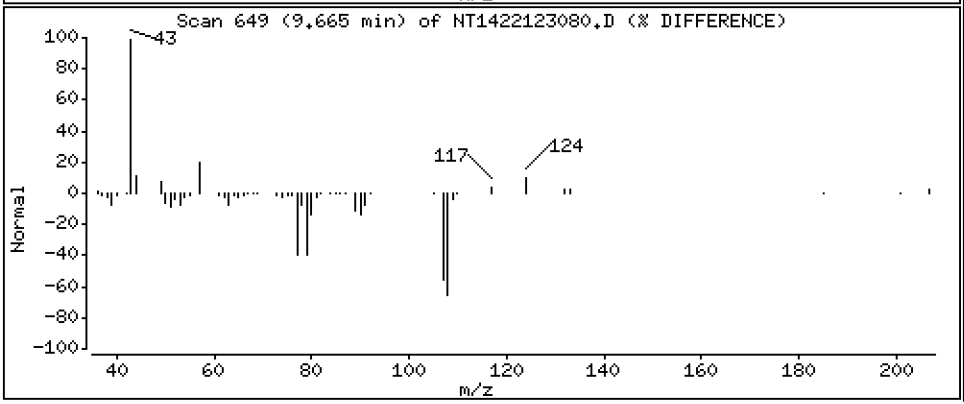












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Date : 01-JAN-2023 07:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-10

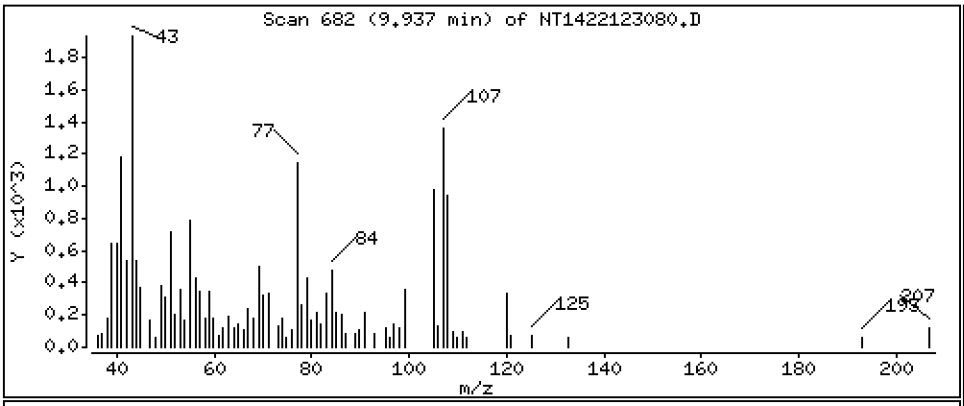
Operator: VTS

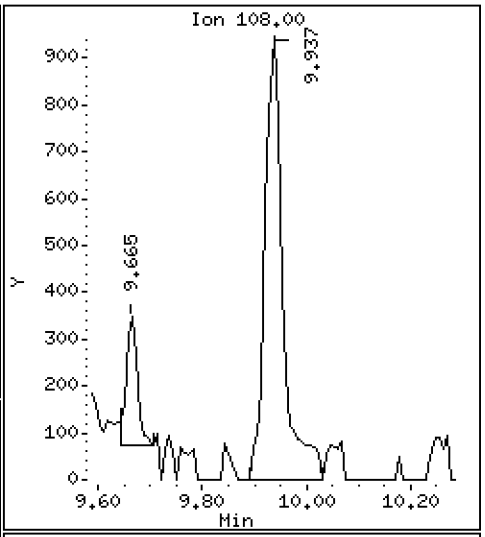
Column phase: ZB-5msi

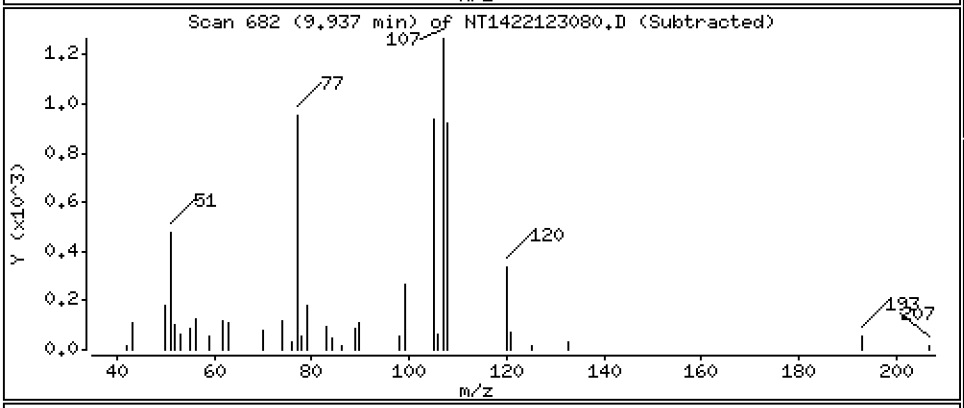
Column diameter: 0.25

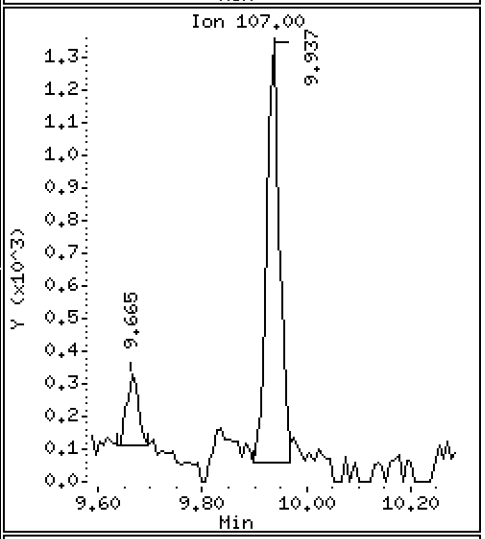
15 4-Methylphenol

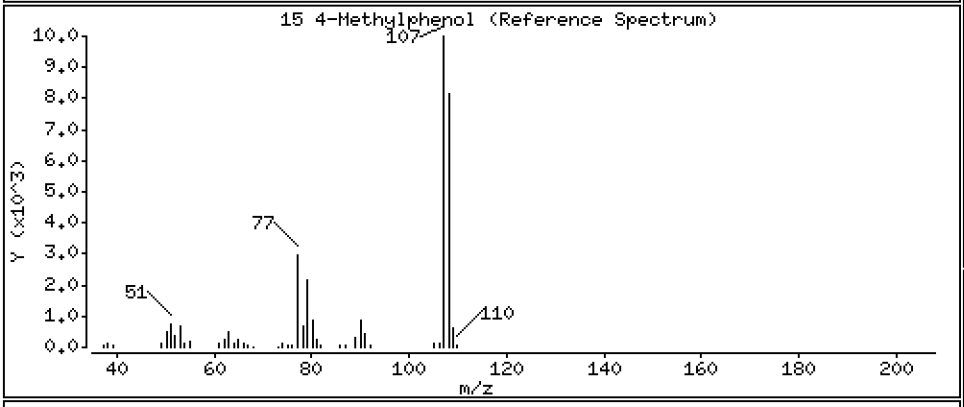
Concentration: 0.07497 ug/mL

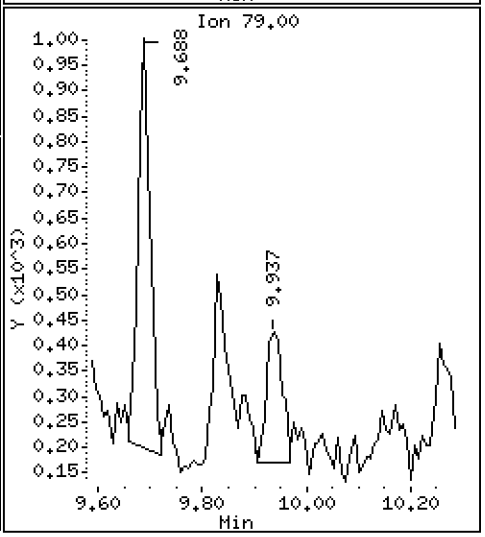


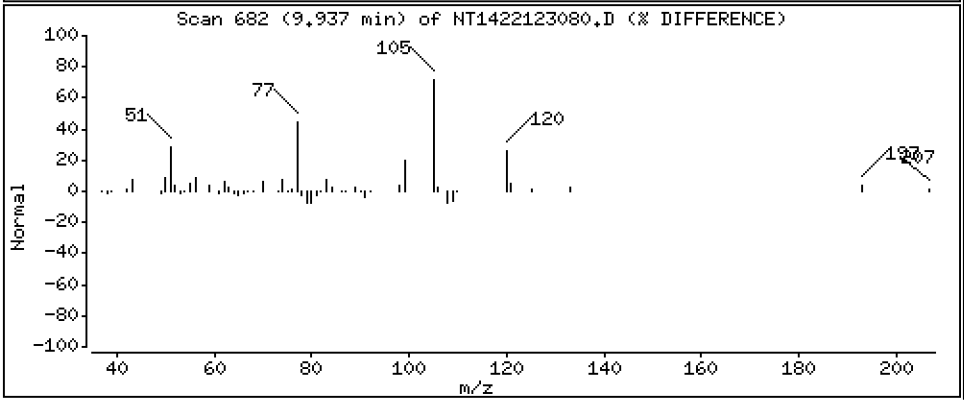












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Date : 01-JAN-2023 07:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-10

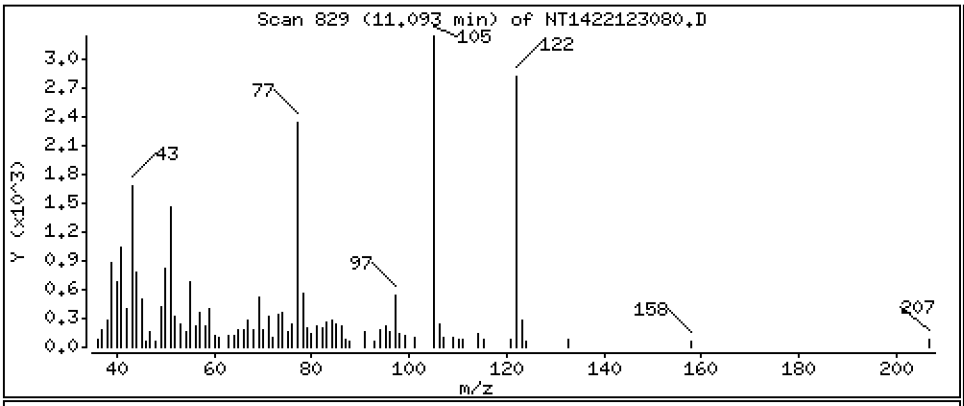
Operator: VTS

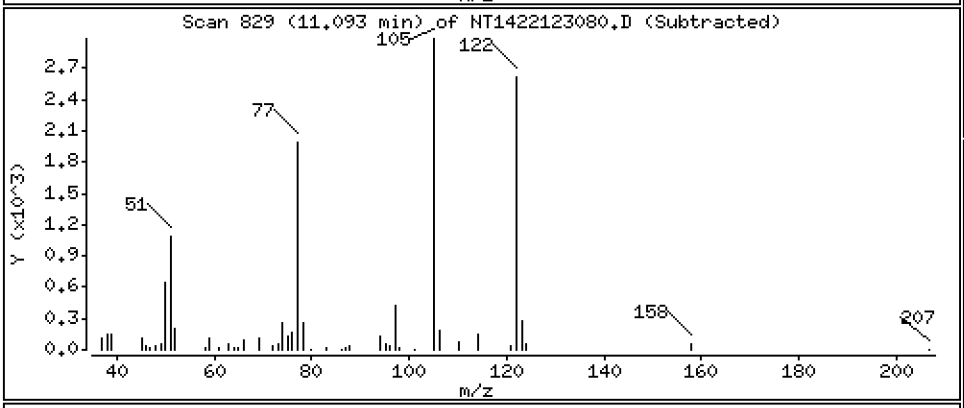
Column phase: ZB-5msi

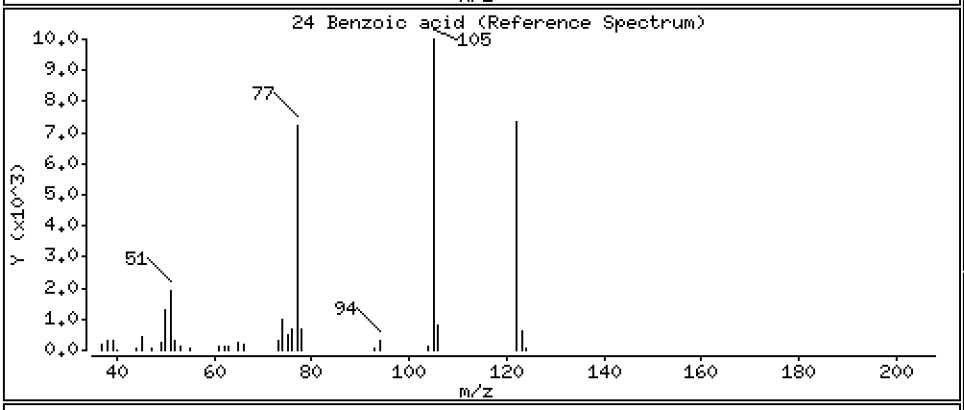
Column diameter: 0.25

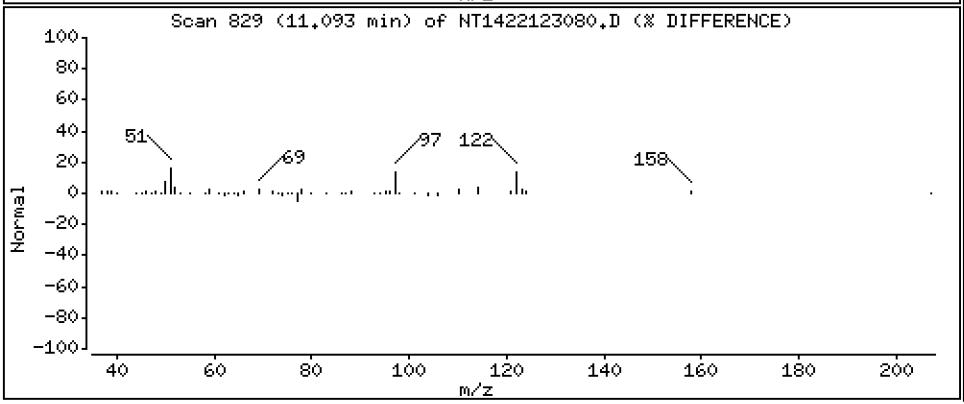
24 Benzoic acid

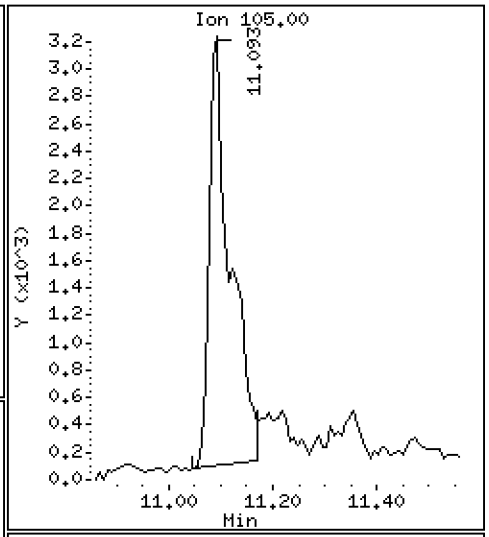
Concentration: 0.5414 ug/mL

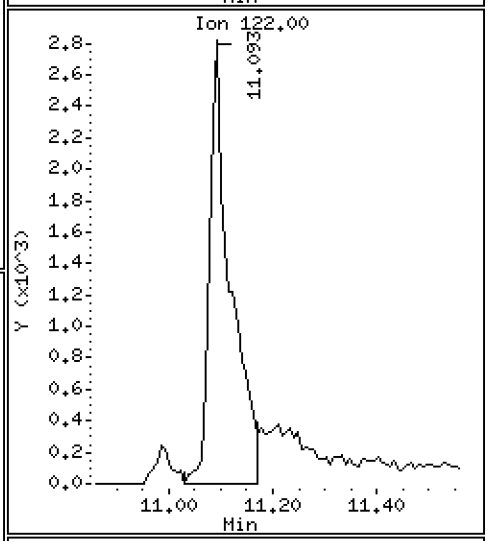


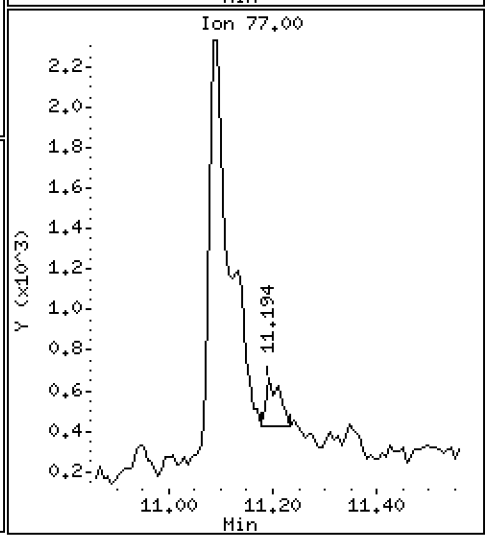












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Date : 01-JAN-2023 07:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-10

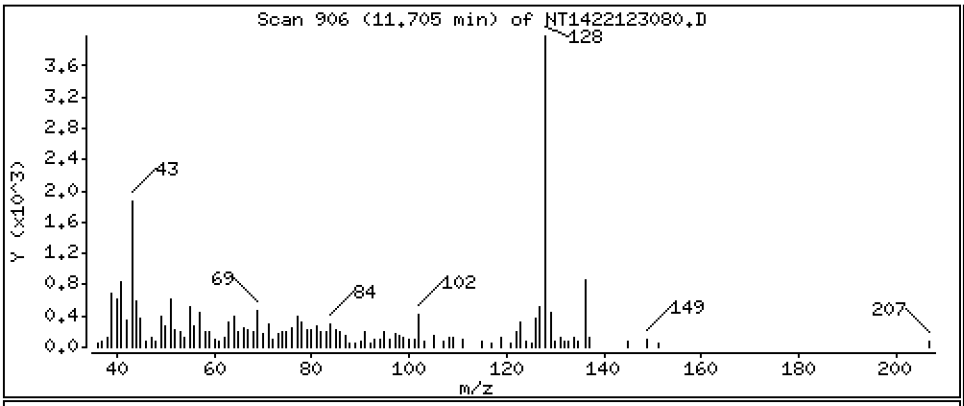
Operator: VTS

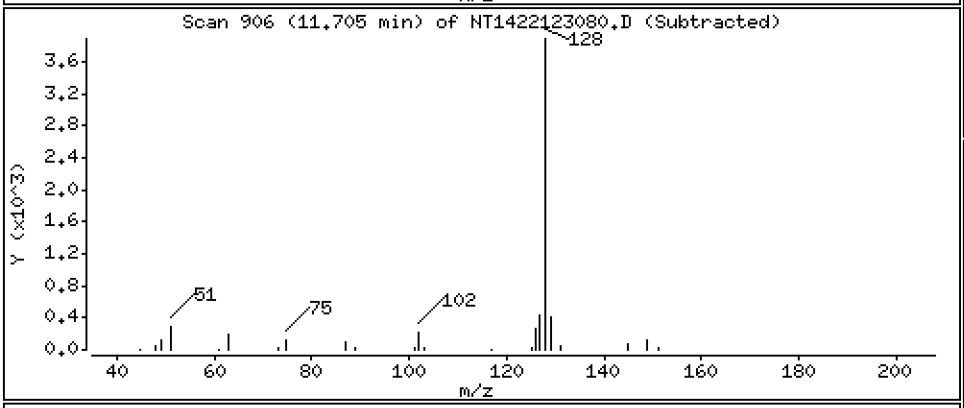
Column phase: ZB-5msi

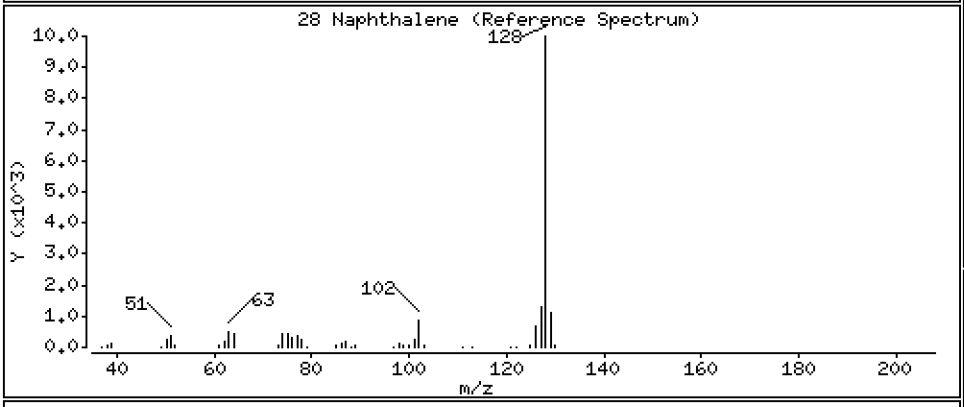
Column diameter: 0.25

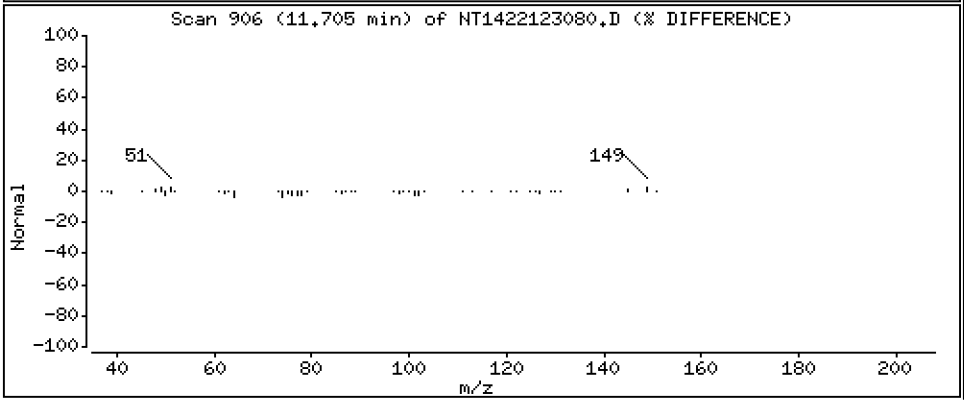
28 Naphthalene

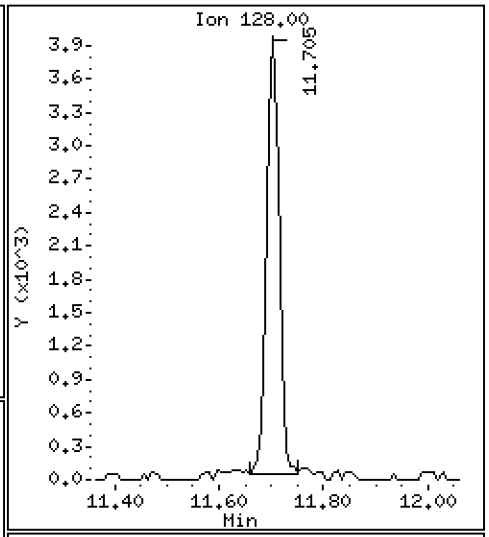
Concentration: 0.08030 ug/mL

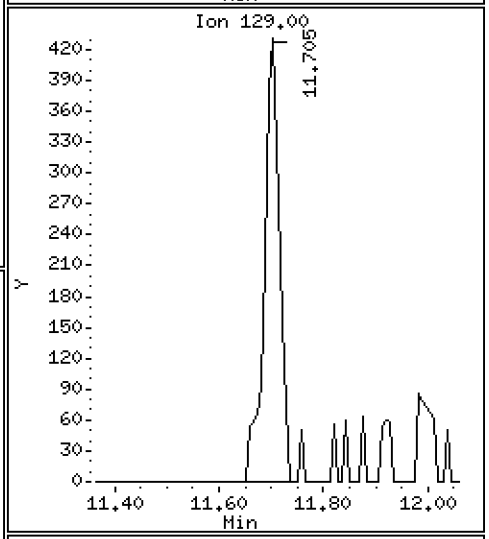


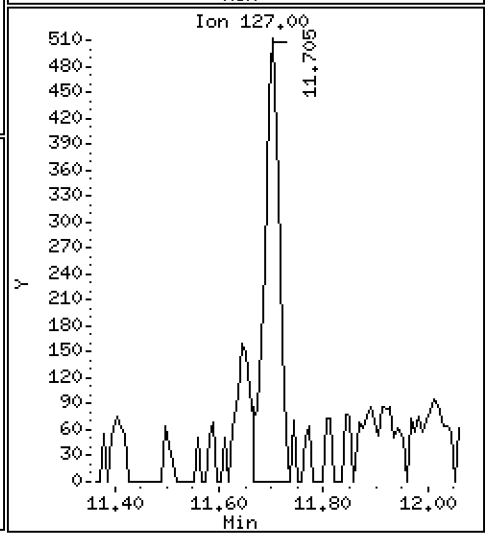












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Date : 01-JAN-2023 07:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-10

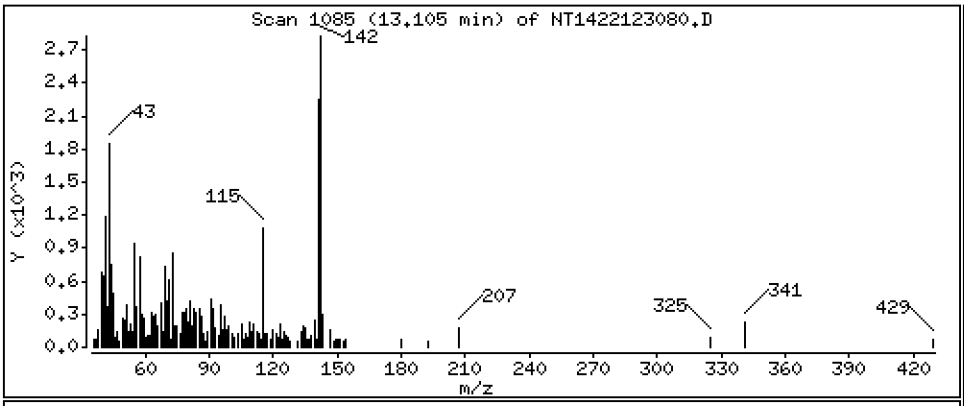
Operator: VTS

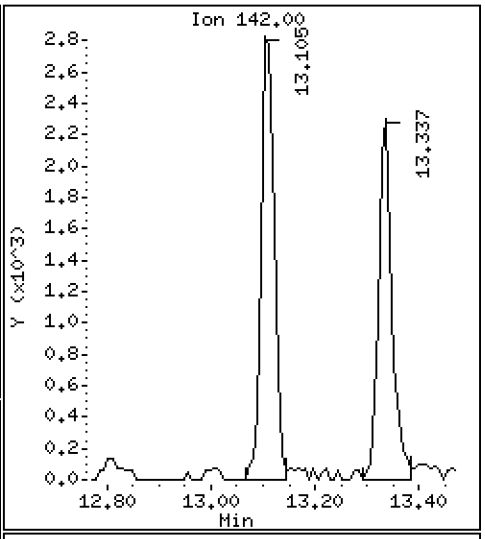
Column phase: ZB-5msi

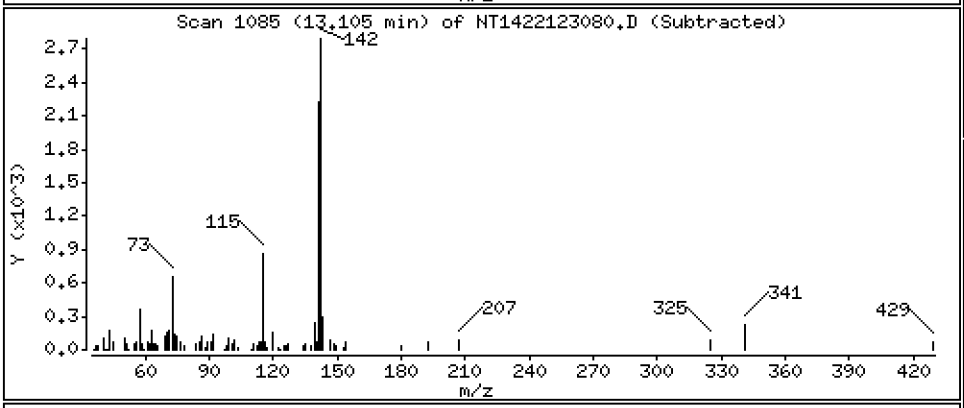
Column diameter: 0.25

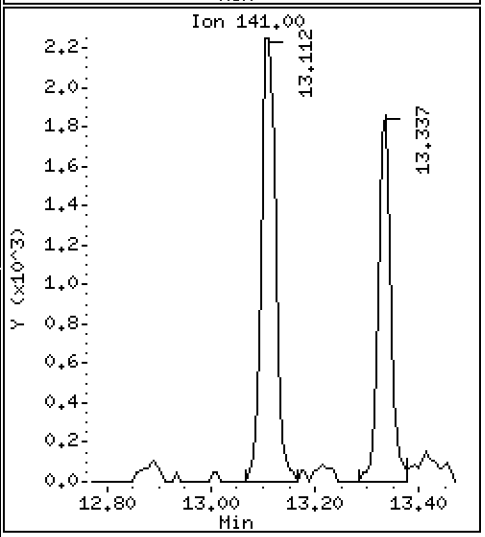
32 2-Methylnaphthalene

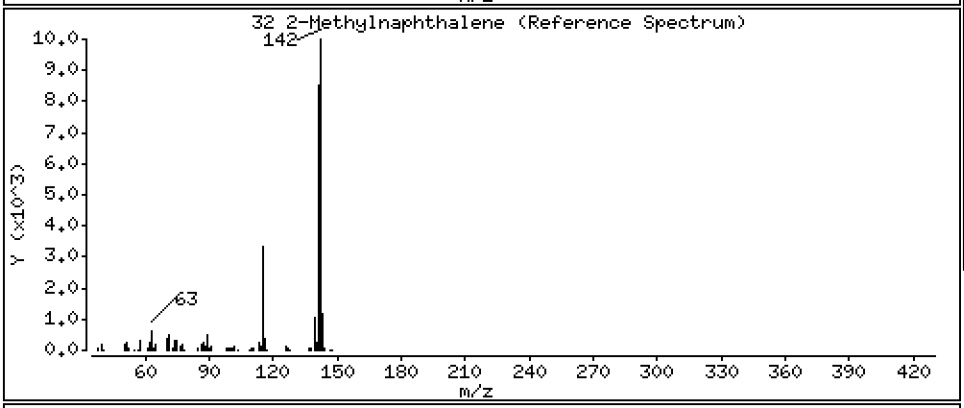
Concentration: 0.08369 ug/mL

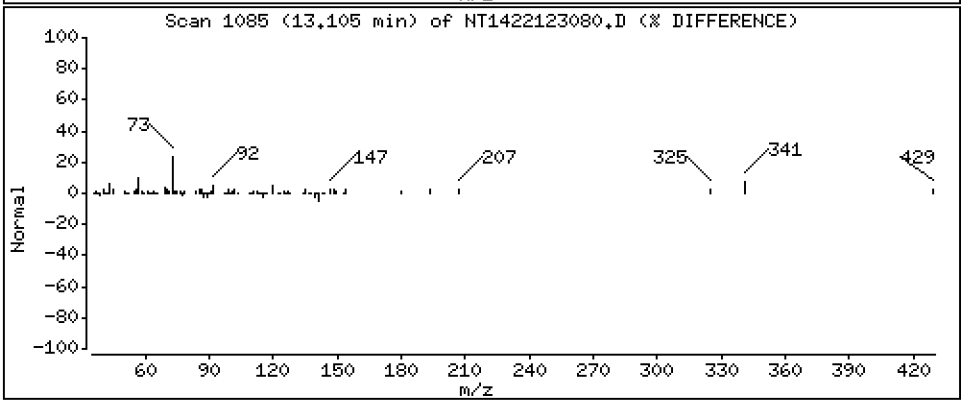












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Date : 01-JAN-2023 07:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-10

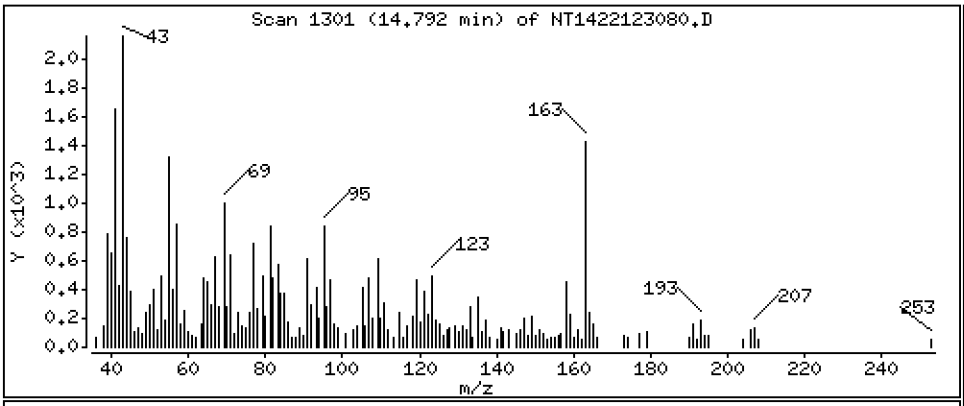
Operator: VTS

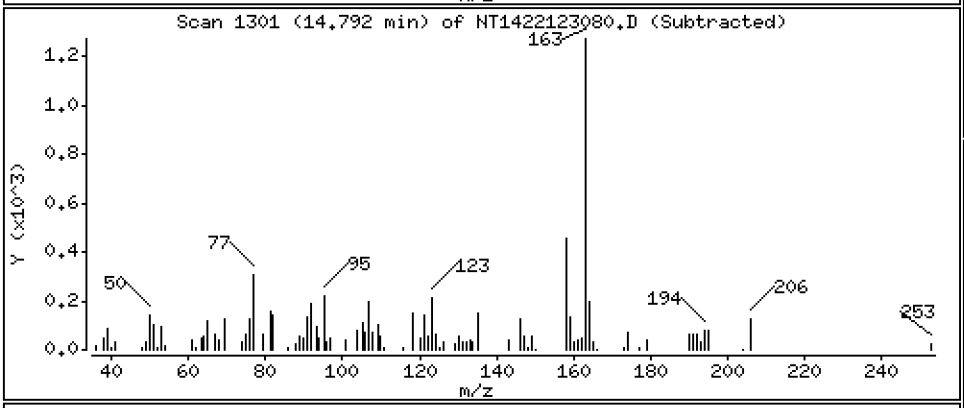
Column phase: ZB-5msi

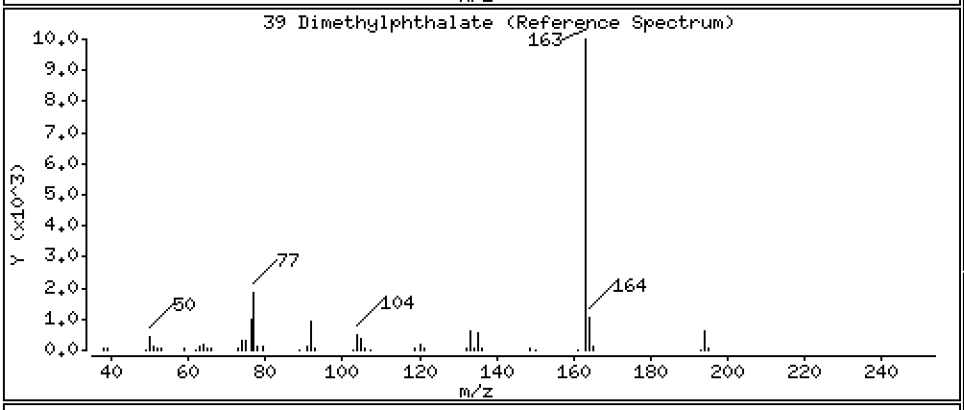
Column diameter: 0.25

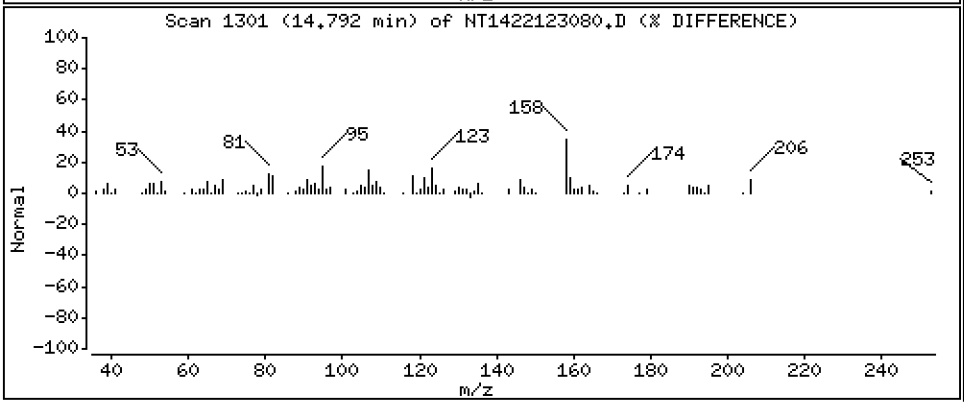
39 Dimethylphthalate

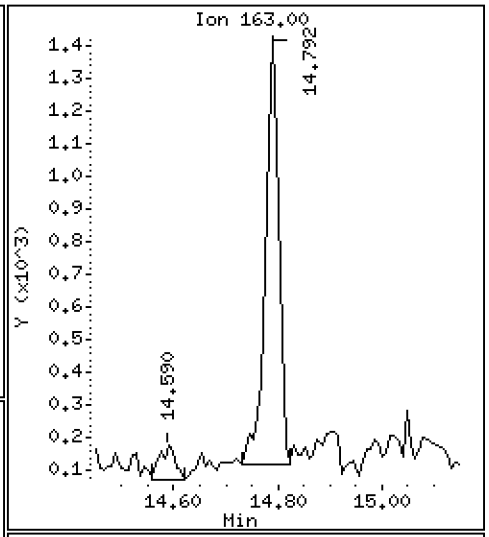
Concentration: 0.05159 ug/mL

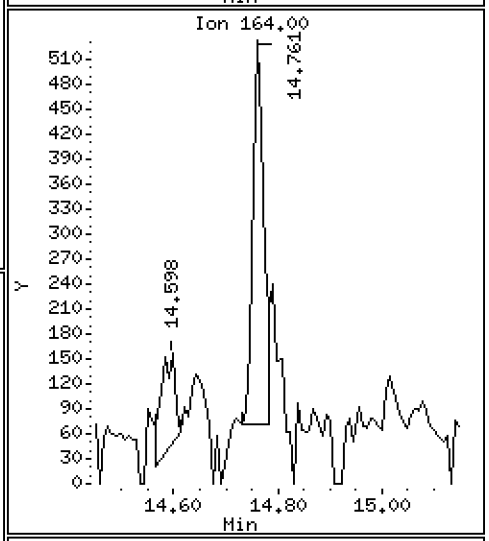


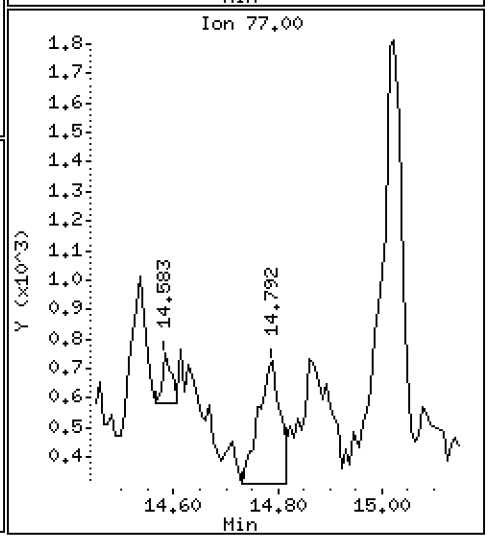












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Date : 01-JAN-2023 07:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-10

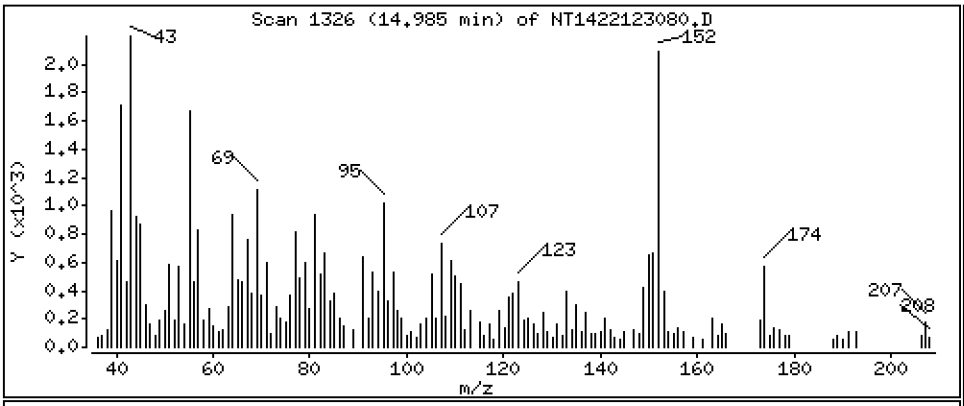
Operator: VTS

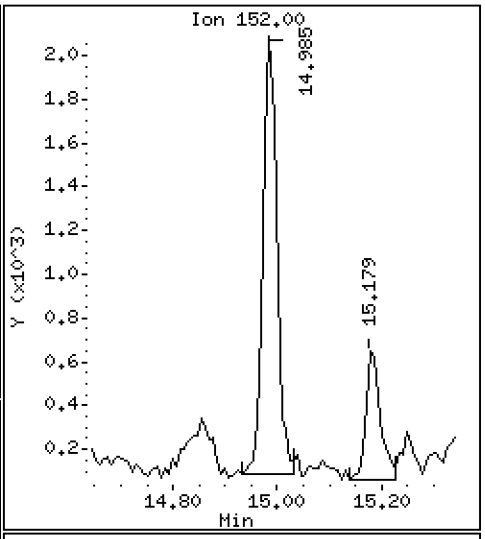
Column phase: ZB-5msi

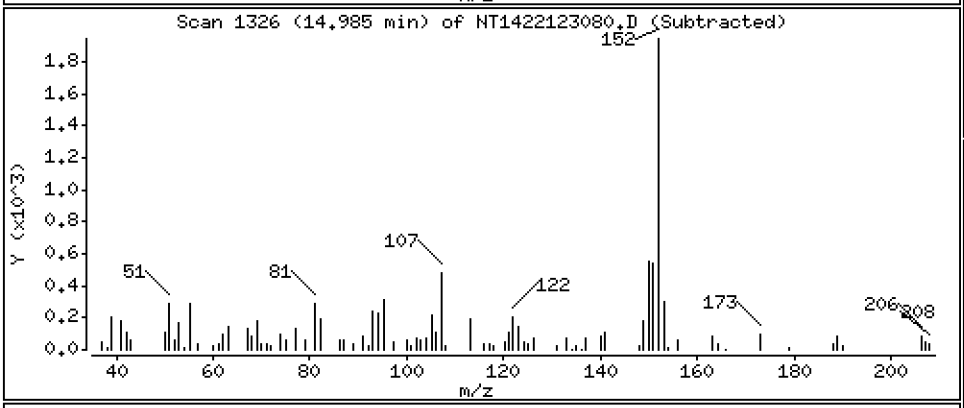
Column diameter: 0.25

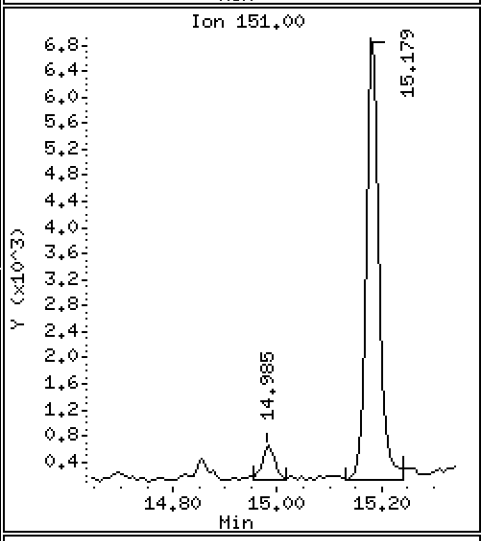
40 Acenaphthylene

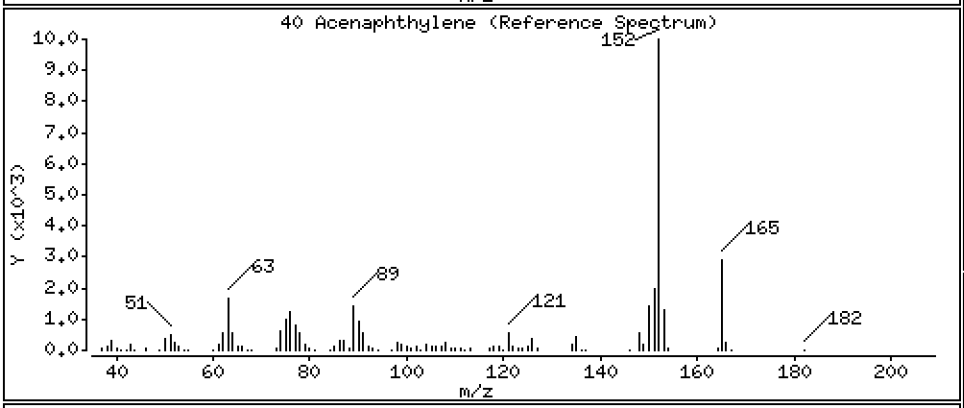
Concentration: 0.05086 ug/mL

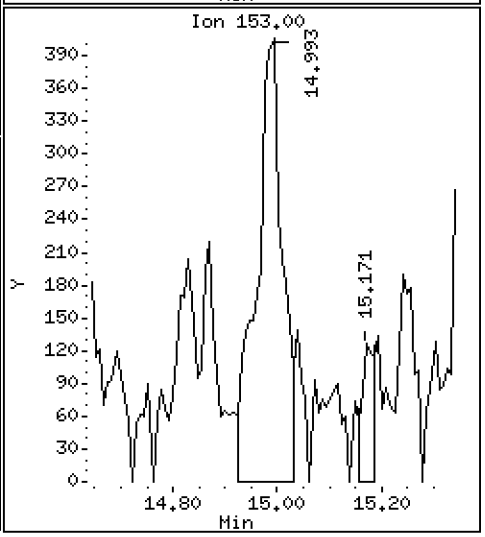


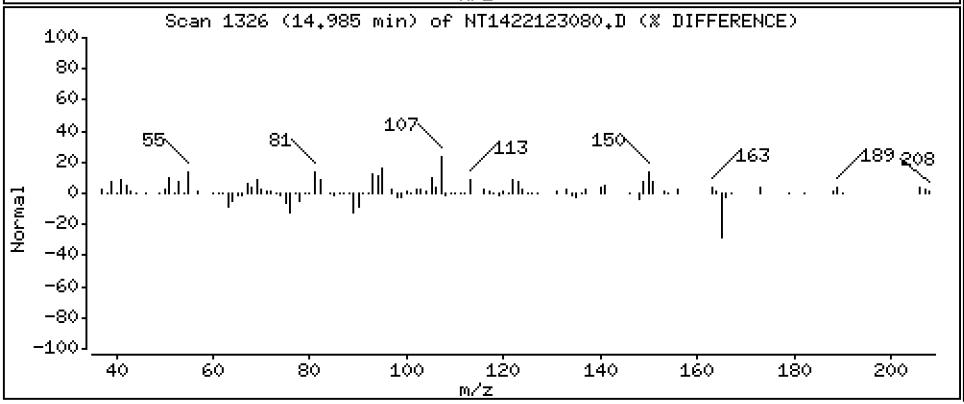












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123080.D

Date : 01-JAN-2023 07:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-10

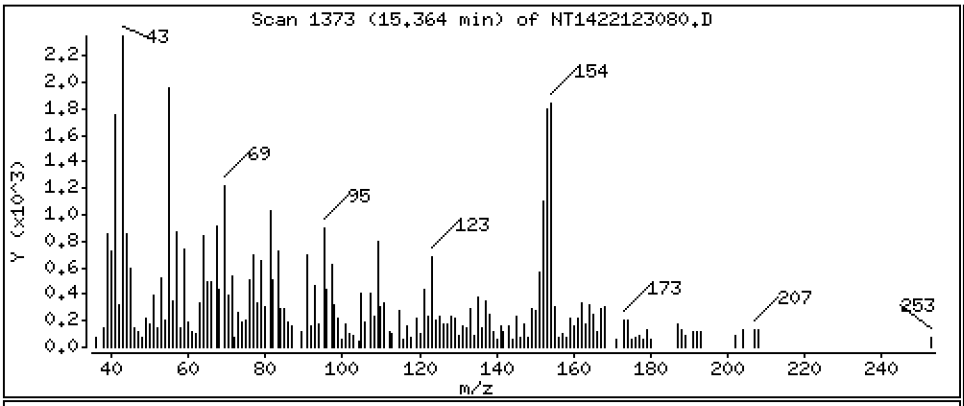
Operator: VTS

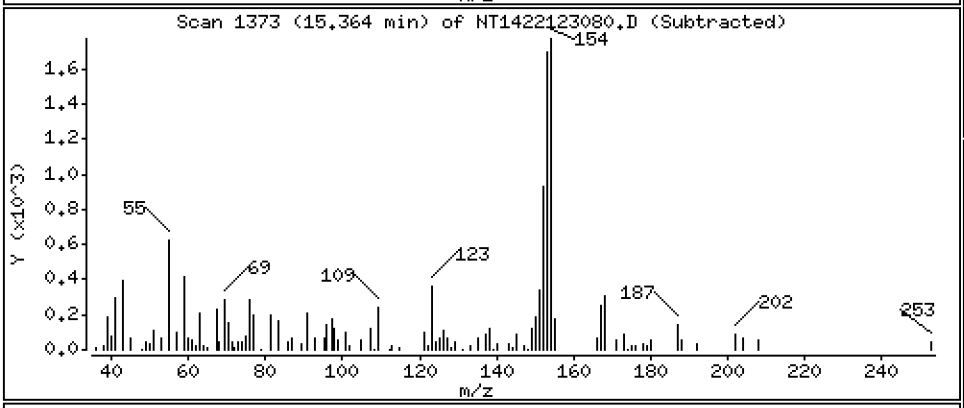
Column phase: ZB-5msi

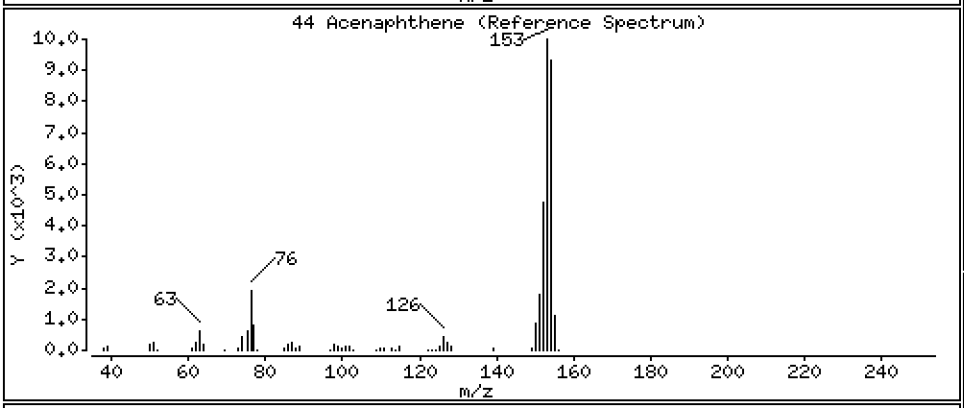
Column diameter: 0.25

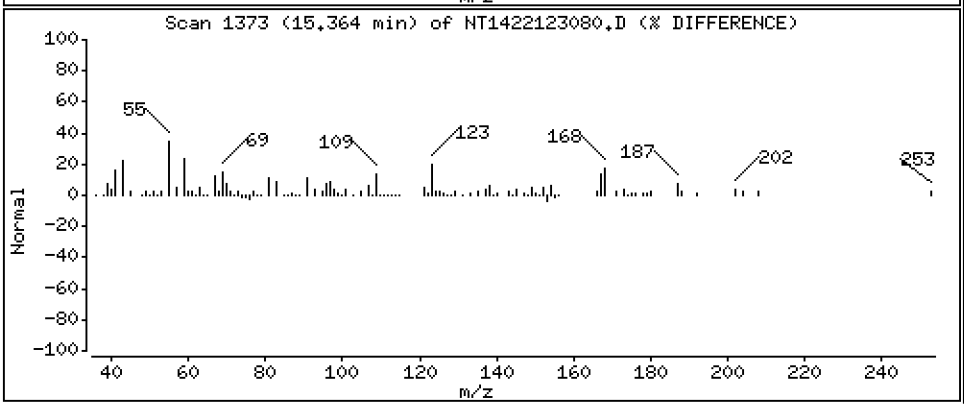
44 Acenaphthene

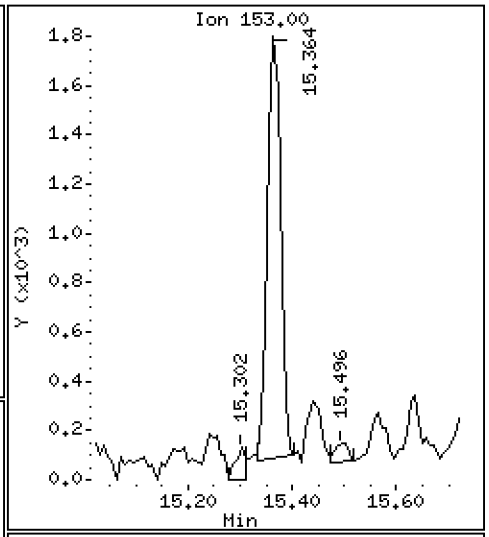
Concentration: 0.06722 ug/mL

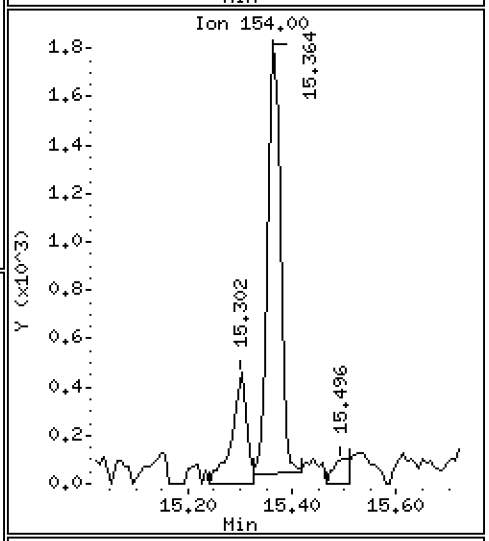


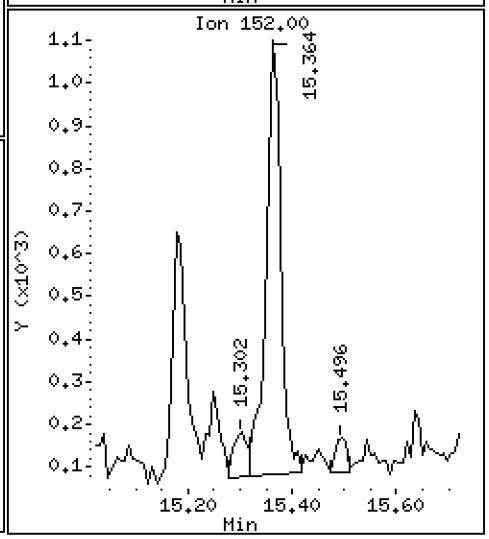












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Date : 01-JAN-2023 07:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-10

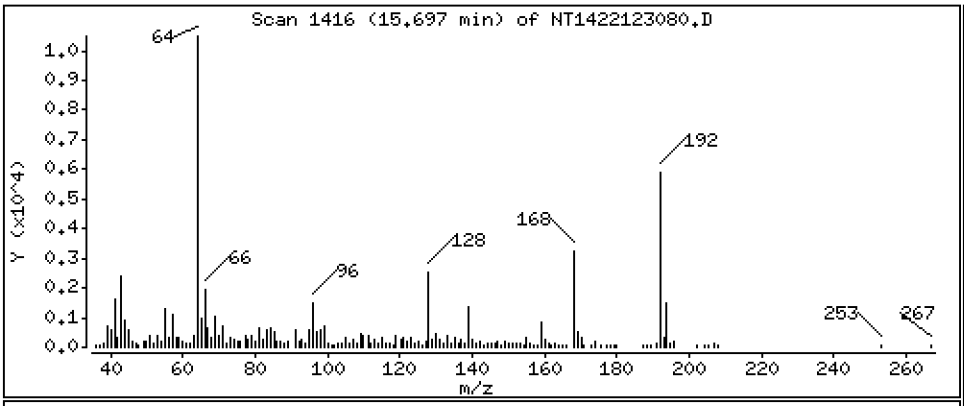
Operator: VTS

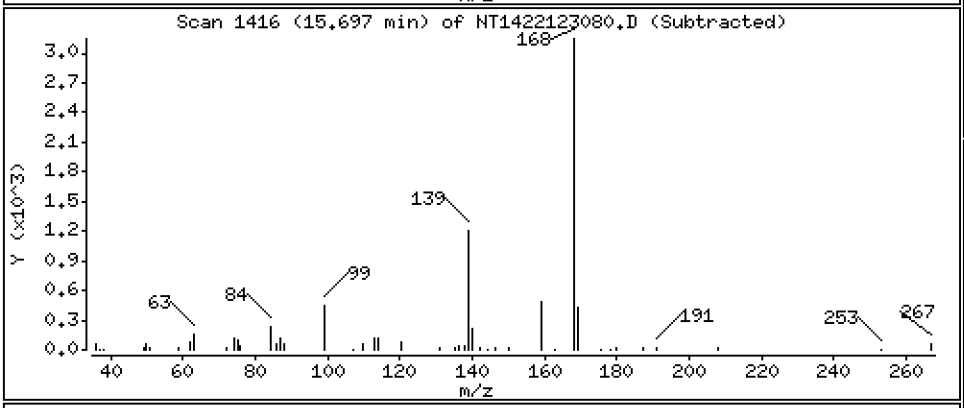
Column phase: ZB-5msi

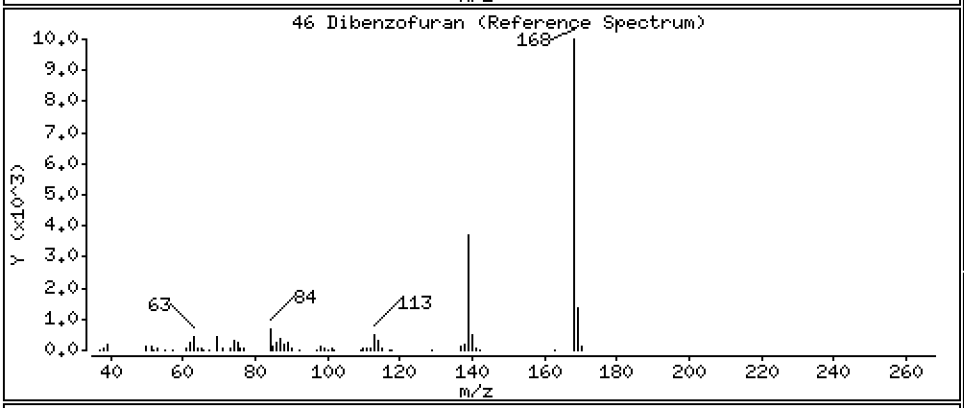
Column diameter: 0.25

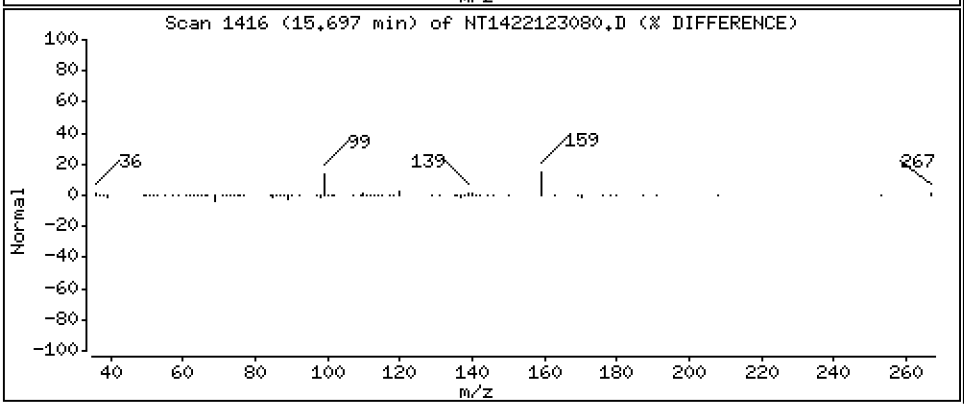
46 Dibenzofuran

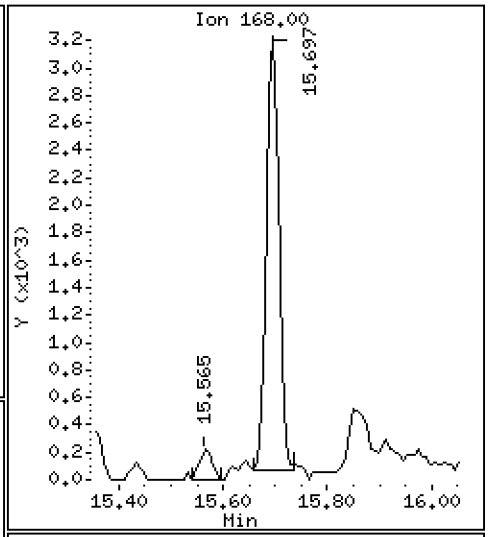
Concentration: 0.07722 ug/mL

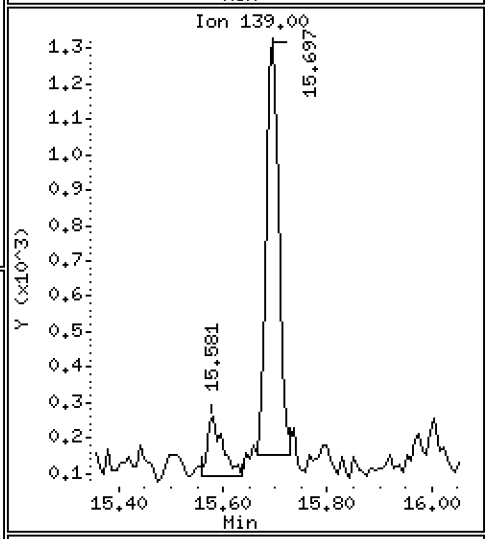


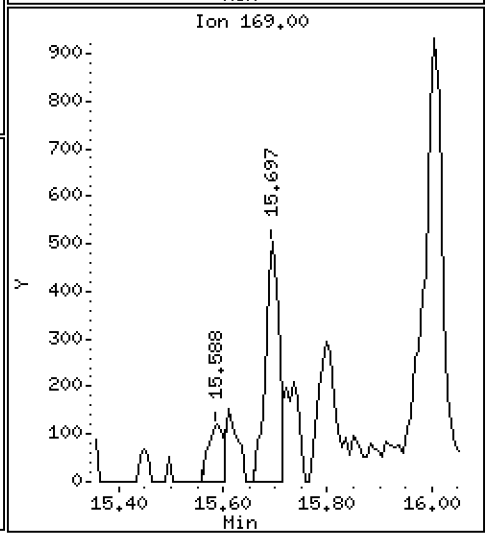












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Date : 01-JAN-2023 07:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-10

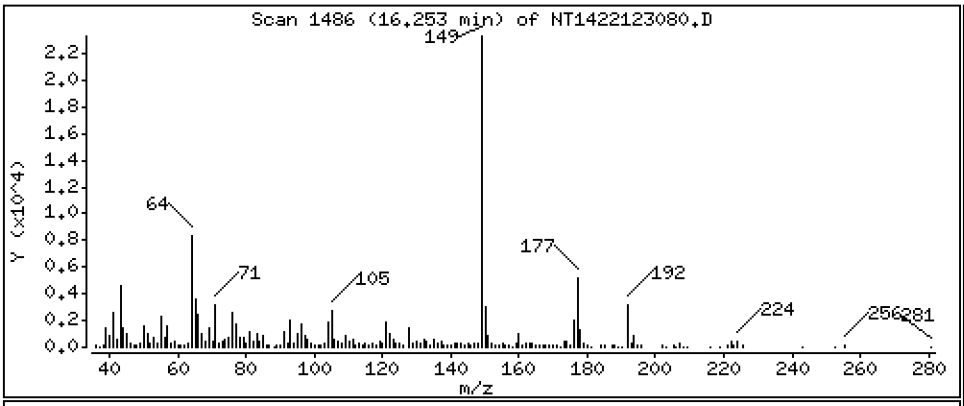
Operator: VTS

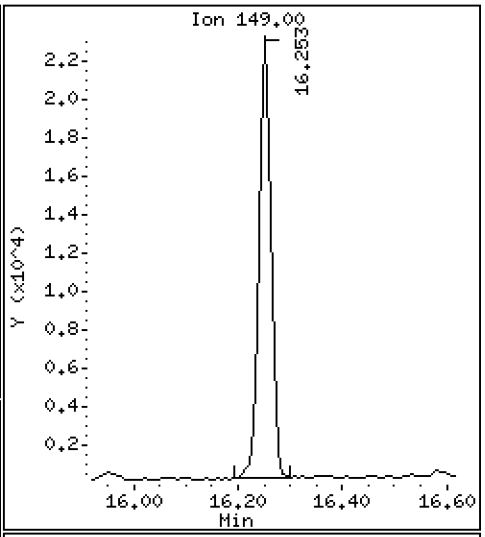
Column phase: ZB-5msi

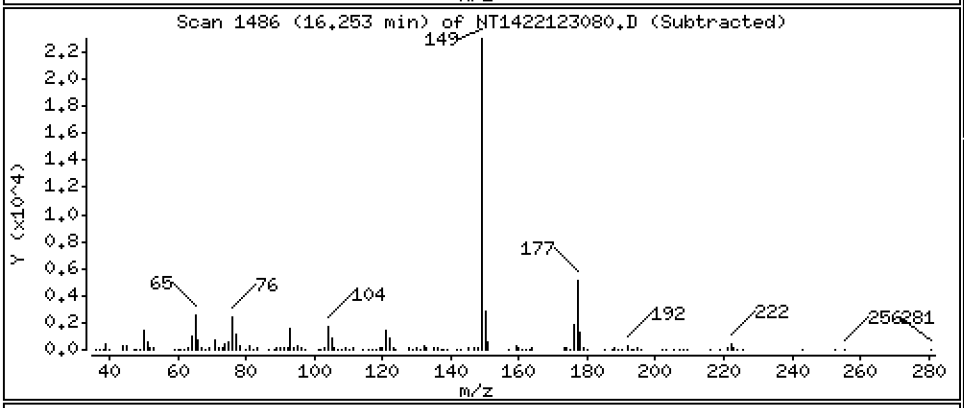
Column diameter: 0.25

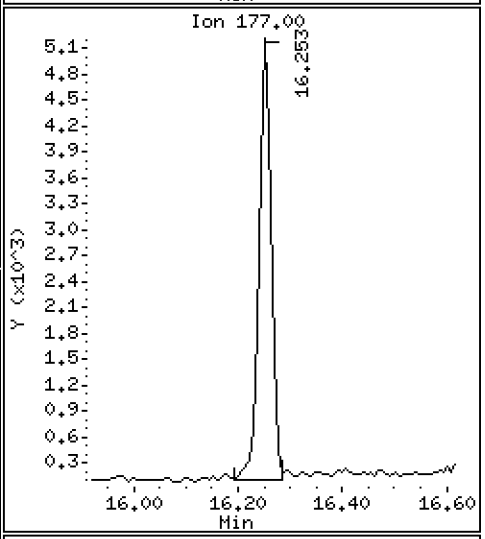
50 Diethylphthalate

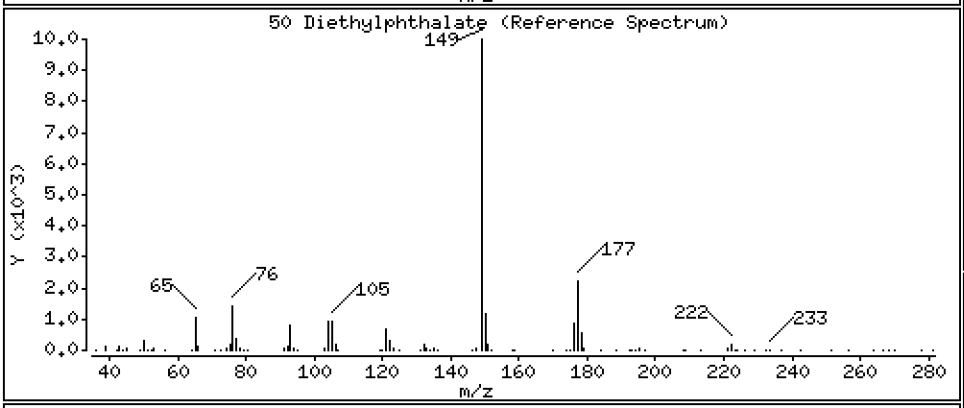
Concentration: 0.6855 ug/mL

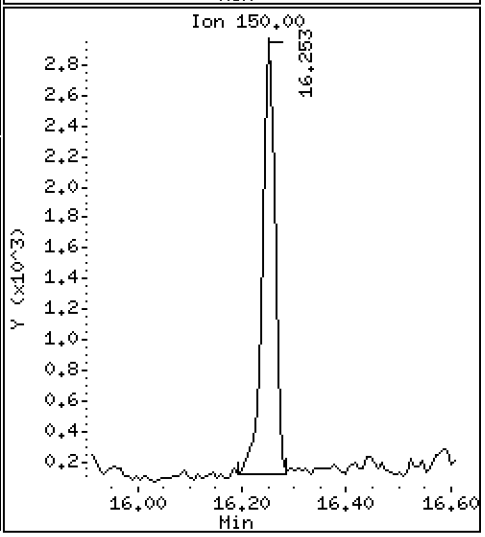


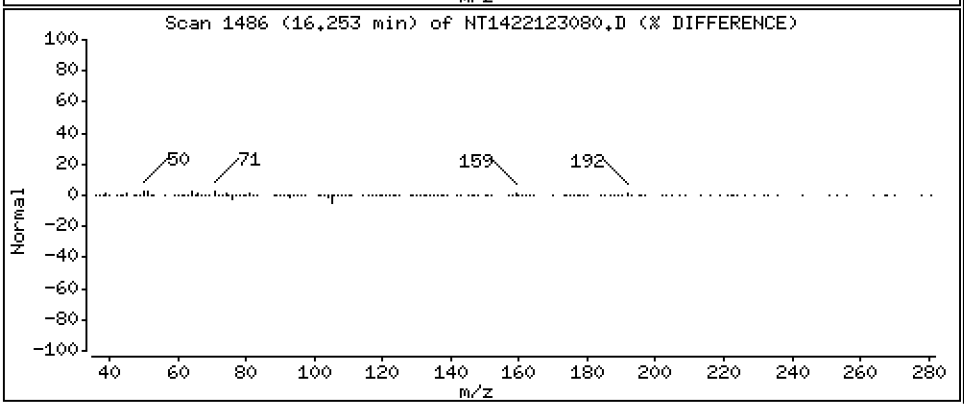












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Date : 01-JAN-2023 07:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-10

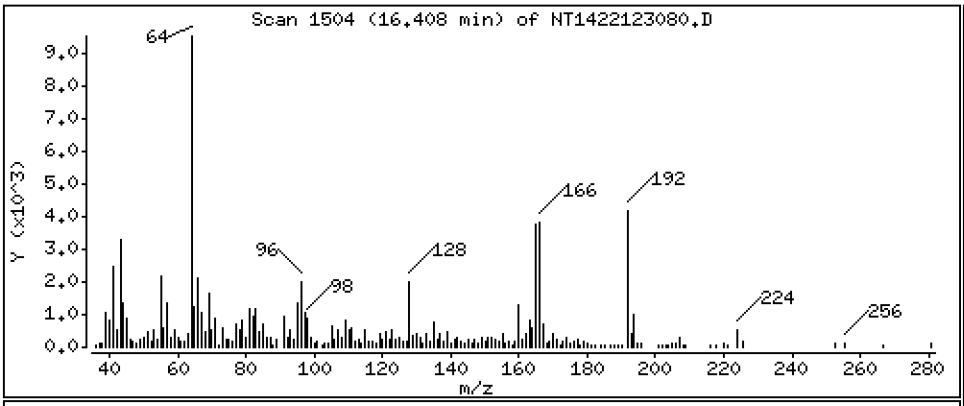
Operator: VTS

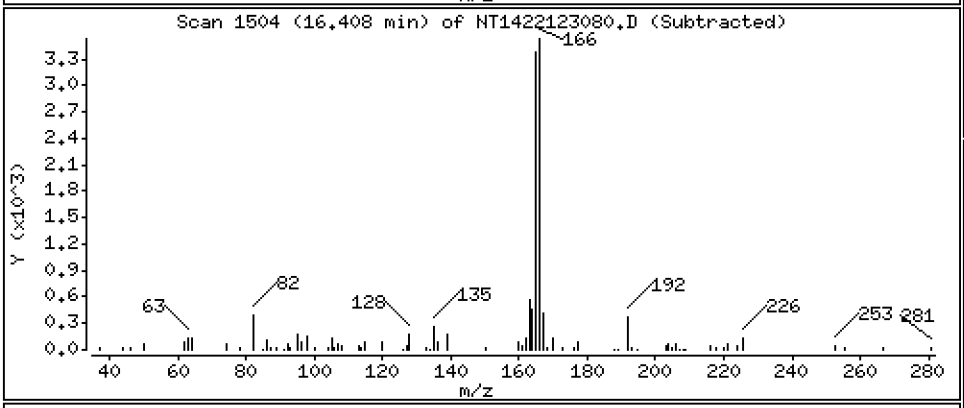
Column phase: ZB-5msi

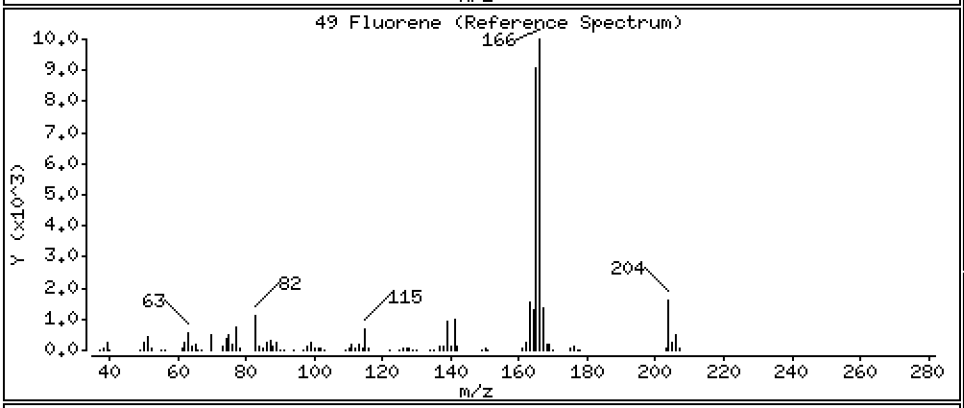
Column diameter: 0.25

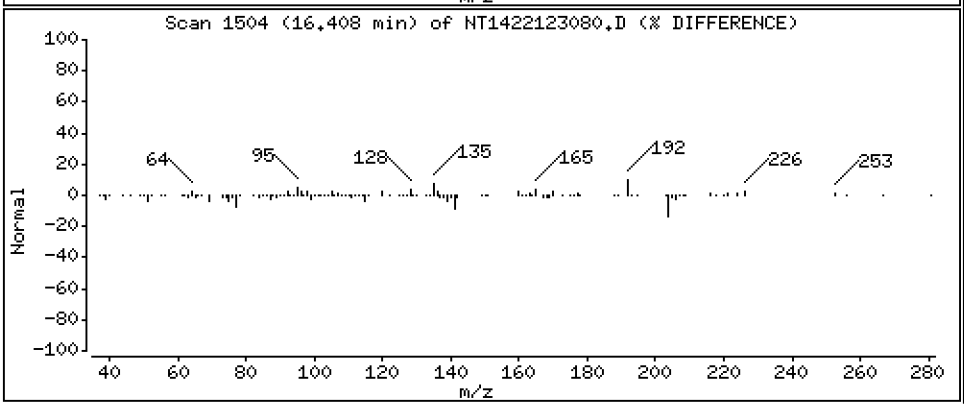
49 Fluorene

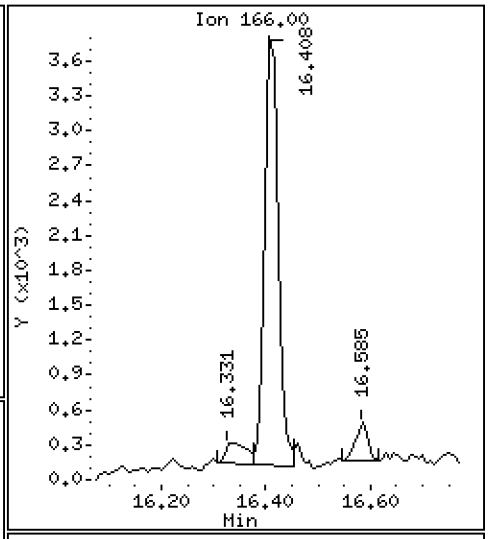
Concentration: 0.09246 ug/mL

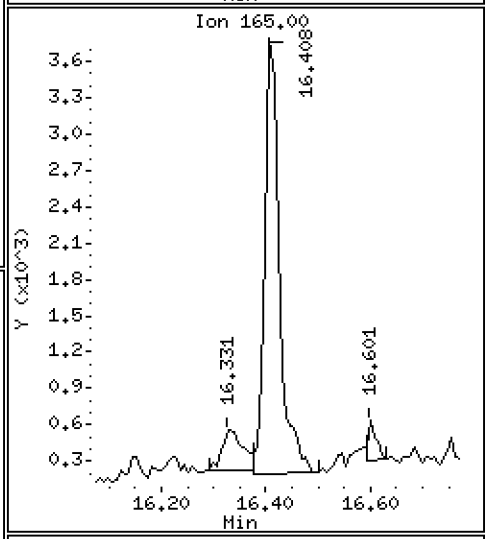


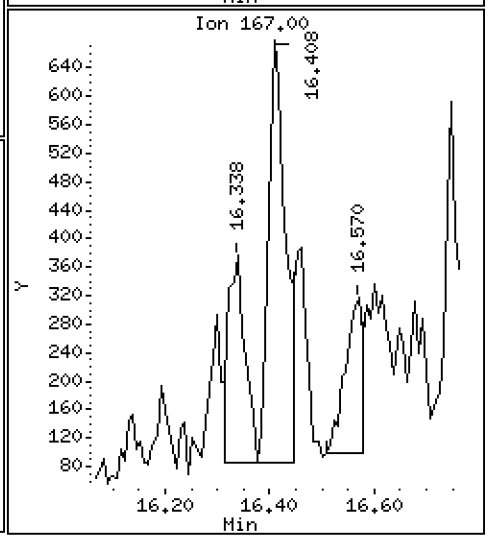












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Date : 01-JAN-2023 07:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-10

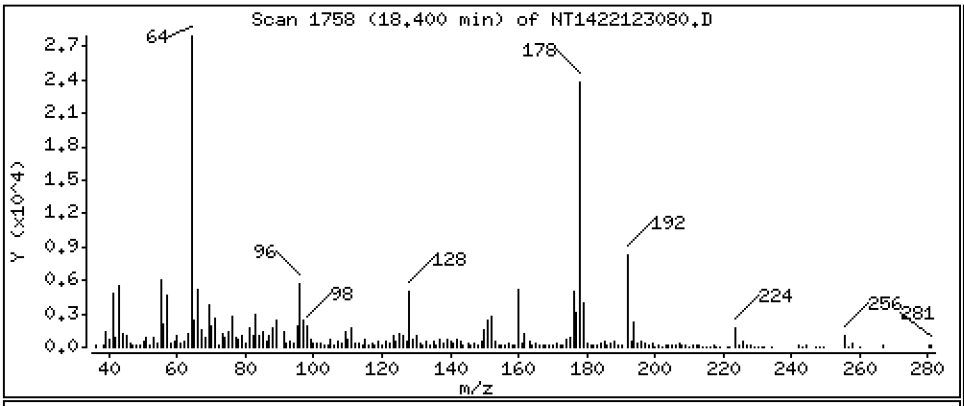
Operator: VTS

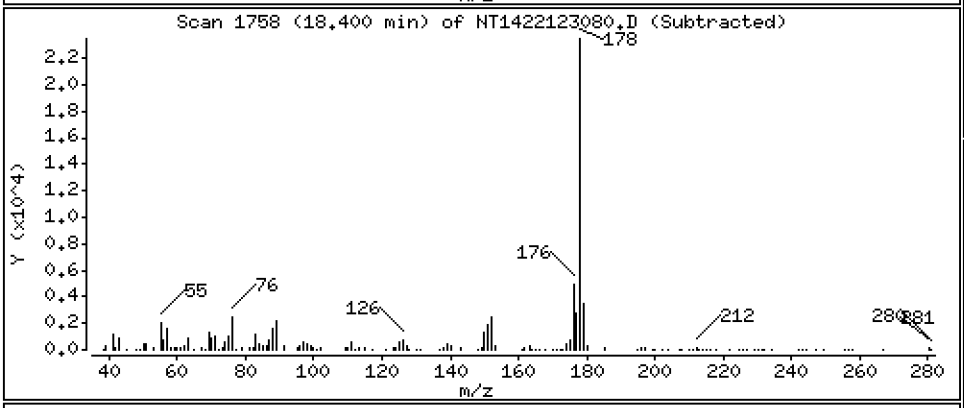
Column phase: ZB-5msi

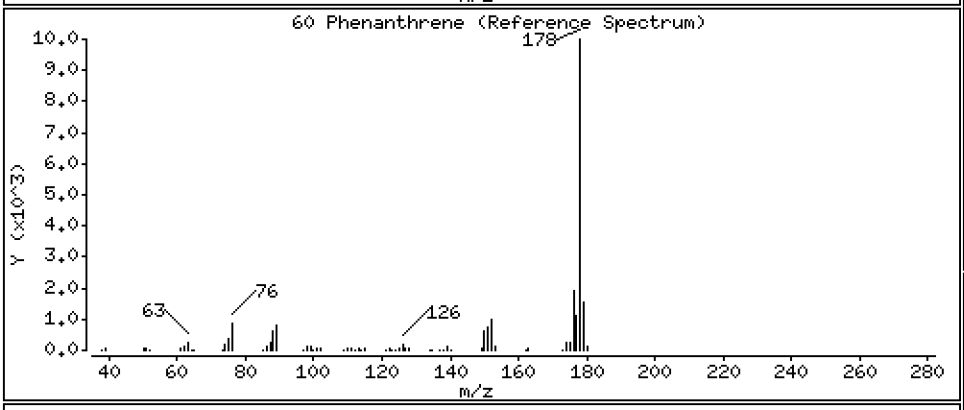
Column diameter: 0.25

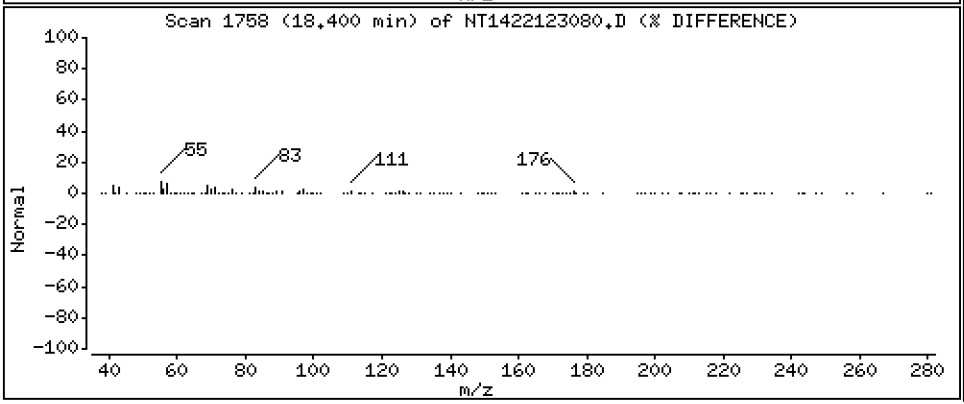
60 Phenanthrene

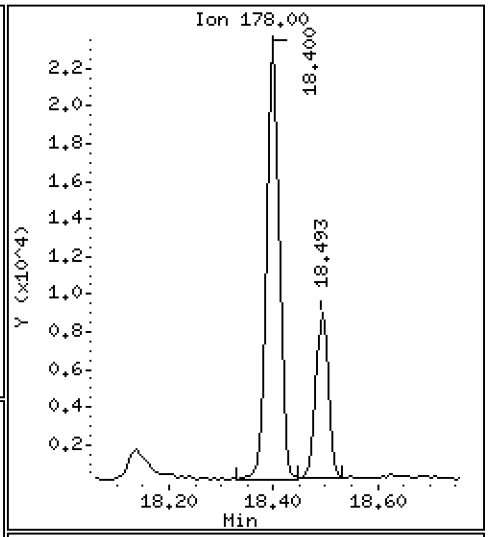
Concentration: 0.5558 ug/mL

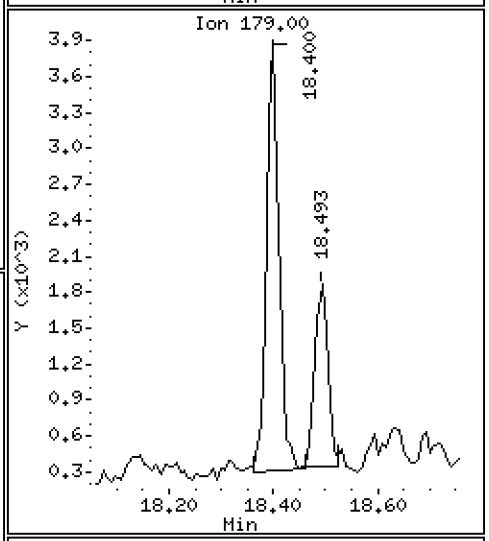


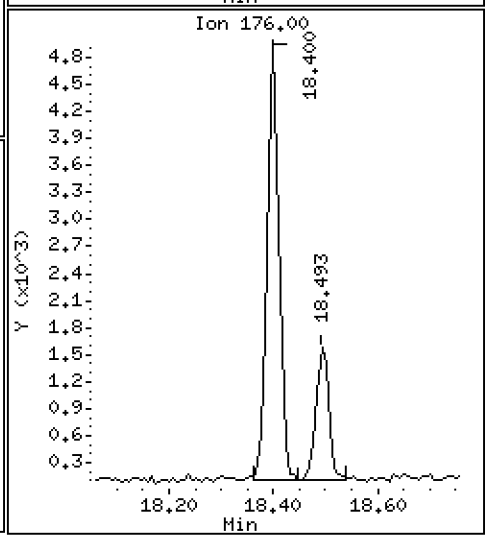












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Date : 01-JAN-2023 07:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-10

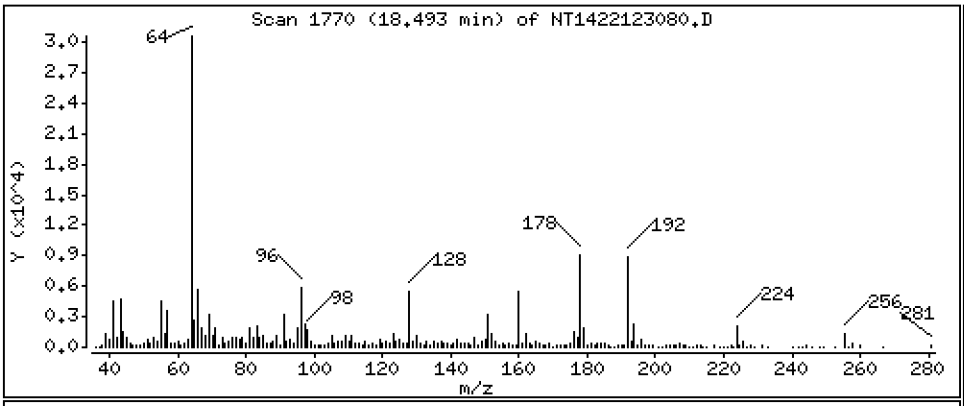
Operator: VTS

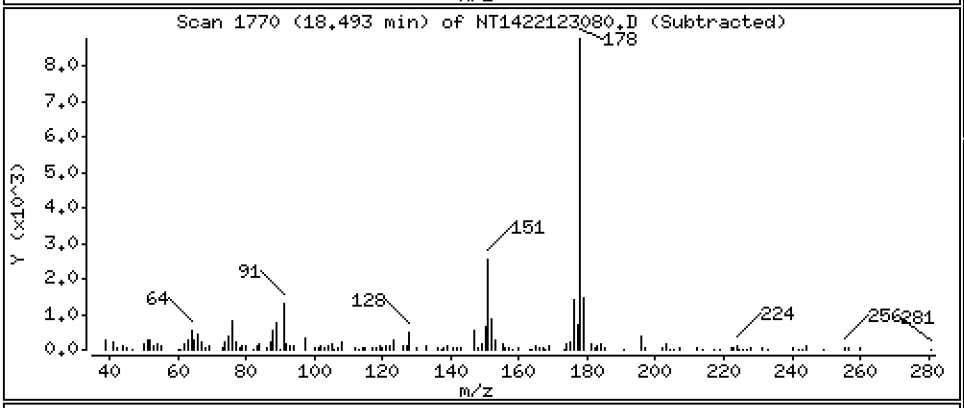
Column phase: ZB-5msi

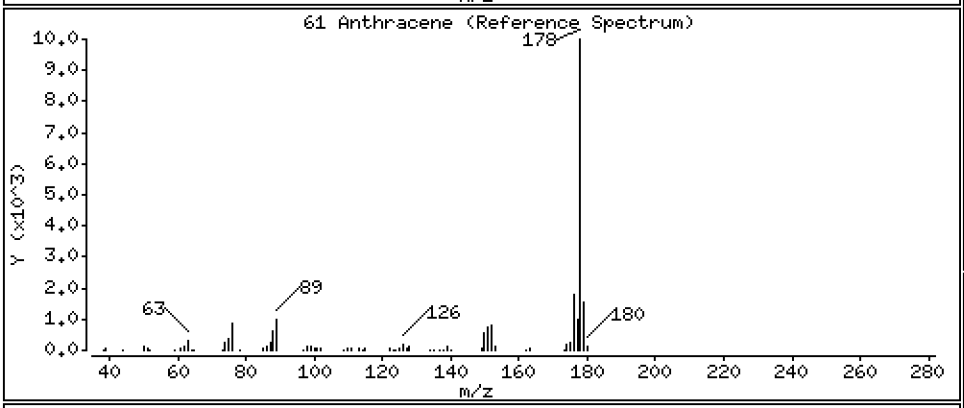
Column diameter: 0.25

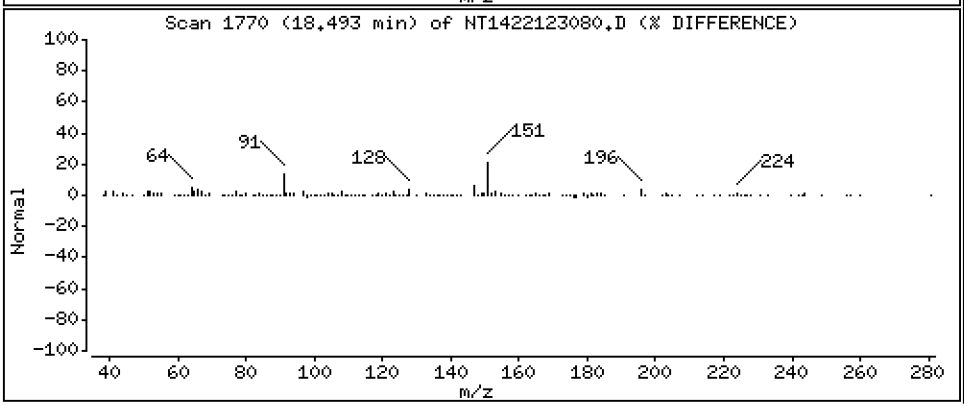
61 Anthracene

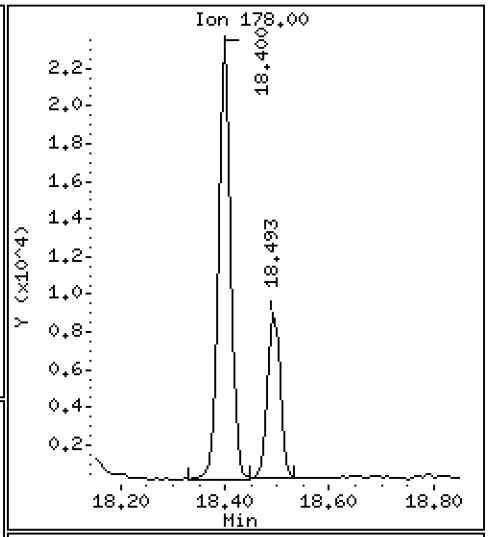
Concentration: 0.2141 ug/mL

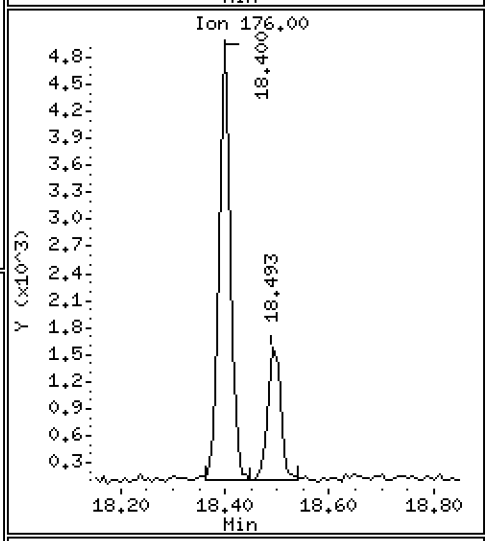


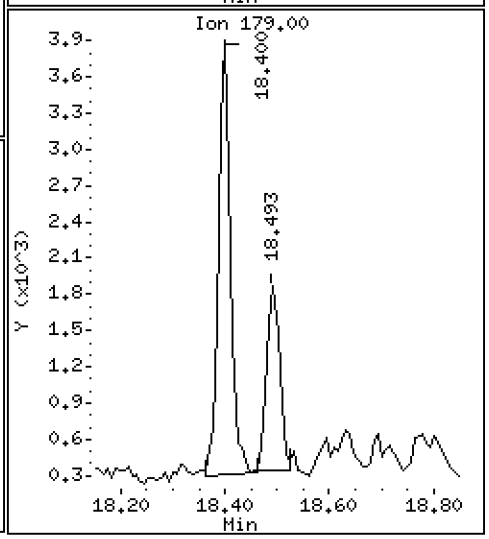












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Date : 01-JAN-2023 07:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-10

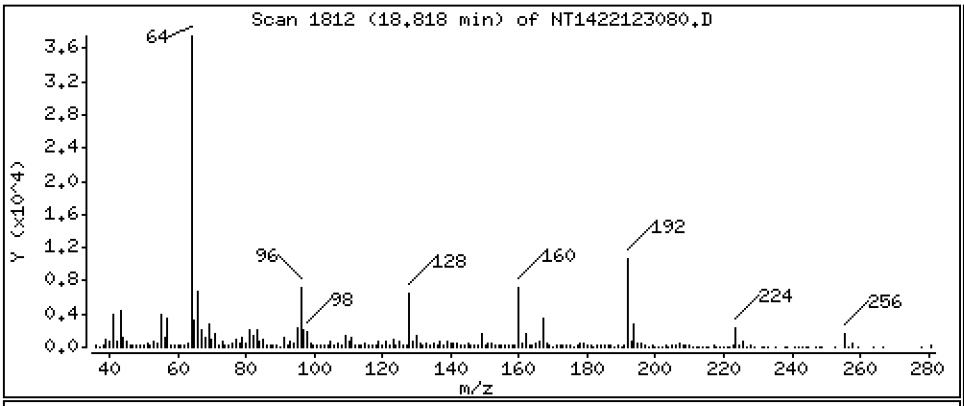
Operator: VTS

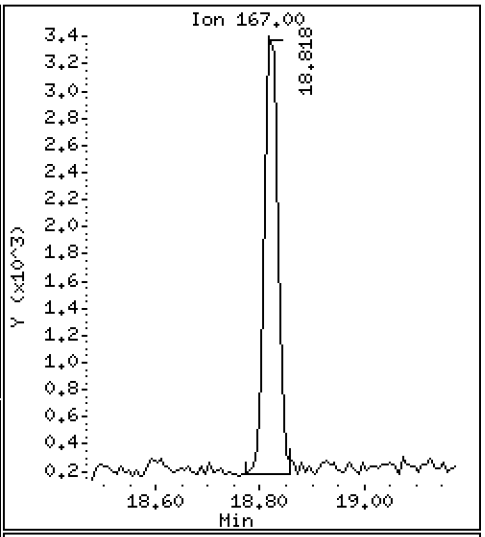
Column phase: ZB-5msi

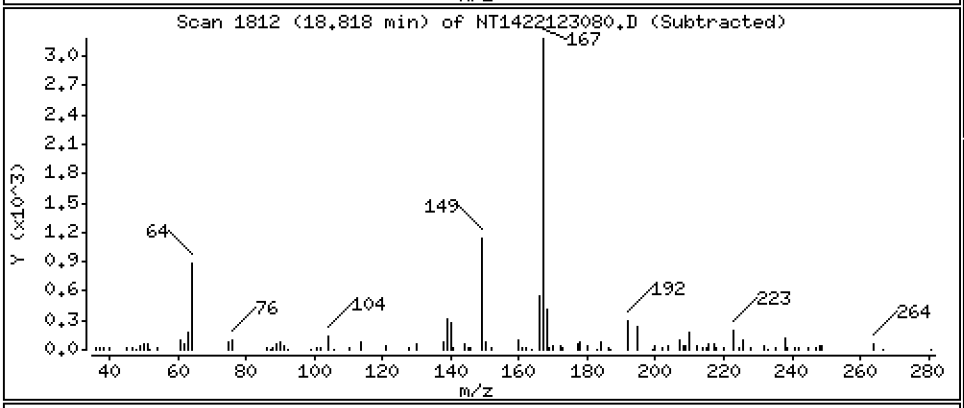
Column diameter: 0.25

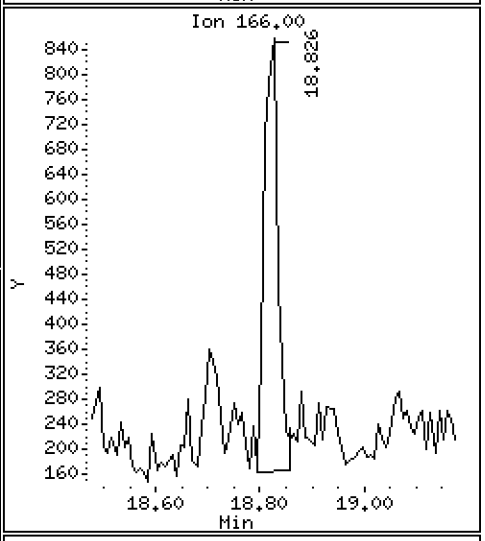
62 Carbazole

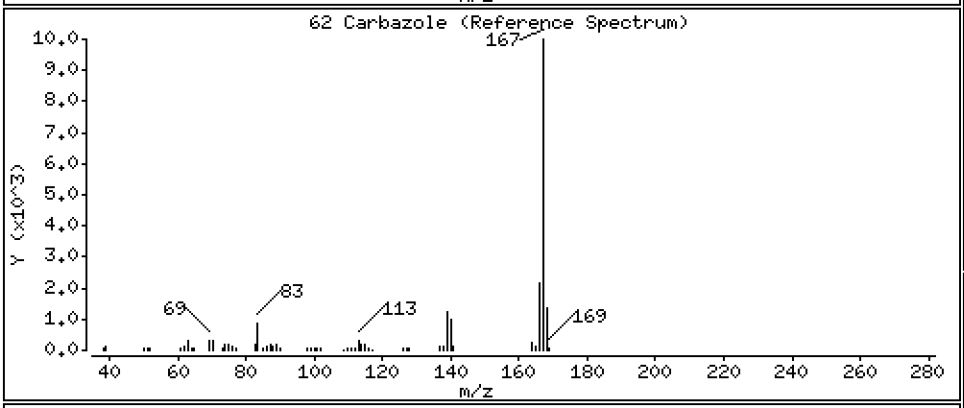
Concentration: 0.08840 ug/mL

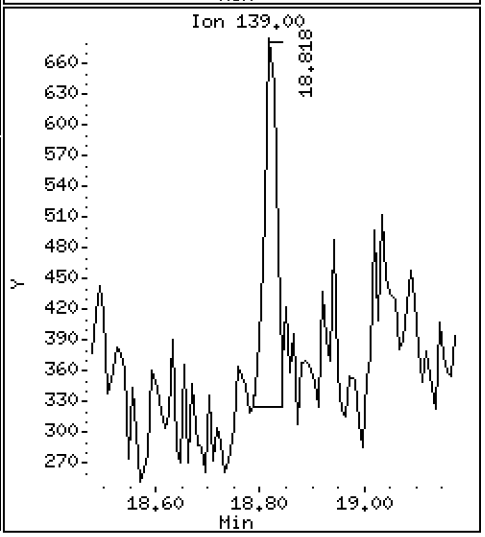


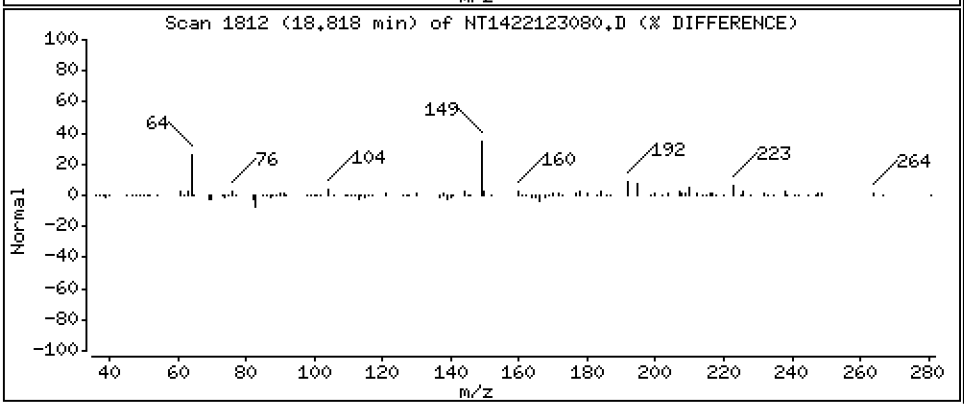












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123080.D

Date : 01-JAN-2023 07:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-10

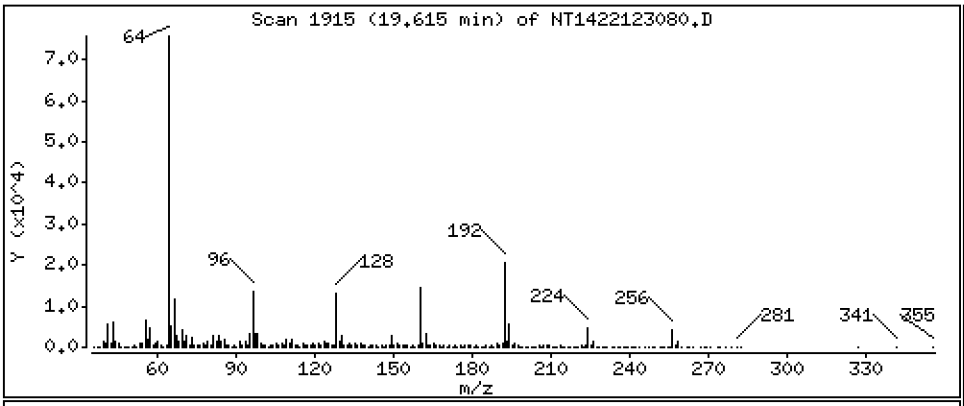
Operator: VTS

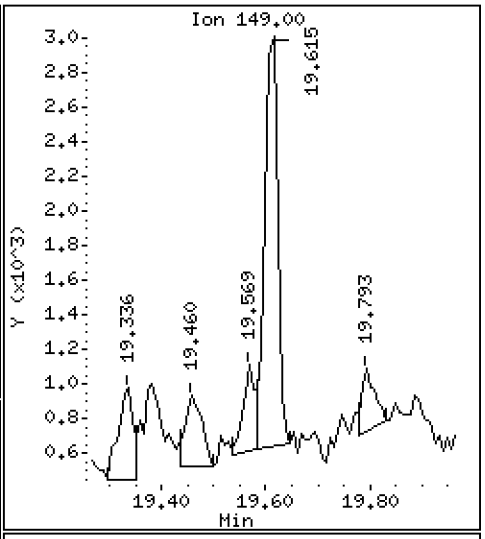
Column phase: ZB-5msi

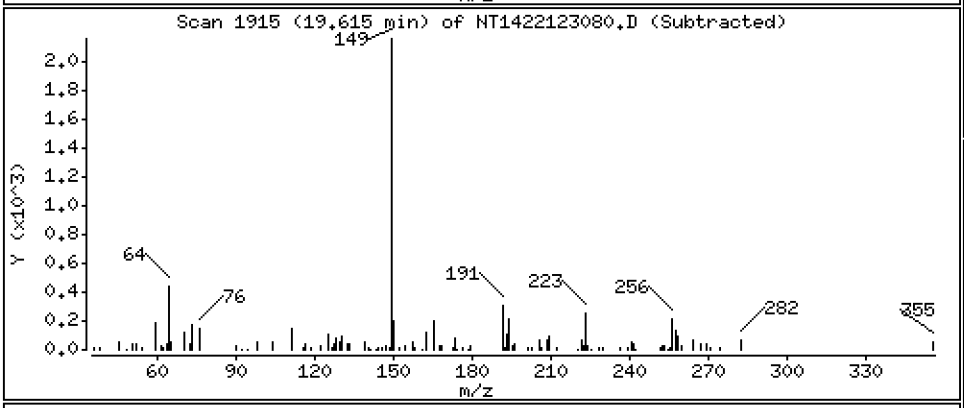
Column diameter: 0.25

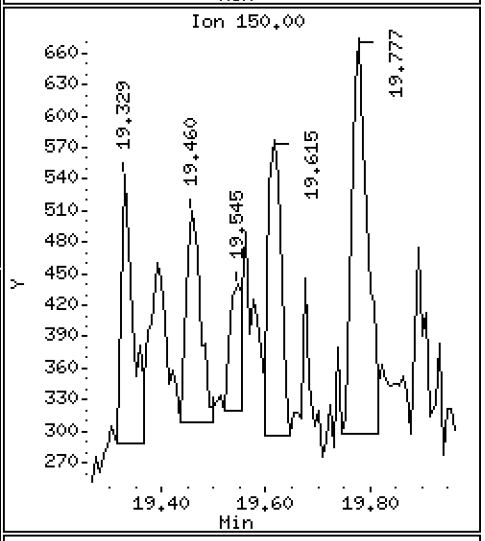
63 Di-n-butylphthalate

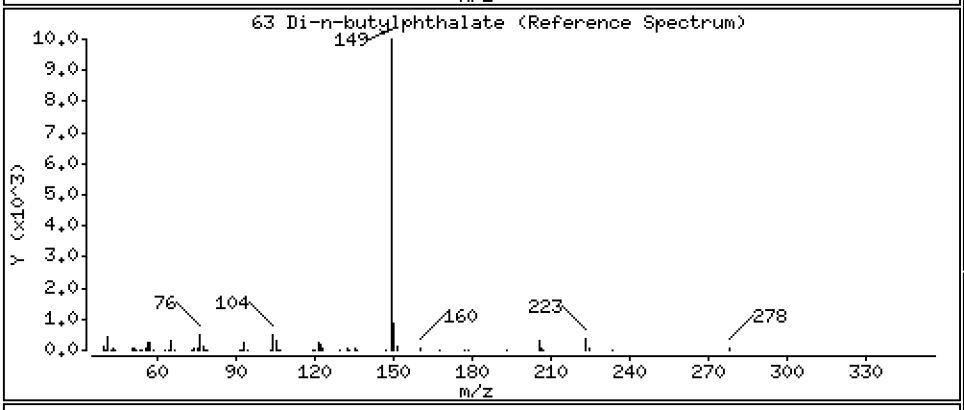
Concentration: 0.05524 ug/mL

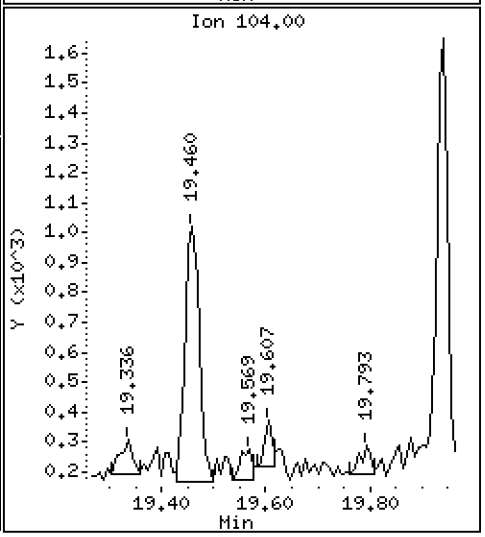


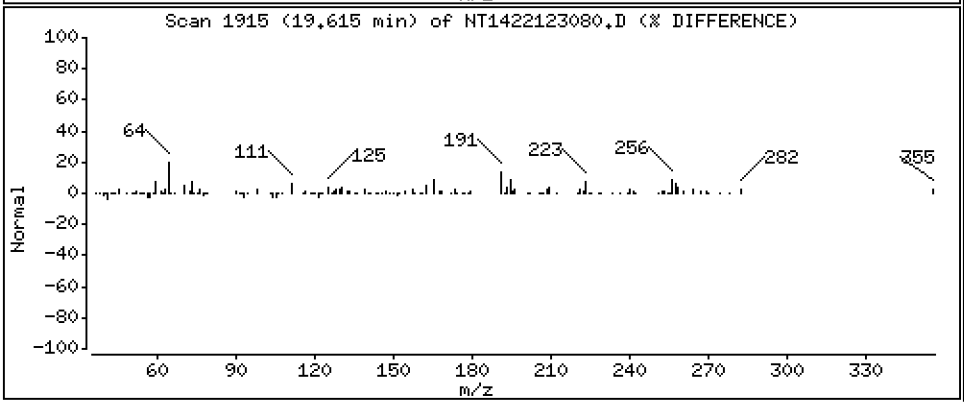












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Date : 01-JAN-2023 07:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-10

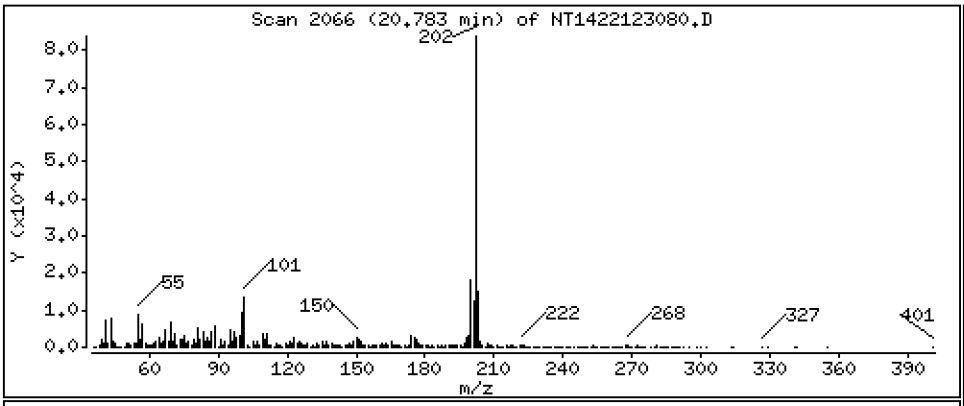
Operator: VTS

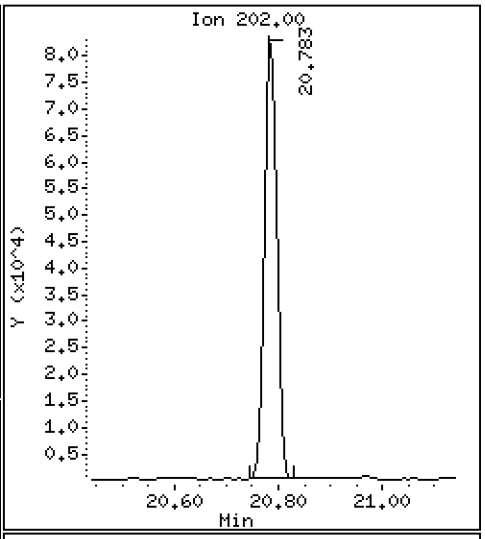
Column phase: ZB-5msi

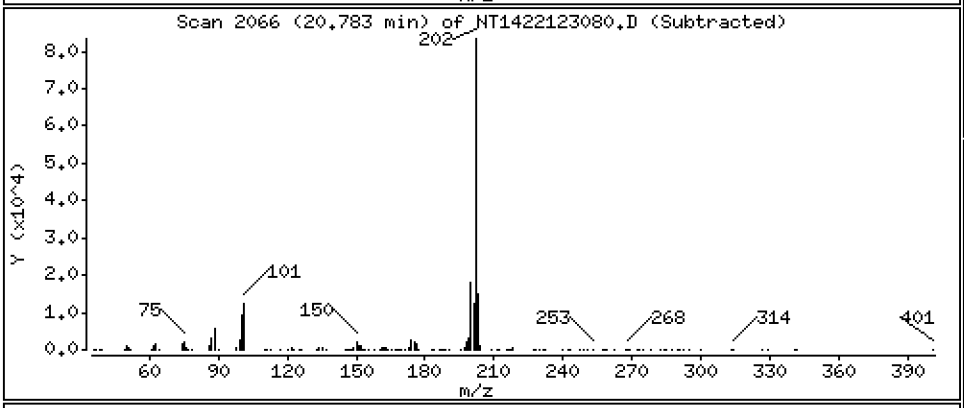
Column diameter: 0.25

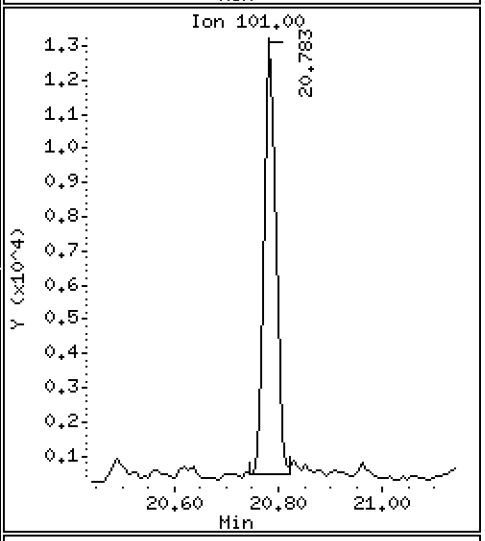
64 Fluoranthene

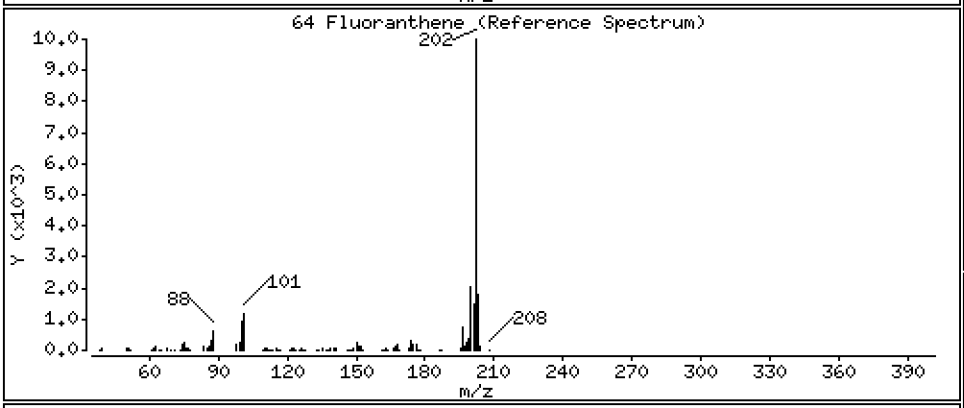
Concentration: 1.946 ug/mL

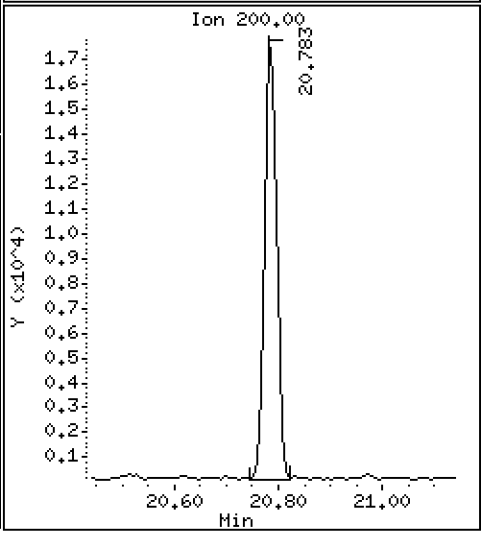


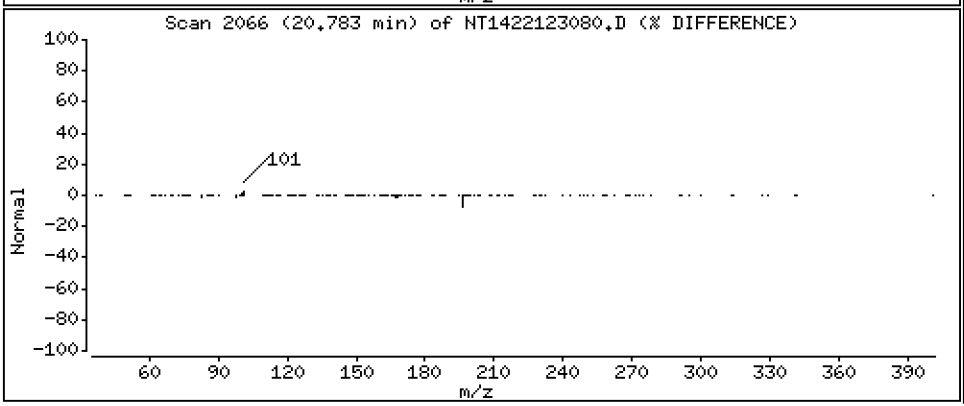












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123080.D

Date : 01-JAN-2023 07:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-10

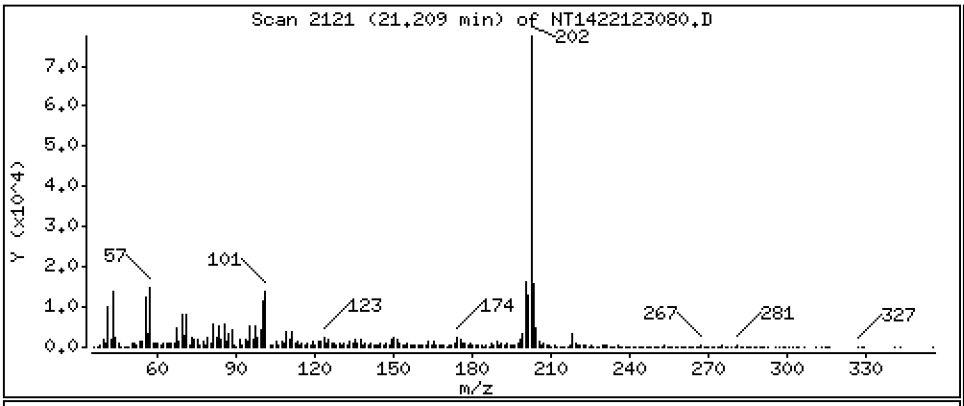
Operator: VTS

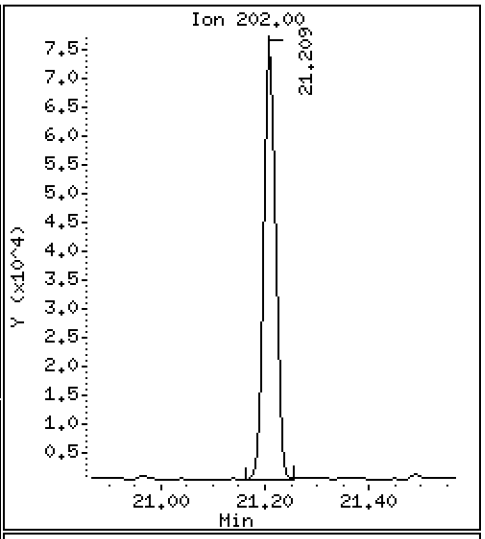
Column phase: ZB-5msi

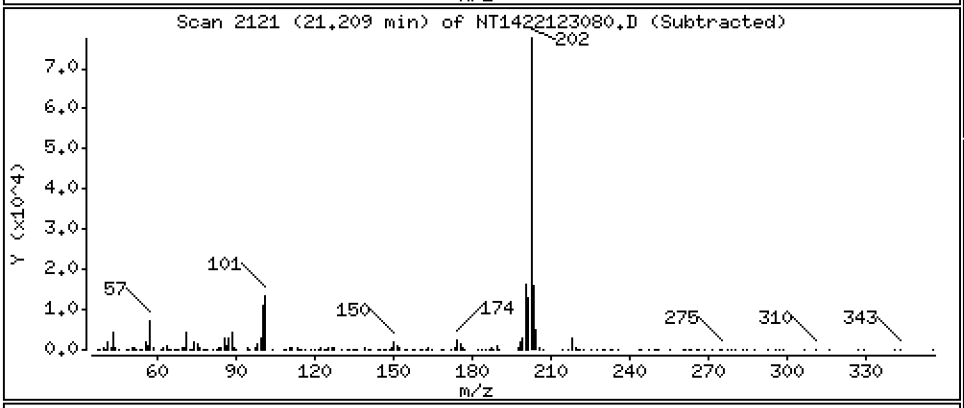
Column diameter: 0.25

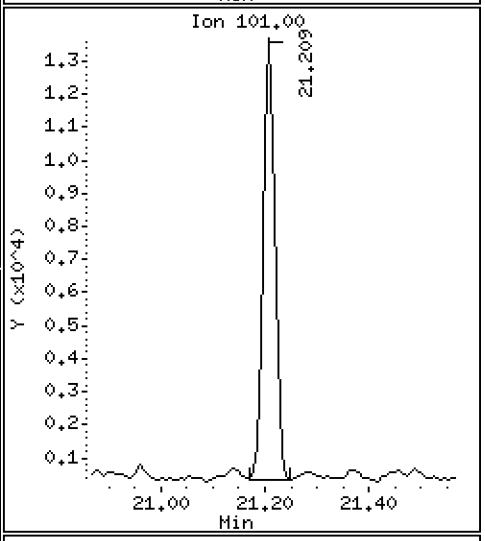
65 Pyrene

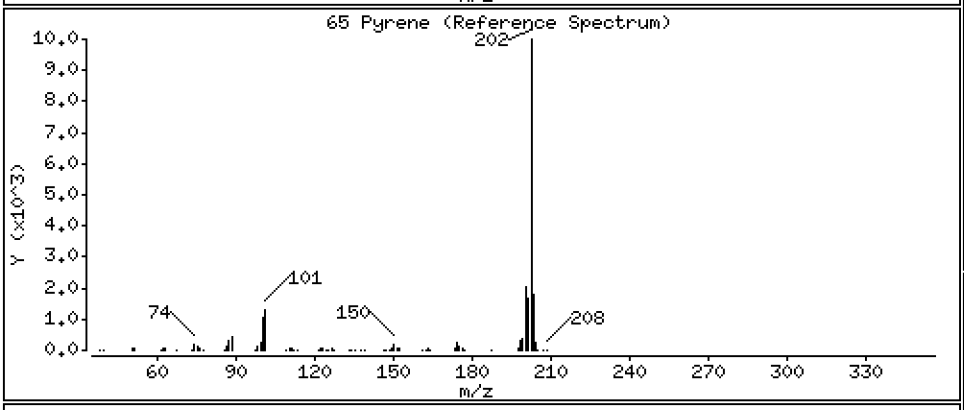
Concentration: 1.652 ug/mL

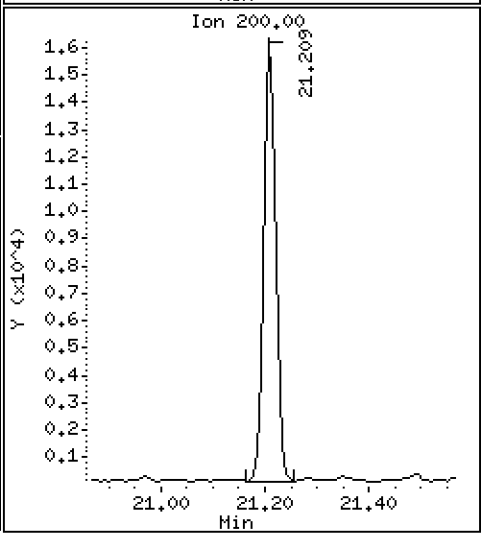


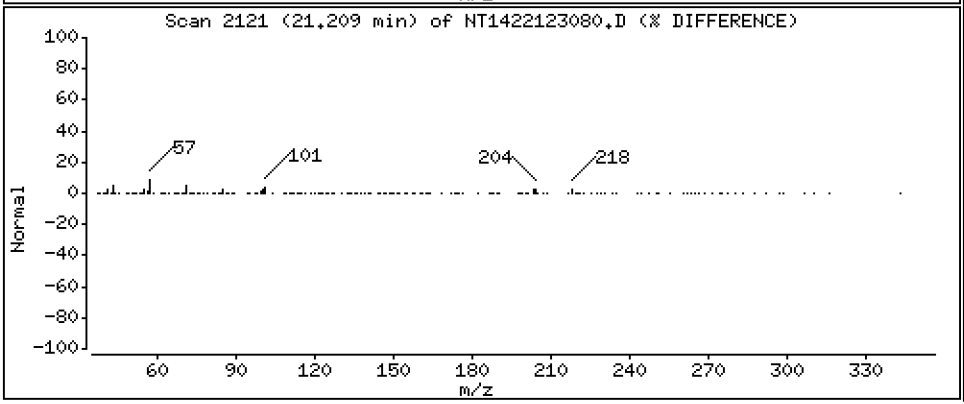












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Date : 01-JAN-2023 07:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-10

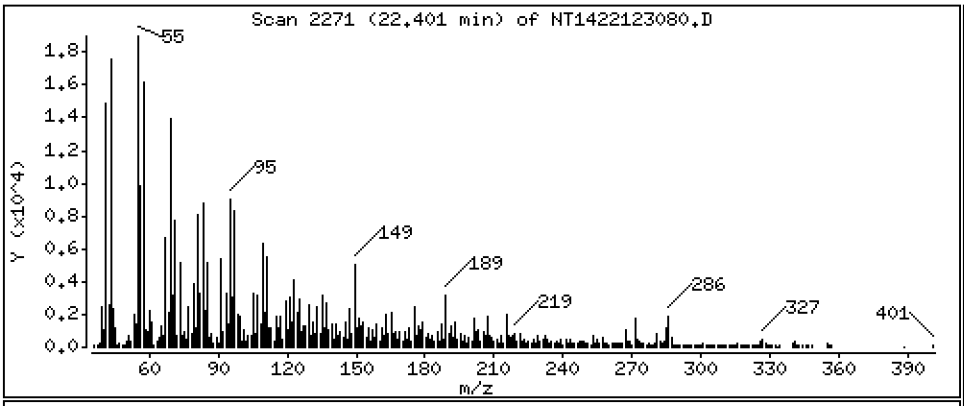
Operator: VTS

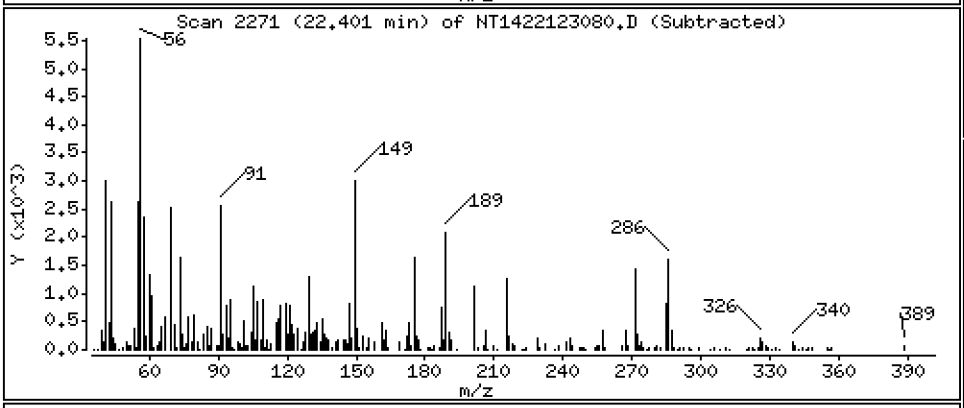
Column phase: ZB-5msi

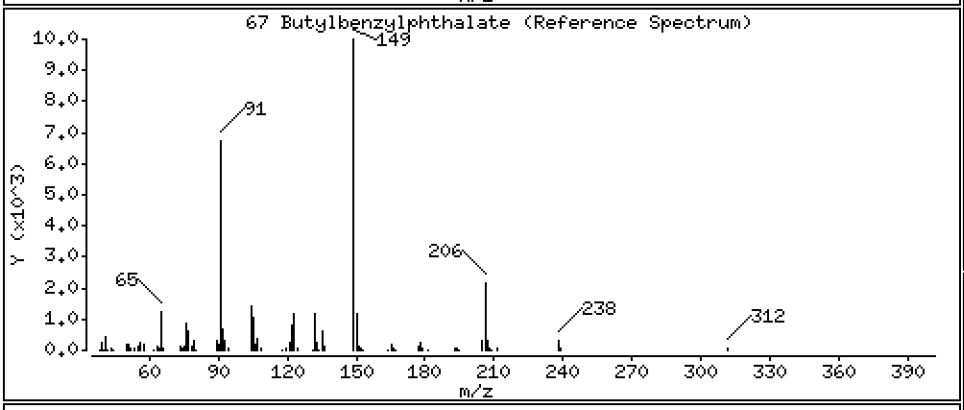
Column diameter: 0.25

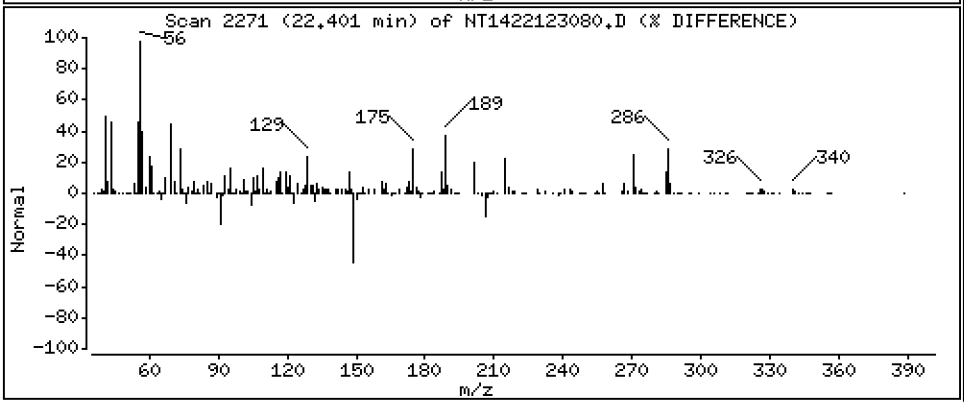
67 Butylbenzylphthalate

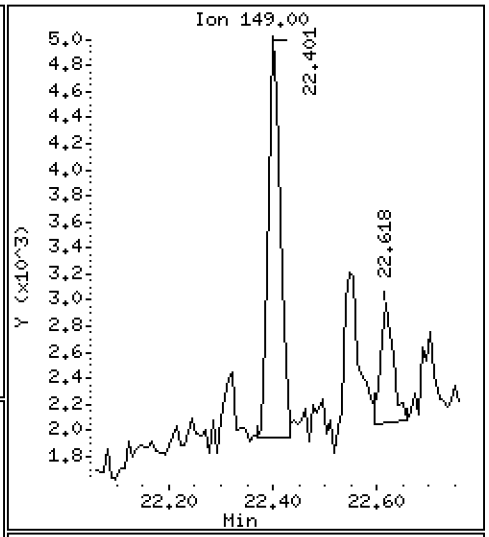
Concentration: 0.1794 ug/mL

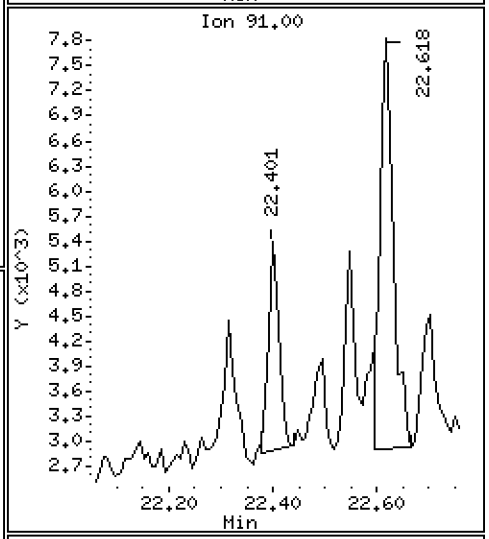


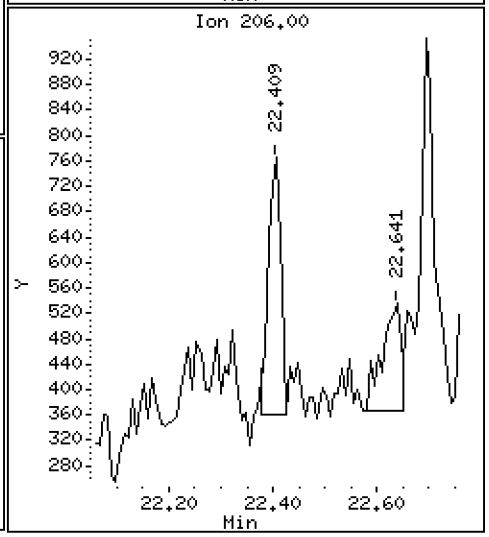












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Date : 01-JAN-2023 07:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-10

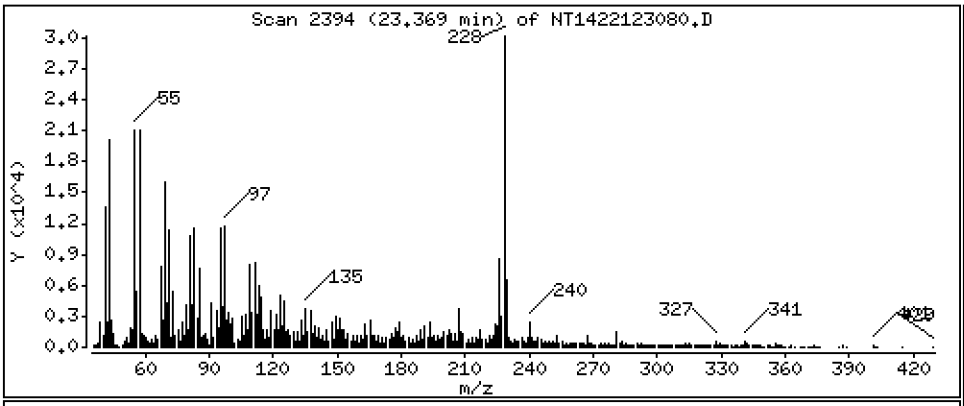
Operator: VTS

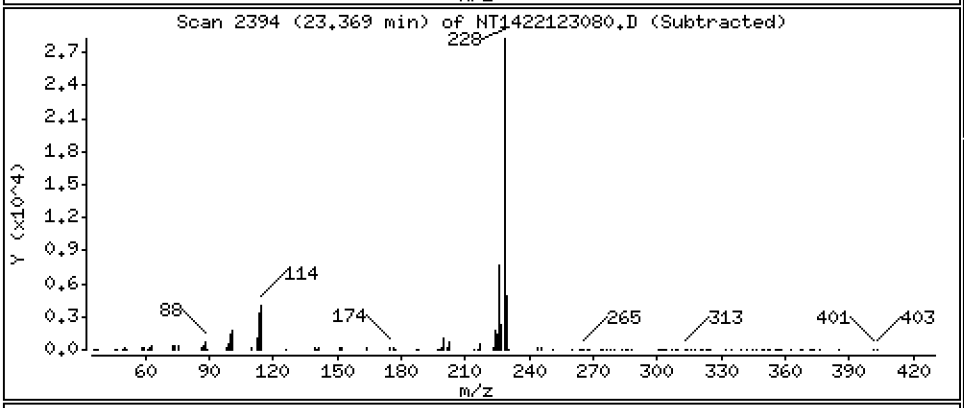
Column phase: ZB-5msi

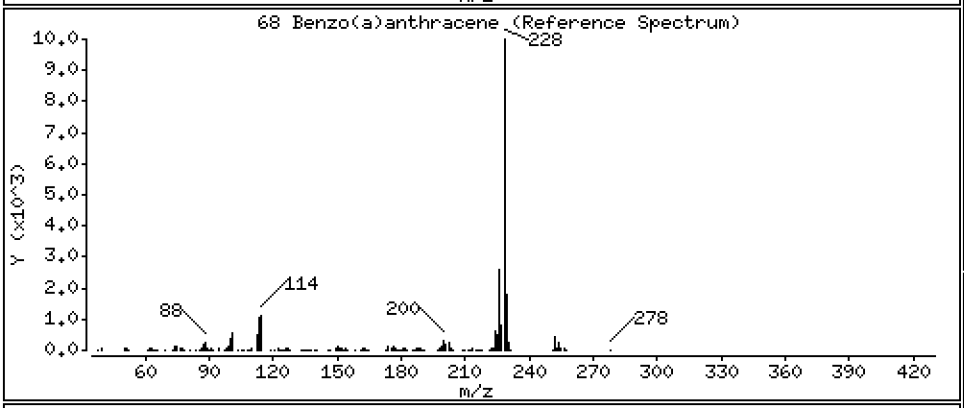
Column diameter: 0.25

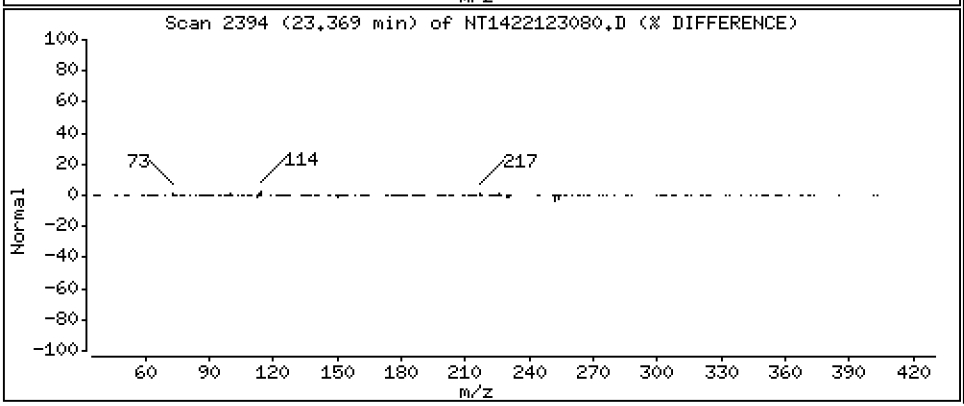
68 Benzo(a)anthracene

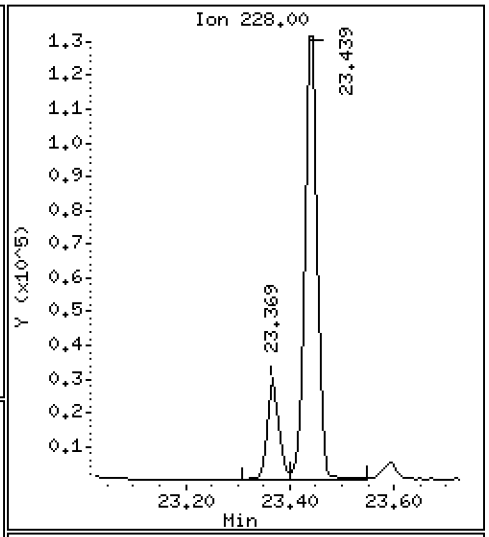
Concentration: 0.7027 ug/mL

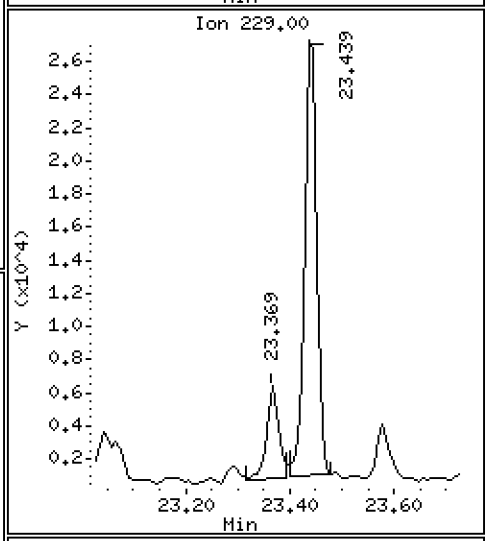


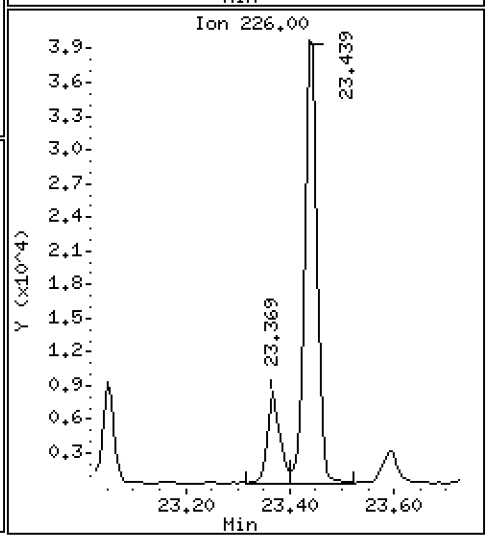












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Date : 01-JAN-2023 07:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-10

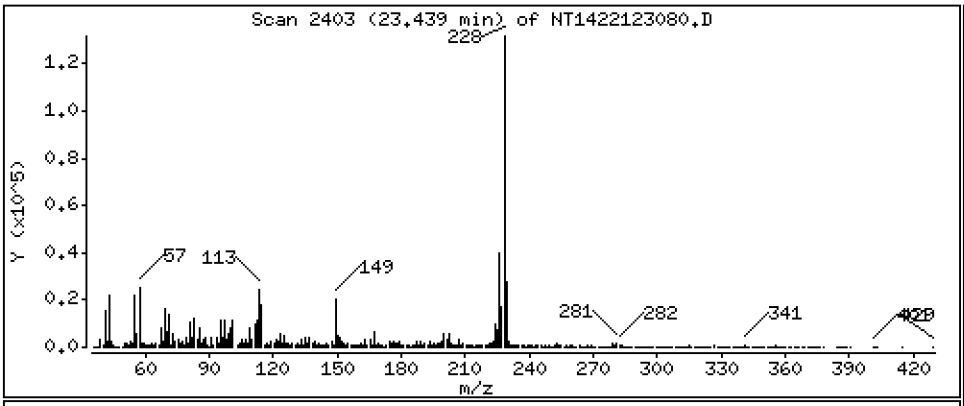
Operator: VTS

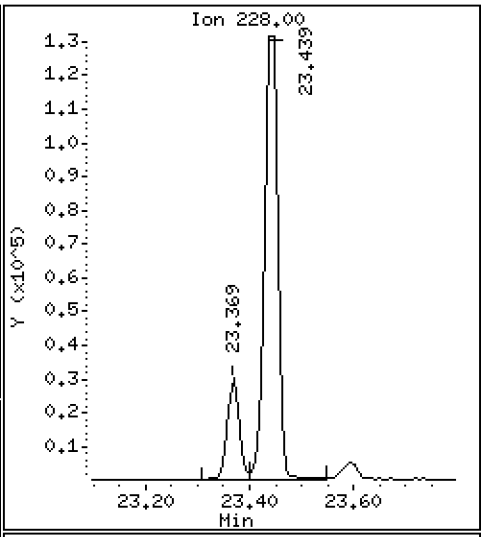
Column phase: ZB-5msi

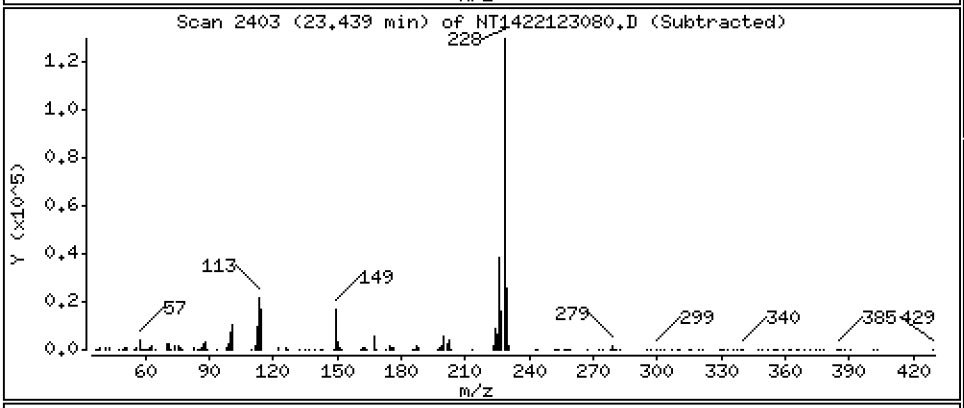
Column diameter: 0.25

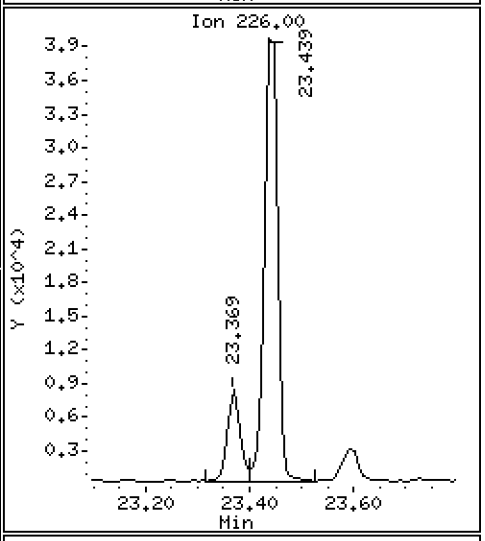
71 Chrysene

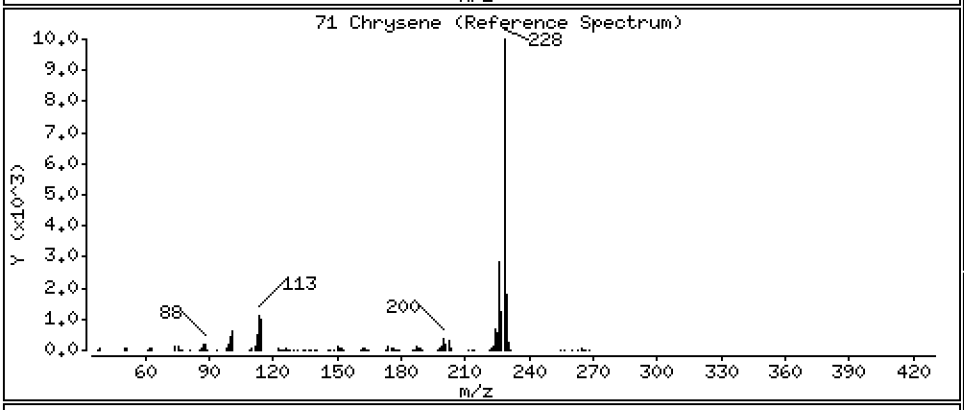
Concentration: 3.668 ug/mL

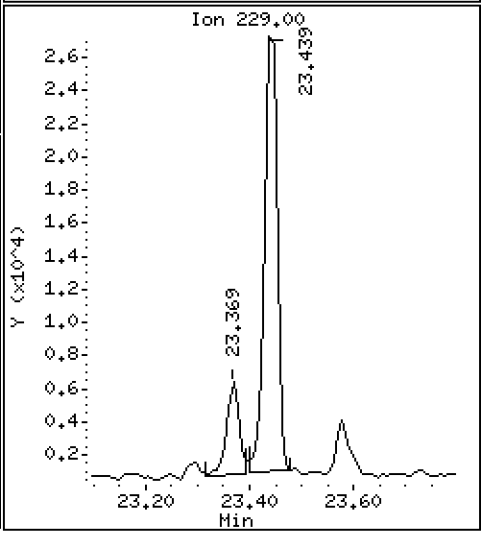


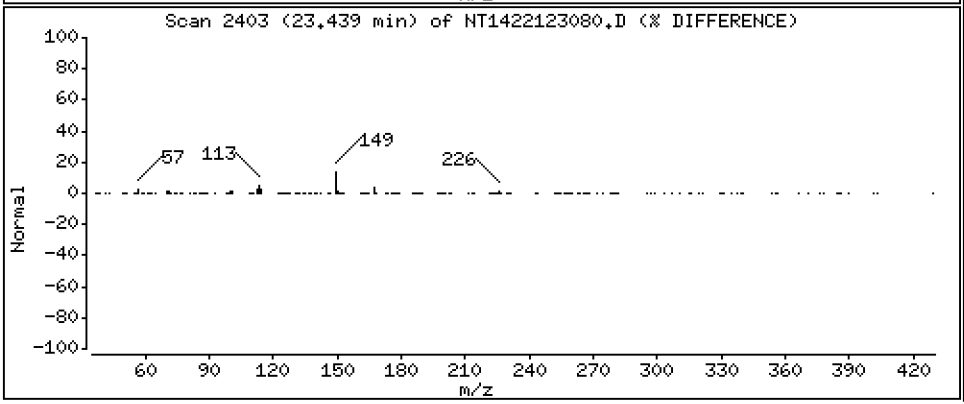












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Date : 01-JAN-2023 07:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-10

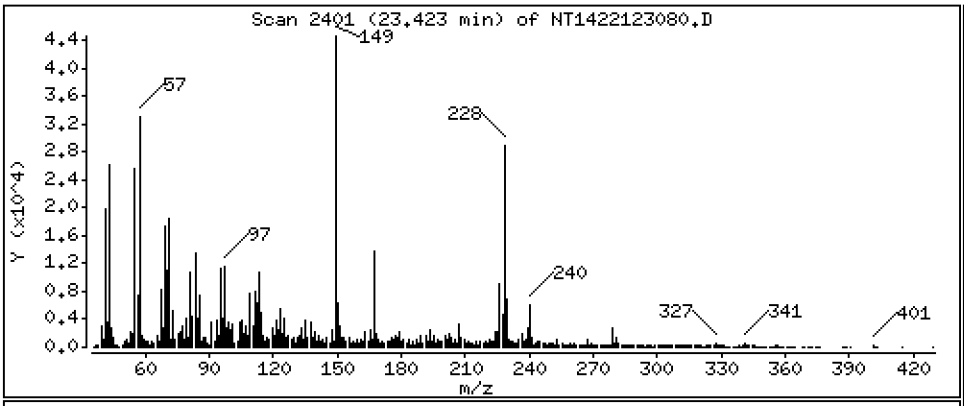
Operator: VTS

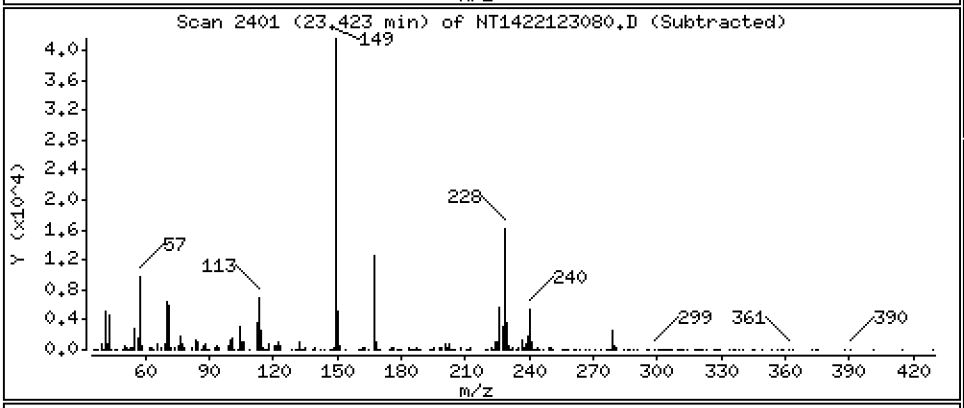
Column phase: ZB-5msi

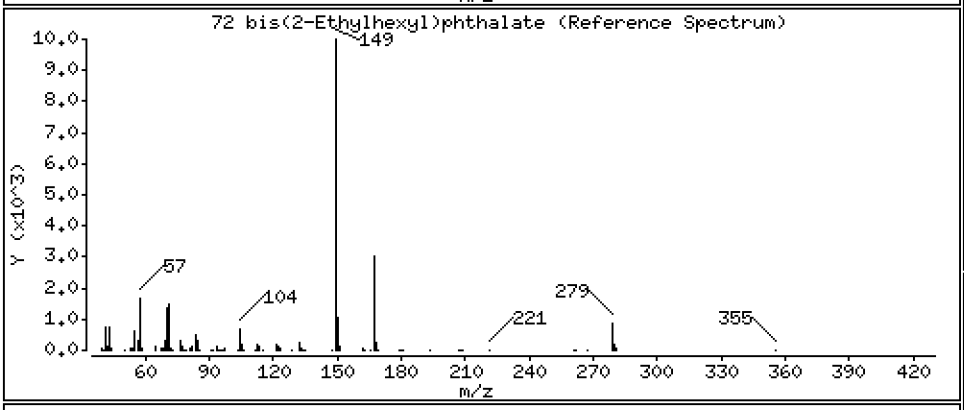
Column diameter: 0.25

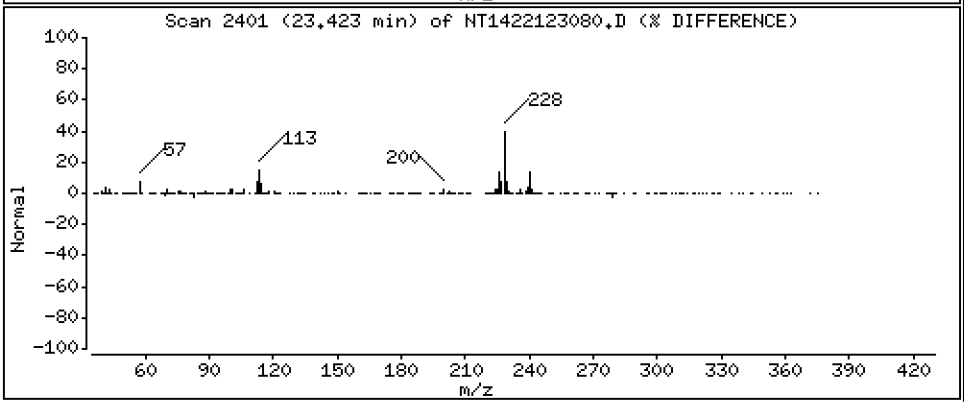
72 bis(2-Ethylhexyl)phthalate

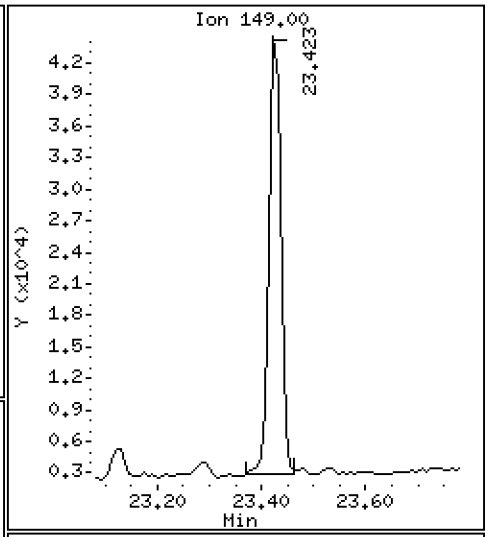
Concentration: 1.502 ug/mL

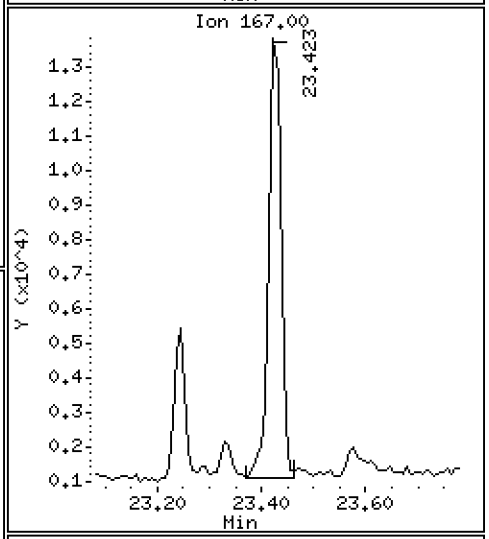


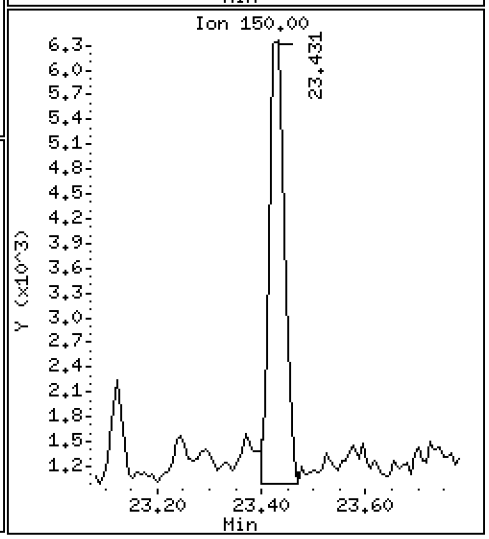












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Date : 01-JAN-2023 07:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-10

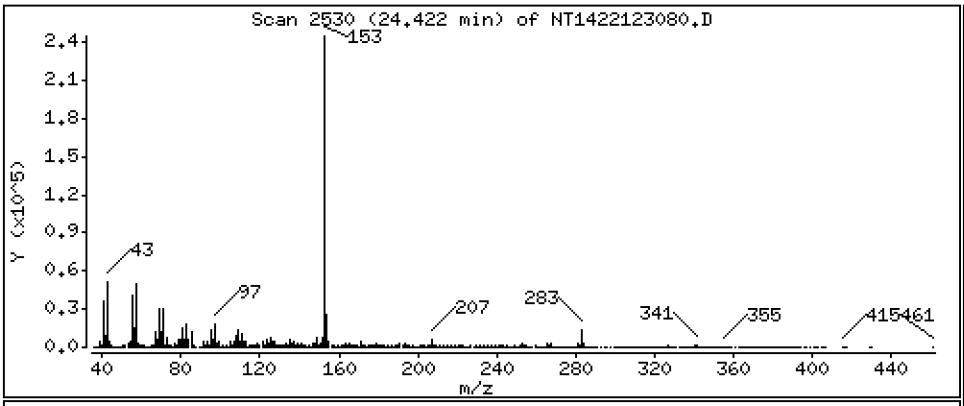
Operator: VTS

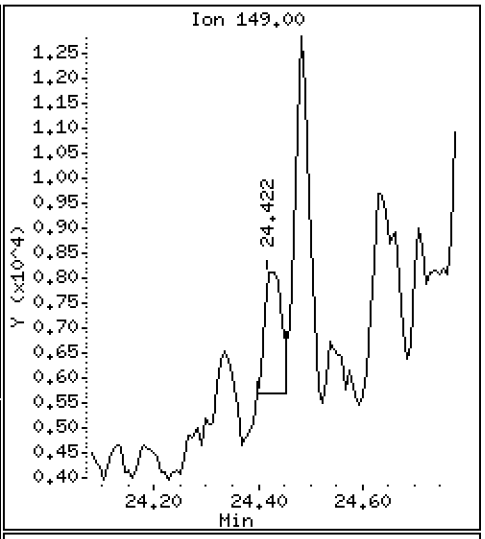
Column phase: ZB-5msi

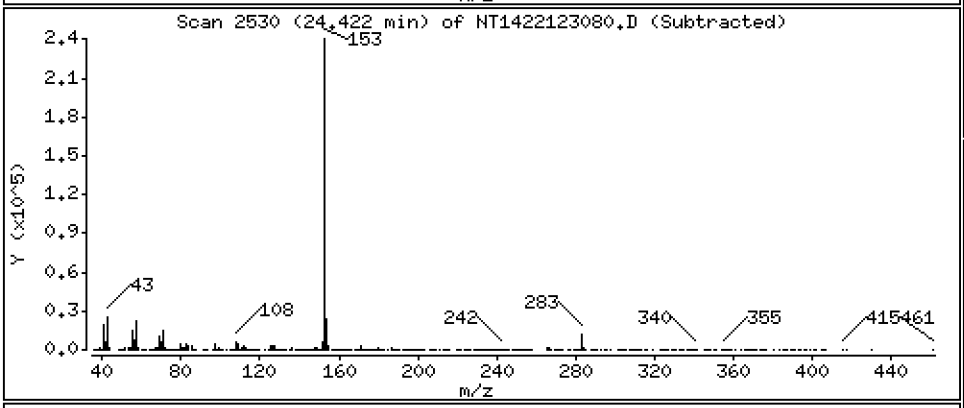
Column diameter: 0.25

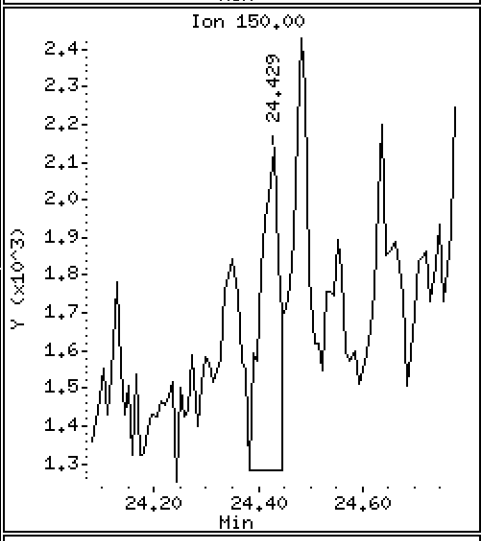
73 Di-n-octylphthalate

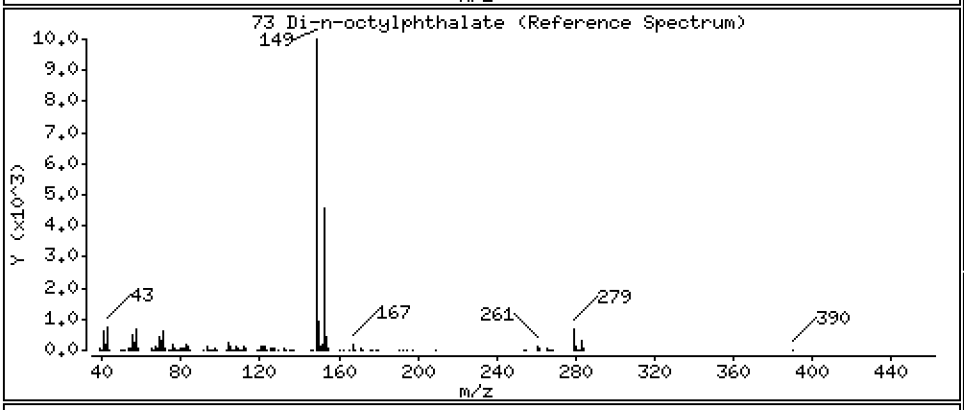
Concentration: 0.05932 ug/mL

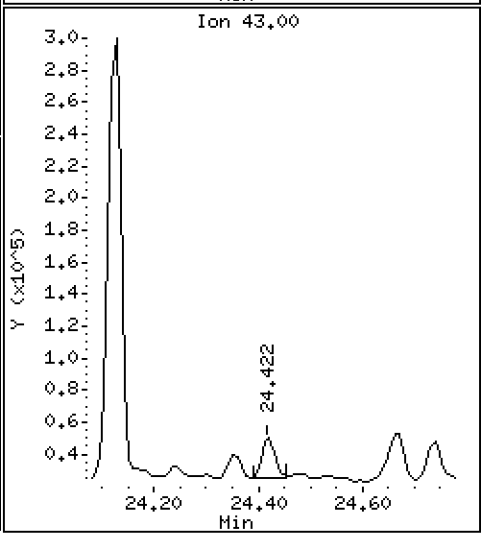


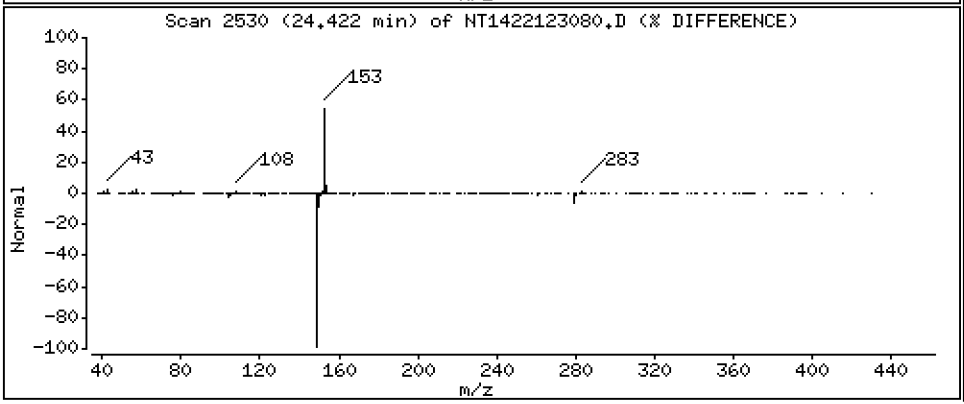












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Date : 01-JAN-2023 07:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-10

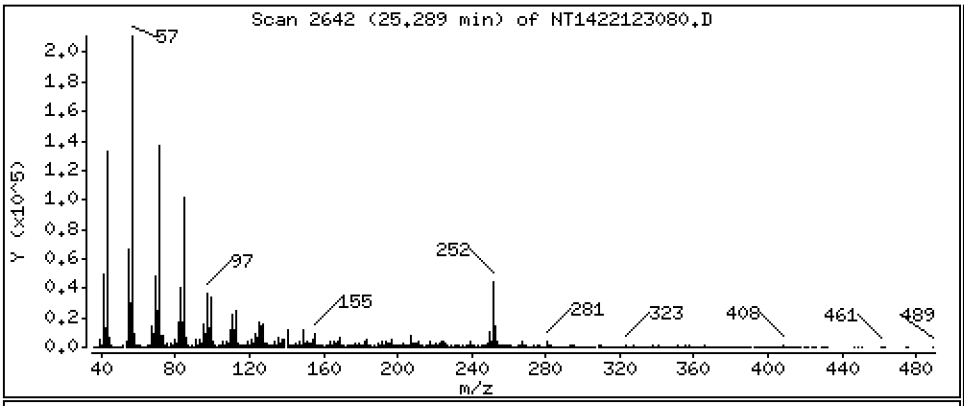
Operator: VTS

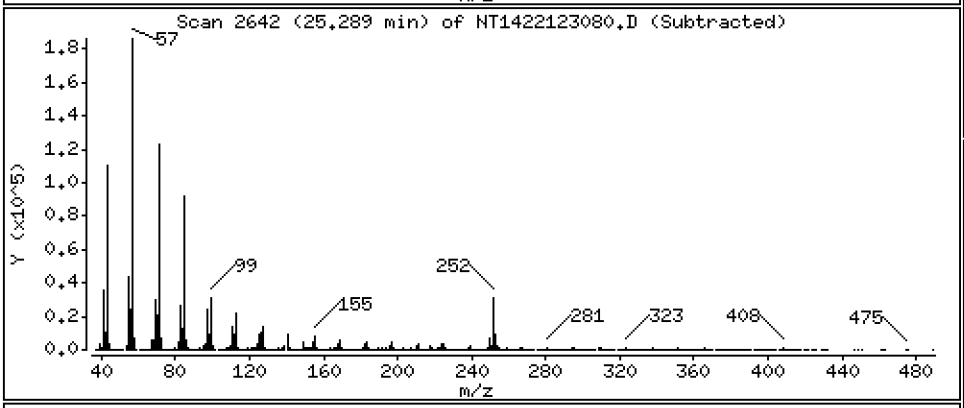
Column phase: ZB-5msi

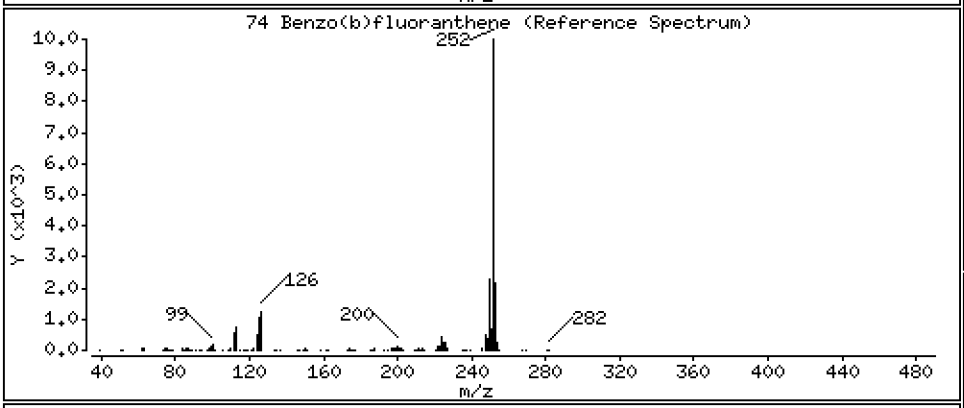
Column diameter: 0.25

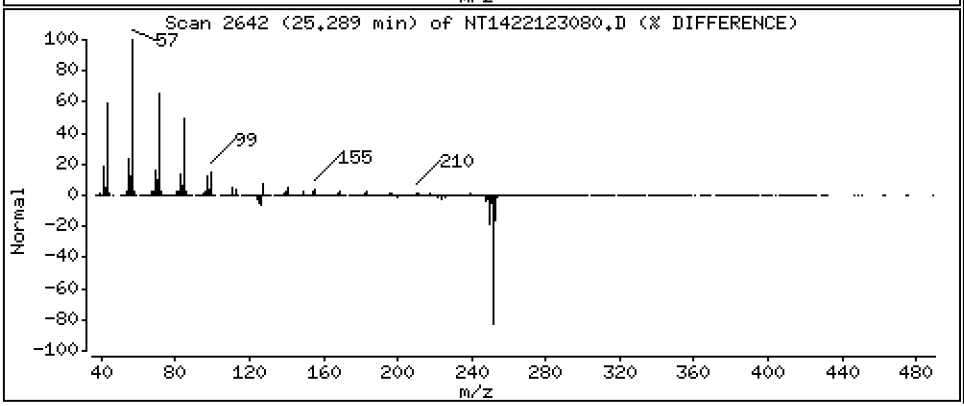
74 Benzo(b)fluoranthene

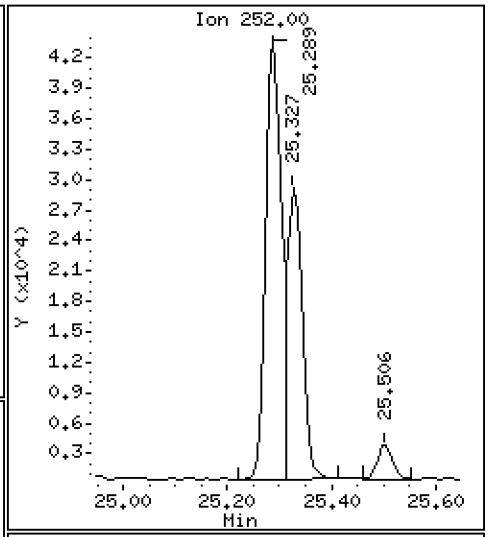
Concentration: 1.487 ug/mL

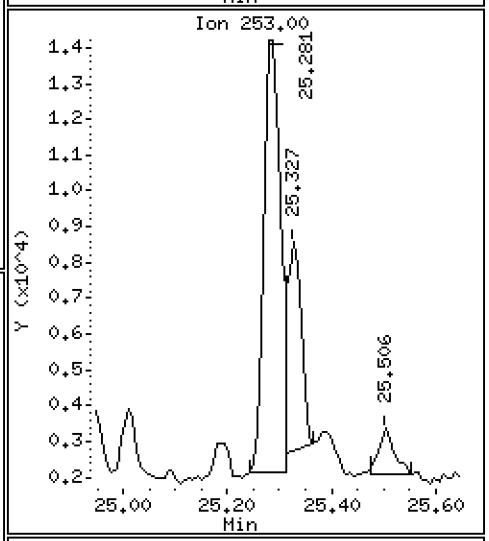


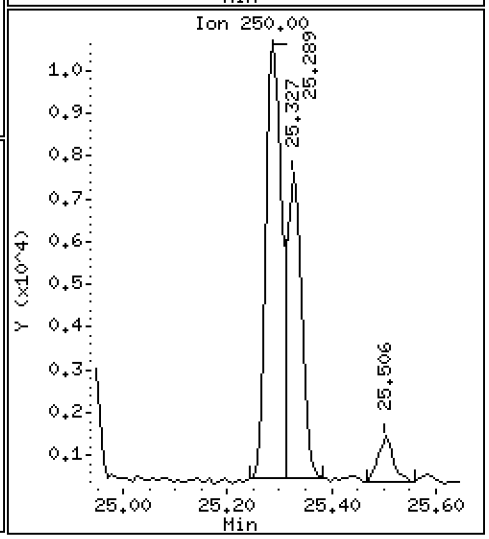












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Date : 01-JAN-2023 07:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-10

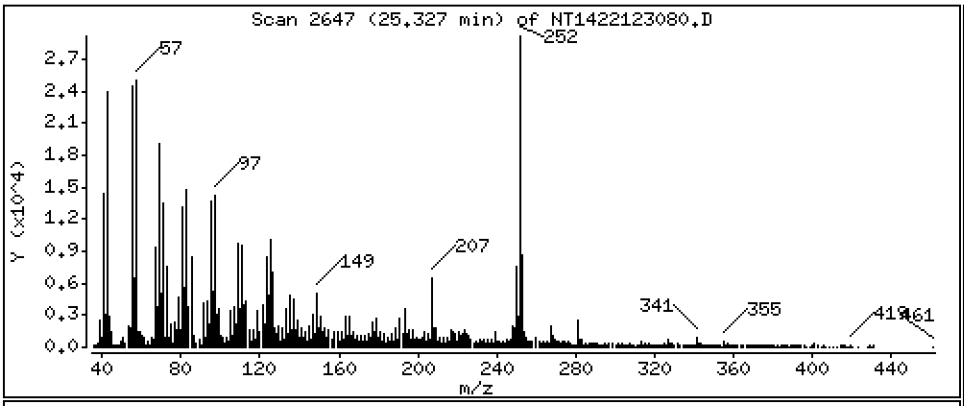
Operator: VTS

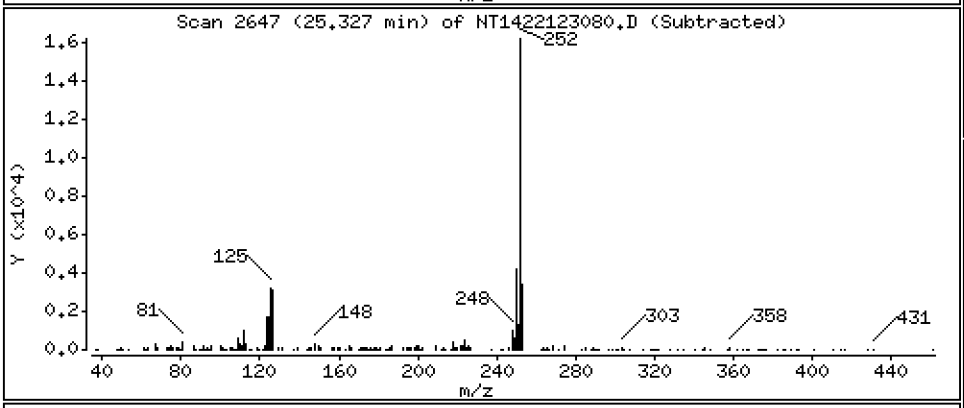
Column phase: ZB-5msi

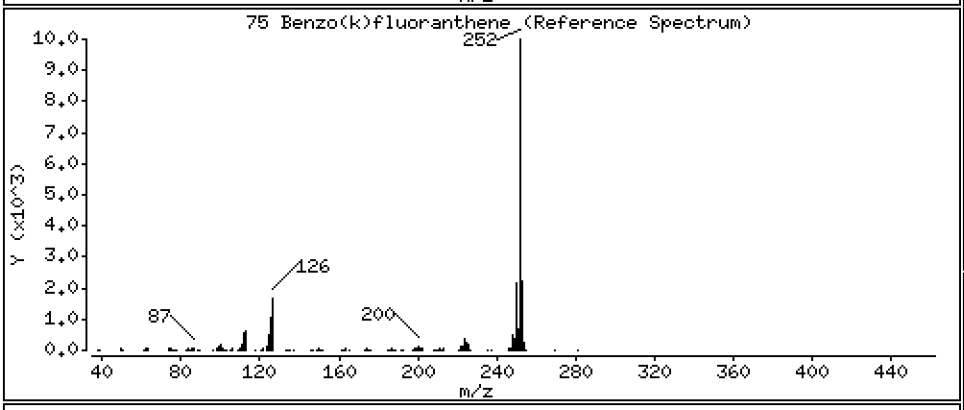
Column diameter: 0.25

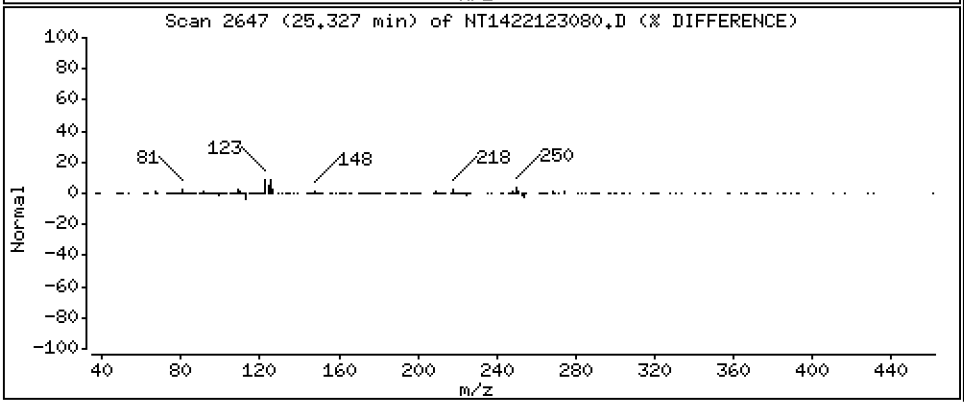
75 Benzo(k)fluoranthene

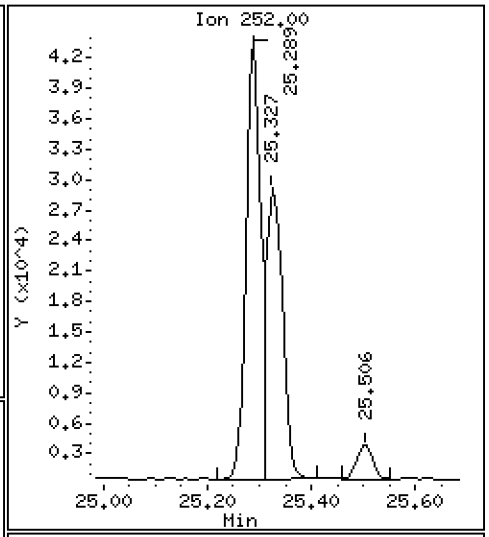
Concentration: 1.012 ug/mL

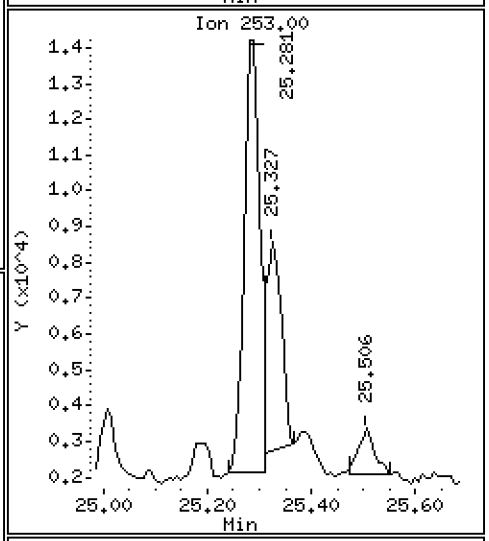


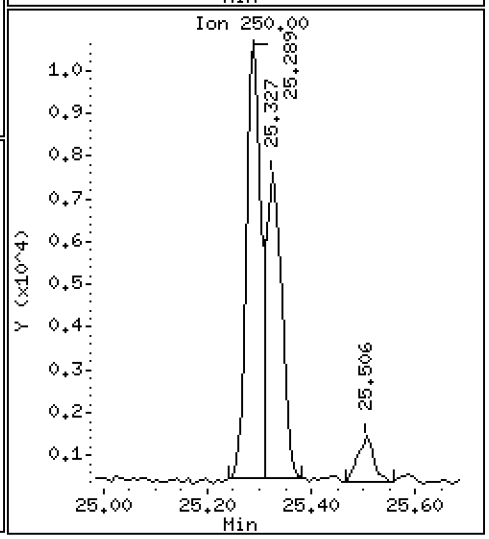












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Date : 01-JAN-2023 07:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-10

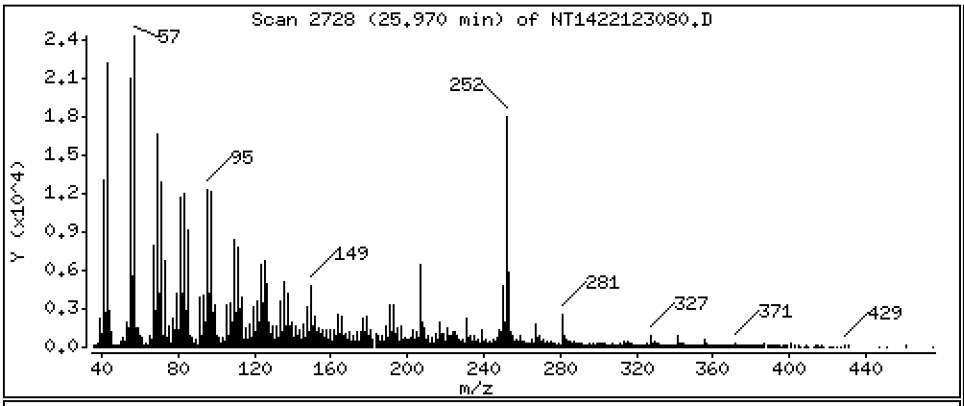
Operator: VTS

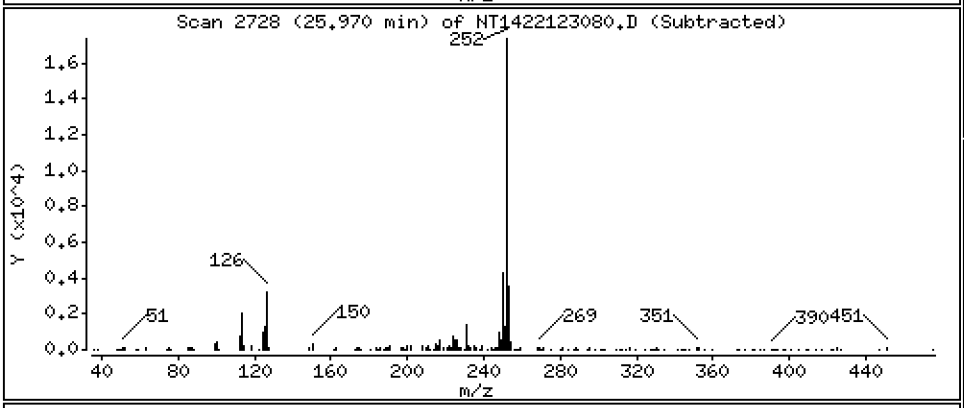
Column phase: ZB-5msi

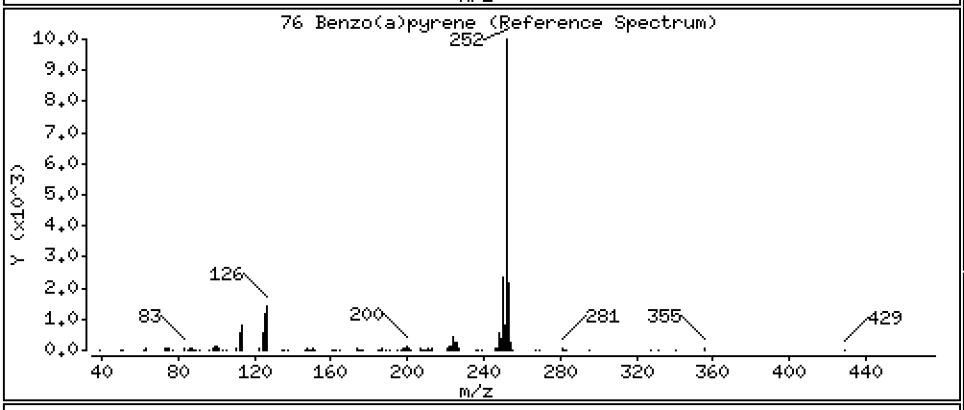
Column diameter: 0.25

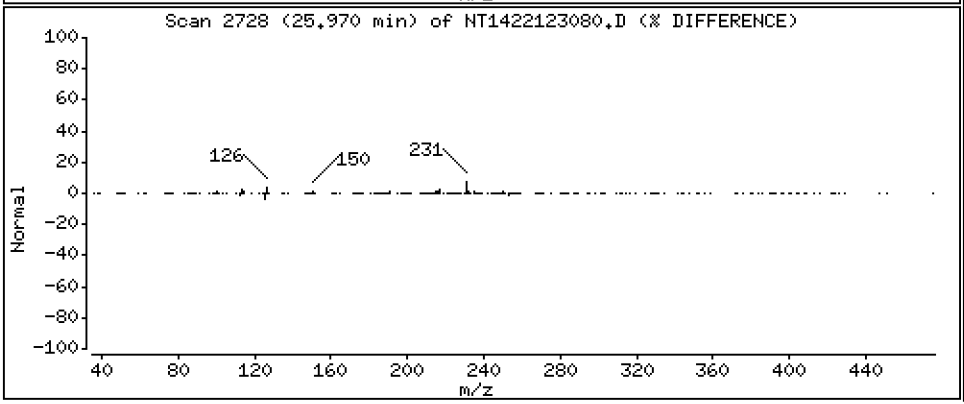
76 Benzo(a)pyrene

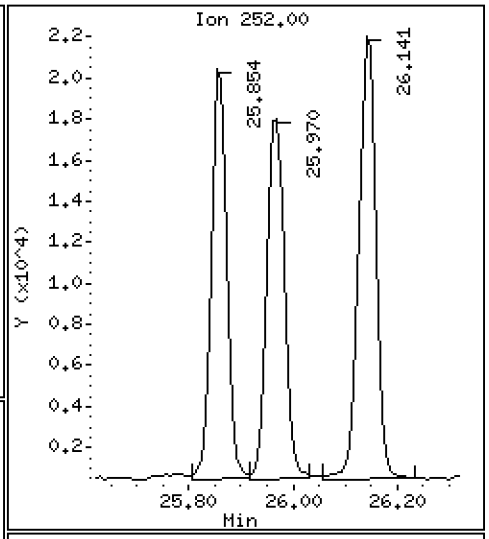
Concentration: 0.8034 ug/mL

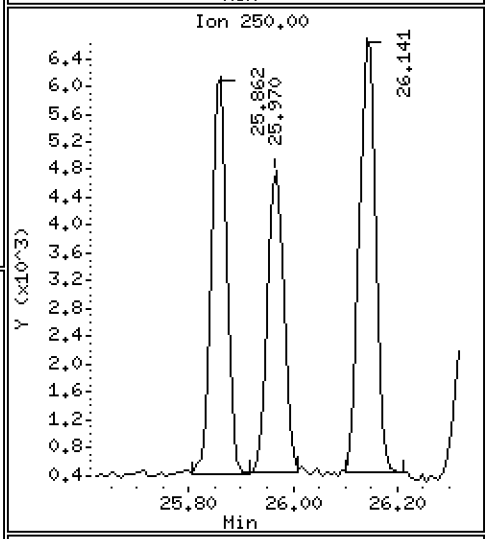


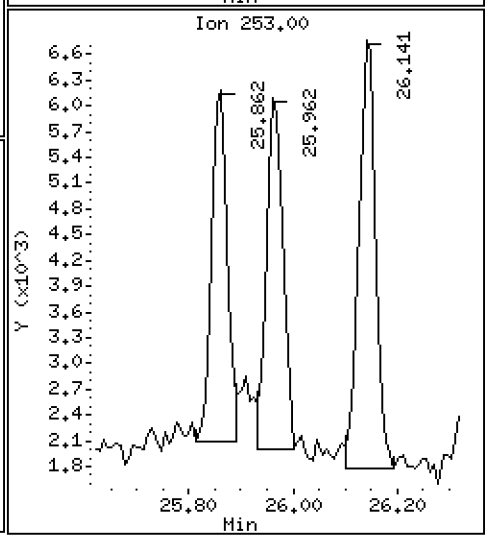












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Date : 01-JAN-2023 07:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-10

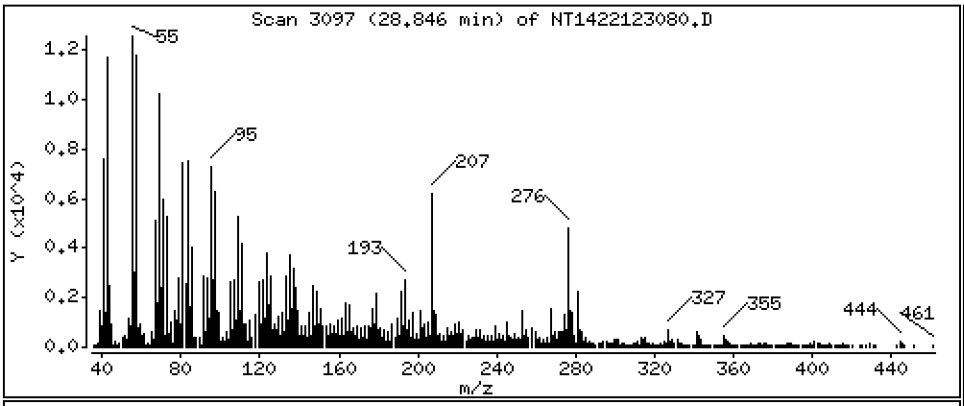
Operator: VTS

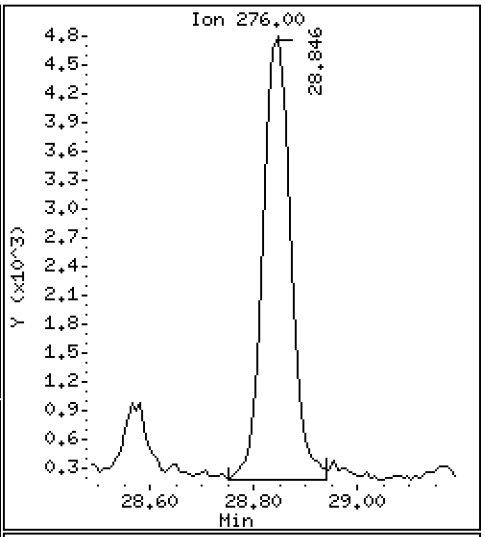
Column phase: ZB-5msi

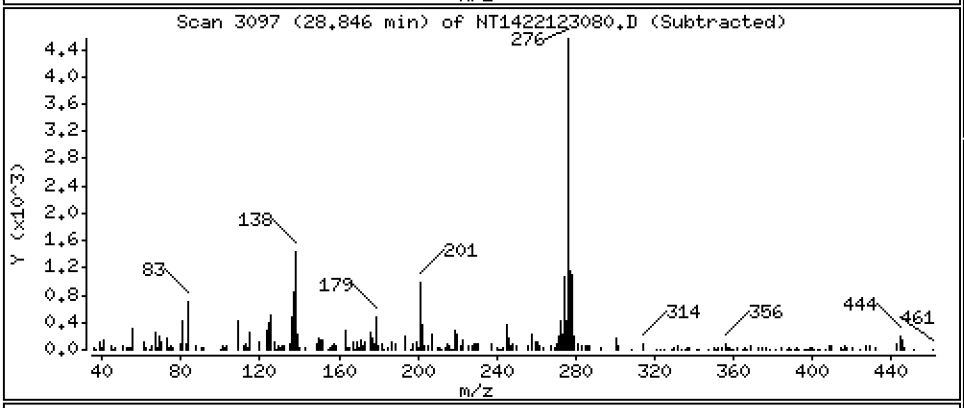
Column diameter: 0.25

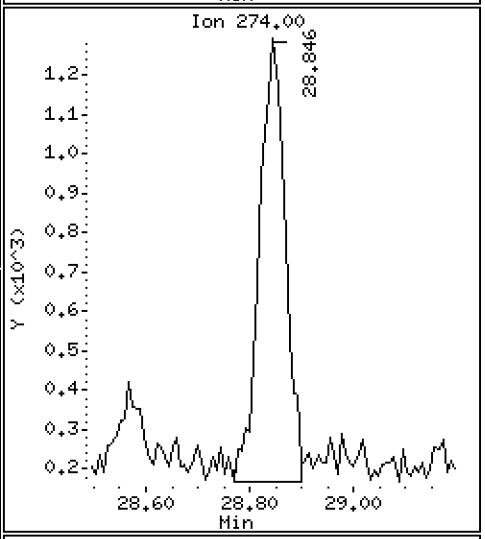
78 Indeno(1,2,3-cd)pyrene

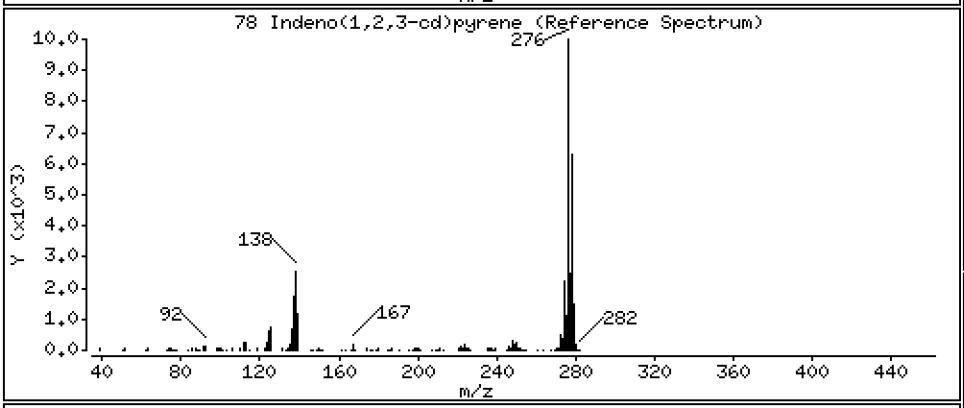
Concentration: 0.2975 ug/mL

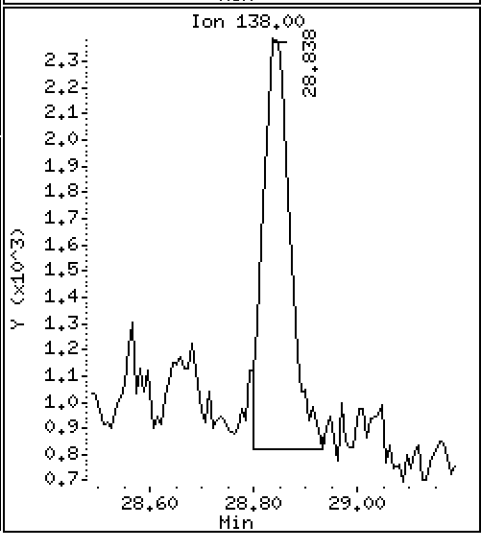


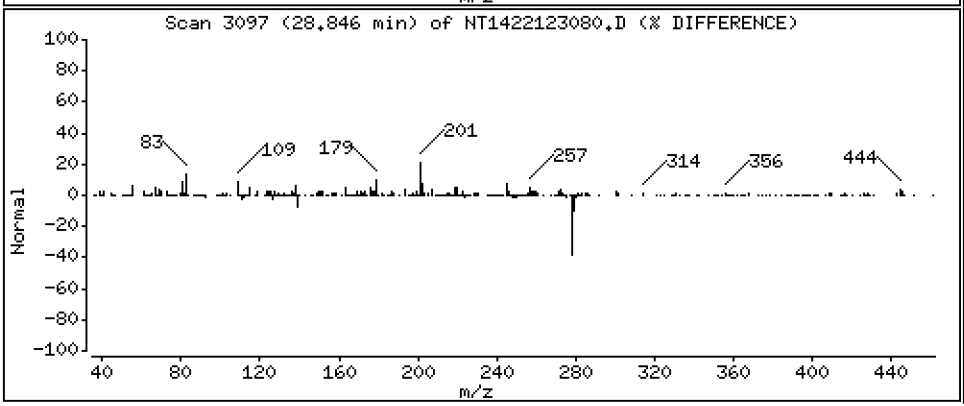












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Date : 01-JAN-2023 07:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-10

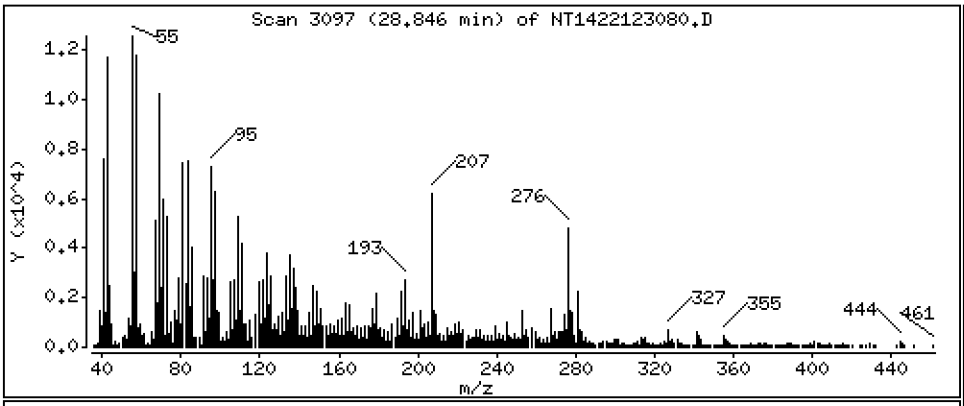
Operator: VTS

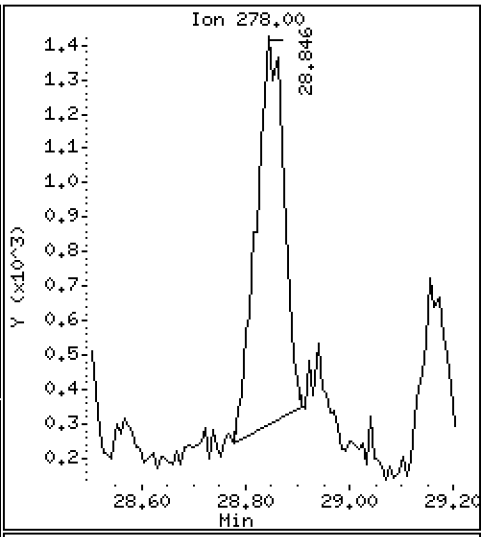
Column phase: ZB-5msi

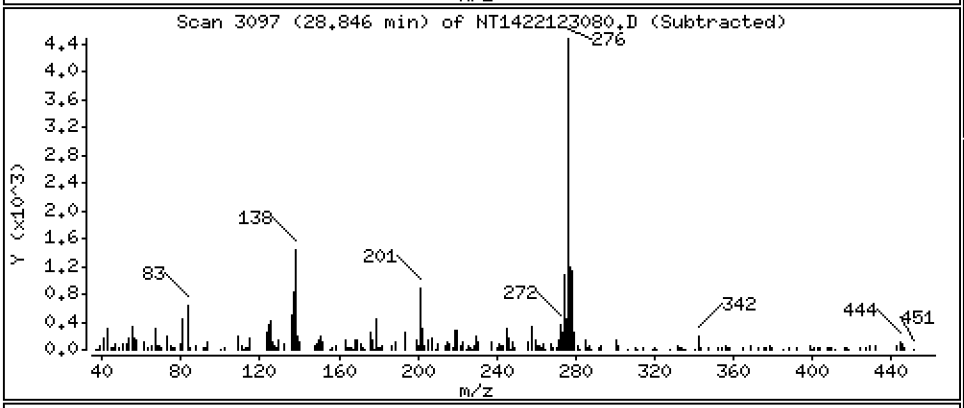
Column diameter: 0.25

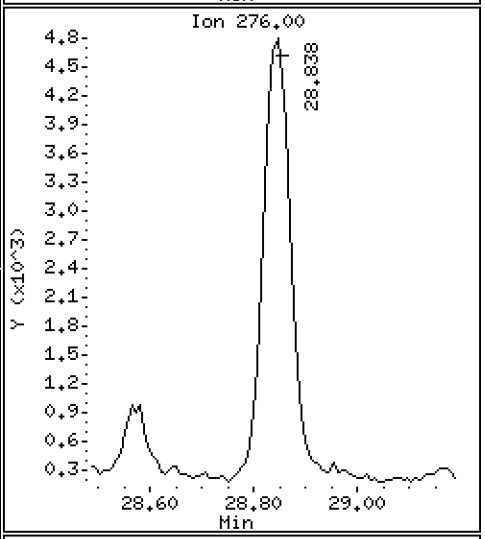
79 Dibenzo(a,h)anthracene

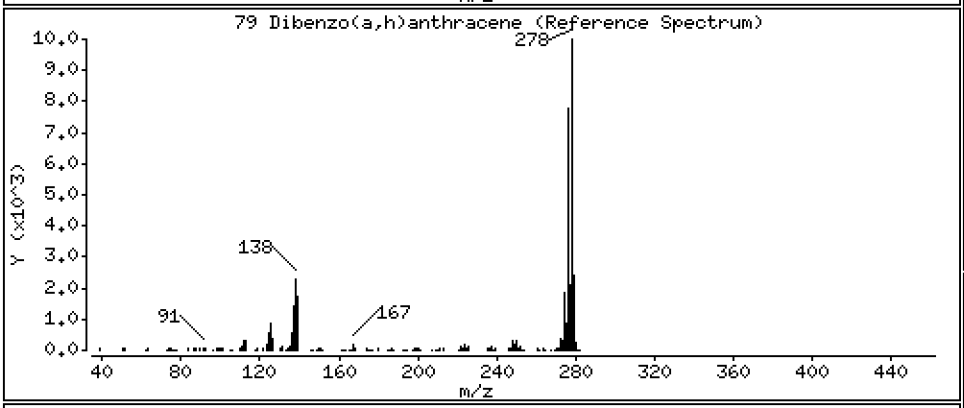
Concentration: 0.08497 ug/mL

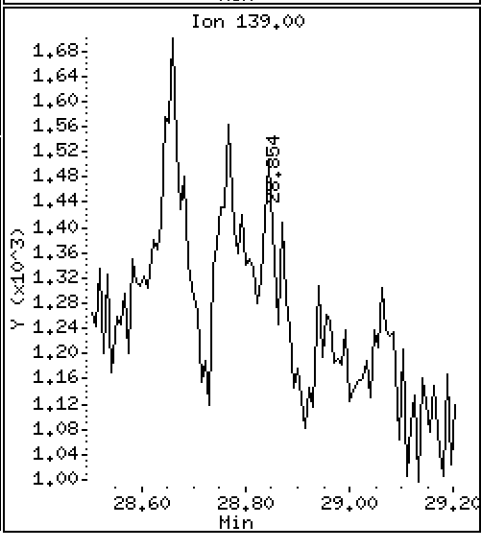


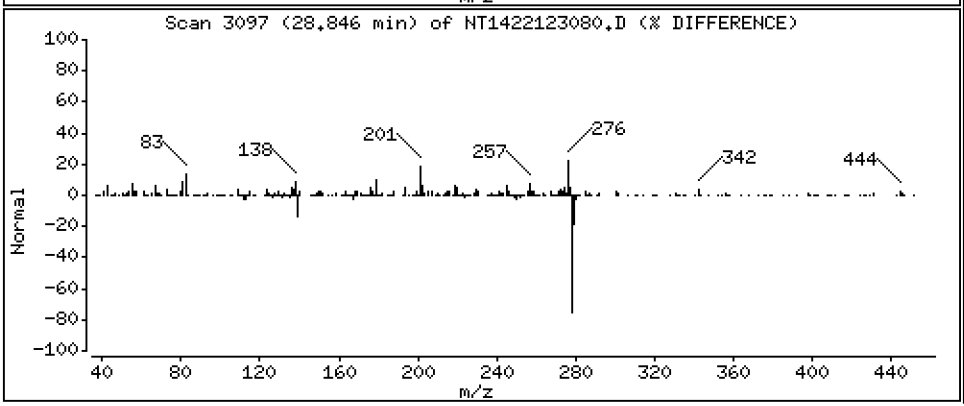












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Date : 01-JAN-2023 07:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-10

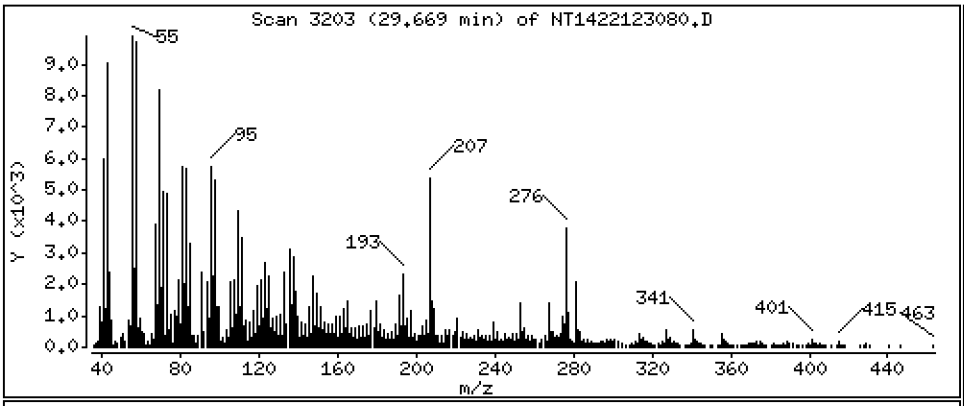
Operator: VTS

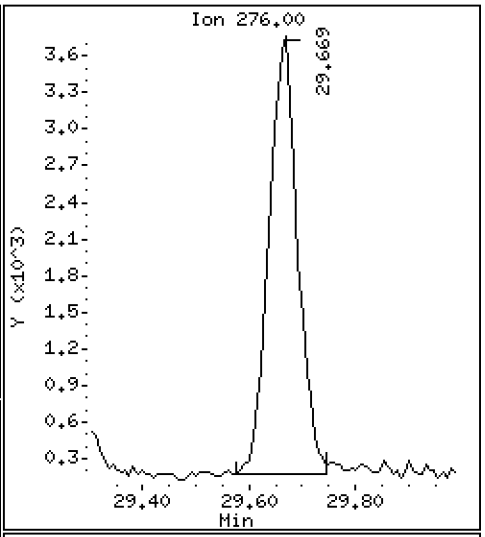
Column phase: ZB-5msi

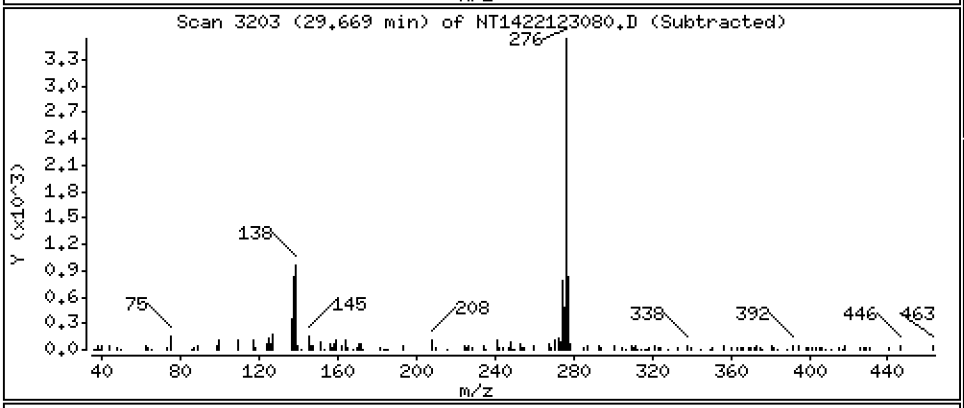
Column diameter: 0.25

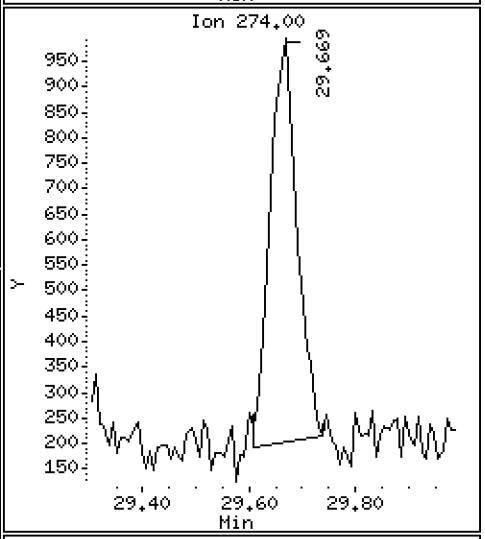
80 Benzo(g,h,i)perylene

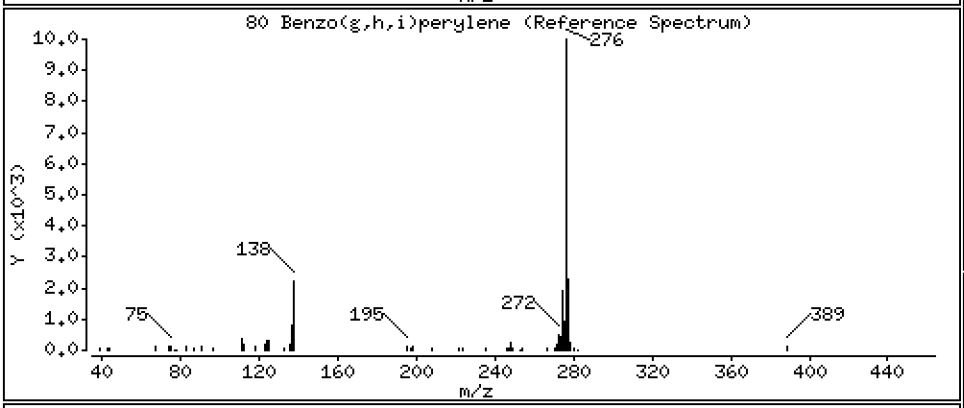
Concentration: 0.2832 ug/mL

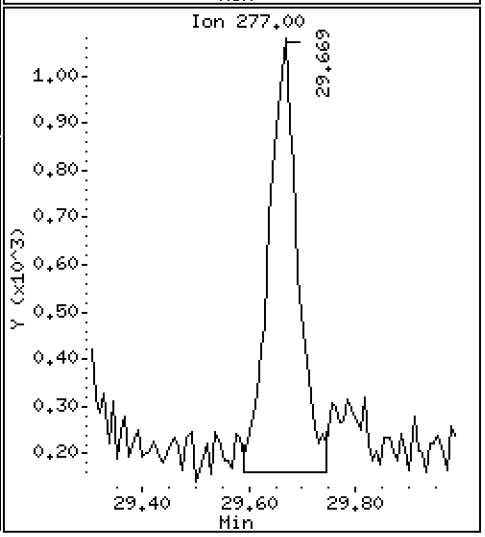


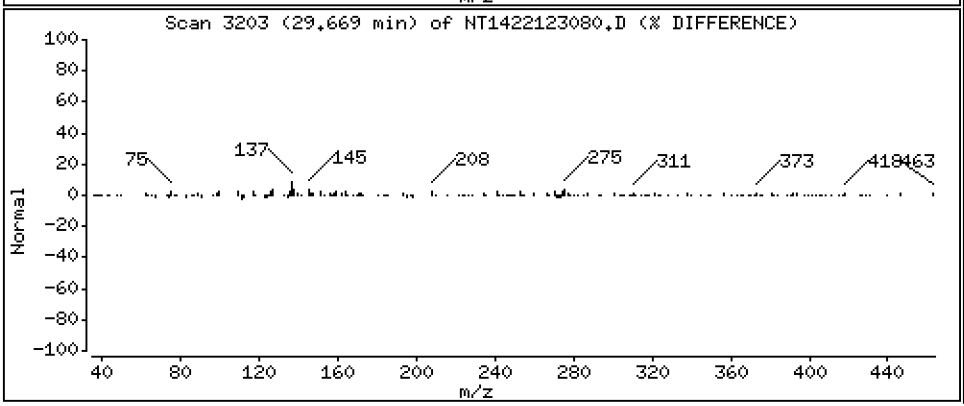












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Date : 01-JAN-2023 07:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-10

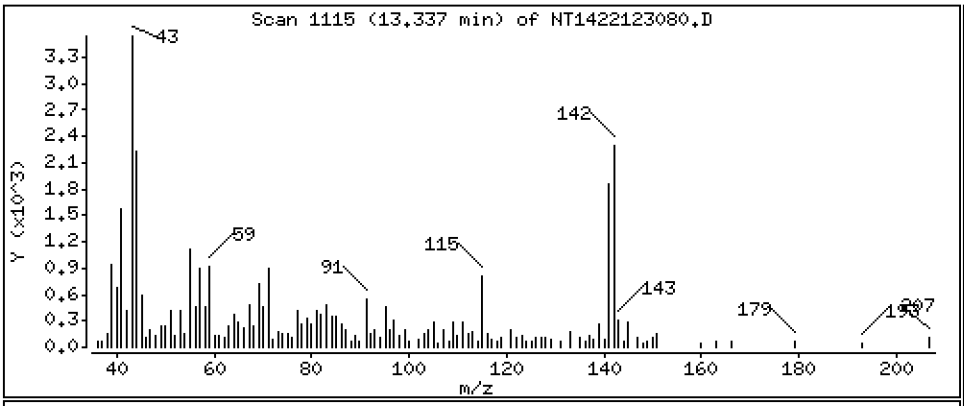
Operator: VTS

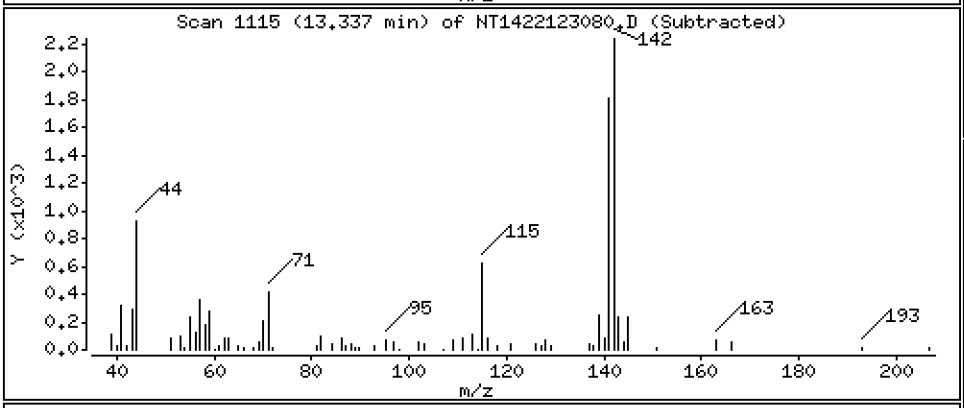
Column phase: ZB-5msi

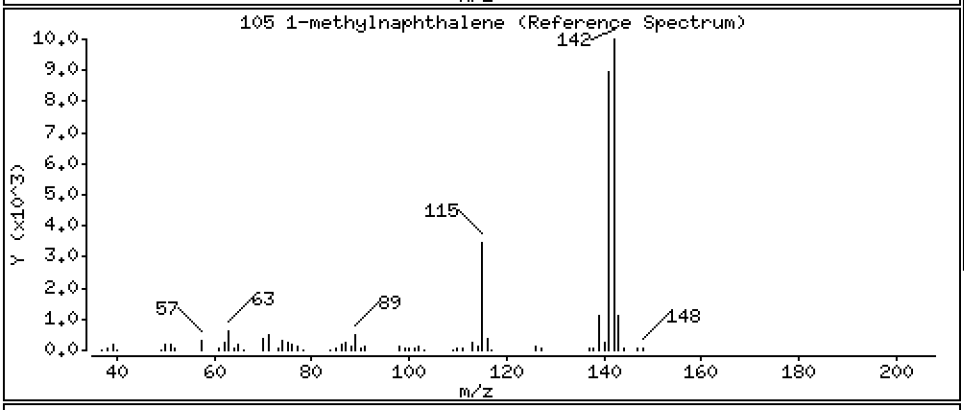
Column diameter: 0.25

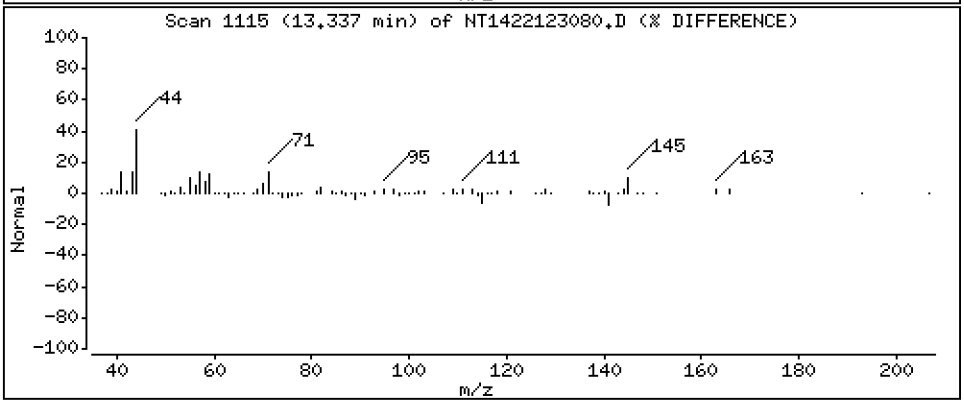
105 1-methylnaphthalene

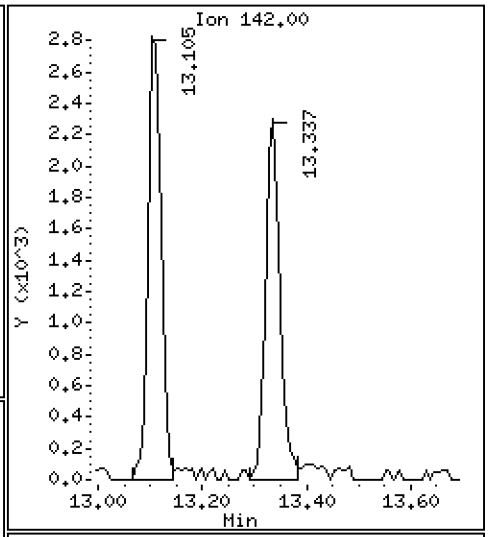
Concentration: 0.07752 ug/mL

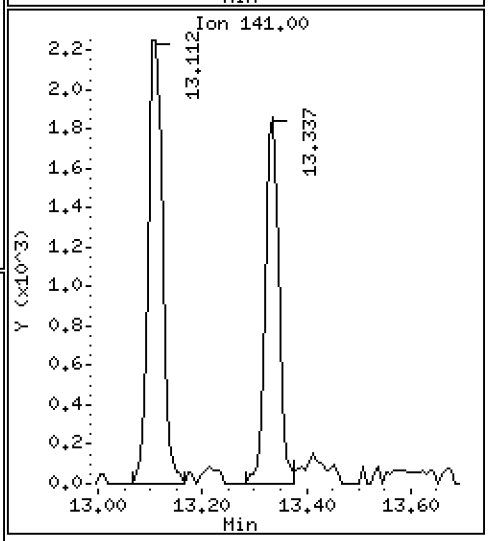












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Date : 01-JAN-2023 07:53

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-10

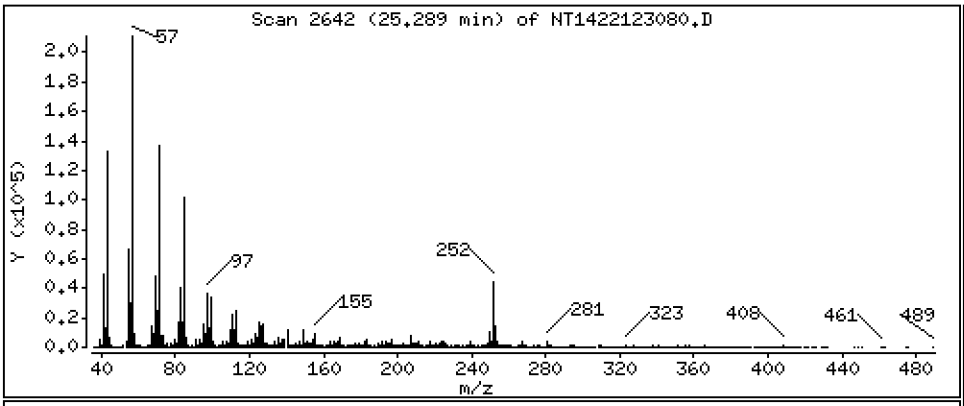
Operator: VTS

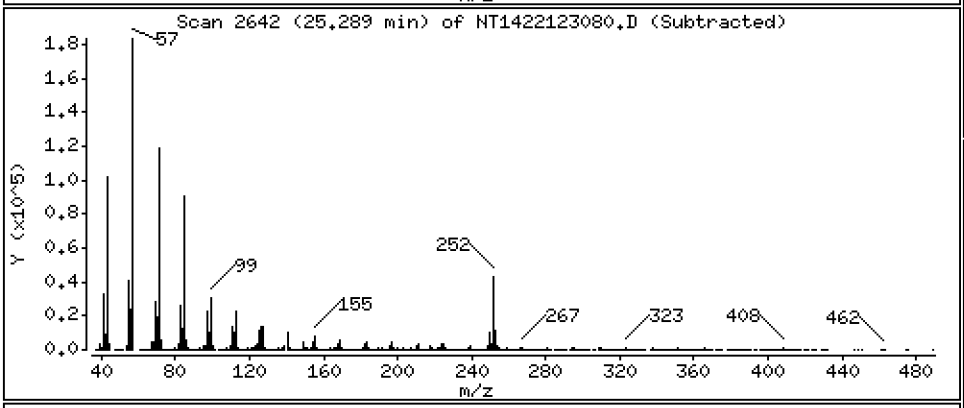
Column phase: ZB-5msi

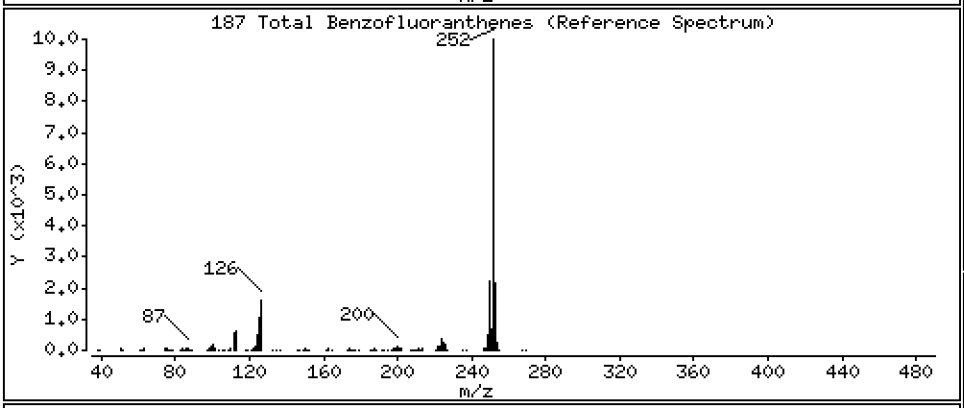
Column diameter: 0.25

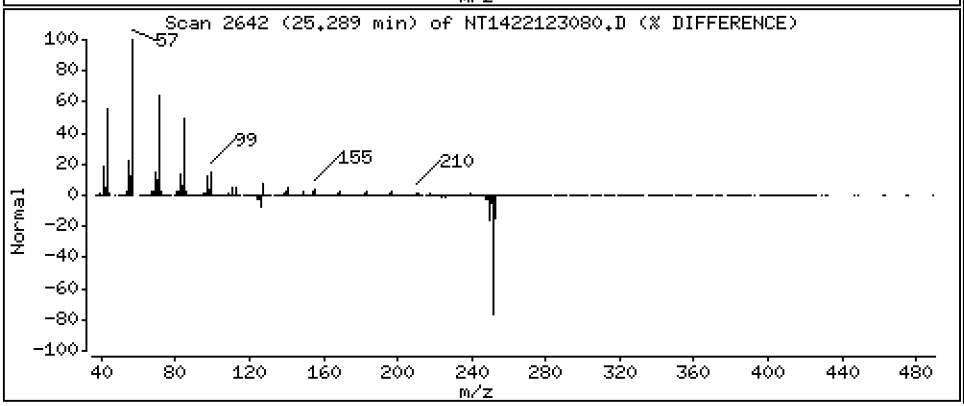
187 Total Benzofluoranthenes

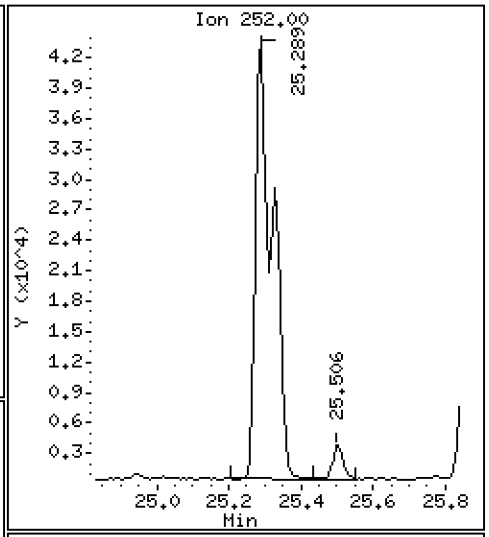
Concentration: 2.451 ug/mL

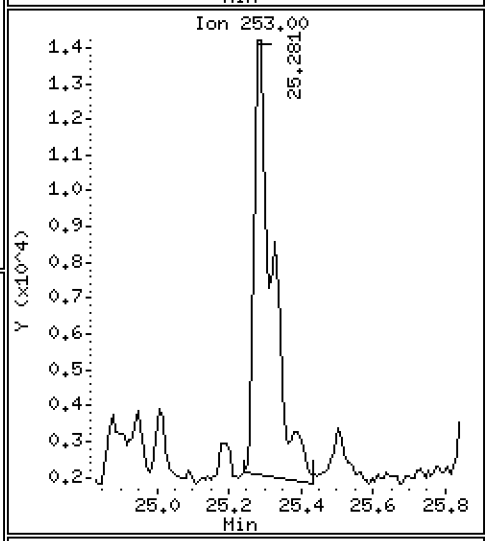


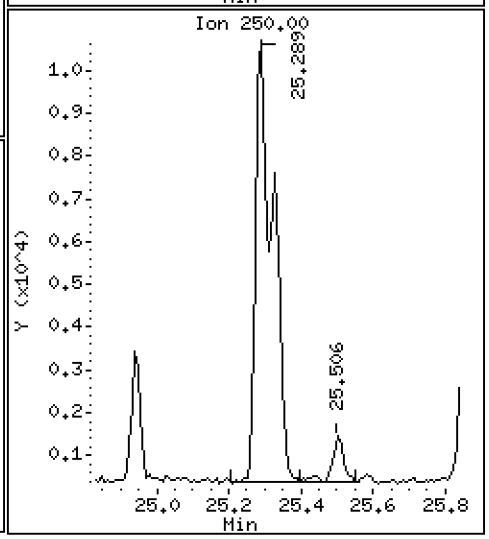












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230C.b\NT1422123080.D
Lab Smp Id: 22L0136-10
Inj Date : 01-JAN-2023 07:53 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : 22L0136-10
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 51
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.927	6.919	(0.756)	147571	5.40790	5.408
$	2 Phenol-d5	99	8.511	8.519	(0.929)	187866	5.57085	5.571
	3 Phenol	94	8.534	8.542	(0.932)	3890	0.10152	0.1015
$	5 2-Chlorophenol-d4	132	8.797	8.797	(0.960)	166787	5.88894	5.889
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	9.160	9.160	(1.000)	85176	4.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	9.517	9.525	(1.039)	69279	3.57892	3.579
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	9.432	9.440	(1.030)	8691	0.50947	0.5095
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13 2-Methylphenol	108	9.665	9.665	(1.055)	304	0.01092	0.01092(M)
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	9.936	9.936	(1.085)	2202	0.07497	0.07497
$	18 Nitrobenzene-d5	82	10.255	10.262	(0.879)	113492	4.27937	4.279
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	11.092	11.209	(0.951)	9067	0.54143	0.5414(M)
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	11.665	11.673	(1.000)	314063	4.00000	
	28 Naphthalene	128	11.704	11.712	(1.003)	6206	0.08030	0.08030
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	142	13.104	13.120	(1.123)	4745	0.08369	0.08369
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	13.893	13.901	(0.908)	223878	4.18659	4.187
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	14.791	14.799	(0.967)	2314	0.05159	0.05159
	40	Acenaphthylene	152	14.985	14.993	(0.979)	3528	0.05086	0.05086
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	15.302	15.310	(1.000)	159047	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	15.364	15.371	(1.004)	2892	0.06722	0.06722
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	15.696	15.704	(1.026)	4982	0.07722	0.07722
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	16.253	16.268	(1.062)	41791	0.68549	0.6855
	49	Fluorene	166	16.407	16.423	(1.072)	6346	0.09246	0.09246
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55	2,4,6-Tribromophenol	330	16.947	16.955	(1.108)	52395	6.78121	6.781
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	18.353	18.361	(1.000)	264157	4.00000	
	60	Phenanthrene	178	18.400	18.408	(1.003)	38277	0.55576	0.5558
	61	Anthracene	178	18.493	18.500	(1.008)	14078	0.21411	0.2141
	62	Carbazole	167	18.818	18.825	(1.025)	5619	0.08840	0.08840
	63	Di-n-butylphthalate	149	19.614	19.614	(1.069)	3959	0.05524	0.05524
	64	Fluoranthene	202	20.783	20.791	(0.888)	130419	1.94583	1.946
	65	Pyrene	202	21.208	21.216	(0.906)	116424	1.65209	1.652
$	66	Terphenyl-d14	244	21.487	21.495	(0.918)	213966	4.28204	4.282
	67	Butylbenzylphthalate	149	22.400	22.408	(0.957)	4767	0.17937	0.1794
	68	Benzo(a)anthracene	228	23.368	23.376	(0.999)	44312	0.70272	0.7027
*	69	Chrysene-d12	240	23.399	23.399	(1.000)	208161	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	23.438	23.446	(1.002)	218487	3.66811	3.668
	72	bis(2-Ethylhexyl)phthalate	149	23.423	23.430	(0.959)	61833	1.50200	1.502
*	134	Di-n-octylphthalate-d4	153	24.421	24.421	(1.000)	370682	4.00000	
	73	Di-n-octylphthalate	149	24.421	24.429	(1.000)	5278	0.05932	0.05932
	74	Benzo(b)fluoranthene	252	25.288	25.296	(0.969)	90355	1.48671	1.487
	75	Benzo(k)fluoranthene	252	25.327	25.335	(0.971)	62627	1.01245	1.012
	76	Benzo(a)pyrene	252	25.970	25.970	(0.996)	40588	0.80337	0.8034
*	77	Perylene-d12	264	26.086	26.086	(1.000)	193384	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.846	28.838	(1.106)	17084	0.29746	0.2975
	79	Dibenzo(a,h)anthracene	278	28.846	28.853	(1.106)	4147	0.08497	0.08497(M)
	80	Benzo(g,h,i)perylene	276	29.669	29.653	(1.137)	13624	0.28317	0.2832
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	Compound Not Detected.					
	105	1-methylnaphthalene	142	13.336	13.344	(1.143)	4223	0.07752	0.07752
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.288	25.335	(0.969)	144021	2.45115	2.451
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123080.D
Lab Smp Id: 22L0136-10
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Misc Info:

Calibration Date: 31-DEC-2022
Calibration Time: 23:30
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138755	69378	277510	85176	-38.61
27 Naphthalene-d8	501723	250862	1003446	314063	-37.40
42 Acenaphthene-d10	275234	137617	550468	159047	-42.21
59 Phenanthrene-d10	440085	220043	880170	264157	-39.98
69 Chrysene-d12	384795	192398	769590	208161	-45.90
134 Di-n-octylphthala	674530	337265	1349060	370682	-45.05
77 Perylene-d12	336665	168333	673330	193384	-42.56

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	-0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	-0.07
42 Acenaphthene-d10	15.31	14.81	15.81	15.30	-0.05
59 Phenanthrene-d10	18.36	17.86	18.86	18.35	-0.04
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.42	-0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123080.D

Lab ID: 22L0136-10
nt14.i, 20221230C.b\ABN.m,   01-JAN-2023 07:53

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

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.951	0.960	-0.0093	Benzoic acid

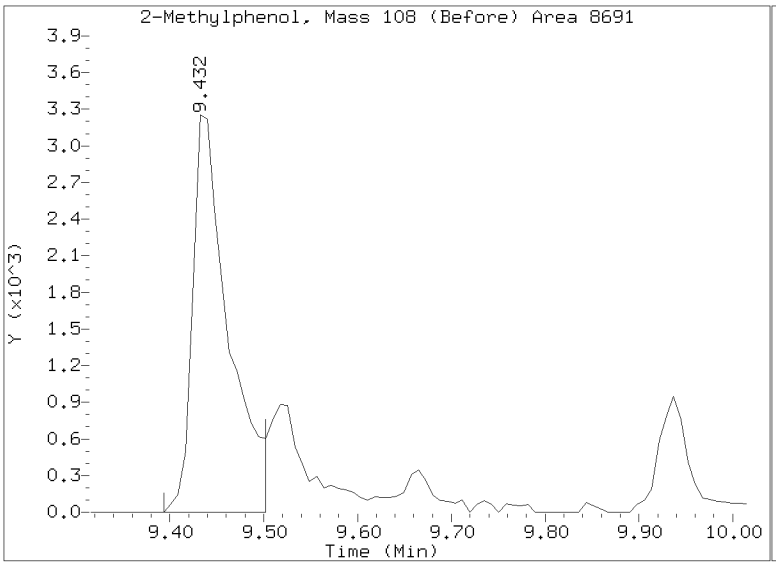
RRT check based on Ccal File: NT1422123066.D

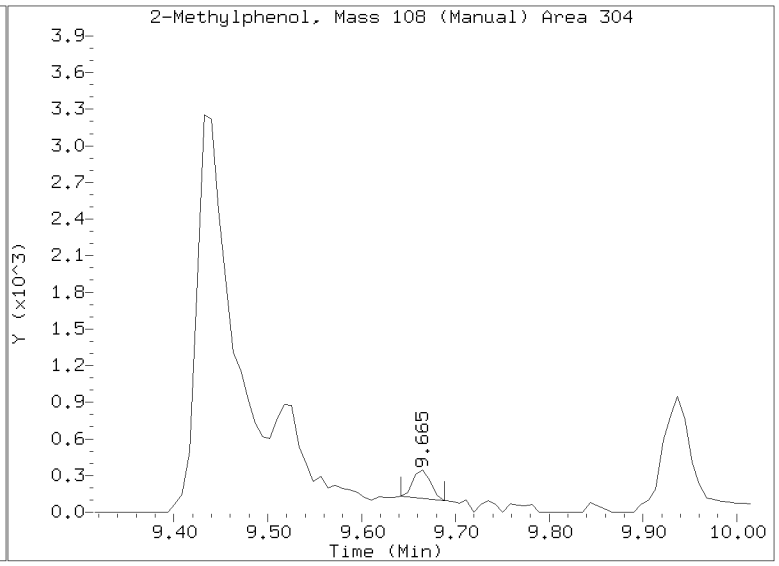
On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

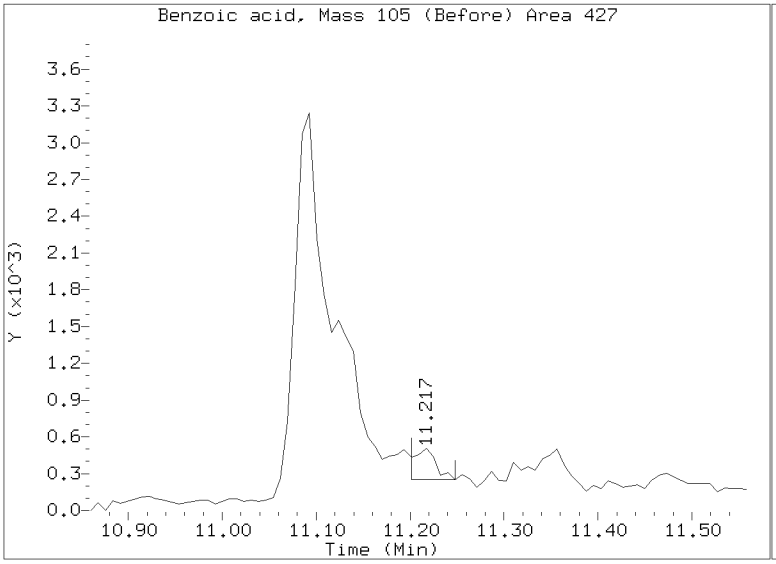
* Only compounds listed in the work order have been verified by the analyst *

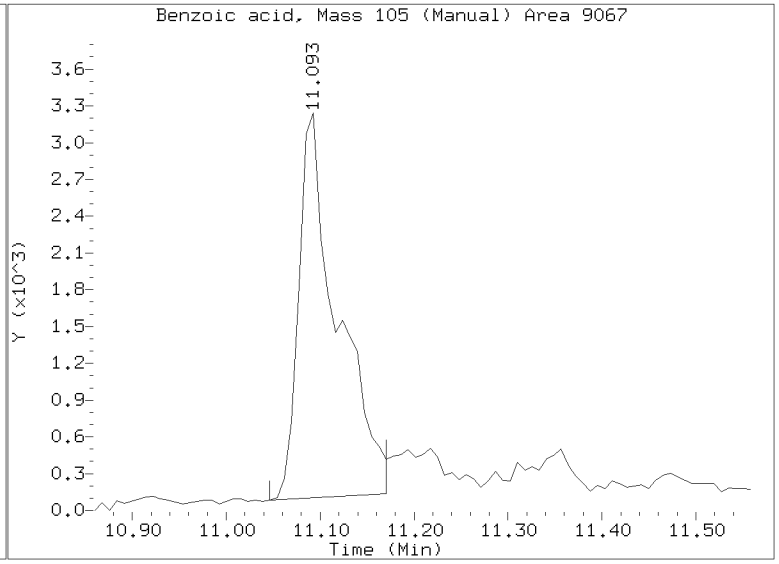
Quant Ion Manual Peak Adjustment Report

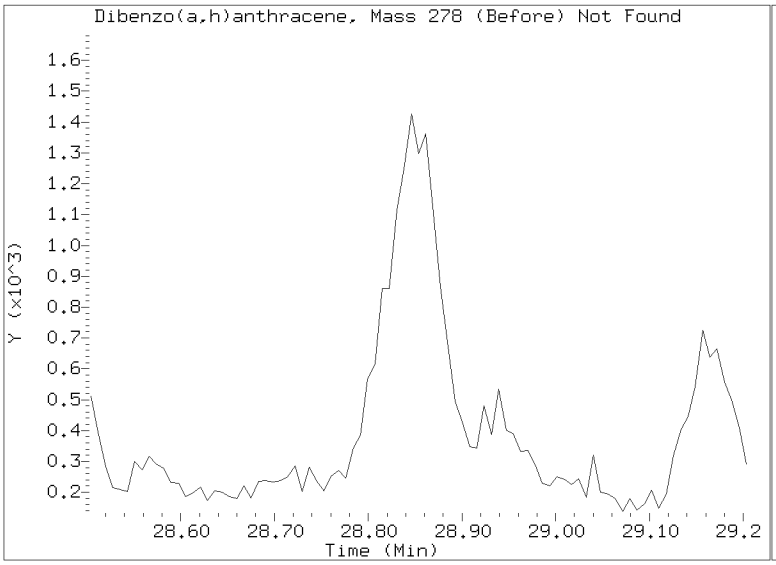
Datafile: //target/share/chem3/nt14.i/20221230C.b/NT1422123080.D
Injection Date: 01-JAN-2023 07:53
Lab ID:22L0136-10 Client ID:
Report Date: 01/04/2023 14:26

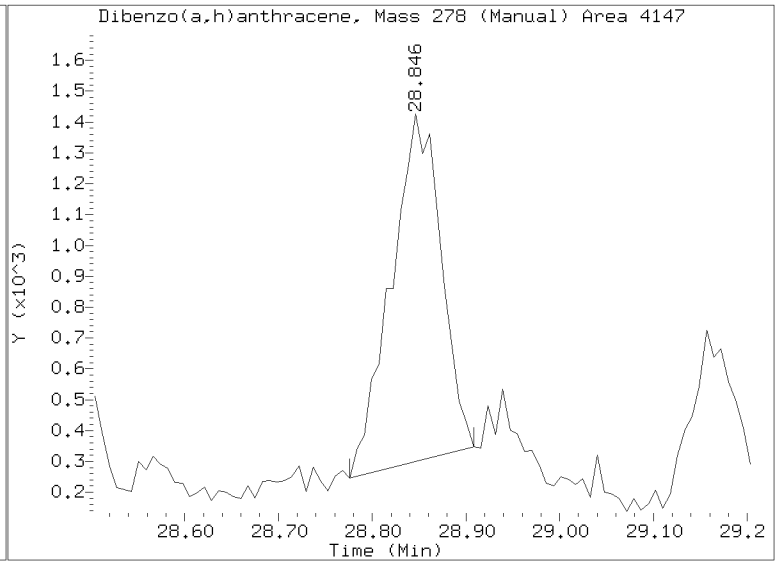












Analytical Resources, LLC
Analytical Chemists and Consultants

LDW22-SS771-FD

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

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

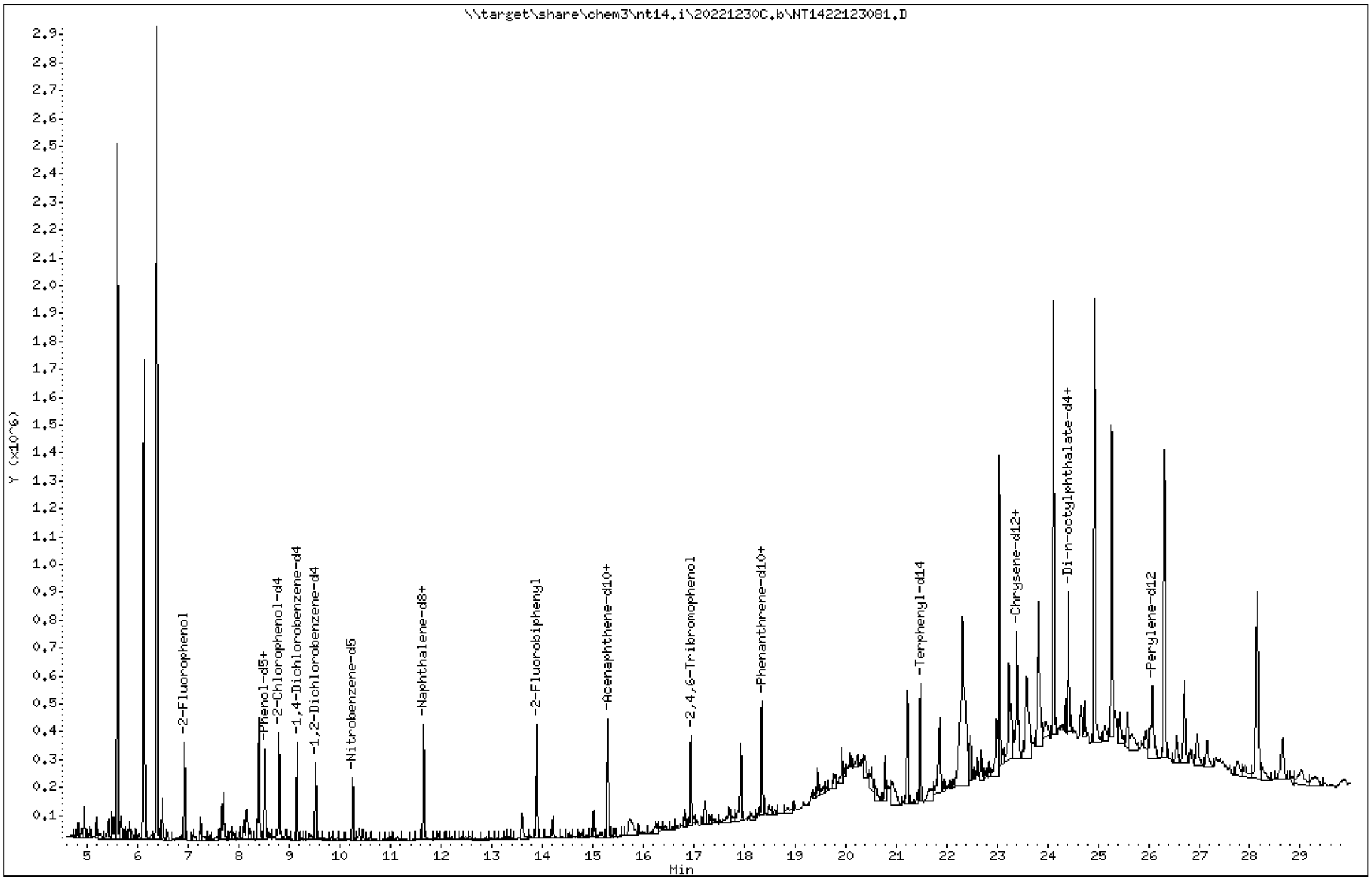
Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-11 A	SDG:	22L0136
Sampled:	12/06/22 13:35	Prepared:	12/09/22 14:39	File ID:	NT1422123081.D
% Solids:	42.54	Preparation:	EPA 3546 (Microwave)	Analyzed:	01/01/23 08:29
Batch:	BKL0193	Sequence:	SKL0355	Initial/Final:	23.55 g Wet / 1 mL
Instrument:	NT14	Column:	ZB-5MS	Calibration:	FL00066
Cleanups:	GPC				

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
106-44-5	4-Methylphenol	1	20.0	U	7.4	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
Phenol-d5	748.64	531	71.0	29 - 120	
2-Chlorophenol-d4	748.64	567	75.8	31 - 120	
1,2-Dichlorobenzene-d4	499.09	352	70.5	32 - 120	
Nitrobenzene-d5	499.09	414	83.0	30 - 120	

Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123081.D
Date : 01-JAN-2023 08:29
Client ID:
Sample Info: 22L0136-11

Instrument: nt14.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



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Date : 01-JAN-2023 08:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-11

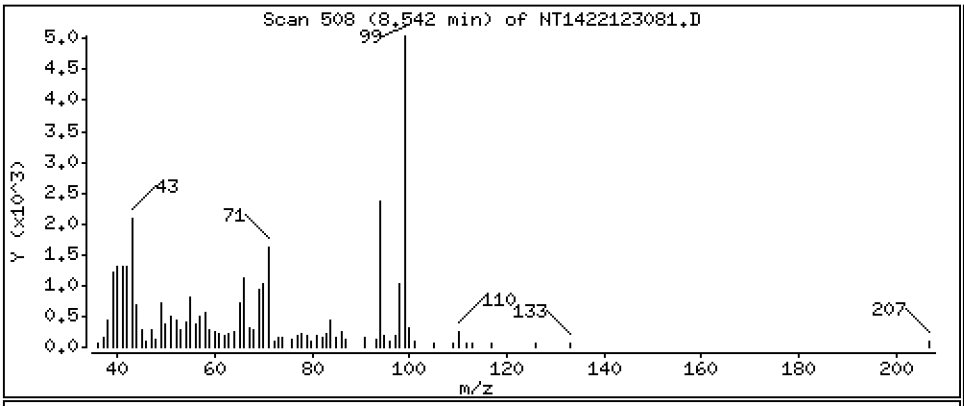
Operator: VTS

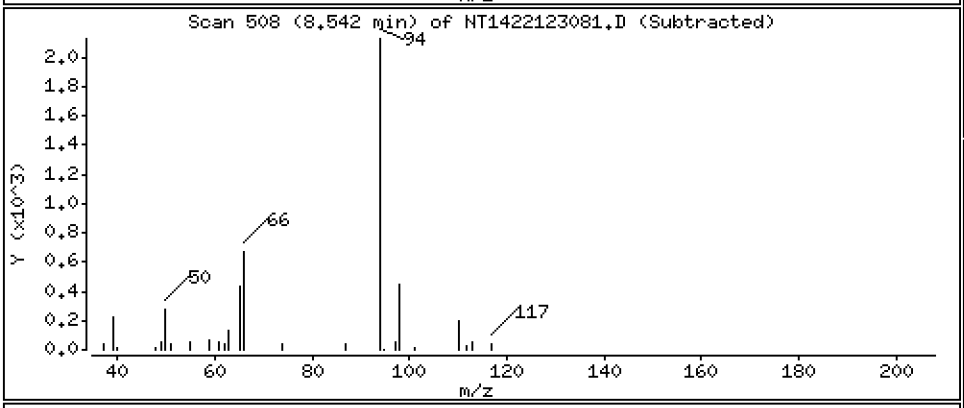
Column phase: ZB-5msi

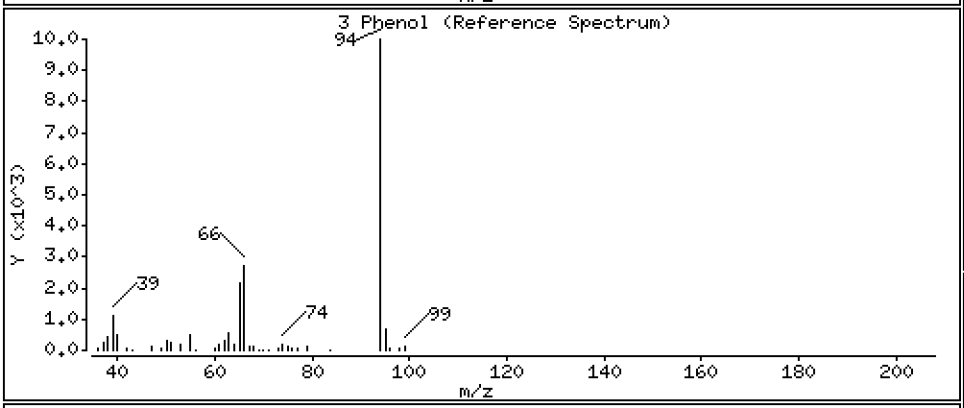
Column diameter: 0.25

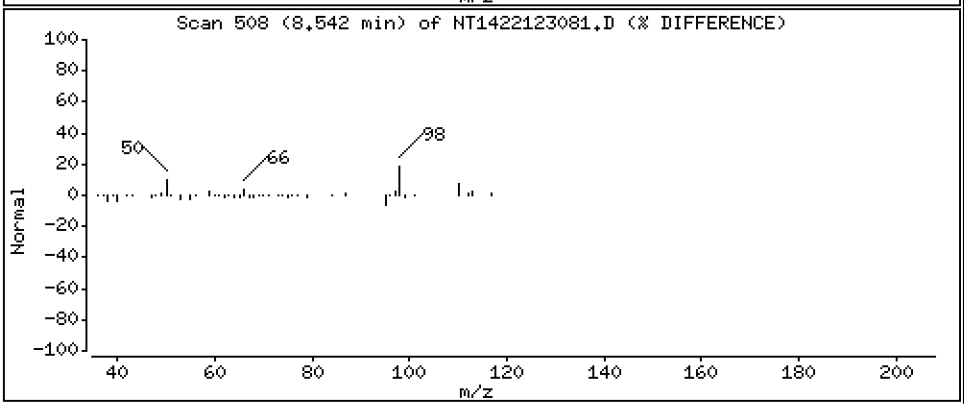
3 Phenol

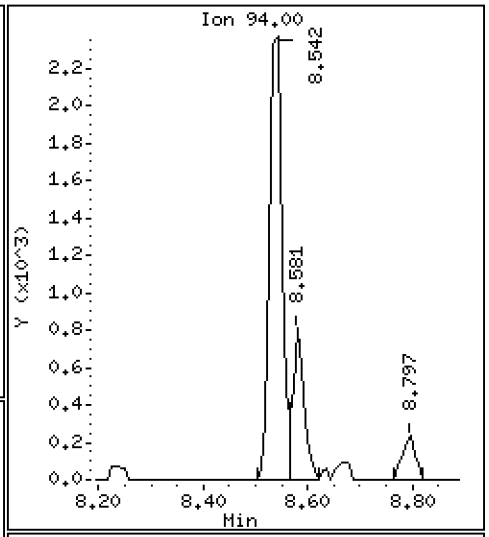
Concentration: 0.09767 ug/mL

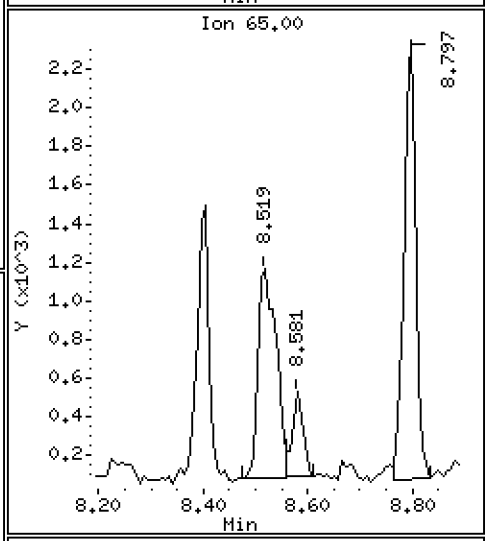


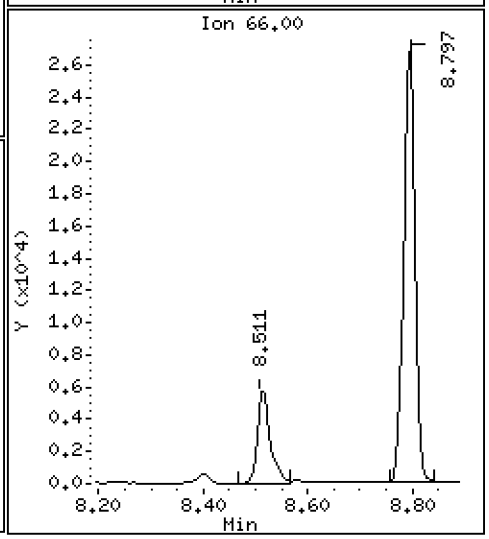












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Date : 01-JAN-2023 08:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-11

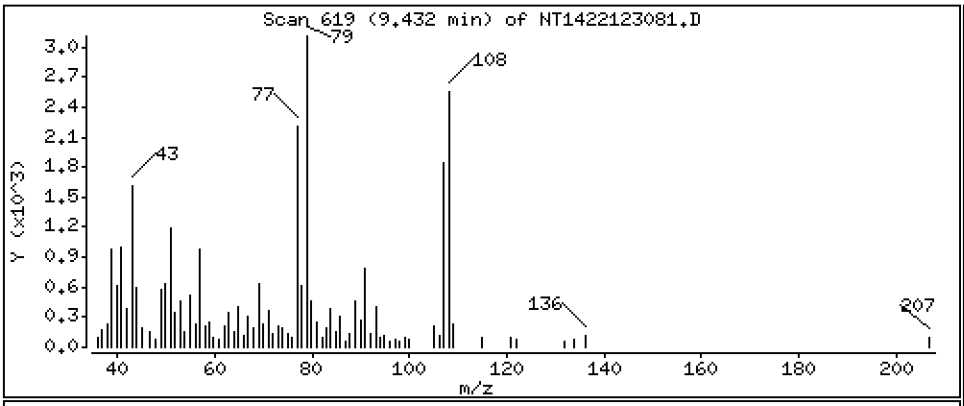
Operator: VTS

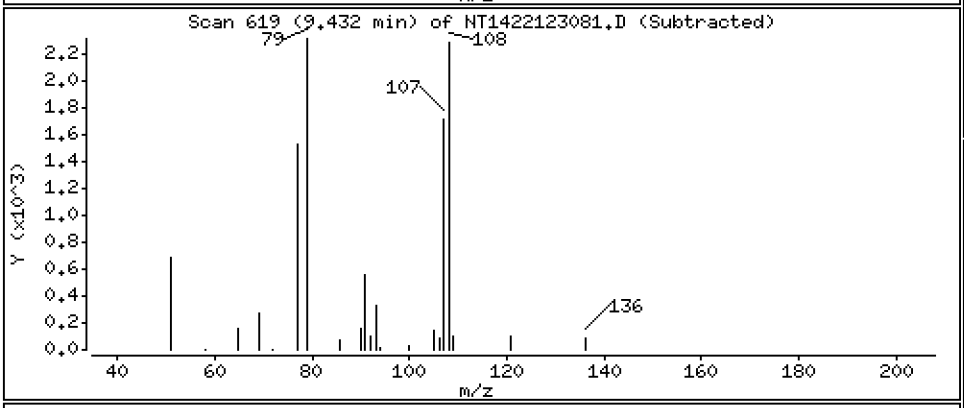
Column phase: ZB-5msi

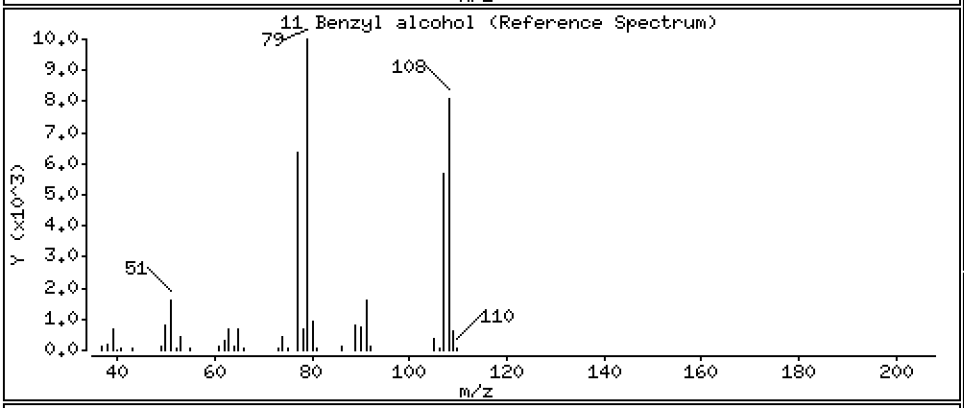
Column diameter: 0.25

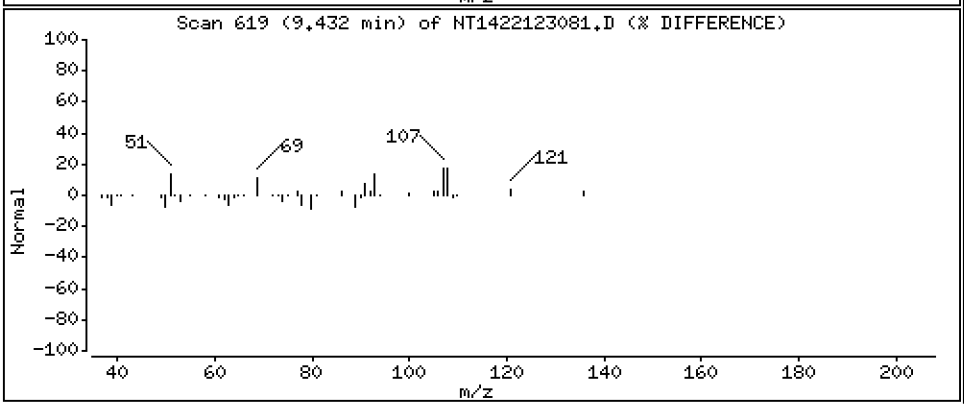
11 Benzyl alcohol

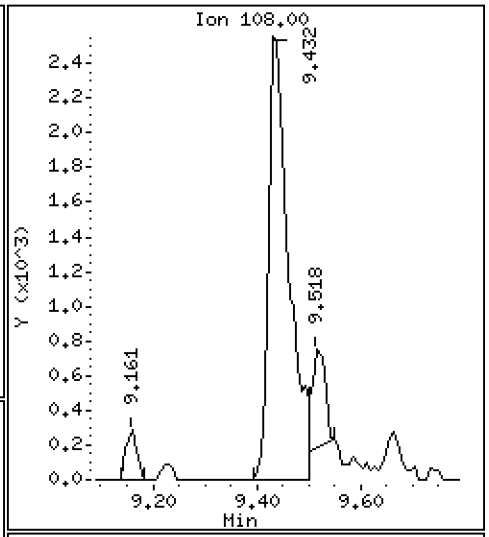
Concentration: 0.3953 ug/mL

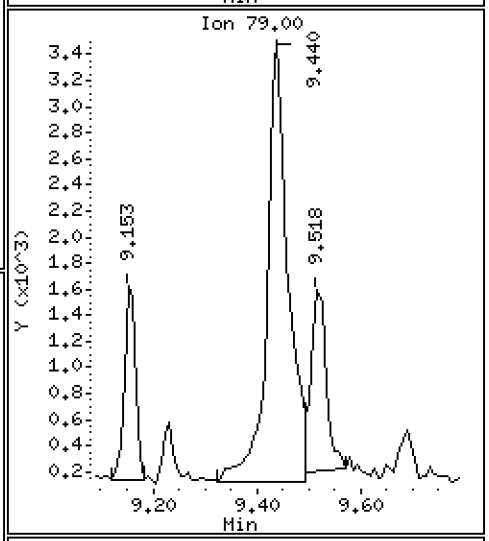


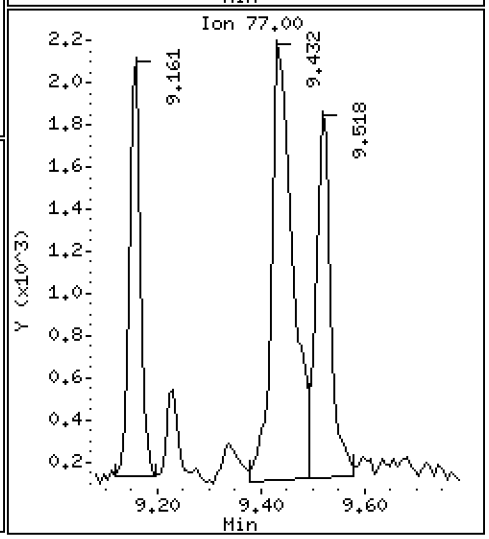












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Date : 01-JAN-2023 08:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-11

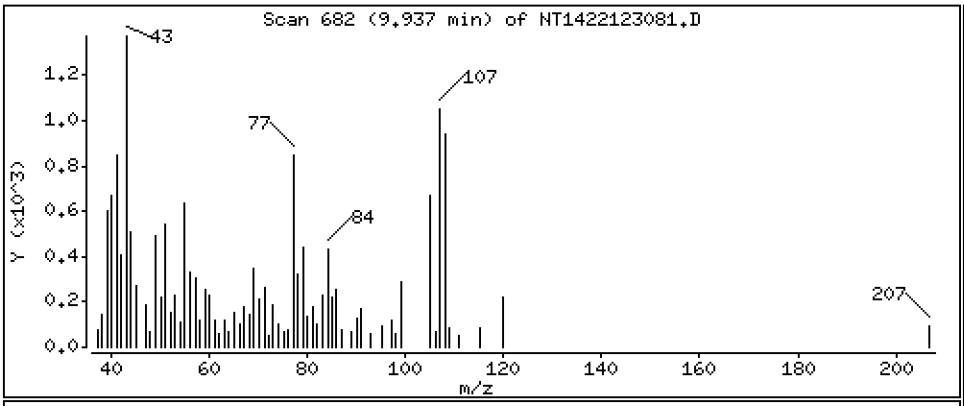
Operator: VTS

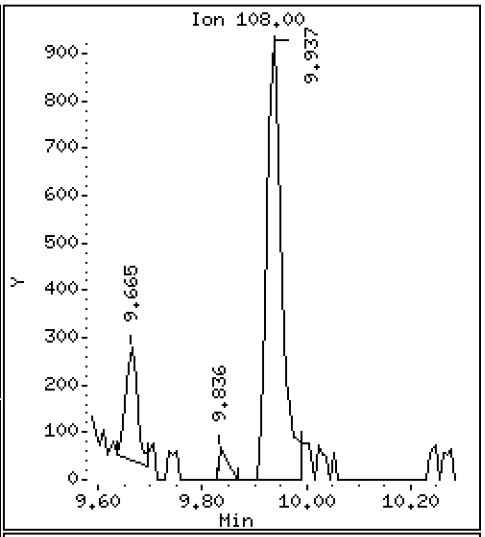
Column phase: ZB-5msi

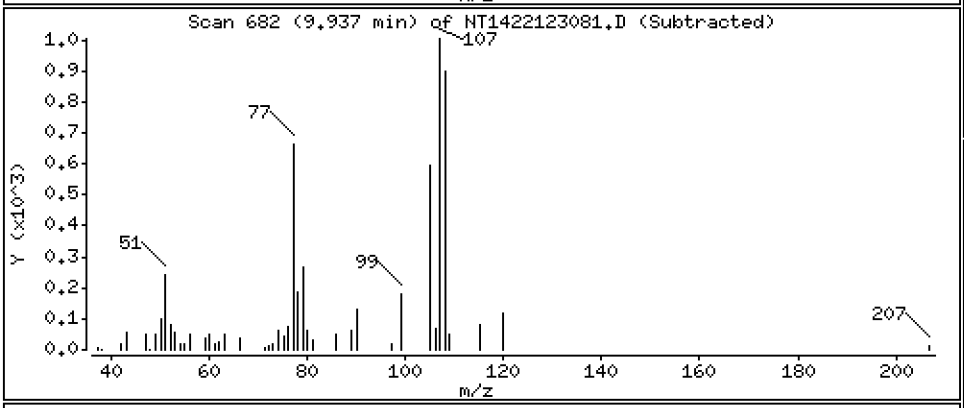
Column diameter: 0.25

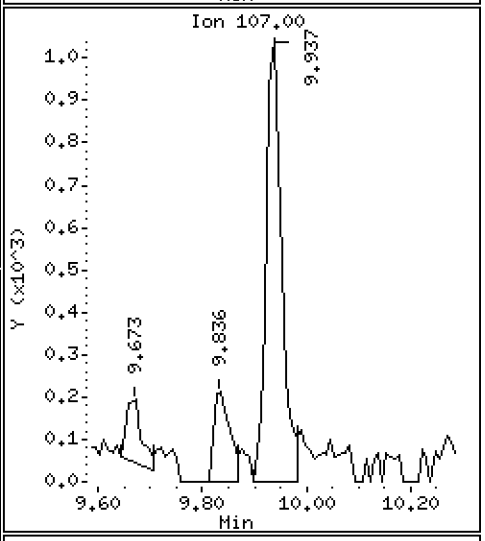
15 4-Methylphenol

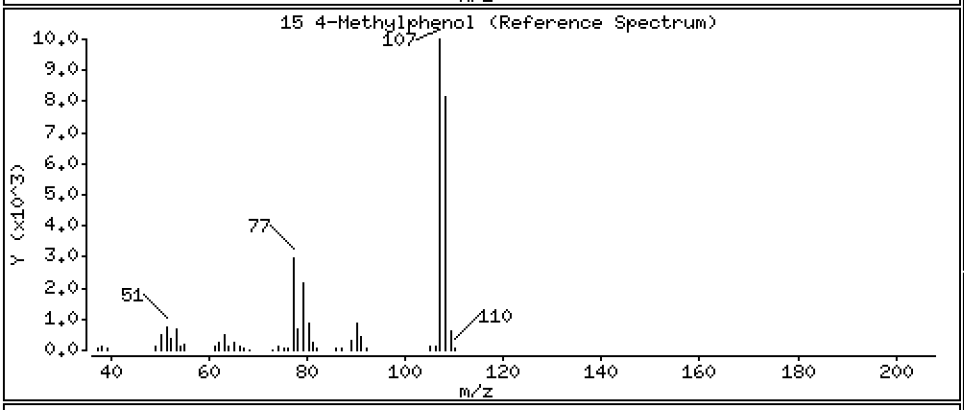
Concentration: 0.06001 ug/mL

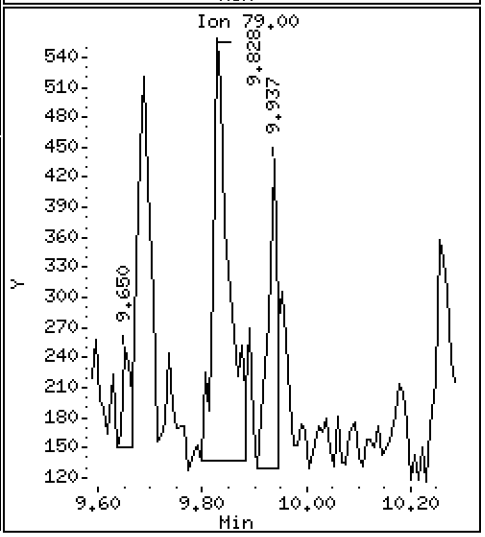


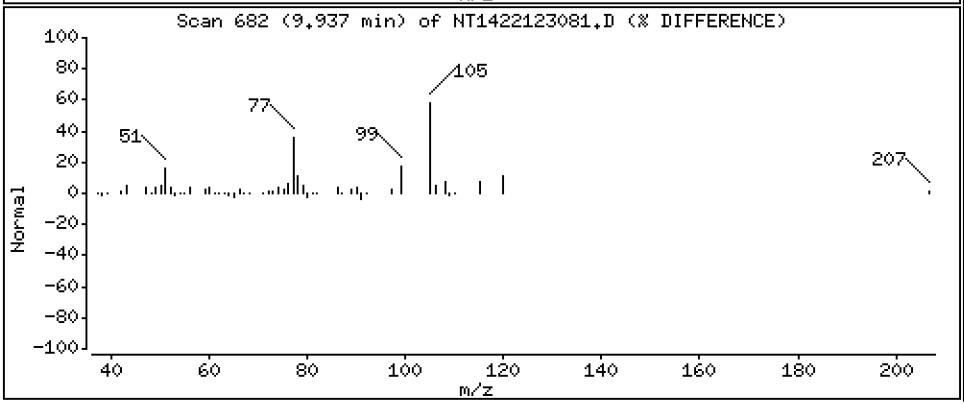












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Date : 01-JAN-2023 08:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-11

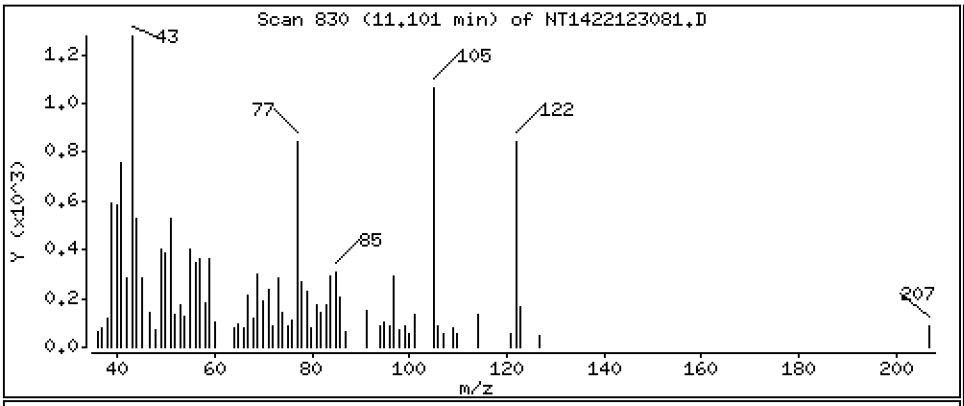
Operator: VTS

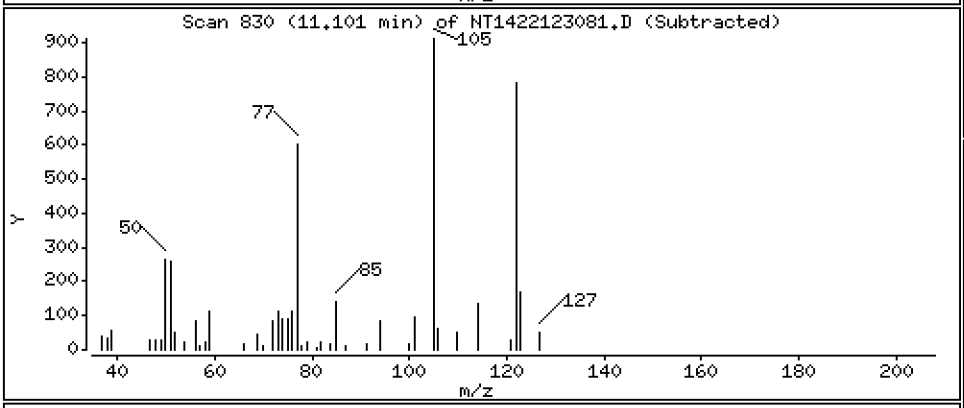
Column phase: ZB-5msi

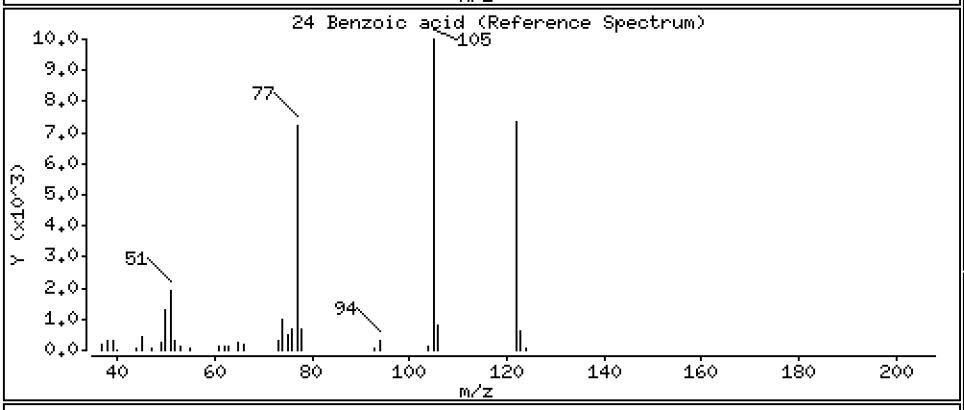
Column diameter: 0.25

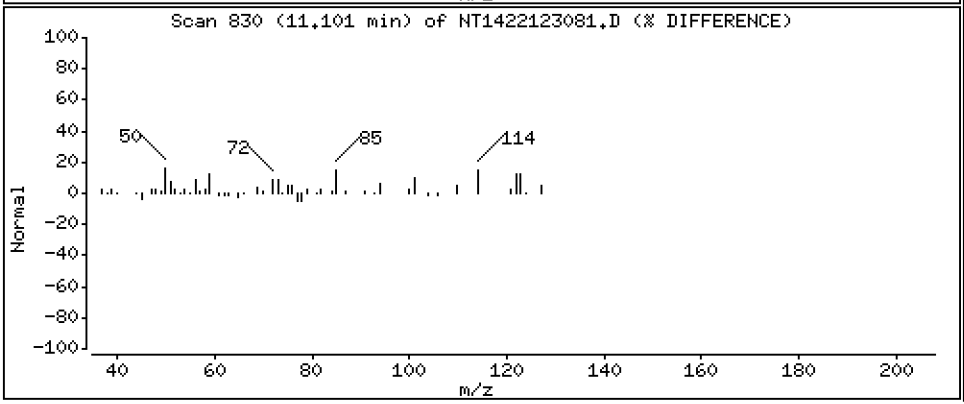
24 Benzoic acid

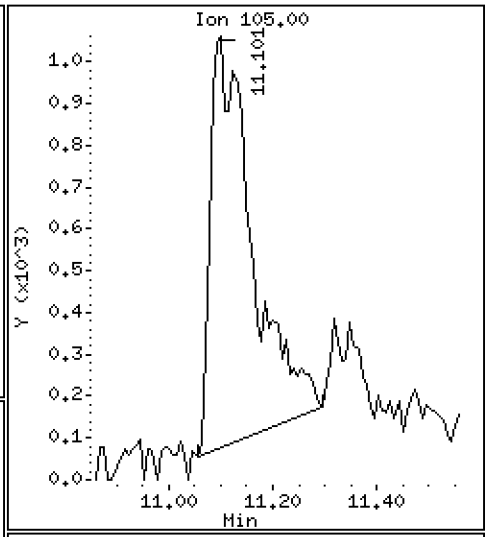
Concentration: 0.3234 ug/mL

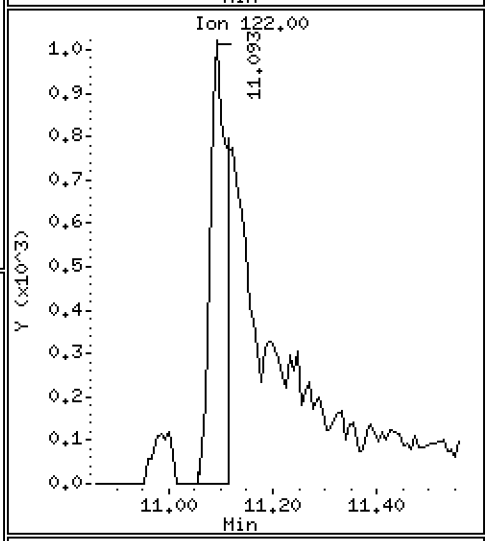


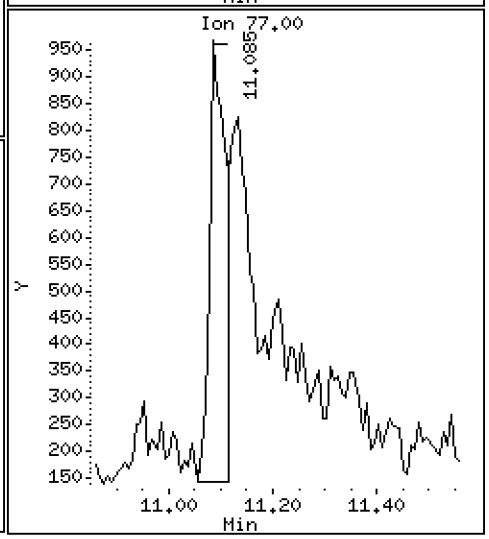












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Date : 01-JAN-2023 08:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-11

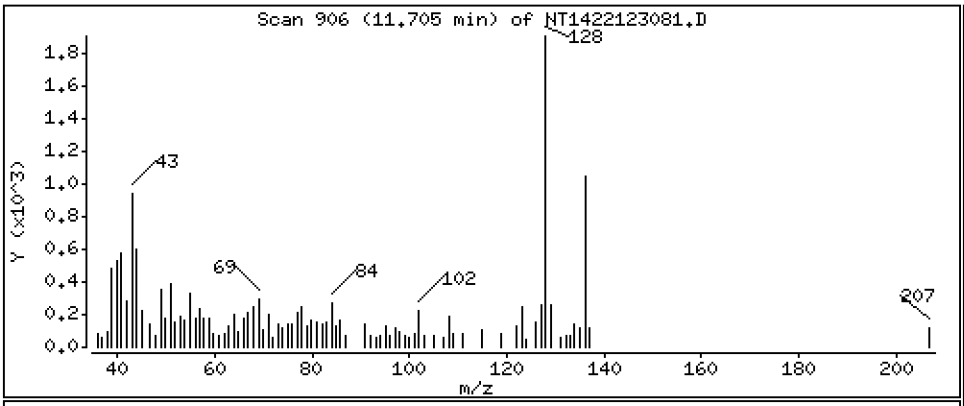
Operator: VTS

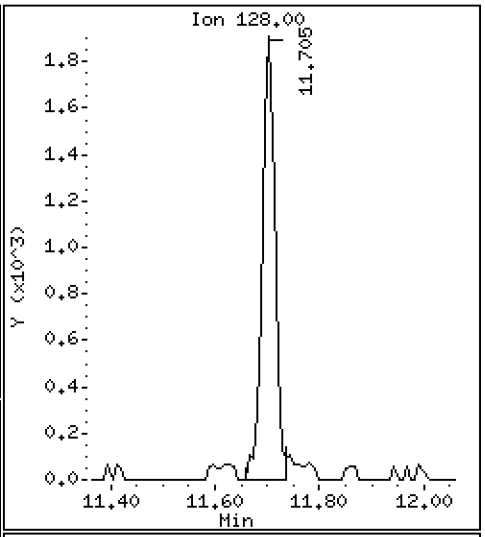
Column phase: ZB-5msi

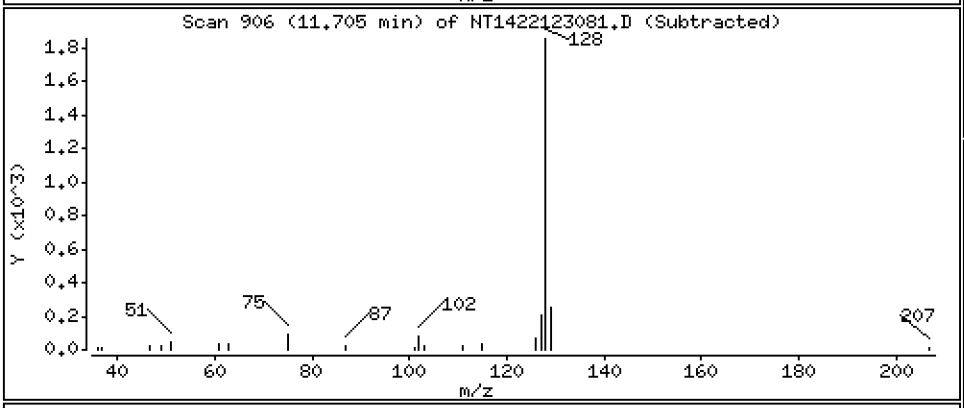
Column diameter: 0.25

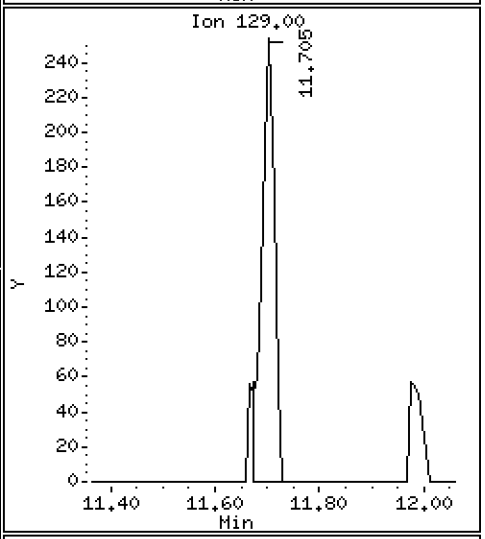
28 Naphthalene

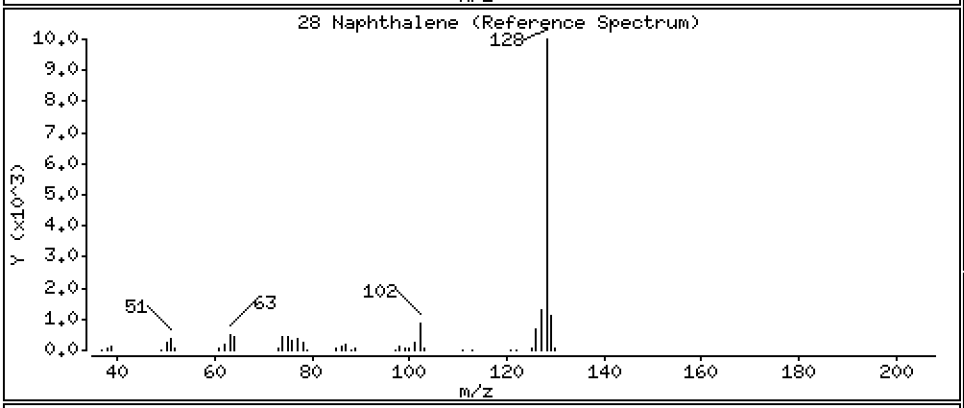
Concentration: 0.03928 ug/mL

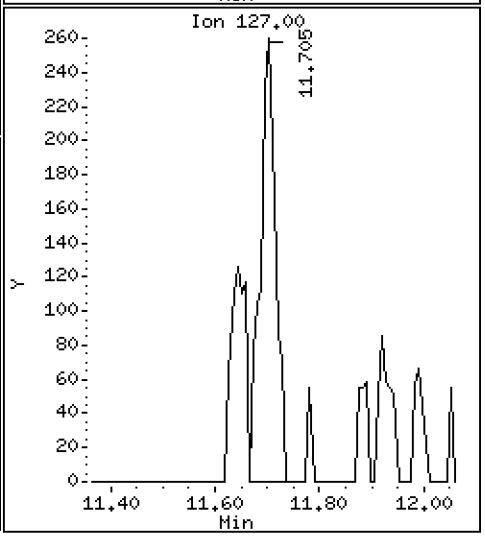


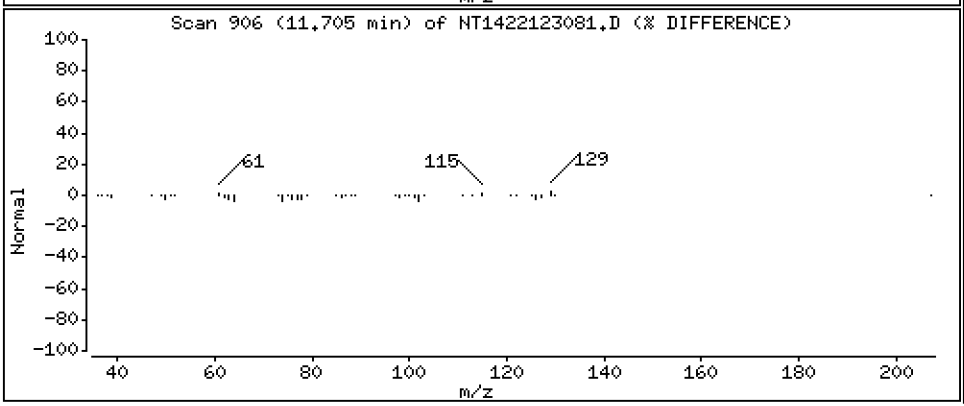












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Date : 01-JAN-2023 08:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-11

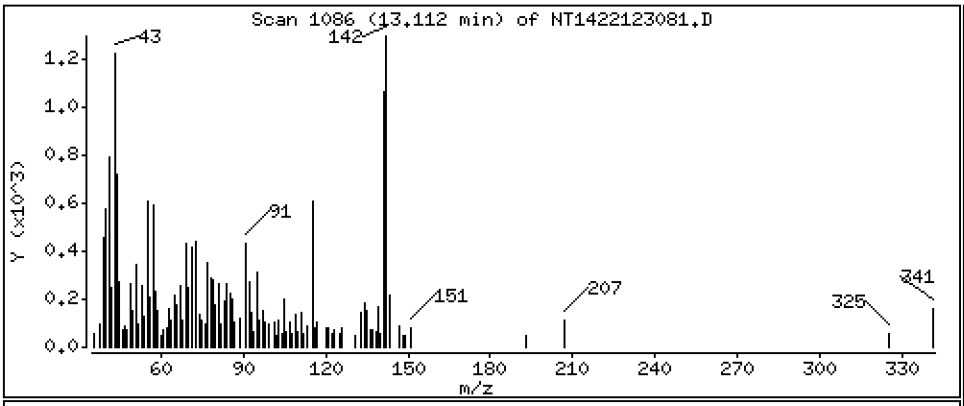
Operator: VTS

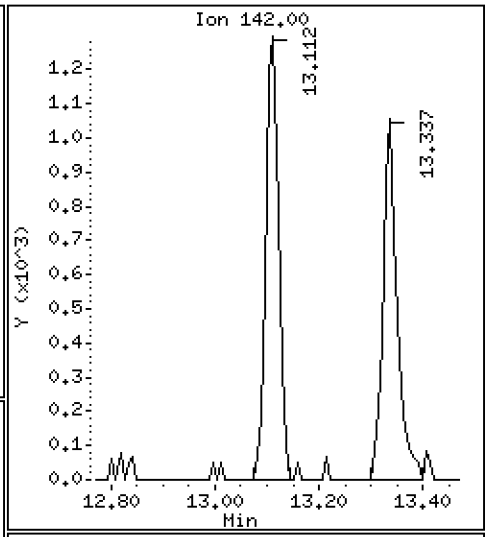
Column phase: ZB-5msi

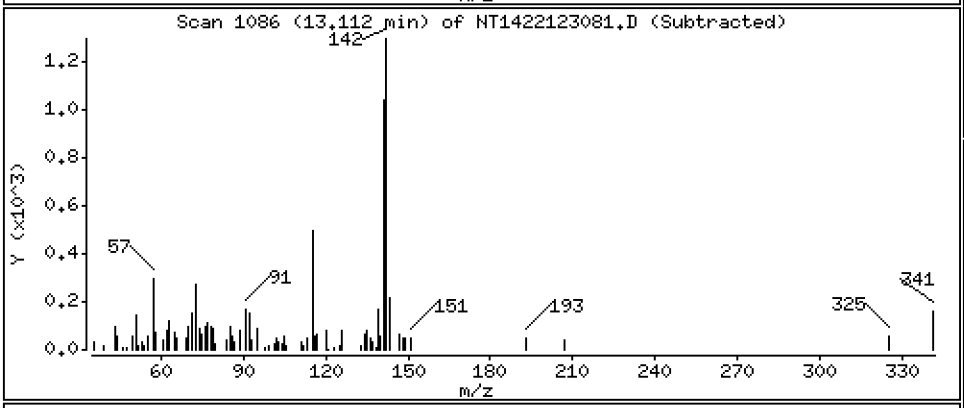
Column diameter: 0.25

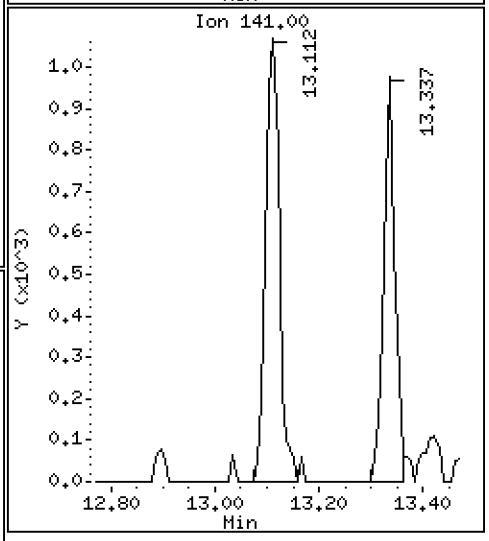
32 2-Methylnaphthalene

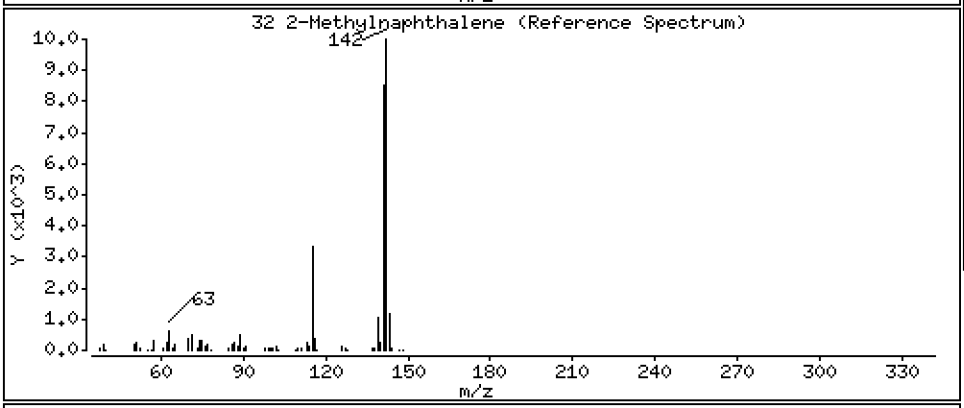
Concentration: 0.03652 ug/mL

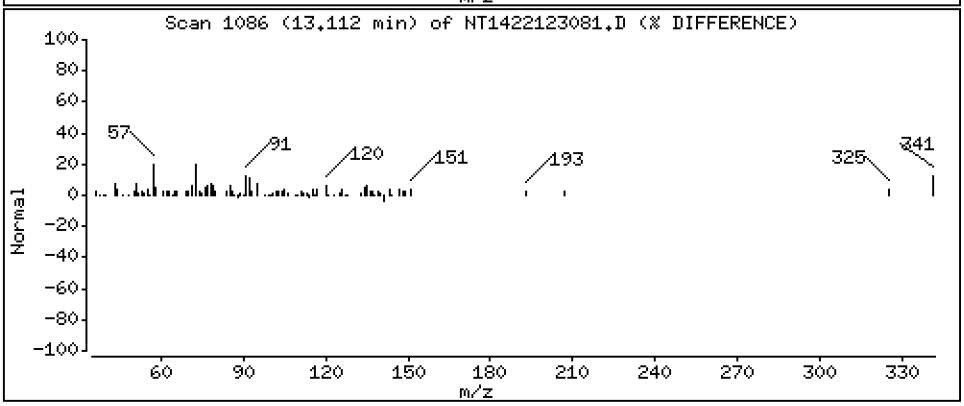












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123081.D

Date : 01-JAN-2023 08:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-11

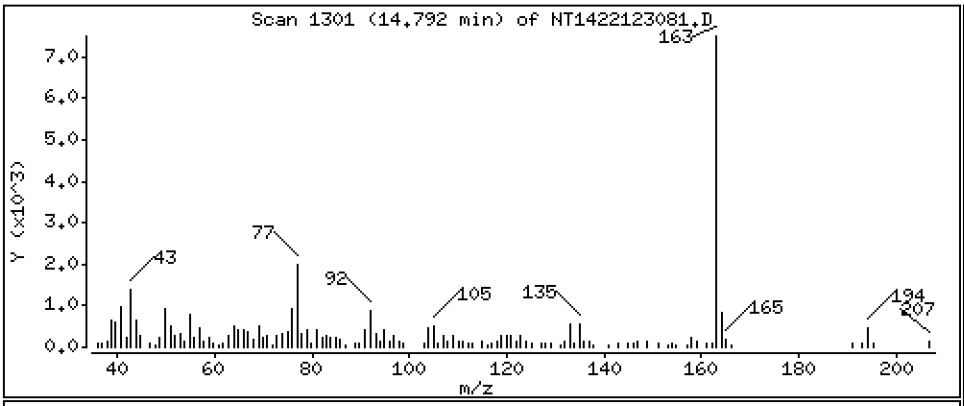
Operator: VTS

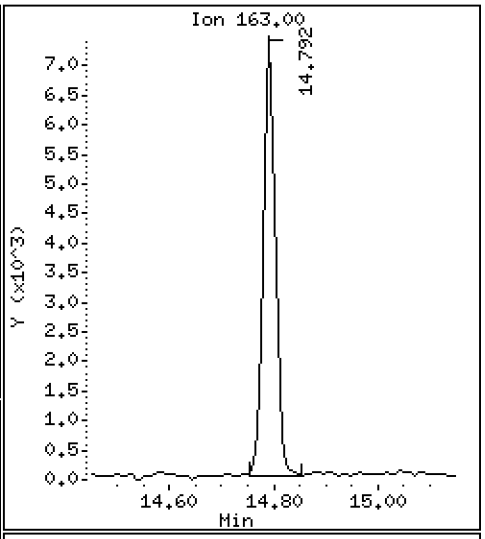
Column phase: ZB-5msi

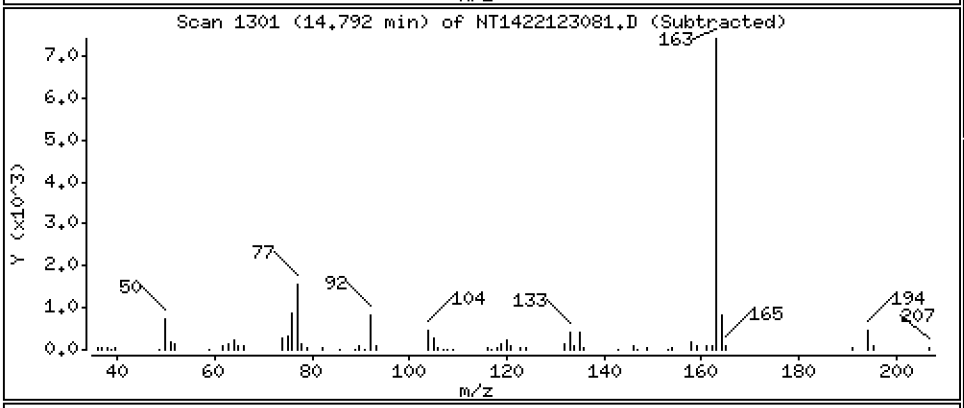
Column diameter: 0.25

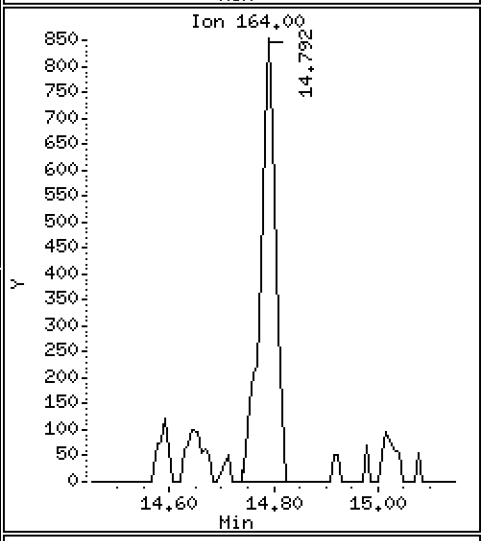
39 Dimethylphthalate

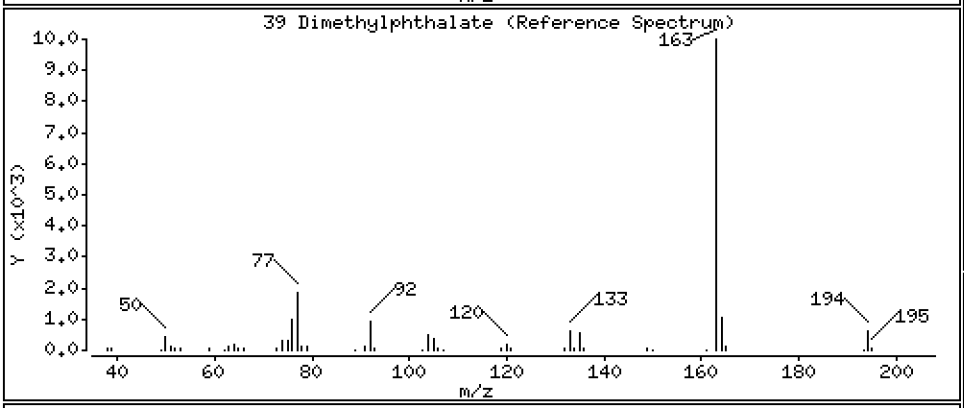
Concentration: 0.2551 ug/mL

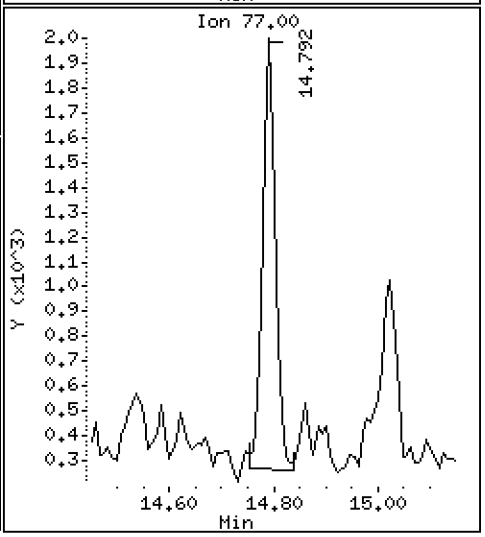


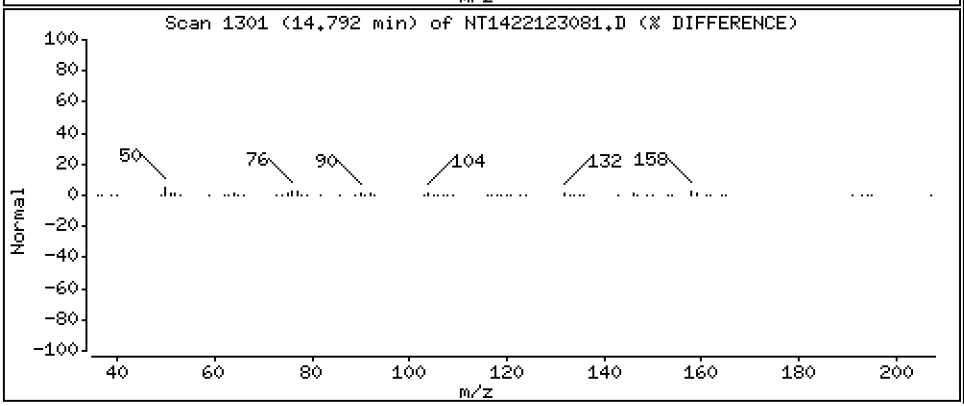












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123081.D

Date : 01-JAN-2023 08:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-11

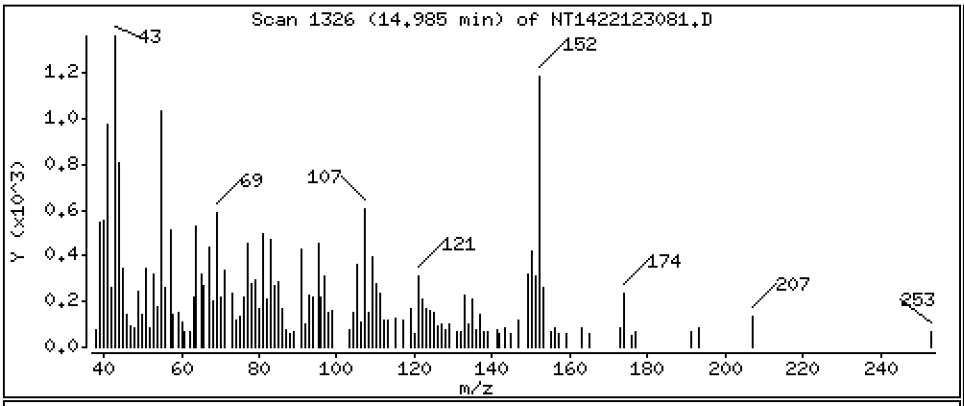
Operator: VTS

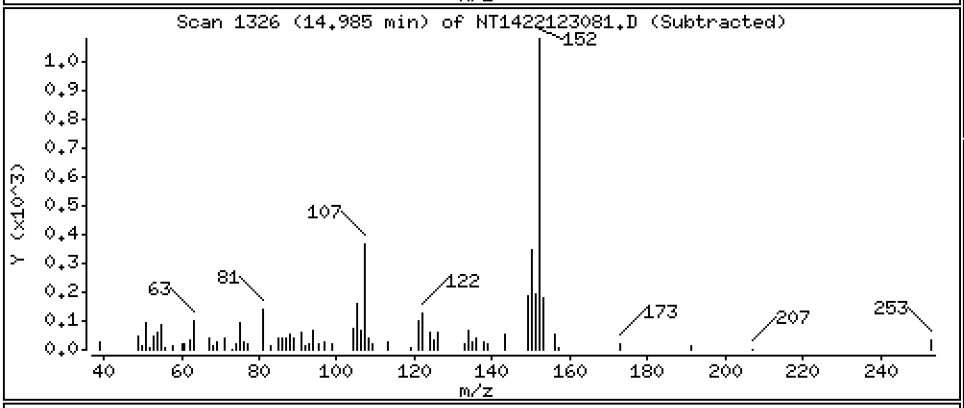
Column phase: ZB-5msi

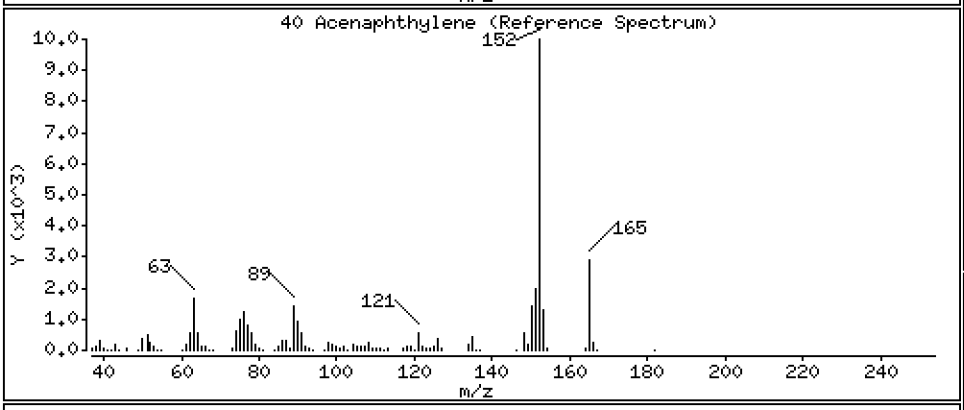
Column diameter: 0.25

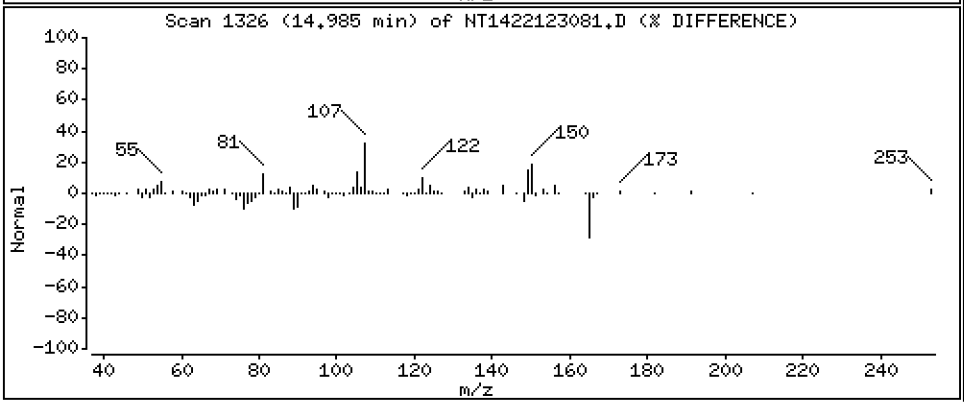
40 Acenaphthylene

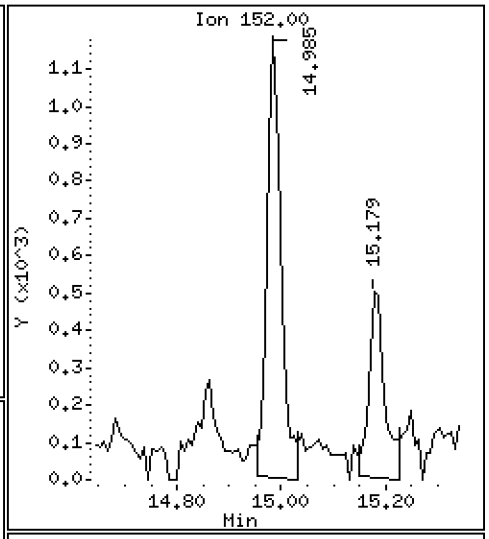
Concentration: 0.03026 ug/mL

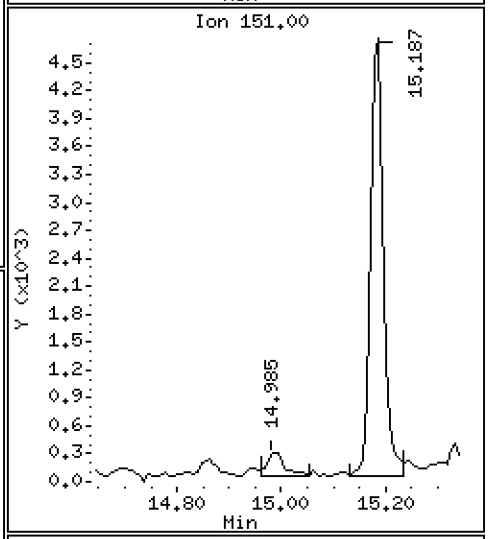


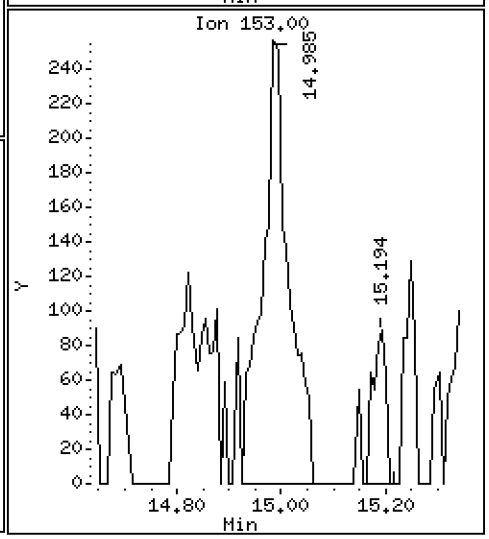












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Date : 01-JAN-2023 08:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-11

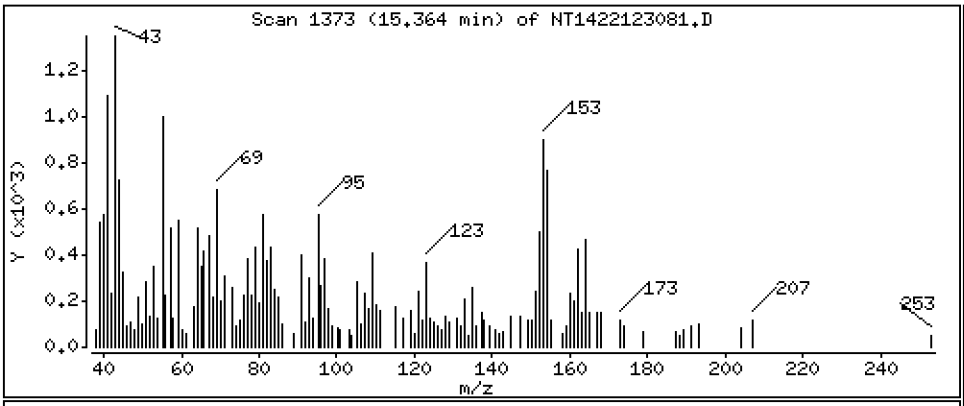
Operator: VTS

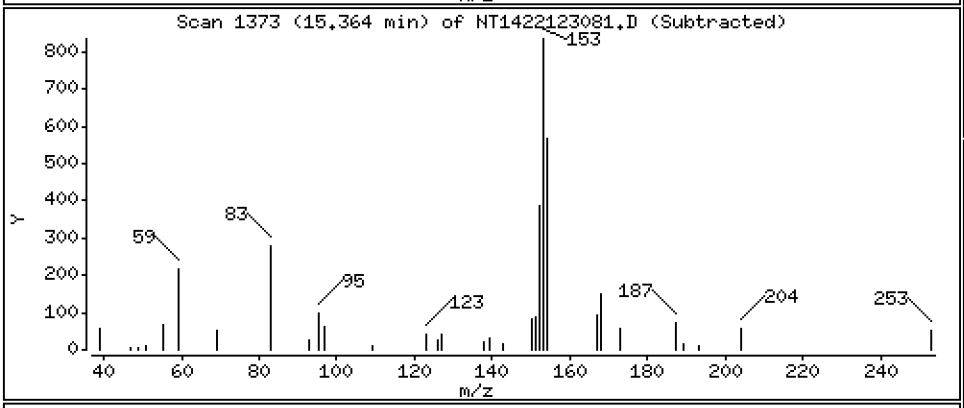
Column phase: ZB-5msi

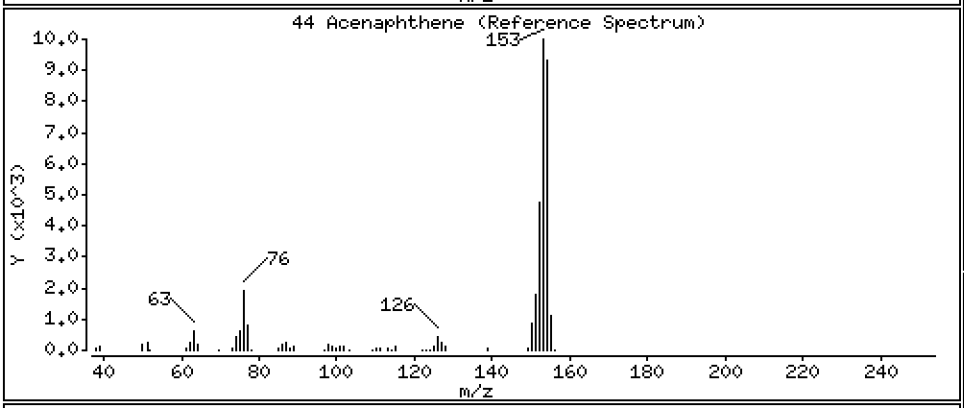
Column diameter: 0.25

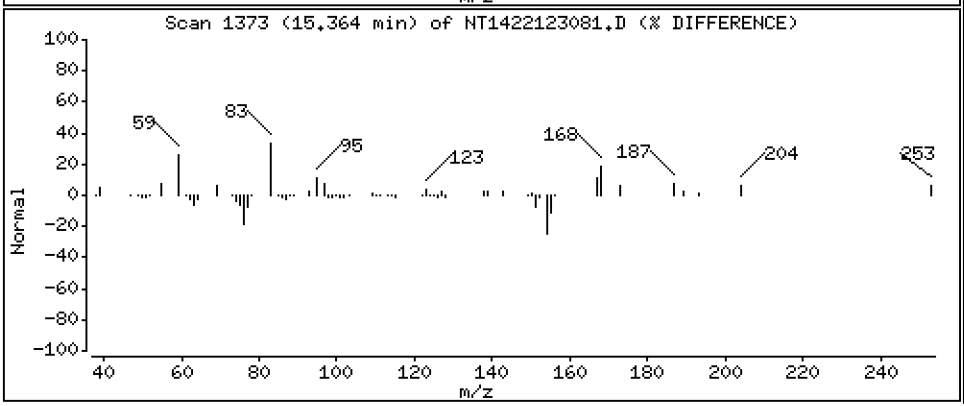
44 Acenaphthene

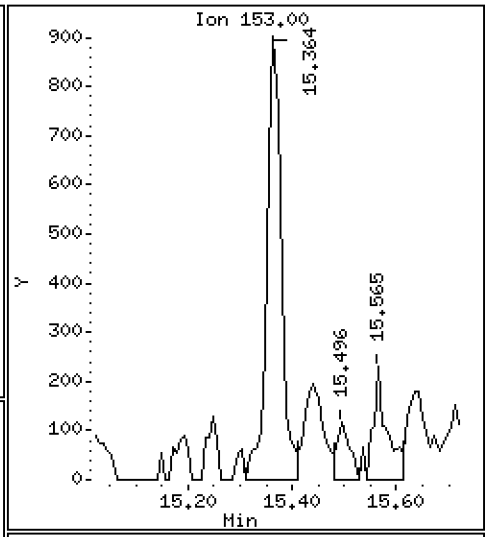
Concentration: 0.03845 ug/mL

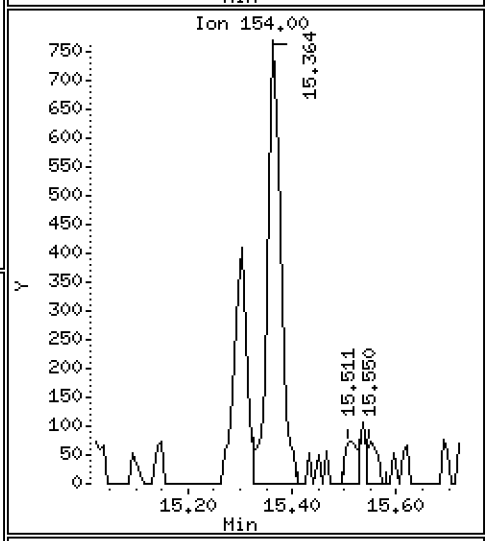


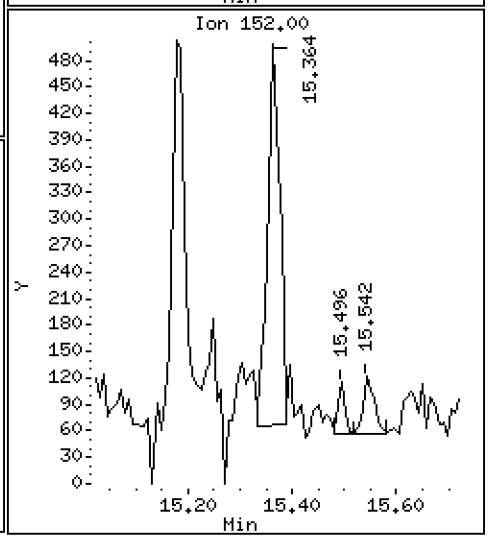












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Date : 01-JAN-2023 08:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-11

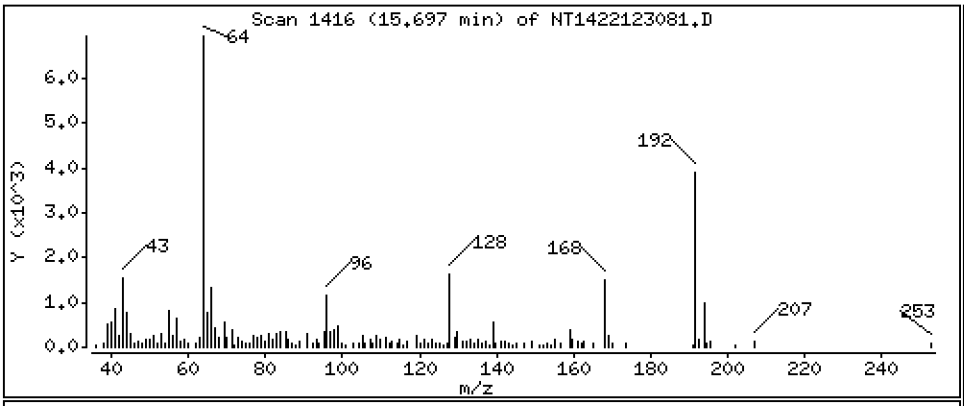
Operator: VTS

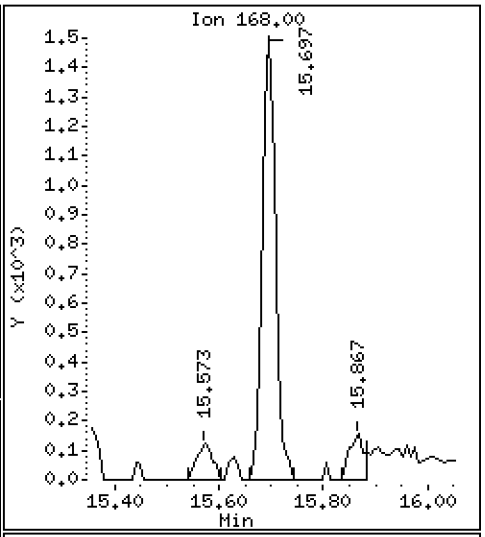
Column phase: ZB-5msi

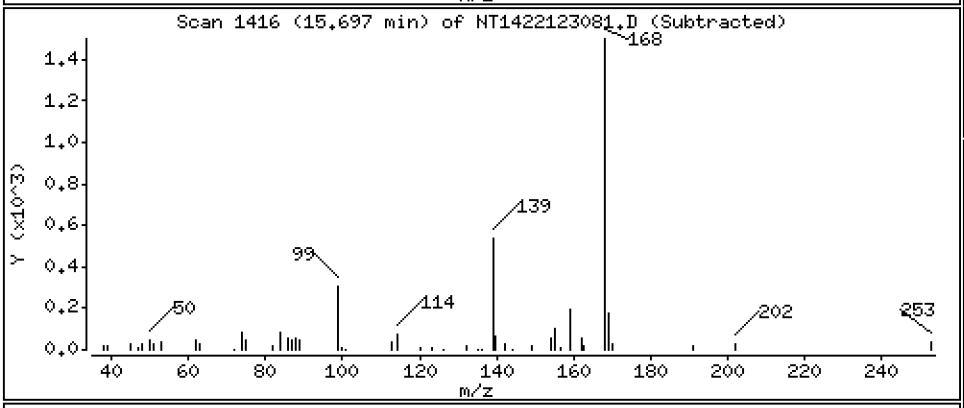
Column diameter: 0.25

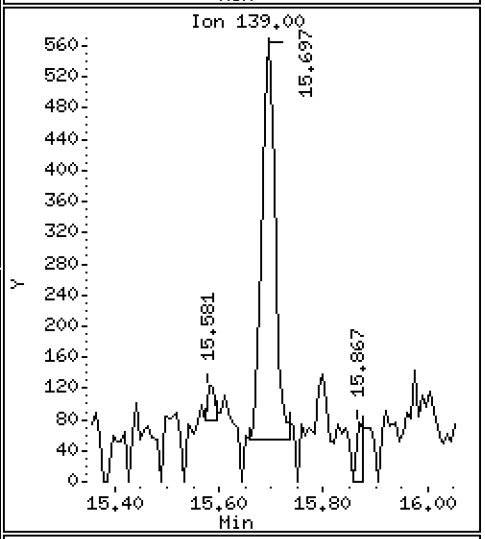
46 Dibenzofuran

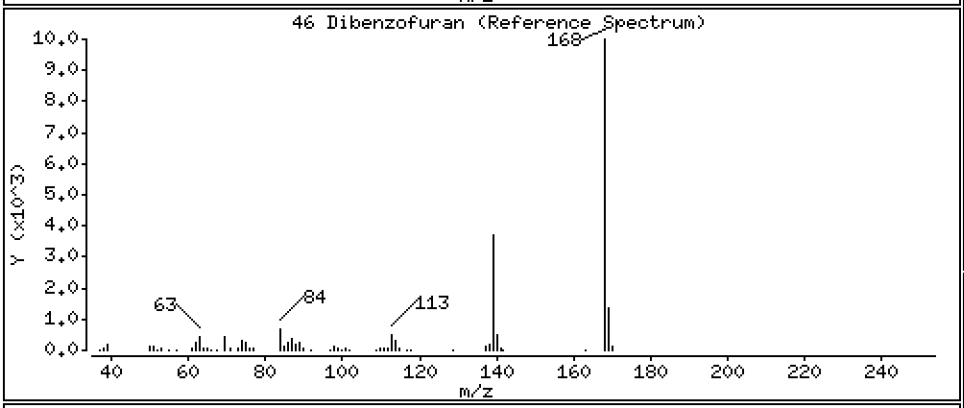
Concentration: 0.03865 ug/mL

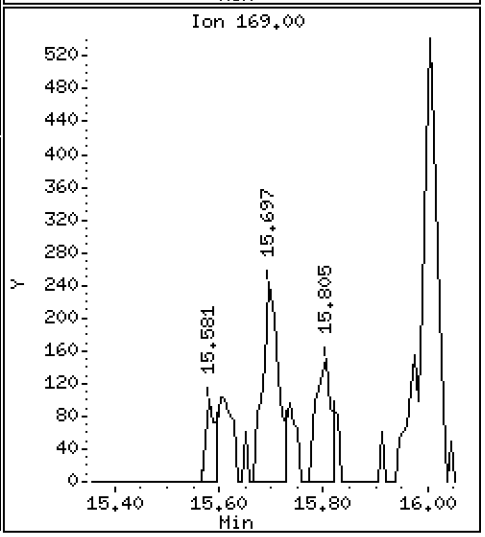


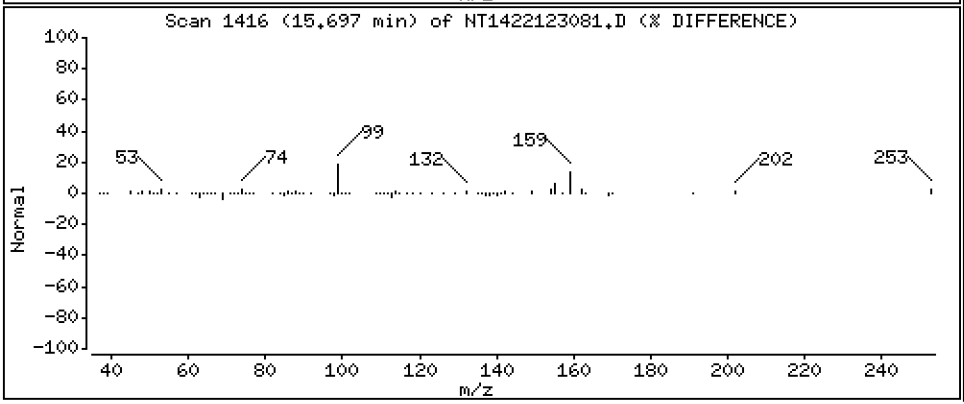












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Date : 01-JAN-2023 08:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-11

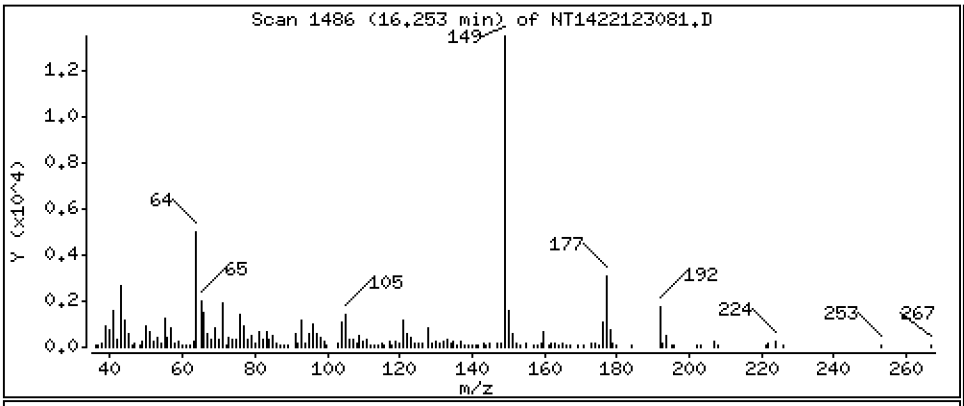
Operator: VTS

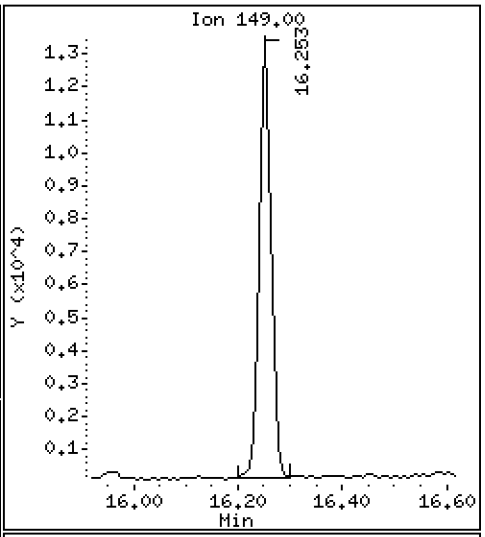
Column phase: ZB-5msi

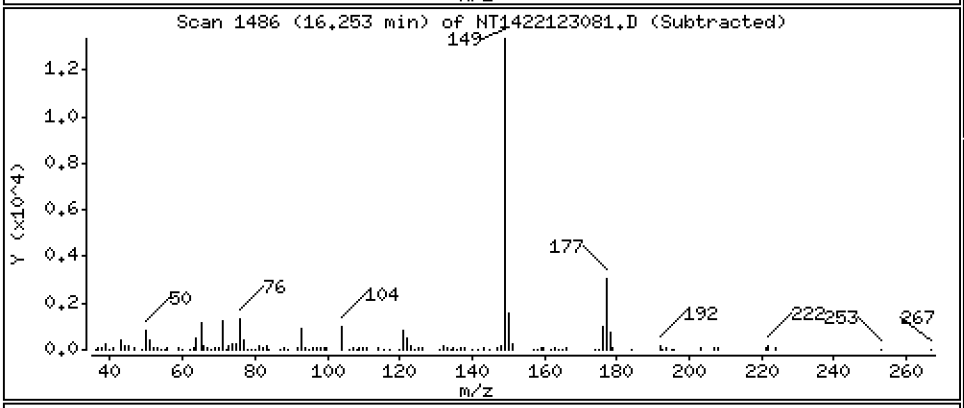
Column diameter: 0.25

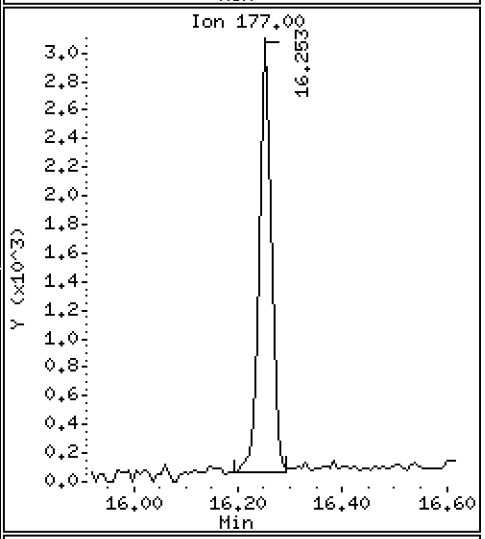
50 Diethylphthalate

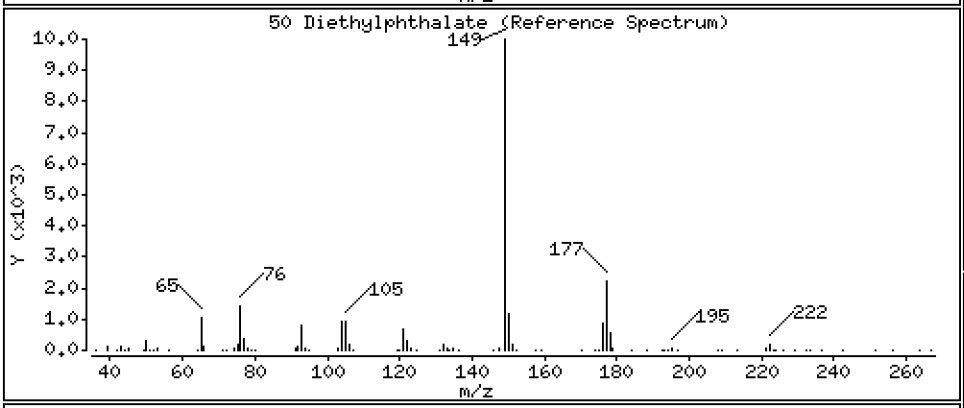
Concentration: 0.3928 ug/mL

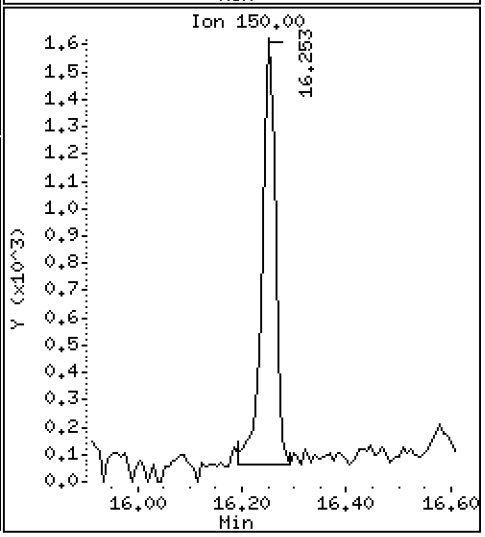


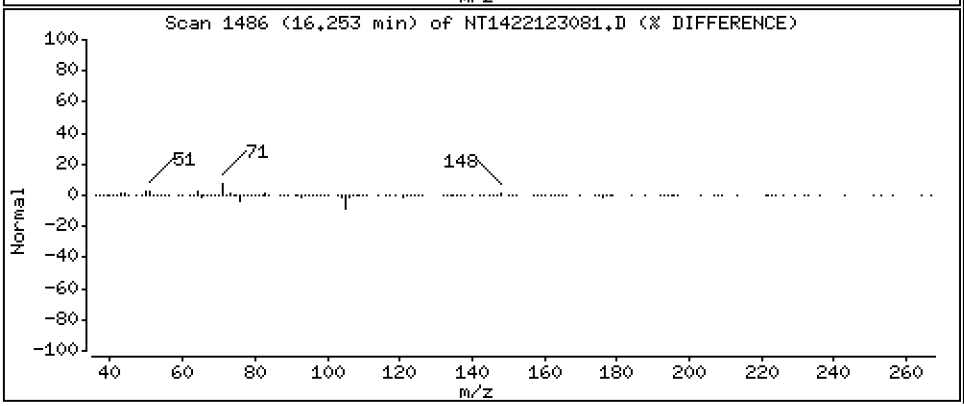












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Date : 01-JAN-2023 08:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-11

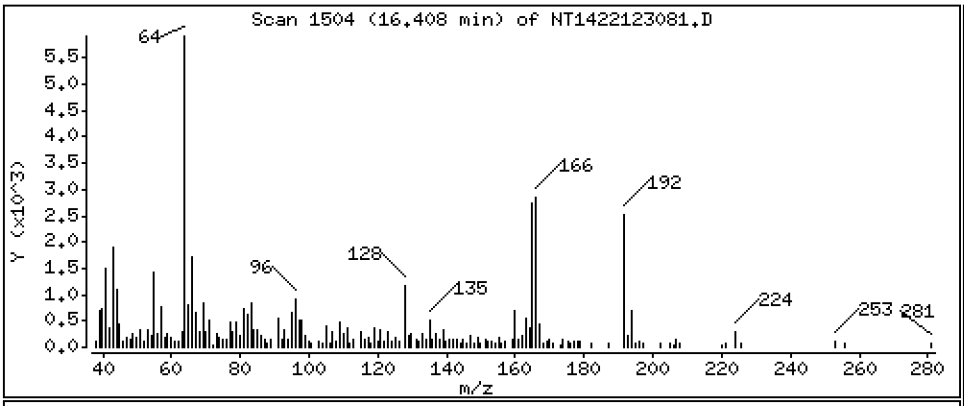
Operator: VTS

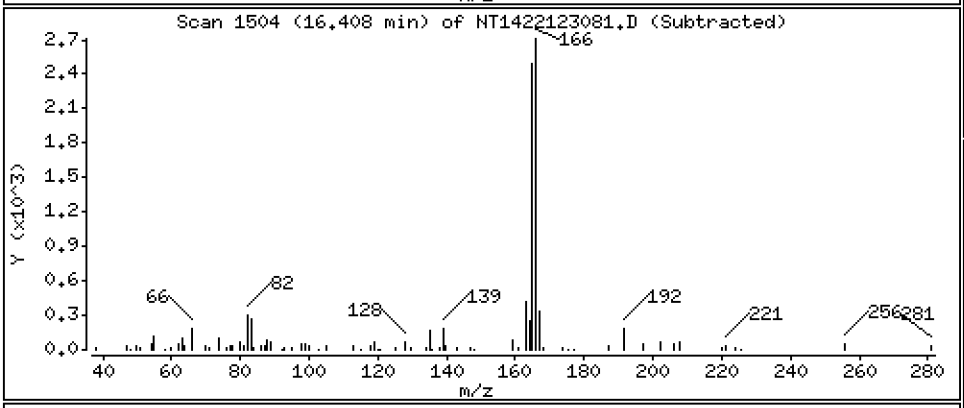
Column phase: ZB-5msi

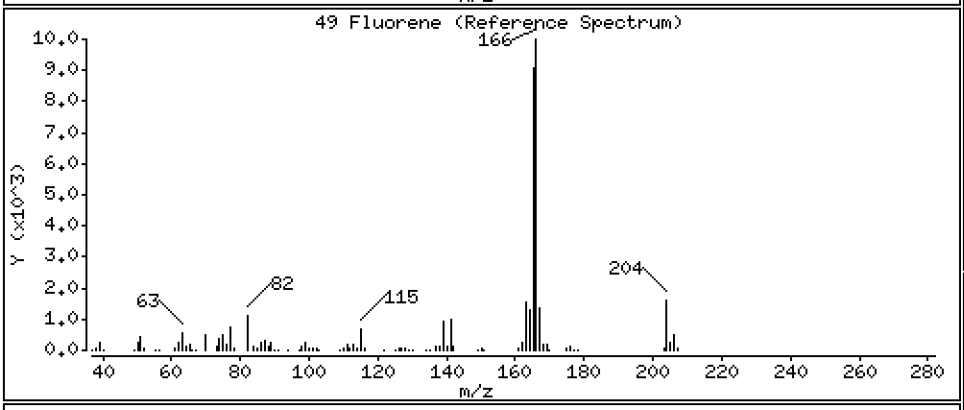
Column diameter: 0.25

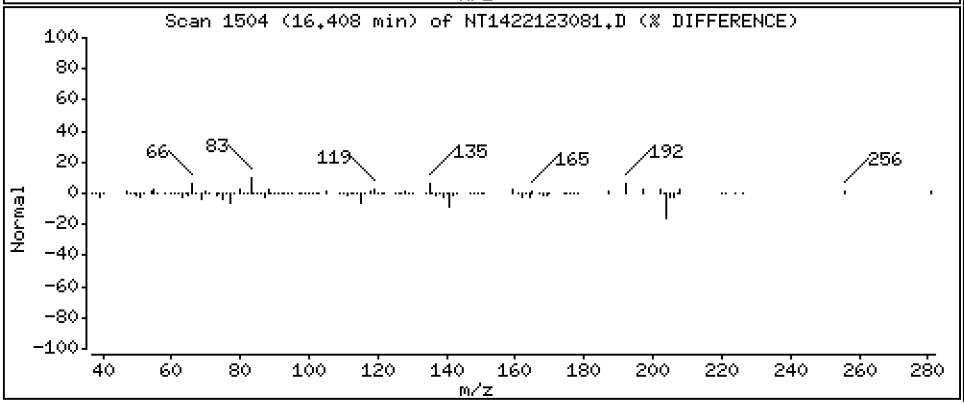
49 Fluorene

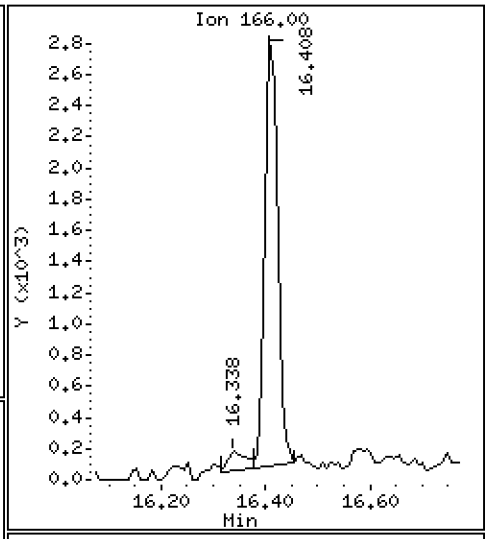
Concentration: 0.06368 ug/mL

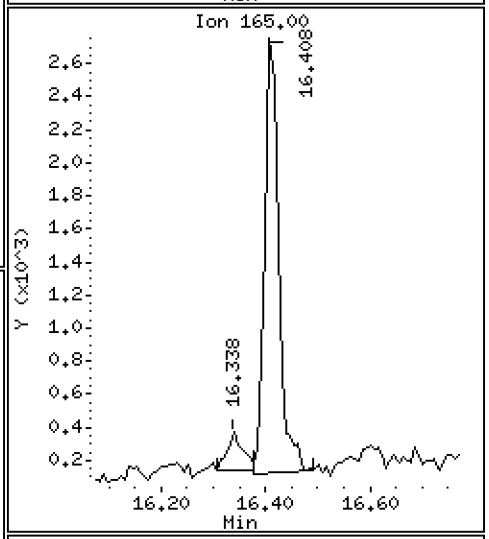


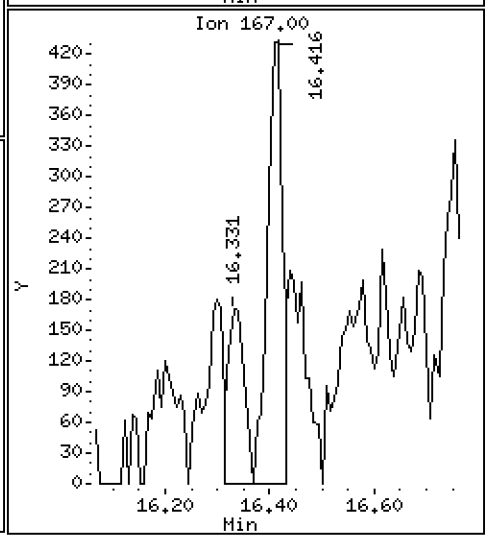












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Date : 01-JAN-2023 08:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-11

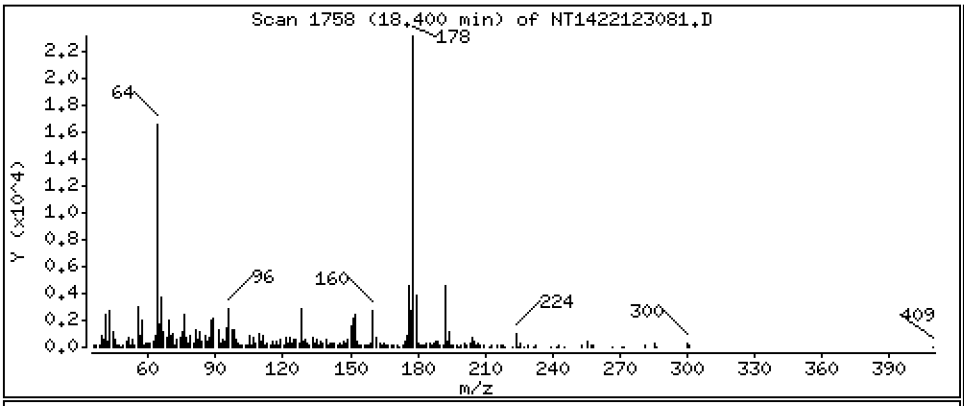
Operator: VTS

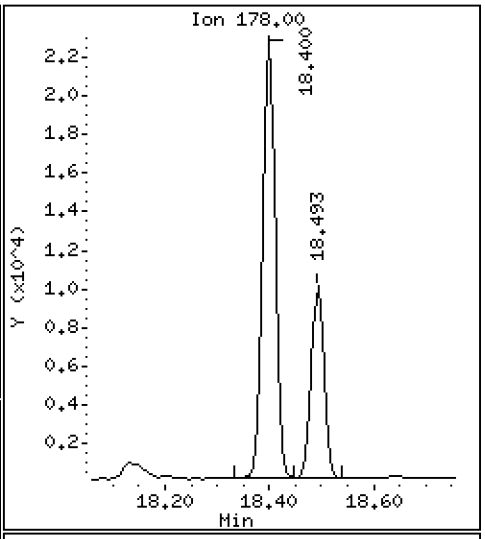
Column phase: ZB-5msi

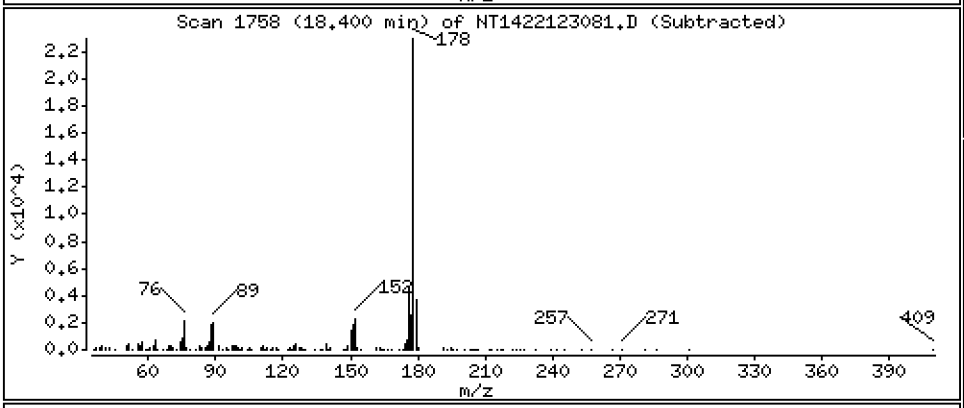
Column diameter: 0.25

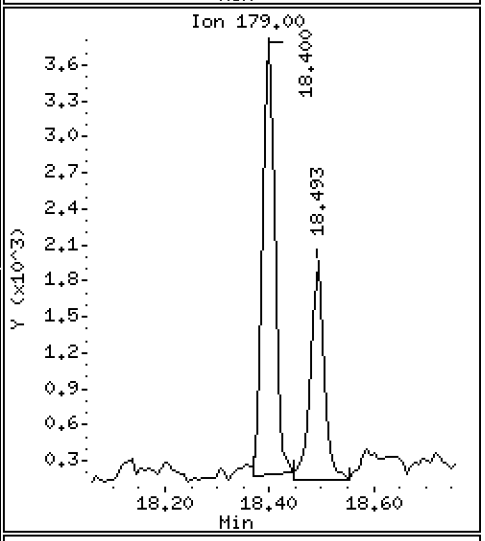
60 Phenanthrene

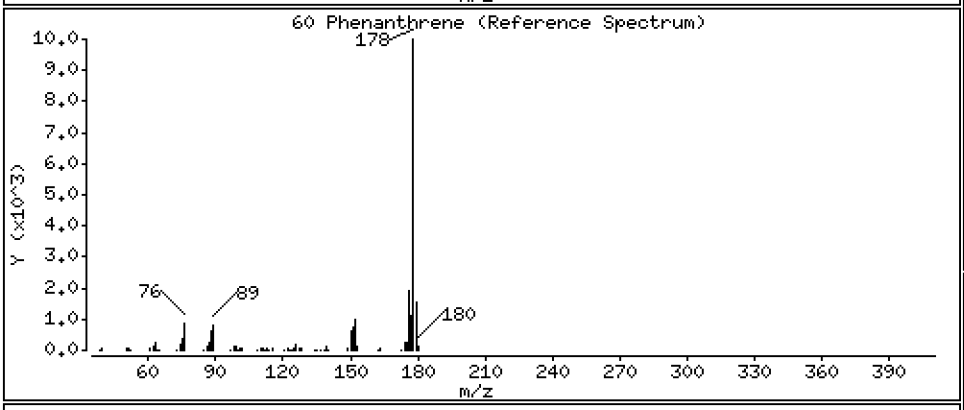
Concentration: 0.5152 ug/mL

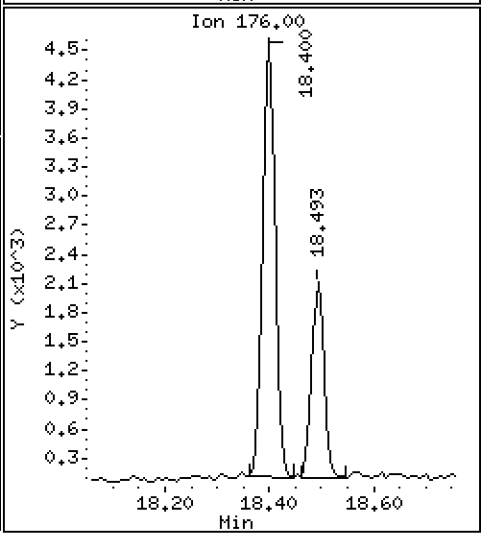


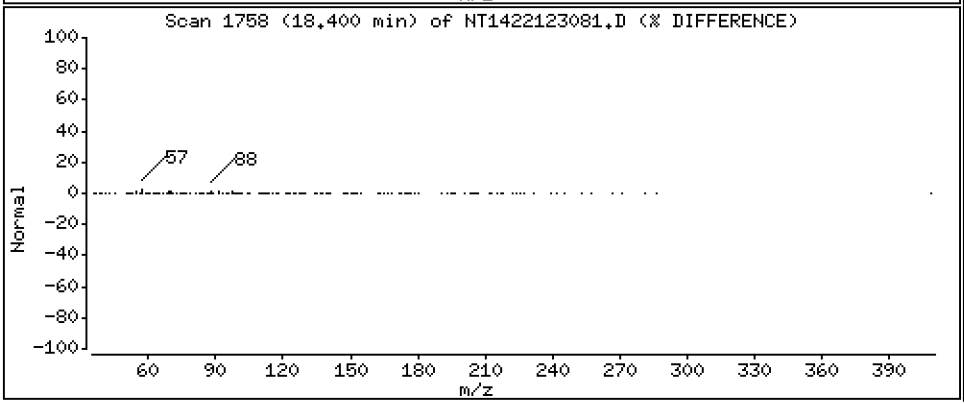












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Date : 01-JAN-2023 08:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-11

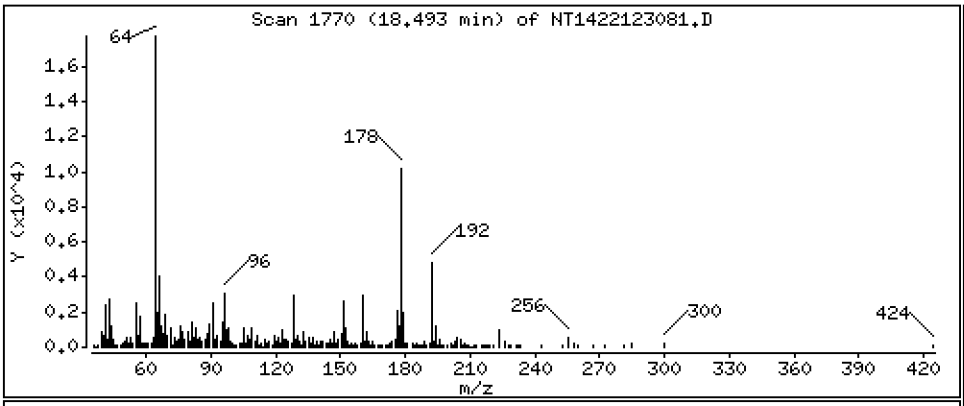
Operator: VTS

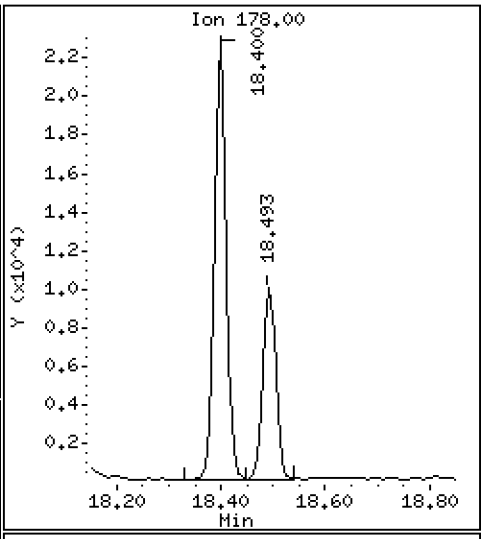
Column phase: ZB-5msi

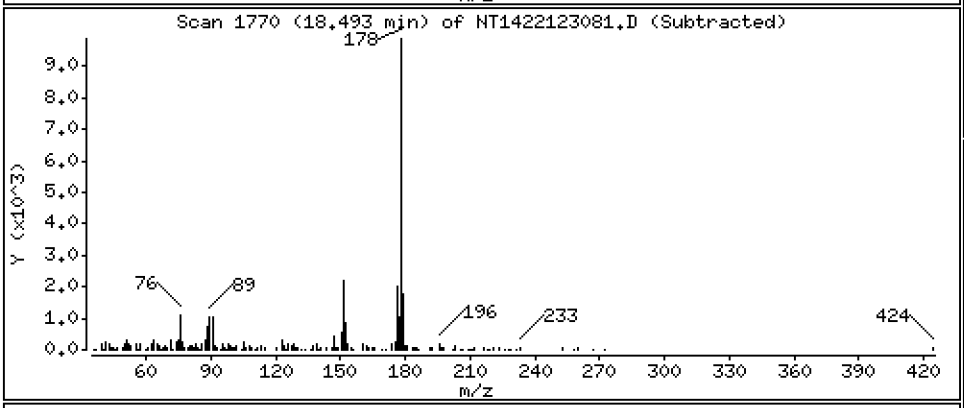
Column diameter: 0.25

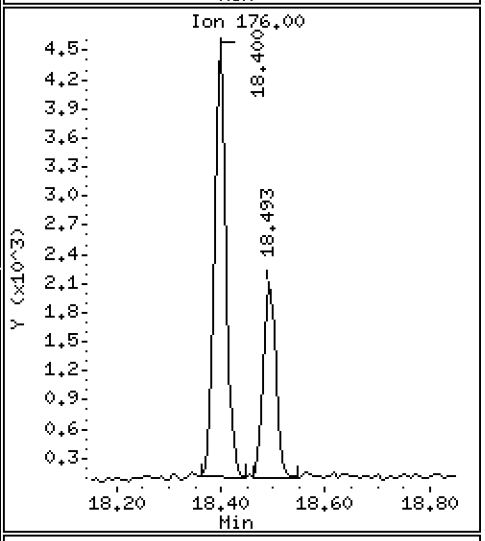
61 Anthracene

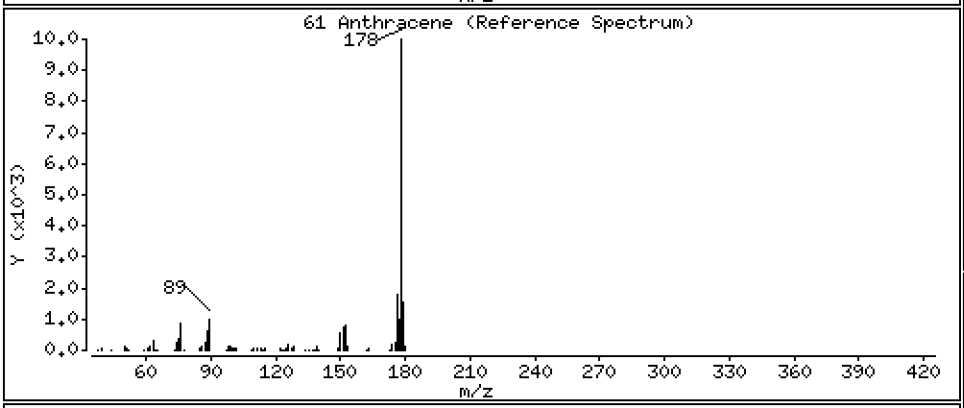
Concentration: 0.2412 ug/mL

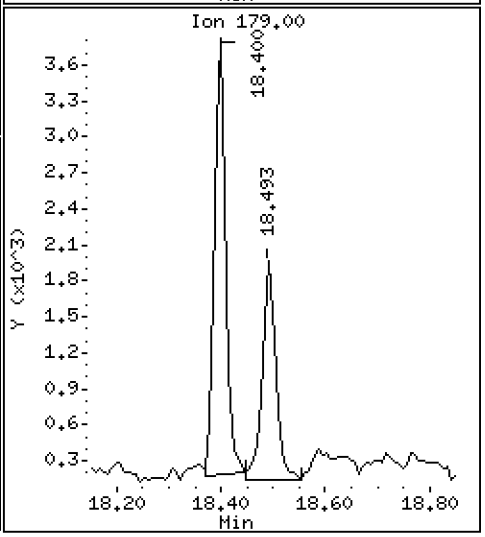


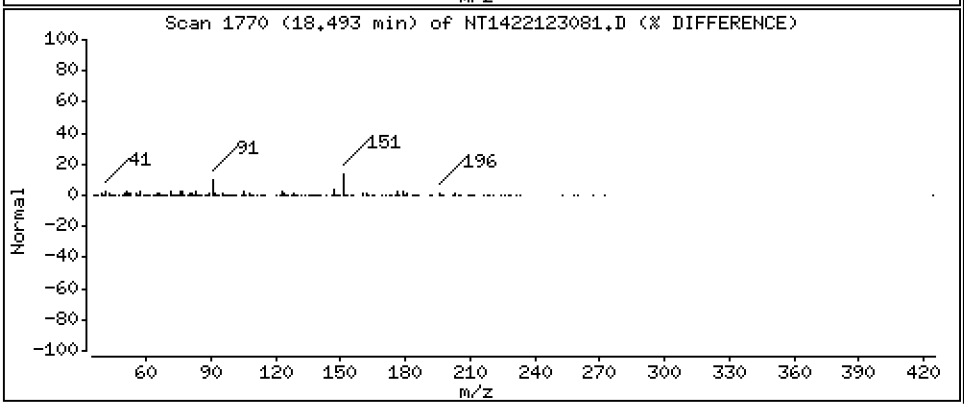












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123081.D

Date : 01-JAN-2023 08:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-11

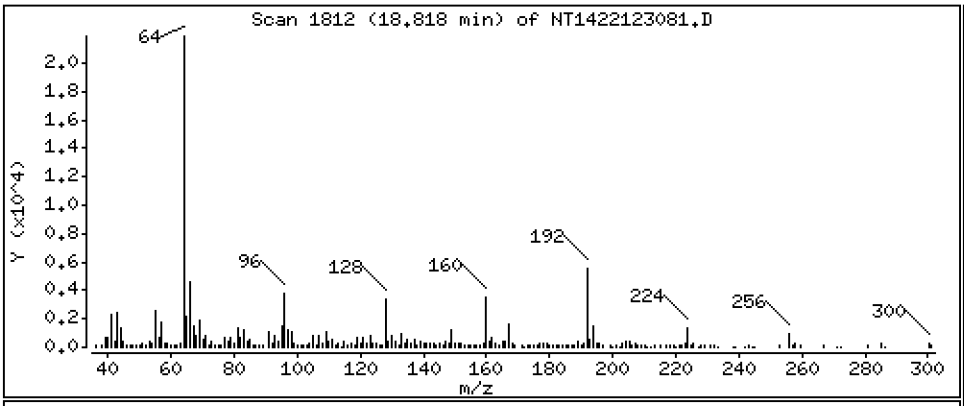
Operator: VTS

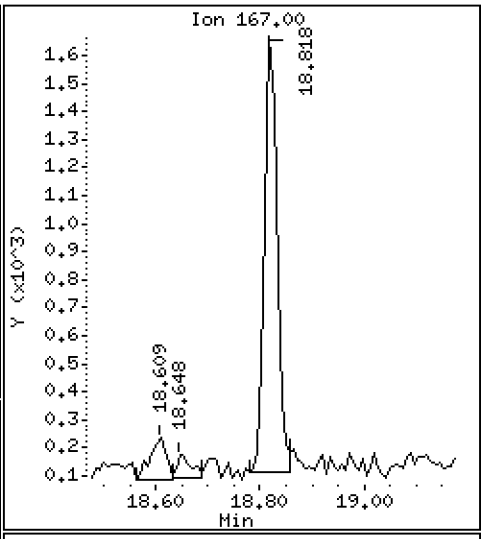
Column phase: ZB-5msi

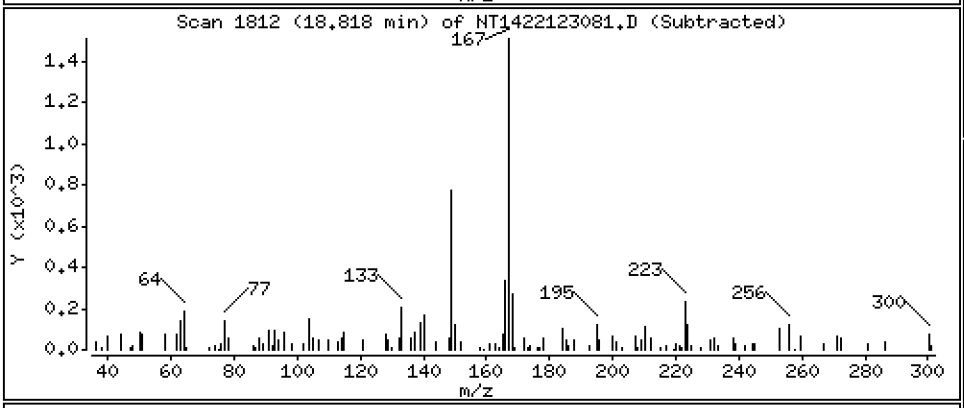
Column diameter: 0.25

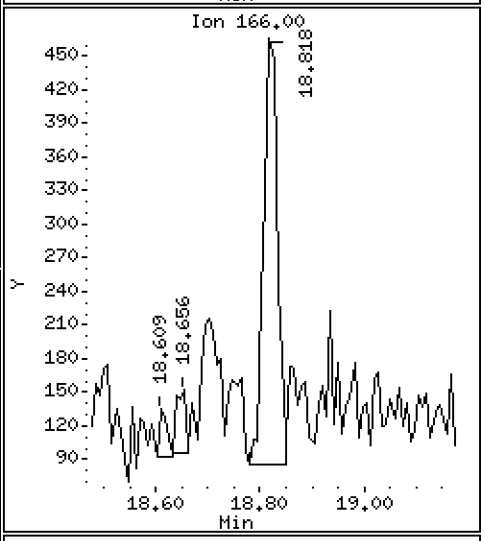
62 Carbazole

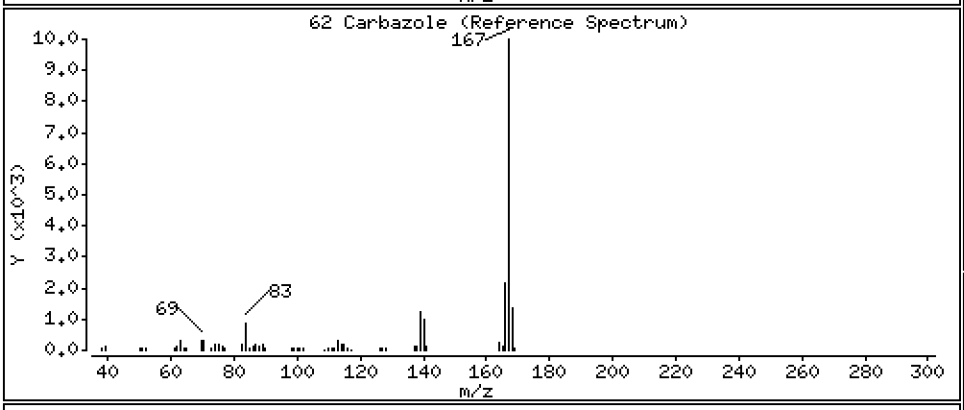
Concentration: 0.03817 ug/mL

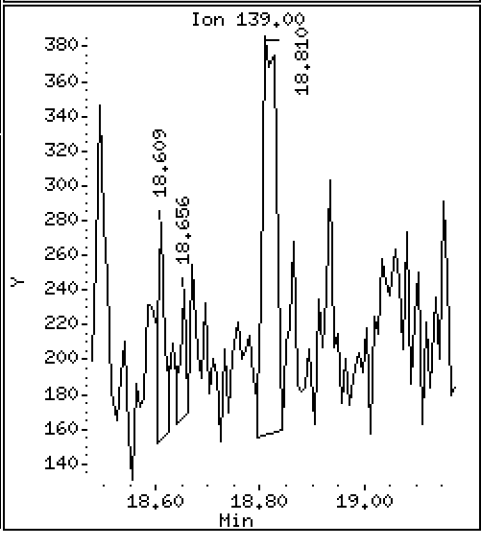


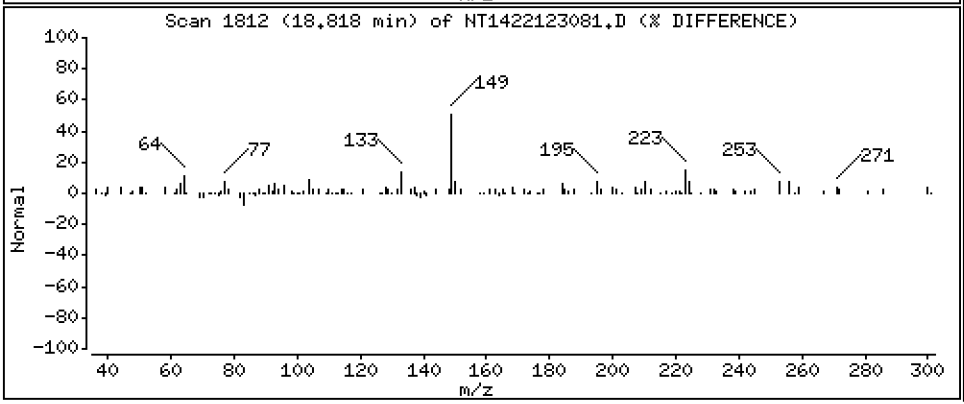












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Date : 01-JAN-2023 08:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-11

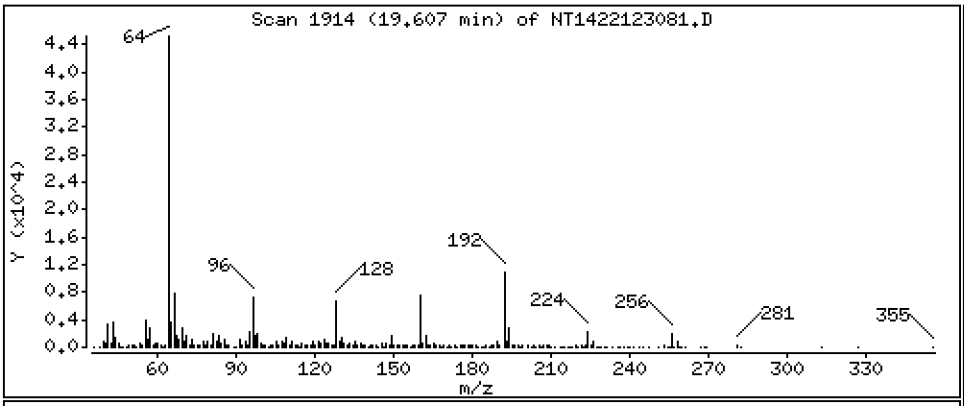
Operator: VTS

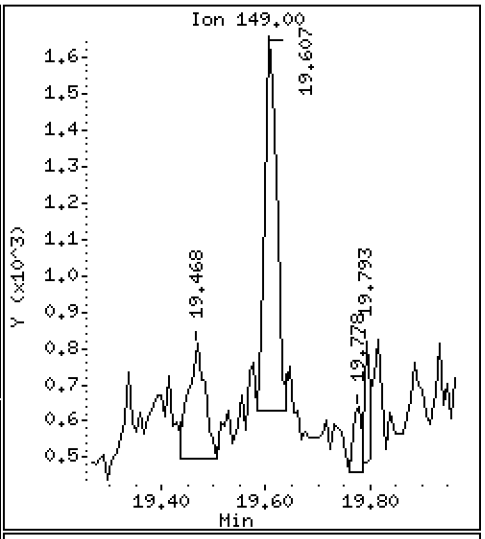
Column phase: ZB-5msi

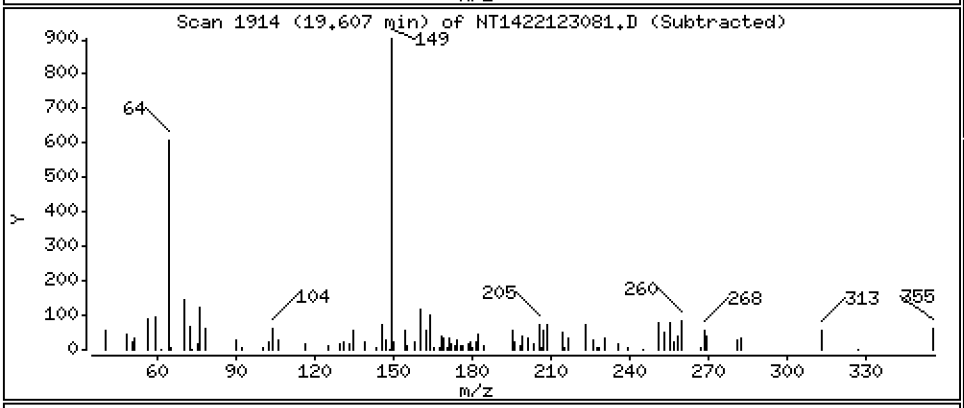
Column diameter: 0.25

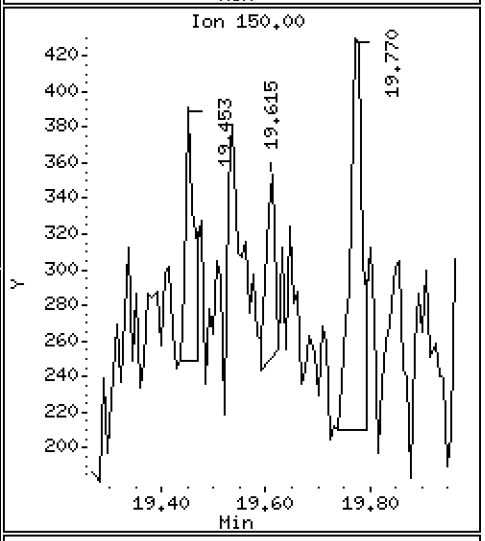
63 Di-n-butylphthalate

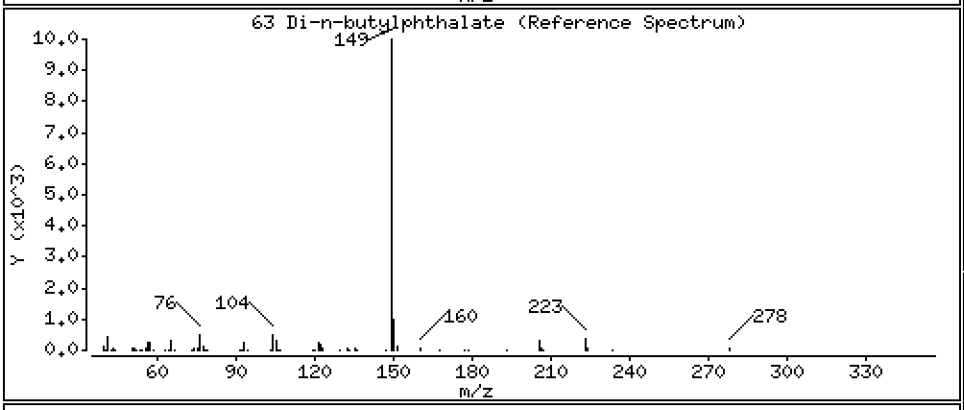
Concentration: 0.02140 ug/mL

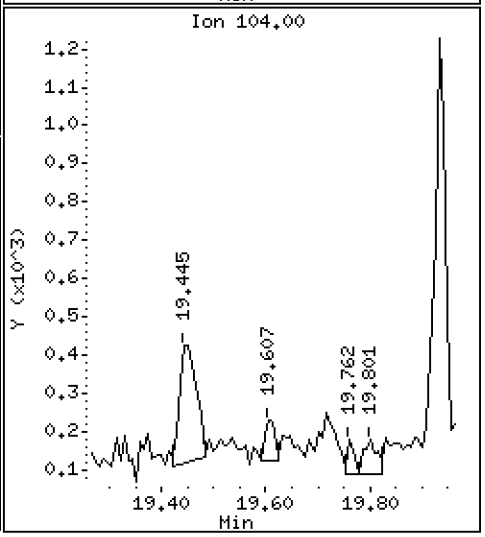


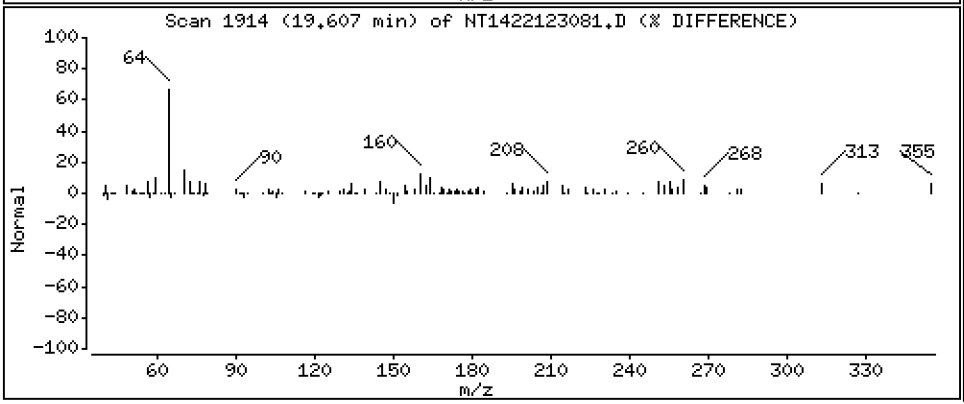












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Date : 01-JAN-2023 08:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-11

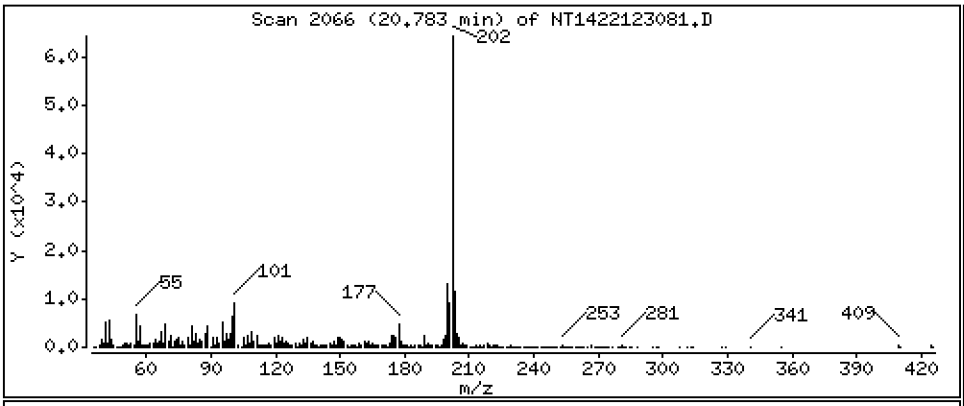
Operator: VTS

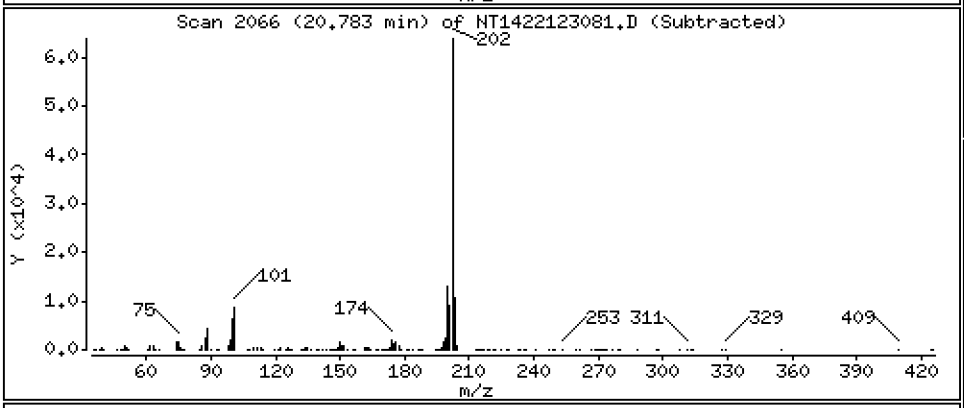
Column phase: ZB-5msi

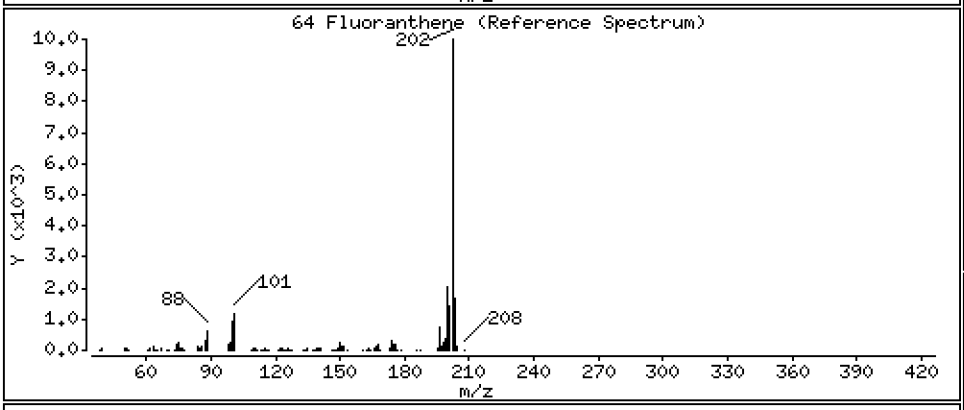
Column diameter: 0.25

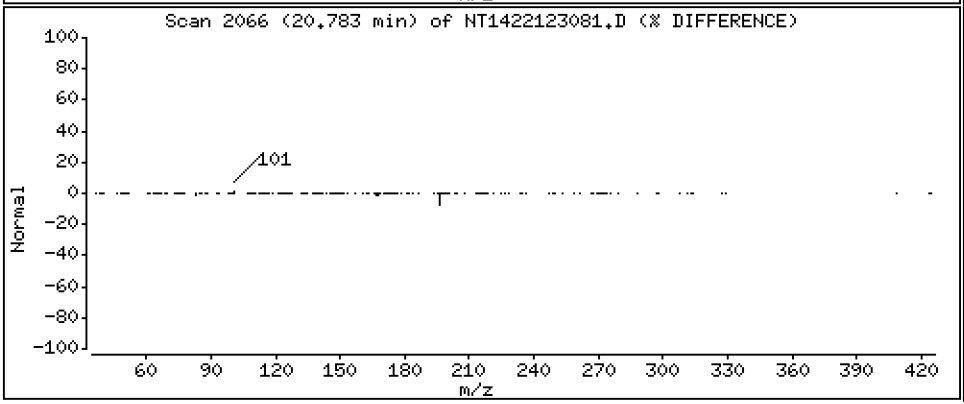
64 Fluoranthene

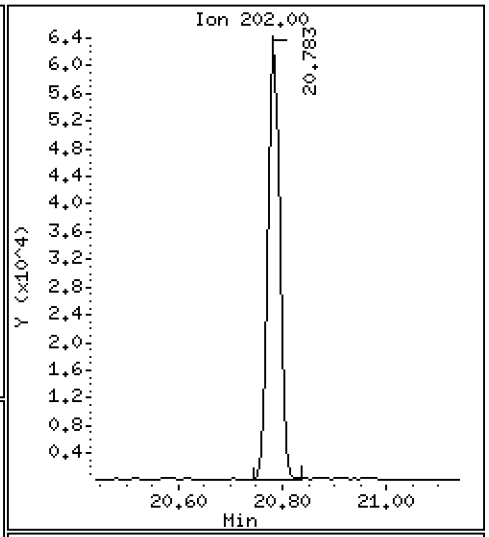
Concentration: 1.414 ug/mL

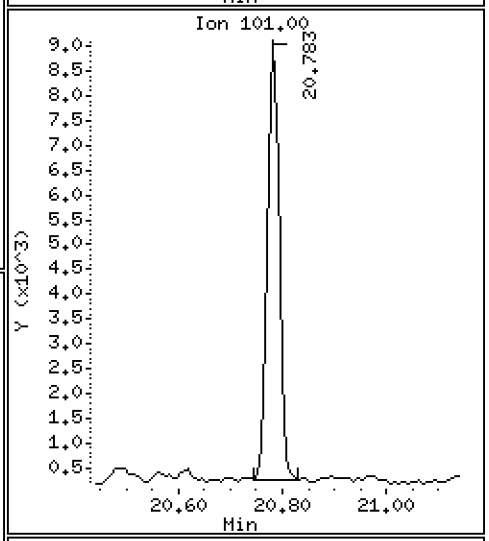


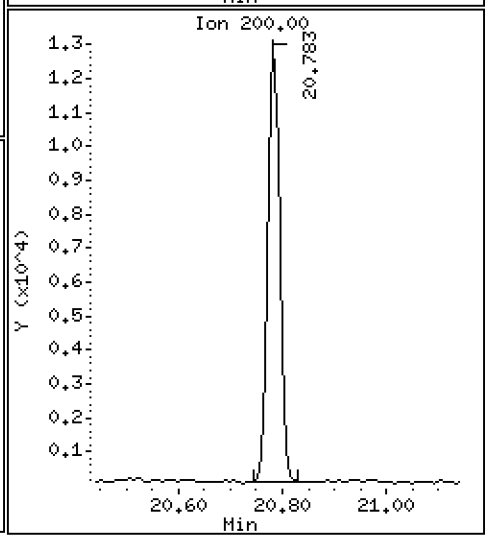












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Date : 01-JAN-2023 08:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-11

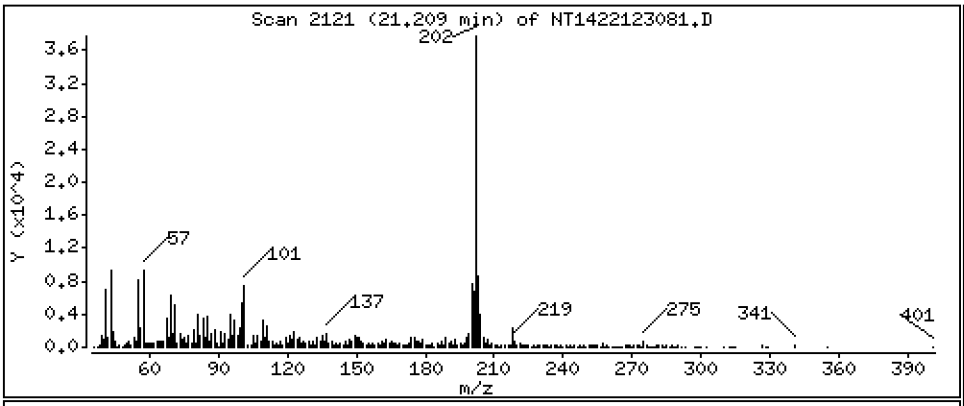
Operator: VTS

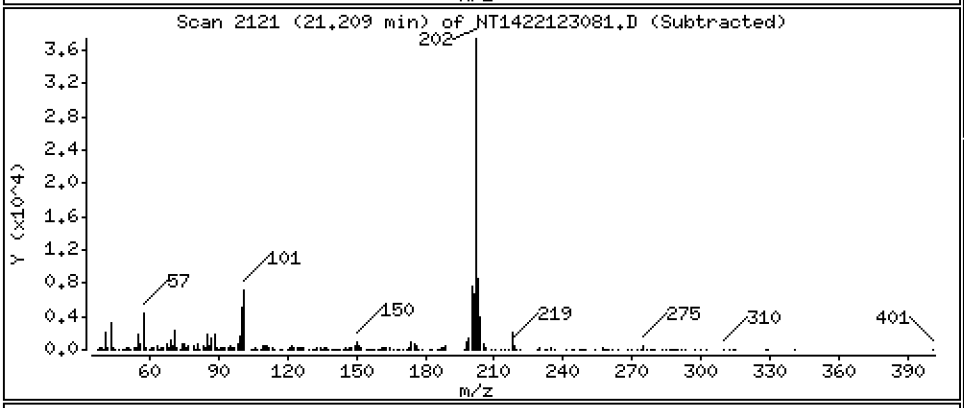
Column phase: ZB-5msi

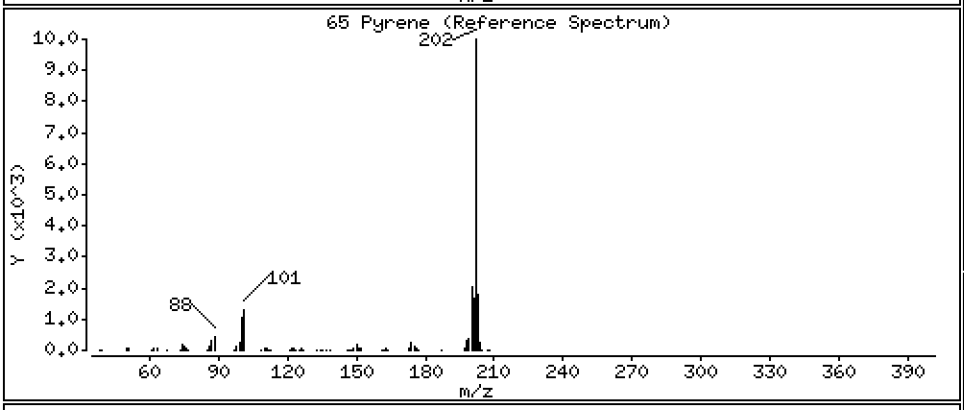
Column diameter: 0.25

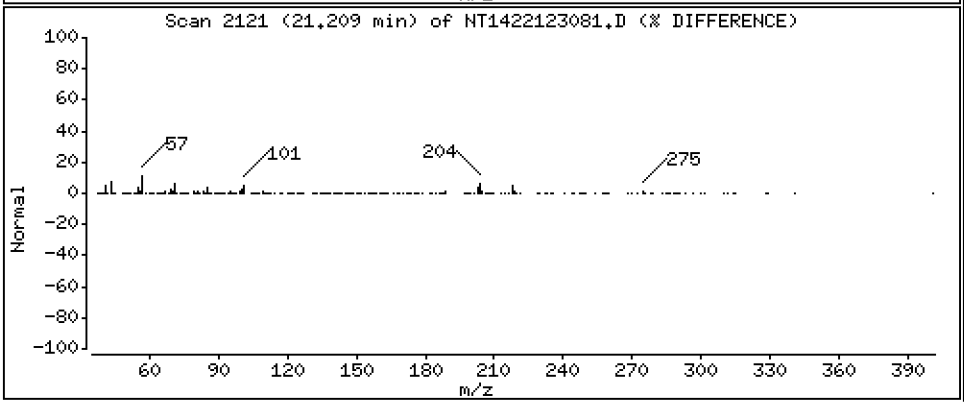
65 Pyrene

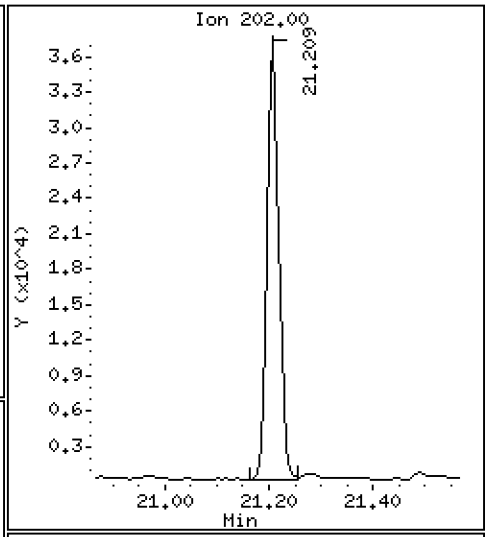
Concentration: 0.8178 ug/mL

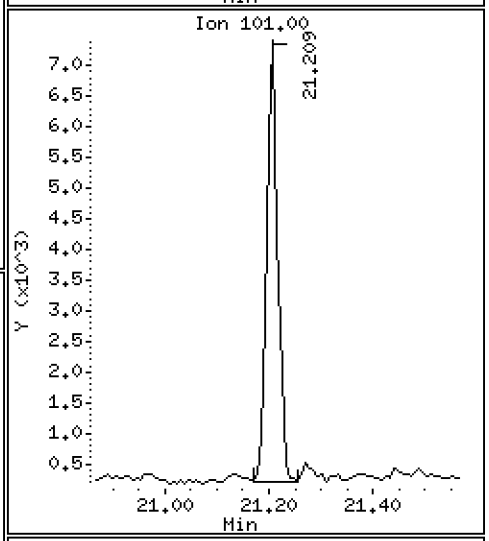


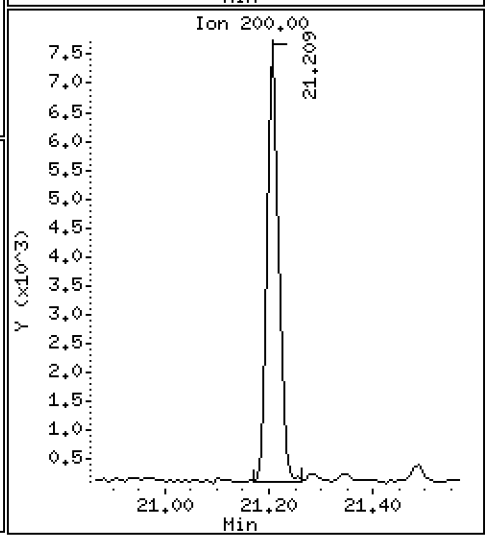












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Date : 01-JAN-2023 08:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-11

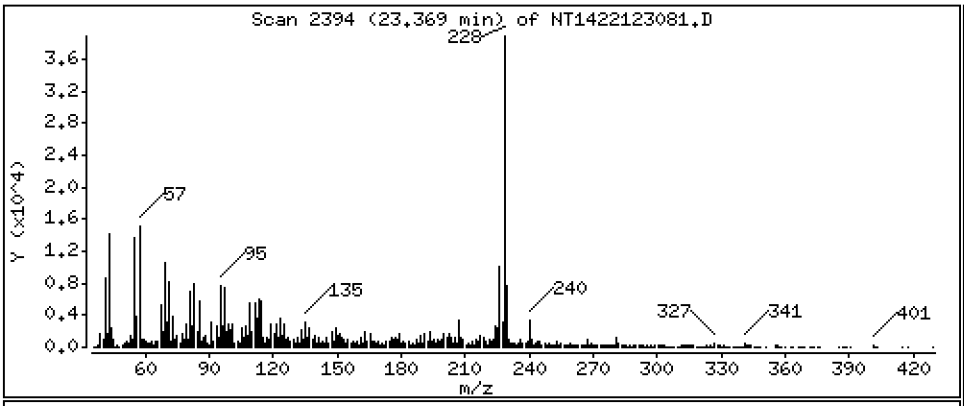
Operator: VTS

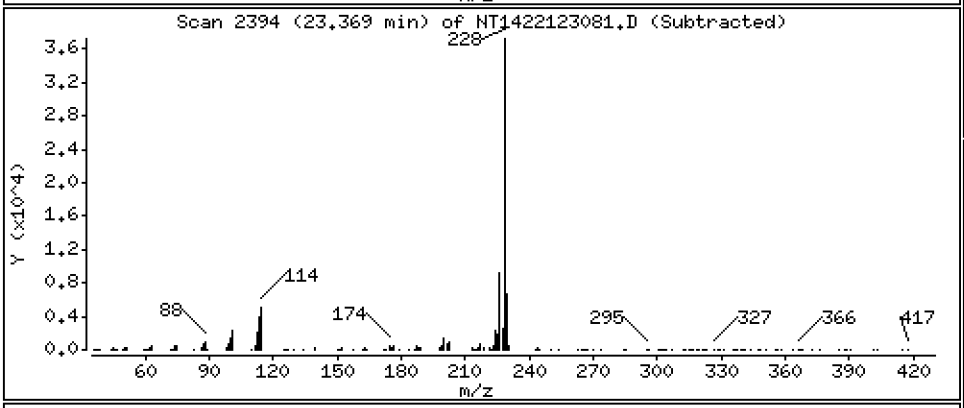
Column phase: ZB-5msi

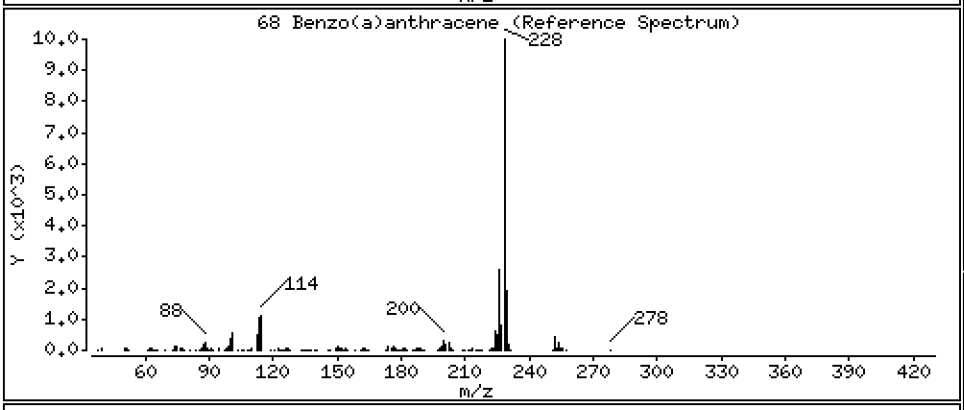
Column diameter: 0.25

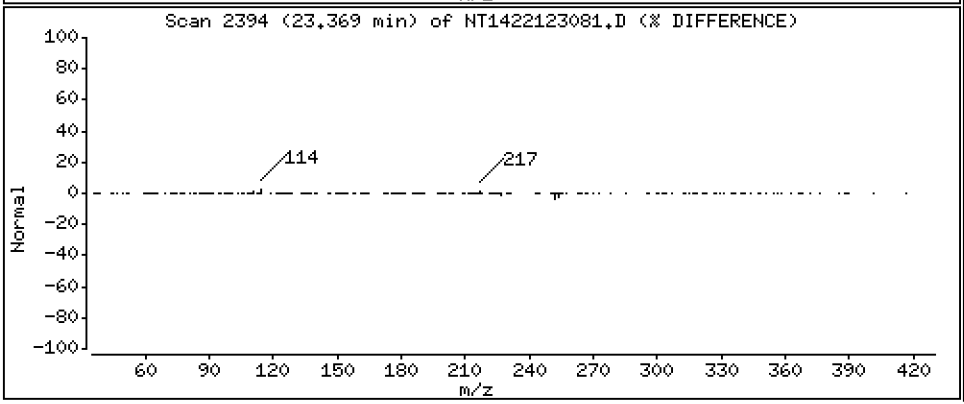
68 Benzo(a)anthracene

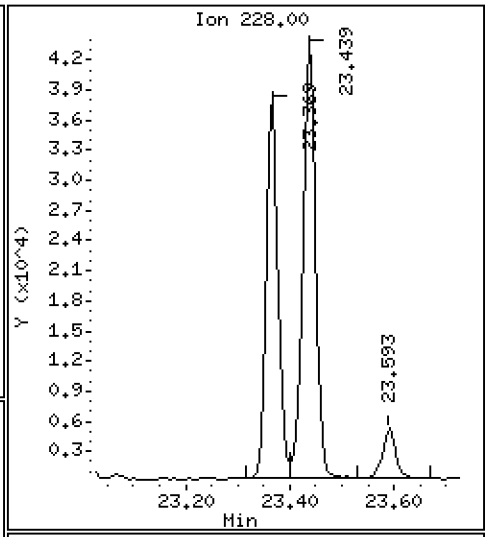
Concentration: 0.9570 ug/mL

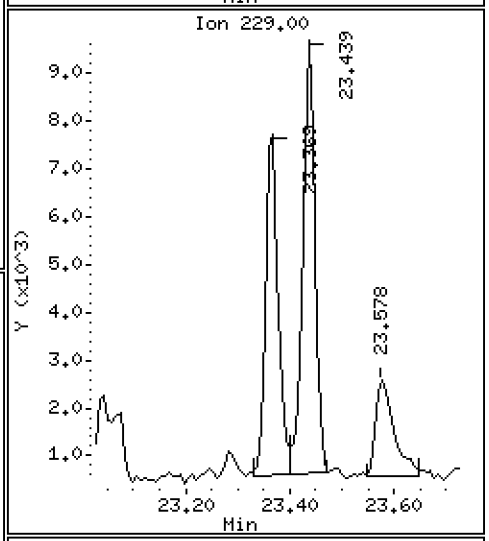


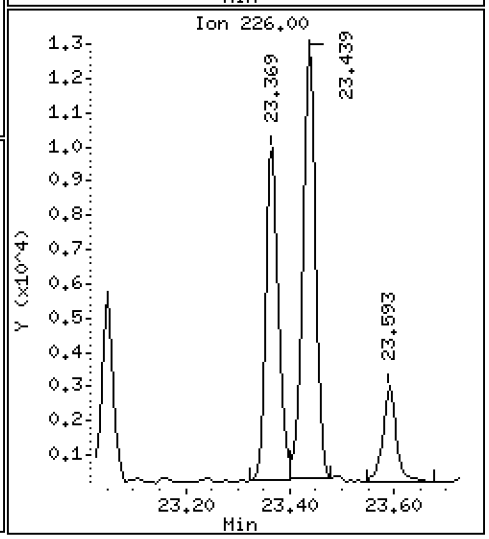












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Date : 01-JAN-2023 08:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-11

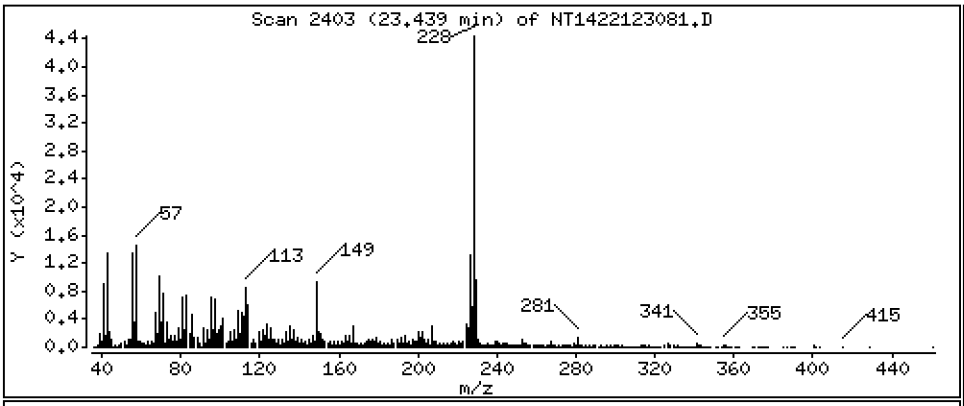
Operator: VTS

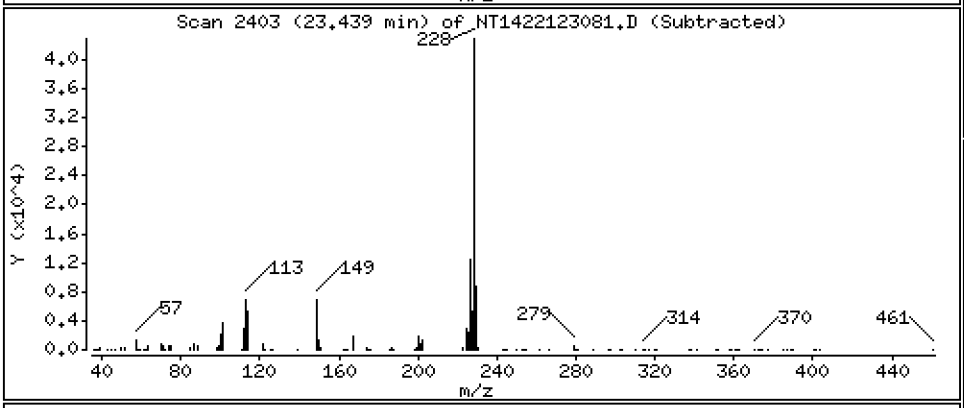
Column phase: ZB-5msi

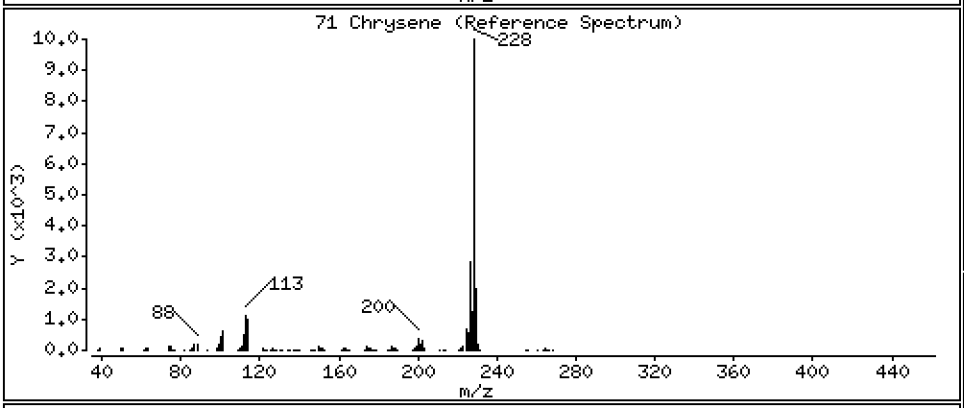
Column diameter: 0.25

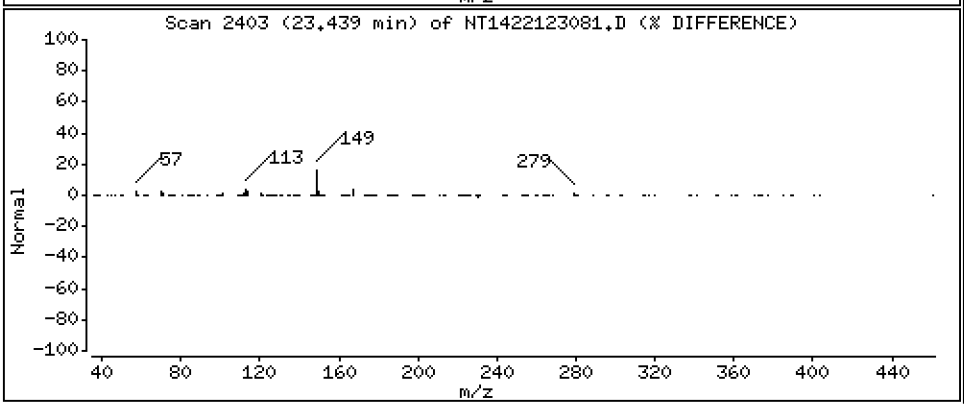
71 Chrysene

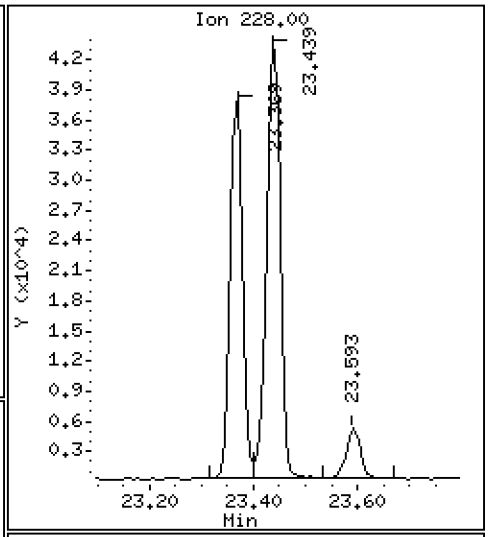
Concentration: 1.293 ug/mL

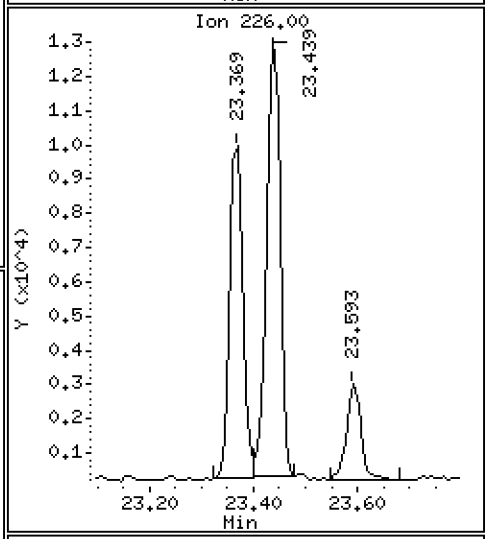


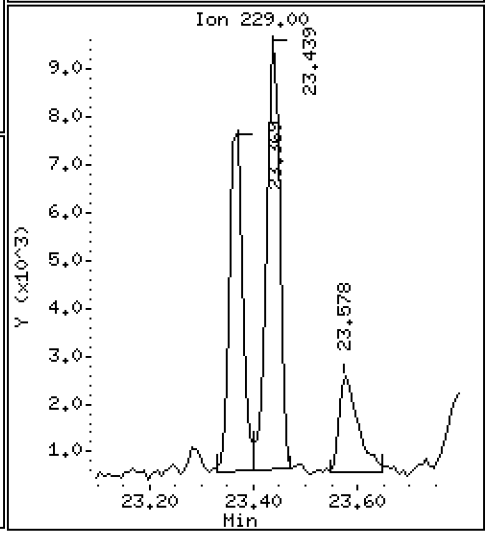












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Date : 01-JAN-2023 08:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-11

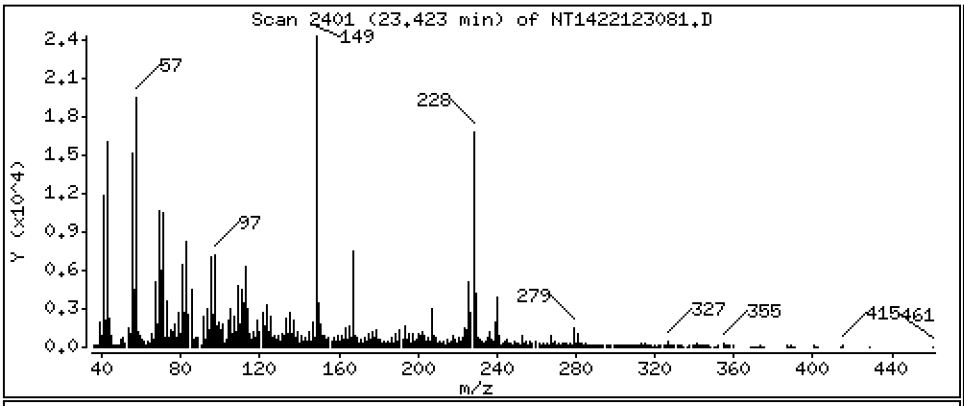
Operator: VTS

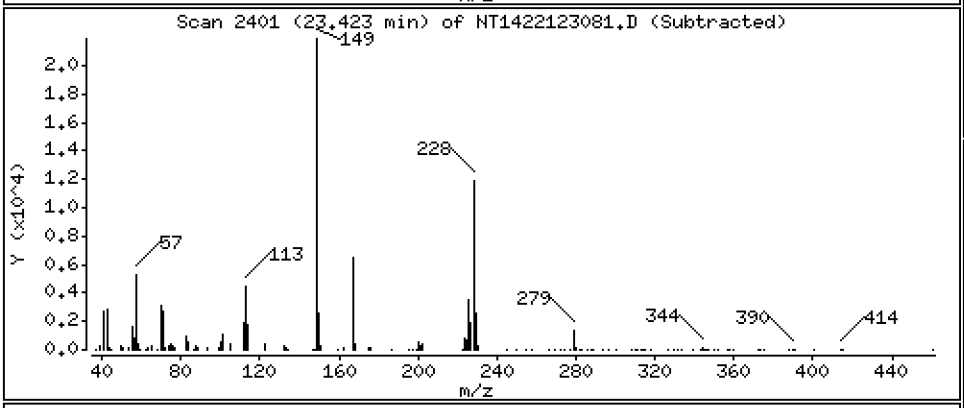
Column phase: ZB-5msi

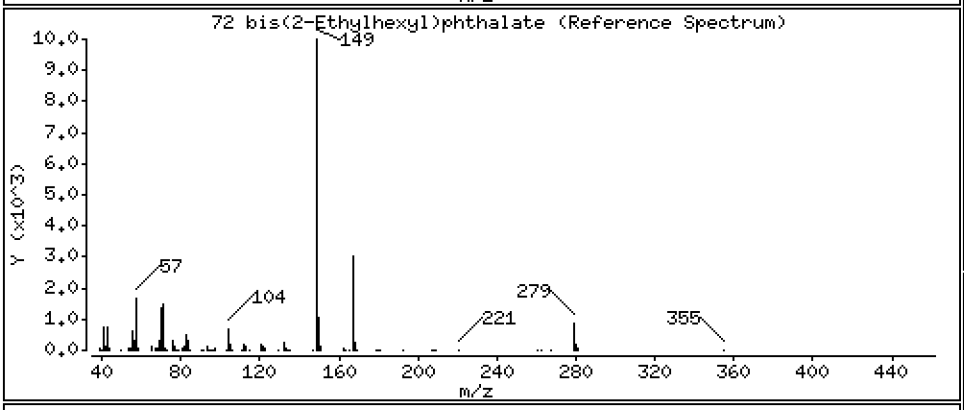
Column diameter: 0.25

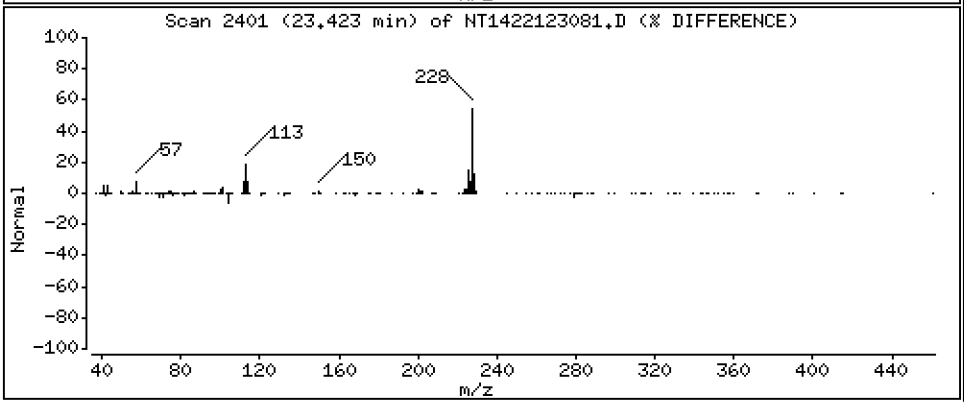
72 bis(2-Ethylhexyl)phthalate

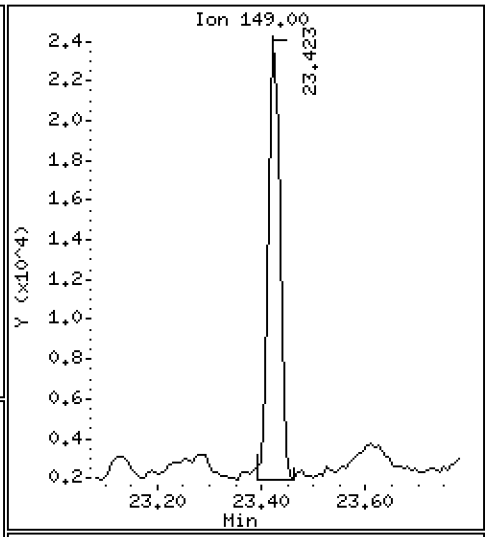
Concentration: 0.7808 ug/mL

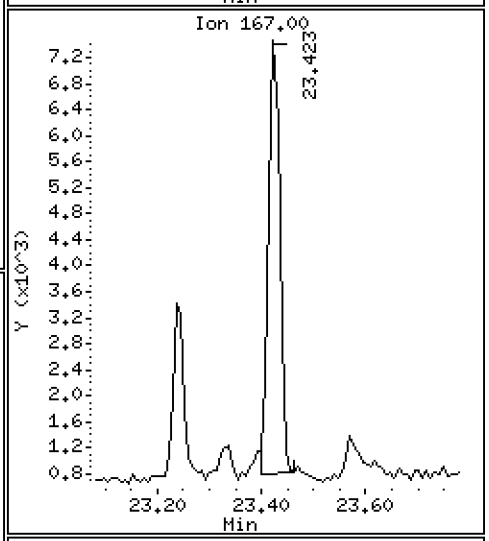


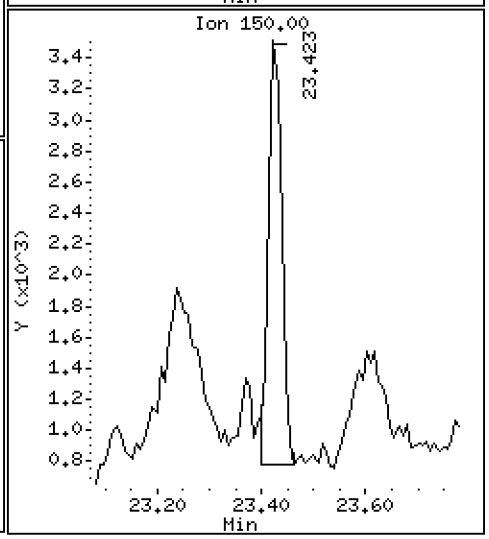












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123081.D

Date : 01-JAN-2023 08:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-11

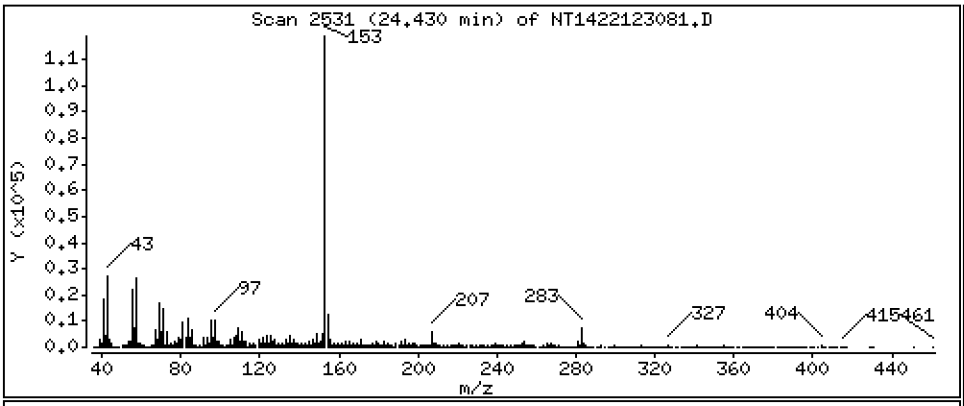
Operator: VTS

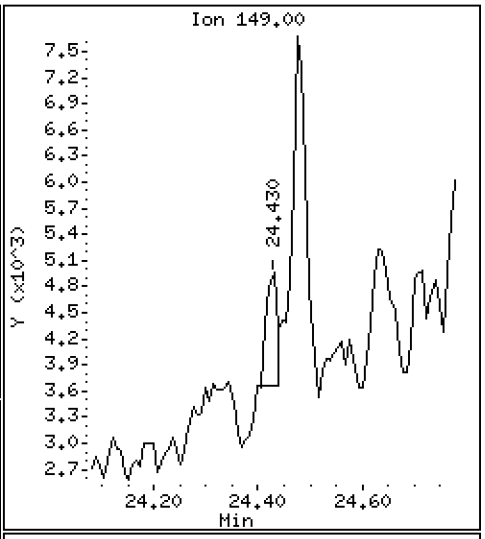
Column phase: ZB-5msi

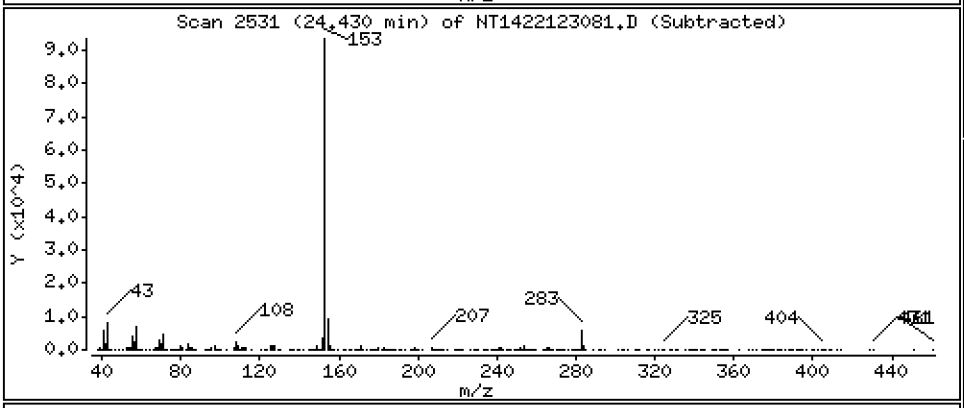
Column diameter: 0.25

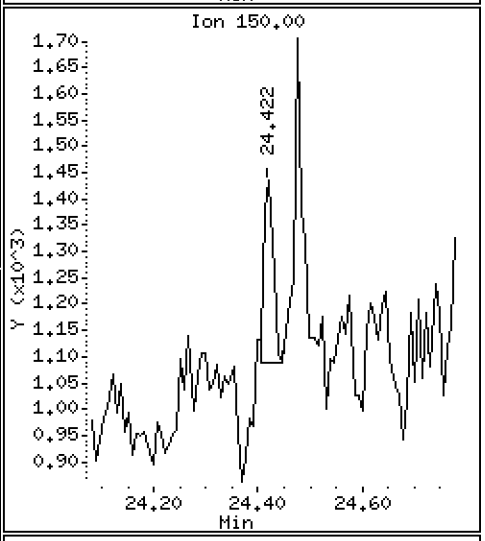
73 Di-n-octylphthalate

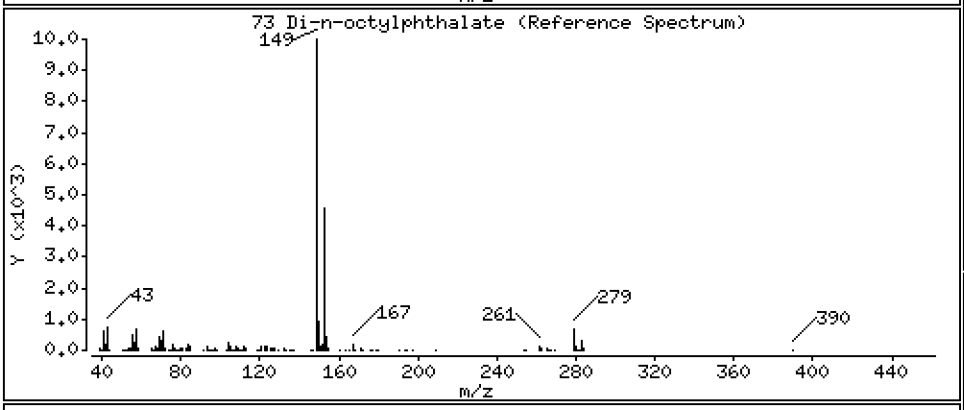
Concentration: 0.01928 ug/mL

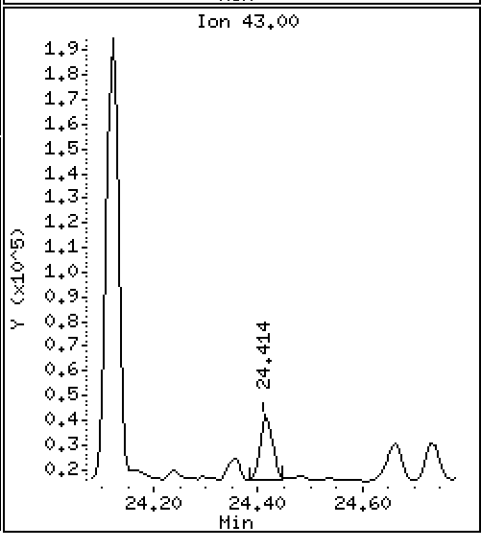


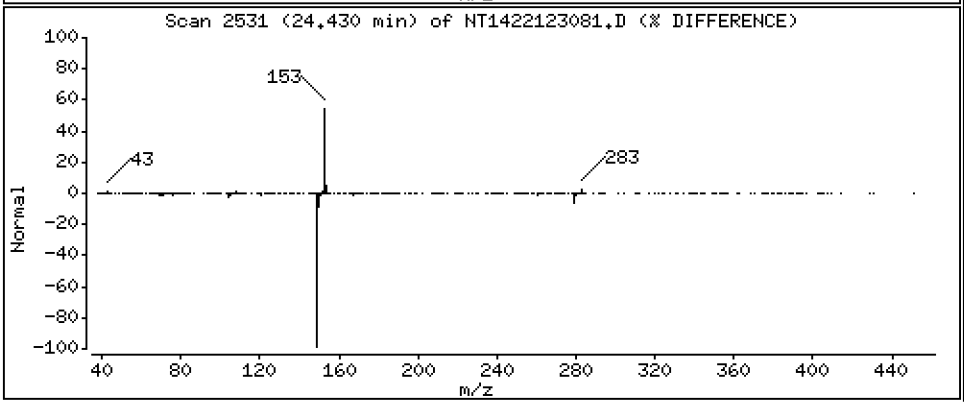












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Date : 01-JAN-2023 08:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-11

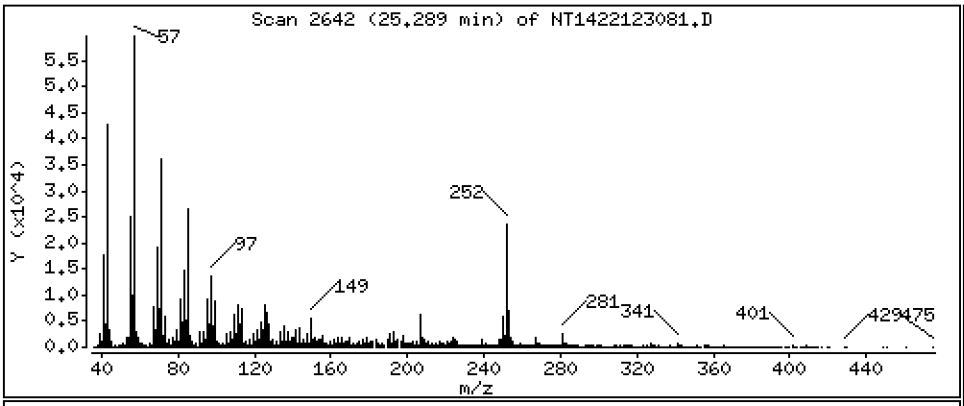
Operator: VTS

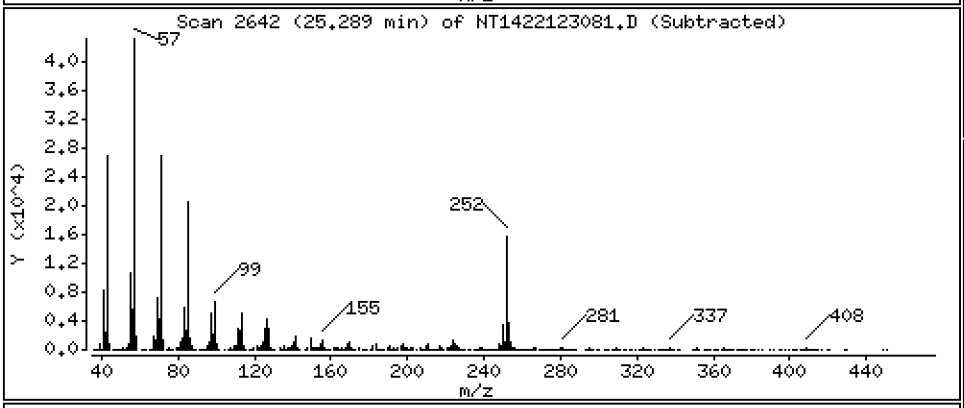
Column phase: ZB-5msi

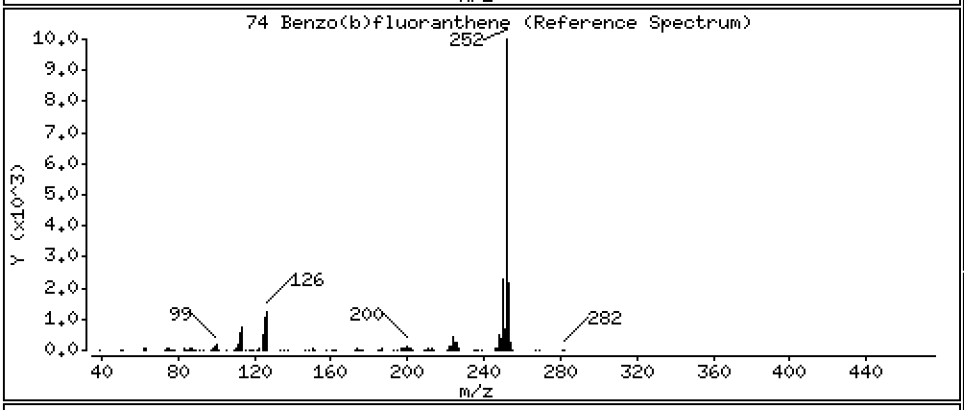
Column diameter: 0.25

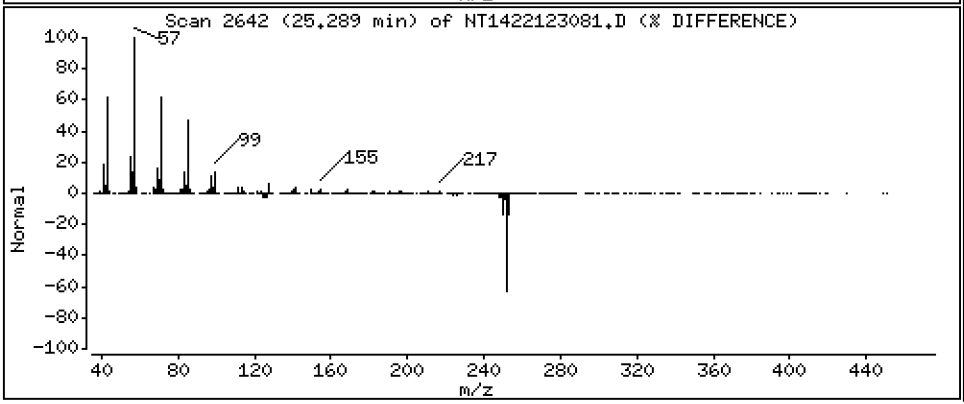
74 Benzo(b)fluoranthene

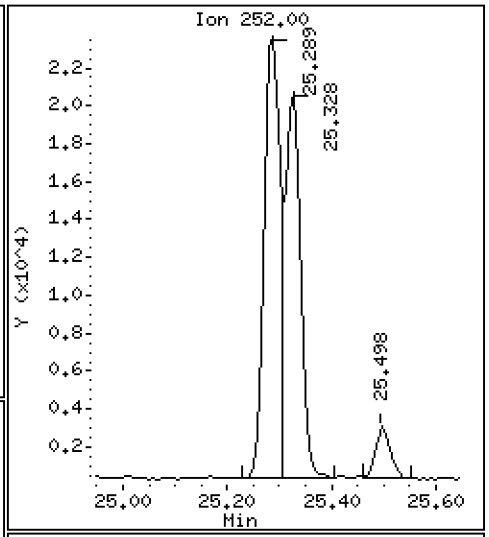
Concentration: 0.8224 ug/mL

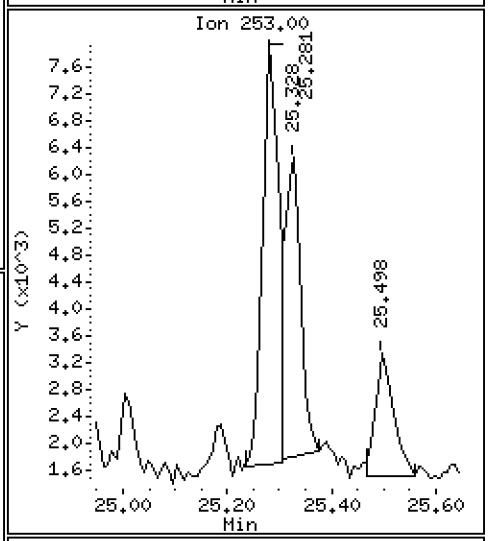


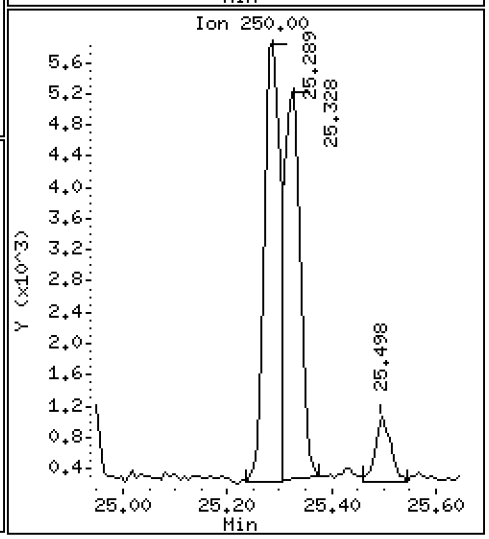












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Date : 01-JAN-2023 08:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-11

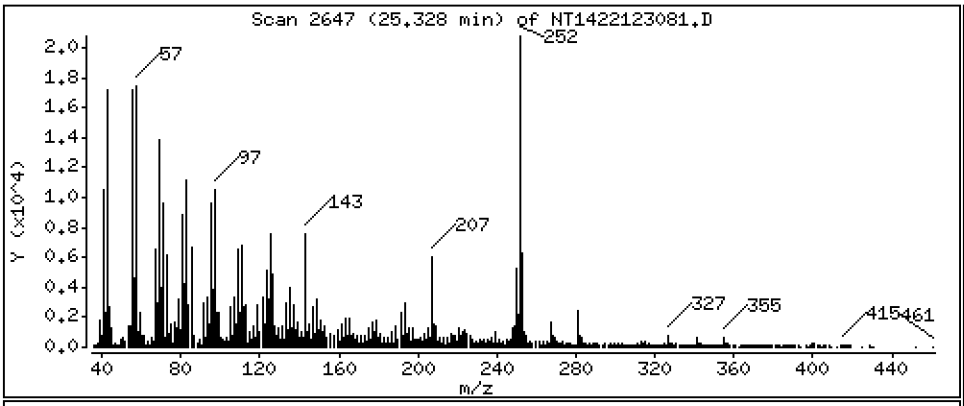
Operator: VTS

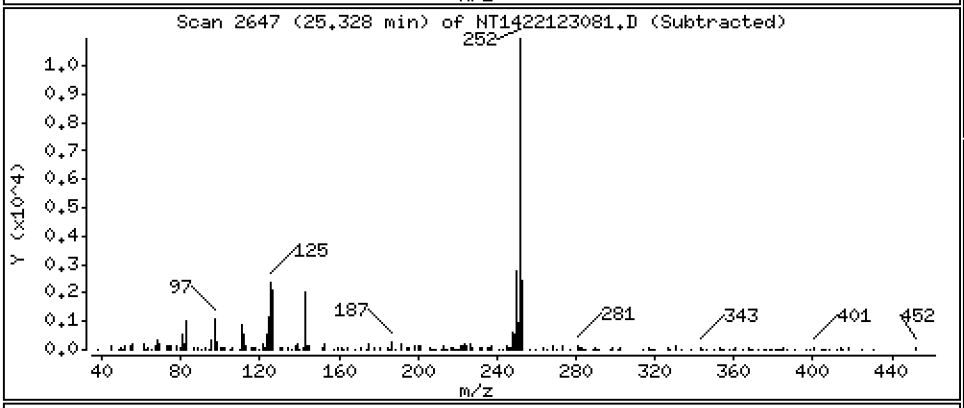
Column phase: ZB-5msi

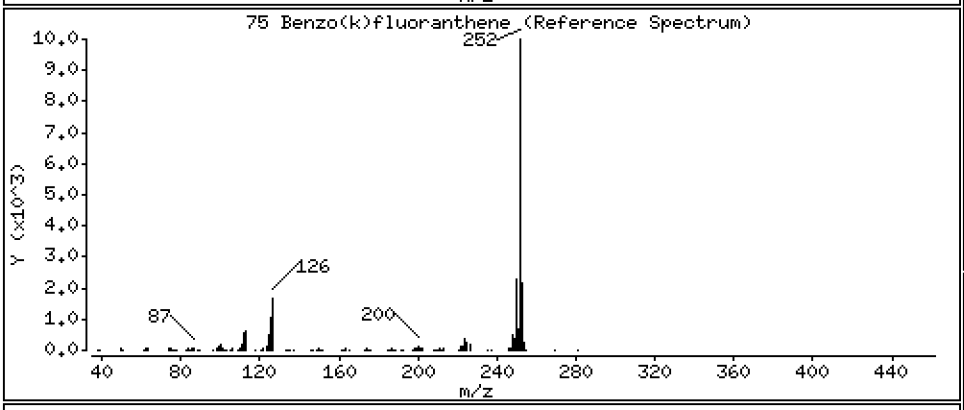
Column diameter: 0.25

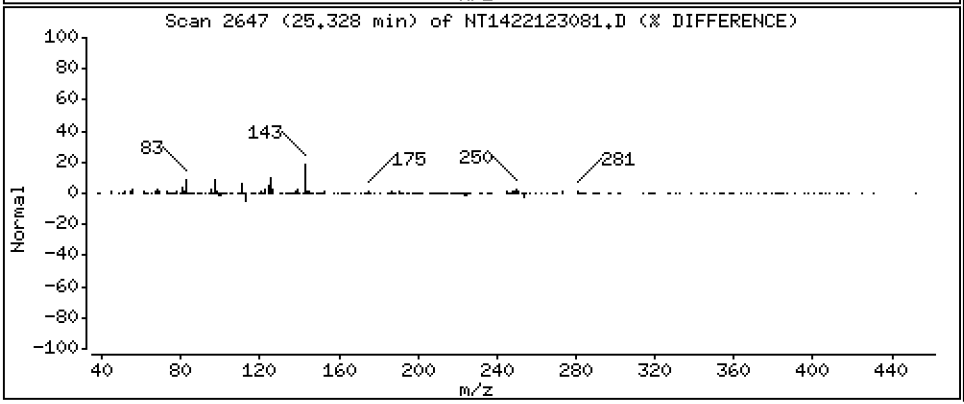
75 Benzo(k)fluoranthene

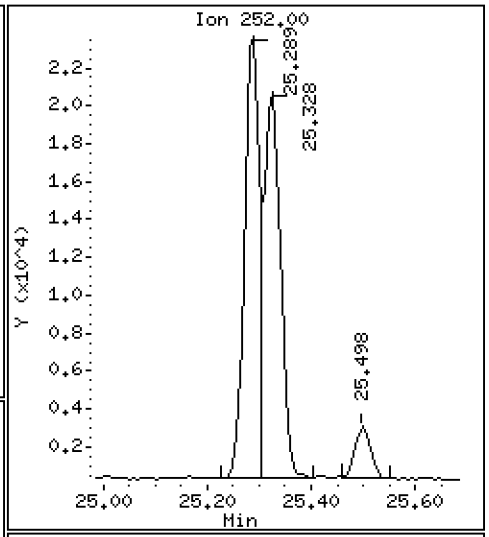
Concentration: 0.7935 ug/mL

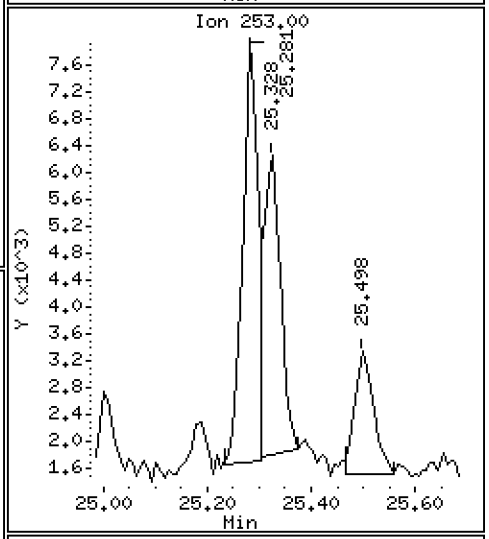


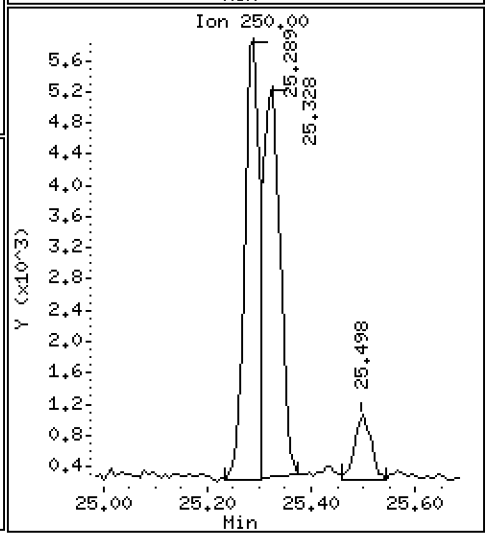












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Date : 01-JAN-2023 08:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-11

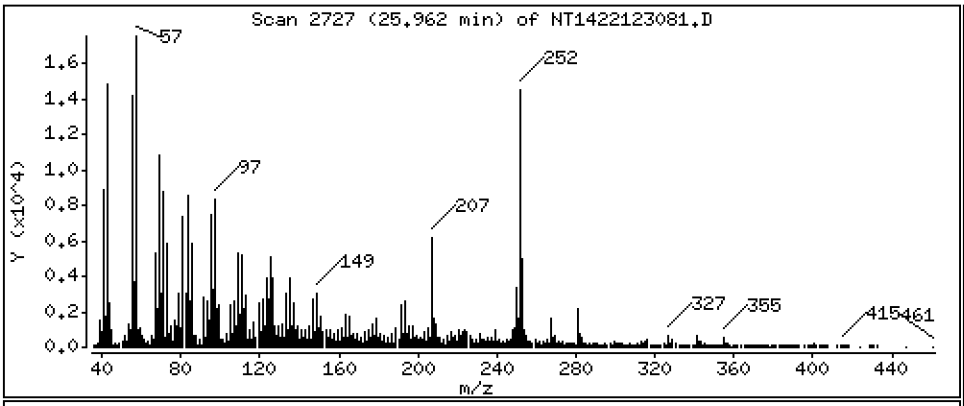
Operator: VTS

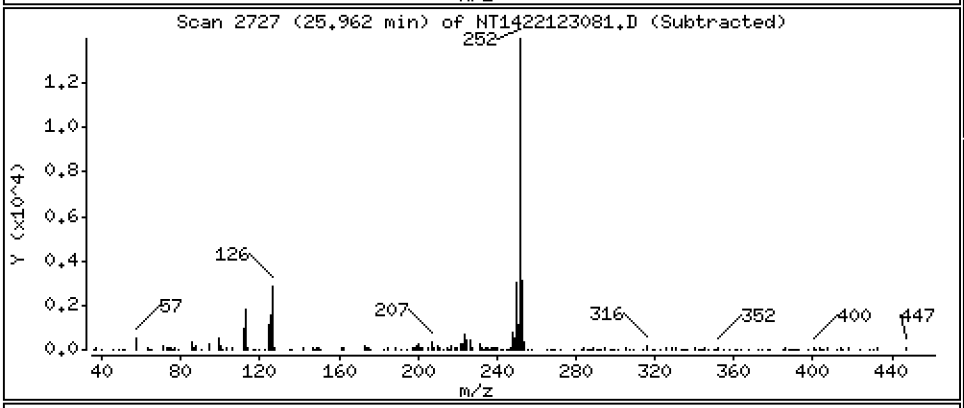
Column phase: ZB-5msi

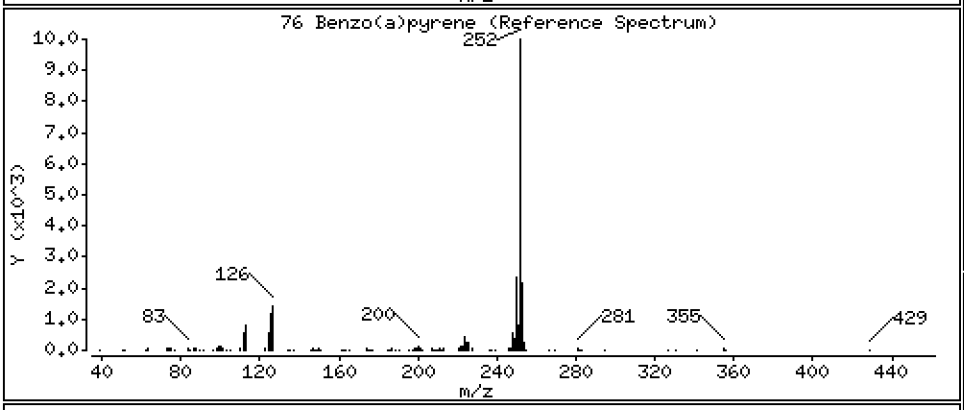
Column diameter: 0.25

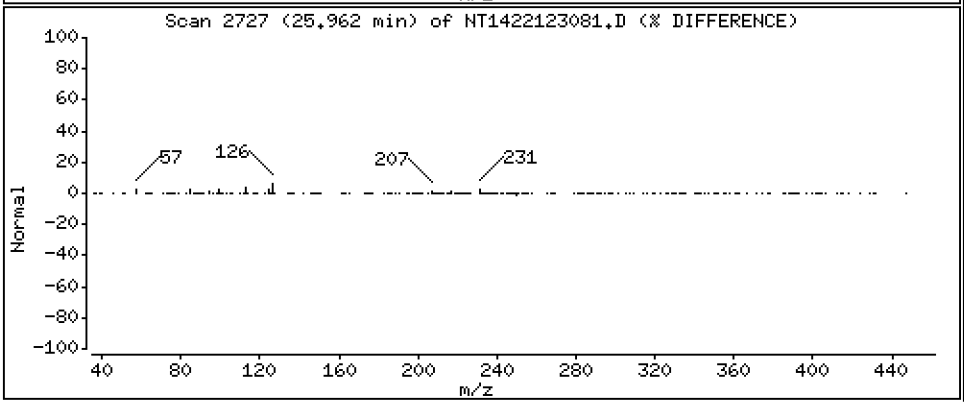
76 Benzo(a)pyrene

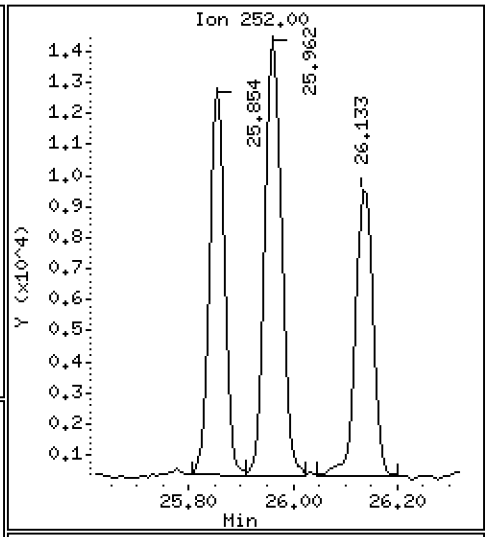
Concentration: 0.6364 ug/mL

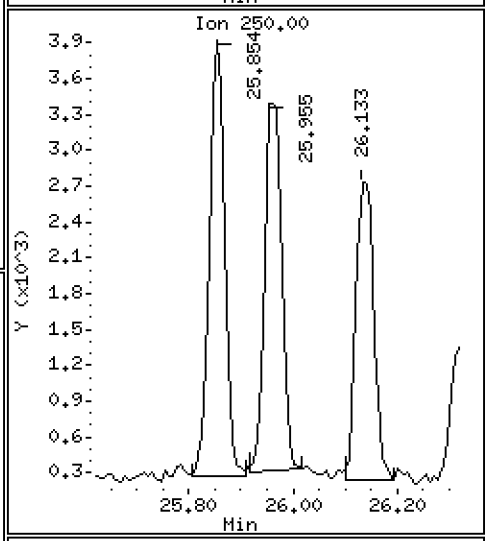


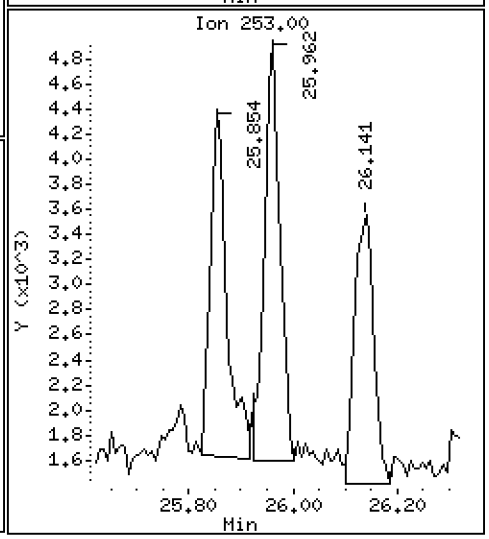












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Date : 01-JAN-2023 08:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-11

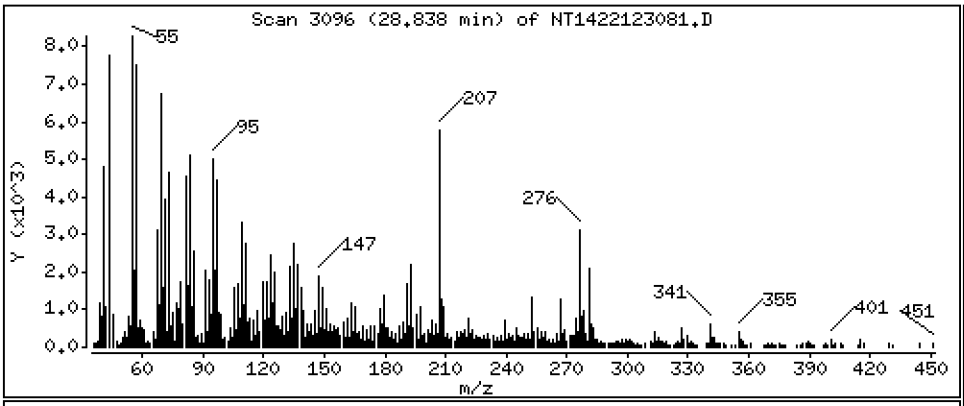
Operator: VTS

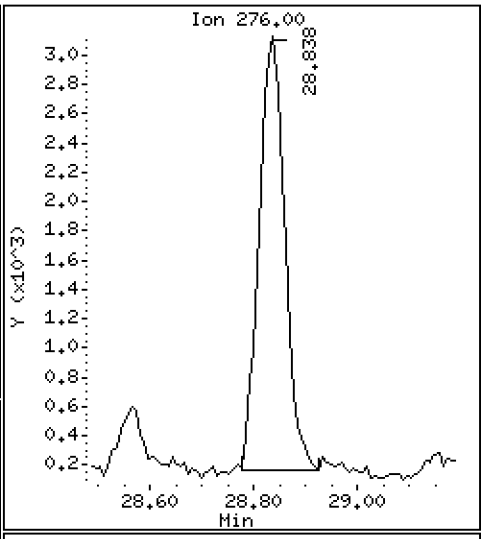
Column phase: ZB-5msi

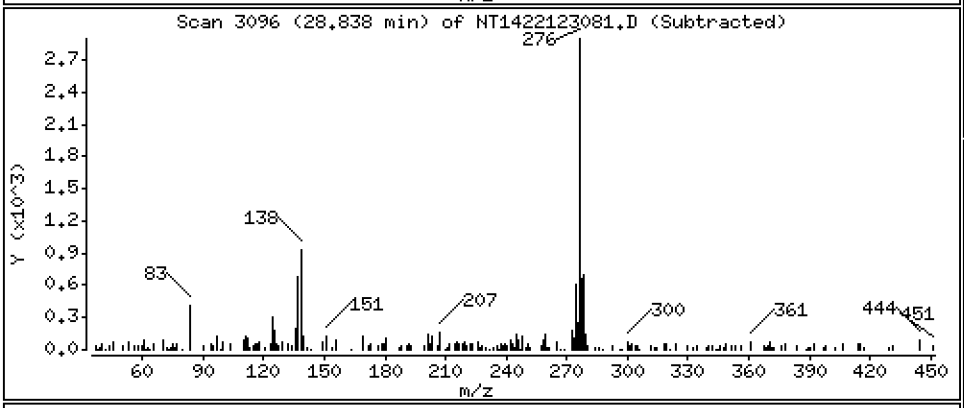
Column diameter: 0.25

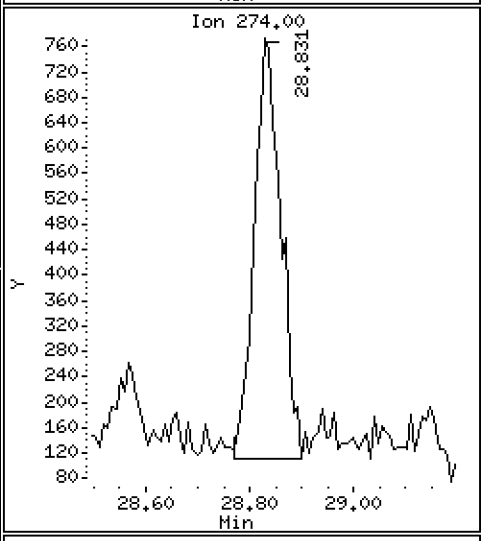
78 Indeno(1,2,3-cd)pyrene

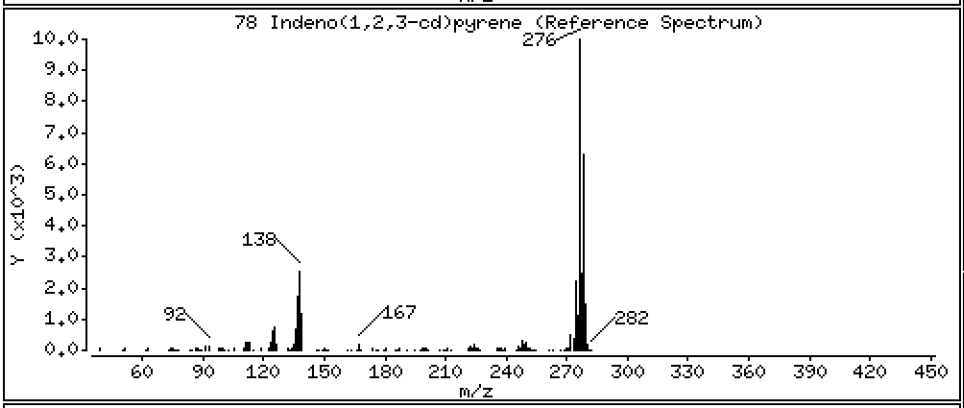
Concentration: 0.1819 ug/mL

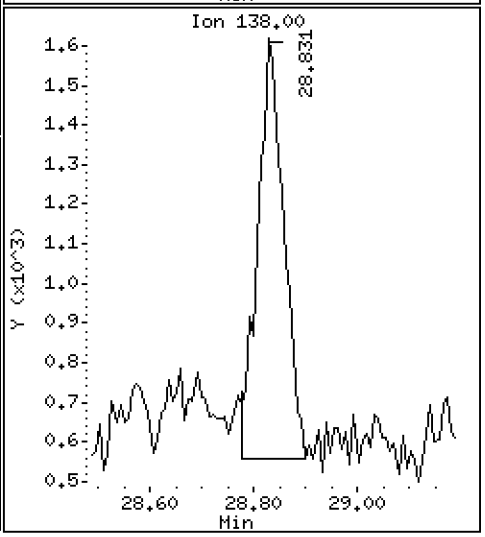


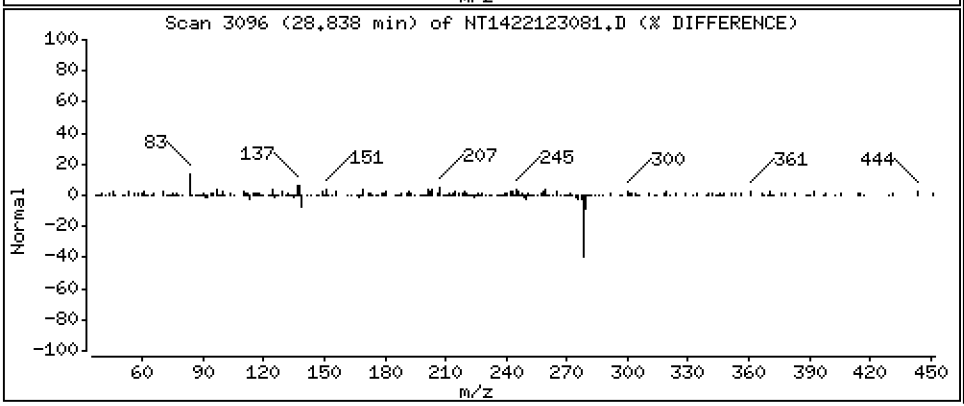












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Date : 01-JAN-2023 08:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-11

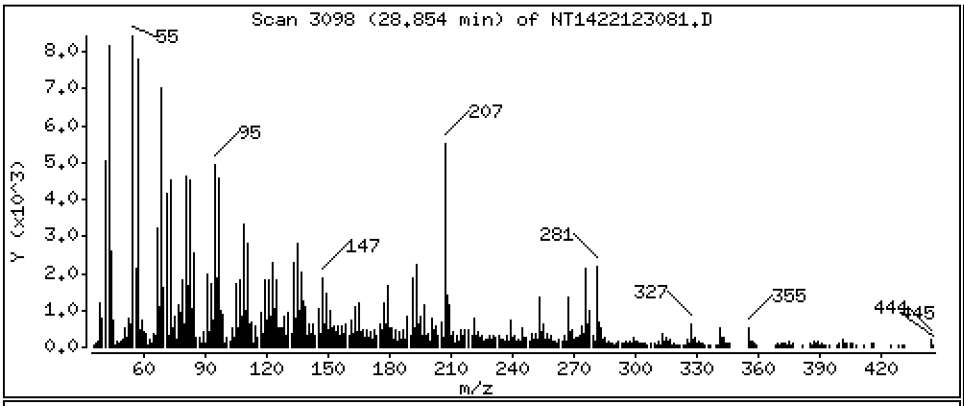
Operator: VTS

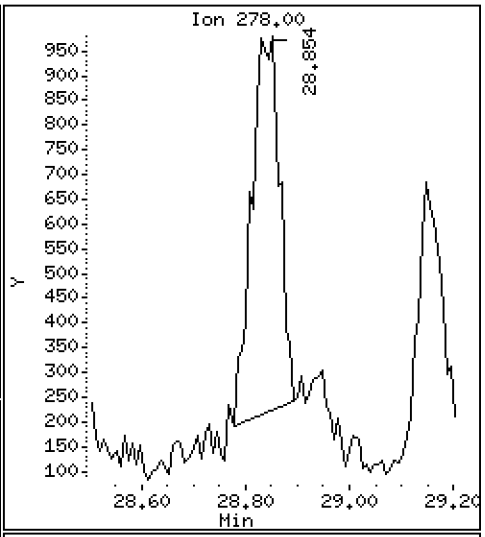
Column phase: ZB-5msi

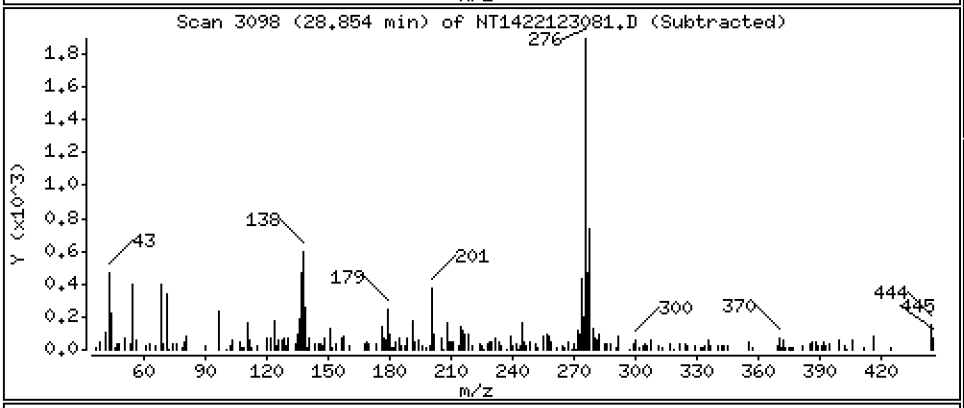
Column diameter: 0.25

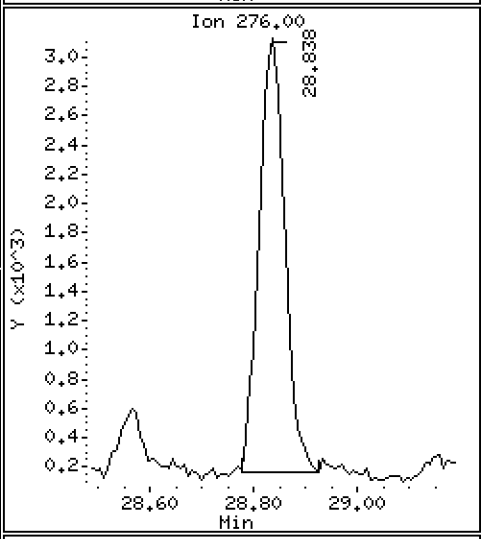
79 Dibenzo(a,h)anthracene

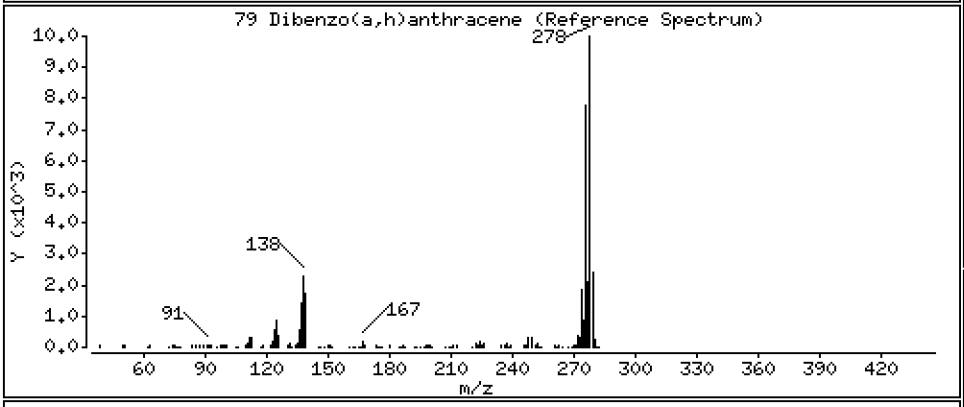
Concentration: 0.06035 ug/mL

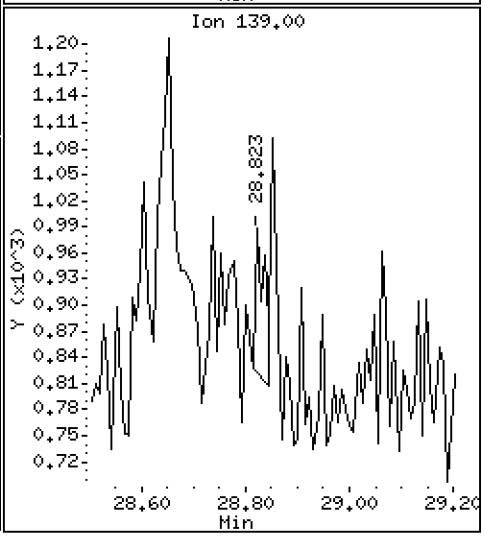


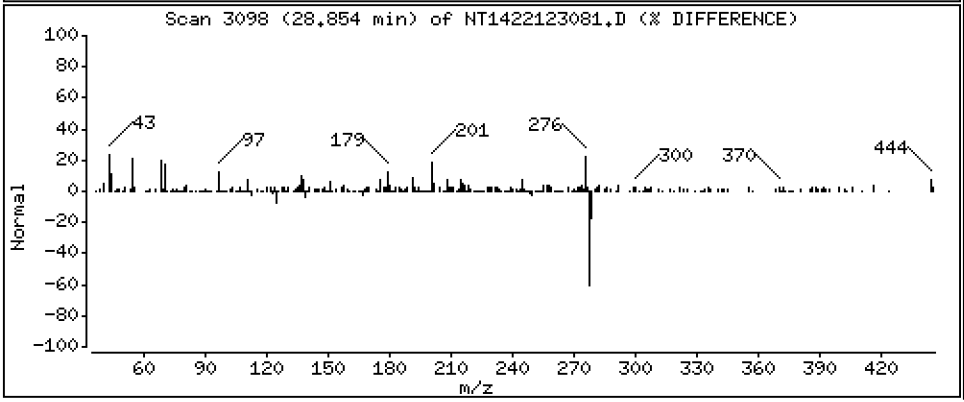












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Date : 01-JAN-2023 08:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-11

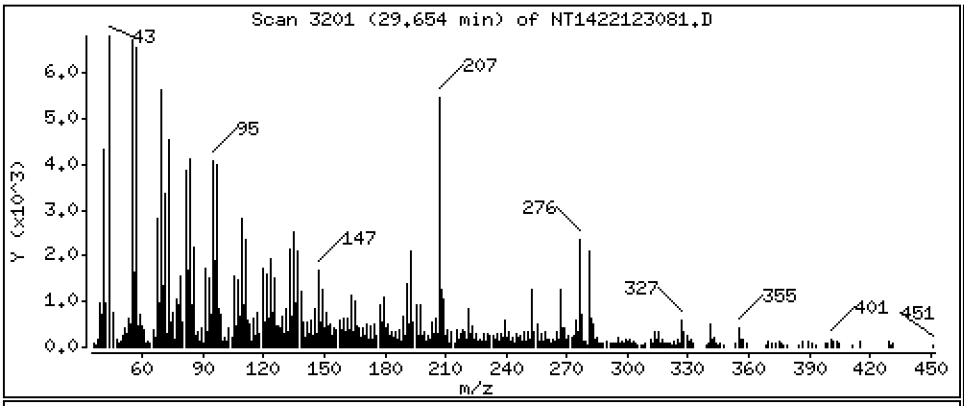
Operator: VTS

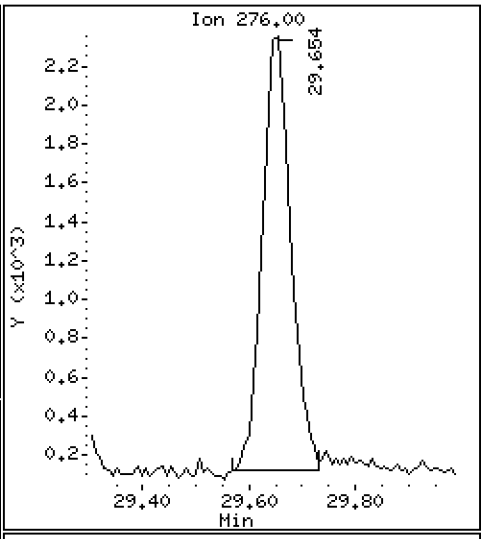
Column phase: ZB-5msi

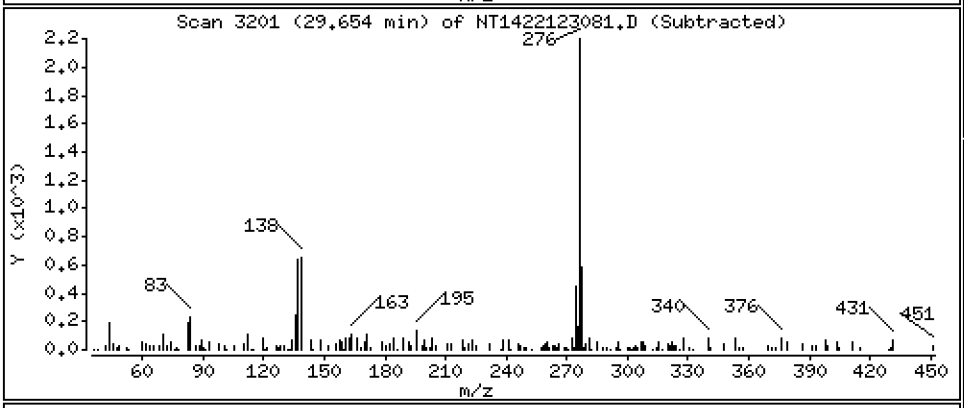
Column diameter: 0.25

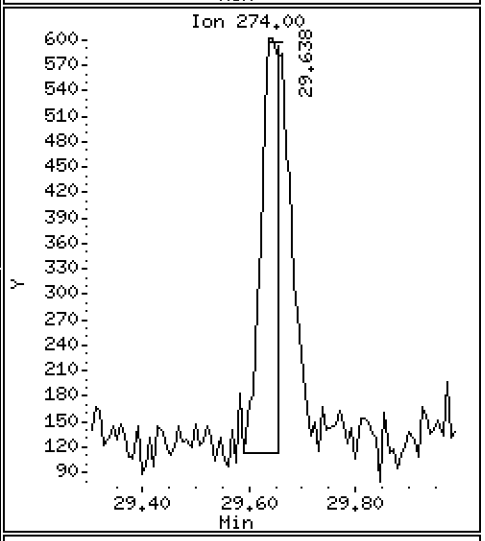
80 Benzo(g,h,i)perylene

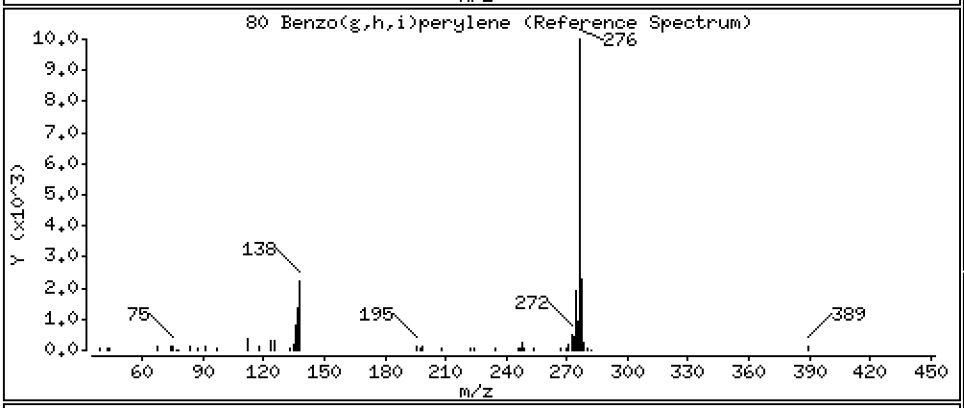
Concentration: 0.1783 ug/mL

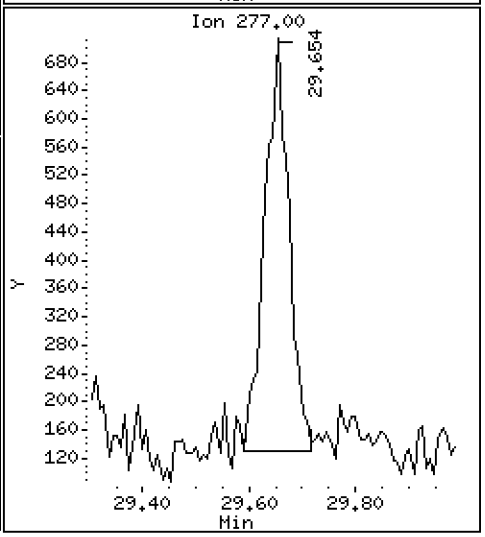


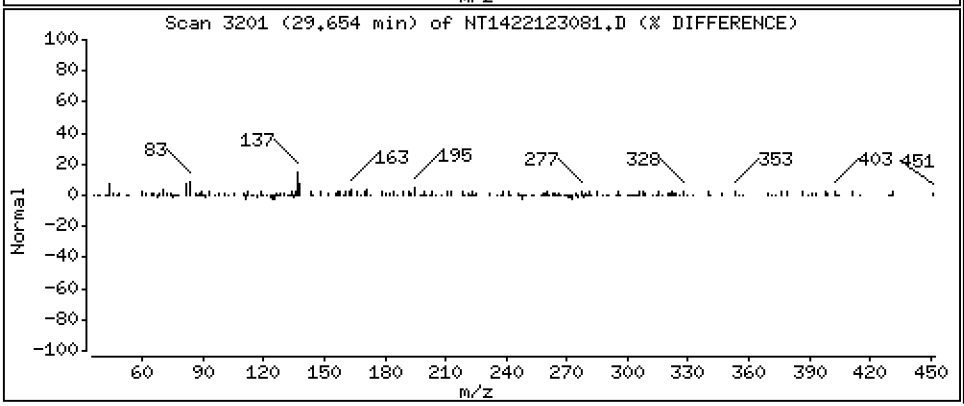












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Date : 01-JAN-2023 08:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-11

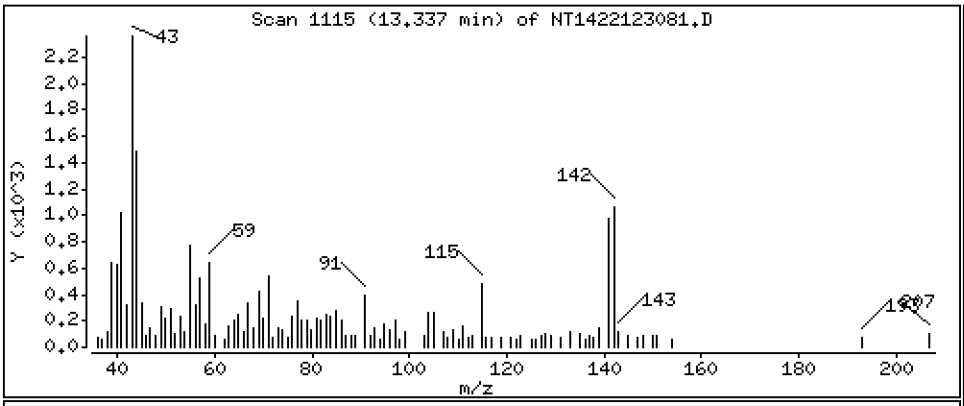
Operator: VTS

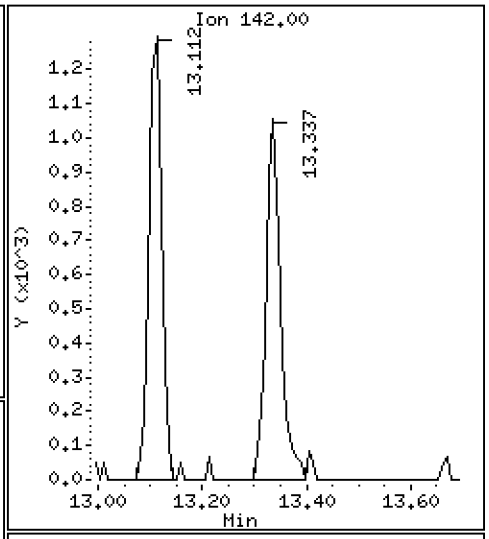
Column phase: ZB-5msi

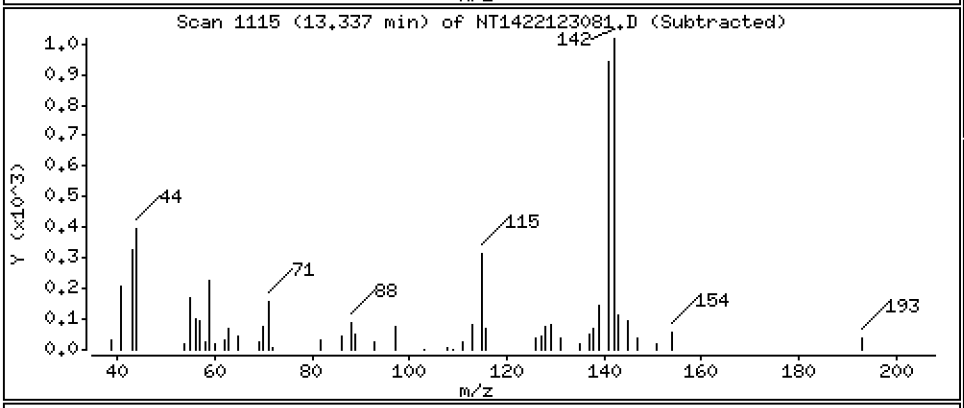
Column diameter: 0.25

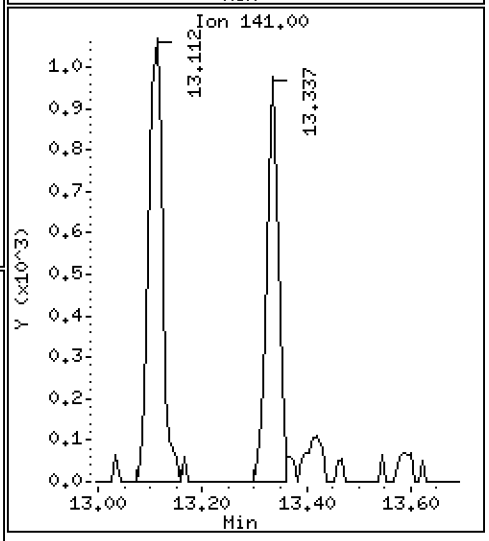
105 1-methylnaphthalene

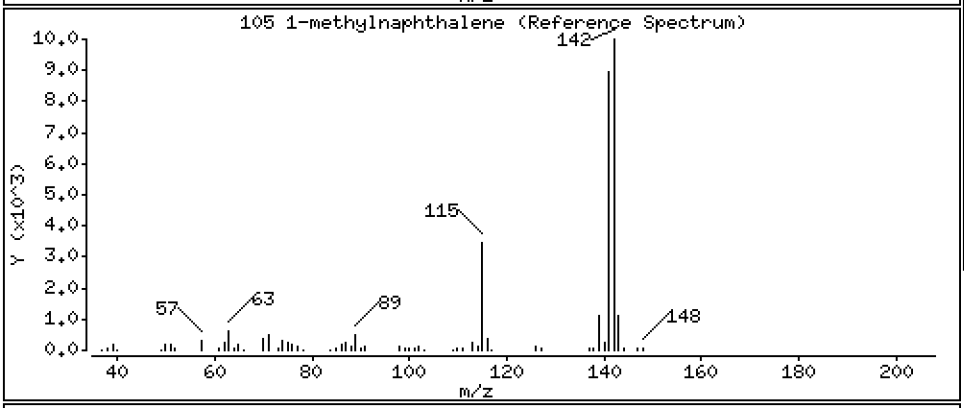
Concentration: 0.03538 ug/mL

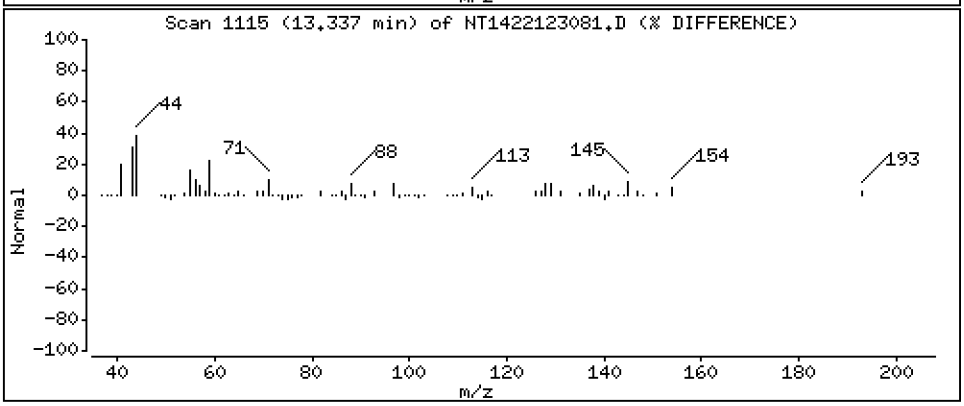












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Date : 01-JAN-2023 08:29

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-11

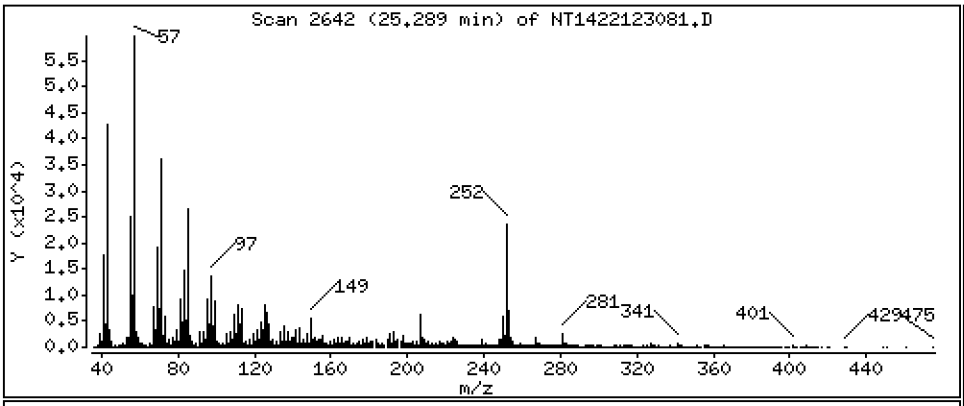
Operator: VTS

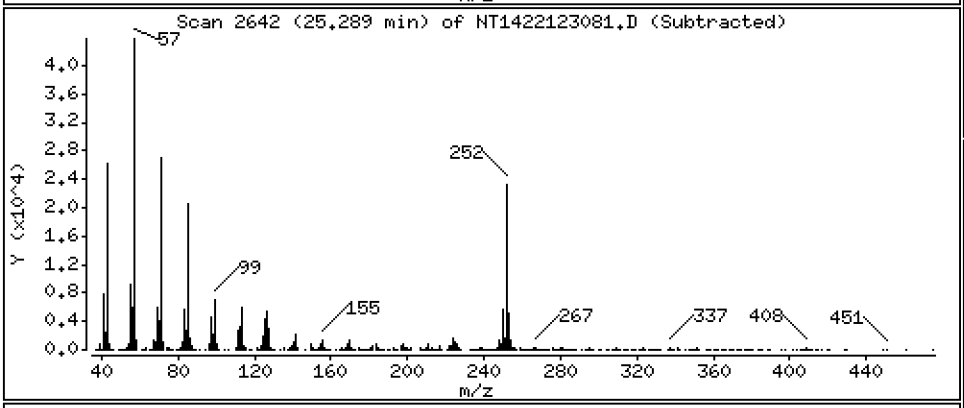
Column phase: ZB-5msi

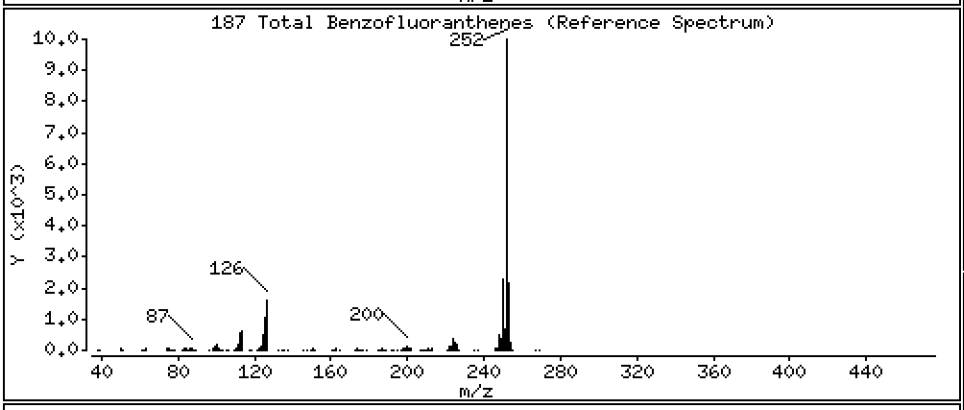
Column diameter: 0.25

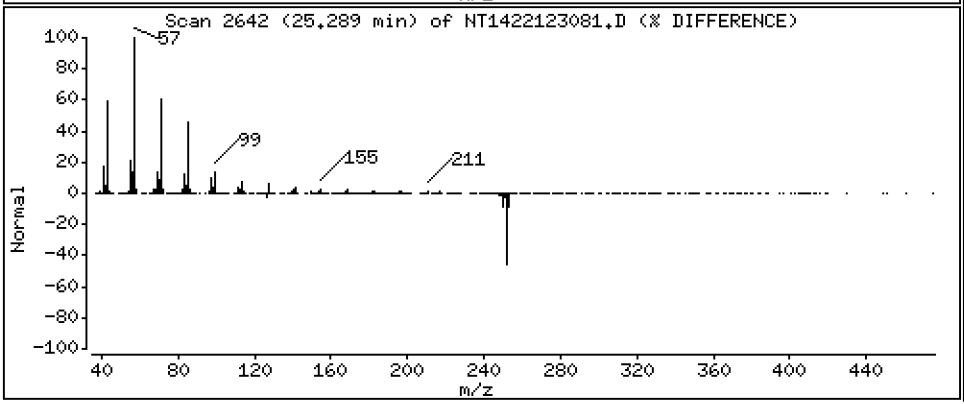
187 Total Benzofluoranthenes

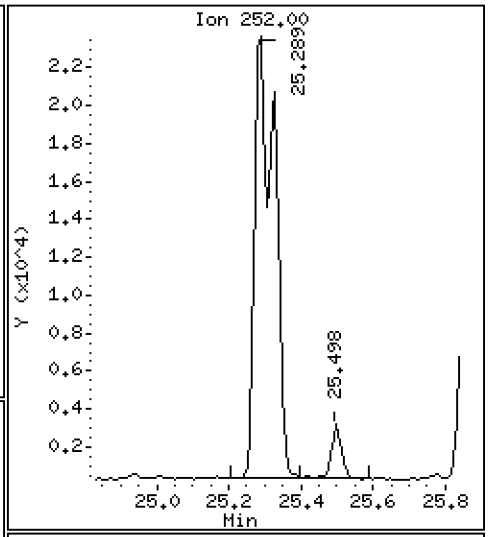
Concentration: 1.571 ug/mL

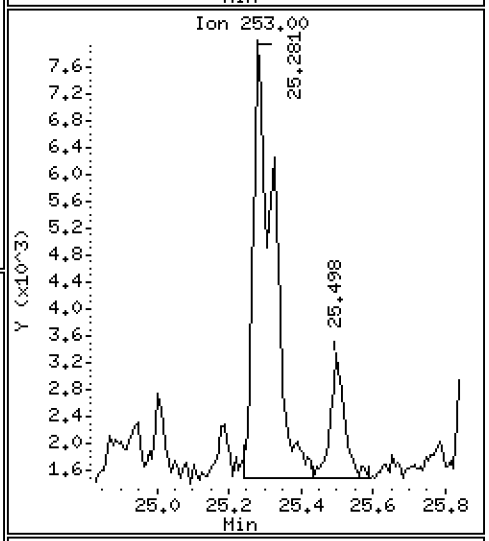


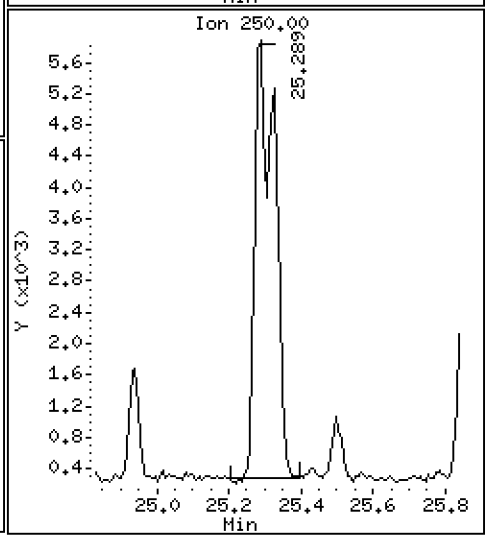












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230C.b\NT1422123081.D
Lab Smp Id: 22L0136-11
Inj Date : 01-JAN-2023 08:29 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : 22L0136-11
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 52
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.927	6.919	(0.756)	148184	5.32043	5.320
$	2 Phenol-d5	99	8.519	8.519	(0.930)	183159	5.32131	5.321
	3 Phenol	94	8.542	8.542	(0.932)	3820	0.09767	0.09767
$	5 2-Chlorophenol-d4	132	8.797	8.797	(0.960)	164346	5.68527	5.685
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	9.160	9.160	(1.000)	86936	4.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	9.517	9.525	(1.039)	69649	3.52519	3.525
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	9.432	9.440	(1.030)	6883	0.39532	0.3953
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	9.936	9.936	(1.085)	1799	0.06001	0.06001
$	18 Nitrobenzene-d5	82	10.255	10.262	(0.879)	111476	4.15045	4.150
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	11.100	11.209	(0.952)	5482	0.32339	0.3234(M)
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	11.666	11.673	(1.000)	318066	4.00000	
	28 Naphthalene	128	11.704	11.712	(1.003)	3075	0.03928	0.03928
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	142	13.112	13.120	(1.124)	2097	0.03652	0.03652
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	13.894	13.901	(0.908)	220099	4.08908	4.089
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	14.791	14.799	(0.967)	11518	0.25512	0.2551
	40	Acenaphthylene	152	14.985	14.993	(0.979)	2113	0.03026	0.03026
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	15.302	15.310	(1.000)	160091	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	15.364	15.371	(1.004)	1665	0.03845	0.03845
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	15.696	15.704	(1.026)	2510	0.03865	0.03865
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	16.253	16.268	(1.062)	24104	0.39279	0.3928
	49	Fluorene	166	16.407	16.423	(1.072)	4399	0.06368	0.06368
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55	2,4,6-Tribromophenol	330	16.947	16.955	(1.108)	50845	6.54664	6.547
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	18.353	18.361	(1.000)	269454	4.00000	
	60	Phenanthrene	178	18.400	18.408	(1.003)	36194	0.51518	0.5152
	61	Anthracene	178	18.493	18.500	(1.008)	16176	0.24119	0.2412
	62	Carbazole	167	18.818	18.825	(1.025)	2475	0.03817	0.03817
	63	Di-n-butylphthalate	149	19.607	19.614	(1.068)	1564	0.02140	0.02140
	64	Fluoranthene	202	20.783	20.791	(0.888)	93061	1.41374	1.414
	65	Pyrene	202	21.208	21.216	(0.906)	56604	0.81785	0.8178
$	66	Terphenyl-d14	244	21.487	21.495	(0.918)	214899	4.37901	4.379
	67	Butylbenzylphthalate	149	Compound Not Detected.					
	68	Benzo(a)anthracene	228	23.368	23.376	(0.999)	59266	0.95697	0.9570
*	69	Chrysene-d12	240	23.399	23.399	(1.000)	204439	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	23.438	23.446	(1.002)	75640	1.29302	1.293
	72	bis(2-Ethylhexyl)phthalate	149	23.423	23.430	(0.959)	32378	0.78081	0.7808
*	134	Di-n-octylphthalate-d4	153	24.414	24.421	(1.000)	373381	4.00000	
	73	Di-n-octylphthalate	149	24.429	24.429	(1.001)	1728	0.01928	0.01928(M)
	74	Benzo(b)fluoranthene	252	25.288	25.296	(0.969)	48549	0.82236	0.8224
	75	Benzo(k)fluoranthene	252	25.327	25.335	(0.971)	47677	0.79347	0.7935
	76	Benzo(a)pyrene	252	25.962	25.970	(0.995)	31230	0.63635	0.6364
*	77	Perylene-d12	264	26.086	26.086	(1.000)	187850	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.838	28.838	(1.105)	10147	0.18188	0.1819
	79	Dibenzo(a,h)anthracene	278	28.853	28.853	(1.106)	2861	0.06035	0.06035(M)
	80	Benzo(g,h,i)perylene	276	29.653	29.653	(1.137)	8333	0.17830	0.1783
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	Compound Not Detected.					
	105	1-methylnaphthalene	142	13.336	13.344	(1.143)	1952	0.03538	0.03538
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.288	25.335	(0.969)	89692	1.57147	1.571
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123081.D
Lab Smp Id: 22L0136-11
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Misc Info:

Calibration Date: 31-DEC-2022
Calibration Time: 23:30
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138755	69378	277510	86936	-37.35
27 Naphthalene-d8	501723	250862	1003446	318066	-36.61
42 Acenaphthene-d10	275234	137617	550468	160091	-41.83
59 Phenanthrene-d10	440085	220043	880170	269454	-38.77
69 Chrysene-d12	384795	192398	769590	204439	-46.87
134 Di-n-octylphthala	674530	337265	1349060	373381	-44.65
77 Perylene-d12	336665	168333	673330	187850	-44.20

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	-0.07
42 Acenaphthene-d10	15.31	14.81	15.81	15.30	-0.05
59 Phenanthrene-d10	18.36	17.86	18.86	18.35	-0.04
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.41	-0.03
77 Perylene-d12	26.09	25.59	26.59	26.09	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123081.D

Lab ID: 22L0136-11
nt14.i, 20221230C.b\ABN.m,   01-JAN-2023 08:29

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.952	0.960	-0.0087	Benzoic acid

RRT check based on Ccal File: NT1422123066.D

On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

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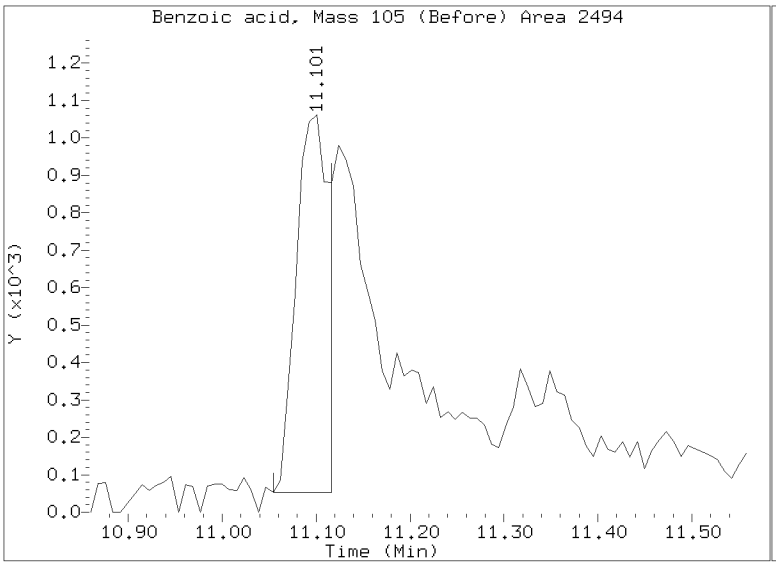
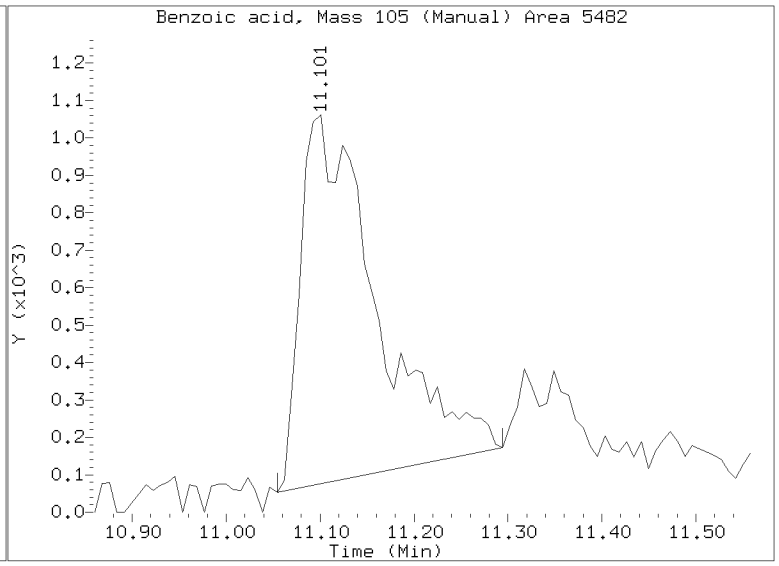
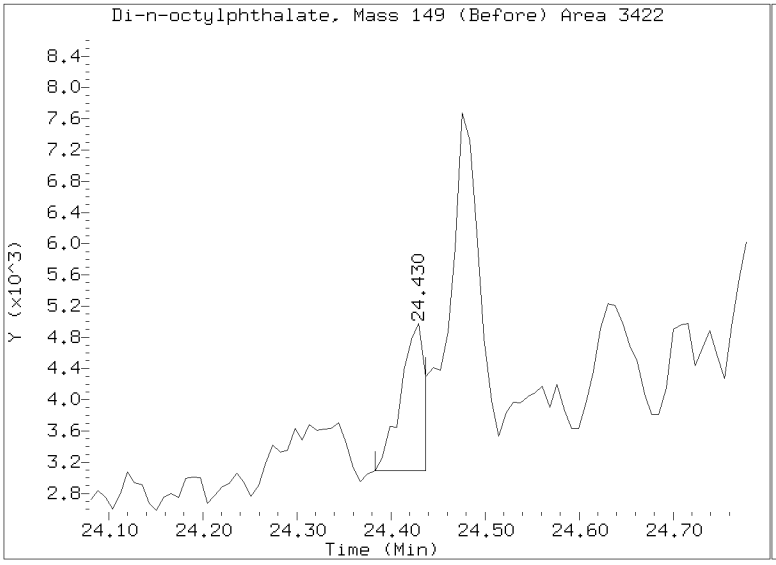
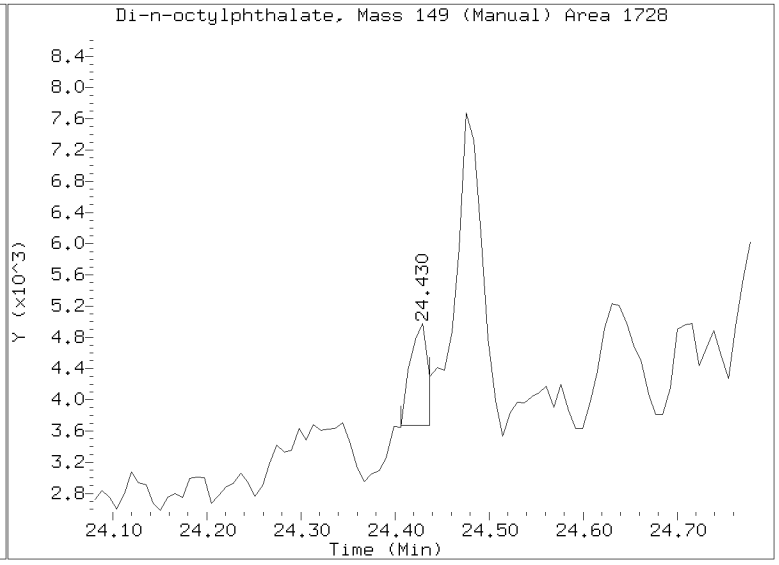
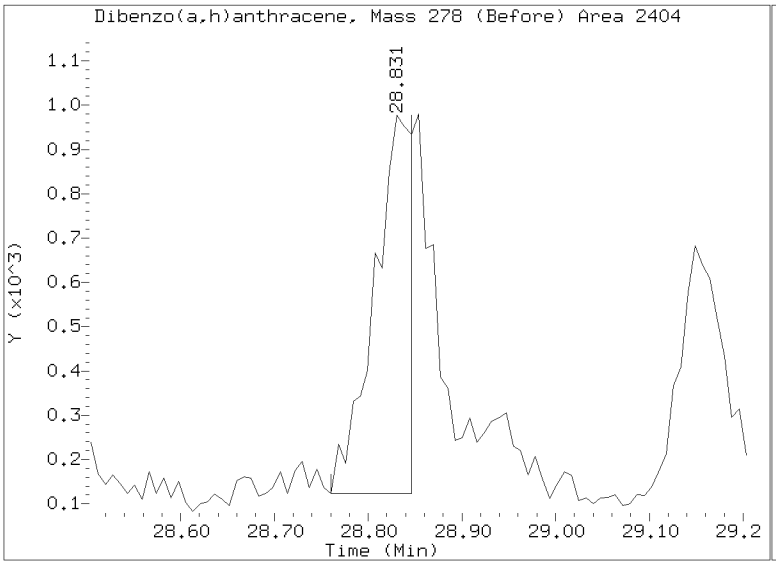
Injection Date: 01-JAN-2023 08:29
Lab ID:22L0136-11 Client ID:
Report Date: 01/04/2023 14:26

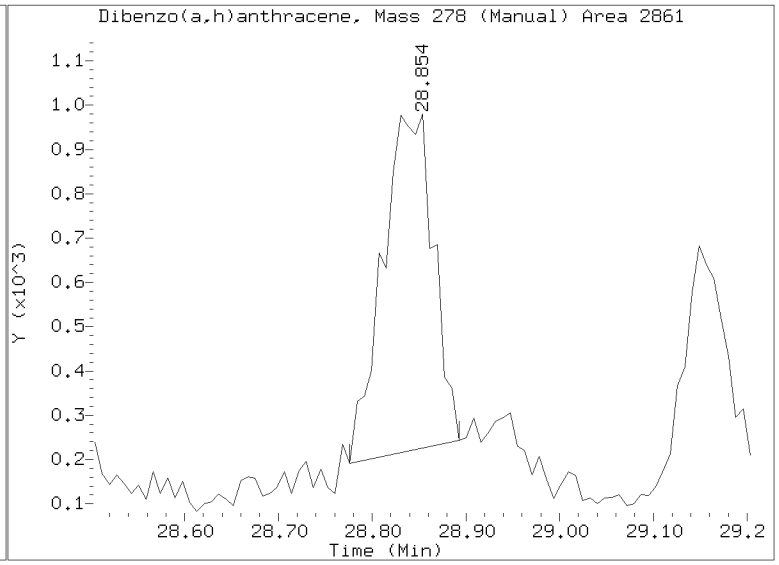












LDW22-SS772

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

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

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-12 A	SDG:	22L0136
Sampled:	12/06/22 13:57	Prepared:	12/09/22 14:39	File ID:	NT1422123082.D
% Solids:	38.91	Preparation:	EPA 3546 (Microwave)	Analyzed:	01/01/23 09:05
Batch:	BKL0193	Sequence:	SKL0355	Initial/Final:	25.72 g Wet / 1 mL
Instrument:	NT14	Column:	ZB-5MS	Calibration:	FL00066
Cleanups:	GPC				

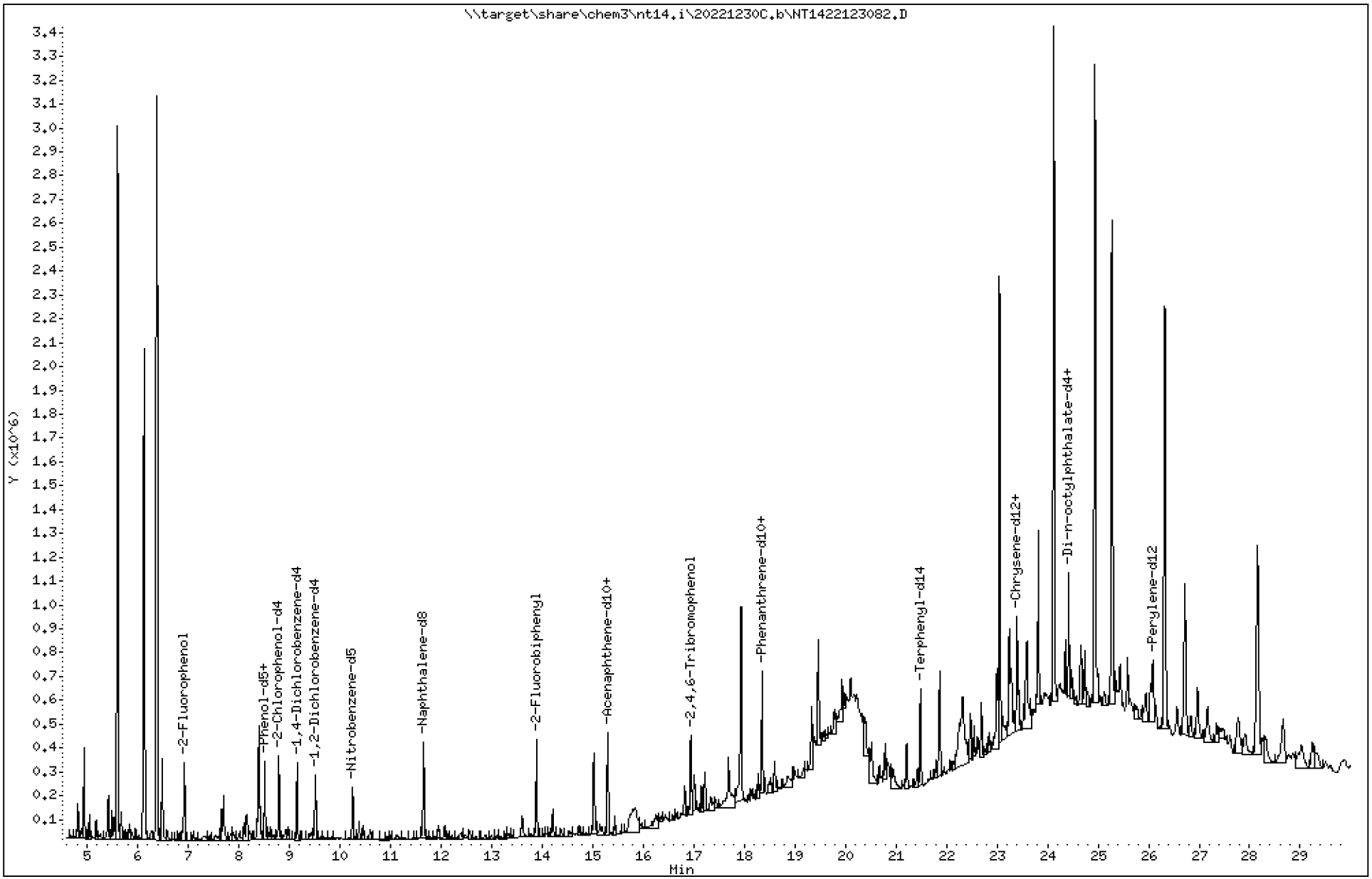
CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
108-95-2	Phenol	1	12.0	J	4.4	20.0
106-44-5	4-Methylphenol	1	20.0	U	7.4	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
Phenol-d5	749.43	527	70.3	29 - 120	
2-Chlorophenol-d4	749.43	558	74.4	31 - 120	
1,2-Dichlorobenzene-d4	499.62	341	68.2	32 - 120	
Nitrobenzene-d5	499.62	411	82.3	30 - 120	

Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123082.D
Date : 01-JAN-2023 09:05
Client ID:
Sample Info: 22L0136-12

Instrument: nt14.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



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Date : 01-JAN-2023 09:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-12

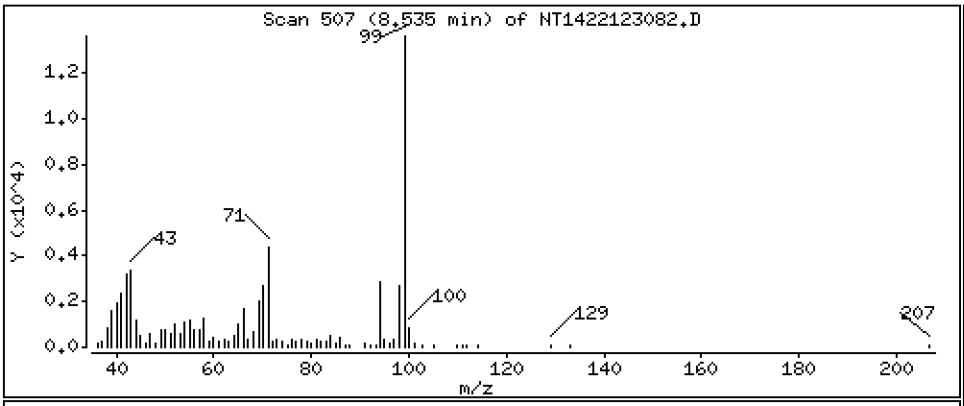
Operator: VTS

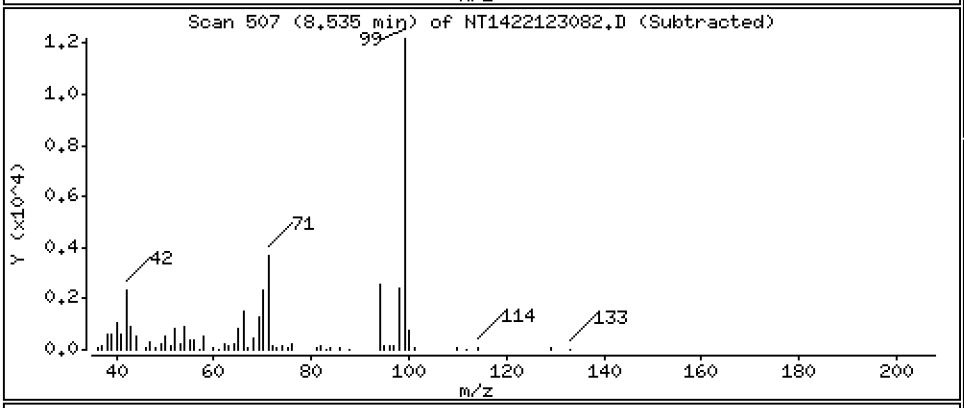
Column phase: ZB-5msi

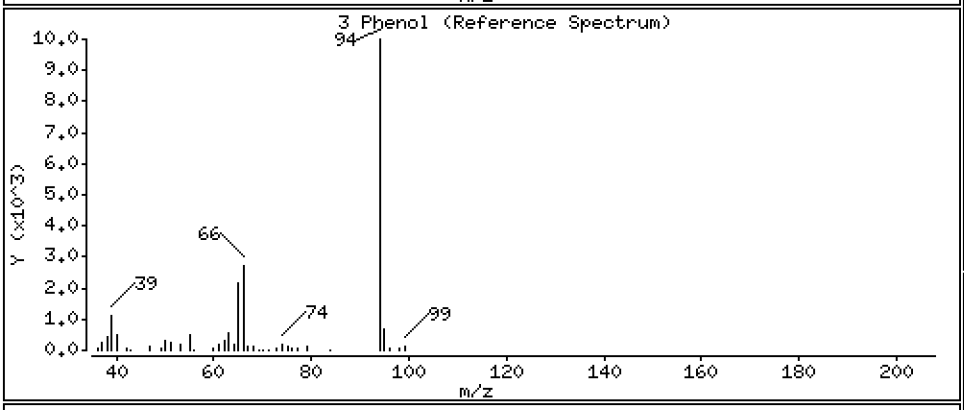
Column diameter: 0.25

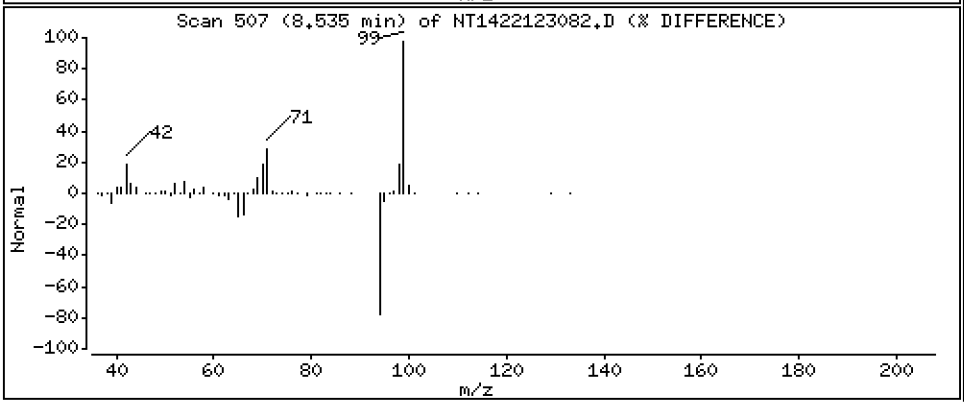
3 Phenol

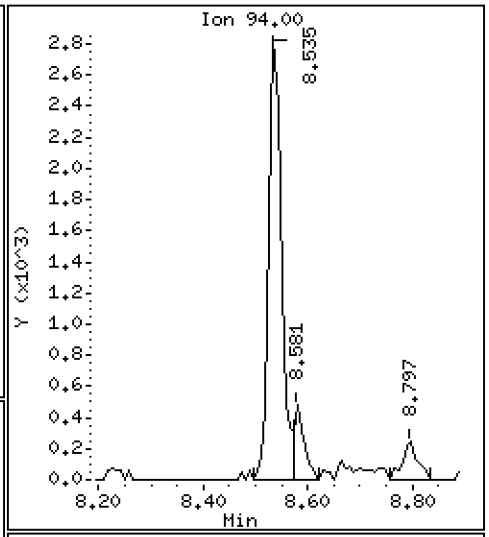
Concentration: 0.1199 ug/mL

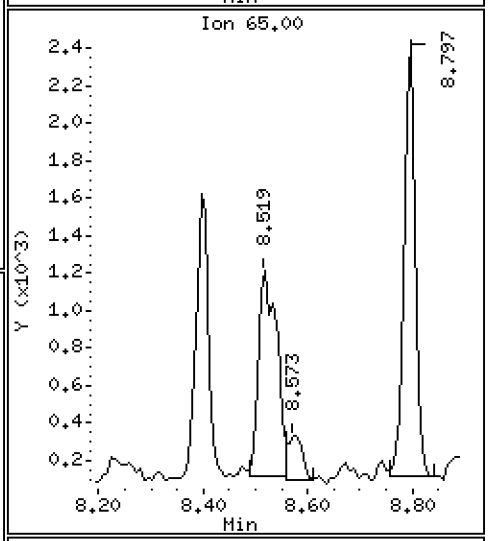


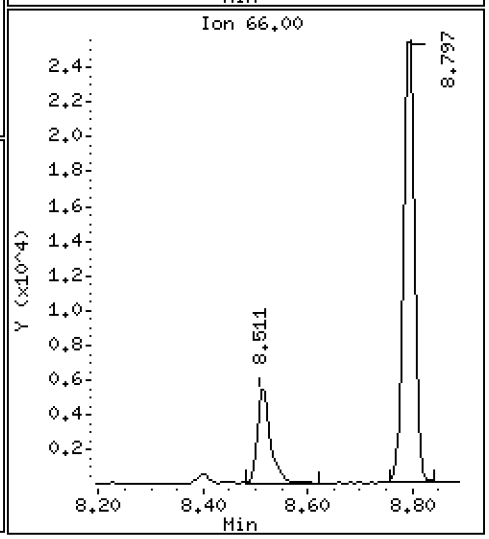












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Date : 01-JAN-2023 09:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-12

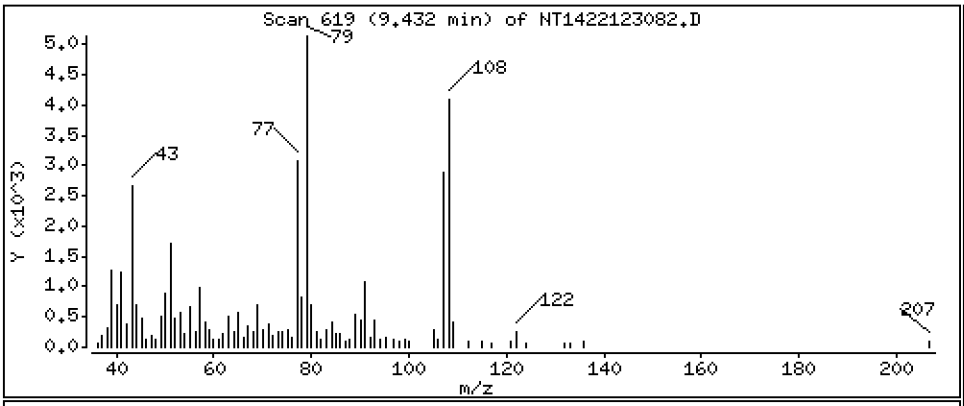
Operator: VTS

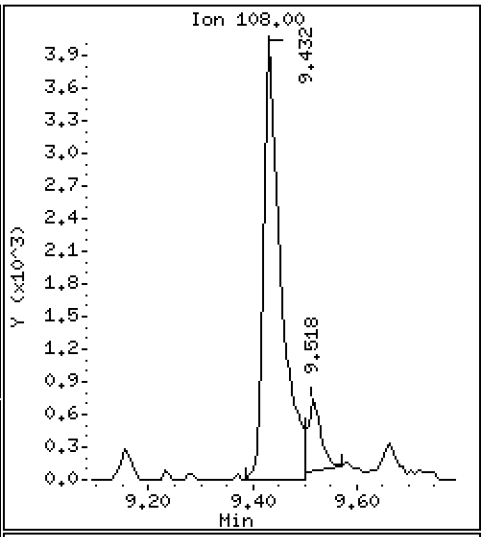
Column phase: ZB-5msi

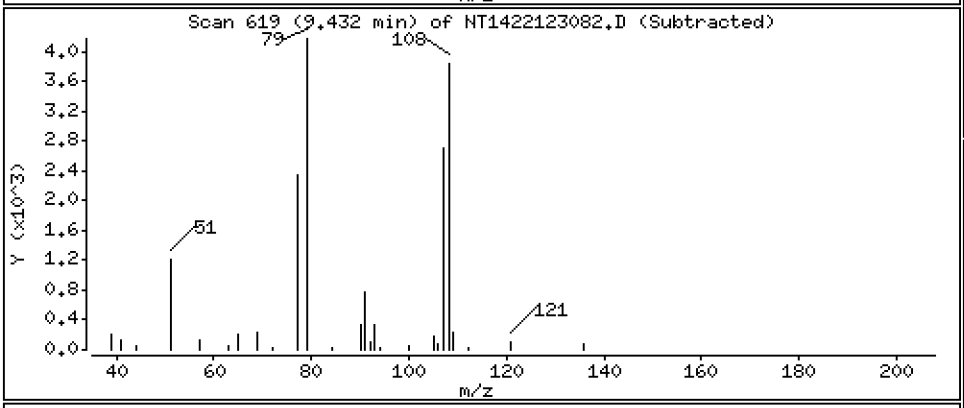
Column diameter: 0.25

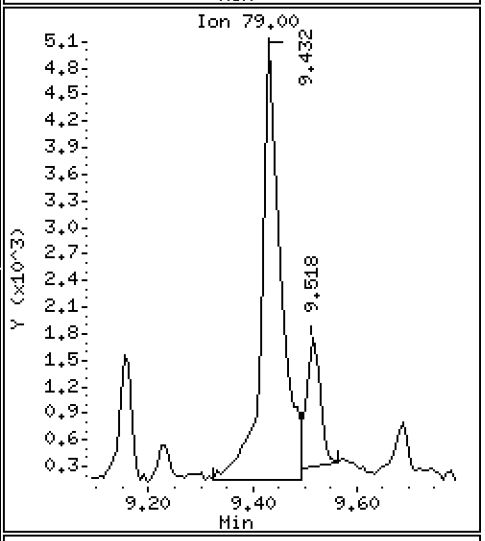
11 Benzyl alcohol

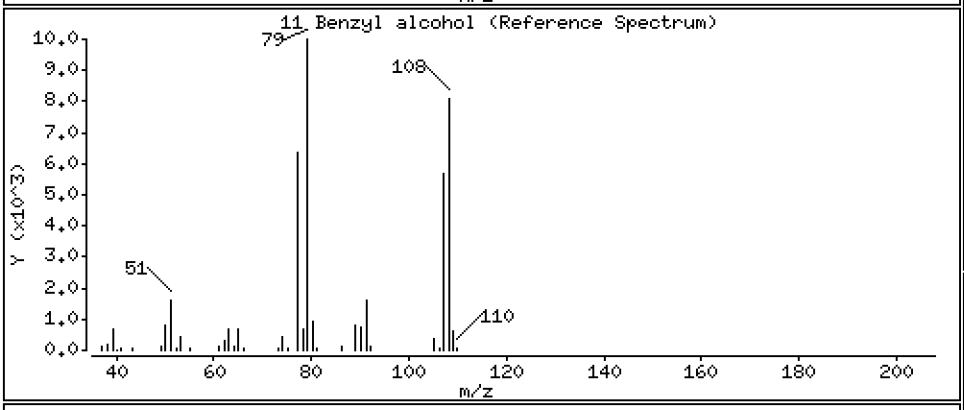
Concentration: 0.5474 ug/mL

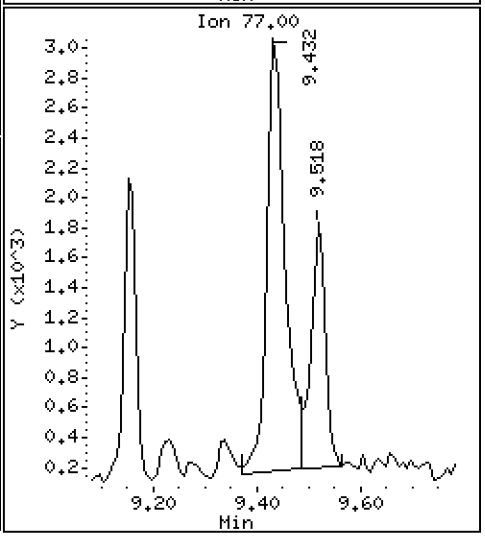


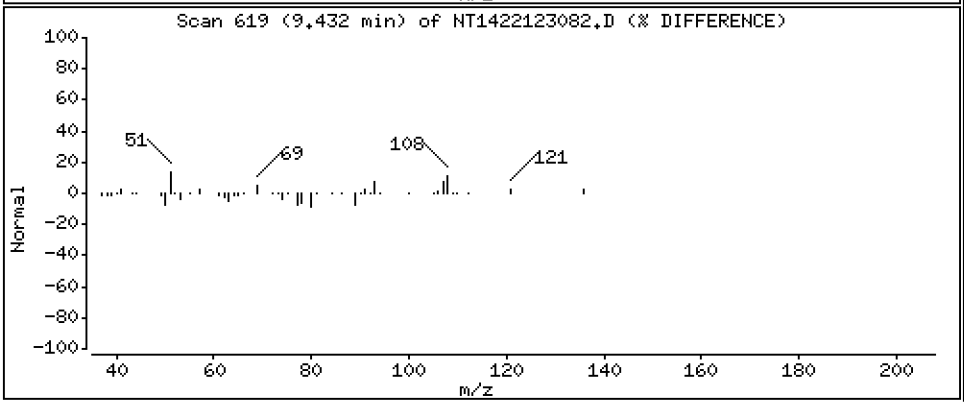












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Date : 01-JAN-2023 09:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-12

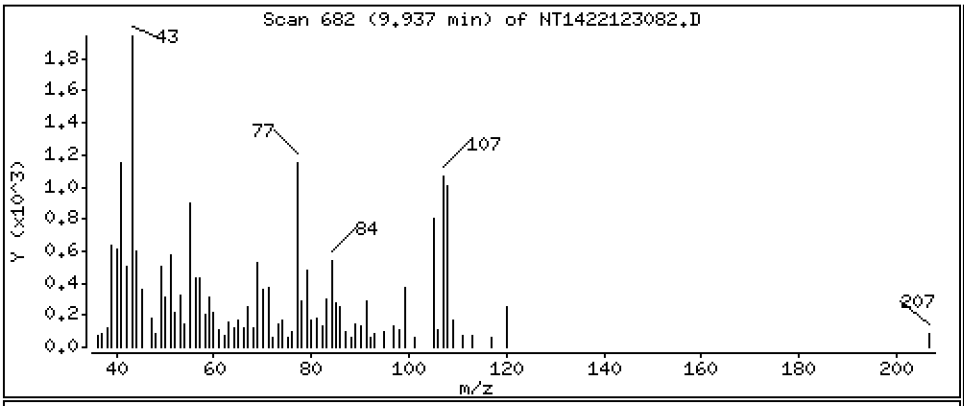
Operator: VTS

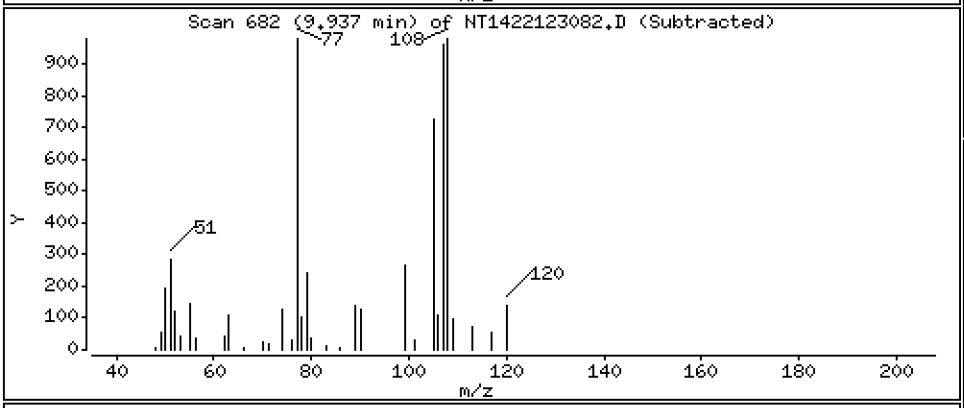
Column phase: ZB-5msi

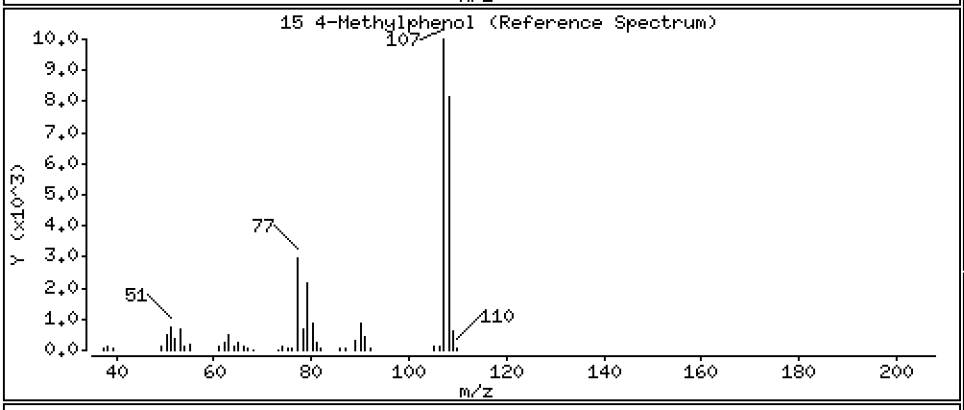
Column diameter: 0.25

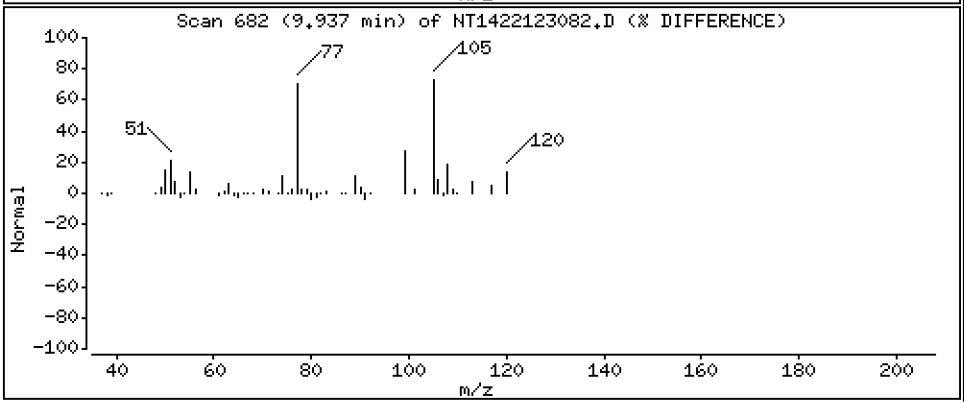
15 4-Methylphenol

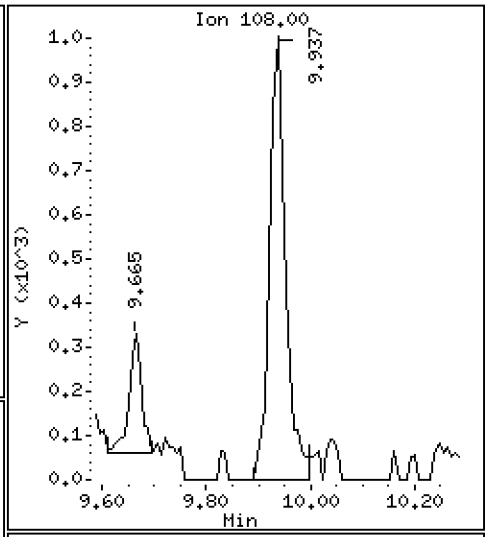
Concentration: 0.07013 ug/mL

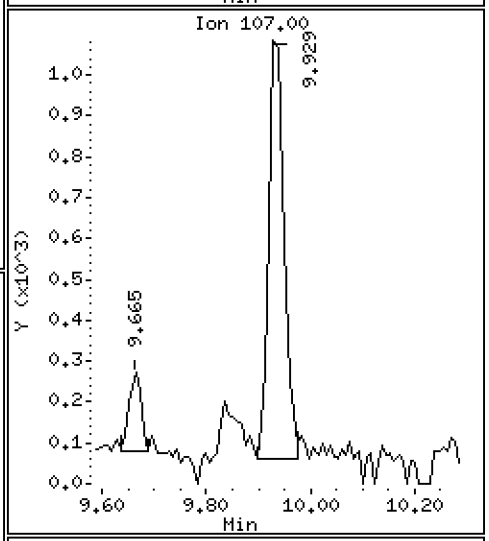


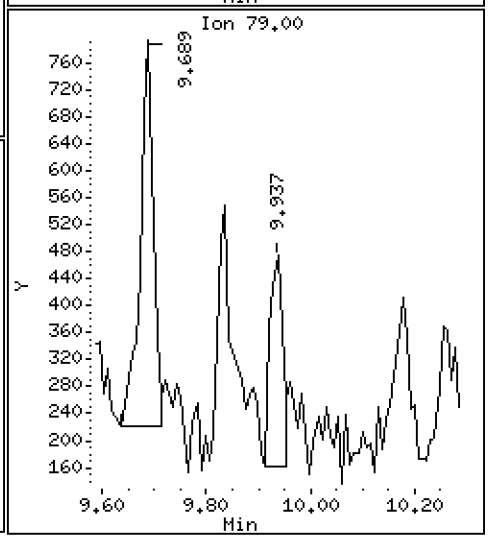












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Date : 01-JAN-2023 09:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-12

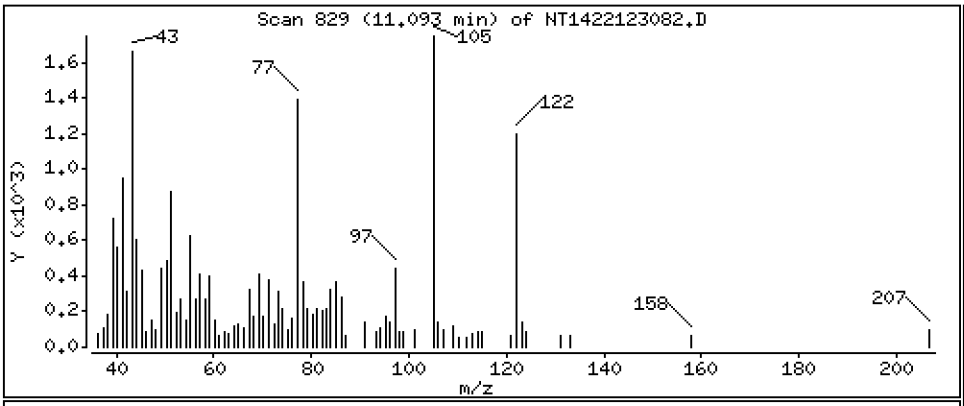
Operator: VTS

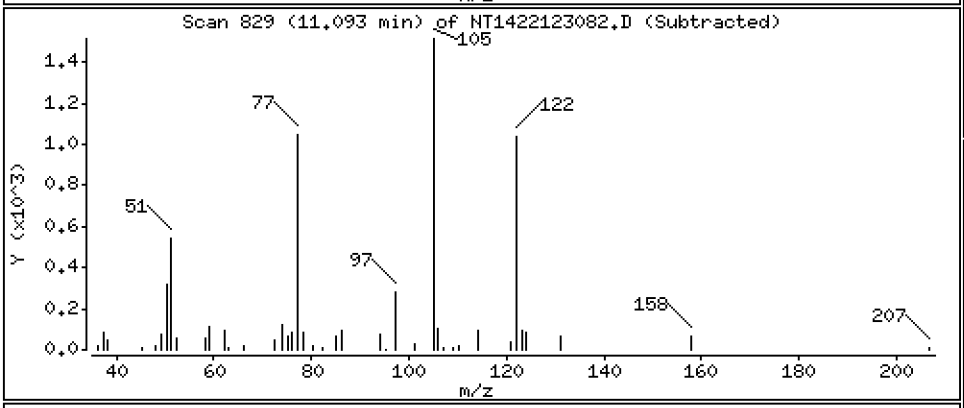
Column phase: ZB-5msi

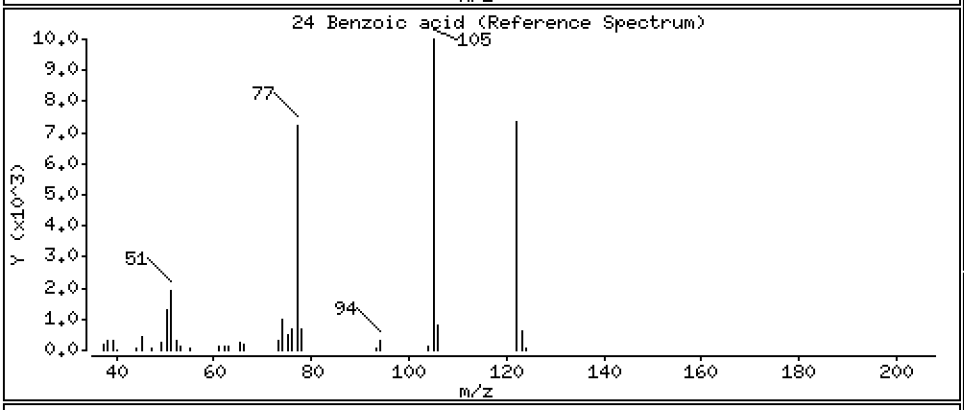
Column diameter: 0.25

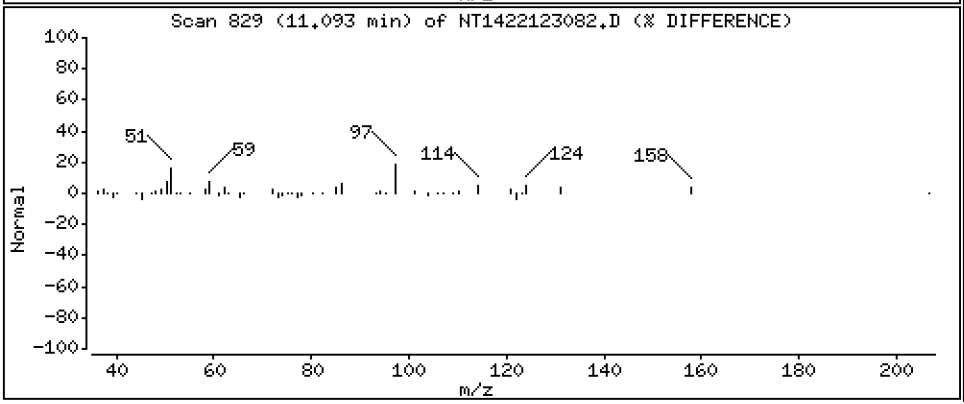
24 Benzoic acid

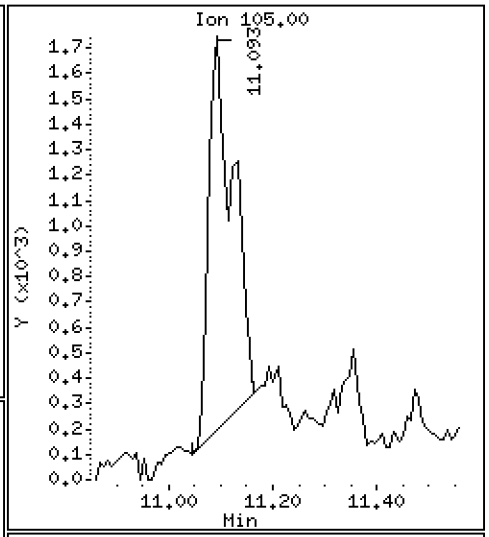
Concentration: 0.3061 ug/mL

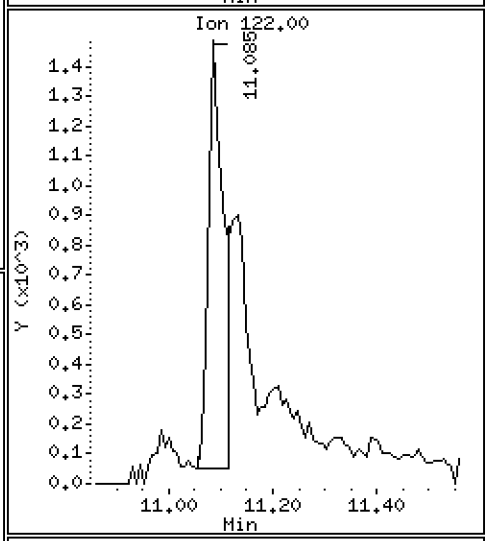


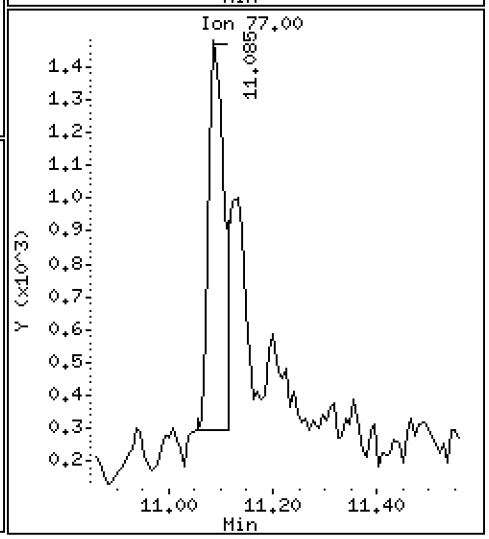












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Date : 01-JAN-2023 09:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-12

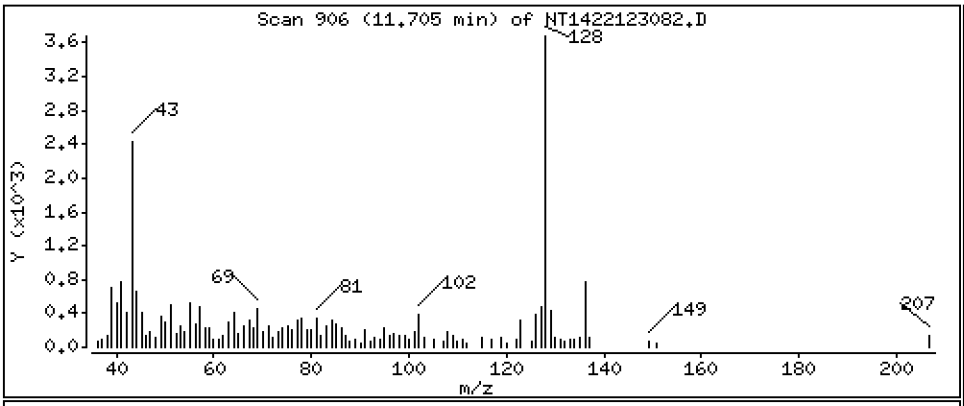
Operator: VTS

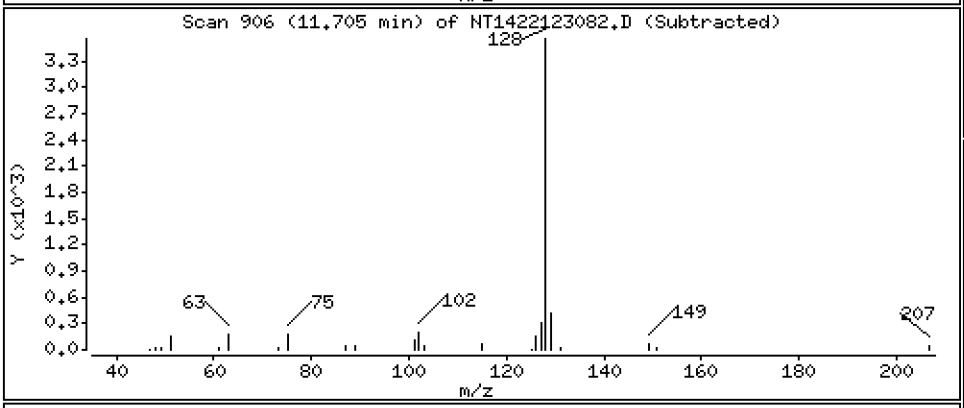
Column phase: ZB-5msi

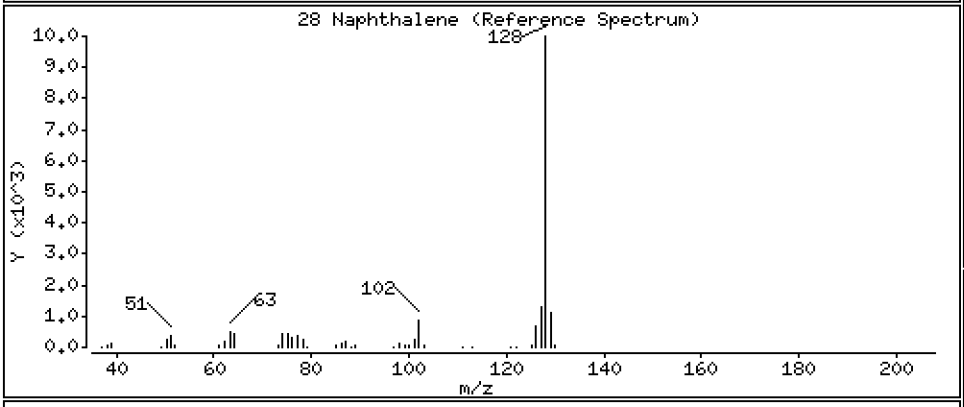
Column diameter: 0.25

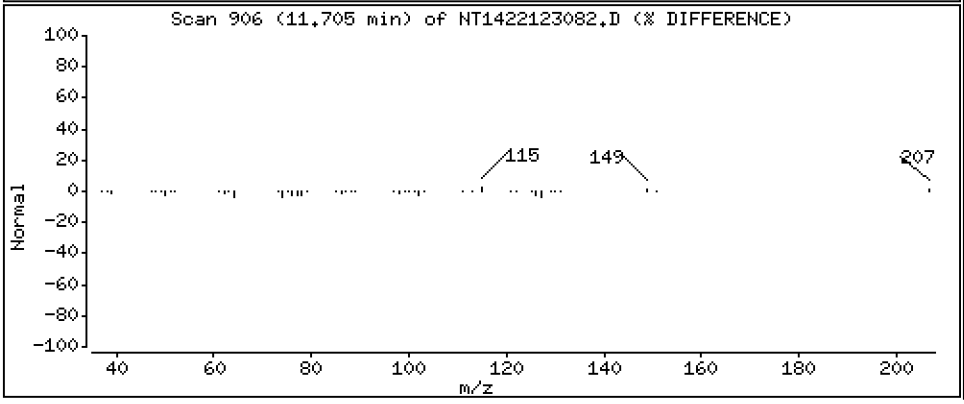
28 Naphthalene

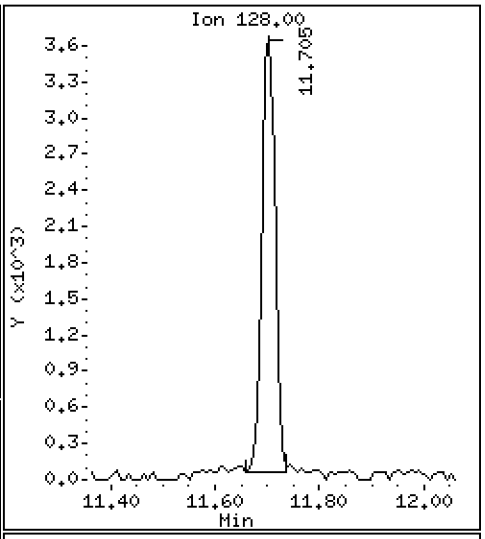
Concentration: 0.07840 ug/mL

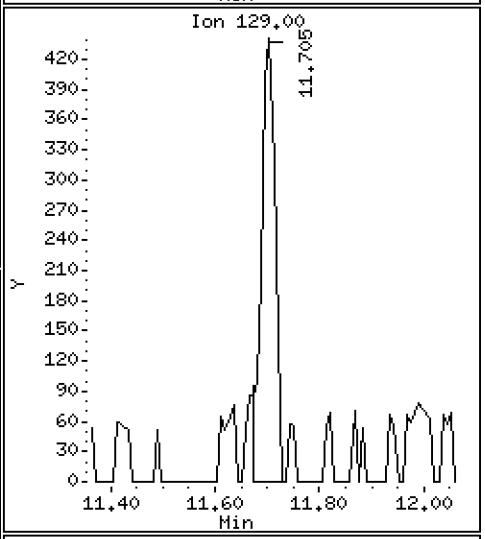


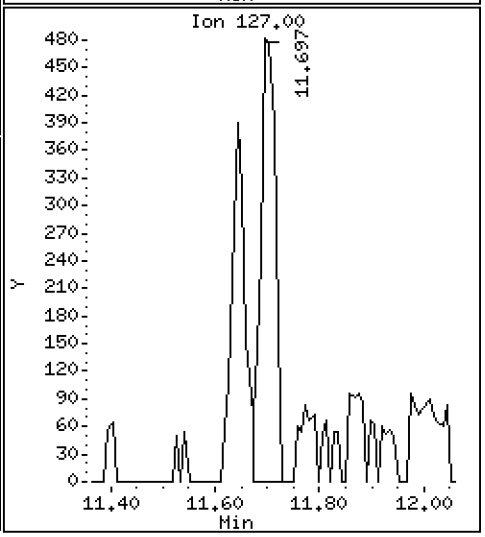












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Date : 01-JAN-2023 09:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-12

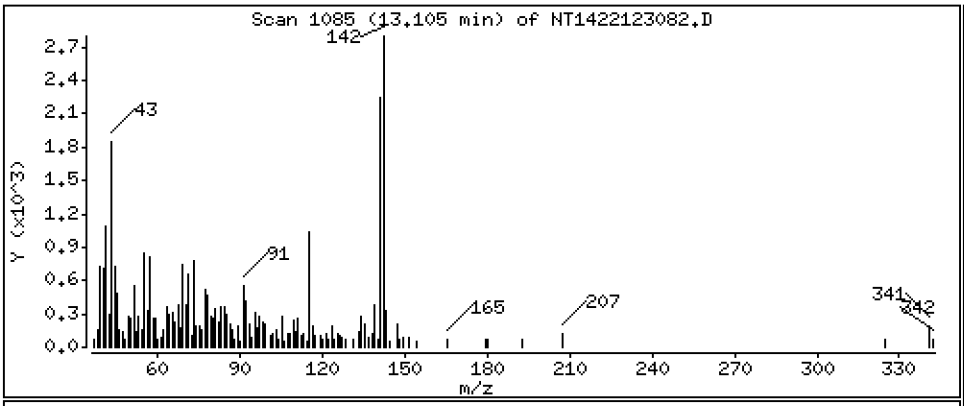
Operator: VTS

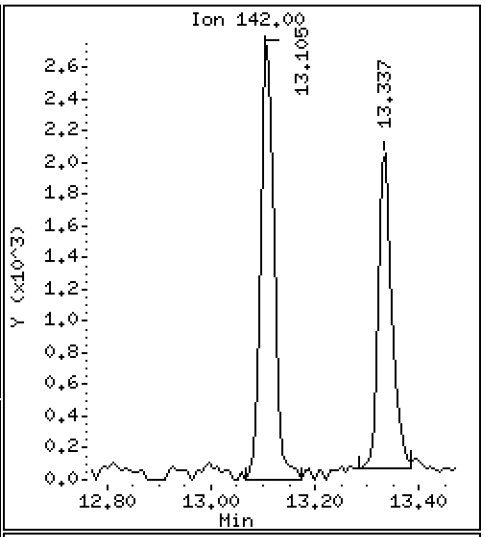
Column phase: ZB-5msi

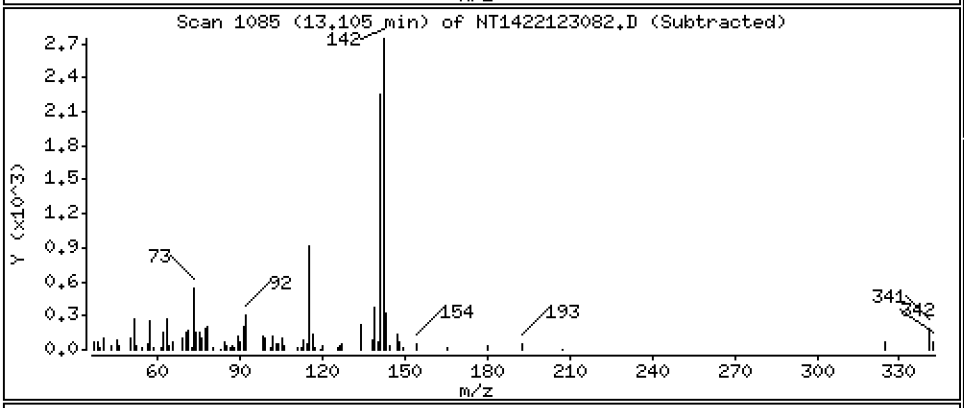
Column diameter: 0.25

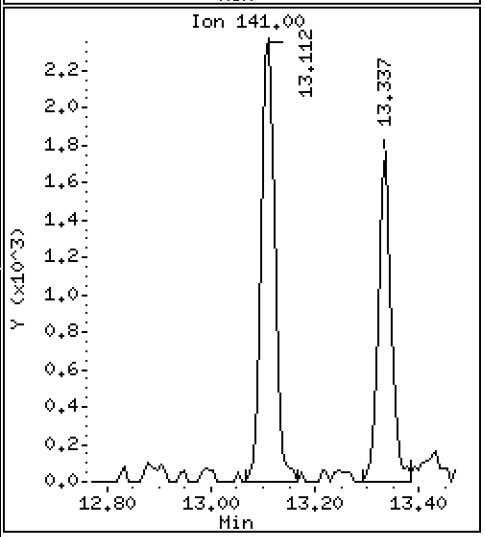
32 2-Methylnaphthalene

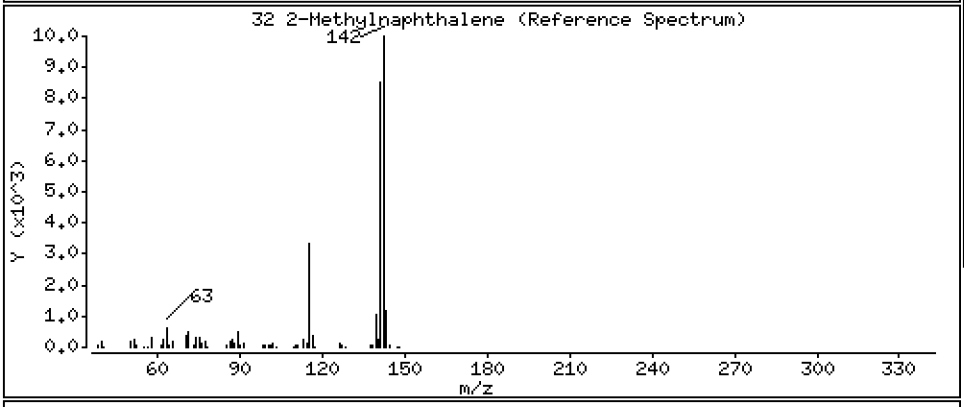
Concentration: 0.08514 ug/mL

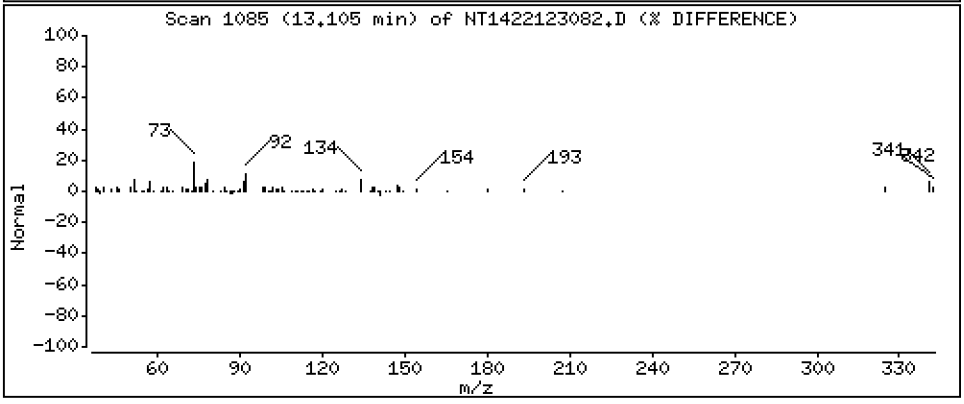












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123082.D

Date : 01-JAN-2023 09:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-12

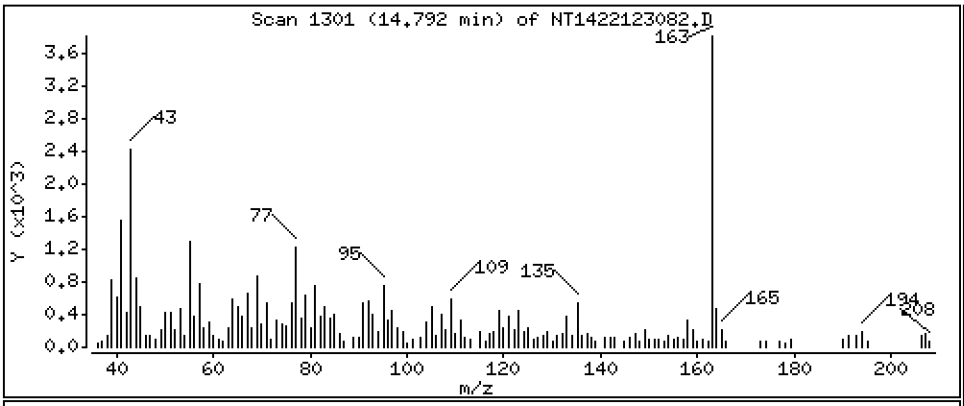
Operator: VTS

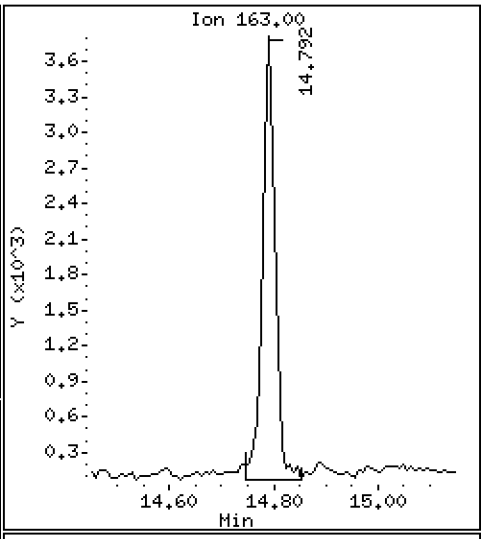
Column phase: ZB-5msi

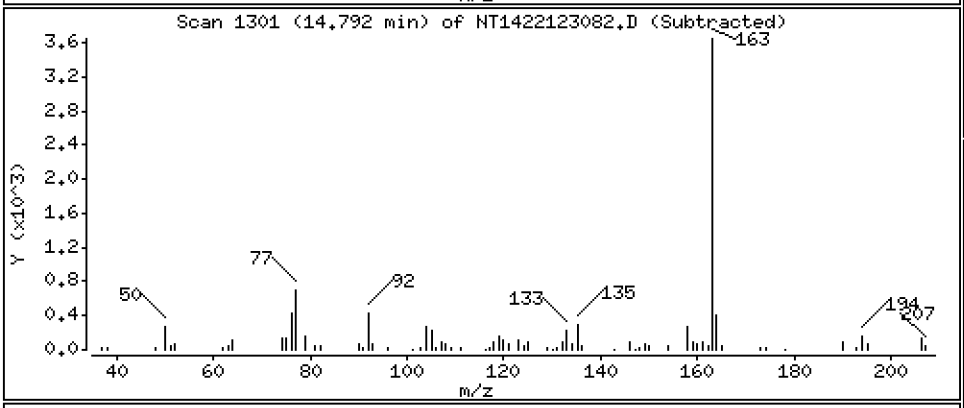
Column diameter: 0.25

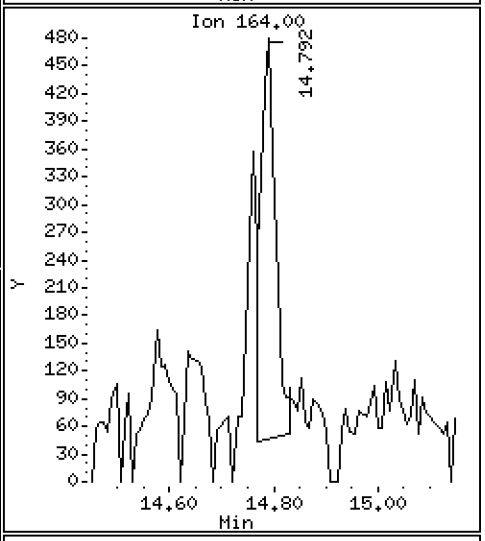
39 Dimethylphthalate

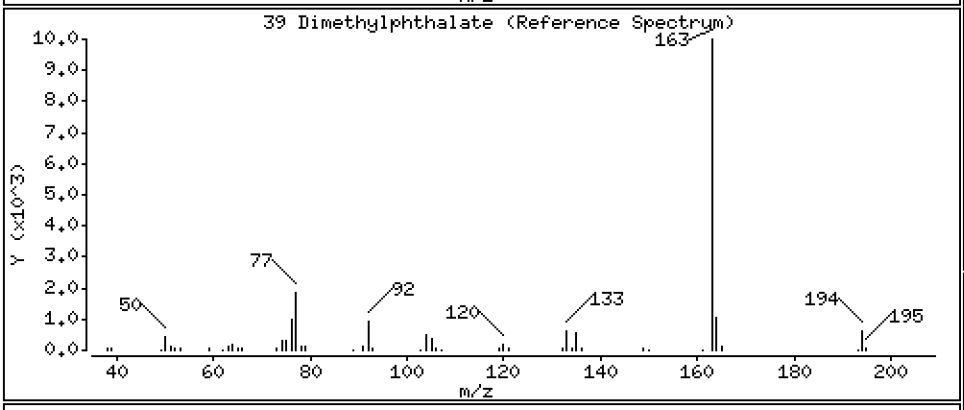
Concentration: 0.1405 ug/mL

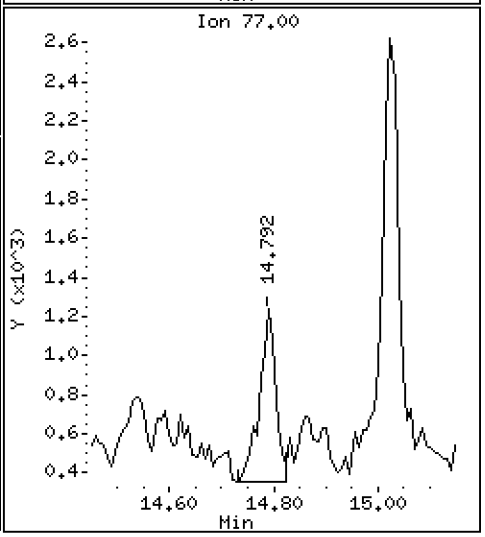


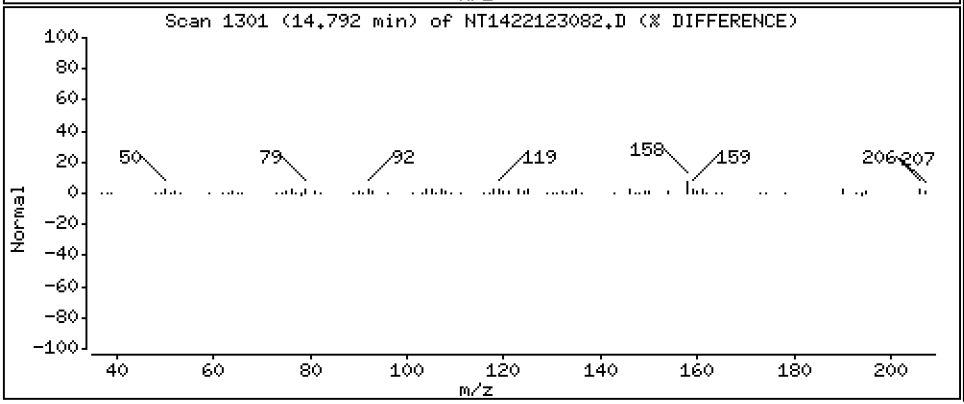












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123082.D

Date : 01-JAN-2023 09:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-12

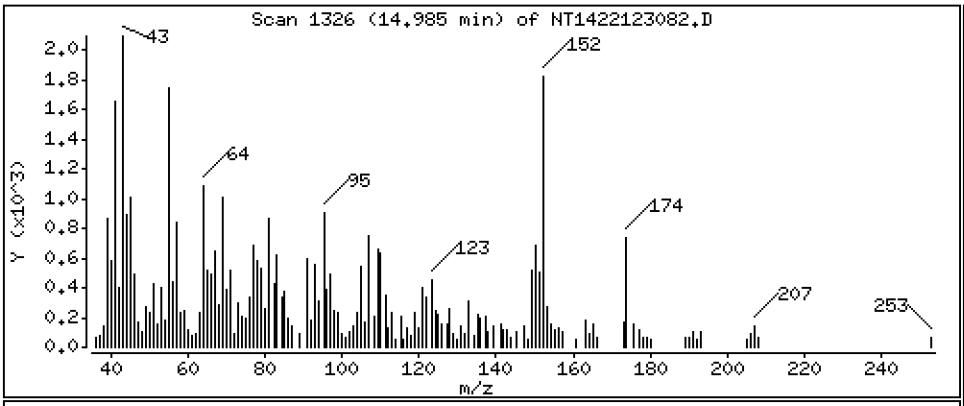
Operator: VTS

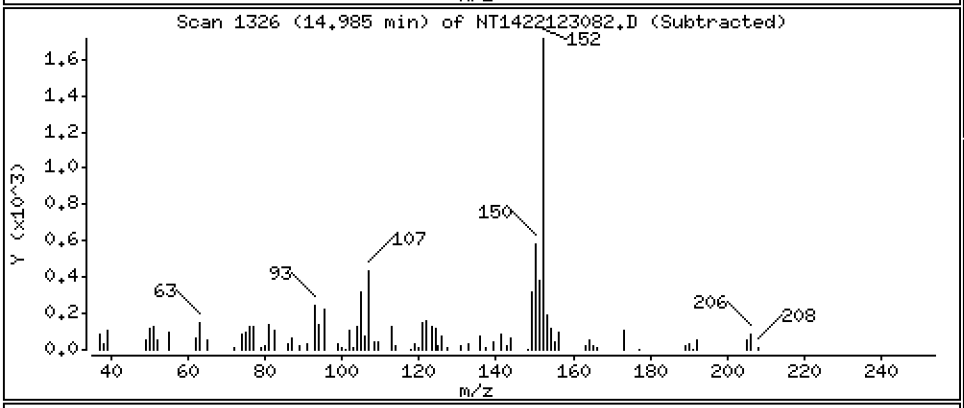
Column phase: ZB-5msi

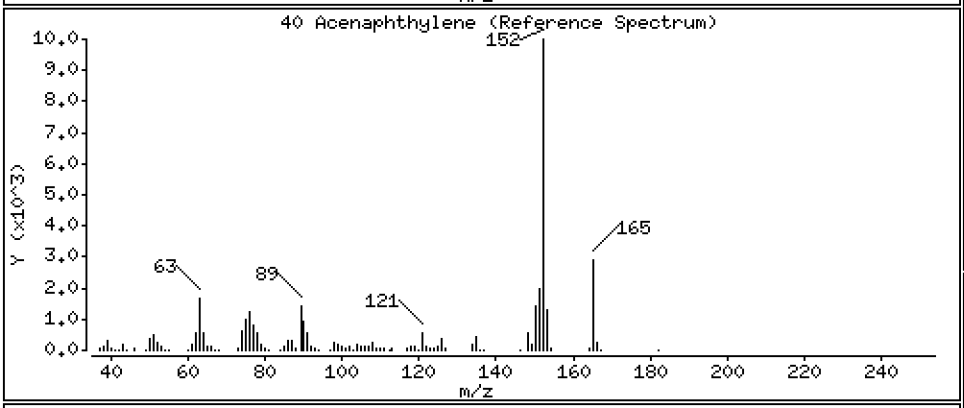
Column diameter: 0.25

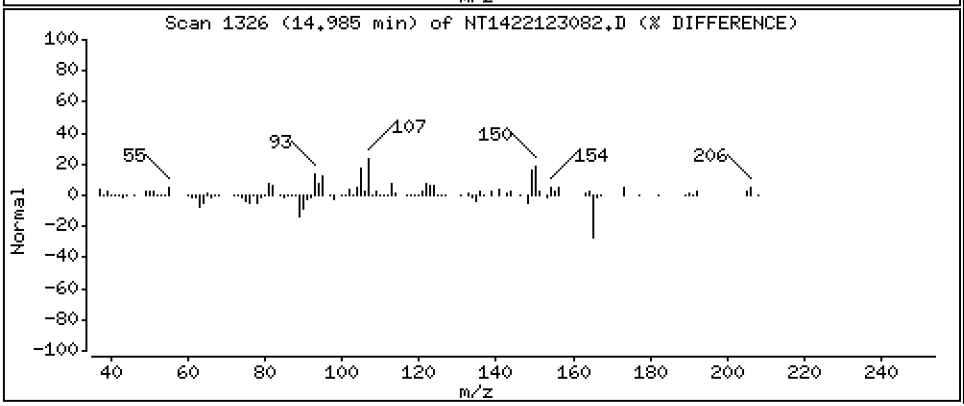
40 Acenaphthylene

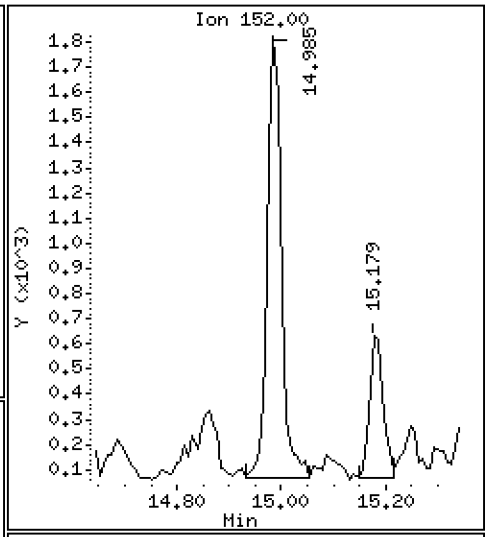
Concentration: 0.04599 ug/mL

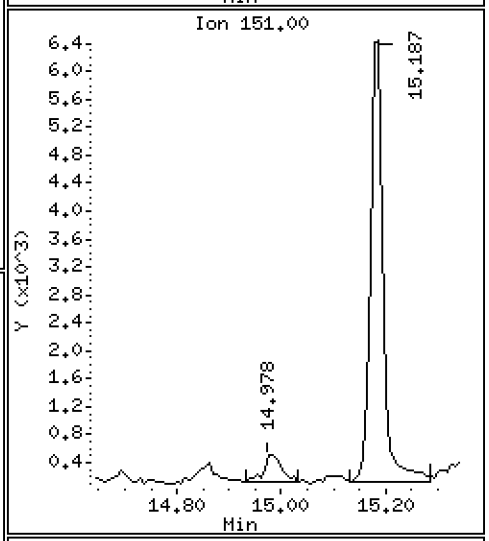


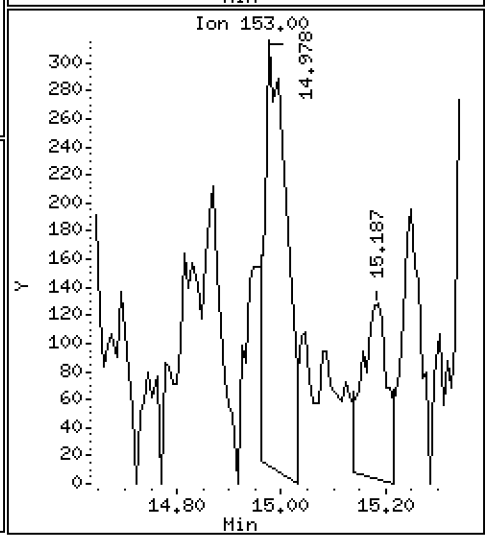












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Date : 01-JAN-2023 09:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-12

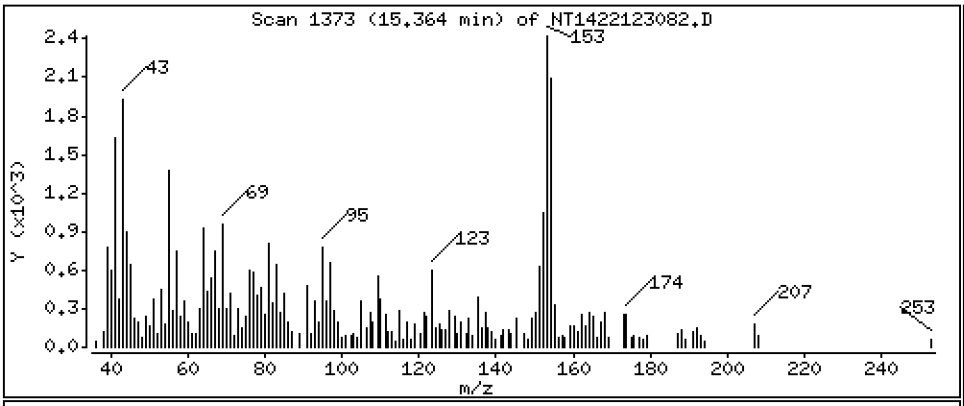
Operator: VTS

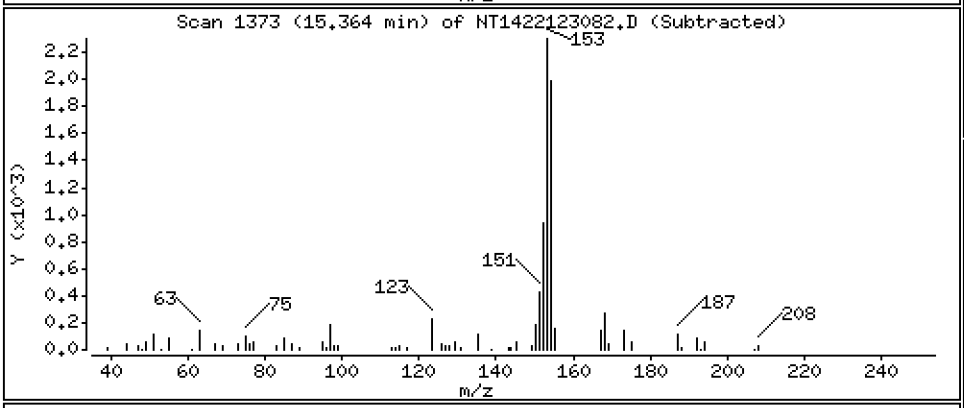
Column phase: ZB-5msi

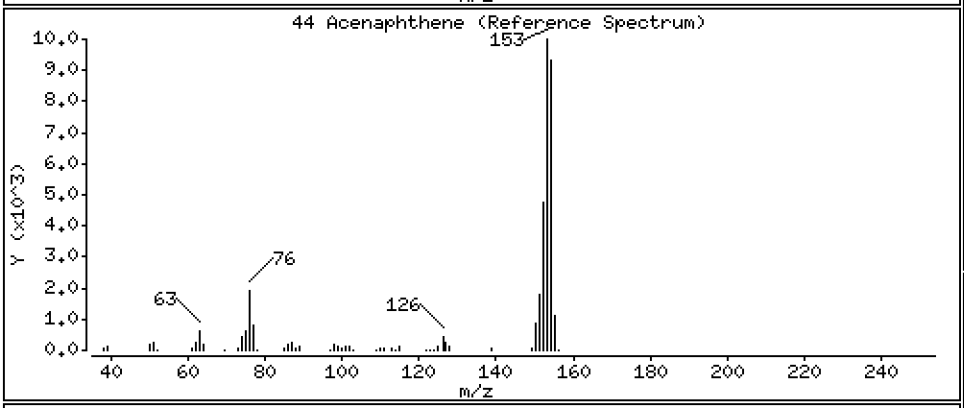
Column diameter: 0.25

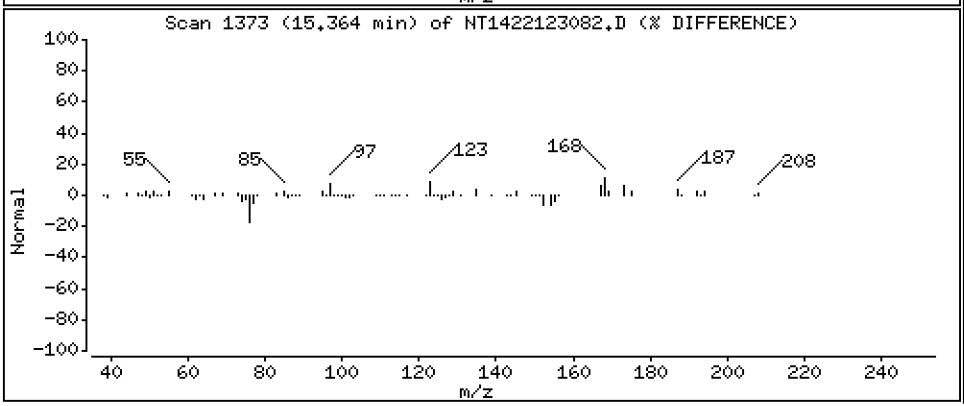
44 Acenaphthene

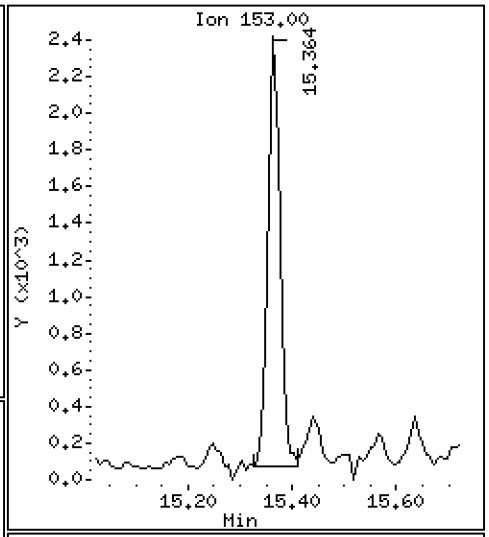
Concentration: 0.08425 ug/mL

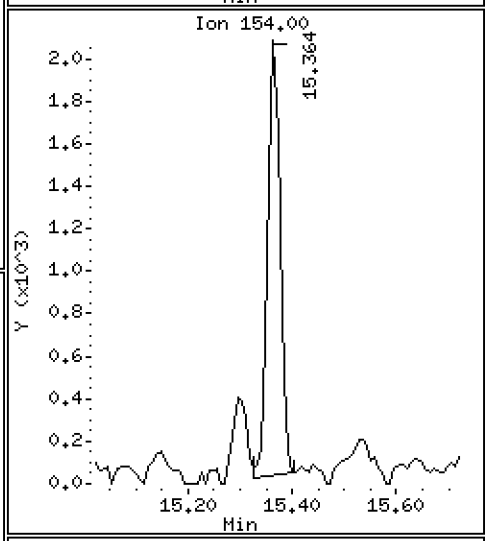


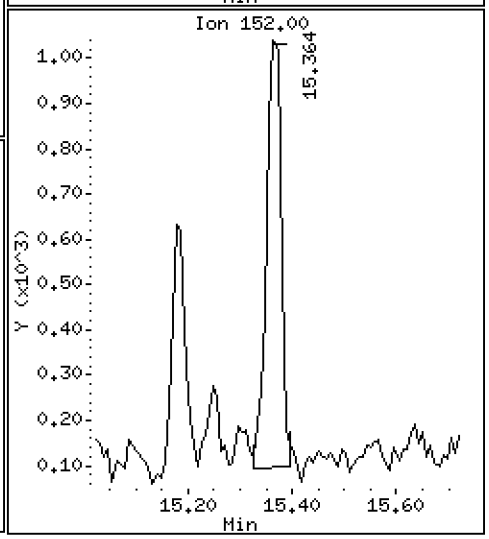












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Date : 01-JAN-2023 09:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-12

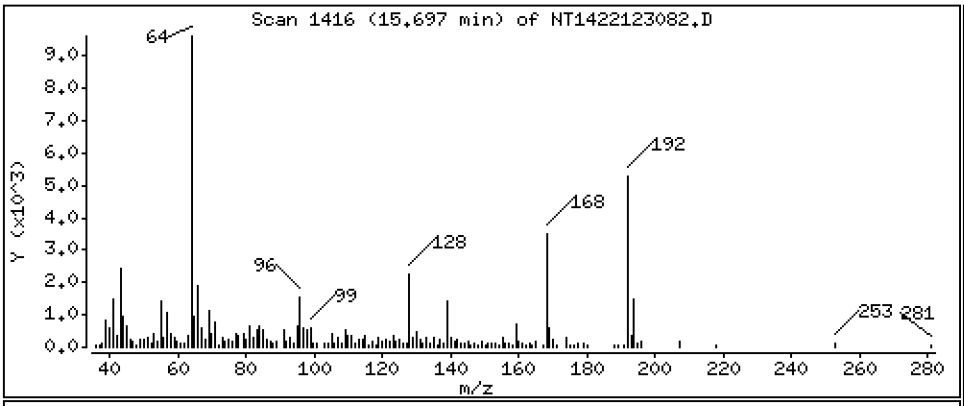
Operator: VTS

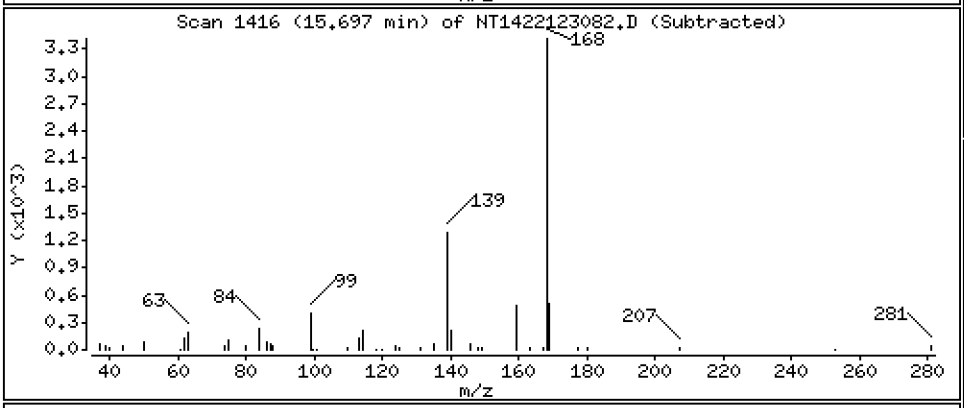
Column phase: ZB-5msi

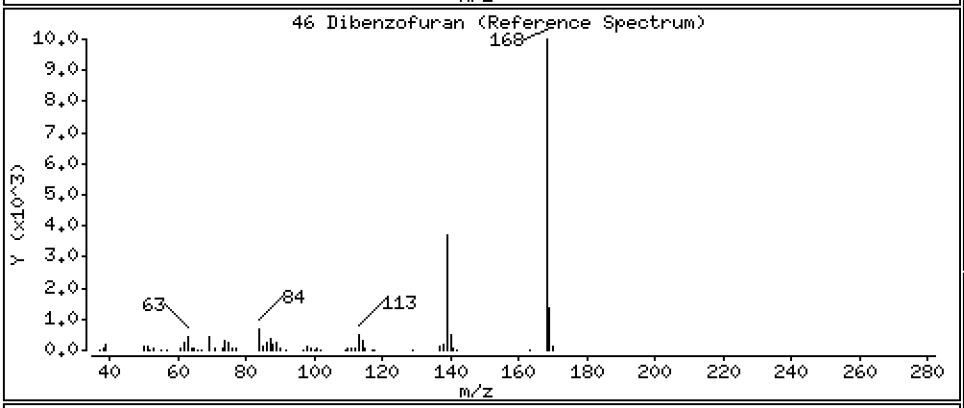
Column diameter: 0.25

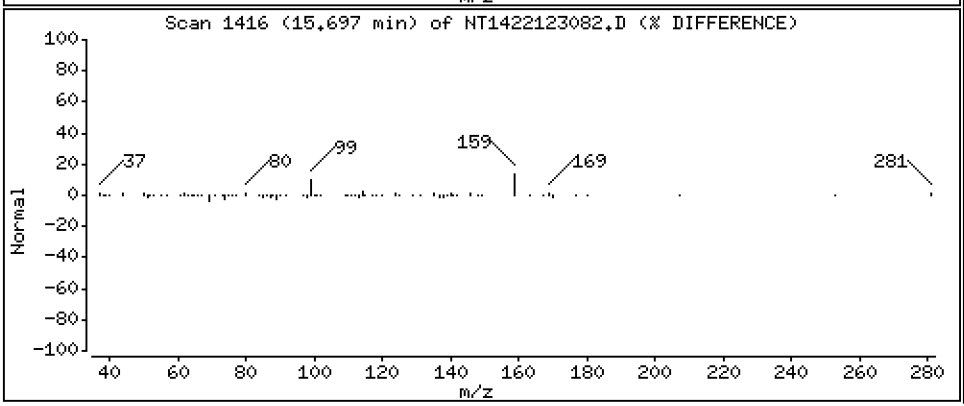
46 Dibenzofuran

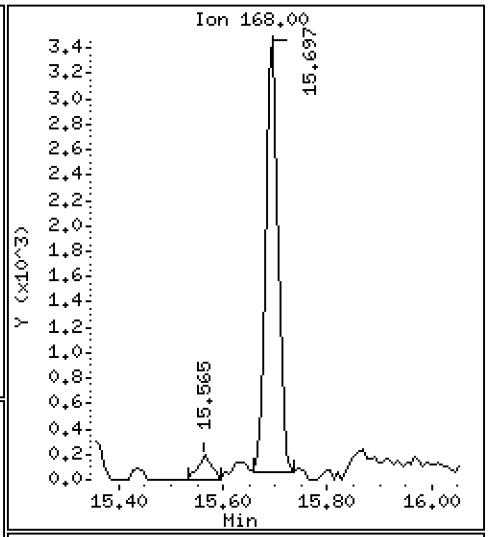
Concentration: 0.08717 ug/mL

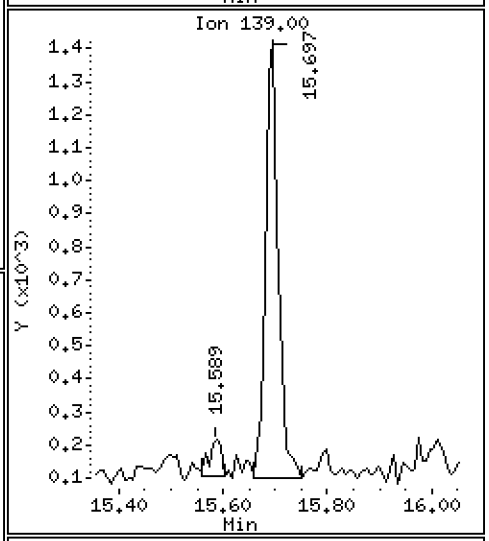


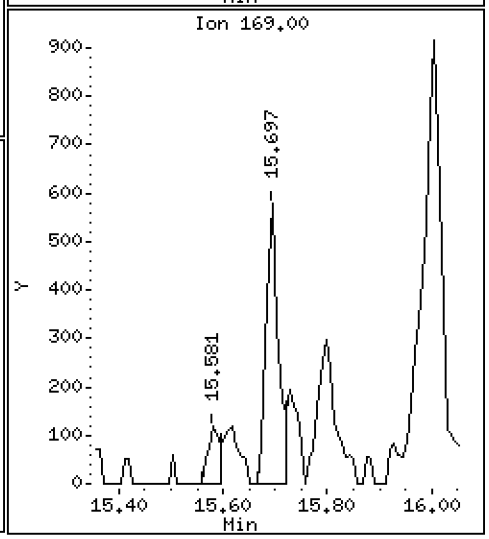












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Date : 01-JAN-2023 09:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-12

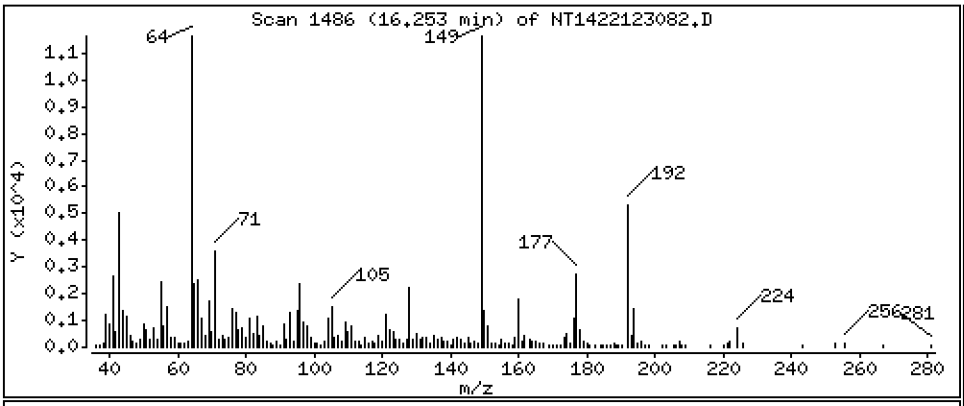
Operator: VTS

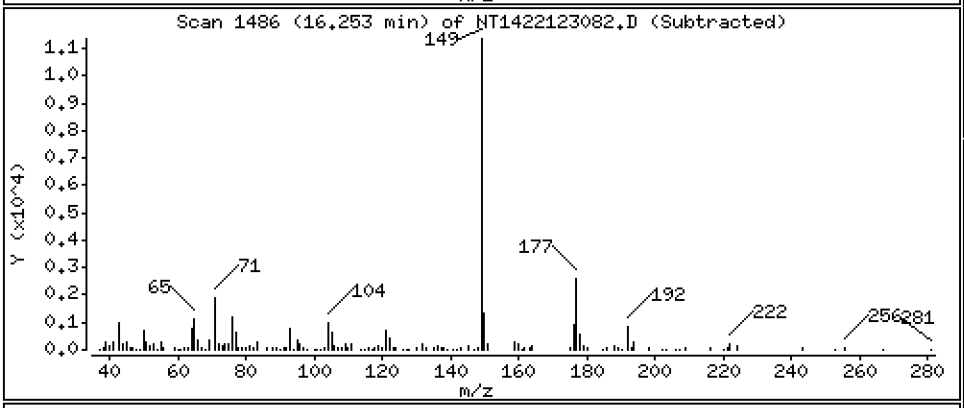
Column phase: ZB-5msi

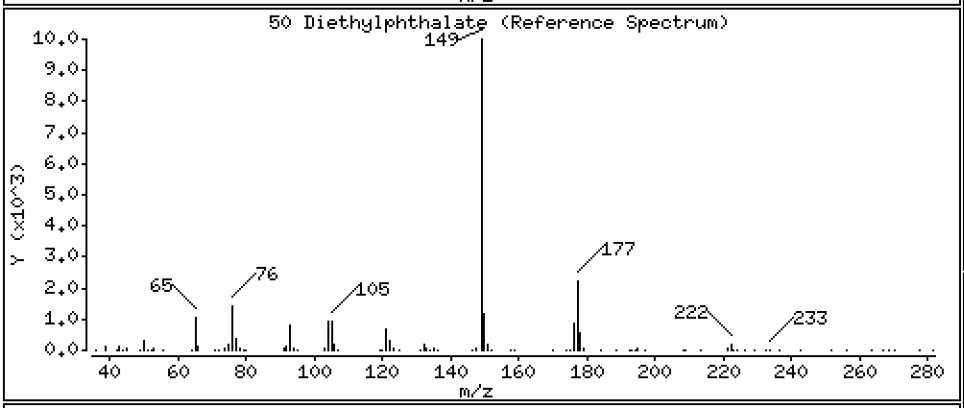
Column diameter: 0.25

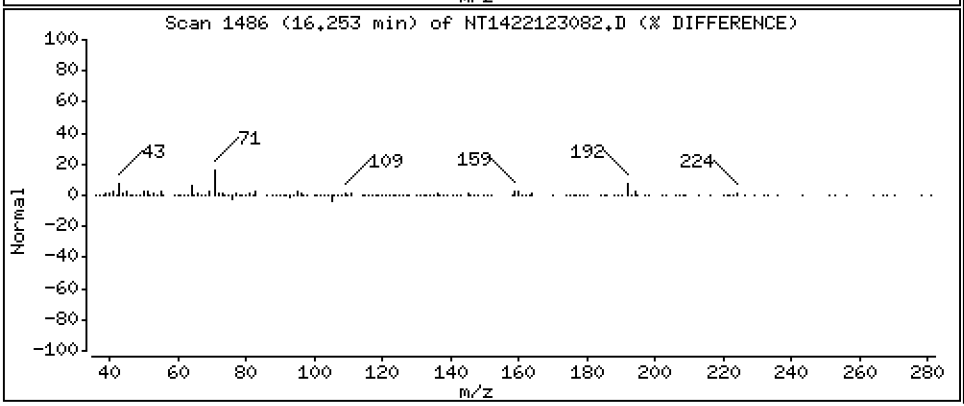
50 Diethylphthalate

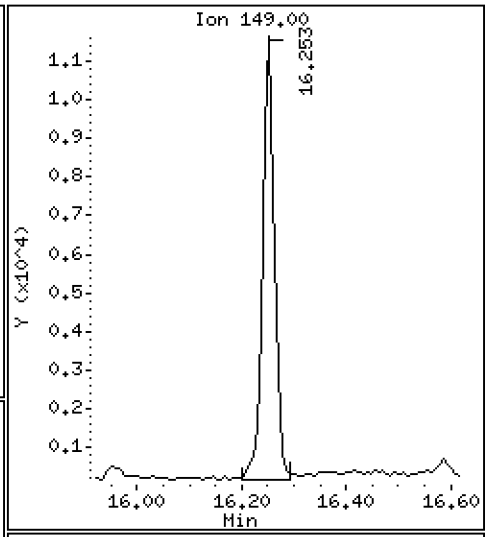
Concentration: 0.3447 ug/mL

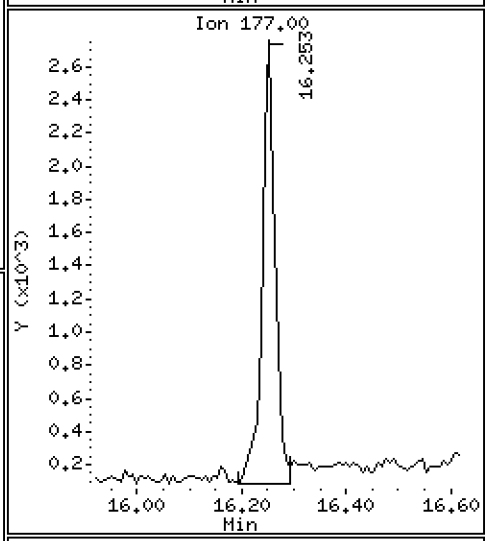


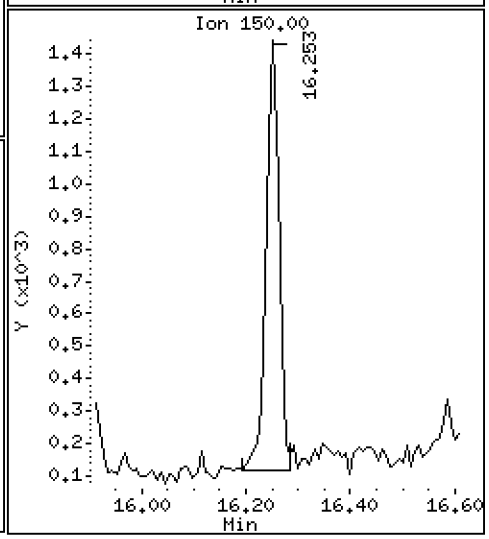












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Date : 01-JAN-2023 09:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-12

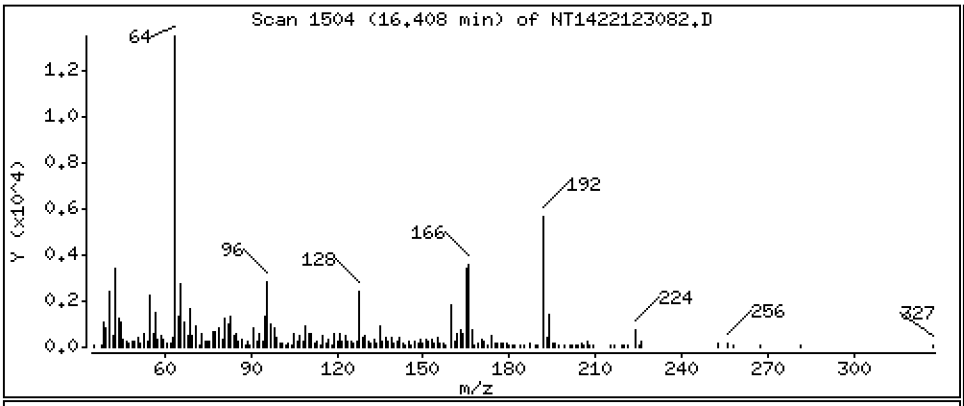
Operator: VTS

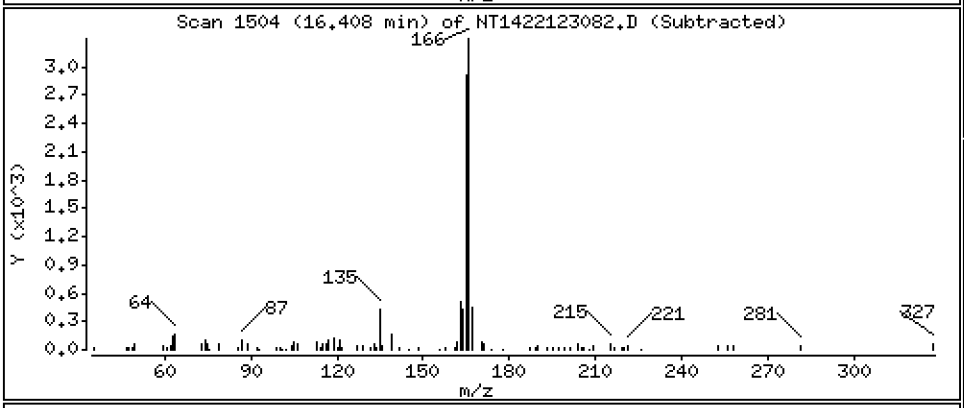
Column phase: ZB-5msi

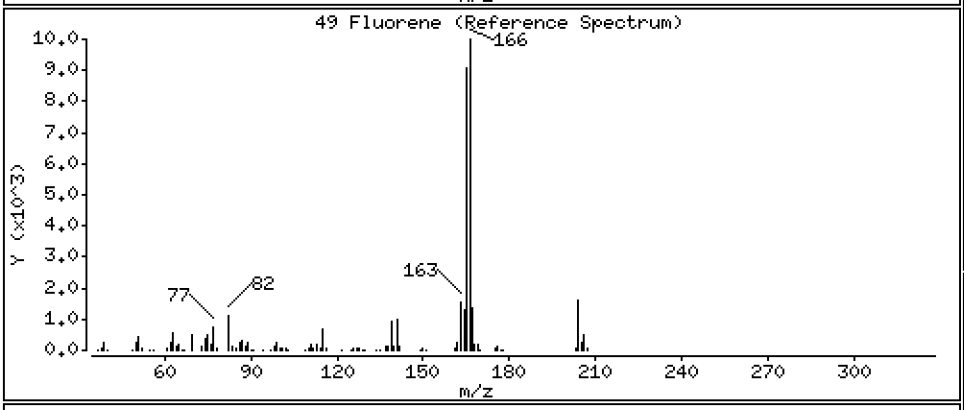
Column diameter: 0.25

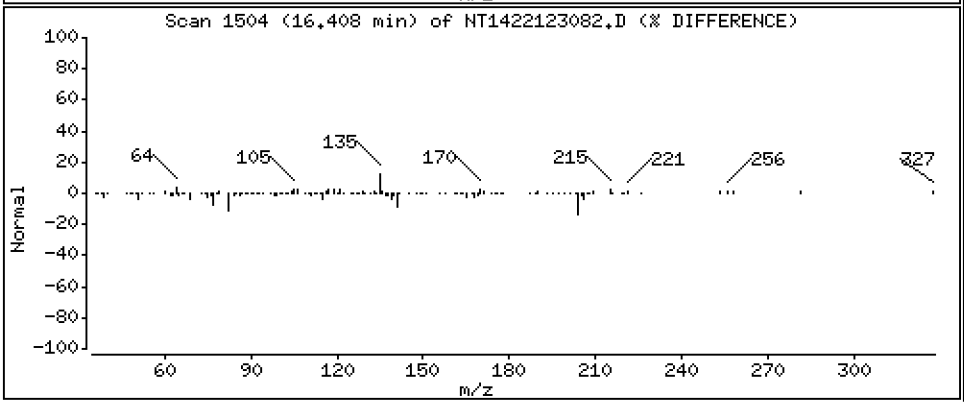
49 Fluorene

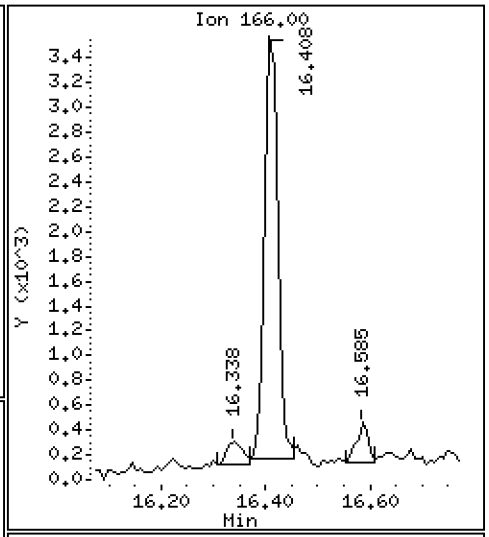
Concentration: 0.08474 ug/mL

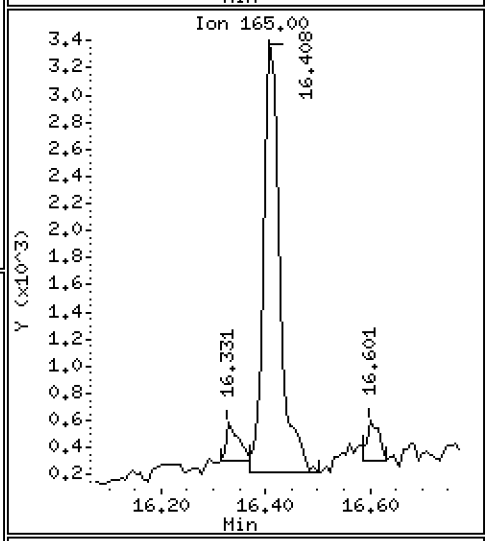


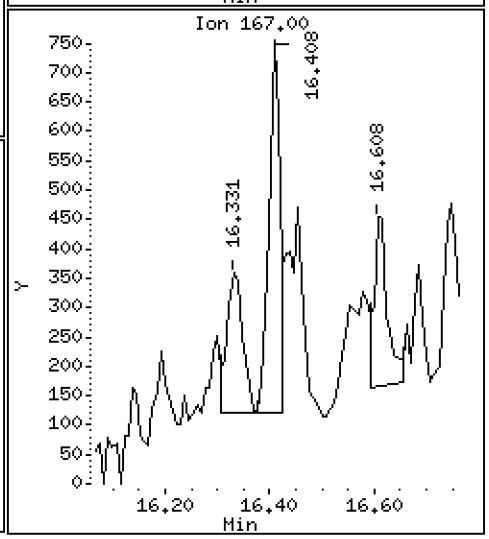












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Date : 01-JAN-2023 09:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-12

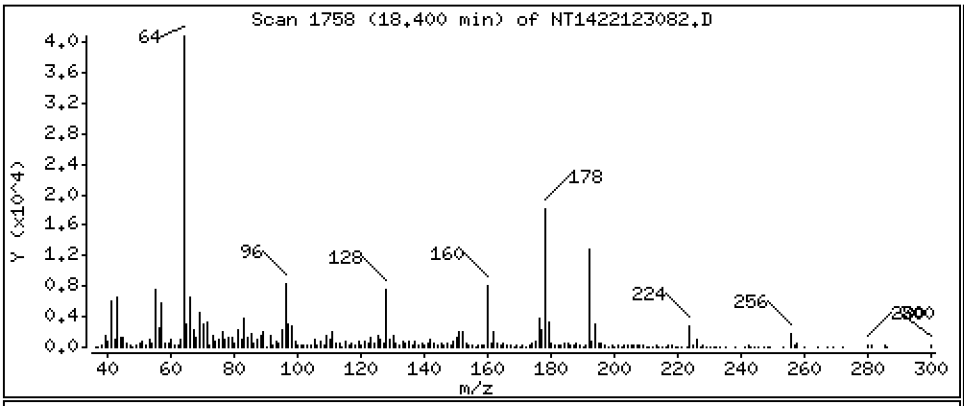
Operator: VTS

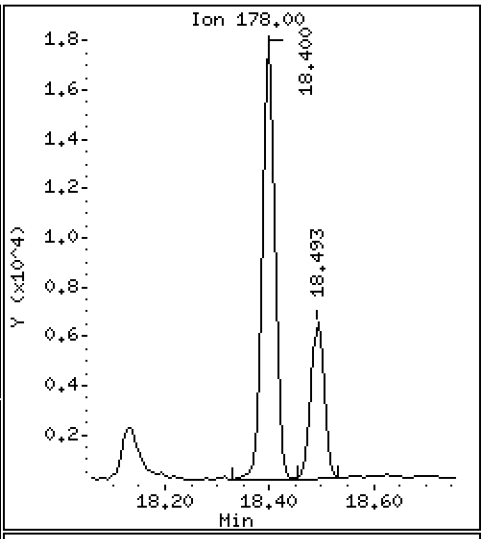
Column phase: ZB-5msi

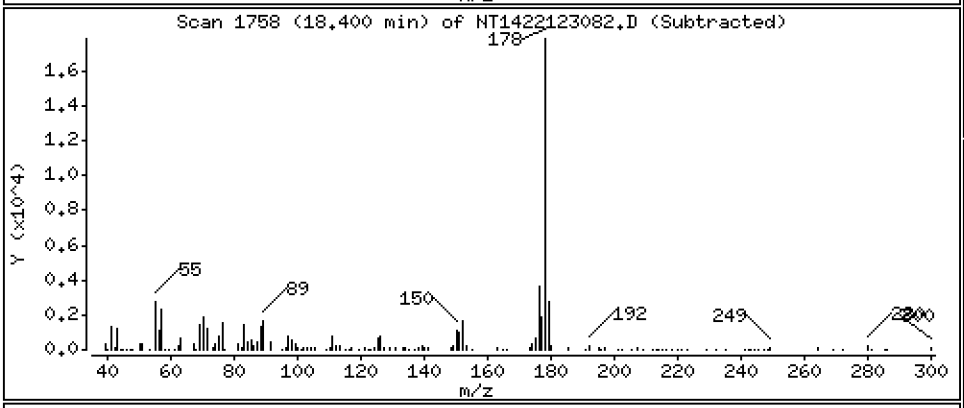
Column diameter: 0.25

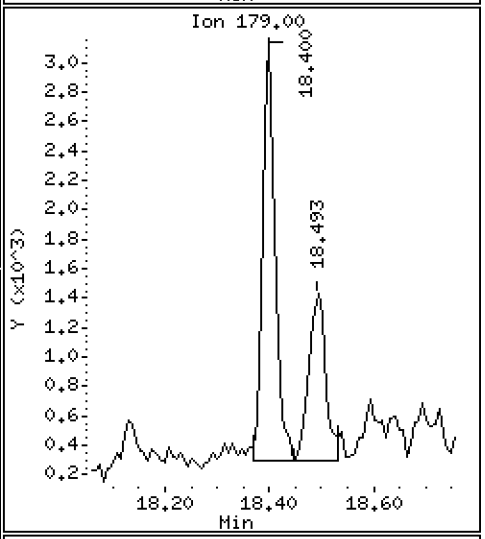
60 Phenanthrene

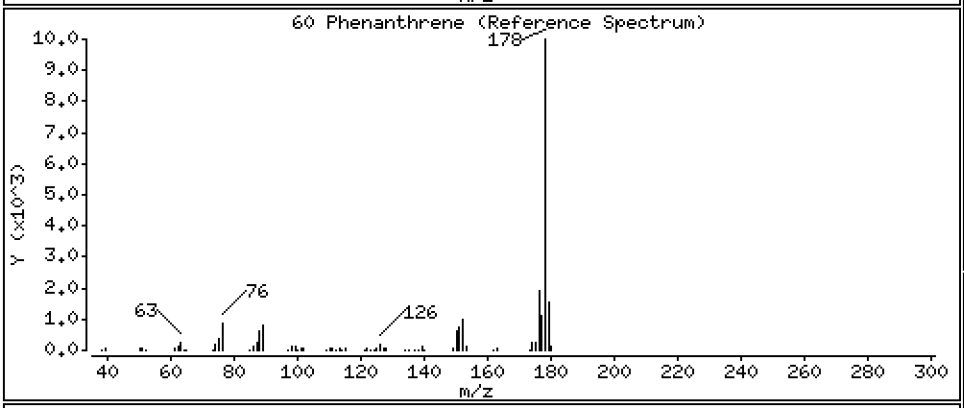
Concentration: 0.4371 ug/mL

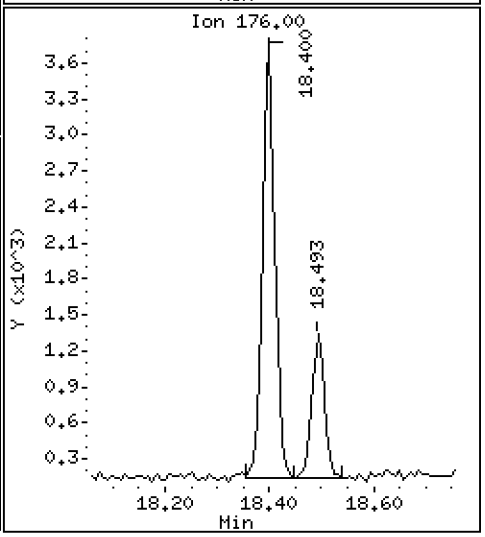


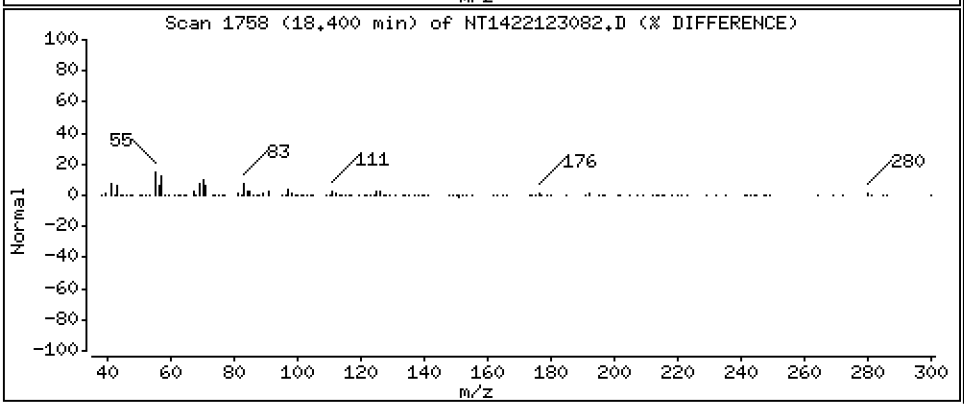












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Date : 01-JAN-2023 09:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-12

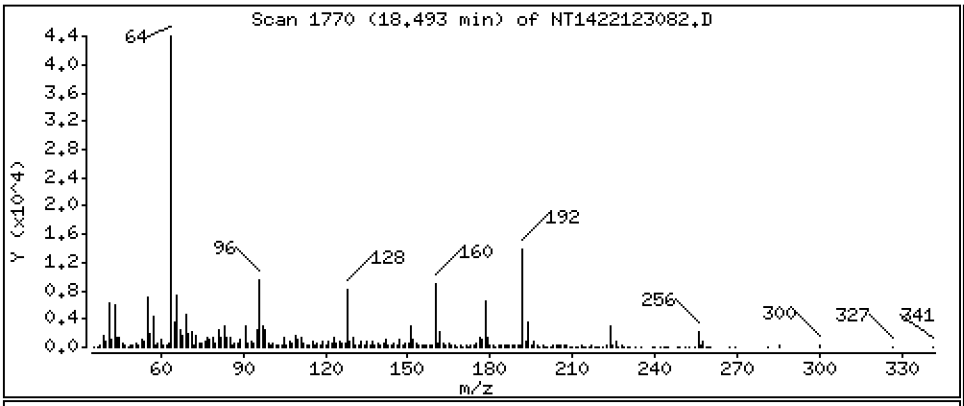
Operator: VTS

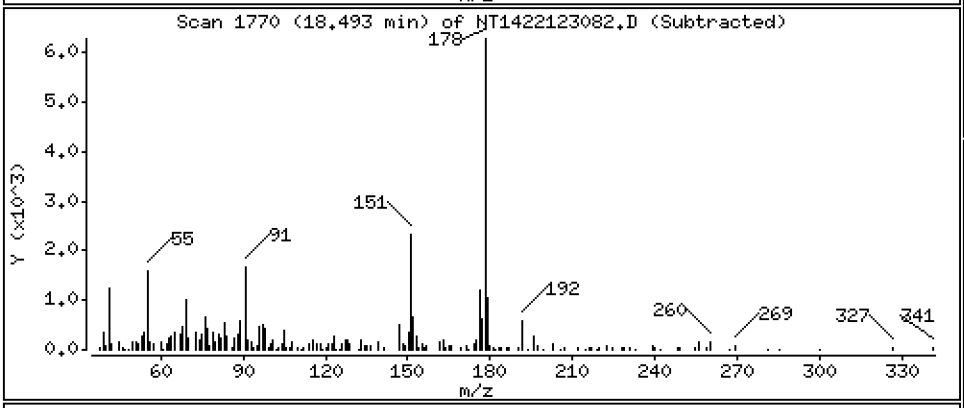
Column phase: ZB-5msi

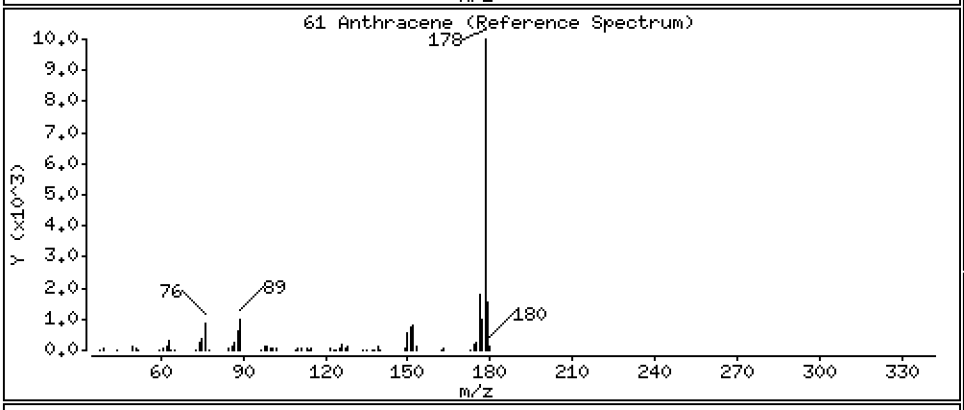
Column diameter: 0.25

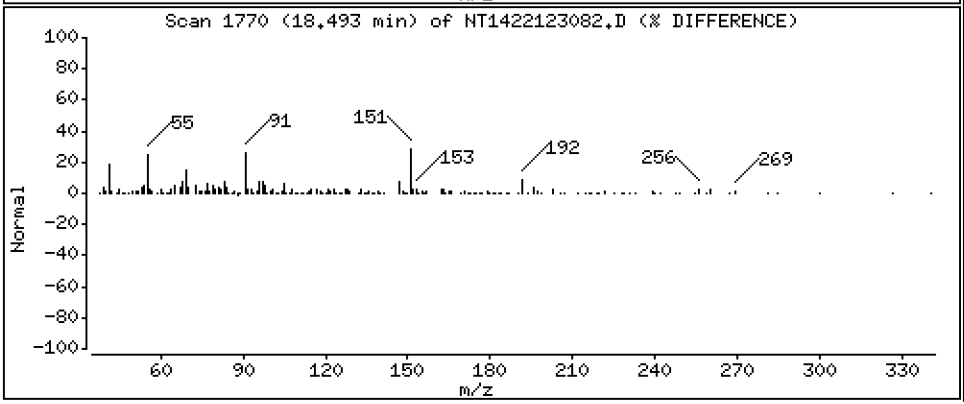
61 Anthracene

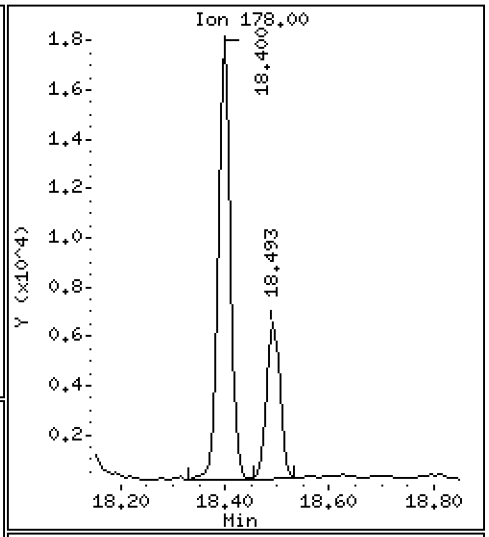
Concentration: 0.1661 ug/mL

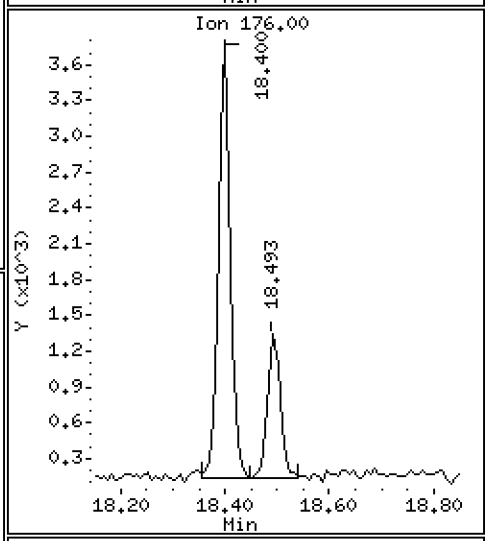


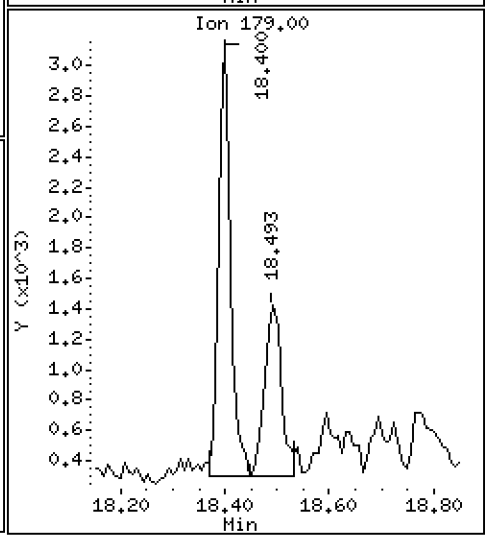












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123082.D

Date : 01-JAN-2023 09:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-12

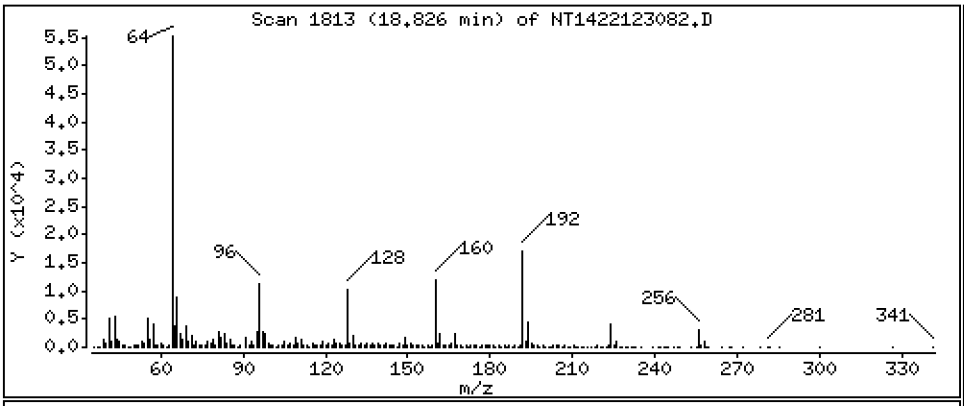
Operator: VTS

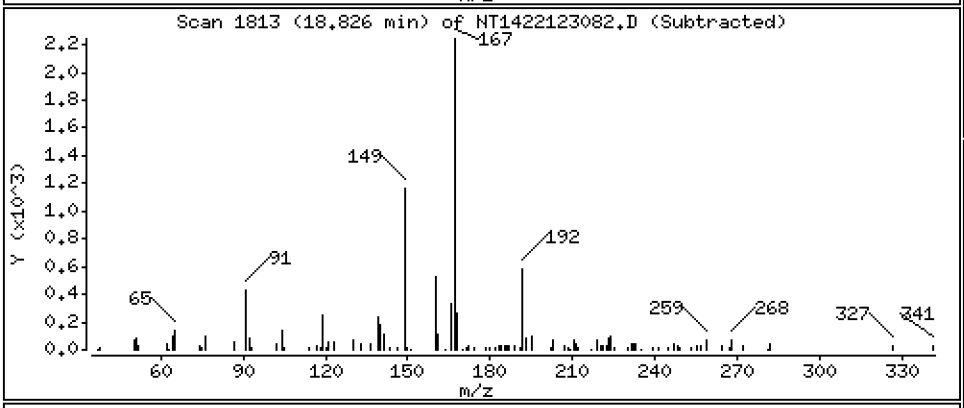
Column phase: ZB-5msi

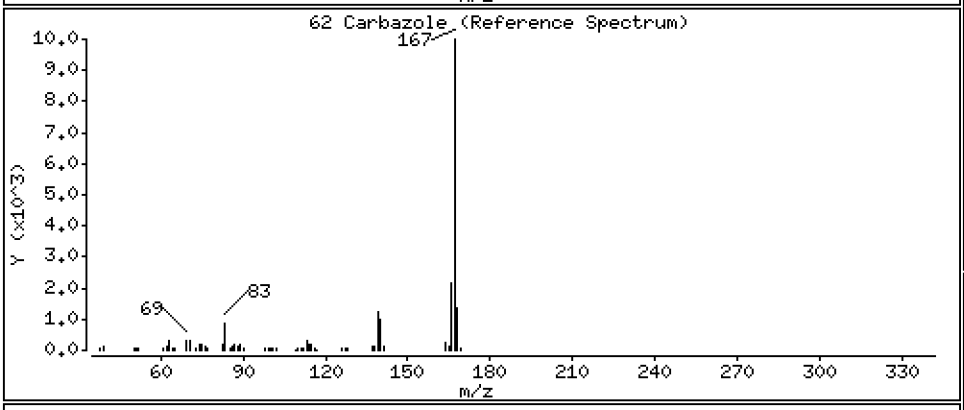
Column diameter: 0.25

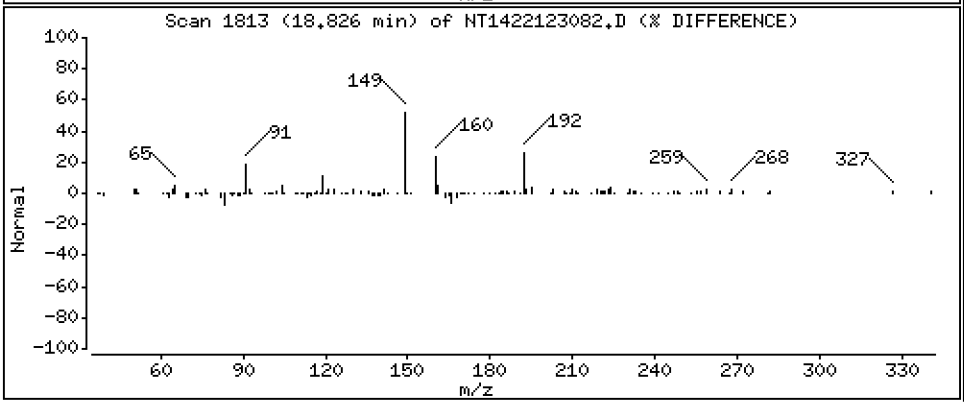
62 Carbazole

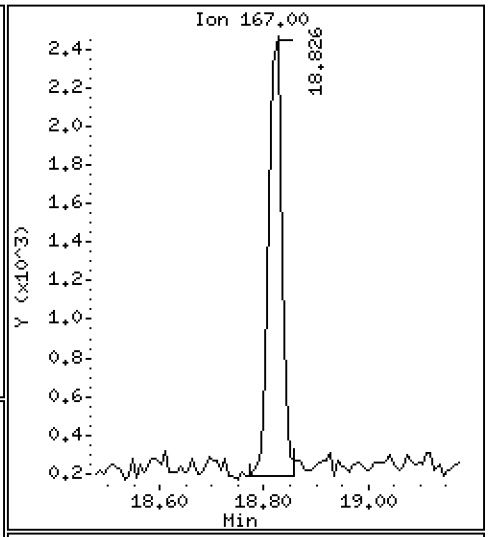
Concentration: 0.06179 ug/mL

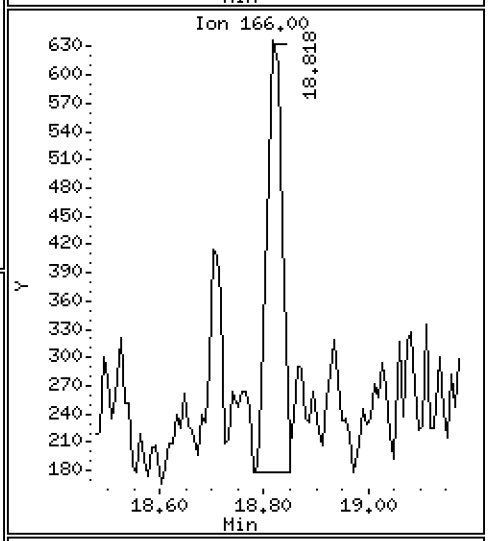


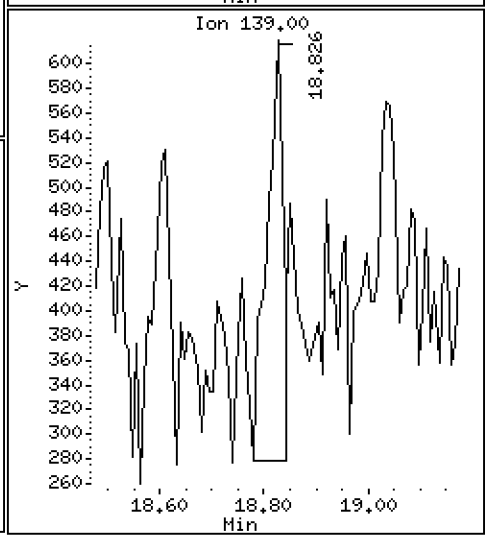












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Date : 01-JAN-2023 09:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-12

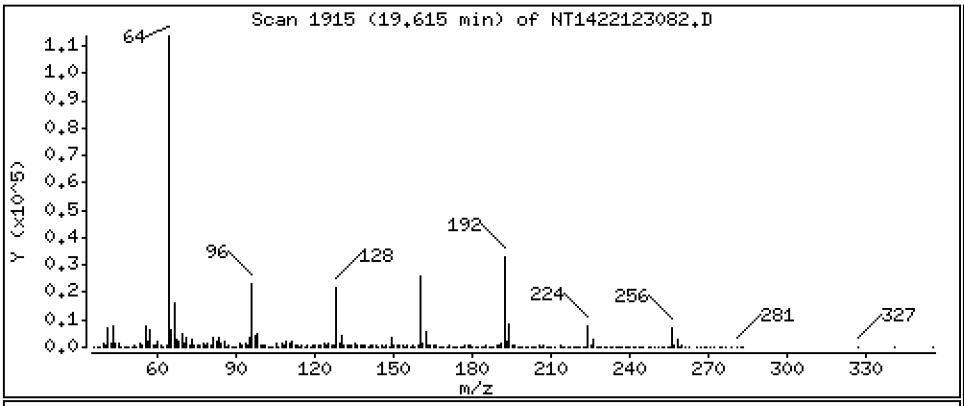
Operator: VTS

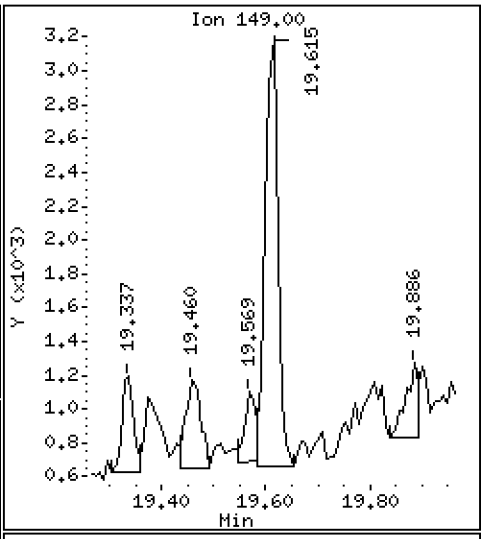
Column phase: ZB-5msi

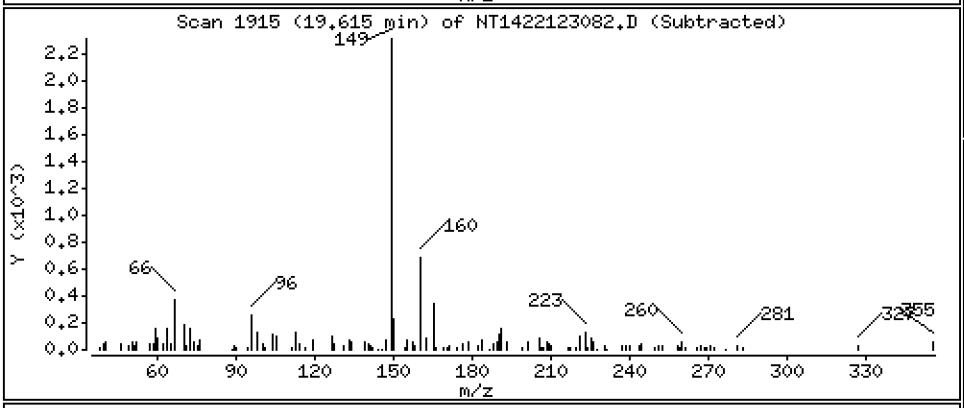
Column diameter: 0.25

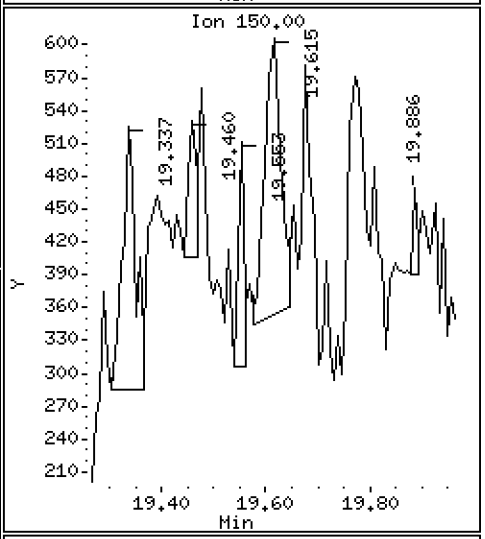
63 Di-n-butylphthalate

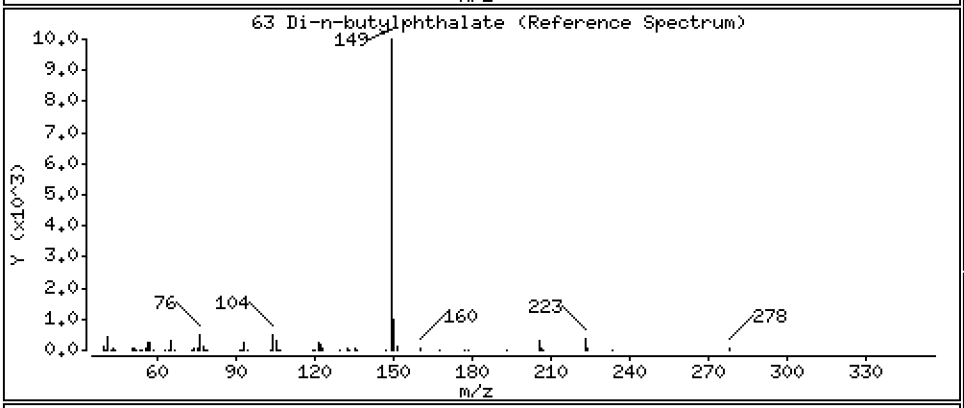
Concentration: 0.05826 ug/mL

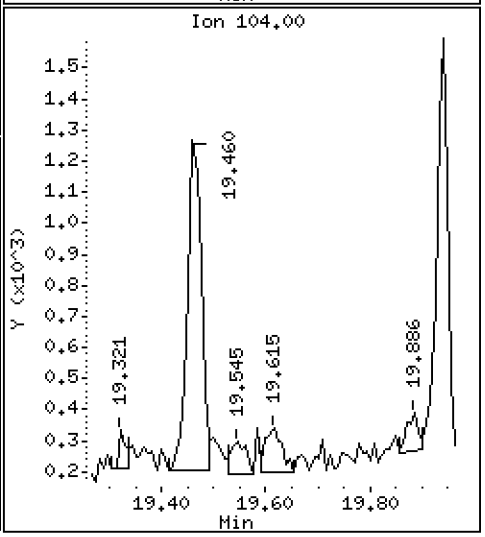


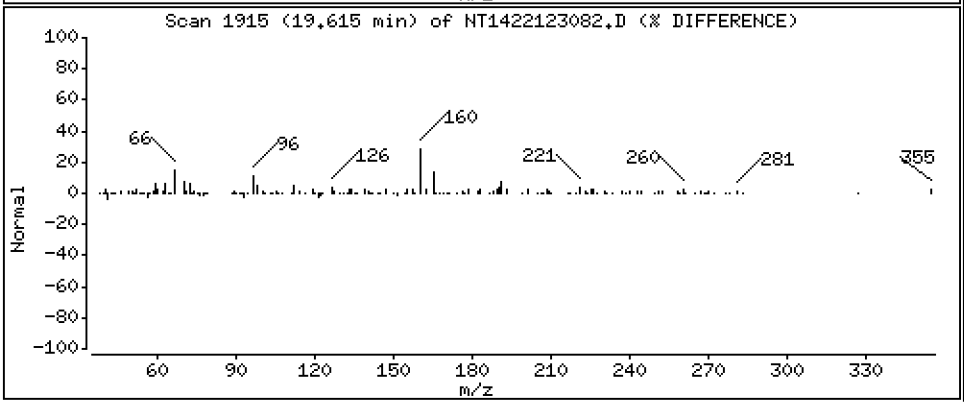












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Date : 01-JAN-2023 09:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-12

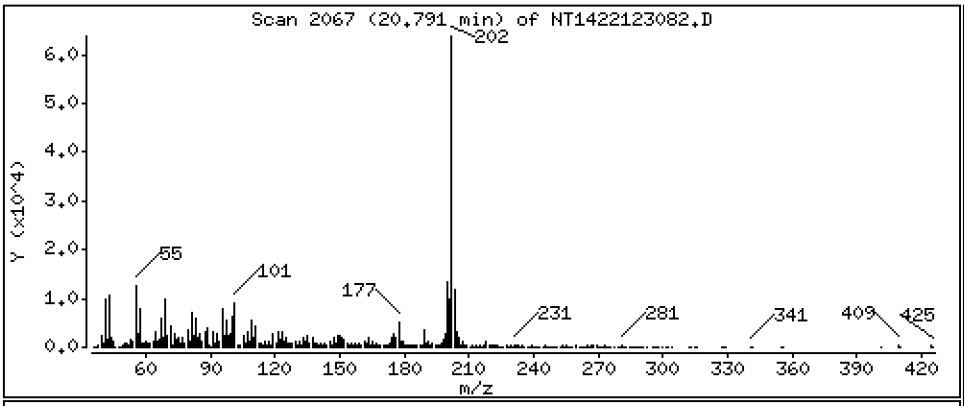
Operator: VTS

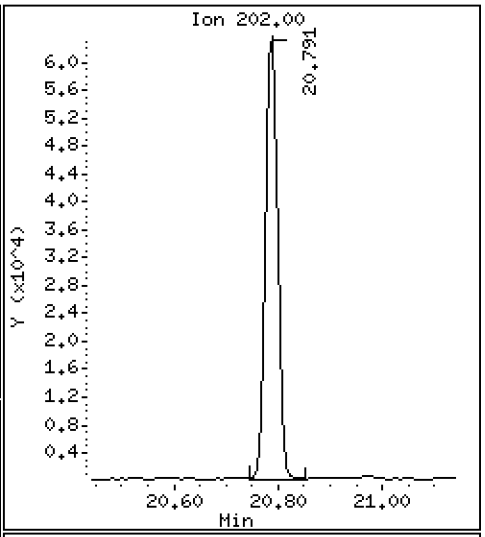
Column phase: ZB-5msi

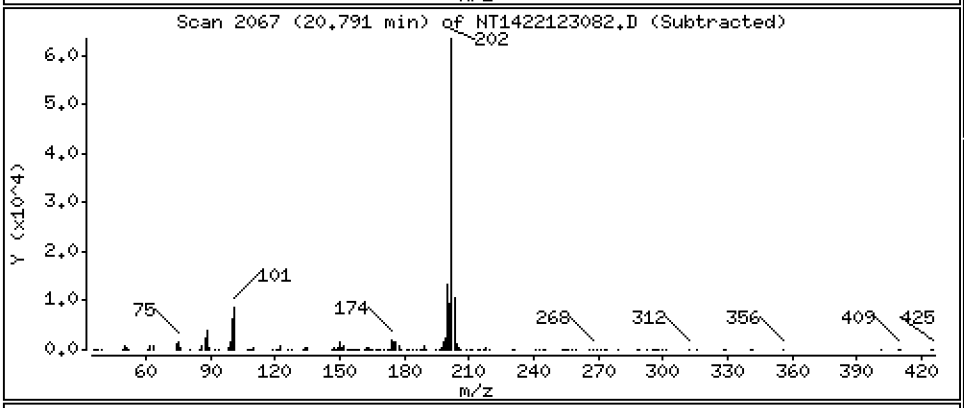
Column diameter: 0.25

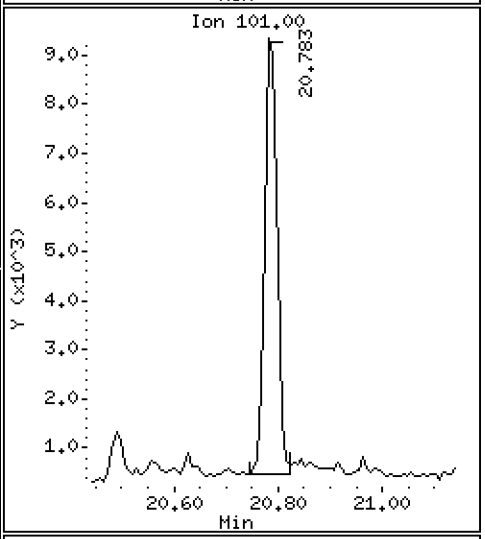
64 Fluoranthene

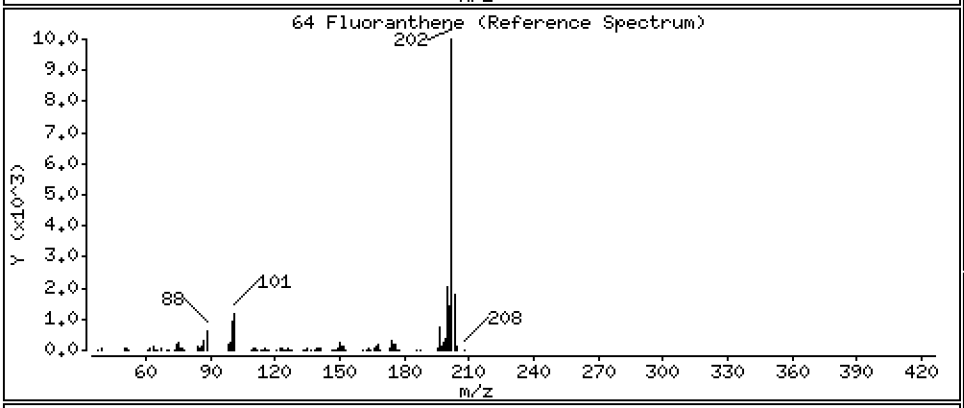
Concentration: 1.497 ug/mL

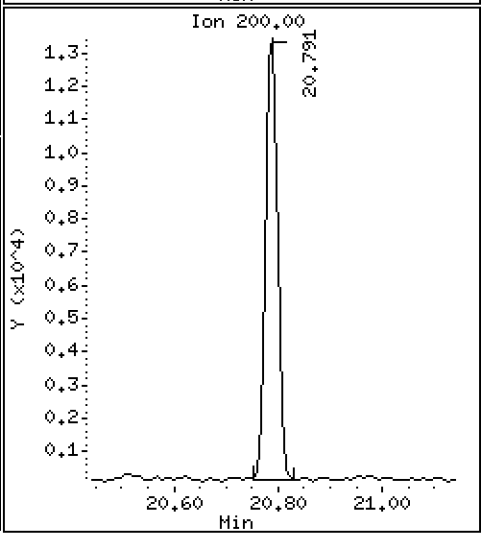


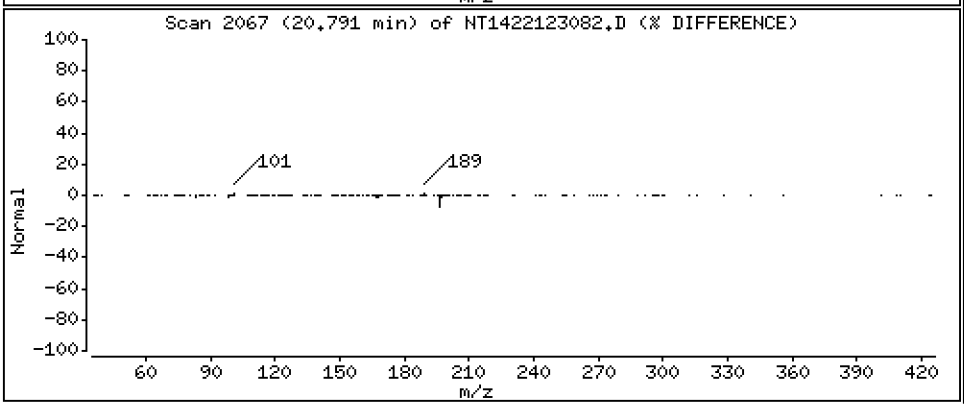












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Date : 01-JAN-2023 09:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-12

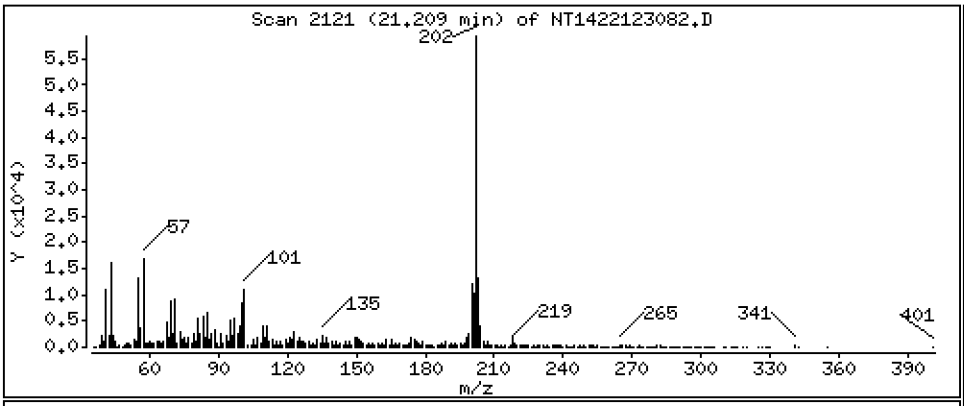
Operator: VTS

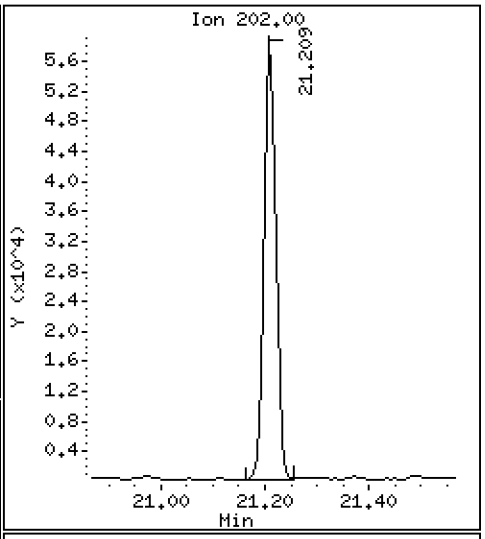
Column phase: ZB-5msi

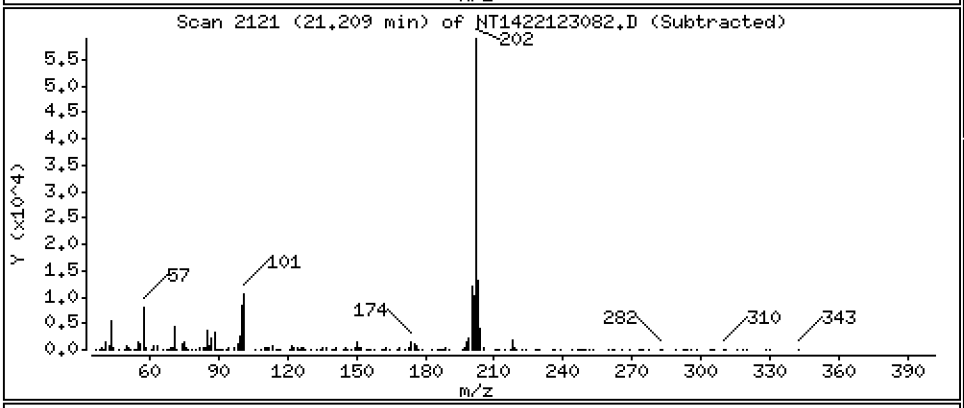
Column diameter: 0.25

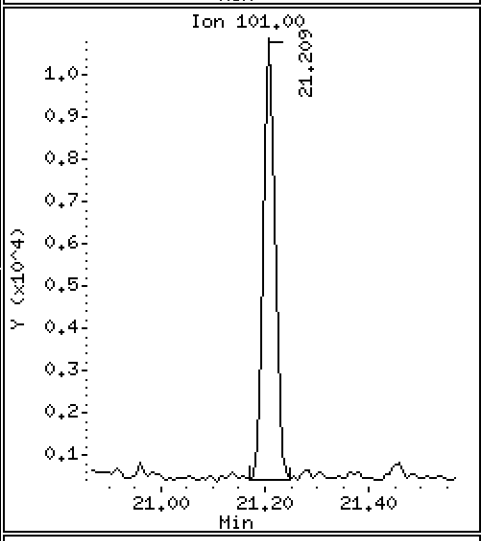
65 Pyrene

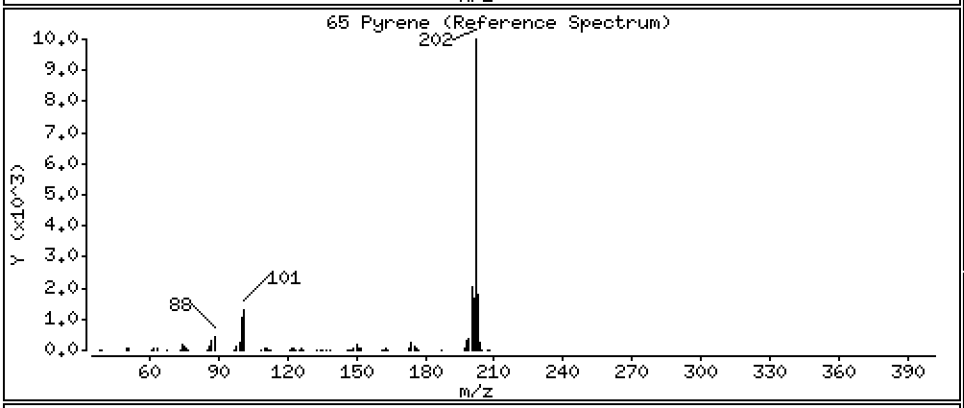
Concentration: 1.285 ug/mL

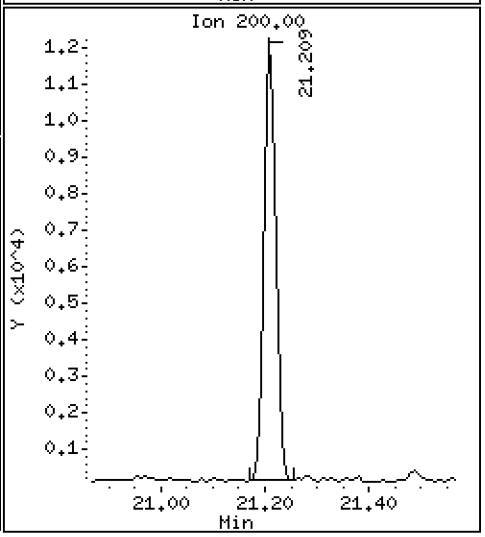


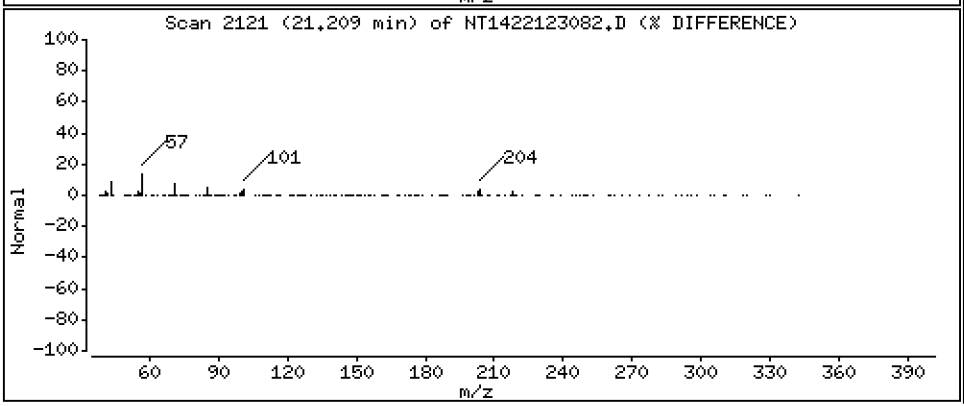












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Date : 01-JAN-2023 09:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-12

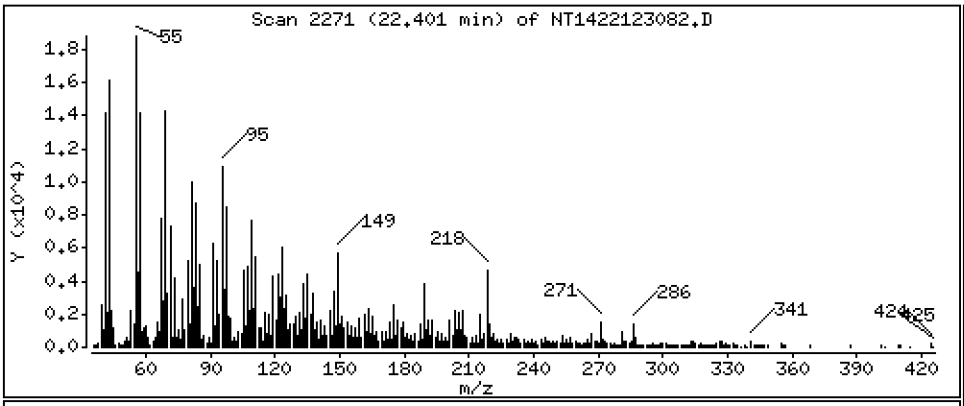
Operator: VTS

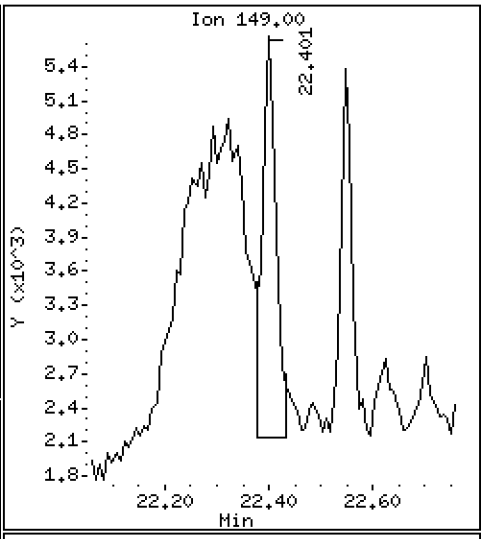
Column phase: ZB-5msi

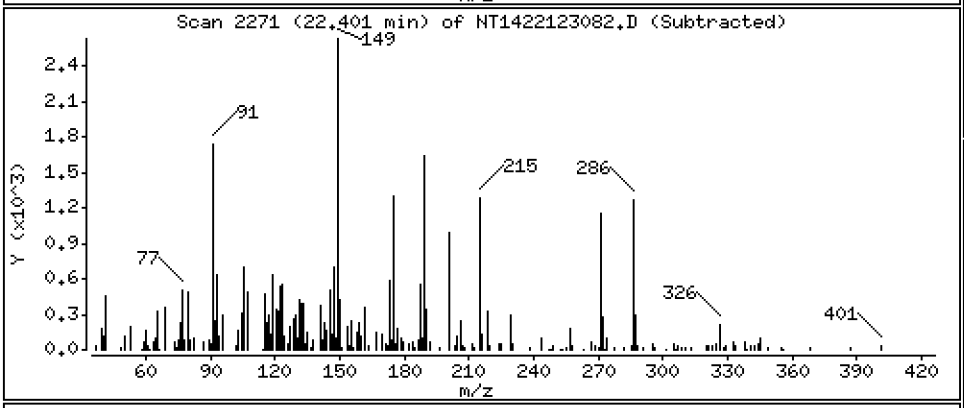
Column diameter: 0.25

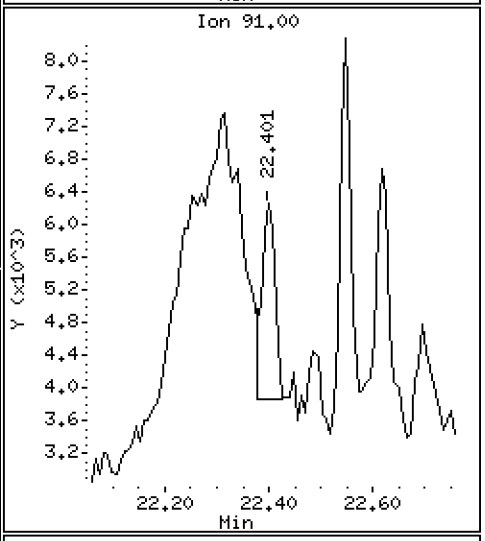
67 Butylbenzylphthalate

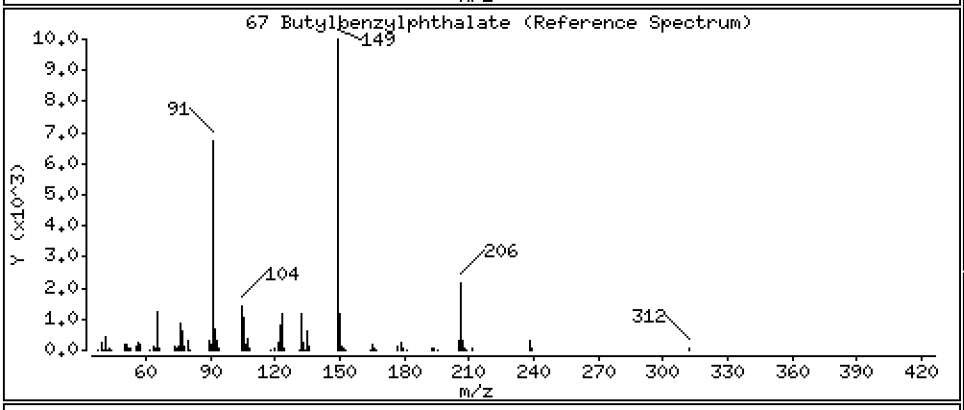
Concentration: 0.2547 ug/mL

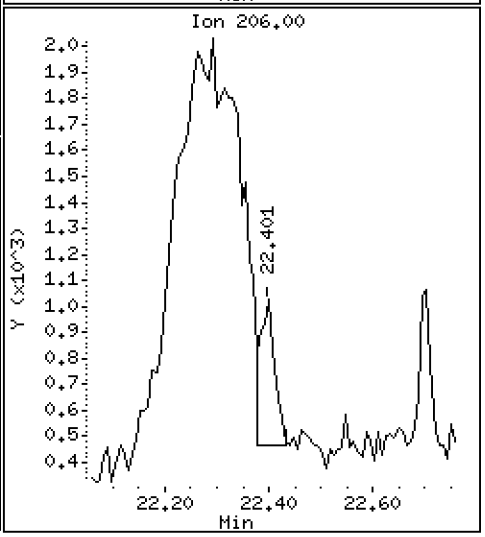


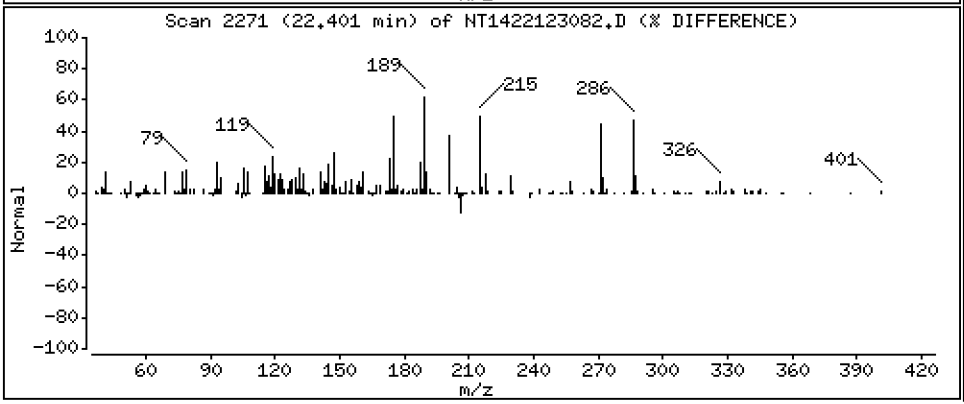












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Date : 01-JAN-2023 09:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-12

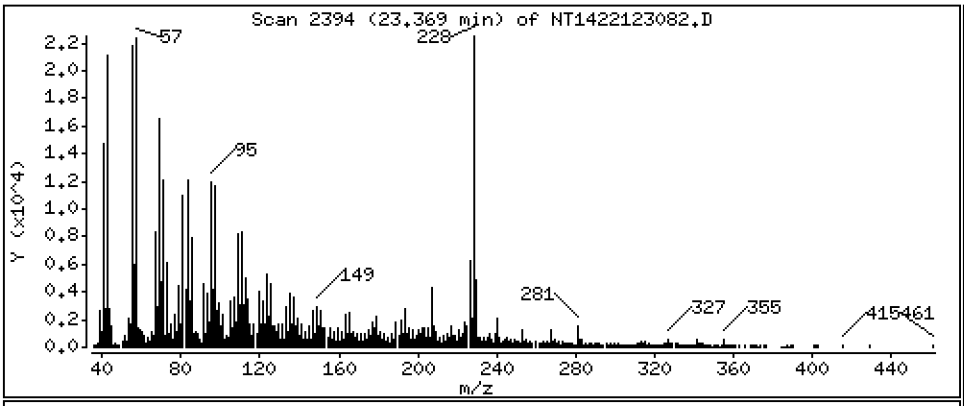
Operator: VTS

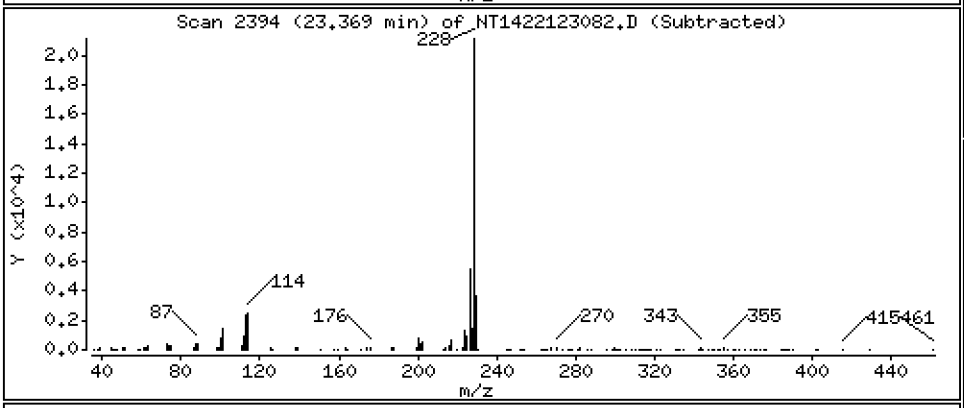
Column phase: ZB-5msi

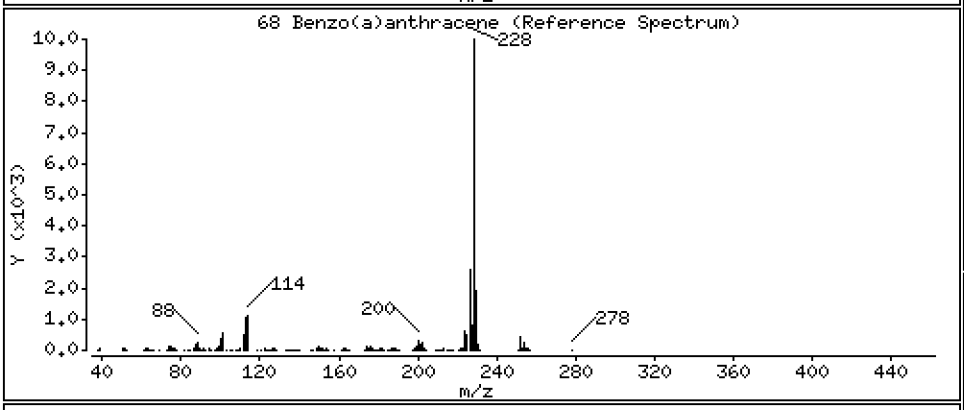
Column diameter: 0.25

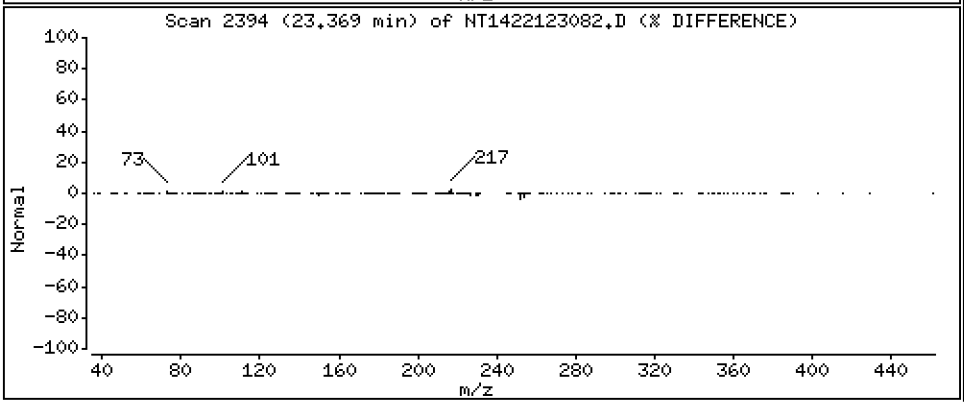
68 Benzo(a)anthracene

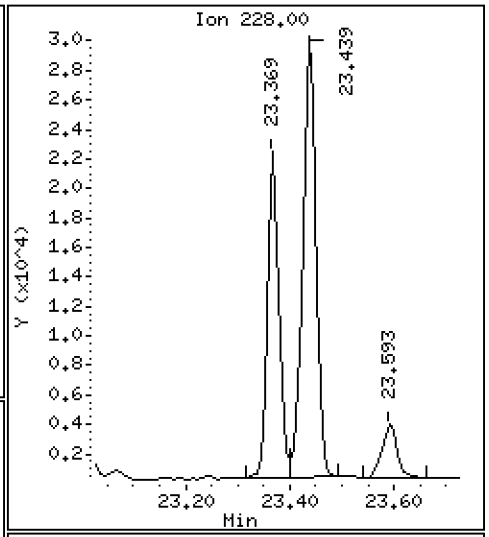
Concentration: 0.5331 ug/mL

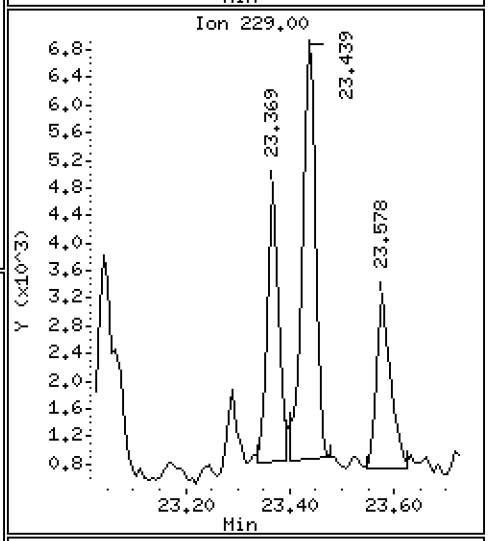


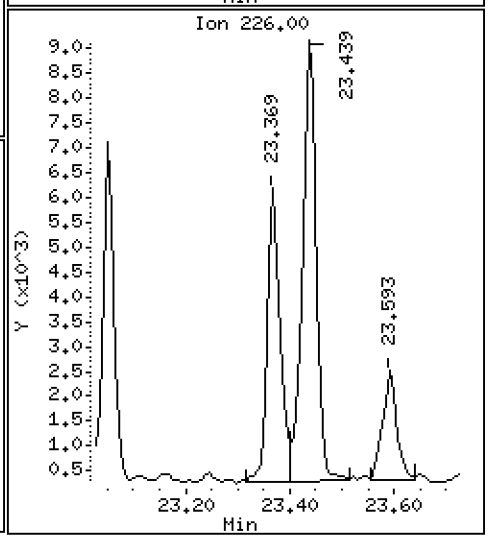












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Date : 01-JAN-2023 09:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-12

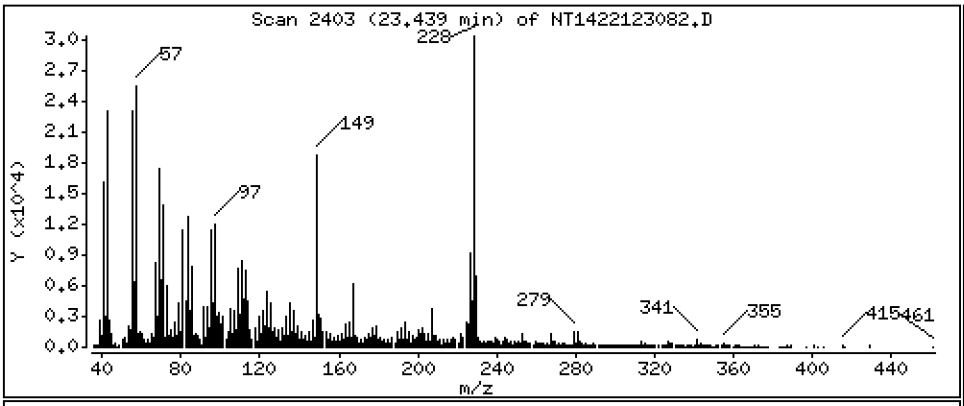
Operator: VTS

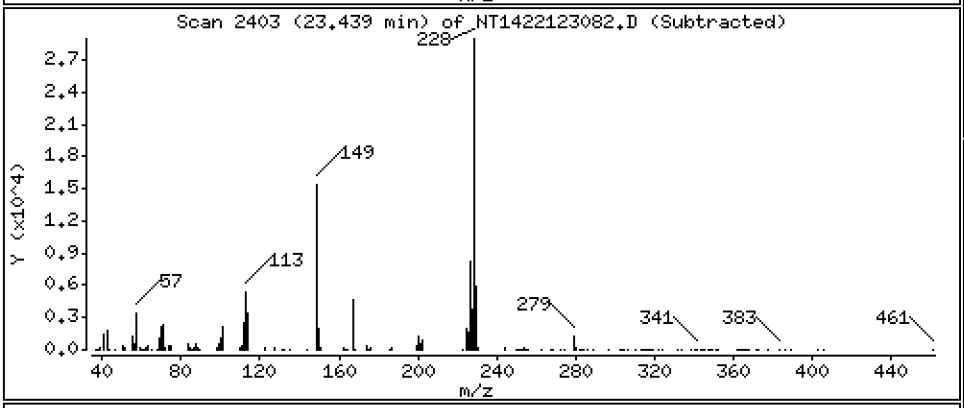
Column phase: ZB-5msi

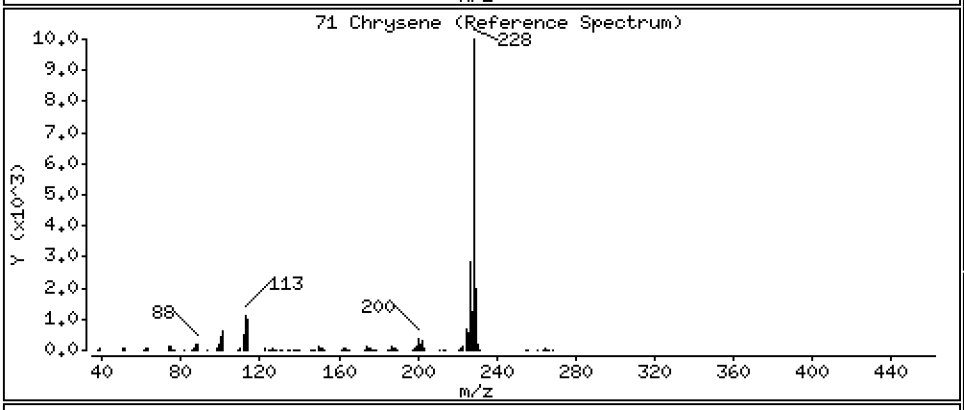
Column diameter: 0.25

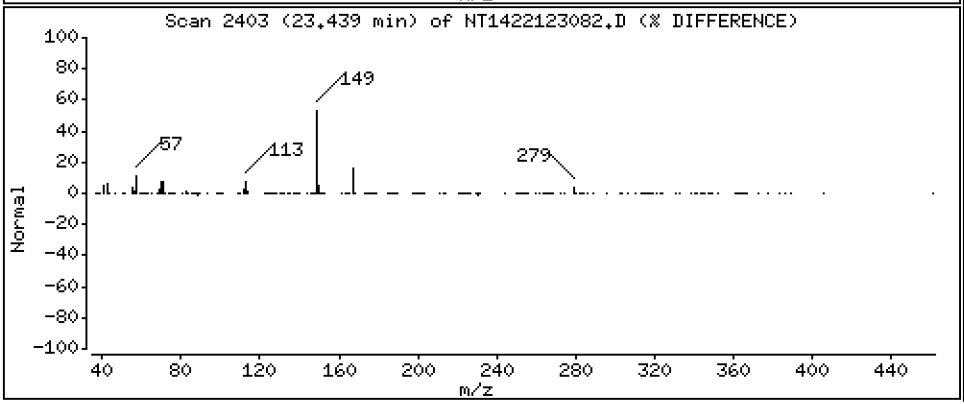
71 Chrysene

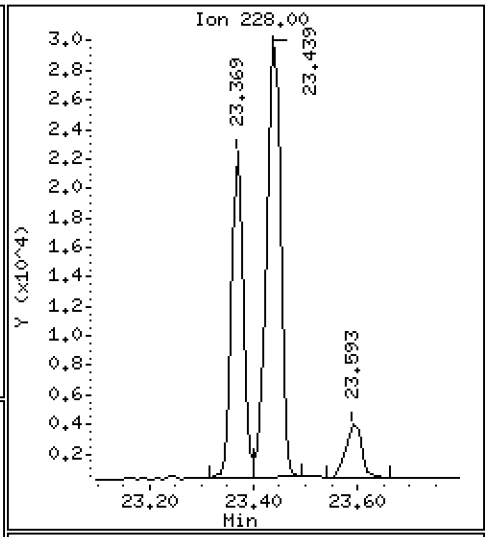
Concentration: 0.9109 ug/mL

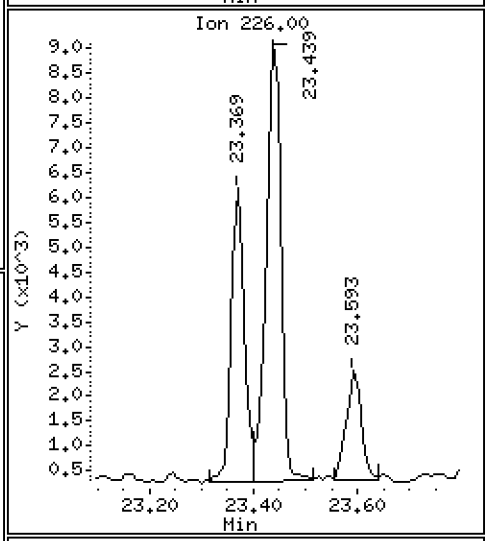


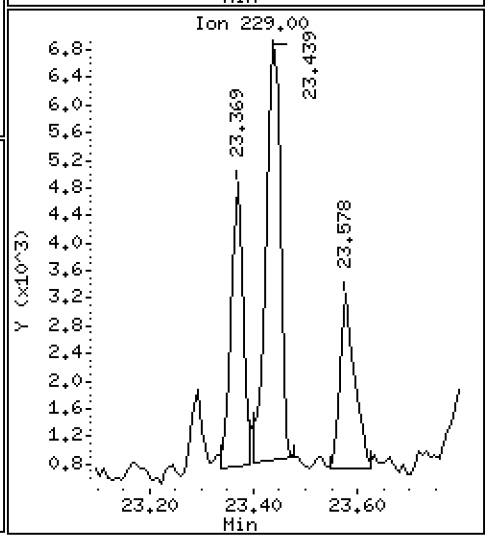












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123082.D

Date : 01-JAN-2023 09:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-12

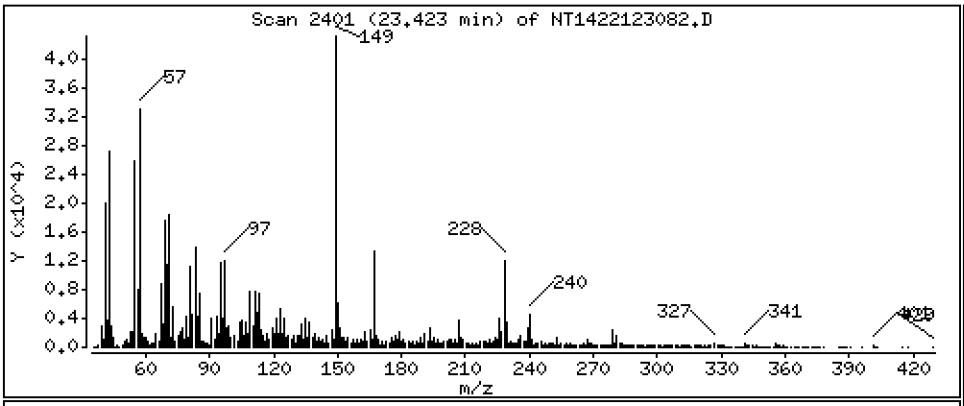
Operator: VTS

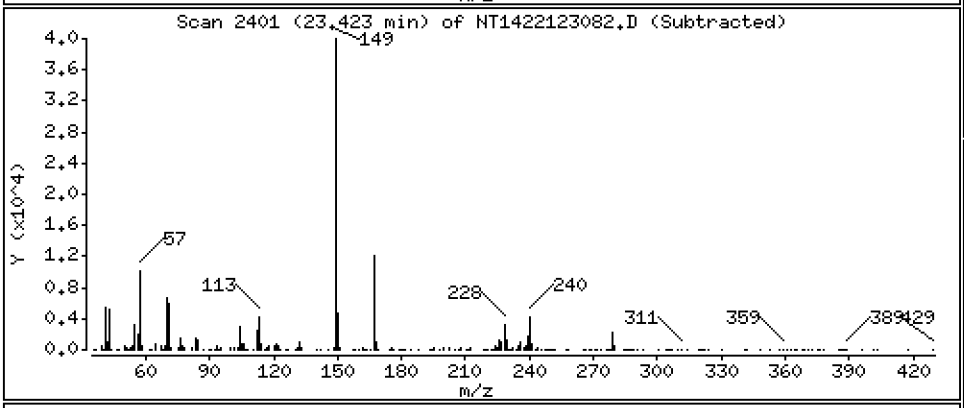
Column phase: ZB-5msi

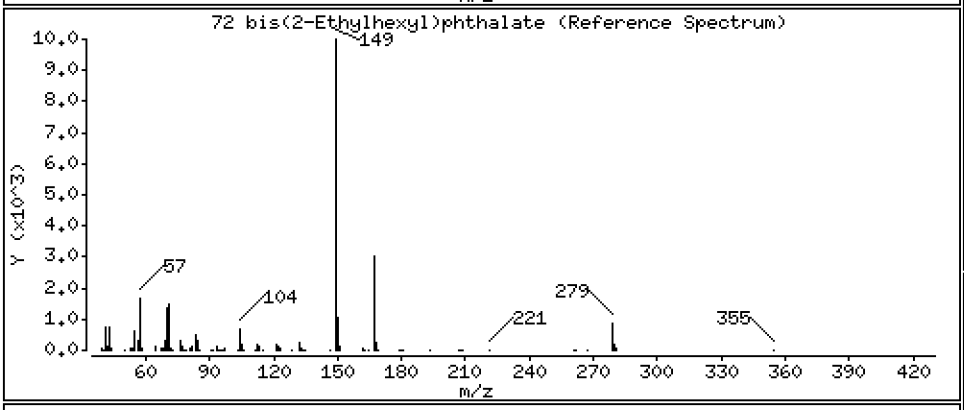
Column diameter: 0.25

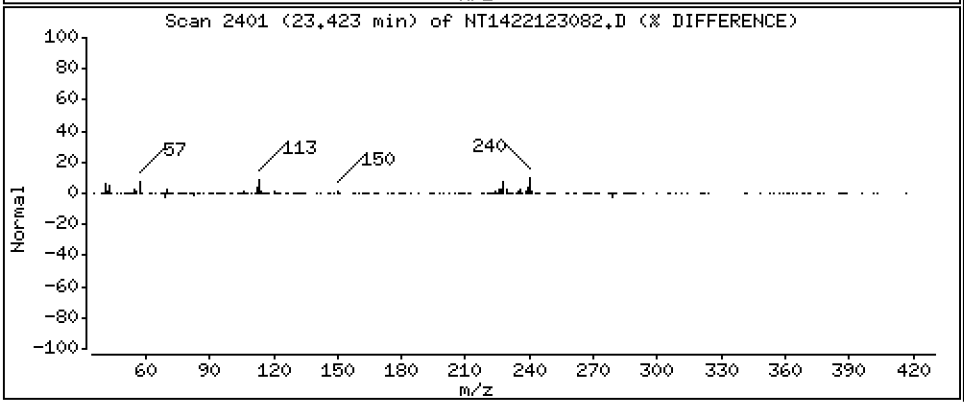
72 bis(2-Ethylhexyl)phthalate

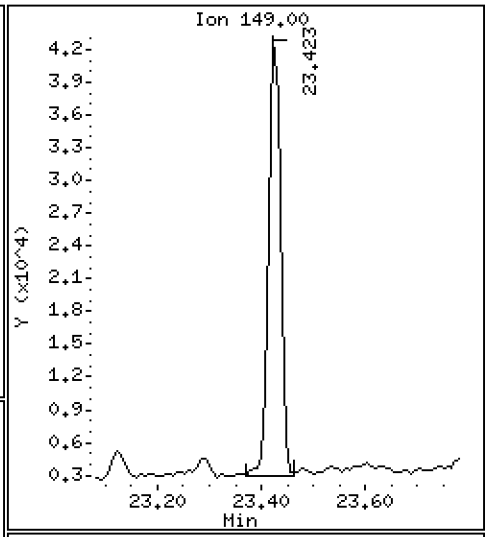
Concentration: 1.456 ug/mL

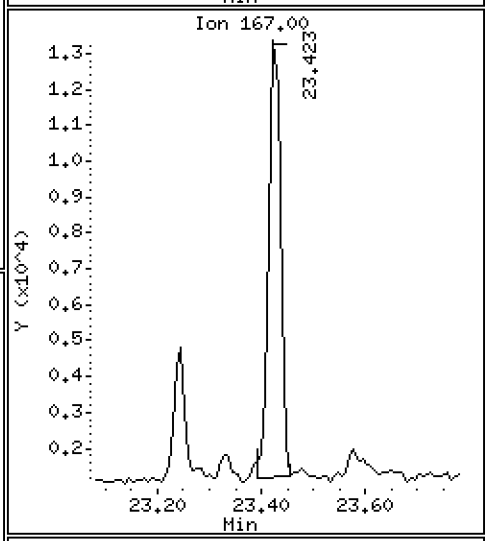


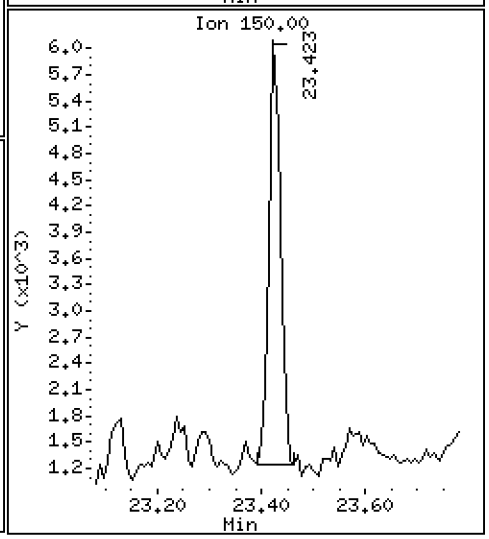












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Date : 01-JAN-2023 09:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-12

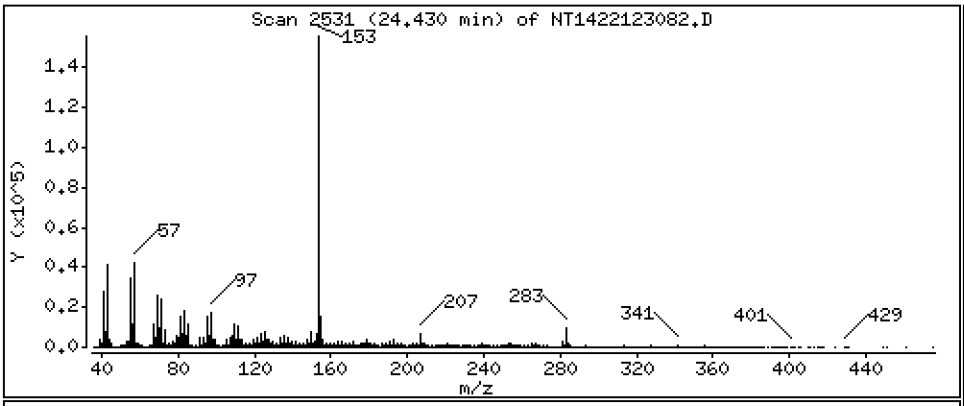
Operator: VTS

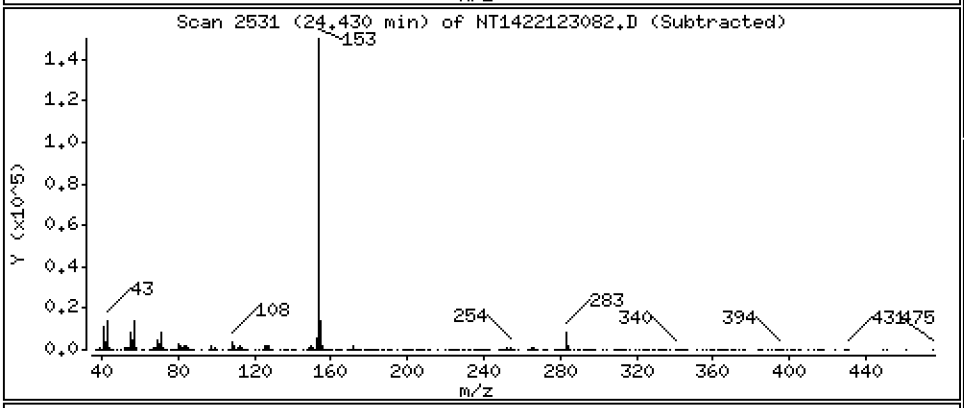
Column phase: ZB-5msi

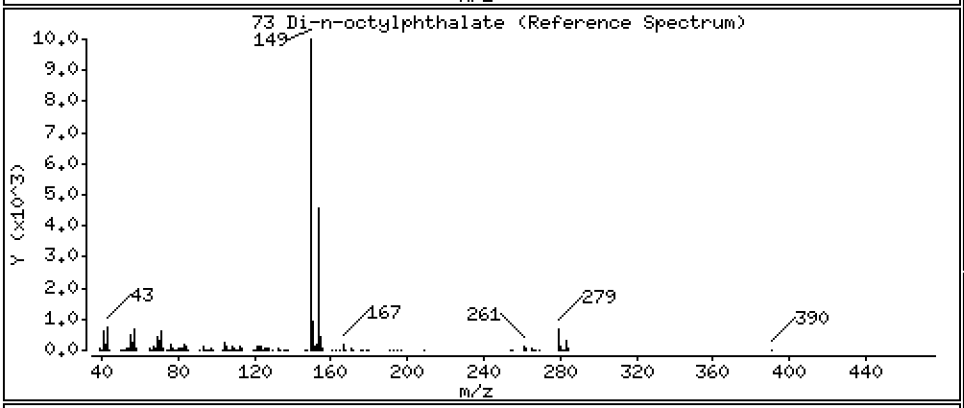
Column diameter: 0.25

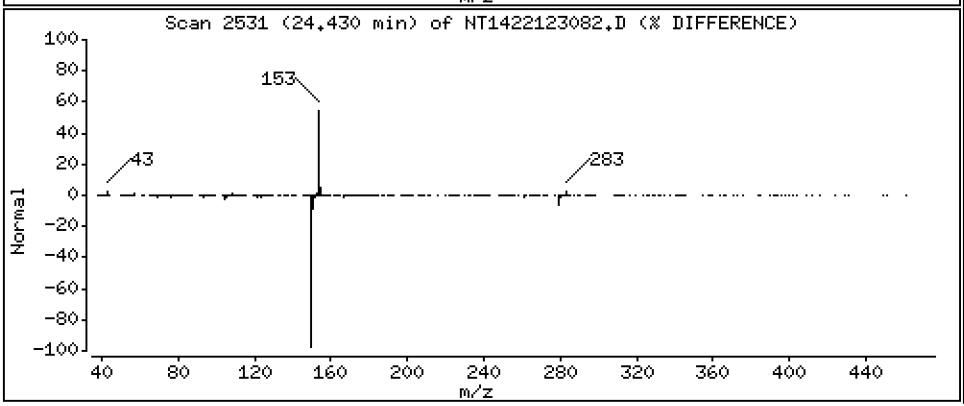
73 Di-n-octylphthalate

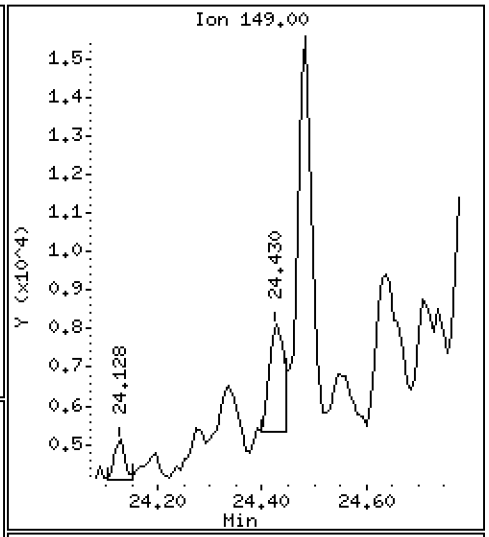
Concentration: 0.05867 ug/mL

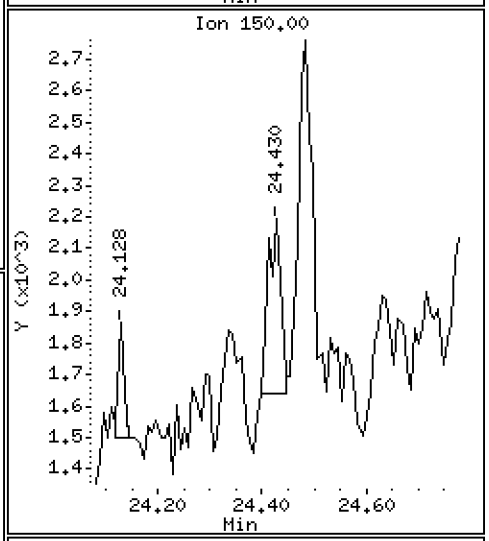


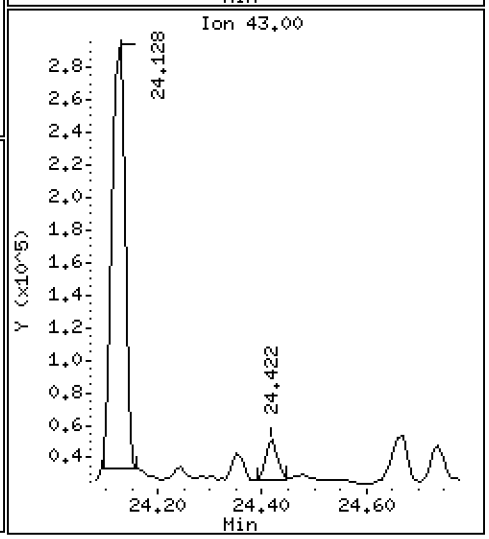












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Date : 01-JAN-2023 09:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-12

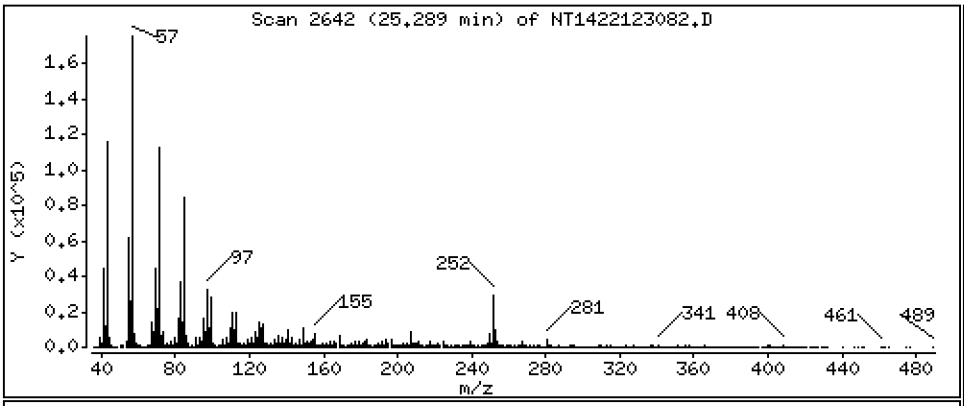
Operator: VTS

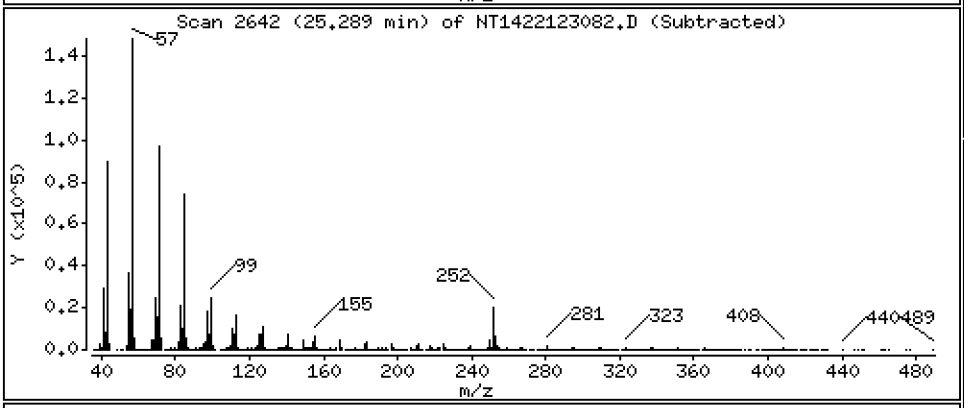
Column phase: ZB-5msi

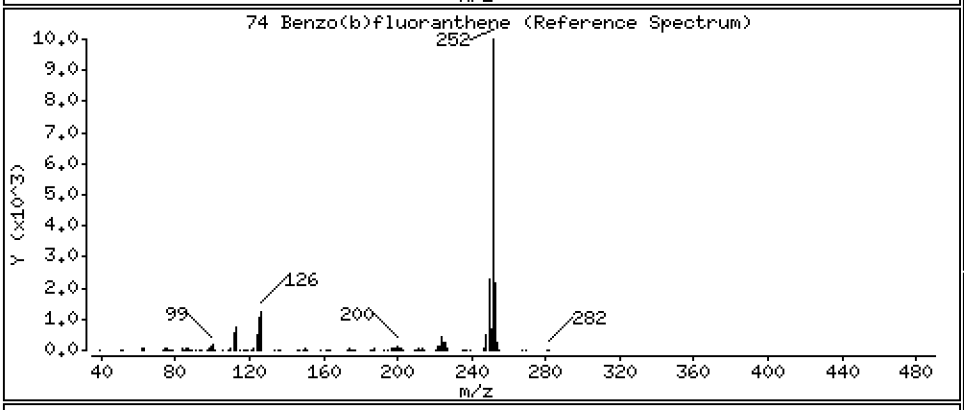
Column diameter: 0.25

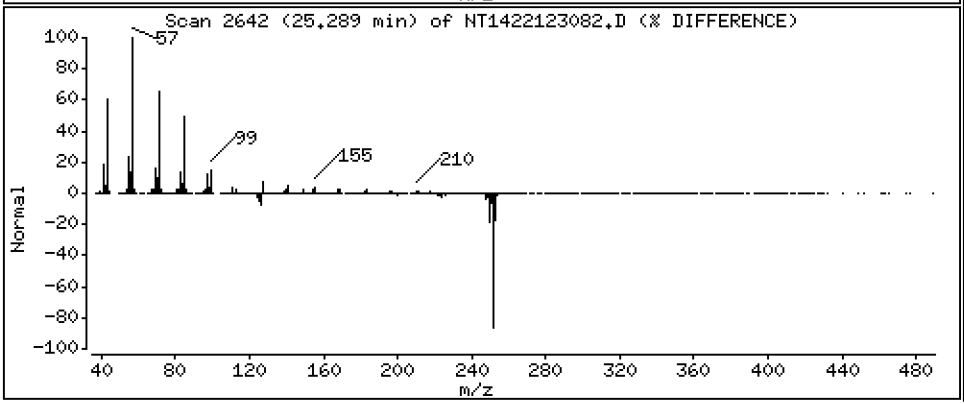
74 Benzo(b)fluoranthene

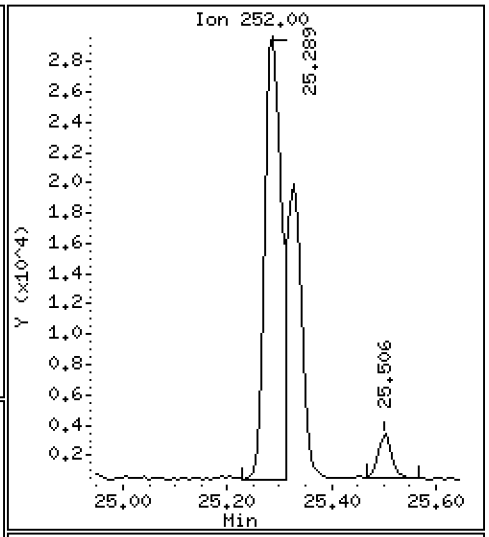
Concentration: 1.094 ug/mL

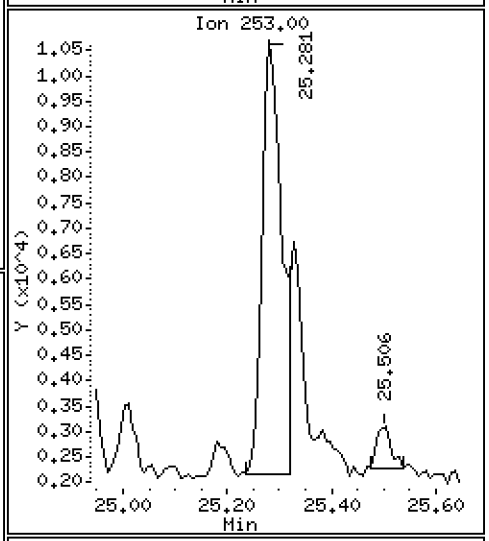


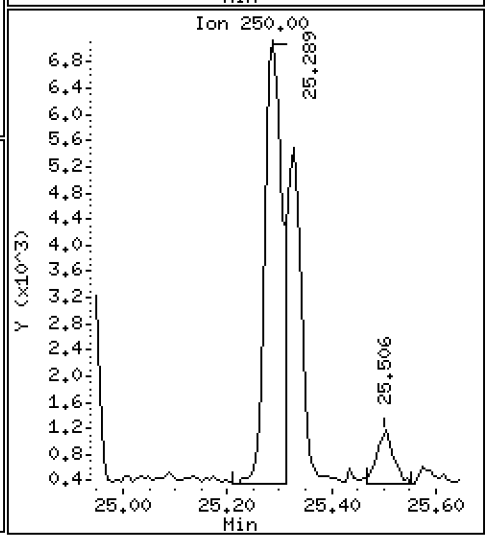












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Date : 01-JAN-2023 09:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-12

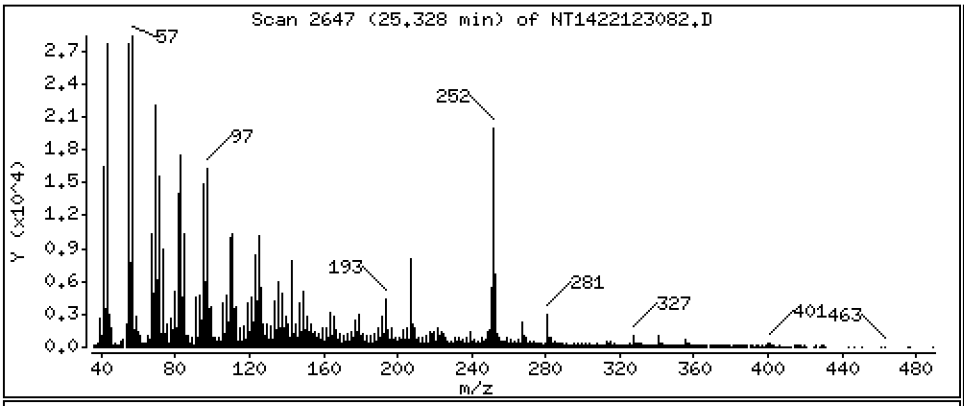
Operator: VTS

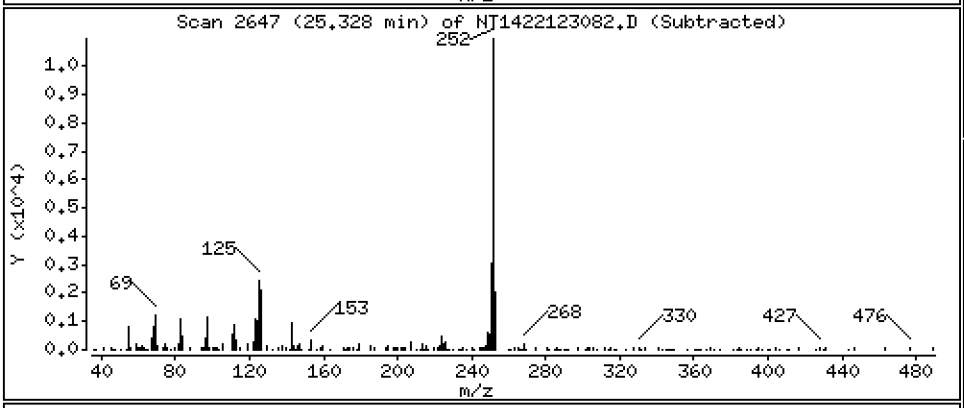
Column phase: ZB-5msi

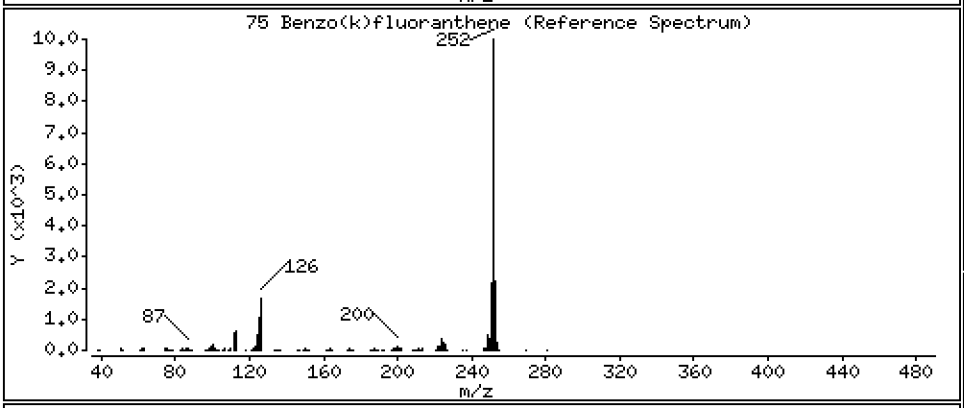
Column diameter: 0.25

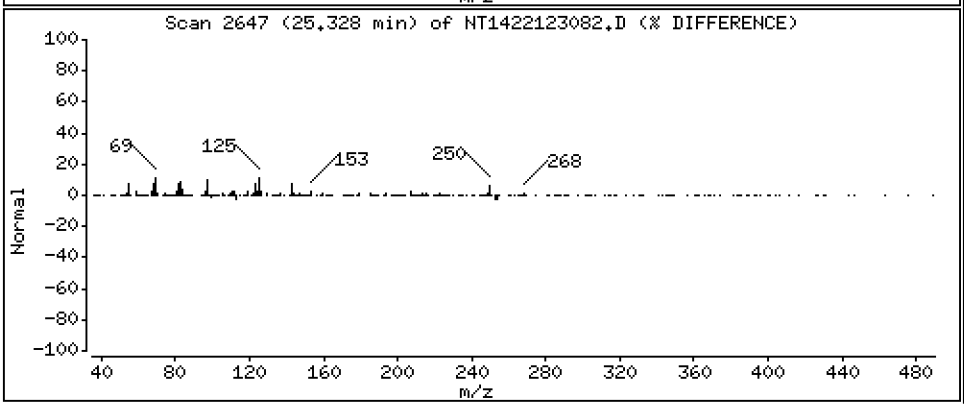
75 Benzo(k)fluoranthene

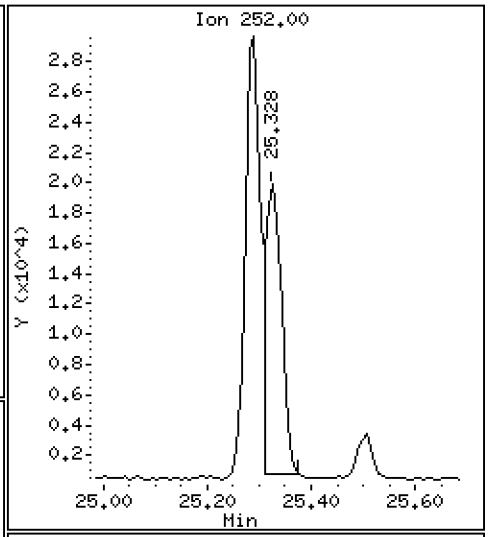
Concentration: 0.6729 ug/mL

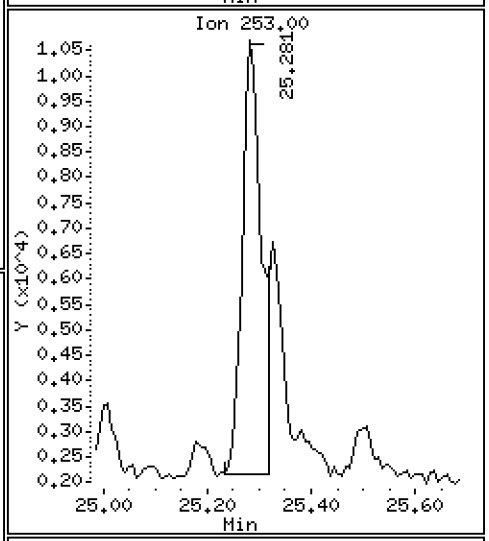


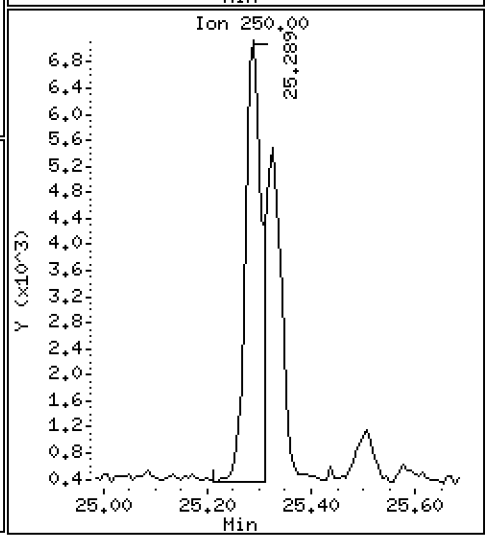












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Date : 01-JAN-2023 09:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-12

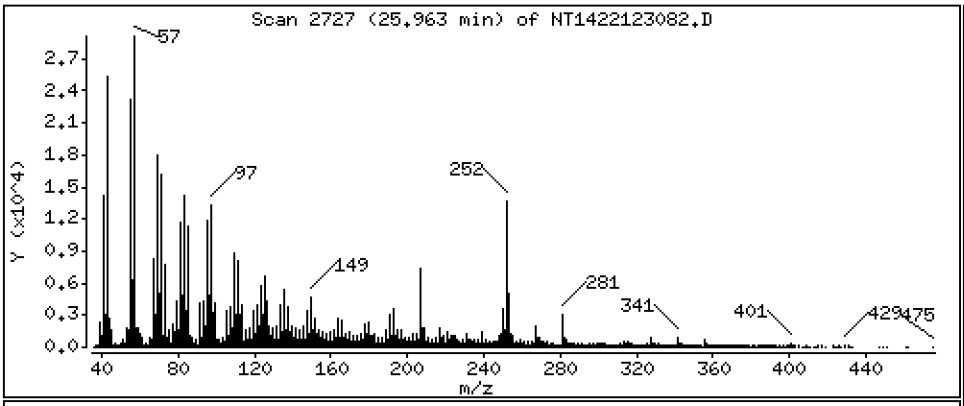
Operator: VTS

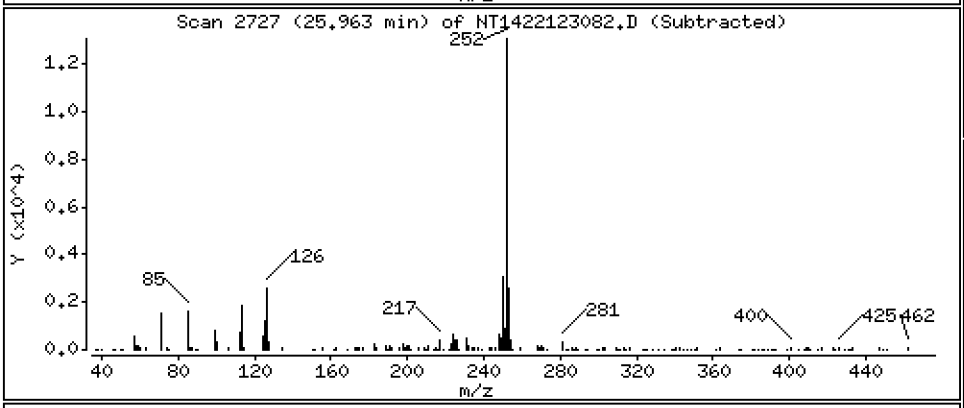
Column phase: ZB-5msi

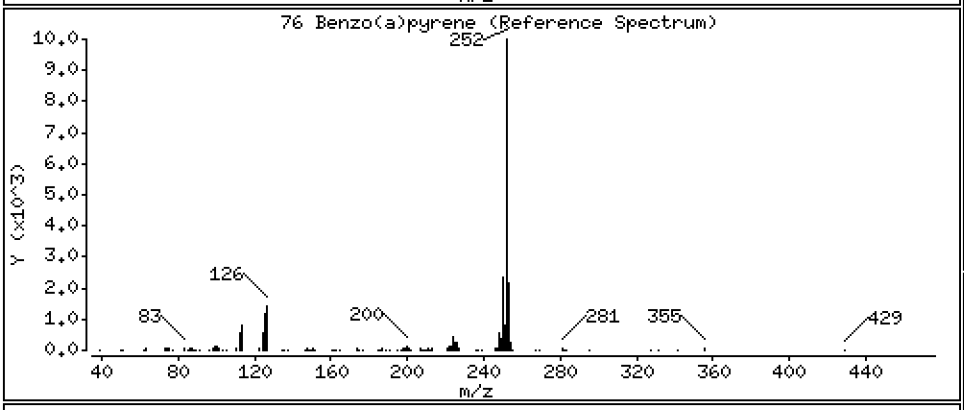
Column diameter: 0.25

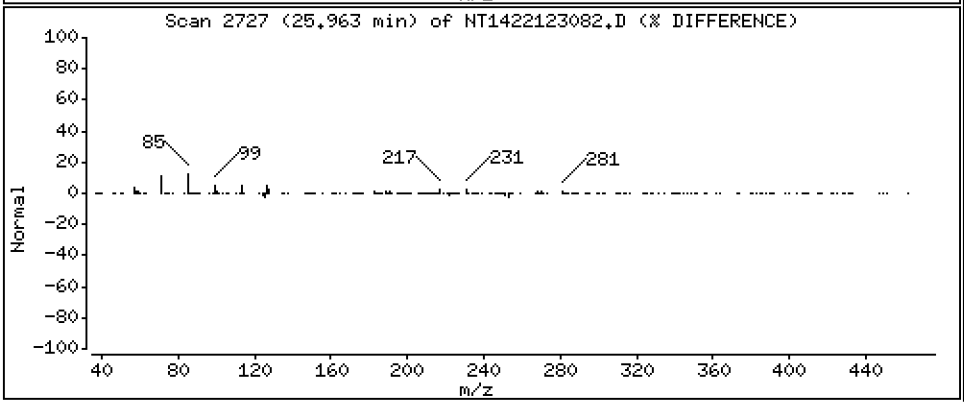
76 Benzo(a)pyrene

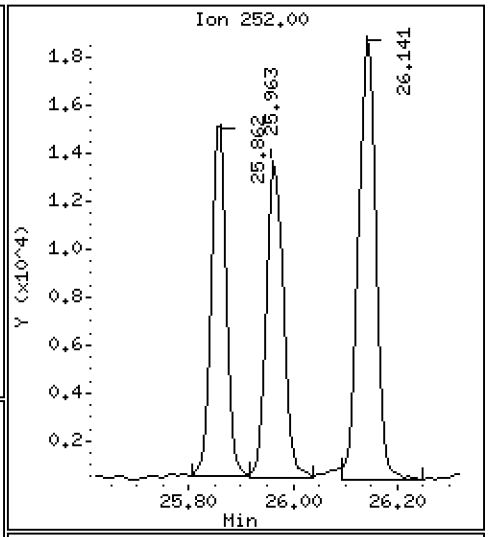
Concentration: 0.5929 ug/mL

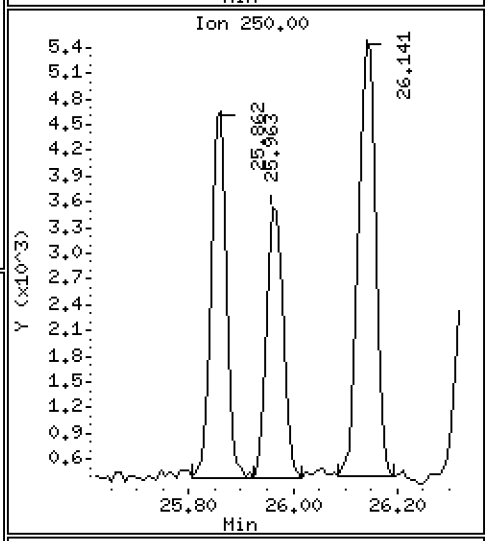


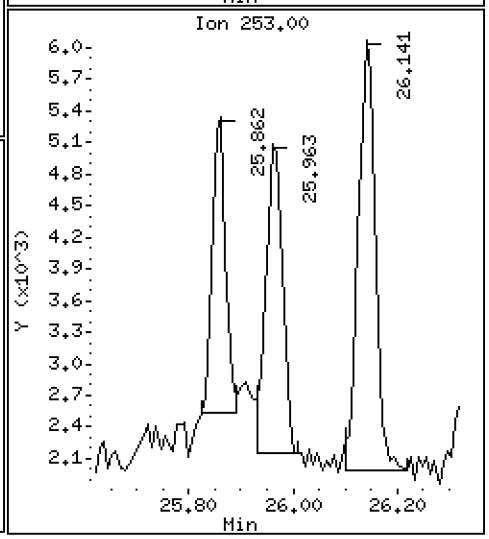












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Date : 01-JAN-2023 09:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-12

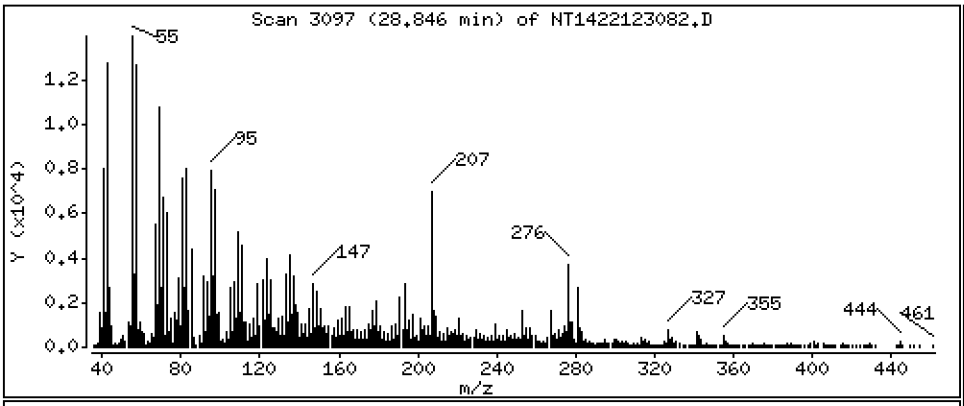
Operator: VTS

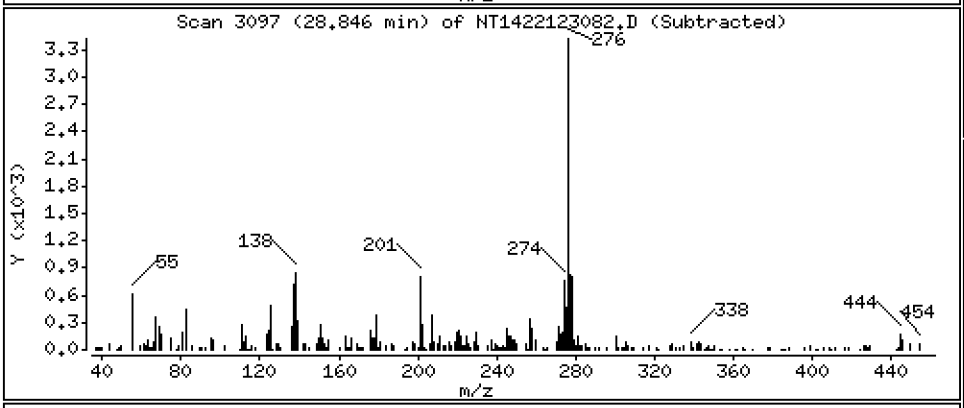
Column phase: ZB-5msi

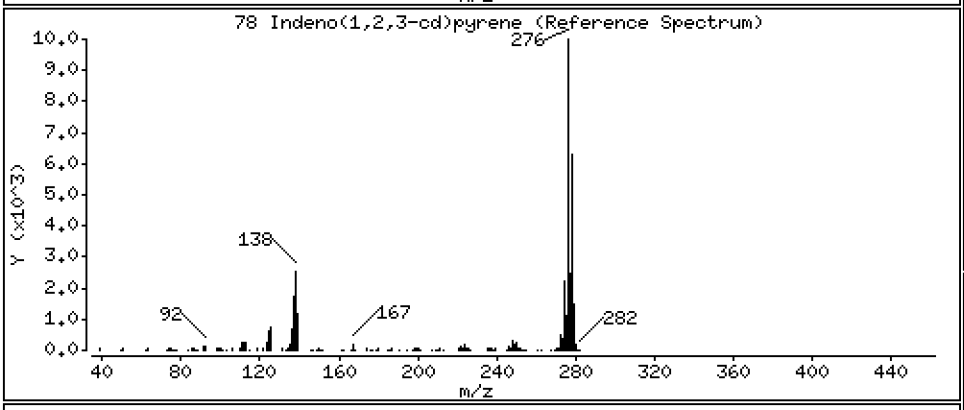
Column diameter: 0.25

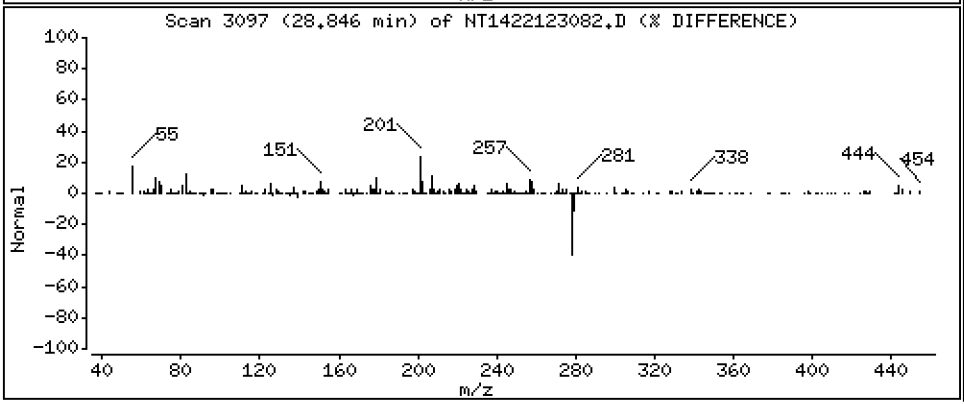
78 Indeno(1,2,3-cd)pyrene

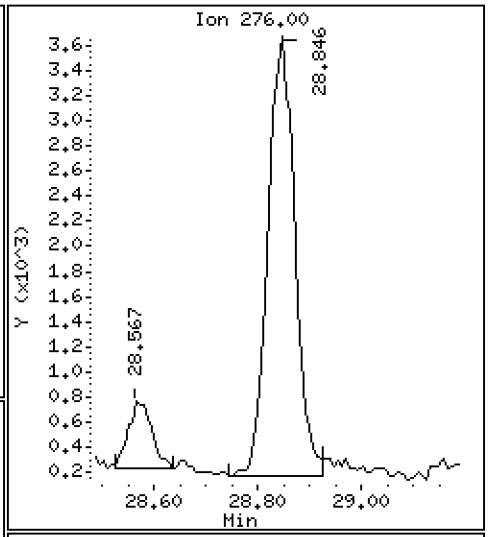
Concentration: 0.2246 ug/mL

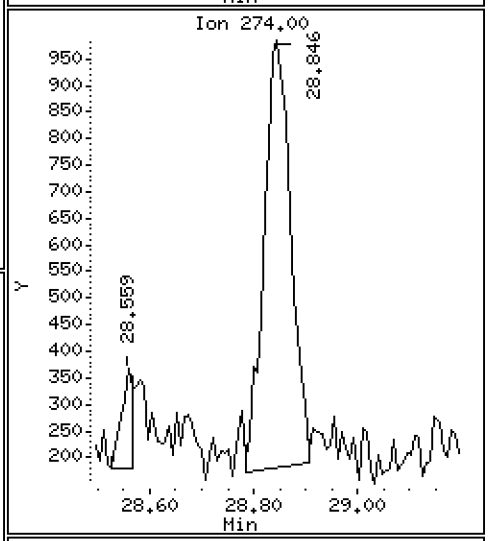


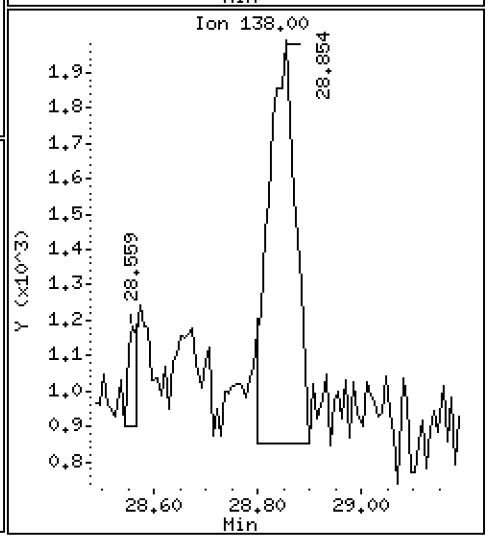












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Date : 01-JAN-2023 09:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-12

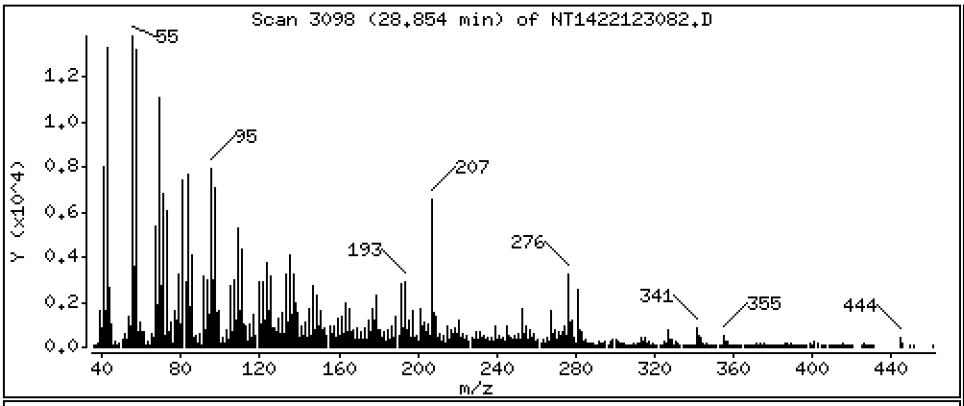
Operator: VTS

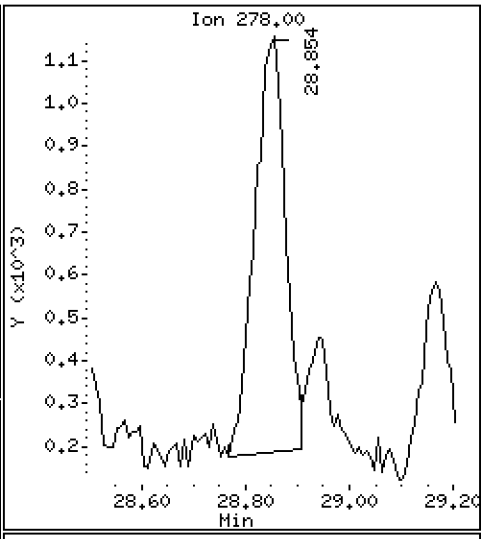
Column phase: ZB-5msi

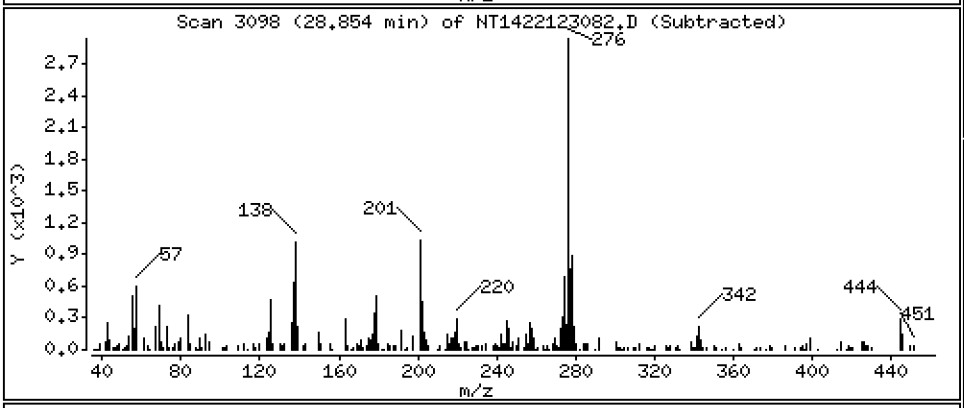
Column diameter: 0.25

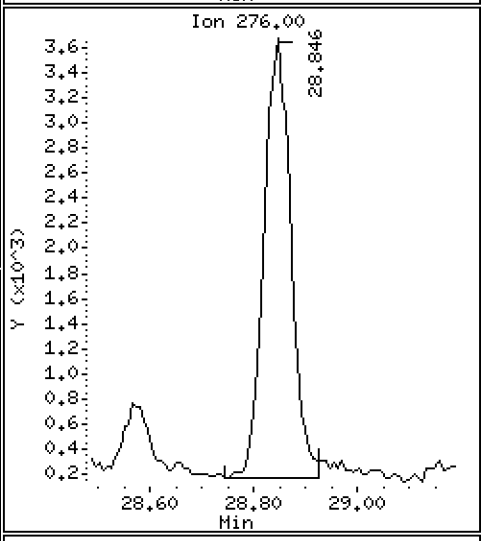
79 Dibenzo(a,h)anthracene

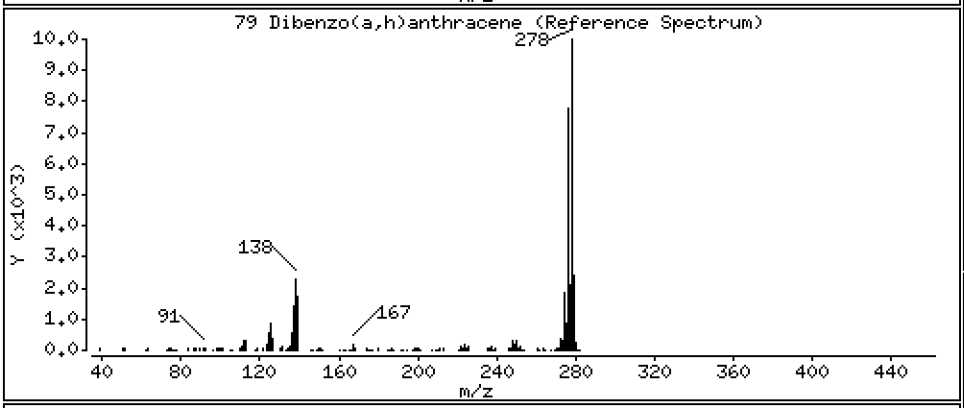
Concentration: 0.08336 ug/mL

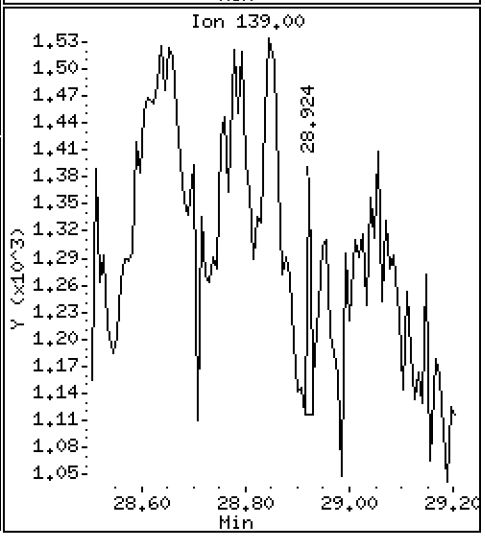


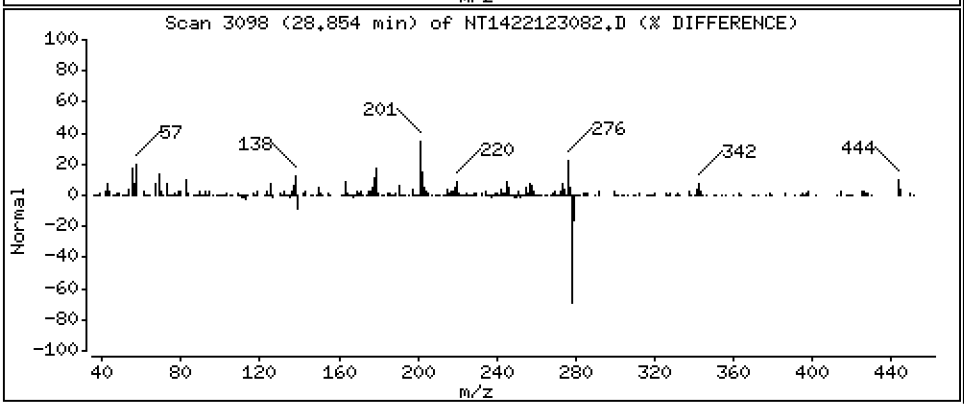












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Date : 01-JAN-2023 09:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-12

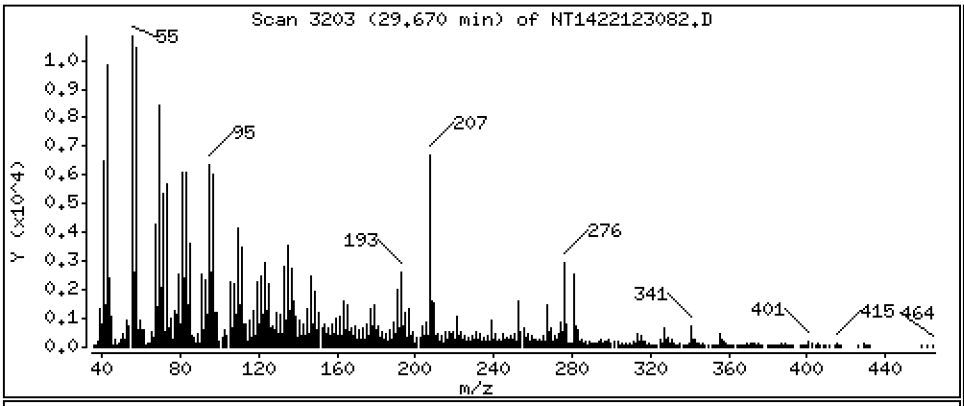
Operator: VTS

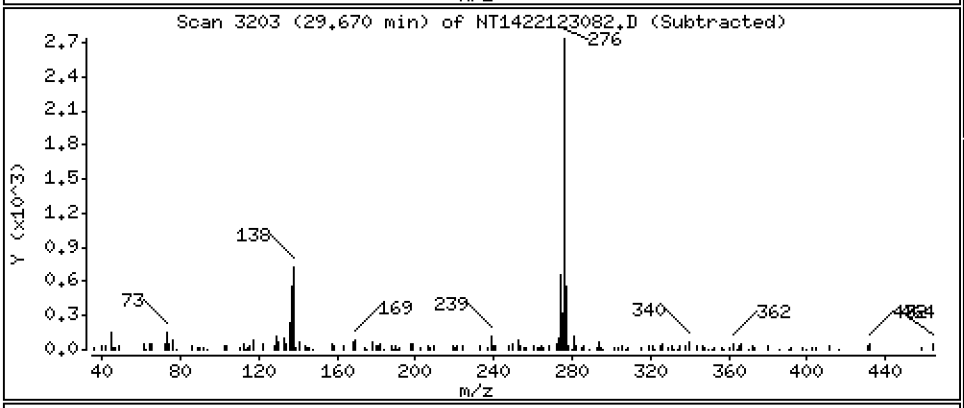
Column phase: ZB-5msi

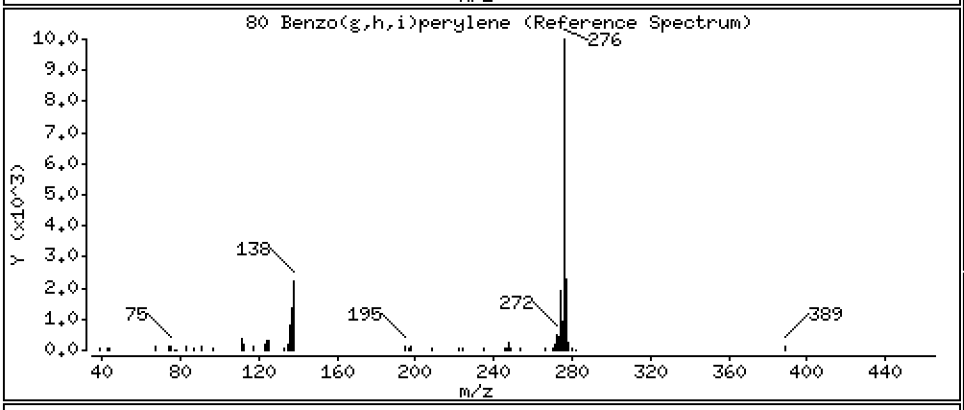
Column diameter: 0.25

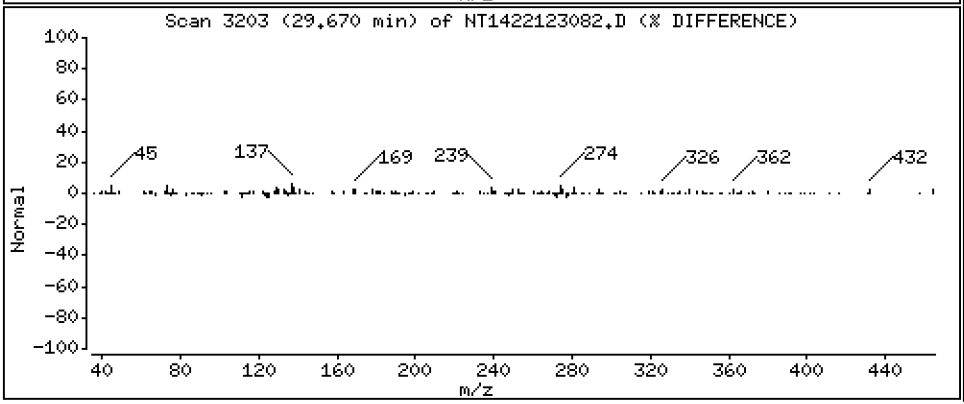
80 Benzo(g,h,i)perylene

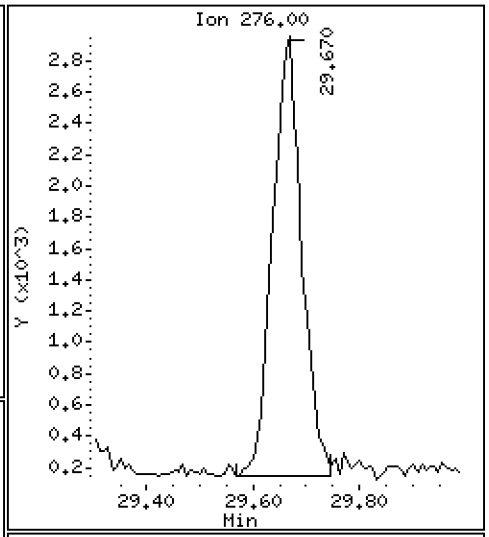
Concentration: 0.2295 ug/mL

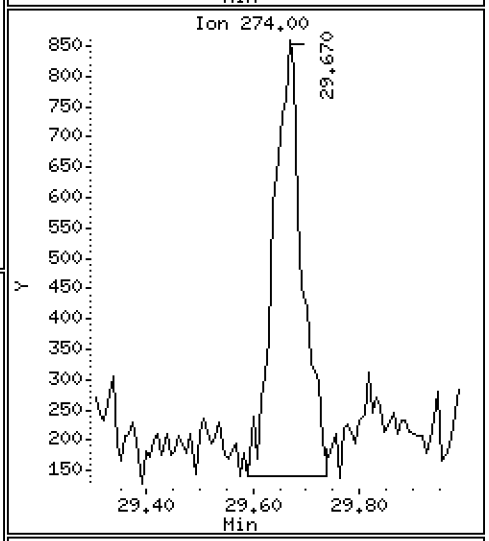


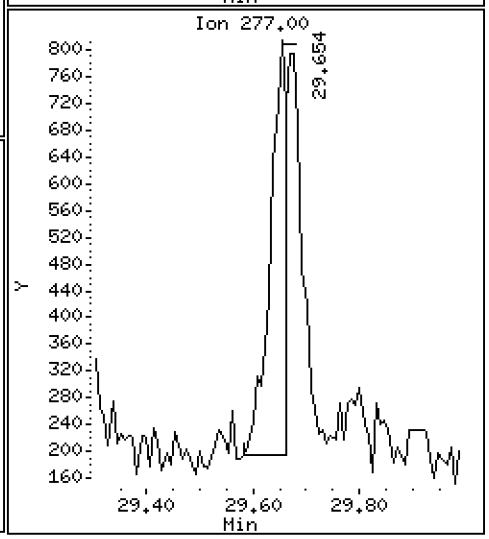












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Date : 01-JAN-2023 09:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-12

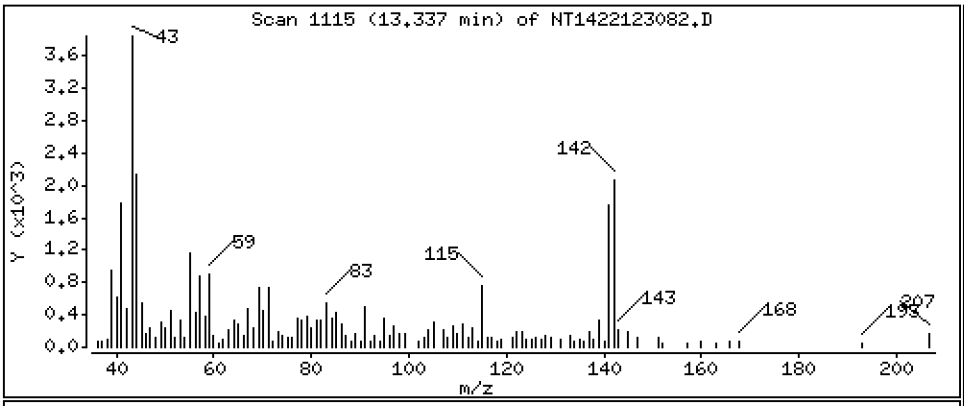
Operator: VTS

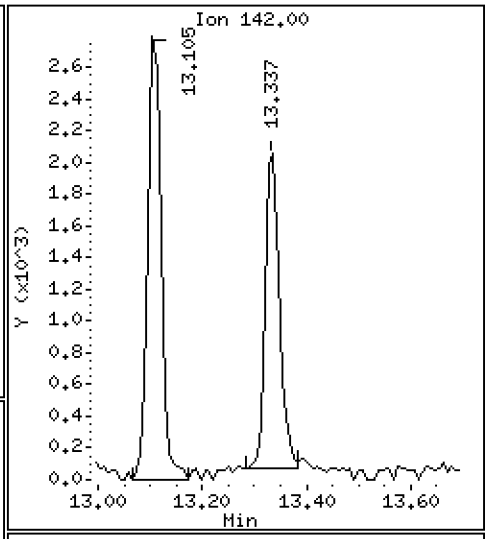
Column phase: ZB-5msi

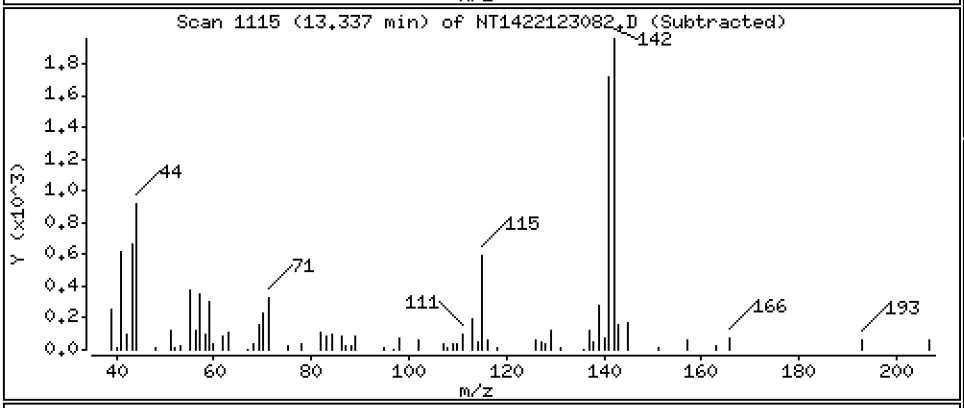
Column diameter: 0.25

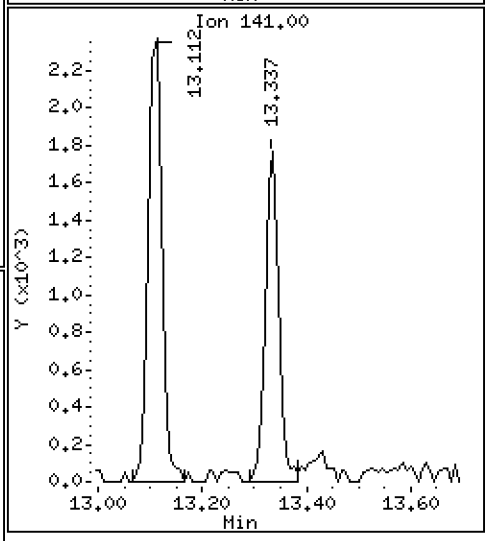
105 1-methylnaphthalene

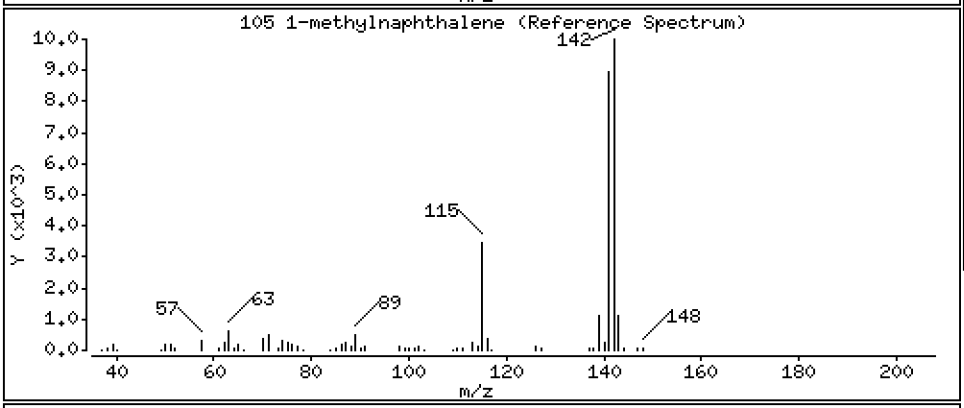
Concentration: 0.06678 ug/mL

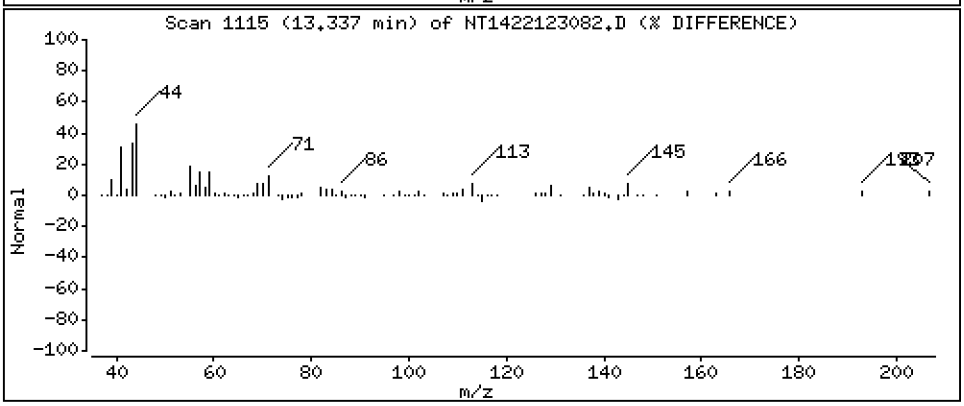












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123082.D

Date : 01-JAN-2023 09:05

Client ID:

Instrument: nt14.i

Sample Info: 22L0136-12

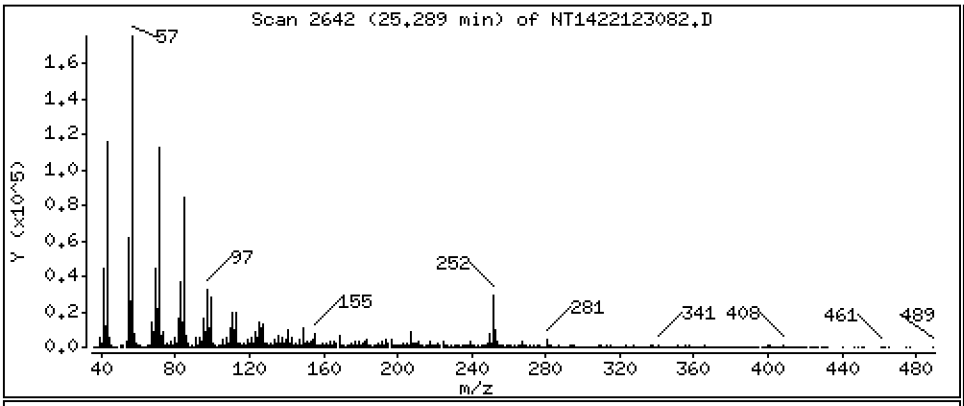
Operator: VTS

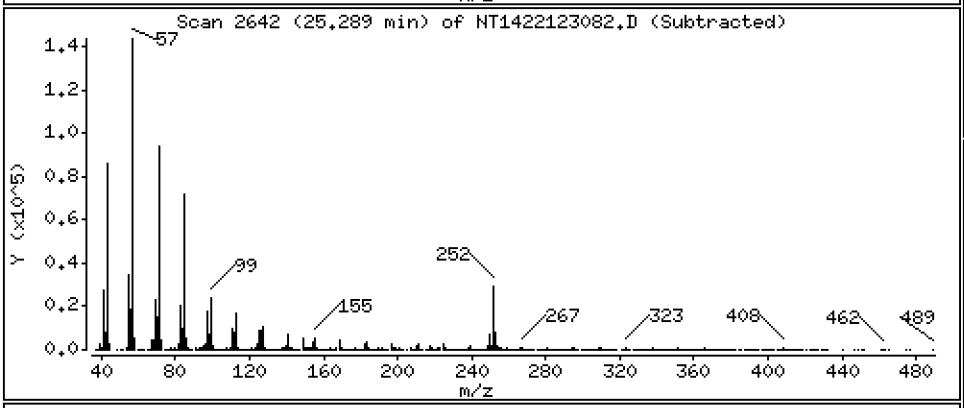
Column phase: ZB-5msi

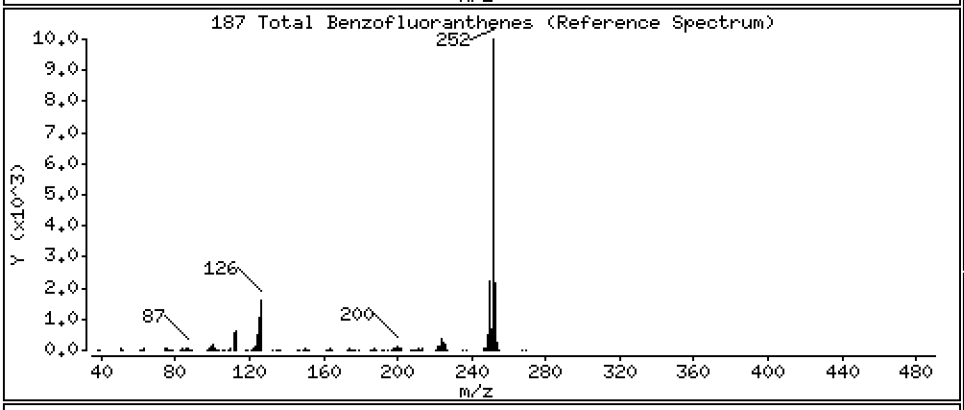
Column diameter: 0.25

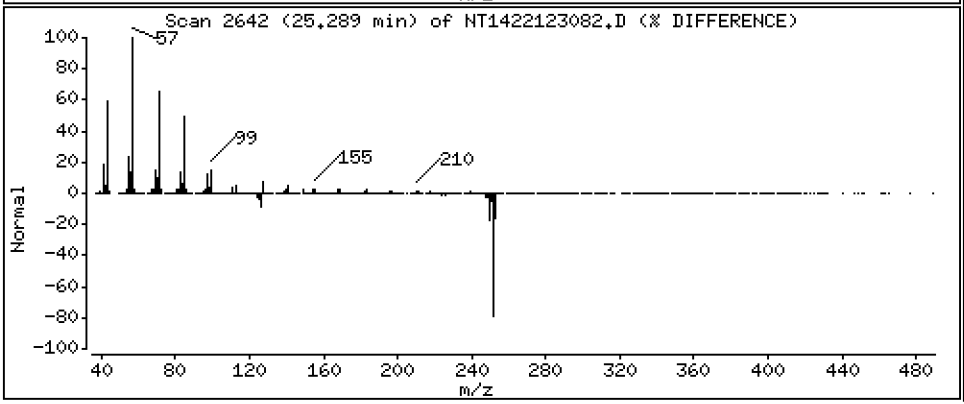
187 Total Benzofluoranthenes

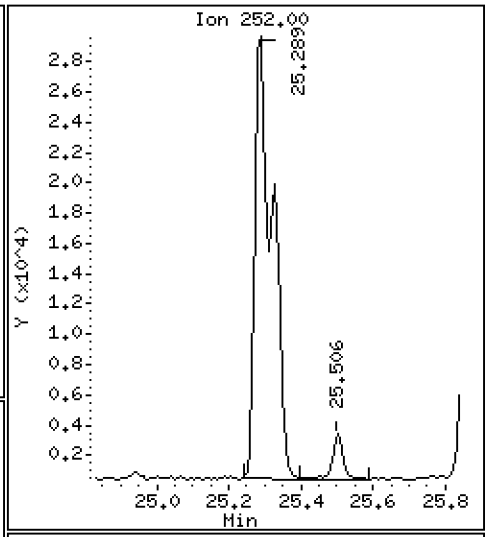
Concentration: 1.731 ug/mL

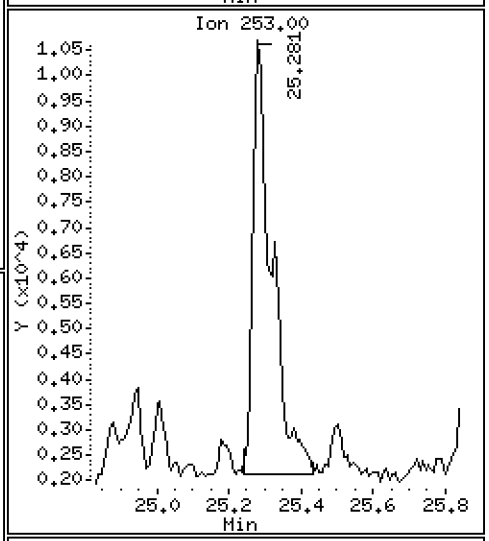


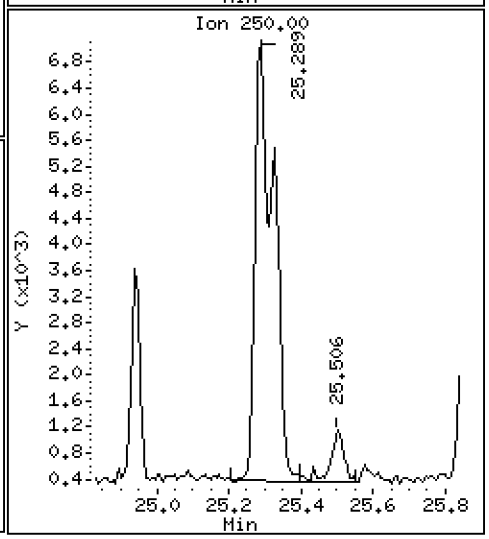












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230C.b\NT1422123082.D
Lab Smp Id: 22L0136-12
Inj Date : 01-JAN-2023 09:05 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : 22L0136-12
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 53
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.927	6.919	(0.756)	141564	5.17483	5.175
$	2 Phenol-d5	99	8.511	8.519	(0.929)	178182	5.27050	5.271
	3 Phenol	94	8.534	8.542	(0.932)	4607	0.11993	0.1199
$	5 2-Chlorophenol-d4	132	8.797	8.797	(0.960)	158425	5.57974	5.580
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	9.160	9.160	(1.000)	85389	4.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	9.517	9.525	(1.039)	66133	3.40788	3.408
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	9.432	9.440	(1.030)	9361	0.54738	0.5474
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	9.937	9.936	(1.085)	2065	0.07013	0.07013
$	18 Nitrobenzene-d5	82	10.255	10.262	(0.879)	107855	4.11626	4.116
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	11.093	11.209	(0.951)	5062	0.30611	0.3061(MH)
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	11.666	11.673	(1.000)	310291	4.00000	
	28 Naphthalene	128	11.704	11.712	(1.003)	5987	0.07840	0.07840
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	142	13.104	13.120	(1.123)	4769	0.08514	0.08514
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	13.894	13.901	(0.908)	212875	4.02175	4.022
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	14.791	14.799	(0.967)	6239	0.14053	0.1405
	40	Acenaphthylene	152	14.985	14.993	(0.979)	3158	0.04599	0.04599
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	15.302	15.310	(1.000)	157429	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	15.364	15.371	(1.004)	3588	0.08425	0.08425
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	15.696	15.704	(1.026)	5567	0.08717	0.08717
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	16.253	16.268	(1.062)	20802	0.34472	0.3447
	49	Fluorene	166	16.407	16.423	(1.072)	5757	0.08474	0.08474
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55	2,4,6-Tribromophenol	330	16.947	16.955	(1.108)	49890	6.53282	6.533
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	18.354	18.361	(1.000)	260367	4.00000	
	60	Phenanthrene	178	18.400	18.408	(1.003)	29671	0.43707	0.4371
	61	Anthracene	178	18.493	18.500	(1.008)	10767	0.16614	0.1661
	62	Carbazole	167	18.825	18.825	(1.026)	3871	0.06179	0.06179
	63	Di-n-butylphthalate	149	19.615	19.614	(1.069)	4116	0.05826	0.05826
	64	Fluoranthene	202	20.791	20.791	(0.889)	97866	1.49732	1.497
	65	Pyrene	202	21.208	21.216	(0.906)	88336	1.28542	1.285
$	66	Terphenyl-d14	244	21.487	21.495	(0.918)	199111	4.08620	4.086
	67	Butylbenzylphthalate	149	22.401	22.408	(0.957)	6603	0.25471	0.2547(M)
	68	Benzo(a)anthracene	228	23.368	23.376	(0.999)	32782	0.53310	0.5331
*	69	Chrysene-d12	240	23.399	23.399	(1.000)	202993	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	23.438	23.446	(1.002)	52907	0.91085	0.9109
	72	bis(2-Ethylhexyl)phthalate	149	23.423	23.430	(0.959)	60182	1.45649	1.456
*	134	Di-n-octylphthalate-d4	153	24.421	24.421	(1.000)	372056	4.00000	
	73	Di-n-octylphthalate	149	24.429	24.429	(1.000)	5240	0.05867	0.05867
	74	Benzo(b)fluoranthene	252	25.288	25.296	(0.969)	64869	1.09411	1.094
	75	Benzo(k)fluoranthene	252	25.327	25.335	(0.971)	40603	0.67285	0.6729(M)
	76	Benzo(a)pyrene	252	25.962	25.970	(0.995)	29224	0.59293	0.5929
*	77	Perylene-d12	264	26.086	26.086	(1.000)	188657	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.846	28.838	(1.106)	12583	0.22458	0.2246
	79	Dibenzo(a,h)anthracene	278	28.853	28.853	(1.106)	3969	0.08336	0.08336(M)
	80	Benzo(g,h,i)perylene	276	29.669	29.653	(1.137)	10774	0.22954	0.2295
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	Compound Not Detected.					
	105	1-methylnaphthalene	142	13.336	13.344	(1.143)	3594	0.06678	0.06678
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.288	25.335	(0.969)	99212	1.73084	1.731
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123082.D
Lab Smp Id: 22L0136-12
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Misc Info:

Calibration Date: 31-DEC-2022
Calibration Time: 23:30
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138755	69378	277510	85389	-38.46
27 Naphthalene-d8	501723	250862	1003446	310291	-38.15
42 Acenaphthene-d10	275234	137617	550468	157429	-42.80
59 Phenanthrene-d10	440085	220043	880170	260367	-40.84
69 Chrysene-d12	384795	192398	769590	202993	-47.25
134 Di-n-octylphthala	674530	337265	1349060	372056	-44.84
77 Perylene-d12	336665	168333	673330	188657	-43.96

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	-0.07
42 Acenaphthene-d10	15.31	14.81	15.81	15.30	-0.05
59 Phenanthrene-d10	18.36	17.86	18.86	18.35	-0.04
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.42	0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123082.D

Lab ID: 22L0136-12
nt14.i, 20221230C.b\ABN.m,   01-JAN-2023 09:05

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.951	0.960	-0.0093	Benzoic acid

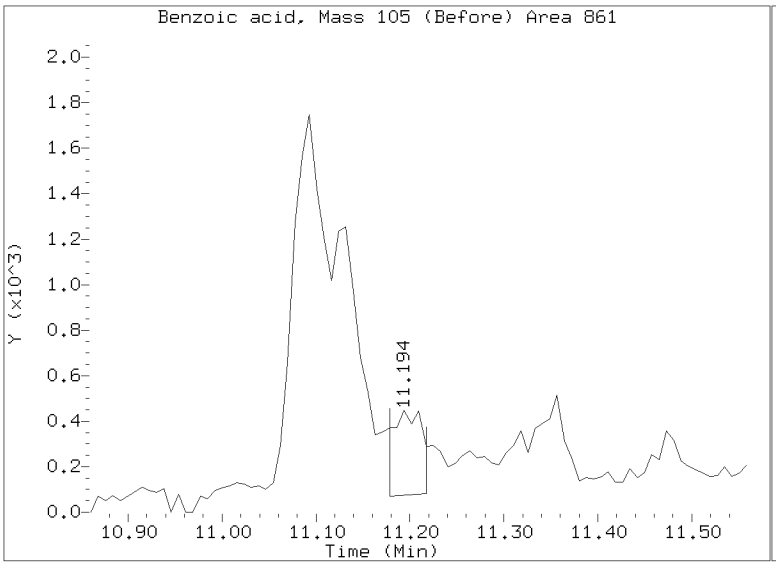
RRT check based on Ccal File: NT1422123066.D

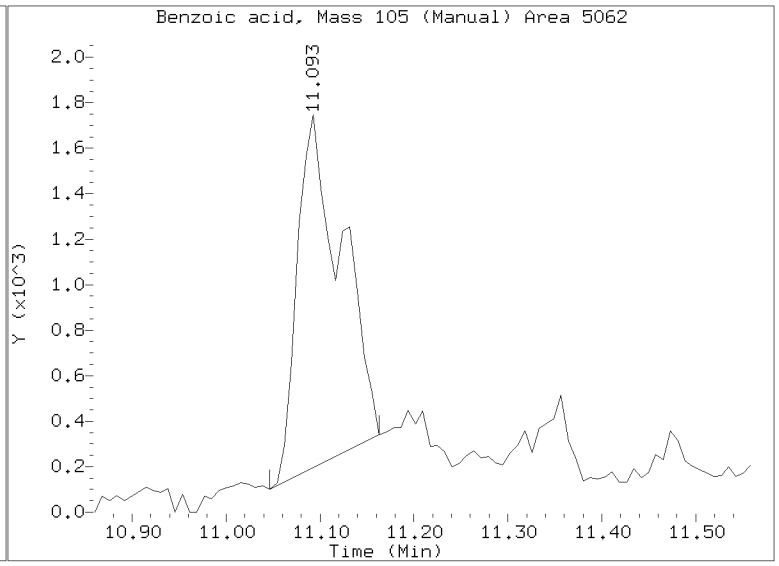
On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

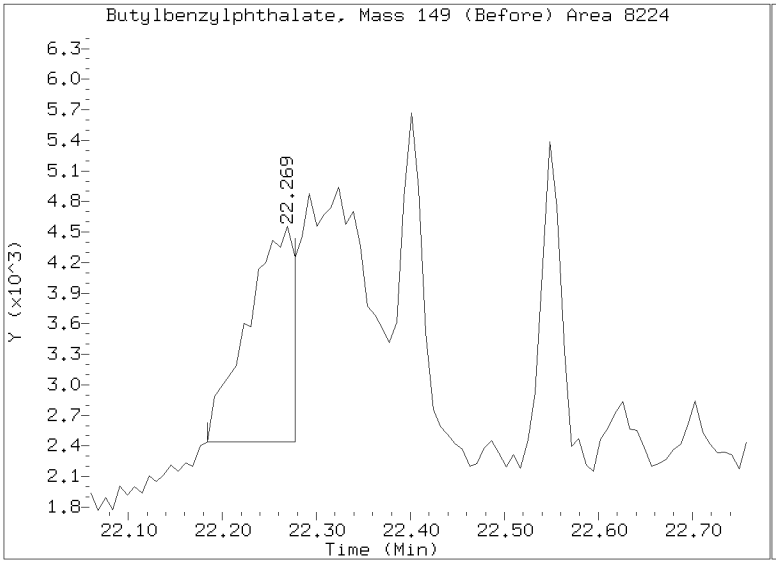
* Only compounds listed in the work order have been verified by the analyst *

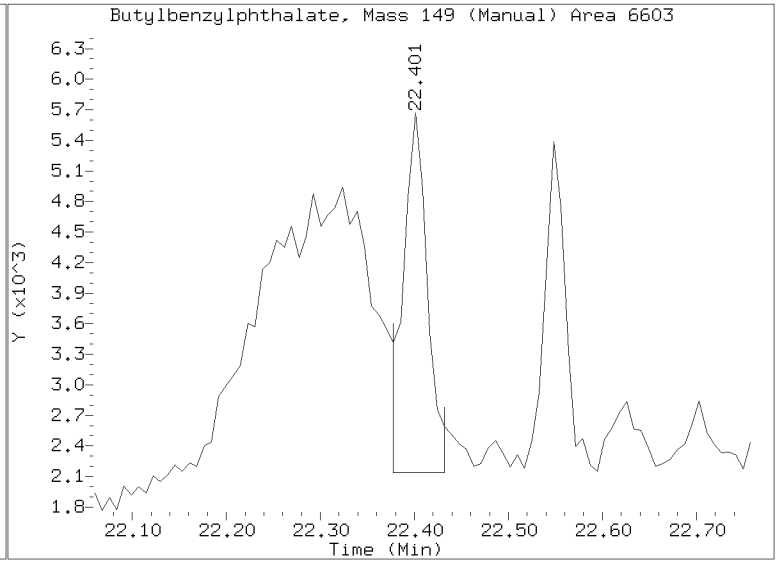
Quant Ion Manual Peak Adjustment Report

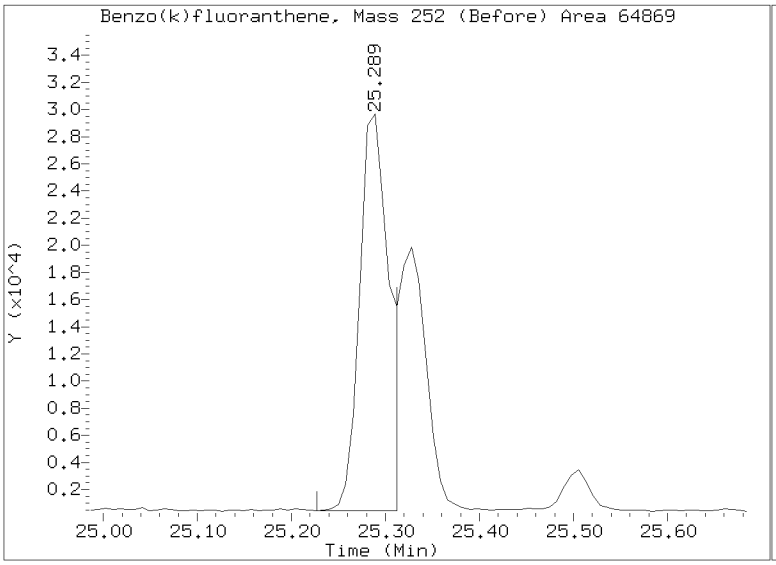
Datafile: //target/share/chem3/nt14.i/20221230C.b/NT1422123082.D
Injection Date: 01-JAN-2023 09:05
Lab ID:22L0136-12 Client ID:
Report Date: 01/04/2023 14:27

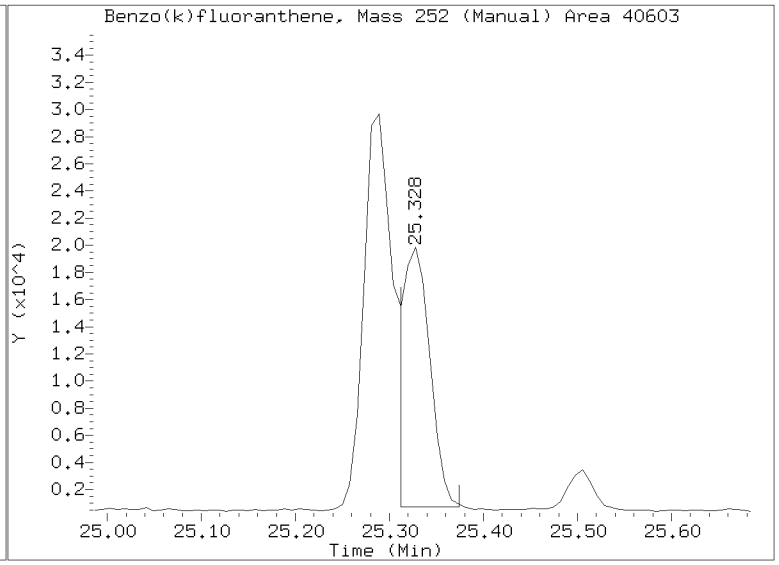






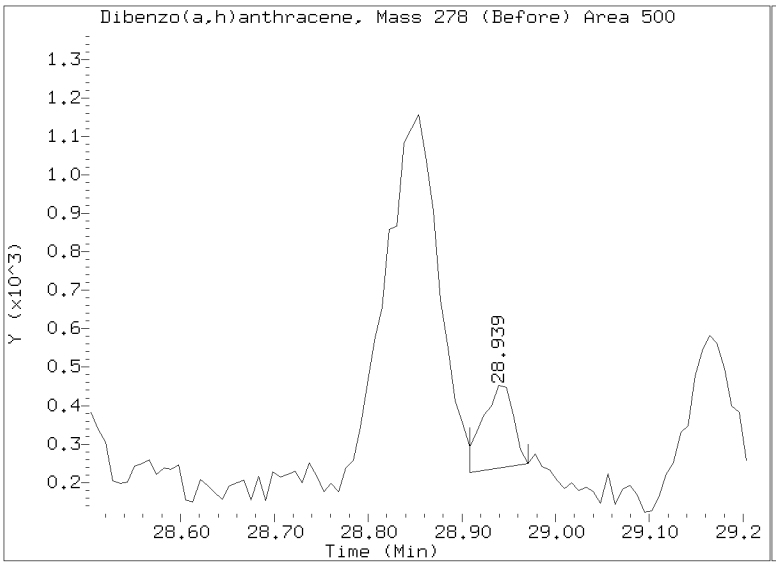


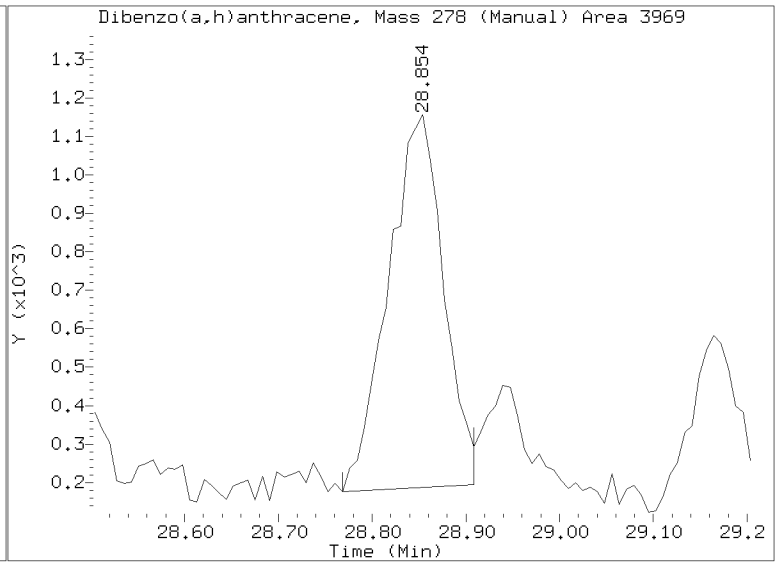




Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230C.b/NT1422123082.D
Injection Date: 01-JAN-2023 09:05
Lab ID:22L0136-12 Client ID:
Report Date: 01/04/2023 14:27





PREPARATION BATCH SUMMARY

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Batch: BKL0193 Batch Matrix: Solid
Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SS823	22L0136-01	NT1422123075.D	12/09/22 14:39	
LDW22-SS786	22L0136-08	NT1422123076.D	12/09/22 14:39	
LDW22-SS766	22L0136-09	NT1422123077.D	12/09/22 14:39	
LDW22-SS771	22L0136-10	NT1422123080.D	12/09/22 14:39	
LDW22-SS771-FD	22L0136-11	NT1422123081.D	12/09/22 14:39	
LDW22-SS772	22L0136-12	NT1422123082.D	12/09/22 14:39	
Blank	BKL0193-BLK1	NT1422123069.D	12/09/22 14:39	
LCS	BKL0193-BS1	NT1422123070.D	12/09/22 14:39	
LCS Dup	BKL0193-BSD1	NT1422123071.D	12/09/22 14:39	
LDW22-SS766	BKL0193-MS1	NT1422123078.D	12/09/22 14:39	
LDW22-SS766	BKL0193-MSD1	NT1422123079.D	12/09/22 14:39	
Reference	BKL0193-SRM1	NT1422123072.D	12/09/22 14:39	

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0193

Prepared using: EPA 3546 (Microwave)

8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:4-MePhenol Only)
8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:BEHP Only)
8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:Phenol Only)

Matrix: Solid Date Prepared: 12/09/22 Balance ID: B14646214 Set Up By: CTO 12/8/22

WO Comments

22L0104: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H>
22L0136: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

The following standards may be missing from this batch!

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

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

Lab Number & Container	% Solids	Initial (g) Target Dry: 10 (Wet) Actual	(REQ) GPC C/U (1:1) 1 2 3	Water Wash 1mL	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
22L0104-01 B	48.0	(20.85) 24.89	(1:1)	1mL	1 ____	0.5 ____	
22L0104-02 B	92.9	(10.77) 10.82	(1:1)	1mL	1 ____	0.5 ____	
22L0136-01 A	51.2	(19.53) 19.55	(1:1)	1mL	1 ____	0.5 ____	
22L0136-08 A	65.9	(15.17) 15.18	(1:1)	1mL	1 ____	0.5 ____	
22L0136-09 A	75.5	(13.25) 13.27	(1:1)	1mL	1 ____	0.5 ____	
22L0136-10 A	42.7	(23.44) 23.48	(1:1)	1mL	1 ____	0.5 ____	
22L0136-11 A	42.5	(23.51) 23.55	(1:1)	1mL	1 ____	0.5 ____	
22L0136-12 A	38.9	(25.70) 25.72	(1:1)	1mL	1 ____	0.5 ____	

Batch QC

Lab Number	% Solids	Initial (g) Target Dry: 10 (Wet) Actual	(REQ) GPC C/U (1:1) 1 2 3	Water Wash 1mL	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BKL0193-BLK1	100.0	(10.00) 10.00	(1:1)	1mL	1 ____	0.5 ____	Use 5g Neutral Sodium Sulfate for Blanks
BKL0193-BS1	100.0	(10.00) 10.00	(1:1)	1mL	1 ____	0.5 ____	Use 5g Neutral Sodium Sulfate for Blanks
BKL0193-BSD1	100.0	(10.00) 10.00	(1:1)	1mL	1 ____	0.5 ____	Use 5g Neutral Sodium Sulfate for Blanks
BKL0193-MS1	75.5	(13.25) 13.25	(1:1)	1mL	1 ____	0.5 ____	Use 22L0136-09
BKL0193-MSD1	75.5	(13.25) 13.25	(1:1)	1mL	1 ____	0.5 ____	Use 22L0136-09
BKL0193-SRM1	100.0	~~(10.80)~~ (1.00) 1.00	(1:1)	1mL	1 ____	0.5 ____	Use K000591

+1g DI WATER

12/09/22 — Client ID Verified By — Date
ZH — 12/9/22 — Preparation Reviewed By — Date
12/09/22 14:39 — Extraction Date and Time

Printed: 12/8/2022 11:19:34AM

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0193

Prepared using: EPA 3546 (Microwave)

8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:4-MePhenol Only)
8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:BEHP Only)
8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:Phenol Only)

WO Comments

22L0104: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H>

22L0136: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

Prep Steps

Microwave
CT (1) 2 3
CT 12/09/22
Analyst/Date

Pre-GPC KD
100°C
Exchange to Hexane
(add 10 mL to KD)
0 2 (4) 5 6
CP 12/12/22
Analyst/Date

TurboVap
Pre GPC
1 2 3 (4) 5
AA 12-13-22
Analyst/Date

Post GPC KD
80-85°C
0 (2) 4 5 (6)
LJ 12/15/22
Analyst/Date

TurboVap
1 2 3 (4) 5
ZH 12/19/22
Analyst/Date

Water Wash
ZH 12/19/22
Analyst/Date

Reagents Used

Station/Reagent	Standard ID
Microwave Analyst: CT Date: 12/09/22	
Anhydrous Sodium Sulfate	K010995
1:1 Methylene Chloride/Acetone	K010579
Methylene Chloride	K004735
Pre-Deactivated Glass Wool	K010197
Pre GPC KD Analyst: CP Date: 12/12/22	
Pre-Deactivated Glass Wool	
Anhydrous Sodium Sulfate	
Methylene Chloride	K010561
Hexane	K008310
GPC Filter Prep Analyst: AA Date: 12-13-22	
Methylene Chloride	K0010561
GPC Analyst: AA Date: 12-13-22	
Methylene Chloride	K0010561
GPC Calibration File	CHK0217-GPC2
Post GPC KD Analyst: LJ Date: 12/15/22	
Methylene Chloride	K010561
Vialing Analyst: ZH Date: 12/19/22	
Methylene Chloride	K0010561

Surrogates & Spike Standards Used

Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
Surrogate 100/150µg/mL	A K010466 Exp Date: 5/9/2023	50µL	CT	
Full List Spike (Freezer) 100µg/mL	7 ~~K010225~~ (V) K011369 K011297 Exp Date: 3/31/2023	50µL	CT	
Base Spike 200µg/mL	56 ~~K010225~~ (V) K011369 K004375 Exp Date: 4/19/2023	50µL	CT	
Acid Spike 100/200µg/mL	38 ~~K010225~~ (V) K011369 K004376 Exp Date: 4/19/2023	50µL	CT	

MANUALLY ENTER EXPIRATION DATES!

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

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

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0193

Prepared using: EPA 3546 (Microwave)

8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:4-MePhenol Only)
8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:BEHP Only)
8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:Phenol Only)

WO Comments

22L0104: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H>
22L0136: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

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

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

Extraction Parameter: SVOA Extraction Batch BKL0193

Total Solids Batch: BKL0132 Work Order(s): 22L0136

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
[X] No Anomalies (standard soil/wet sediment/sand/gravel)= ~2.	CR 12/6
[ ] Standing Water Decanted (Not shared)=	
[ ] Standing Water Homogenized (Shared samples)=	
[ ] Clay/Clumps (Difficult to homogenize)=	
[X] Rocks (%+size)? ~10% ~1	CR 12/6
[ ] Organics (Leaves/sticks/grass)=	
[ ] Oily, obvious fuel/sulfur odors=	
[ ] Received in 32oz jar(s)=Homogenized in Pyrex dish=	
[ ] Previously Frozen =	
[ ] Other (Details)=	
Aqueous:	
[ ] No Anomalies	
[ ] Turbid/Color=	
[ ] Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
[ ] Emulsions (%)=	
[ ] Oily, obvious fuel/sulfur odors=	
[ ] Other (Details)=	
[ ] Received in 1.0L Bottle(s)=No Bottle Rinse=	
[ ] Other Notes/Comments= (Note problems, concerns, corrective actions).	
[X] Share Samples Y / N	CR 12/6
[ ] Multiple Jars Y / N	CR 12/6
[ ] Sample Pre-Screens indicate analyte activity=	
[ ] Sample weights/volumes reduced based on Pre-Screen=	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

Extraction Parameter: SVOA Extraction Batch: BKL0193

Total Solids Batch: BKL0171 Work Order(s): 22L0136

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
☒ No Anomalies (standard soil/wet sediment/sand/gravel)= ϕ1 ~ ϕ3, ϕ5 ~ ϕ7, 9.	✓ 12/07/22
☒ Standing Water Decanted (Not shared)= ϕ1, ϕ4, 6 – 14.	✓ 12/07/22
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay/Clumps (Difficult to homogenize)=	
☒ Rocks (%+size)? 1/411 5.0% =ϕ8	✓ 12/07/22
☒ Organics (Leaves/sticks/grass)= 5.0% =ϕ4. 60.0% = 14.	✓ 12/07/22
☒ Oily, obvious fuel/sulfur odors= 1ϕ – 13.	✓ 12/07/22
☐ Received in 32oz jar(s)=Homogenized in Pyrex dish=	
☐ Previously Frozen =	
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
☐ Emulsions (%)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
☐ Received in 1.0L Bottle(s)=No Bottle Rinse=	
☐ Other Notes/Comments= (Note problems, concerns, corrective actions).	
☒ Share Samples Y / N	✓ 12/07/22
☒ Multiple Jars Y / N	✓ 12/07/22
☐ Sample Pre-Screens indicate analyte activity=	
☐ Sample weights/volumes reduced based on Pre-Screen=	

GPC1

BAN_Method_GPC1

BKL0193

Sample Description:

Sample ID : BKL0193

Sample : BKL0193-BLK

Method : BAN_Method_GPC1

Description : GPC1- BAN

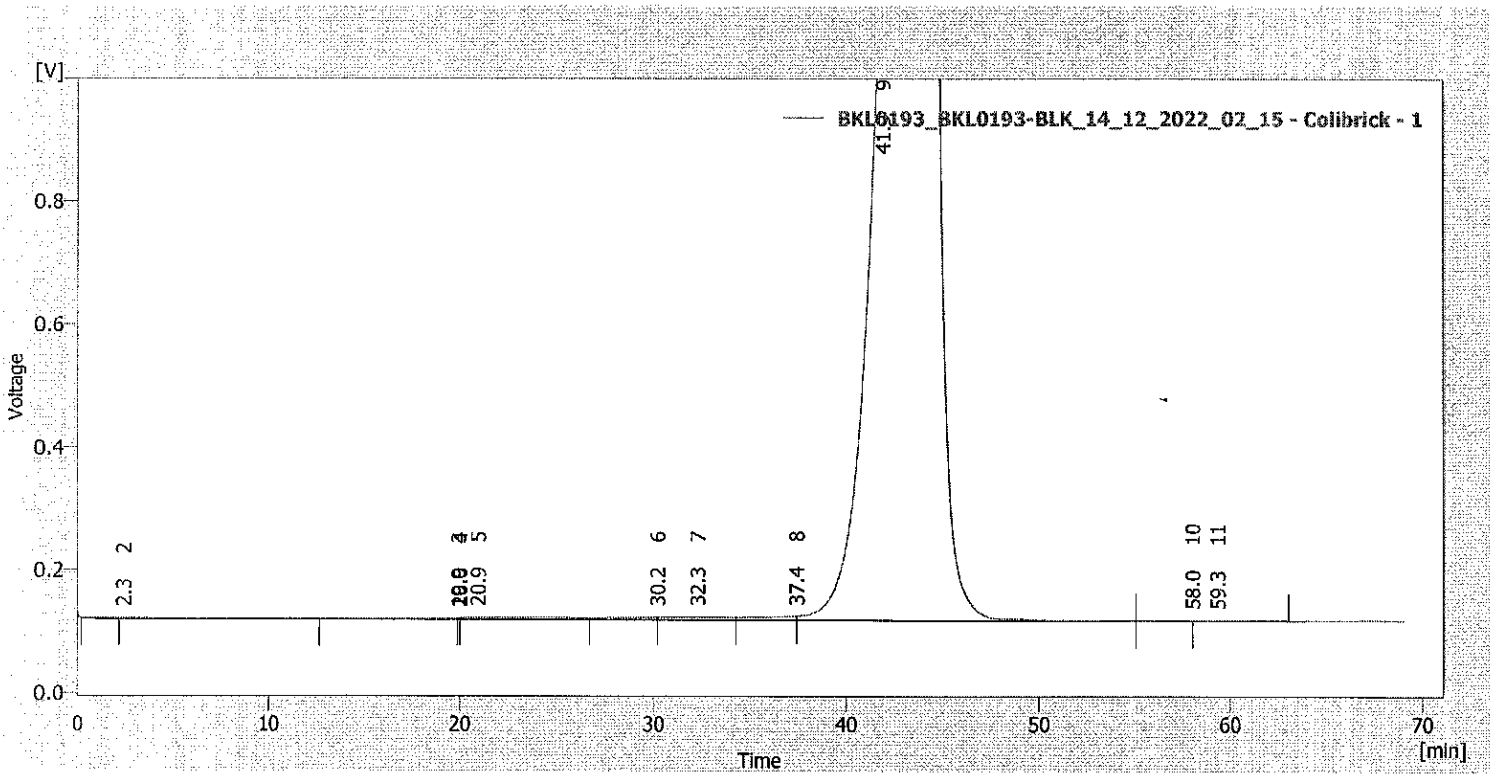
Created : 10/18/2013 6:05 AM

By : Administrator

Modified : 12/14/2022 2:15 AM

Time and Input Events Table (BAN_Method_GPC1)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	☐
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	☐
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	☐
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	☐



GPC1

BAN_Method_GPC1

BKL0193

Sample Description:

Sample ID : BKL0193

Sample : BKL0193-BS

Method : BAN_Method_GPC1

Description : GPC1- BAN

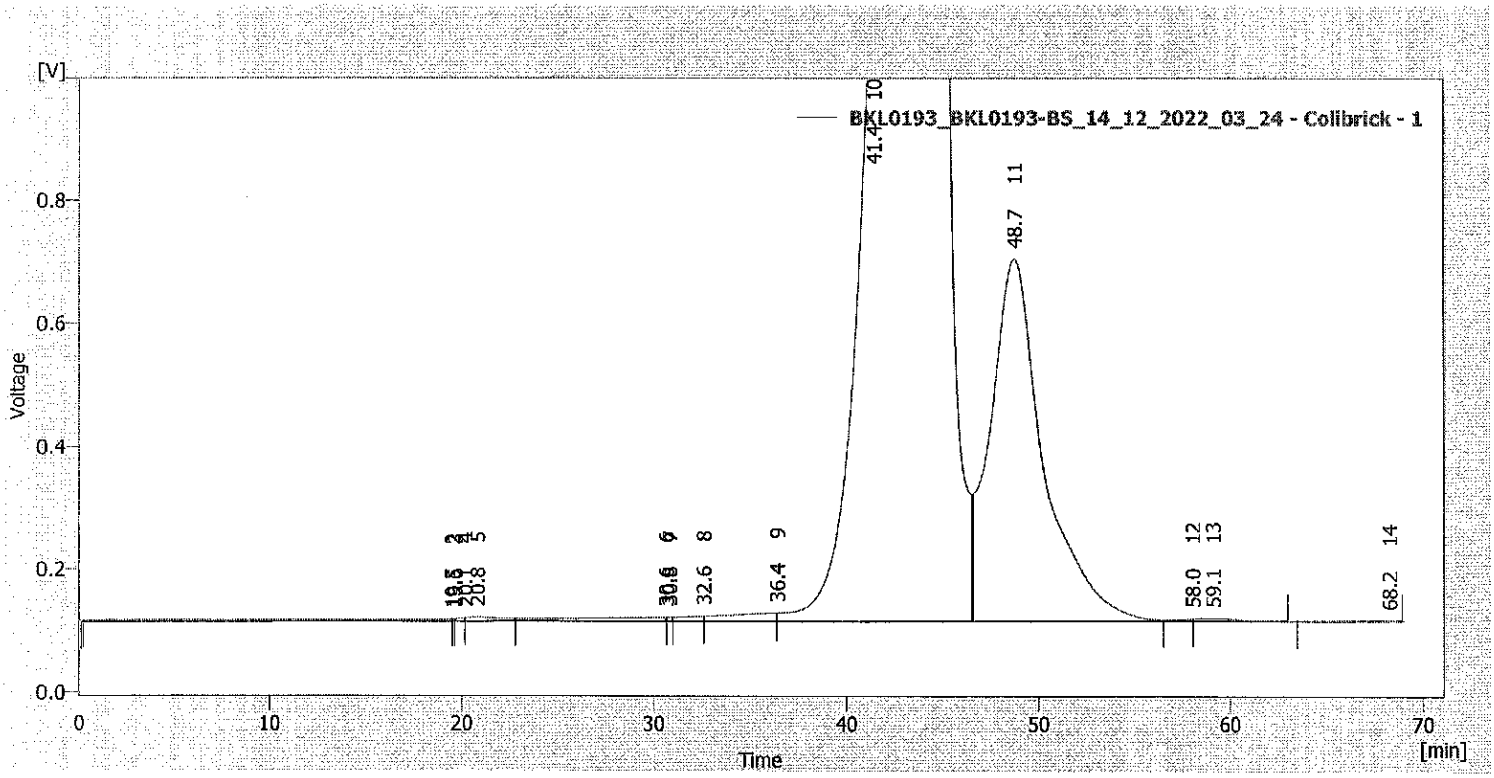
Created : 10/18/2013 6:05 AM

By : Administrator

Modified : 12/14/2022 3:24 AM

Time and Input Events Table (BAN_Method_GPC1)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	☐
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	☐
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	☐
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	☐



GPC1

BAN_Method_GPC1

BKL0193

Sample Description:

Sample ID : BKL0193

Sample : BKL0193-BSD

Method : BAN_Method_GPC1

Description : GPC1- BAN

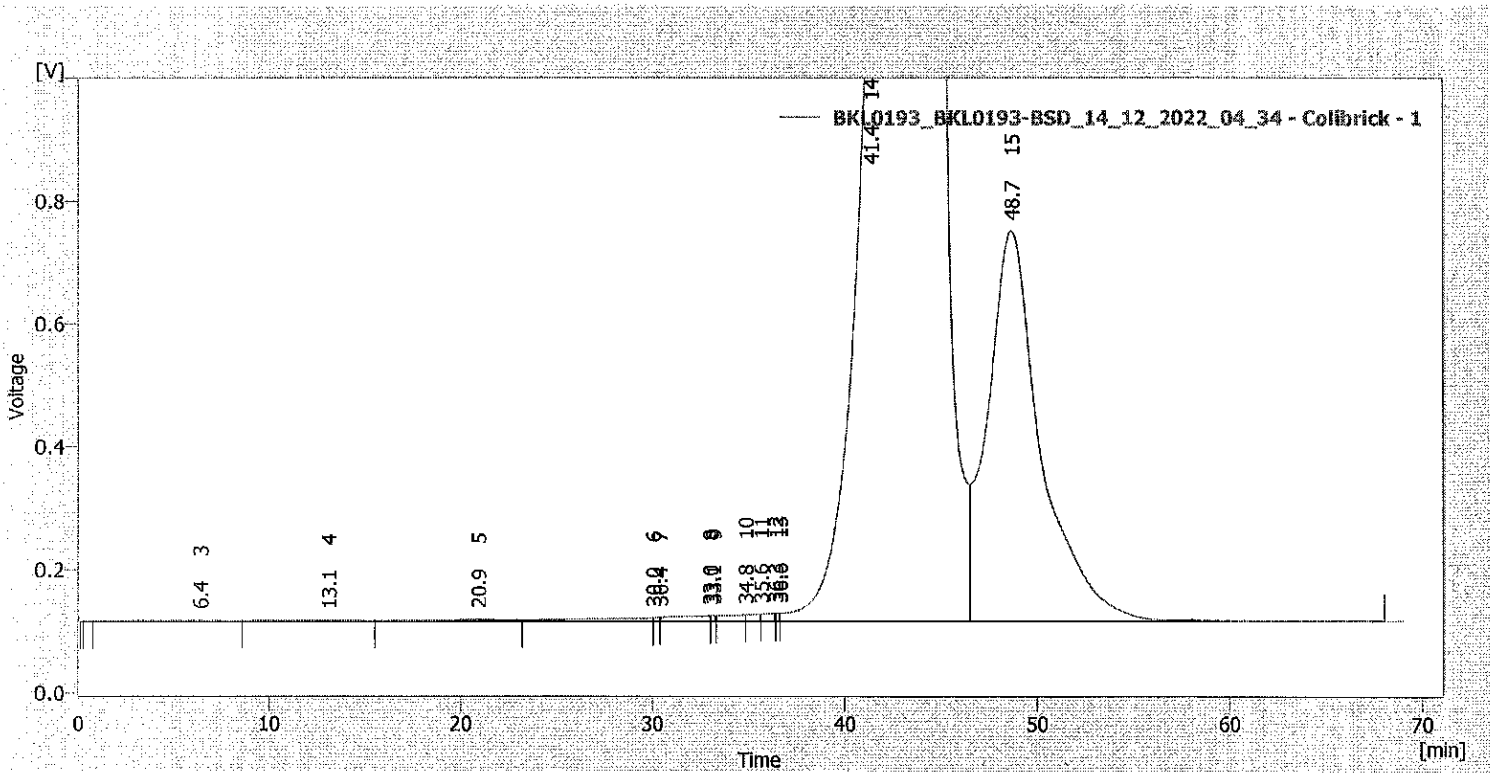
Created : 10/18/2013 6:05 AM

By : Administrator

Modified : 12/14/2022 4:34 AM

Time and Input Events Table (BAN_Method_GPC1)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	☐
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	☐
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	☐
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	☐



GPC1

BAN_Method_GPC1

BKL0193

Sample Description:

Sample ID : BKL0193

Sample : BKL0193-SRM

Method : BAN_Method_GPC1

Description : GPC1- BAN

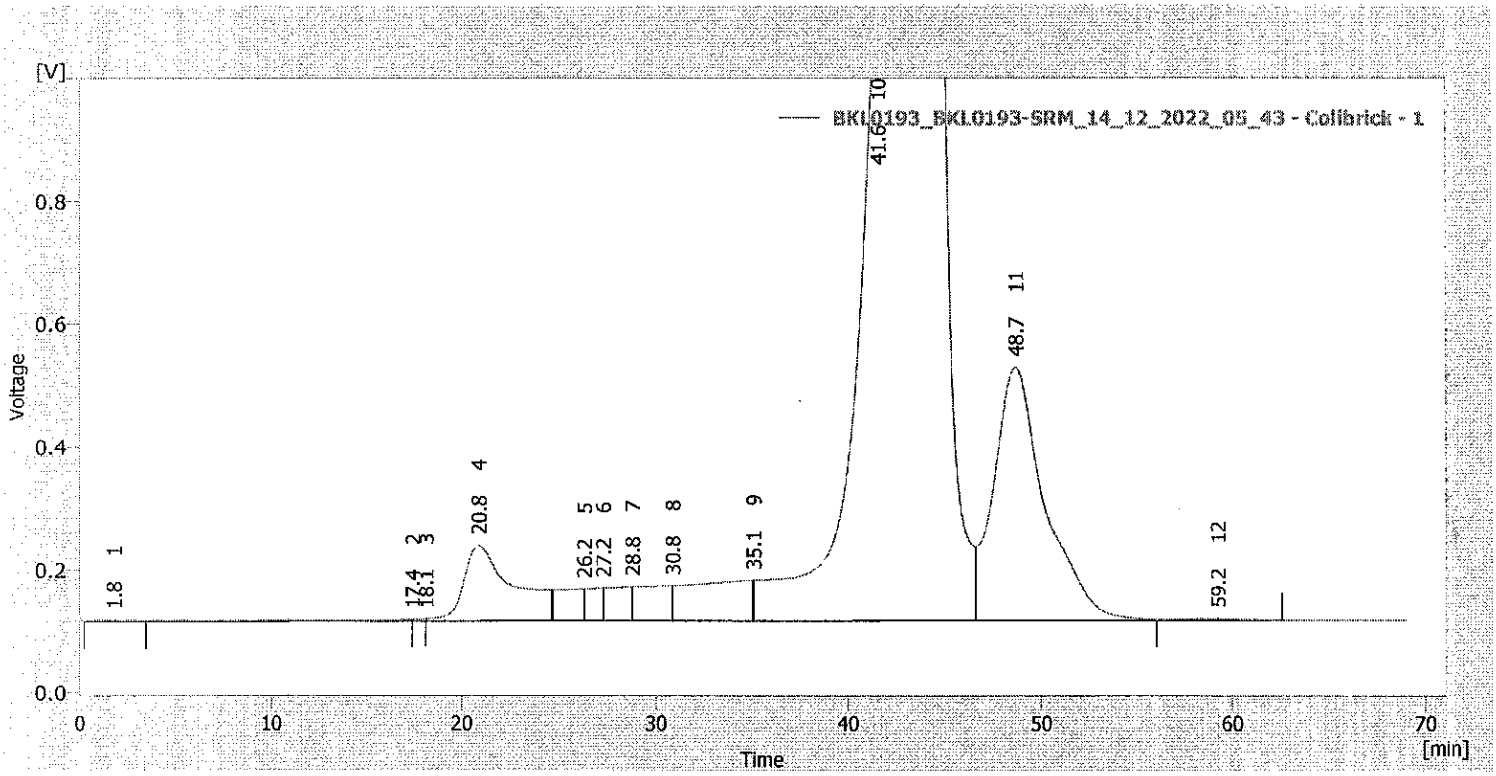
Created : 10/18/2013 6:05 AM

By : Administrator

Modified : 12/14/2022 5:43 AM

Time and Input Events Table (BAN_Method_GPC1)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	☐
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	☐
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	☐
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	☐



GPC1

BAN_Method_GPC1

BKL0193

Sample Description:

Sample ID : BKL0193

Sample : 22L0104-01

Method : BAN_Method_GPC1

Description : GPC1- BAN

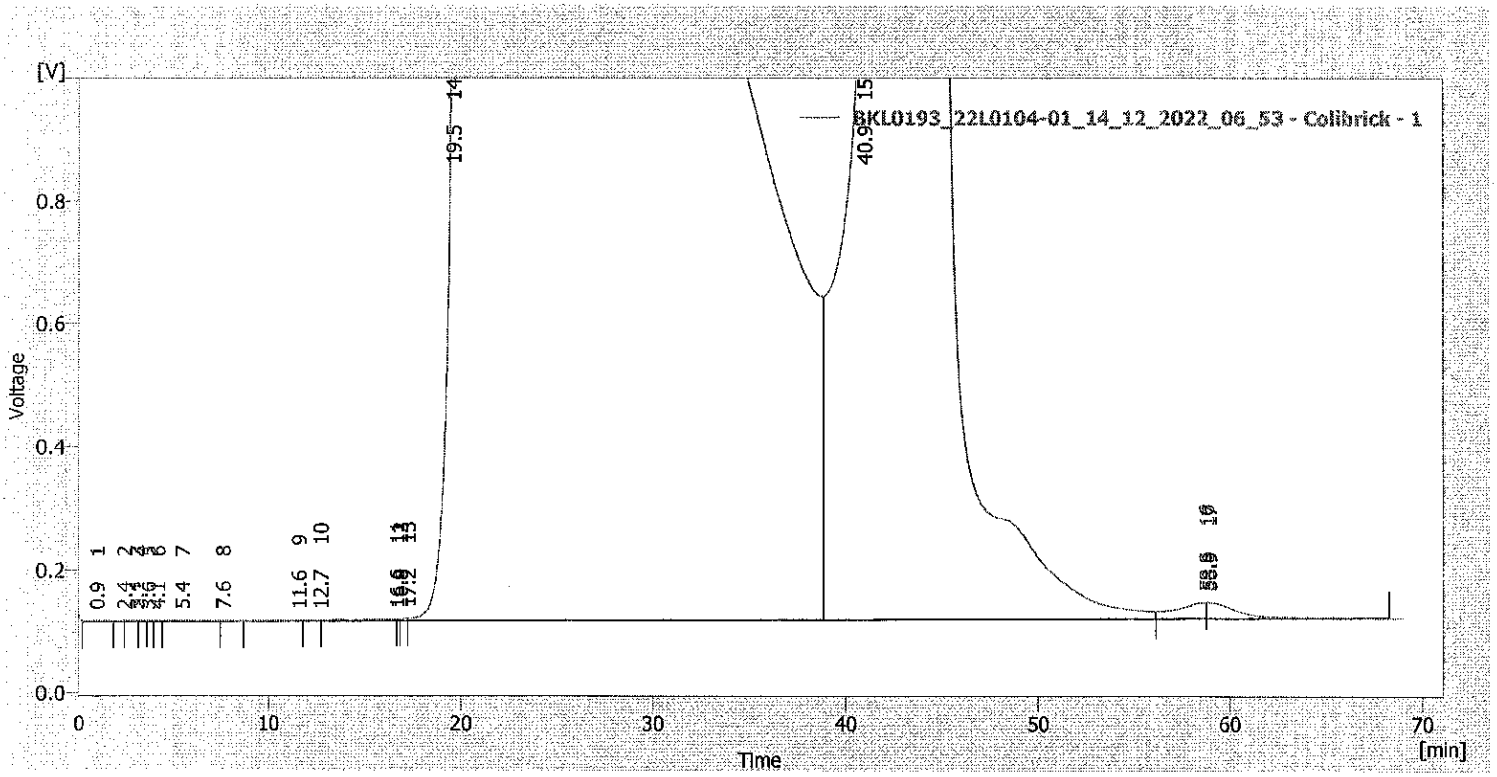
Created : 10/18/2013 6:05 AM

By : Administrator

Modified : 12/14/2022 6:53 AM

Time and Input Events Table (BAN_Method_GPC1)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	☐
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	☐
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	☐
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	☐



GPC1

BAN_Method_GPC1

BKL0193

Sample Description:

Sample ID : BKL0193

Sample : 22L0104-02

Method : BAN_Method_GPC1

Description : GPC1- BAN

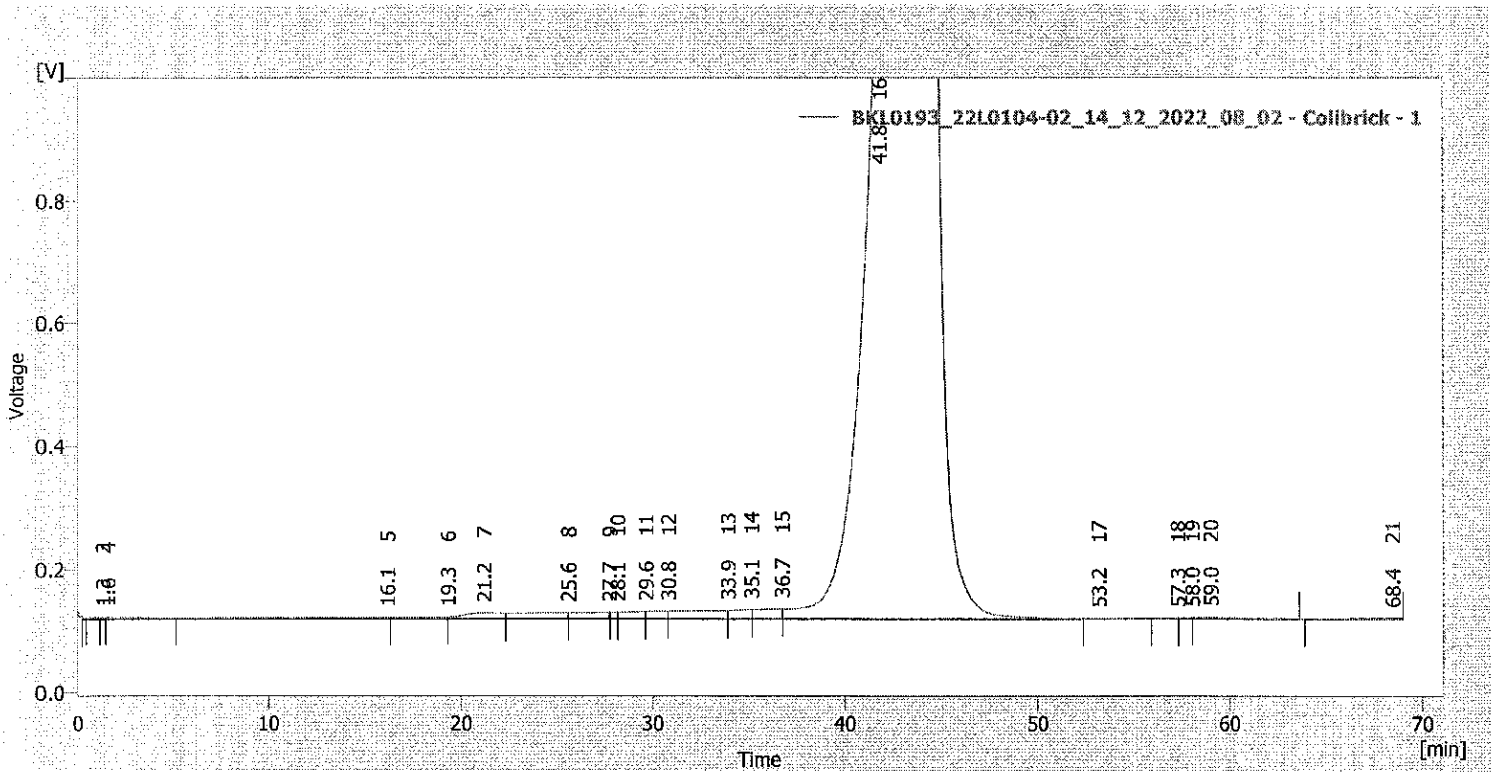
Created : 10/18/2013 6:05 AM

By : Administrator

Modified : 12/14/2022 8:02 AM

Time and Input Events Table (BAN_Method_GPC1)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	☐
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	☐
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	☐
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	☐



GPC1

BAN_Method_GPC1

BKL0193

Sample Description:

Sample ID : BKL0193

Sample : 22L0136-01

Method : BAN_Method_GPC1

Description : GPC1- BAN

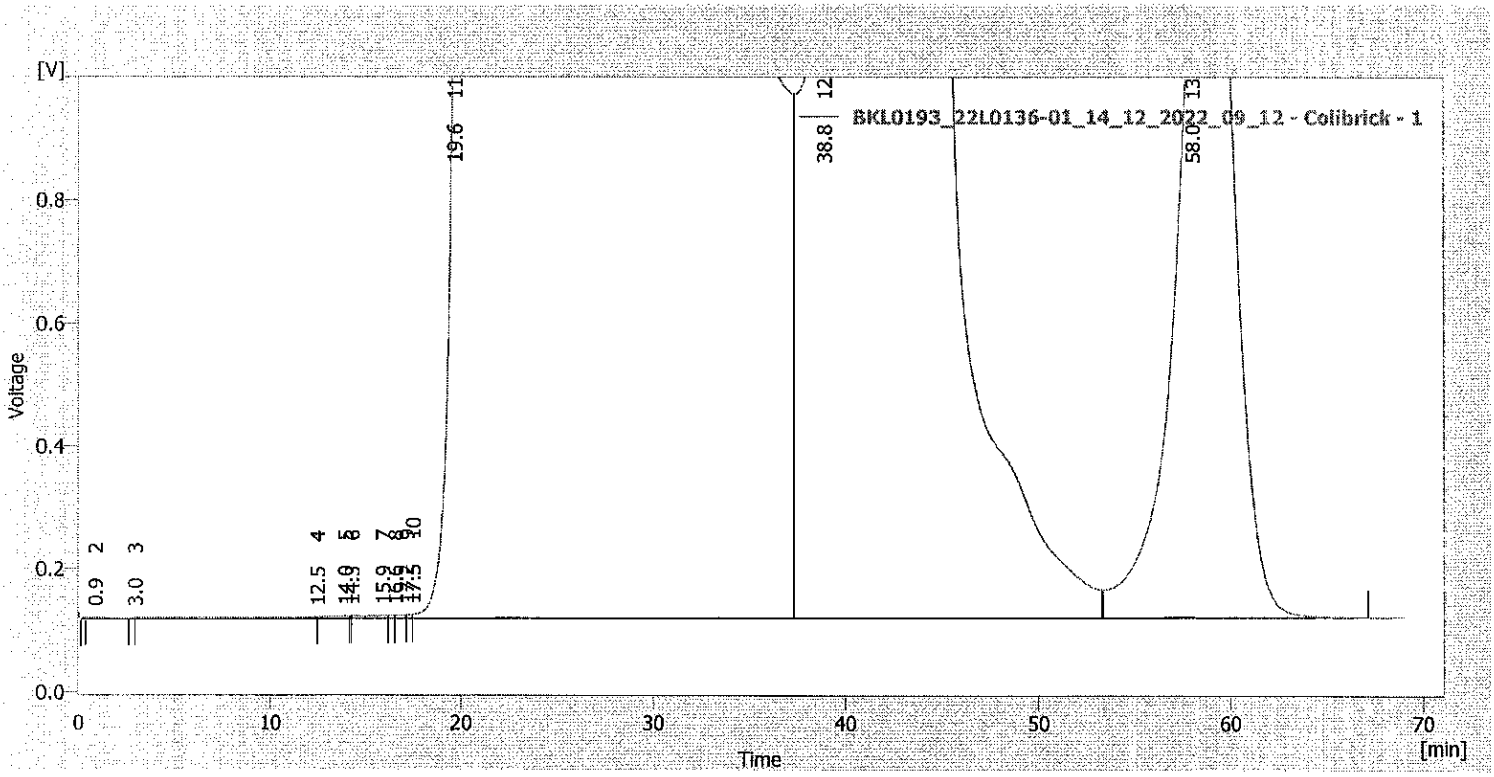
Created : 10/18/2013 6:05 AM

By : Administrator

Modified : 12/14/2022 9:12 AM

Time and Input Events Table (BAN_Method_GPC1)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	☐
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	☐
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	☐
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	☐



GPC1

BAN_Method_GPC1

BKL0193

Sample Description:

Sample ID : BKL0193

Sample : 22L0136-08

Method : BAN_Method_GPC1

Description : GPC1- BAN

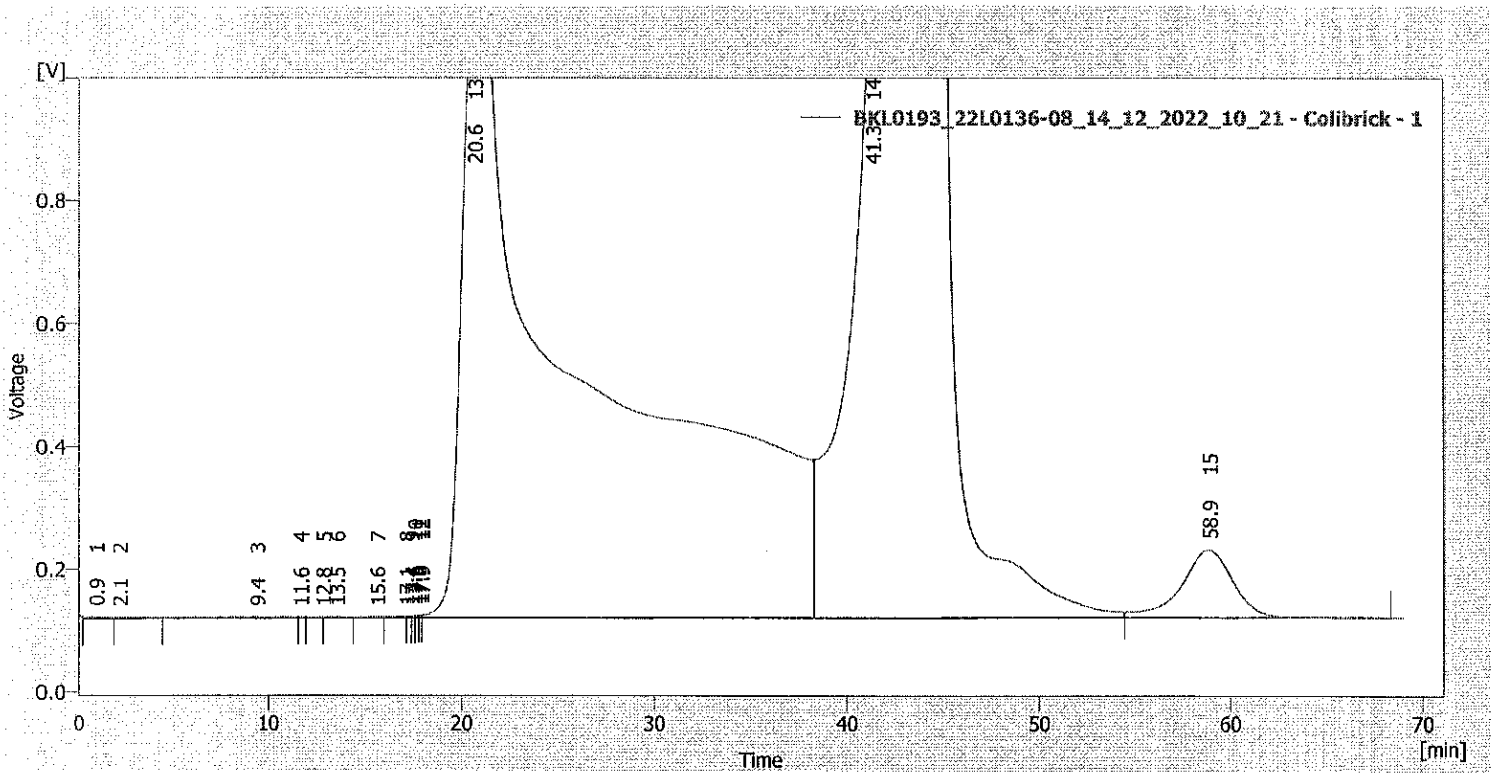
Created : 10/18/2013 6:05 AM

By : Administrator

Modified : 12/14/2022 10:21 AM

Time and Input Events Table (BAN_Method_GPC1)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	☐
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	☐
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	☐
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	☐



GPC1

BAN_Method_GPC1

BKL0193

Sample Description:

Sample ID : BKL0193

Sample : 22L0136-09

Method : BAN_Method_GPC1

Description : GPC1- BAN

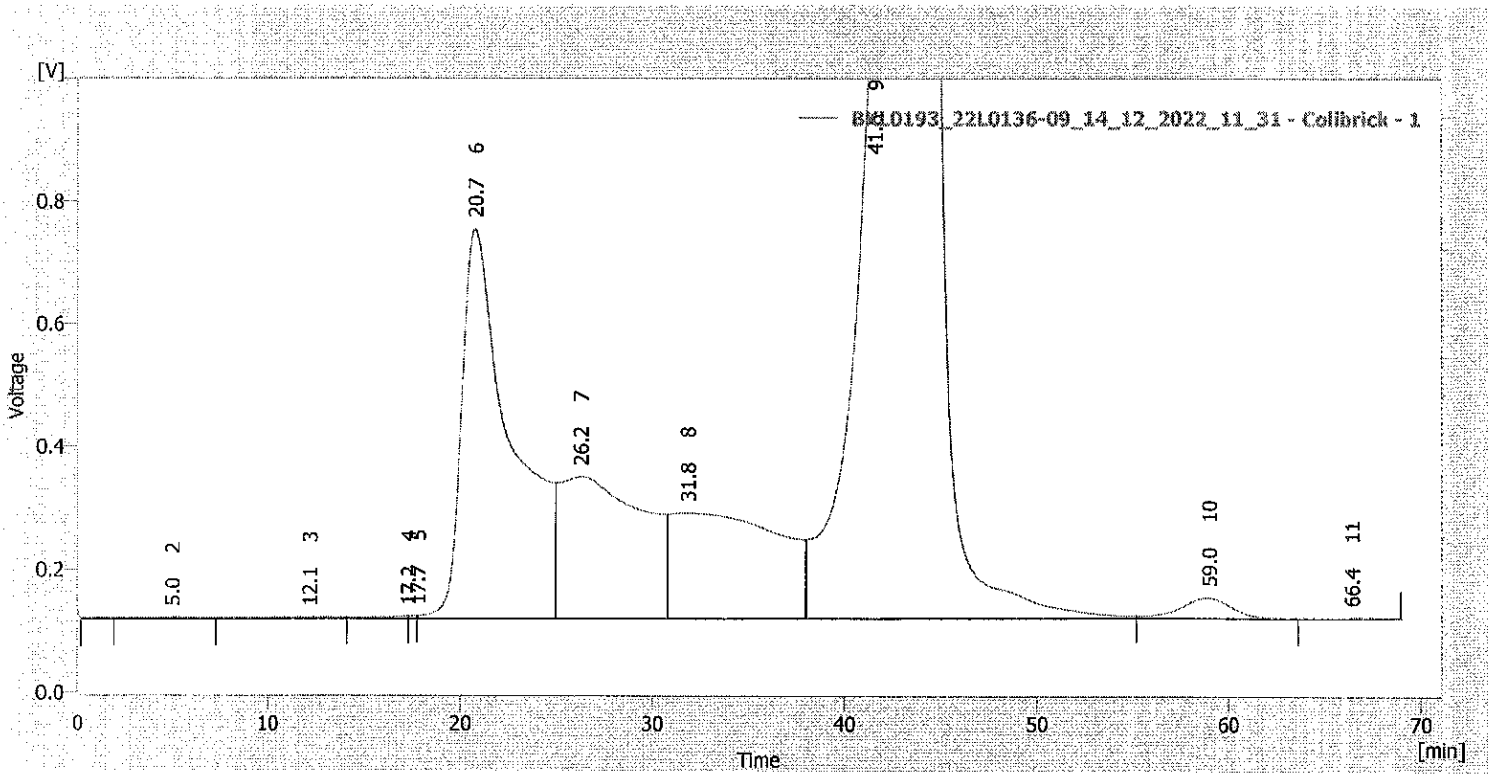
Created : 10/18/2013 6:05 AM

By : Administrator

Modified : 12/14/2022 11:31 AM

Time and Input Events Table (BAN_Method_GPC1)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	☐
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	☐
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	☐
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	☐



GPC1

BAN_Method_GPC1

BKL0193

Sample Description:

Sample ID : BKL0193

Sample : BKL0193-MS

Method : BAN_Method_GPC1

Description : GPC1- BAN

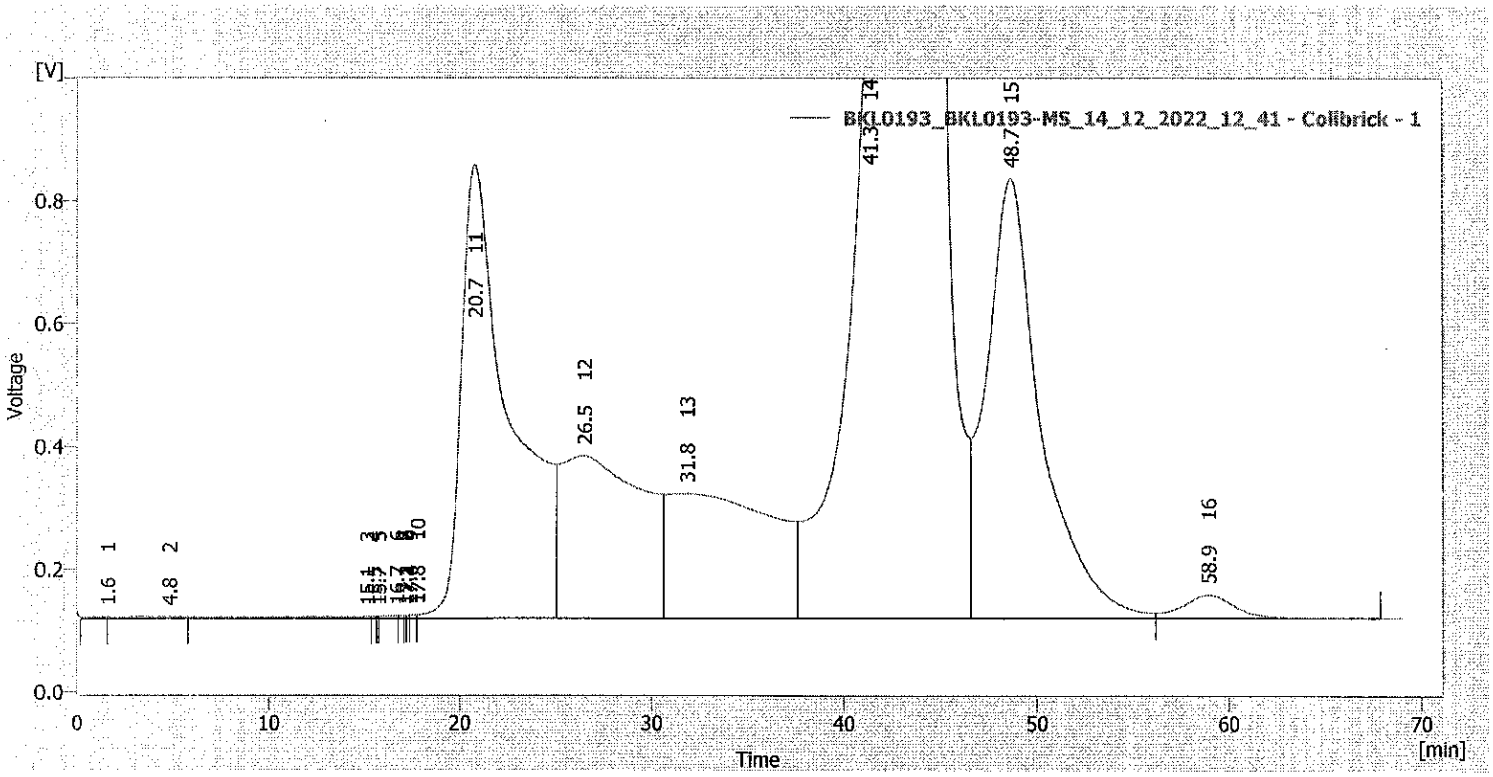
Created : 10/18/2013 6:05 AM

By : Administrator

Modified : 12/14/2022 12:41 PM

Time and Input Events Table (BAN_Method_GPC1)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	☐
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	☐
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	☐
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	☐



GPC1

BAN_Method_GPC1

BKL0193

Sample Description:

Sample ID : BKL0193

Sample : BKL0193-MSD

Method : BAN_Method_GPC1

Description : GPC1- BAN

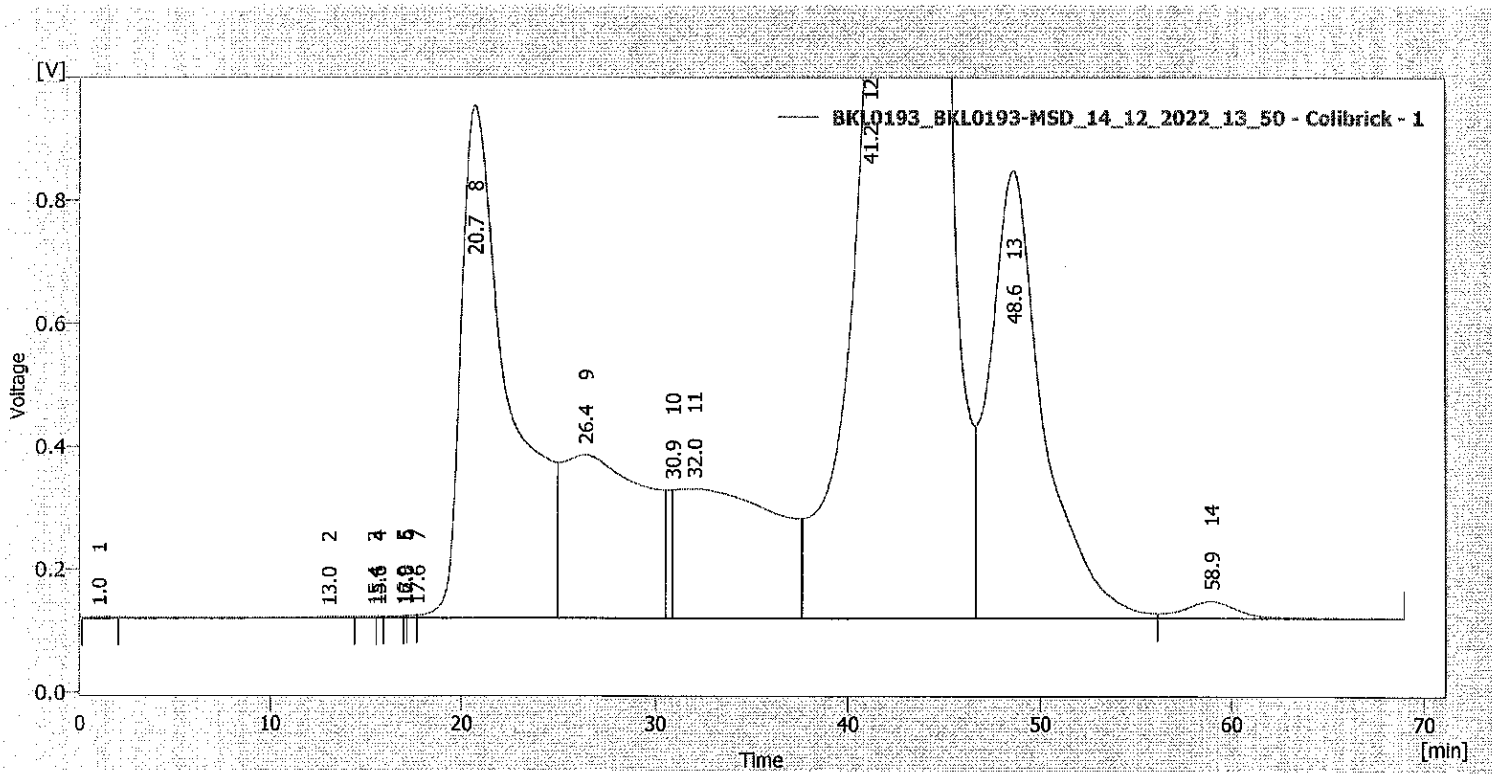
Created : 10/18/2013 6:05 AM

By : Administrator

Modified : 12/14/2022 1:50 PM

Time and Input Events Table (BAN_Method_GPC1)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	☐
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	☐
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	☐
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	☐



GPC1

BAN_Method_GPC1

BKL0193

Sample Description:

Sample ID : BKL0193

Sample : 22L0136-10

Method : BAN_Method_GPC1

Description : GPC1- BAN

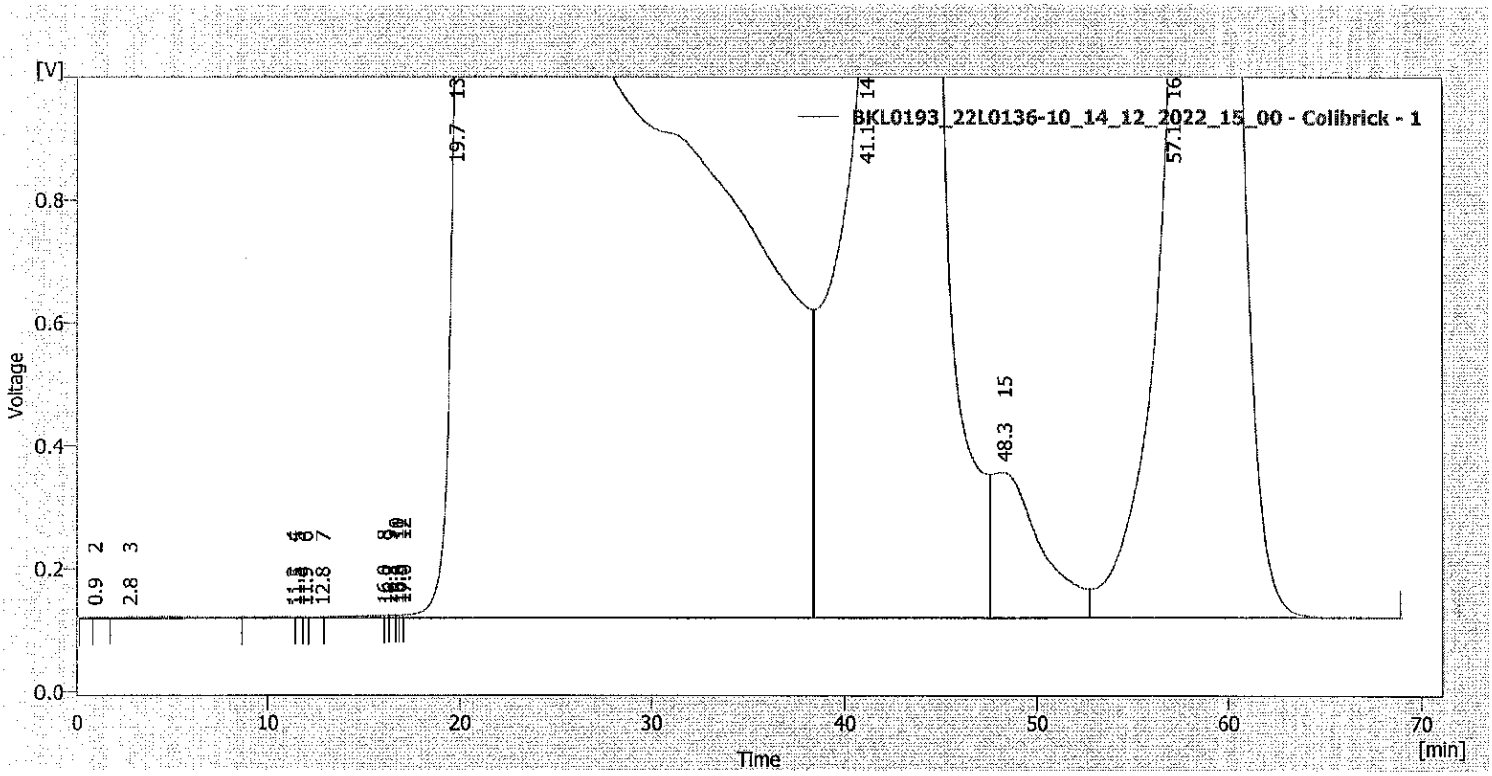
Created : 10/18/2013 6:05 AM

By : Administrator

Modified : 12/14/2022 3:00 PM

Time and Input Events Table (BAN_Method_GPC1)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Collbrick	gpc1collect	High	☐
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	☐
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	☐
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	☐



GPC1

BAN_Method_GPC1

BKL0193

Sample Description:

Sample ID : BKL0193

Sample : 22L0136-11

Method : BAN_Method_GPC1

Description : GPC1- BAN

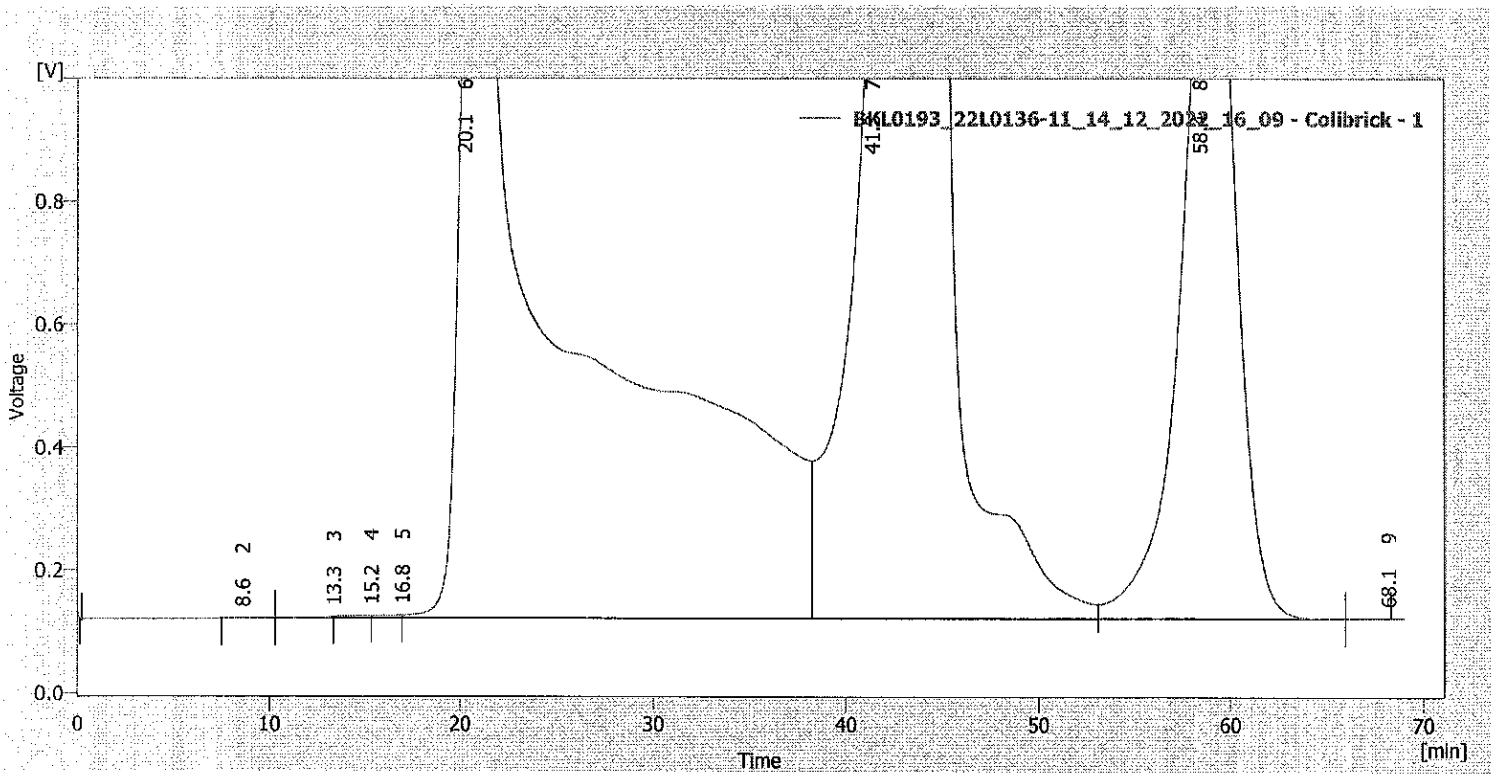
Created : 10/18/2013 6:05 AM

By : Administrator

Modified : 12/14/2022 4:09 PM

Time and Input Events Table (BAN_Method_GPC1)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	☐
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	☐
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	☐
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	☐



GPC1

BAN_Method_GPC1

BKL0193

Sample Description:

Sample ID : BKL0193

Sample : 22L0136-12

Method : BAN_Method_GPC1

Description : GPC1- BAN

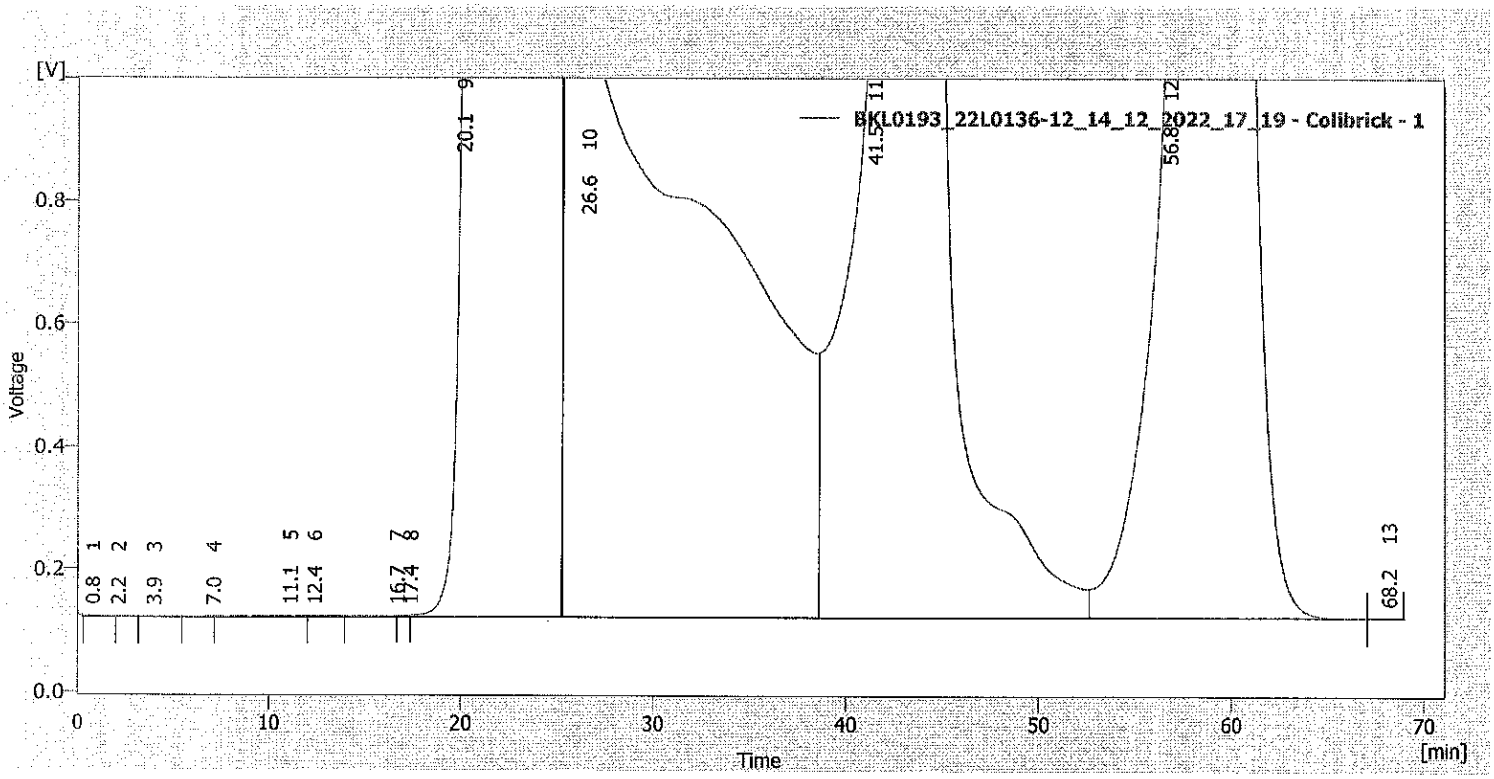
Created : 10/18/2013 6:05 AM

By : Administrator

Modified : 12/14/2022 5:19 PM

Time and Input Events Table (BAN_Method_GPC1)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	☐
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	☐
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	☐
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	☐



Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Cleanup Batch:	CKL0209	Cleanup Type:	GPC
Cleanup Method:	EPA 3640A GPC Cleanup 1:1	Analysis:	EPA 8270E

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SS771	22L0136-10	NT1422123080.D	12/19/2022	
LDW22-SS823	22L0136-01	NT1422123075.D	12/19/2022	
LDW22-SS786	22L0136-08	NT1422123076.D	12/19/2022	
Reference	BKL0193-SRM1	NT1422123072.D	12/19/2022	
LDW22-SS771-FD	22L0136-11	NT1422123081.D	12/19/2022	
Blank	BKL0193-BLK1	NT1422123069.D	12/19/2022	
LDW22-SS772	22L0136-12	NT1422123082.D	12/19/2022	
Matrix Spike Dup	BKL0193-MSD1	NT1422123079.D	12/19/2022	
Matrix Spike	BKL0193-MS1	NT1422123078.D	12/19/2022	
LDW22-SS766	22L0136-09	NT1422123077.D	12/19/2022	
LCS	BKL0193-BS1	NT1422123070.D	12/19/2022	
LCS Dup	BKL0193-BSD1	NT1422123071.D	12/19/2022	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CKL0209

Matrix: Solid **Cleanup using: Organics - EPA 3640A GPC Cleanup 1:1** **Check Standard: CKK0217-GPC2** **Printed: 12/19/2022 1:24:12PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0104-01	B	LDW22-SS773	B 02	1	1	SVOC (20ug/kg solid or 0.2ug/L low H2	12/19/2022	ZH	
22L0104-02	B	LDW22-SS774	B 02	1	1	SVOC (20ug/kg solid or 0.2ug/L low H2	12/19/2022	ZH	
22L0136-01	A	LDW22-SS823	A 02	1	1	SVOC (20ug/kg solid or 0.2ug/L low H2	12/19/2022	ZH	
22L0136-08	A	LDW22-SS786	A 02	1	1	SVOC (20ug/kg solid or 0.2ug/L low H2	12/19/2022	ZH	
22L0136-09	A	LDW22-SS766	A 02	1	1	SVOC (20ug/kg solid or 0.2ug/L low H2	12/19/2022	ZH	
22L0136-10	A	LDW22-SS771	A 02	1	1	SVOC (20ug/kg solid or 0.2ug/L low H2	12/19/2022	ZH	
22L0136-11	A	LDW22-SS771-FD	A 02	1	1	SVOC (20ug/kg solid or 0.2ug/L low H2	12/19/2022	ZH	
22L0136-12	A	LDW22-SS772	A 02	1	1	SVOC (20ug/kg solid or 0.2ug/L low H2	12/19/2022	ZH	
BKL0193-BLK1	-	Blank	-	1	1	-	12/19/2022	ZH	
BKL0193-BS1	-	LCS	-	1	1	-	12/19/2022	ZH	
BKL0193-BSD1	-	LCS Dup	-	1	1	-	12/19/2022	ZH	
BKL0193-MS1	-	Matrix Spike	-	1	1	-	12/19/2022	ZH	
BKL0193-MSD1	-	Matrix Spike Dup	-	1	1	-	12/19/2022	ZH	
BKL0193-SRM1	-	Reference	-	1	1	-	12/19/2022	ZH	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I

METHOD BLANK DATA SHEET

EPA 8270E

Blank

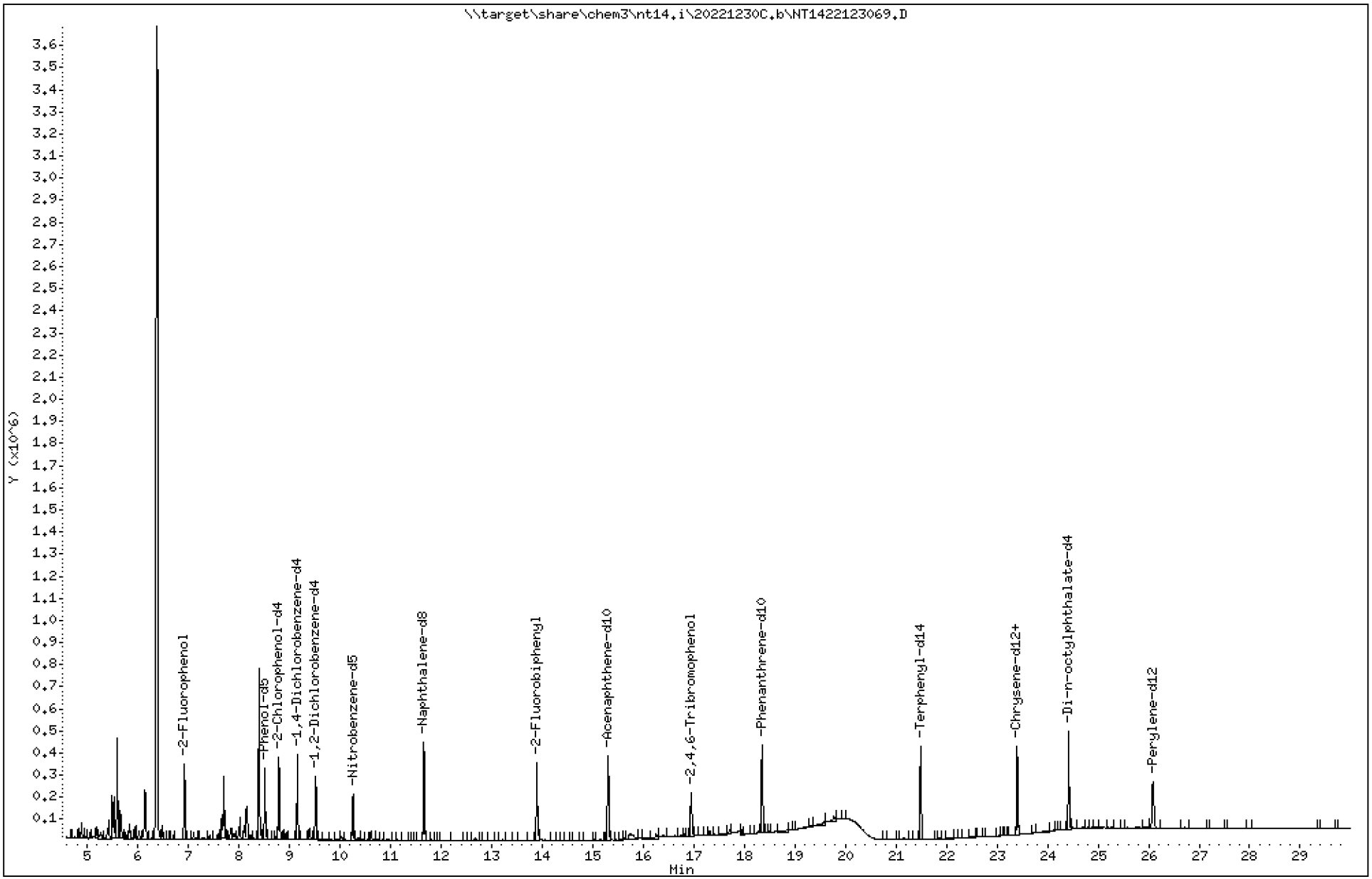
Laboratory:	Analytical Resources, LLC			SDG:	22L0136
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Solid	Laboratory ID:	BKL0193-BLK1	File ID:	NT1422123069.D
Sampled:	N/A	Prepared:	12/09/22 14:39	Analyzed:	01/01/23 01:18
Solids:		Preparation:	EPA 3546 (Microwave)	Initial/Final:	10 g / 1 mL
Batch:	BKL0193	Sequence:	SKL0355	Calibration:	FL00066
Instrument:	NT14	Column:	ZB-5MS	Cleanups:	GPC

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
108-95-2	Phenol	1	20.0	U	4.4	20.0
106-44-5	4-Methylphenol	1	20.0	U	7.4	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	6.4	J	5.5	50.0

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
Phenol-d5	750.00	485	64.6	29 - 120	
2-Chlorophenol-d4	750.00	508	67.7	31 - 120	
1,2-Dichlorobenzene-d4	500.00	335	67.0	32 - 120	
Nitrobenzene-d5	500.00	391	78.3	30 - 120	
2-Fluorobiphenyl	500.00	376	75.3	35 - 120	
p-Terphenyl-d14	500.00	442	88.4	37 - 120	

Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123069.D
Date : 01-JAN-2023 01:18
Client ID:
Sample Info: BKL0193-BLK1

Instrument: nt14.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123069.D

Date : 01-JAN-2023 01:18

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BLK1

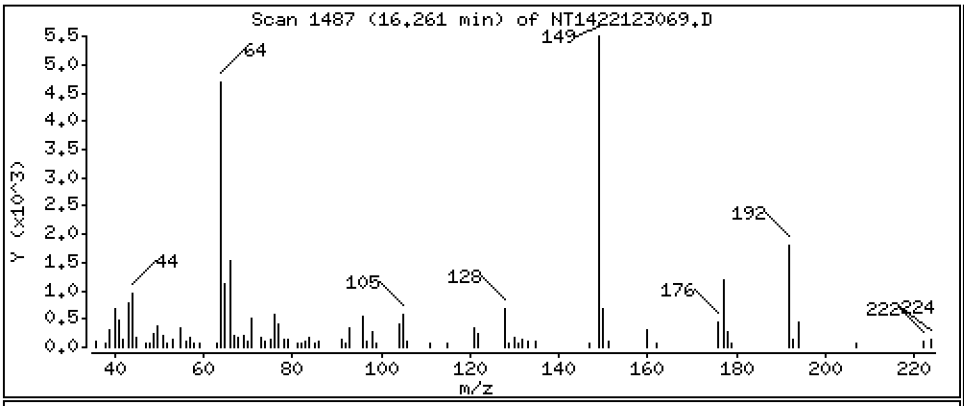
Operator: VTS

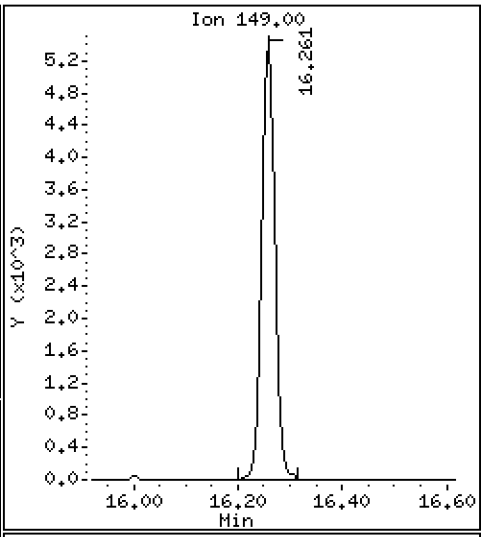
Column phase: ZB-5msi

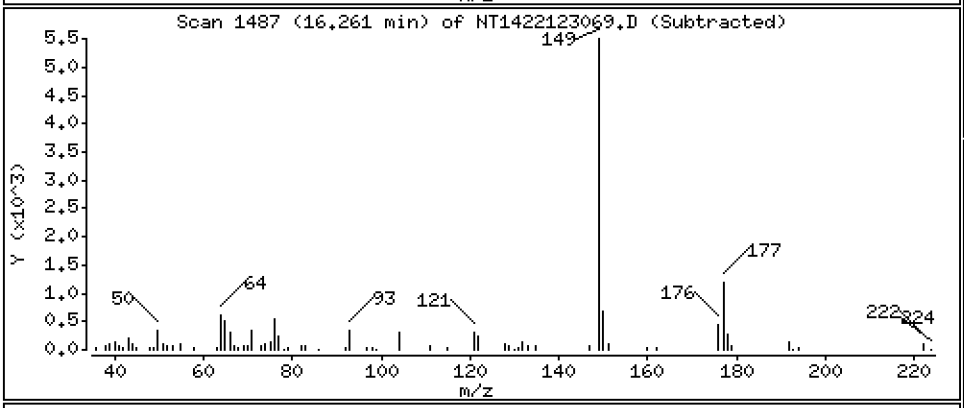
Column diameter: 0.25

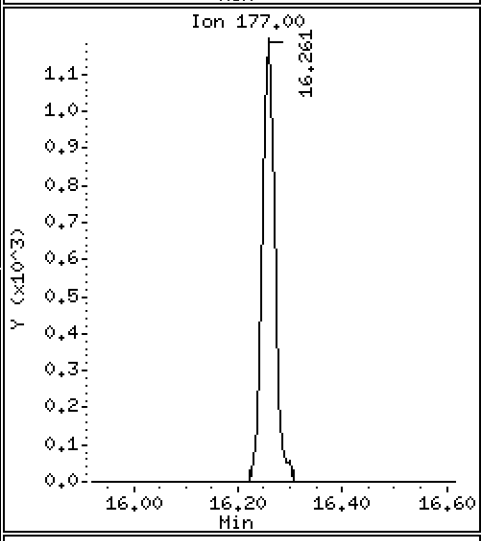
50 Diethylphthalate

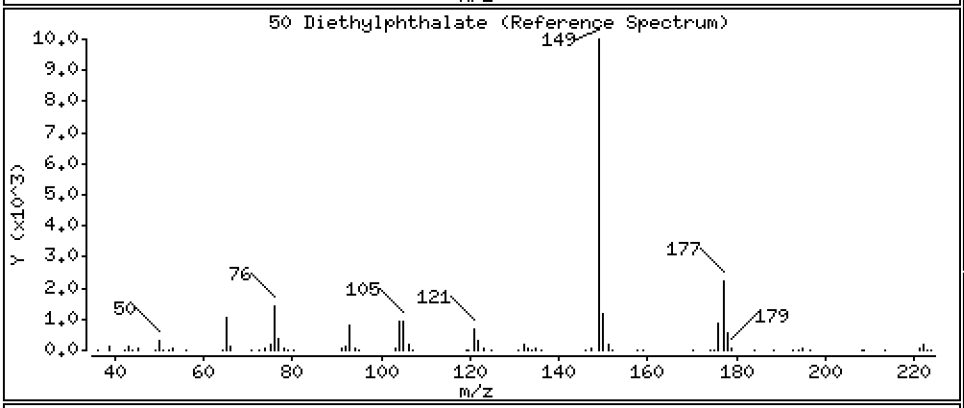
Concentration: 0.1657 ug/mL

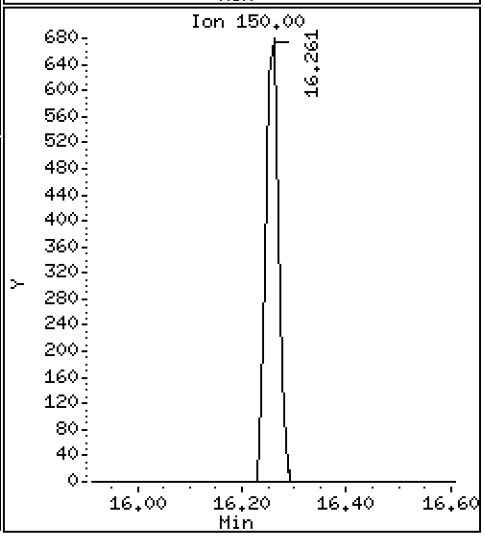


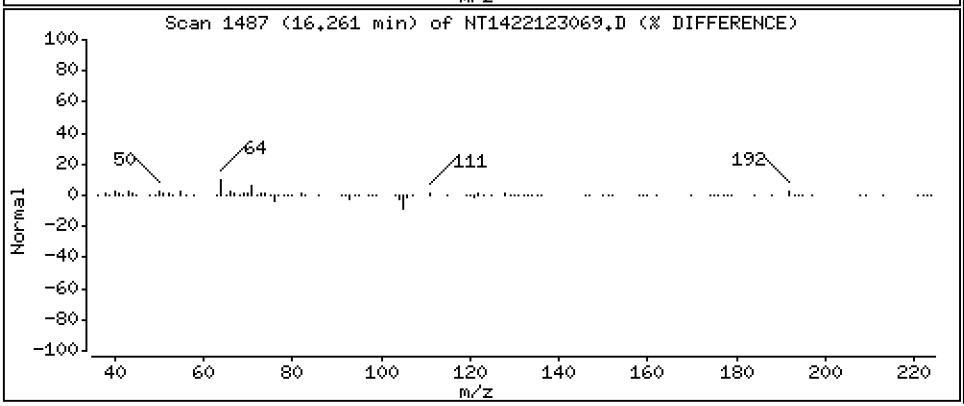












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Date : 01-JAN-2023 01:18

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BLK1

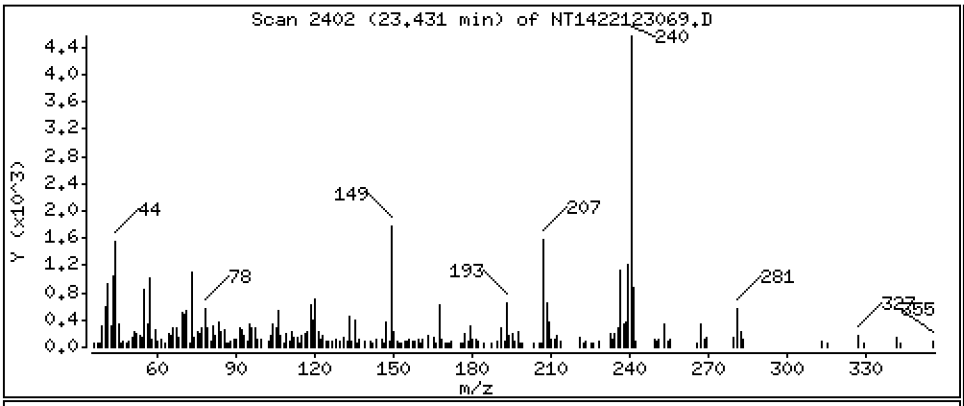
Operator: VTS

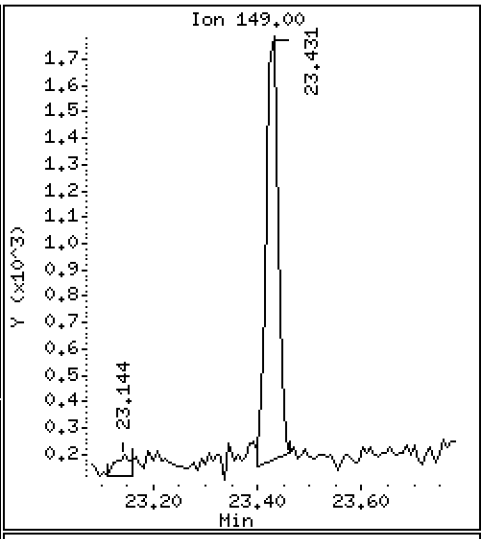
Column phase: ZB-5msi

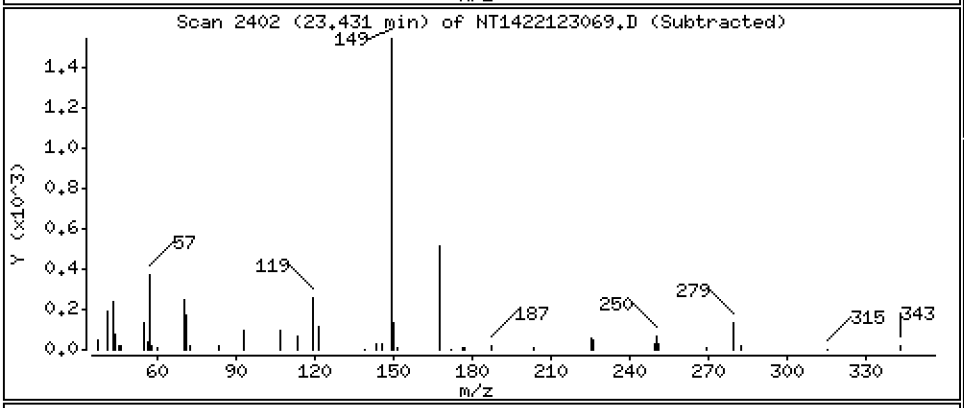
Column diameter: 0.25

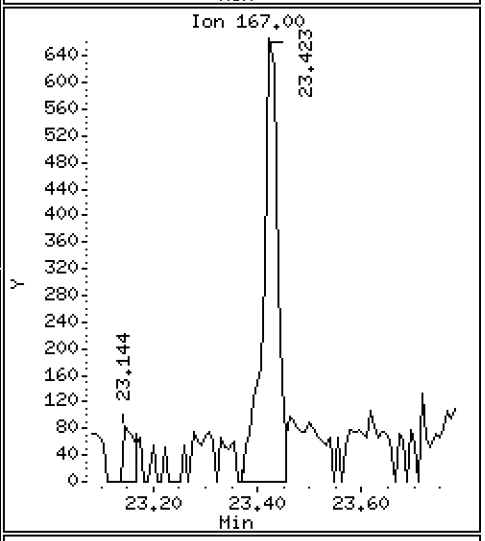
72 bis(2-Ethylhexyl)phthalate

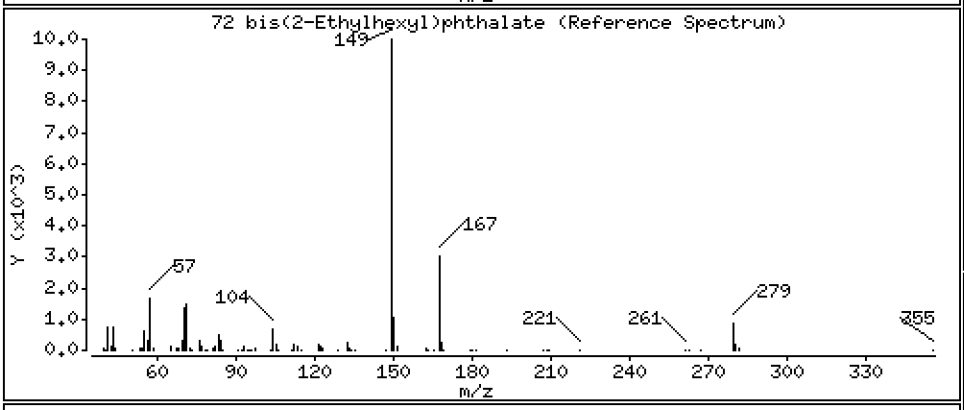
Concentration: 0.06443 ug/mL

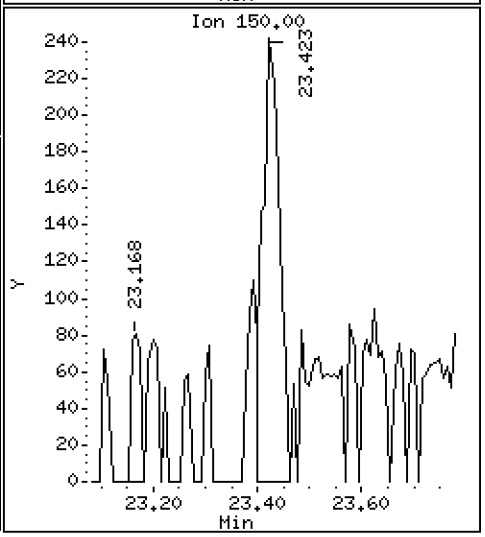


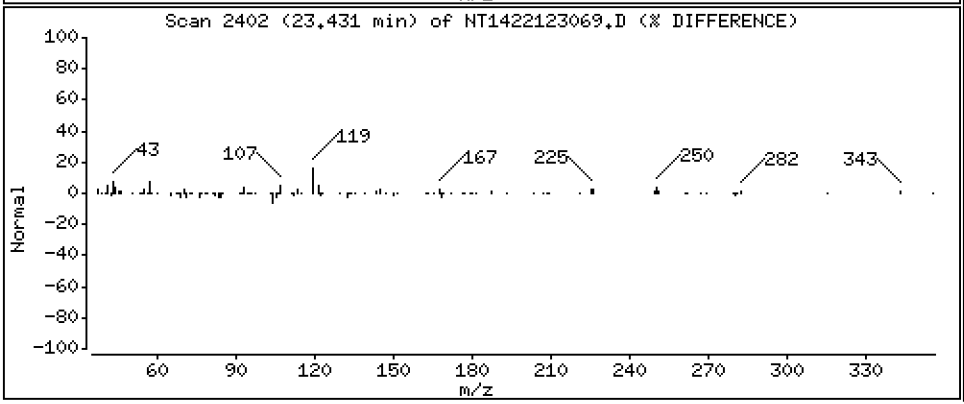












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230C.b\NT1422123069.D
Lab Smp Id: BKL0193-BLK1
Inj Date : 01-JAN-2023 01:18 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : BKL0193-BLK1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 40
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.927	6.919	(0.756)	137979	4.67560	4.676
$	2 Phenol-d5	99	8.519	8.519	(0.930)	176736	4.84612	4.846
	3 Phenol	94	Compound Not Detected.					
$	5 2-Chlorophenol-d4	132	8.797	8.797	(0.960)	155559	5.07886	5.079
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	9.160	9.160	(1.000)	92113	4.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	9.525	9.525	(1.040)	70080	3.34766	3.348
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	Compound Not Detected.					
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	10.262	10.262	(0.880)	108857	3.91418	3.914
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	11.666	11.673	(1.000)	329342	4.00000	
	28 Naphthalene	128	Compound Not Detected.					
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	142	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	13.901	13.901	(0.908)	209255	3.76324	3.763
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	Compound Not Detected.					
	40	Acenaphthylene	152	Compound Not Detected.					
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	15.302	15.310	(1.000)	165382	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	Compound Not Detected.					
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	Compound Not Detected.					
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	16.260	16.268	(1.063)	10503	0.16568	0.1657
	49	Fluorene	166	Compound Not Detected.					
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55	2,4,6-Tribromophenol	330	16.955	16.955	(1.108)	34015	4.29438	4.294
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	18.353	18.361	(1.000)	271589	4.00000	
	60	Phenanthrene	178	Compound Not Detected.					
	61	Anthracene	178	Compound Not Detected.					
	62	Carbazole	167	Compound Not Detected.					
	63	Di-n-butylphthalate	149	Compound Not Detected.					
	64	Fluoranthene	202	Compound Not Detected.					
	65	Pyrene	202	Compound Not Detected.					
$	66	Terphenyl-d14	244	21.487	21.495	(0.918)	216228	4.42201	4.422
	67	Butylbenzylphthalate	149	Compound Not Detected.					
	68	Benzo(a)anthracene	228	Compound Not Detected.					
*	69	Chrysene-d12	240	23.399	23.399	(1.000)	203703	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	Compound Not Detected.					
	72	bis(2-Ethylhexyl)phthalate	149	23.430	23.430	(0.959)	2442	0.06443	0.06443
*	134	Di-n-octylphthalate-d4	153	24.421	24.421	(1.000)	341255	4.00000	
	73	Di-n-octylphthalate	149	Compound Not Detected.					
	74	Benzo(b)fluoranthene	252	Compound Not Detected.					
	75	Benzo(k)fluoranthene	252	Compound Not Detected.					
	76	Benzo(a)pyrene	252	Compound Not Detected.					
*	77	Perylene-d12	264	26.086	26.086	(1.000)	177895	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80	Benzo(g,h,i)perylene	276	Compound Not Detected.					
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	Compound Not Detected.					
	105	1-methylnaphthalene	142	Compound Not Detected.					
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123069.D
Lab Smp Id: BKL0193-BLK1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Misc Info:

Calibration Date: 31-DEC-2022
Calibration Time: 23:30
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138755	69378	277510	92113	-33.61
27 Naphthalene-d8	501723	250862	1003446	329342	-34.36
42 Acenaphthene-d10	275234	137617	550468	165382	-39.91
59 Phenanthrene-d10	440085	220043	880170	271589	-38.29
69 Chrysene-d12	384795	192398	769590	203703	-47.06
134 Di-n-octylphthala	674530	337265	1349060	341255	-49.41
77 Perylene-d12	336665	168333	673330	177895	-47.16

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	-0.07
42 Acenaphthene-d10	15.31	14.81	15.81	15.30	-0.05
59 Phenanthrene-d10	18.36	17.86	18.86	18.35	-0.04
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.42	0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123069.D

Lab ID: BKL0193-BLK1
nt14.i, 20221230C.b\ABN.m,   01-JAN-2023 01:18

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1422123066.D

On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

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

LCS / LCS DUPLICATE RECOVERY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	01/01/23 01:53
Batch:	BKL0193	Laboratory ID:	BKL0193-BS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS
Initial/Final:	10 g / 1 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Phenol	500	318		63.5	34 - 120
4-Methylphenol	500	311		62.3	29 - 120
bis(2-Ethylhexyl)phthalate	500	489		97.7	34 - 130

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	500	336		67.2	5.54	30	34 - 120
4-Methylphenol	500	334		66.8	6.96	30	29 - 120
bis(2-Ethylhexyl)phthalate	500	554		111	12.6	30	34 - 130

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123070.D

Date : 01-JAN-2023 01:53

Client ID:

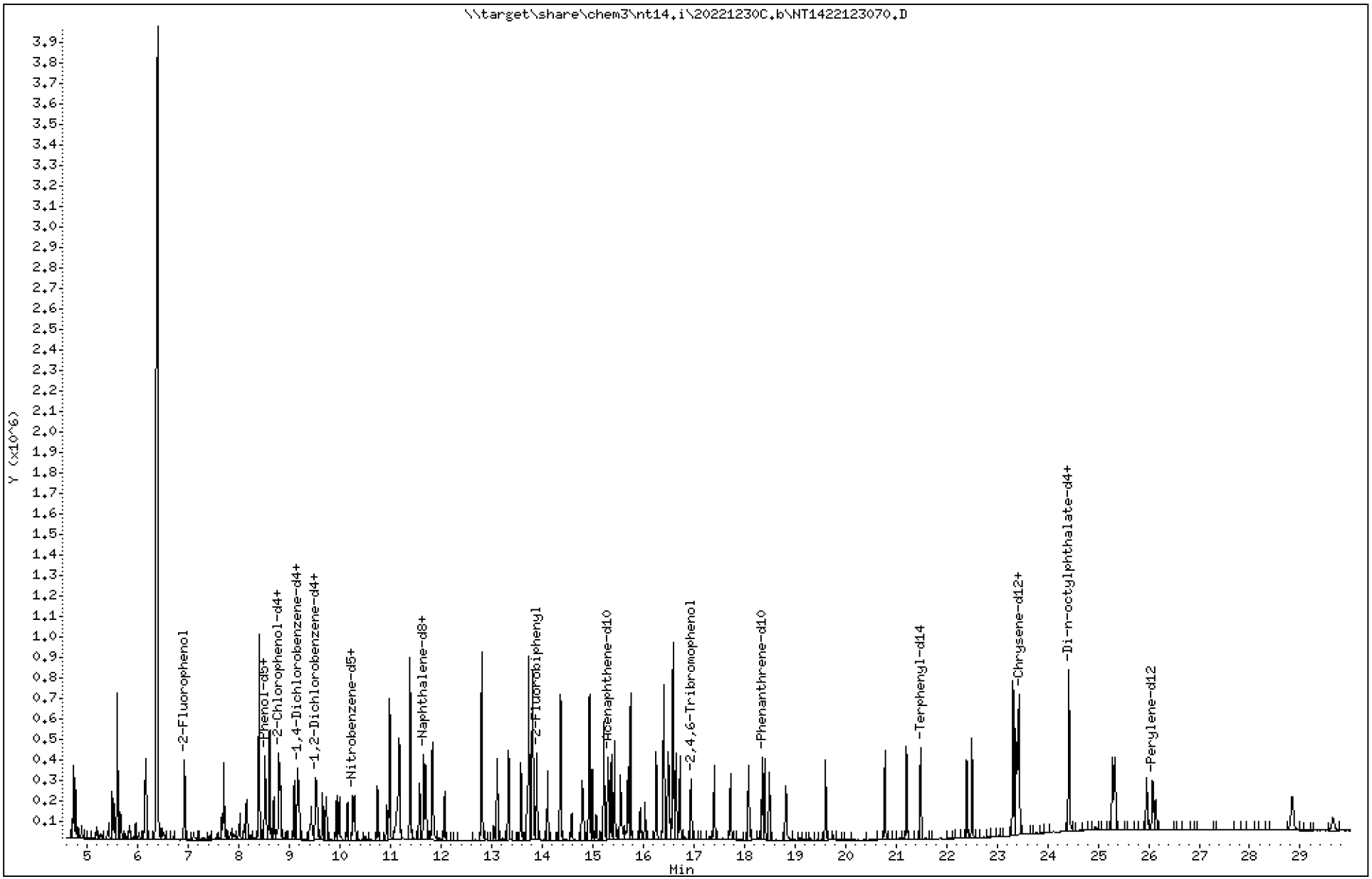
Instrument: nt14.i

Sample Info: BKL0193-BS1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

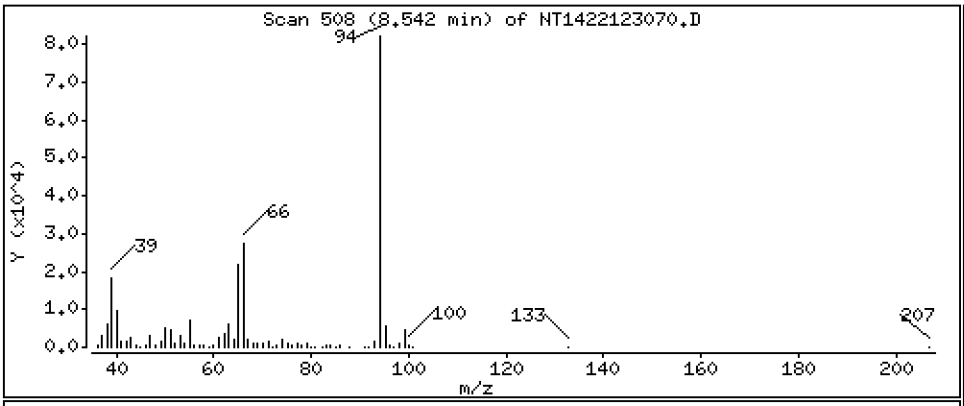
Operator: VTS

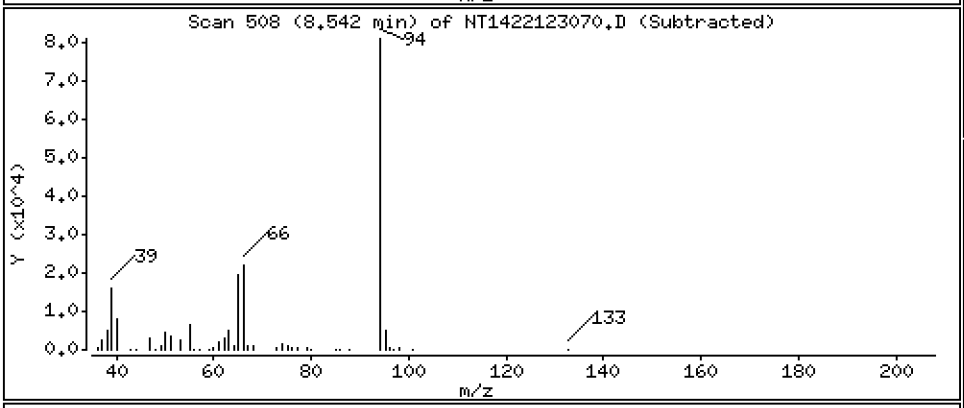
Column phase: ZB-5msi

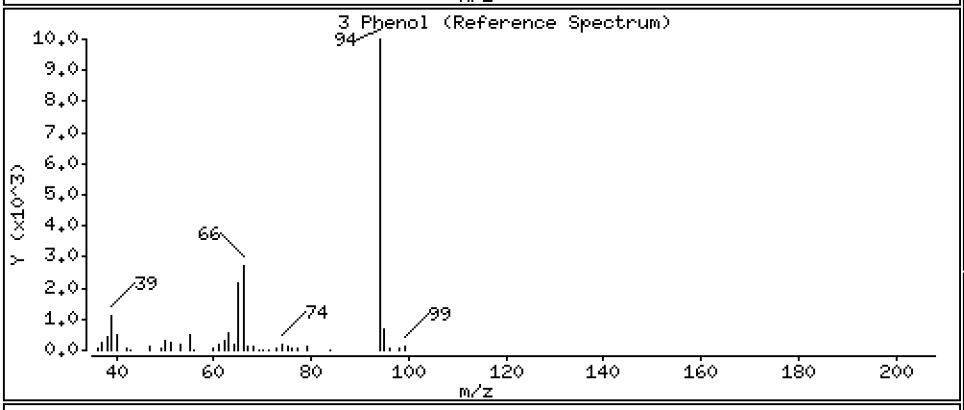
Column diameter: 0.25

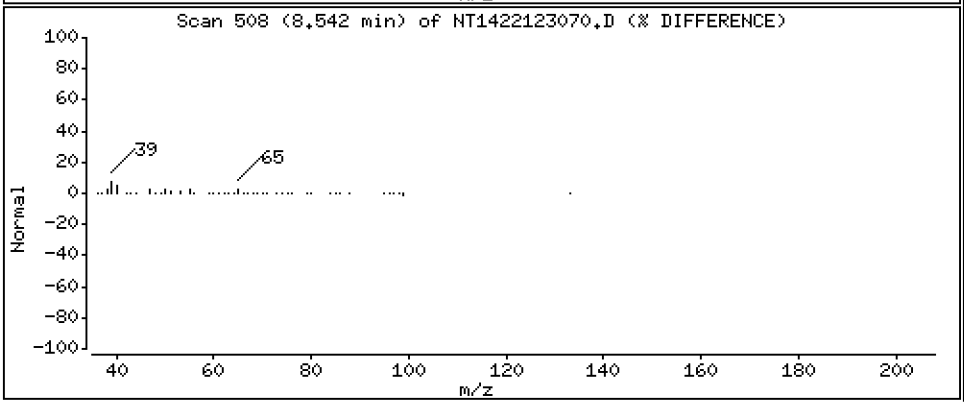
3 Phenol

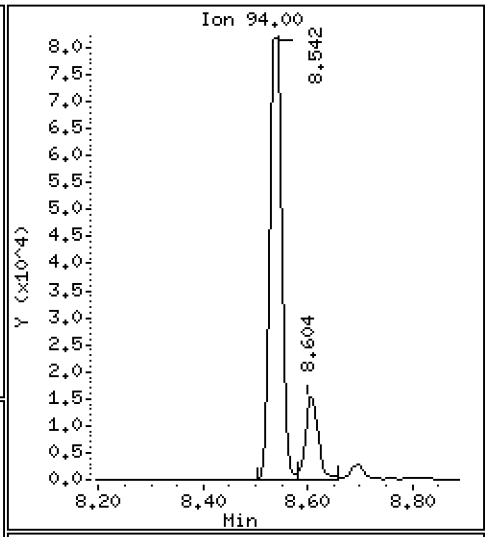
Concentration: 3.177 ug/mL

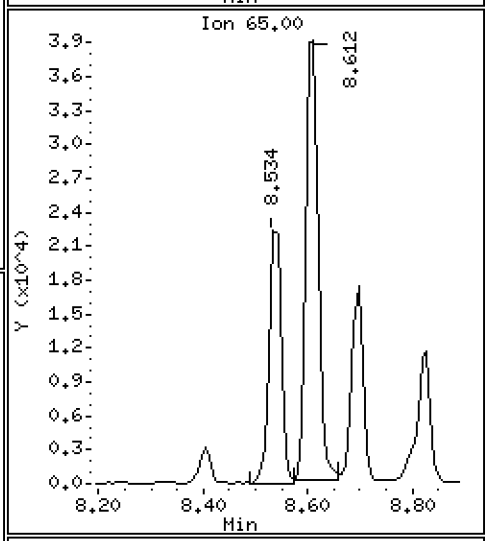


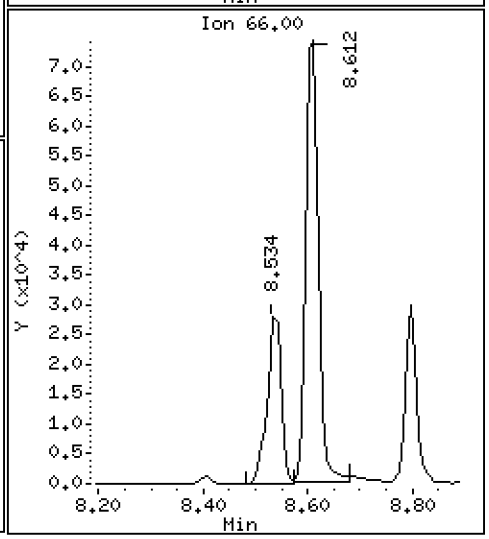












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

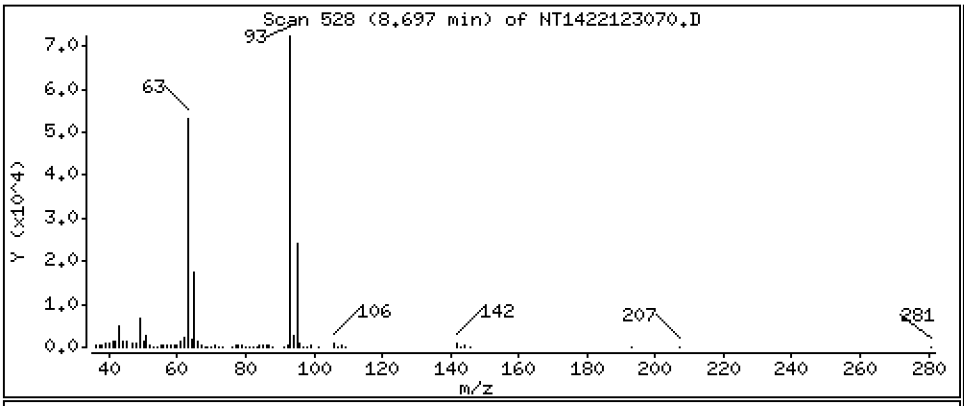
Operator: VTS

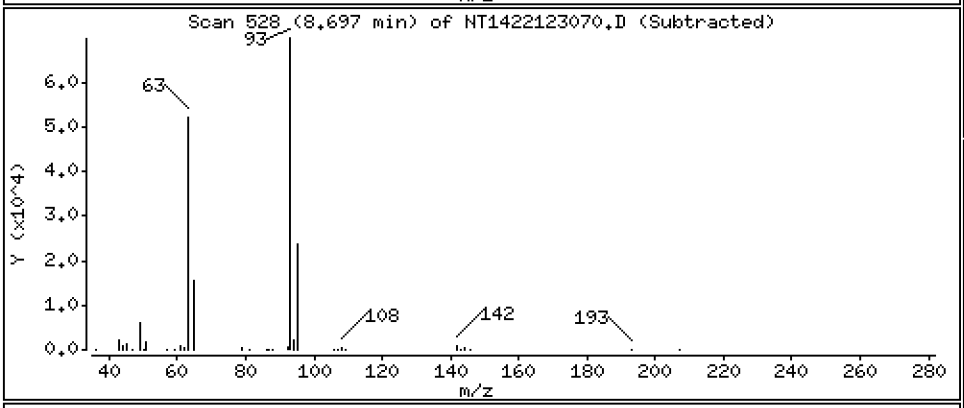
Column phase: ZB-5msi

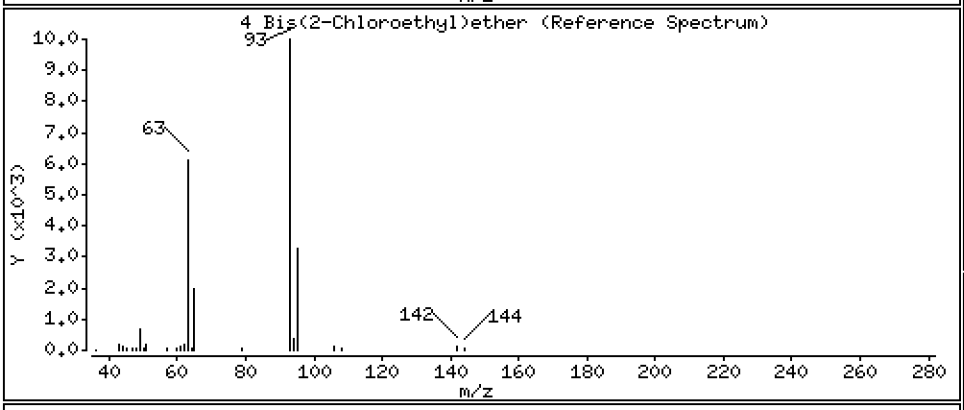
Column diameter: 0.25

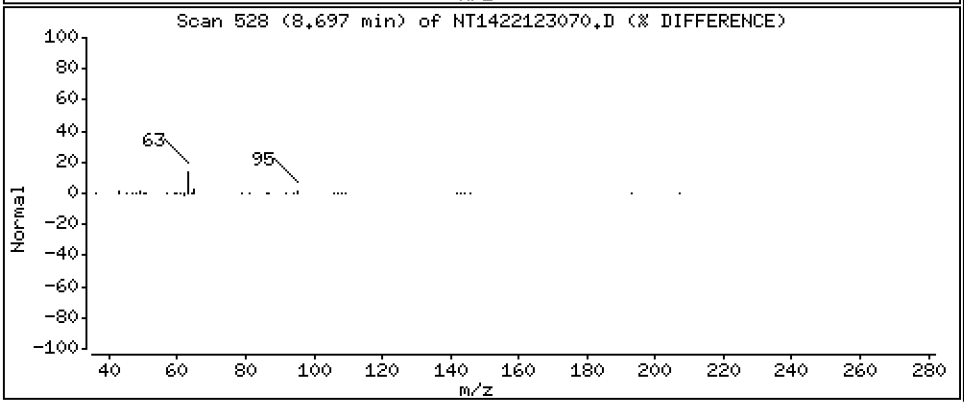
4 Bis(2-Chloroethyl)ether

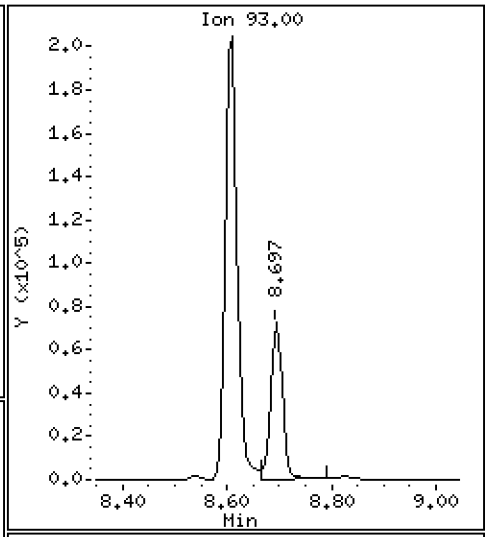
Concentration: 3.980 ug/mL

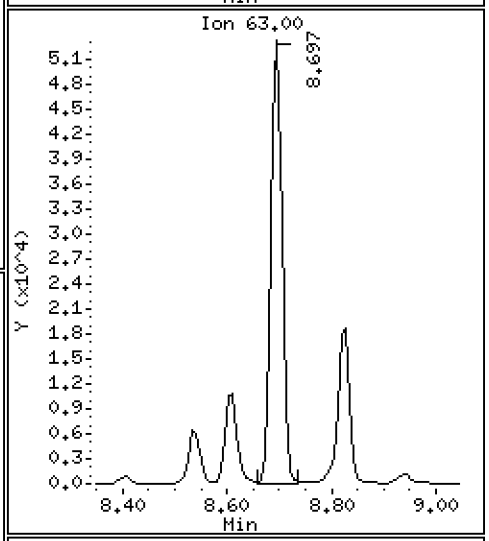


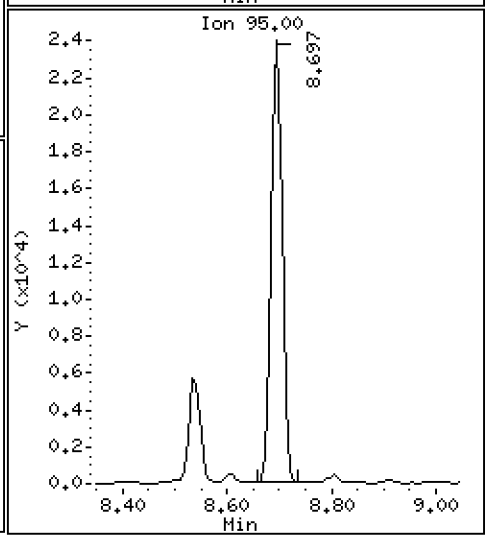












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123070.D

Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

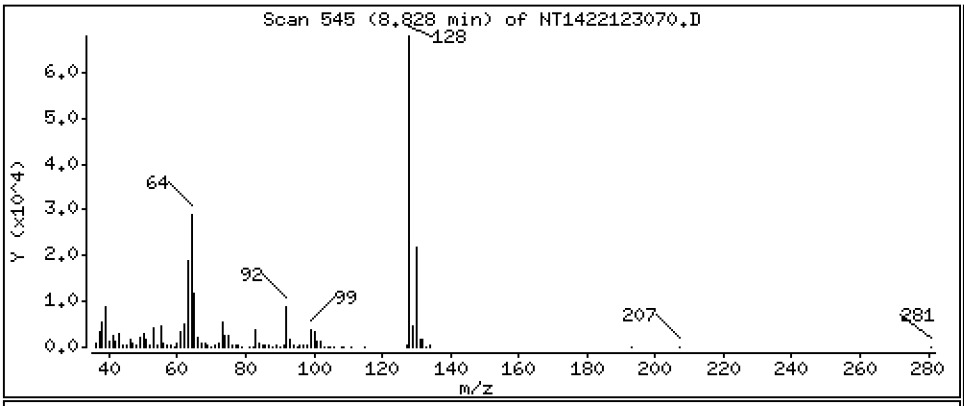
Operator: VTS

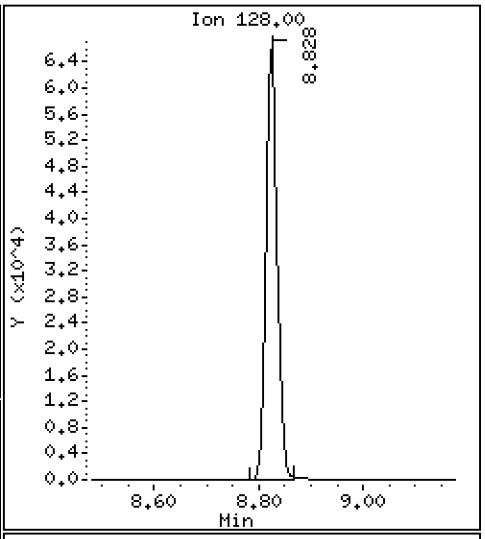
Column phase: ZB-5msi

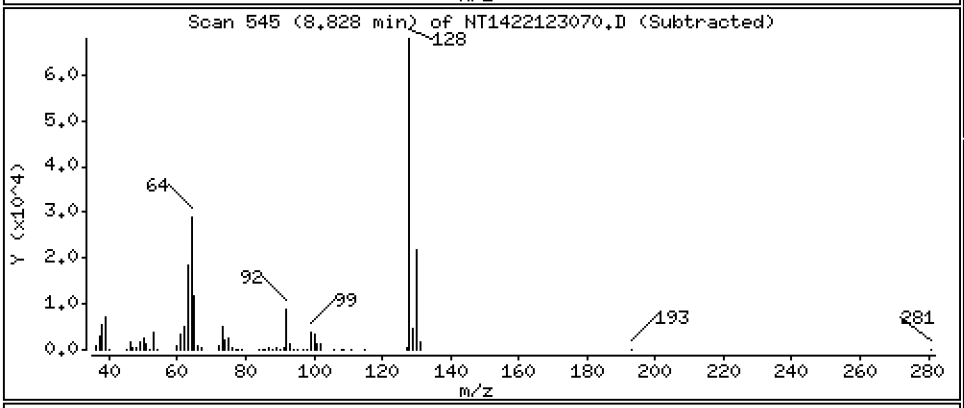
Column diameter: 0.25

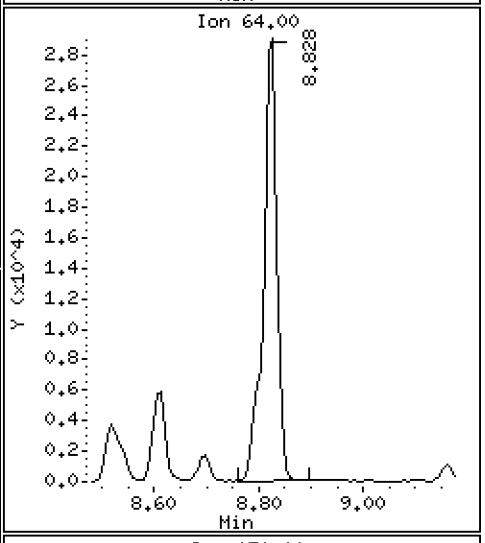
6 2-Chlorophenol

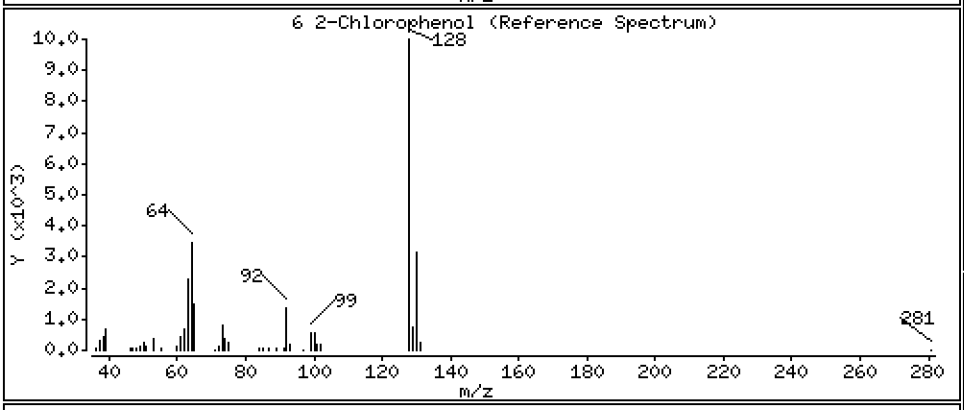
Concentration: 3.187 ug/mL

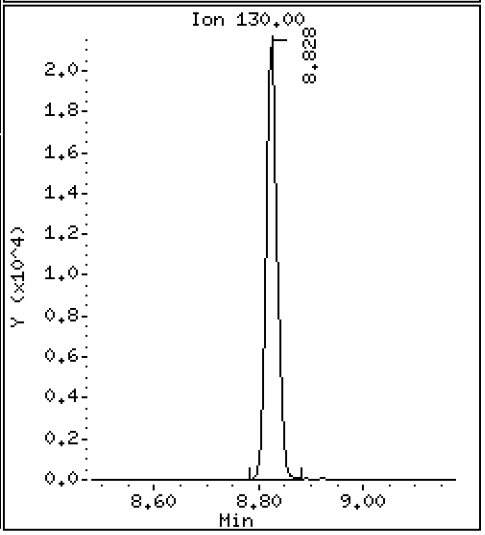


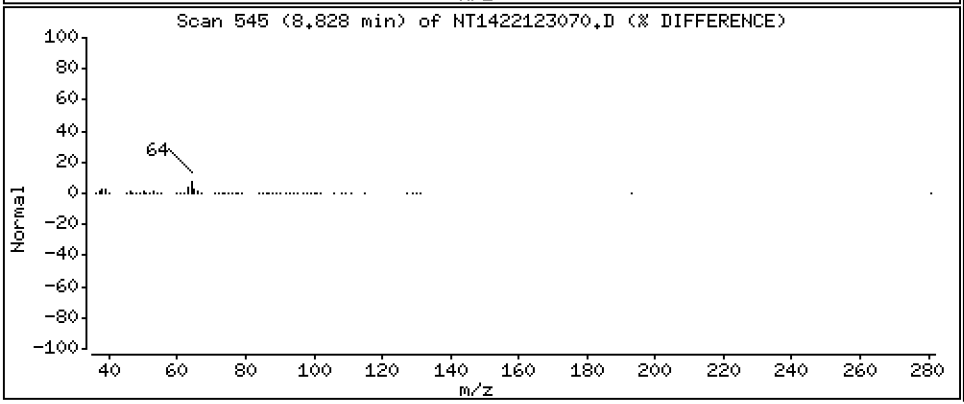












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

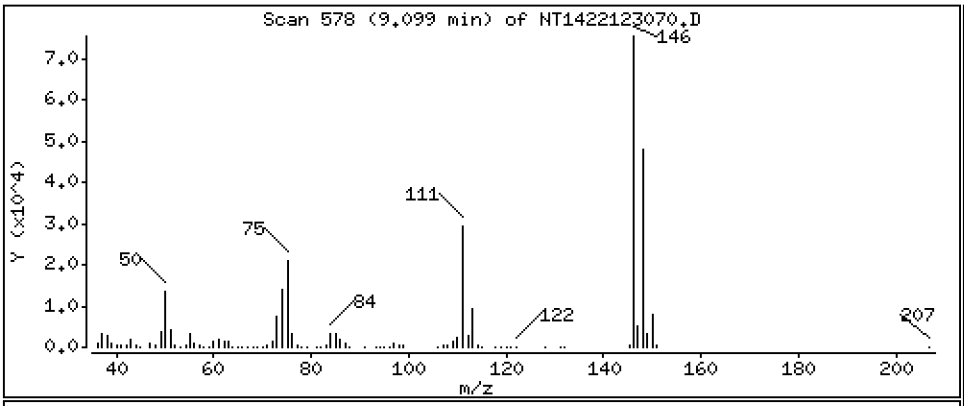
Operator: VTS

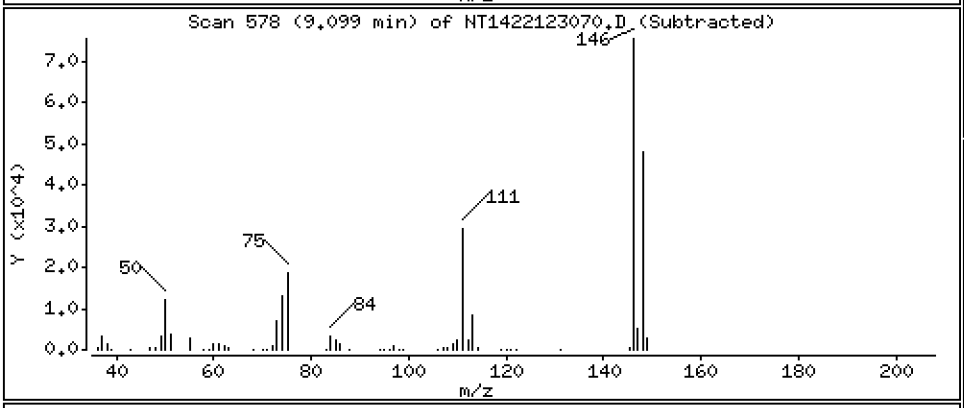
Column phase: ZB-5msi

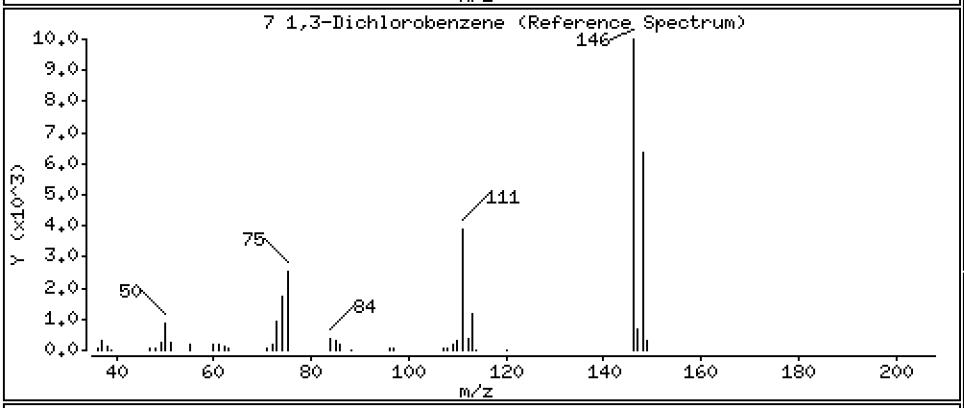
Column diameter: 0.25

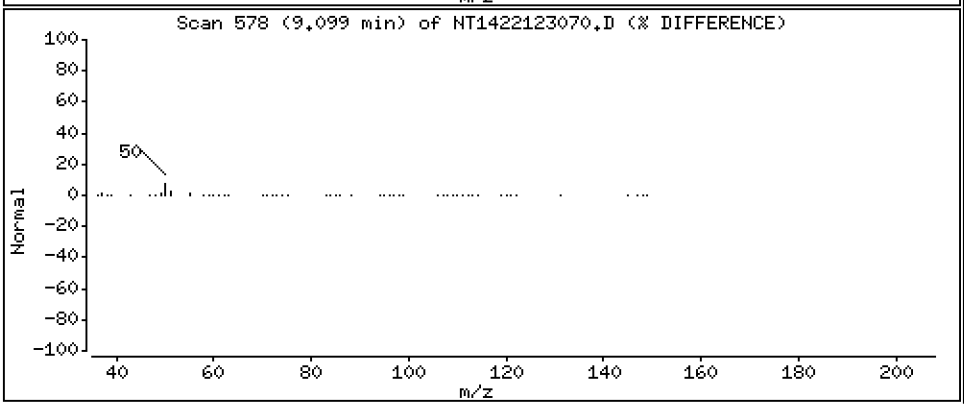
7 1,3-Dichlorobenzene

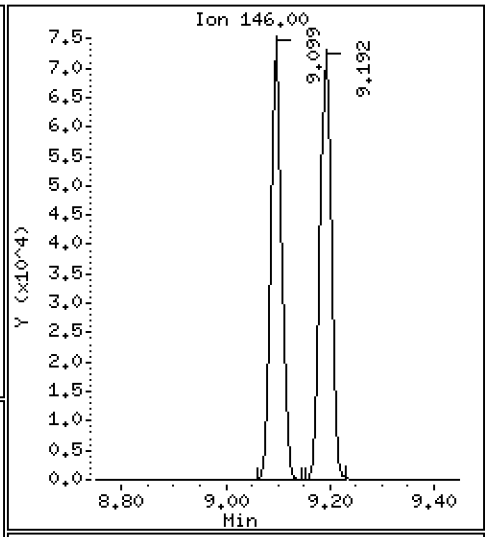
Concentration: 3.236 ug/mL

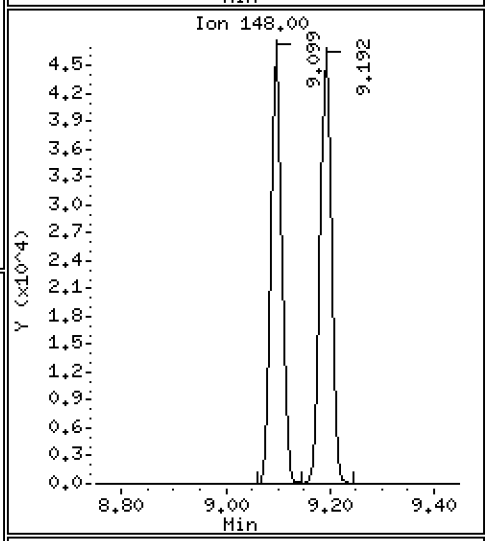


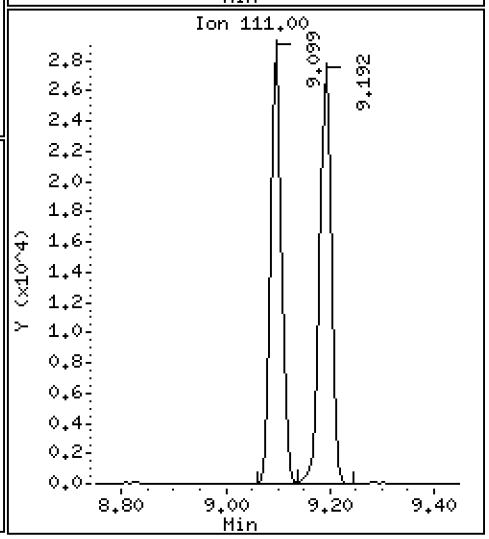












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

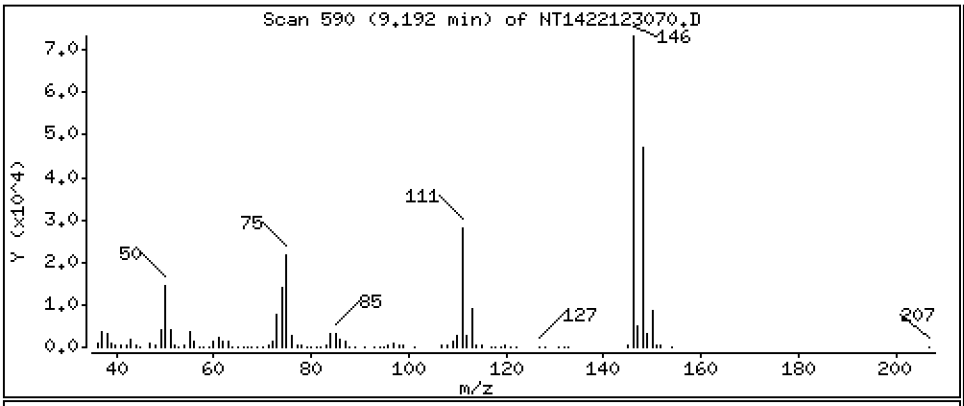
Operator: VTS

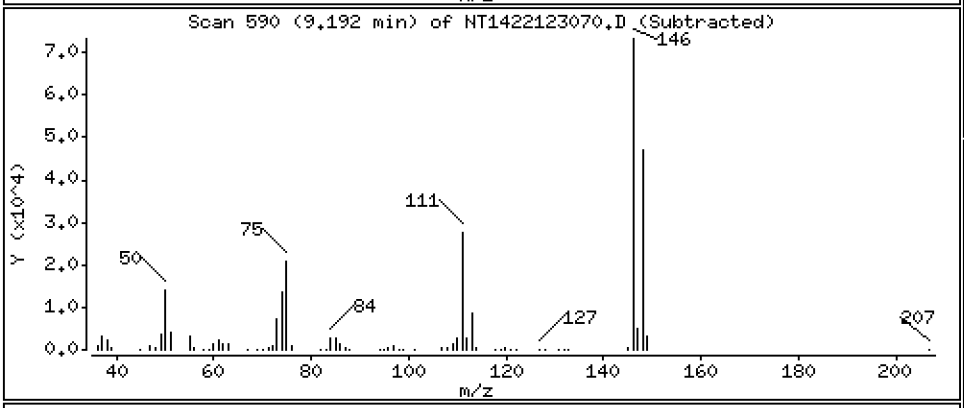
Column phase: ZB-5msi

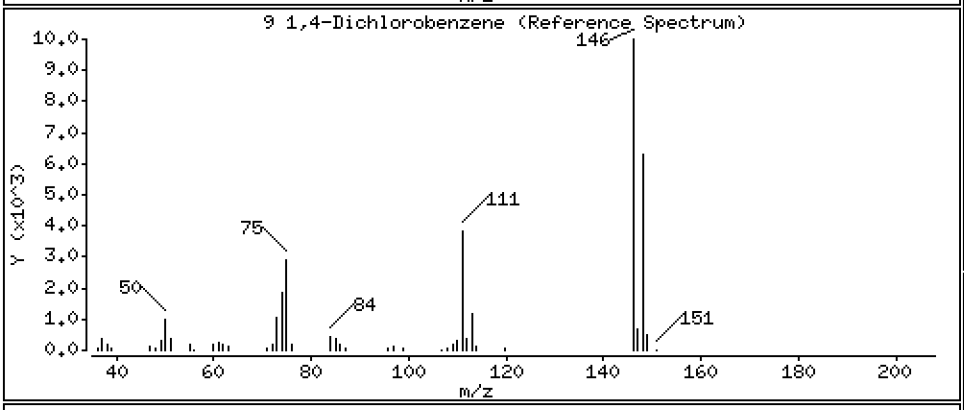
Column diameter: 0.25

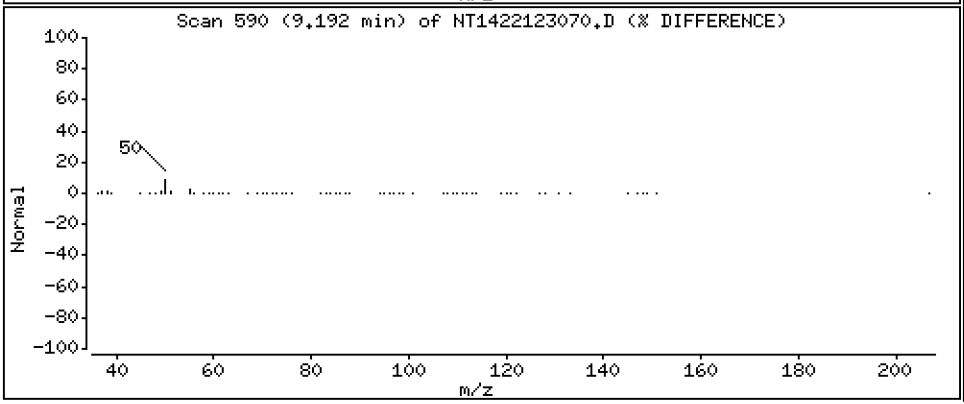
9 1,4-Dichlorobenzene

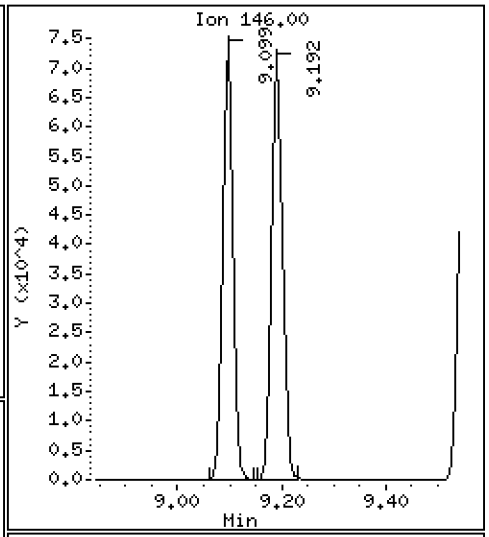
Concentration: 3.330 ug/mL

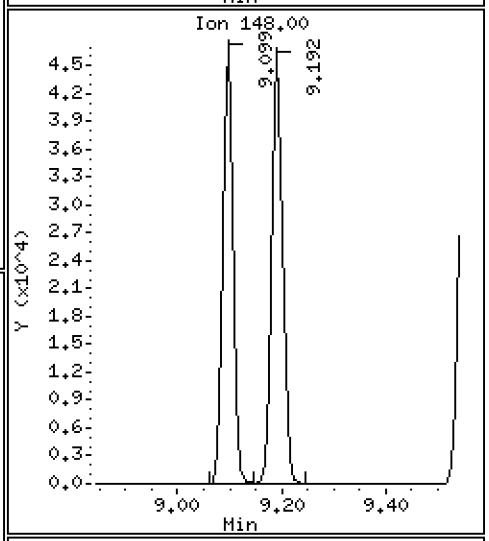


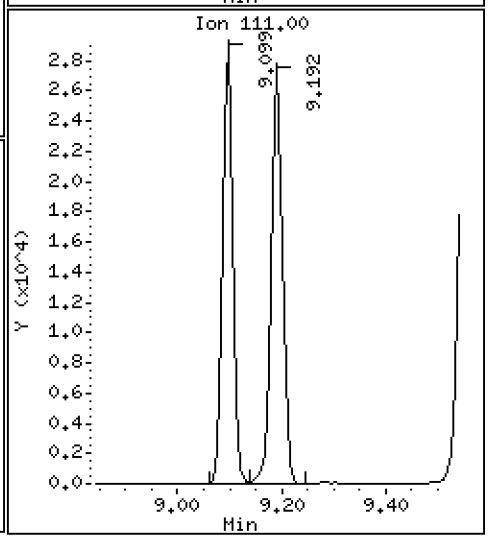












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

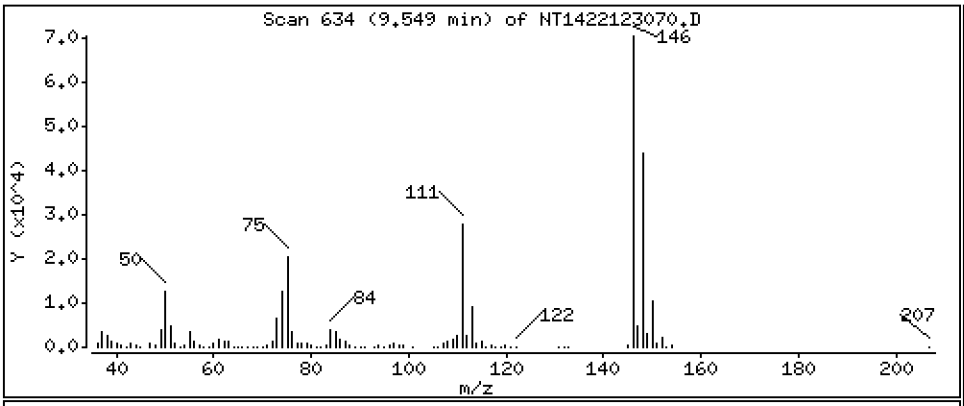
Operator: VTS

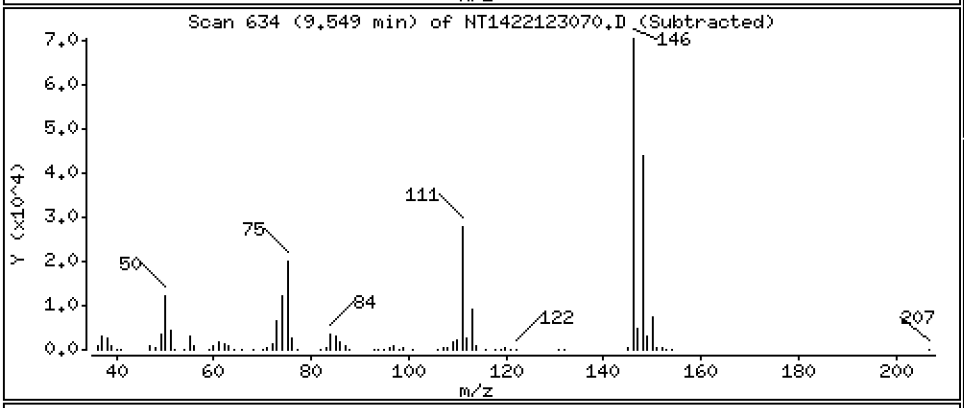
Column phase: ZB-5msi

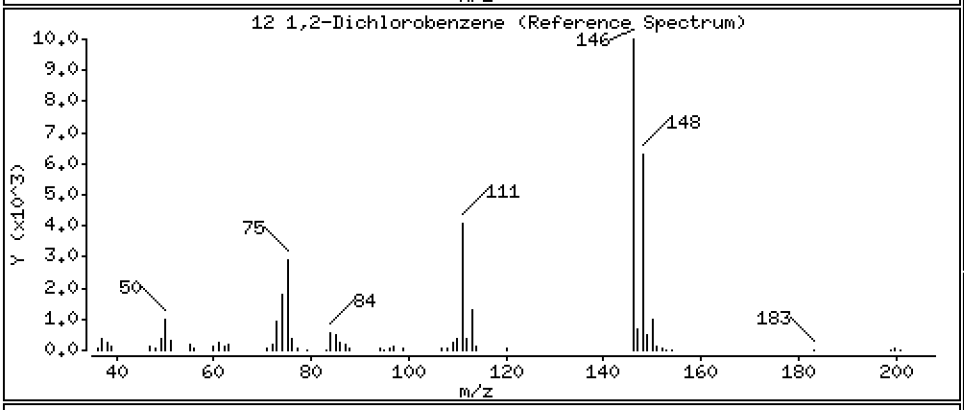
Column diameter: 0.25

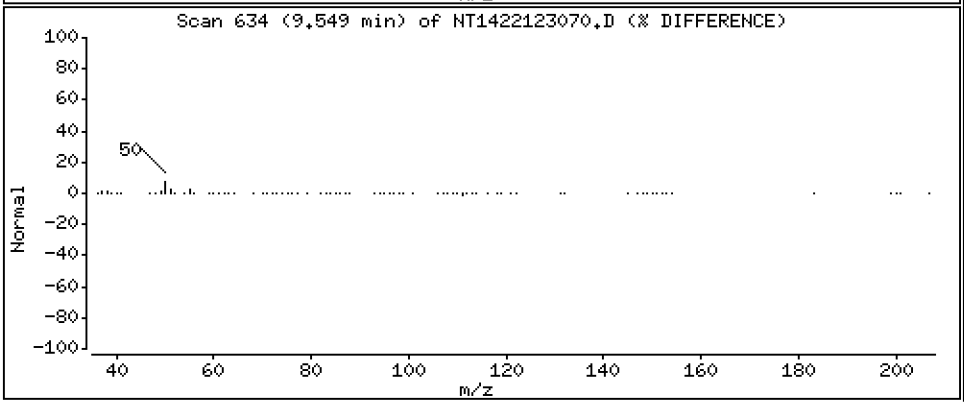
12 1,2-Dichlorobenzene

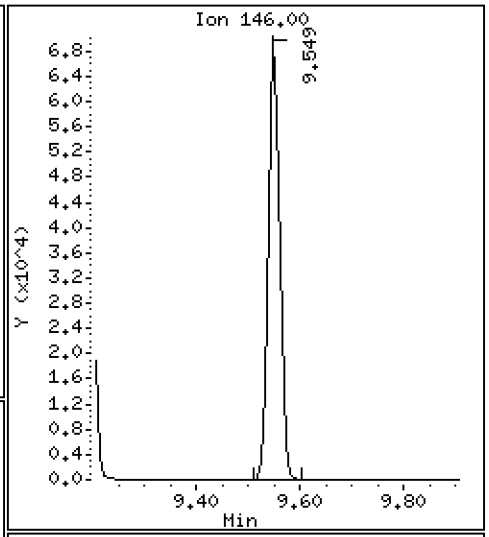
Concentration: 3.351 ug/mL

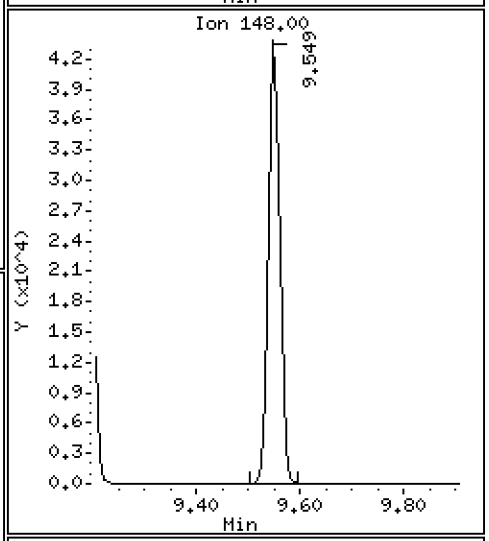


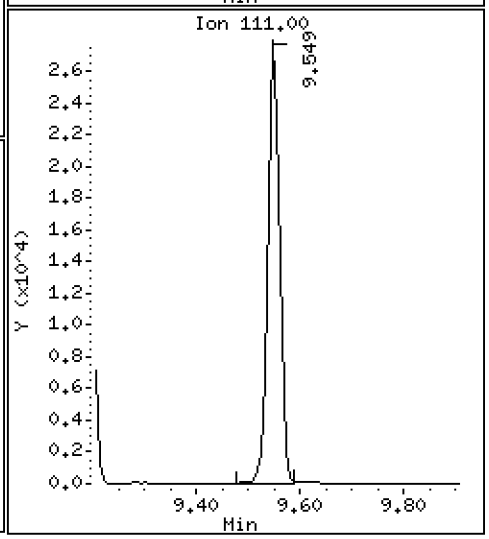












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

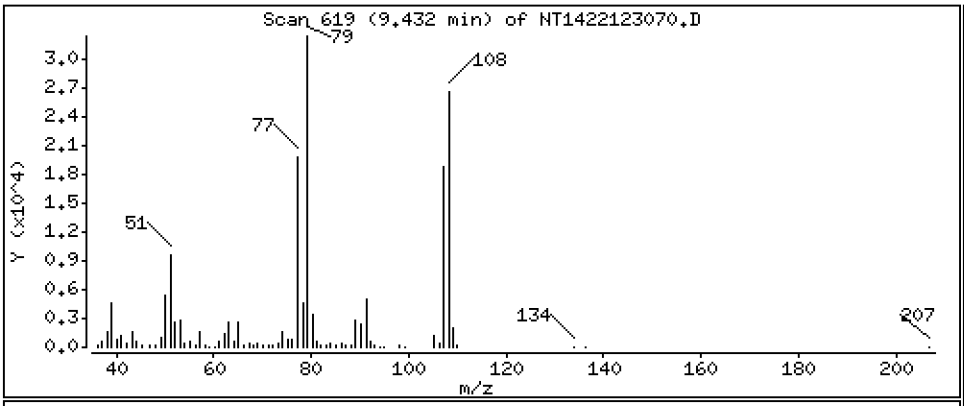
Operator: VTS

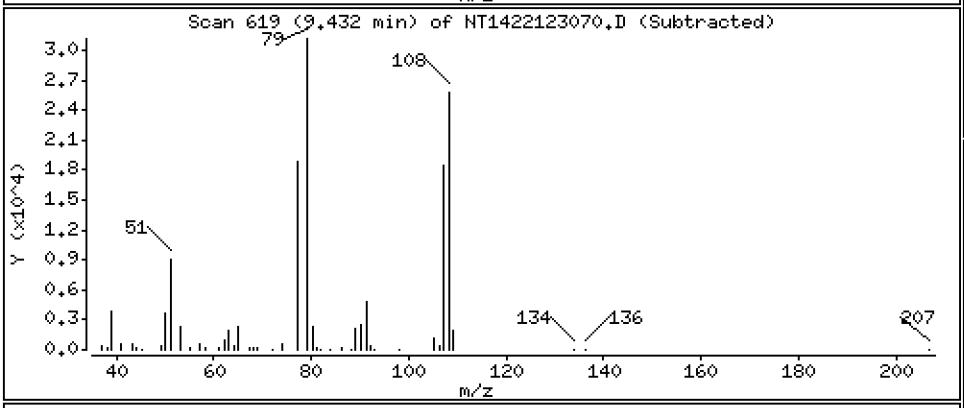
Column phase: ZB-5msi

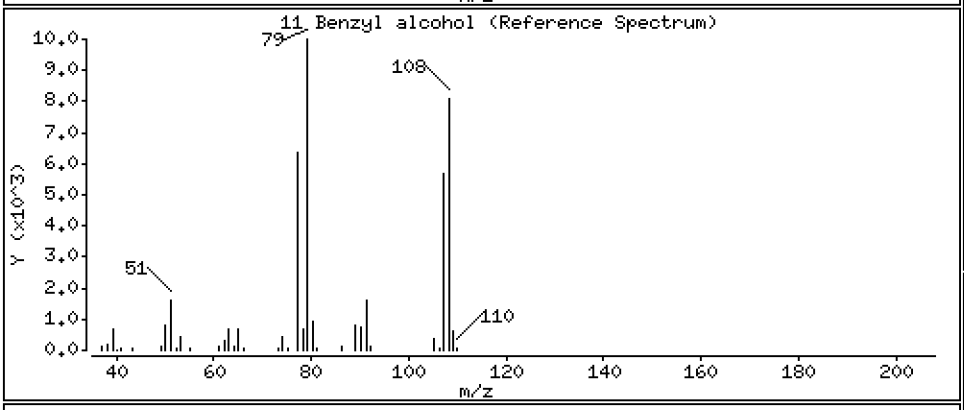
Column diameter: 0.25

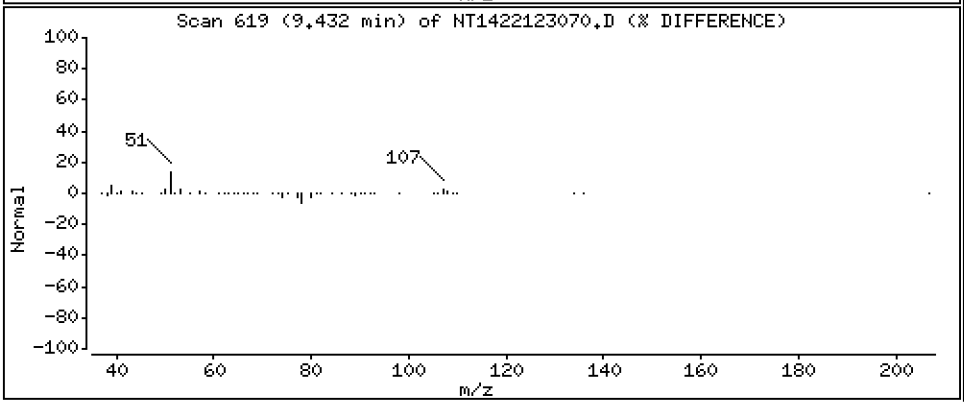
11 Benzyl alcohol

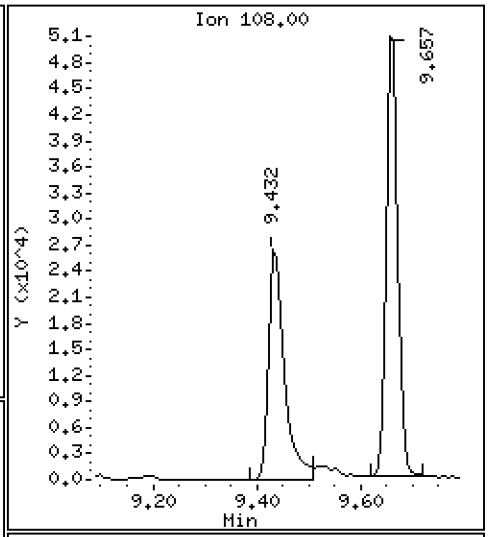
Concentration: 3.248 ug/mL

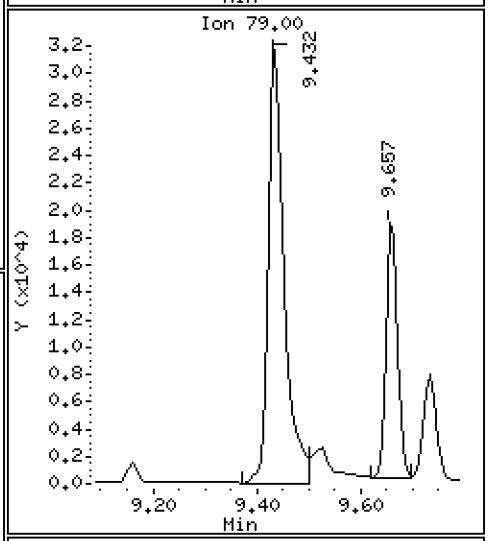


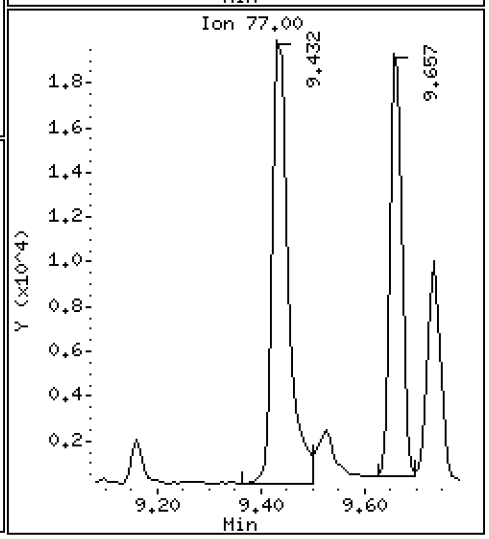












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

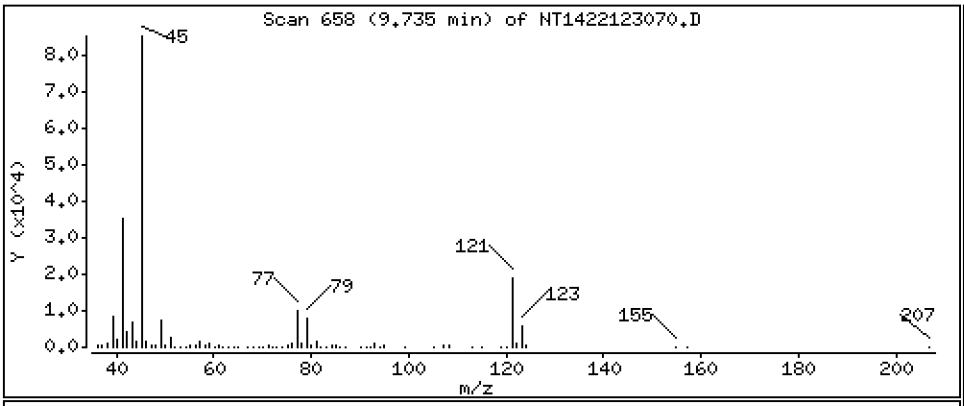
Operator: VTS

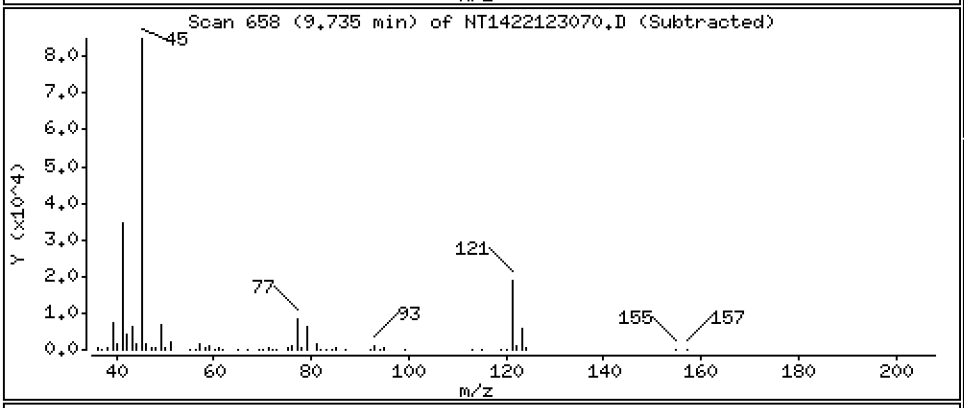
Column phase: ZB-5msi

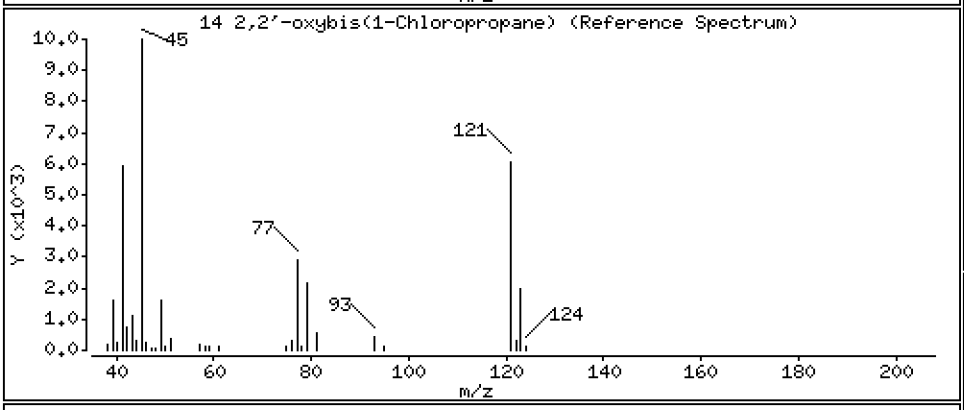
Column diameter: 0.25

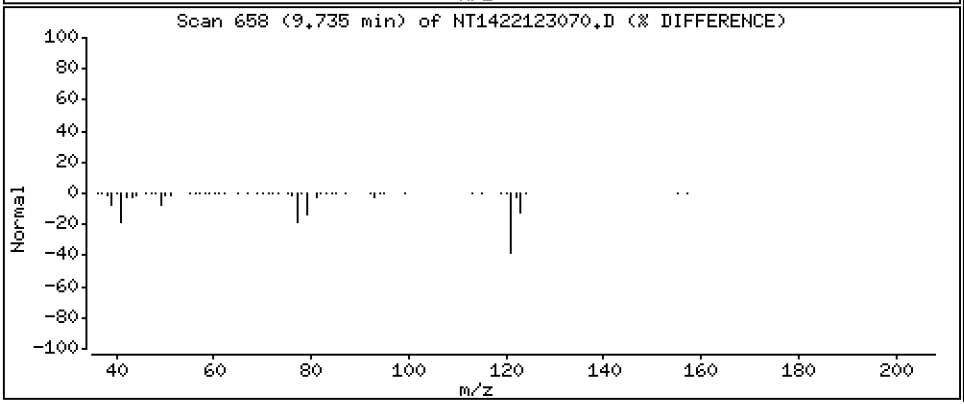
14 2,2'-oxybis(1-Chloropropane)

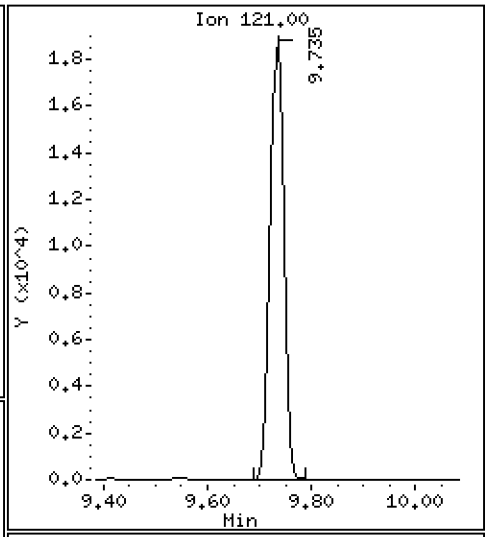
Concentration: 3.779 ug/mL

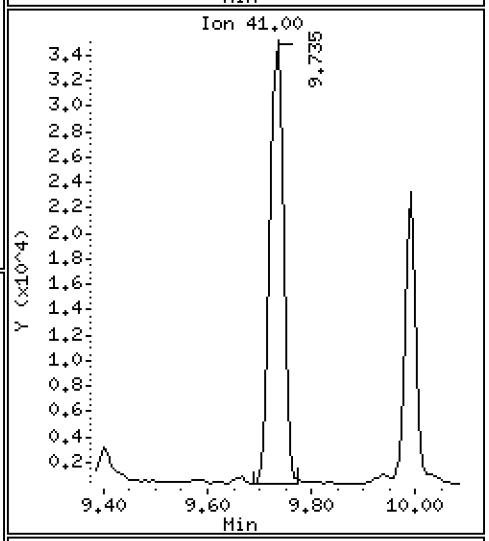


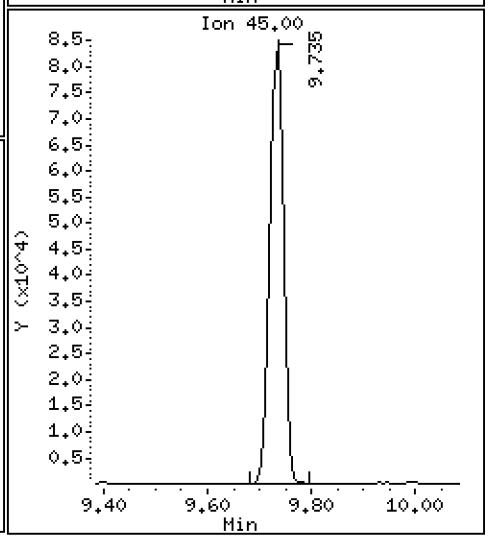












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

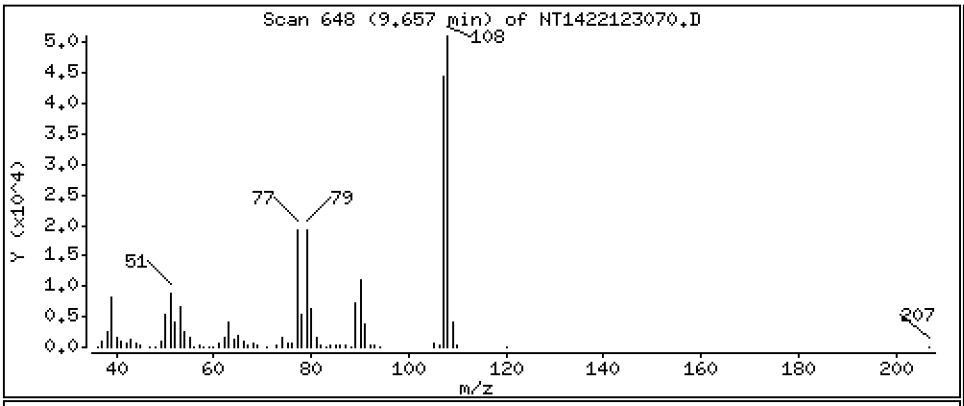
Operator: VTS

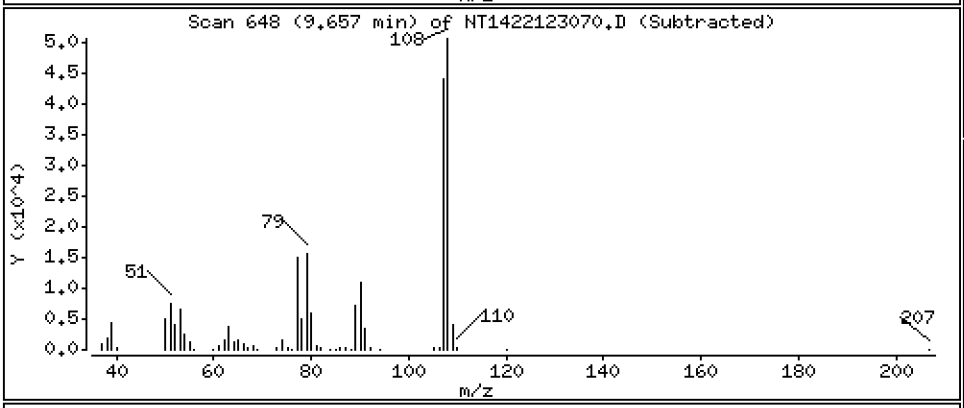
Column phase: ZB-5msi

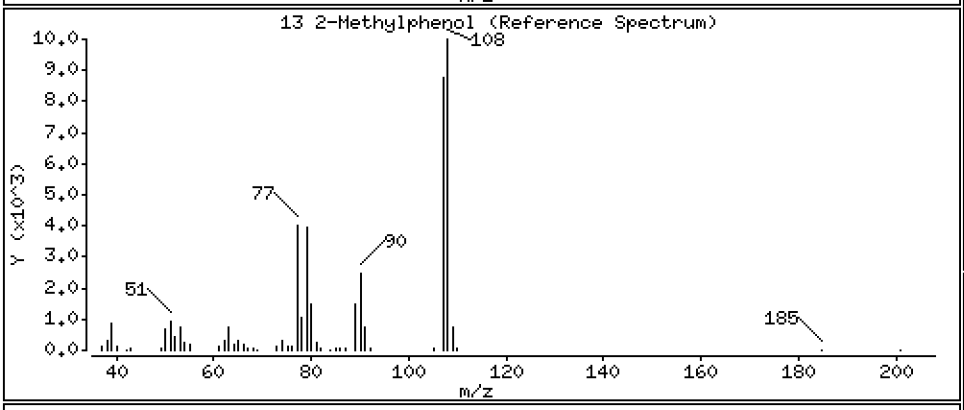
Column diameter: 0.25

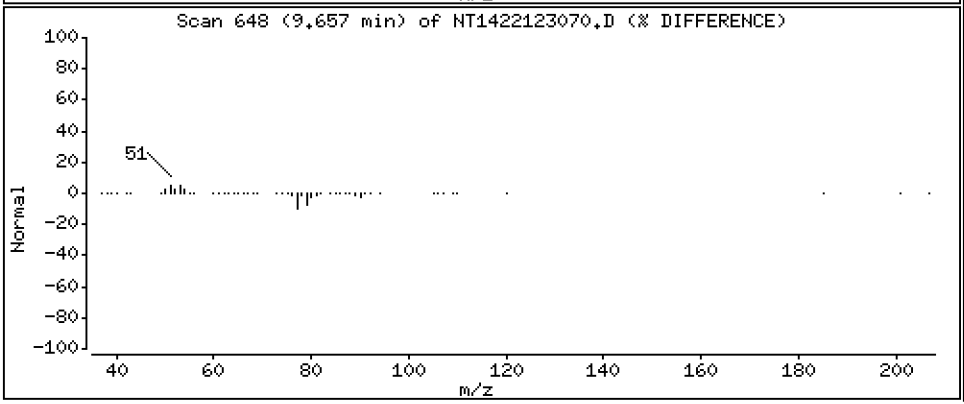
13 2-Methylphenol

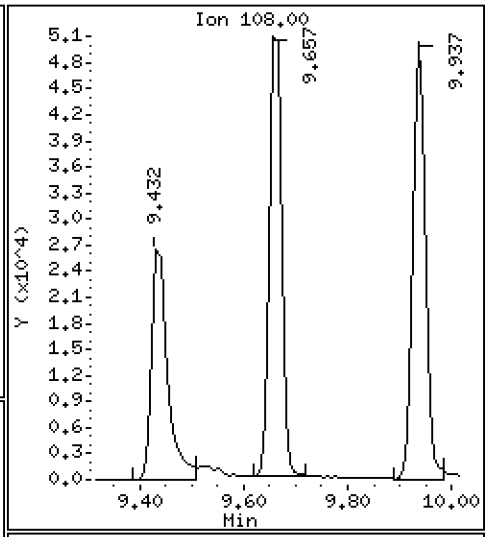
Concentration: 2.836 ug/mL

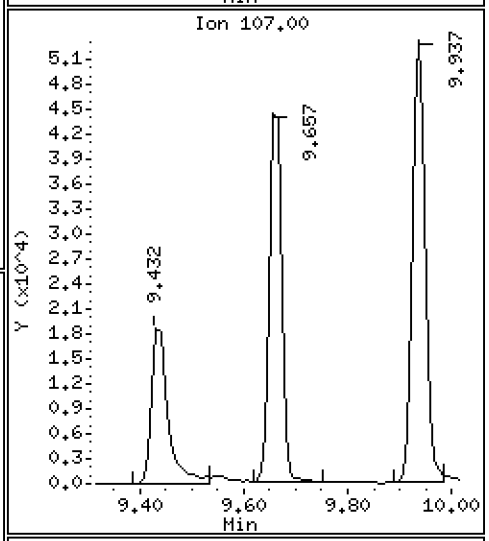


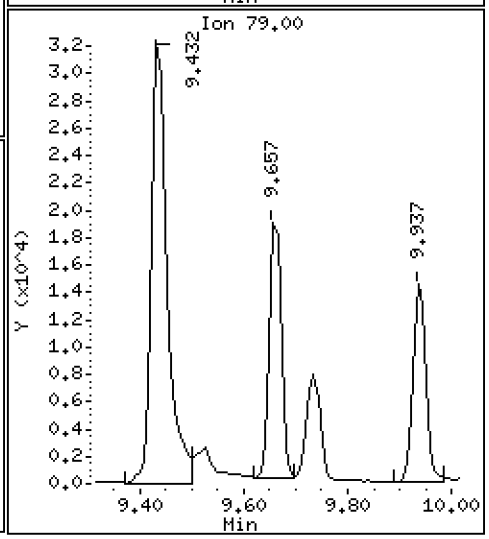












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

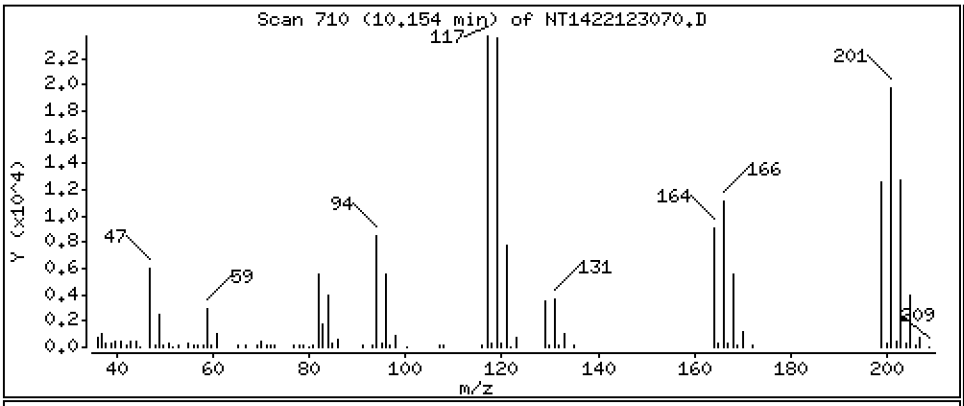
Operator: VTS

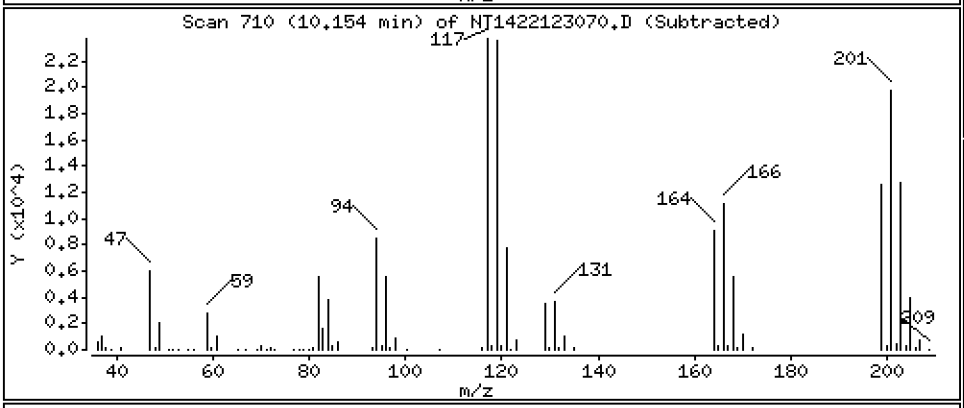
Column phase: ZB-5msi

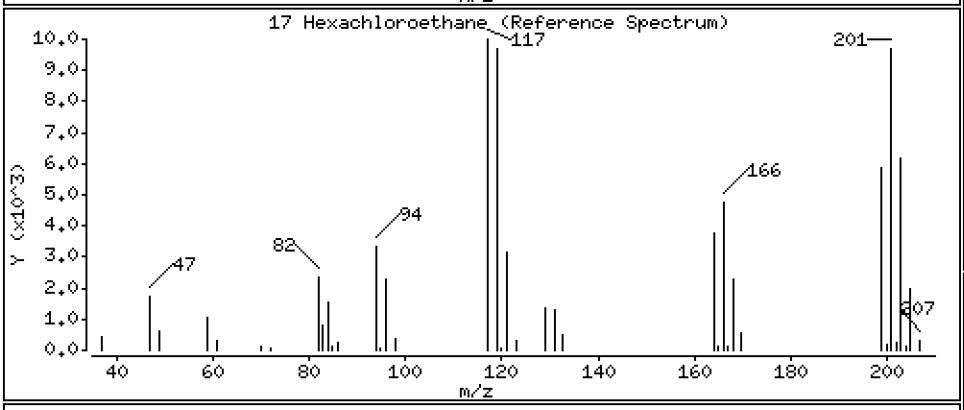
Column diameter: 0.25

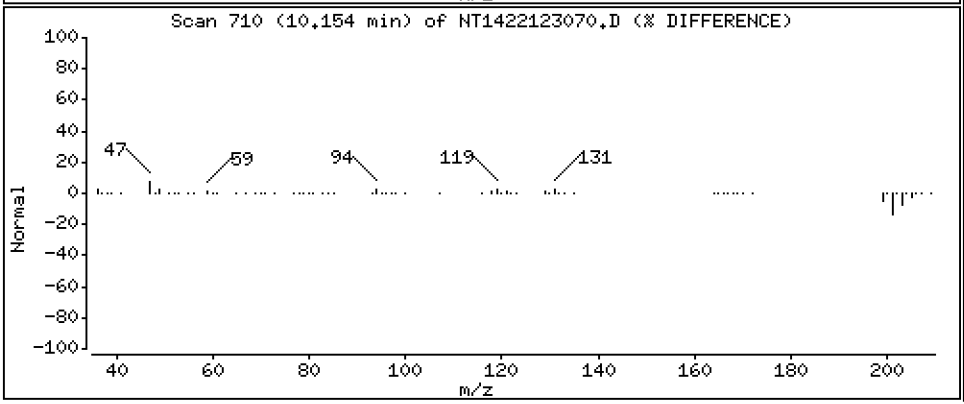
17 Hexachloroethane

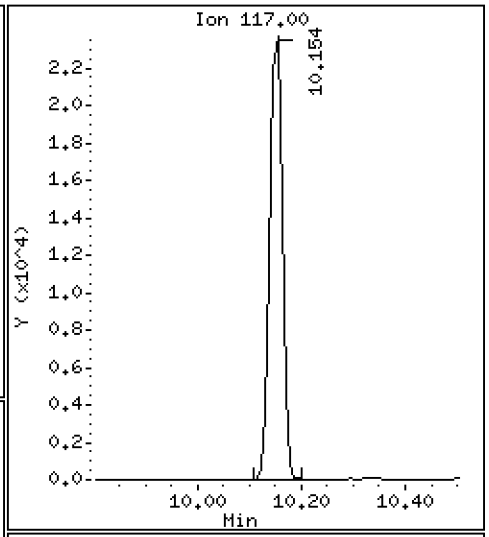
Concentration: 3.323 ug/mL

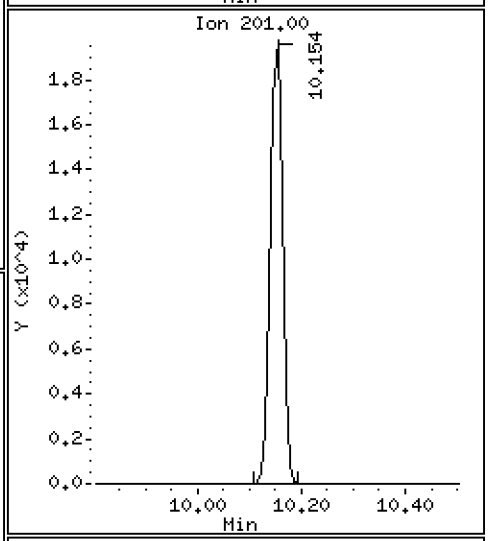


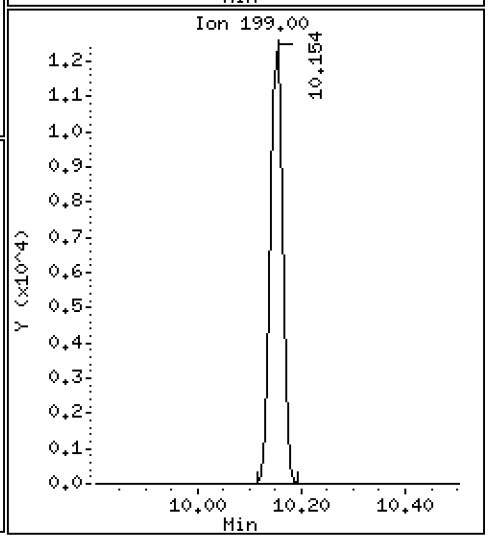












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123070.D

Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

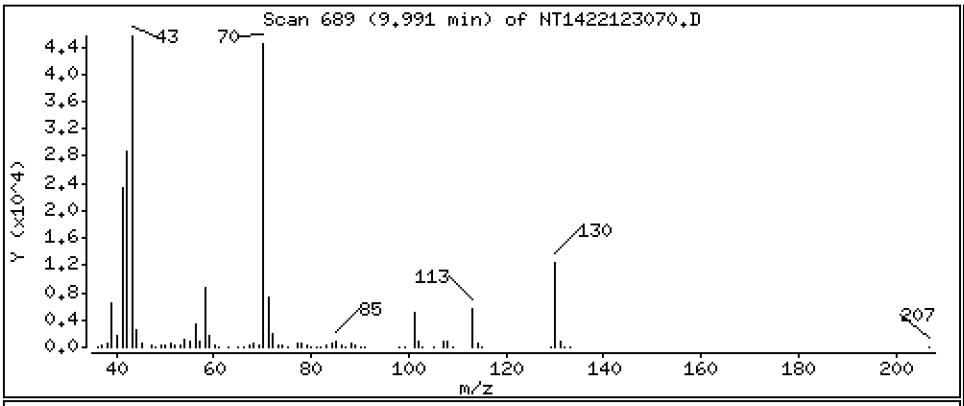
Operator: VTS

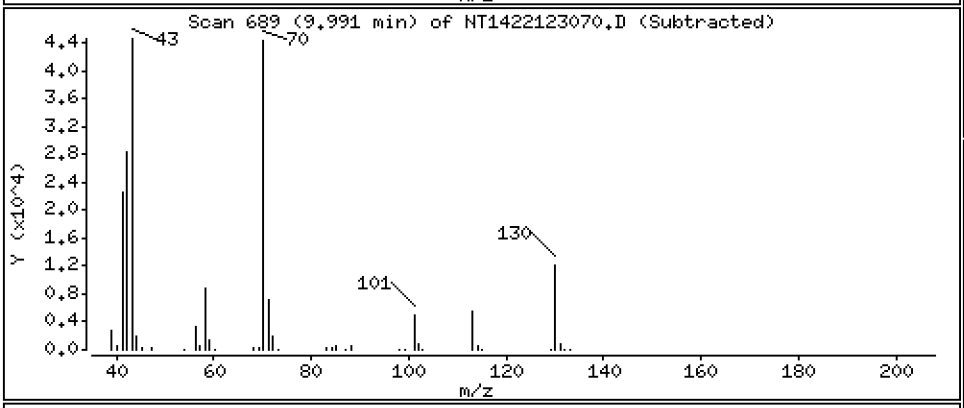
Column phase: ZB-5msi

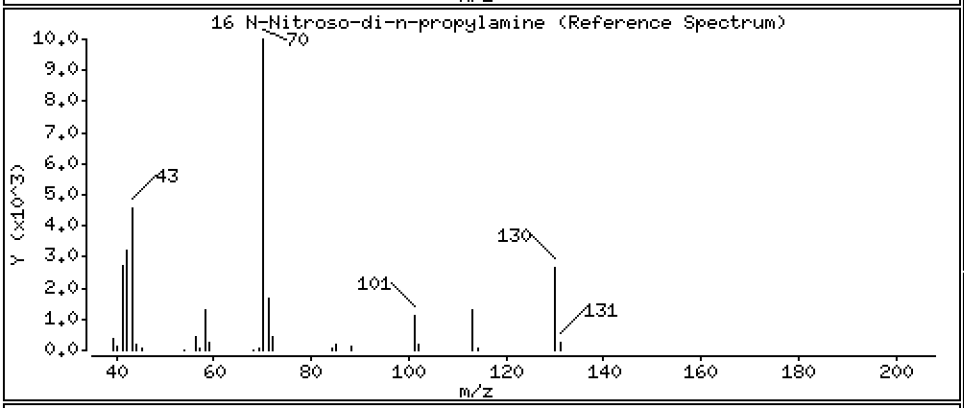
Column diameter: 0.25

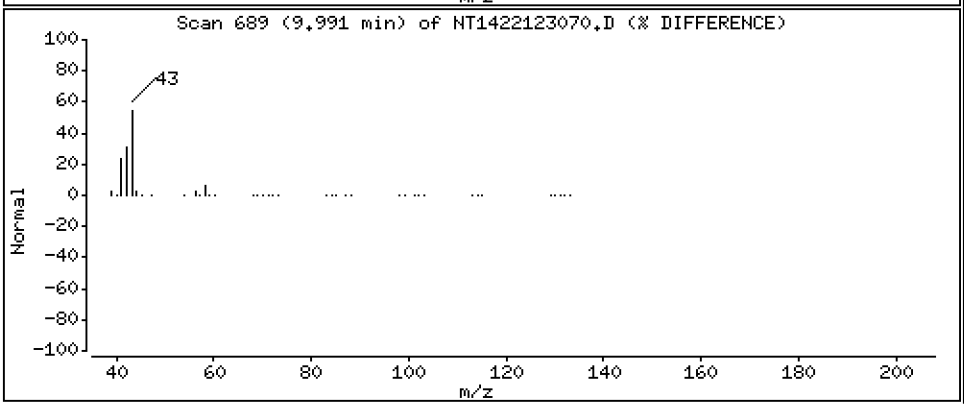
16 N-Nitroso-di-n-propylamine

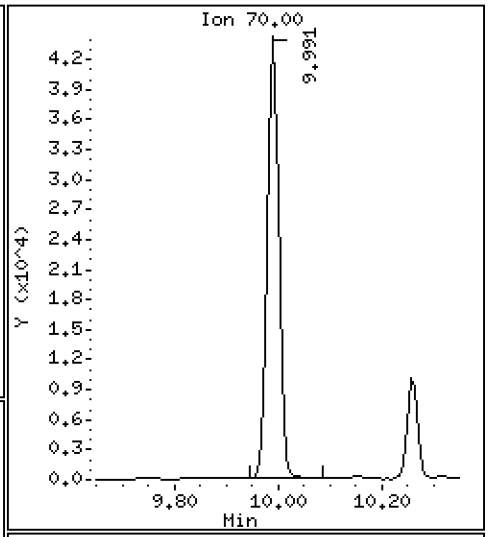
Concentration: 3.818 ug/mL

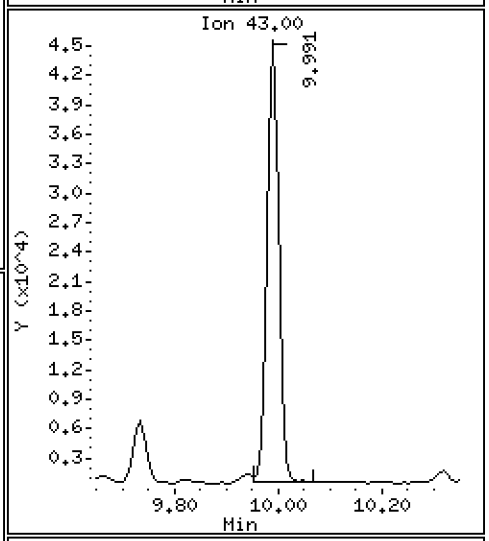


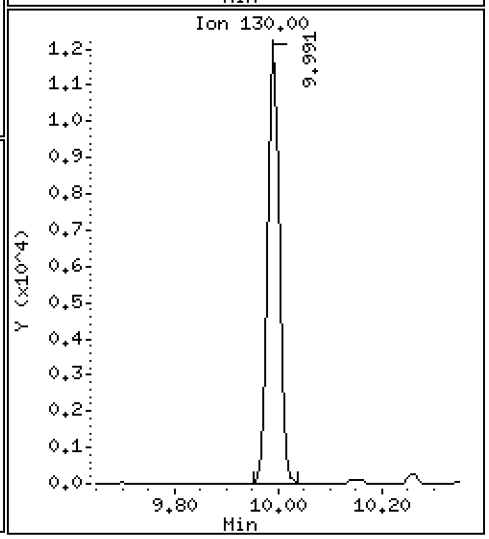












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

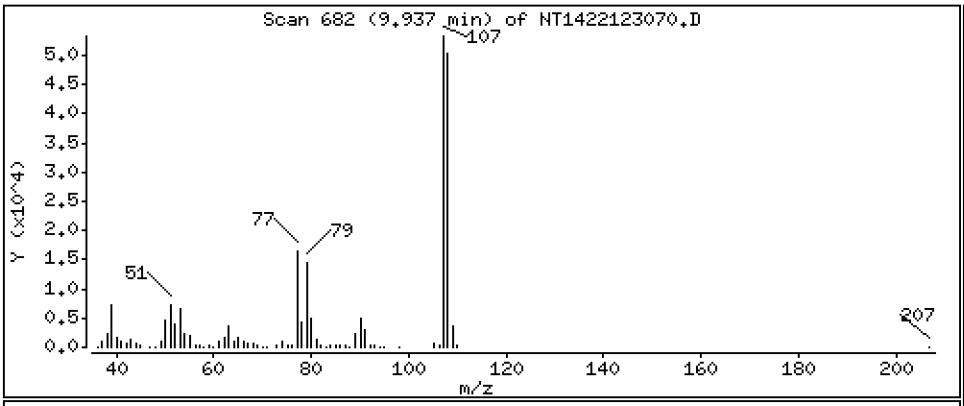
Operator: VTS

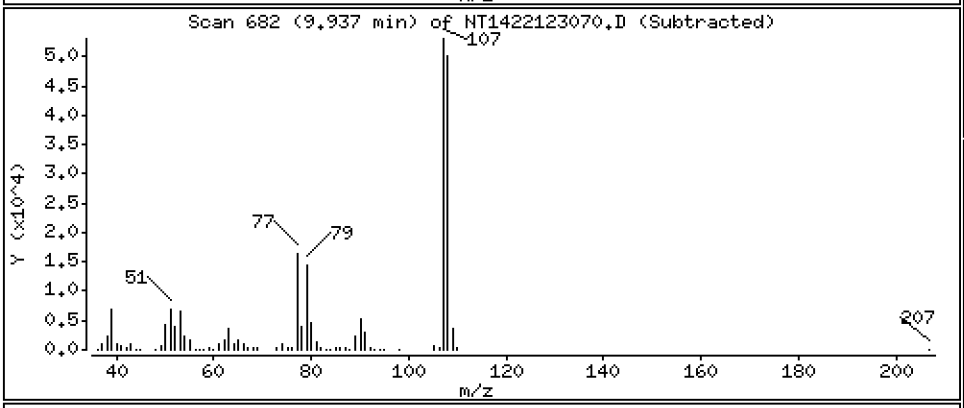
Column phase: ZB-5msi

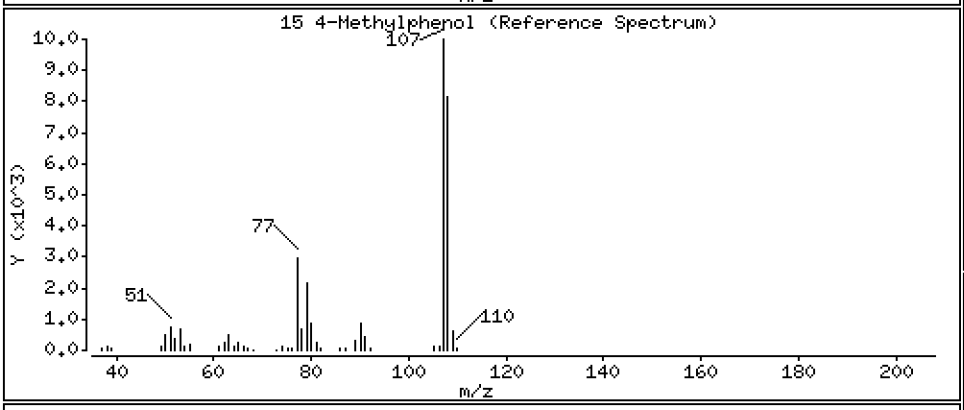
Column diameter: 0.25

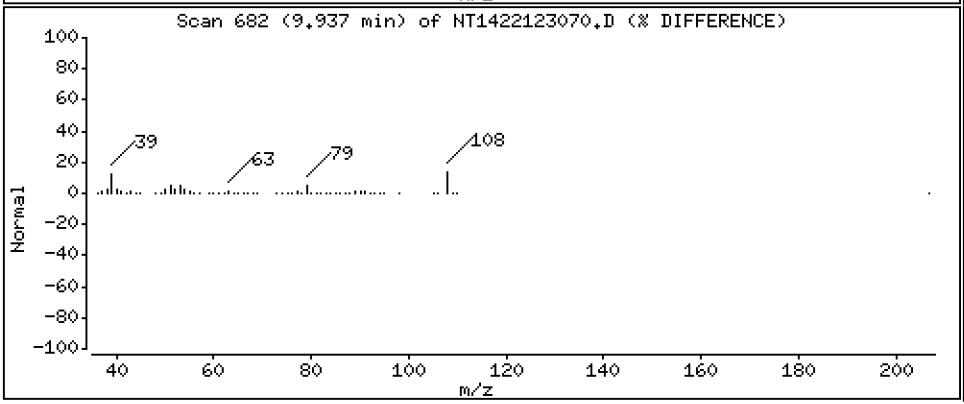
15 4-Methylphenol

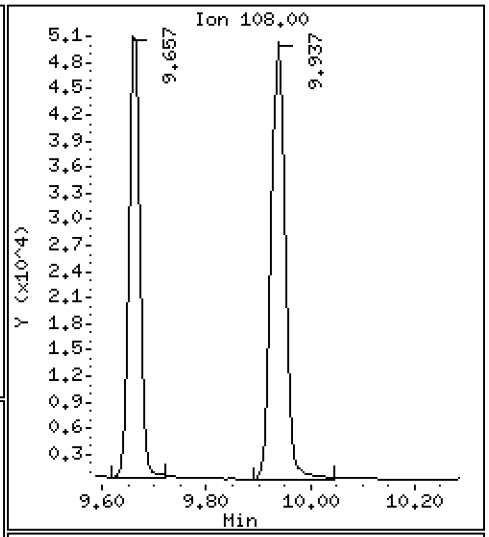
Concentration: 3.114 ug/mL

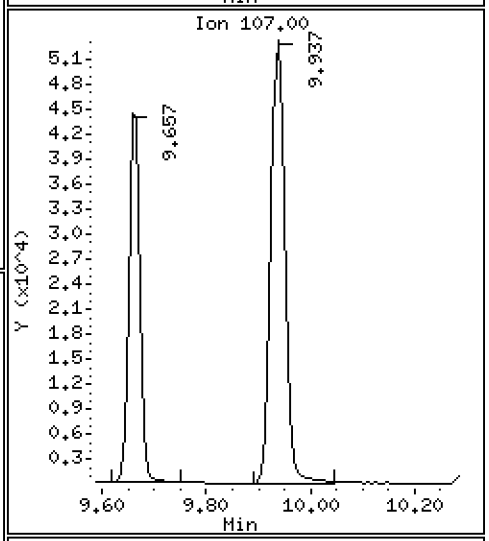


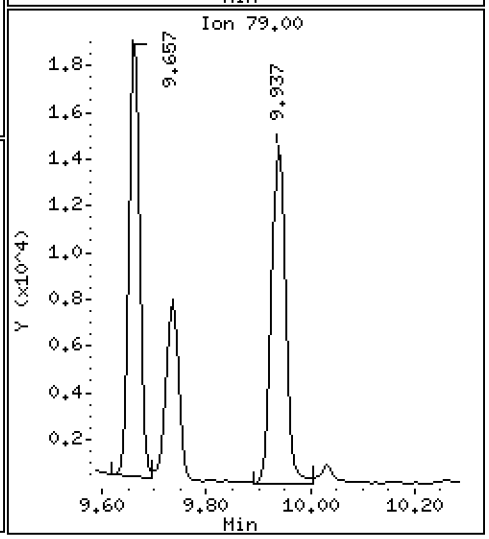












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

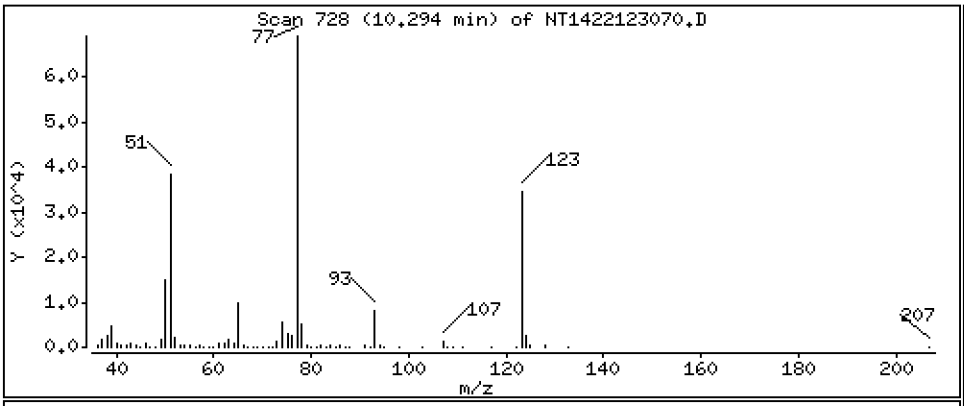
Operator: VTS

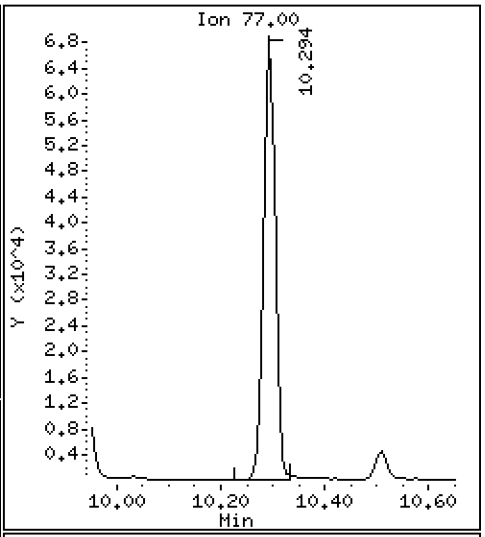
Column phase: ZB-5msi

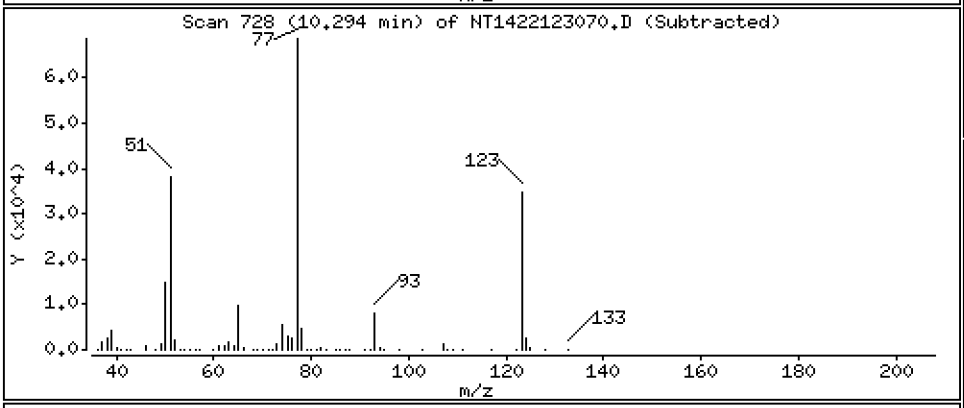
Column diameter: 0.25

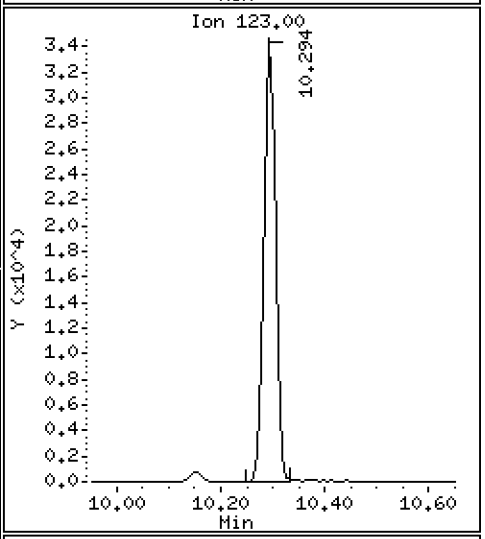
19 Nitrobenzene

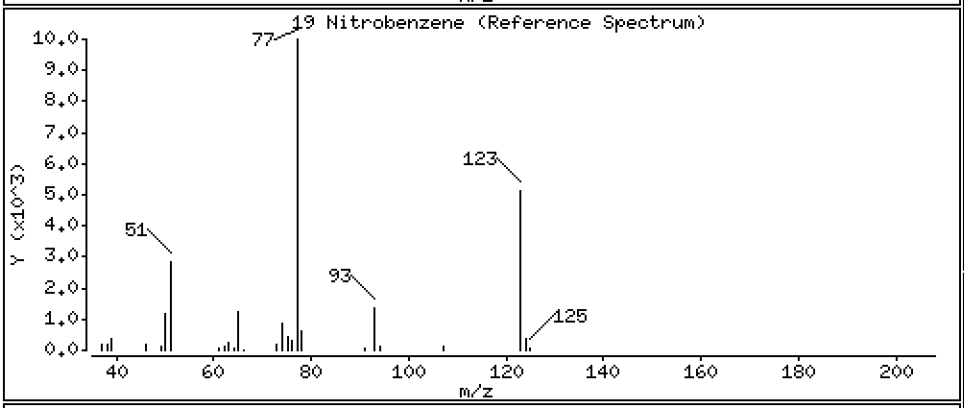
Concentration: 3.849 ug/mL

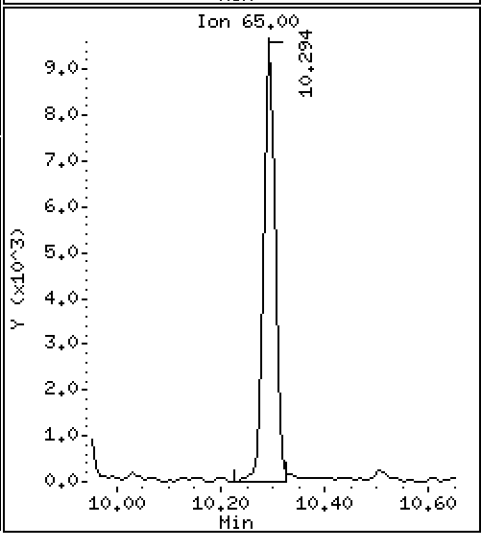


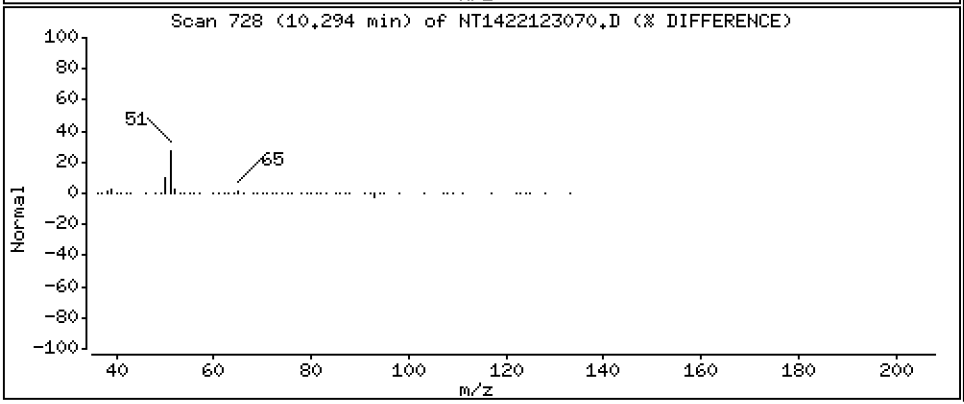












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

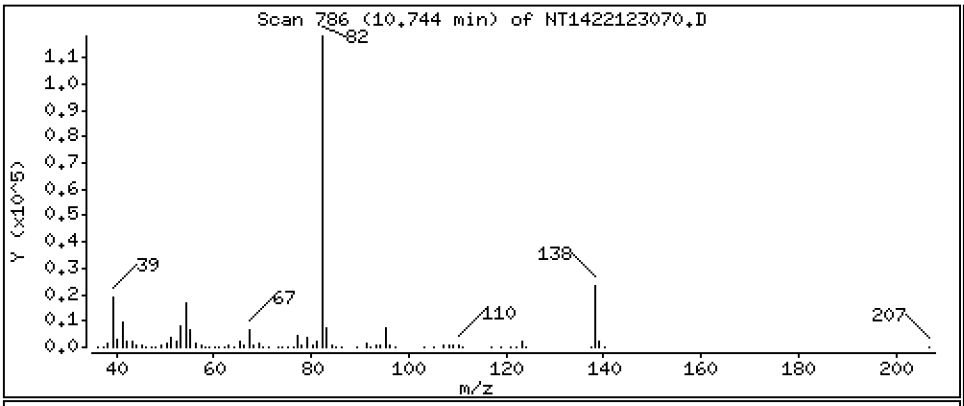
Operator: VTS

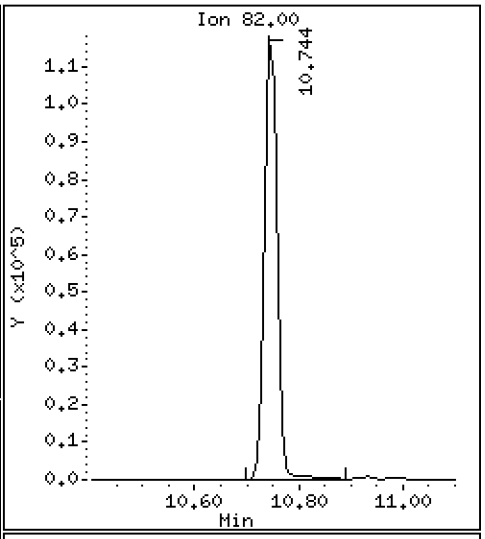
Column phase: ZB-5msi

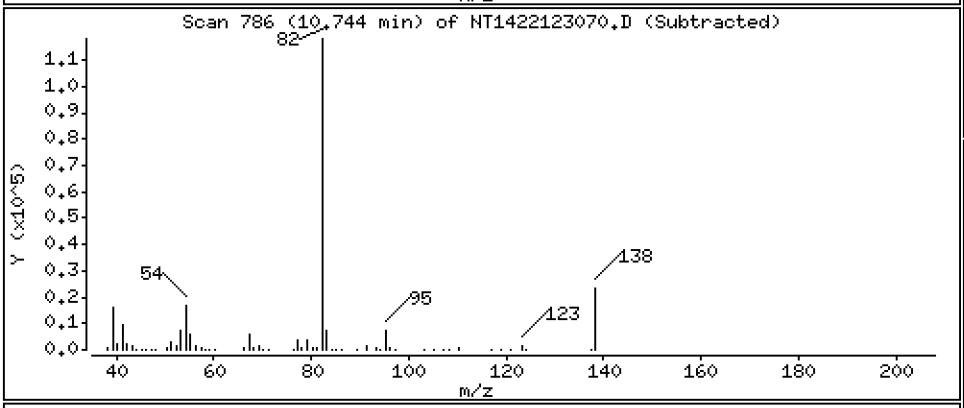
Column diameter: 0.25

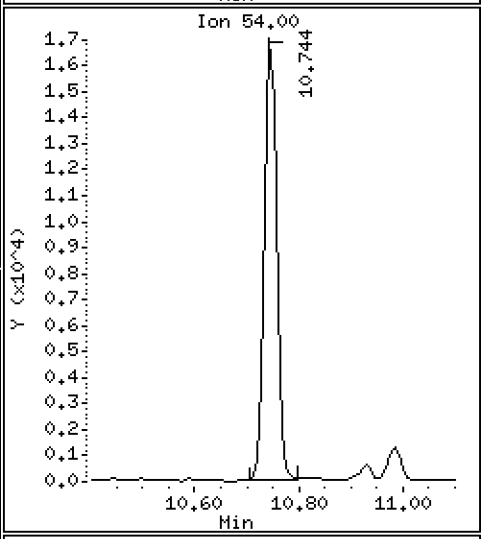
20 Isophorone

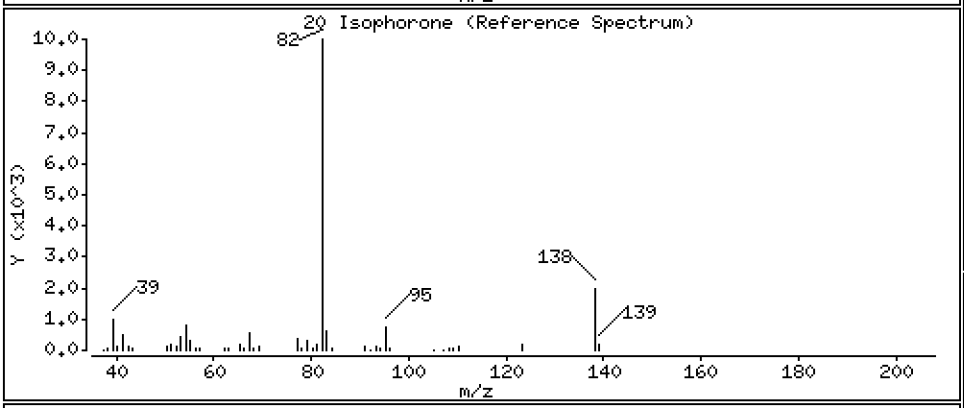
Concentration: 5.735 ug/mL

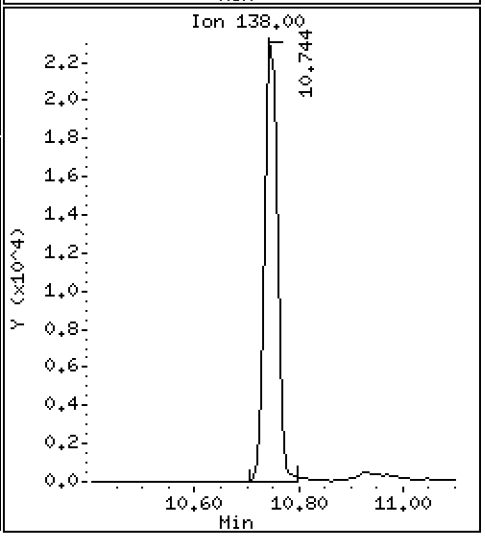


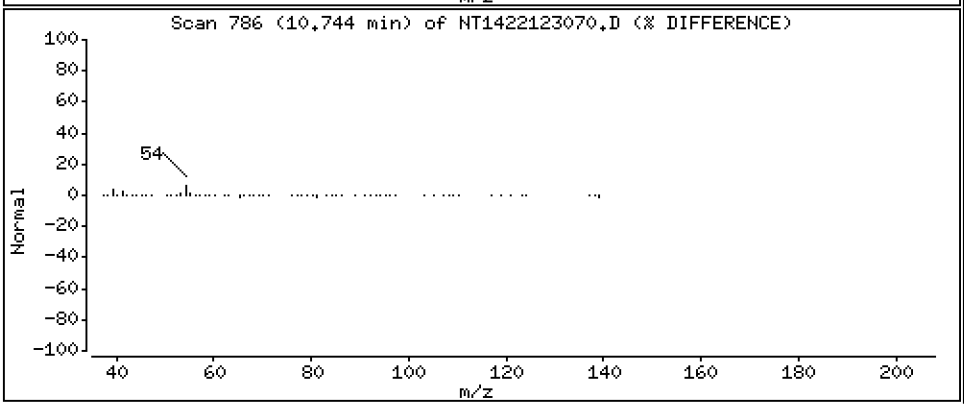












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

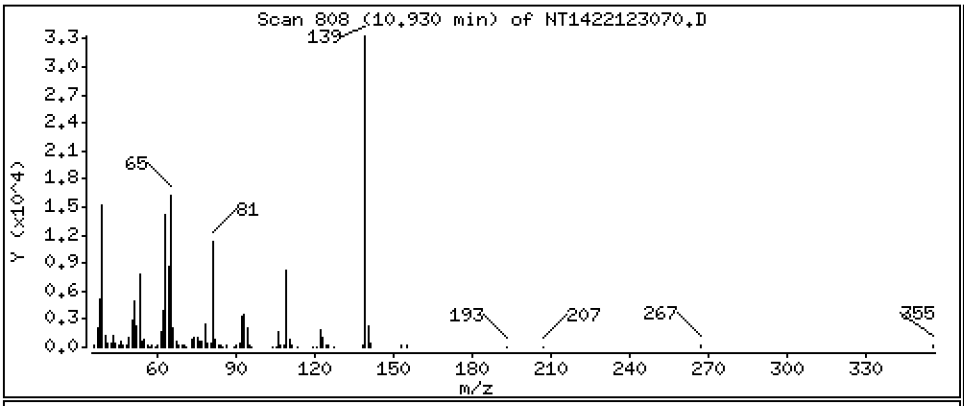
Operator: VTS

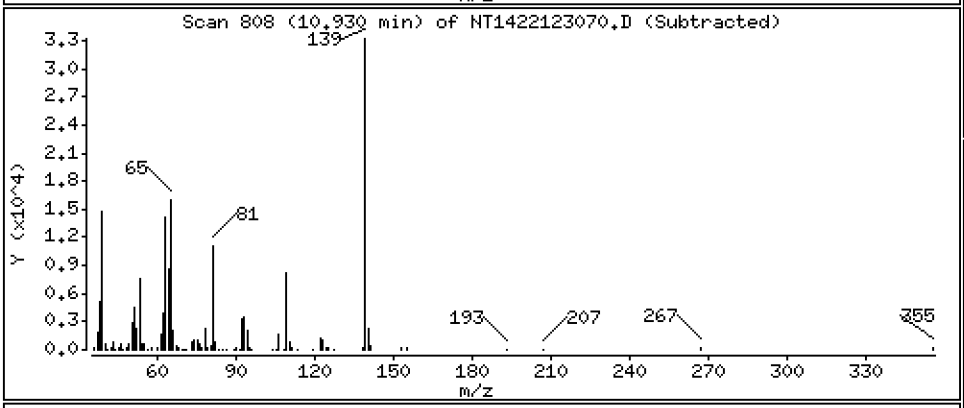
Column phase: ZB-5msi

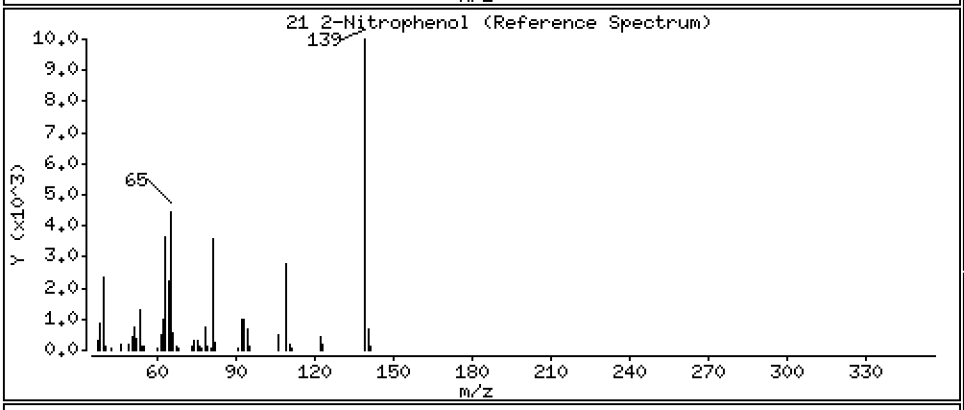
Column diameter: 0.25

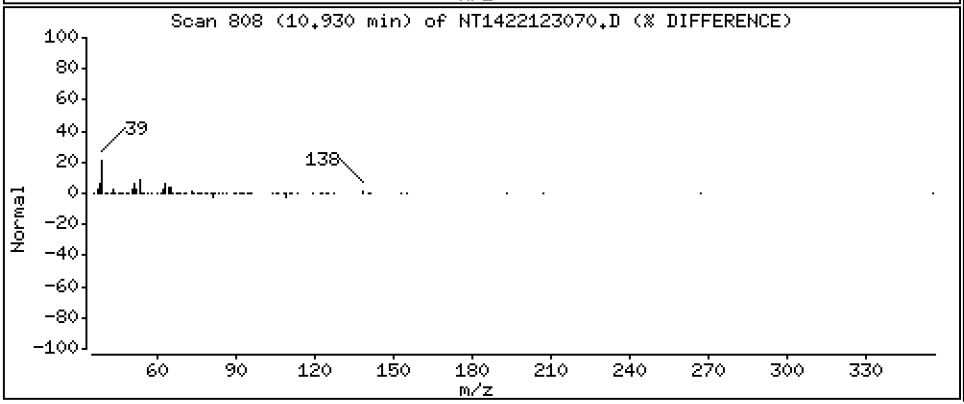
21 2-Nitrophenol

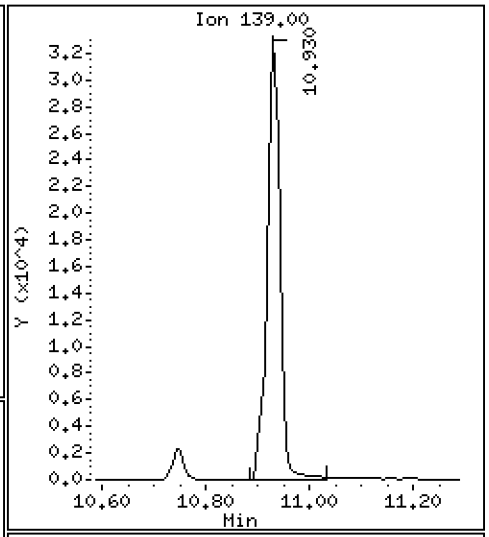
Concentration: 3.395 ug/mL

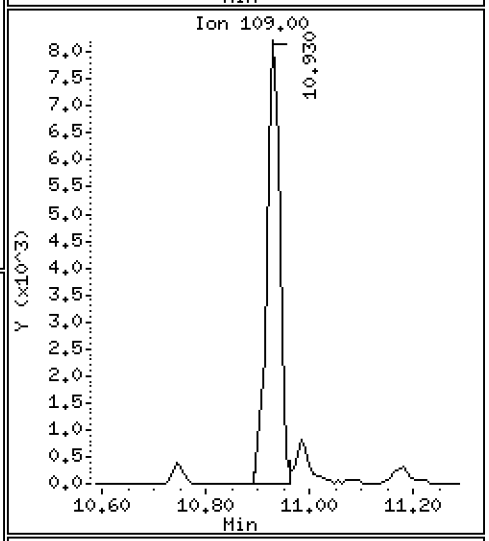


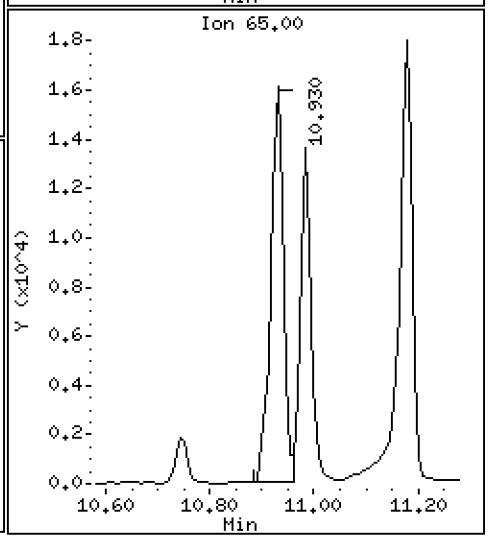












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

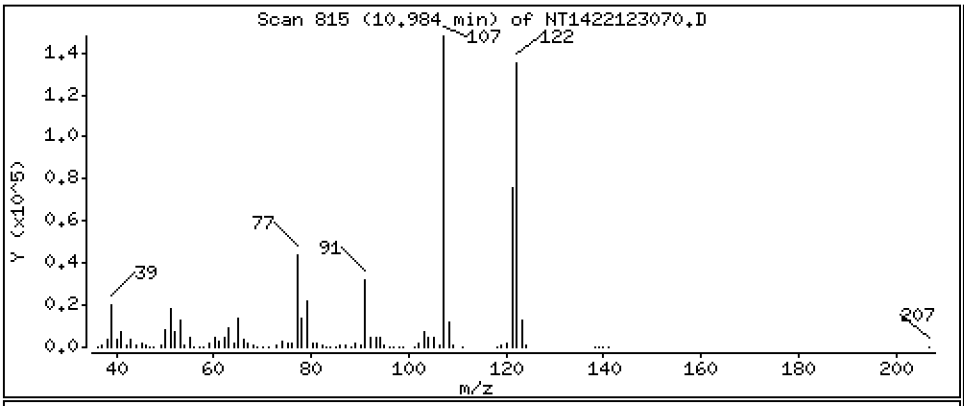
Operator: VTS

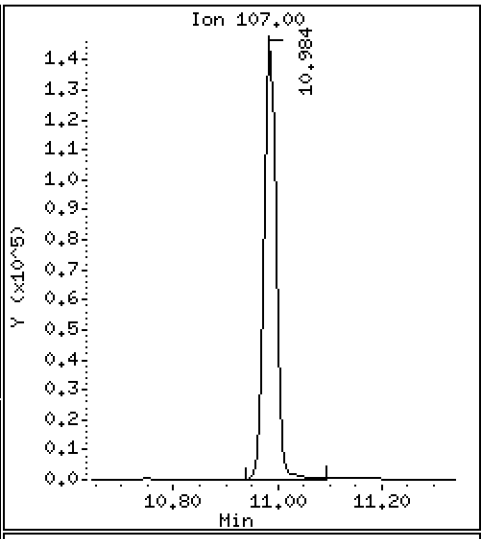
Column phase: ZB-5msi

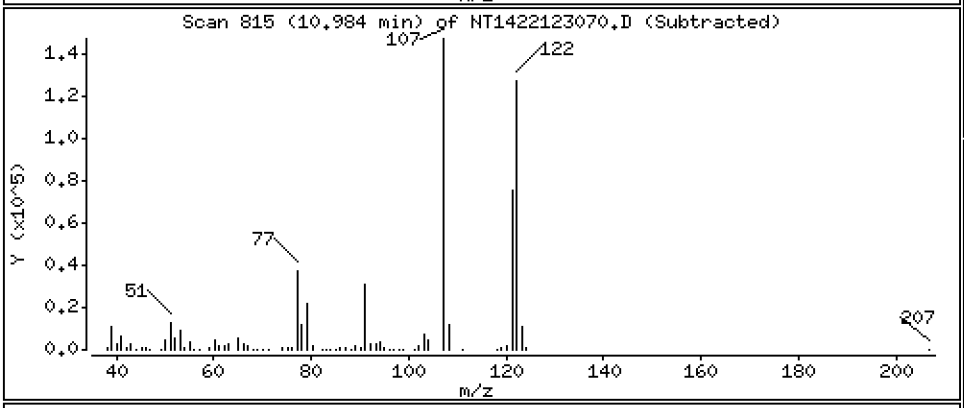
Column diameter: 0.25

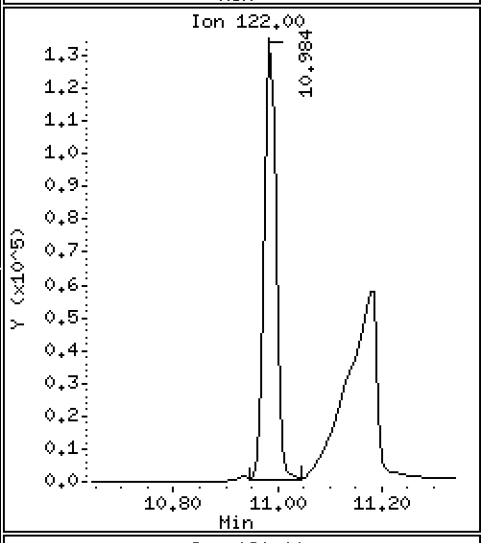
22 2,4-Dimethylphenol

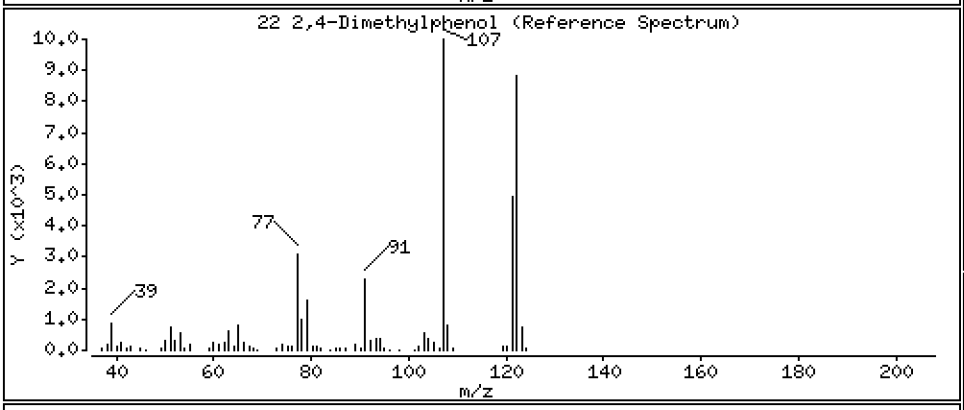
Concentration: 8.193 ug/mL

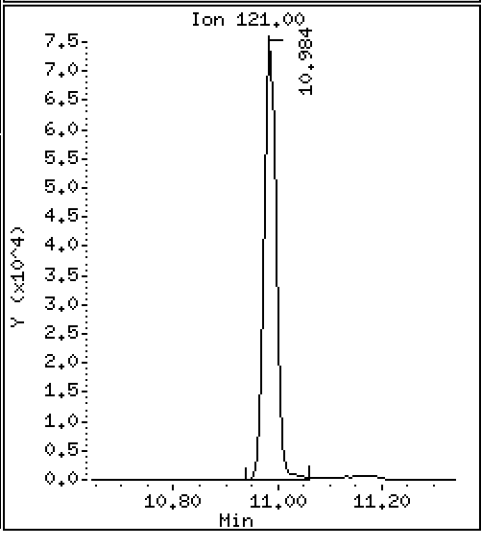


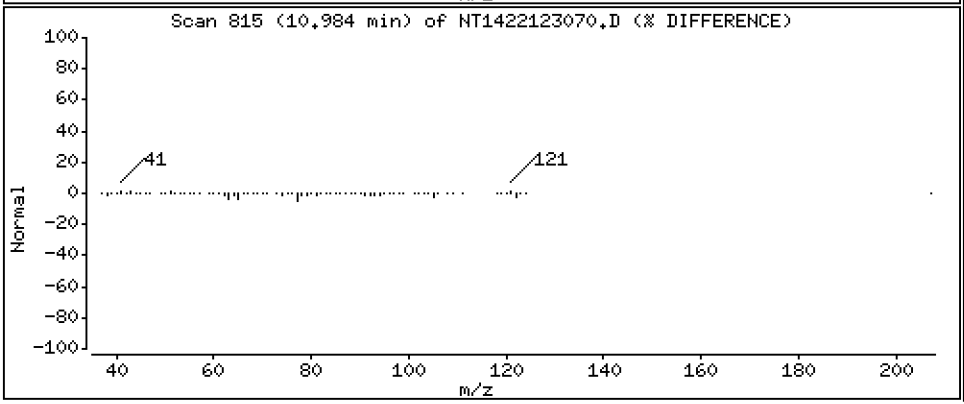












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

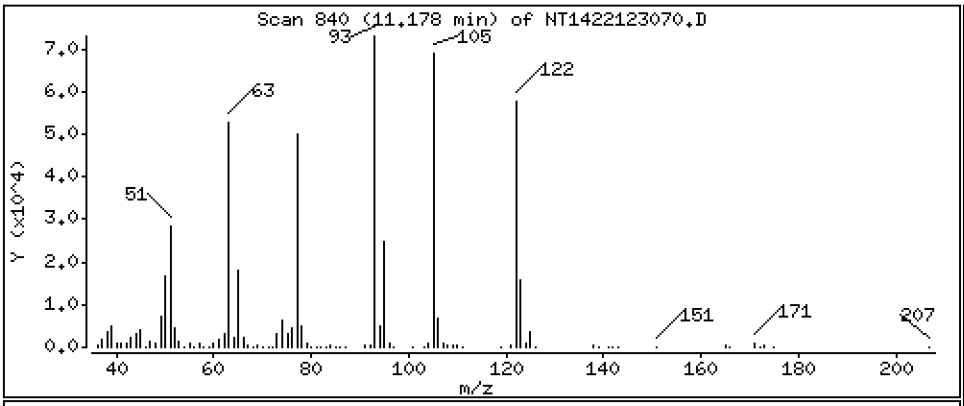
Operator: VTS

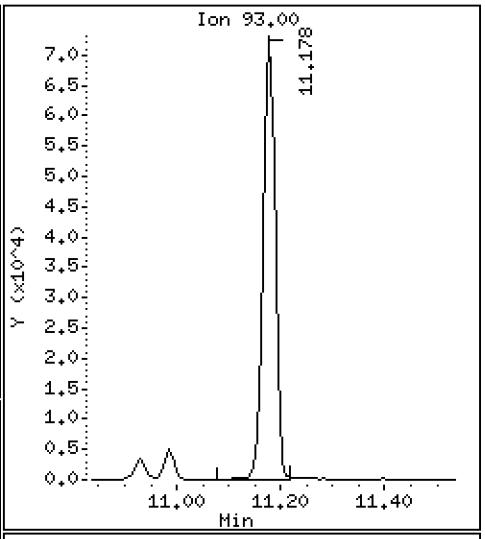
Column phase: ZB-5msi

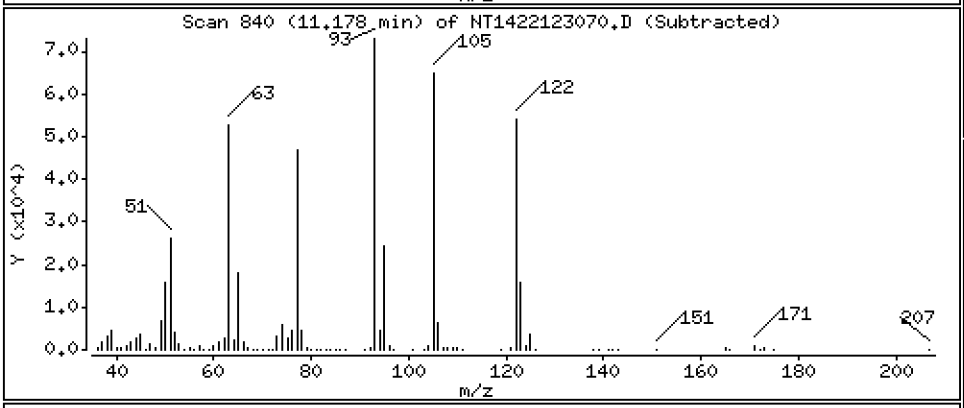
Column diameter: 0.25

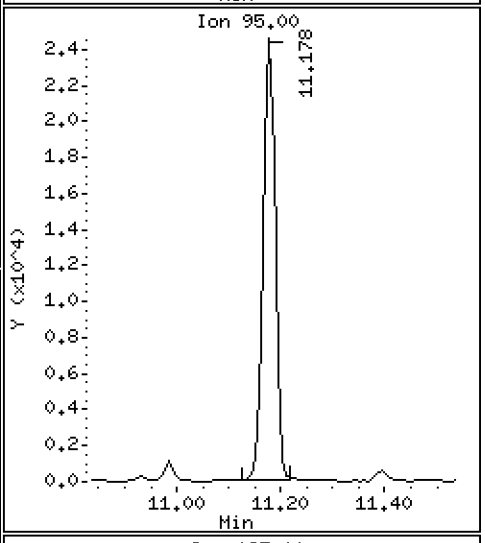
23 Bis(2-Chloroethoxy)methane

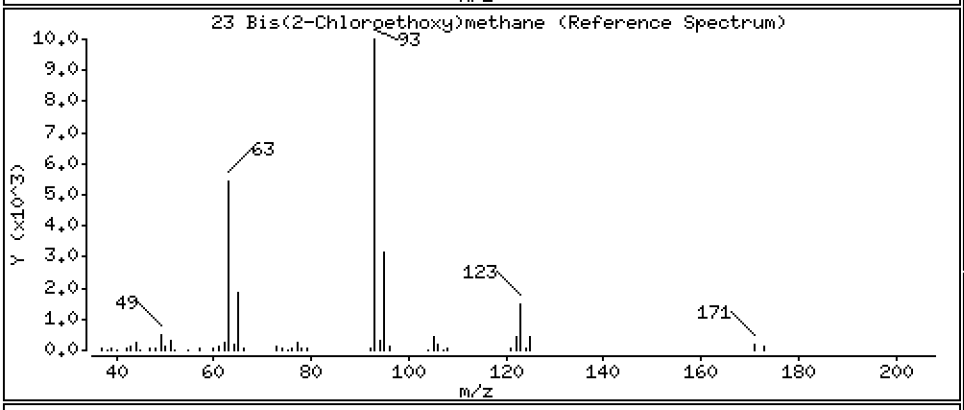
Concentration: 4.287 ug/mL

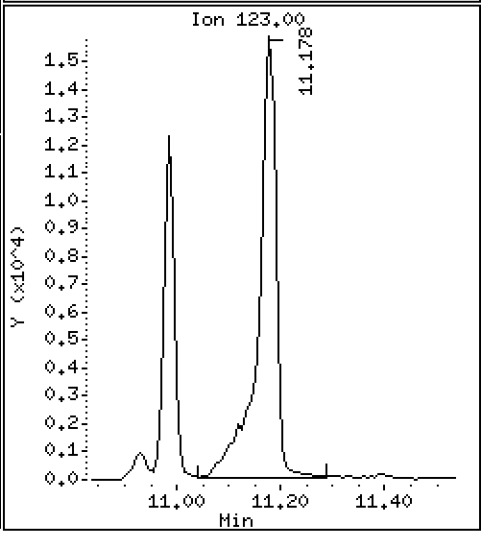


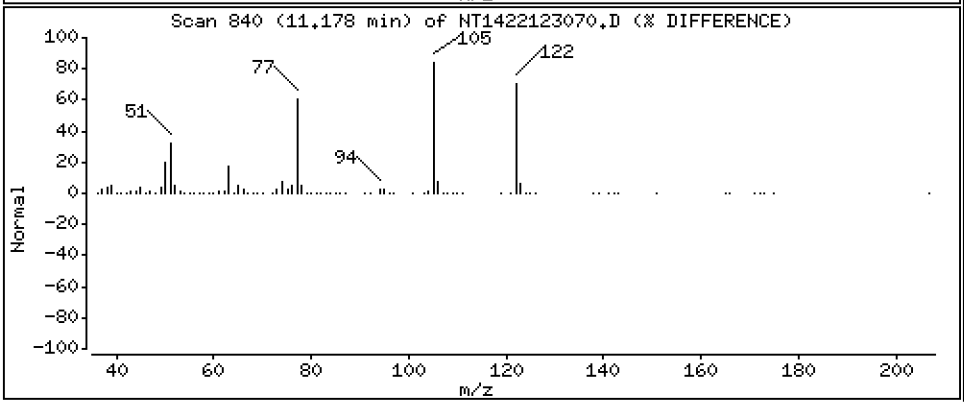












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123070.D

Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

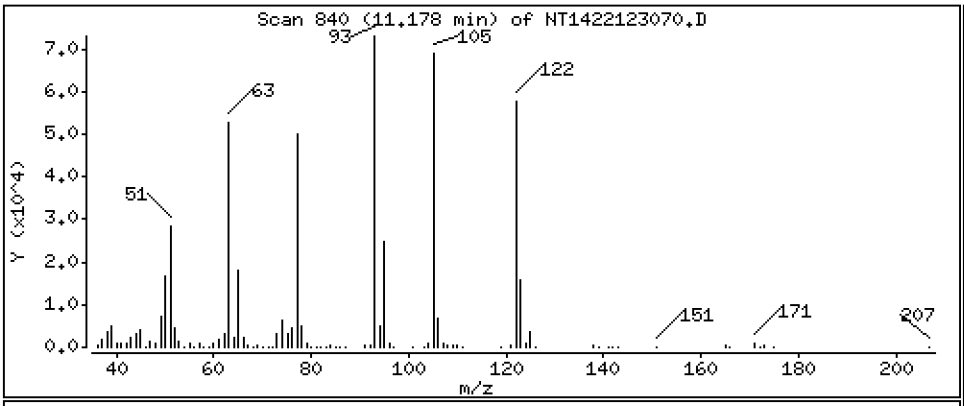
Operator: VTS

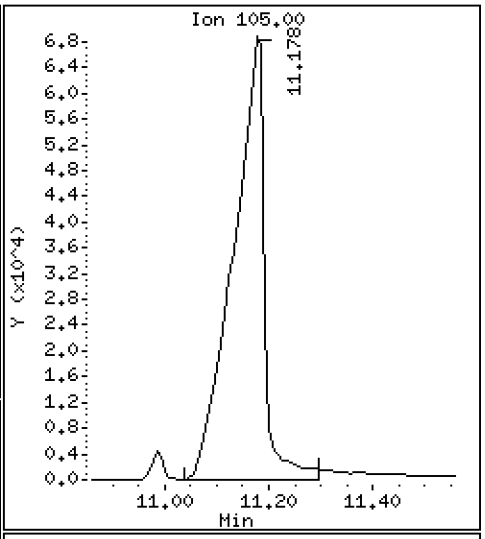
Column phase: ZB-5msi

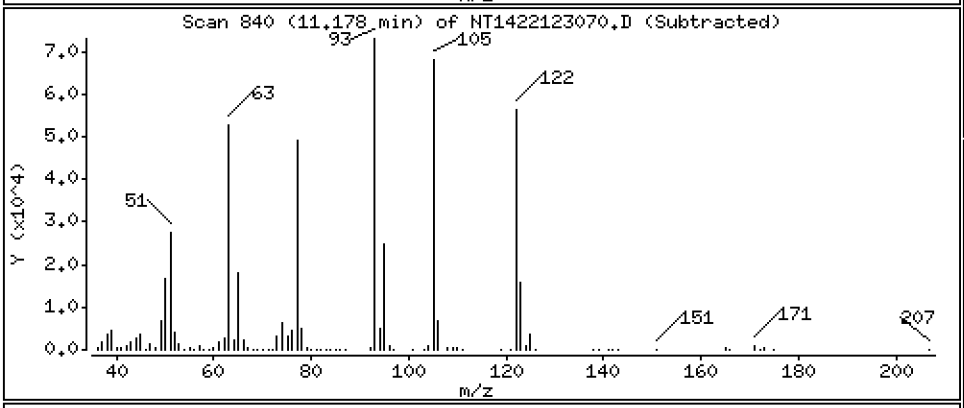
Column diameter: 0.25

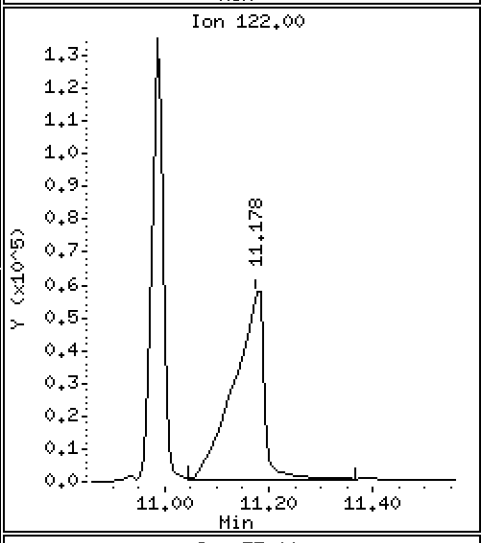
24 Benzoic acid

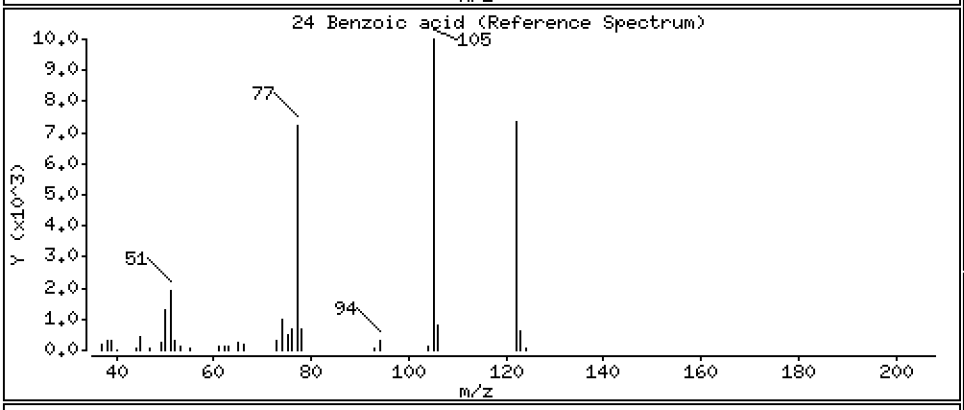
Concentration: 17.00 ug/mL

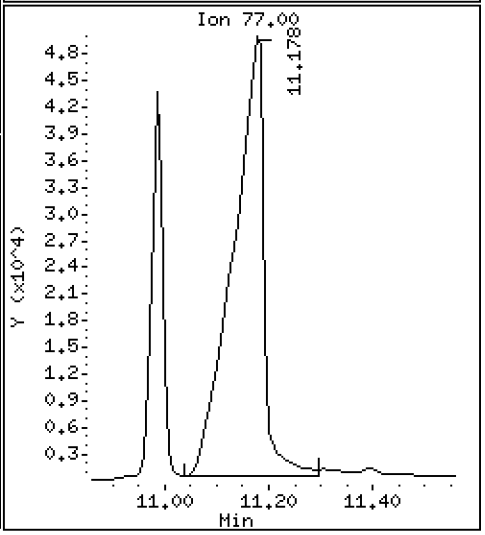


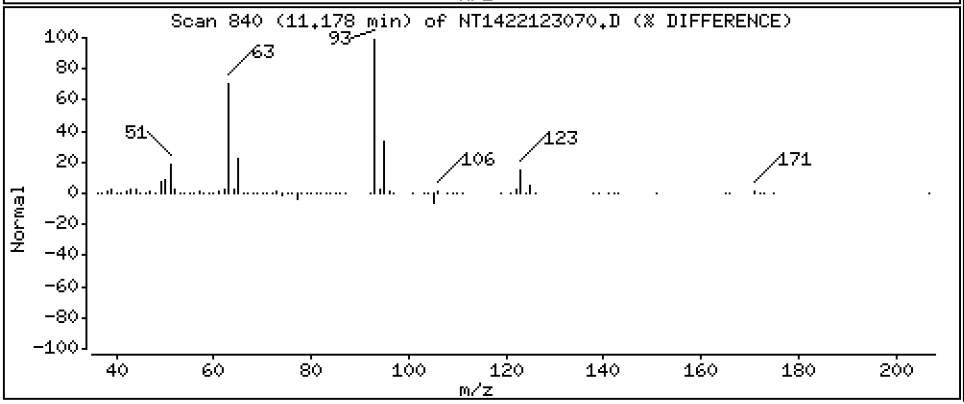












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

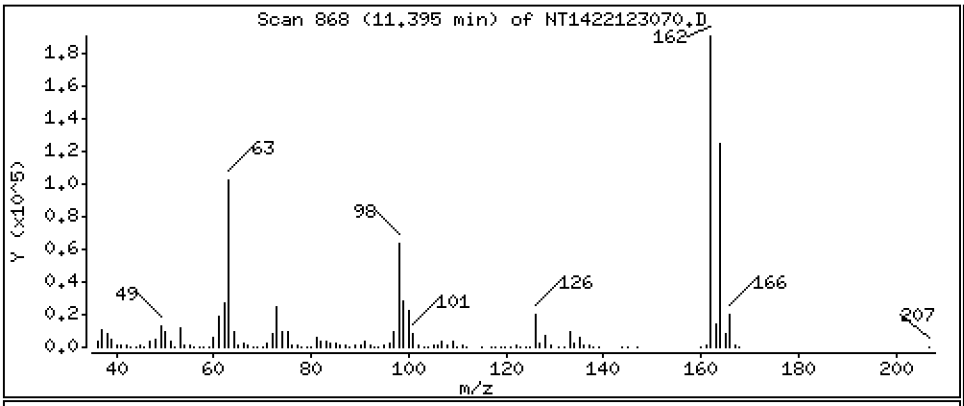
Operator: VTS

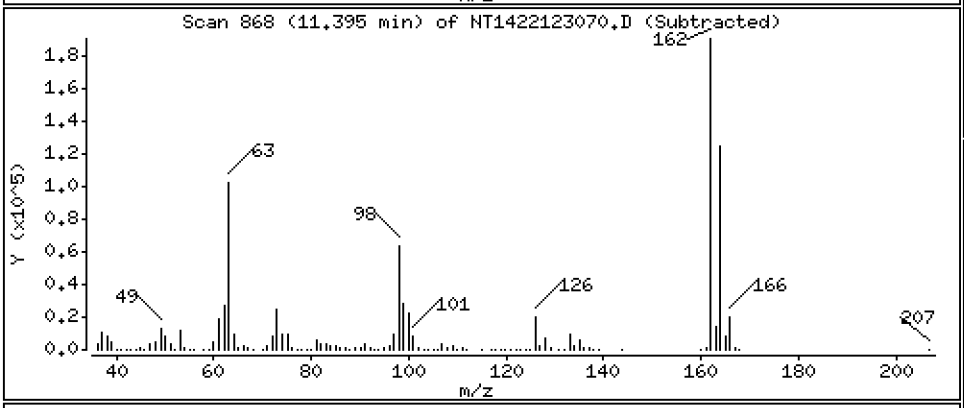
Column phase: ZB-5msi

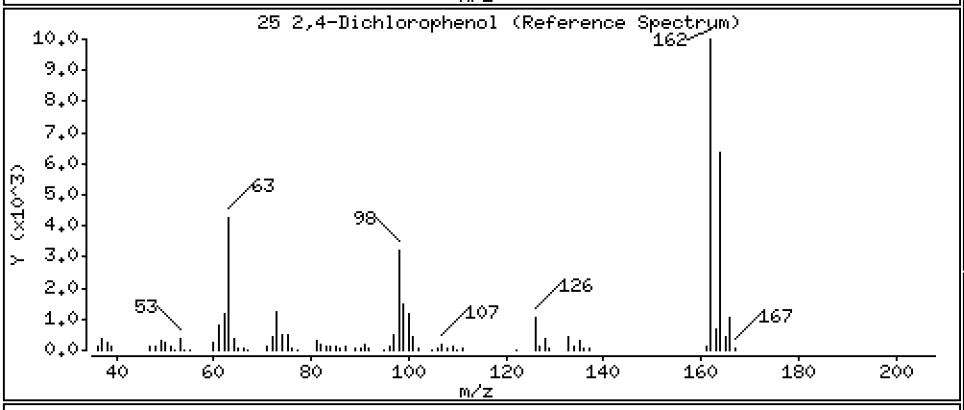
Column diameter: 0.25

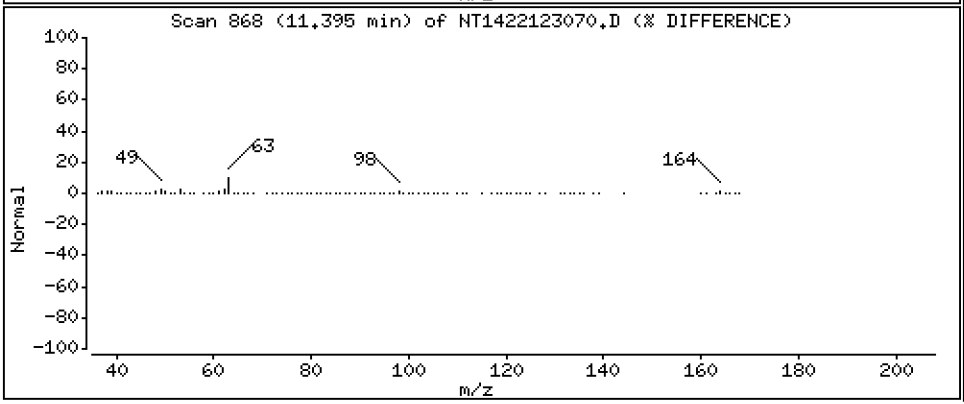
25 2,4-Dichlorophenol

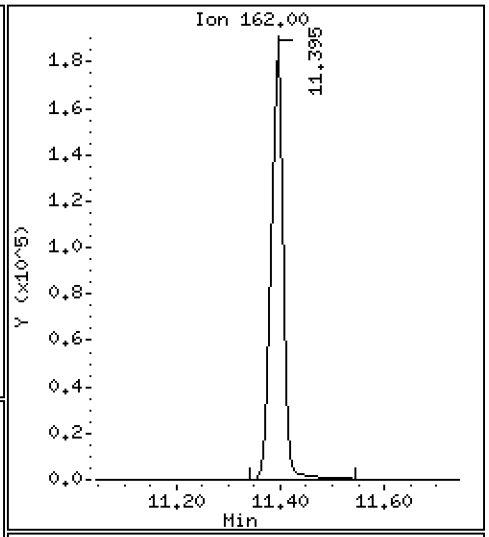
Concentration: 13.91 ug/mL

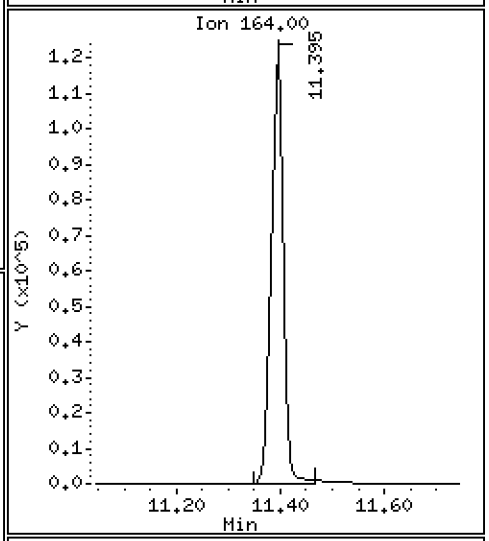


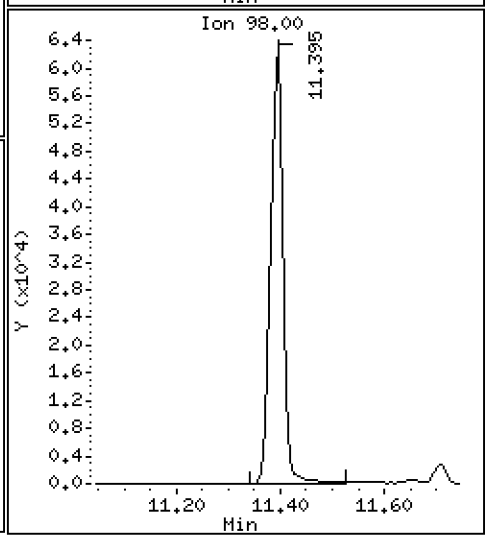












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

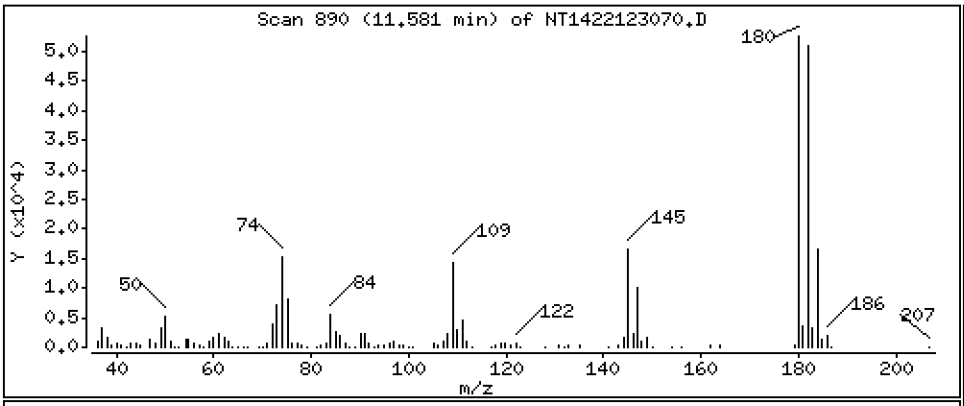
Operator: VTS

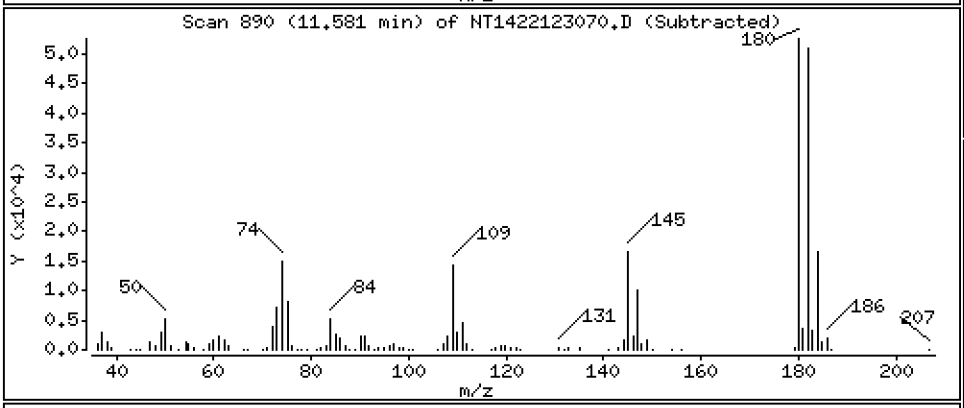
Column phase: ZB-5msi

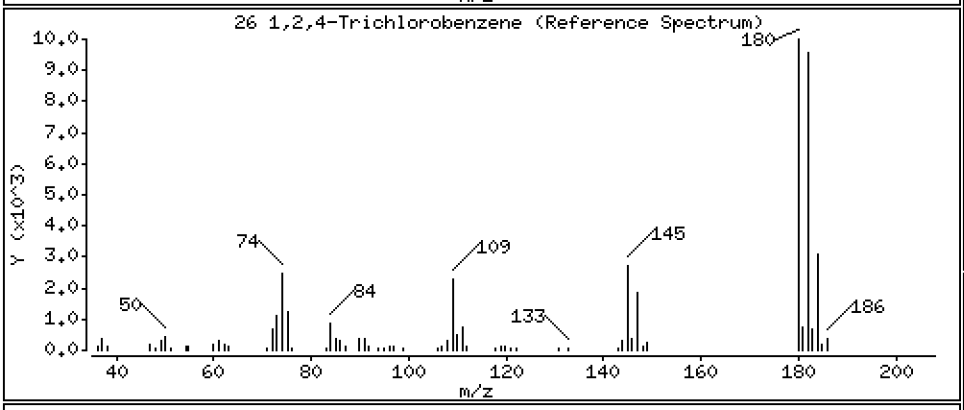
Column diameter: 0.25

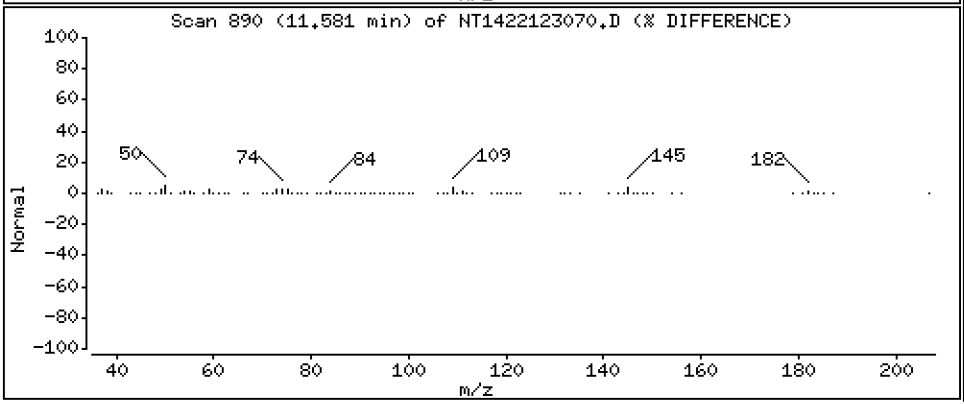
26 1,2,4-Trichlorobenzene

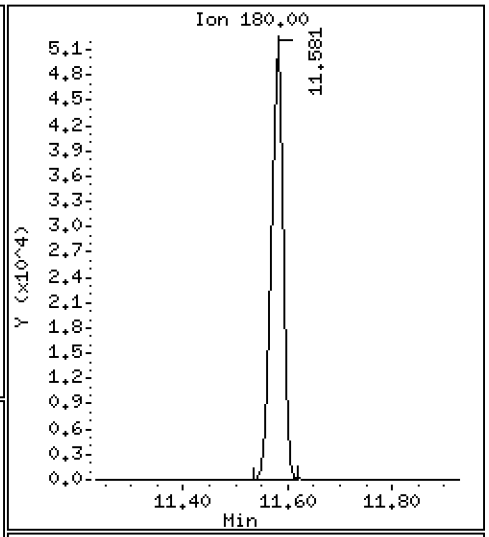
Concentration: 3.214 ug/mL

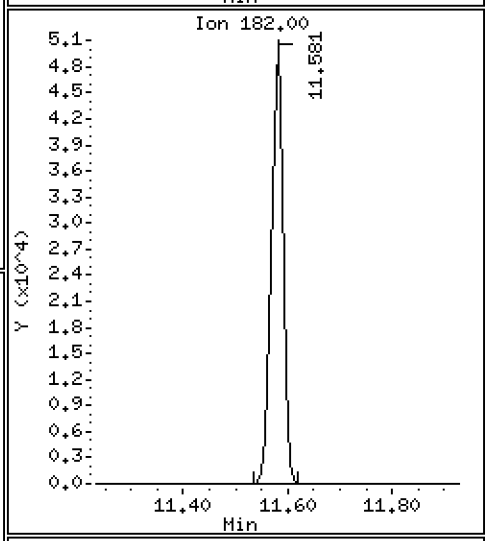


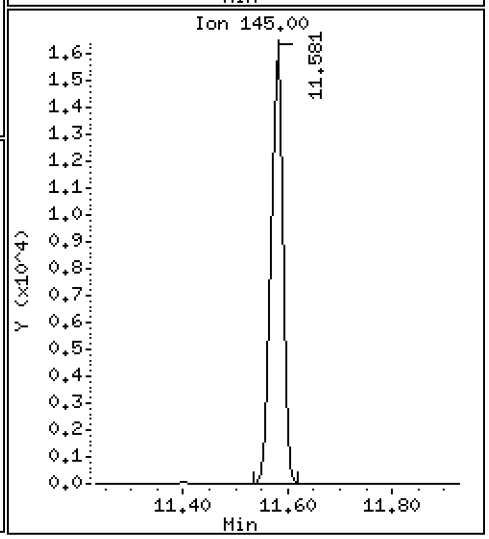












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

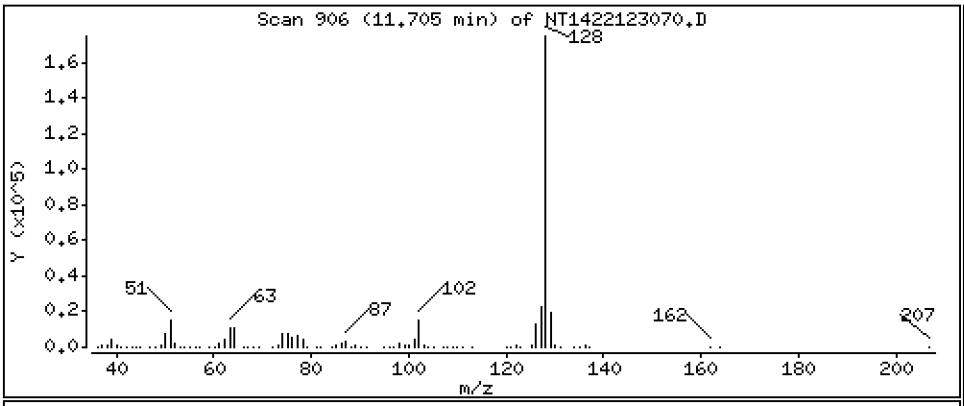
Operator: VTS

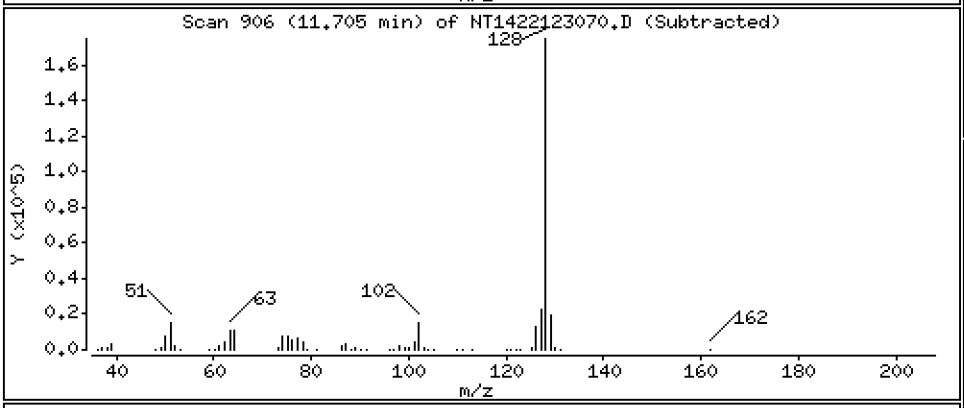
Column phase: ZB-5msi

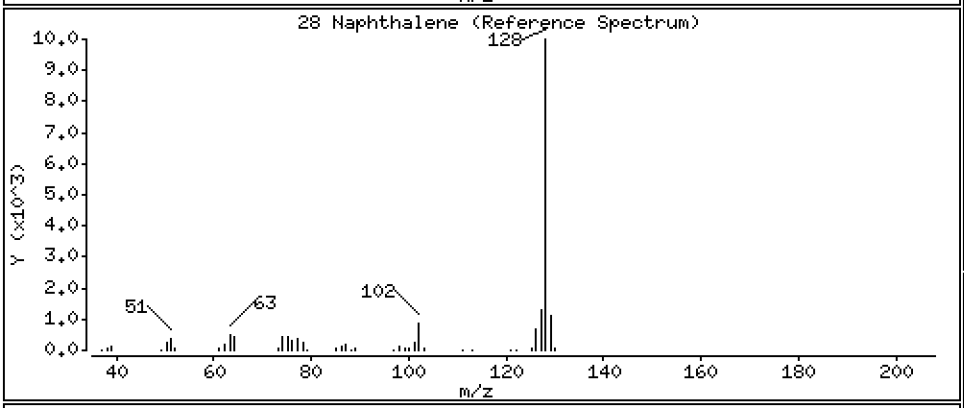
Column diameter: 0.25

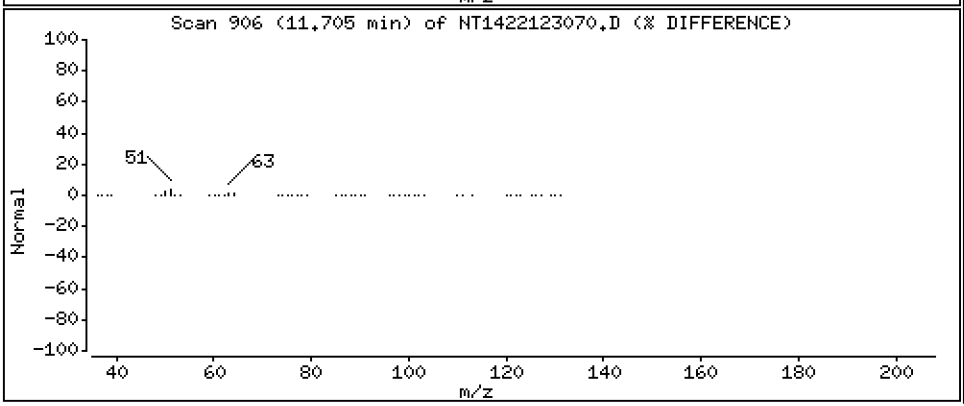
28 Naphthalene

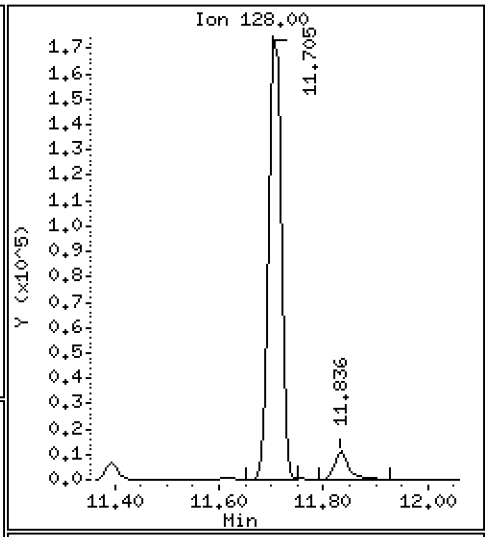
Concentration: 3.606 ug/mL

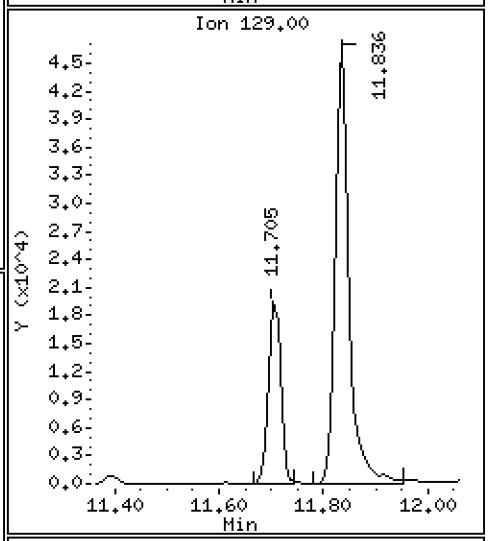


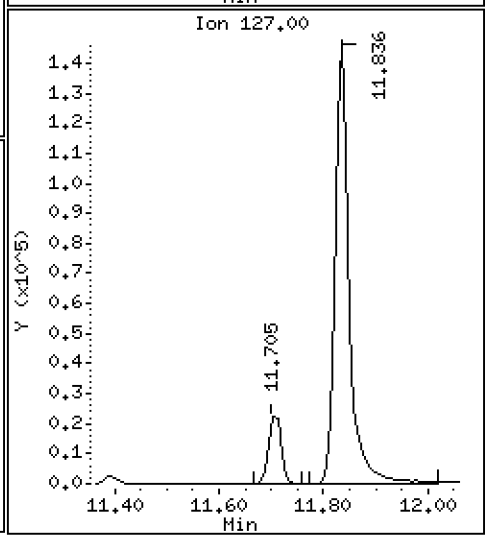












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

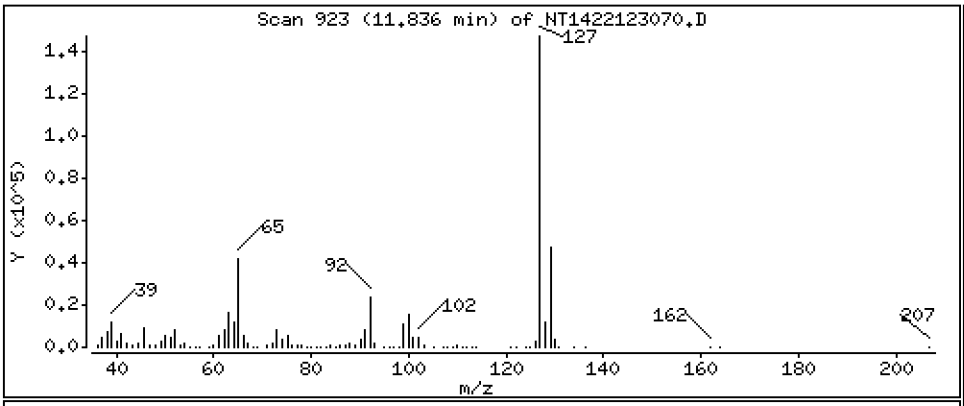
Operator: VTS

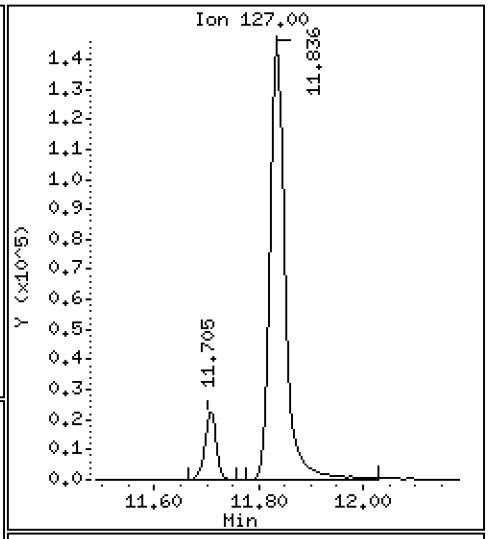
Column phase: ZB-5msi

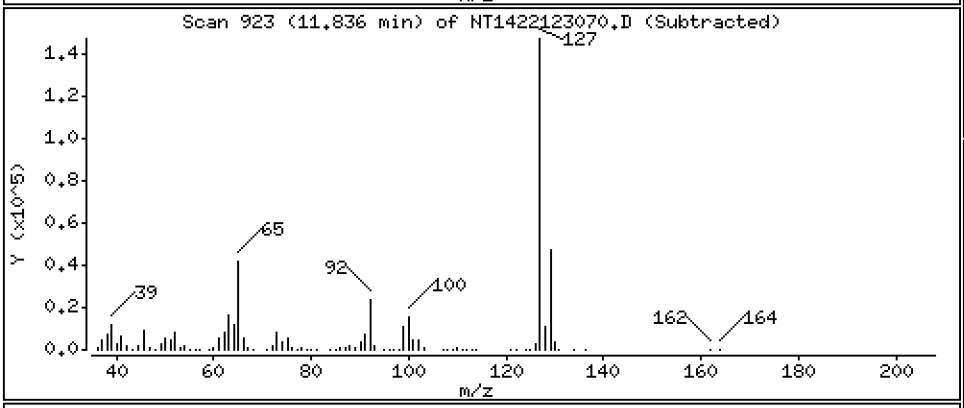
Column diameter: 0.25

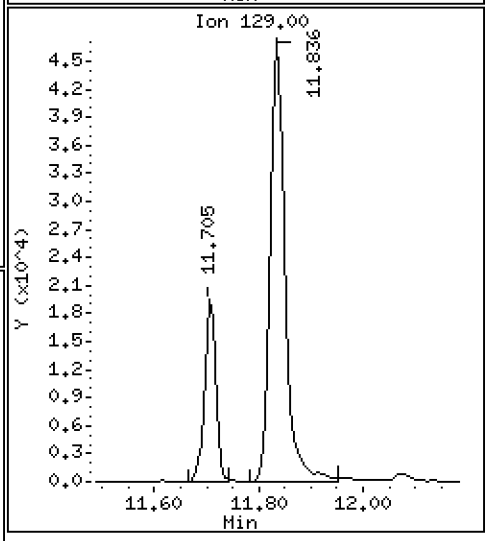
29 4-Chloroaniline

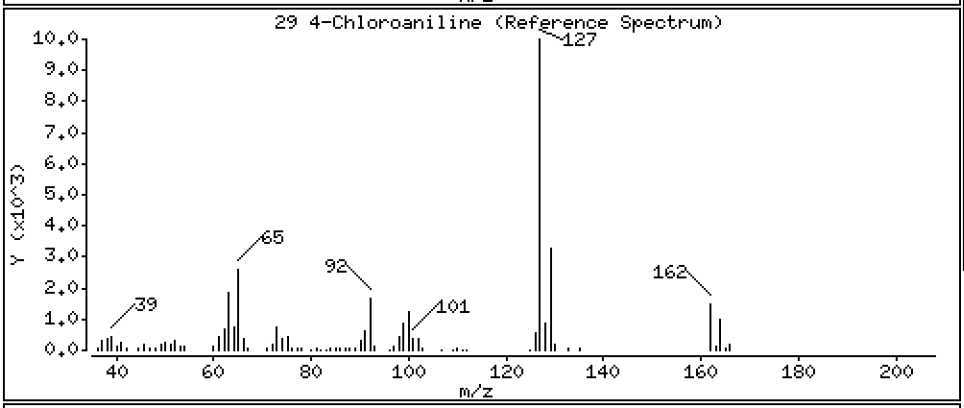
Concentration: 9.488 ug/mL

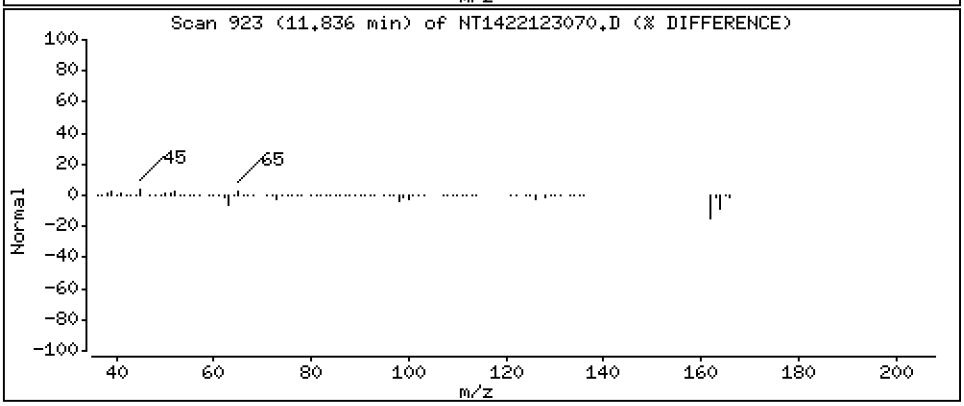












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

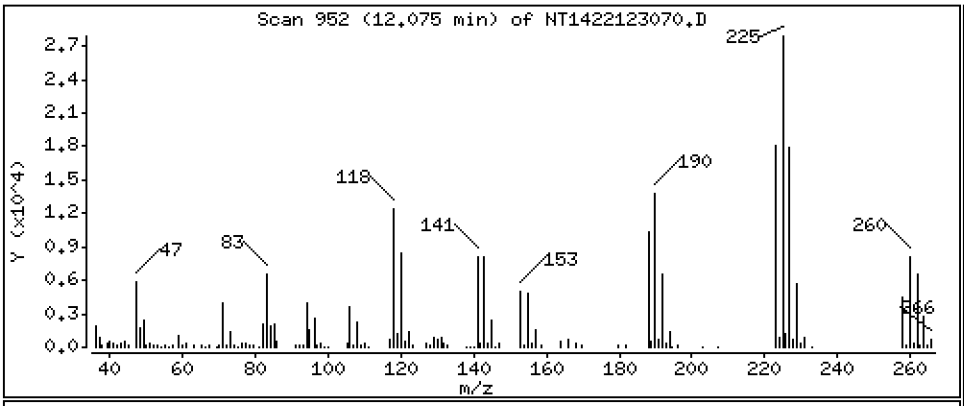
Operator: VTS

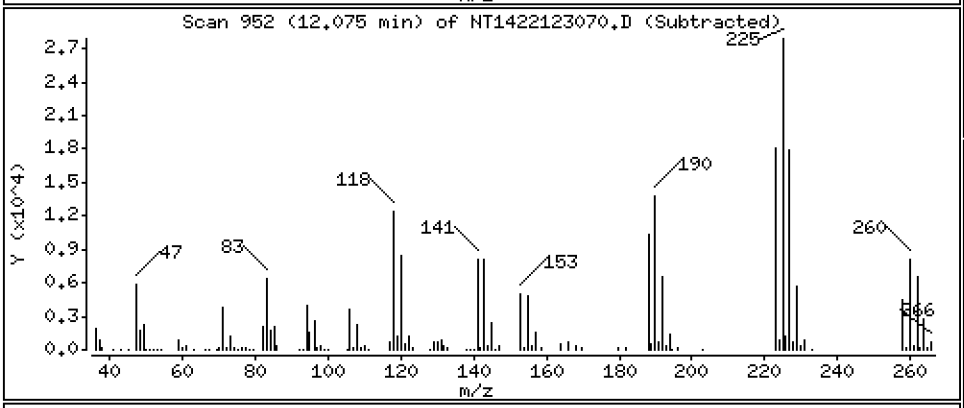
Column phase: ZB-5msi

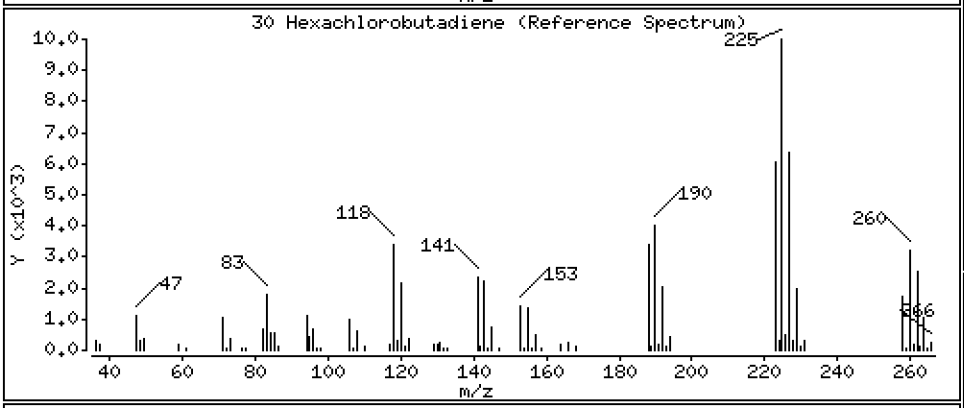
Column diameter: 0.25

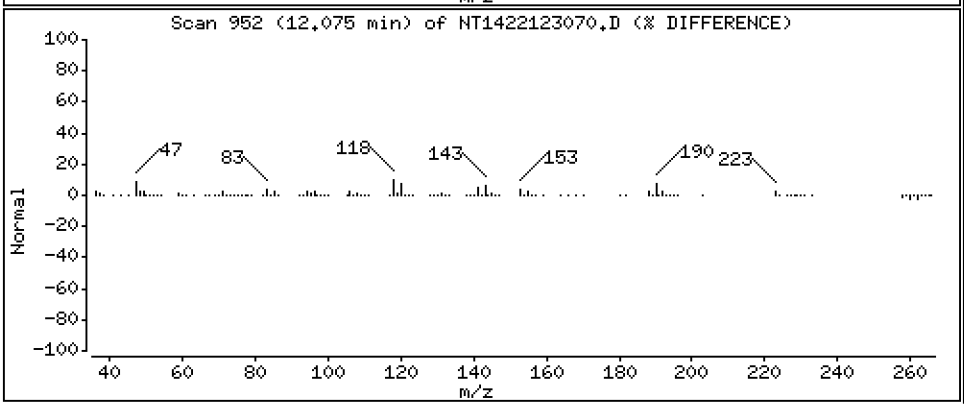
30 Hexachlorobutadiene

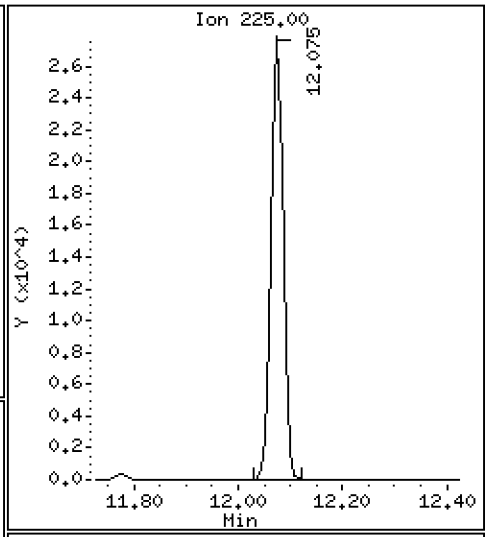
Concentration: 3.463 ug/mL

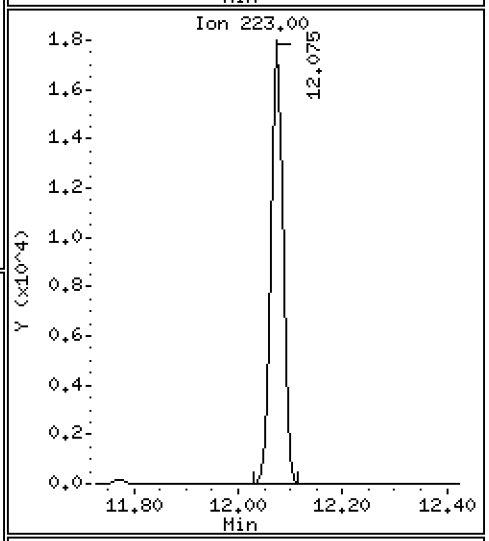


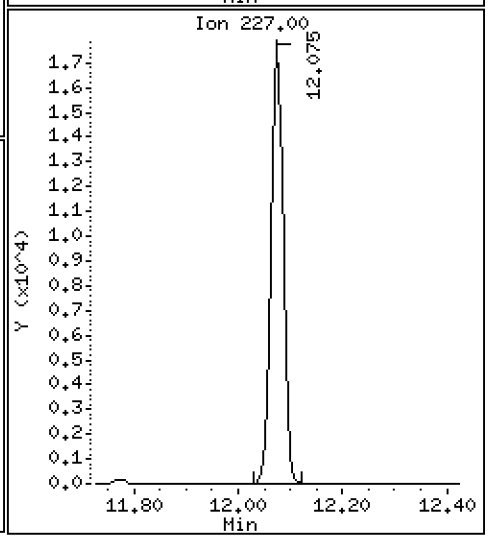












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

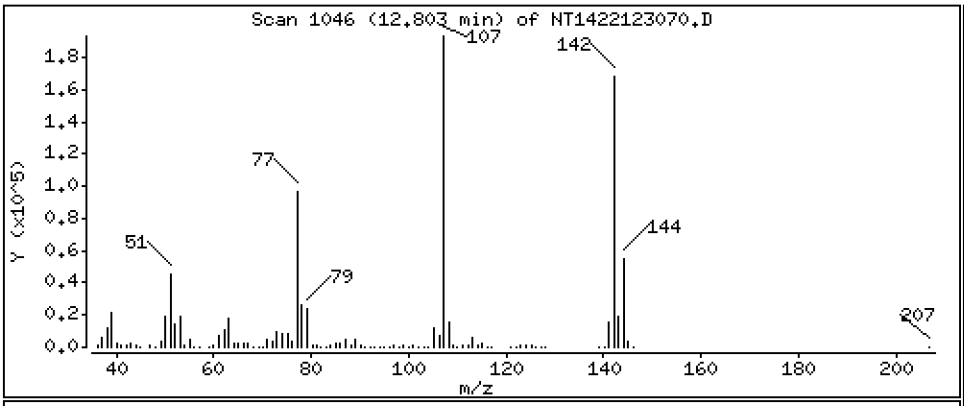
Operator: VTS

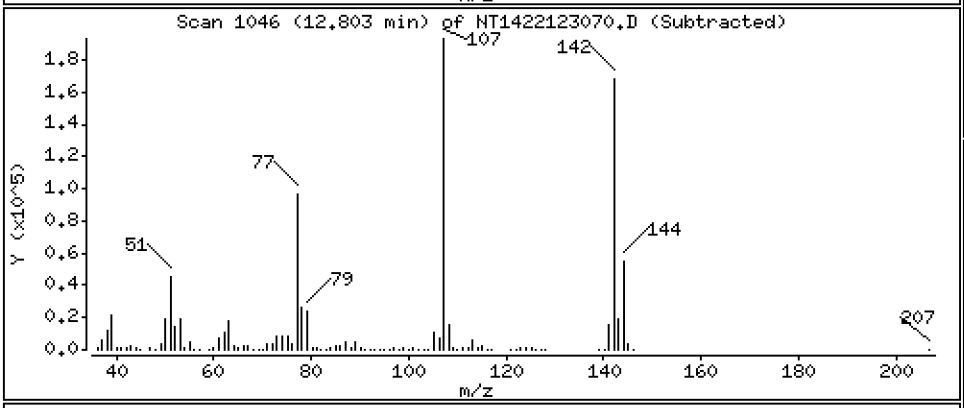
Column phase: ZB-5msi

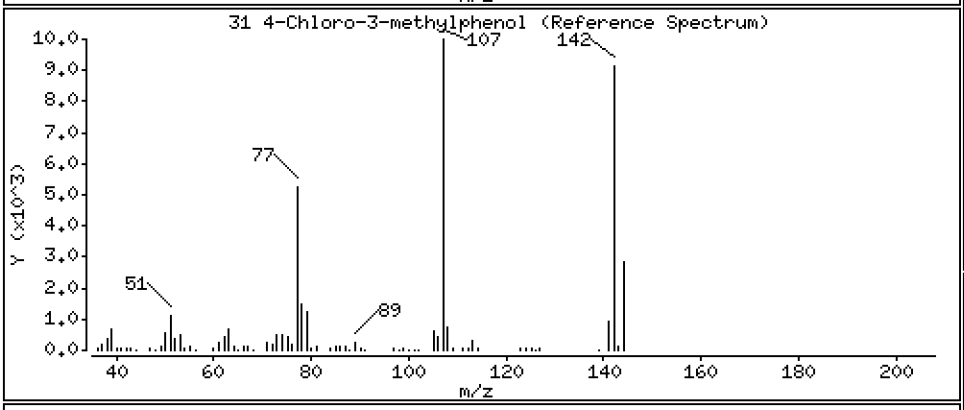
Column diameter: 0.25

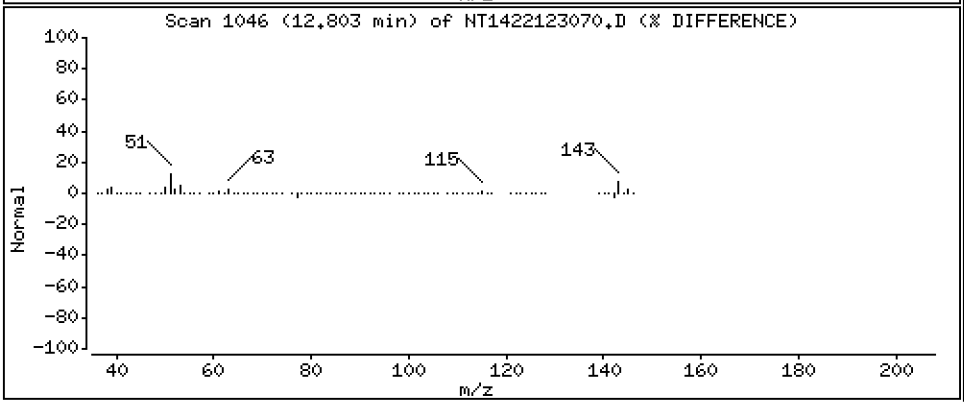
31 4-Chloro-3-methylphenol

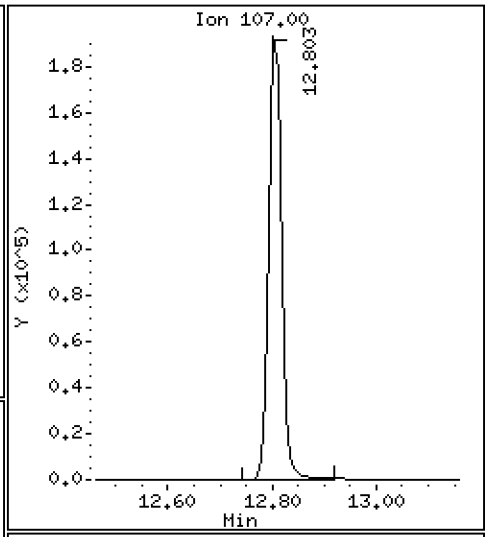
Concentration: 14.52 ug/mL

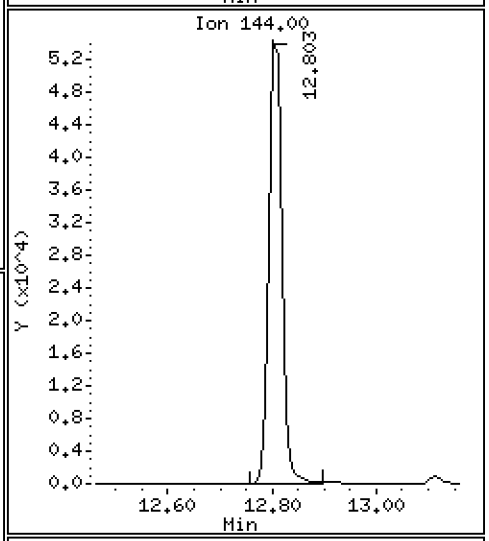


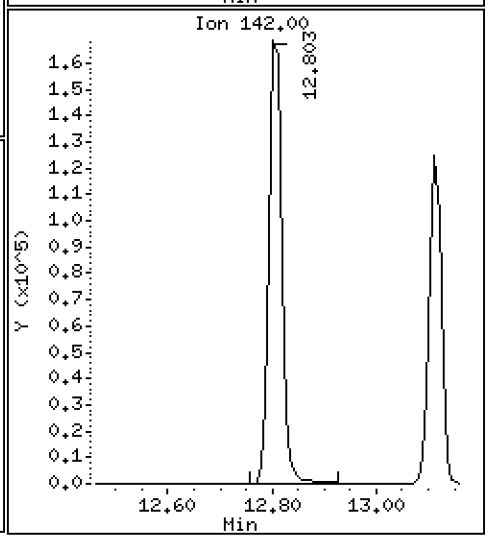












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

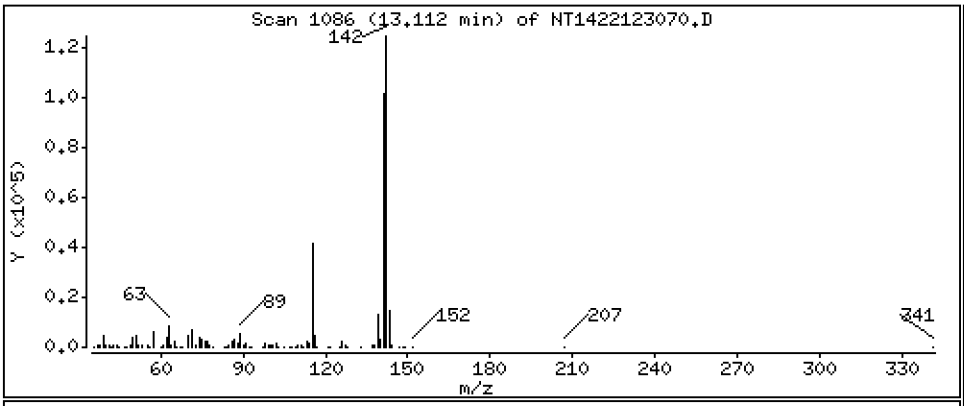
Operator: VTS

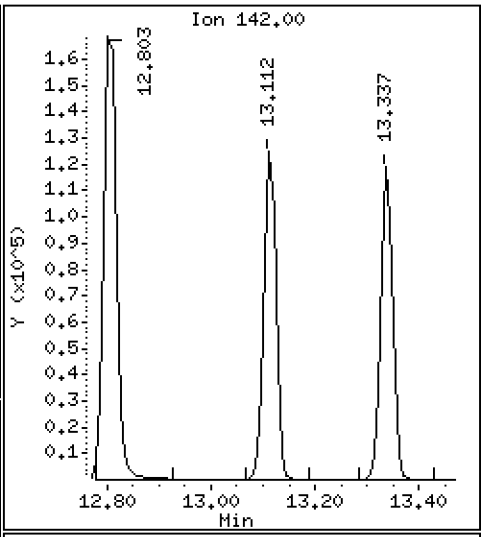
Column phase: ZB-5msi

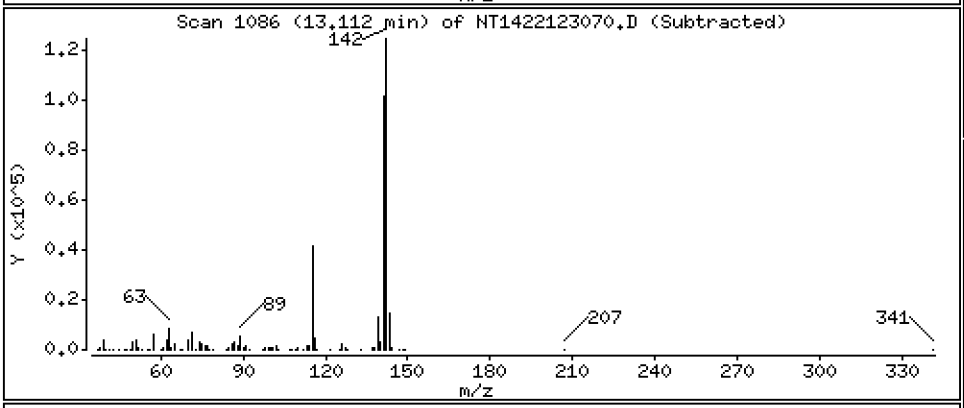
Column diameter: 0.25

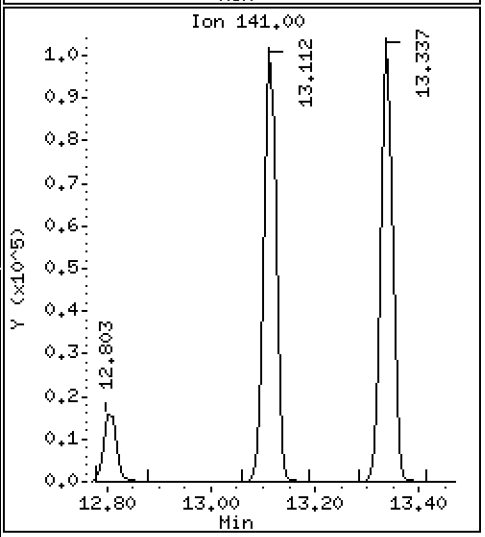
32 2-Methylnaphthalene

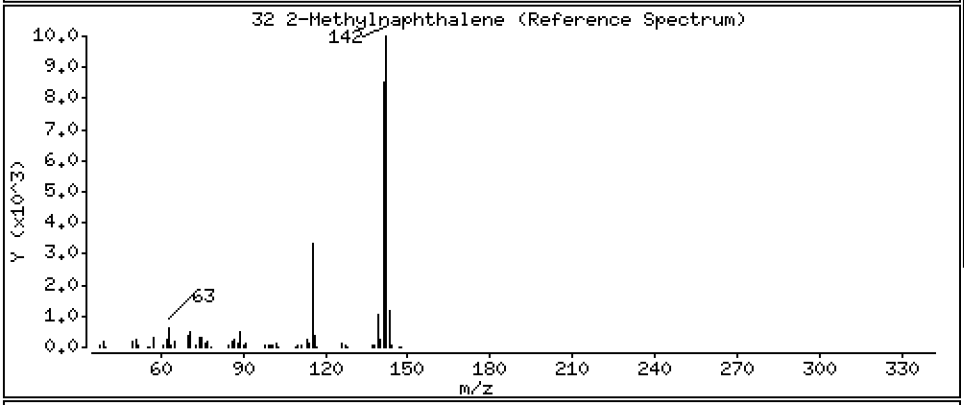
Concentration: 3.451 ug/mL

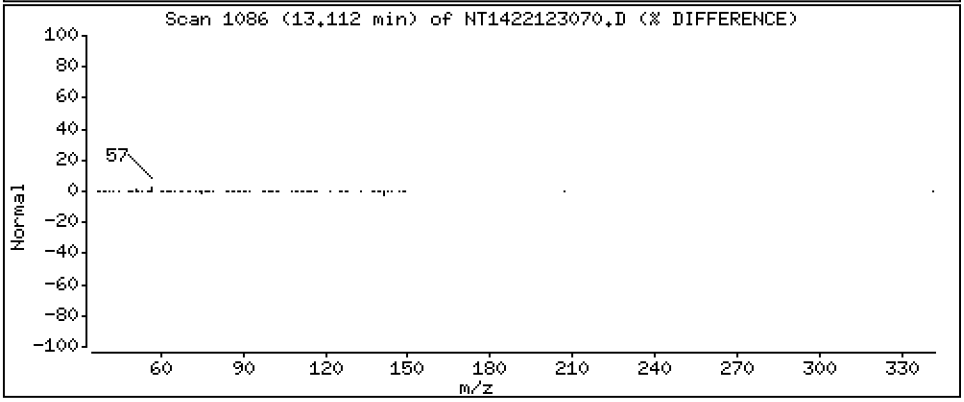












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

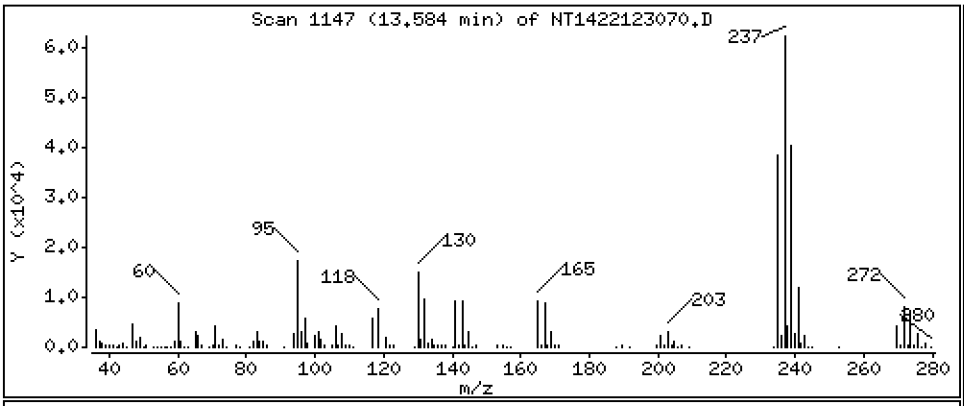
Operator: VTS

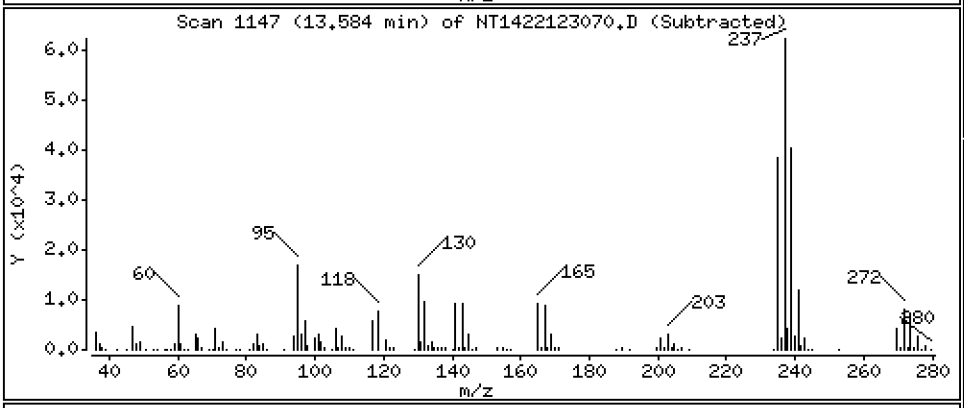
Column phase: ZB-5msi

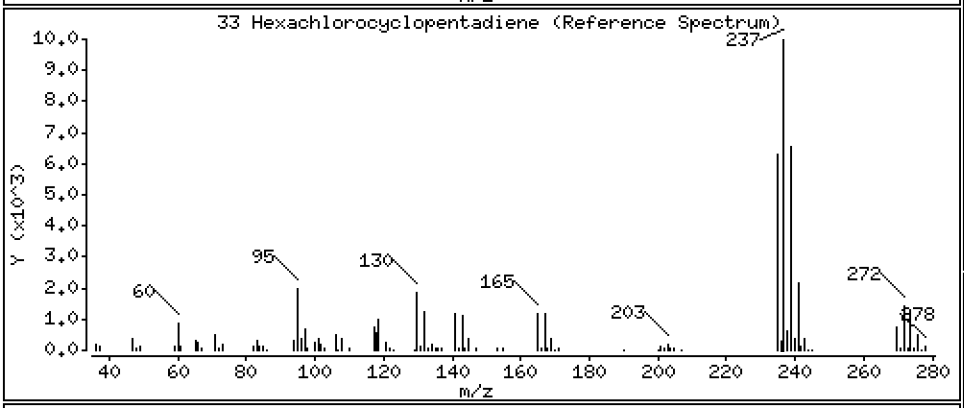
Column diameter: 0.25

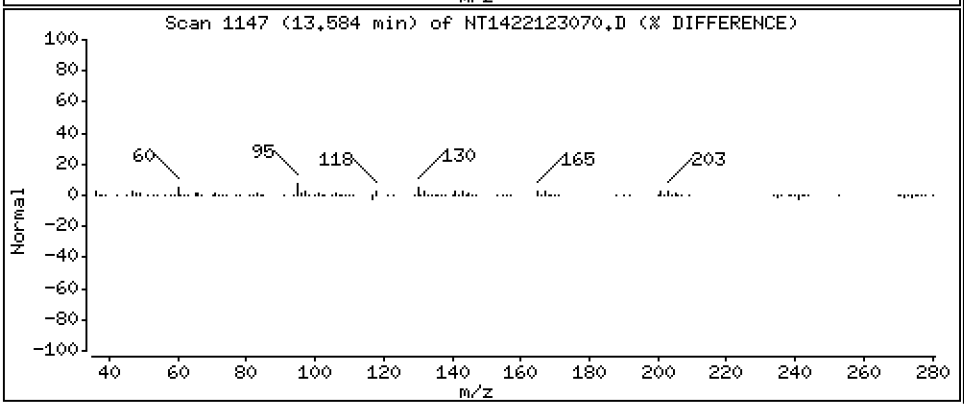
33 Hexachlorocyclopentadiene

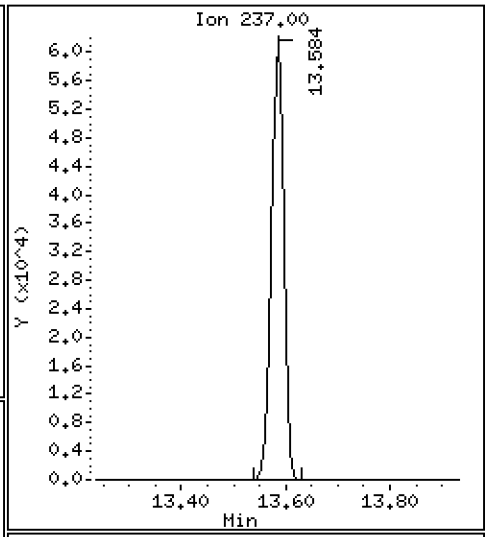
Concentration: 7.918 ug/mL

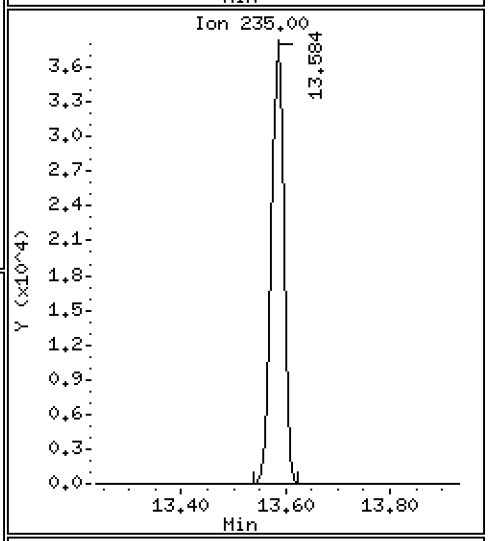


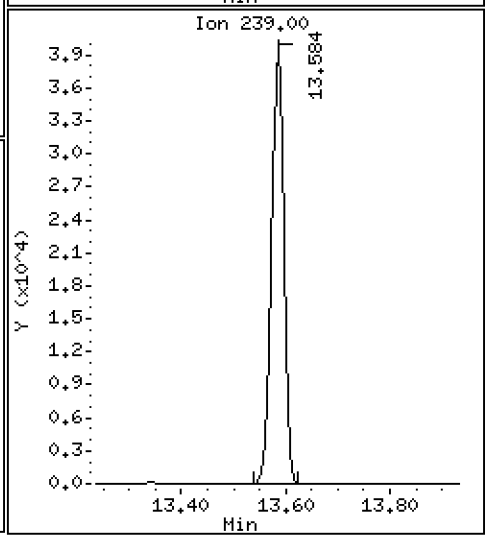












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

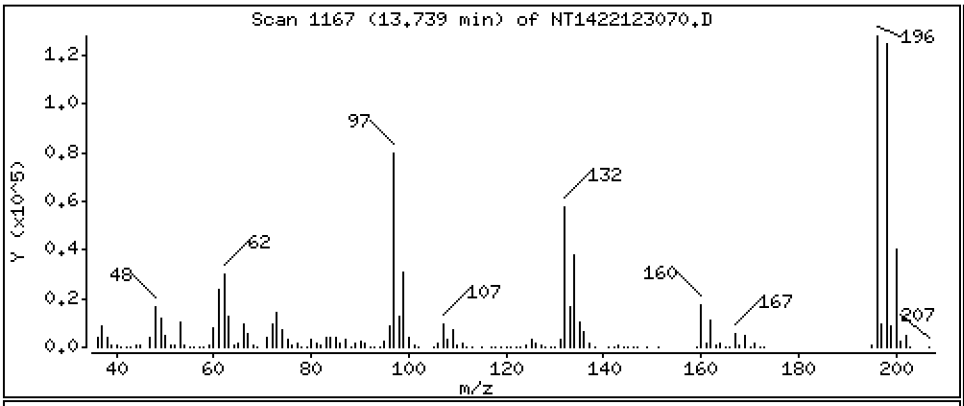
Operator: VTS

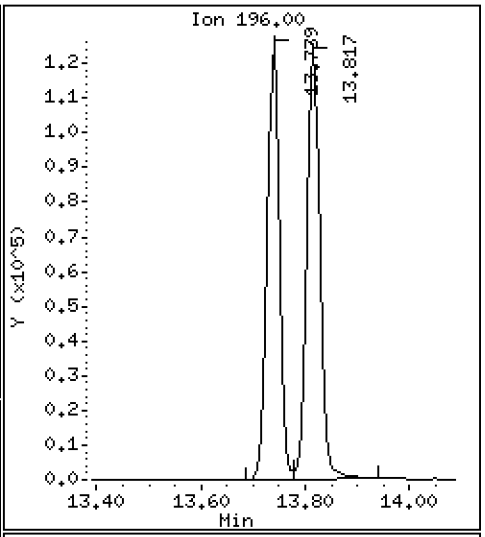
Column phase: ZB-5msi

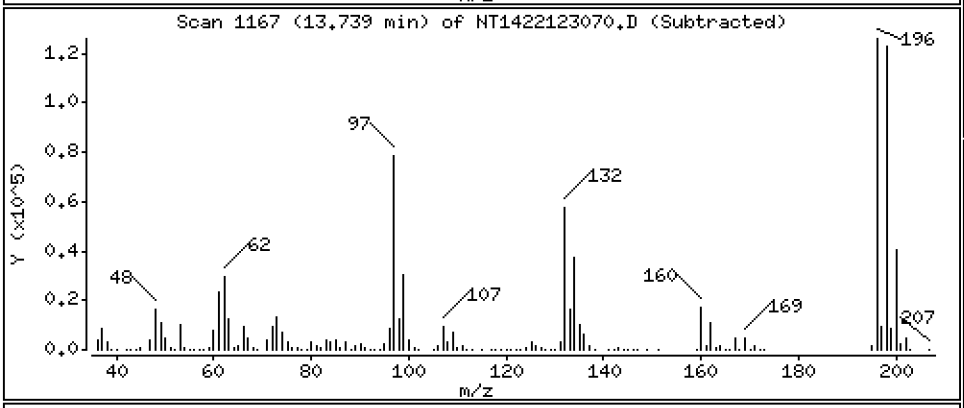
Column diameter: 0.25

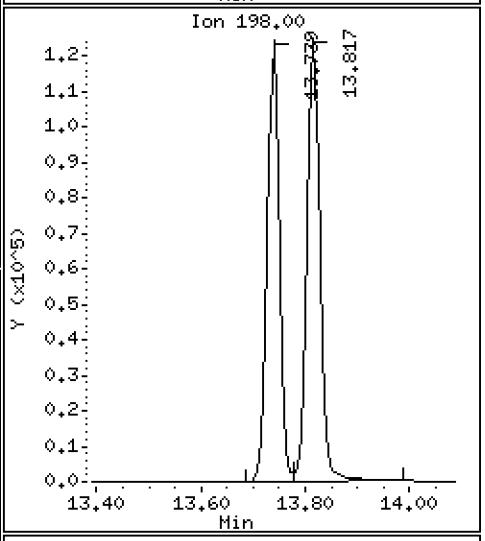
34 2,4,6-Trichlorophenol

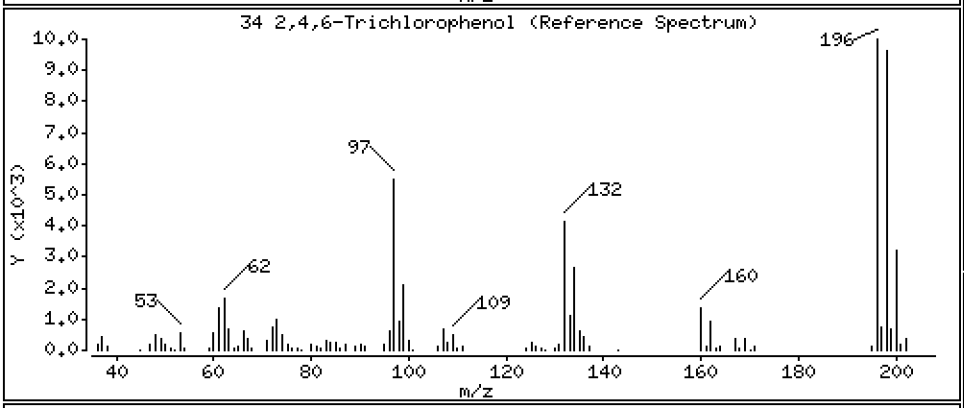
Concentration: 14.52 ug/mL

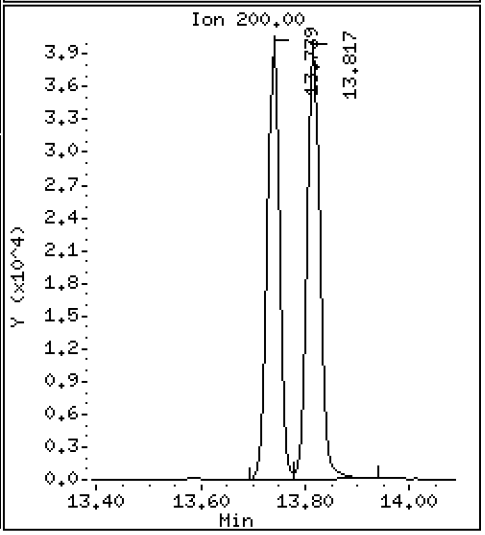


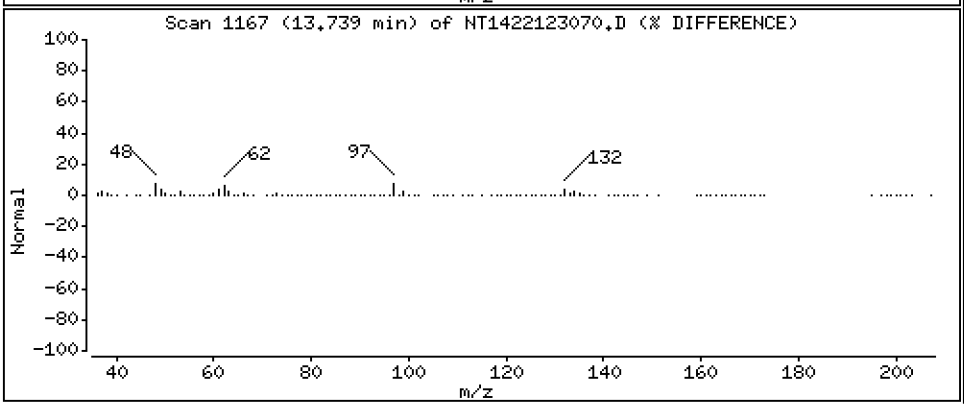












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

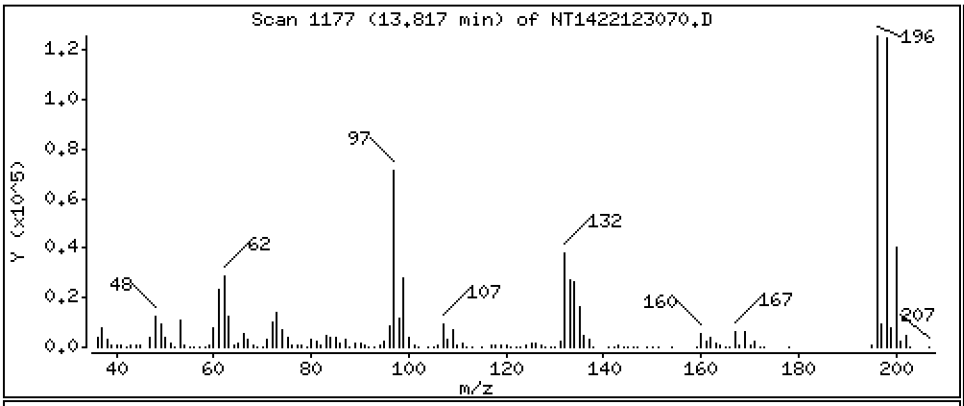
Operator: VTS

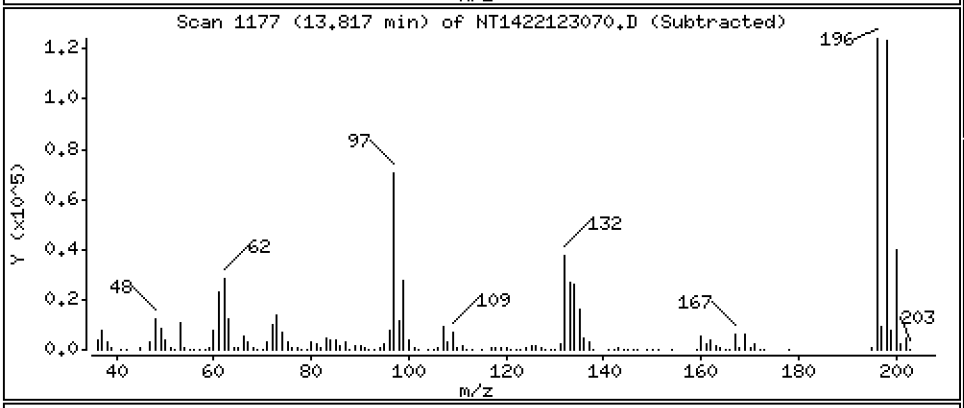
Column phase: ZB-5msi

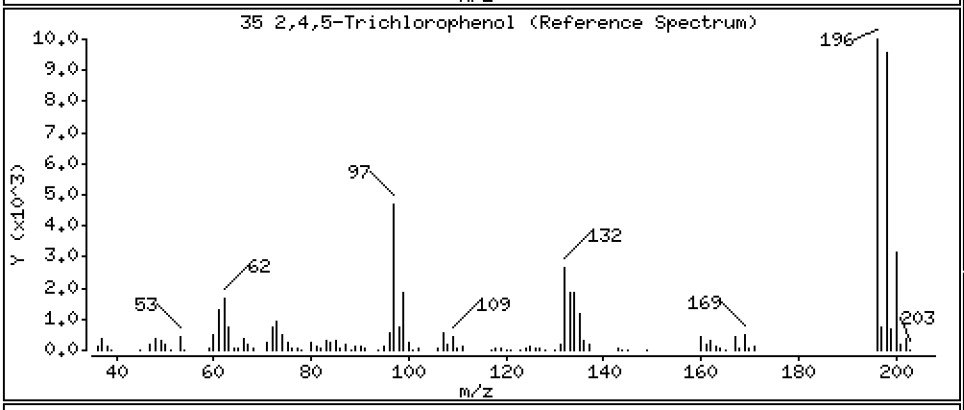
Column diameter: 0.25

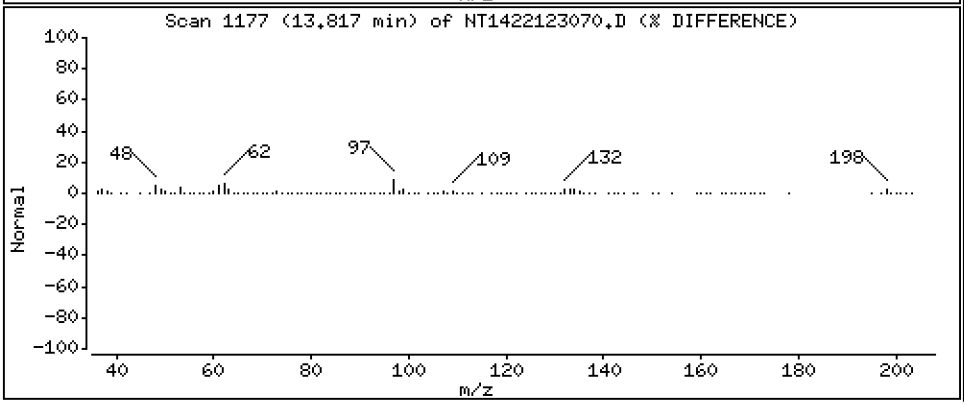
35 2,4,5-Trichlorophenol

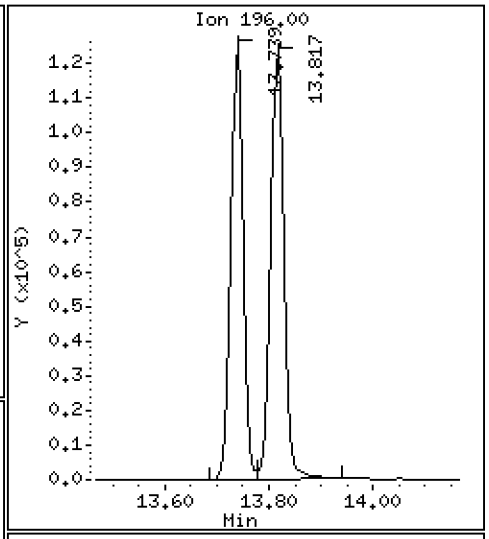
Concentration: 13.46 ug/mL

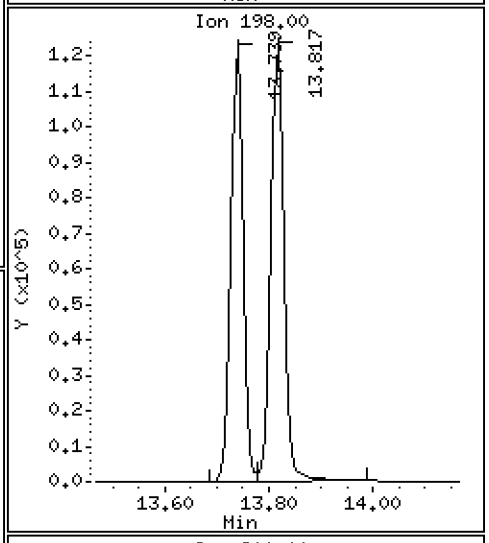


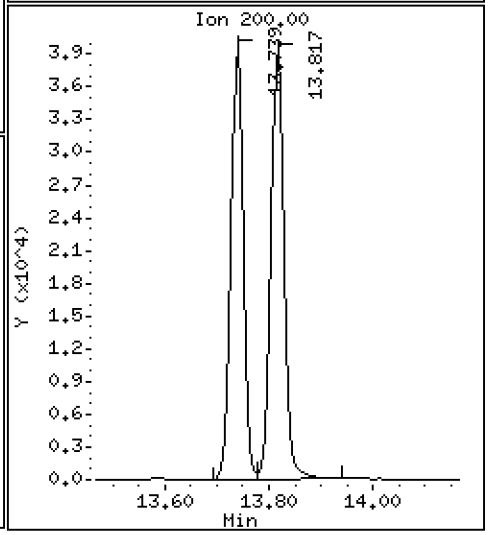












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

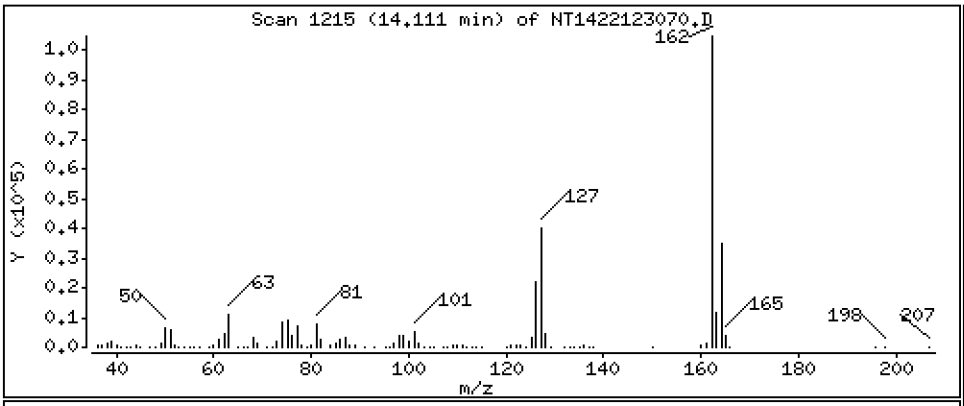
Operator: VTS

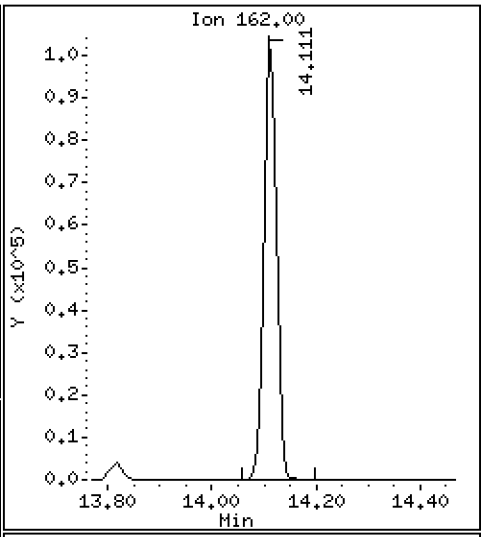
Column phase: ZB-5msi

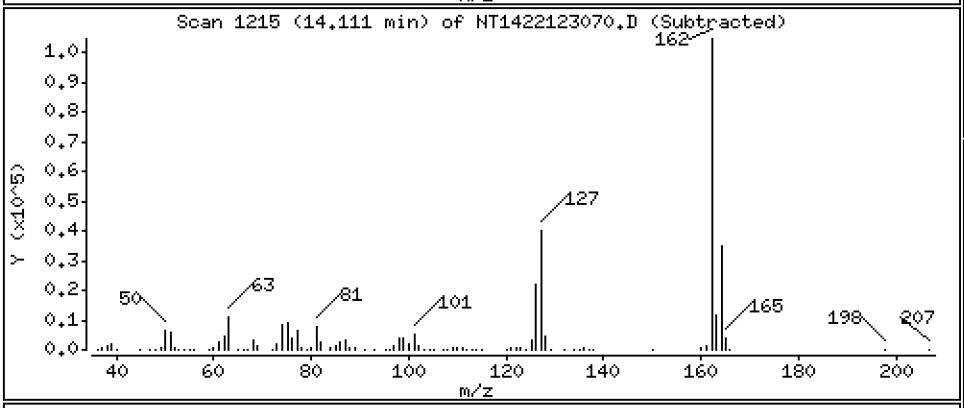
Column diameter: 0.25

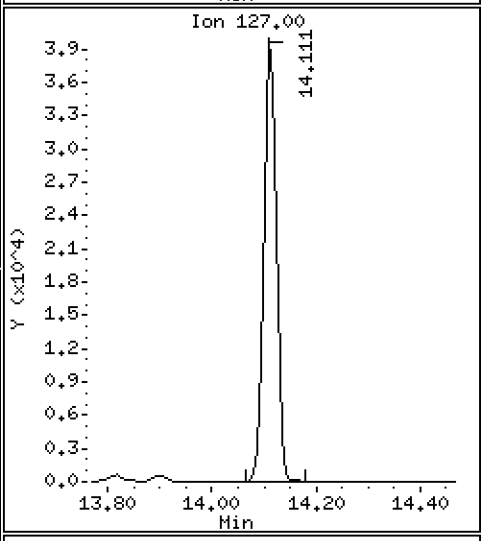
37 2-Chloronaphthalene

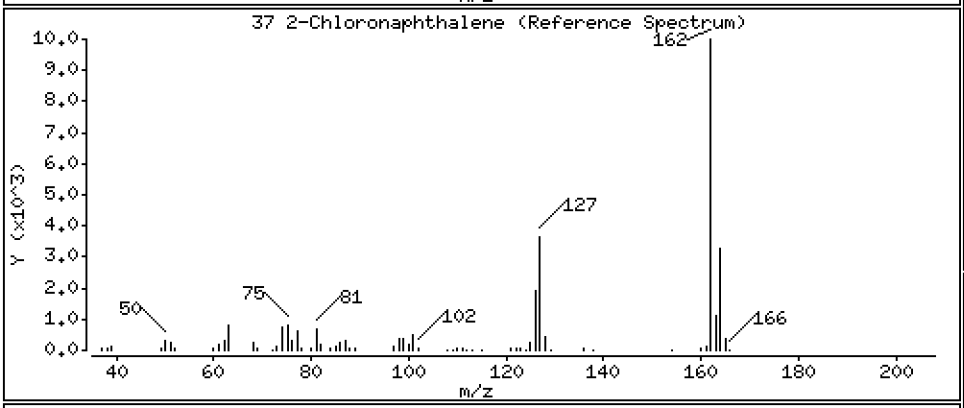
Concentration: 3.643 ug/mL

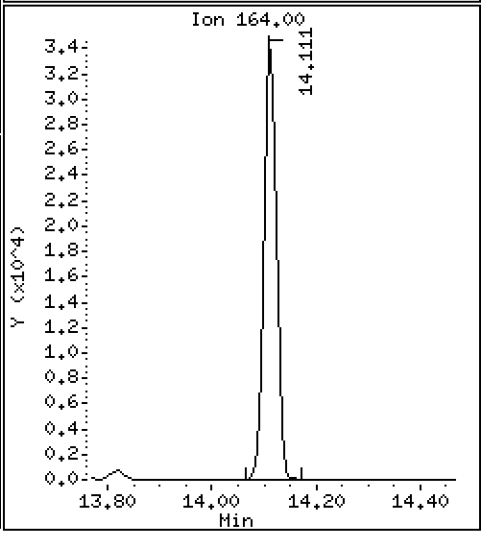


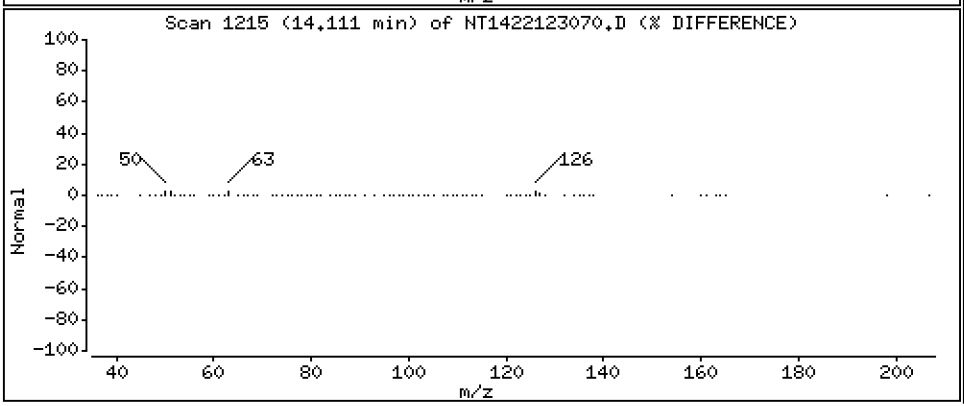












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

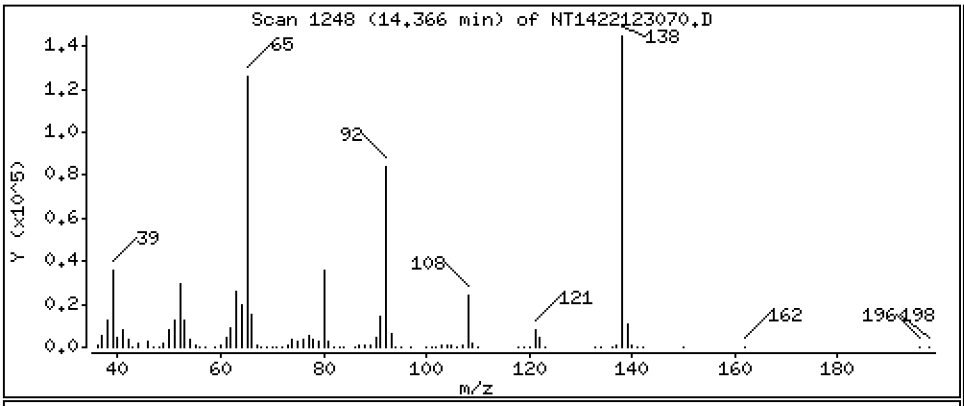
Operator: VTS

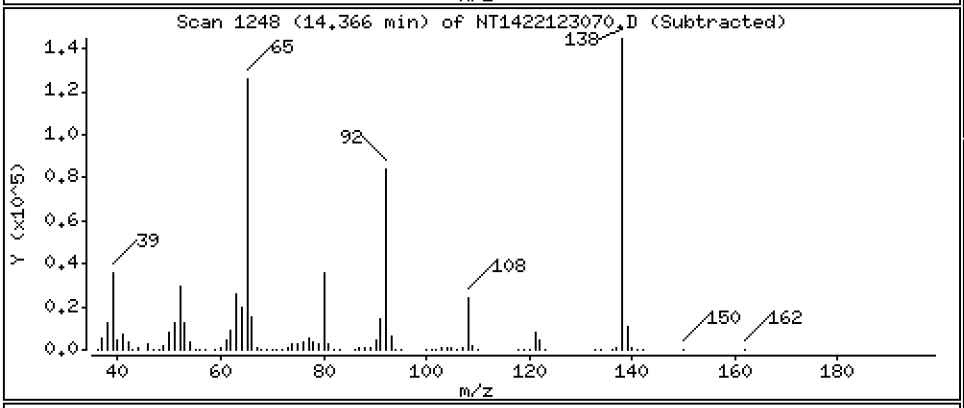
Column phase: ZB-5msi

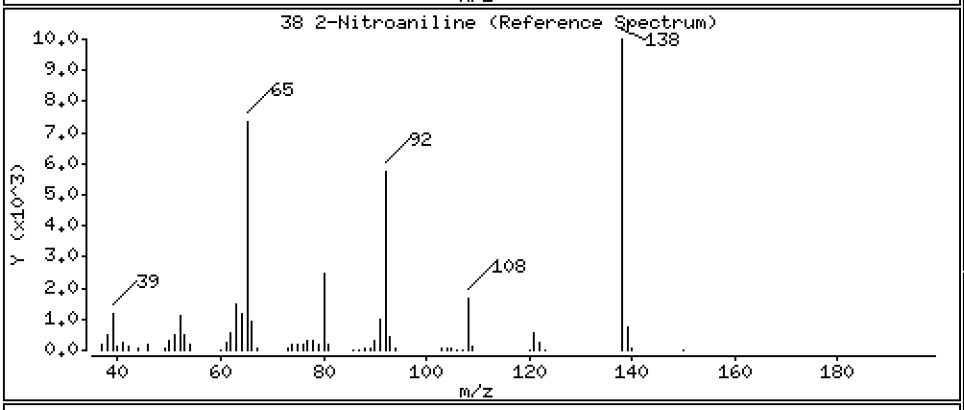
Column diameter: 0.25

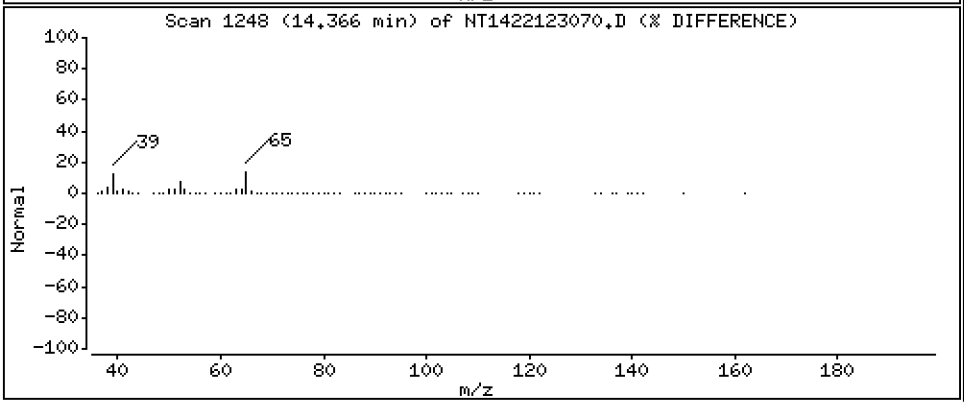
38 2-Nitroaniline

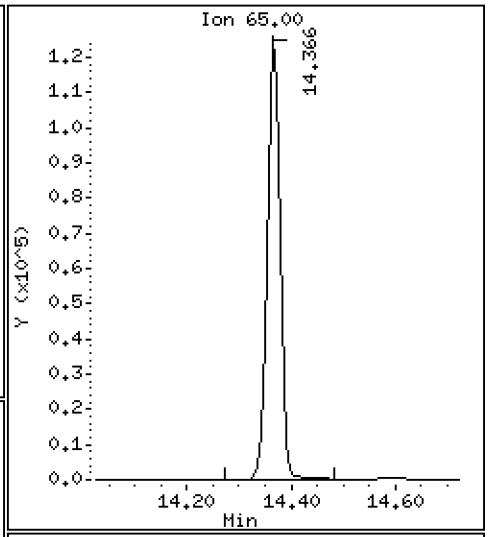
Concentration: 17.20 ug/mL

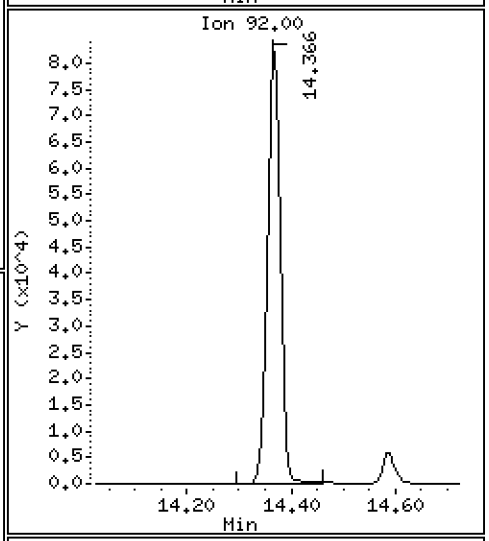


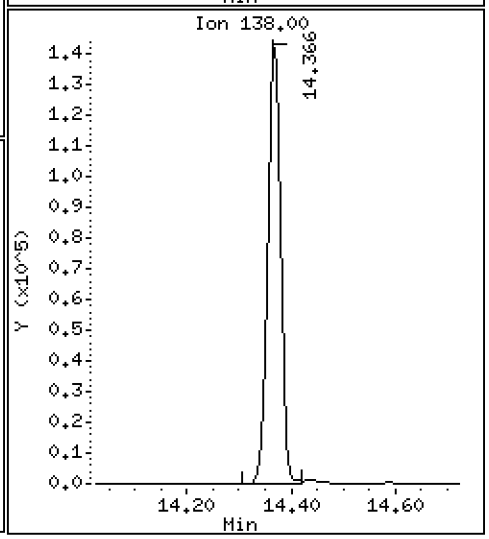












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

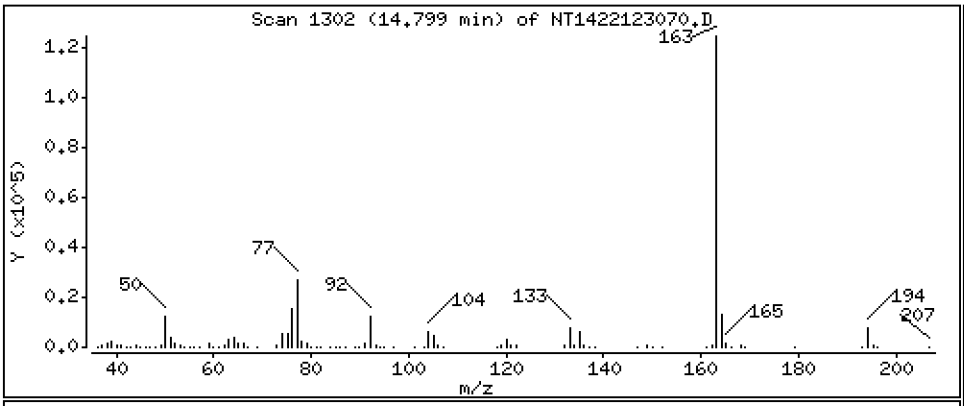
Operator: VTS

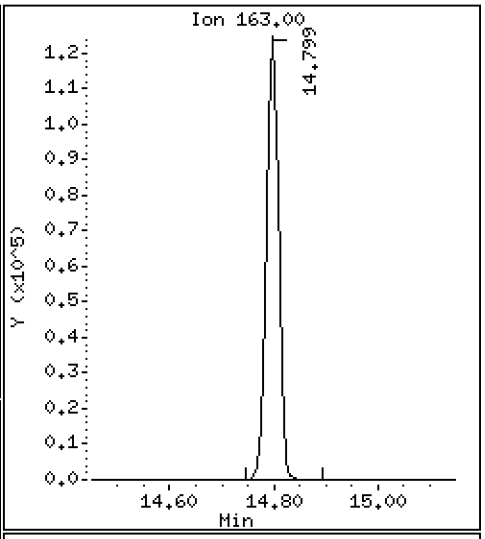
Column phase: ZB-5msi

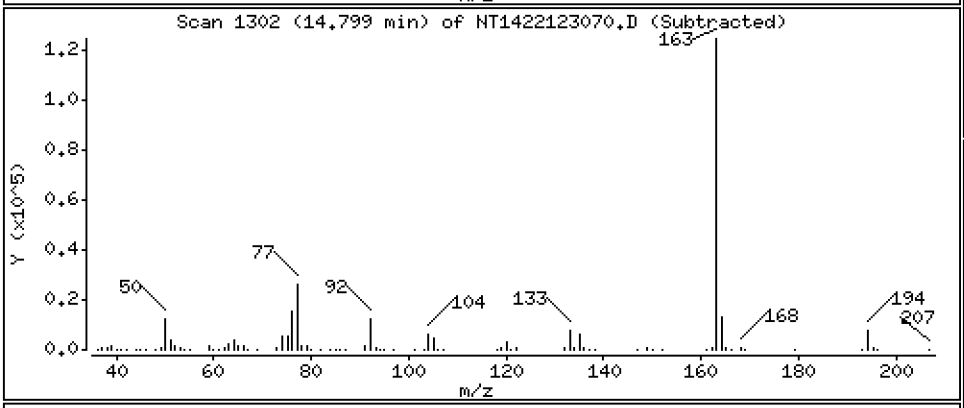
Column diameter: 0.25

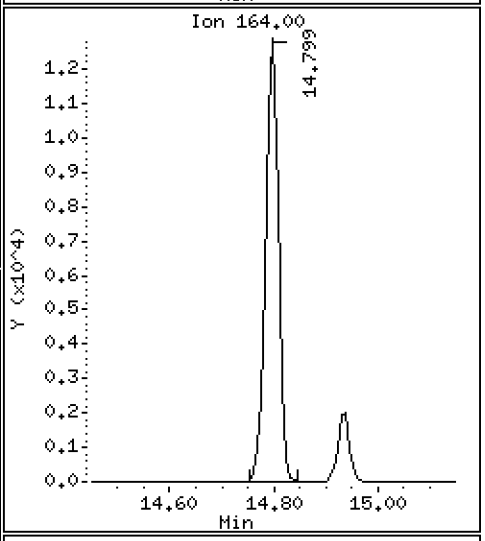
39 Dimethylphthalate

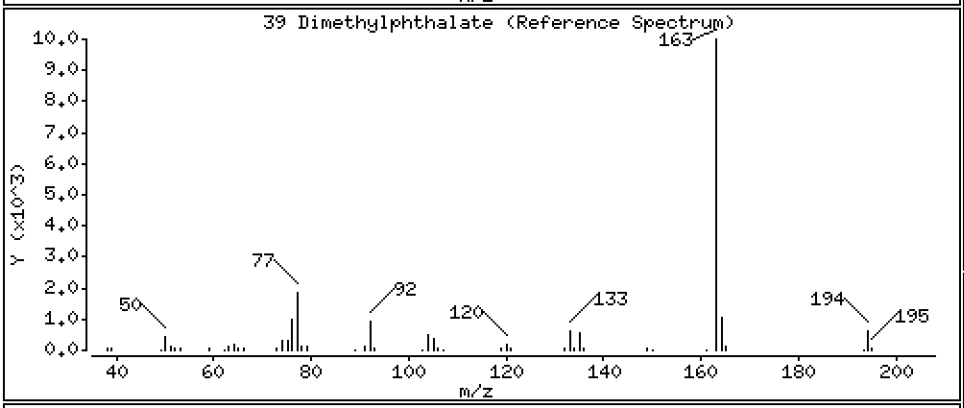
Concentration: 4.275 ug/mL

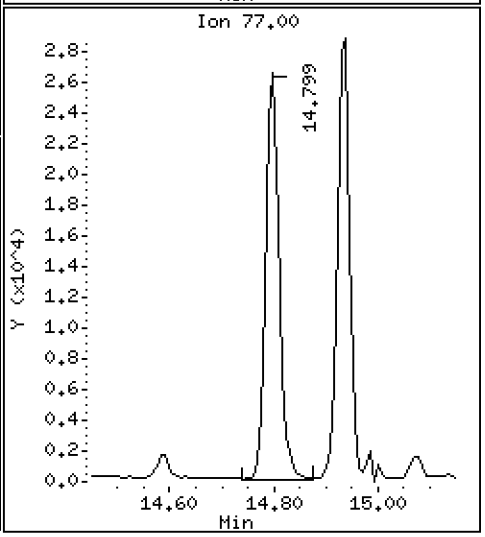


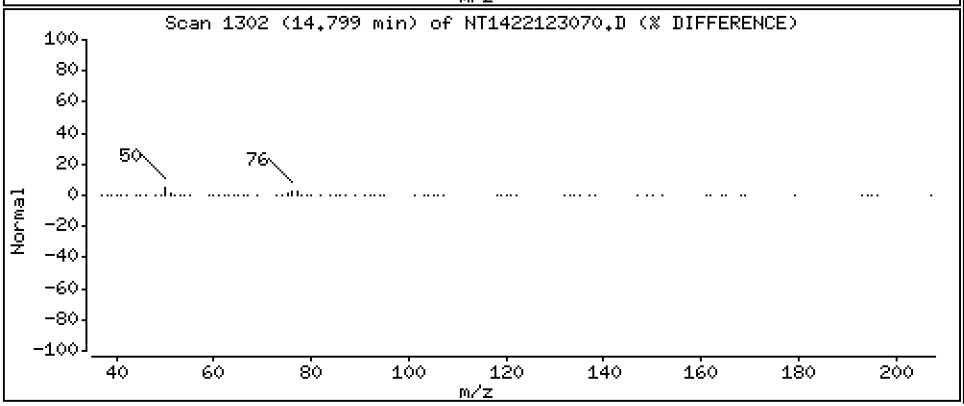












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

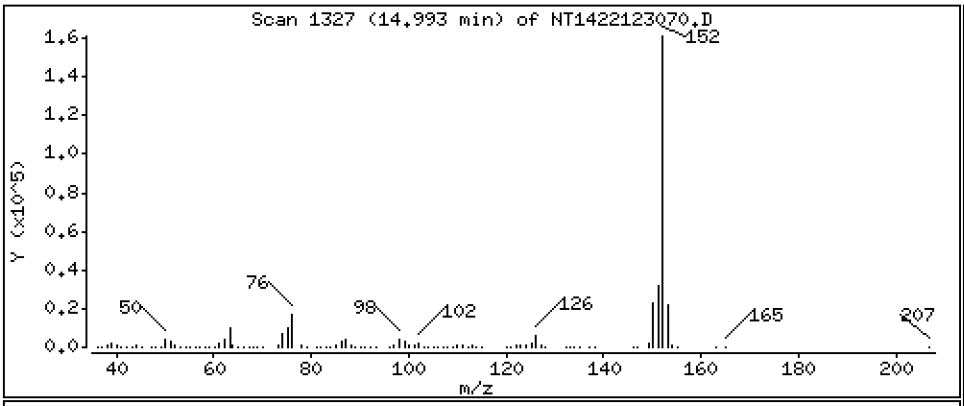
Operator: VTS

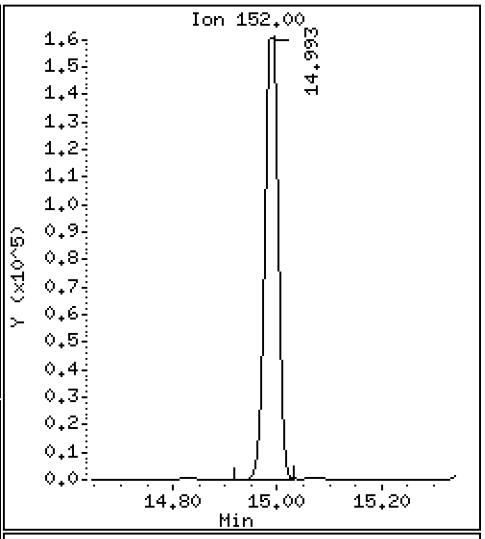
Column phase: ZB-5msi

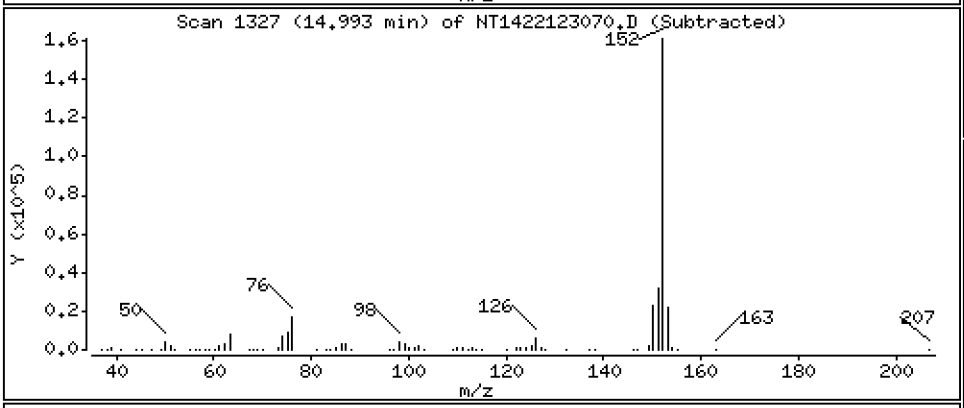
Column diameter: 0.25

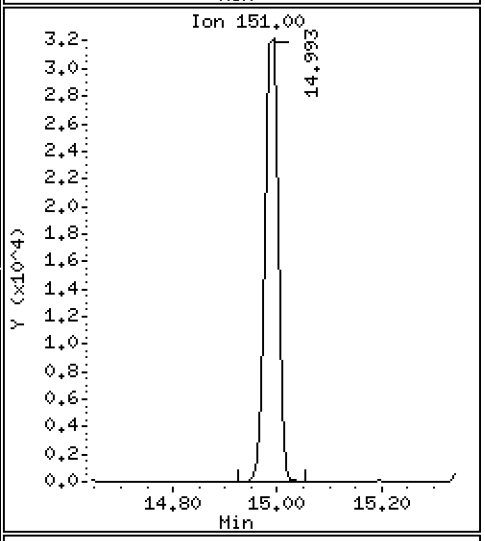
40 Acenaphthylene

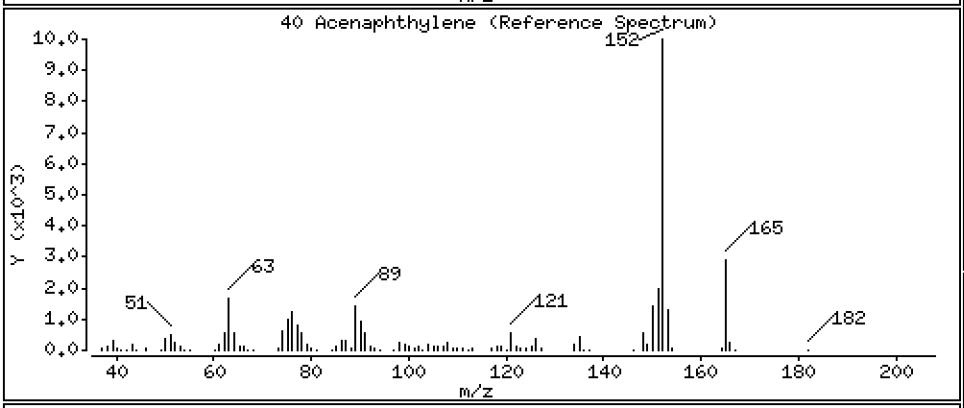
Concentration: 3.846 ug/mL

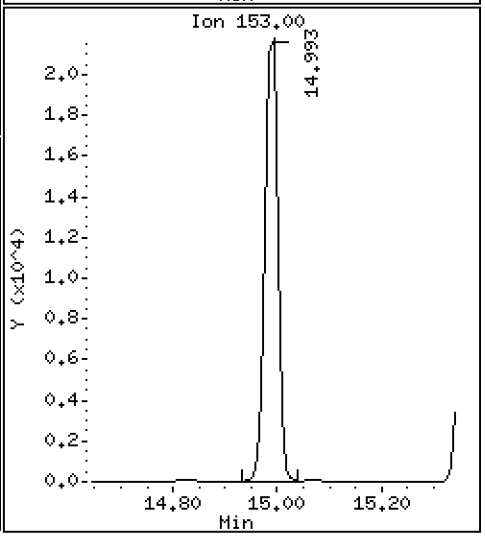


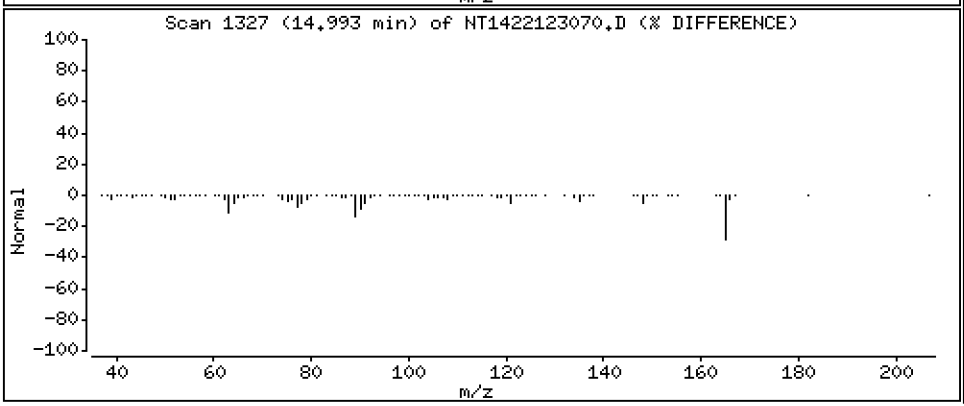












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

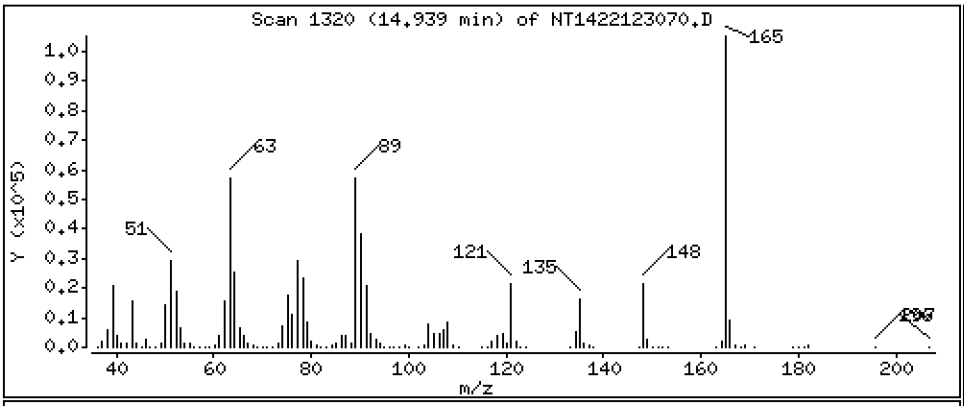
Operator: VTS

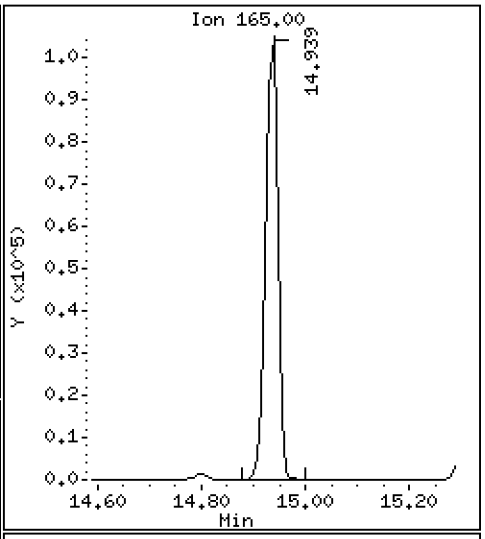
Column phase: ZB-5msi

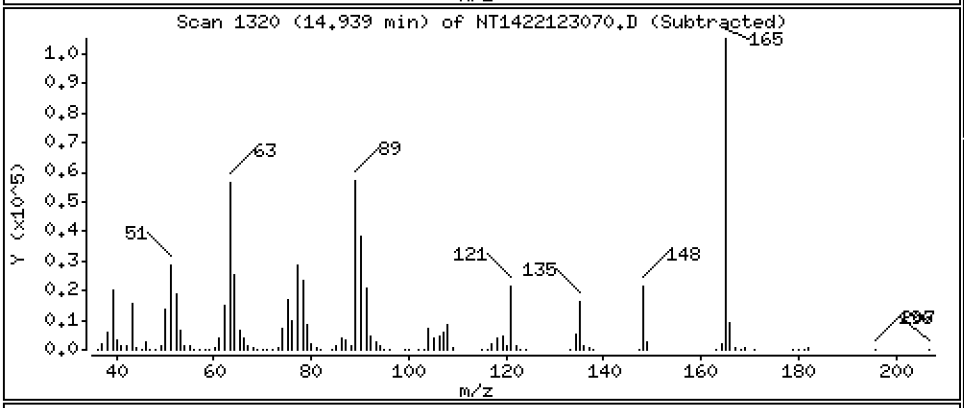
Column diameter: 0.25

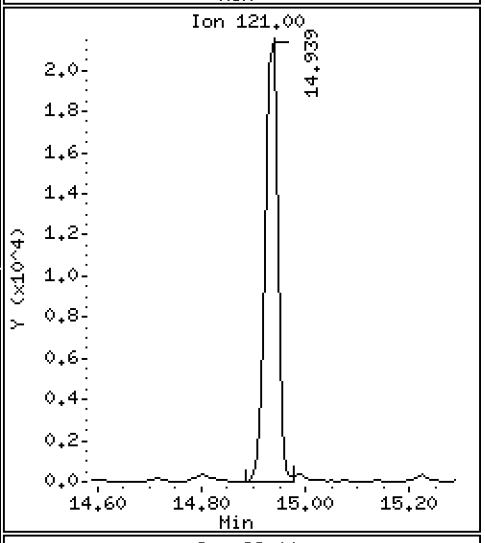
41 2,6-Dinitrotoluene

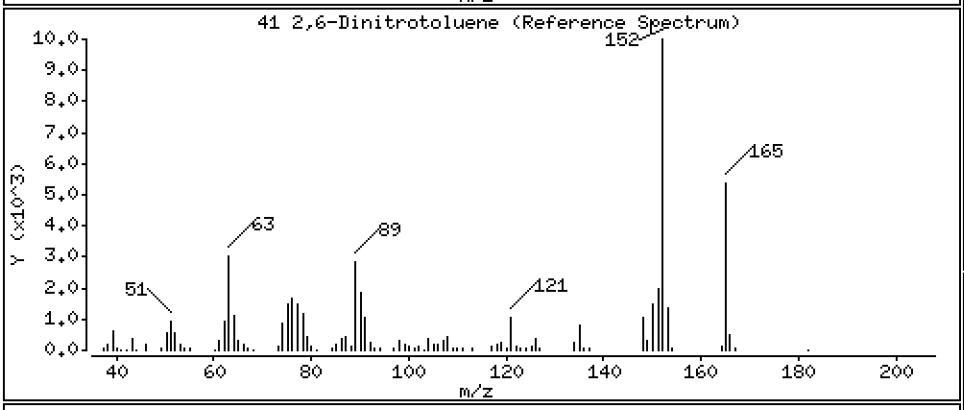
Concentration: 15.92 ug/mL

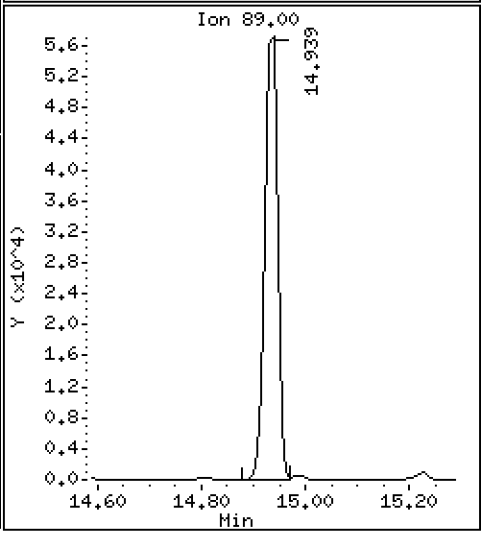


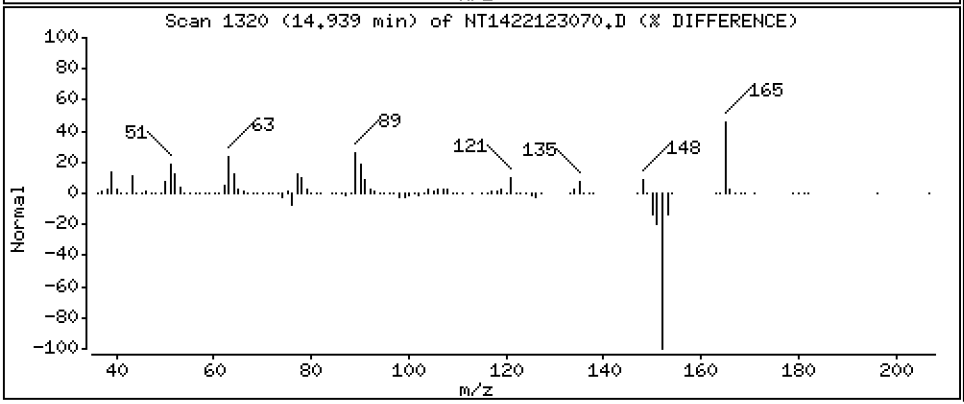












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

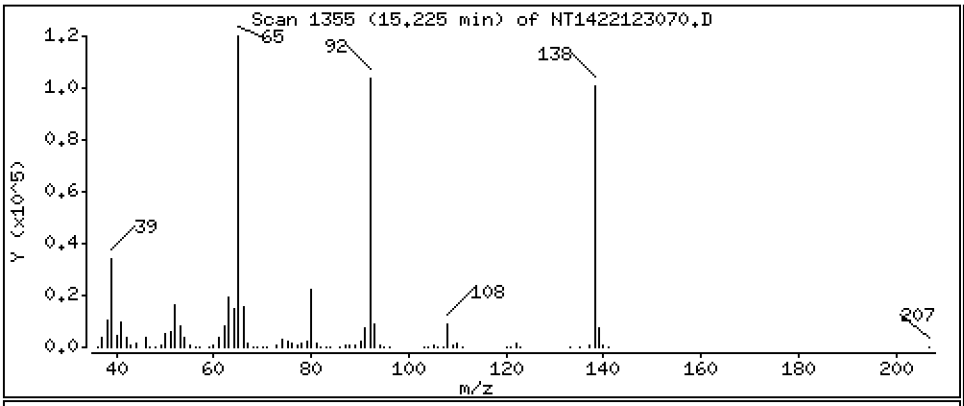
Operator: VTS

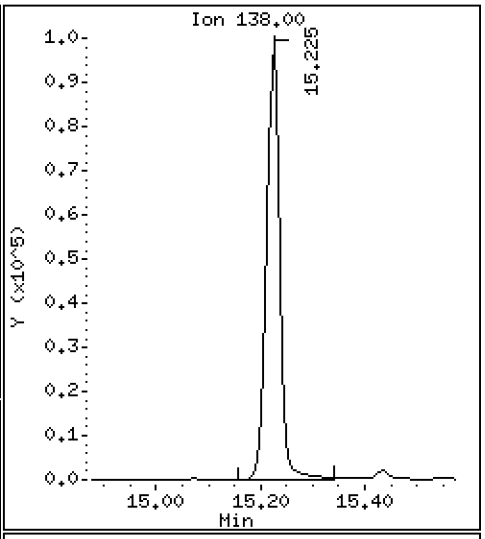
Column phase: ZB-5msi

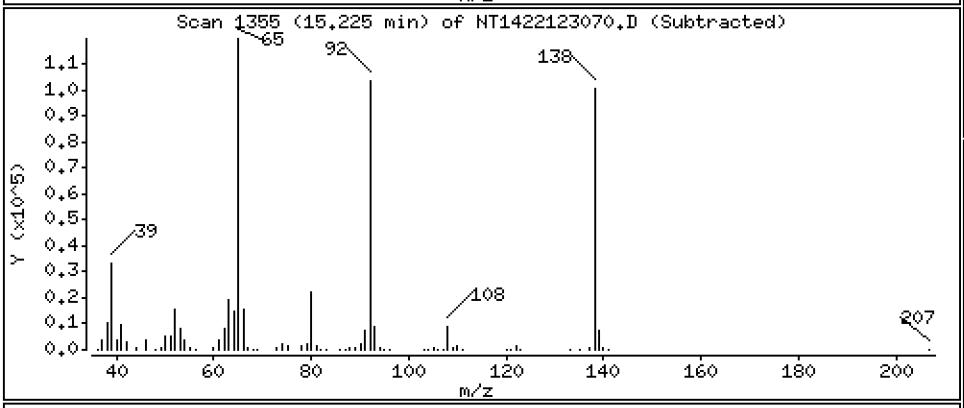
Column diameter: 0.25

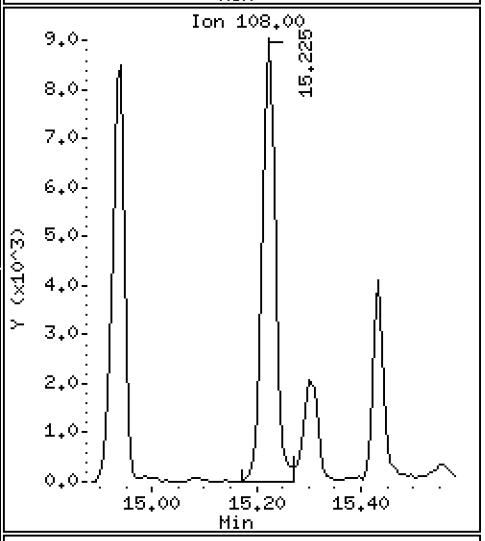
43 3-Nitroaniline

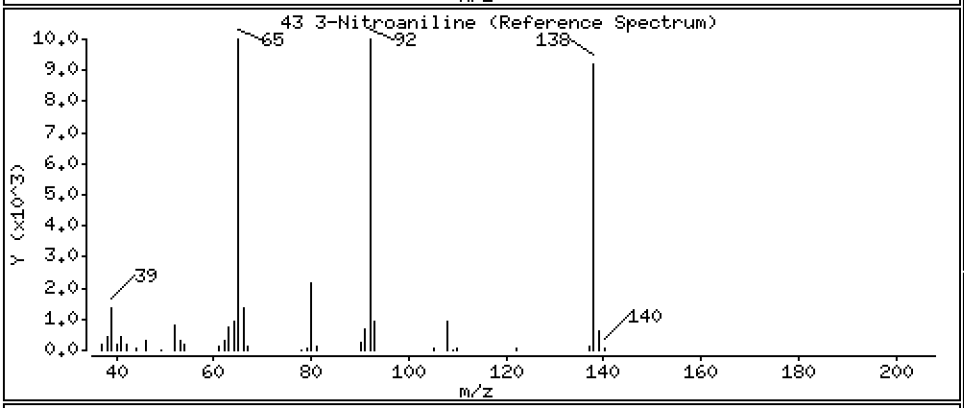
Concentration: 13.27 ug/mL

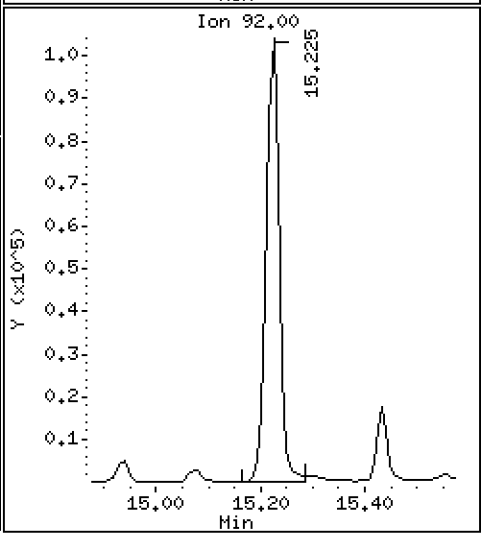


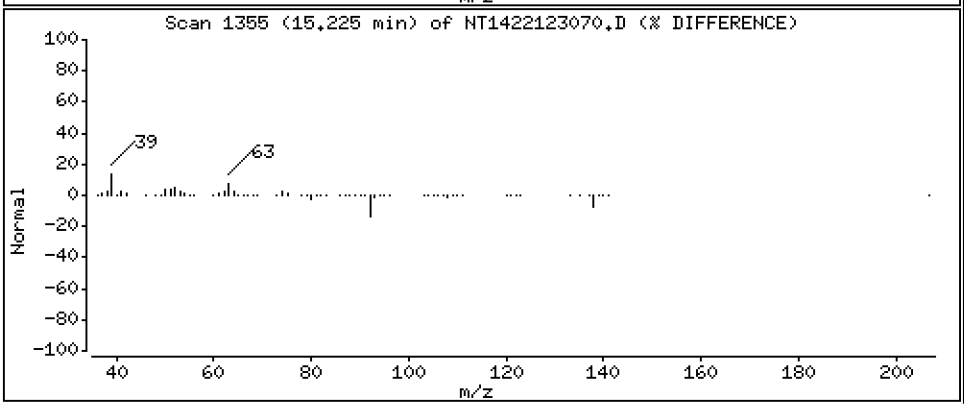












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

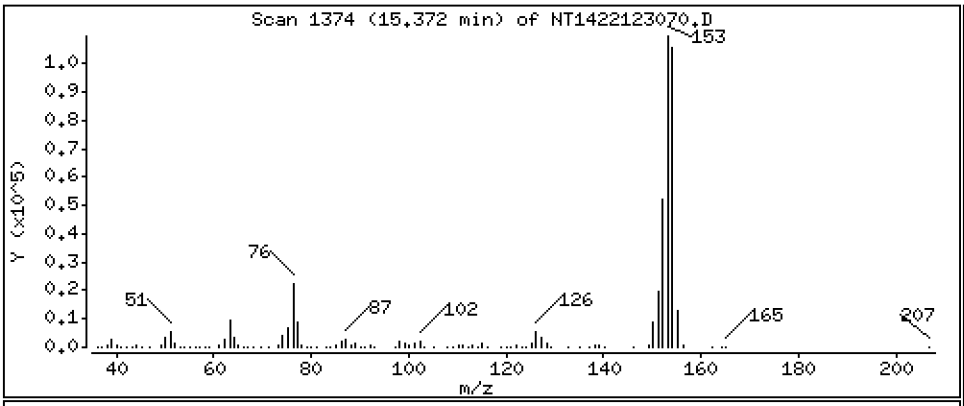
Operator: VTS

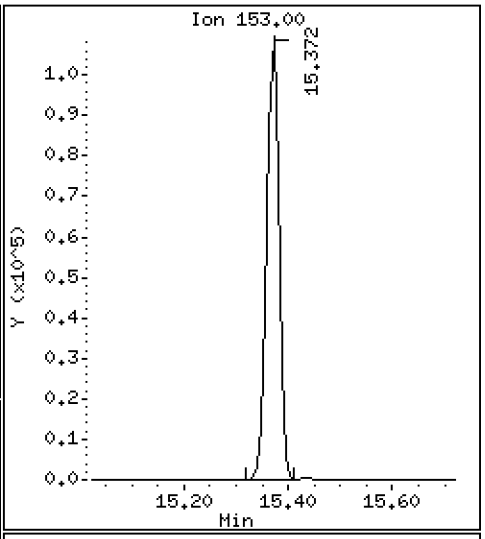
Column phase: ZB-5msi

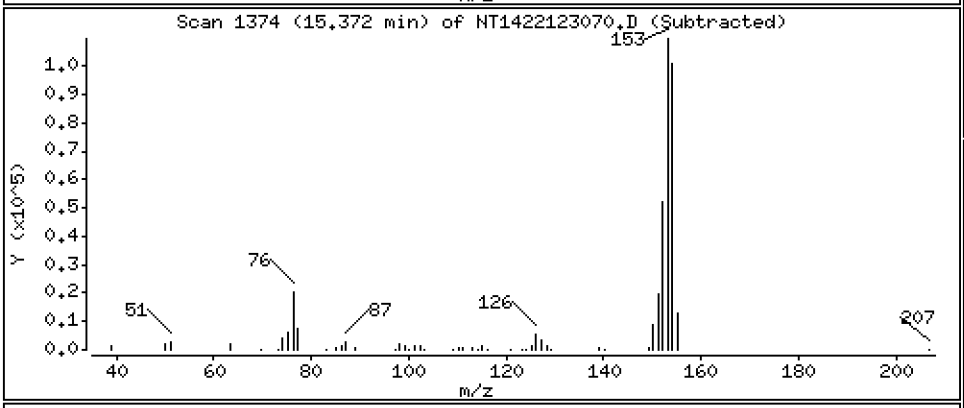
Column diameter: 0.25

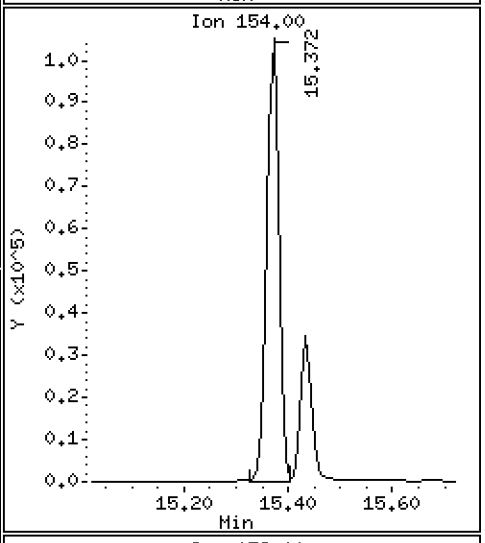
44 Acenaphthene

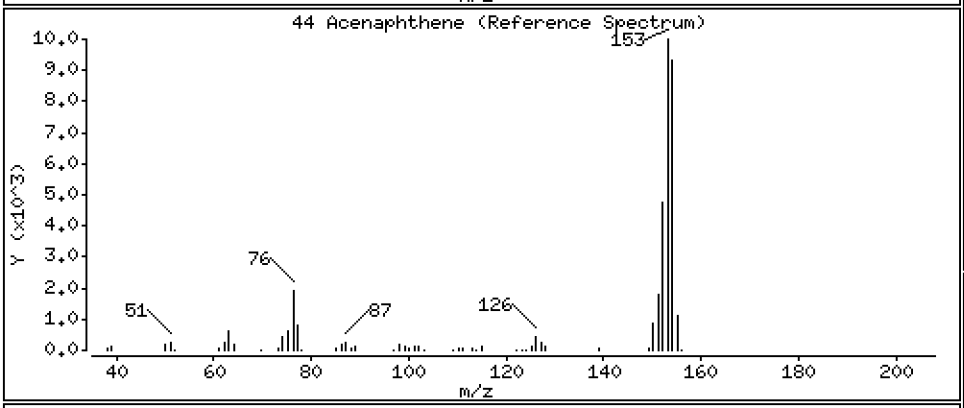
Concentration: 3.917 ug/mL

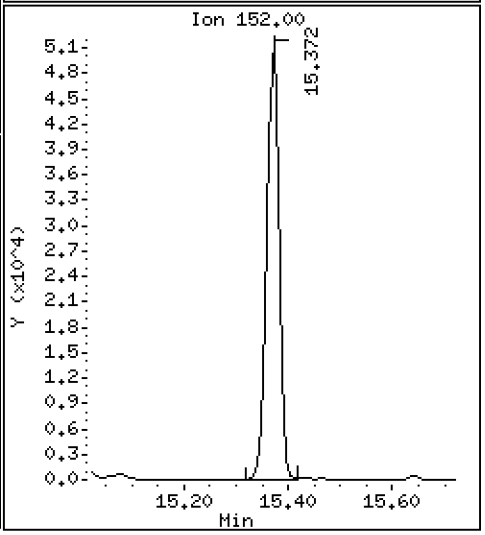


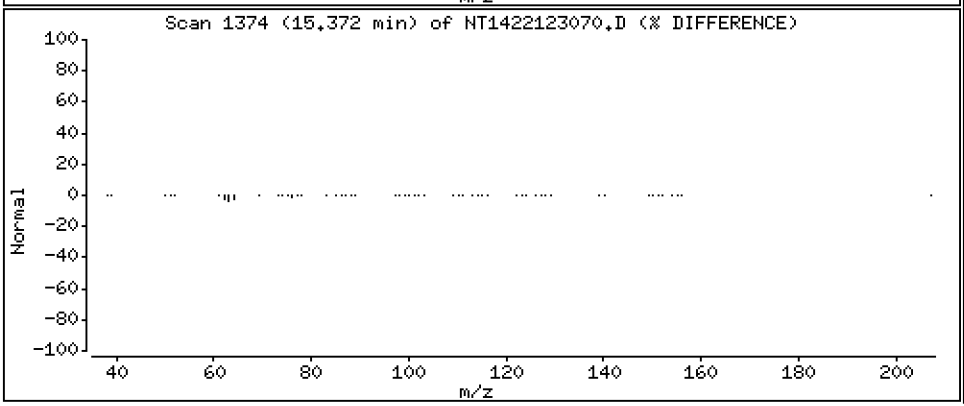












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

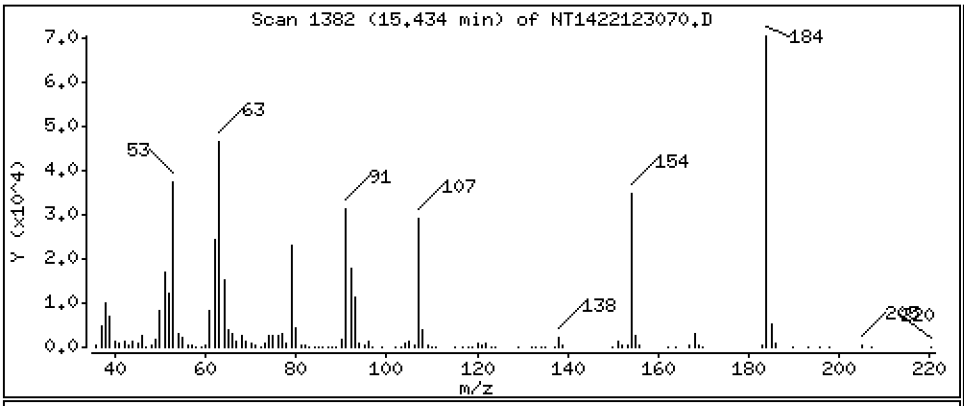
Operator: VTS

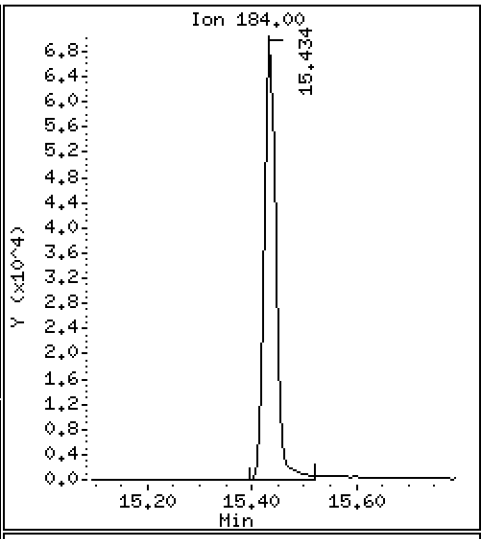
Column phase: ZB-5msi

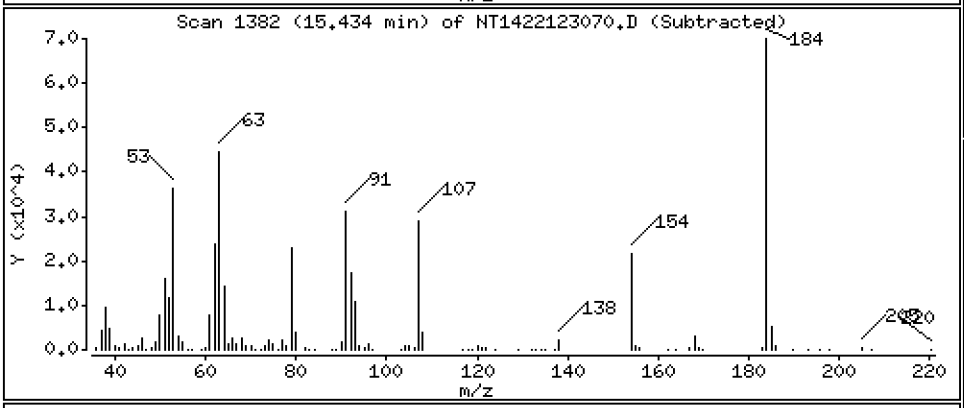
Column diameter: 0.25

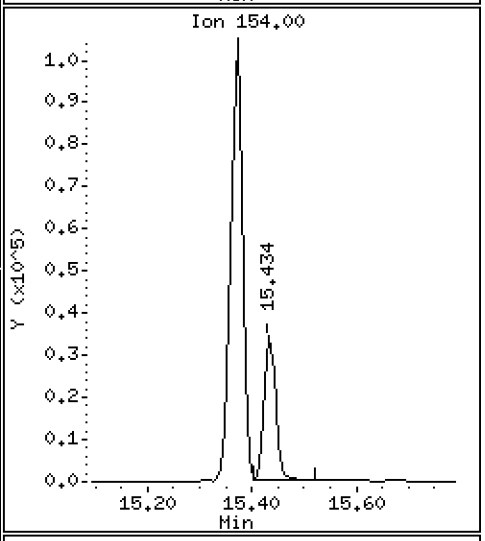
45 2,4-Dinitrophenol

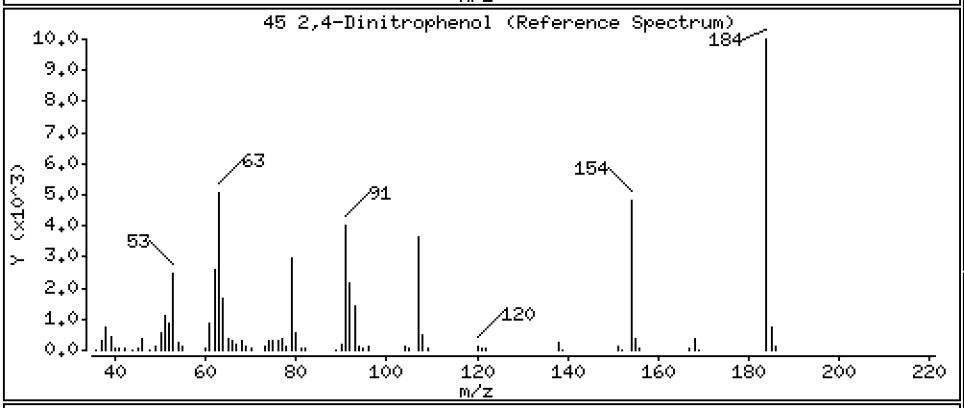
Concentration: 11.41 ug/mL

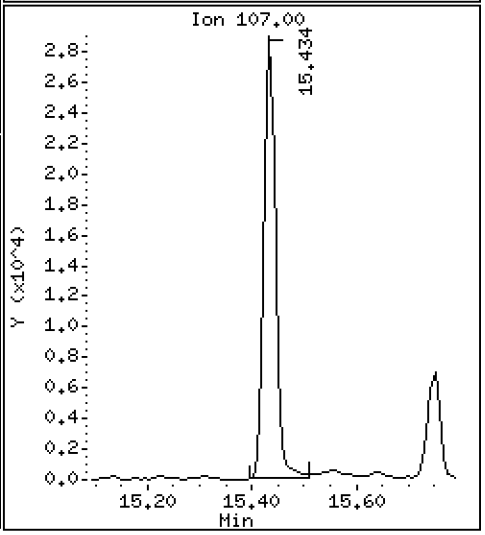


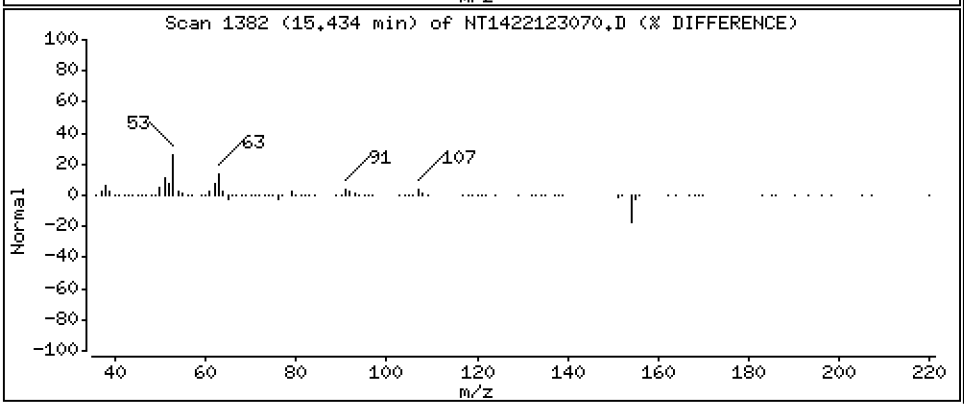












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

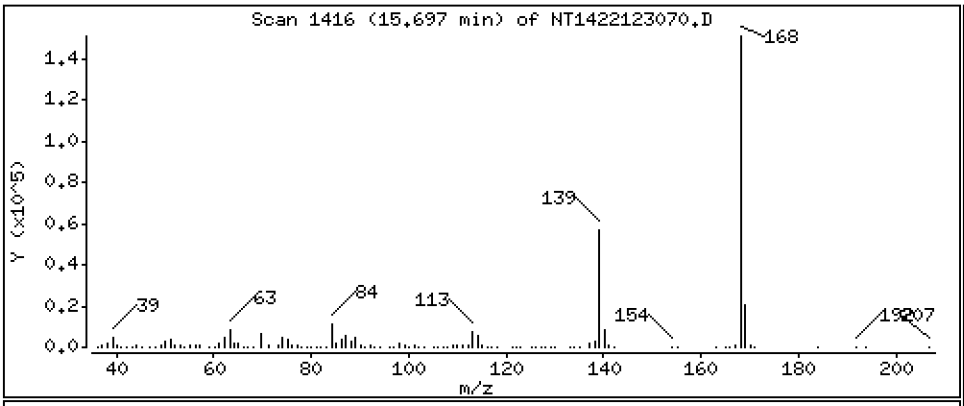
Operator: VTS

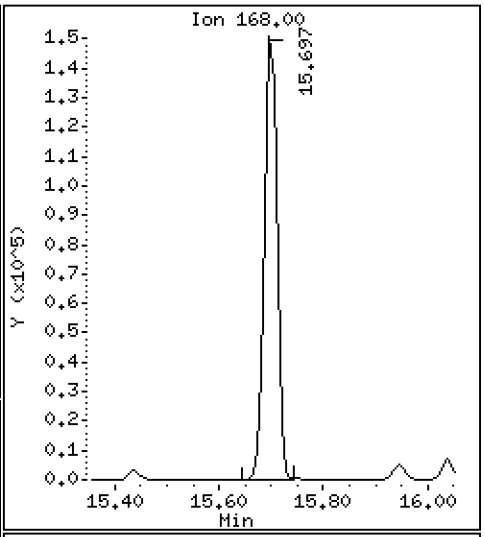
Column phase: ZB-5msi

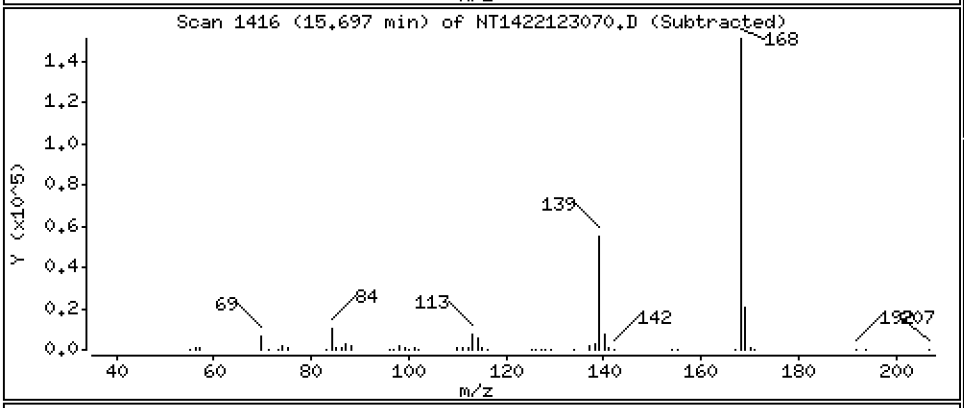
Column diameter: 0.25

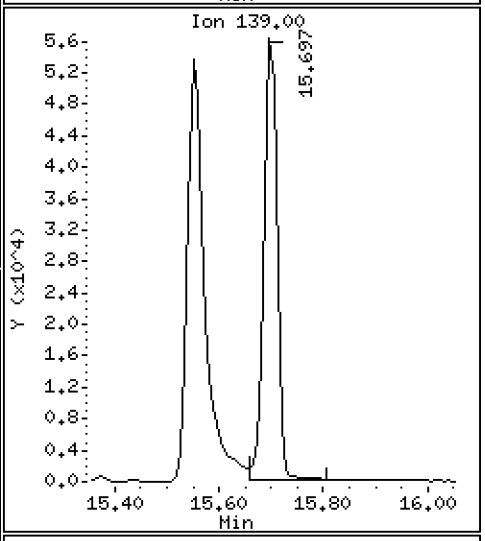
46 Dibenzofuran

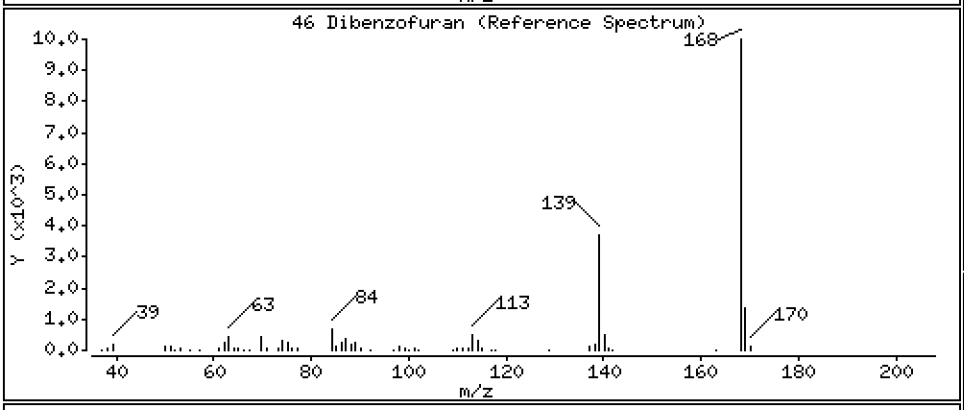
Concentration: 3.708 ug/mL

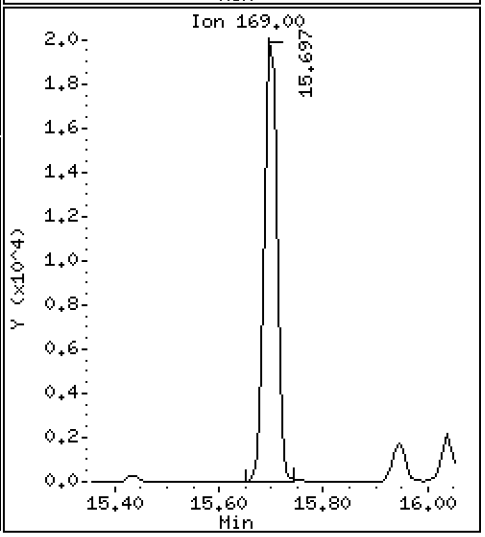


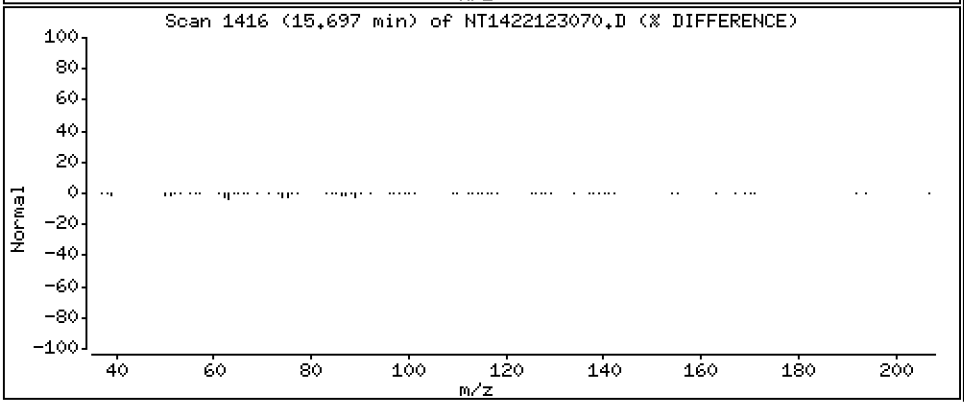












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

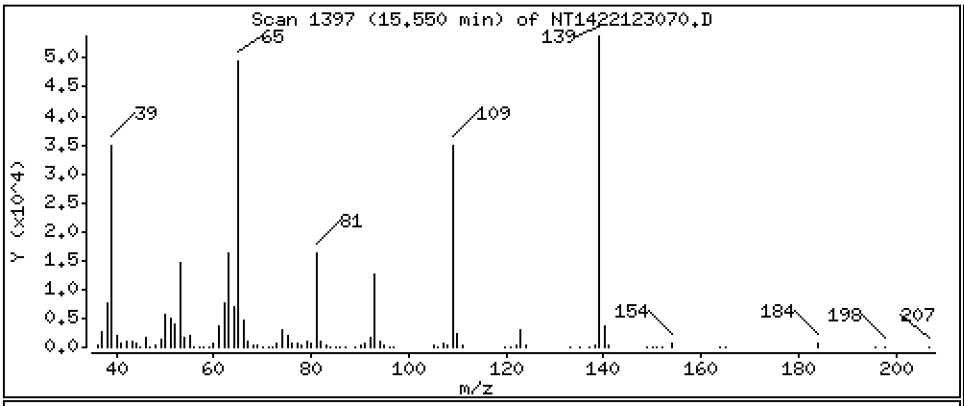
Operator: VTS

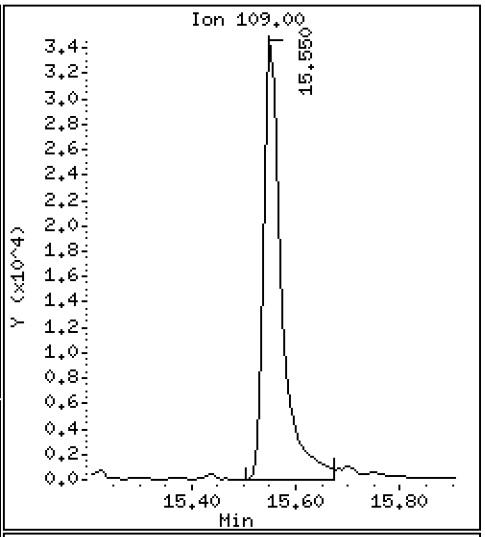
Column phase: ZB-5msi

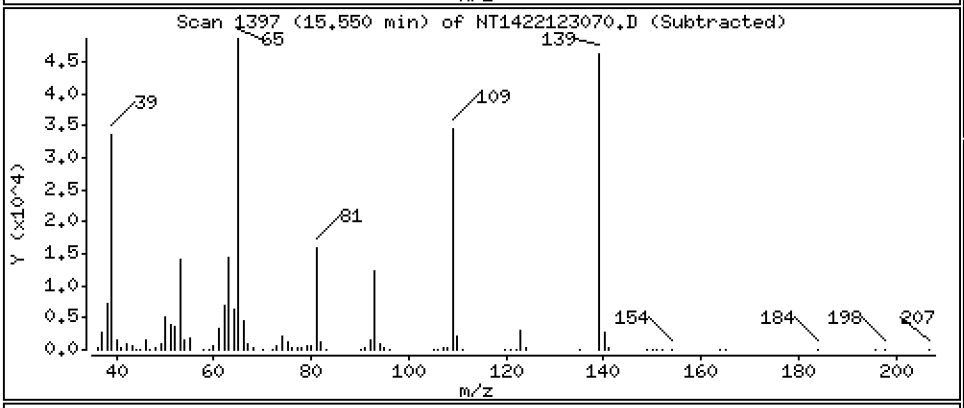
Column diameter: 0.25

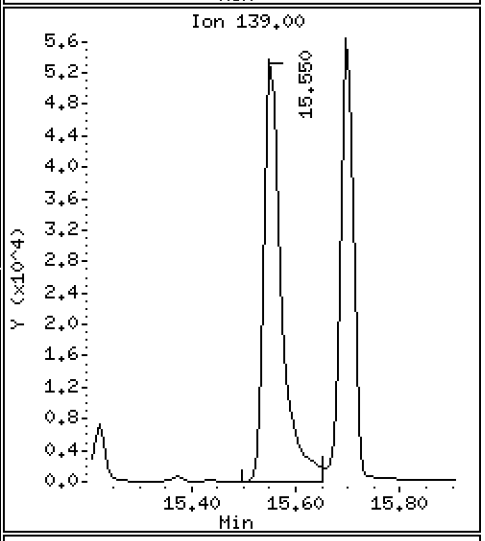
47 4-Nitrophenol

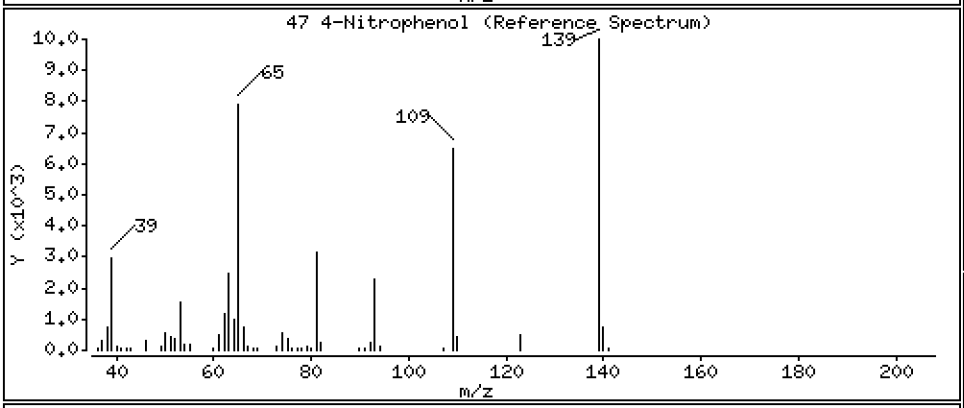
Concentration: 13.21 ug/mL

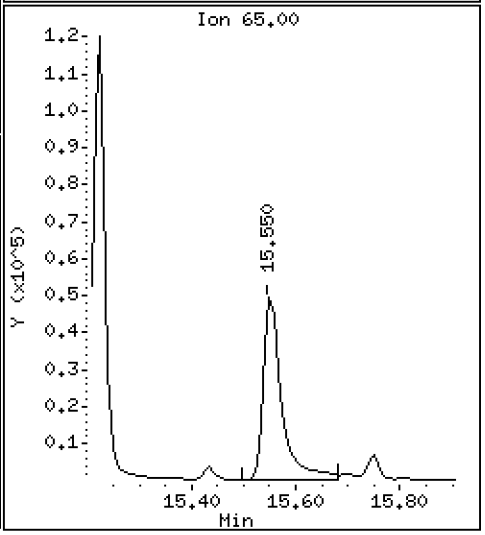


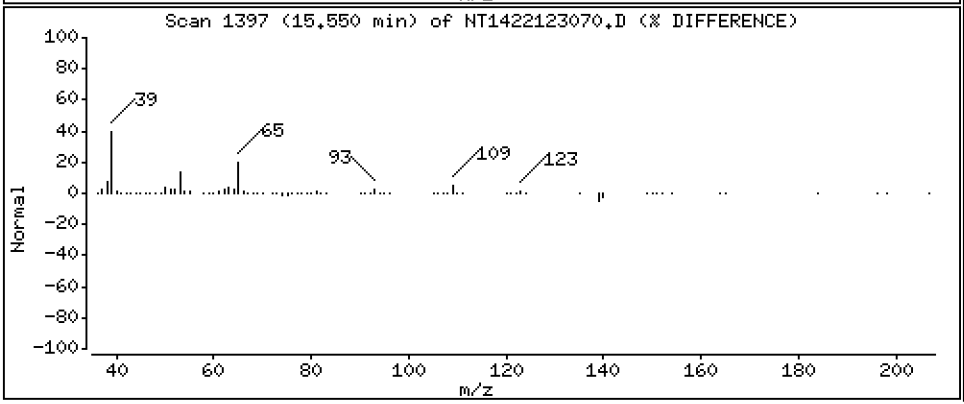












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

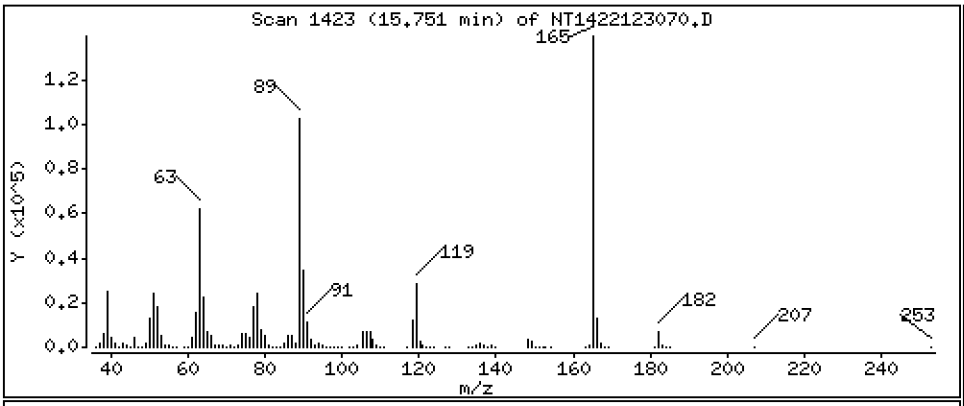
Operator: VTS

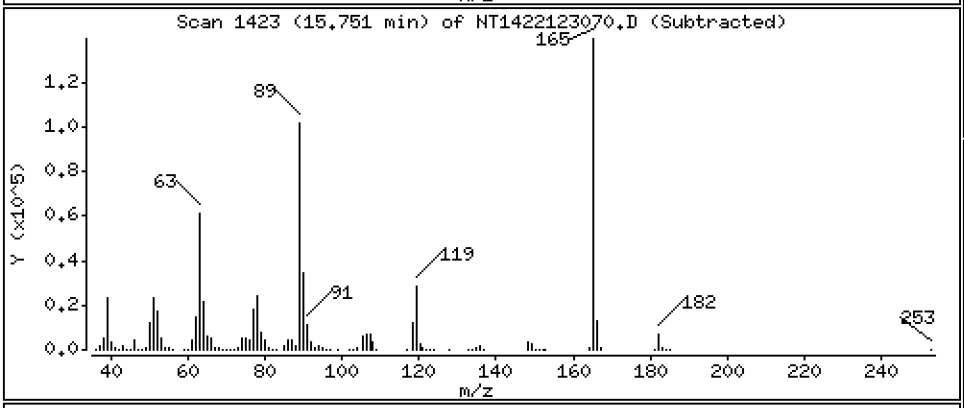
Column phase: ZB-5msi

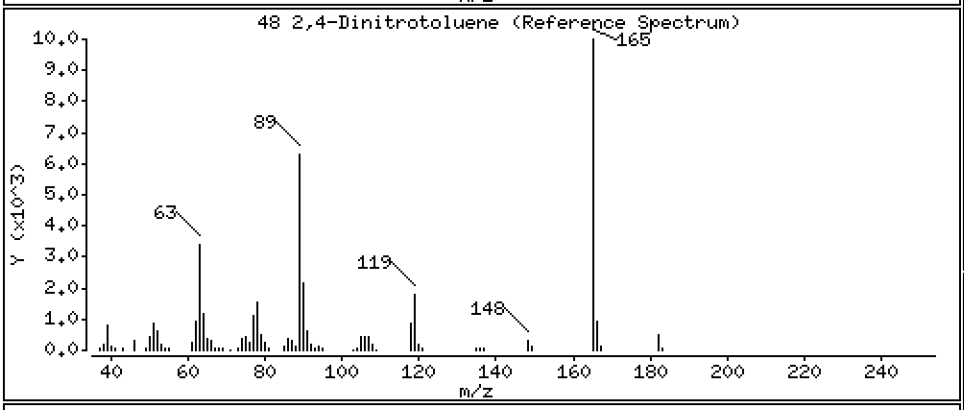
Column diameter: 0.25

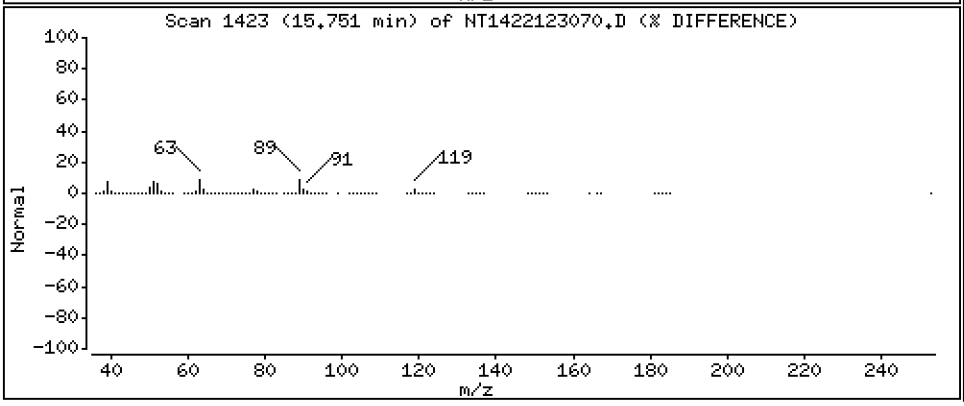
48 2,4-Dinitrotoluene

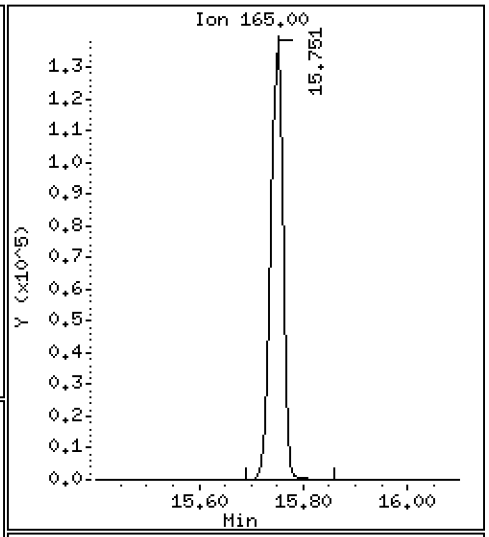
Concentration: 15.24 ug/mL

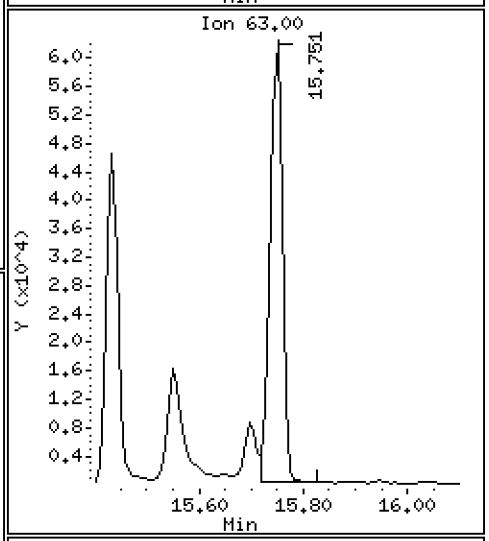


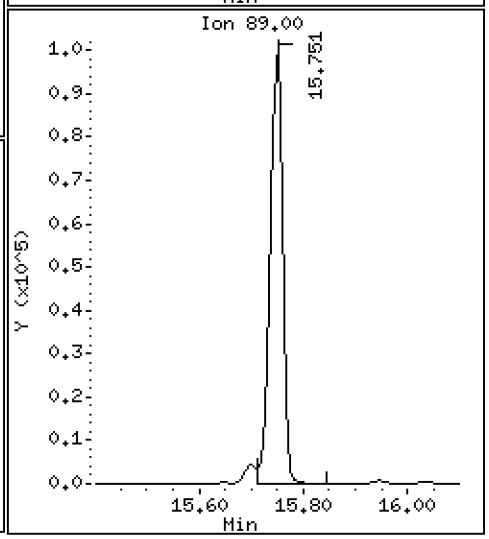












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

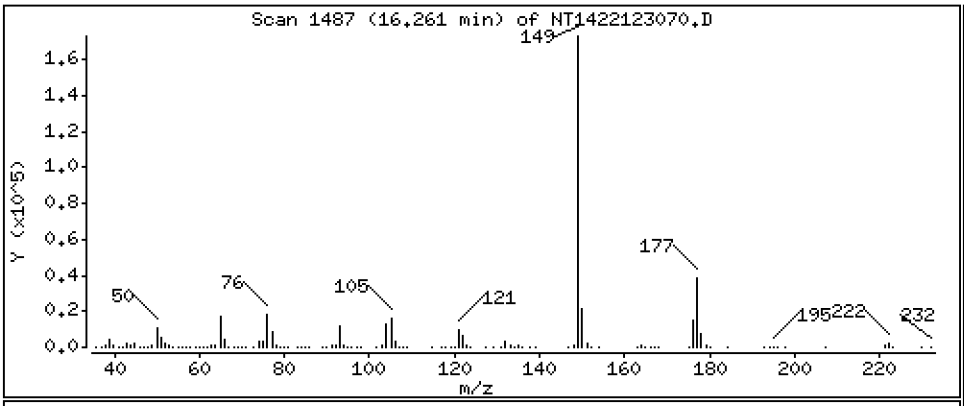
Operator: VTS

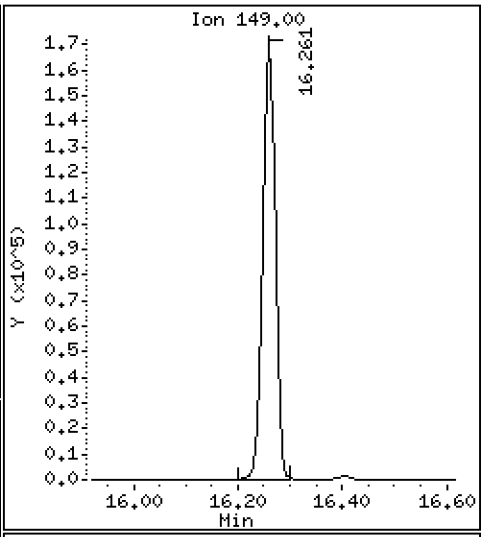
Column phase: ZB-5msi

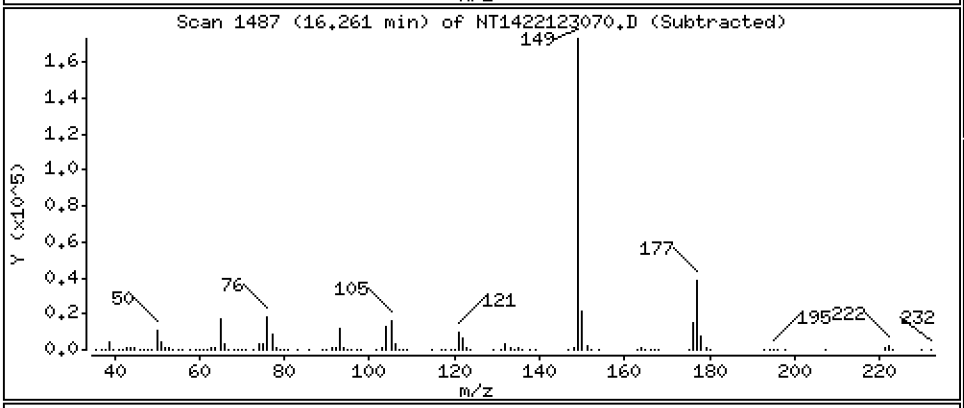
Column diameter: 0.25

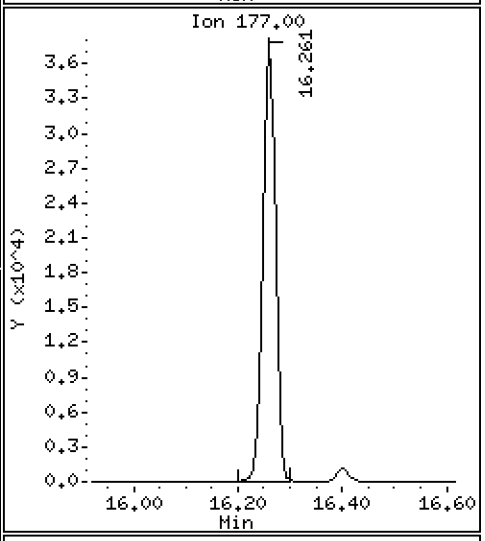
50 Diethylphthalate

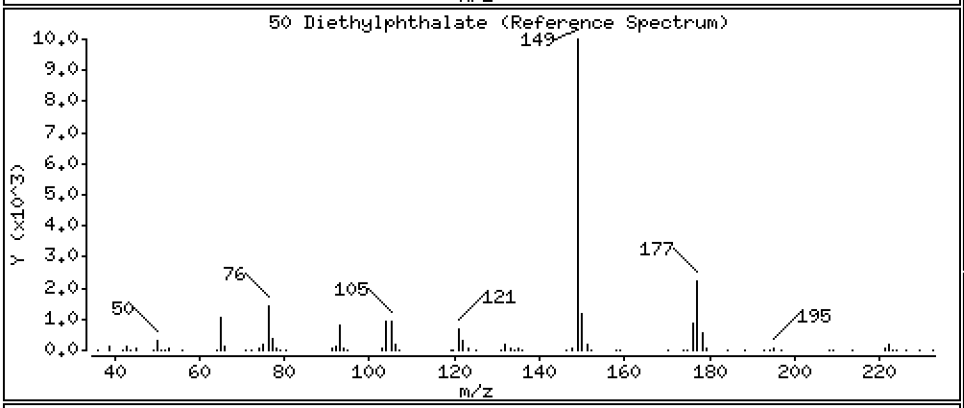
Concentration: 5.193 ug/mL

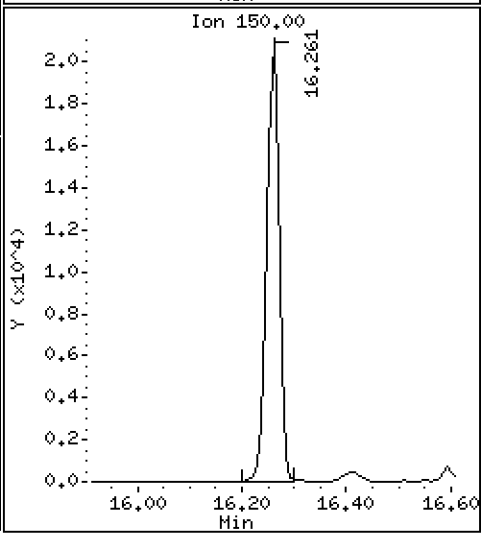


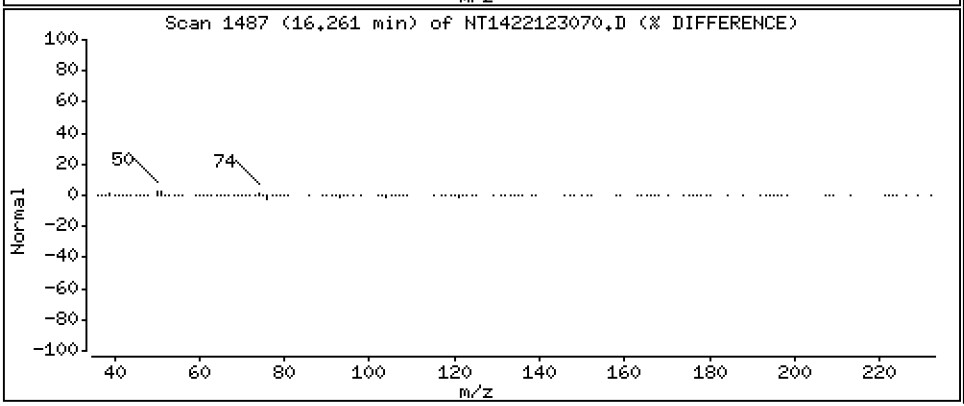












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

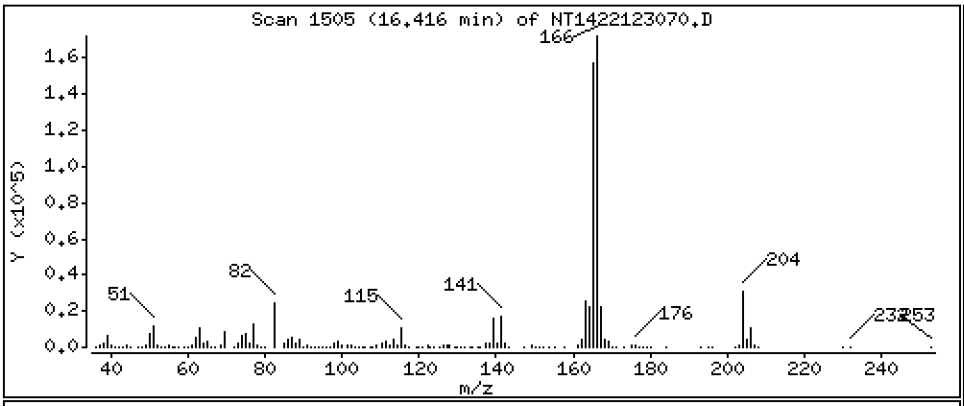
Operator: VTS

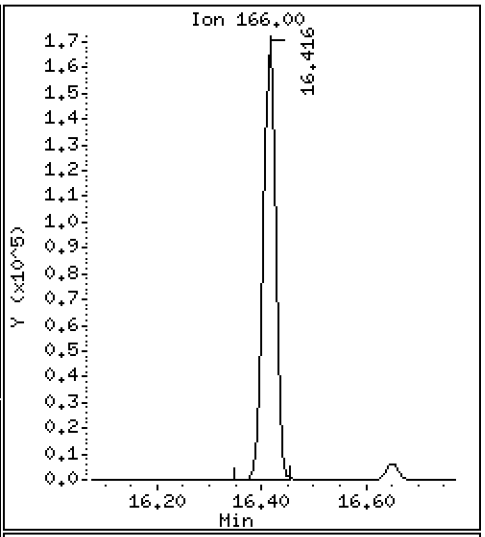
Column phase: ZB-5msi

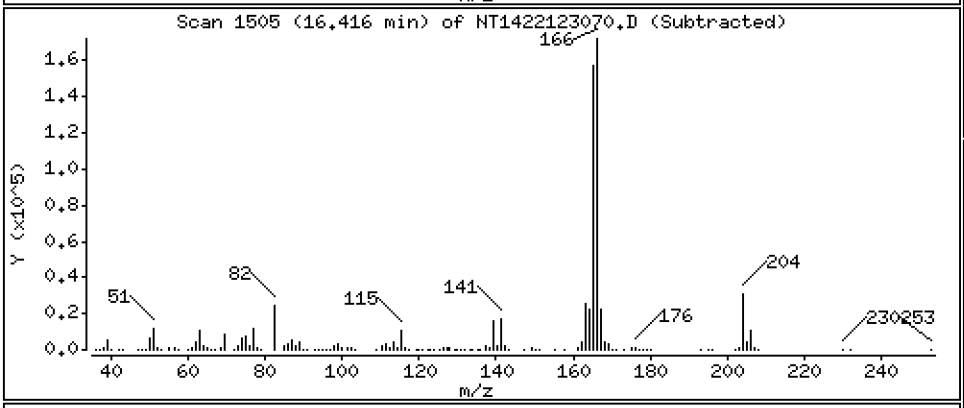
Column diameter: 0.25

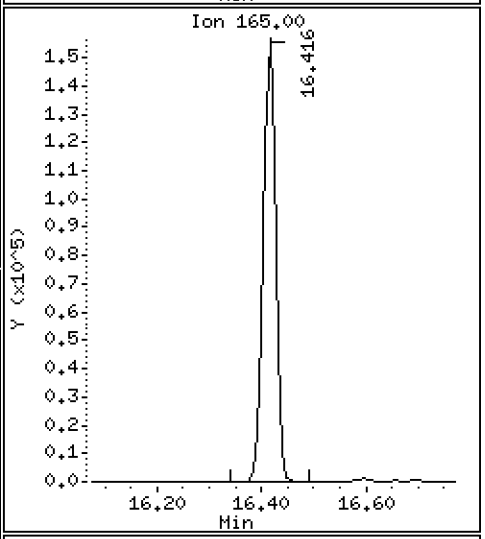
49 Fluorene

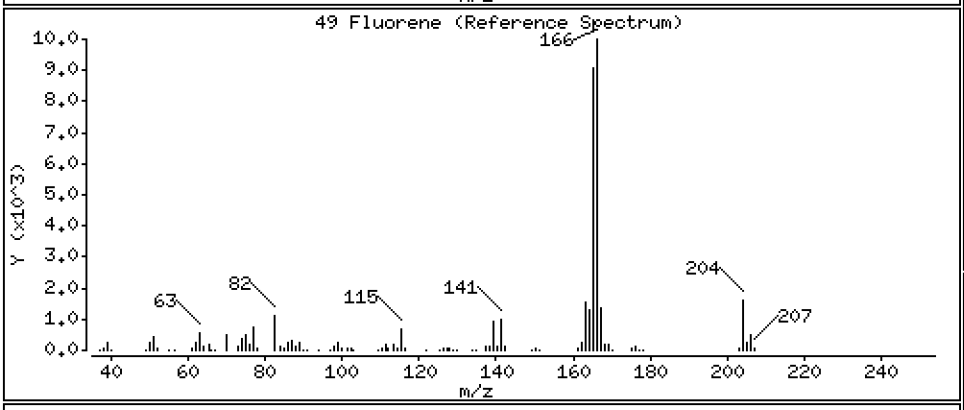
Concentration: 4.477 ug/mL

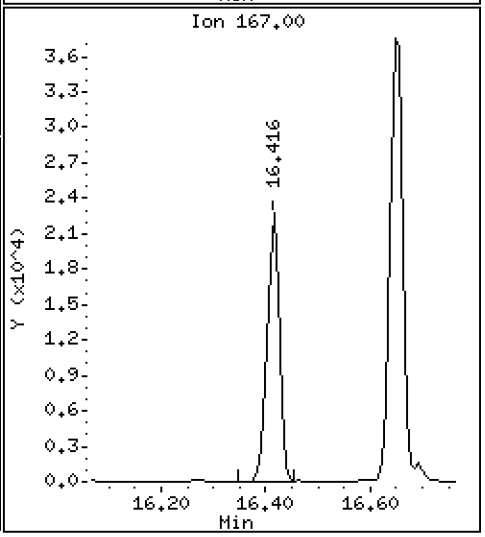


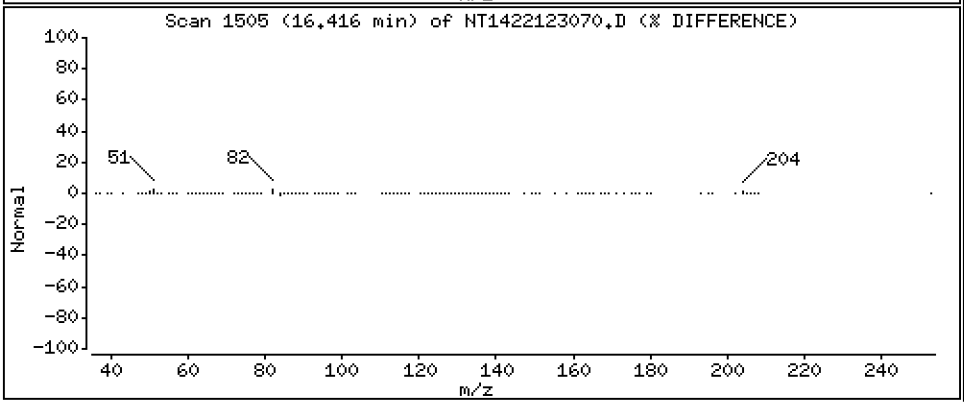












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

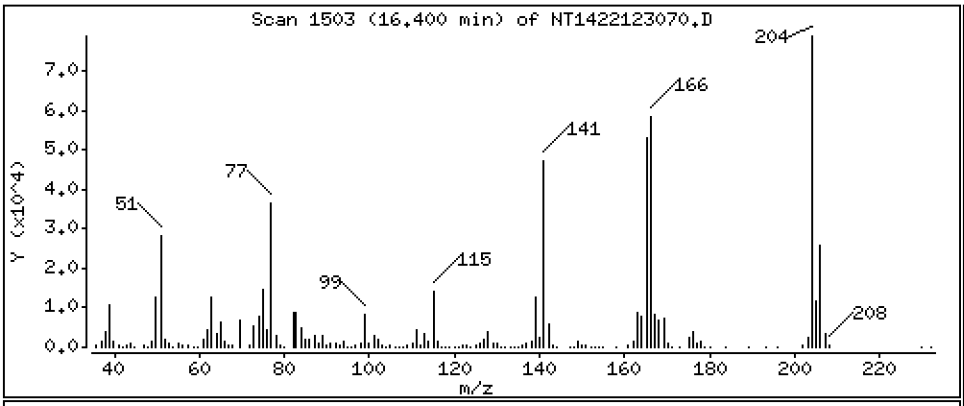
Operator: VTS

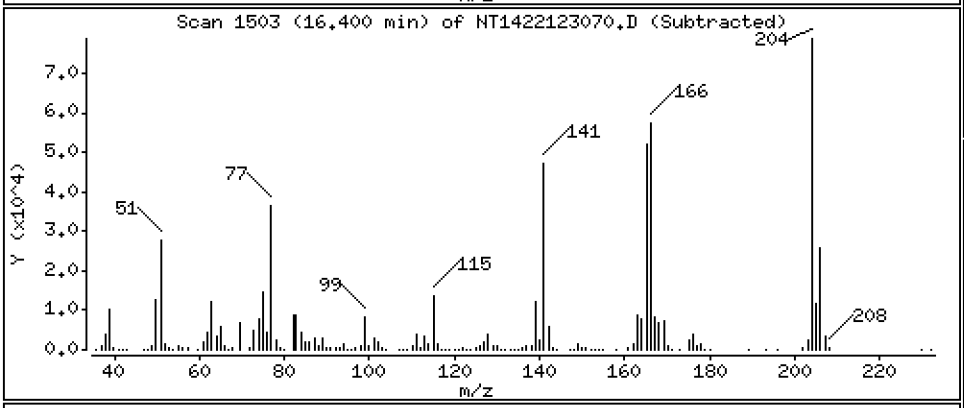
Column phase: ZB-5msi

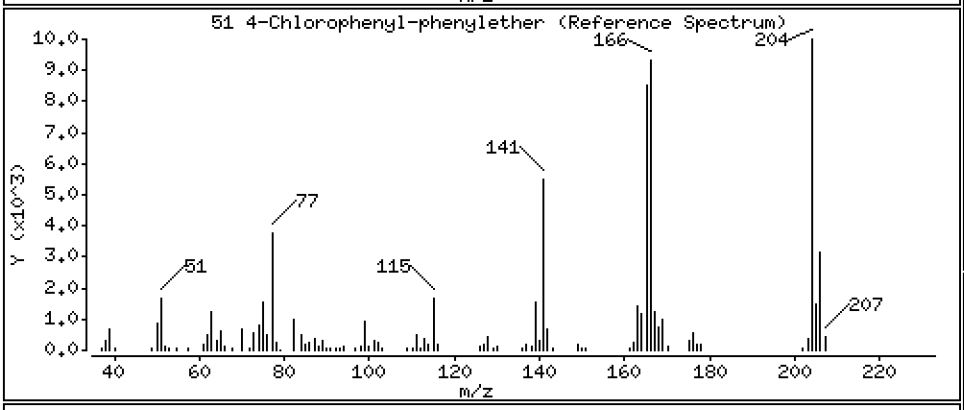
Column diameter: 0.25

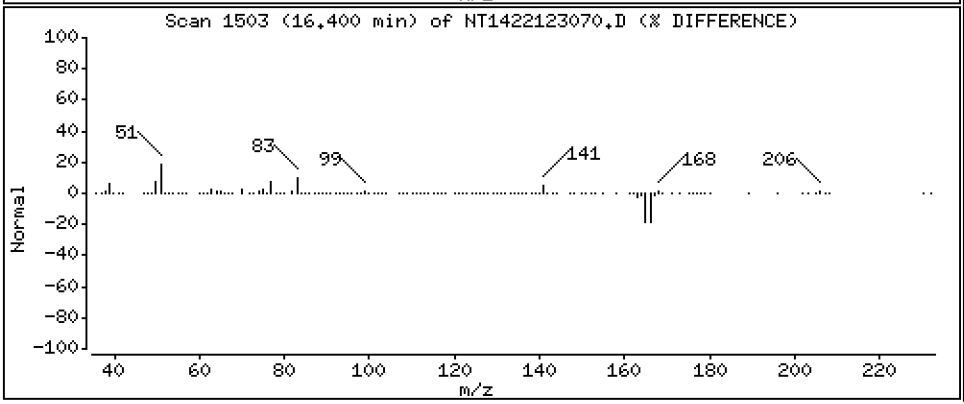
51 4-Chlorophenyl-phenylether

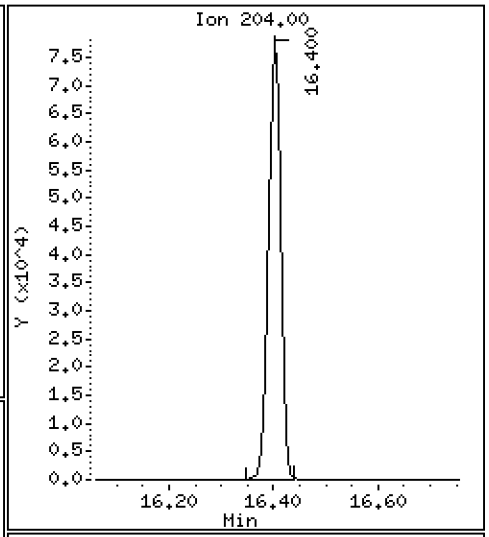
Concentration: 4.261 ug/mL

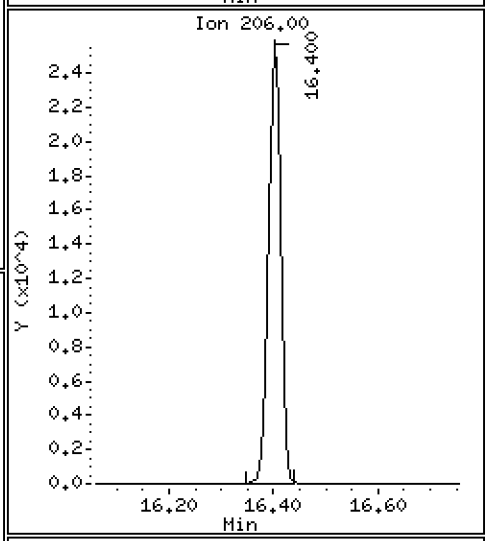


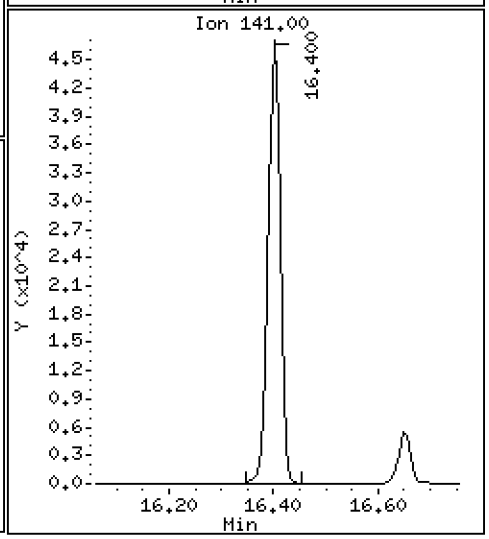












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

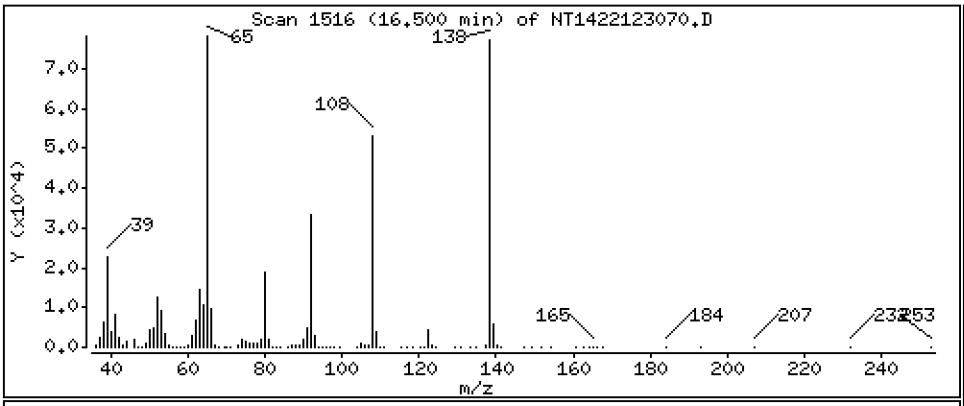
Operator: VTS

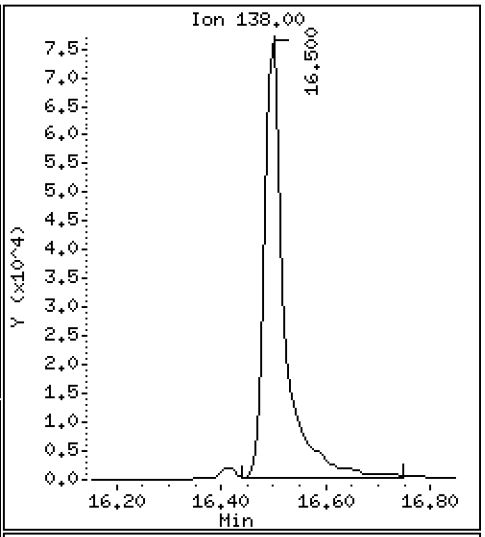
Column phase: ZB-5msi

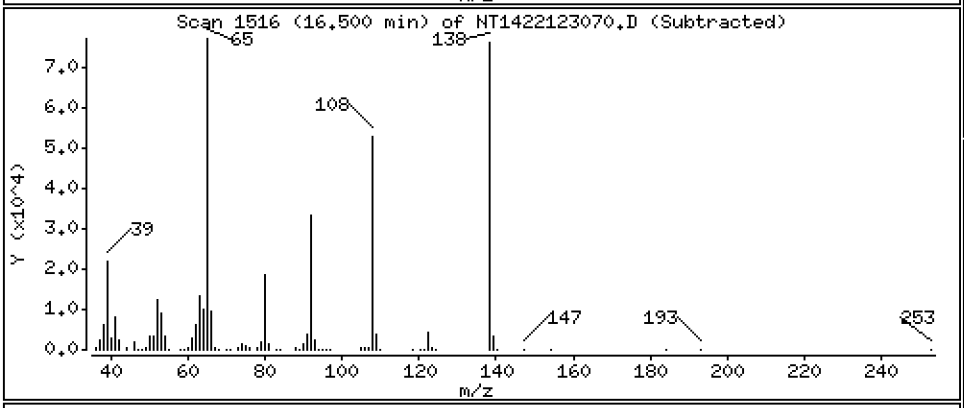
Column diameter: 0.25

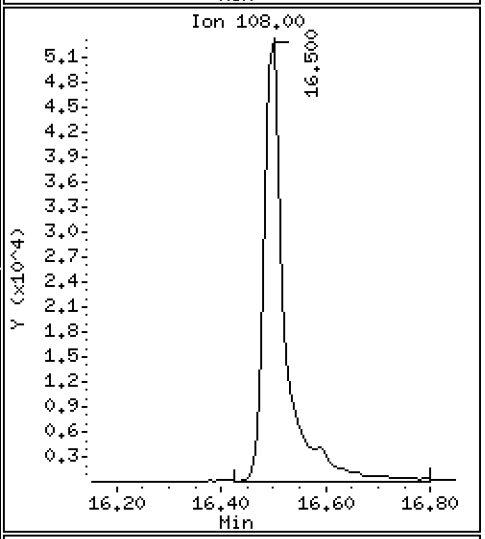
52 4-Nitroaniline

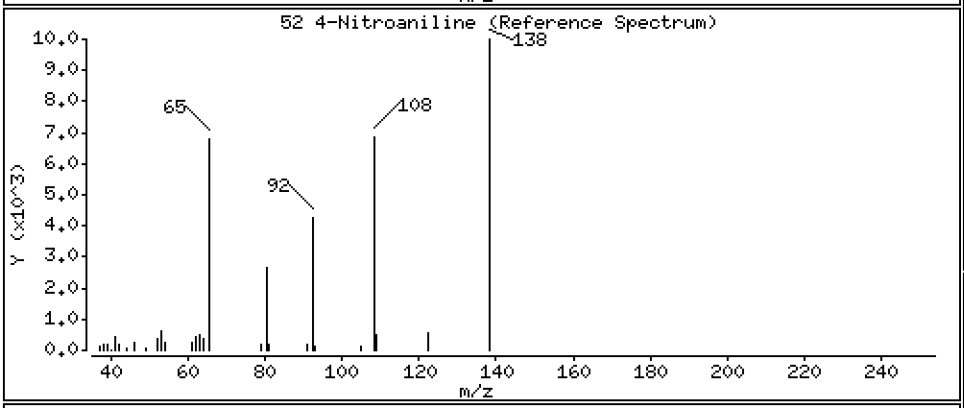
Concentration: 12.98 ug/mL

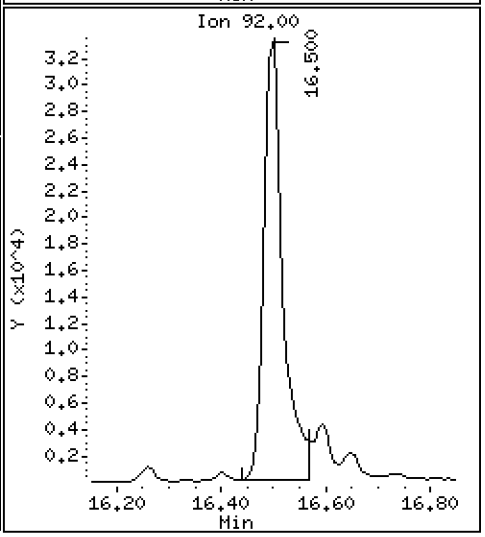


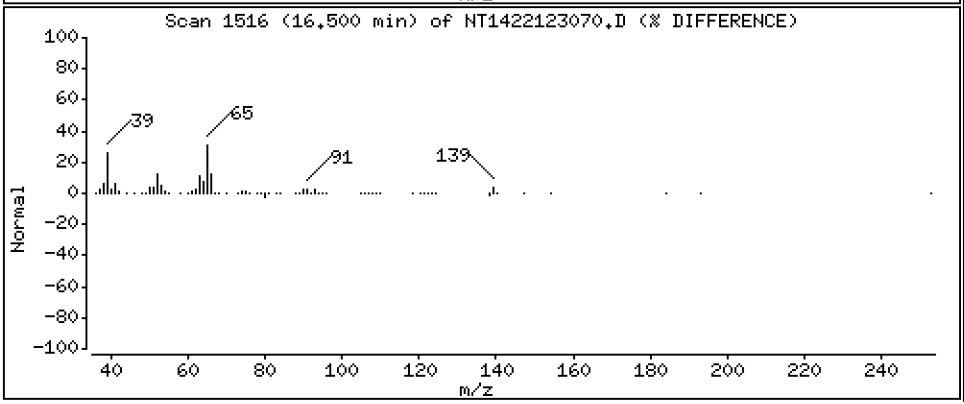












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

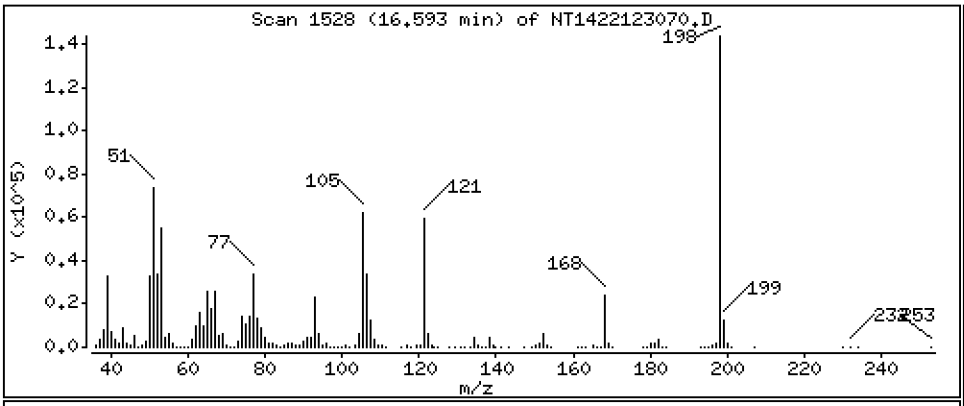
Operator: VTS

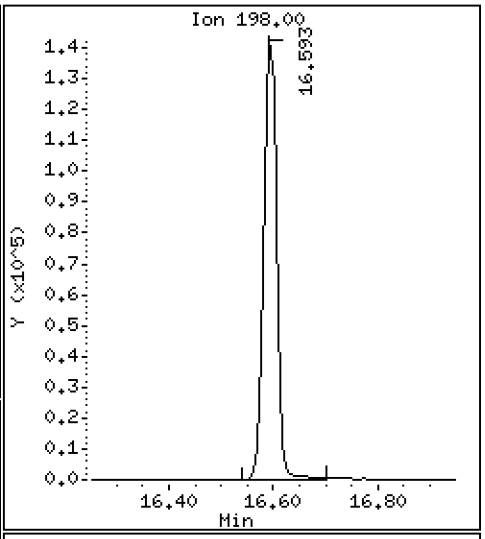
Column phase: ZB-5msi

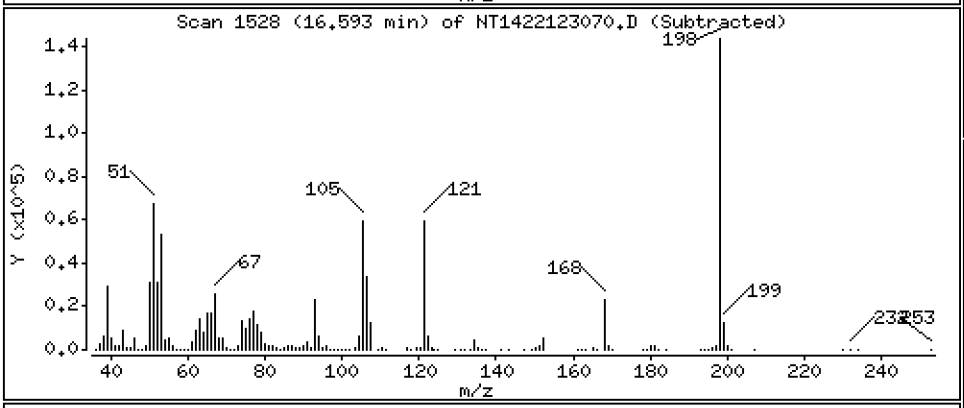
Column diameter: 0.25

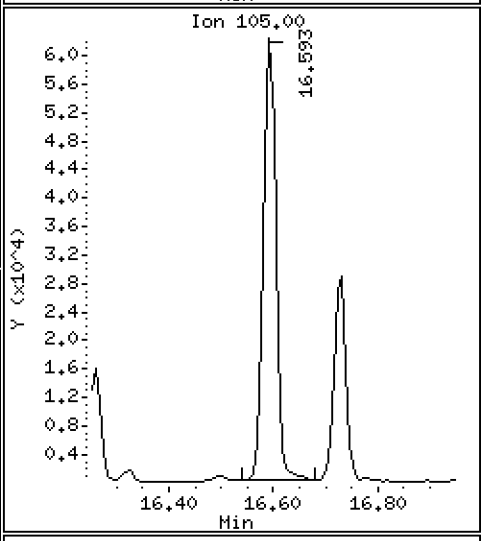
53 4,6-Dinitro-2-methylphenol

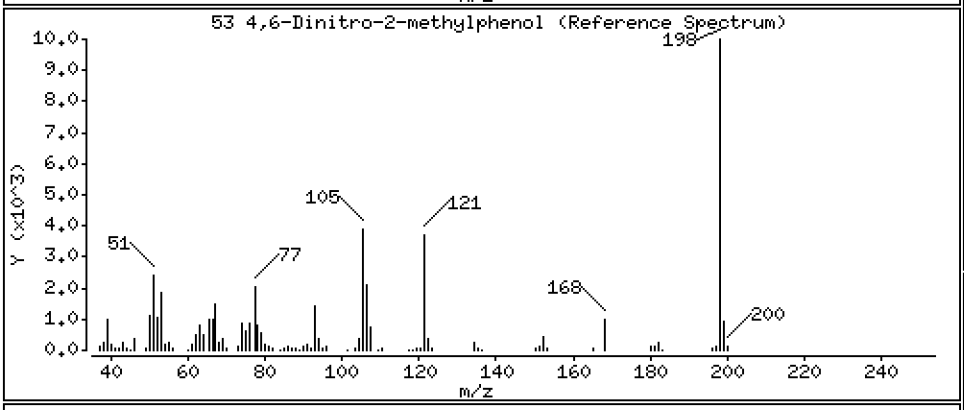
Concentration: 20.18 ug/mL

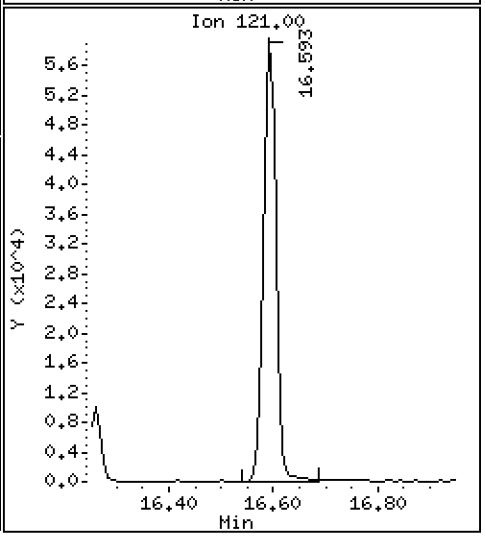


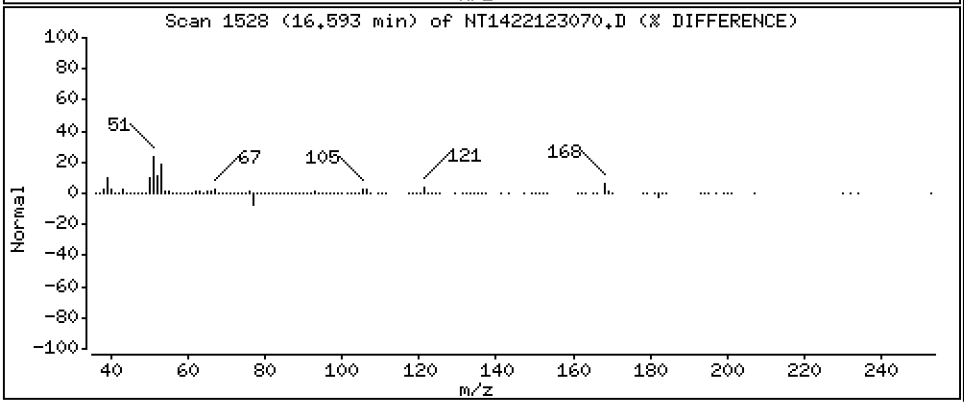












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

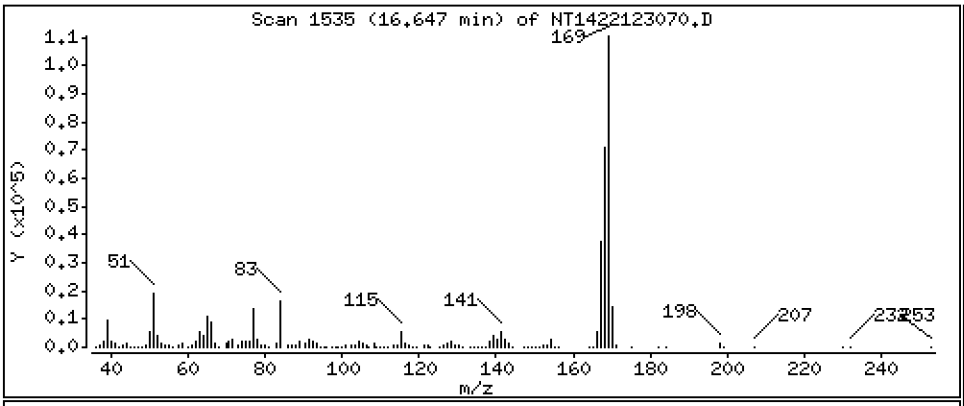
Operator: VTS

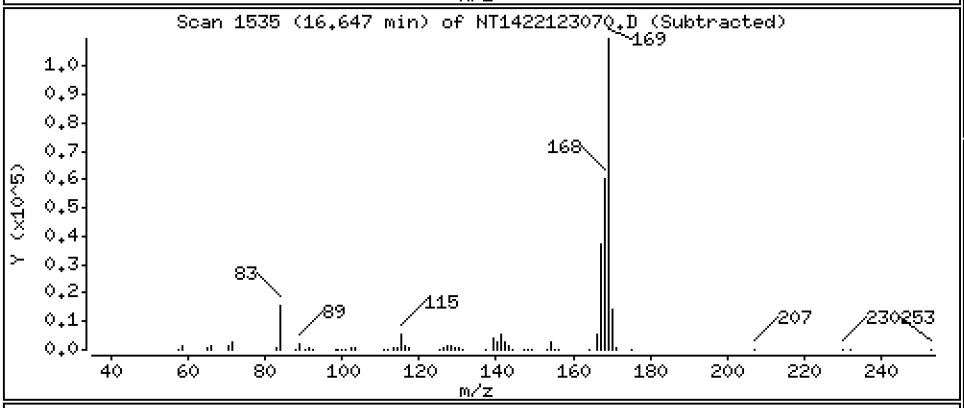
Column phase: ZB-5msi

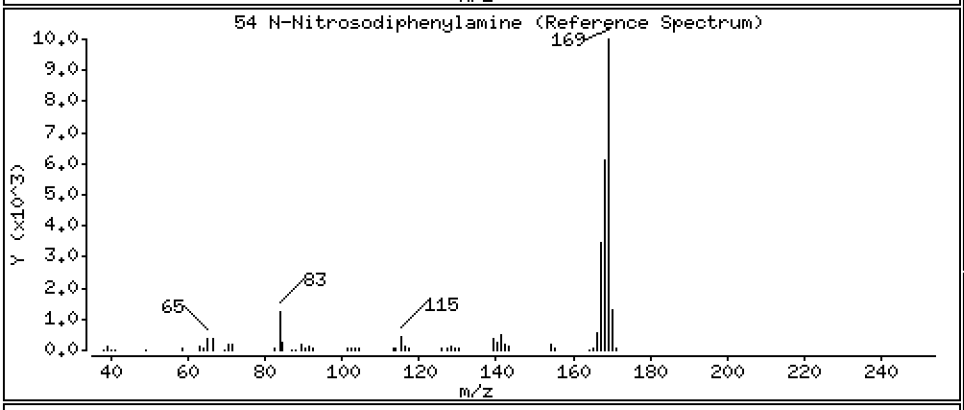
Column diameter: 0.25

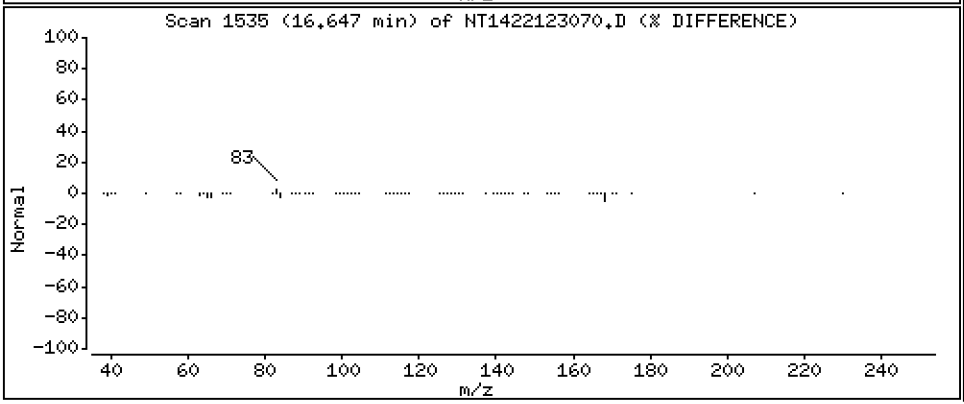
54 N-Nitrosodiphenylamine

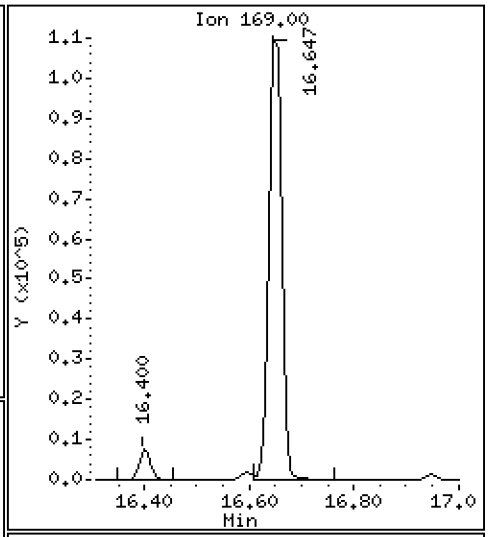
Concentration: 3.950 ug/mL

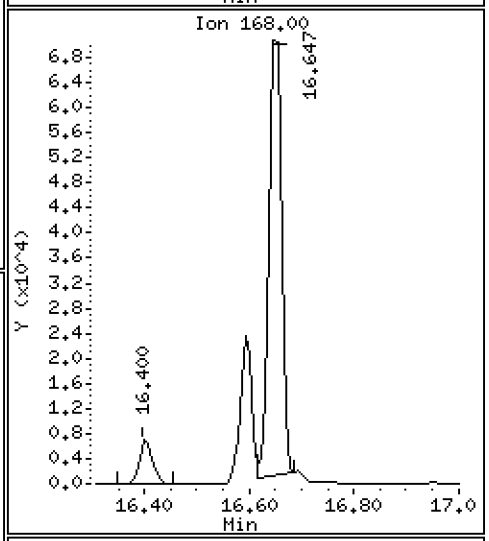


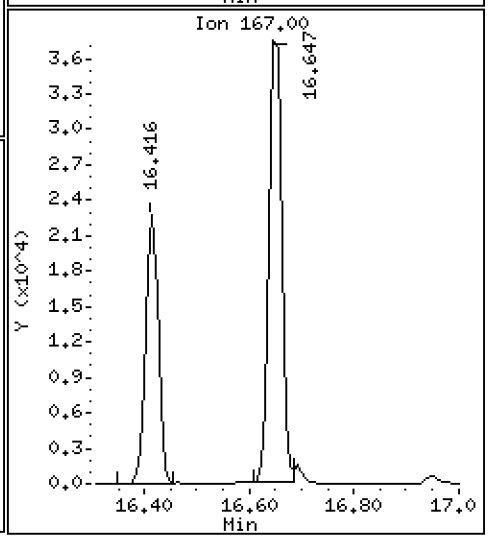












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

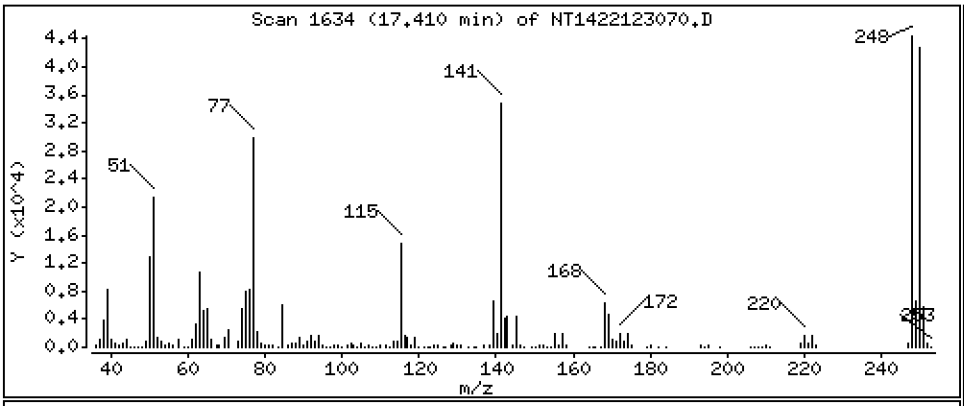
Operator: VTS

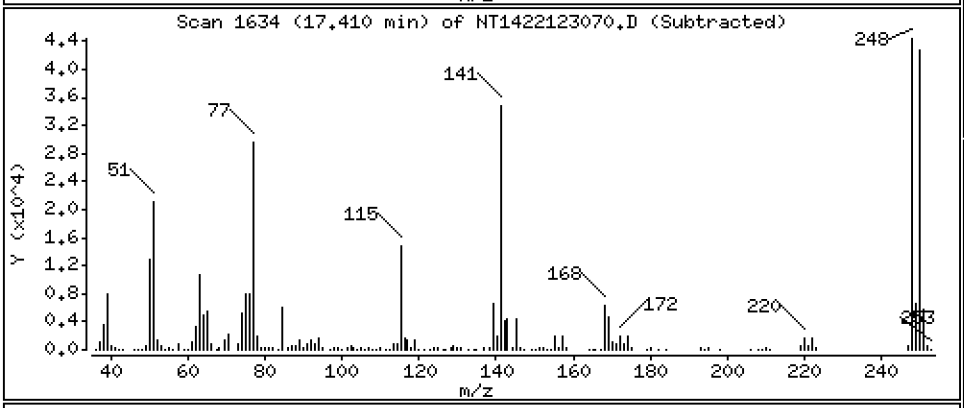
Column phase: ZB-5msi

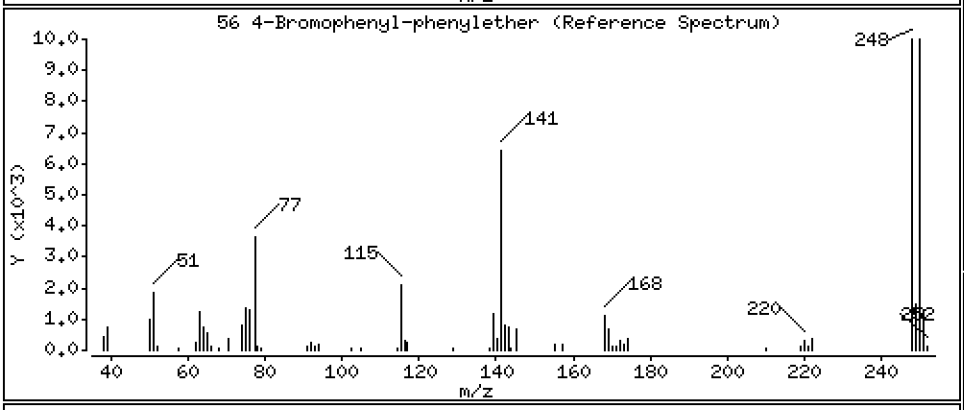
Column diameter: 0.25

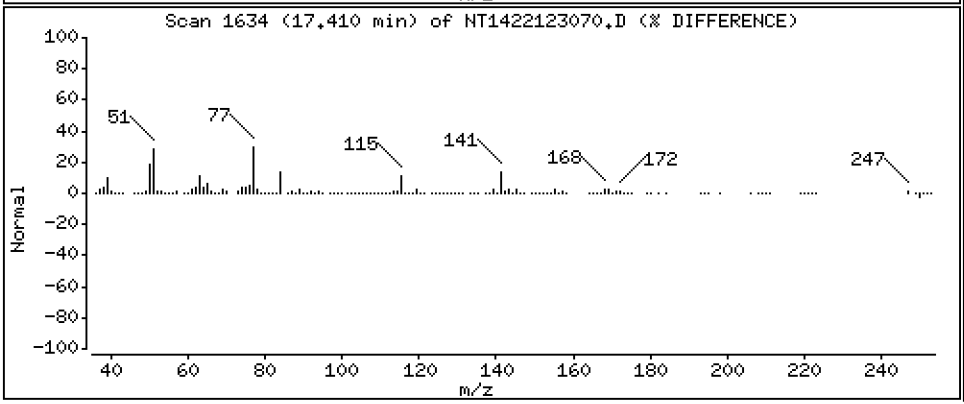
56 4-Bromophenyl-phenylether

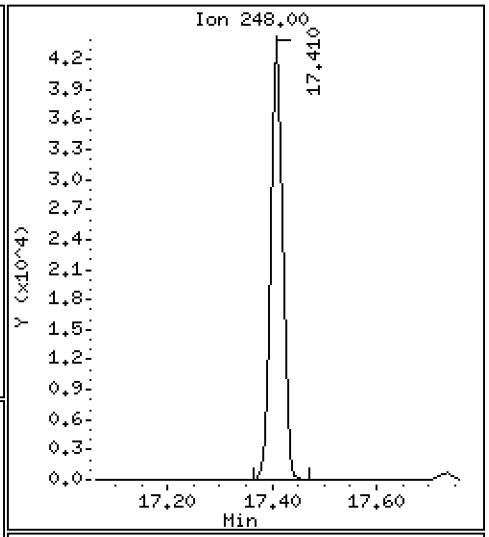
Concentration: 4.031 ug/mL

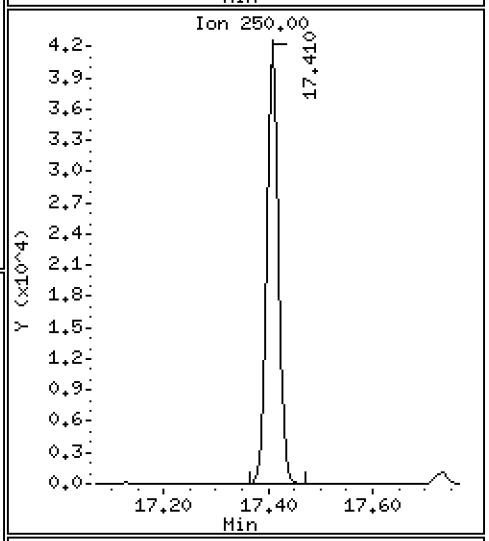


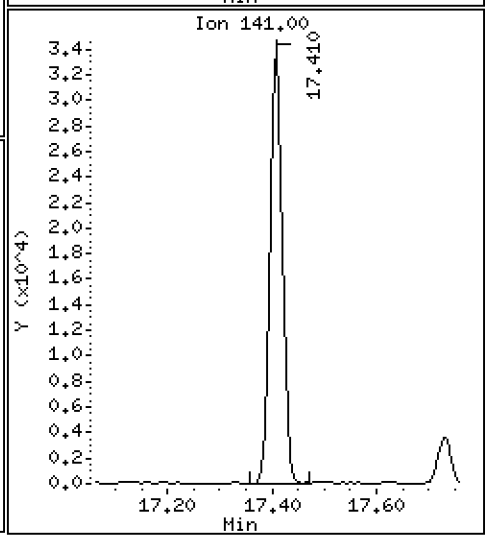












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

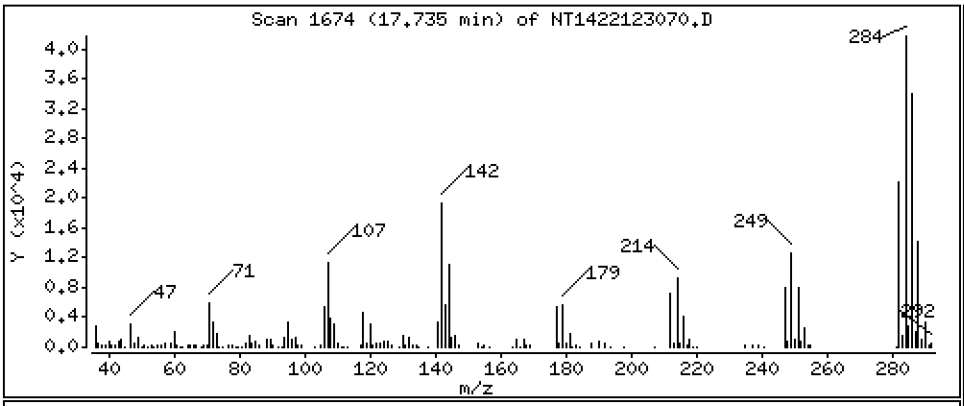
Operator: VTS

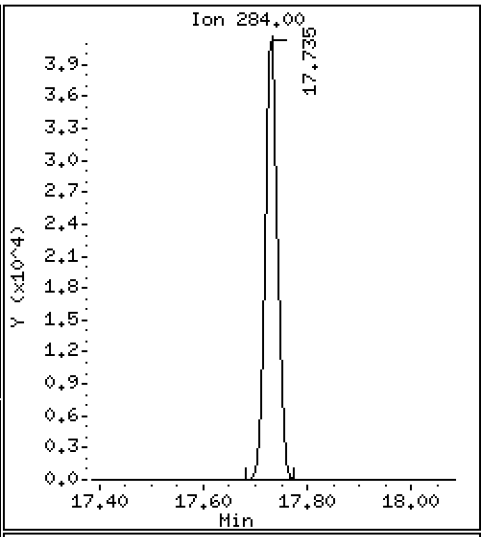
Column phase: ZB-5msi

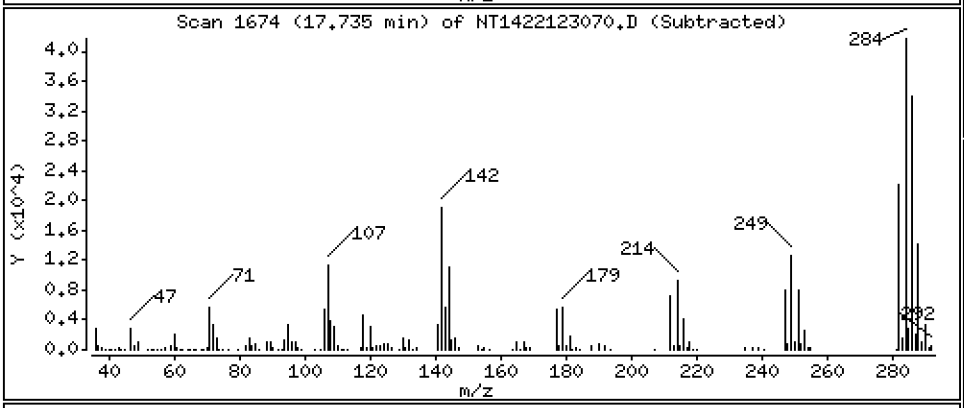
Column diameter: 0.25

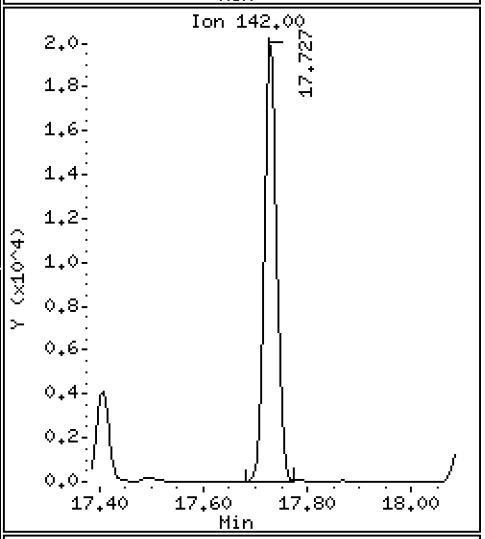
57 Hexachlorobenzene

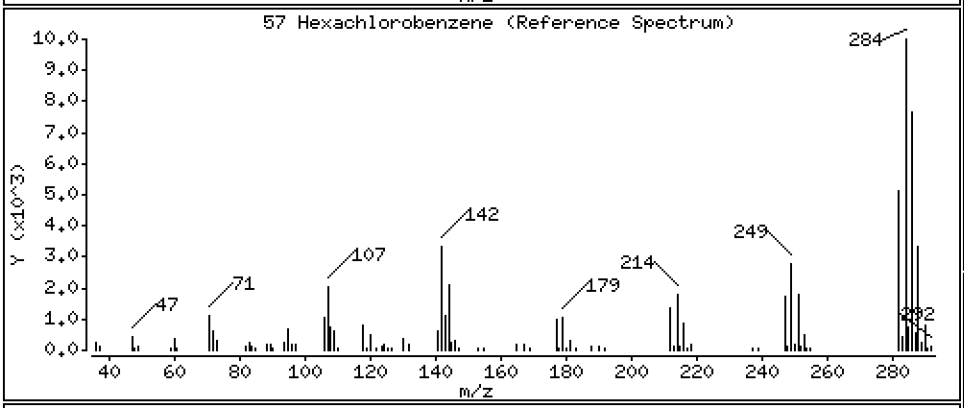
Concentration: 3.666 ug/mL

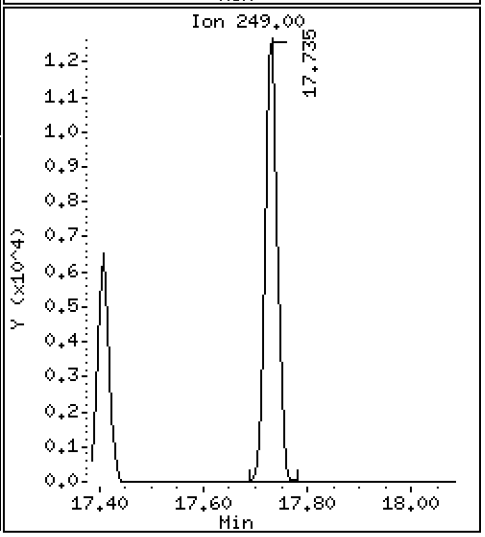


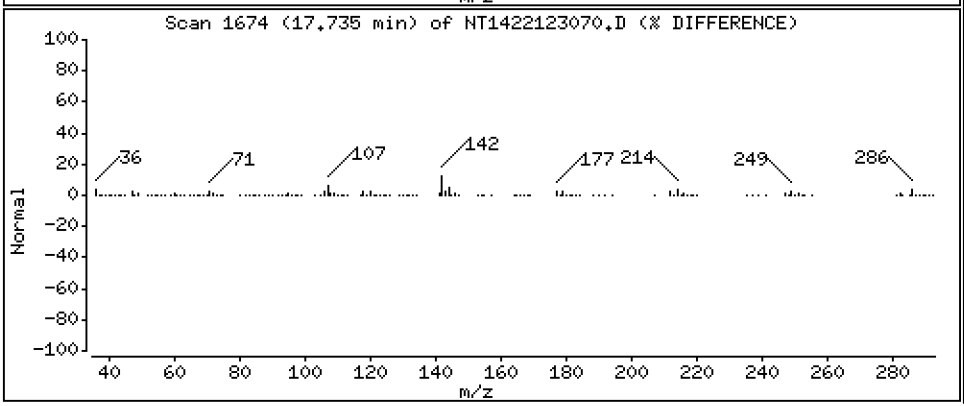












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

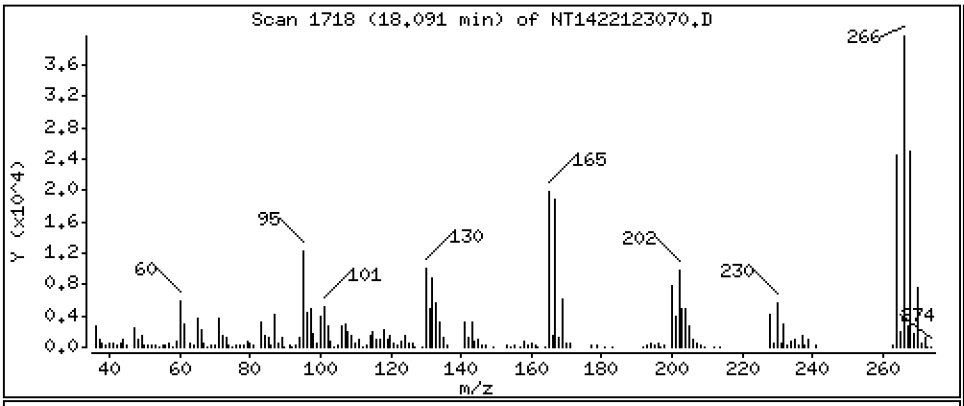
Operator: VTS

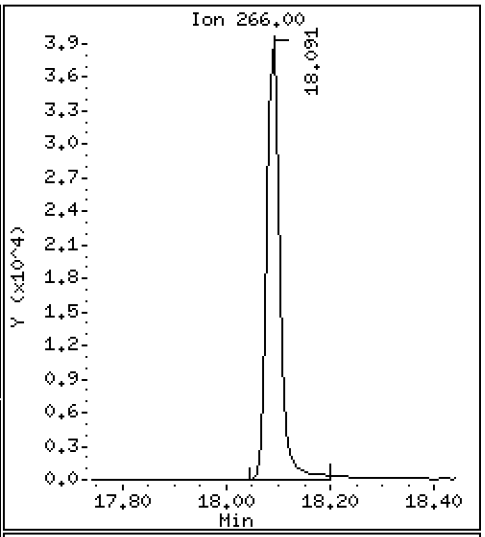
Column phase: ZB-5msi

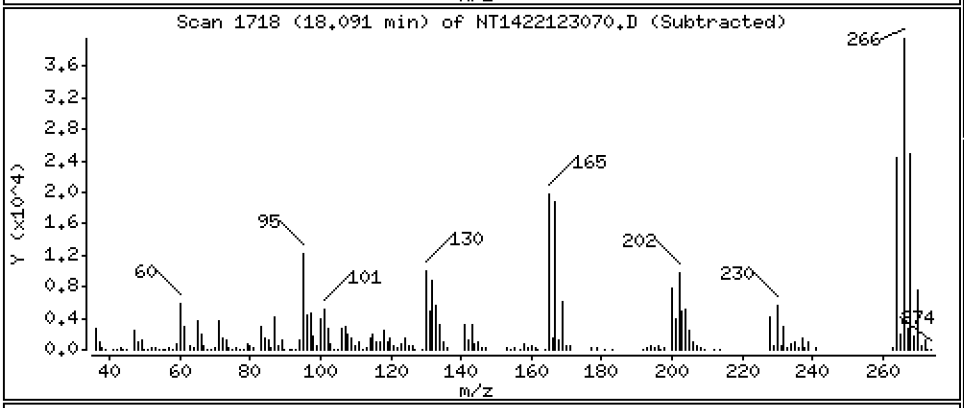
Column diameter: 0.25

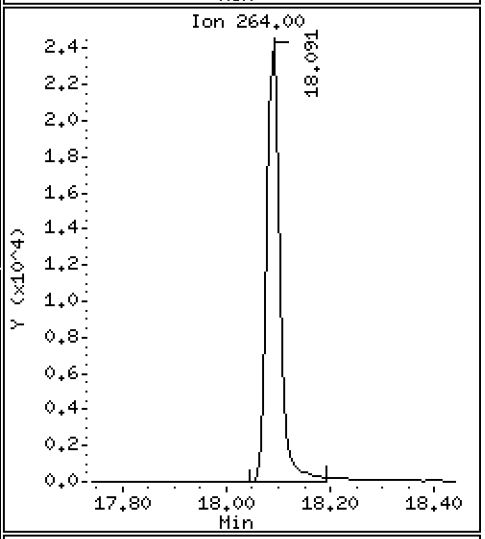
58 Pentachlorophenol

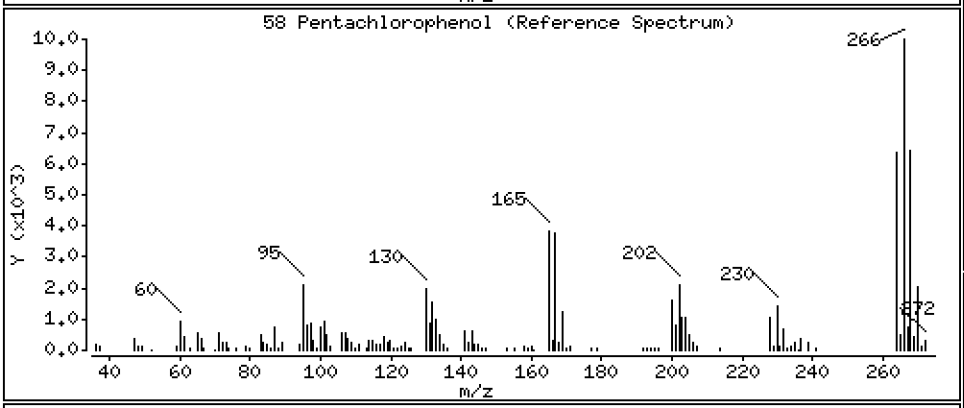
Concentration: 7.781 ug/mL

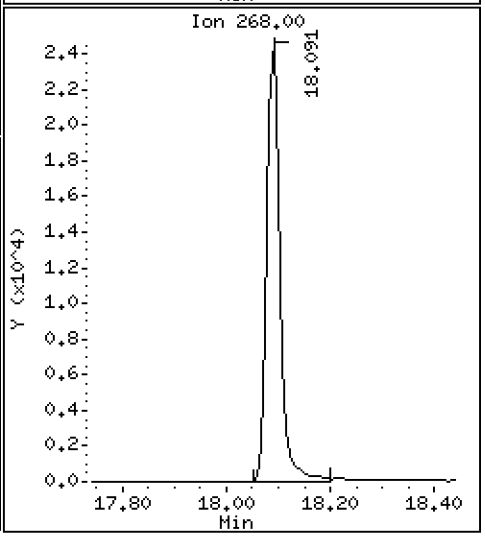


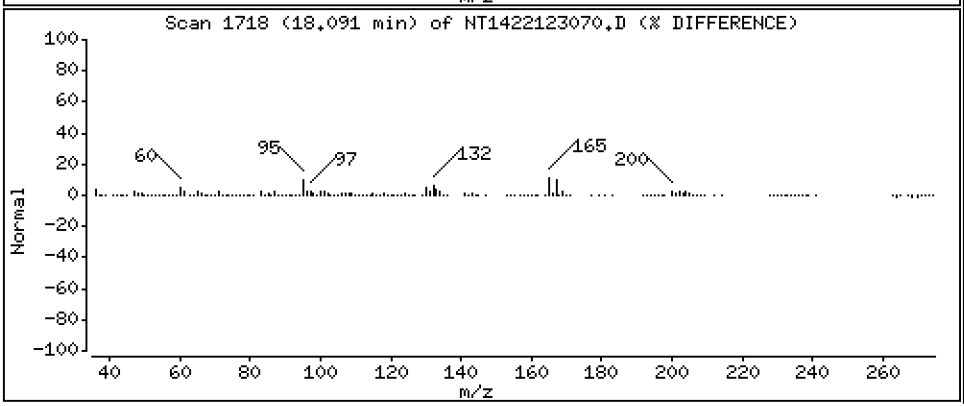












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

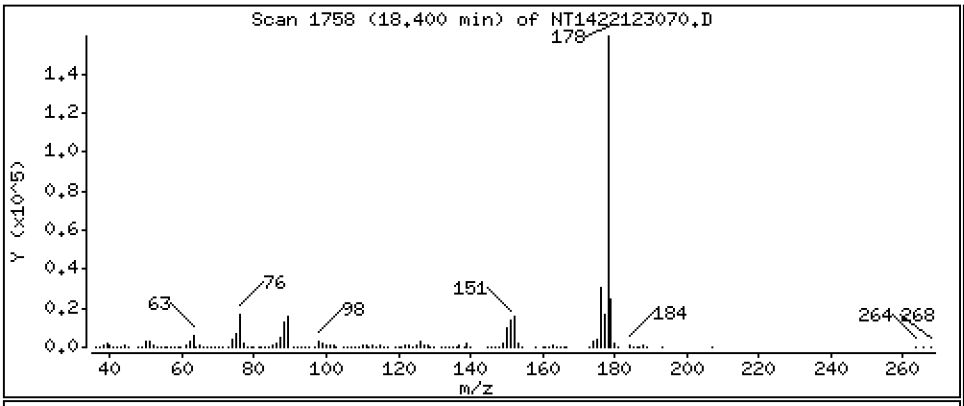
Operator: VTS

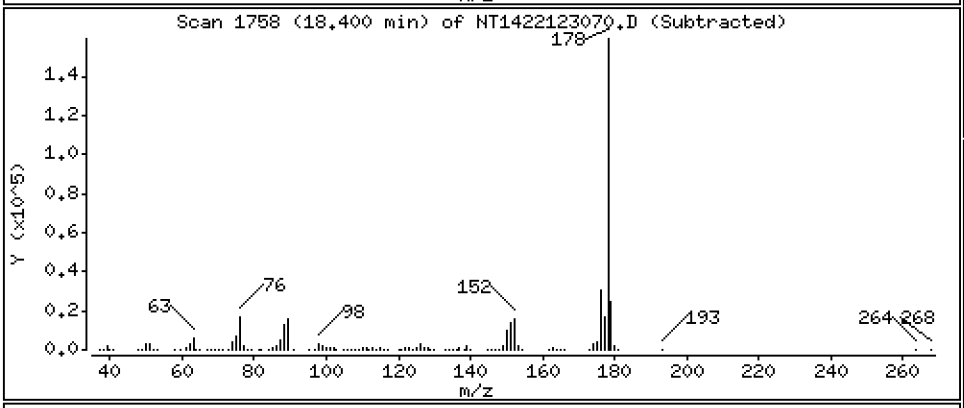
Column phase: ZB-5msi

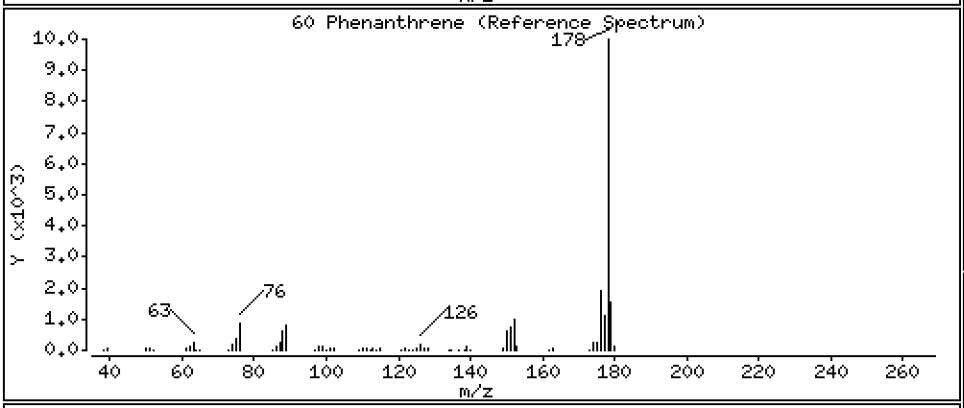
Column diameter: 0.25

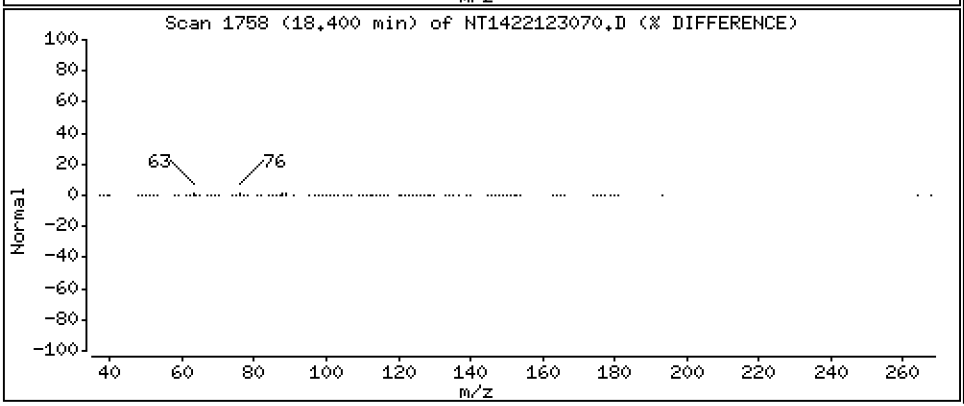
60 Phenanthrene

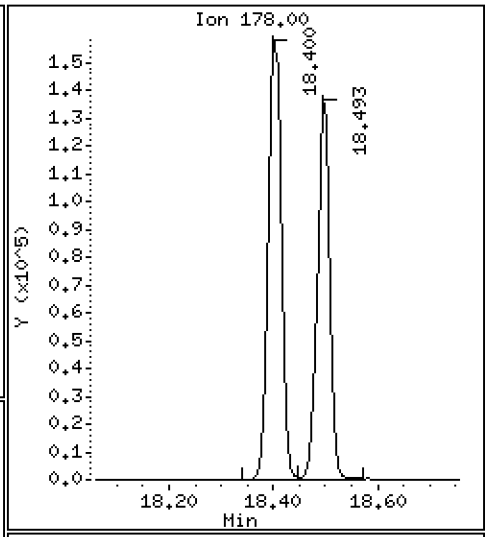
Concentration: 3.834 ug/mL

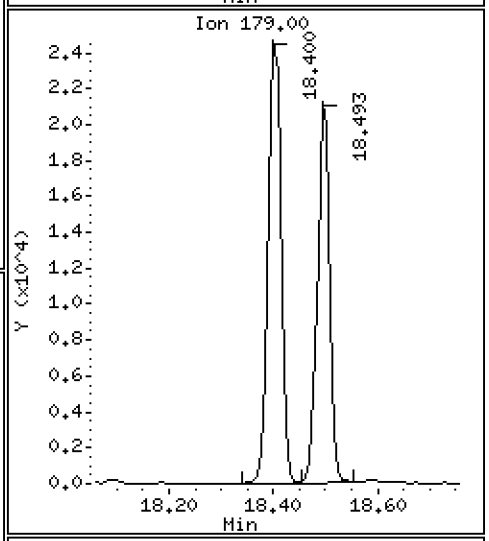


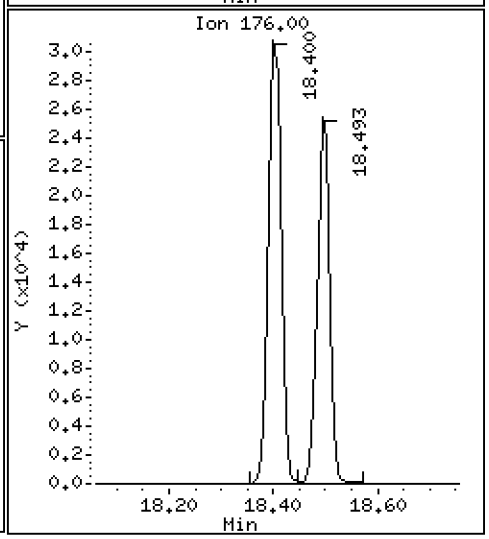












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

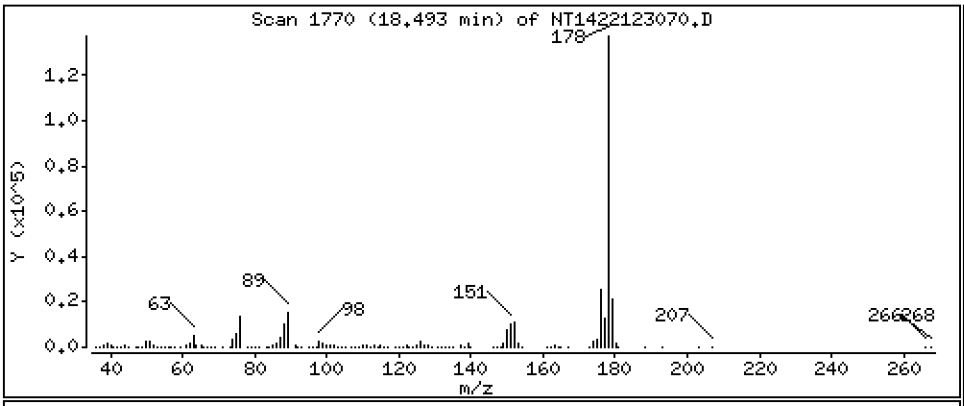
Operator: VTS

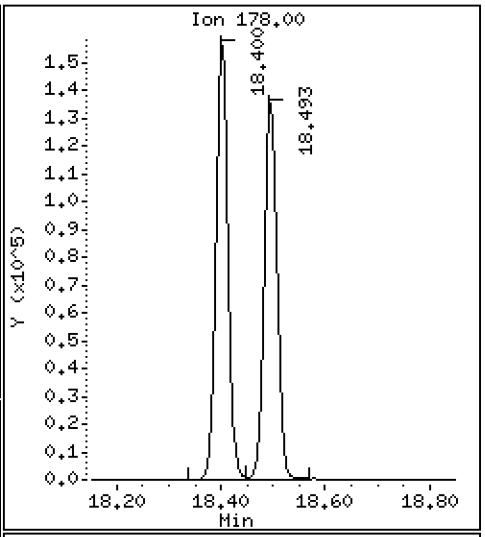
Column phase: ZB-5msi

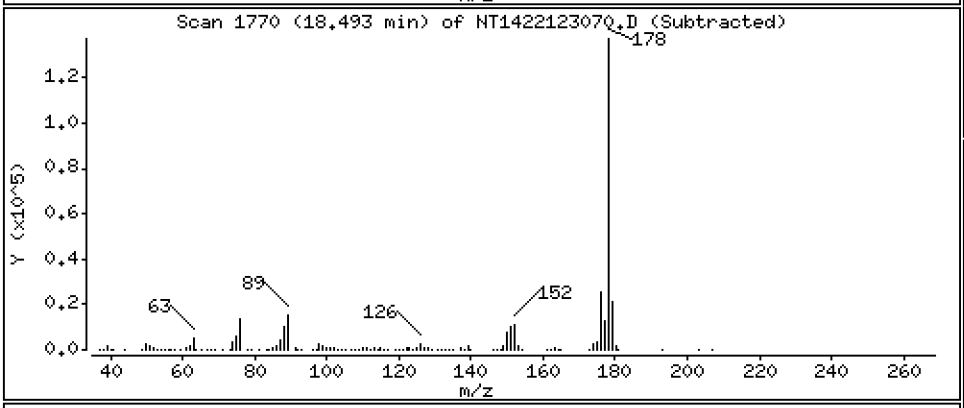
Column diameter: 0.25

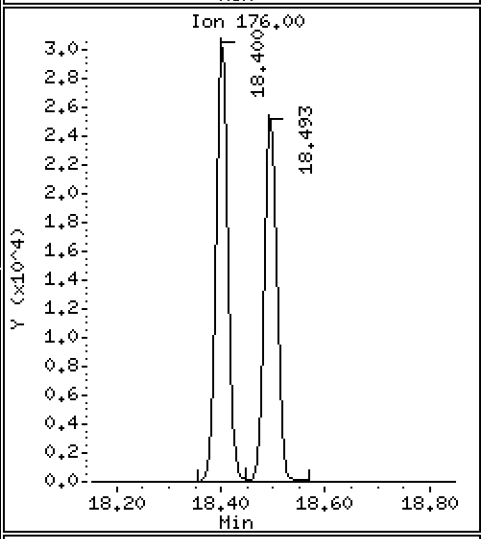
61 Anthracene

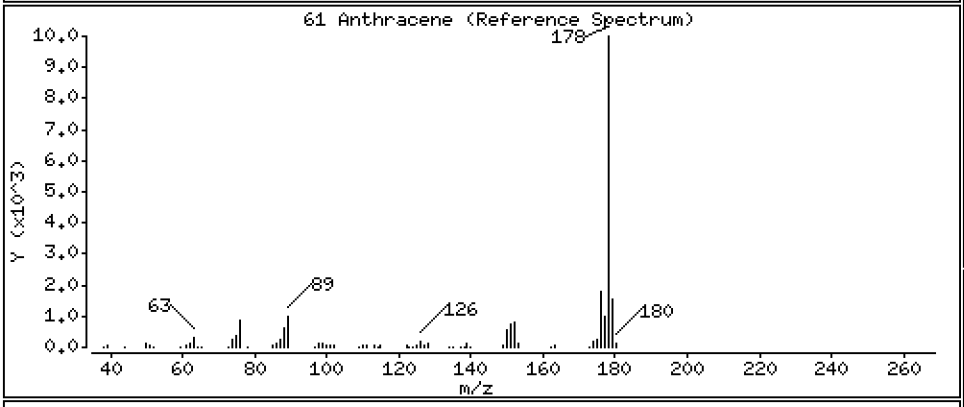
Concentration: 3.427 ug/mL

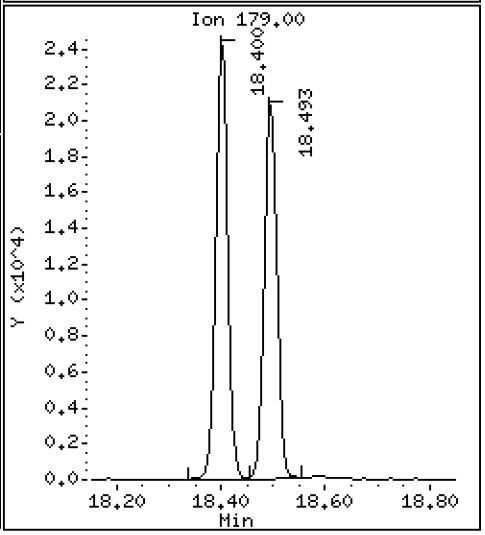


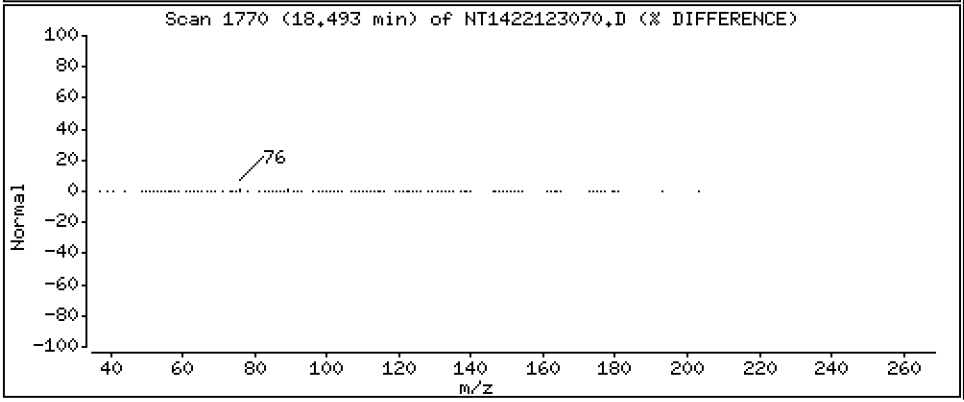












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

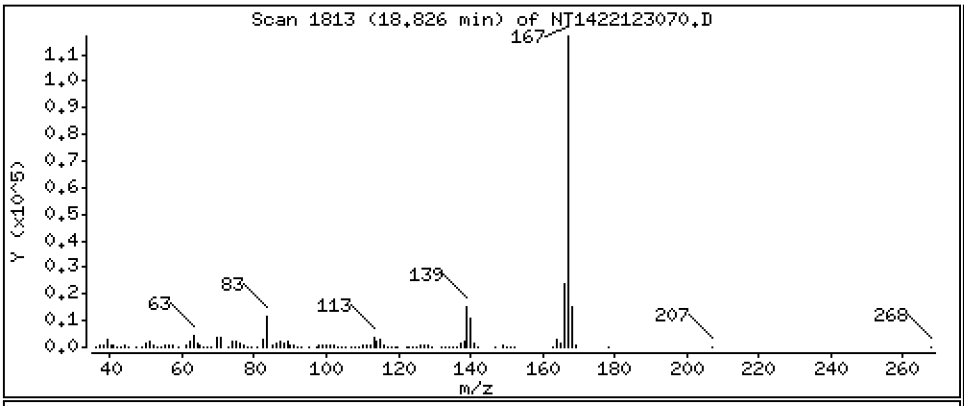
Operator: VTS

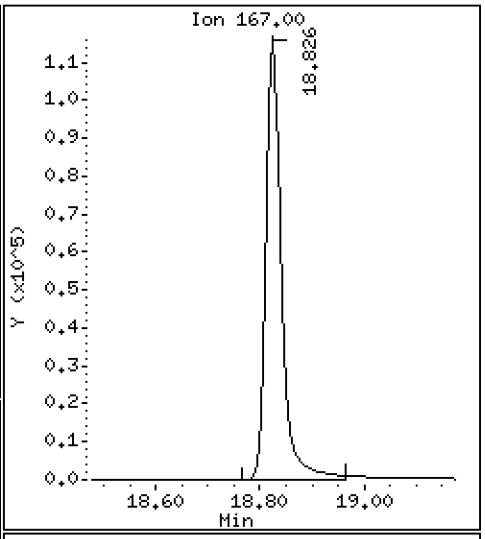
Column phase: ZB-5msi

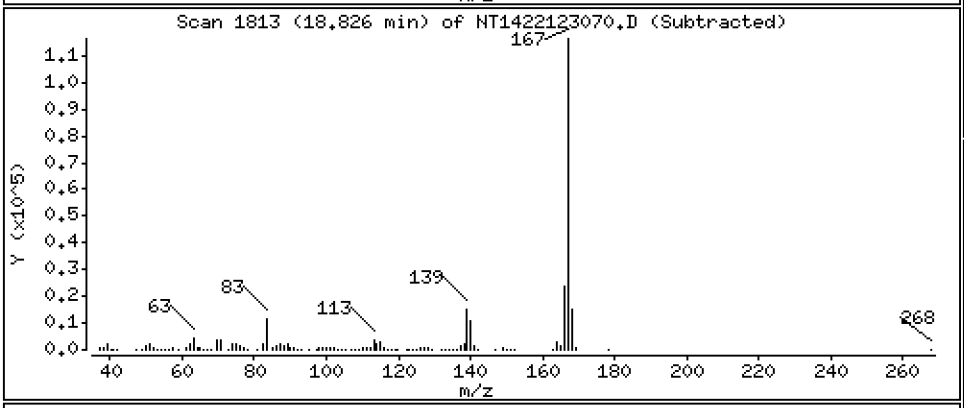
Column diameter: 0.25

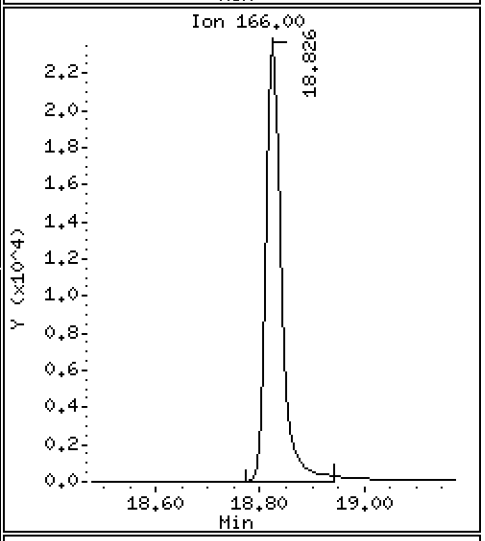
62 Carbazole

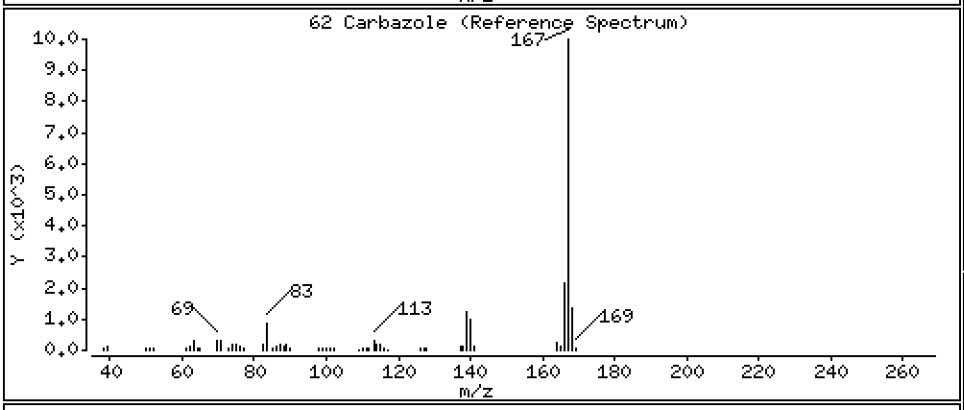
Concentration: 3.671 ug/mL

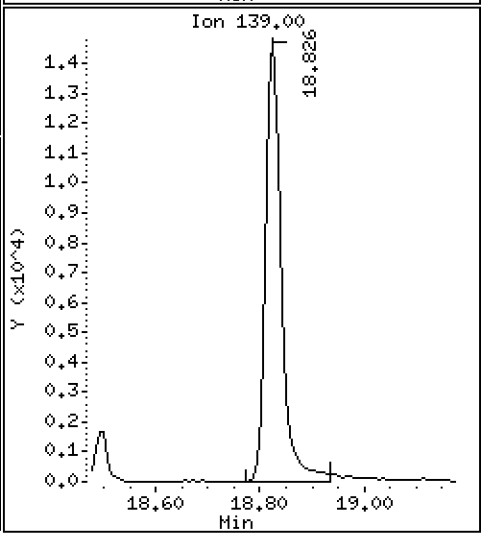


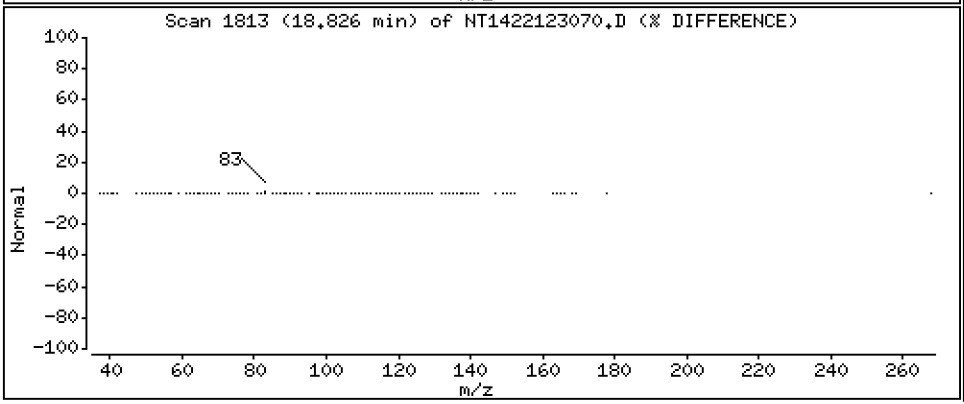












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

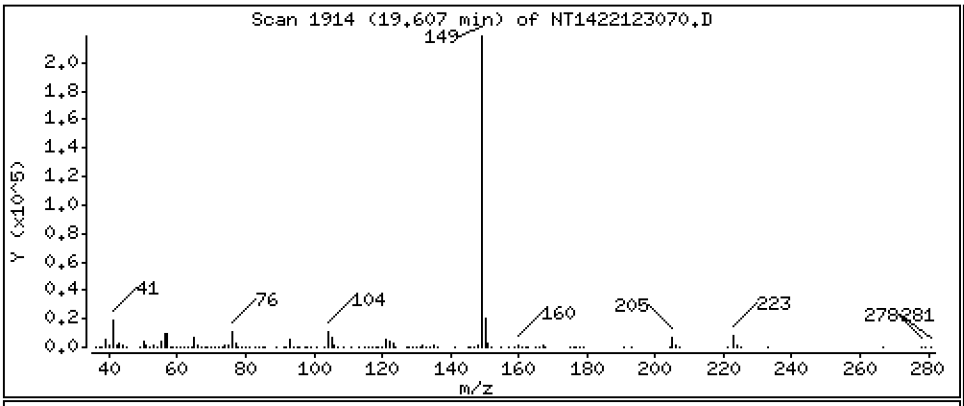
Operator: VTS

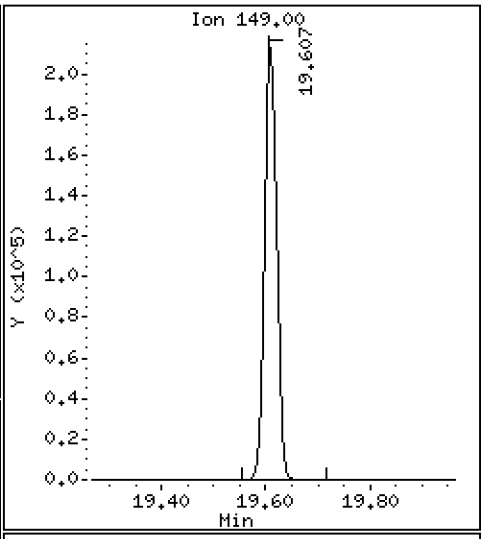
Column phase: ZB-5msi

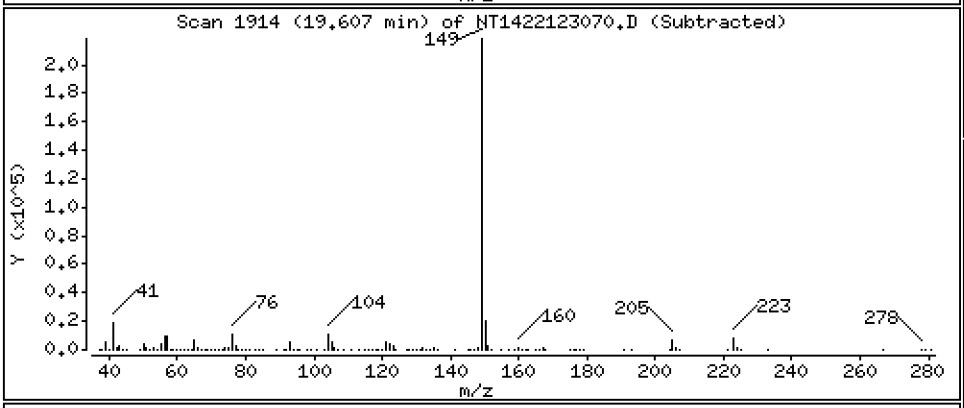
Column diameter: 0.25

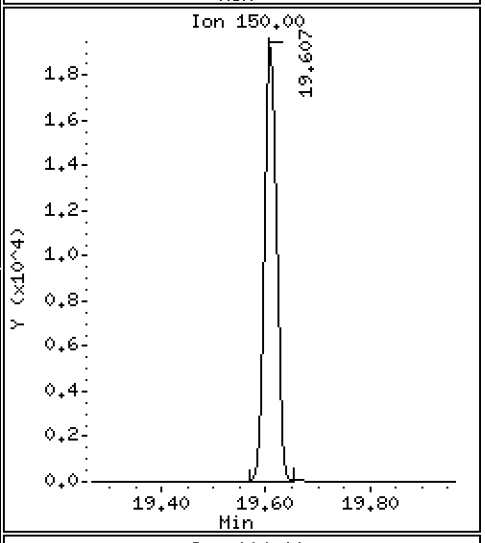
63 Di-n-butylphthalate

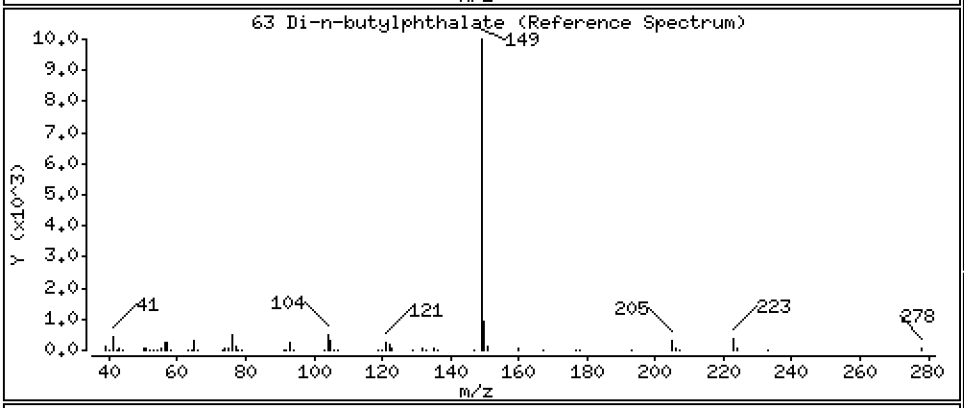
Concentration: 4.524 ug/mL

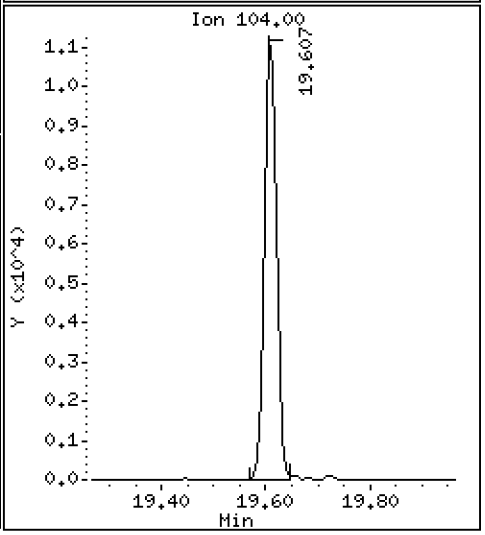


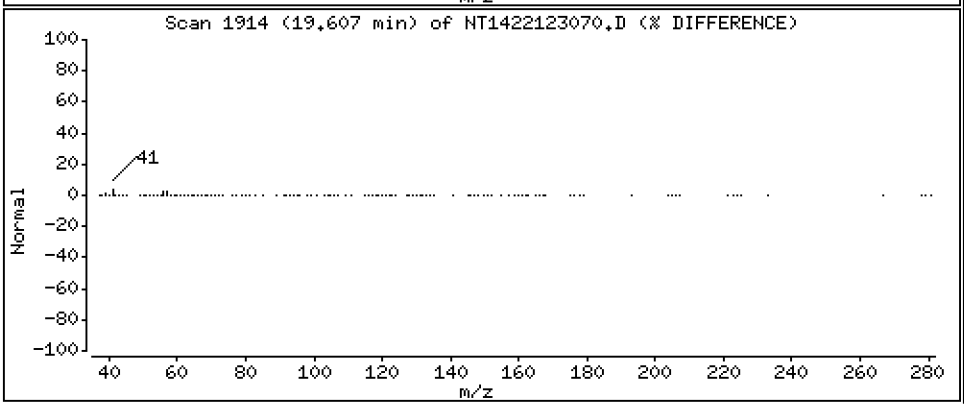












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123070.D

Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

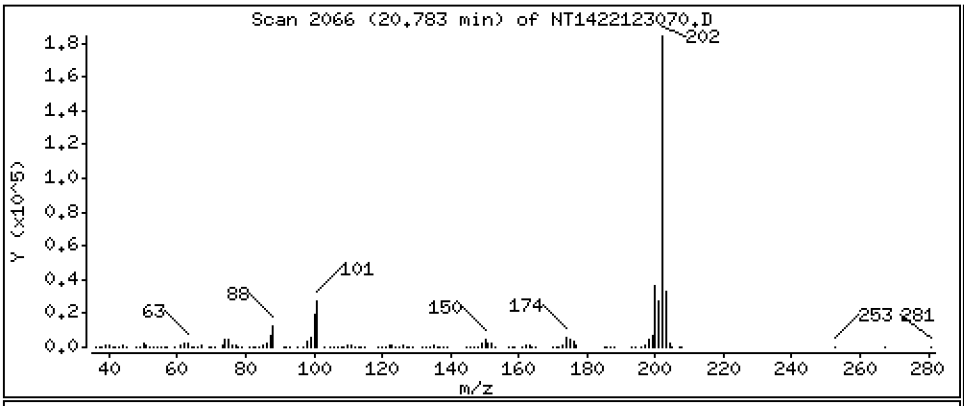
Operator: VTS

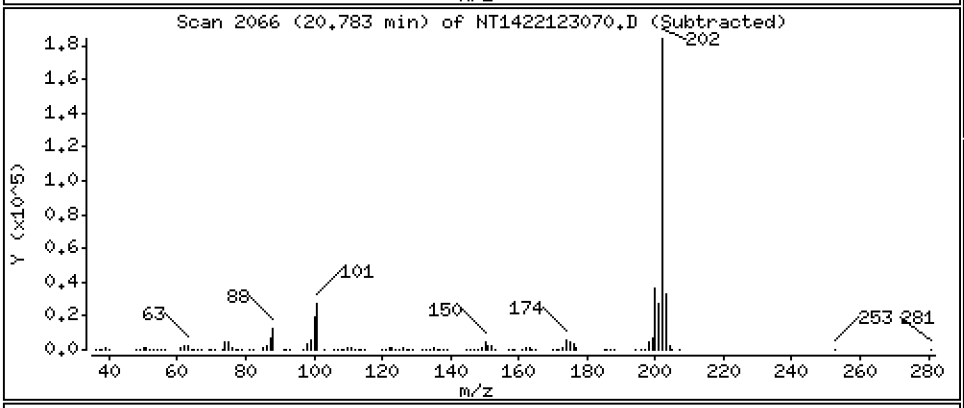
Column phase: ZB-5msi

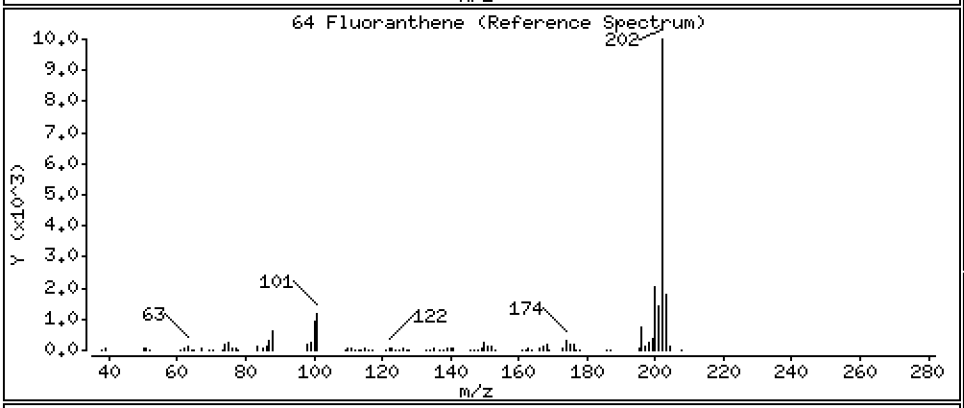
Column diameter: 0.25

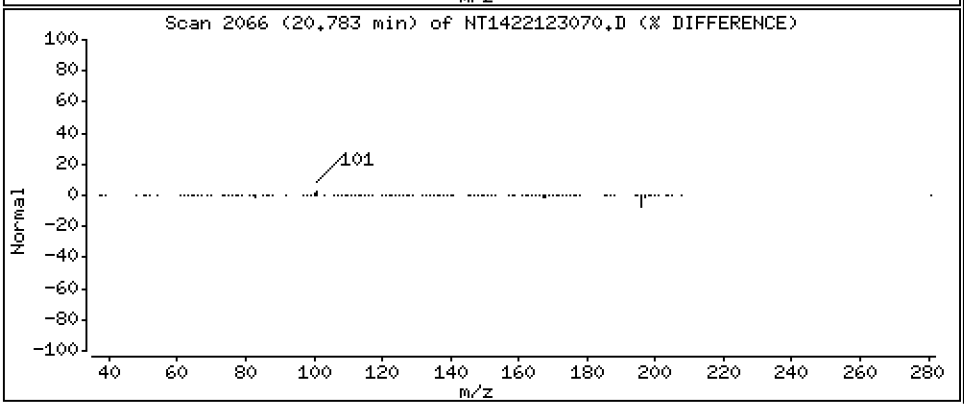
64 Fluoranthene

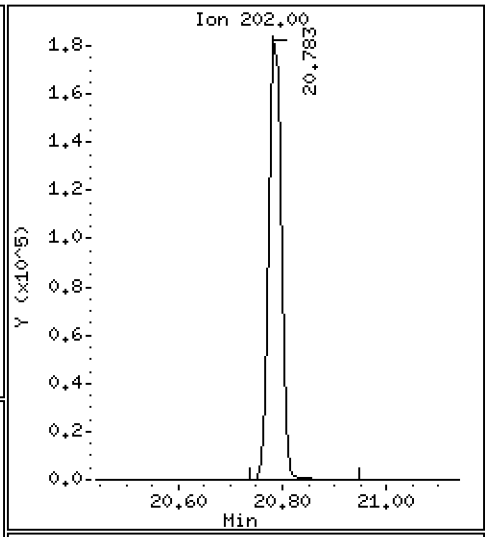
Concentration: 4.204 ug/mL

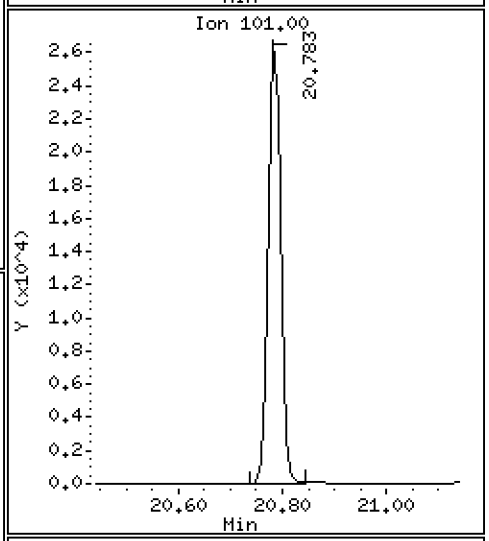


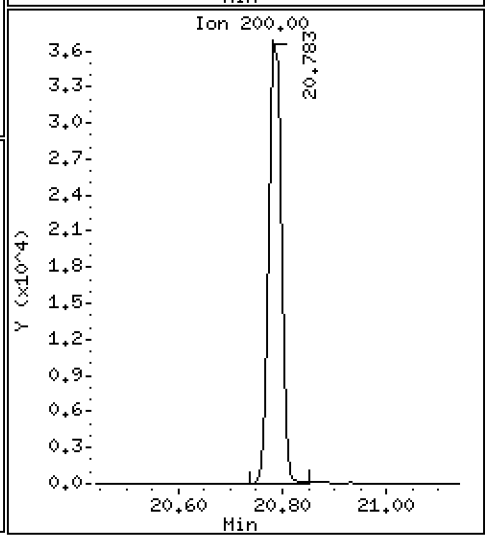












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

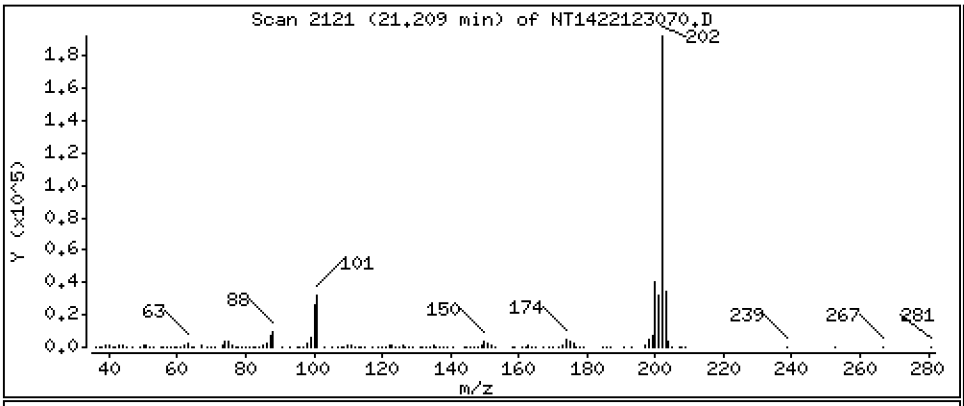
Operator: VTS

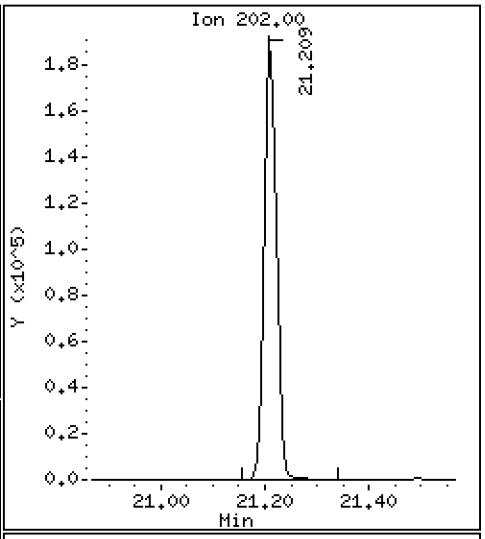
Column phase: ZB-5msi

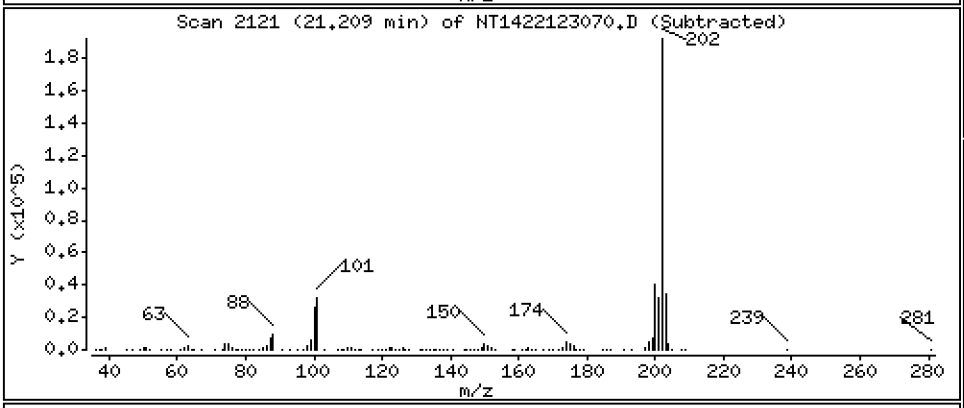
Column diameter: 0.25

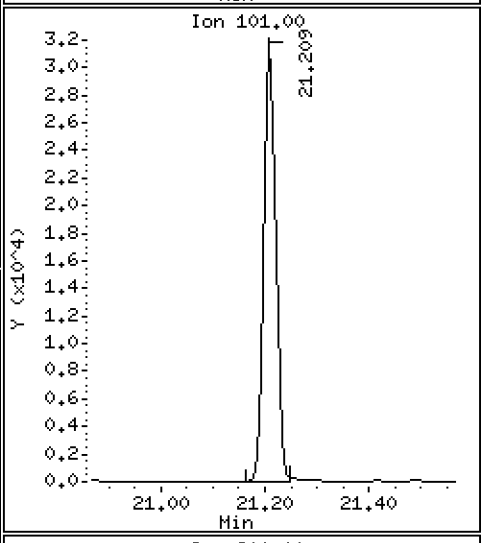
65 Pyrene

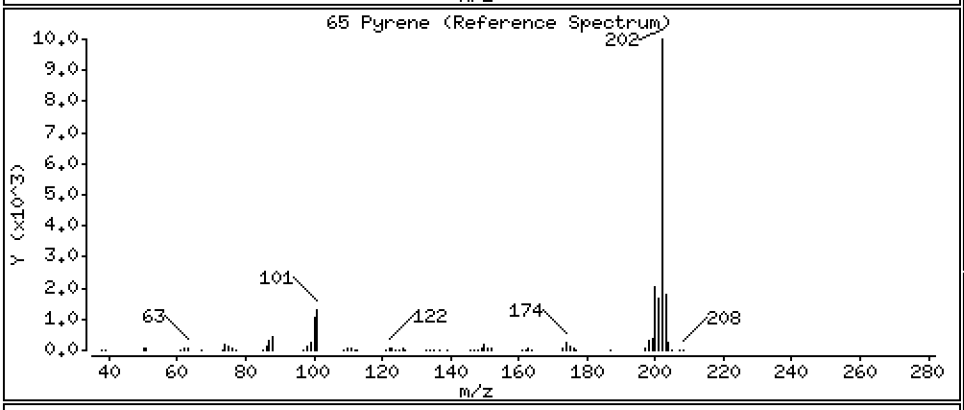
Concentration: 4.153 ug/mL

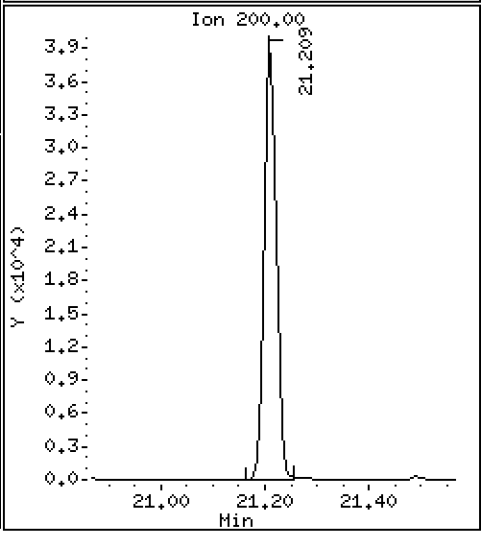


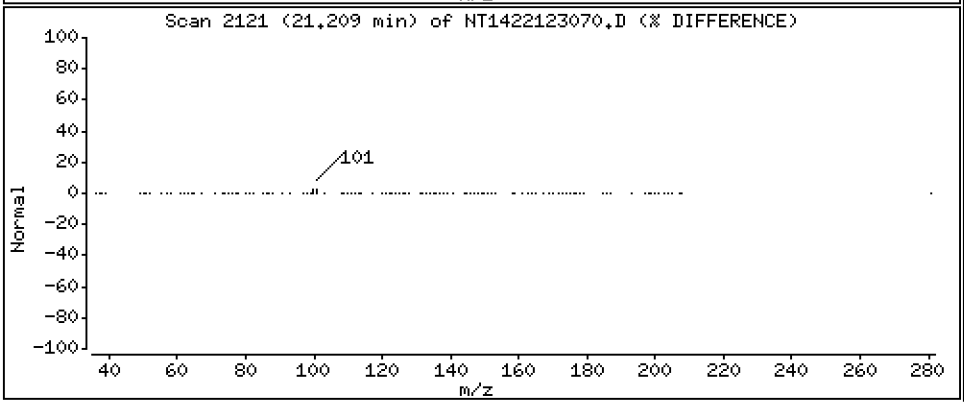












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

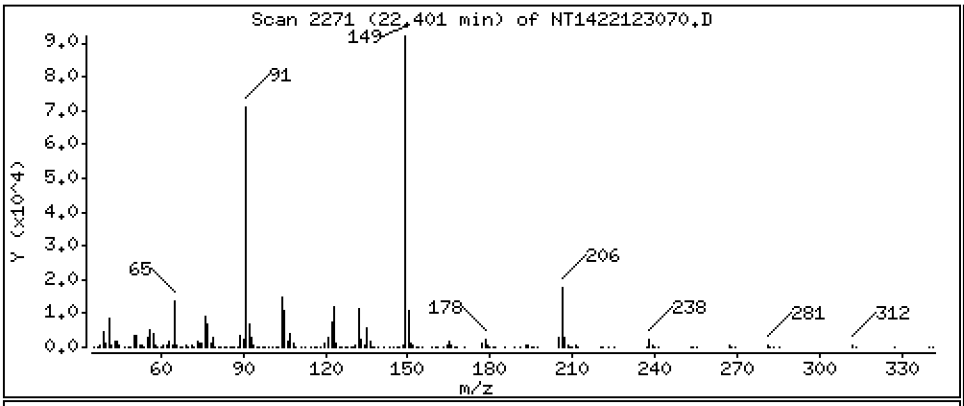
Operator: VTS

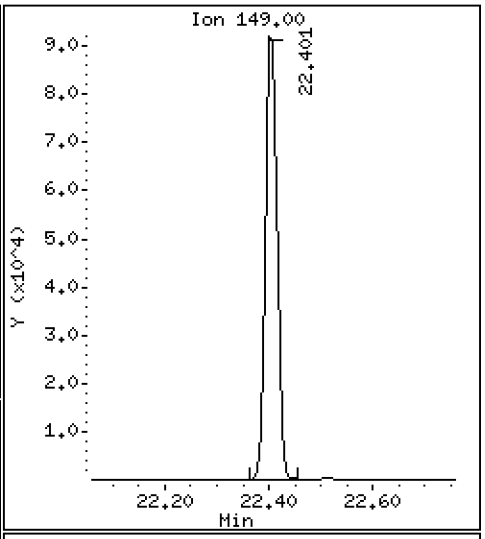
Column phase: ZB-5msi

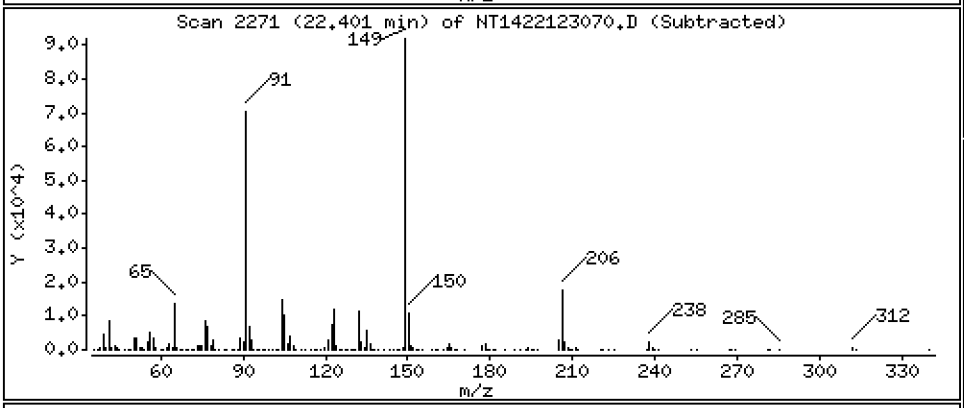
Column diameter: 0.25

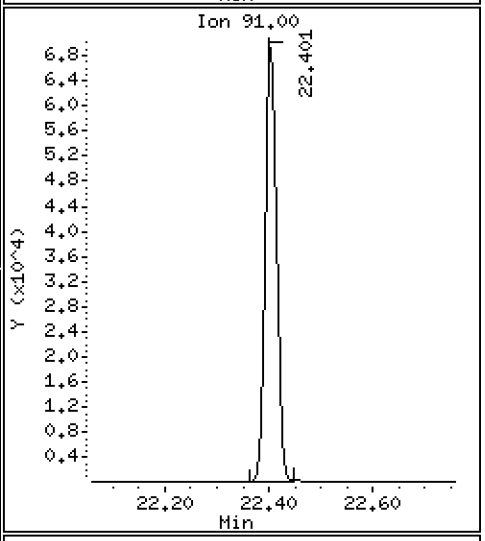
67 Butylbenzylphthalate

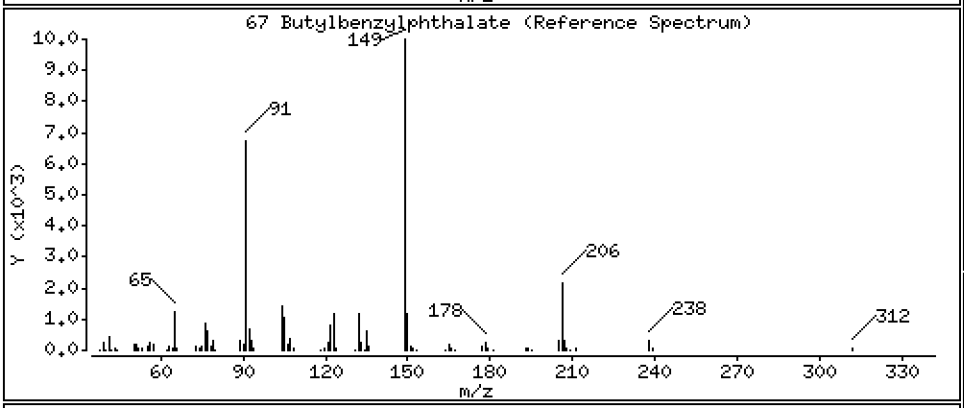
Concentration: 4.908 ug/mL

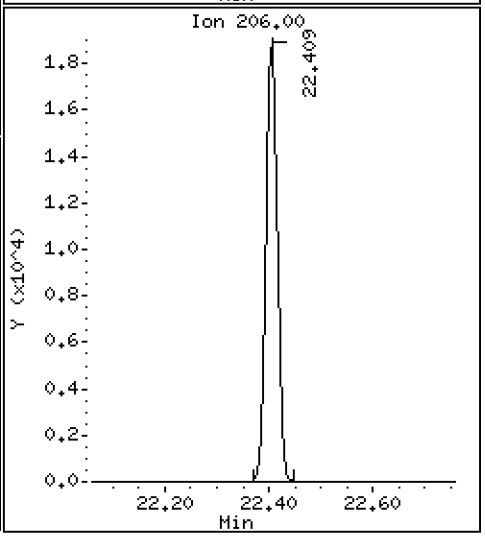


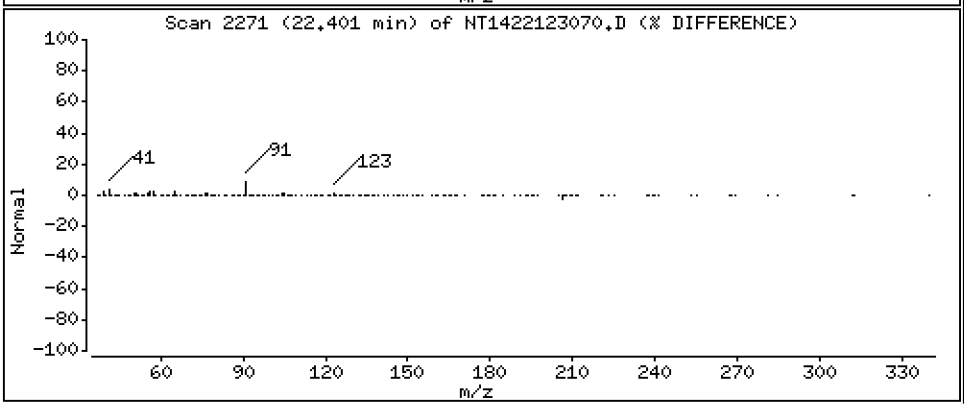












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

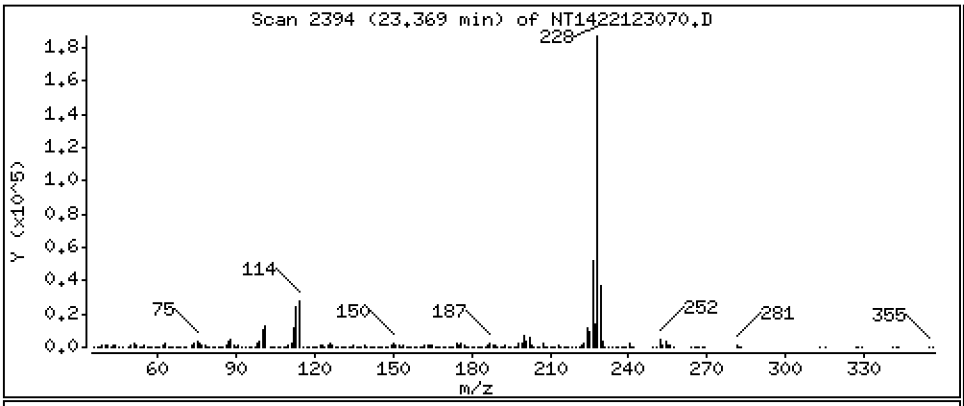
Operator: VTS

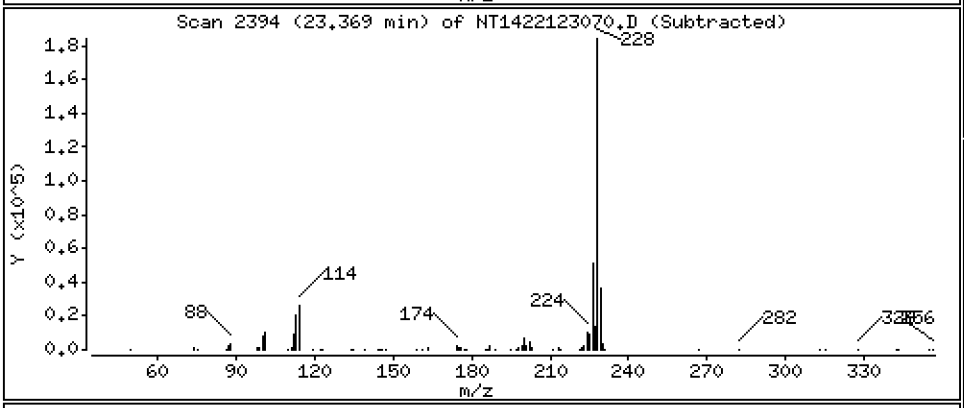
Column phase: ZB-5msi

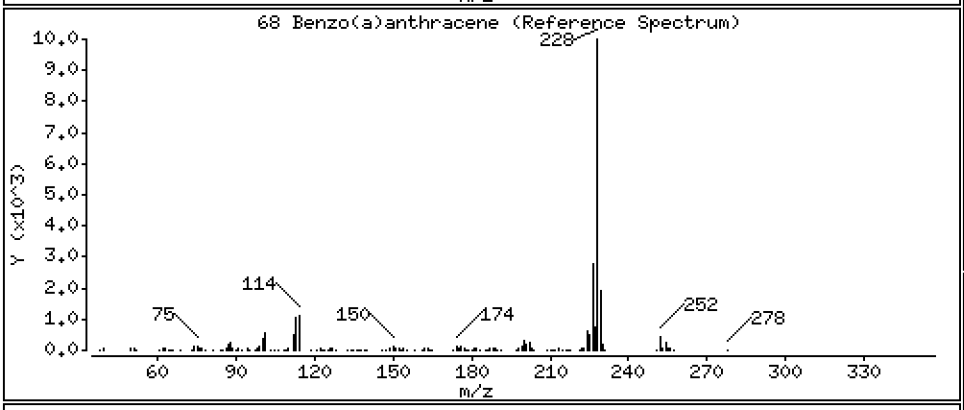
Column diameter: 0.25

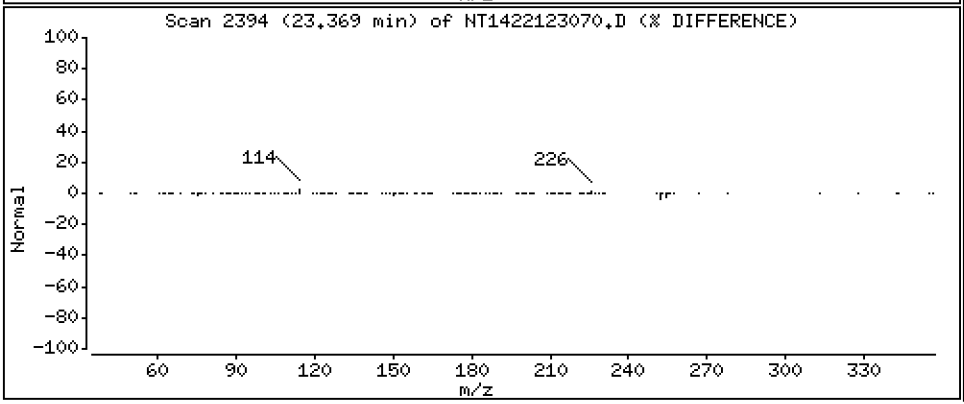
68 Benzo(a)anthracene

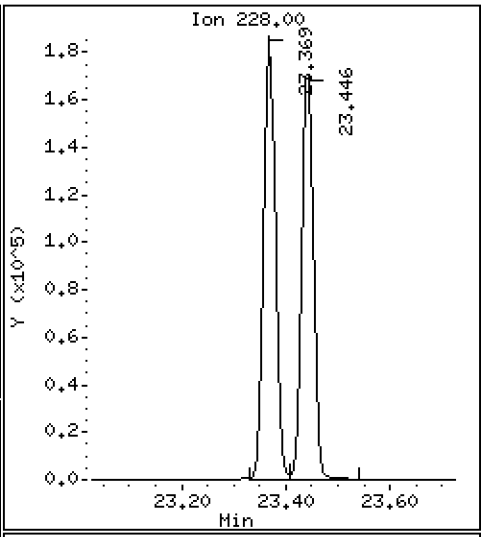
Concentration: 4.203 ug/mL

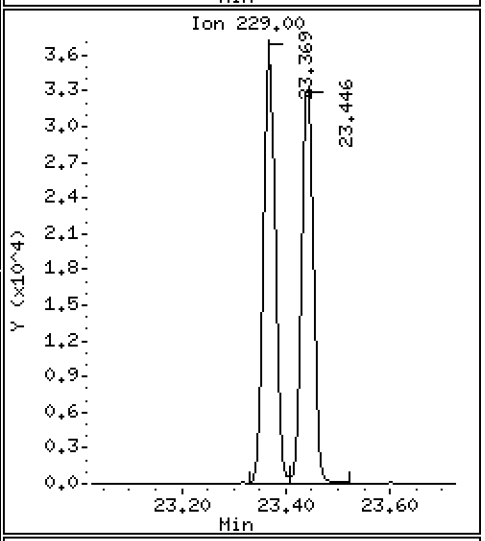


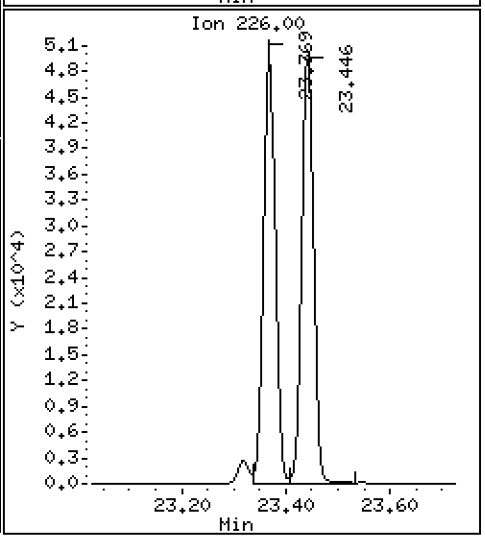












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

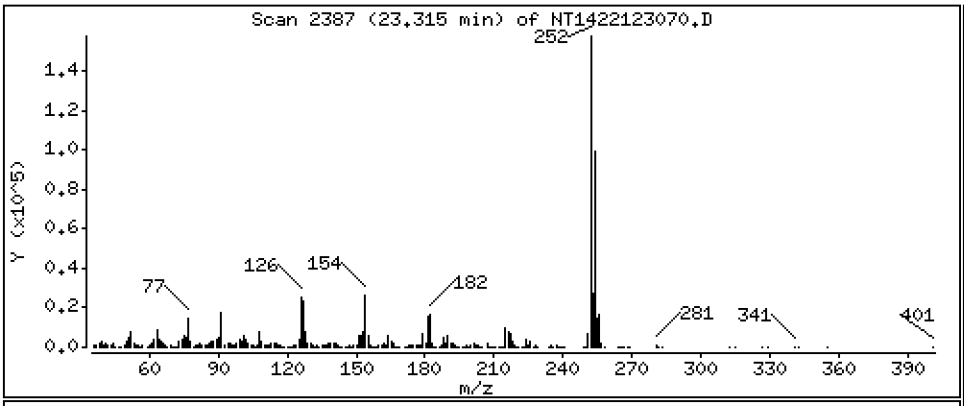
Operator: VTS

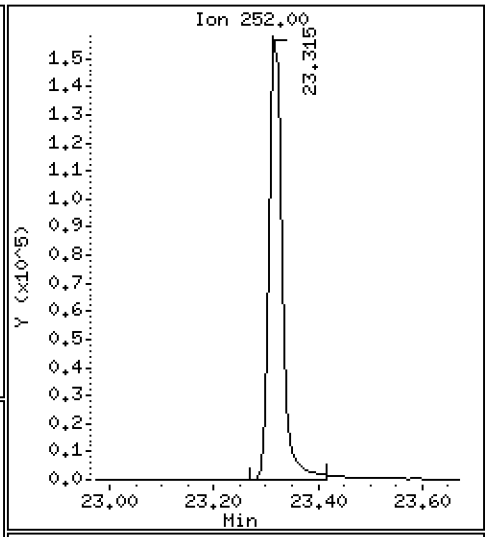
Column phase: ZB-5msi

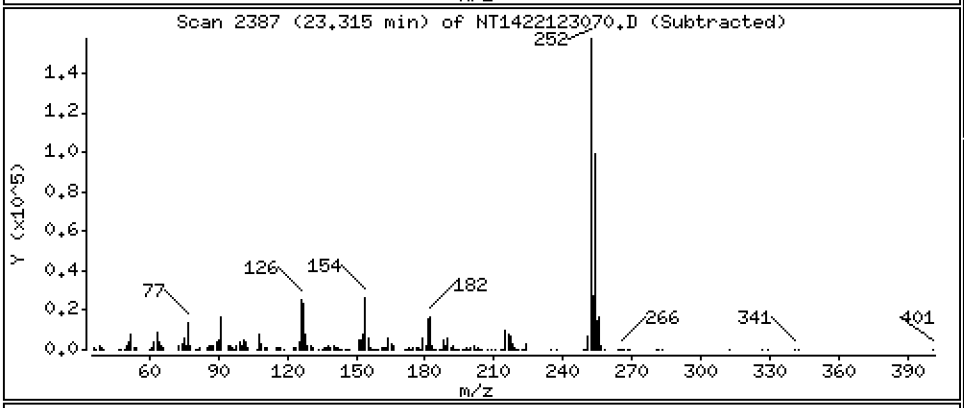
Column diameter: 0.25

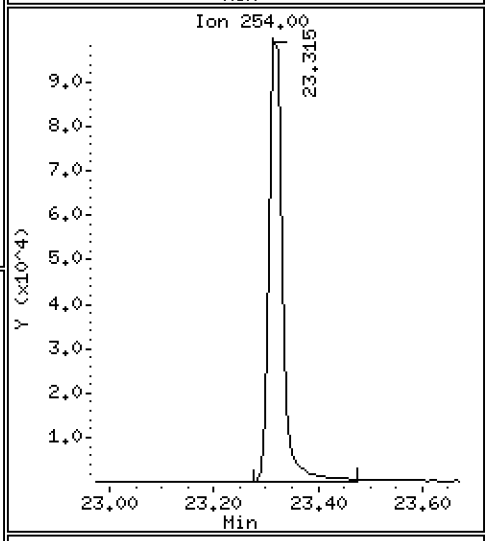
70 3,3'-Dichlorobenzidine

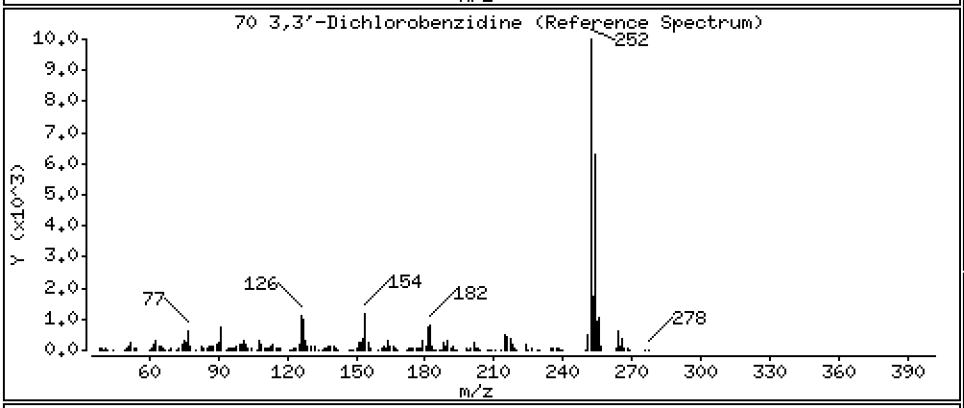
Concentration: 13.23 ug/mL

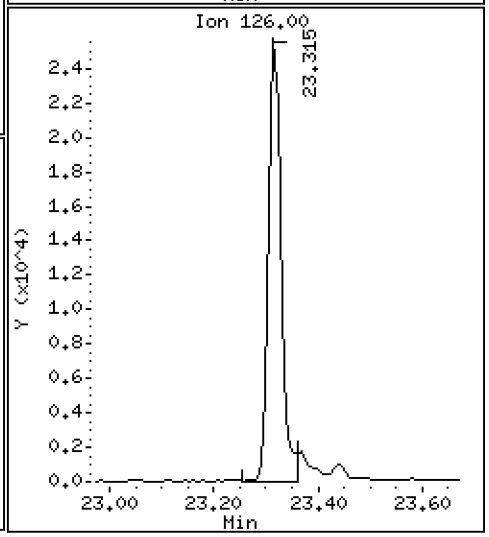


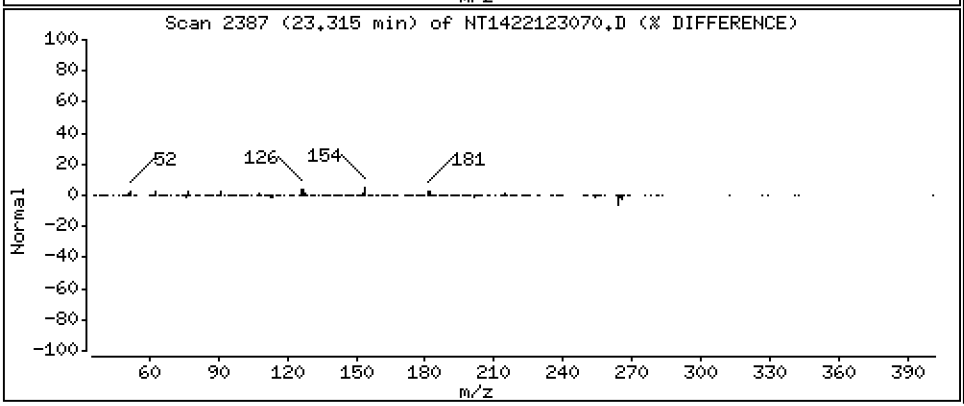












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

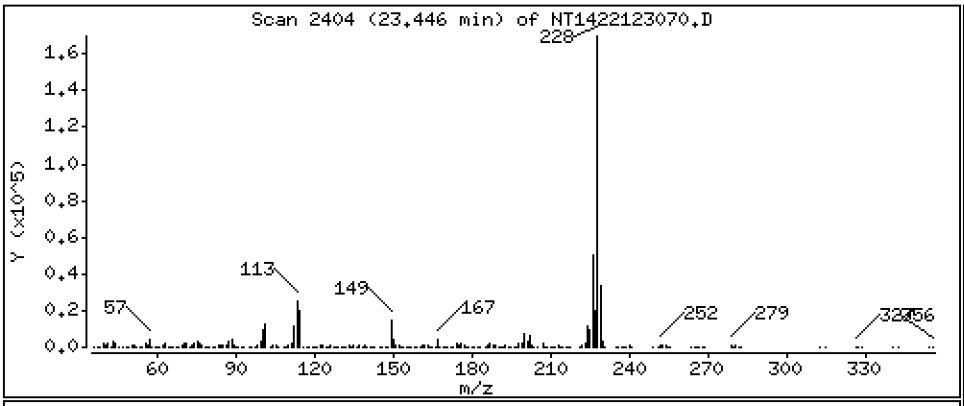
Operator: VTS

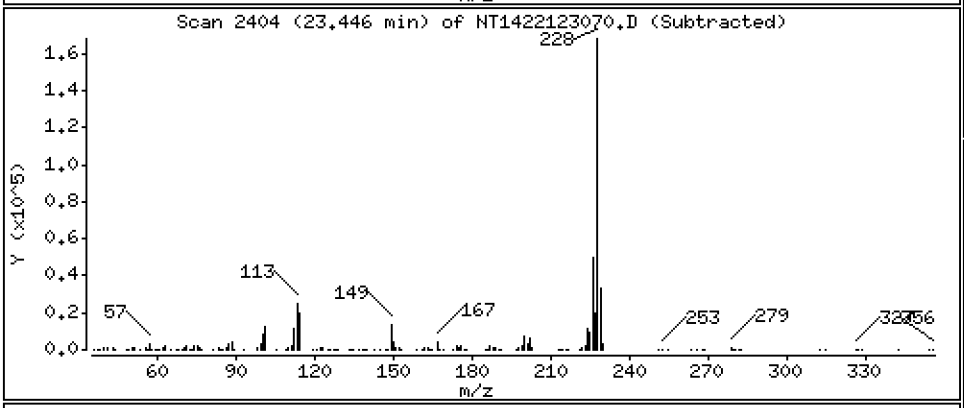
Column phase: ZB-5msi

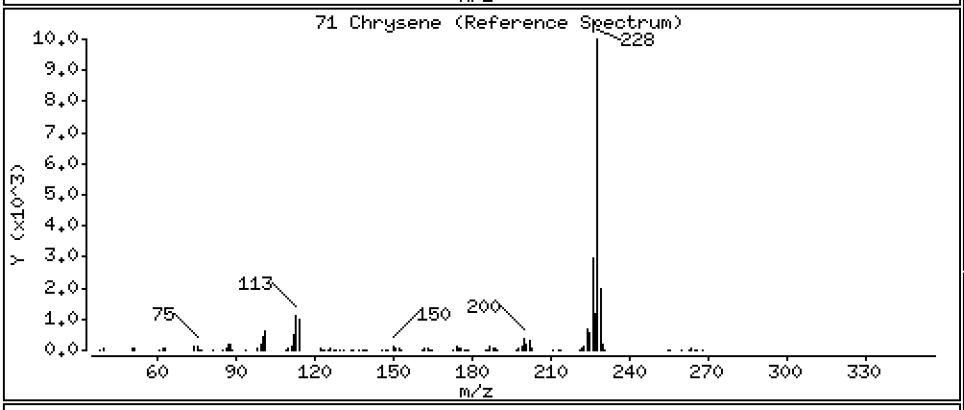
Column diameter: 0.25

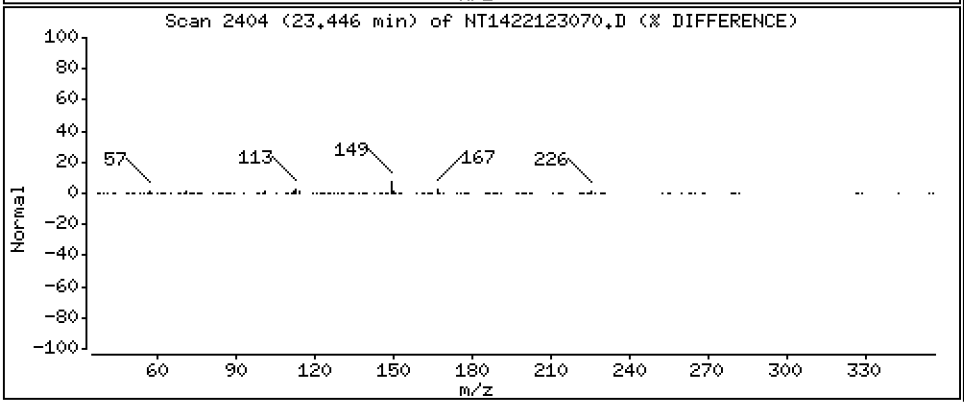
71 Chrysene

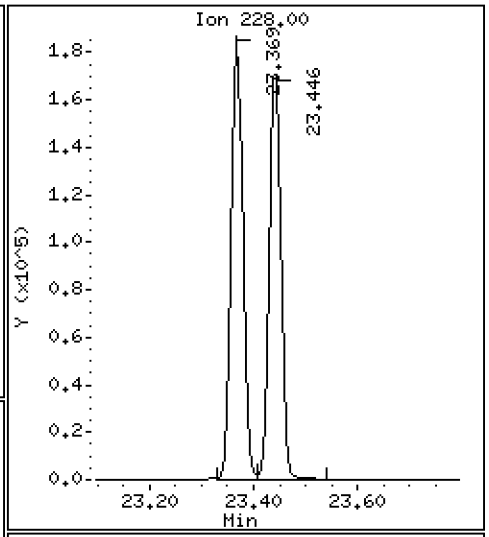
Concentration: 4.211 ug/mL

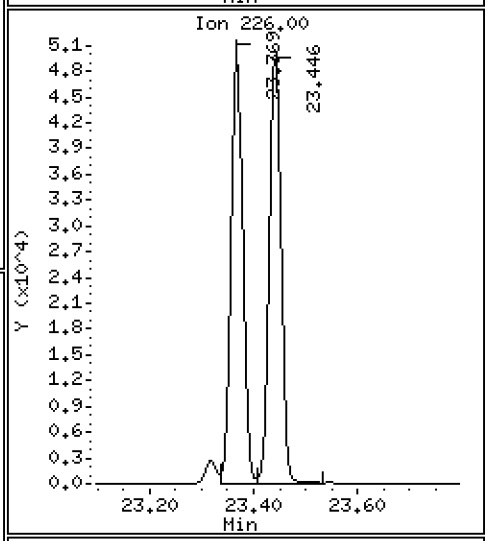


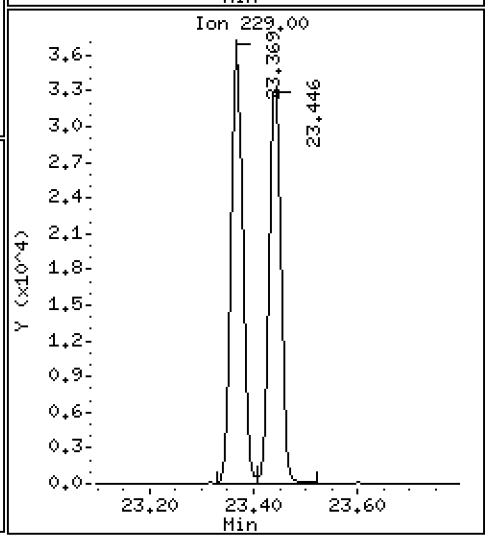












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

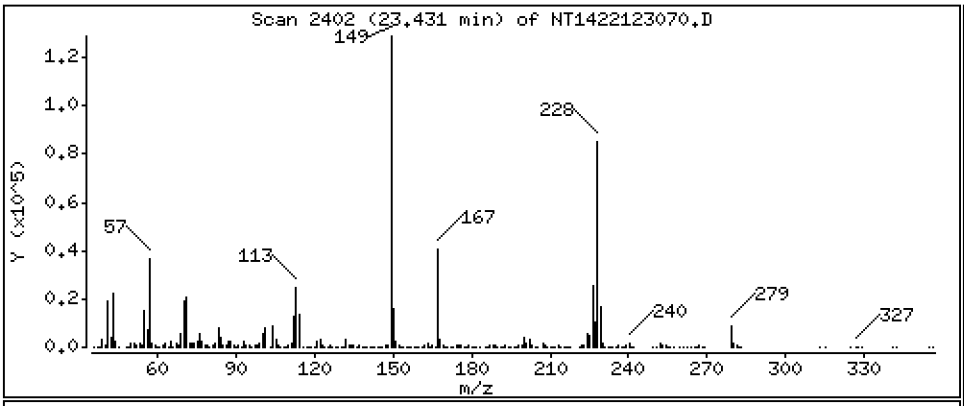
Operator: VTS

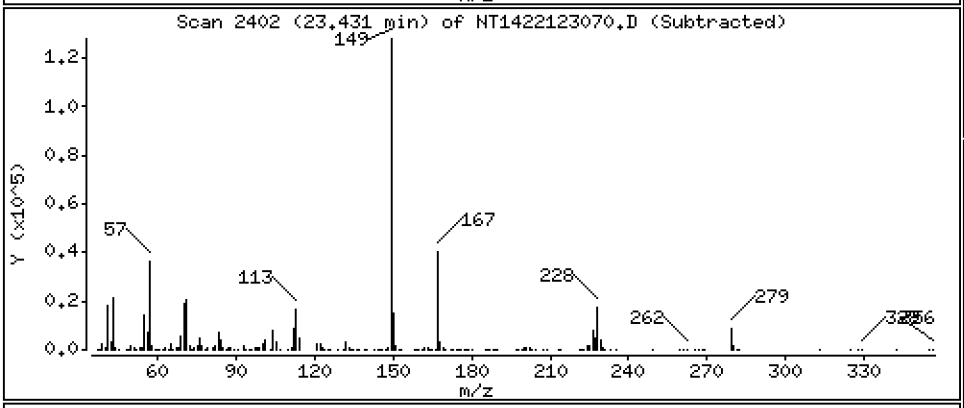
Column phase: ZB-5msi

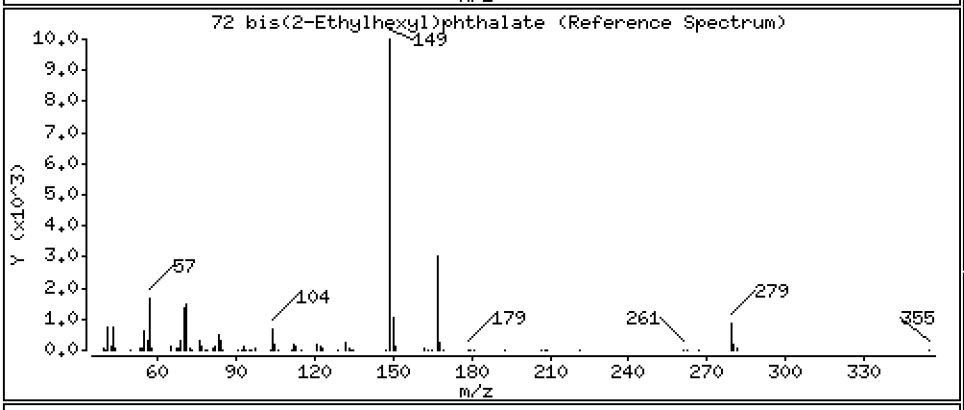
Column diameter: 0.25

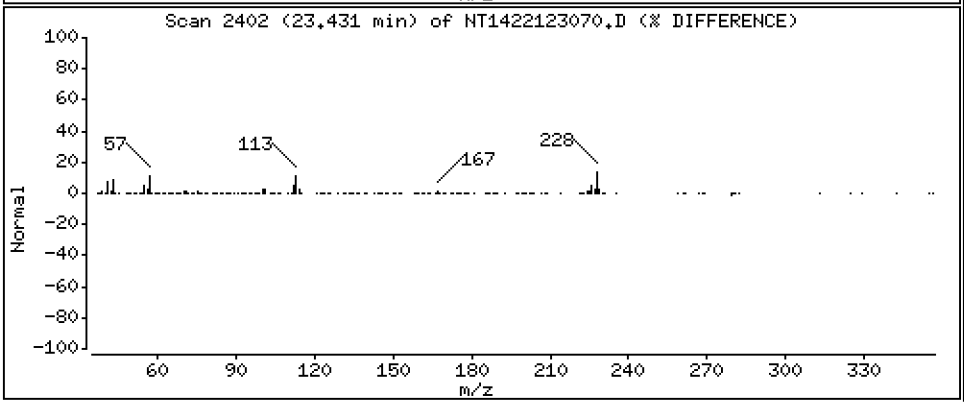
72 bis(2-Ethylhexyl)phthalate

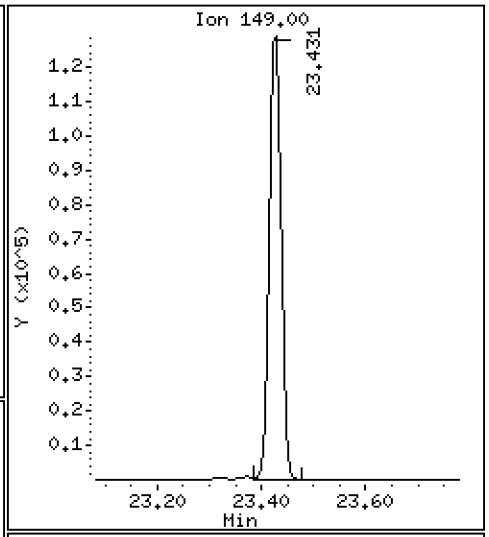
Concentration: 4.886 ug/mL

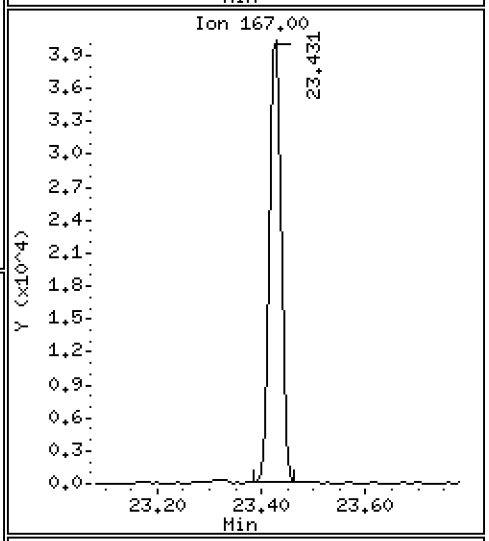


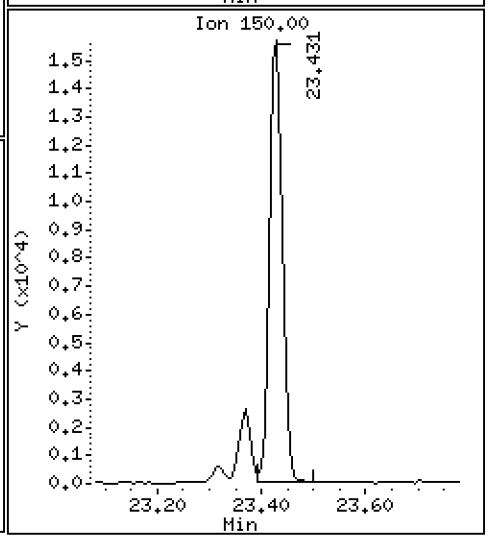












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123070.D

Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

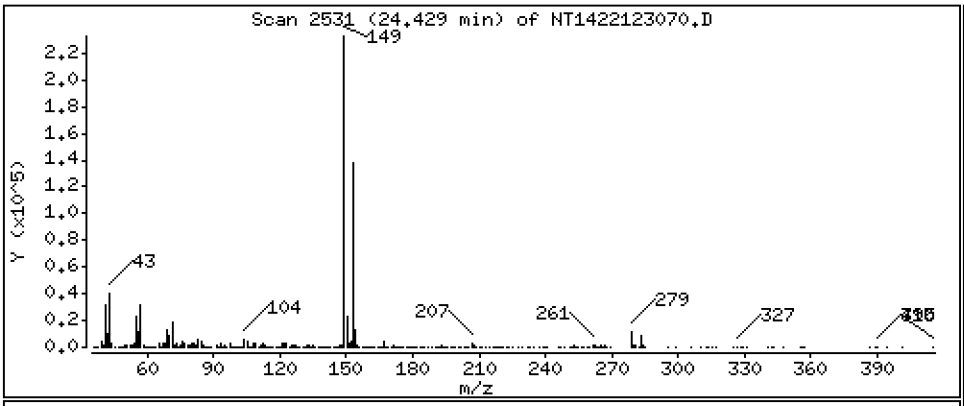
Operator: VTS

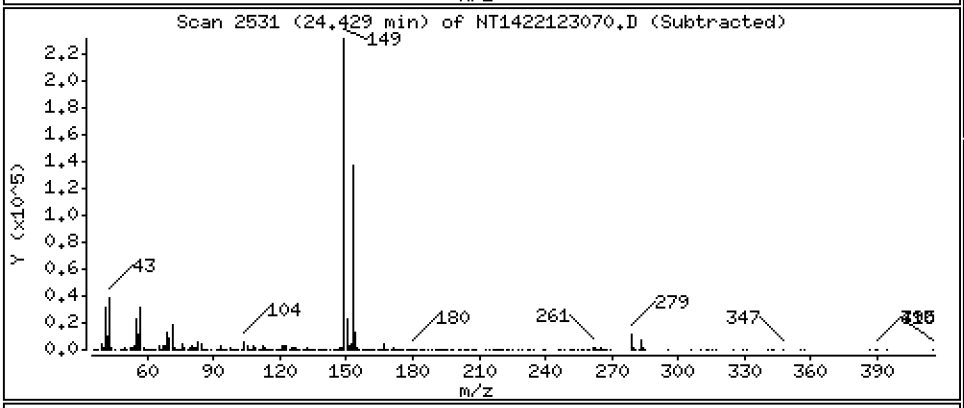
Column phase: ZB-5msi

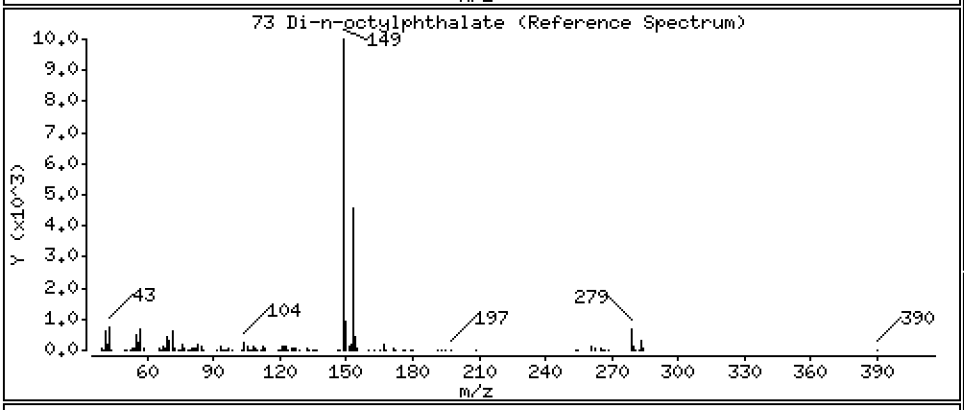
Column diameter: 0.25

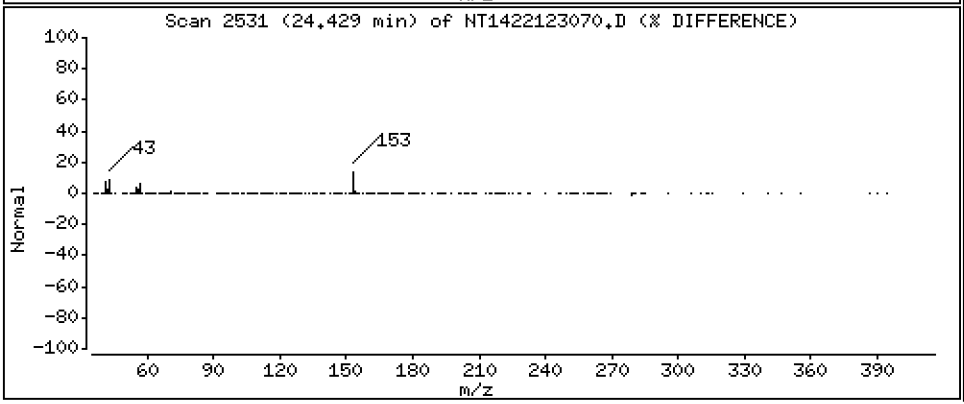
73 Di-n-octylphthalate

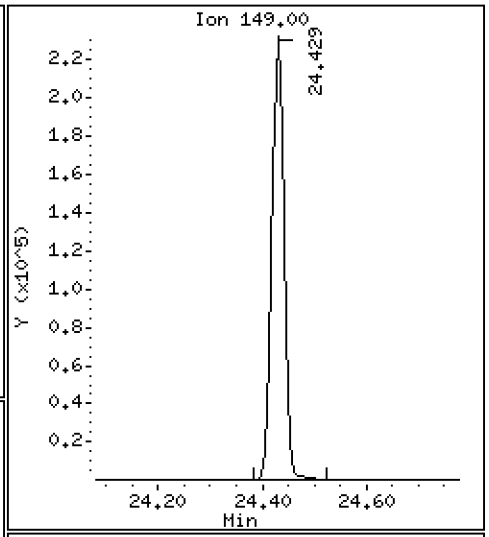
Concentration: 4.154 ug/mL

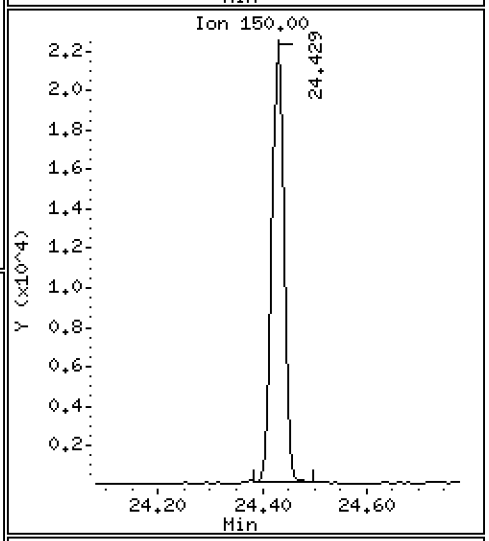


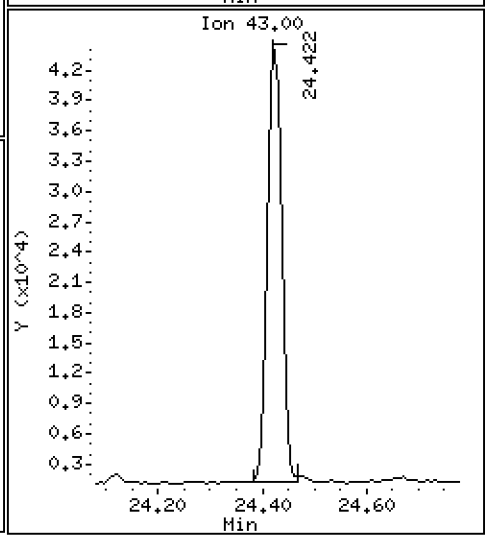












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

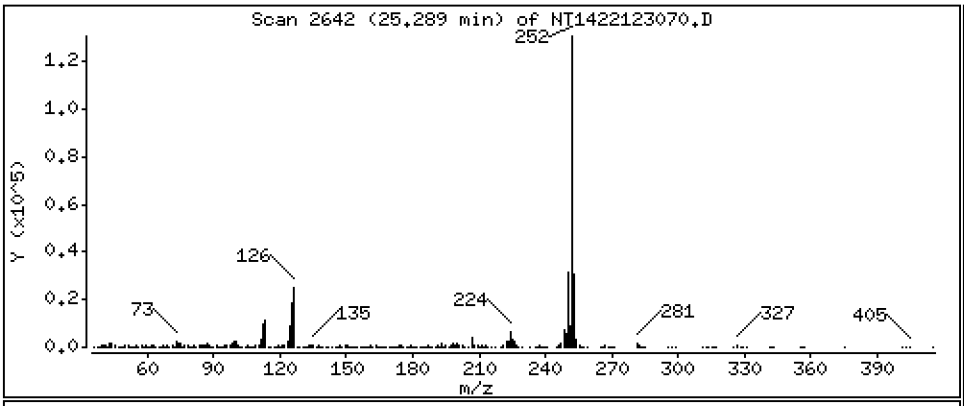
Operator: VTS

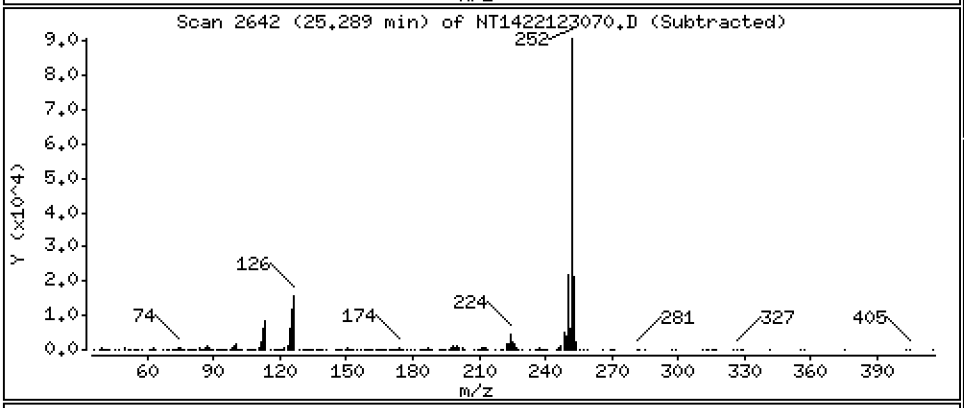
Column phase: ZB-5msi

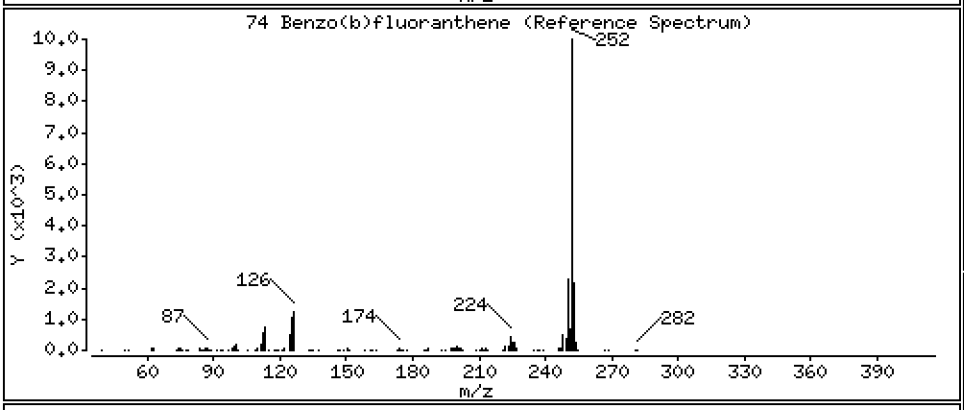
Column diameter: 0.25

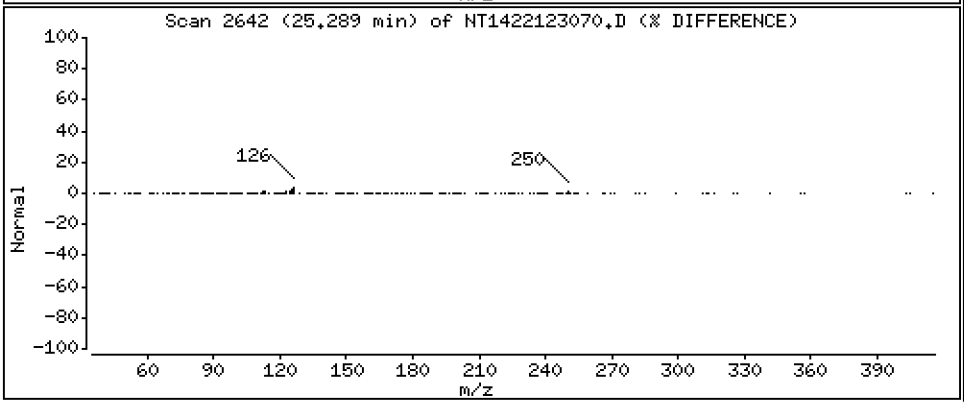
74 Benzo(b)fluoranthene

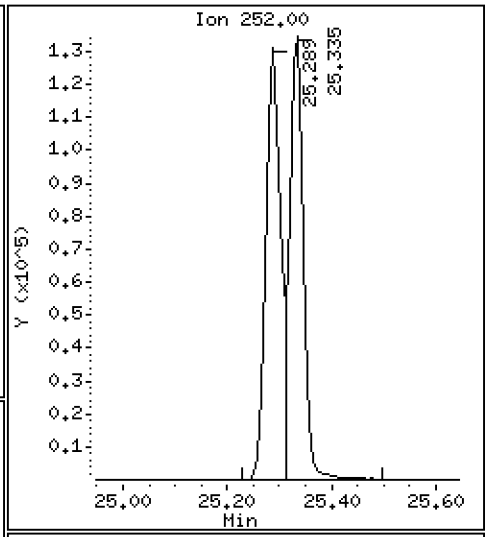
Concentration: 4.531 ug/mL

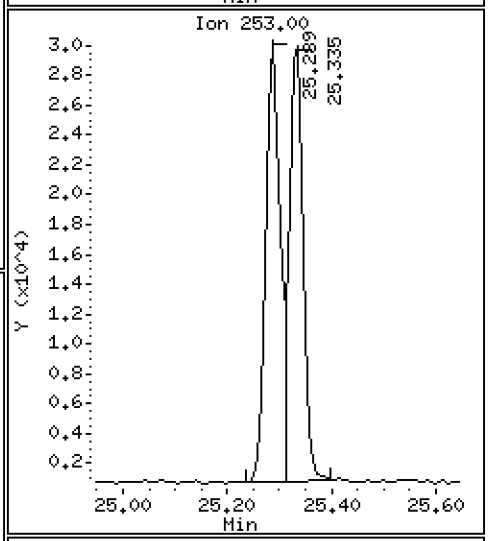


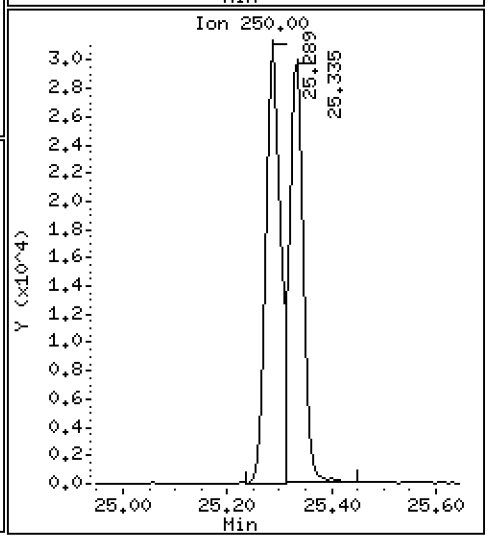












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

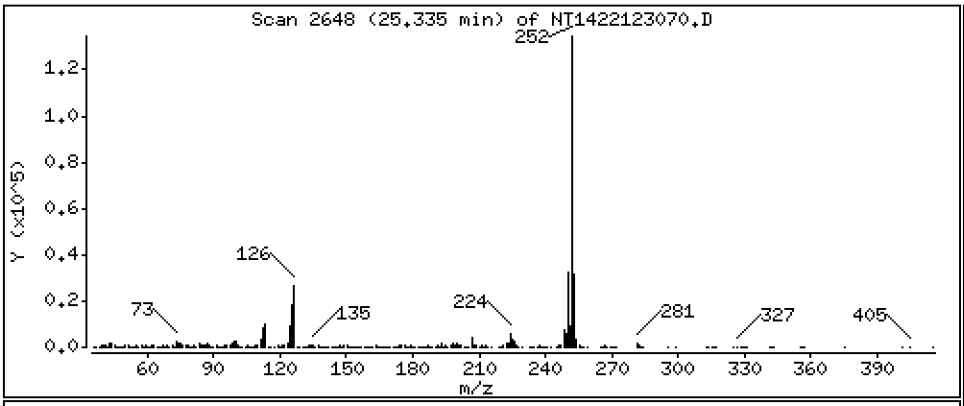
Operator: VTS

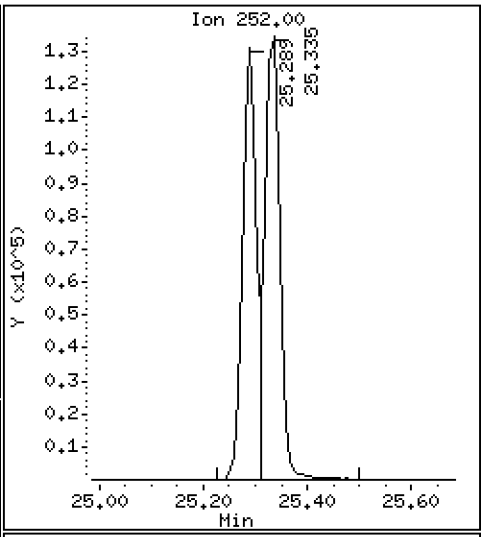
Column phase: ZB-5msi

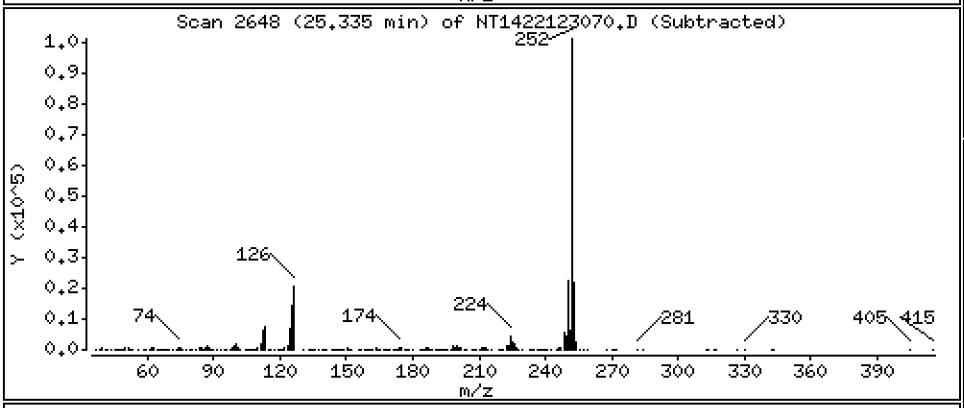
Column diameter: 0.25

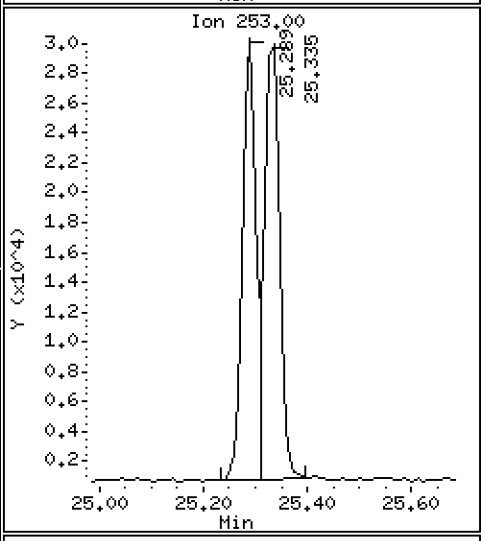
75 Benzo(k)fluoranthene

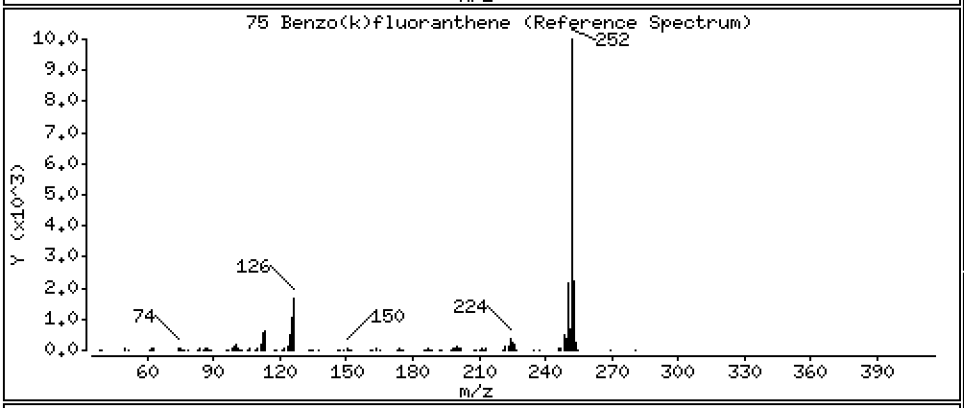
Concentration: 4.502 ug/mL

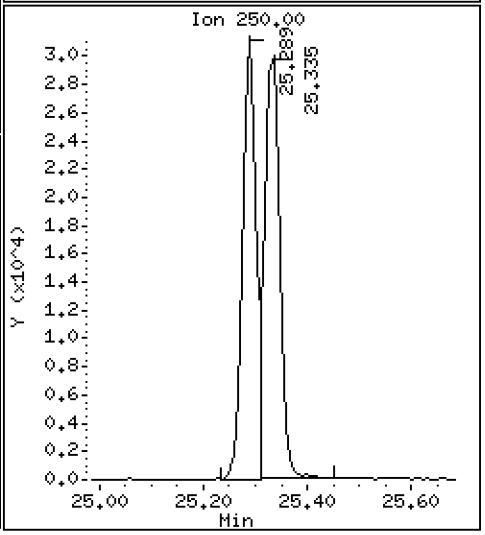


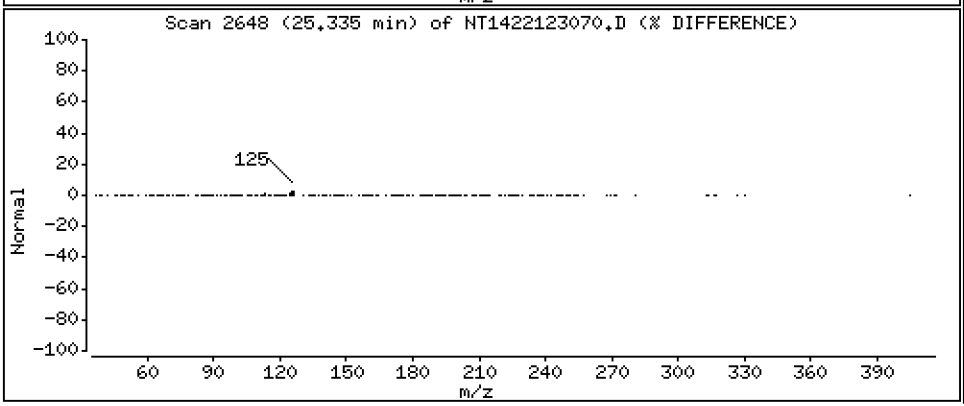












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

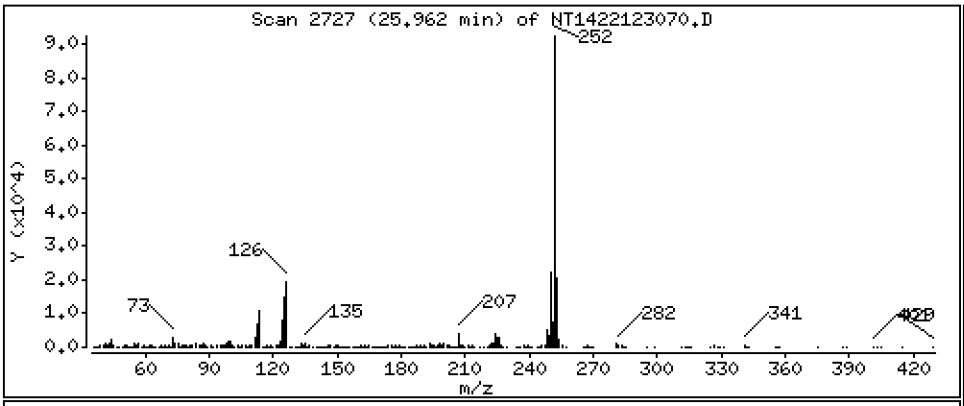
Operator: VTS

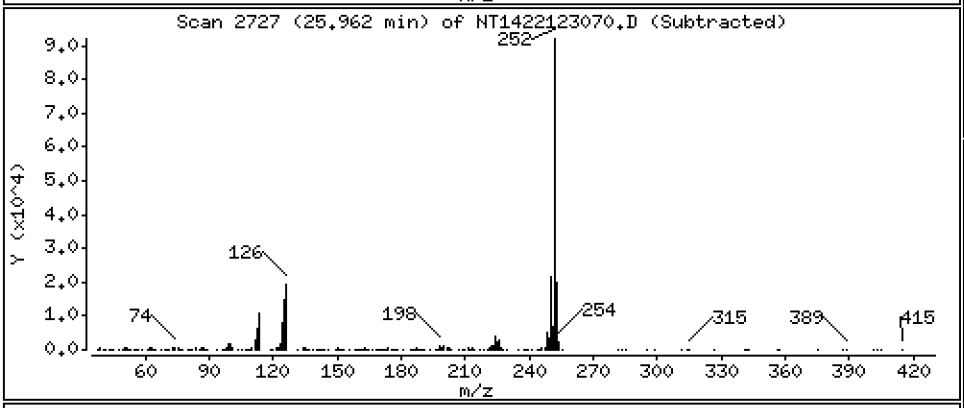
Column phase: ZB-5msi

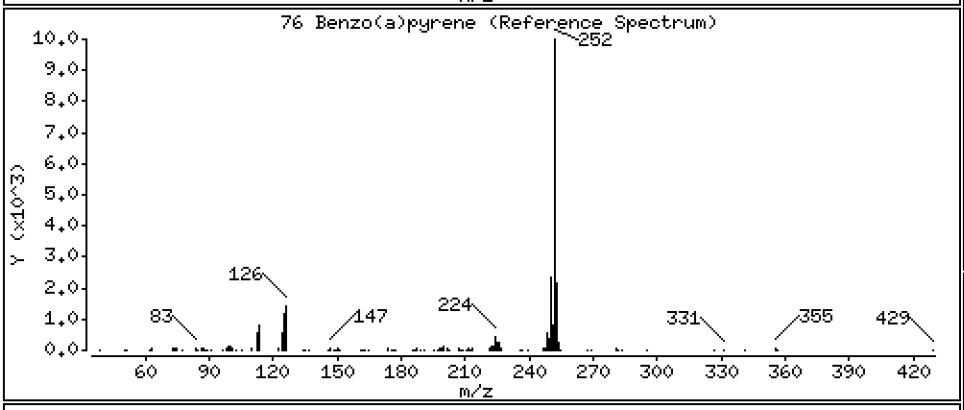
Column diameter: 0.25

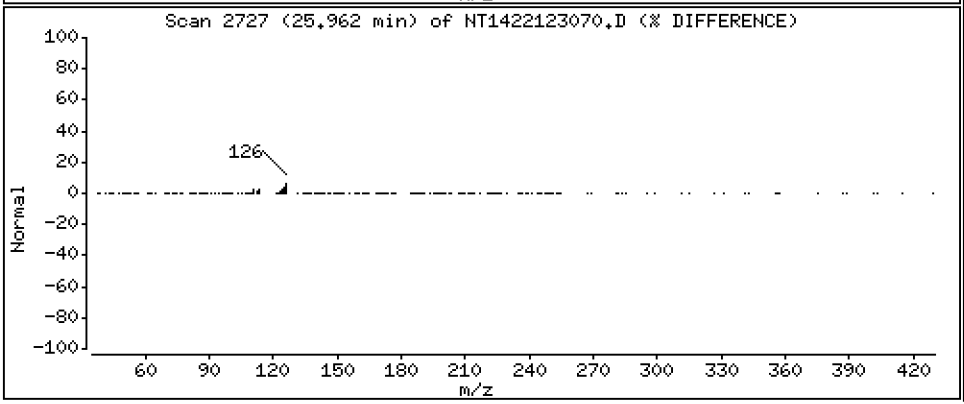
76 Benzo(a)pyrene

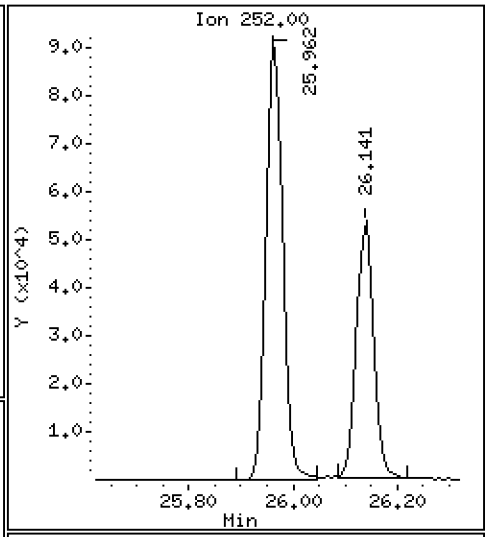
Concentration: 4.170 ug/mL

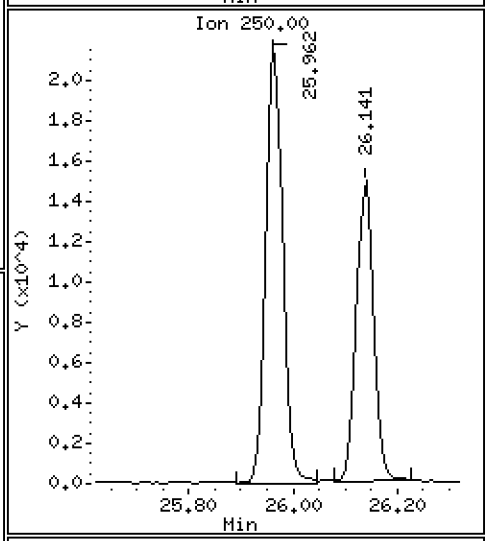


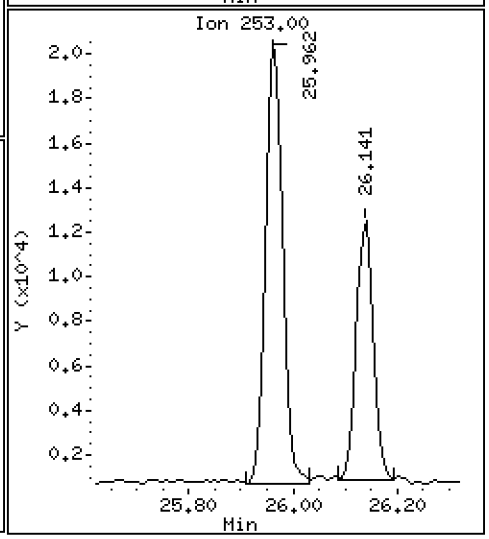












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

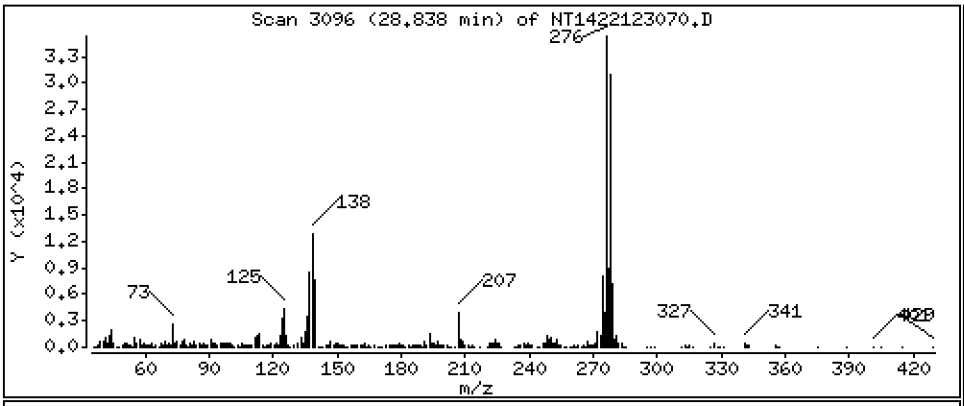
Operator: VTS

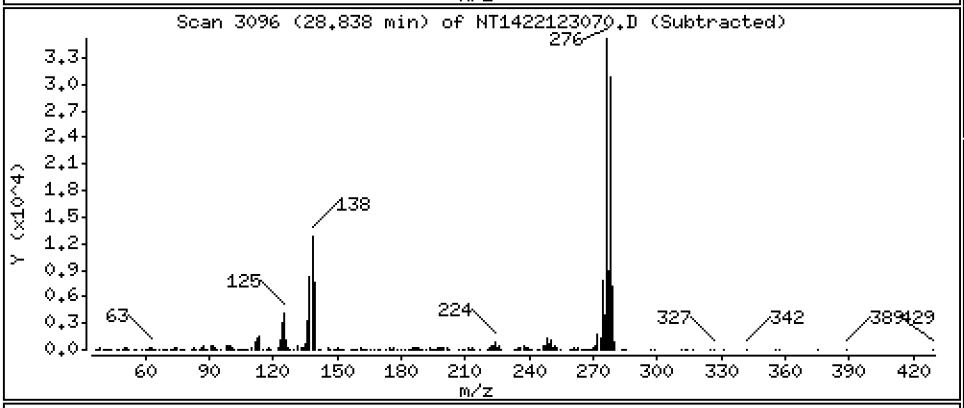
Column phase: ZB-5msi

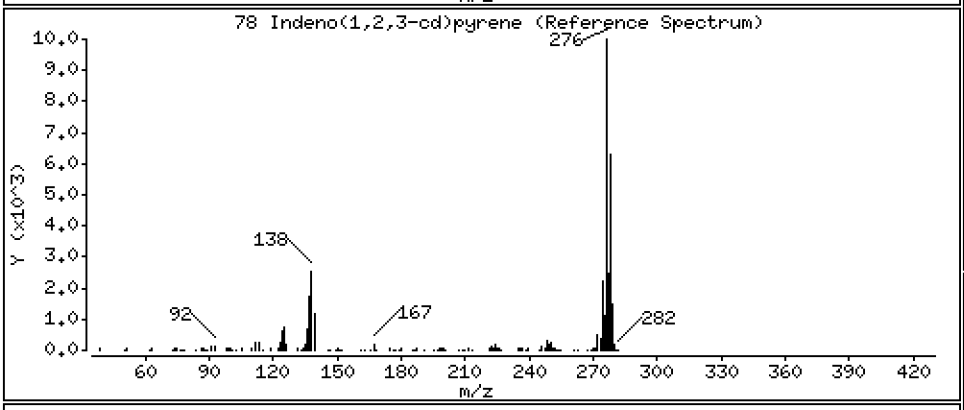
Column diameter: 0.25

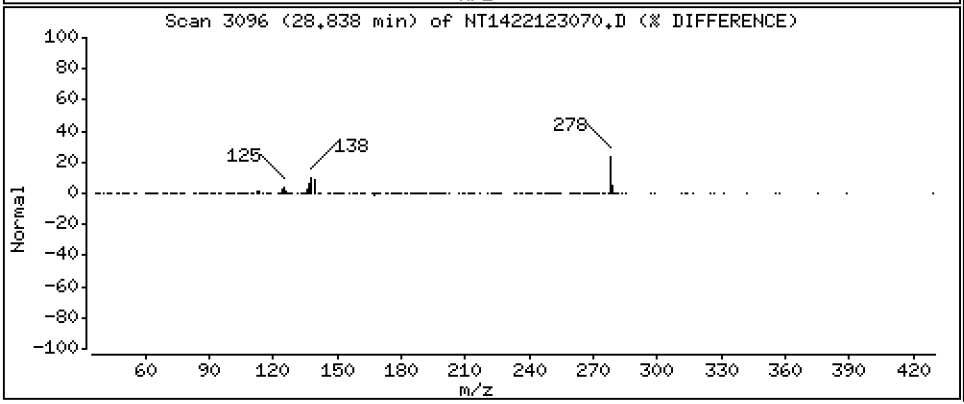
78 Indeno(1,2,3-cd)pyrene

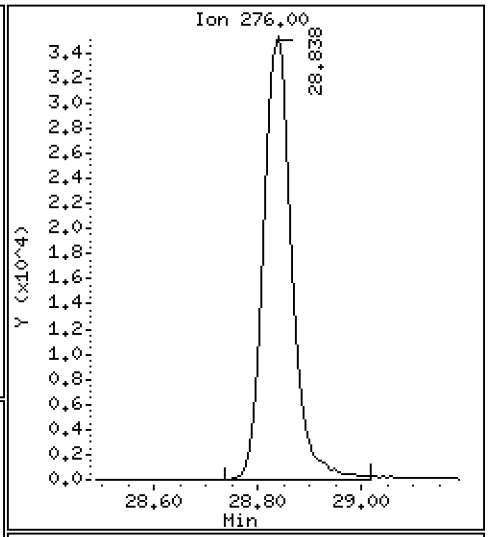
Concentration: 2.438 ug/mL

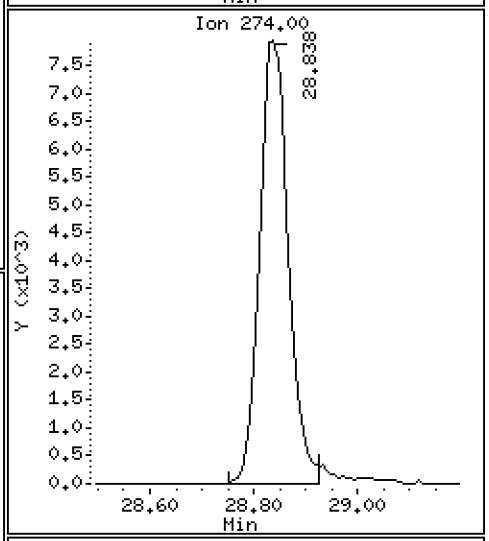


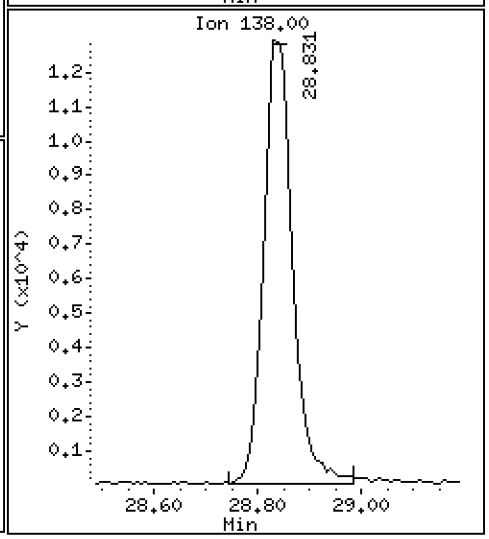












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

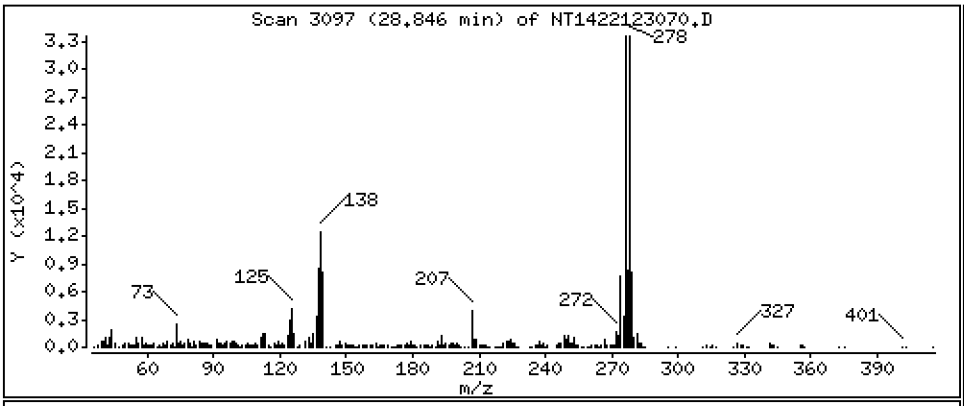
Operator: VTS

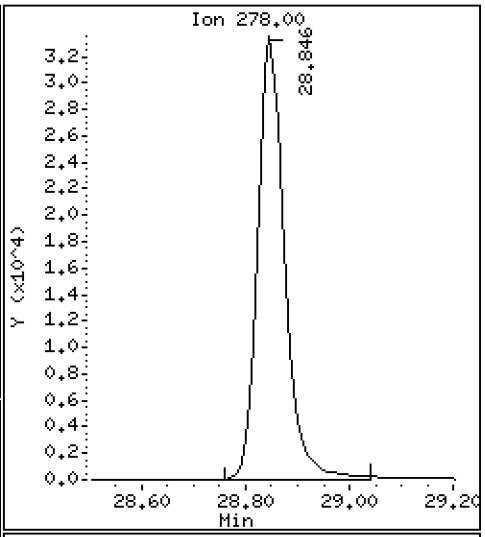
Column phase: ZB-5msi

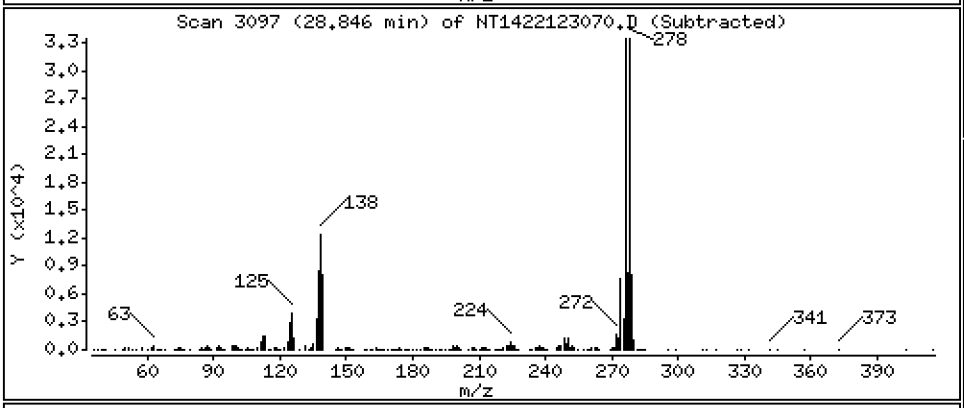
Column diameter: 0.25

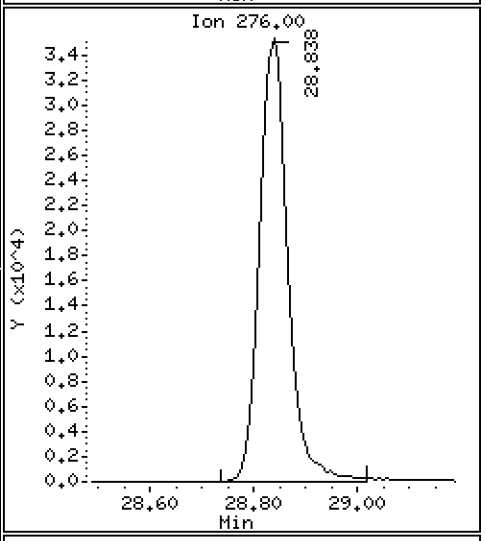
79 Dibenzo(a,h)anthracene

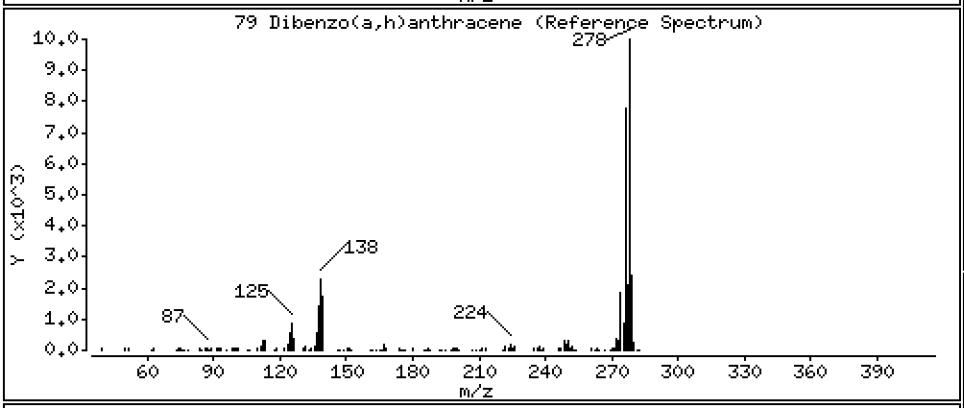
Concentration: 2.594 ug/mL

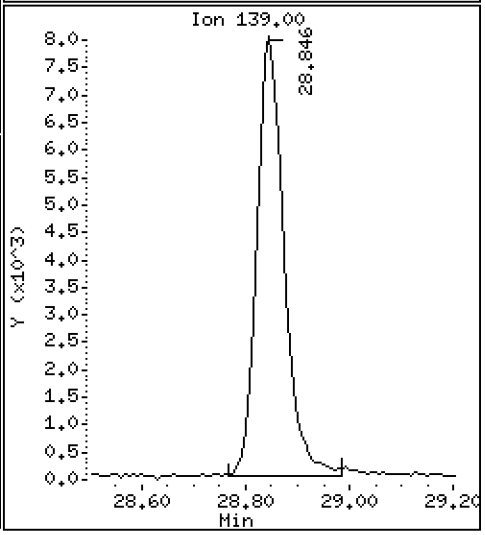


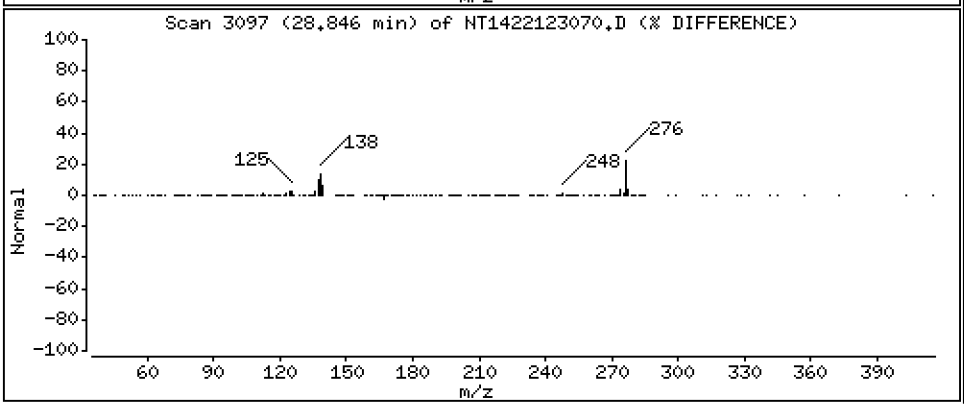












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

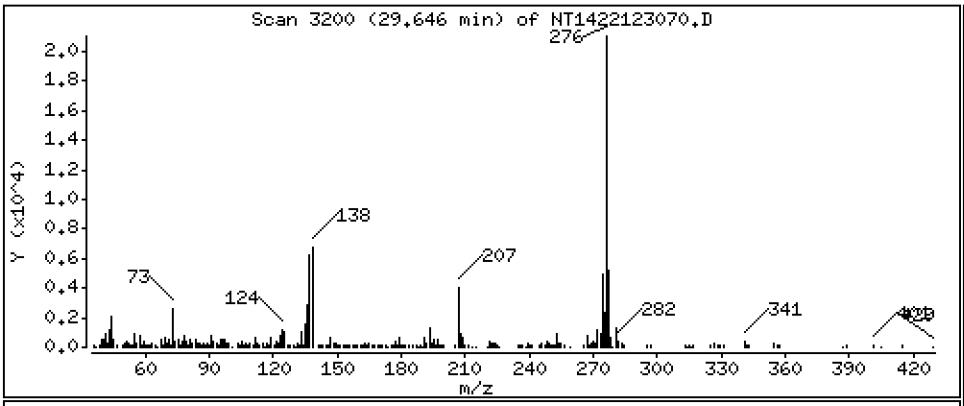
Operator: VTS

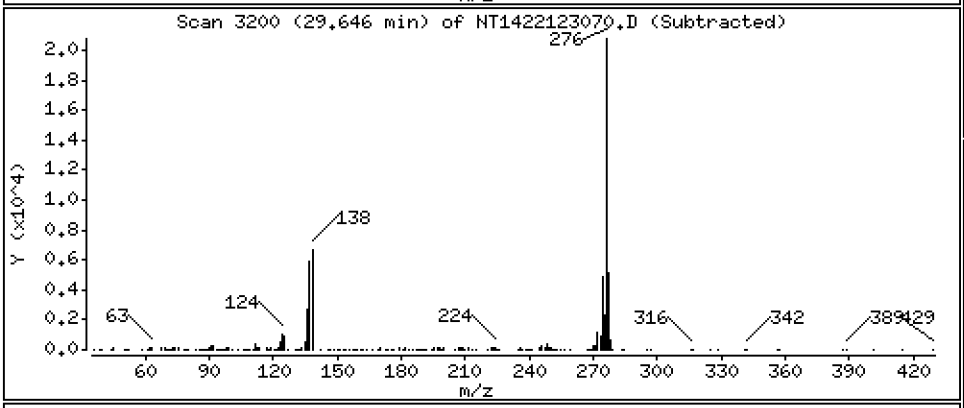
Column phase: ZB-5msi

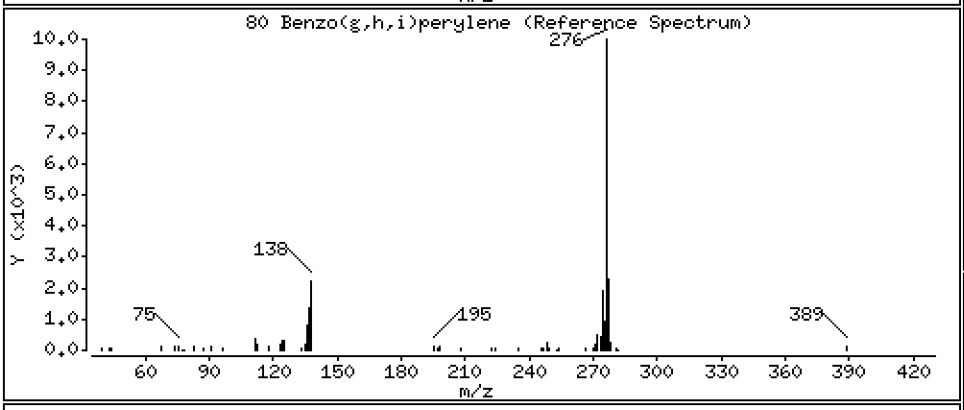
Column diameter: 0.25

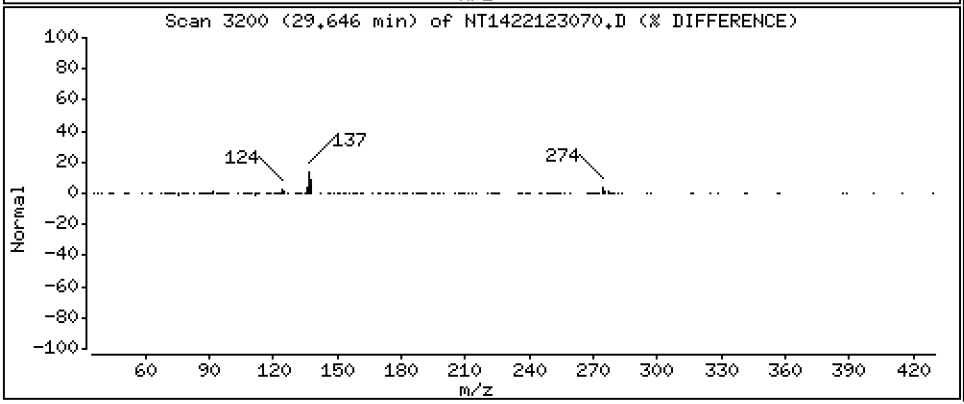
80 Benzo(g,h,i)perylene

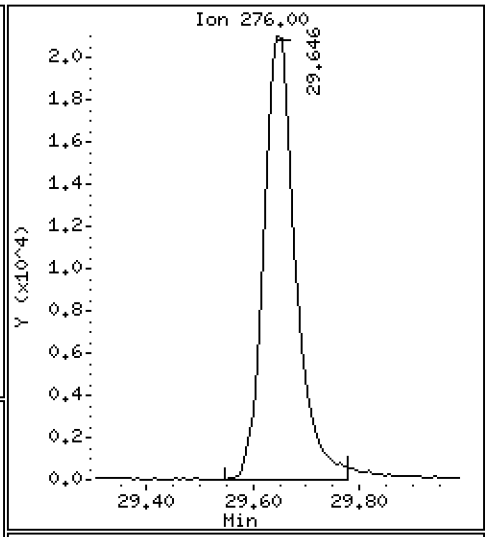
Concentration: 1.931 ug/mL

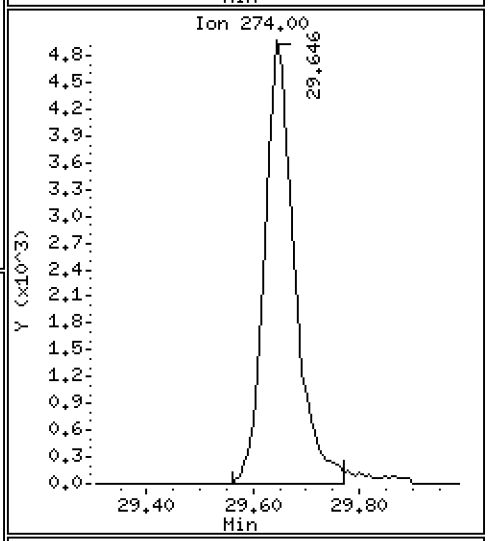


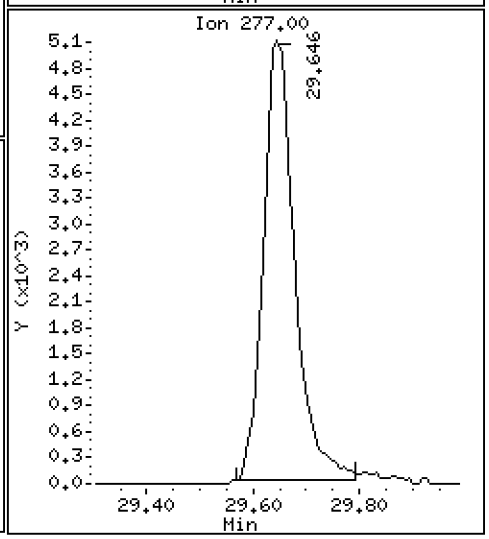












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123070.D

Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

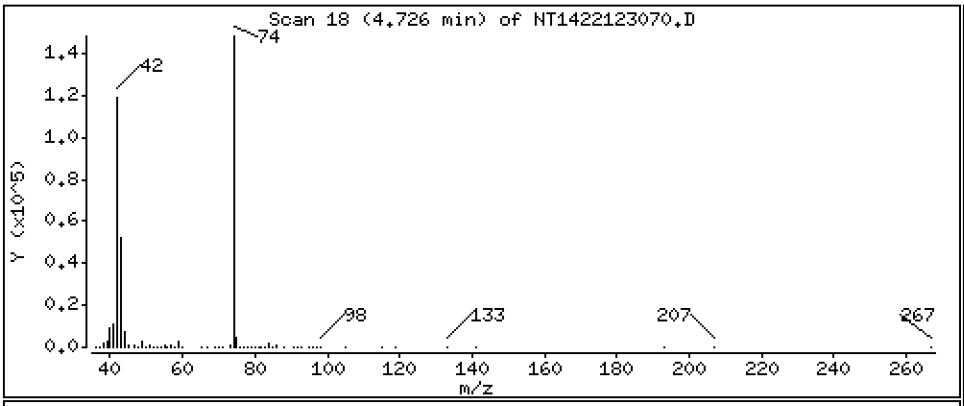
Operator: VTS

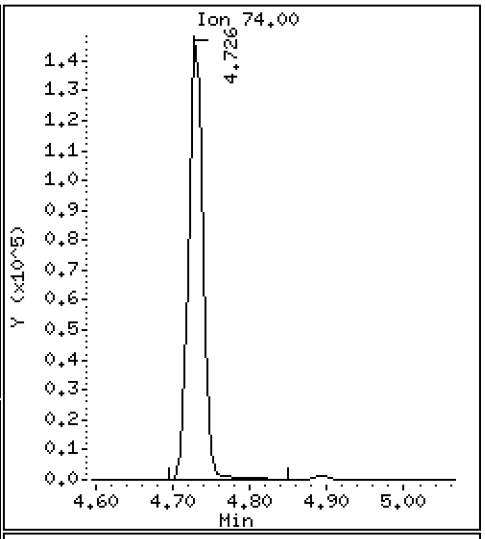
Column phase: ZB-5msi

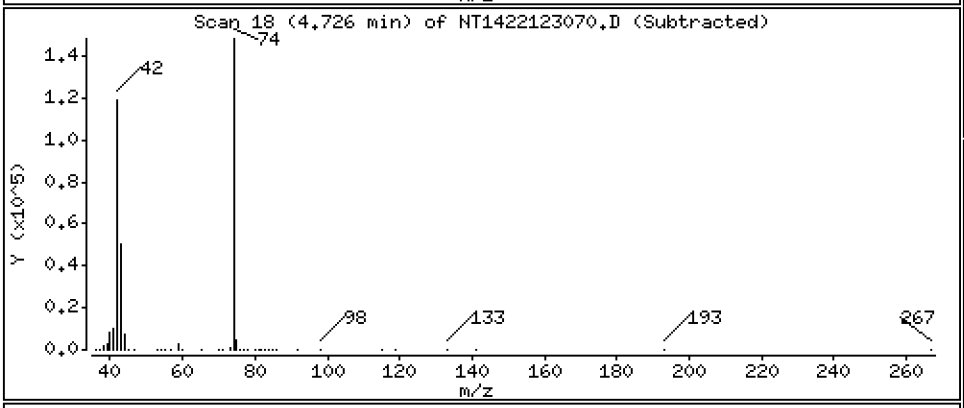
Column diameter: 0.25

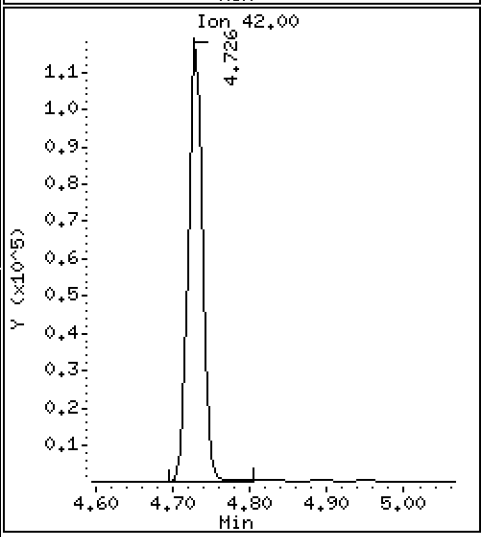
90 N-Nitrosodimethylamine

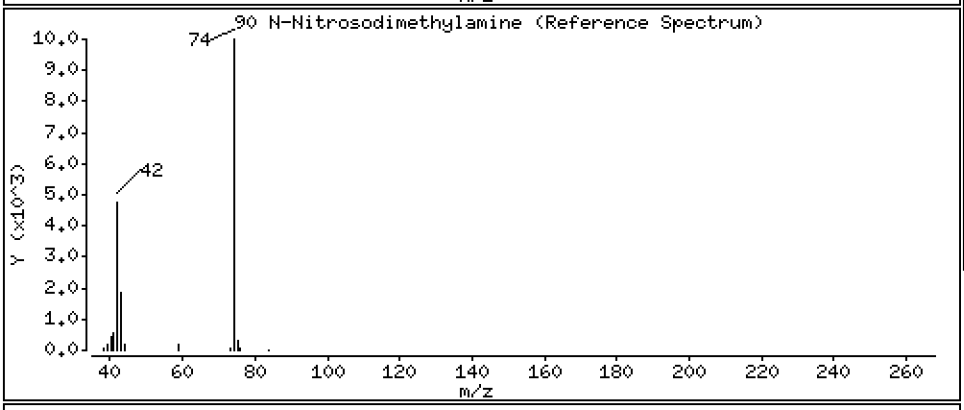
Concentration: 10.45 ug/mL

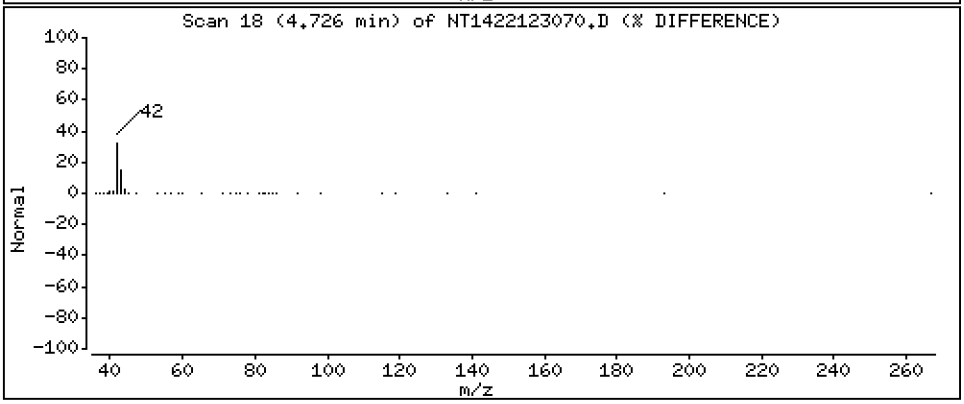












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123070.D

Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

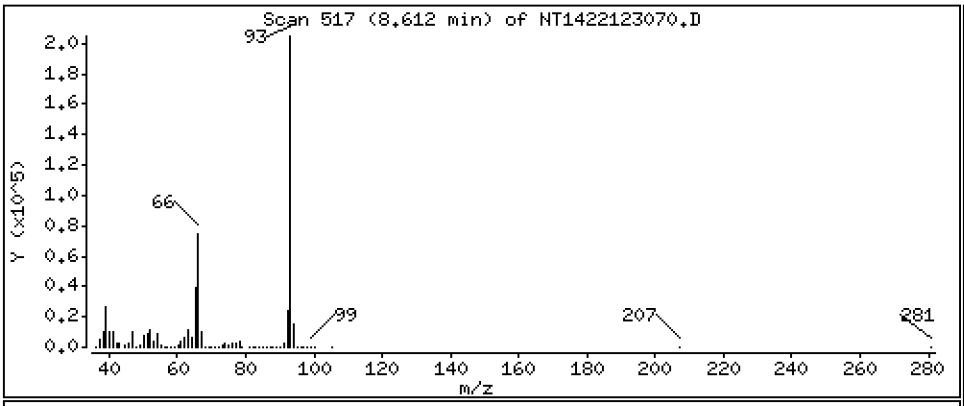
Operator: VTS

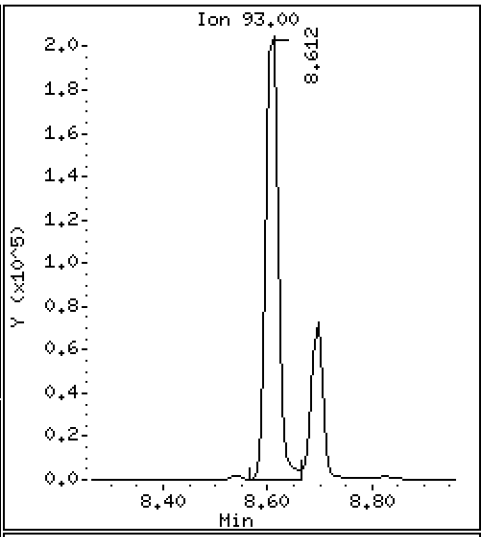
Column phase: ZB-5msi

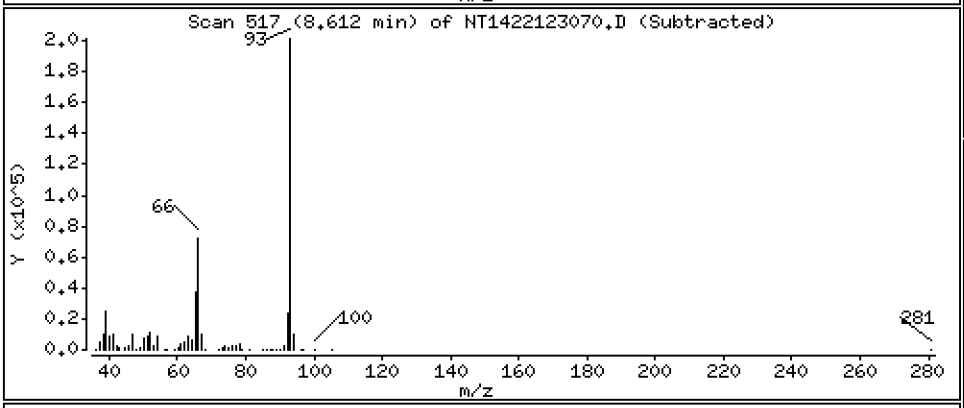
Column diameter: 0.25

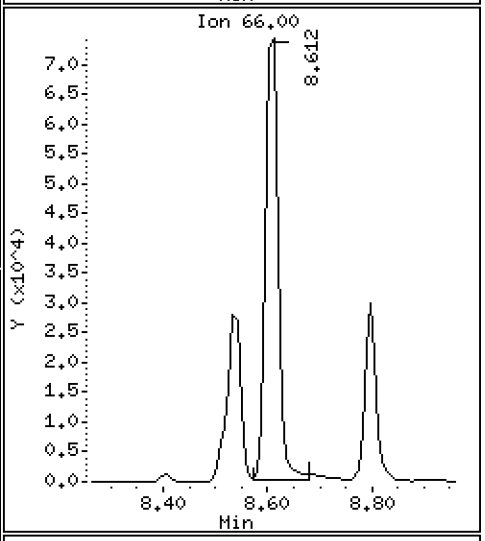
91 Aniline

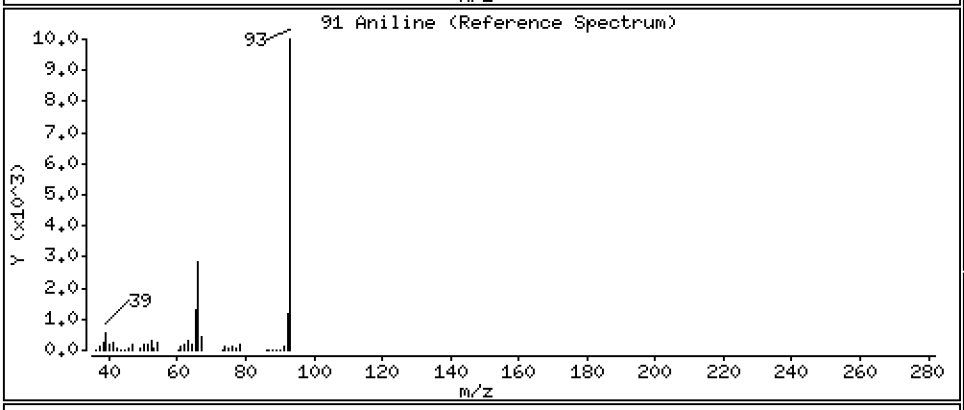
Concentration: 8.775 ug/mL

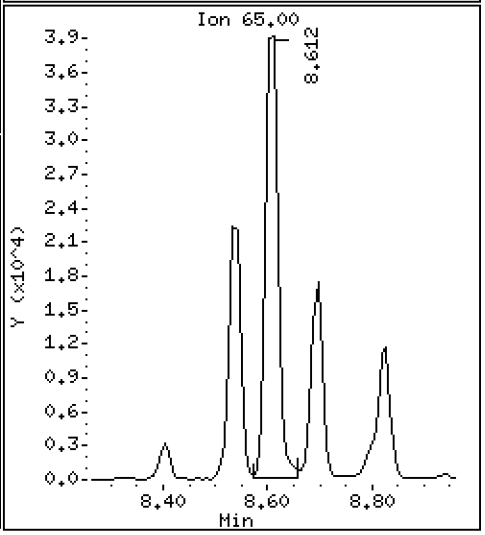


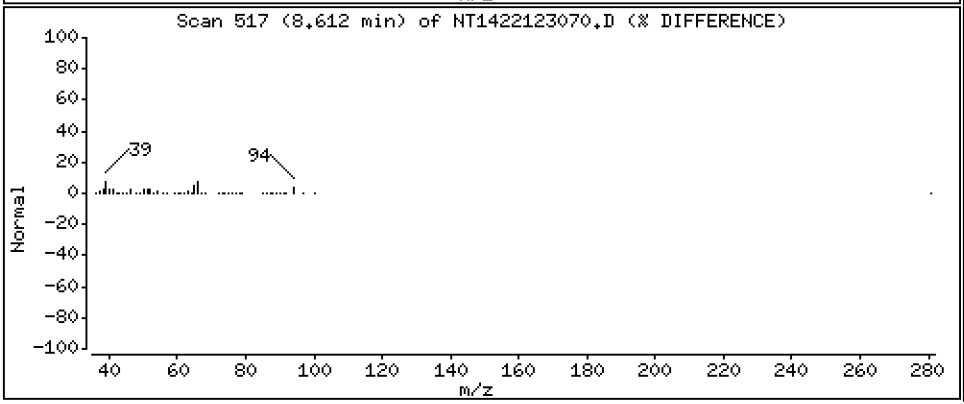












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123070.D

Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

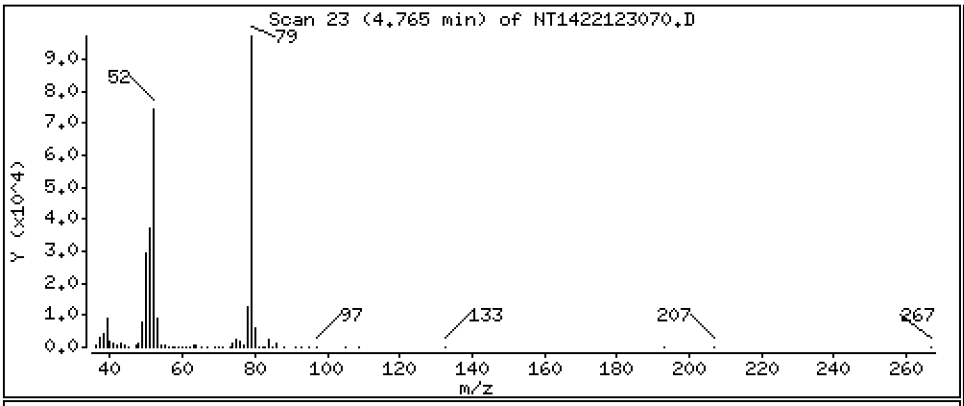
Operator: VTS

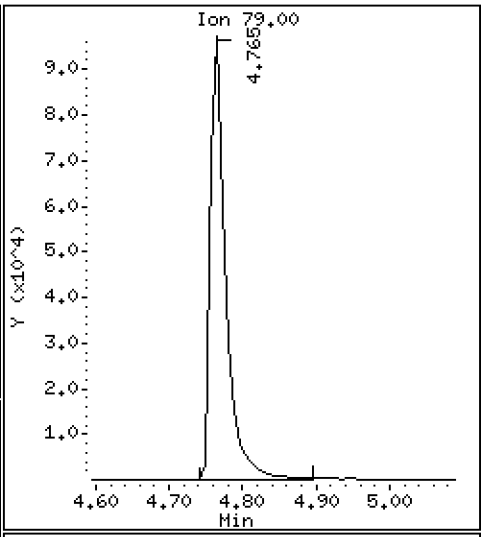
Column phase: ZB-5msi

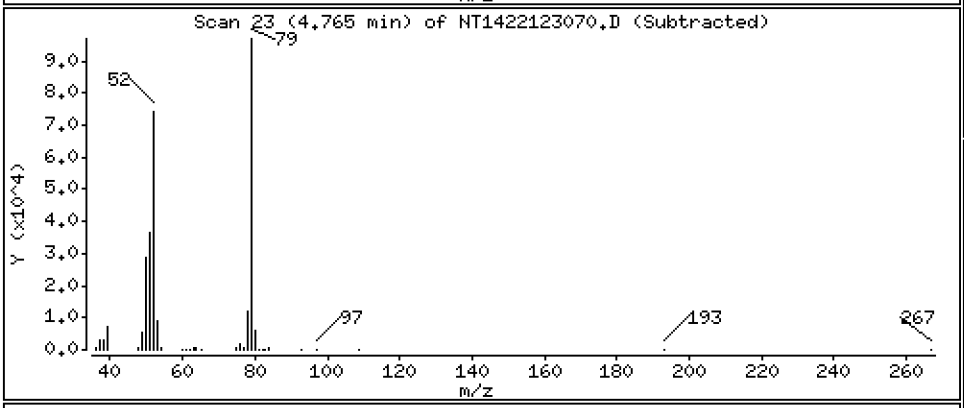
Column diameter: 0.25

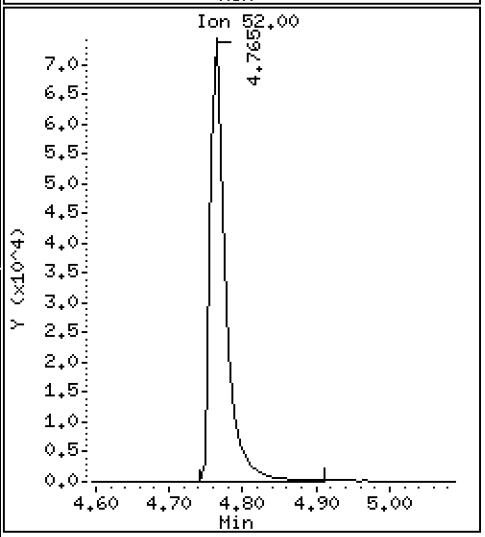
103 Pyridine

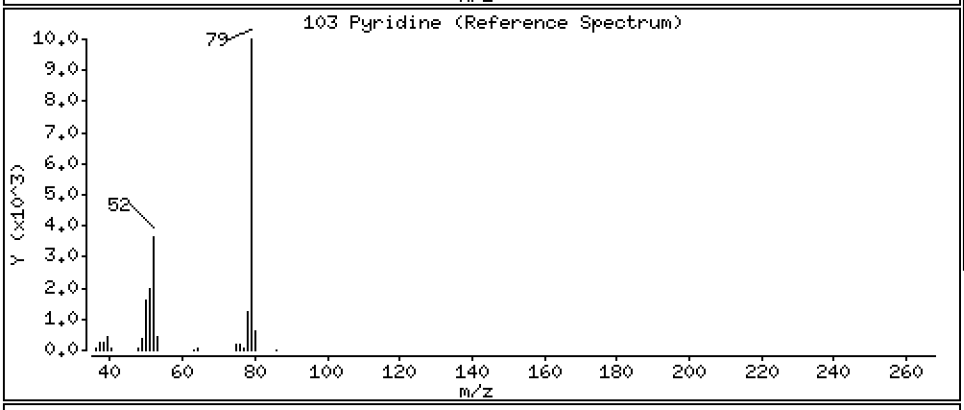
Concentration: 2.352 ug/mL

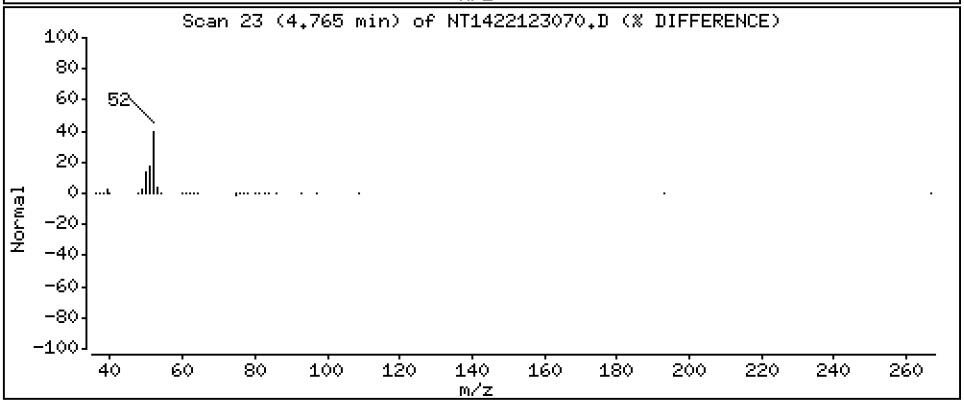












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123070.D

Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

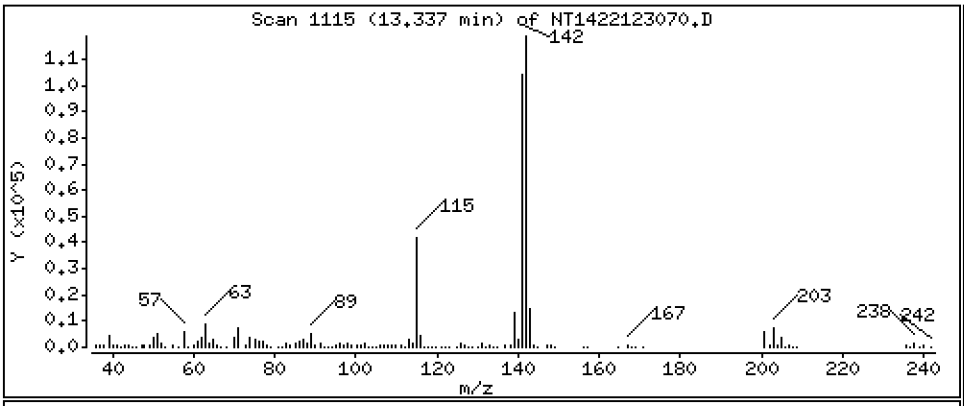
Operator: VTS

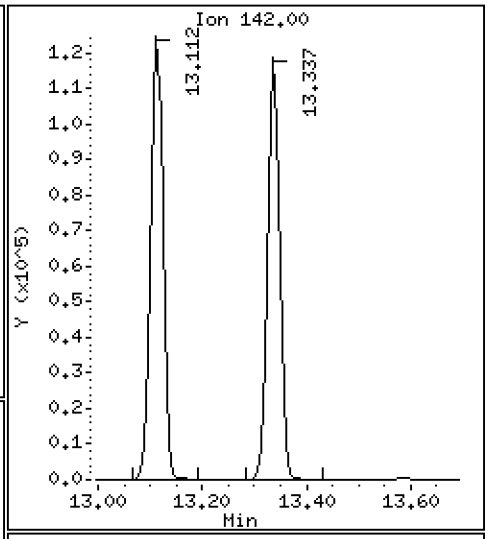
Column phase: ZB-5msi

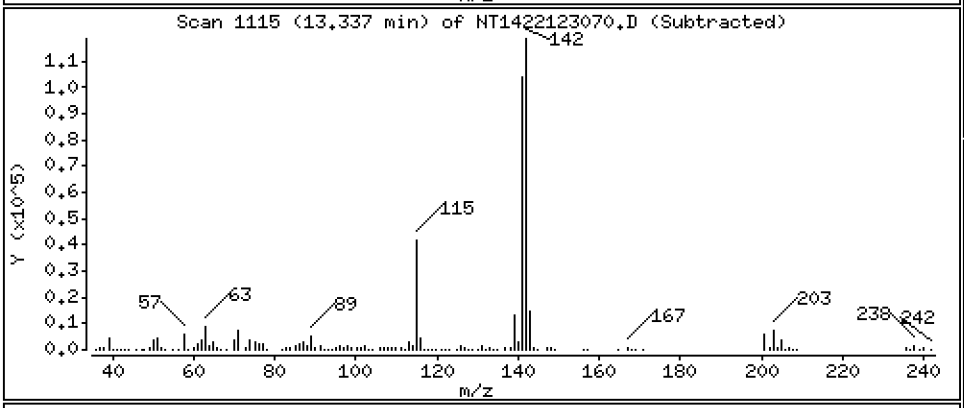
Column diameter: 0.25

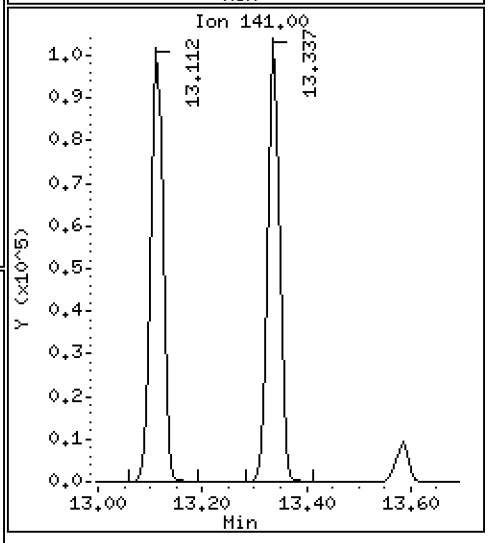
105 1-methylnaphthalene

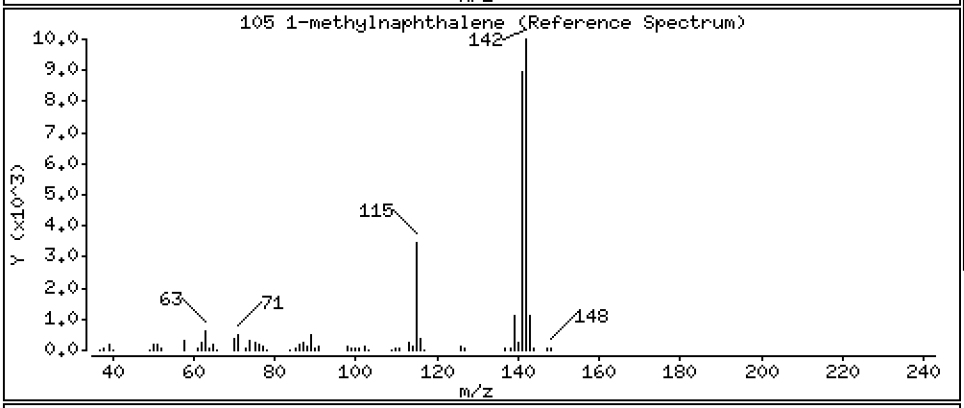
Concentration: 3.450 ug/mL

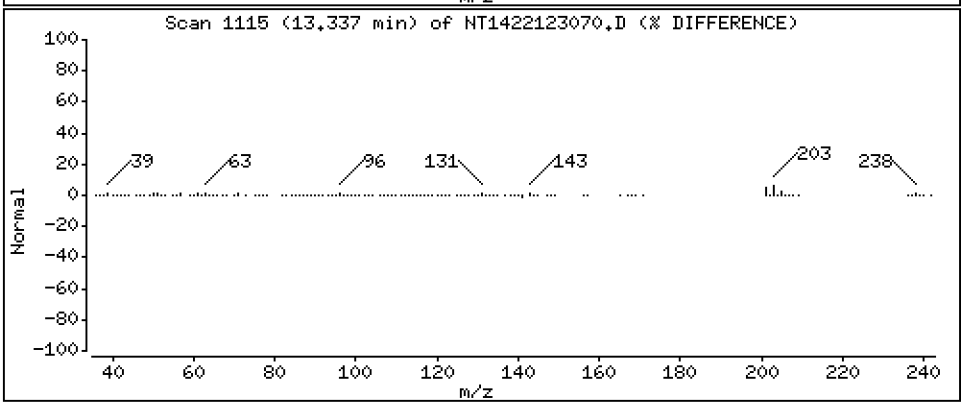












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123070.D

Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

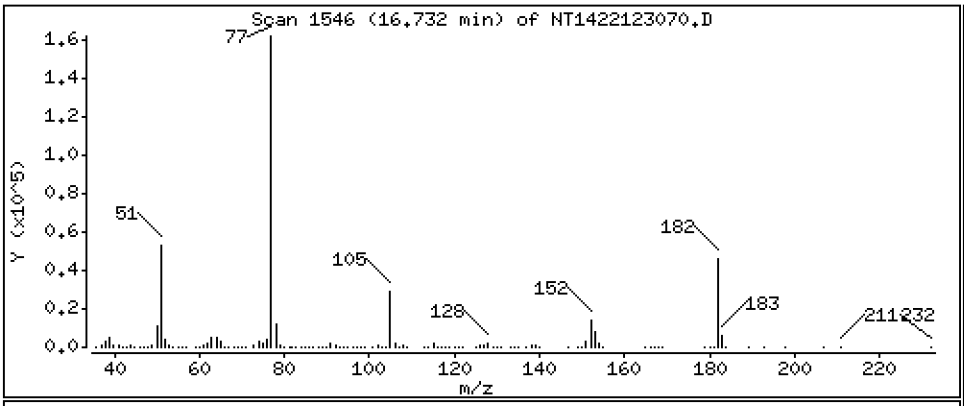
Operator: VTS

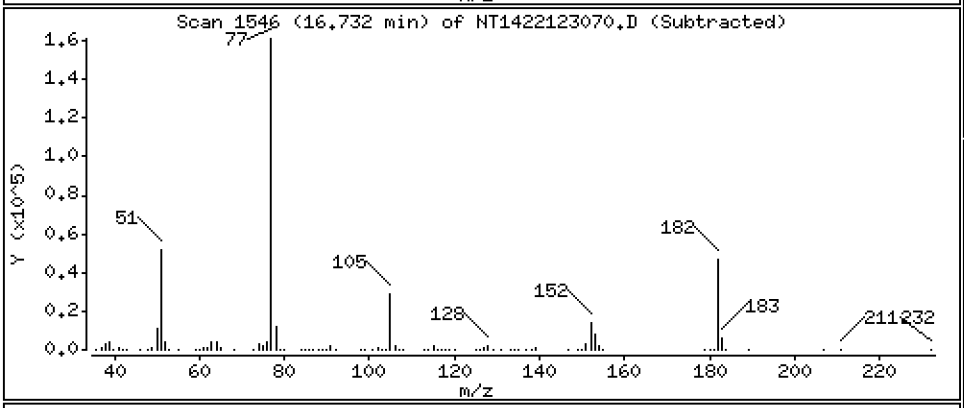
Column phase: ZB-5msi

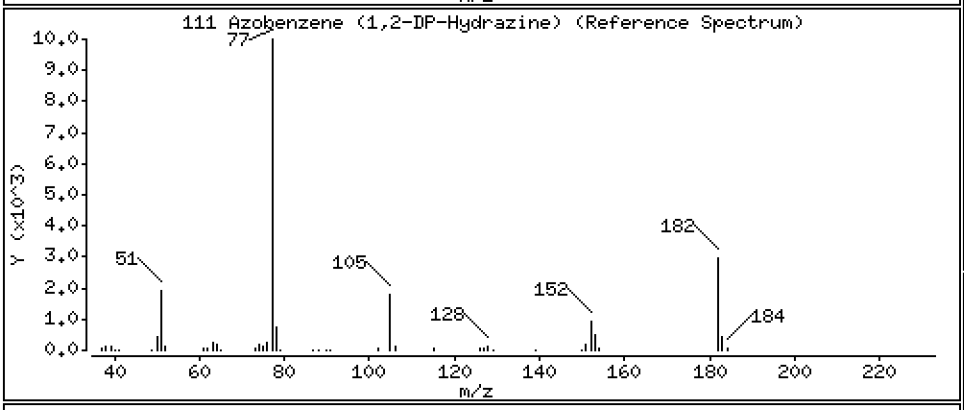
Column diameter: 0.25

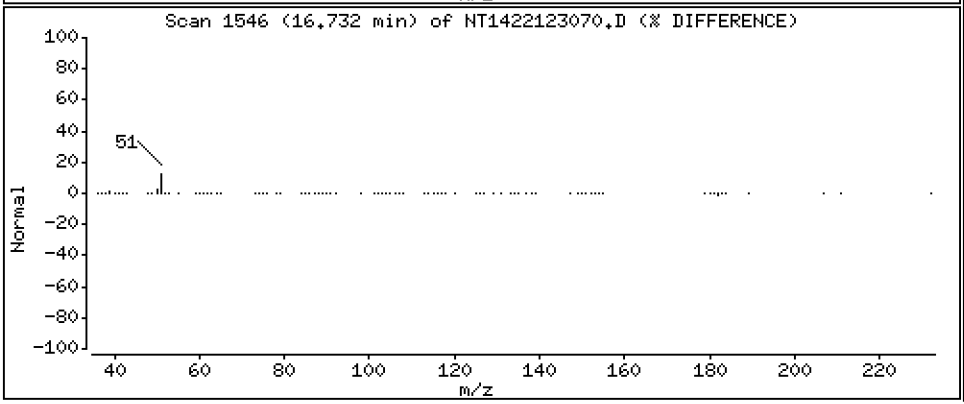
111 Azobenzene (1,2-DP-Hydrazine)

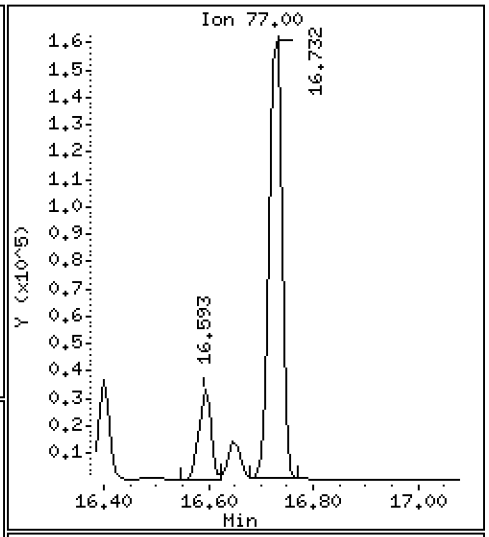
Concentration: 4.356 ug/mL

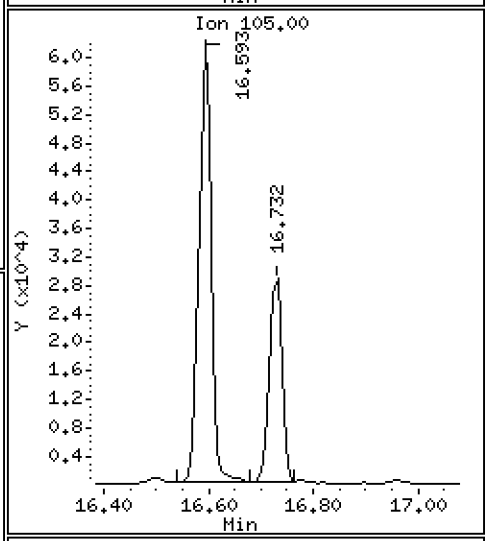


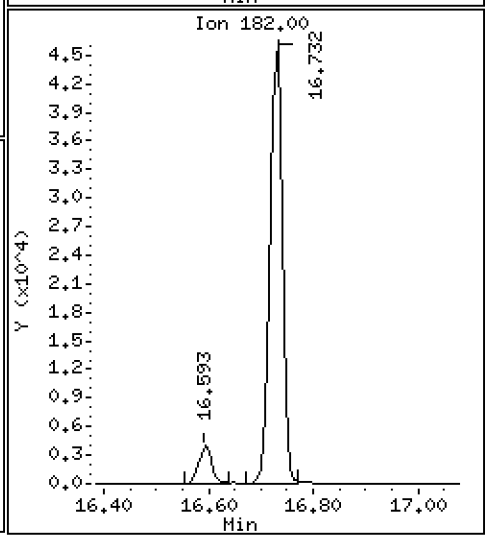












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Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

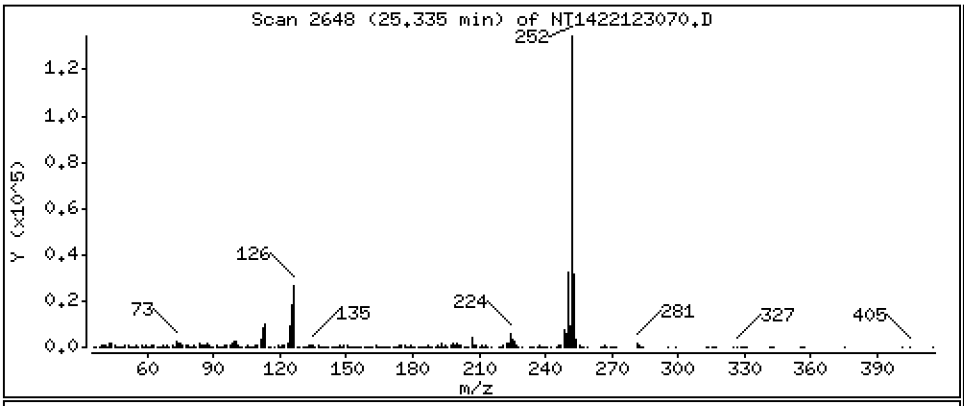
Operator: VTS

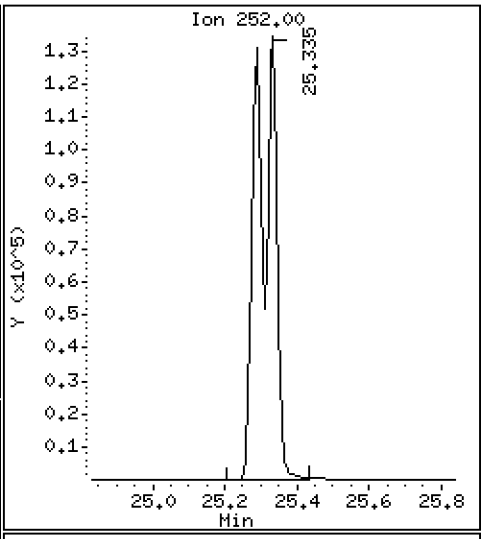
Column phase: ZB-5msi

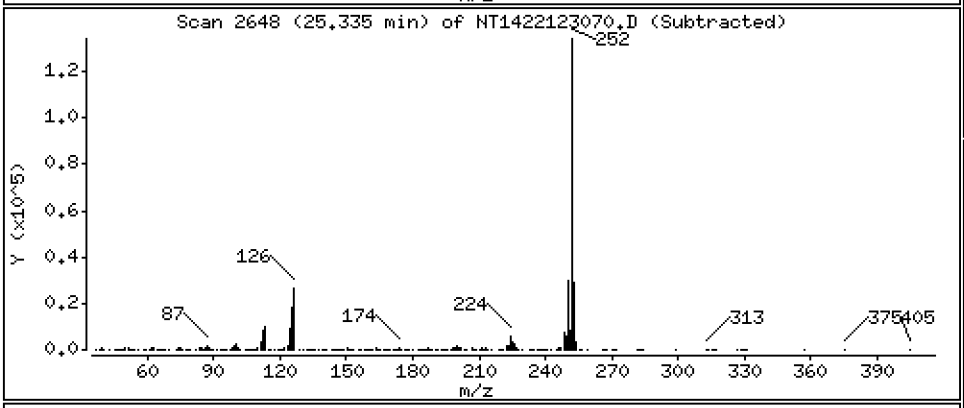
Column diameter: 0.25

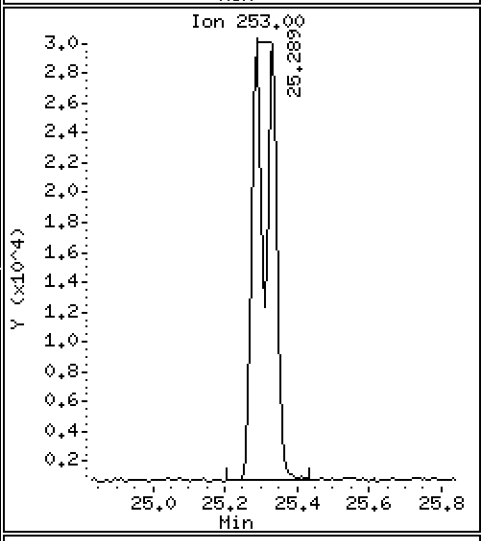
187 Total Benzofluoranthenes

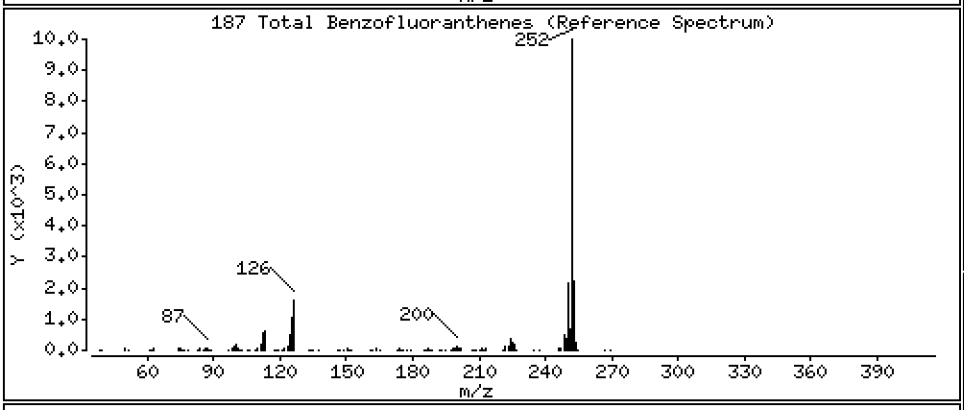
Concentration: 8.994 ug/mL

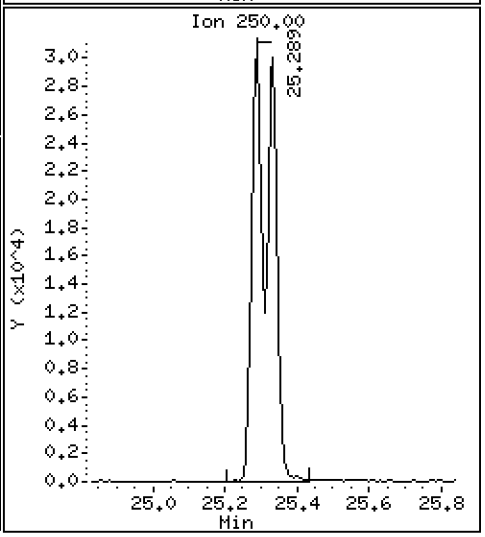


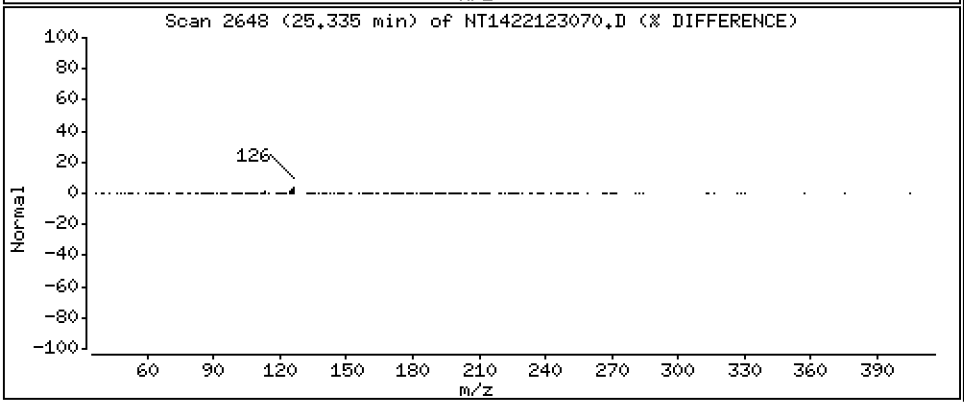












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123070.D

Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

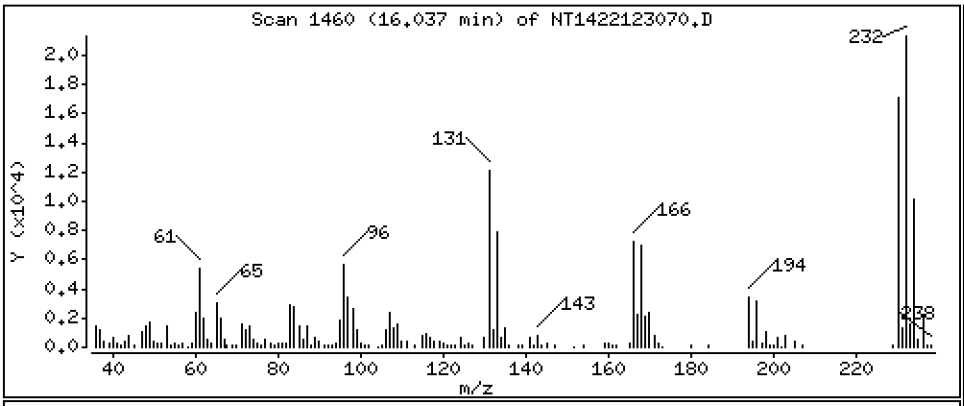
Operator: VTS

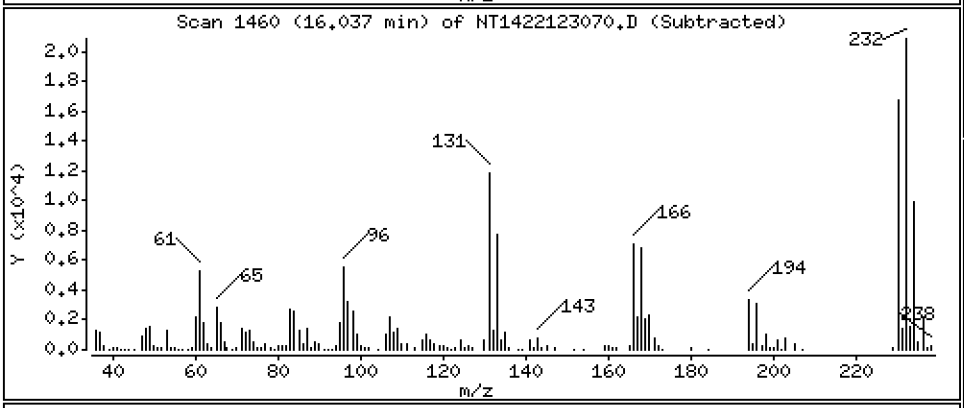
Column phase: ZB-5msi

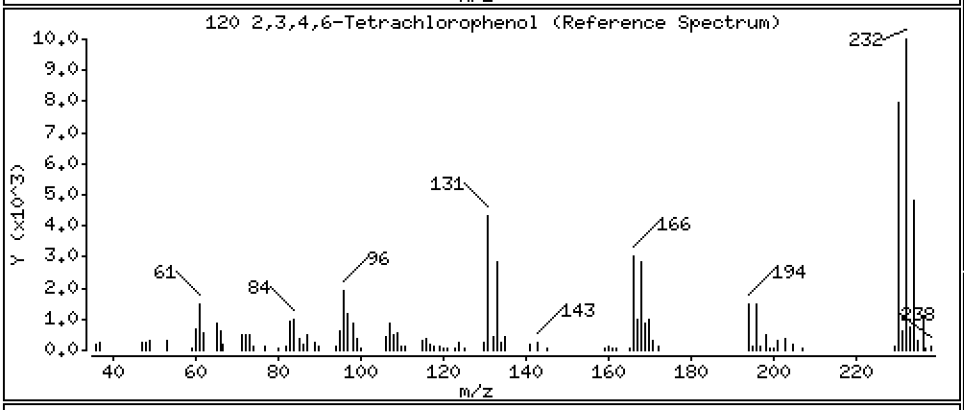
Column diameter: 0.25

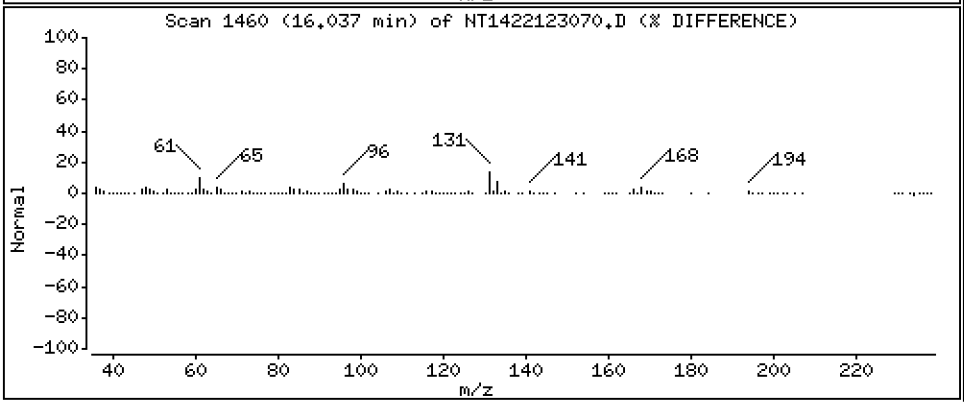
120 2,3,4,6-Tetrachlorophenol

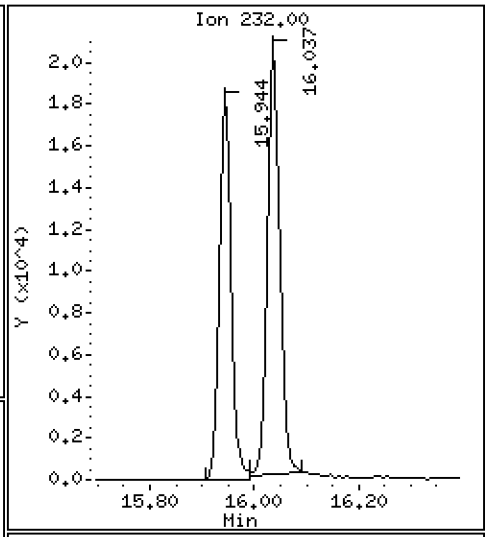
Concentration: 2.855 ug/mL

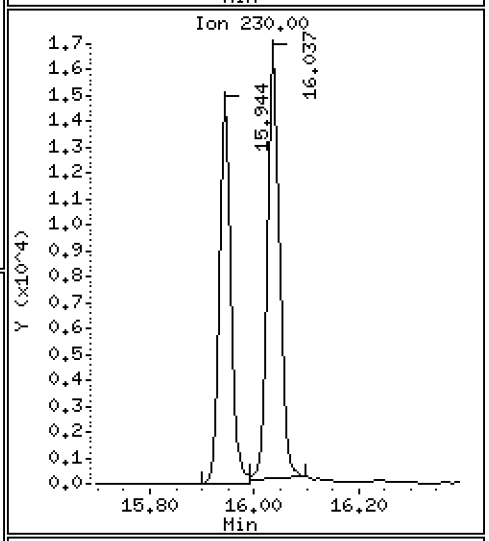


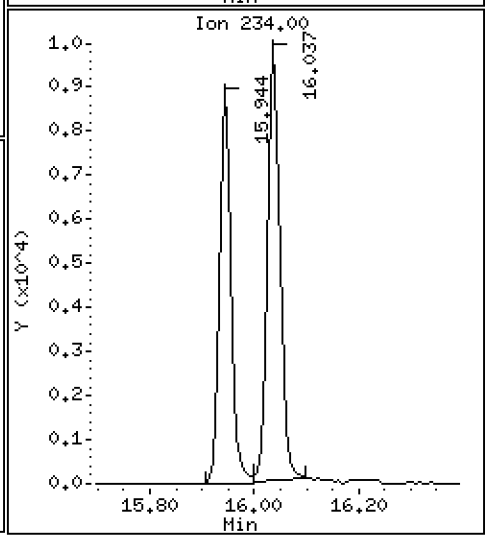












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230C.b\NT1422123070.D
Lab Smp Id: BKL0193-BS1
Inj Date : 01-JAN-2023 01:53 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : BKL0193-BS1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 41
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.927	6.919	(0.756)	154586	5.70273	5.703
$	2 Phenol-d5	99	8.519	8.519	(0.930)	204423	6.10222	6.102
	3 Phenol	94	8.542	8.542	(0.932)	120946	3.17733	3.177
$	5 2-Chlorophenol-d4	132	8.797	8.797	(0.960)	170771	6.06980	6.070
	4 Bis(2-Chloroethyl)ether	93	8.696	8.696	(0.949)	104373	3.98039	3.980
	6 2-Chlorophenol	128	8.827	8.827	(0.964)	98460	3.18655	3.187
	7 1,3-Dichlorobenzene	146	9.098	9.098	(0.993)	106042	3.23648	3.236
*	8 1,4-Dichlorobenzene-d4	152	9.160	9.160	(1.000)	84612	4.00000	
	9 1,4-Dichlorobenzene	146	9.191	9.191	(1.003)	103372	3.33028	3.330
$	10 1,2-Dichlorobenzene-d4	152	9.525	9.525	(1.040)	71102	3.69758	3.698
	12 1,2-Dichlorobenzene	146	9.548	9.556	(1.042)	102023	3.35145	3.351
	11 Benzyl alcohol	108	9.432	9.440	(1.030)	55033	3.24758	3.248
	14 2,2'-oxybis(1-Chloropropane)	121	9.735	9.735	(1.063)	33348	3.77850	3.779
	13 2-Methylphenol	108	9.657	9.665	(1.054)	78439	2.83583	2.836
	17 Hexachloroethane	117	10.154	10.154	(1.108)	37931	3.32256	3.323
	16 N-Nitroso-di-n-propylamine	70	9.991	9.998	(1.091)	64327	3.81771	3.818
	15 4-Methylphenol	108	9.936	9.936	(1.085)	90871	3.11427	3.114
$	18 Nitrobenzene-d5	82	10.255	10.262	(0.879)	114552	4.39664	4.397
	19 Nitrobenzene	77	10.293	10.301	(0.882)	99595	3.84899	3.849
	20 Isophorone	82	10.743	10.751	(0.921)	189122	5.73469	5.735
	21 2-Nitrophenol	139	10.930	10.937	(0.937)	55214	3.39520	3.395
	22 2,4-Dimethylphenol	107	10.984	10.992	(0.942)	221253	8.19272	8.193
	23 Bis(2-Chloroethoxy)methane	93	11.178	11.186	(0.958)	109983	4.28698	4.287
	24 Benzoic acid	105	11.178	11.209	(0.958)	290426	16.9974	17.00
	25 2,4-Dichlorophenol	162	11.395	11.395	(0.977)	316601	13.9077	13.91
	26 1,2,4-Trichlorobenzene	180	11.581	11.581	(0.993)	79118	3.21428	3.214
*	27 Naphthalene-d8	136	11.666	11.673	(1.000)	308541	4.00000	
	28 Naphthalene	128	11.704	11.712	(1.003)	273785	3.60572	3.606
	29 4-Chloroaniline	127	11.835	11.835	(1.015)	297089	9.48755	9.488
	30 Hexachlorobutadiene	225	12.075	12.075	(1.035)	42287	3.46254	3.463
	31 4-Chloro-3-methylphenol	107	12.802	12.810	(1.097)	311928	14.5202	14.52
	32 2-Methylnaphthalene	142	13.112	13.120	(1.124)	192206	3.45090	3.451
	33 Hexachlorocyclopentadiene	237	13.584	13.584	(0.888)	95754	7.91771	7.918

		QUANT SIG					CONCENTRATIONS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.739	13.739	(0.898)	193918	14.5221	14.52
	35 2,4,5-Trichlorophenol	196	13.816	13.816	(0.903)	207411	13.4582	13.46
$	36 2-Fluorobiphenyl	172	13.893	13.901	(0.908)	227551	4.23033	4.230
	37 2-Chloronaphthalene	162	14.110	14.118	(0.922)	166698	3.64285	3.643
	38 2-Nitroaniline	65	14.366	14.373	(0.939)	206899	17.1976	17.20
	39 Dimethylphthalate	163	14.799	14.799	(0.967)	192897	4.27540	4.275
	40 Acenaphthylene	152	14.993	14.993	(0.980)	268365	3.84618	3.846
	41 2,6-Dinitrotoluene	165	14.938	14.938	(0.976)	162058	15.9159	15.92
*	42 Acenaphthene-d10	164	15.302	15.310	(1.000)	159985	4.00000	
	43 3-Nitroaniline	138	15.225	15.225	(0.995)	164249	13.2720	13.27
	44 Acenaphthene	153	15.371	15.371	(1.005)	169509	3.91688	3.917
	45 2,4-Dinitrophenol	184	15.433	15.441	(1.009)	101273	11.4120	11.41
	46 Dibenzofuran	168	15.696	15.704	(1.026)	240619	3.70767	3.708
	47 4-Nitrophenol	109	15.549	15.557	(1.016)	80653	13.2061	13.21
	48 2,4-Dinitrotoluene	165	15.750	15.750	(1.029)	212933	15.2420	15.24
	50 Diethylphthalate	149	16.260	16.268	(1.063)	318439	5.19264	5.193
	49 Fluorene	166	16.415	16.423	(1.073)	309088	4.47701	4.477
	51 4-Chlorophenyl-phenylether	204	16.400	16.407	(1.072)	144038	4.26148	4.261
	52 4-Nitroaniline	138	16.500	16.500	(1.078)	199474	12.9836	12.98
	53 4,6-Dinitro-2-methylphenol	198	16.592	16.600	(0.904)	231010	20.1759	20.18
	54 N-Nitrosodiphenylamine	169	16.646	16.654	(0.907)	176651	3.94950	3.950
$	55 2,4,6-Tribromophenol	330	16.947	16.955	(1.108)	48491	6.25815	6.258
	56 4-Bromophenyl-phenylether	248	17.410	17.410	(0.949)	68276	4.03128	4.031
	57 Hexachlorobenzene	284	17.734	17.734	(0.966)	68141	3.66625	3.666
	58 Pentachlorophenol	266	18.090	18.090	(0.986)	65138	7.78075	7.781
*	59 Phenanthrene-d10	188	18.353	18.361	(1.000)	260655	4.00000	
	60 Phenanthrene	178	18.400	18.408	(1.003)	260536	3.83364	3.834
	61 Anthracene	178	18.493	18.500	(1.008)	222353	3.42723	3.427
	62 Carbazole	167	18.825	18.825	(1.026)	230213	3.67050	3.671
	63 Di-n-butylphthalate	149	19.607	19.614	(1.068)	332282	4.52369	4.524
	64 Fluoranthene	202	20.783	20.791	(0.888)	288289	4.20434	4.204
	65 Pyrene	202	21.208	21.216	(0.906)	299385	4.15266	4.153
$	66 Terphenyl-d14	244	21.487	21.495	(0.918)	232662	4.55132	4.551
	67 Butylbenzylphthalate	149	22.400	22.408	(0.957)	135802	4.90812	4.908
	68 Benzo(a)anthracene	228	23.368	23.376	(0.999)	271163	4.20333	4.203
*	69 Chrysene-d12	240	23.399	23.399	(1.000)	212958	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.314	23.322	(0.996)	261298	13.2313	13.23
	71 Chrysene	228	23.446	23.446	(1.002)	256620	4.21127	4.211
	72 bis(2-Ethylhexyl)phthalate	149	23.430	23.430	(0.959)	193603	4.88604	4.886
*	134 Di-n-octylphthalate-d4	153	24.421	24.421	(1.000)	356784	4.00000	
	73 Di-n-octylphthalate	149	24.429	24.429	(1.000)	355767	4.15405	4.154
	74 Benzo(b)fluoranthene	252	25.288	25.296	(0.970)	261205	4.53135	4.531
	75 Benzo(k)fluoranthene	252	25.335	25.335	(0.971)	264146	4.50223	4.502
	76 Benzo(a)pyrene	252	25.962	25.970	(0.996)	199808	4.16967	4.170
*	77 Perylene-d12	264	26.078	26.086	(1.000)	183421	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	28.838	28.838	(1.106)	132823	2.43830	2.438
	79 Dibenzo(a,h)anthracene	278	28.846	28.853	(1.106)	120093	2.59434	2.594
	80 Benzo(g,h,i)perylene	276	29.646	29.653	(1.137)	88140	1.93146	1.931
	90 N-Nitrosodimethylamine	74	4.726	4.718	(0.516)	195106	10.4508	10.45
	91 Aniline	93	8.611	8.611	(0.940)	325235	8.77508	8.775
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	4.764	4.741	(0.520)	139523	2.35196	2.352
	105 1-methylnaphthalene	142	13.336	13.344	(1.143)	184644	3.45029	3.450
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.731	16.731	(1.093)	258810	4.35624	4.356

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.335	25.335	(0.971)	501210	8.99363	8.994
120 2,3,4,6-Tetrachlorophenol	232	16.036	16.044	(1.048)	32904	2.85536	2.855

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123070.D
Lab Smp Id: BKL0193-BS1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Misc Info:

Calibration Date: 31-DEC-2022
Calibration Time: 23:30
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138755	69378	277510	84612	-39.02
27 Naphthalene-d8	501723	250862	1003446	308541	-38.50
42 Acenaphthene-d10	275234	137617	550468	159985	-41.87
59 Phenanthrene-d10	440085	220043	880170	260655	-40.77
69 Chrysene-d12	384795	192398	769590	212958	-44.66
134 Di-n-octylphthala	674530	337265	1349060	356784	-47.11
77 Perylene-d12	336665	168333	673330	183421	-45.52

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	-0.07
42 Acenaphthene-d10	15.31	14.81	15.81	15.30	-0.05
59 Phenanthrene-d10	18.36	17.86	18.86	18.35	-0.04
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.42	0.00
77 Perylene-d12	26.09	25.59	26.59	26.08	-0.03

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

REVIEW SUMMARY FOR FILE - NT1422123070.D

Lab ID: BKL0193-BS1
nt14.i, 20221230C.b\ABN.m,   01-JAN-2023 01:53

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

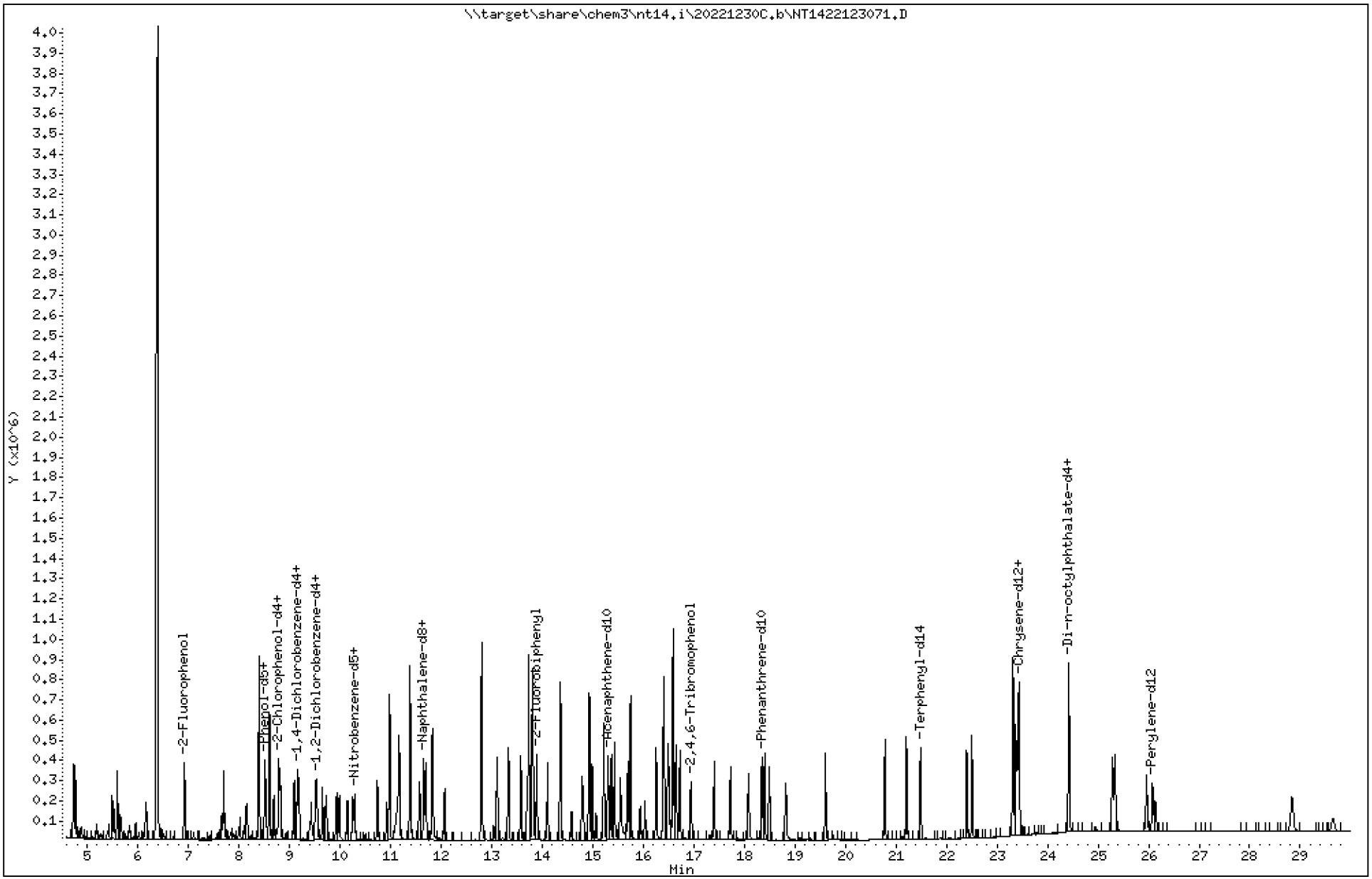
RRT check based on Ccal File: NT1422123066.D

On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

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

Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123071.D
Date : 01-JAN-2023 02:29
Client ID:
Sample Info: BKL0193-BSD1

Instrument: nt14.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

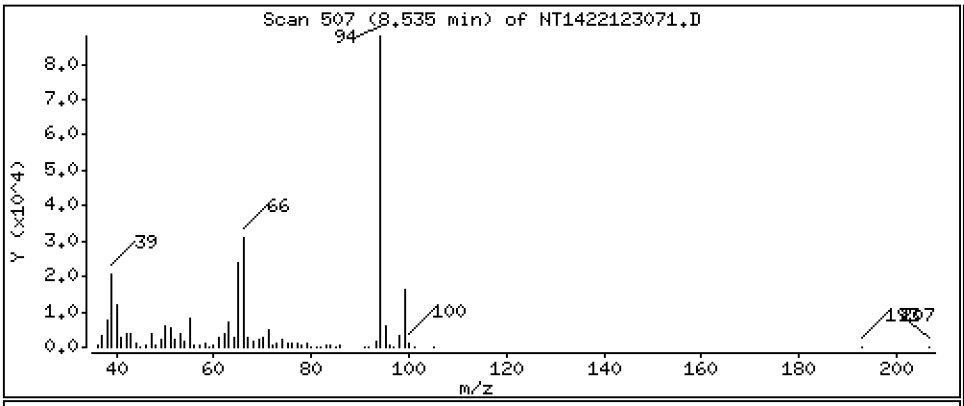
Operator: VTS

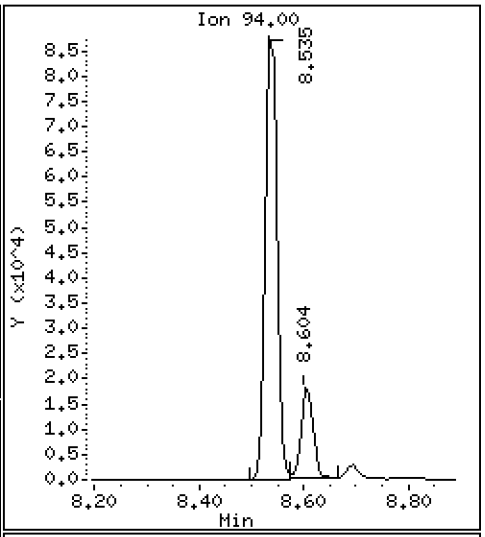
Column phase: ZB-5msi

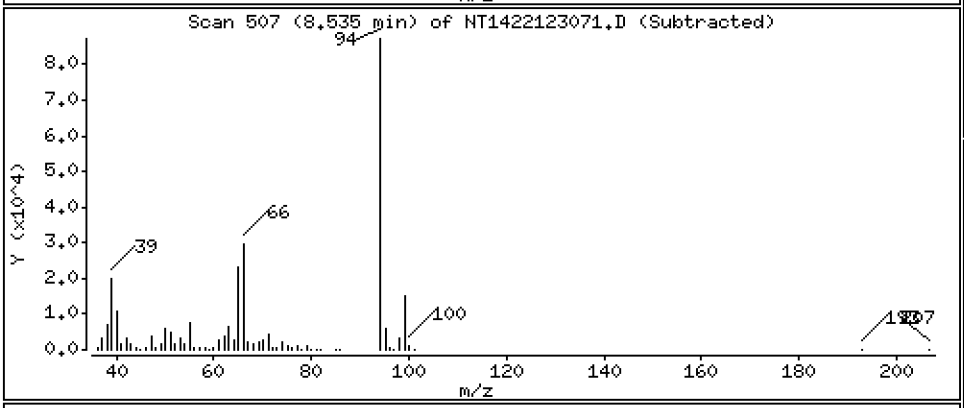
Column diameter: 0.25

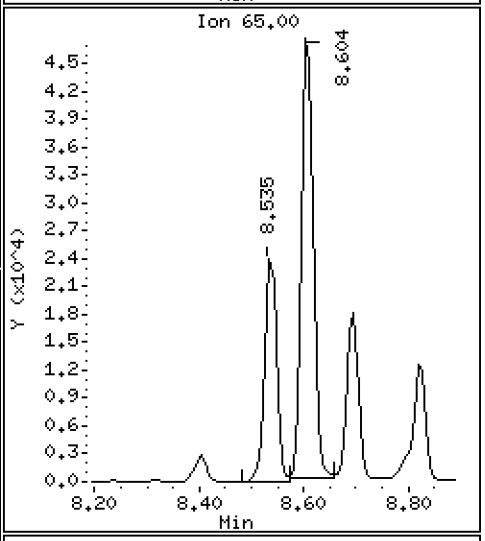
3 Phenol

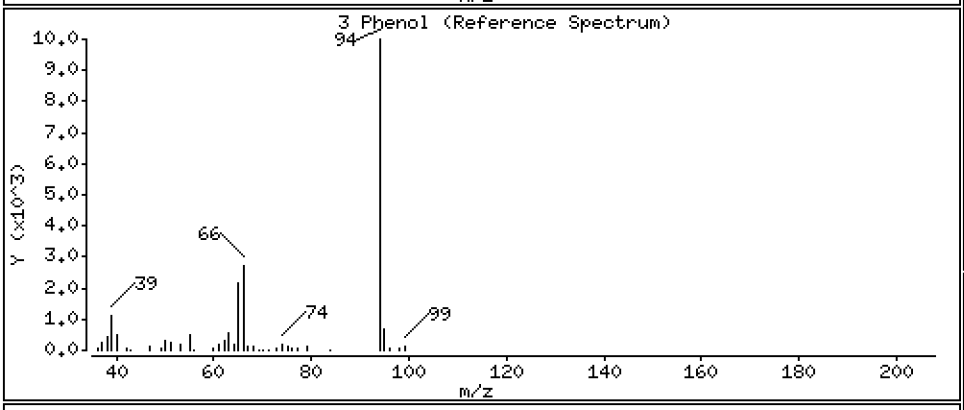
Concentration: 3.358 ug/mL

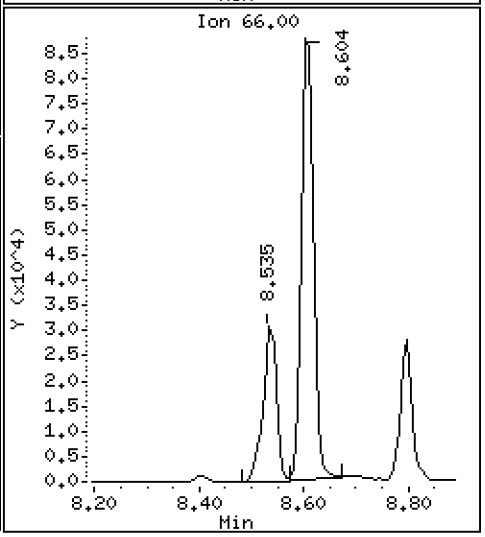


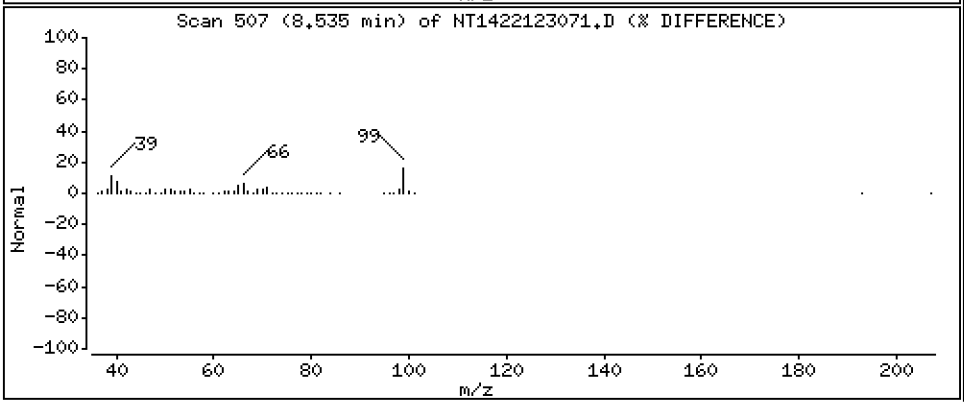












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

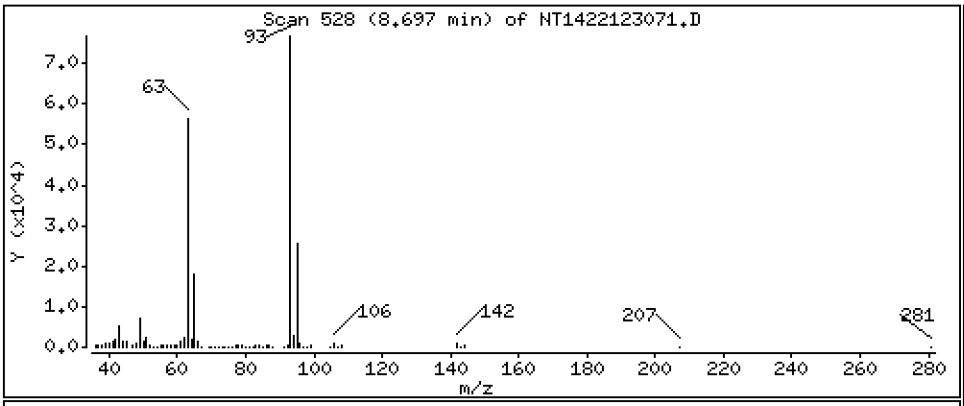
Operator: VTS

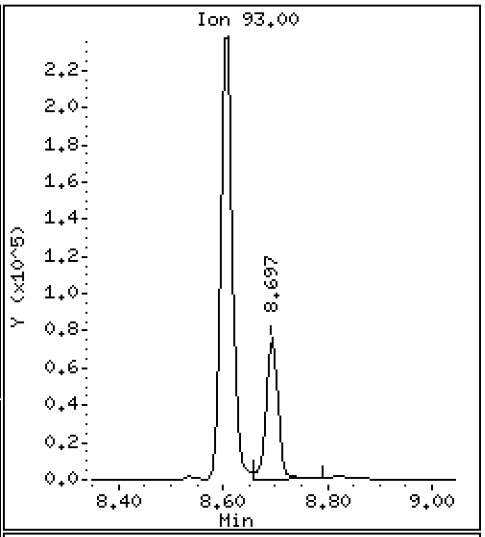
Column phase: ZB-5msi

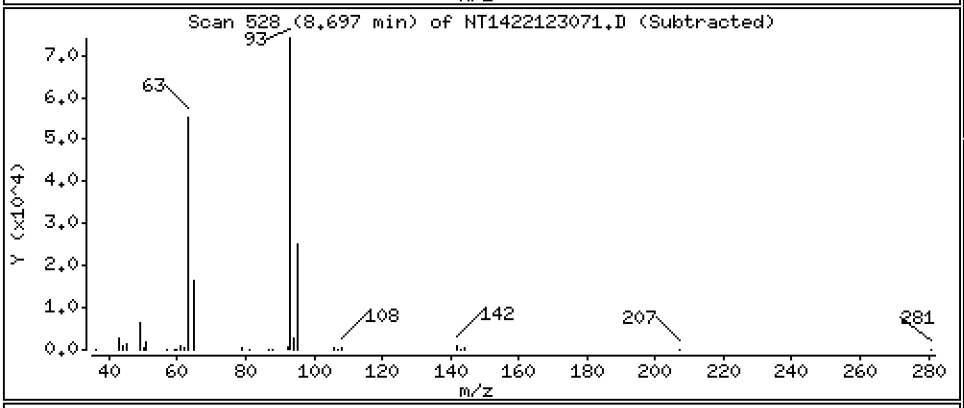
Column diameter: 0.25

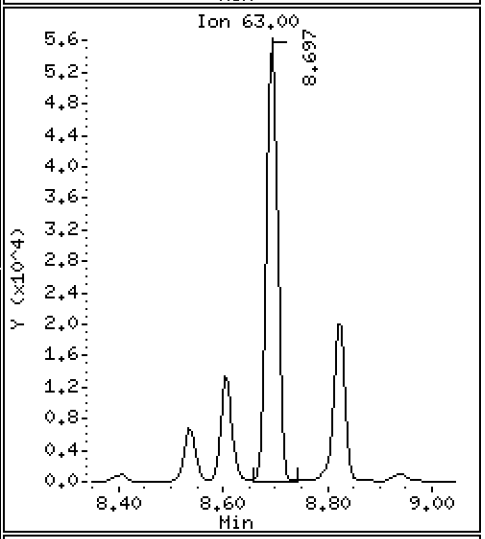
4 Bis(2-Chloroethyl)ether

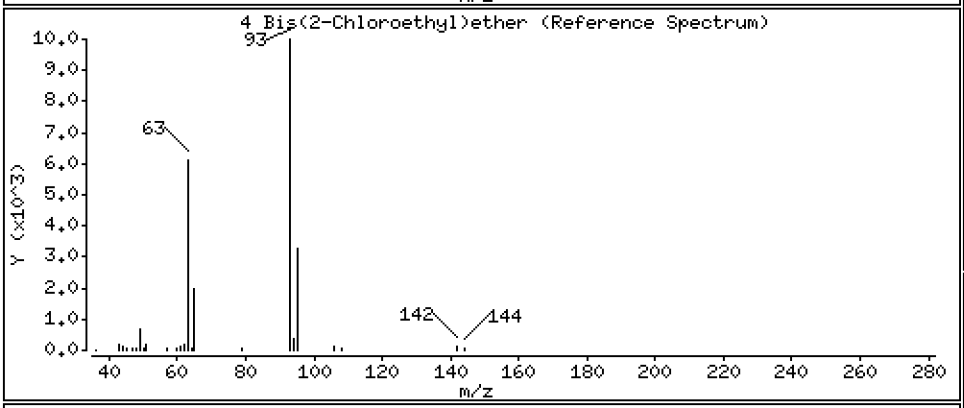
Concentration: 4.273 ug/mL

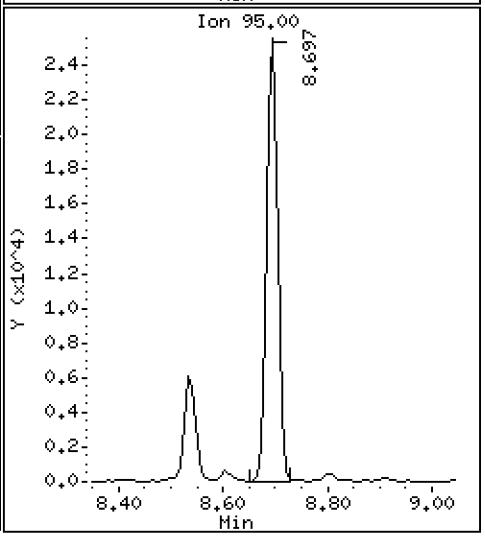


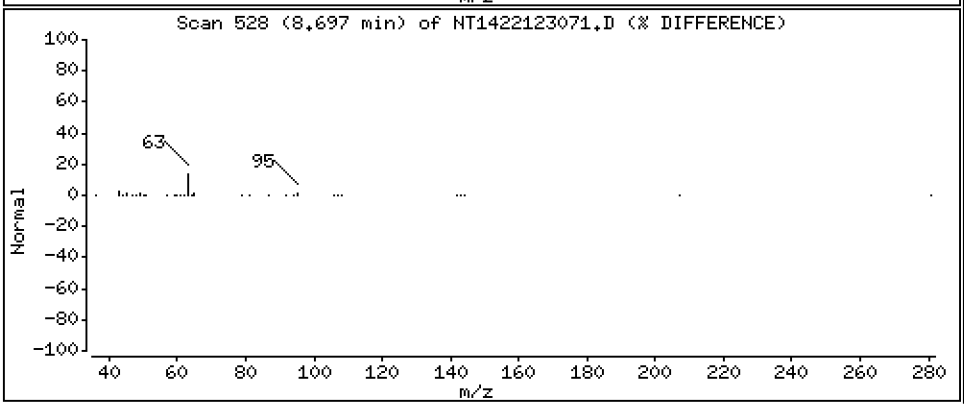












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

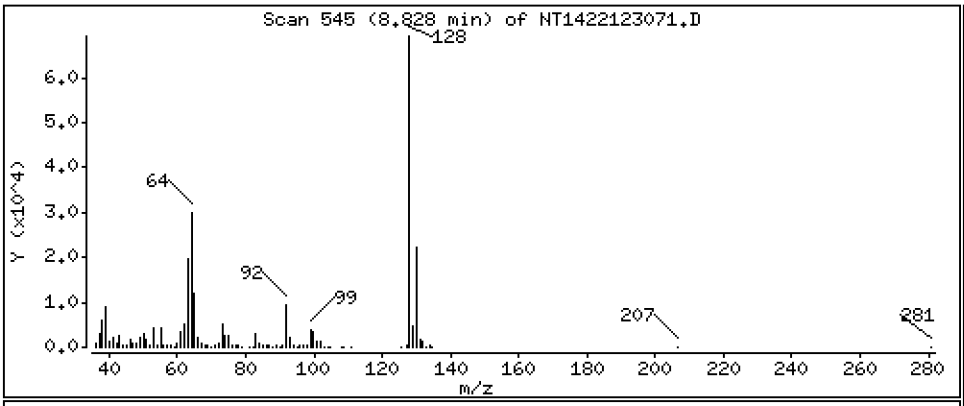
Operator: VTS

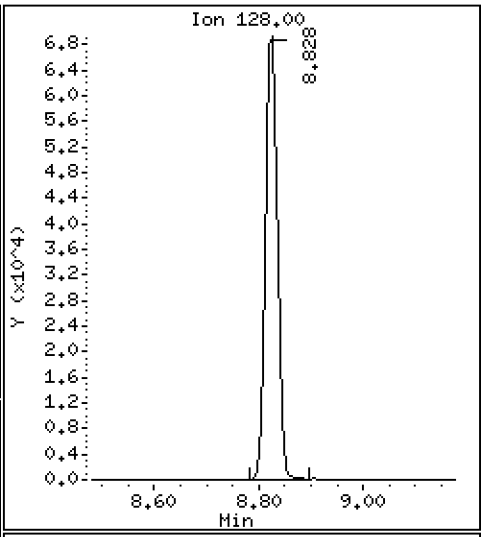
Column phase: ZB-5msi

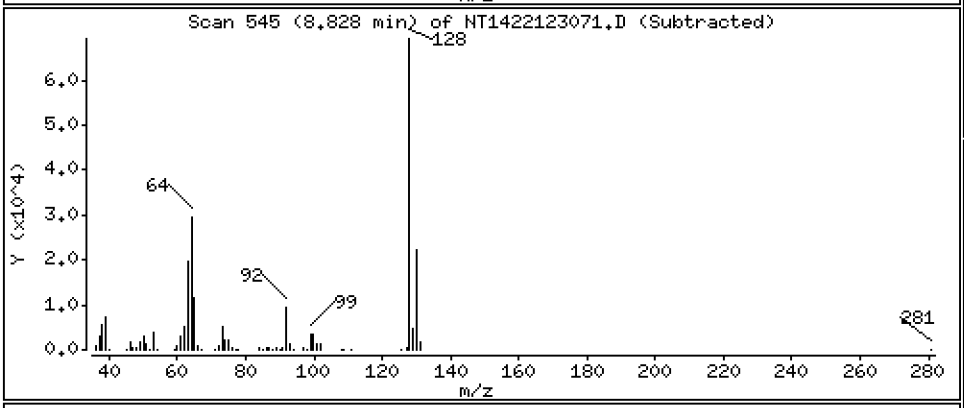
Column diameter: 0.25

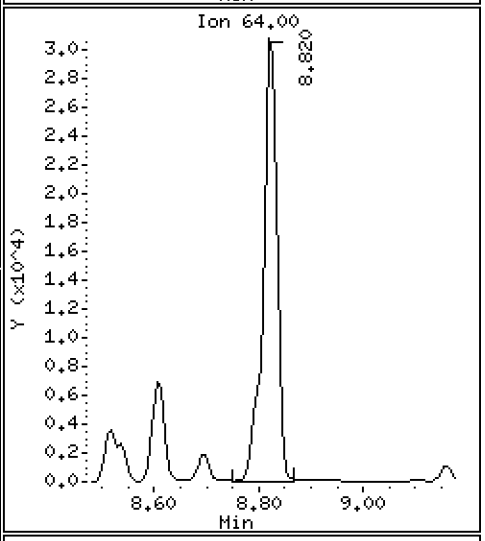
6 2-Chlorophenol

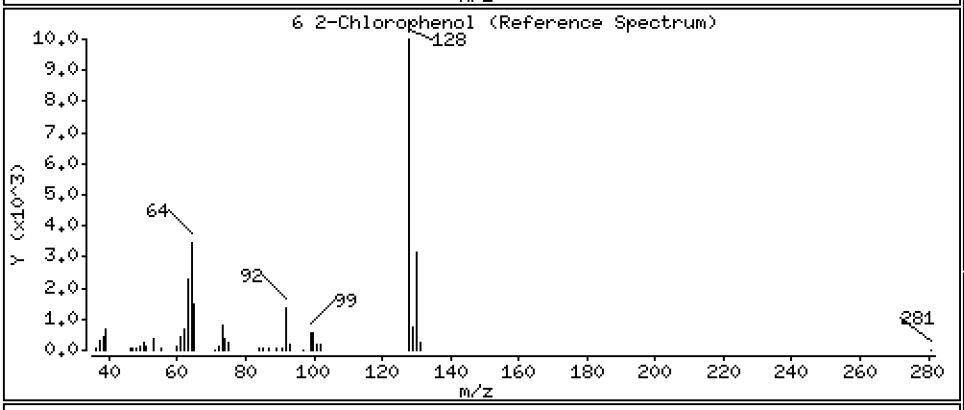
Concentration: 3.401 ug/mL

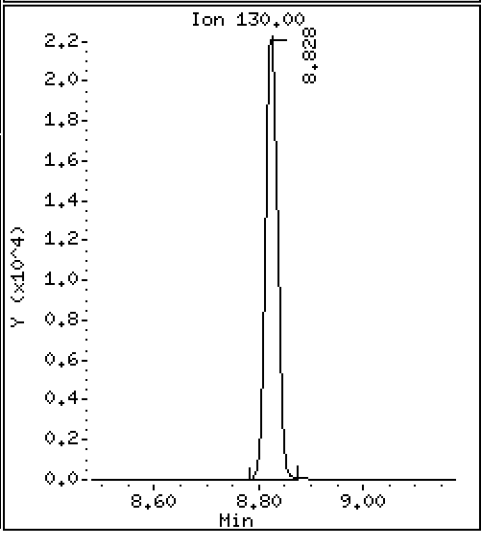


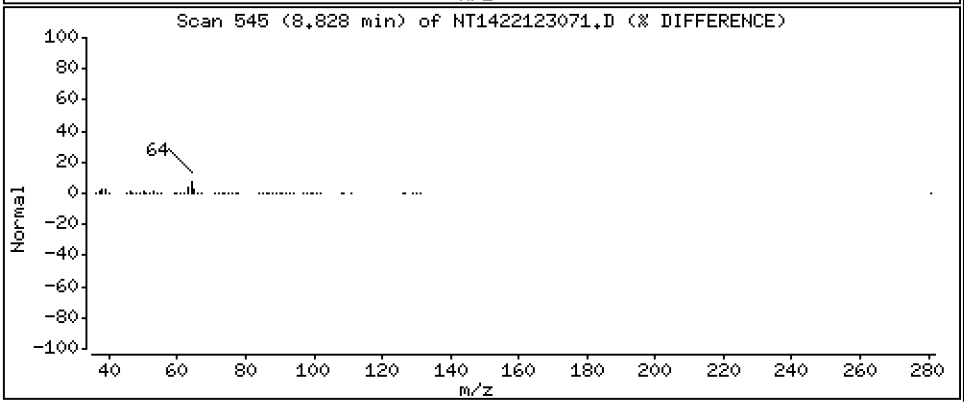












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

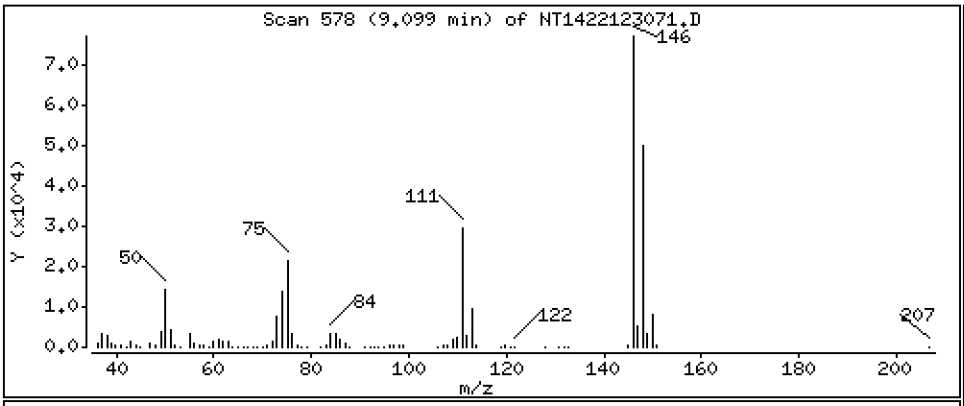
Operator: VTS

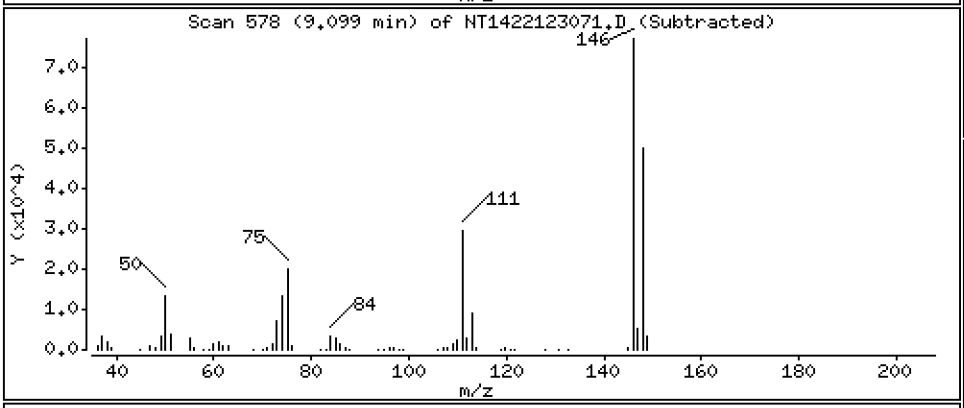
Column phase: ZB-5msi

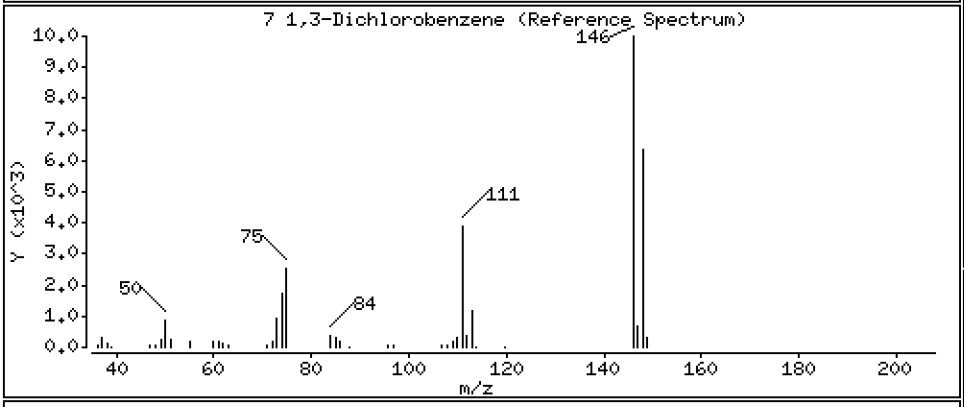
Column diameter: 0.25

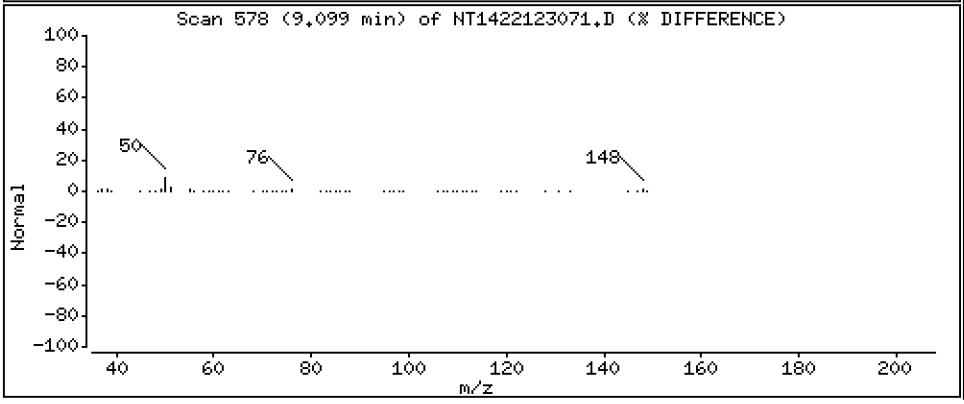
7 1,3-Dichlorobenzene

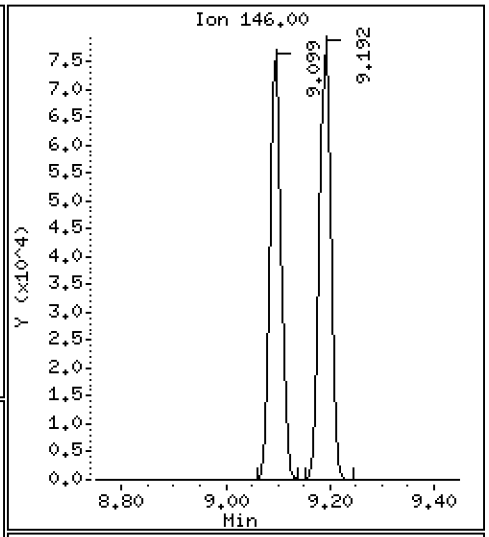
Concentration: 3.485 ug/mL

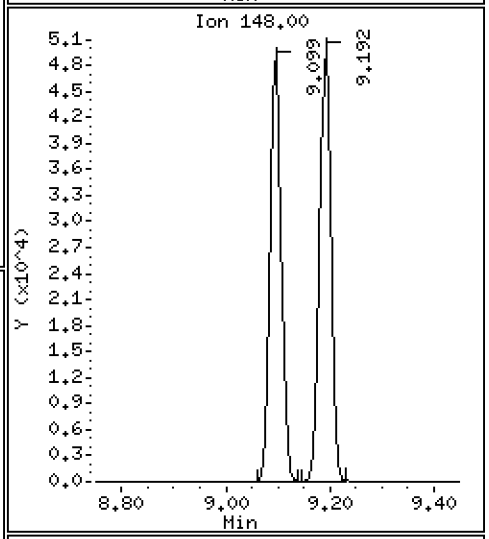


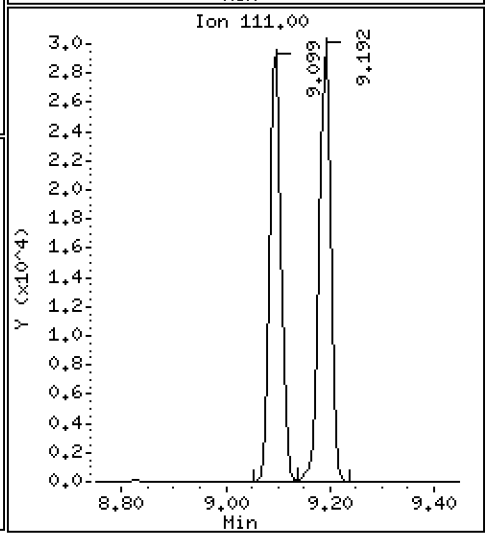












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

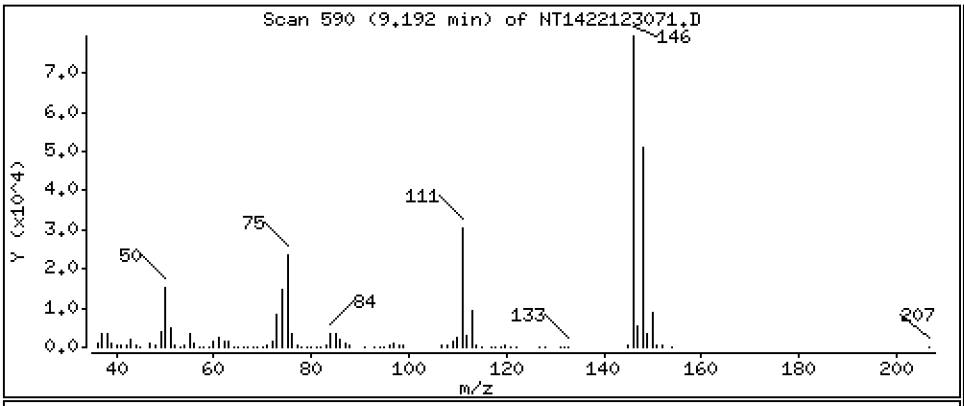
Operator: VTS

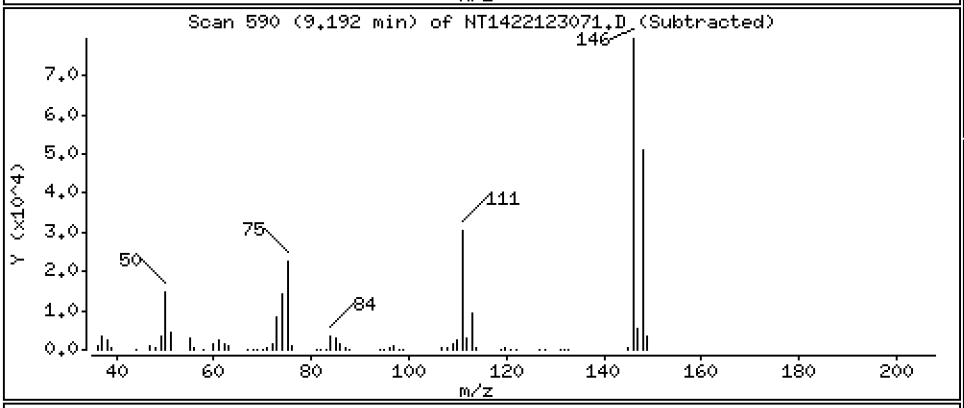
Column phase: ZB-5msi

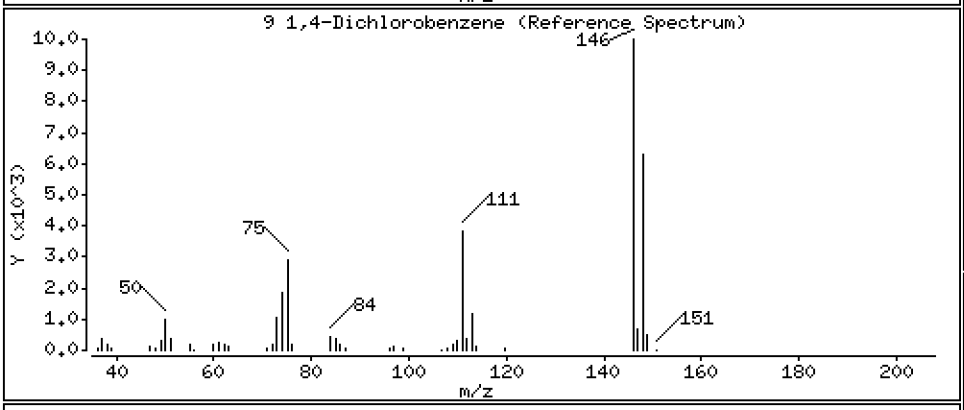
Column diameter: 0.25

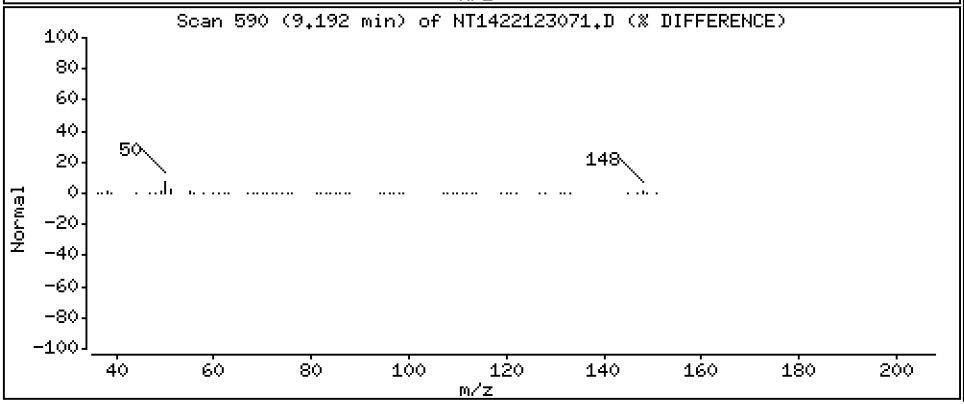
9 1,4-Dichlorobenzene

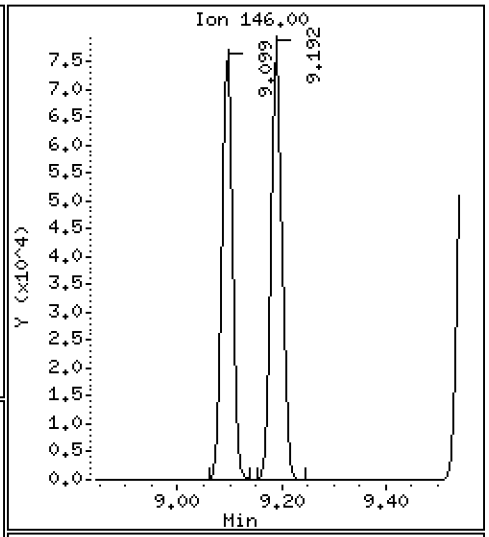
Concentration: 3.614 ug/mL

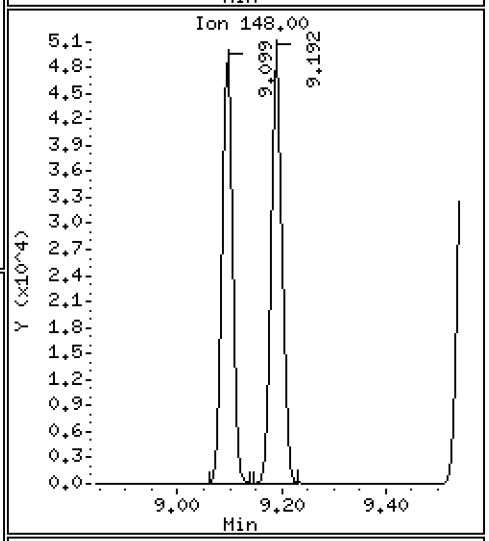


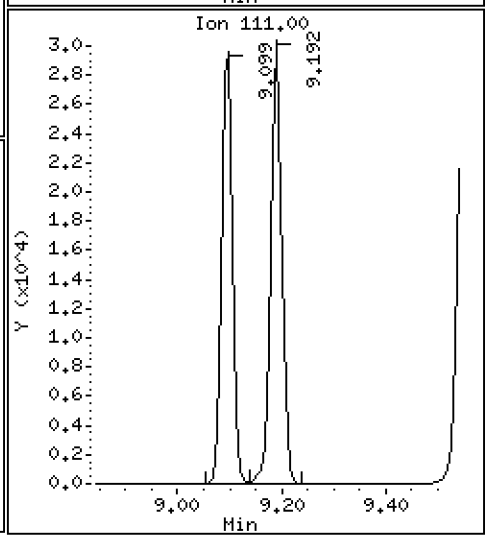












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

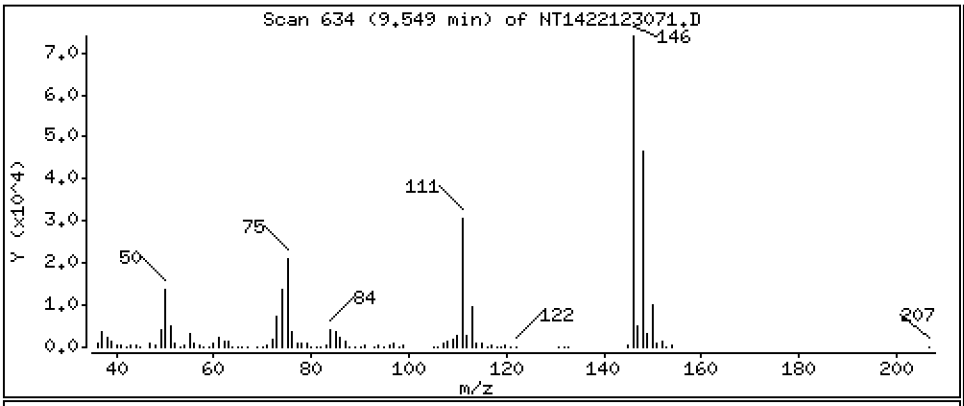
Operator: VTS

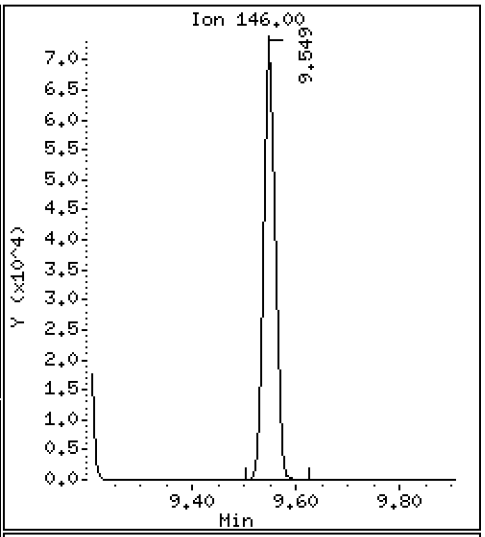
Column phase: ZB-5msi

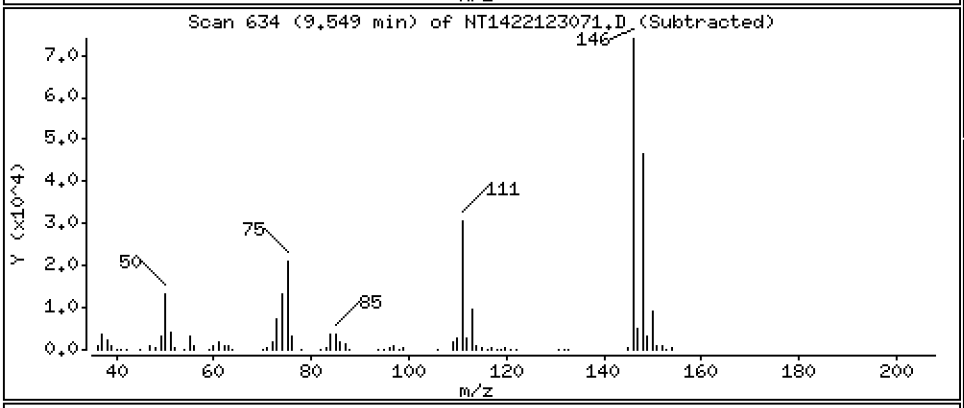
Column diameter: 0.25

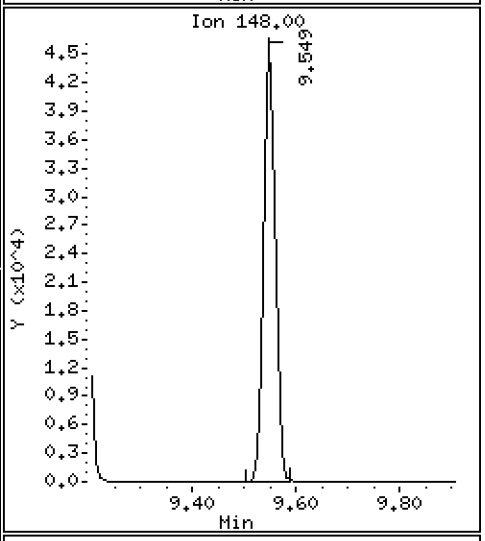
12 1,2-Dichlorobenzene

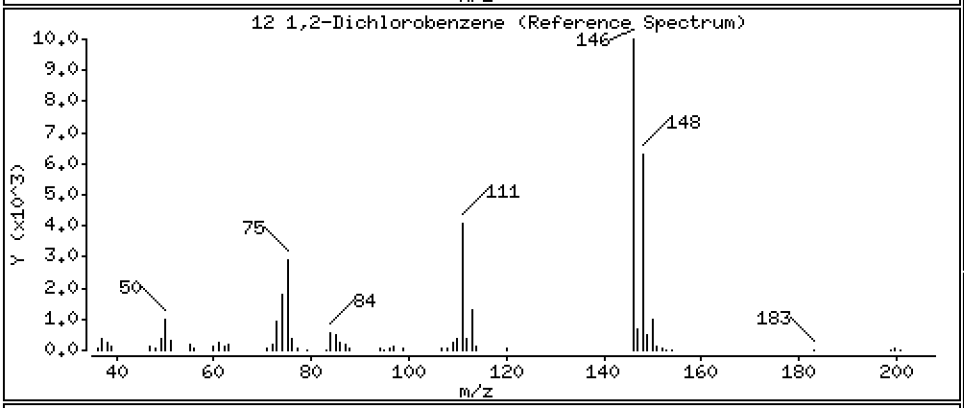
Concentration: 3.591 ug/mL

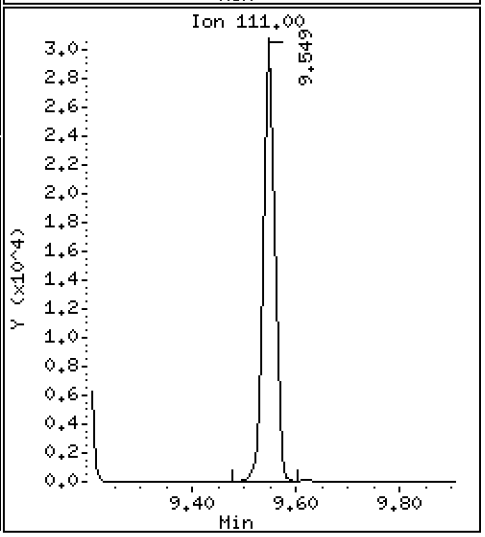


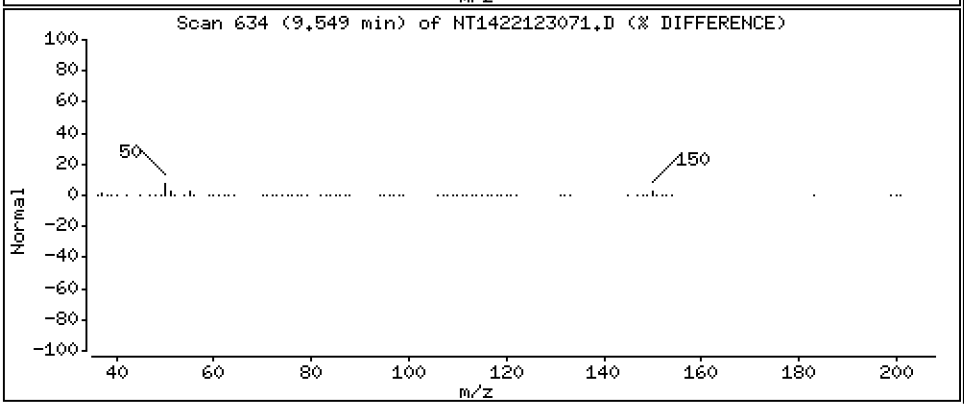












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

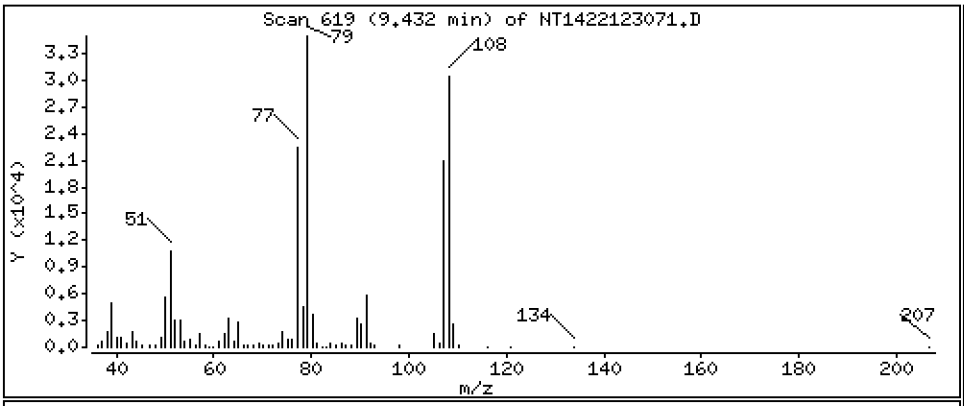
Operator: VTS

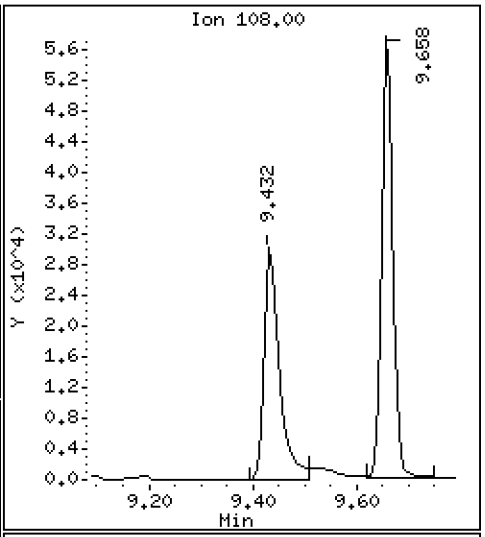
Column phase: ZB-5msi

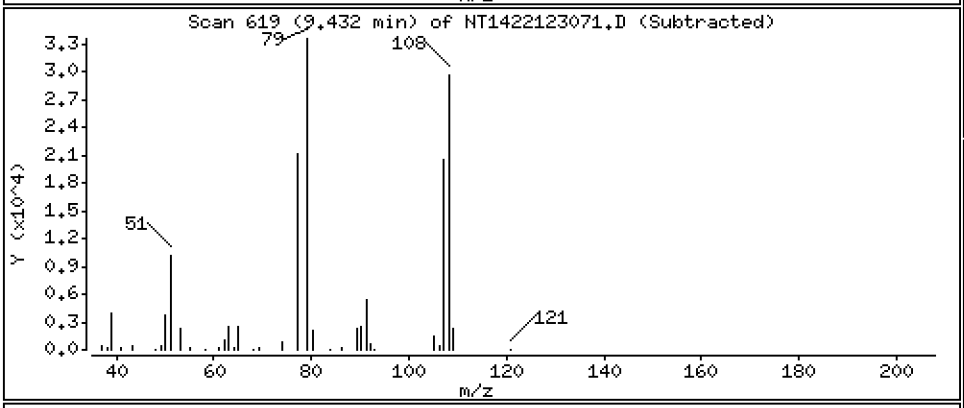
Column diameter: 0.25

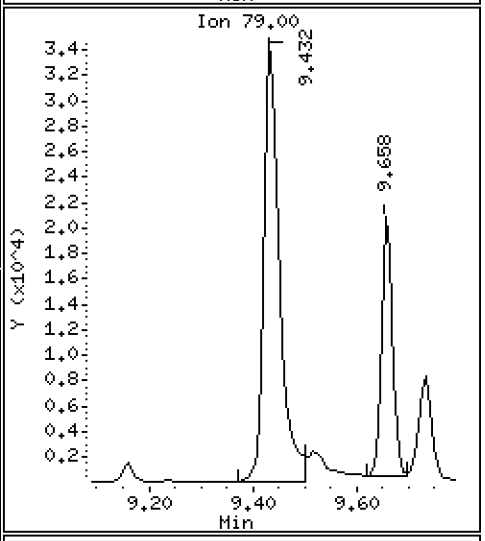
11 Benzyl alcohol

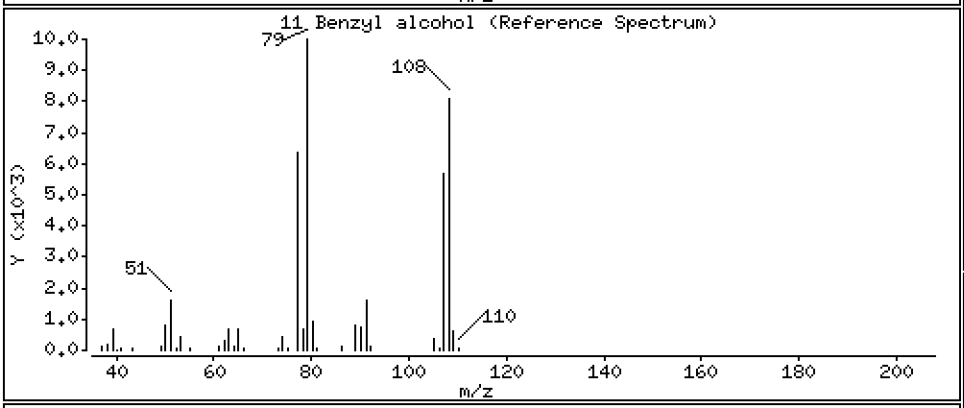
Concentration: 3.552 ug/mL

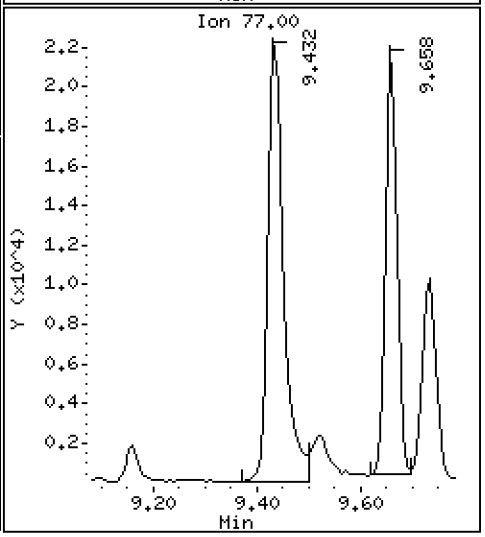


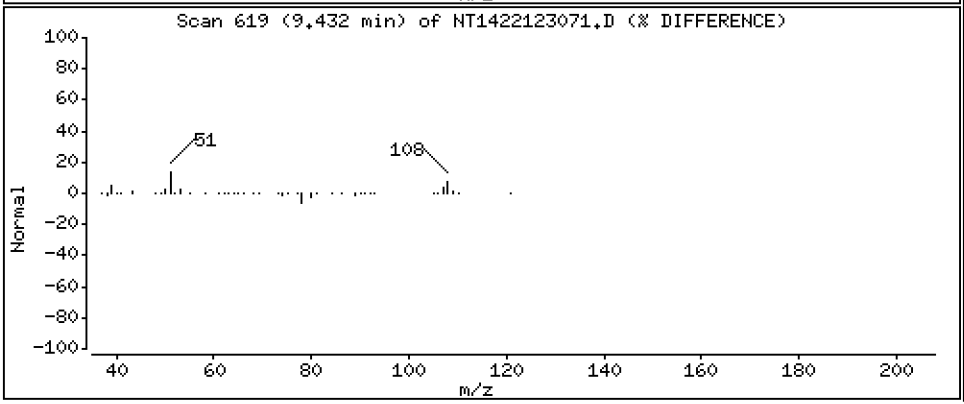












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

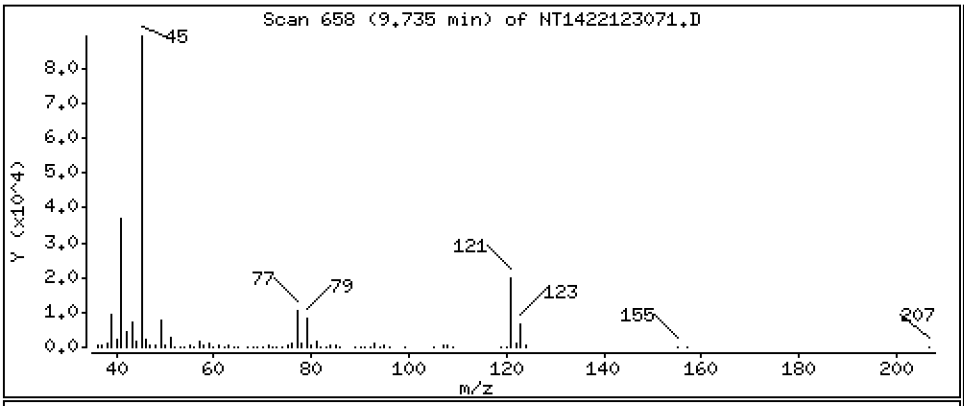
Operator: VTS

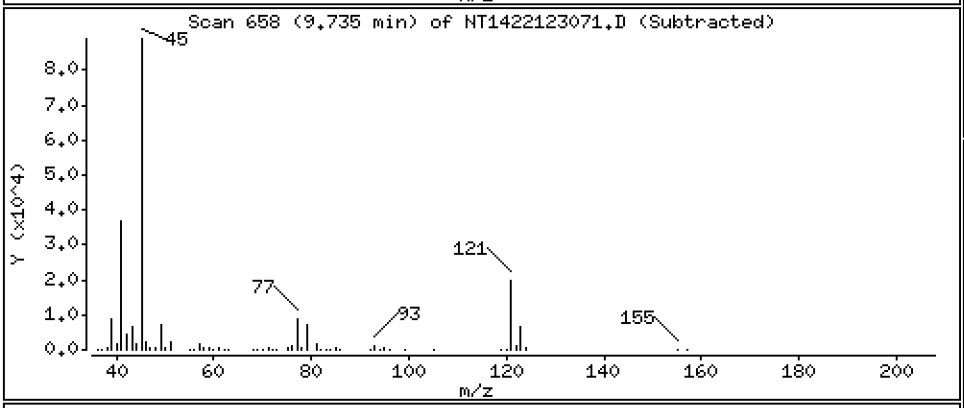
Column phase: ZB-5msi

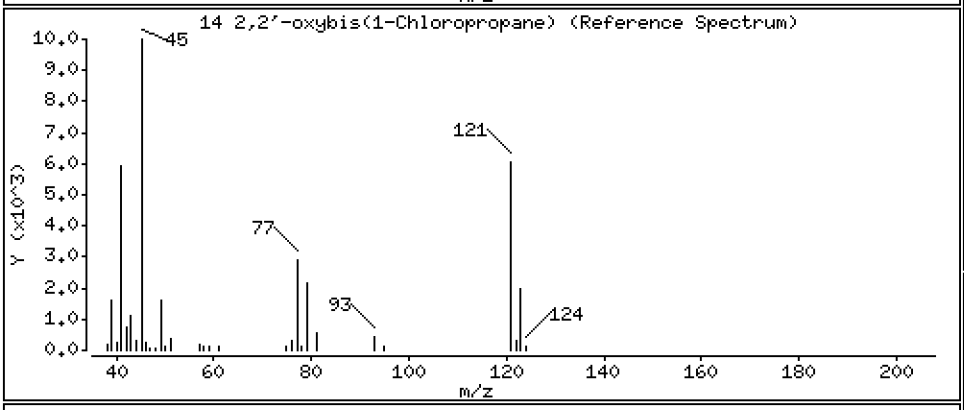
Column diameter: 0.25

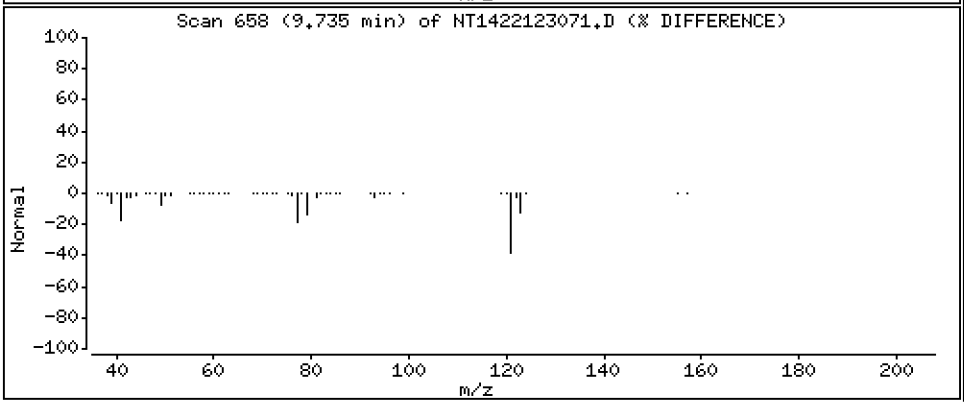
14 2,2'-oxybis(1-Chloropropane)

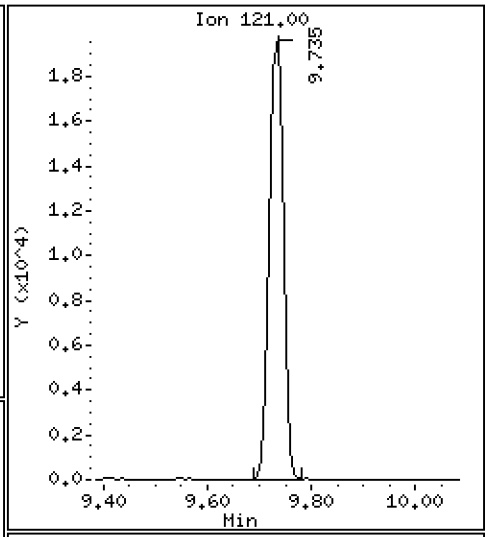
Concentration: 4.019 ug/mL

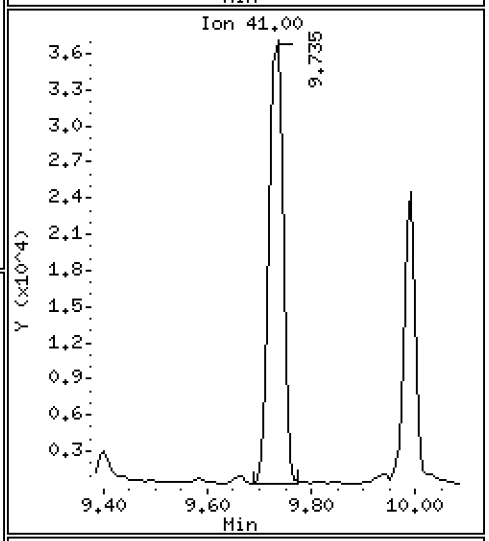


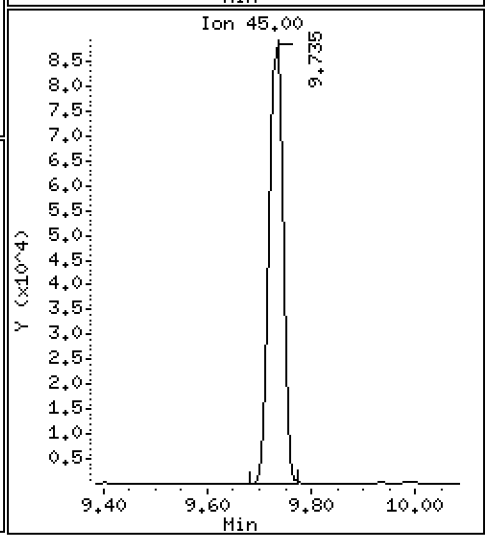












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

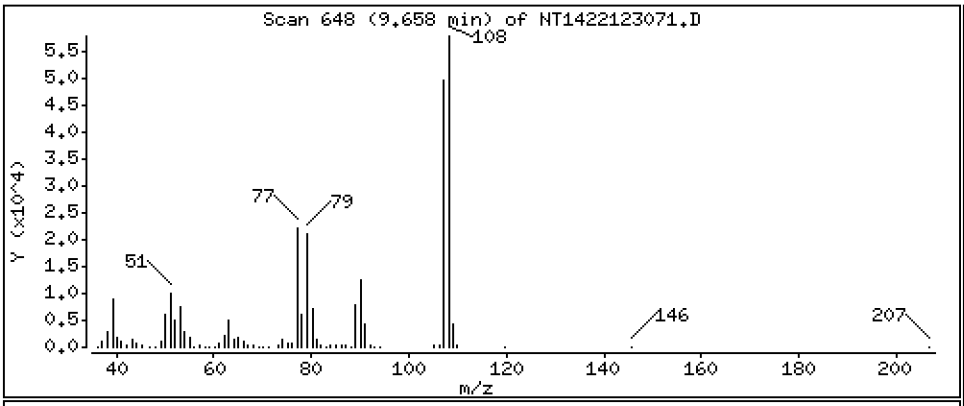
Operator: VTS

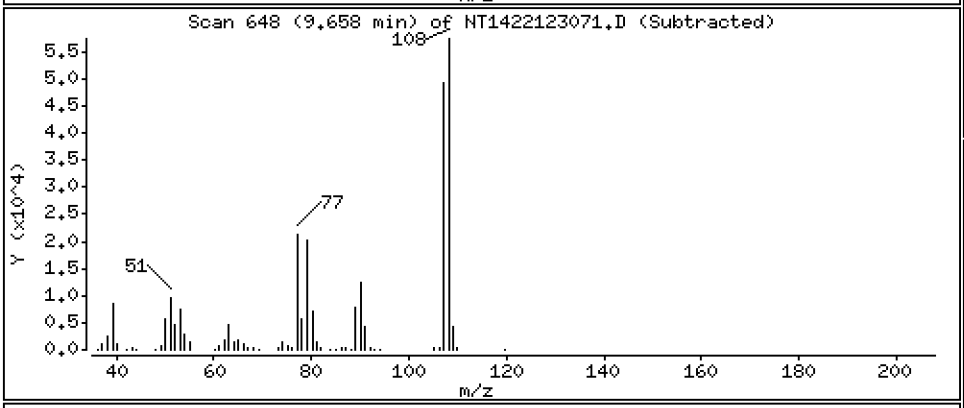
Column phase: ZB-5msi

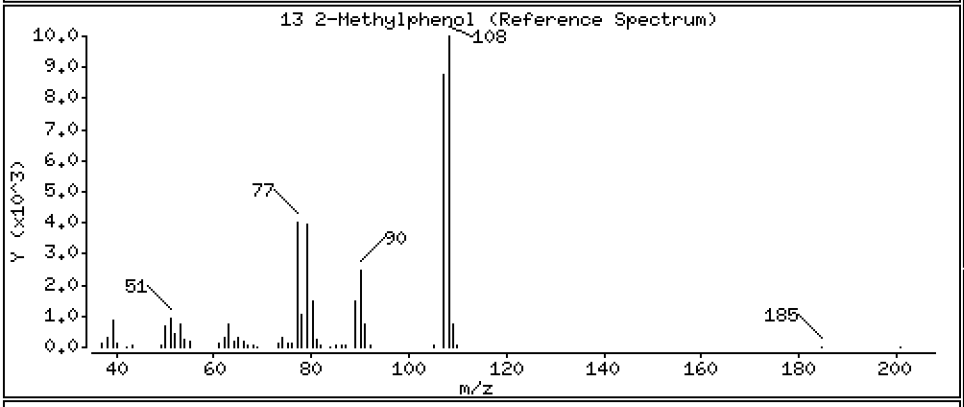
Column diameter: 0.25

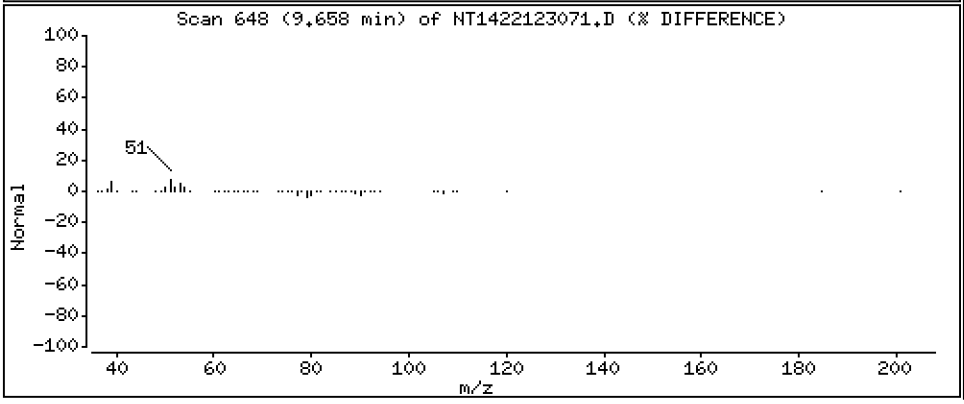
13 2-Methylphenol

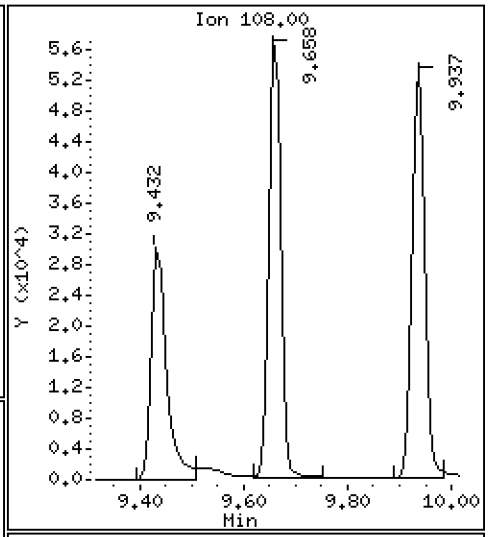
Concentration: 3.080 ug/mL

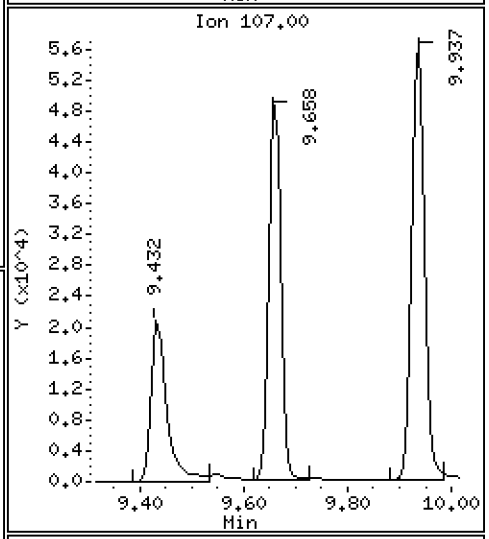


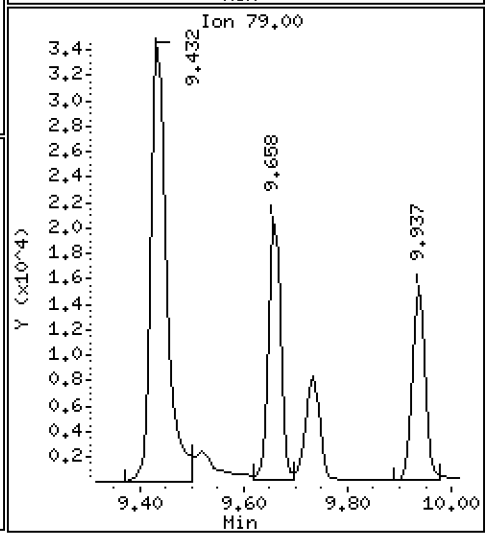












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

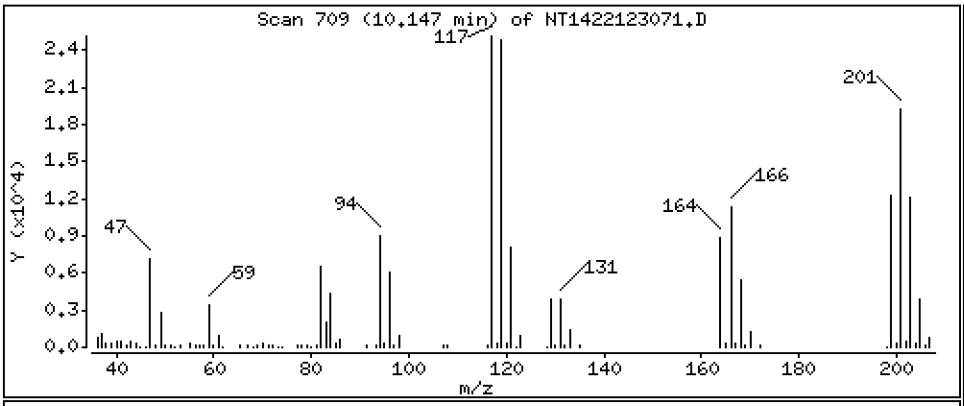
Operator: VTS

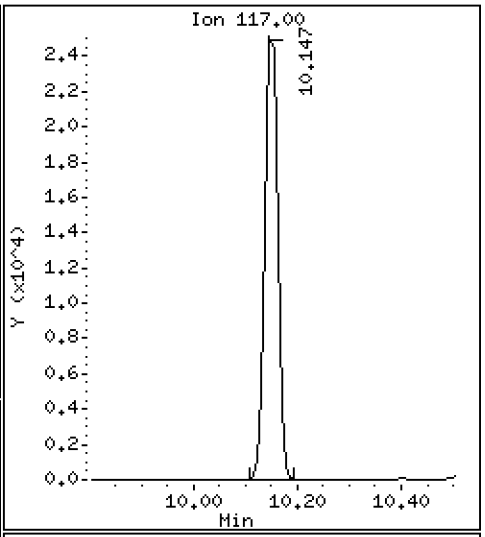
Column phase: ZB-5msi

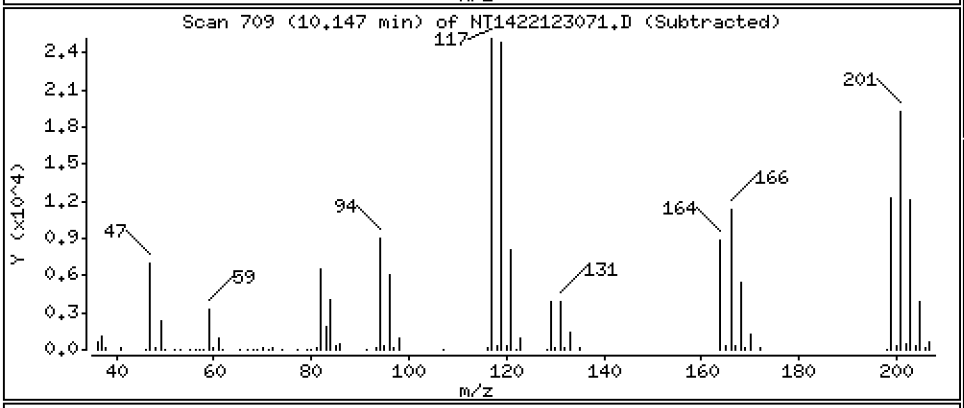
Column diameter: 0.25

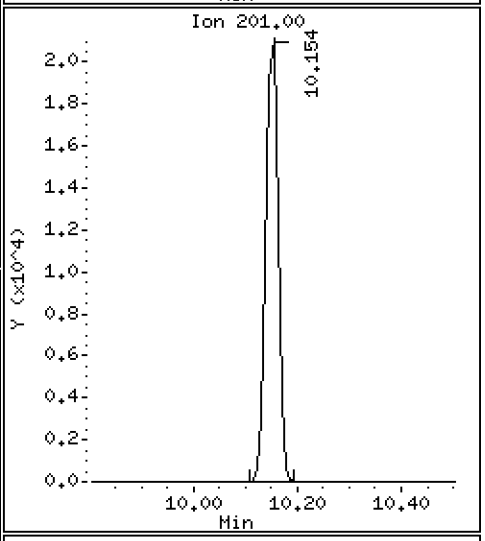
17 Hexachloroethane

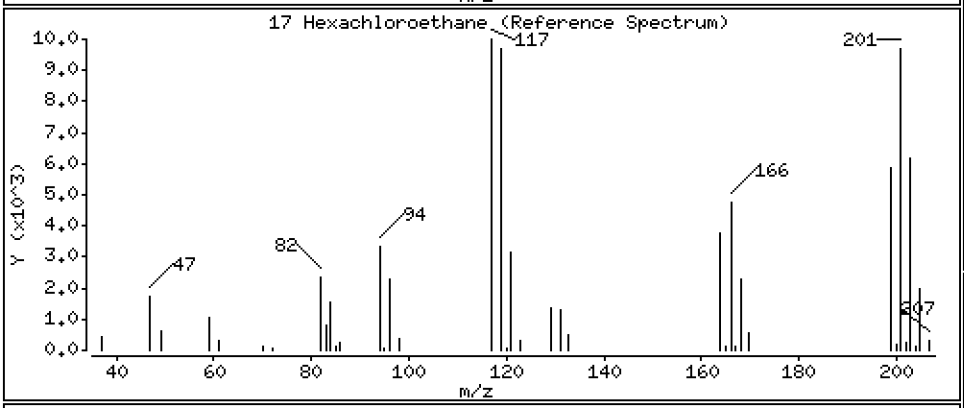
Concentration: 3.589 ug/mL

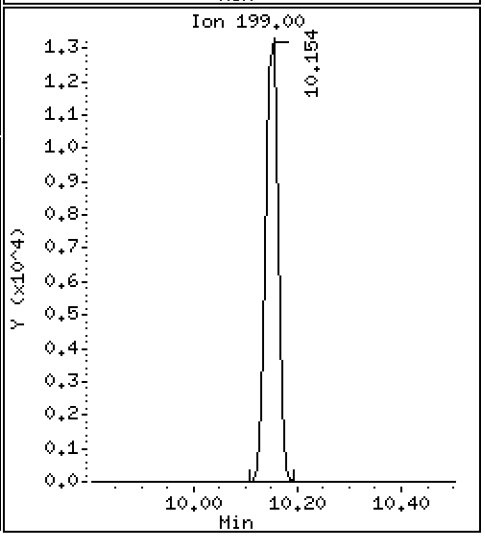


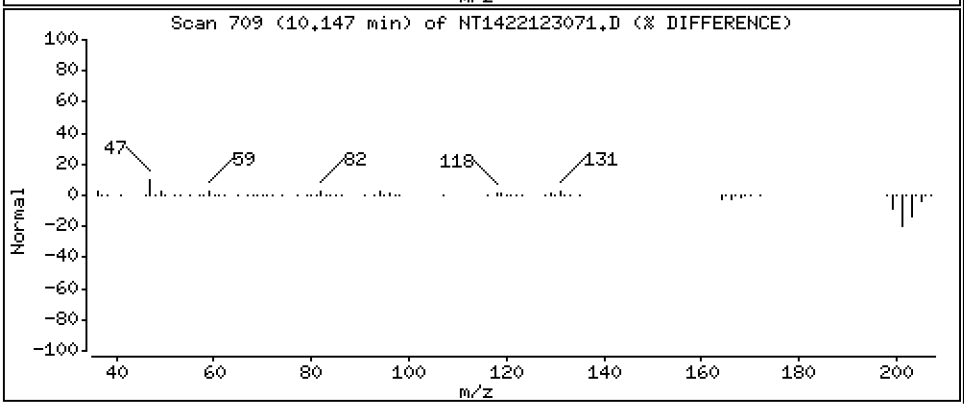












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

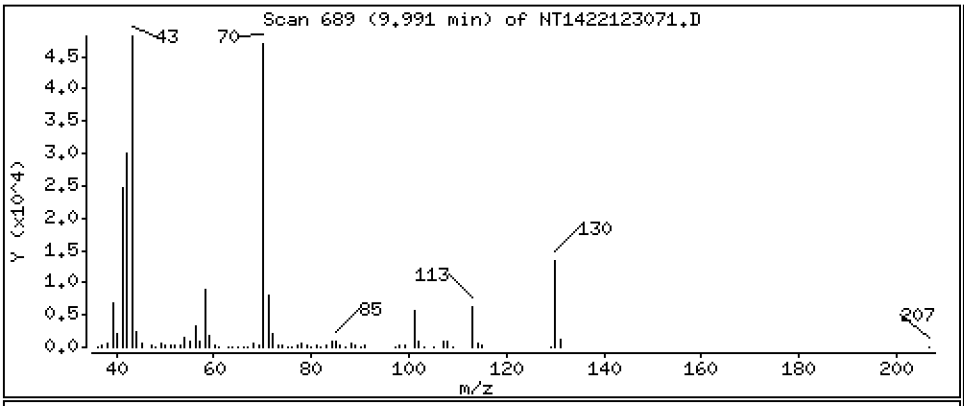
Operator: VTS

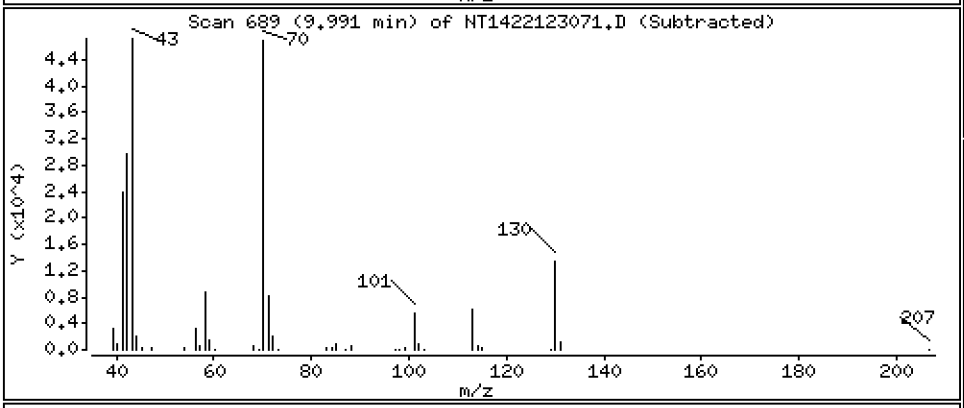
Column phase: ZB-5msi

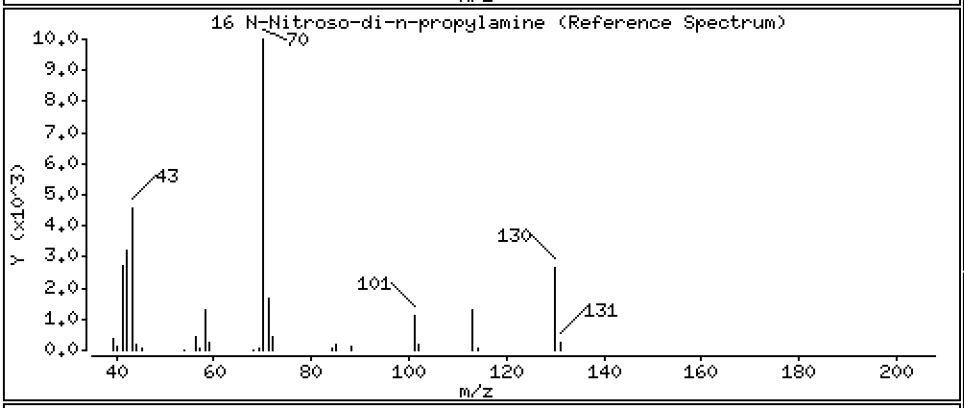
Column diameter: 0.25

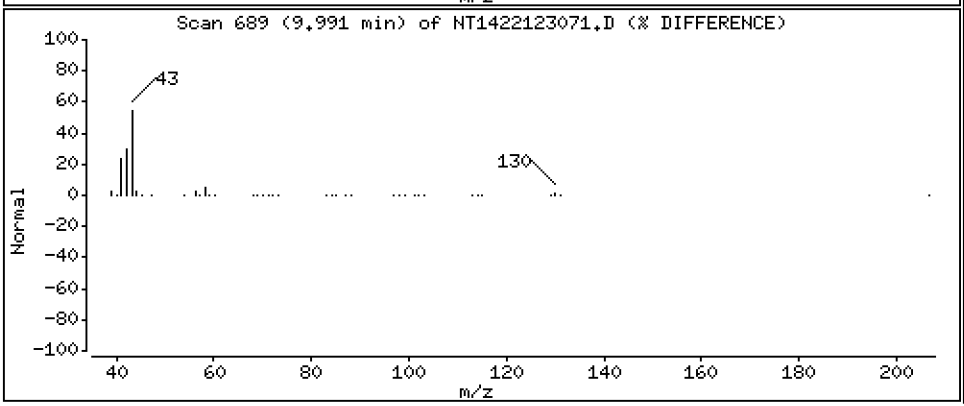
16 N-Nitroso-di-n-propylamine

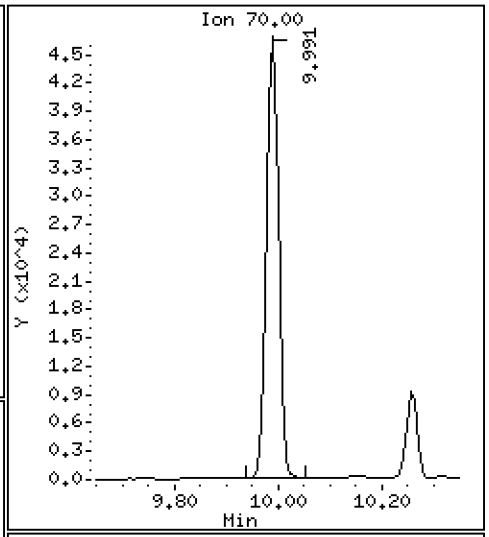
Concentration: 4.292 ug/mL

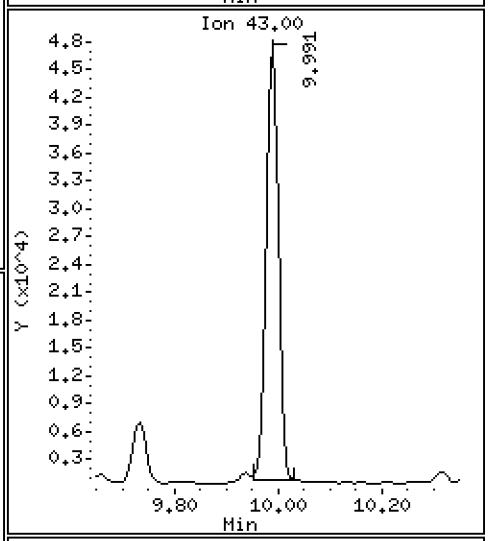


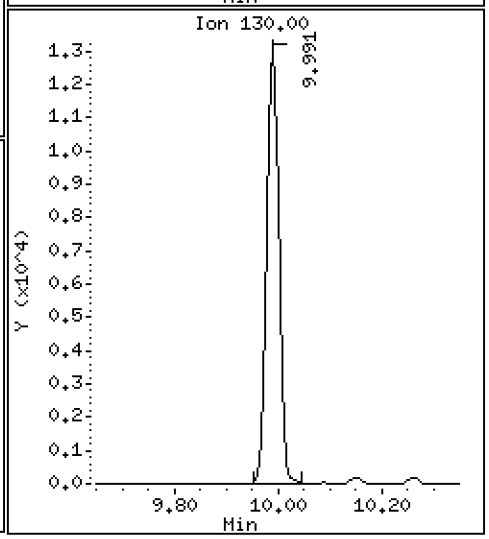












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

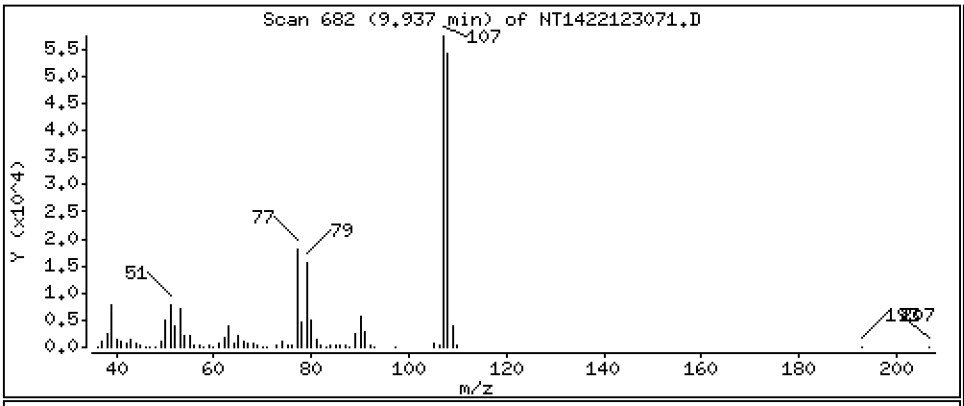
Operator: VTS

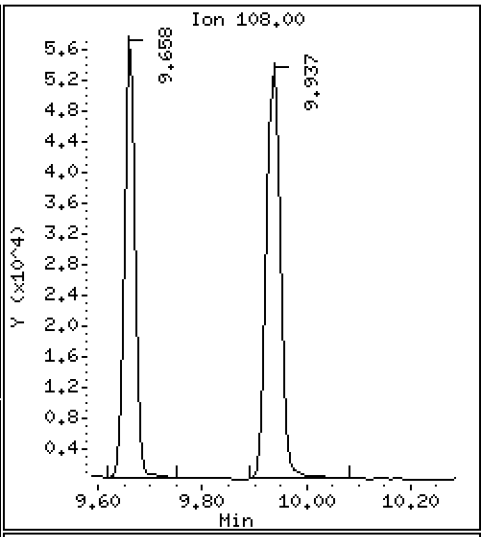
Column phase: ZB-5msi

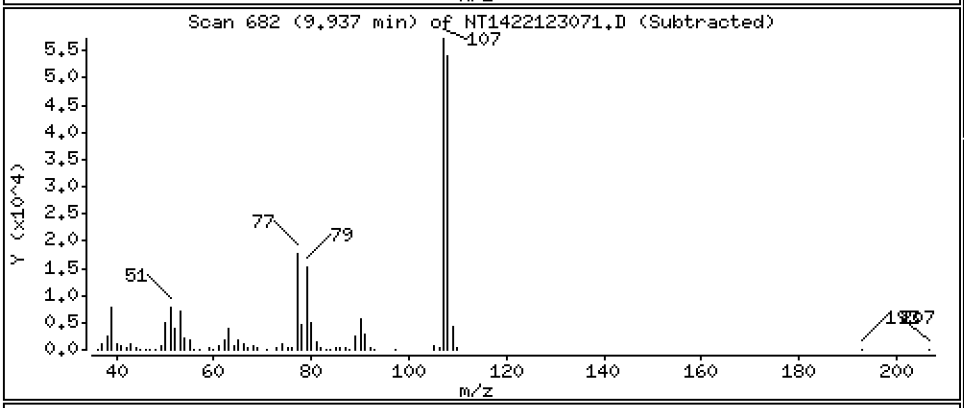
Column diameter: 0.25

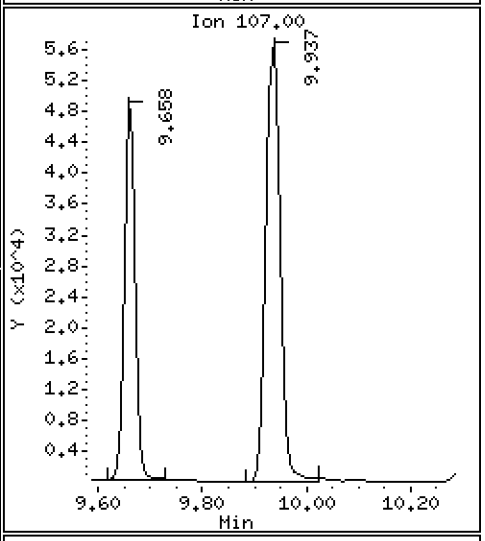
15 4-Methylphenol

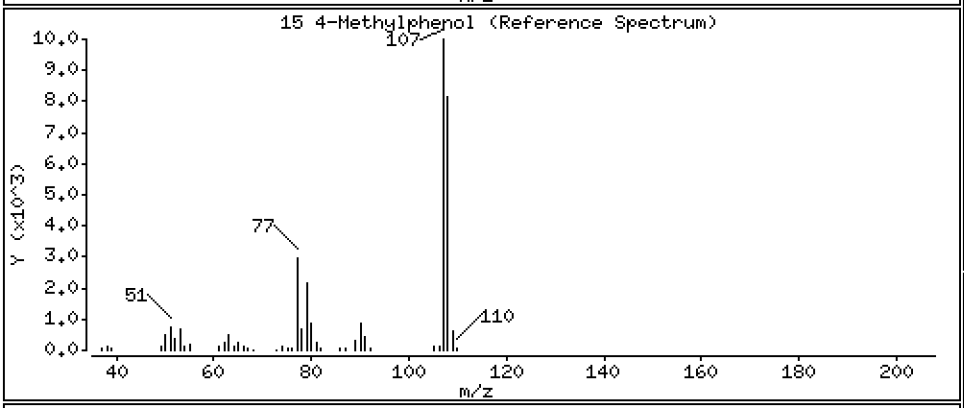
Concentration: 3.339 ug/mL

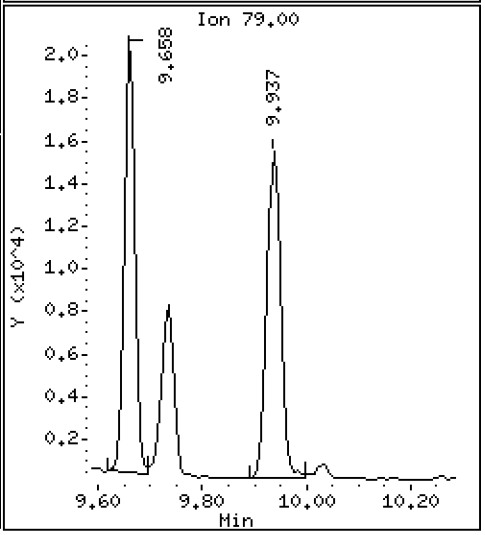


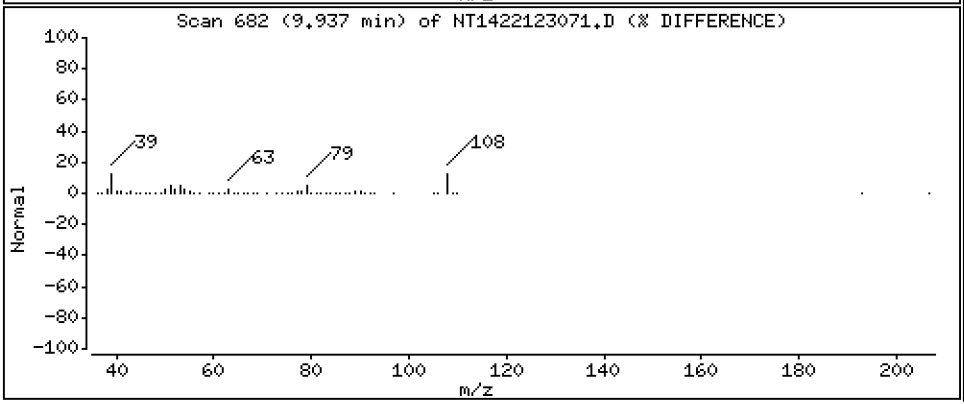












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

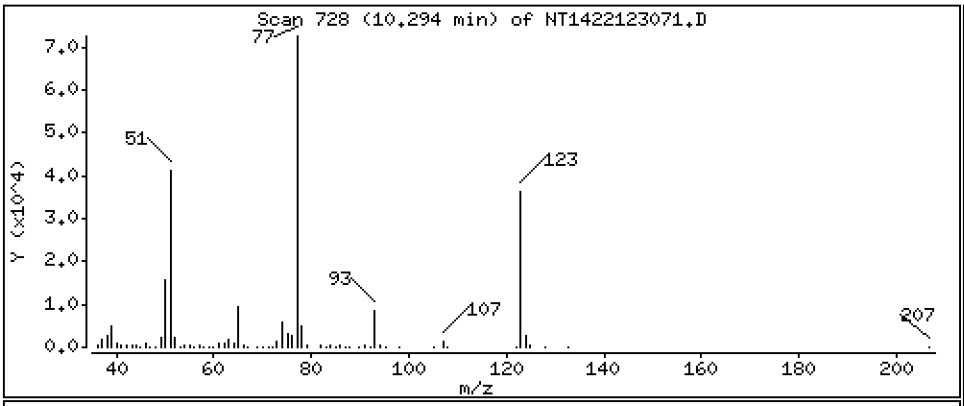
Operator: VTS

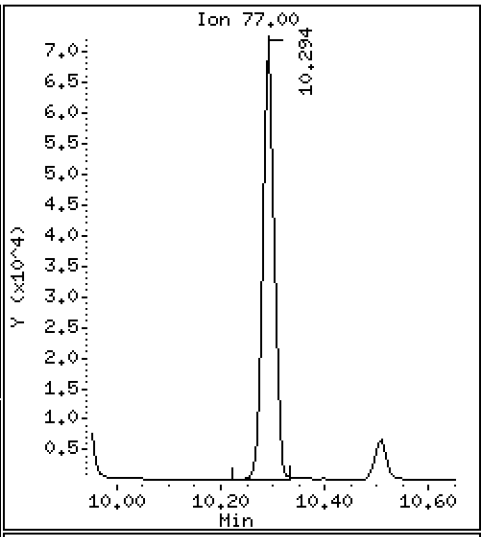
Column phase: ZB-5msi

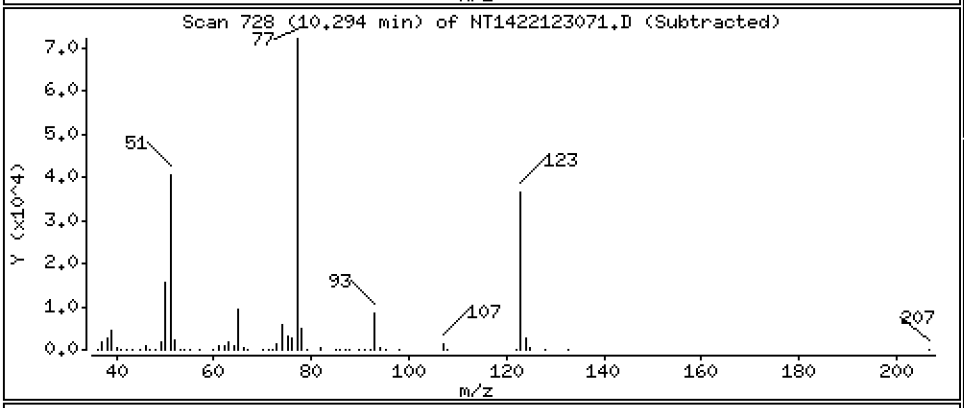
Column diameter: 0.25

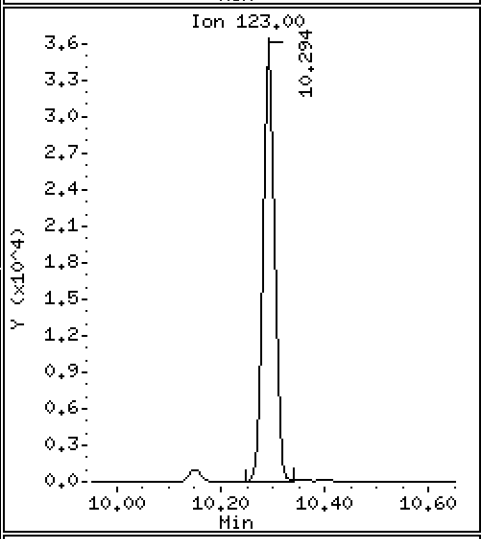
19 Nitrobenzene

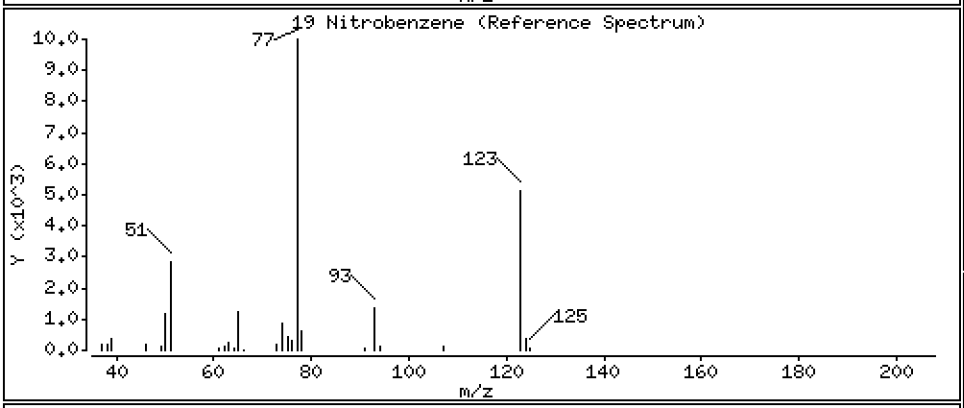
Concentration: 4.124 ug/mL

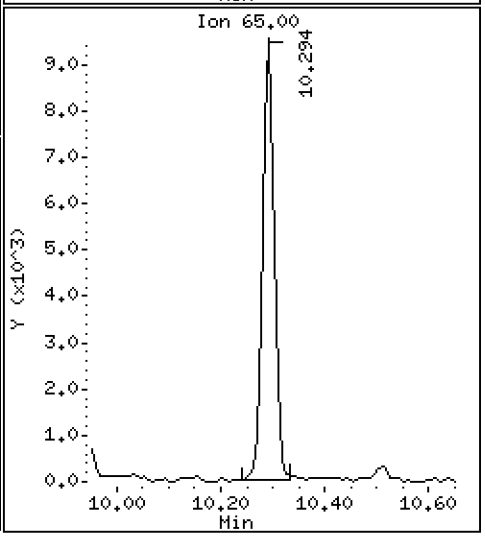


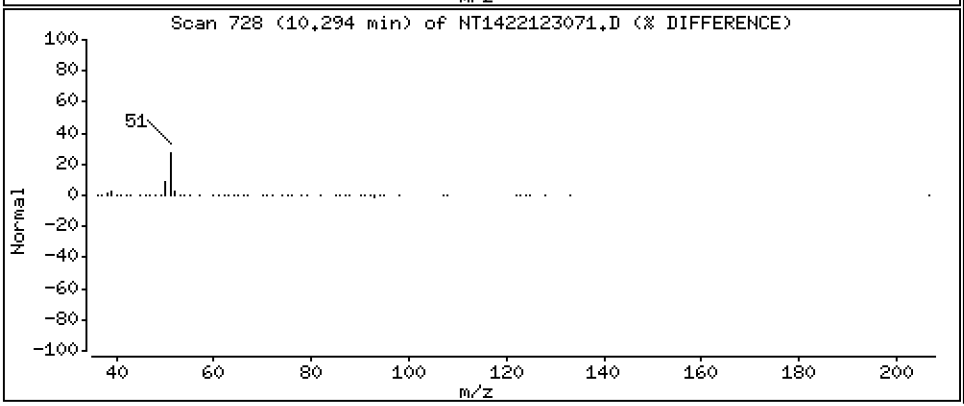












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

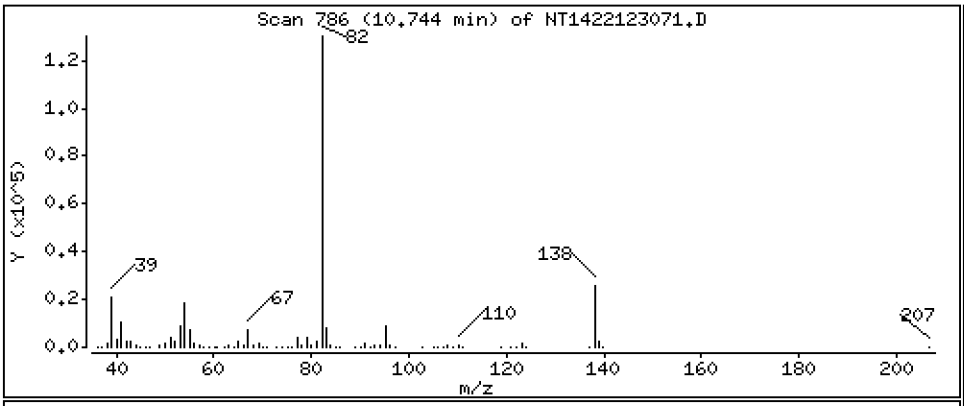
Operator: VTS

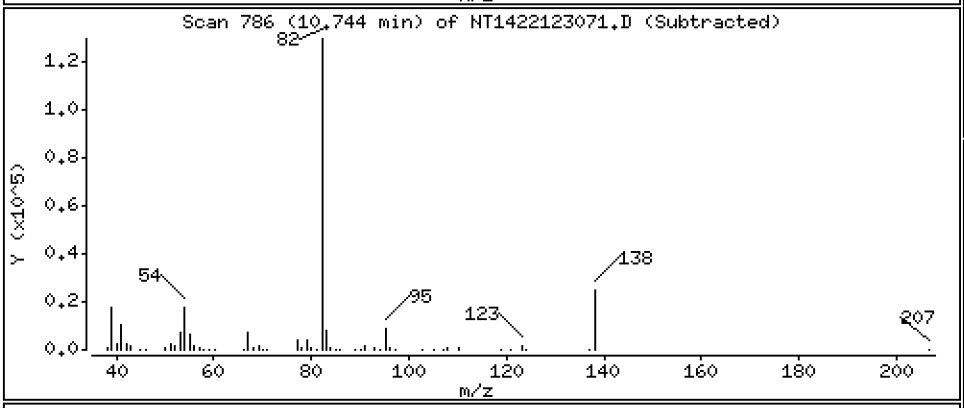
Column phase: ZB-5msi

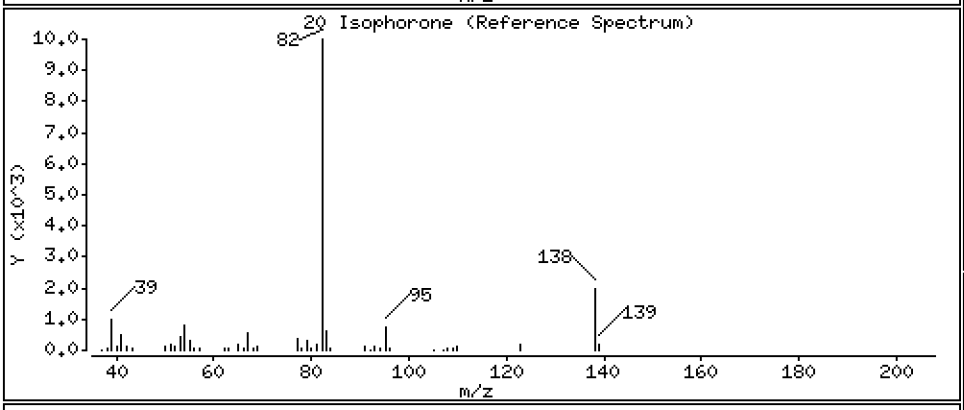
Column diameter: 0.25

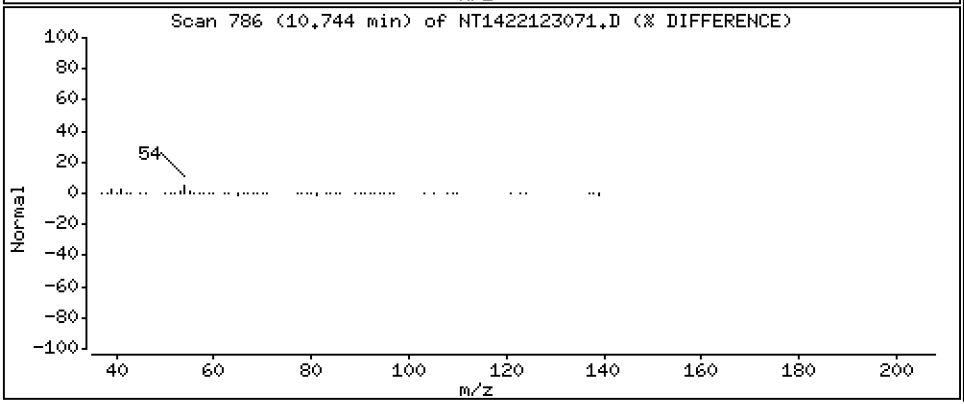
20 Isophorone

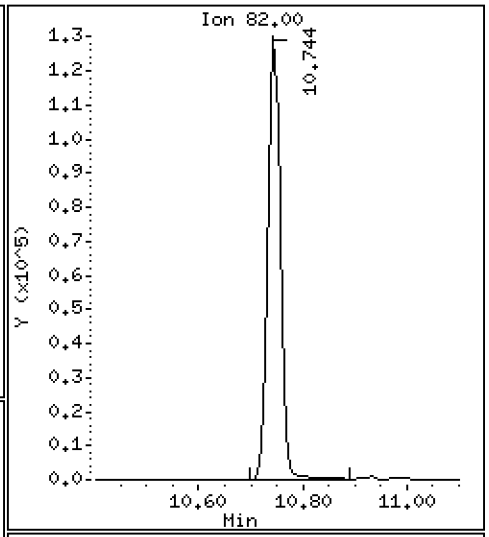
Concentration: 6.212 ug/mL

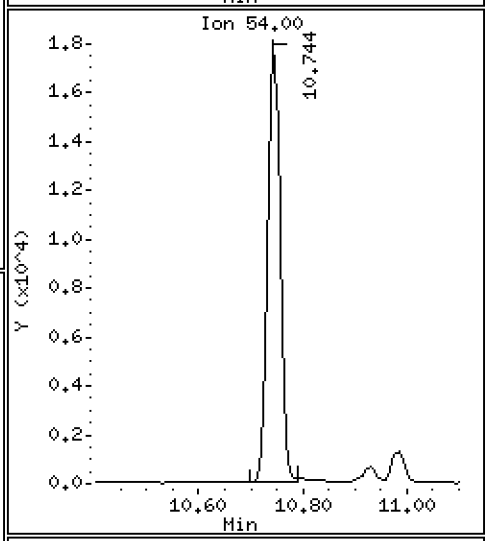


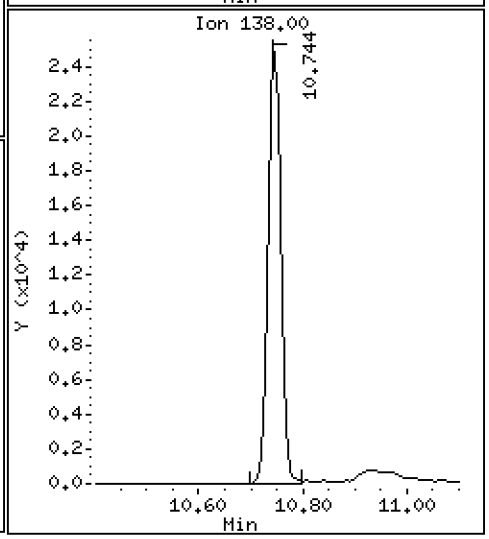












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

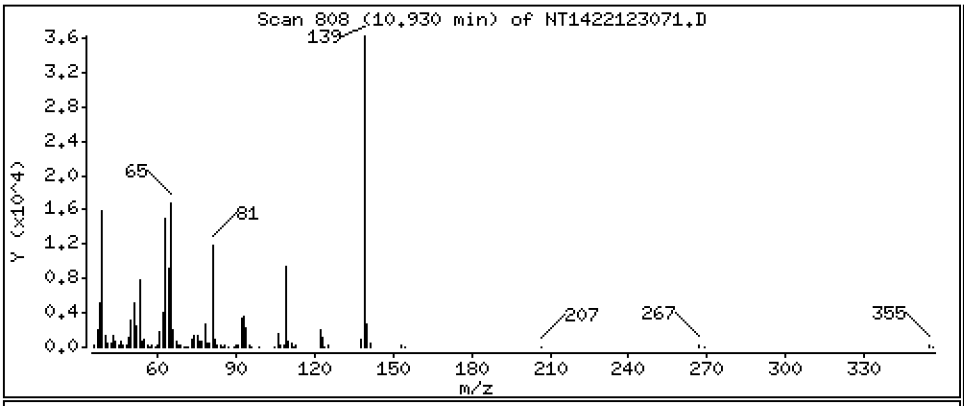
Operator: VTS

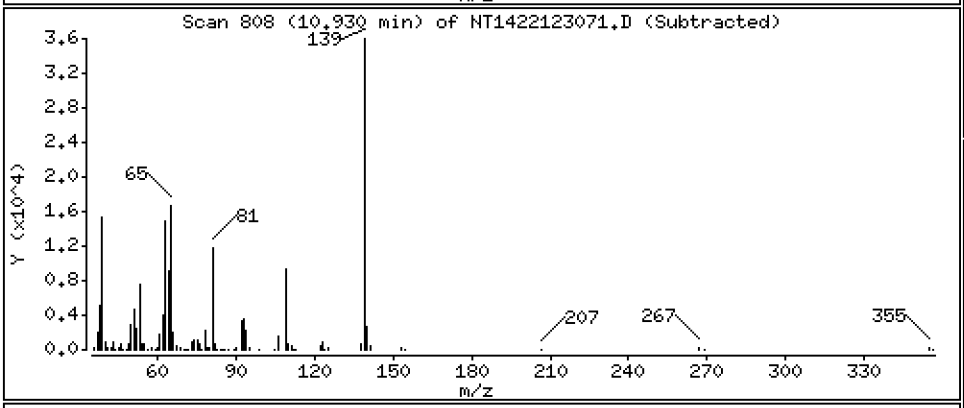
Column phase: ZB-5msi

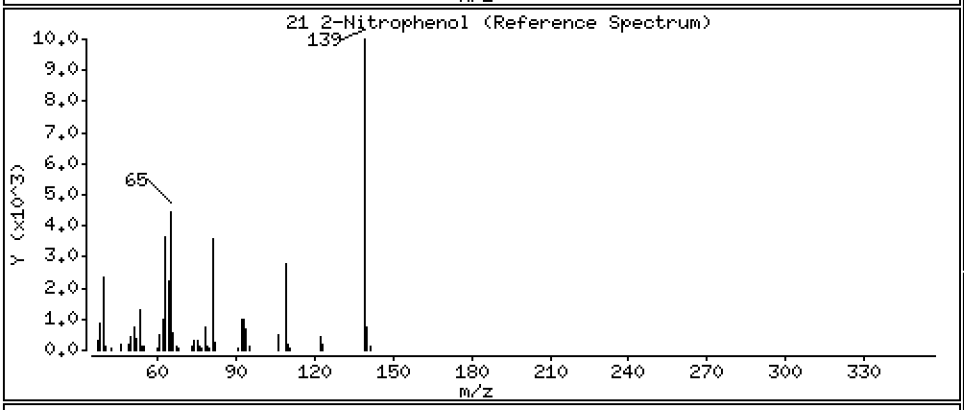
Column diameter: 0.25

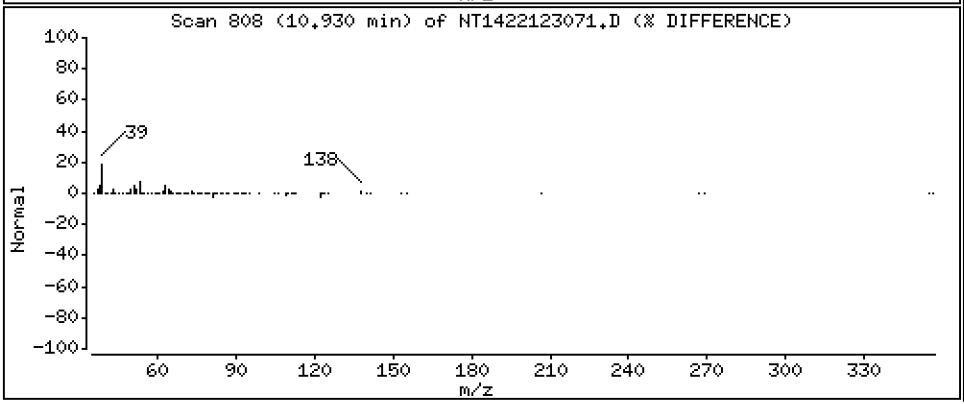
21 2-Nitrophenol

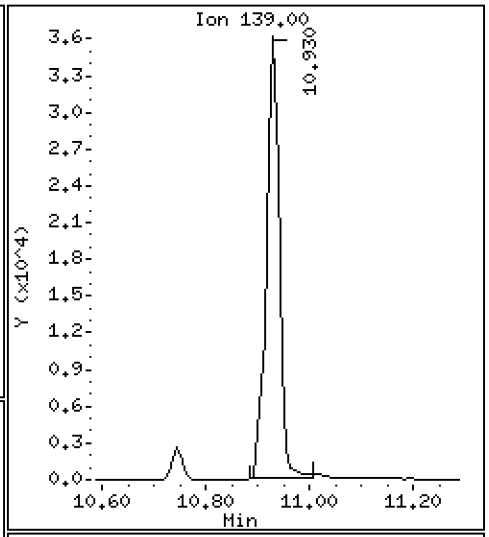
Concentration: 3.763 ug/mL

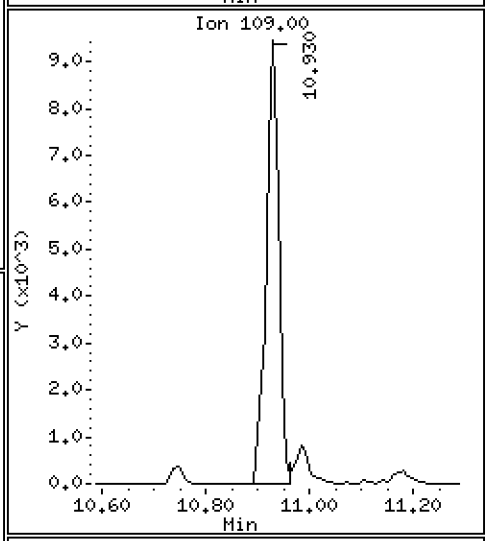


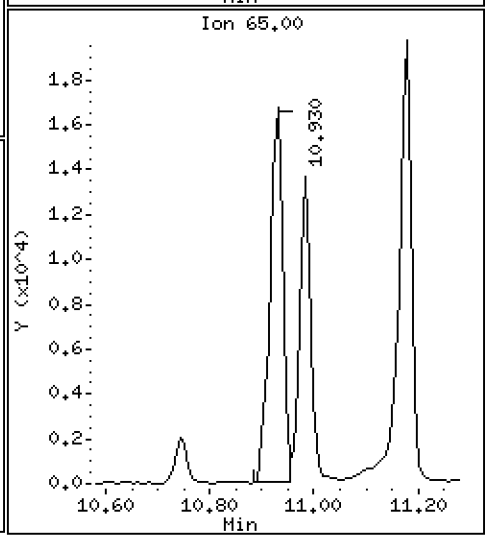












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

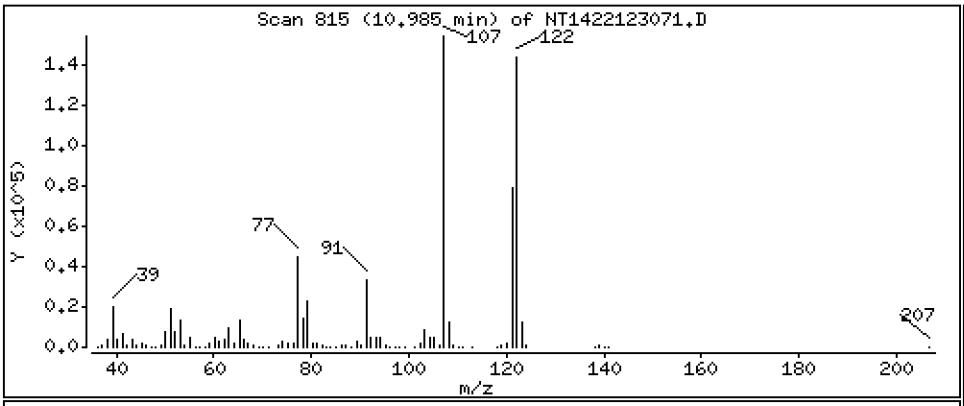
Operator: VTS

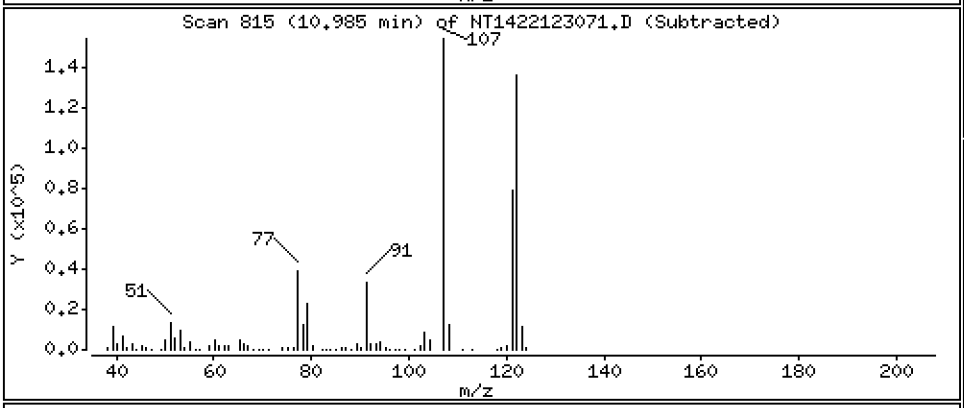
Column phase: ZB-5msi

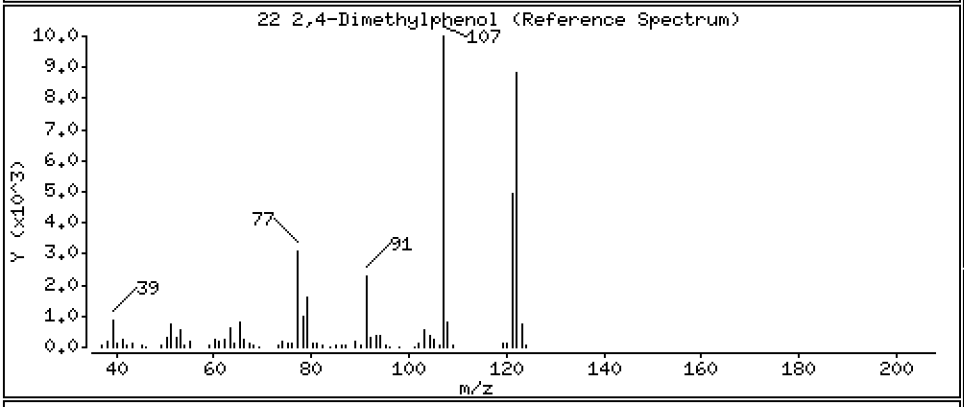
Column diameter: 0.25

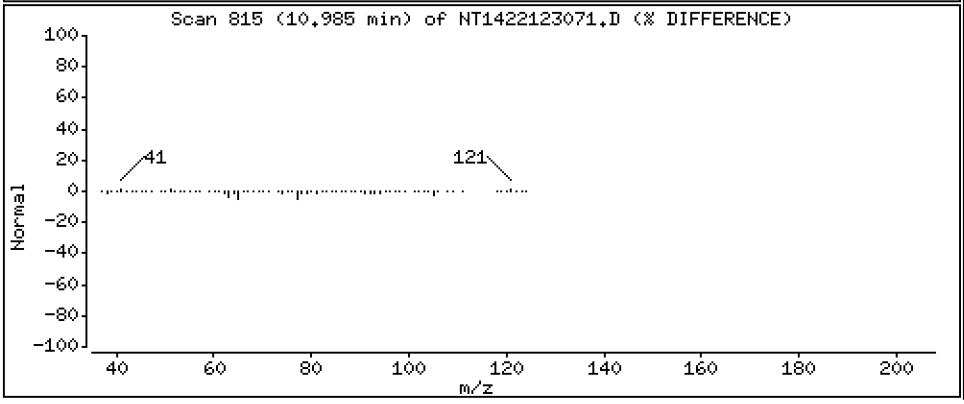
22 2,4-Dimethylphenol

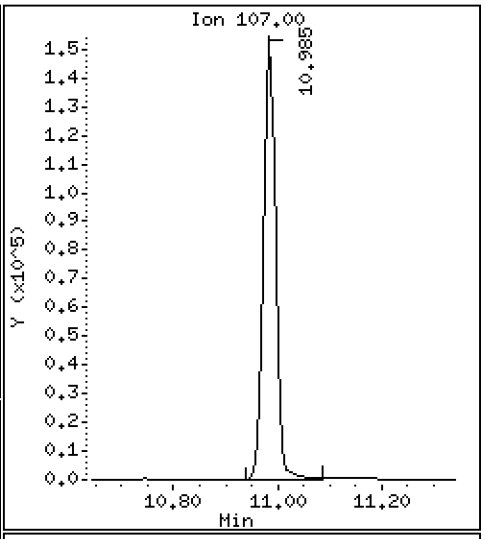
Concentration: 8.605 ug/mL

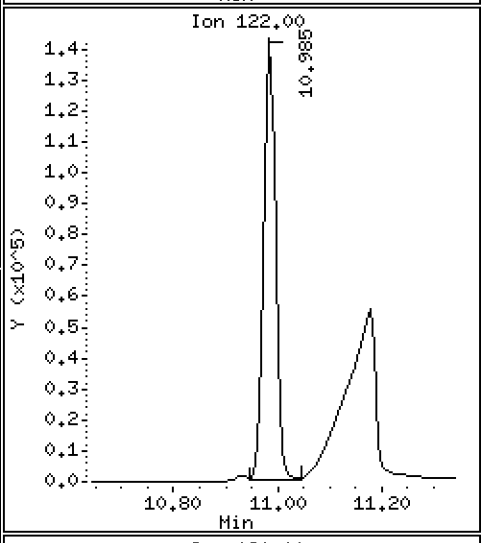


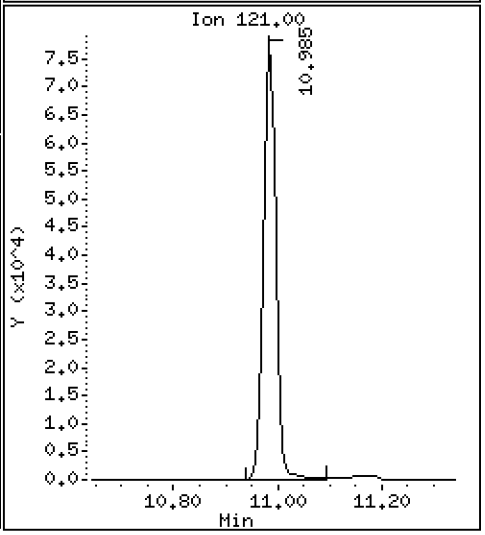












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

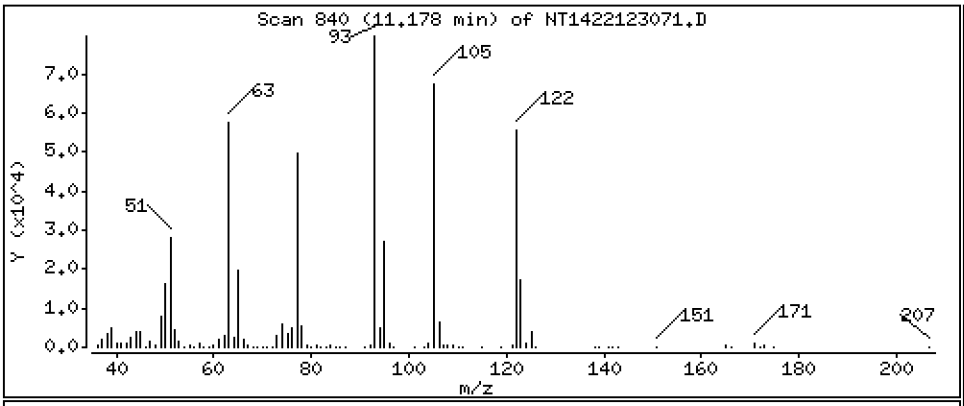
Operator: VTS

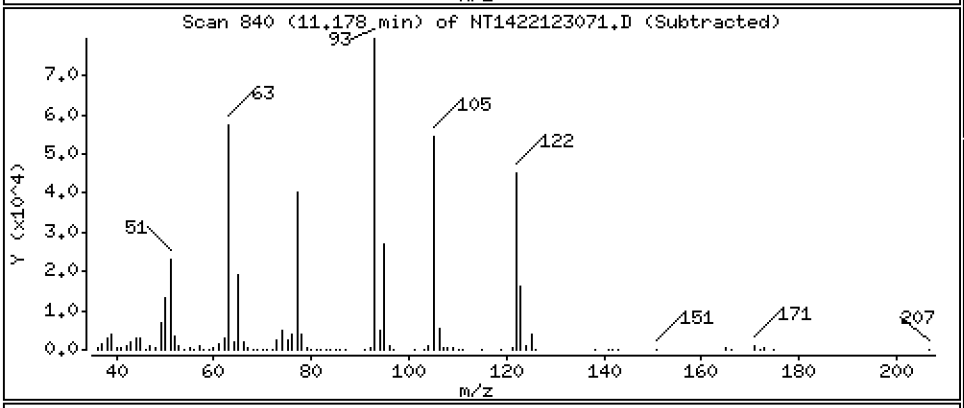
Column phase: ZB-5msi

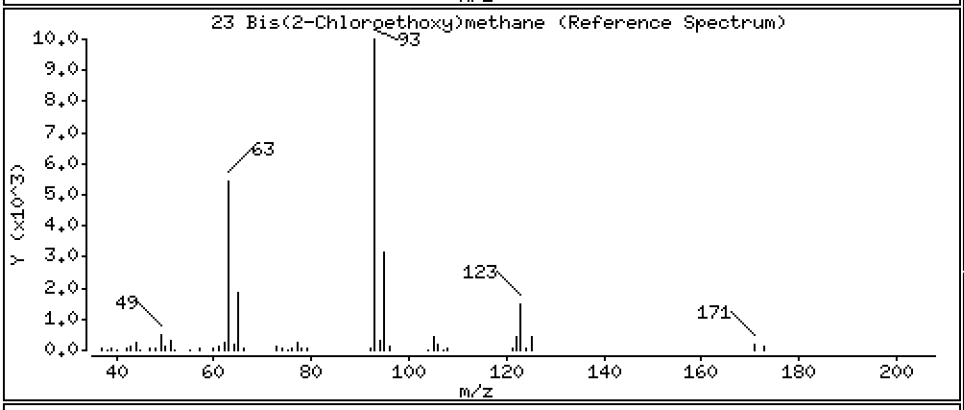
Column diameter: 0.25

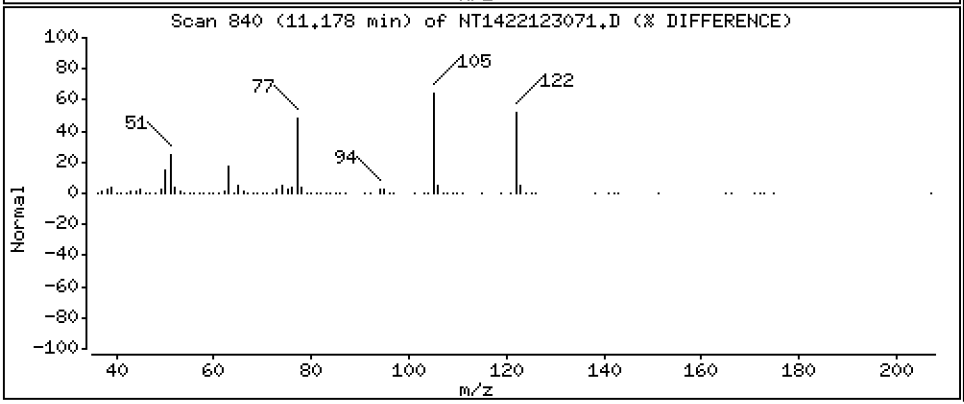
23 Bis(2-Chloroethoxy)methane

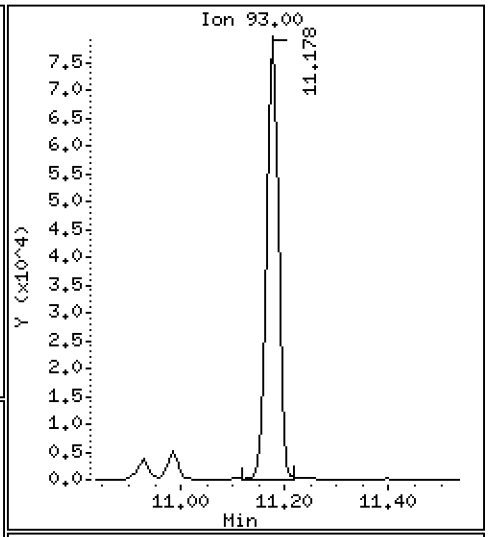
Concentration: 4.564 ug/mL

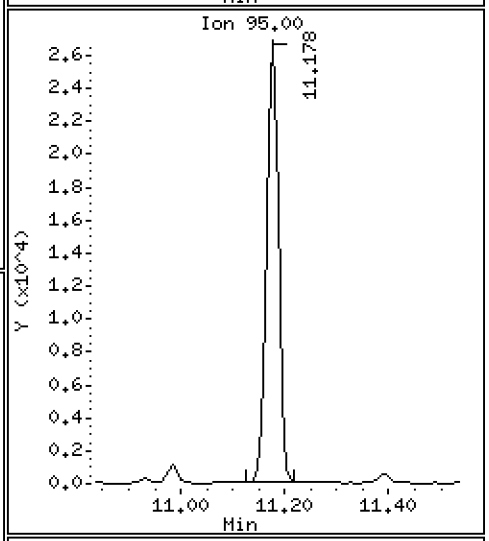


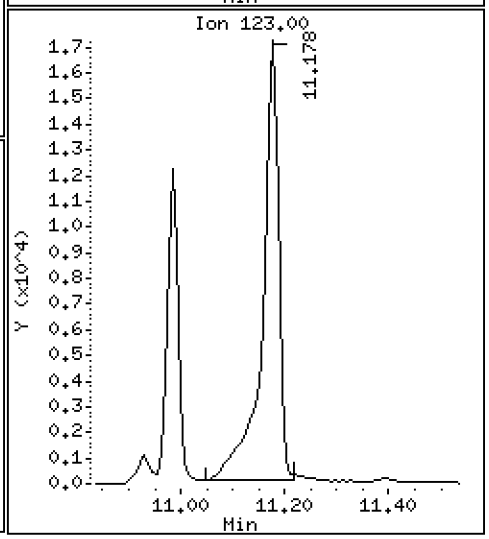












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123071.D

Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

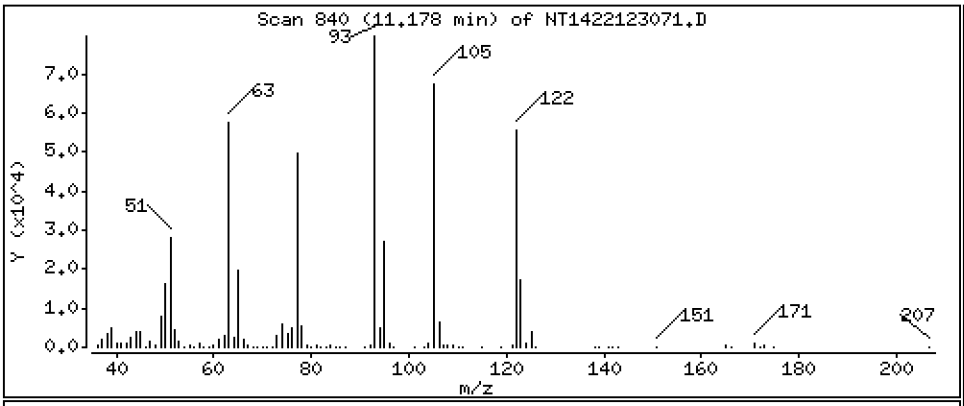
Operator: VTS

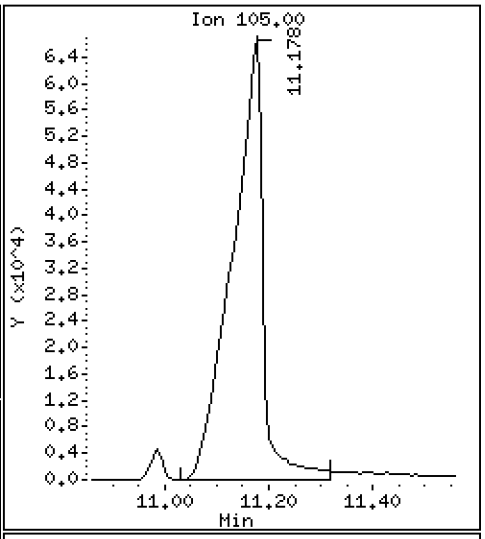
Column phase: ZB-5msi

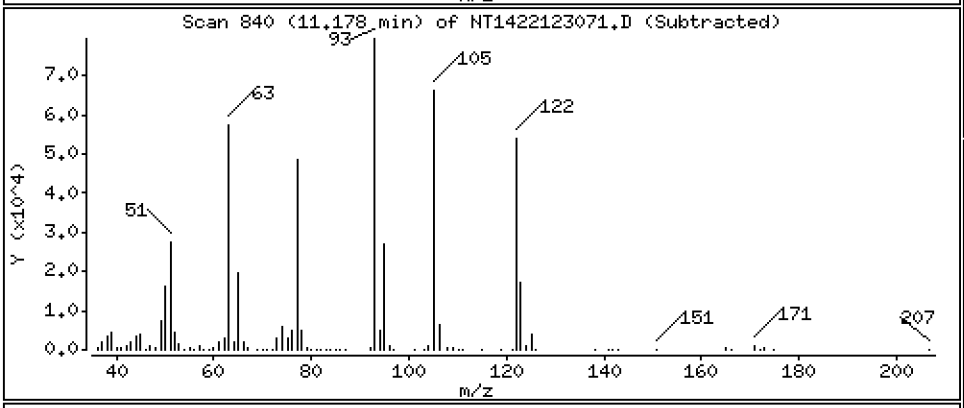
Column diameter: 0.25

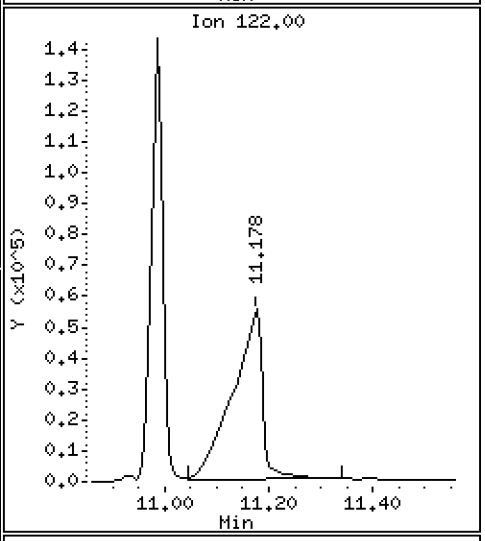
24 Benzoic acid

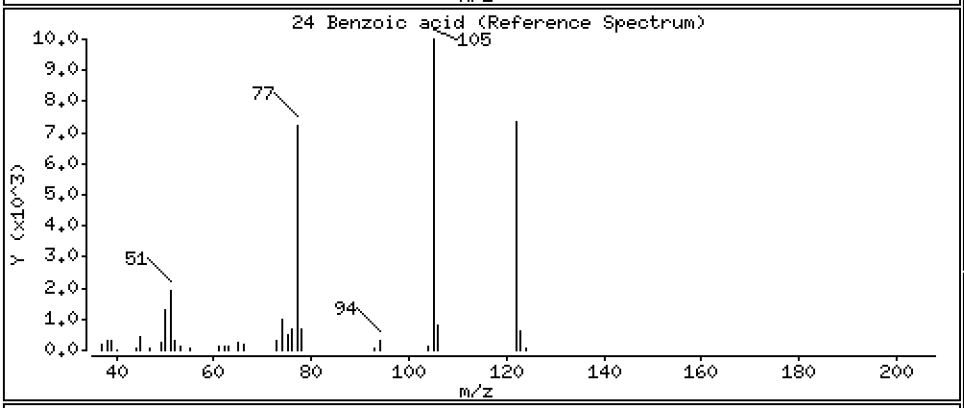
Concentration: 16.29 ug/mL

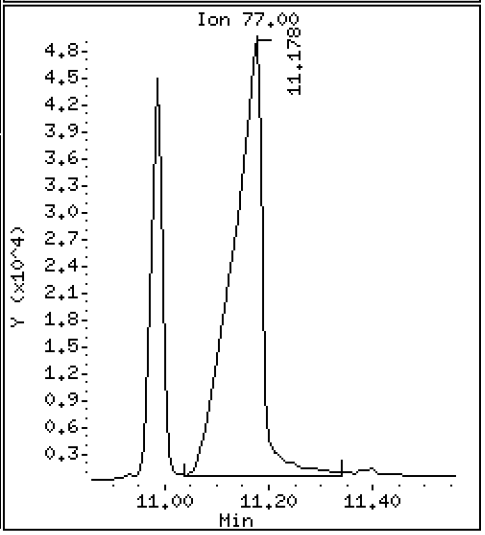


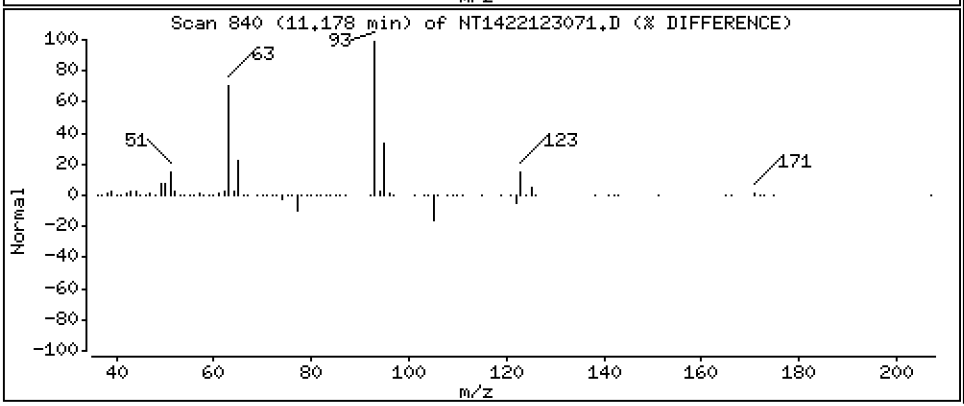












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

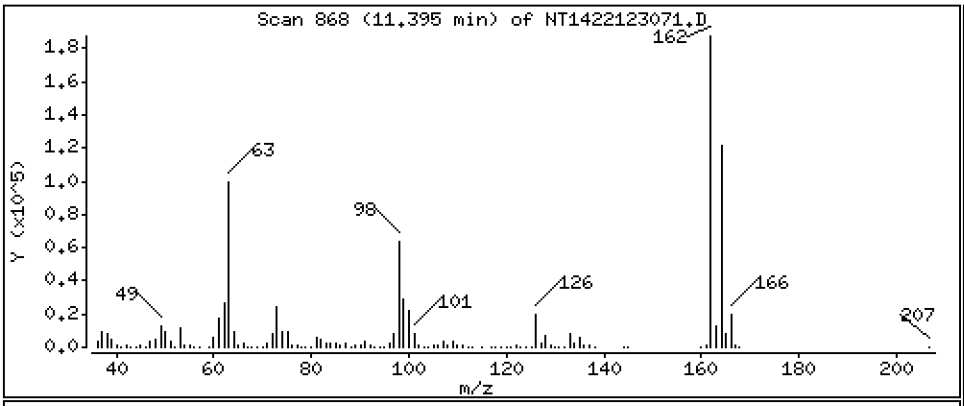
Operator: VTS

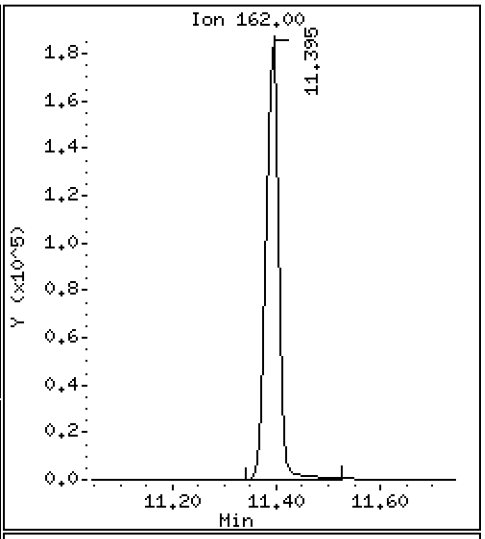
Column phase: ZB-5msi

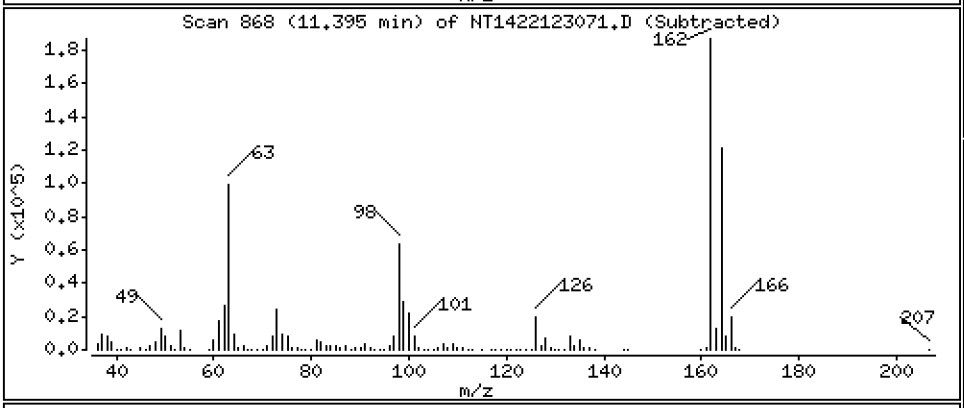
Column diameter: 0.25

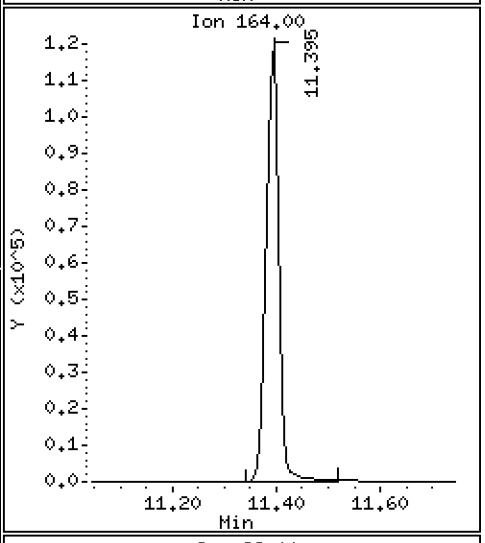
25 2,4-Dichlorophenol

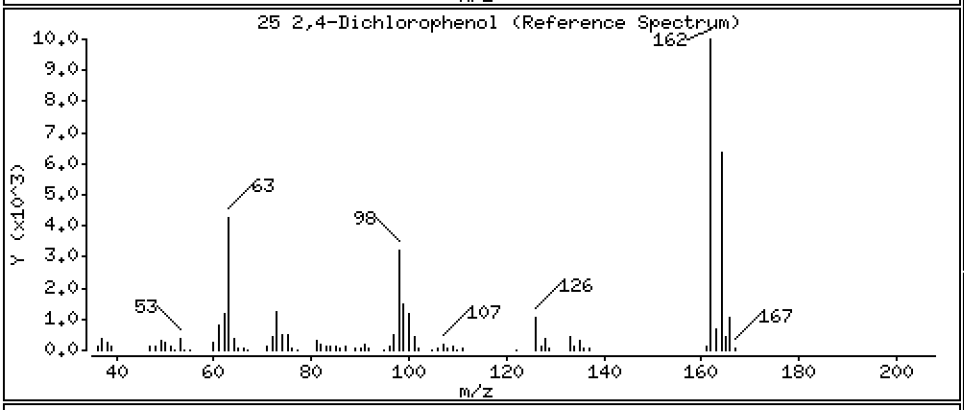
Concentration: 14.43 ug/mL

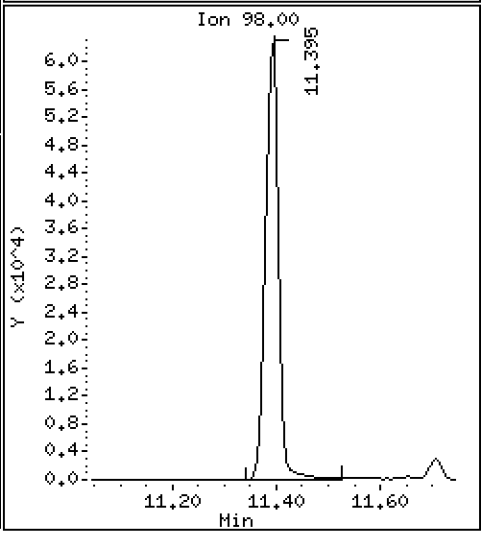


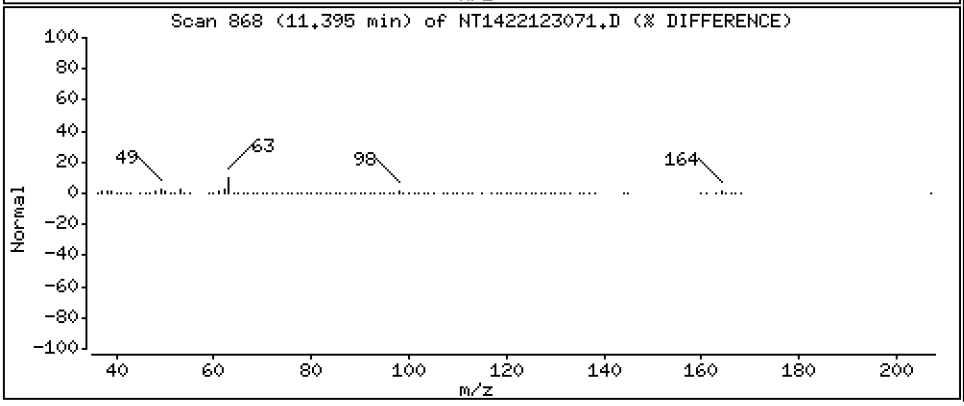












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

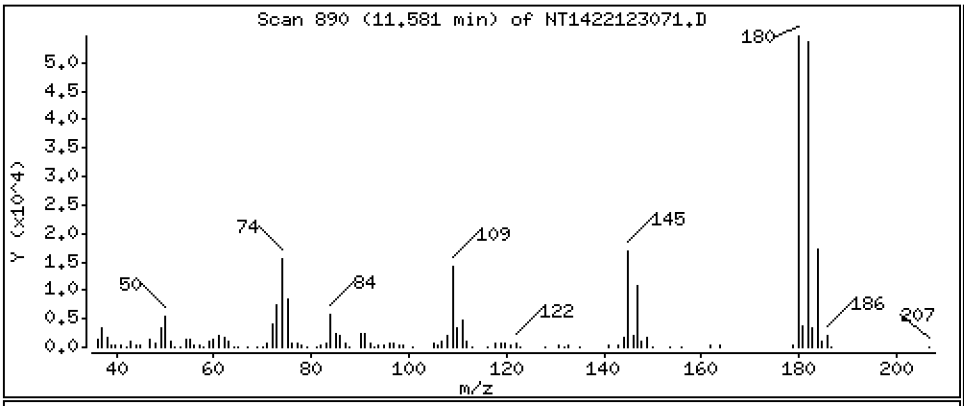
Operator: VTS

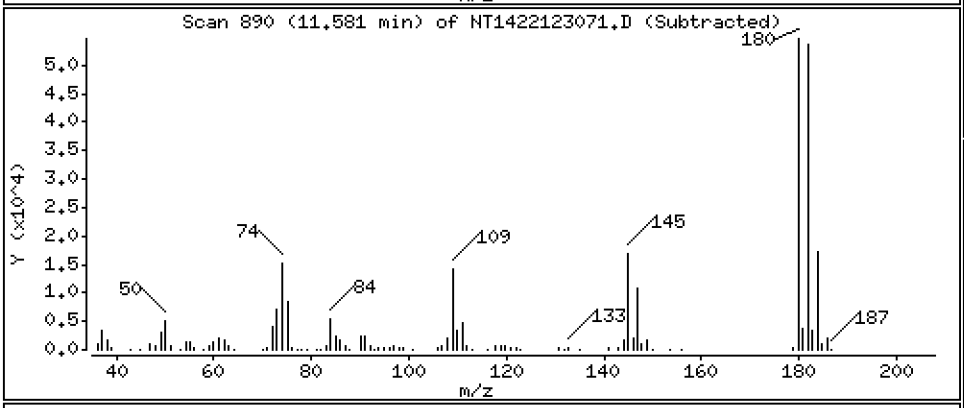
Column phase: ZB-5msi

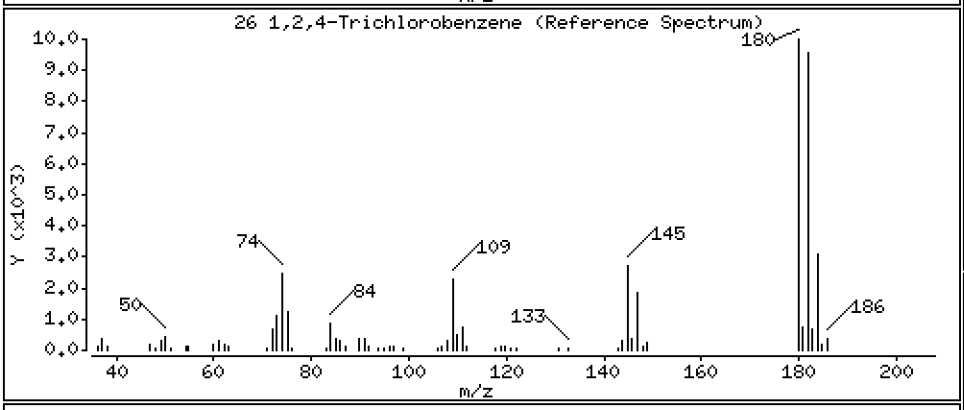
Column diameter: 0.25

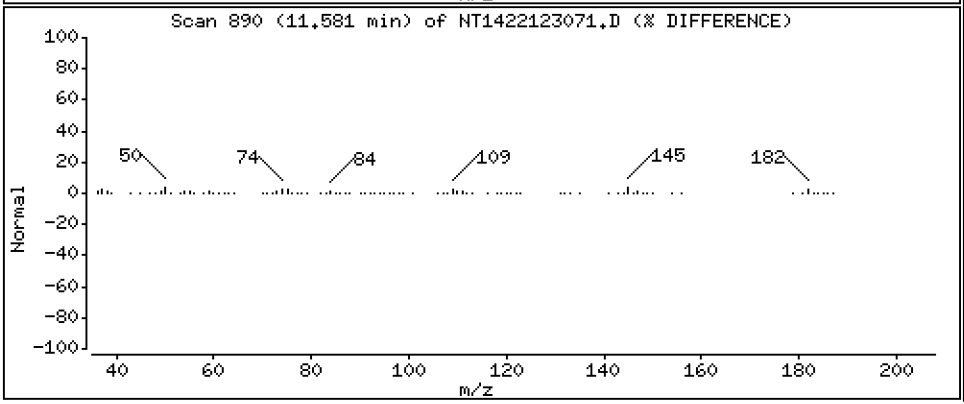
26 1,2,4-Trichlorobenzene

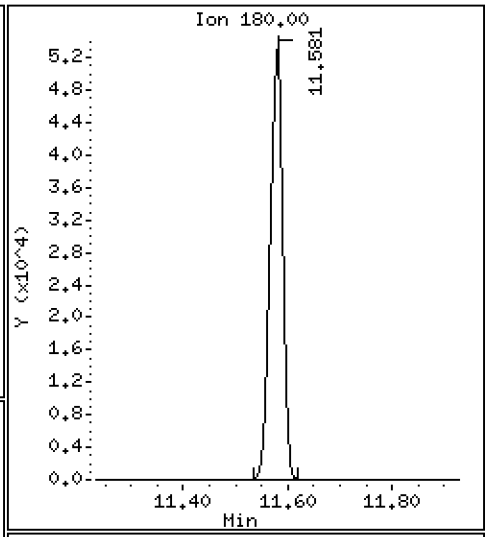
Concentration: 3.485 ug/mL

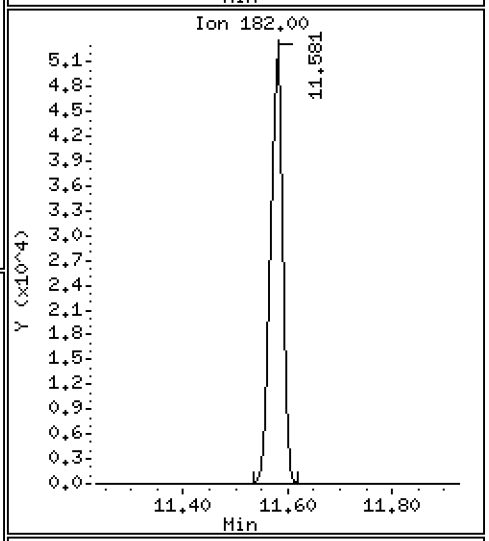


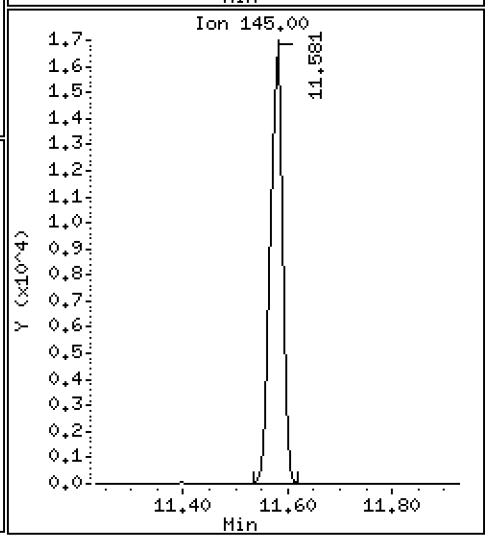












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

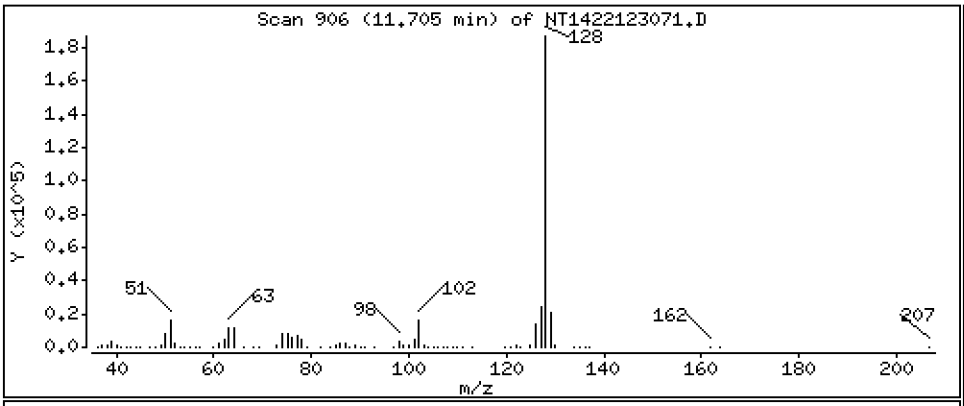
Operator: VTS

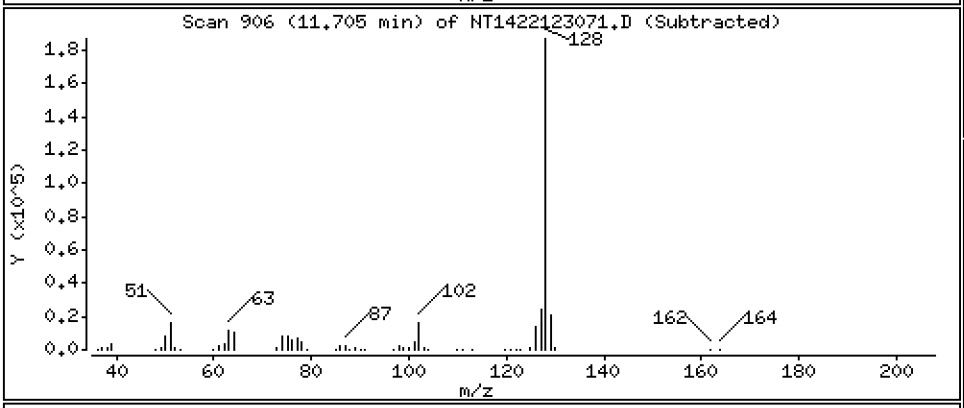
Column phase: ZB-5msi

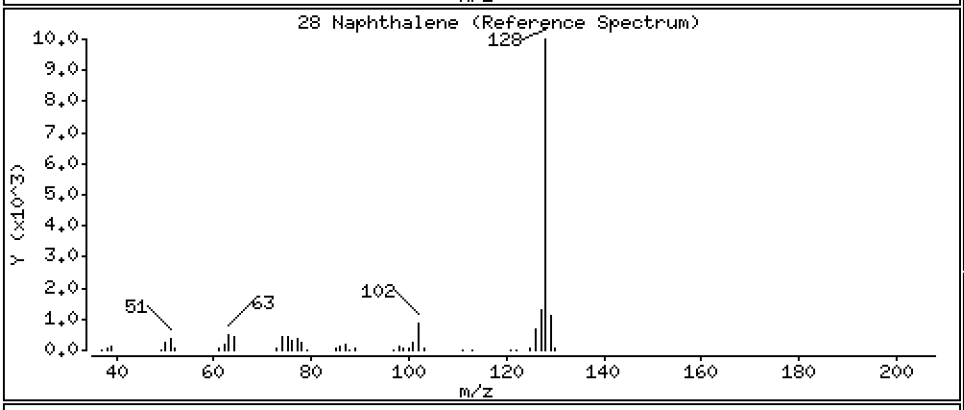
Column diameter: 0.25

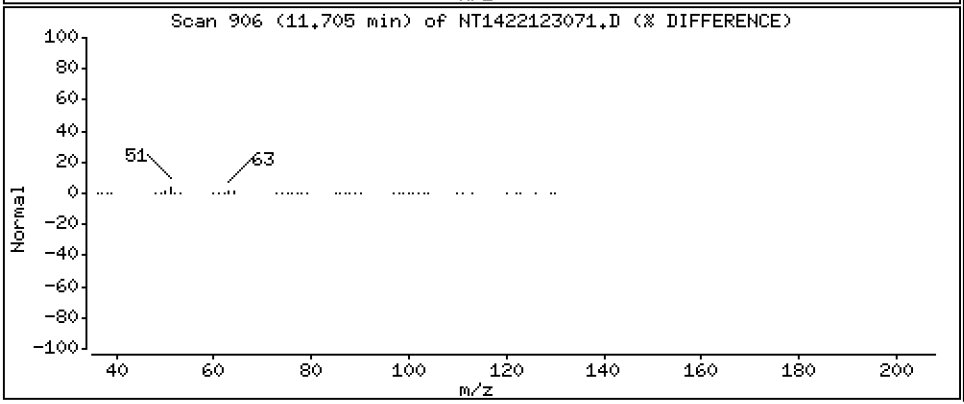
28 Naphthalene

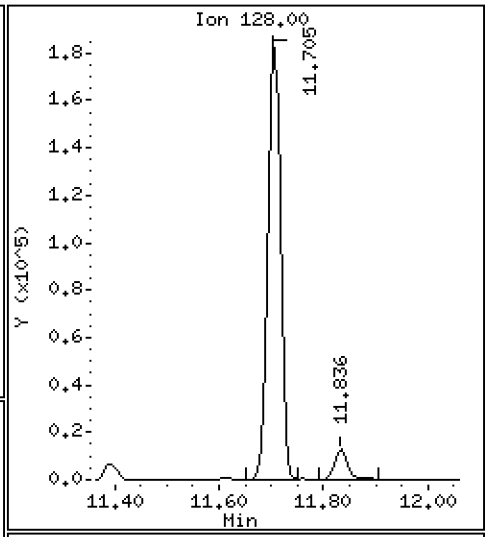
Concentration: 3.844 ug/mL

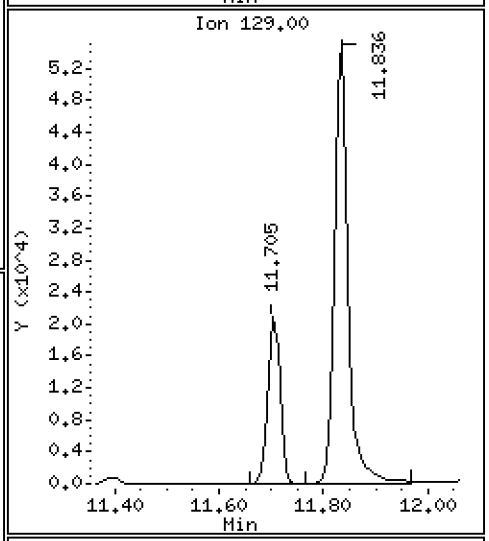


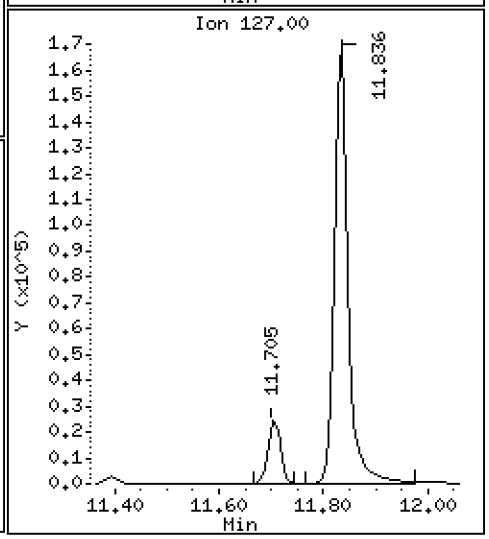












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

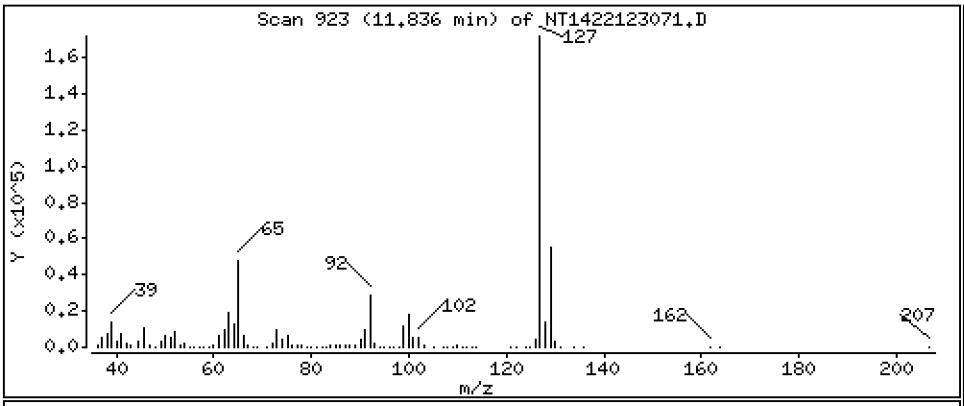
Operator: VTS

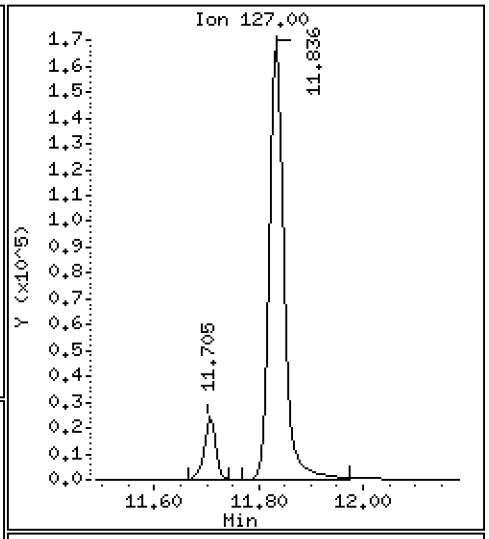
Column phase: ZB-5msi

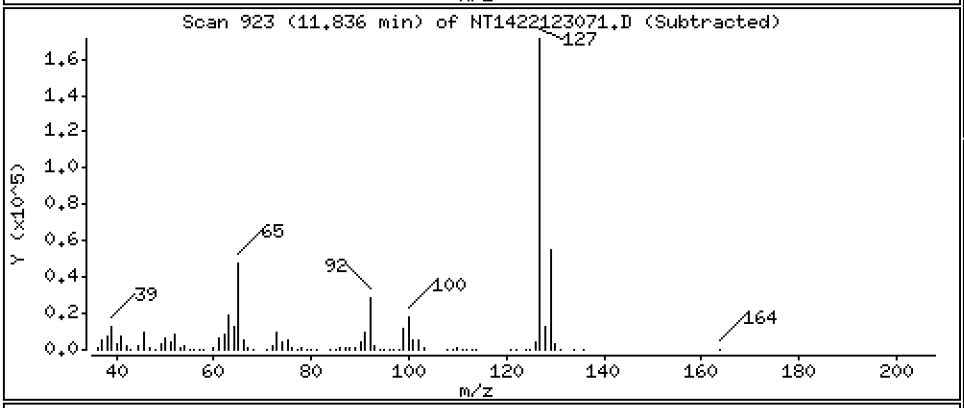
Column diameter: 0.25

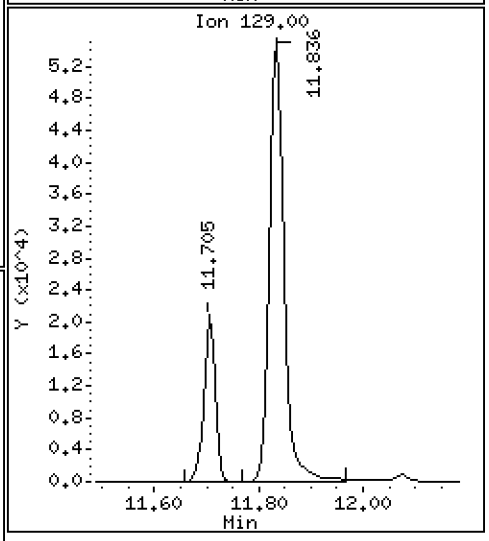
29 4-Chloroaniline

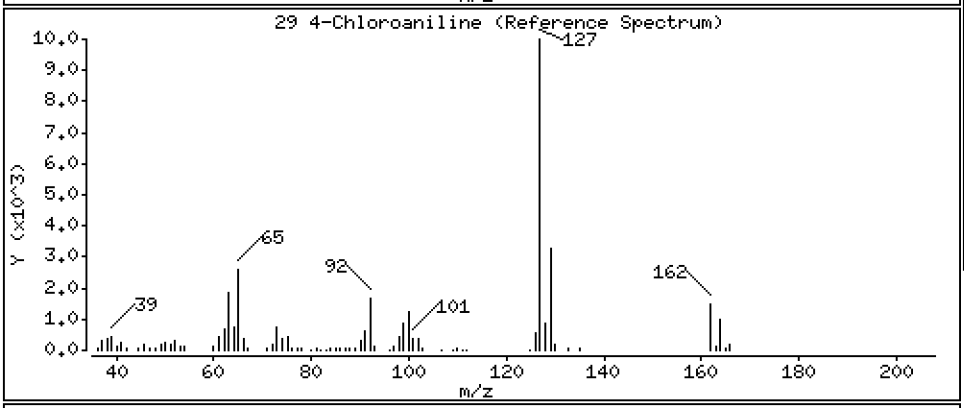
Concentration: 10.06 ug/mL

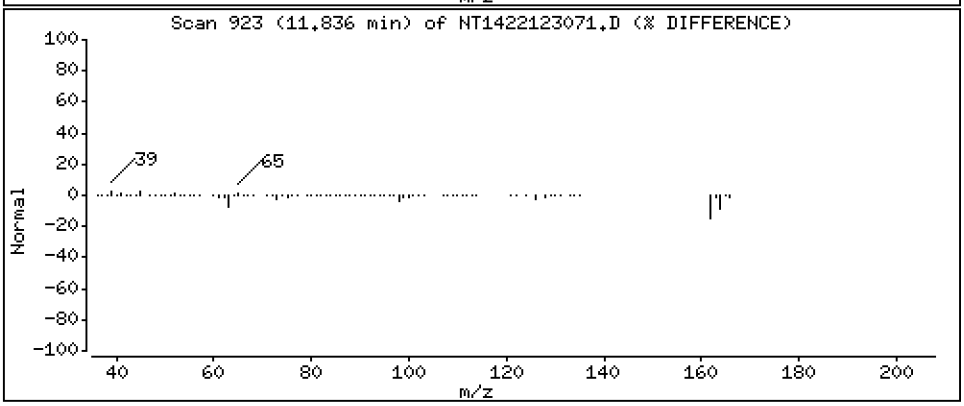












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

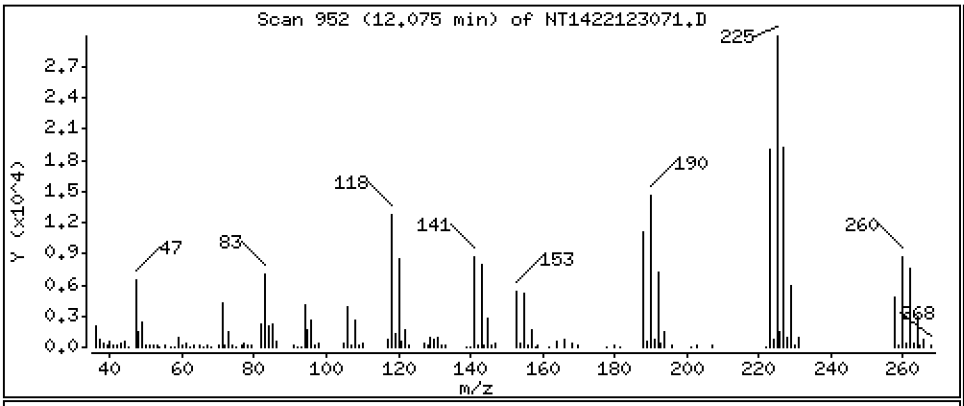
Operator: VTS

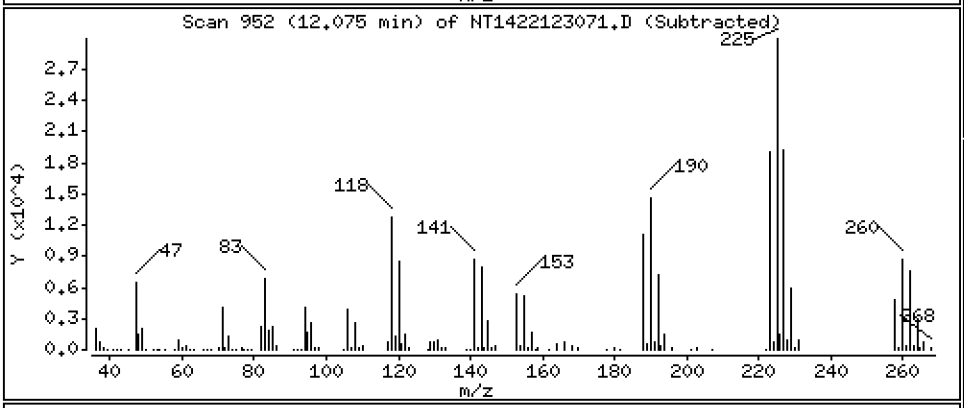
Column phase: ZB-5msi

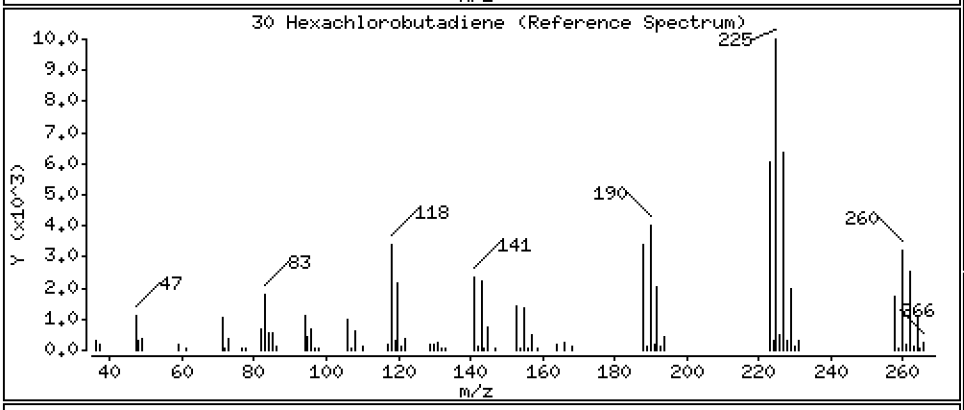
Column diameter: 0.25

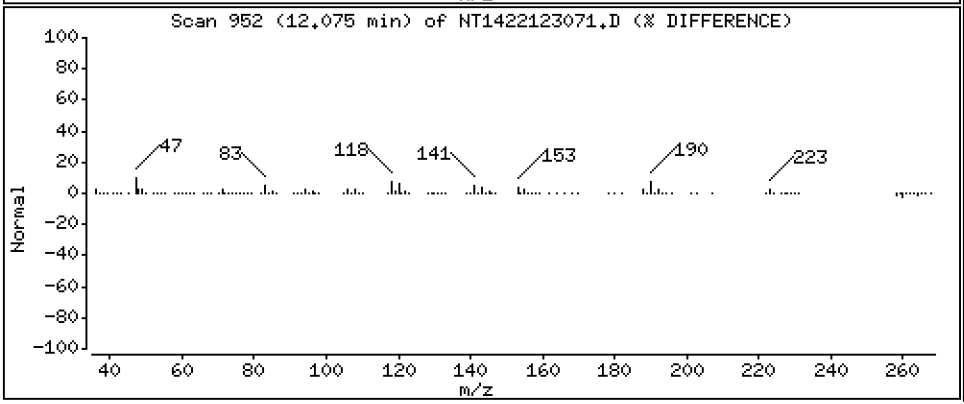
30 Hexachlorobutadiene

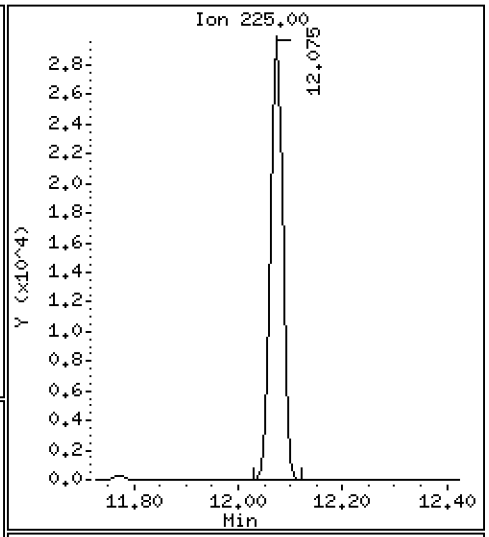
Concentration: 3.753 ug/mL

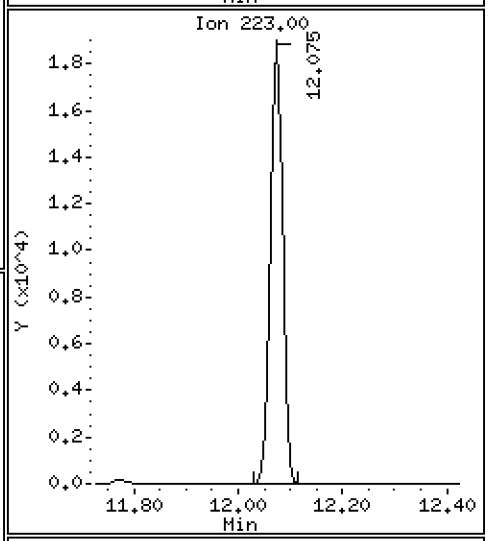


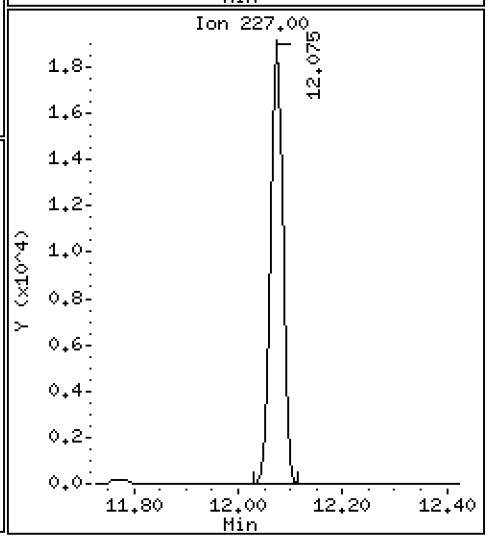












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

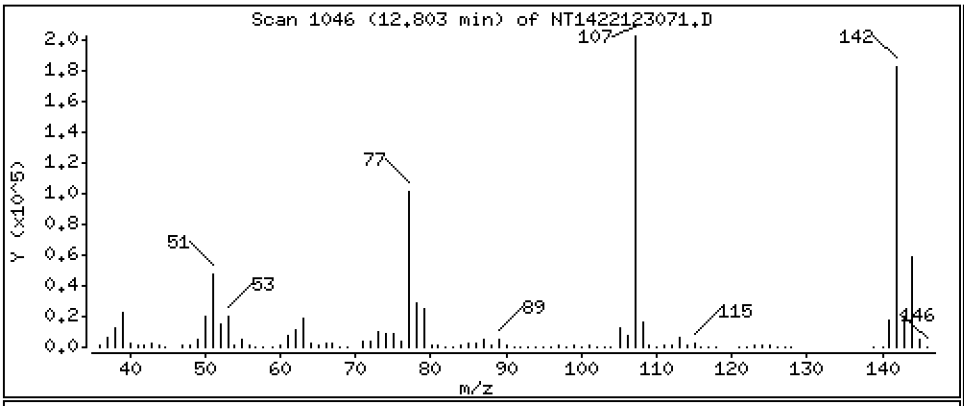
Operator: VTS

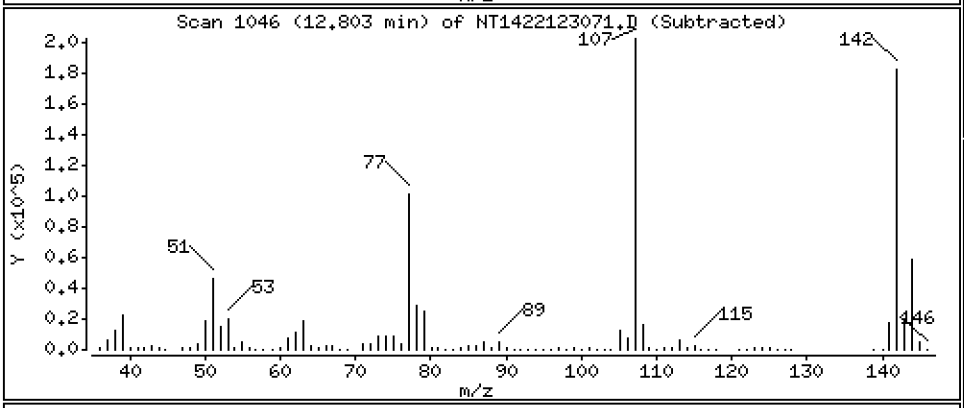
Column phase: ZB-5msi

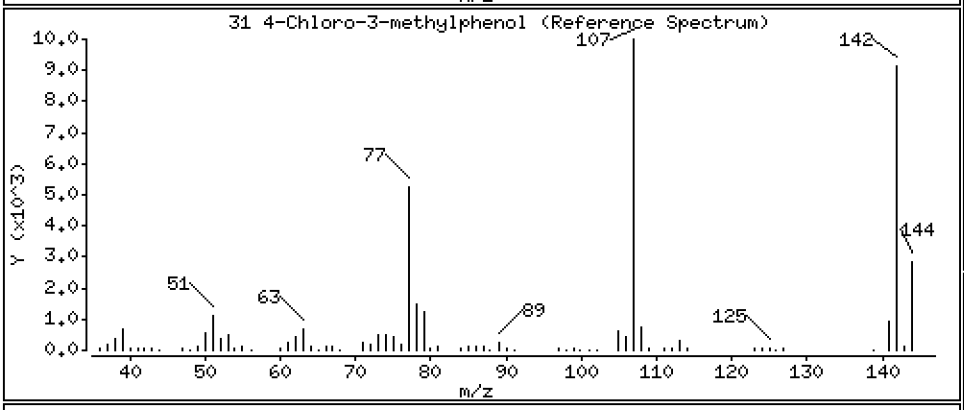
Column diameter: 0.25

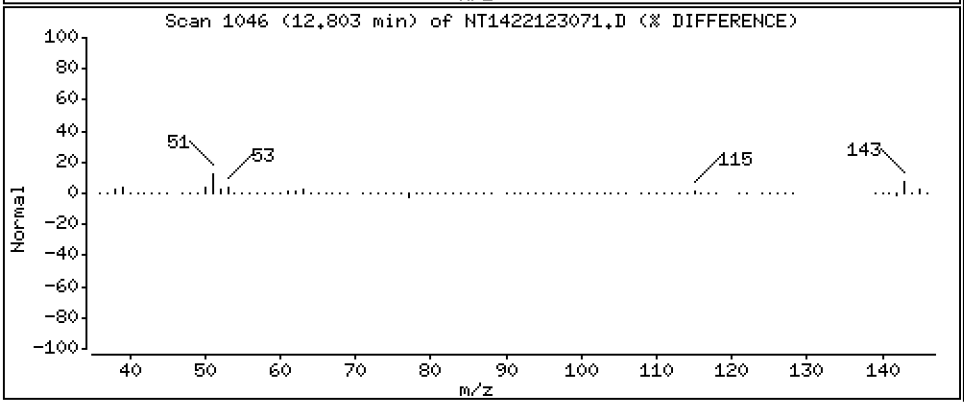
31 4-Chloro-3-methylphenol

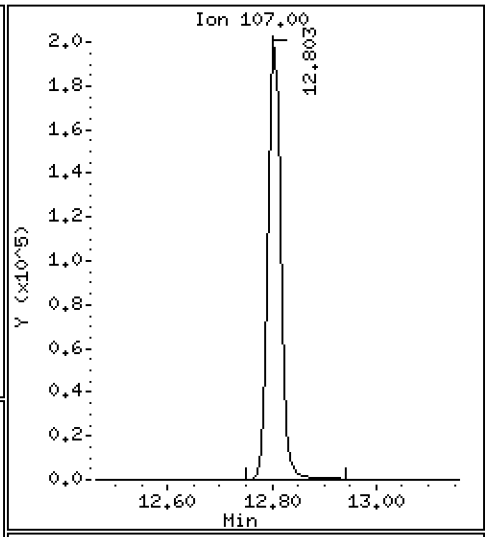
Concentration: 15.17 ug/mL

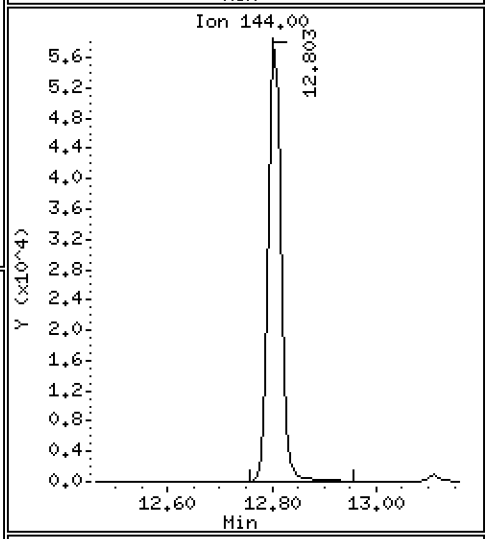


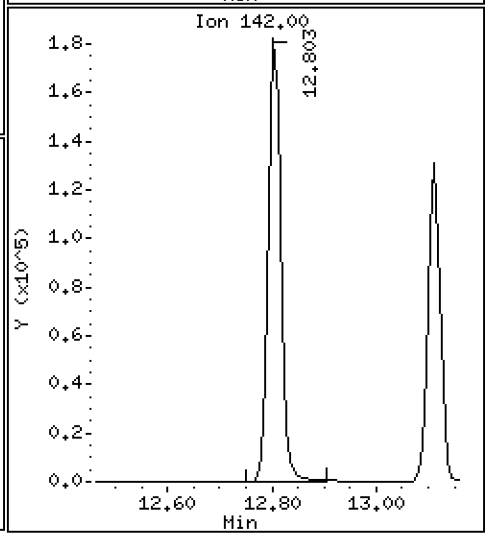












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123071.D

Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

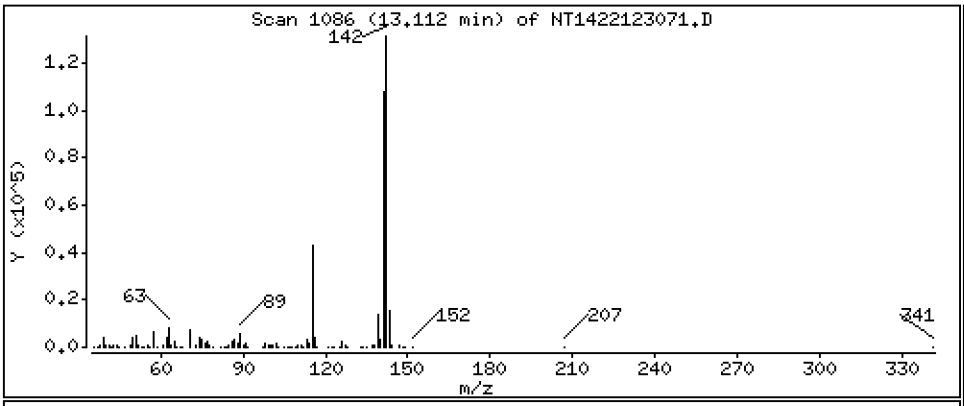
Operator: VTS

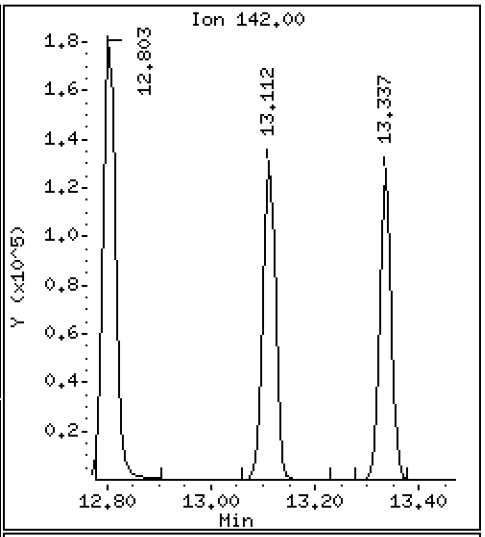
Column phase: ZB-5msi

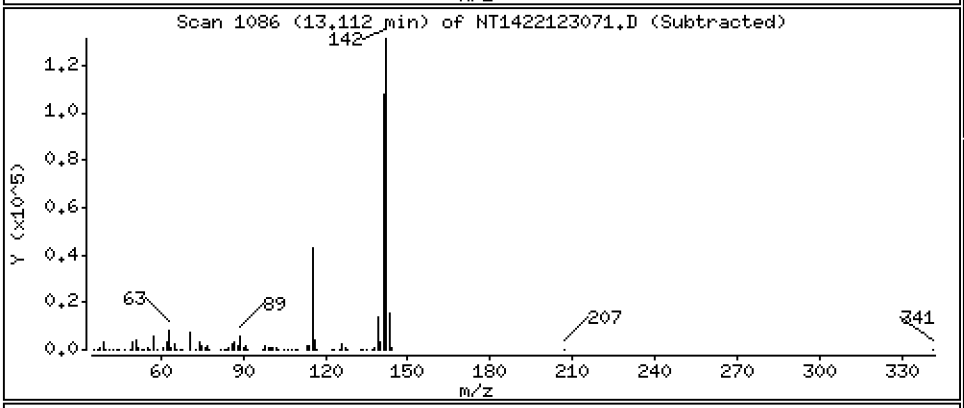
Column diameter: 0.25

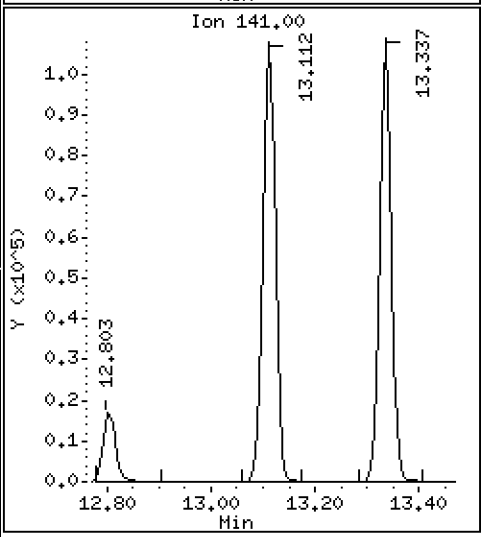
32 2-Methylnaphthalene

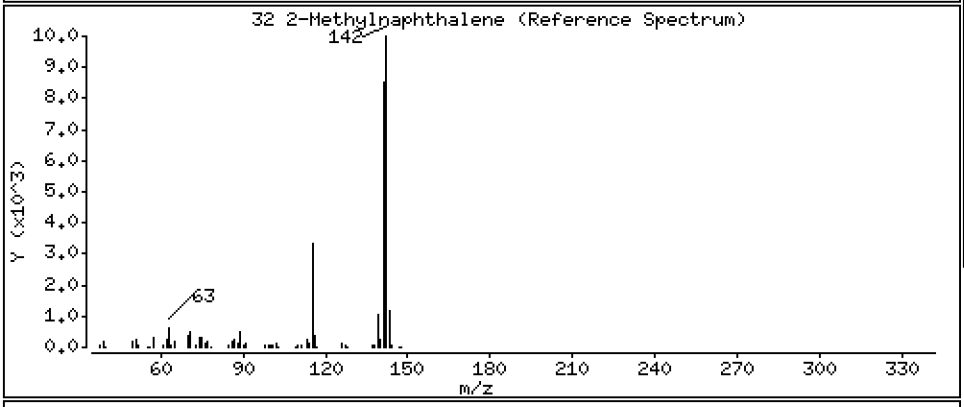
Concentration: 3.734 ug/mL

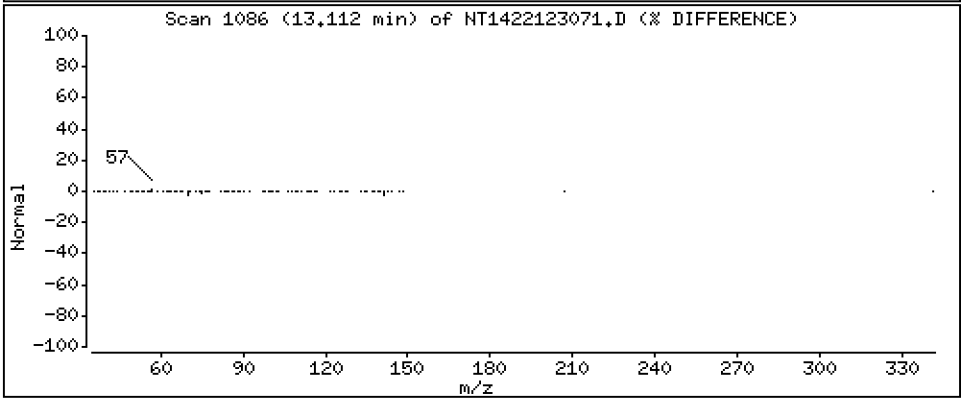












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123071.D

Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

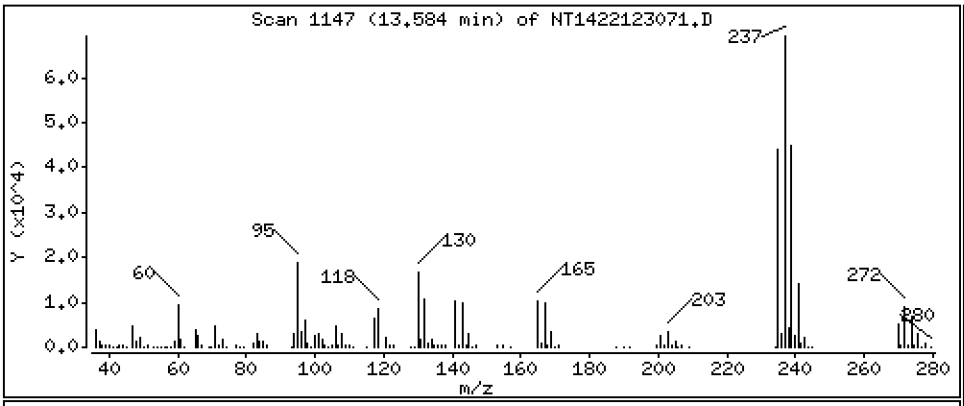
Operator: VTS

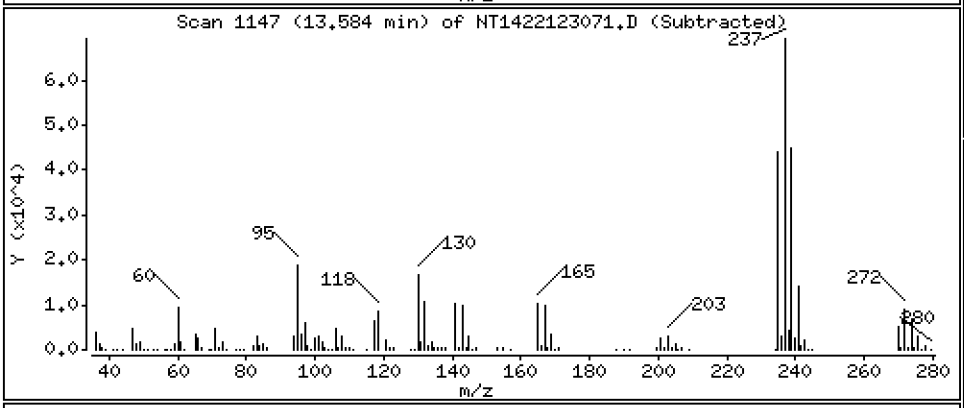
Column phase: ZB-5msi

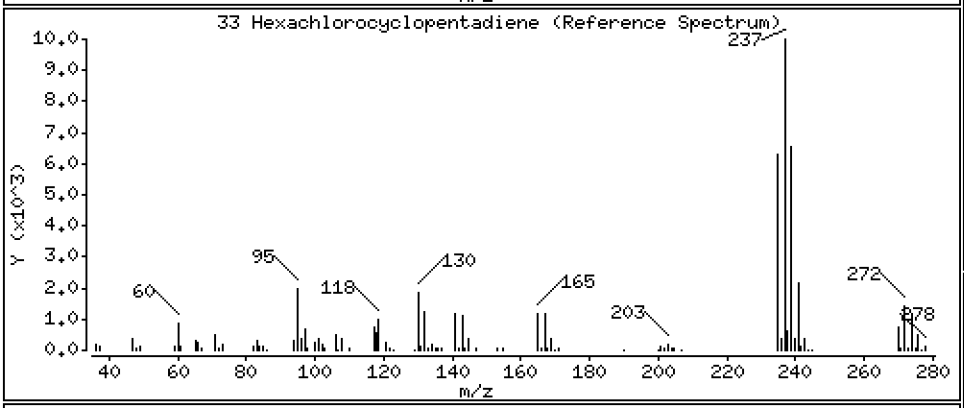
Column diameter: 0.25

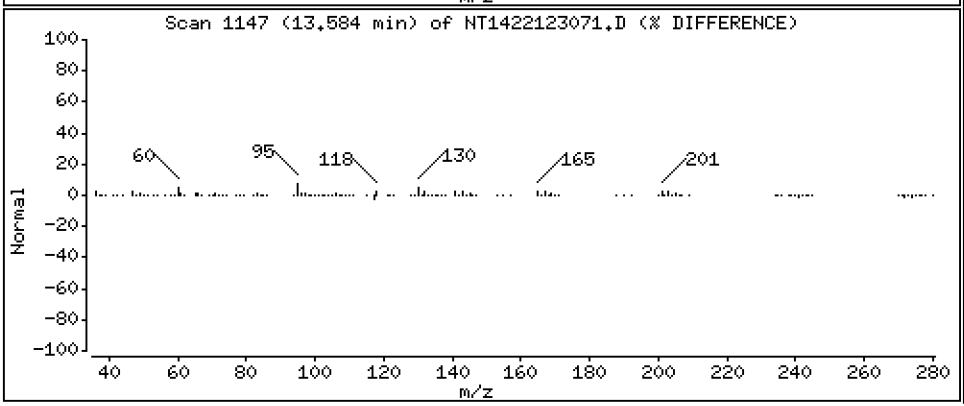
33 Hexachlorocyclopentadiene

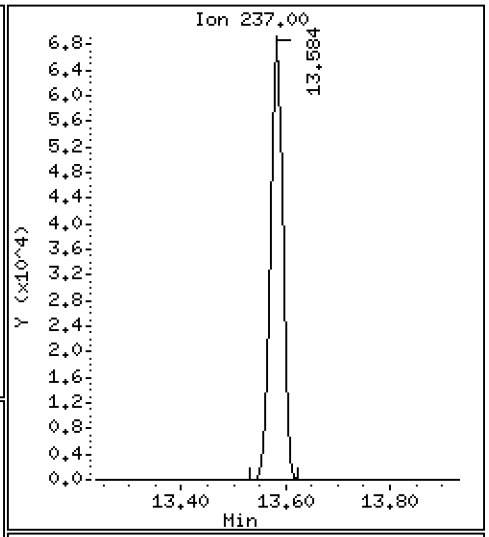
Concentration: 8.845 ug/mL

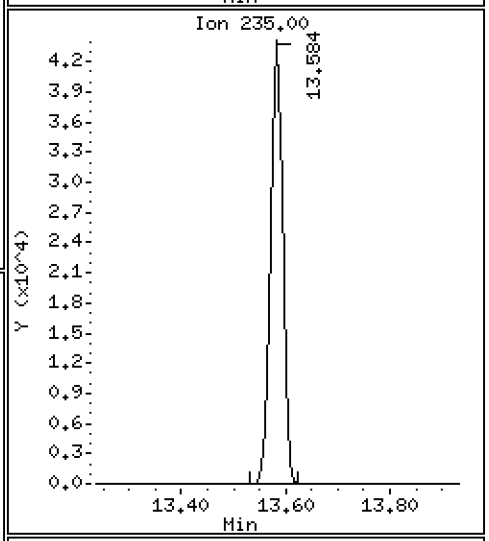


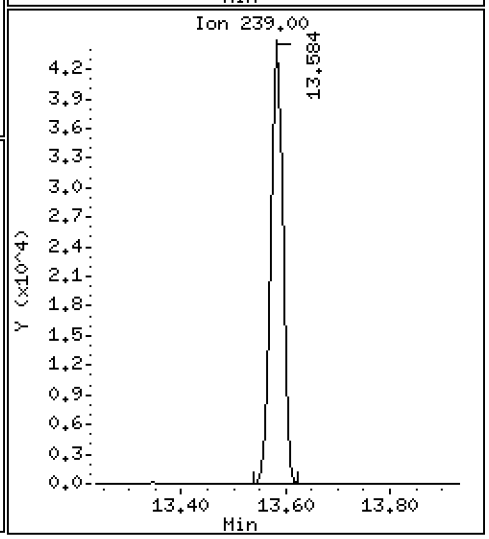












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123071.D

Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

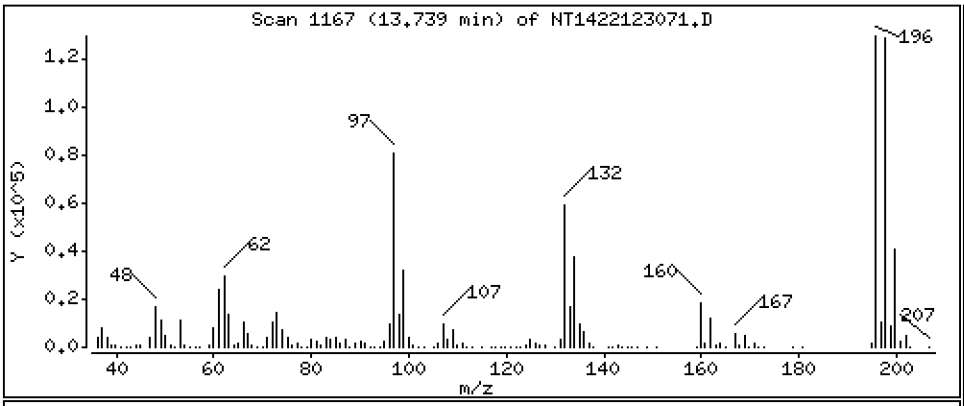
Operator: VTS

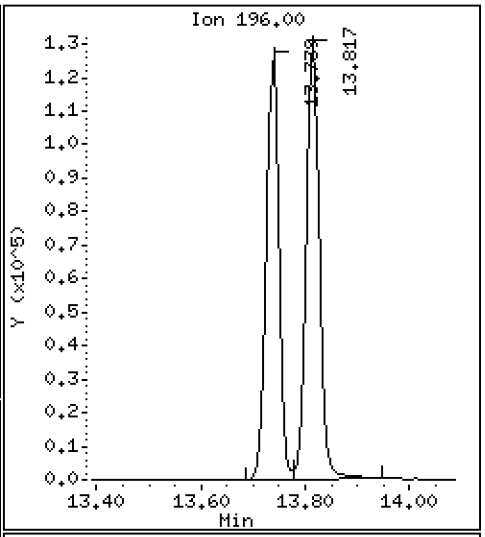
Column phase: ZB-5msi

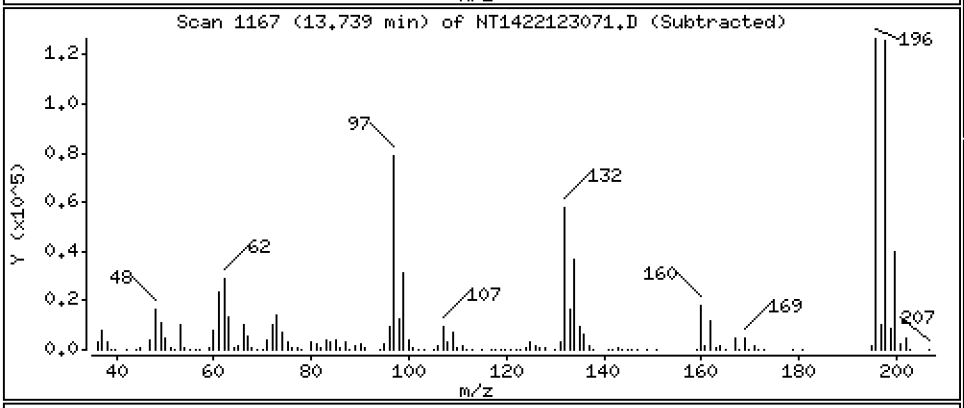
Column diameter: 0.25

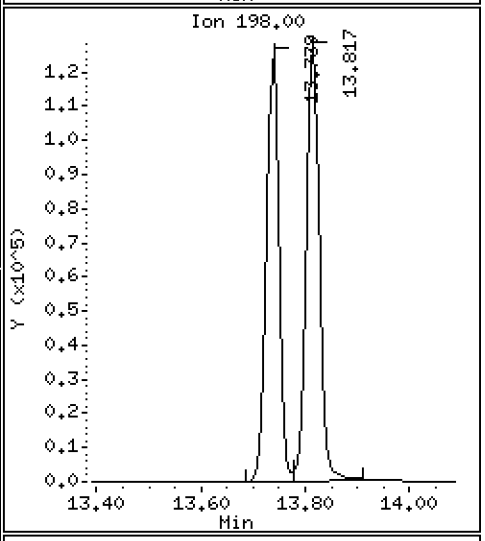
34 2,4,6-Trichlorophenol

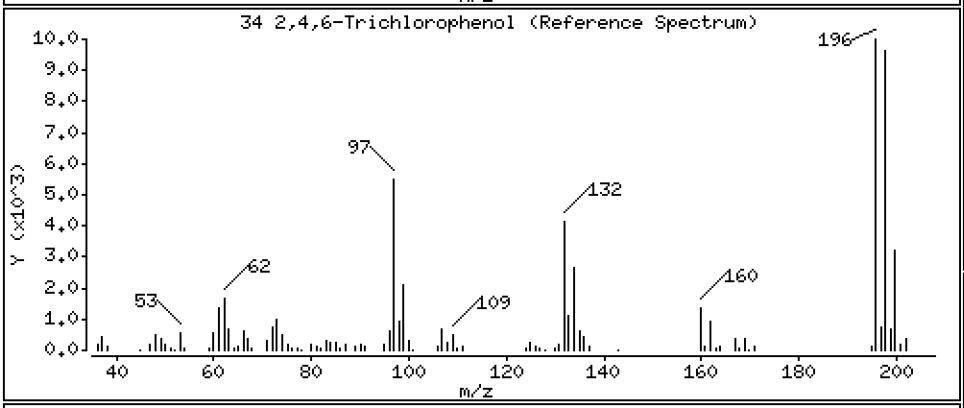
Concentration: 15.21 ug/mL

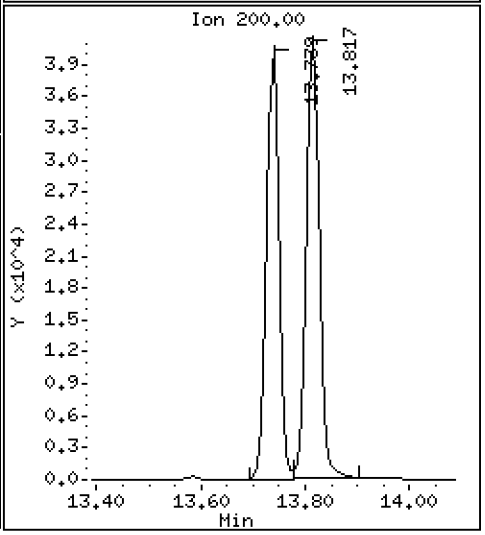


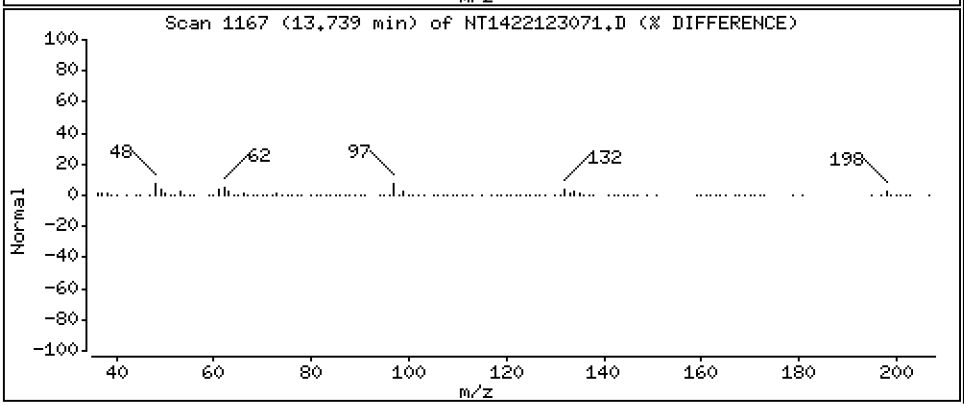












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123071.D

Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

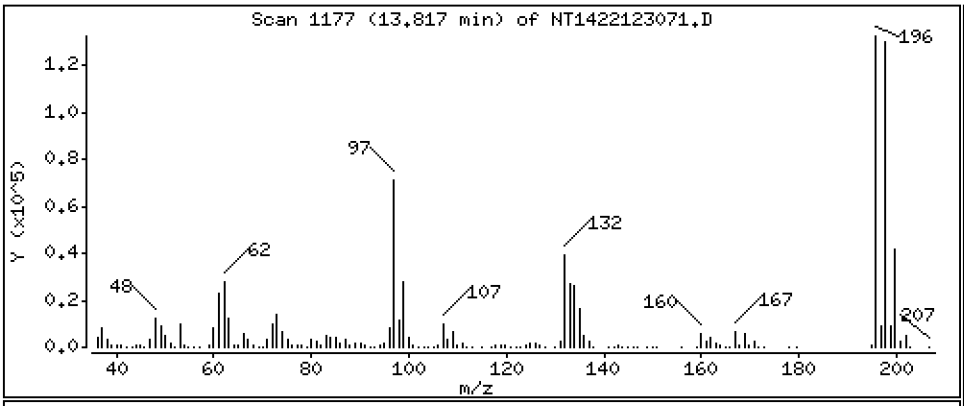
Operator: VTS

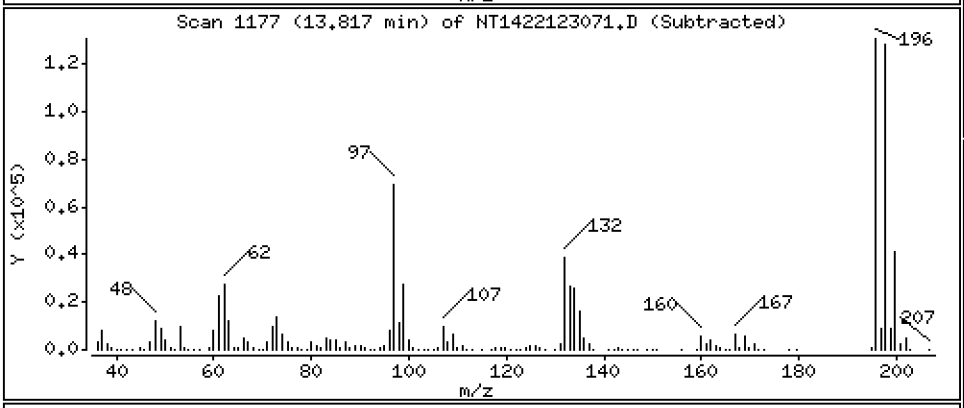
Column phase: ZB-5msi

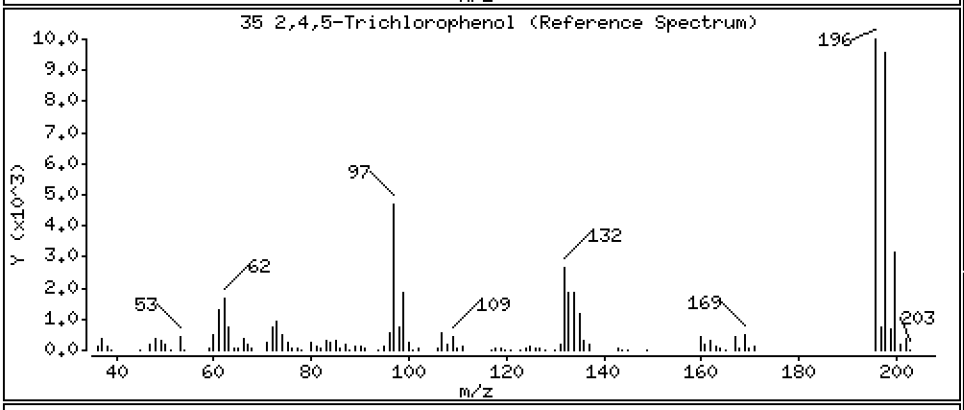
Column diameter: 0.25

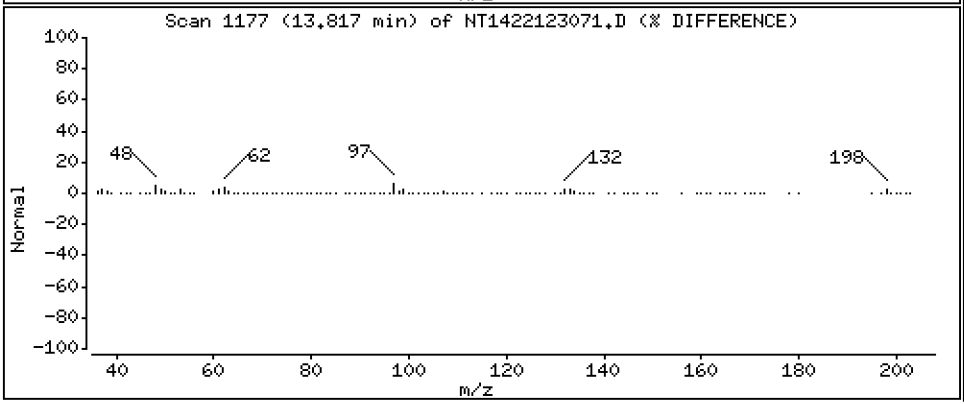
35 2,4,5-Trichlorophenol

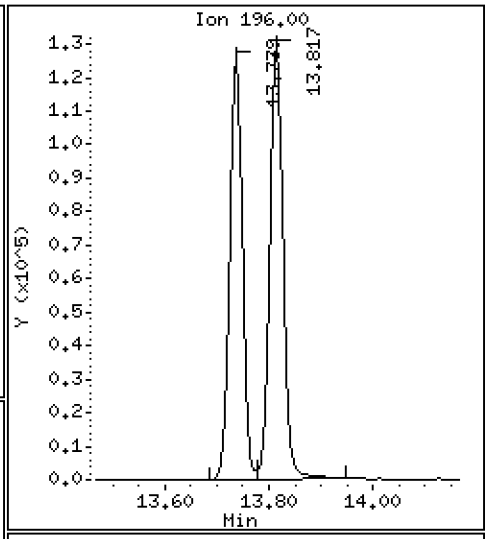
Concentration: 14.27 ug/mL

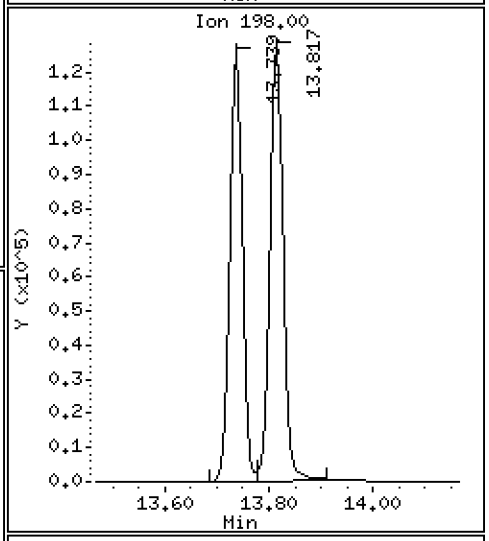


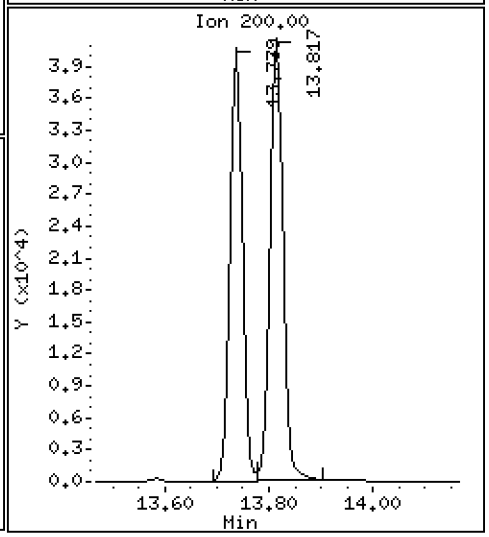












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

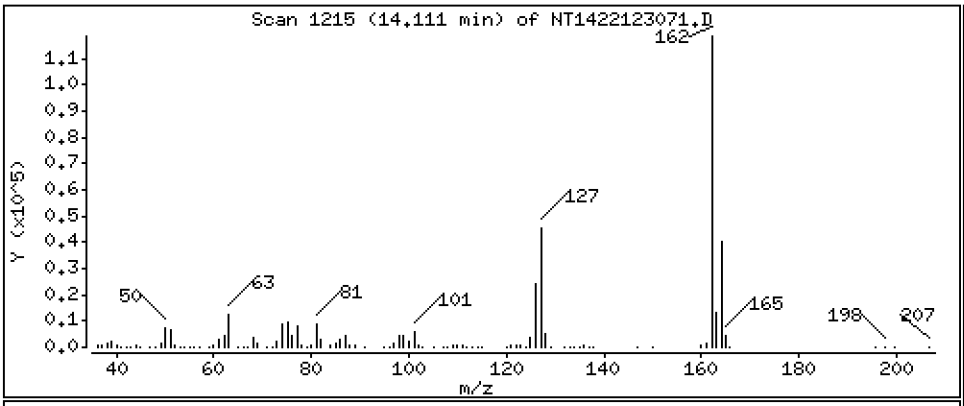
Operator: VTS

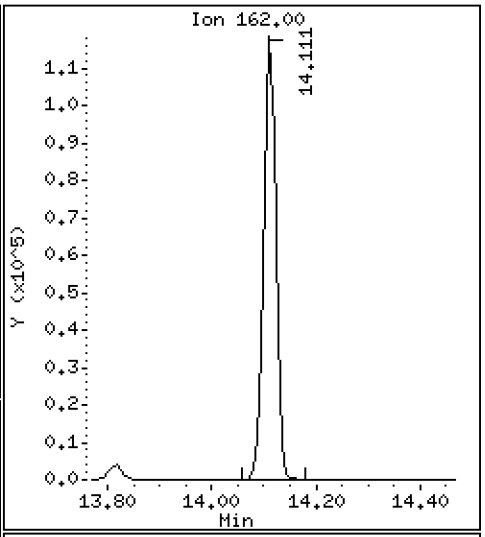
Column phase: ZB-5msi

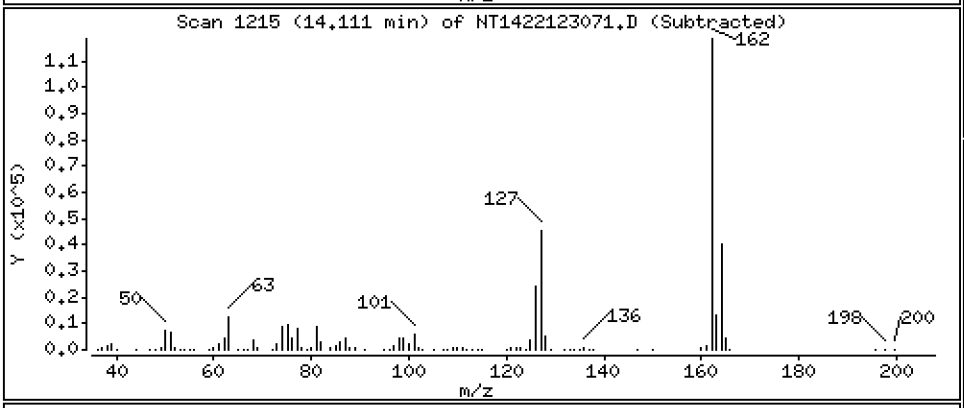
Column diameter: 0.25

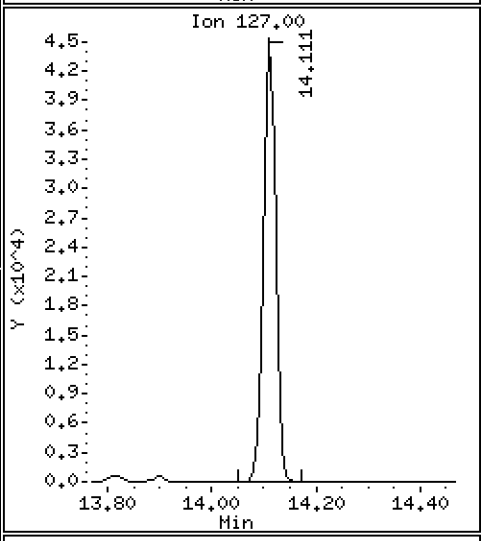
37 2-Chloronaphthalene

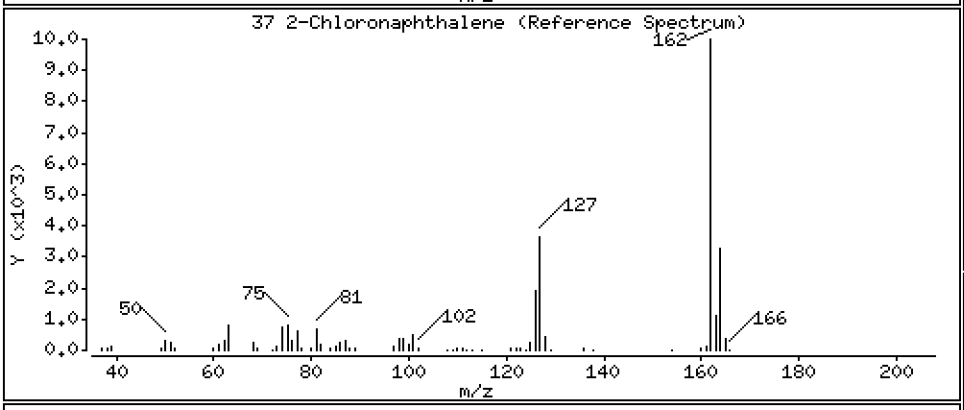
Concentration: 3.976 ug/mL

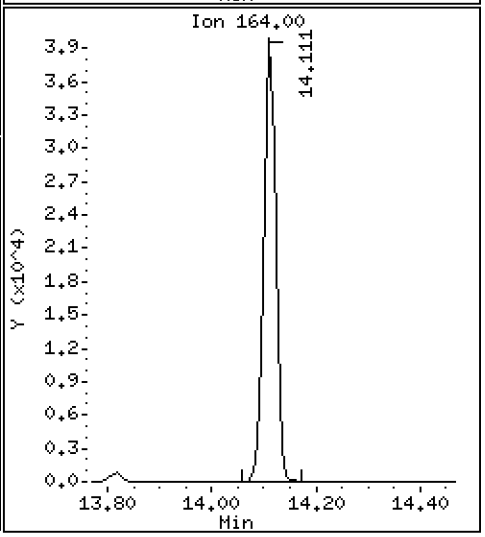


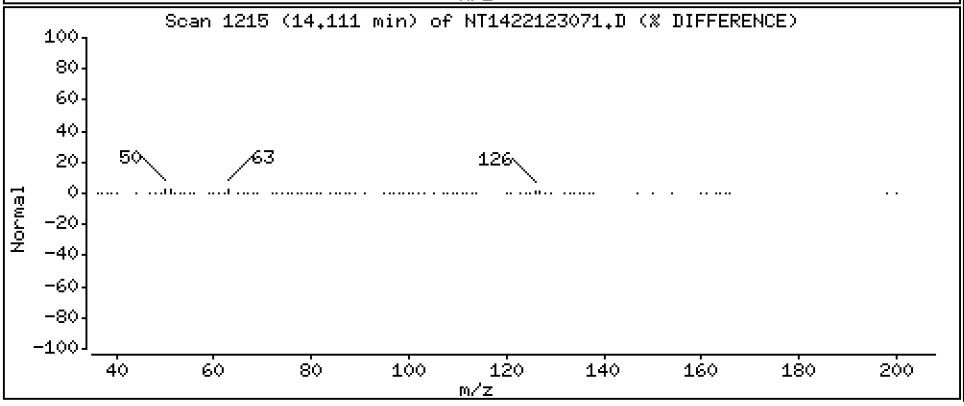












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

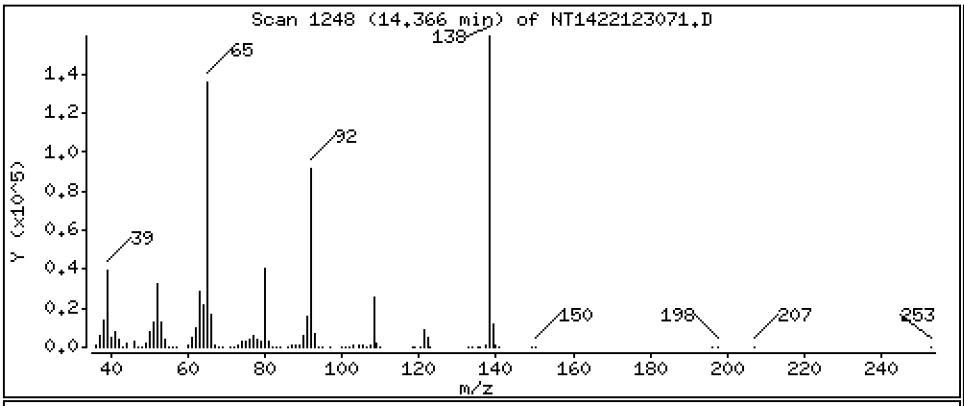
Operator: VTS

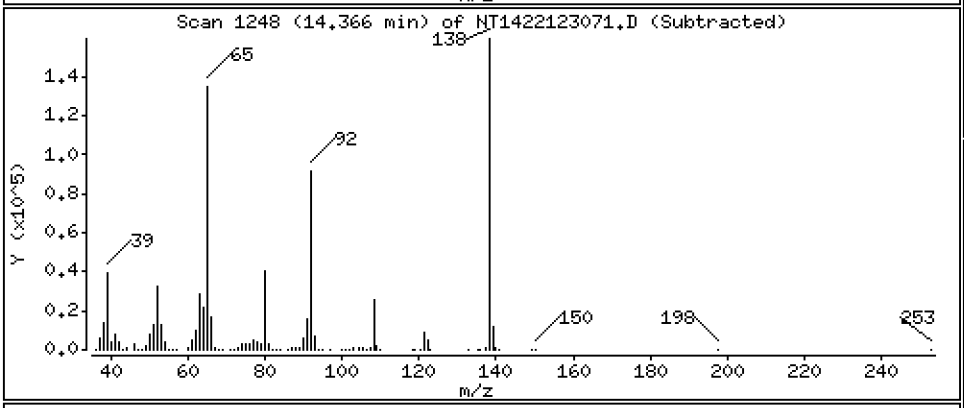
Column phase: ZB-5msi

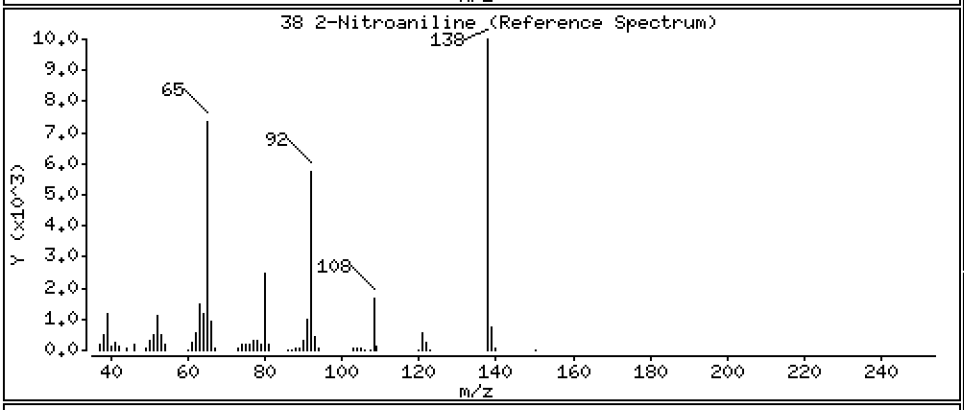
Column diameter: 0.25

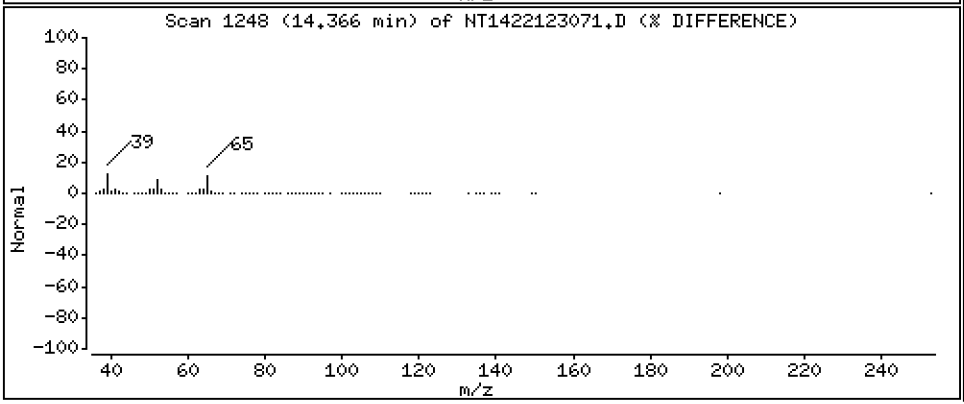
38 2-Nitroaniline

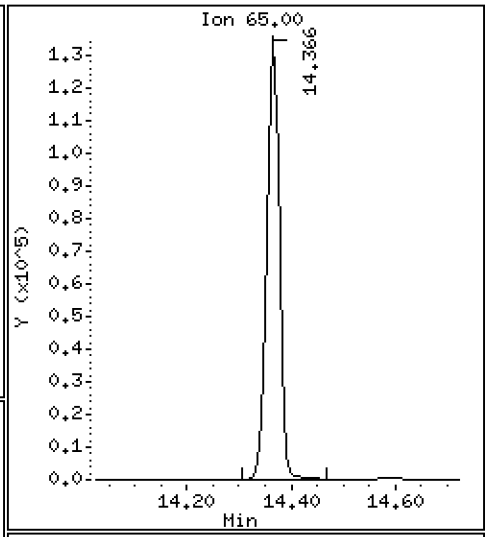
Concentration: 17.85 ug/mL

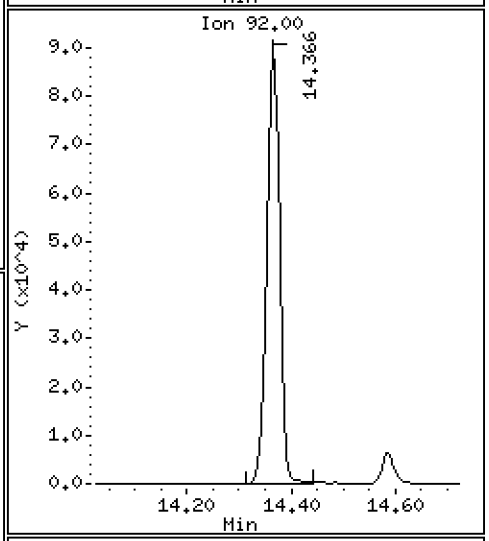


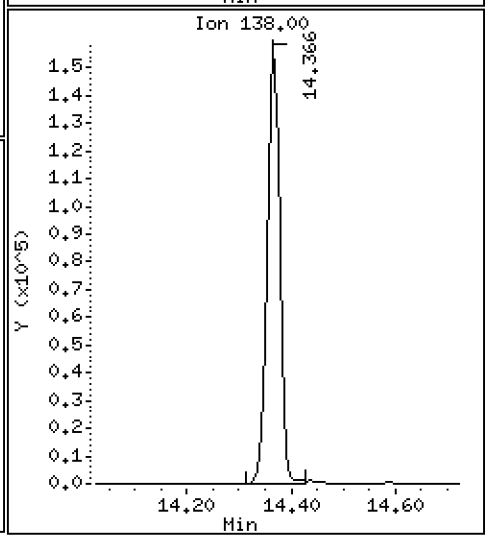












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

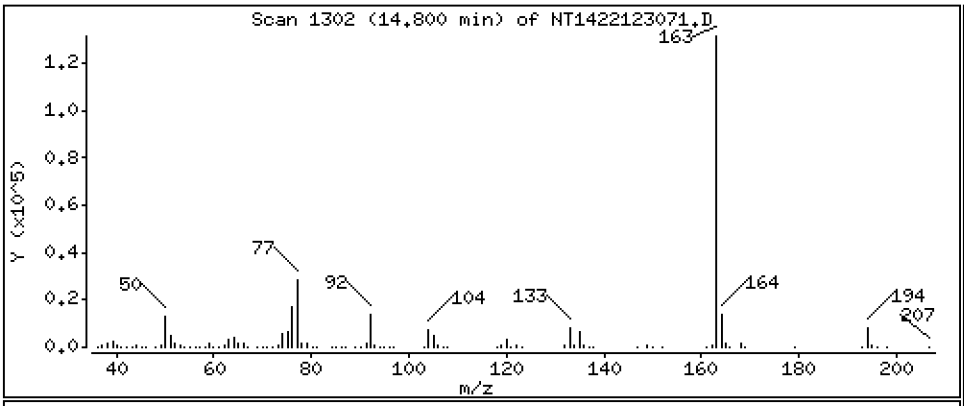
Operator: VTS

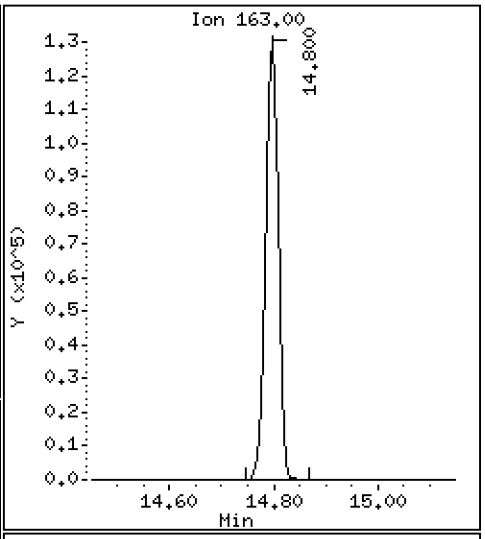
Column phase: ZB-5msi

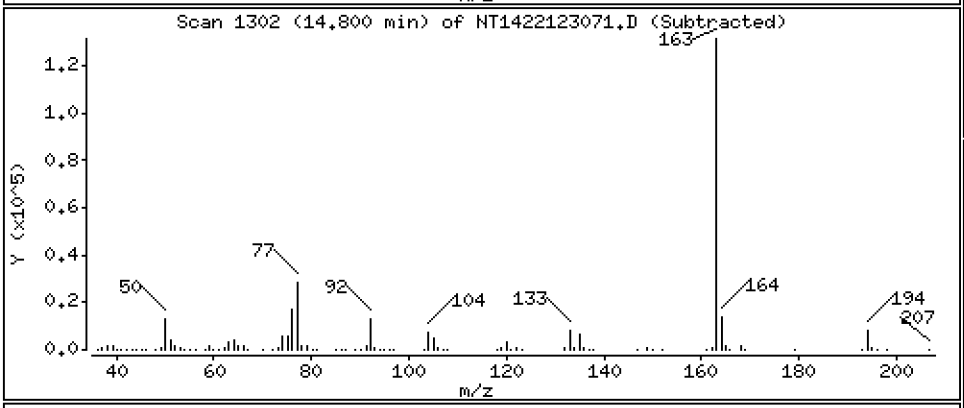
Column diameter: 0.25

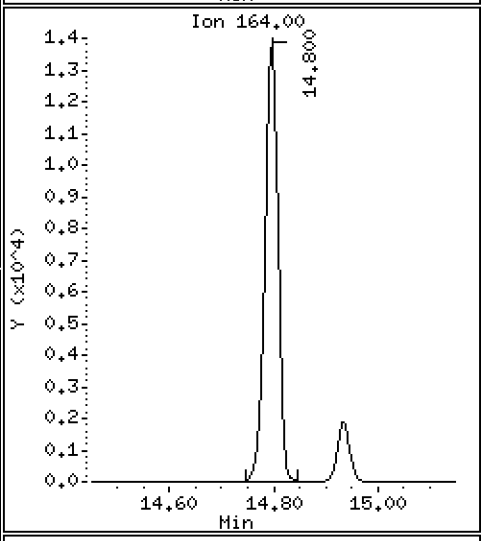
39 Dimethylphthalate

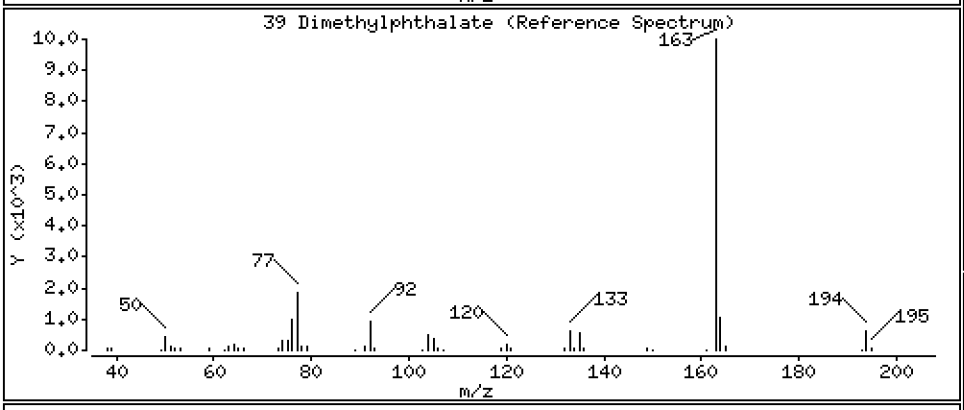
Concentration: 4.685 ug/mL

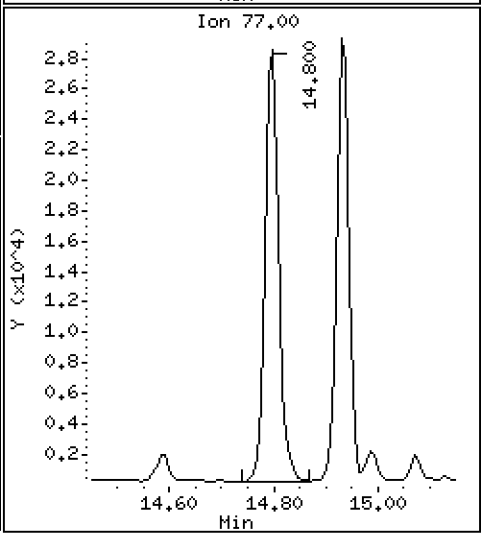


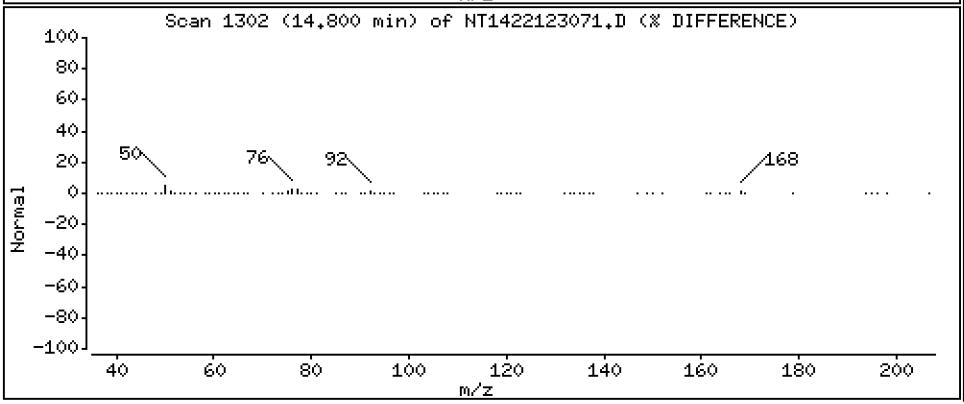












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

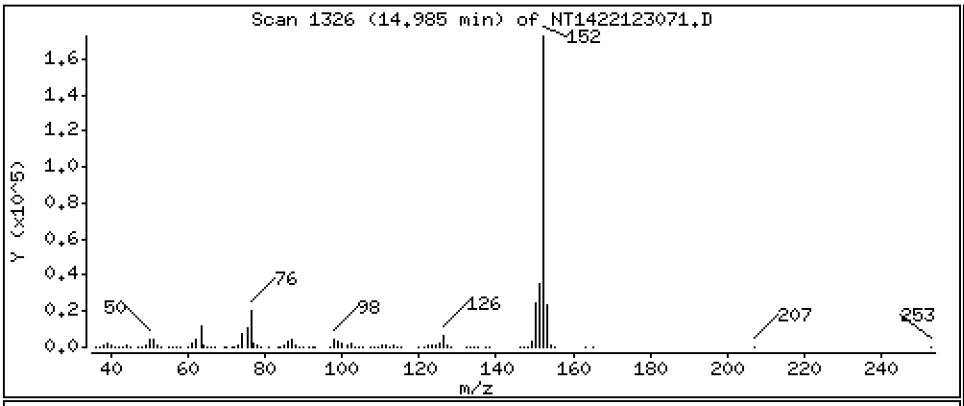
Operator: VTS

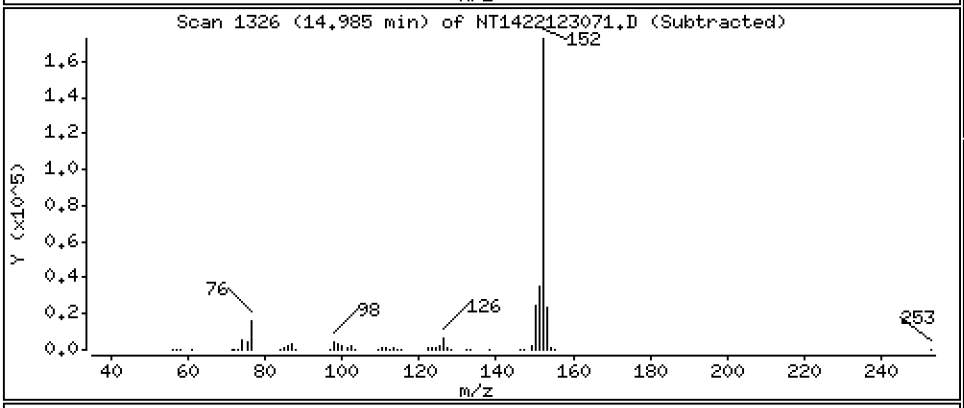
Column phase: ZB-5msi

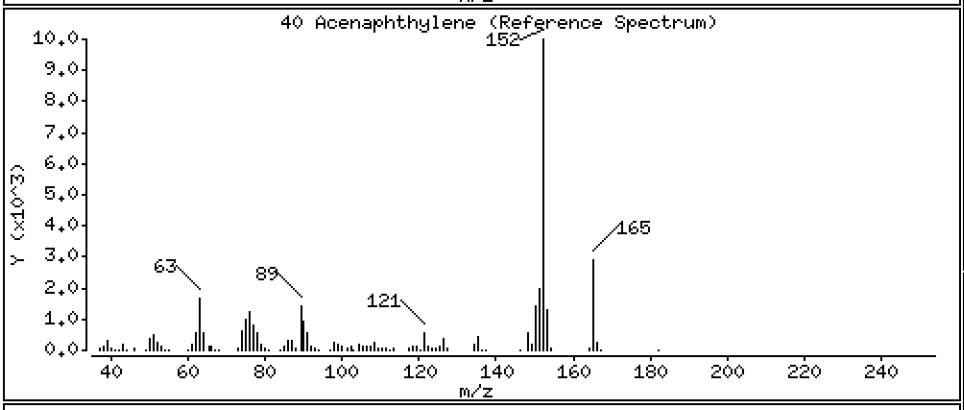
Column diameter: 0.25

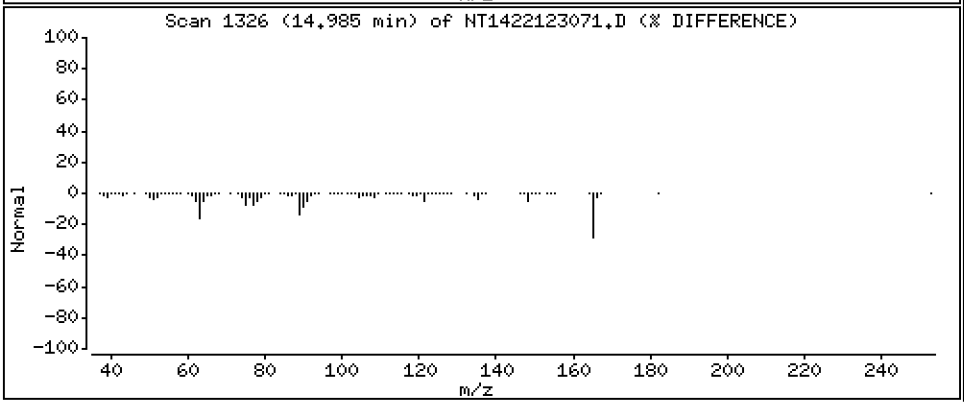
40 Acenaphthylene

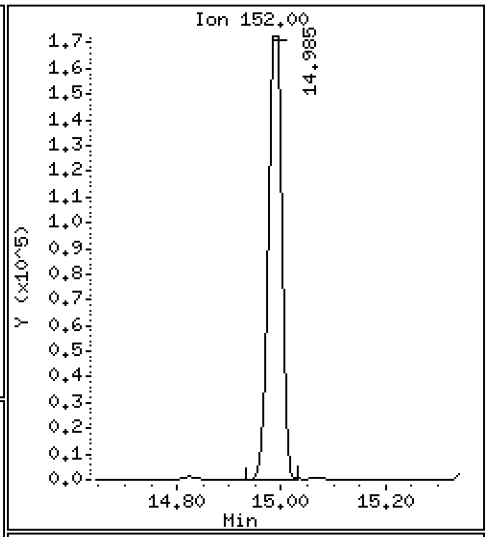
Concentration: 4.223 ug/mL

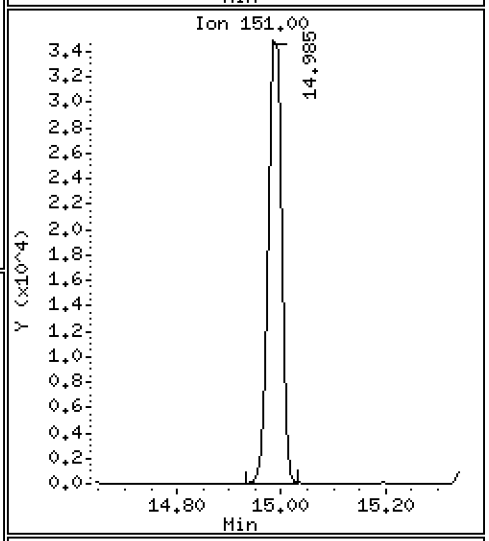


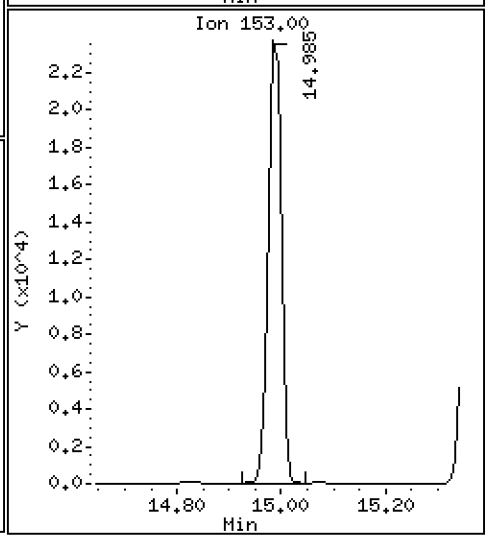












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

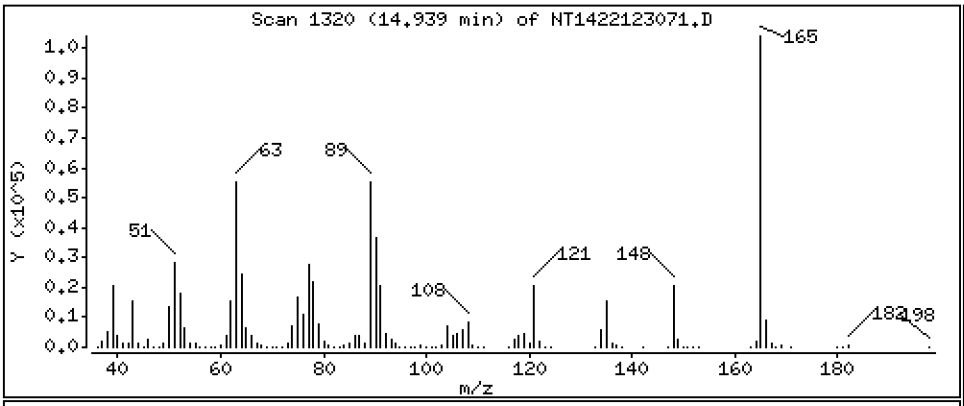
Operator: VTS

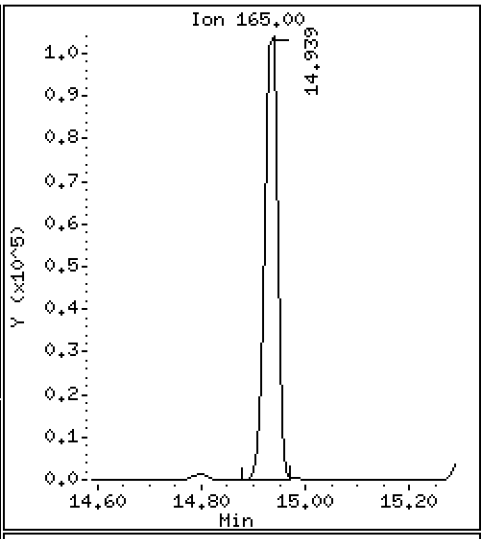
Column phase: ZB-5msi

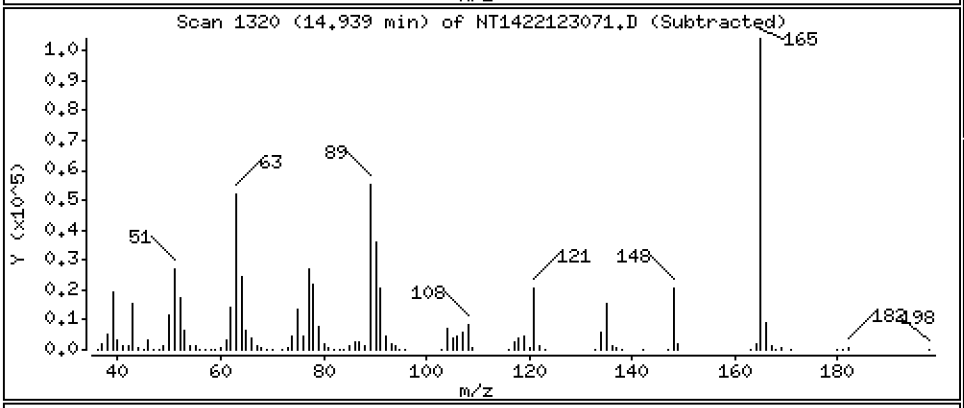
Column diameter: 0.25

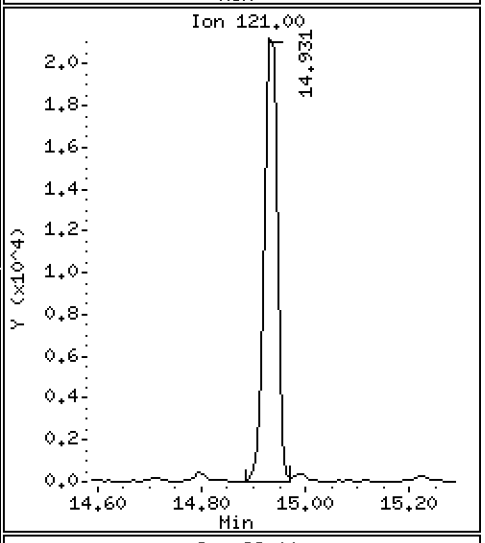
41 2,6-Dinitrotoluene

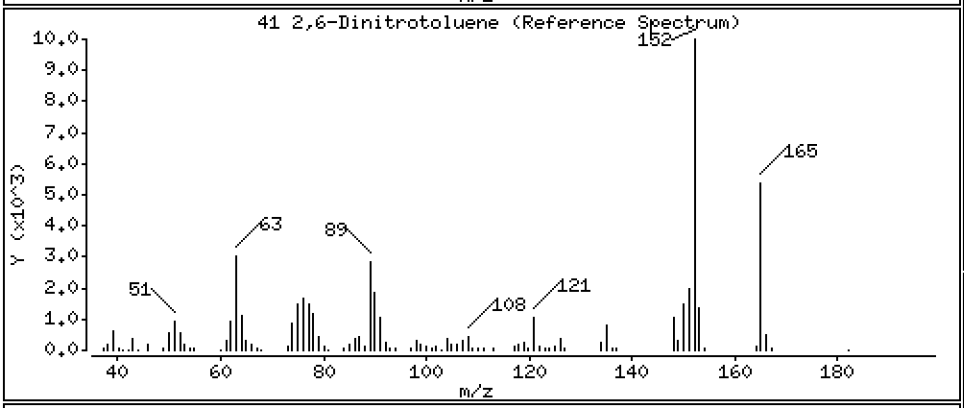
Concentration: 16.78 ug/mL

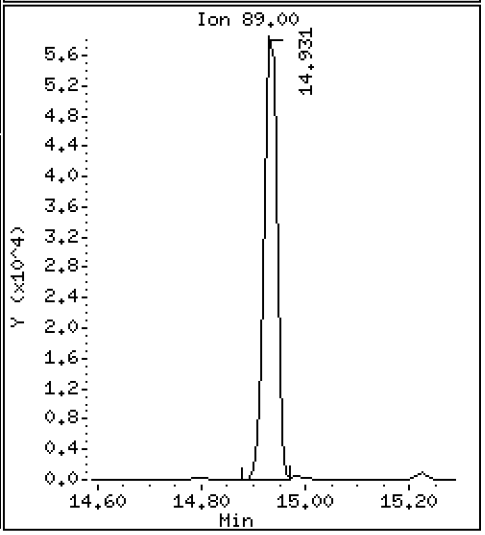


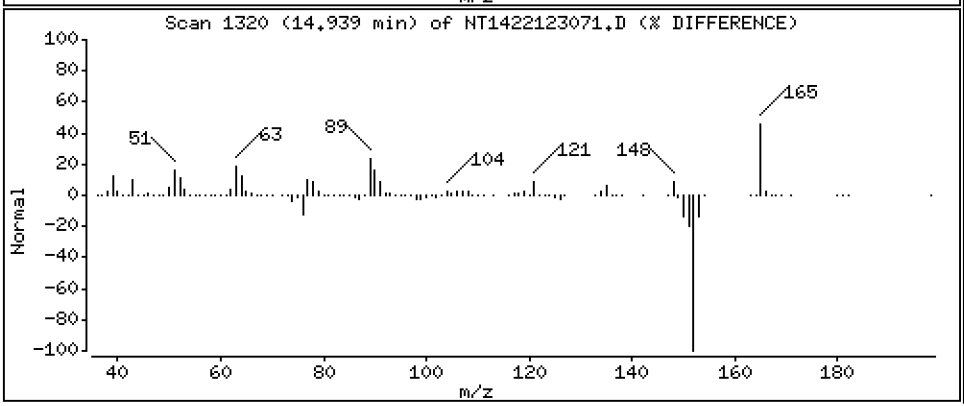












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

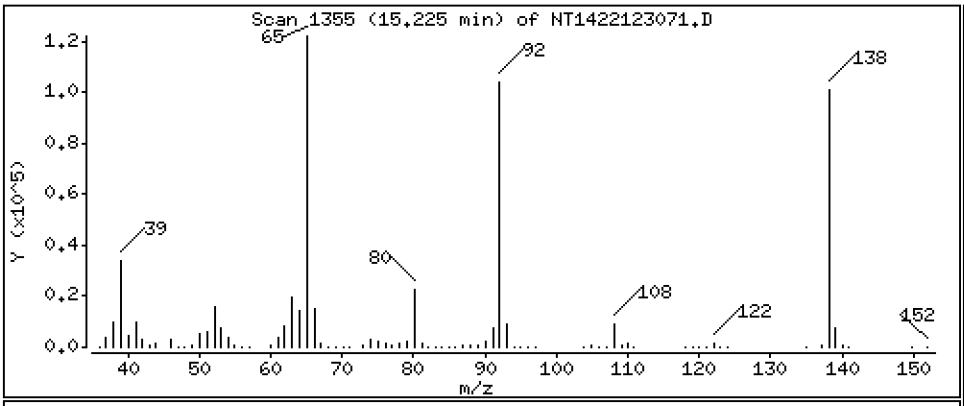
Operator: VTS

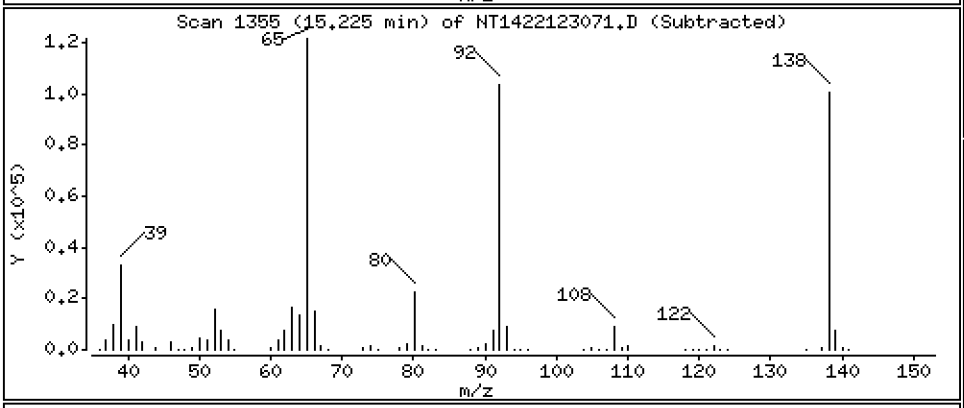
Column phase: ZB-5msi

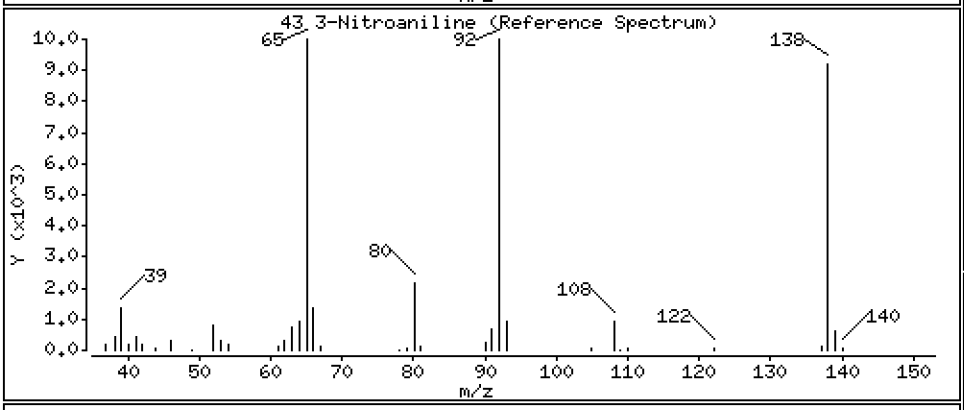
Column diameter: 0.25

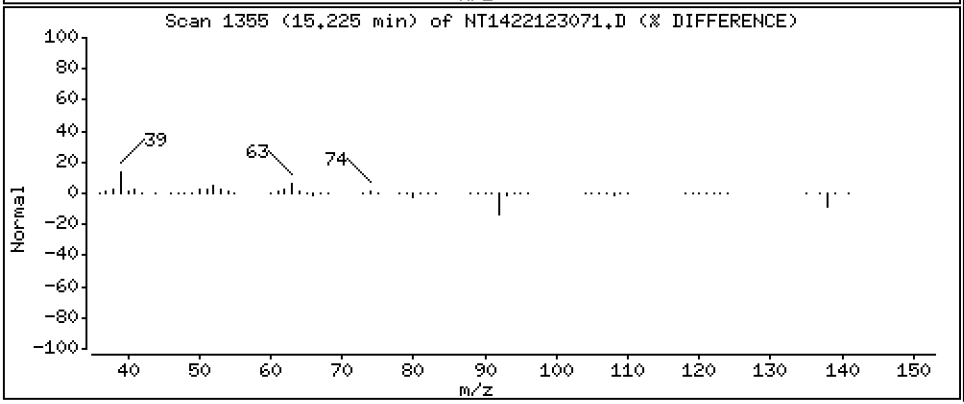
43 3-Nitroaniline

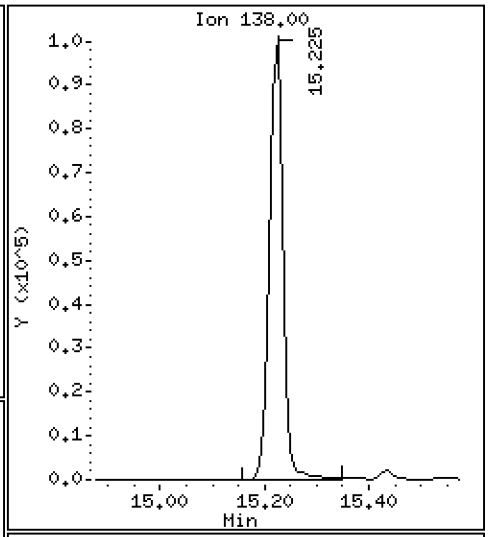
Concentration: 14.04 ug/mL

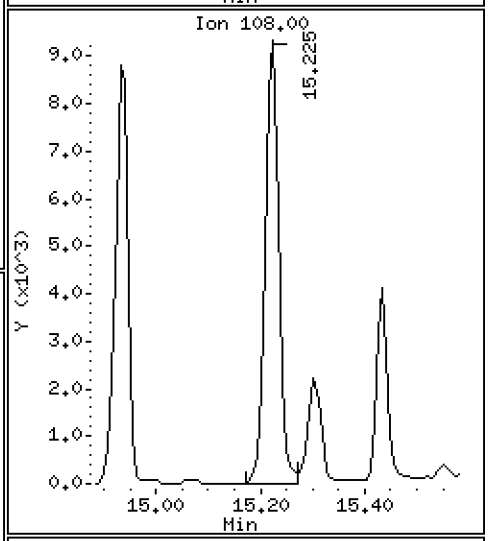


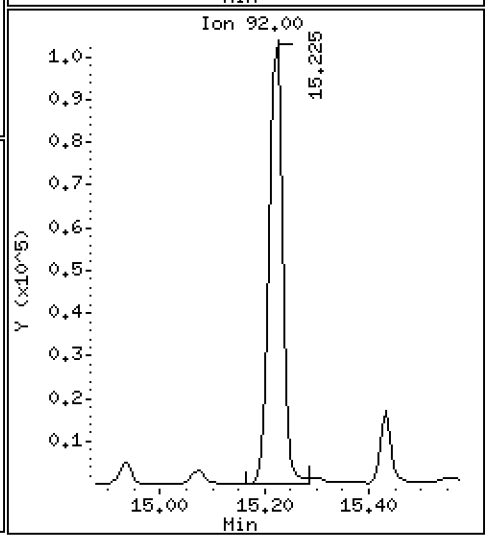












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

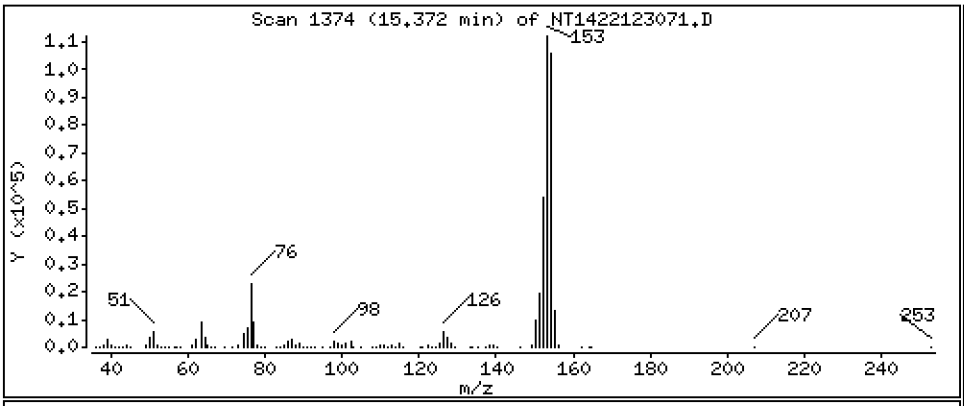
Operator: VTS

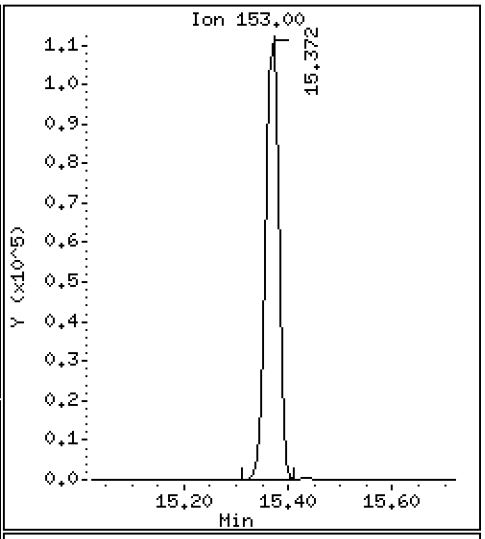
Column phase: ZB-5msi

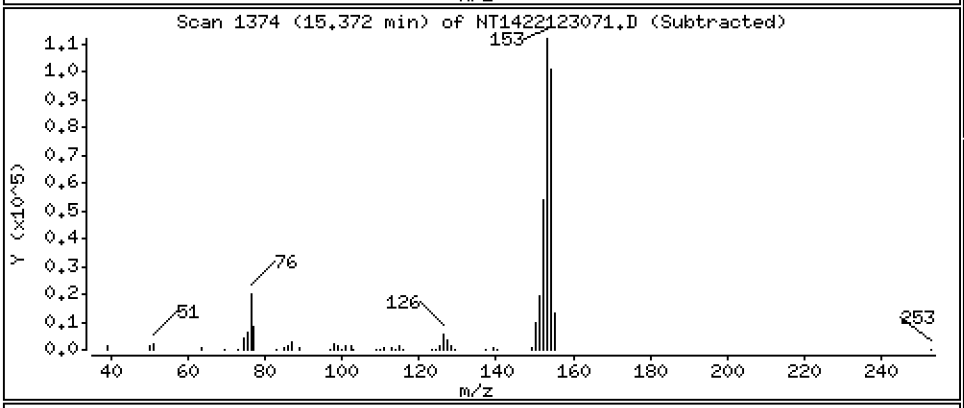
Column diameter: 0.25

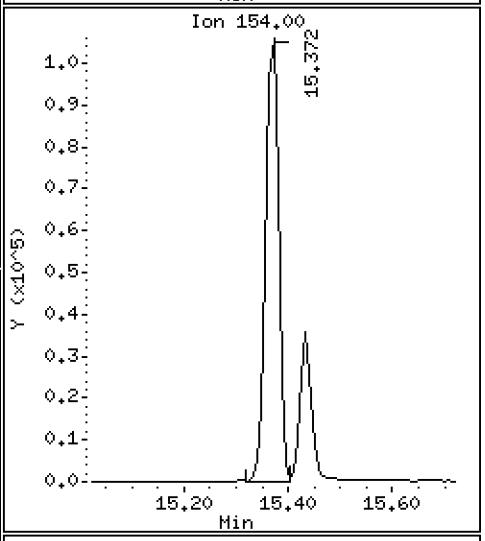
44 Acenaphthene

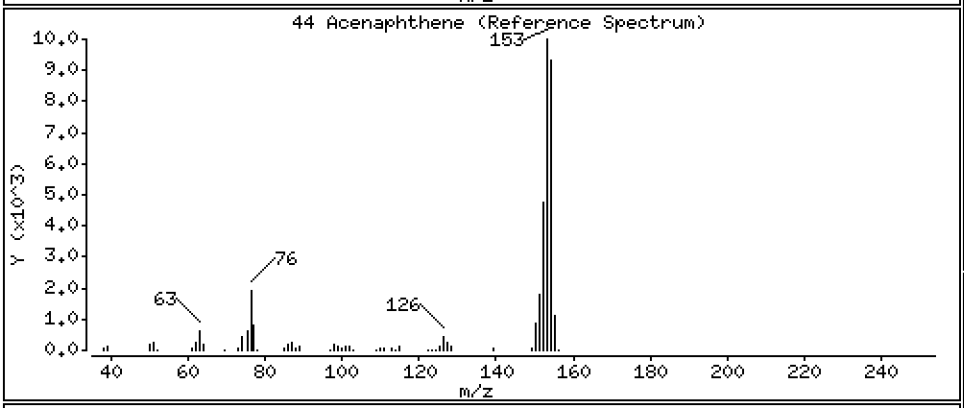
Concentration: 4.341 ug/mL

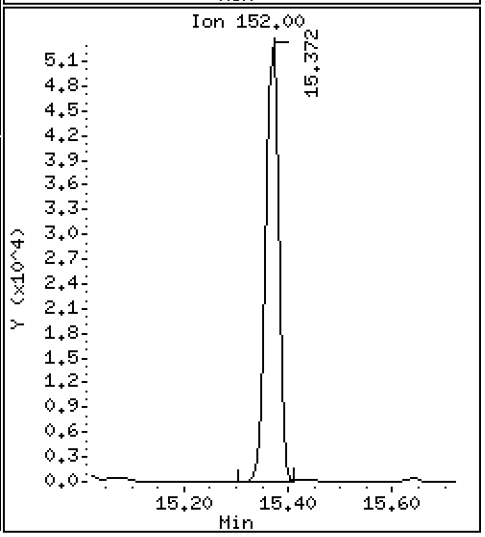


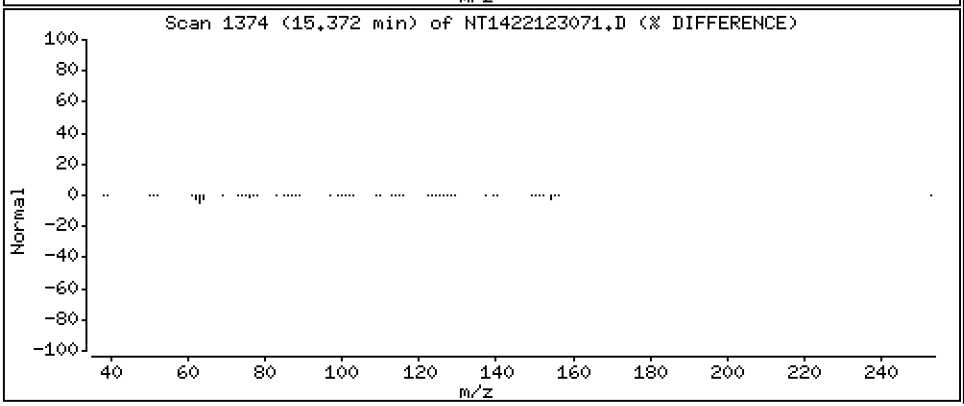












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

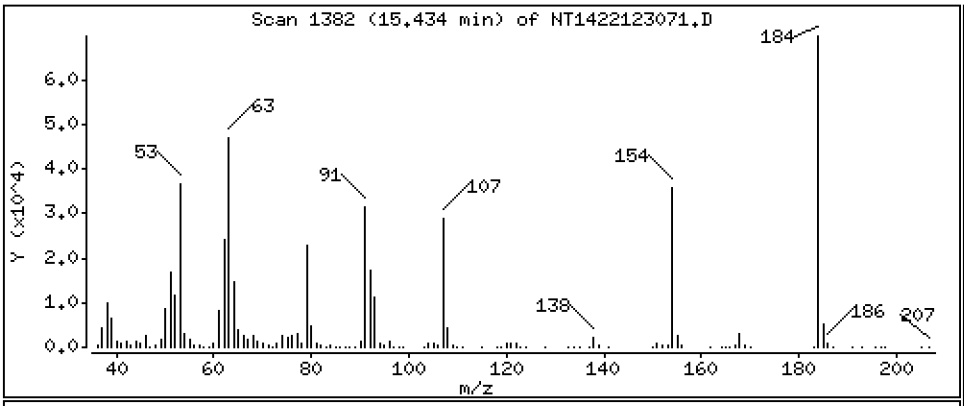
Operator: VTS

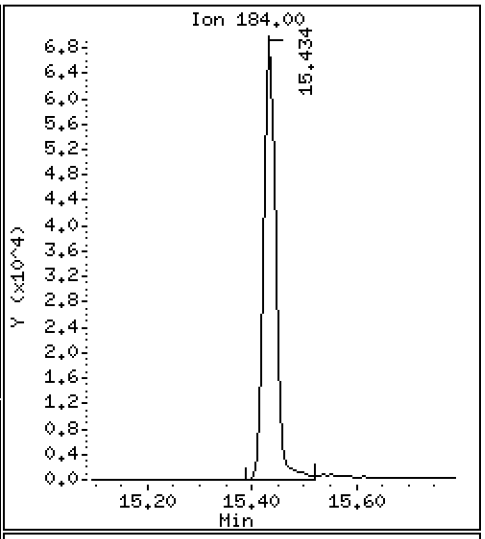
Column phase: ZB-5msi

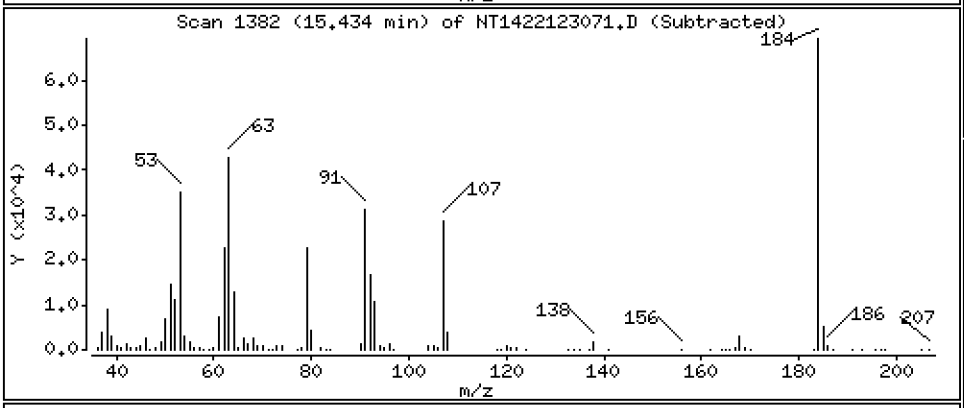
Column diameter: 0.25

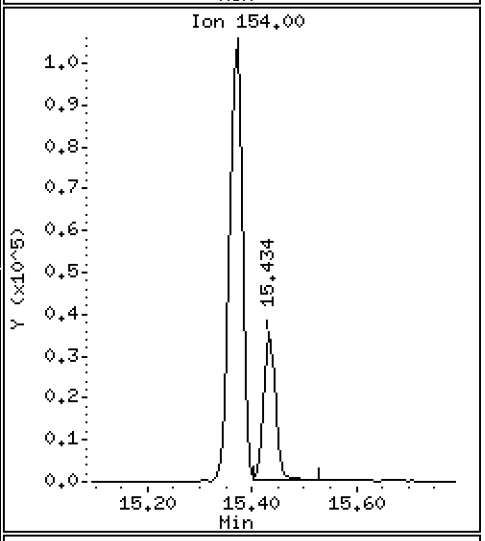
45 2,4-Dinitrophenol

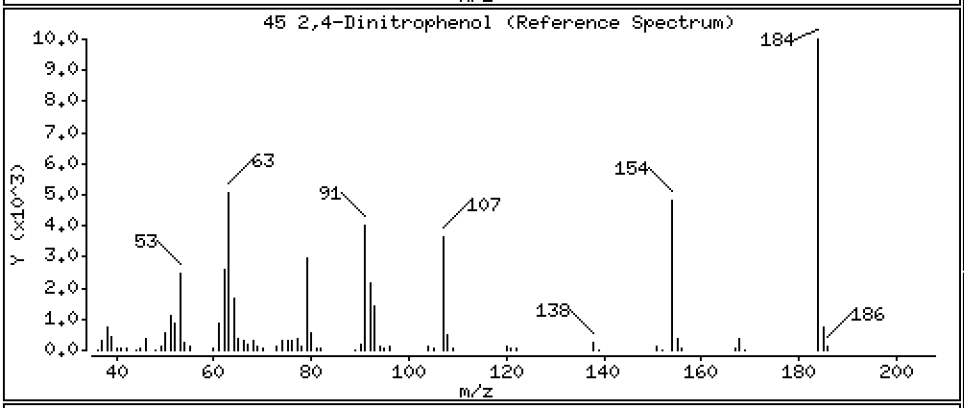
Concentration: 11.91 ug/mL

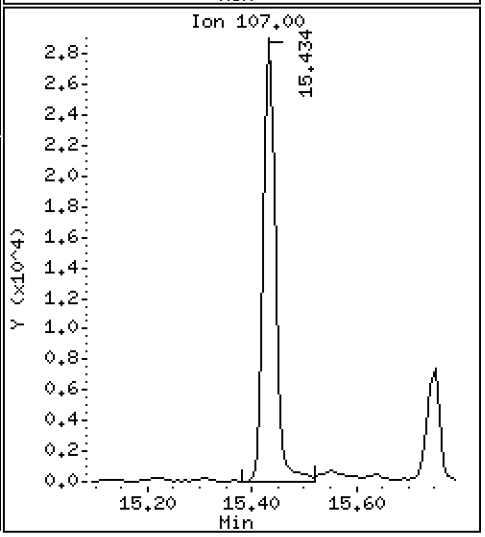


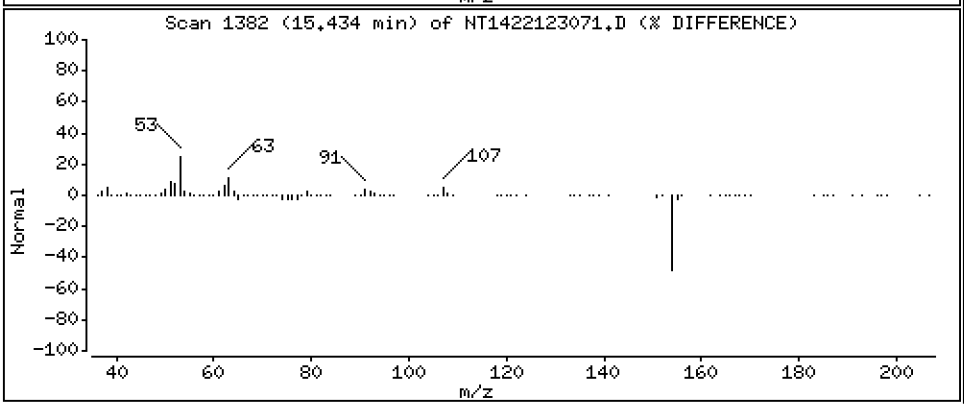












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

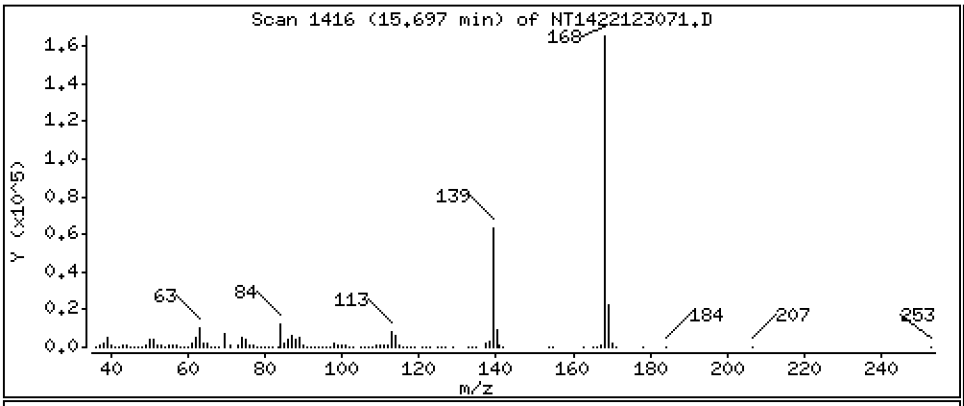
Operator: VTS

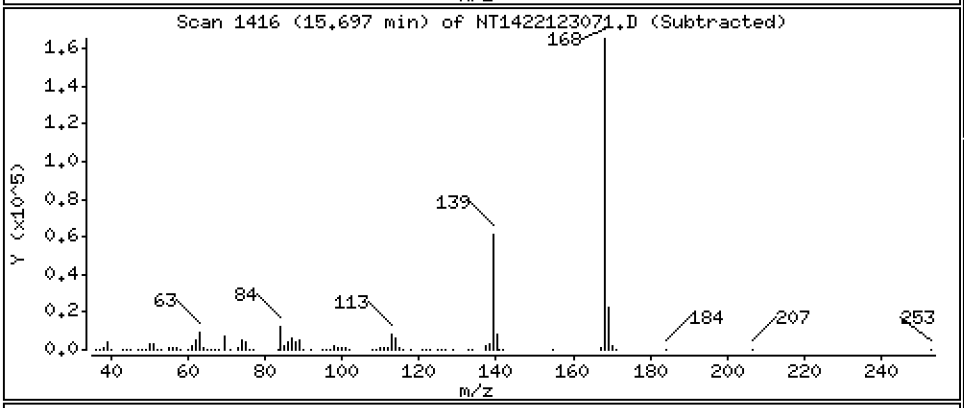
Column phase: ZB-5msi

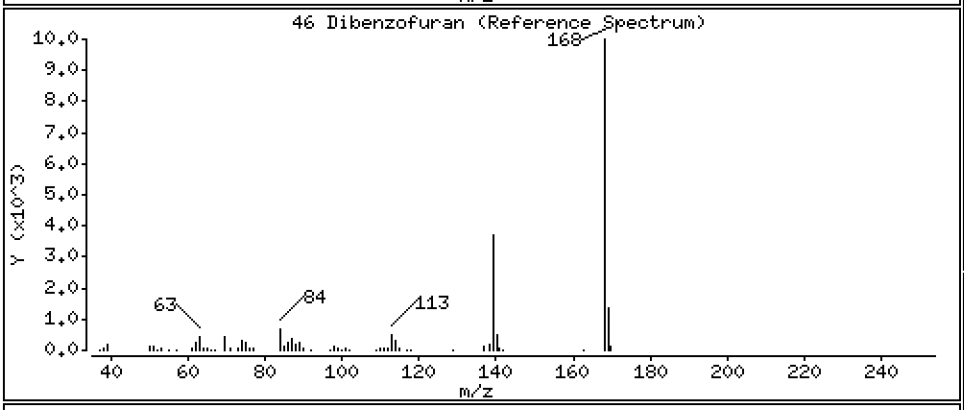
Column diameter: 0.25

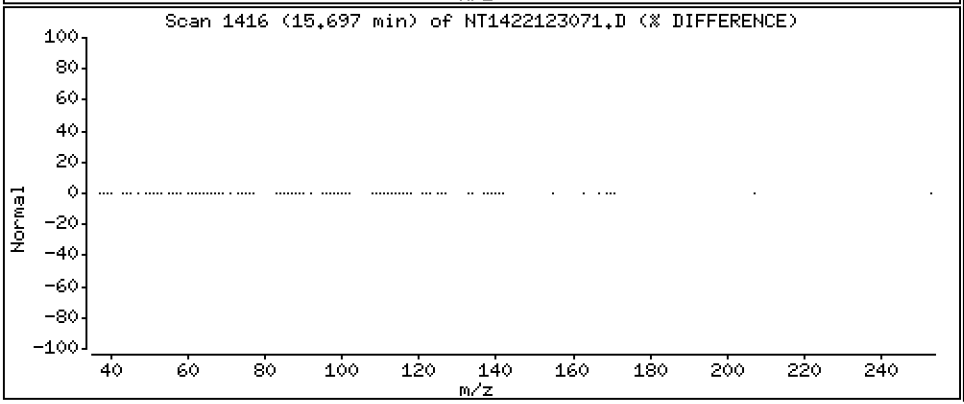
46 Dibenzofuran

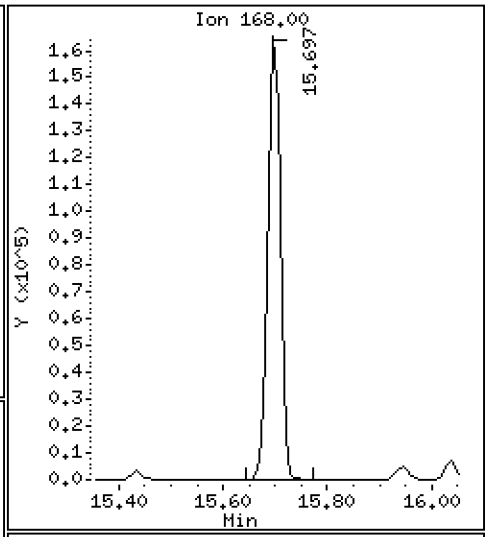
Concentration: 4.059 ug/mL

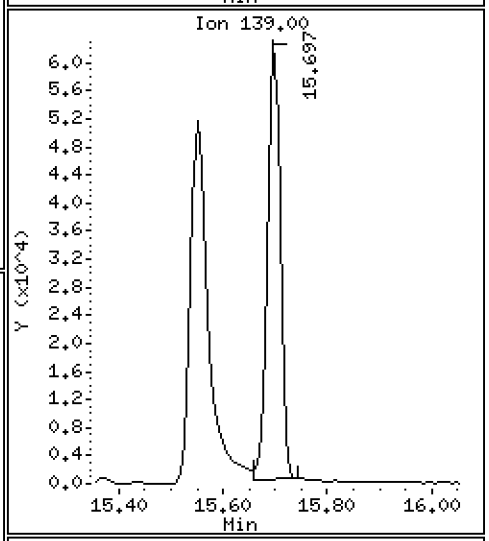


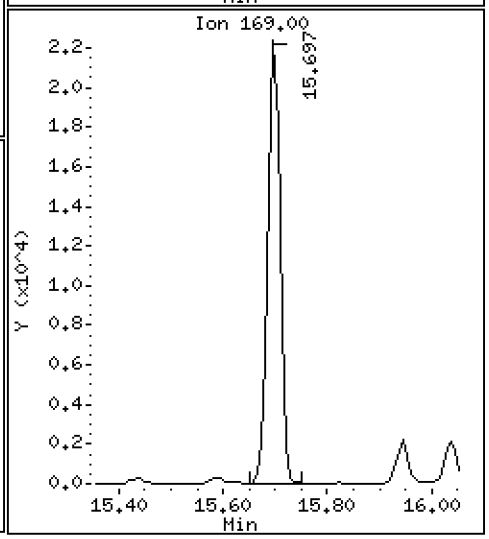












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

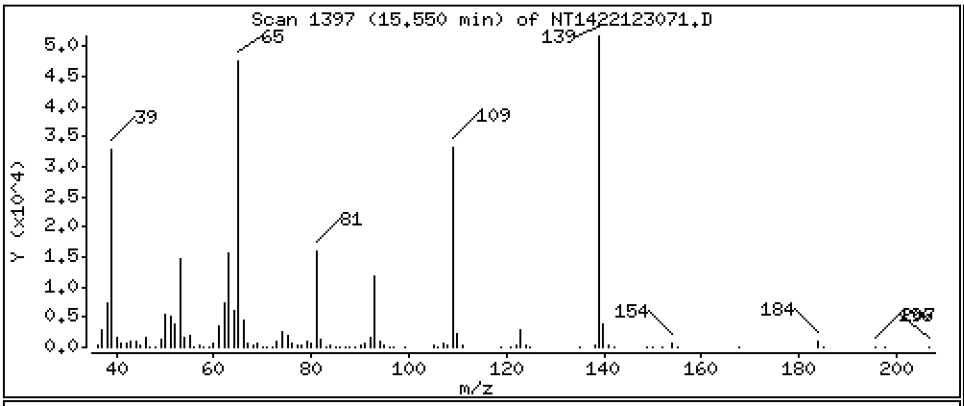
Operator: VTS

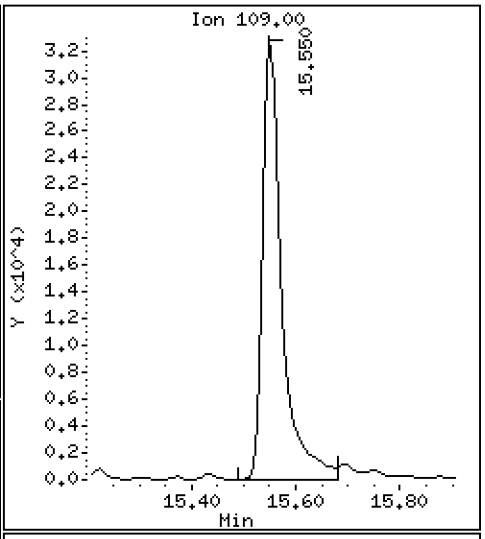
Column phase: ZB-5msi

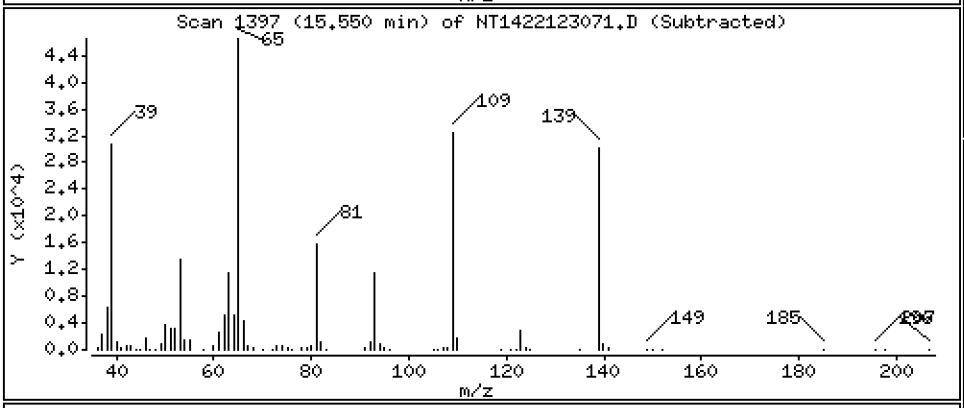
Column diameter: 0.25

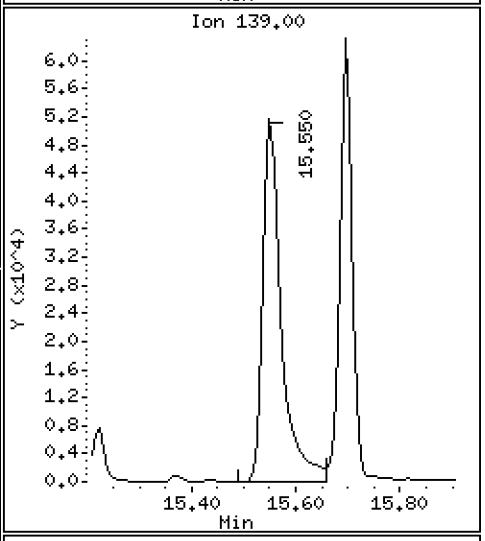
47 4-Nitrophenol

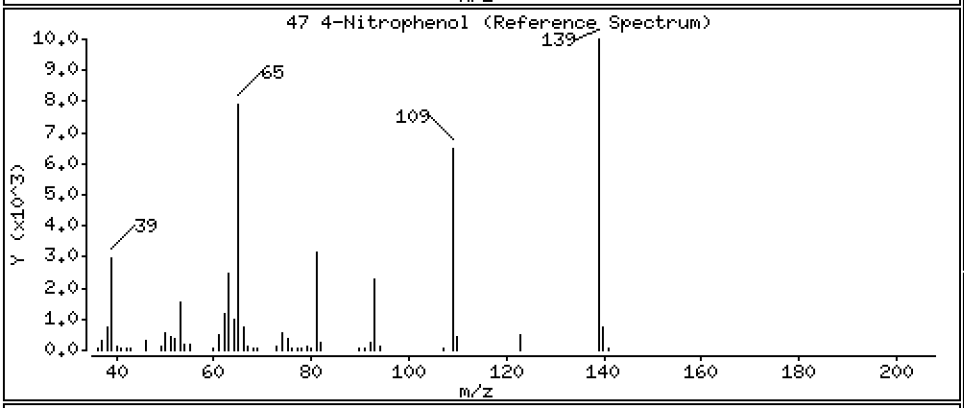
Concentration: 13.38 ug/mL

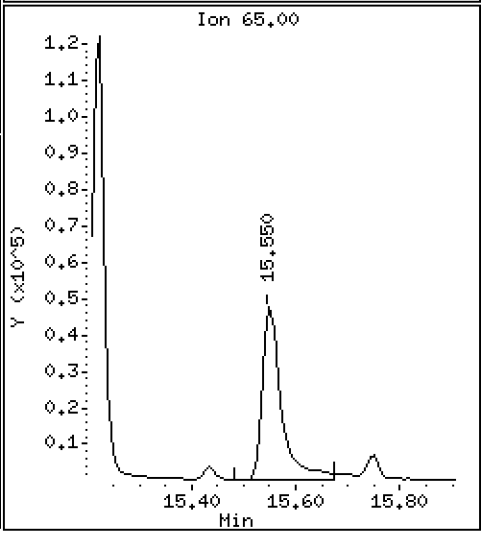


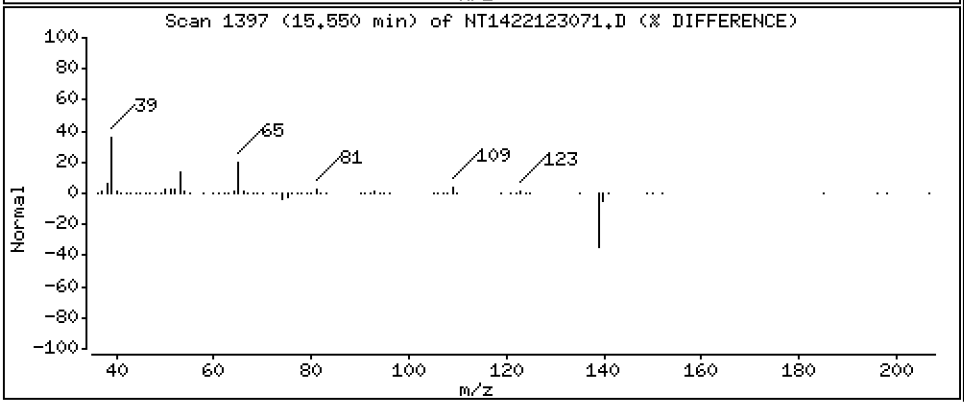












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123071.D

Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

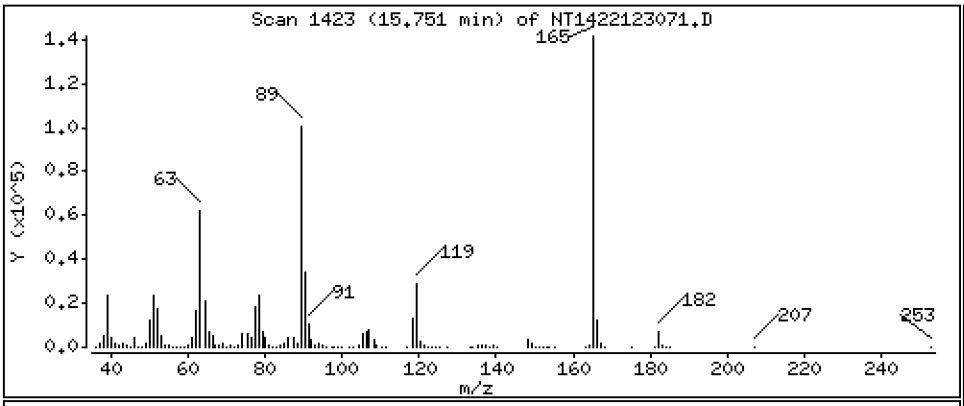
Operator: VTS

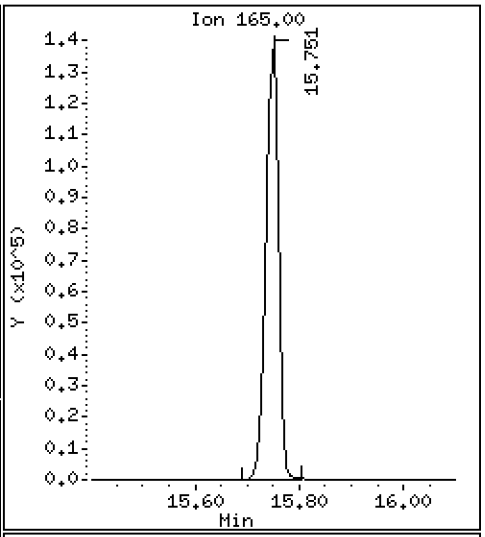
Column phase: ZB-5msi

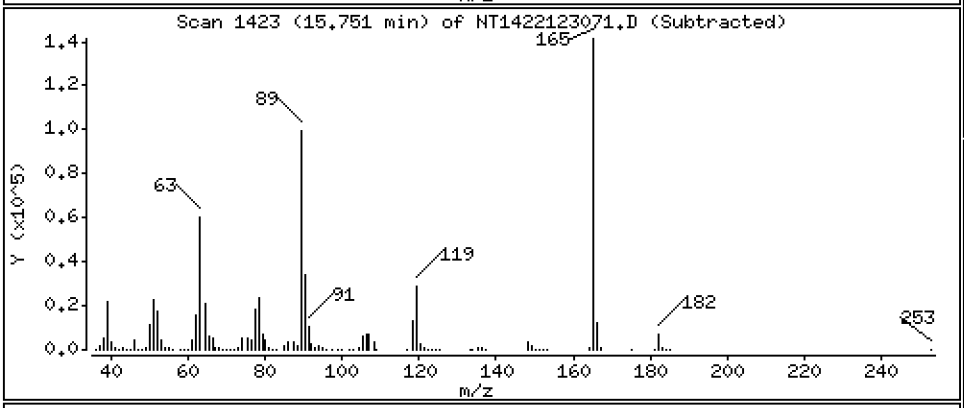
Column diameter: 0.25

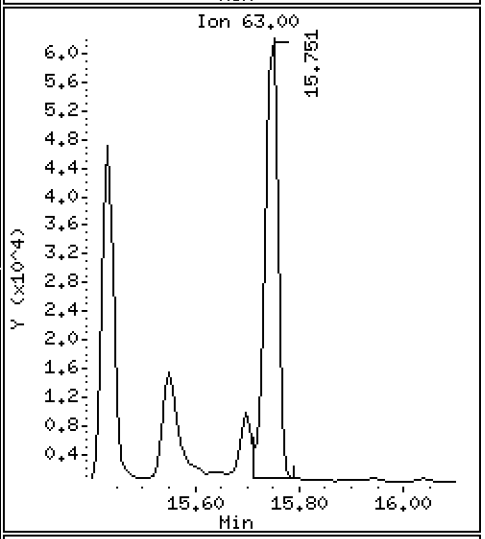
48 2,4-Dinitrotoluene

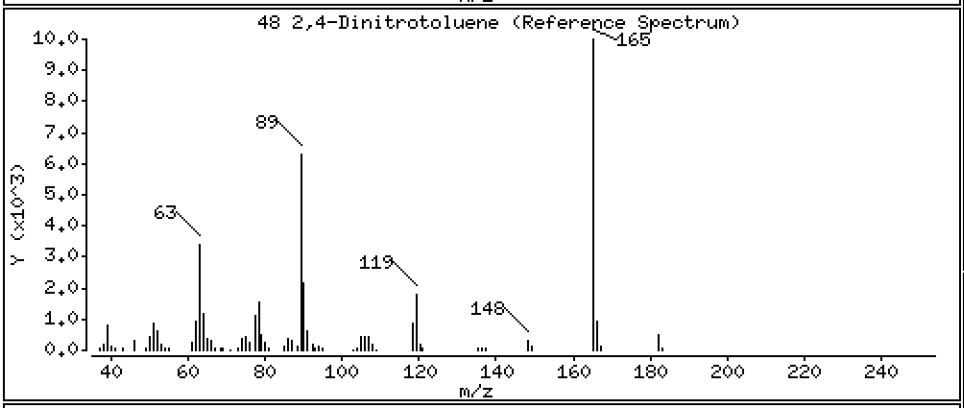
Concentration: 15.86 ug/mL

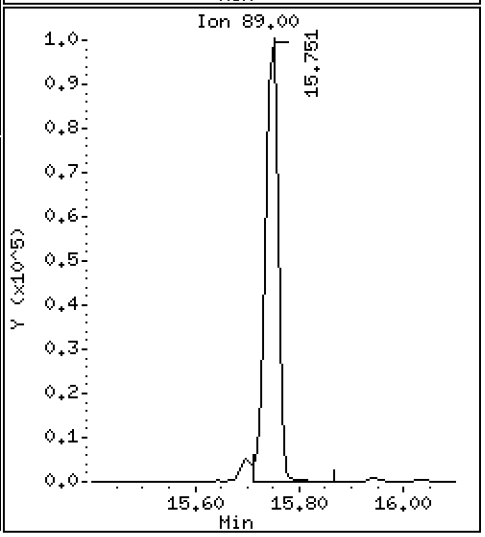


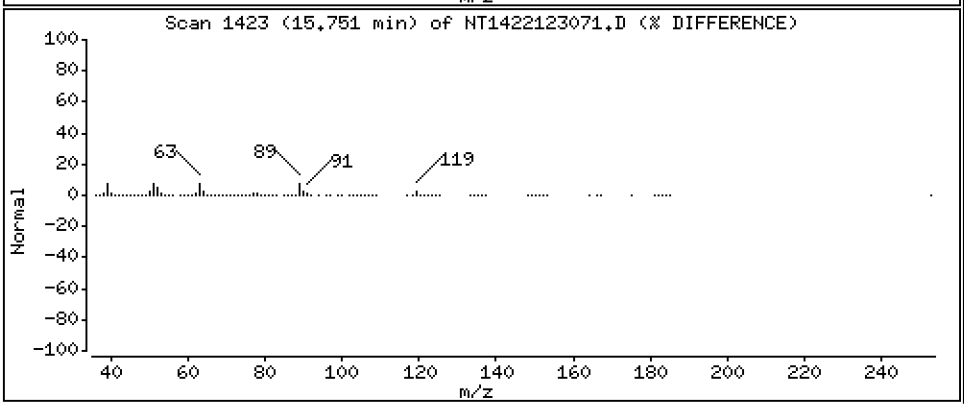












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

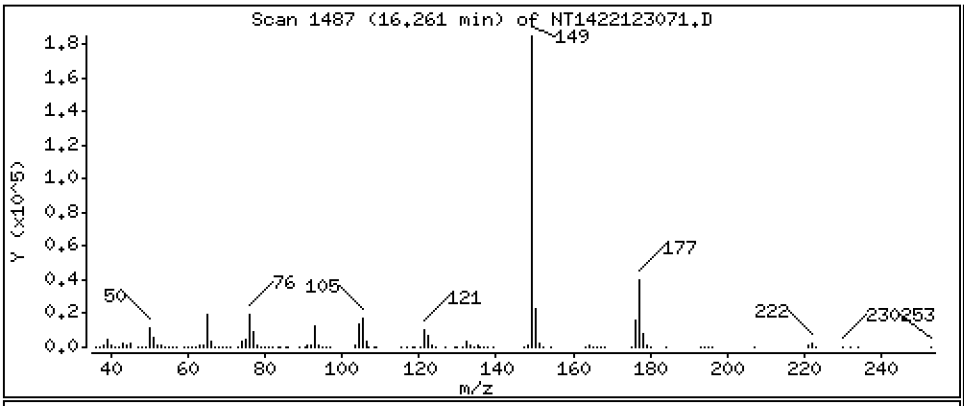
Operator: VTS

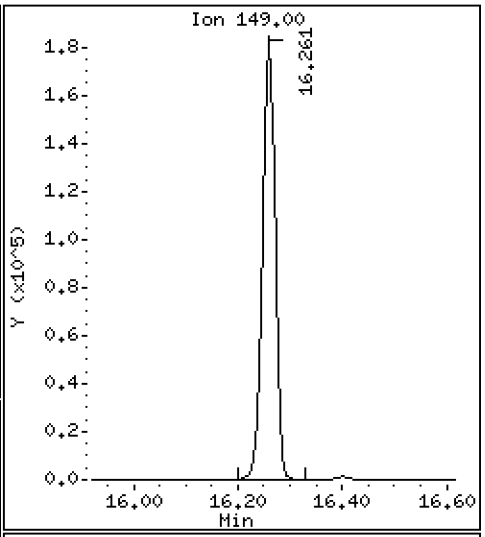
Column phase: ZB-5msi

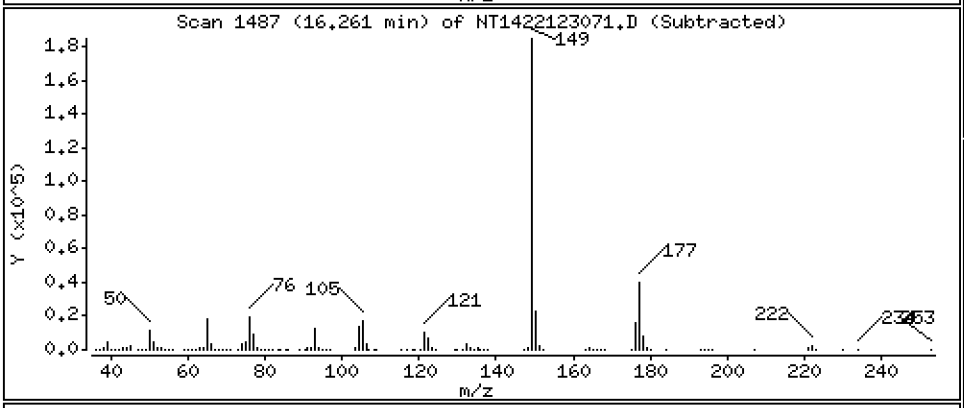
Column diameter: 0.25

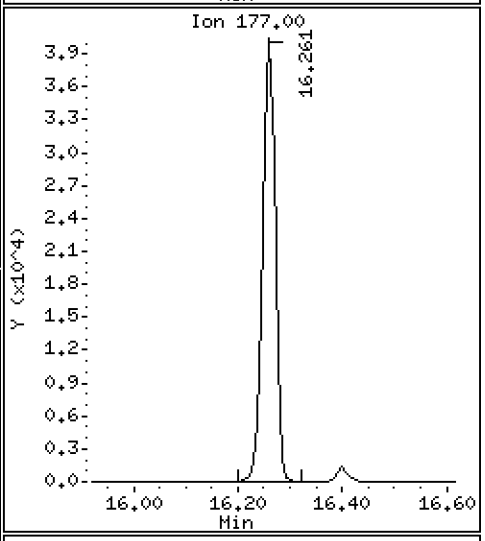
50 Diethylphthalate

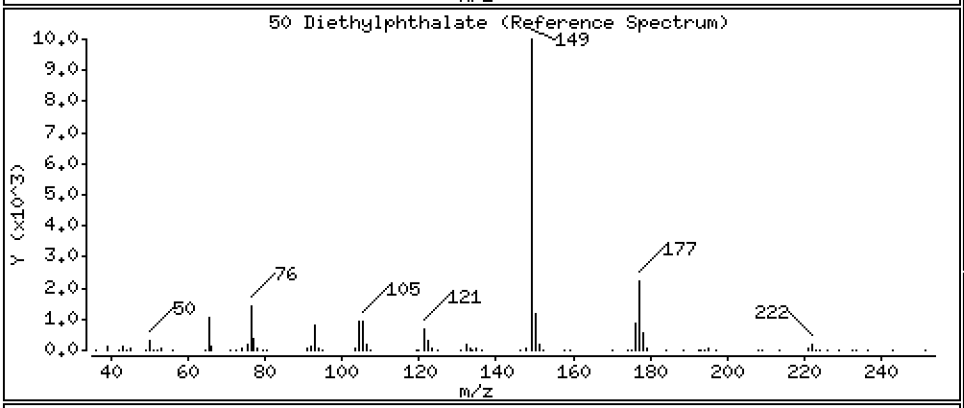
Concentration: 5.394 ug/mL

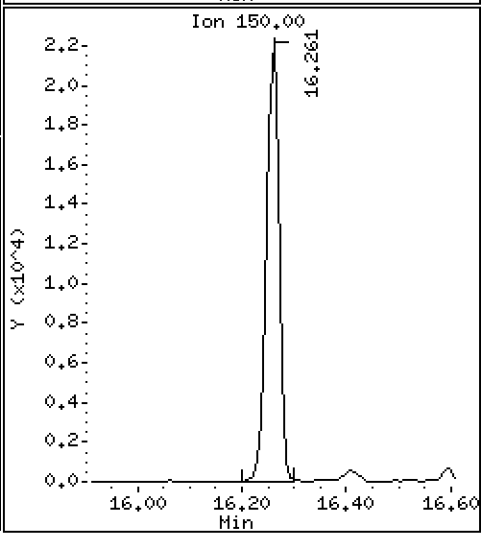


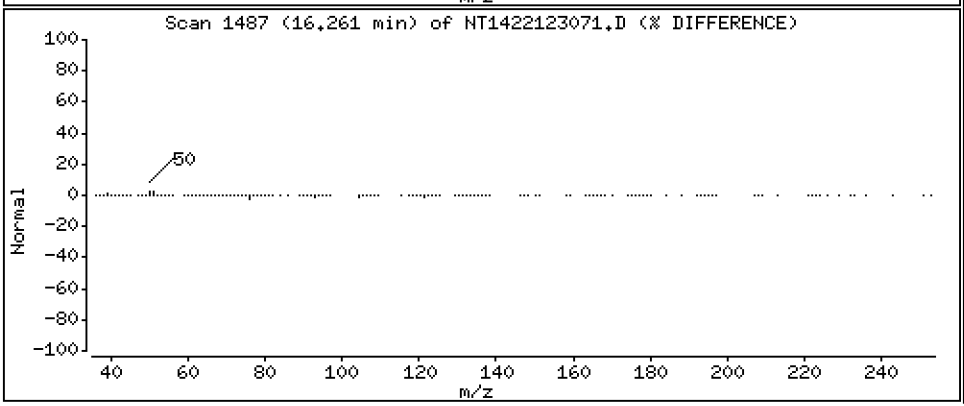












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

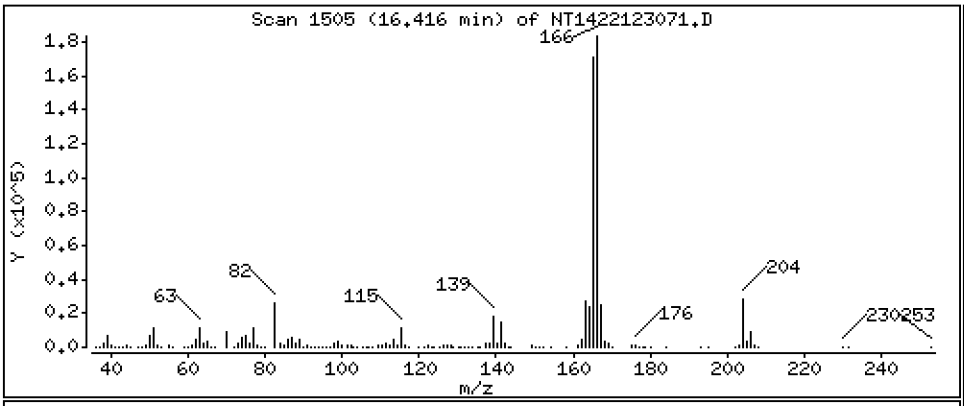
Operator: VTS

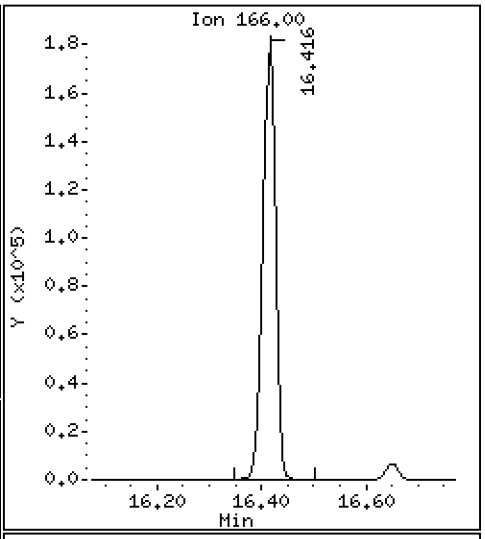
Column phase: ZB-5msi

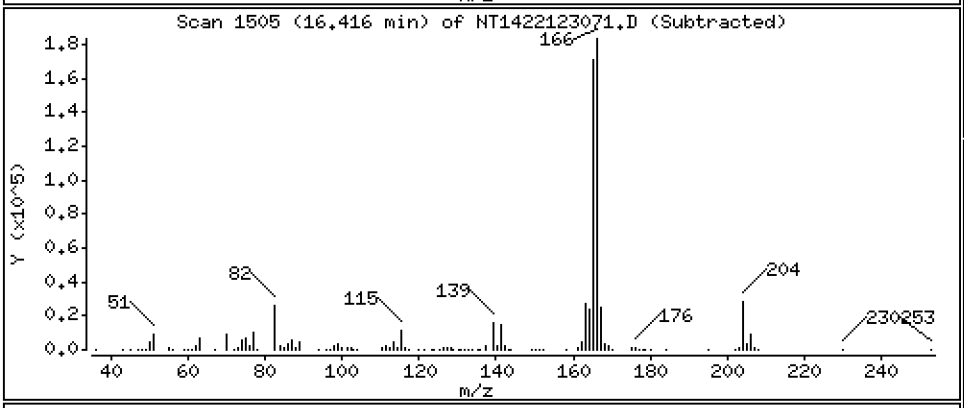
Column diameter: 0.25

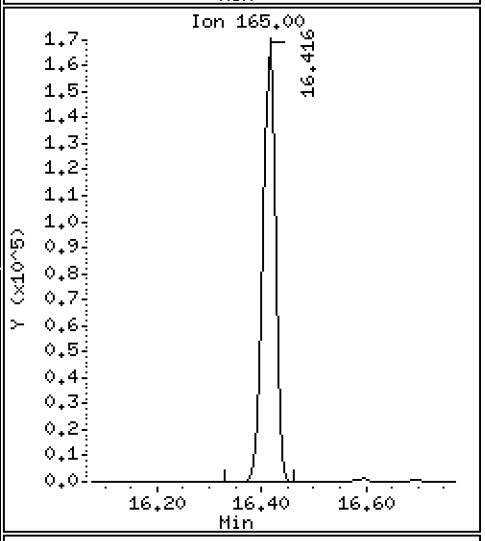
49 Fluorene

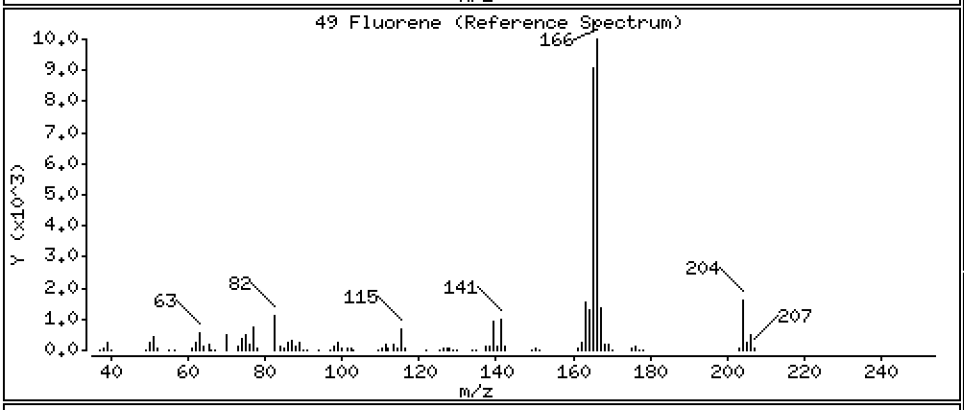
Concentration: 4.702 ug/mL

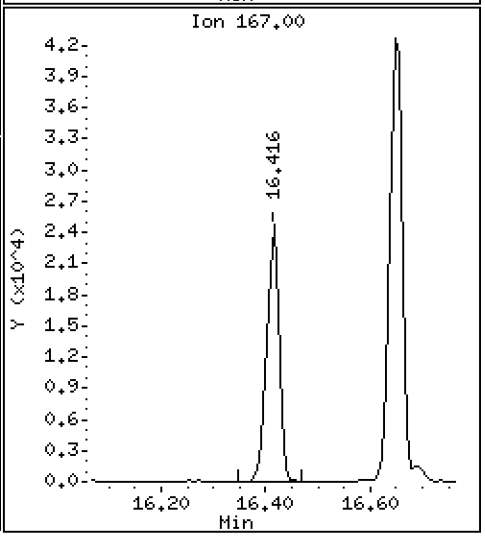


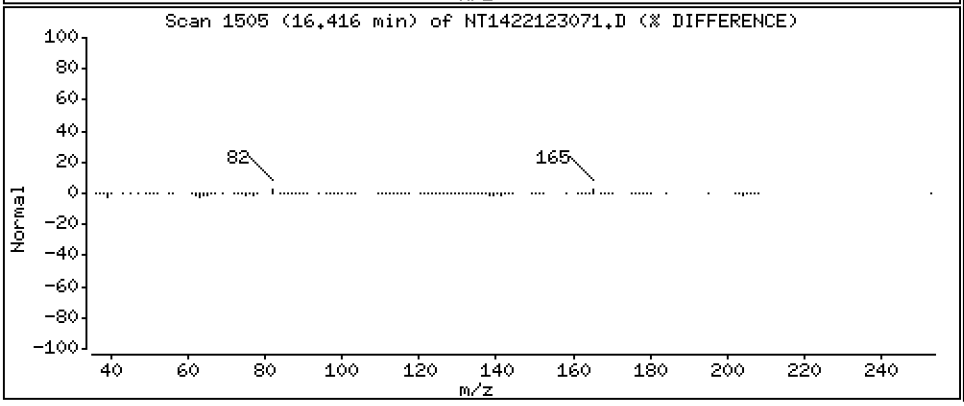












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

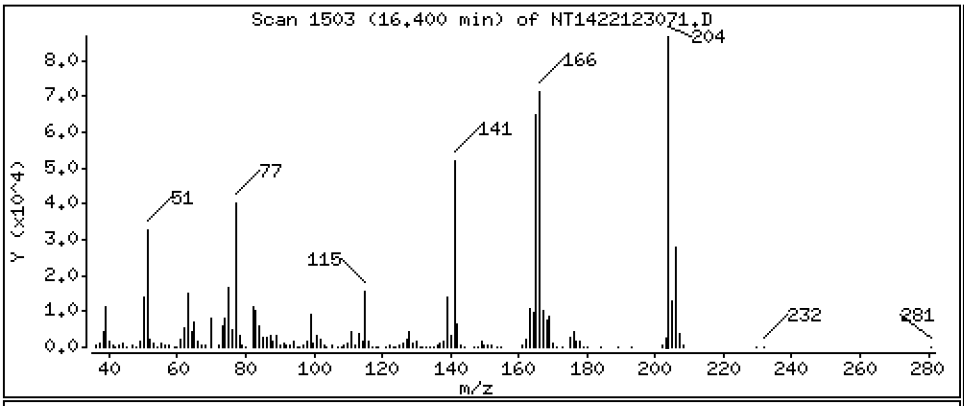
Operator: VTS

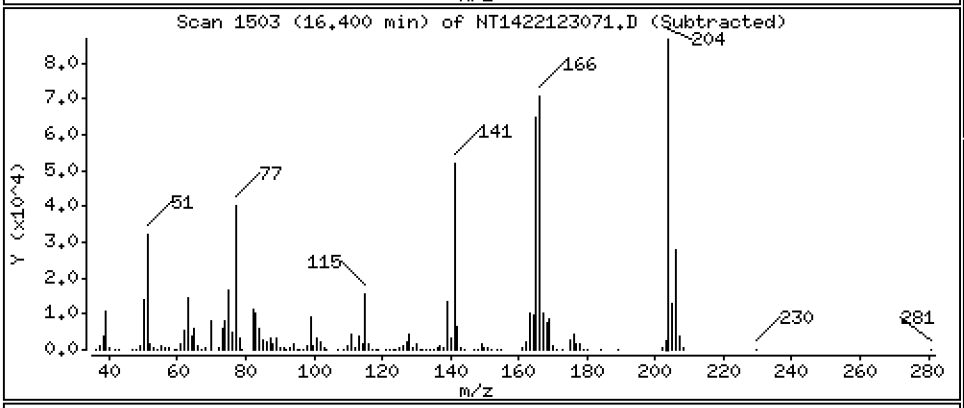
Column phase: ZB-5msi

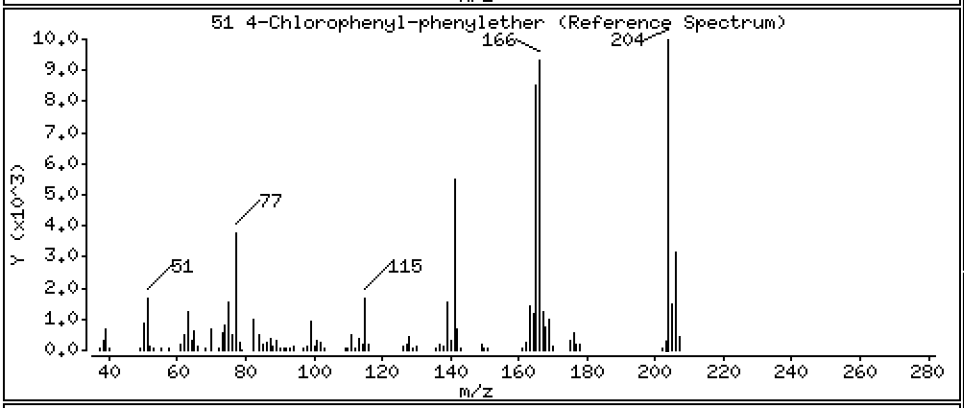
Column diameter: 0.25

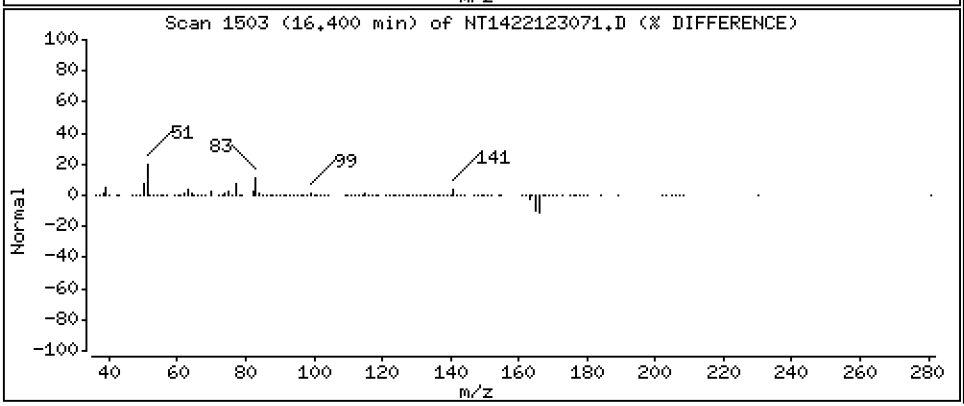
51 4-Chlorophenyl-phenylether

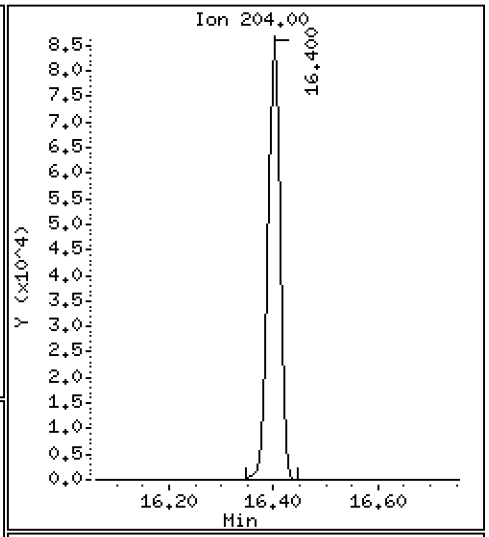
Concentration: 4.602 ug/mL

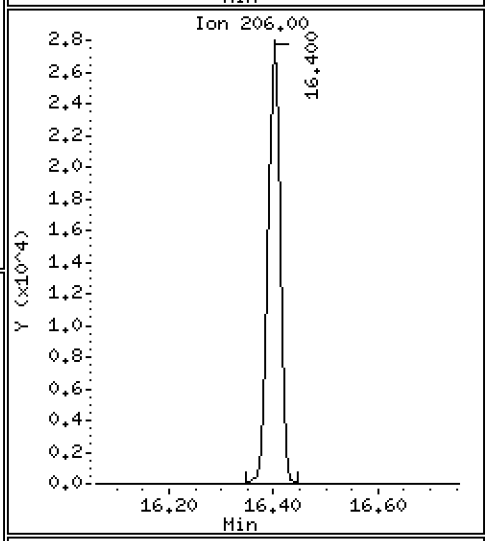


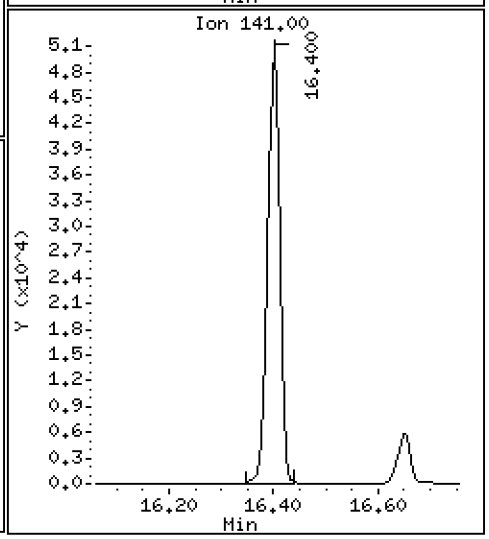












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

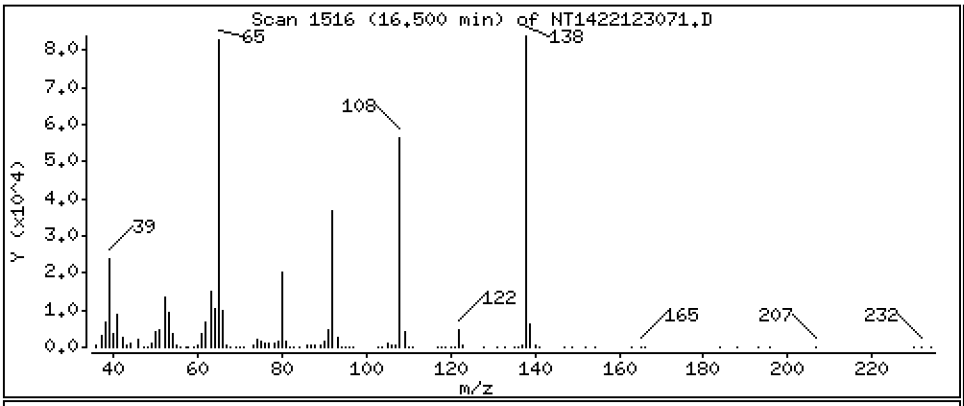
Operator: VTS

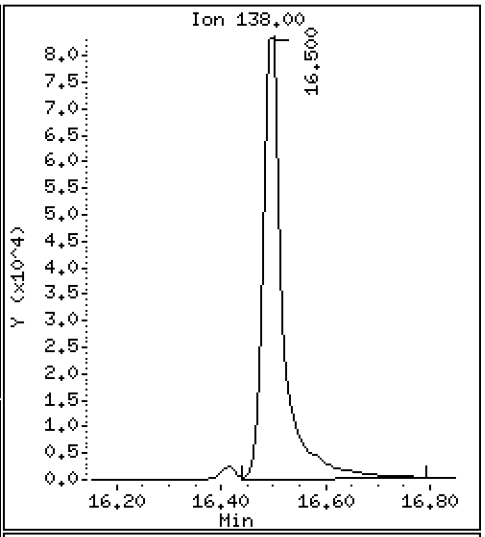
Column phase: ZB-5msi

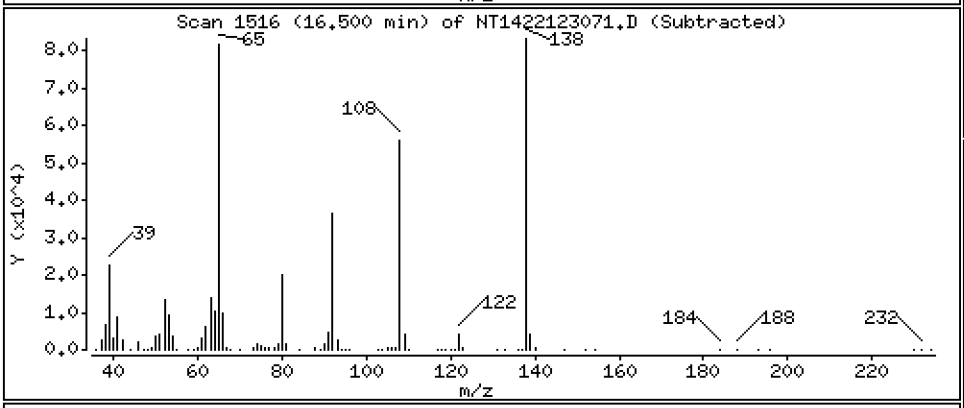
Column diameter: 0.25

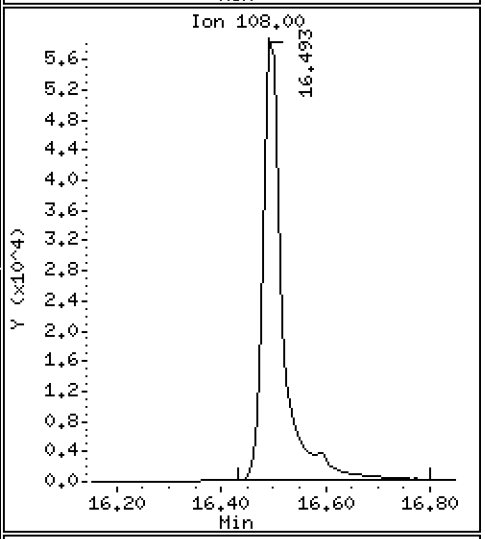
52 4-Nitroaniline

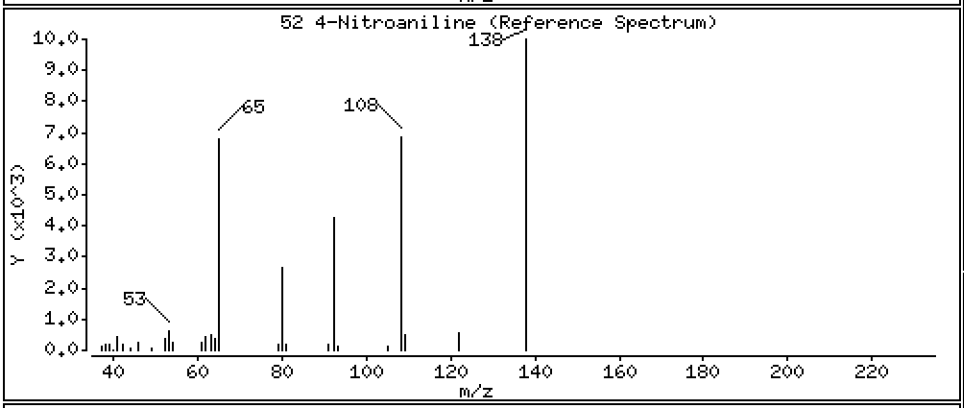
Concentration: 13.96 ug/mL

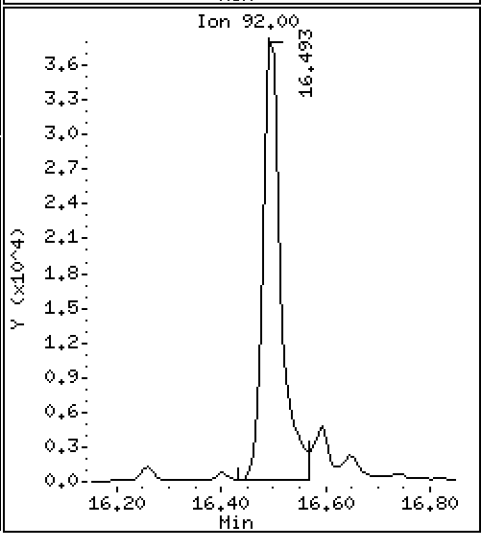


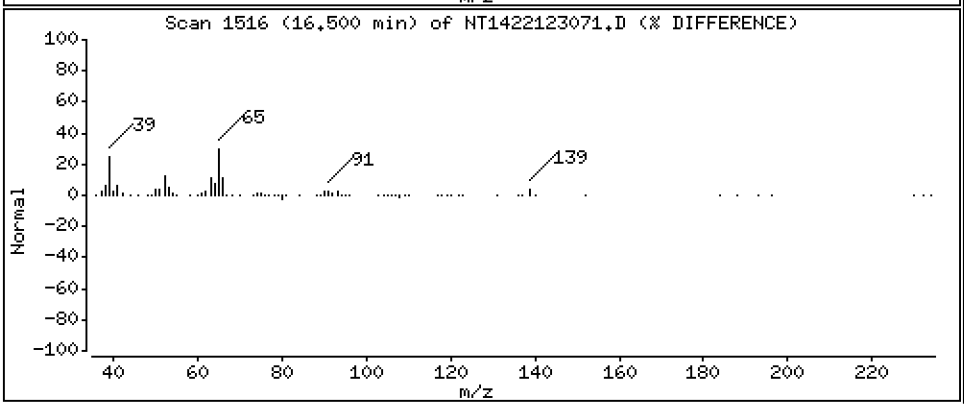












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

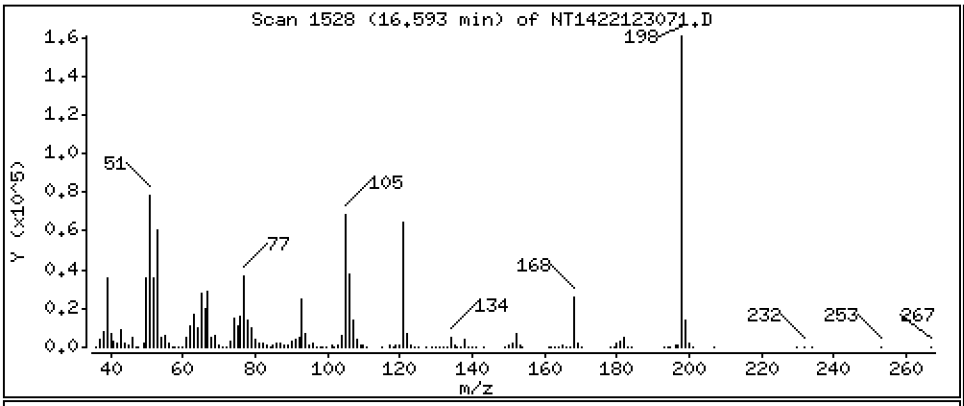
Operator: VTS

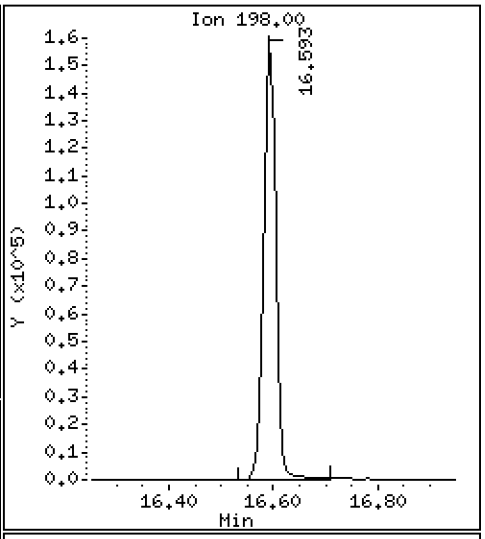
Column phase: ZB-5msi

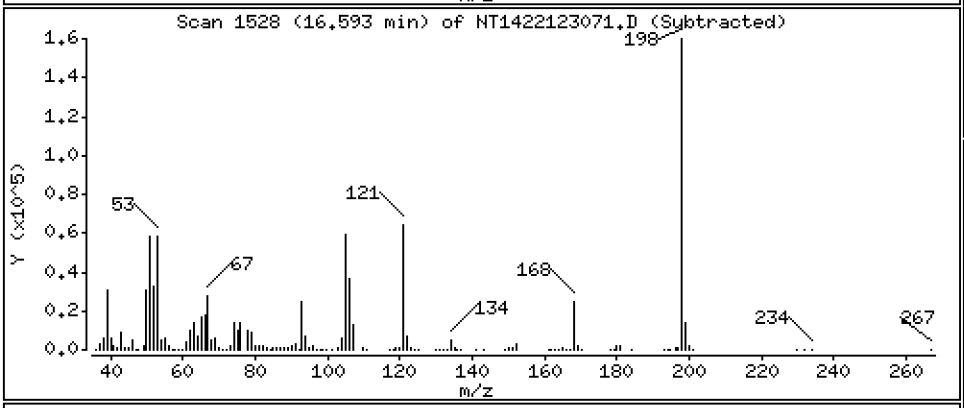
Column diameter: 0.25

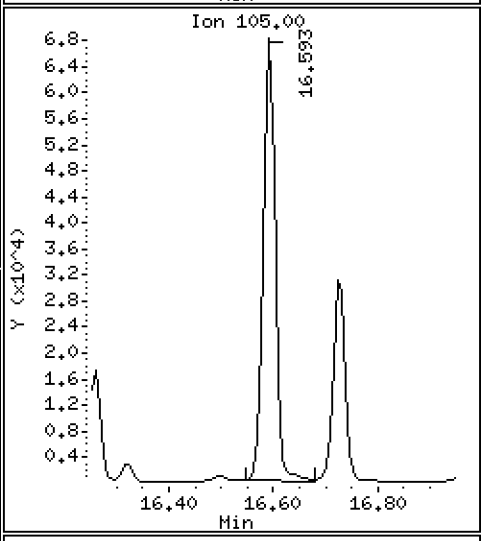
53 4,6-Dinitro-2-methylphenol

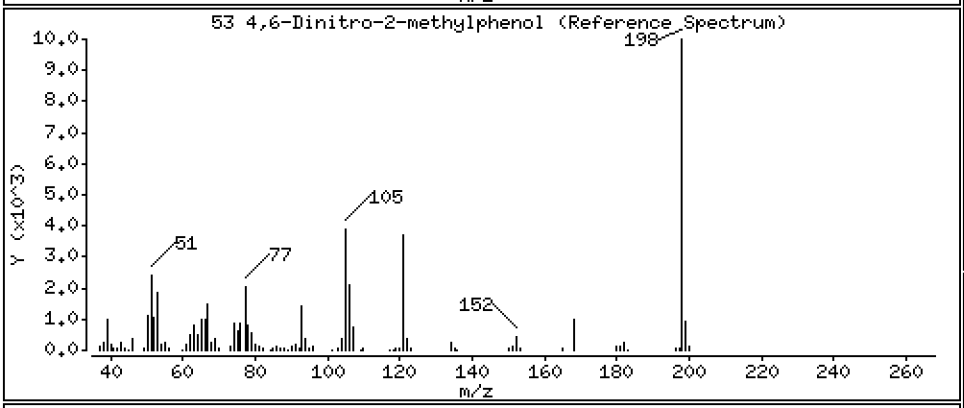
Concentration: 21.18 ug/mL

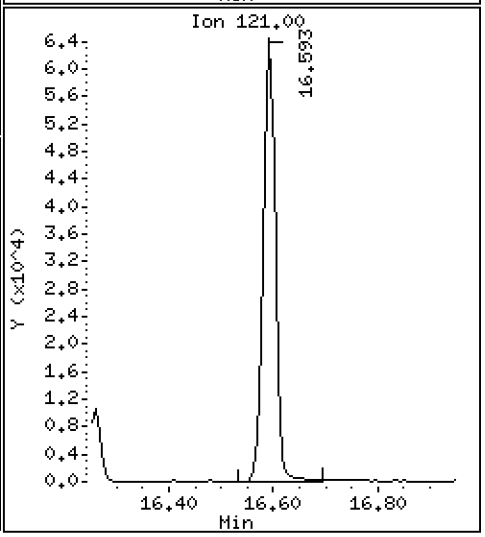


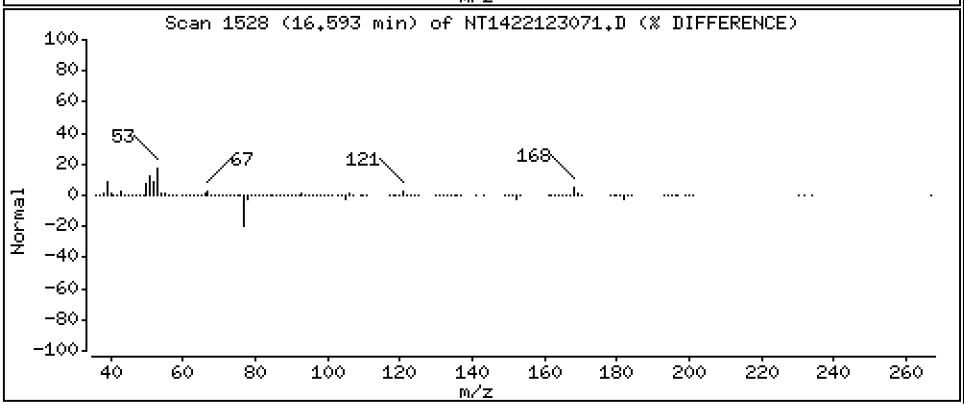












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

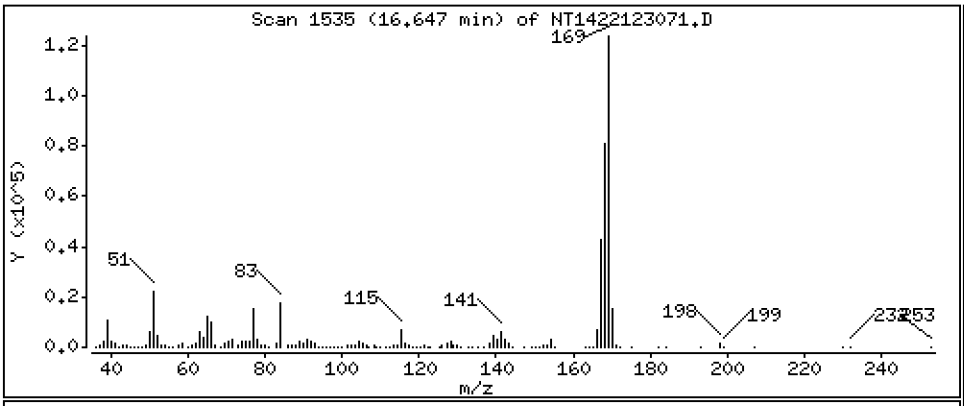
Operator: VTS

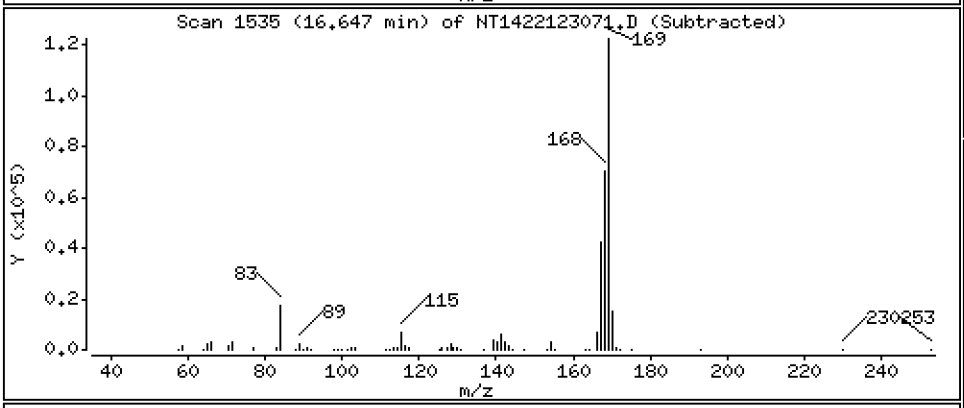
Column phase: ZB-5msi

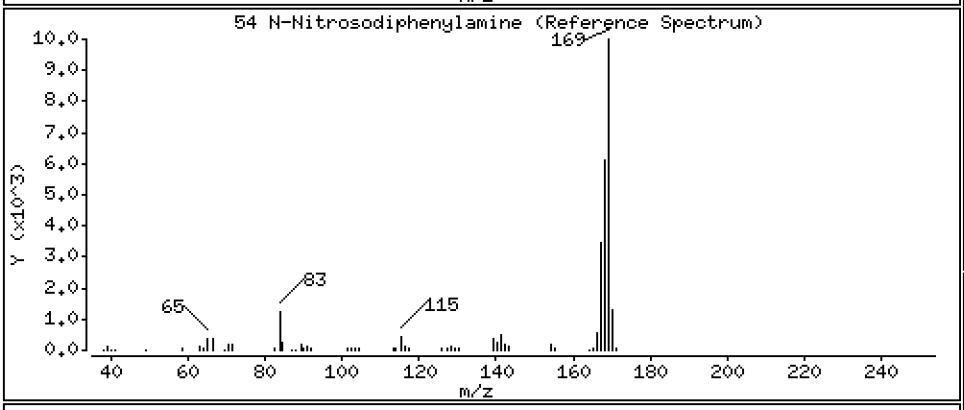
Column diameter: 0.25

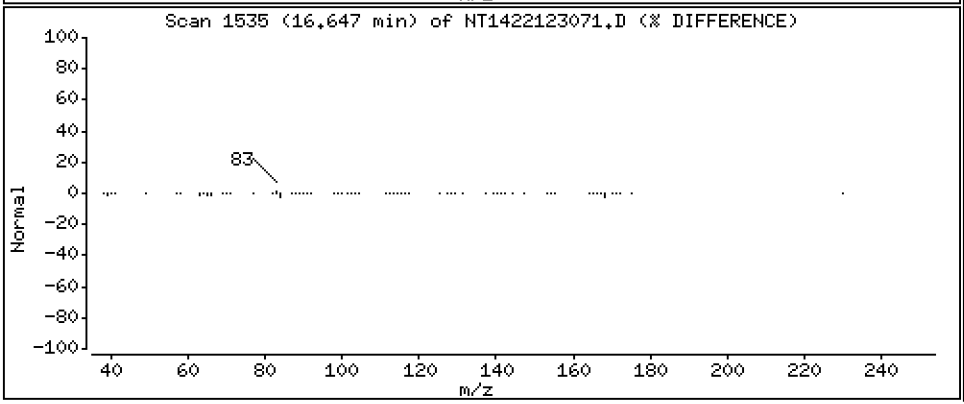
54 N-Nitrosodiphenylamine

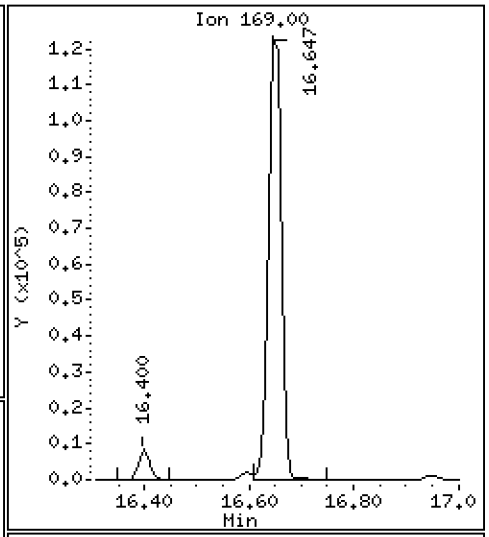
Concentration: 4.453 ug/mL

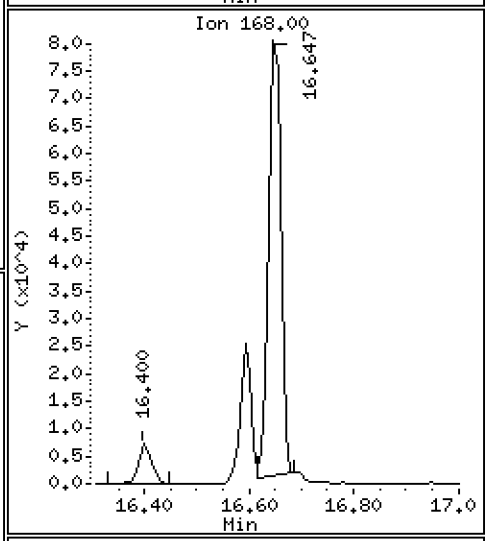


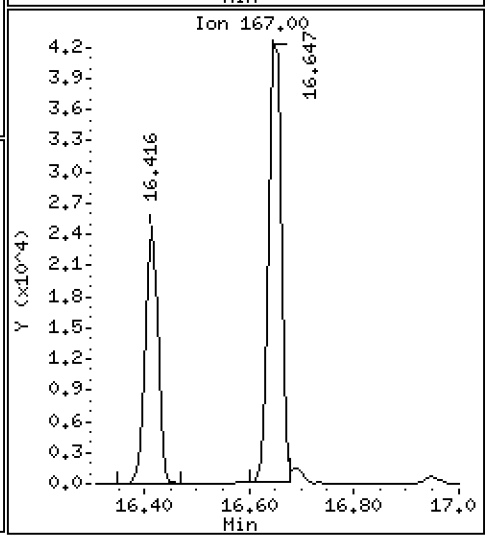












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123071.D

Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

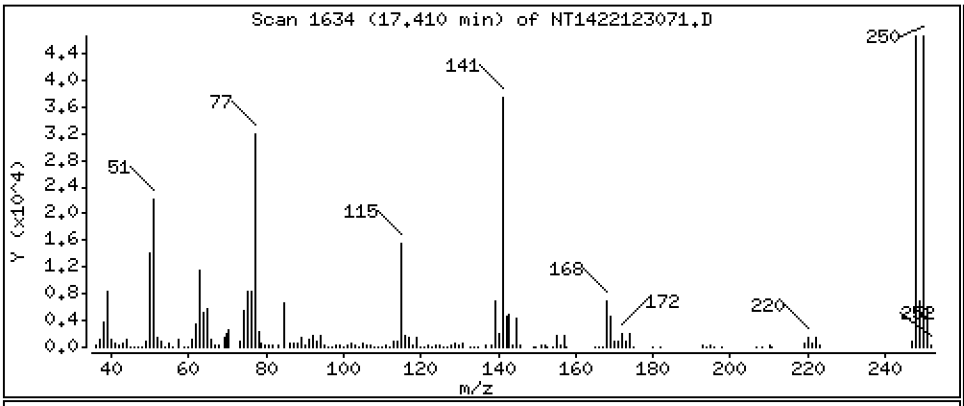
Operator: VTS

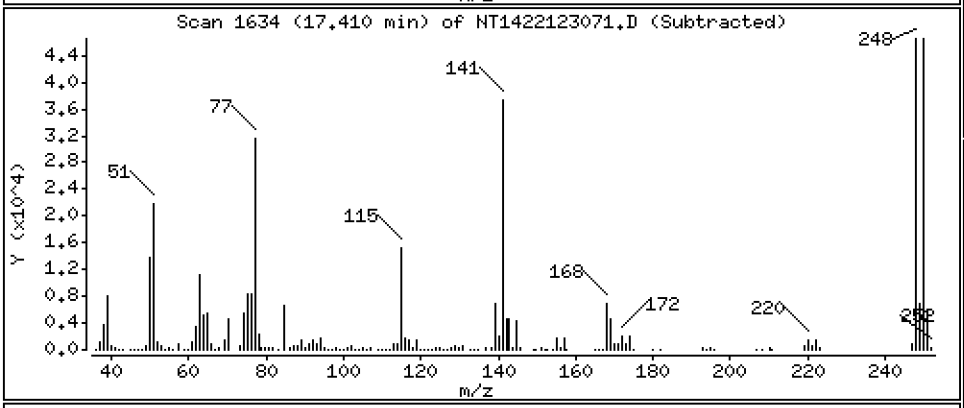
Column phase: ZB-5msi

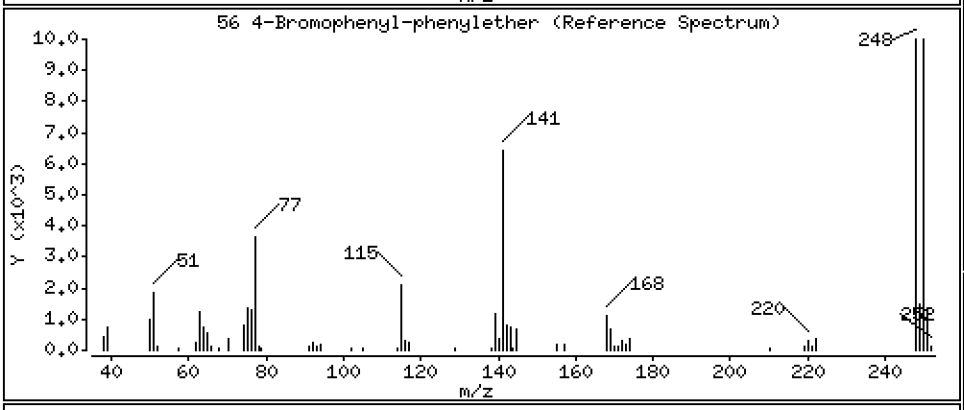
Column diameter: 0.25

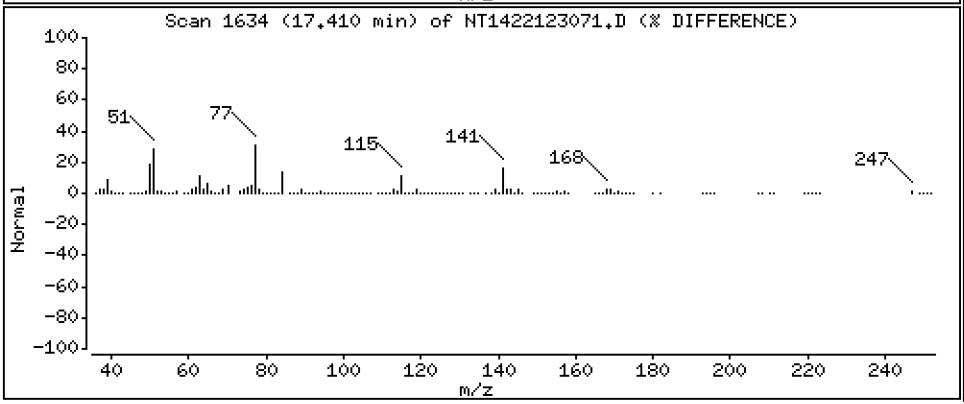
56 4-Bromophenyl-phenylether

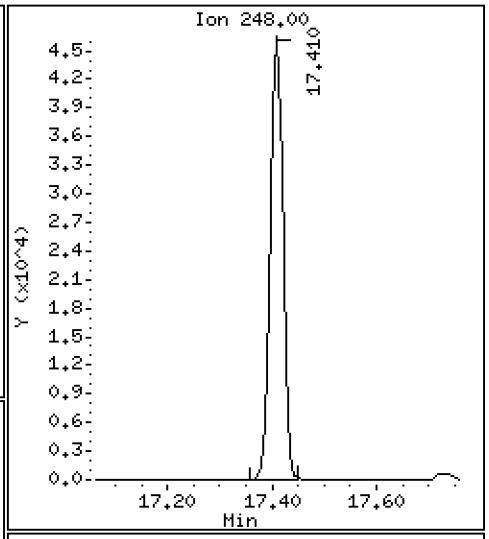
Concentration: 4.419 ug/mL

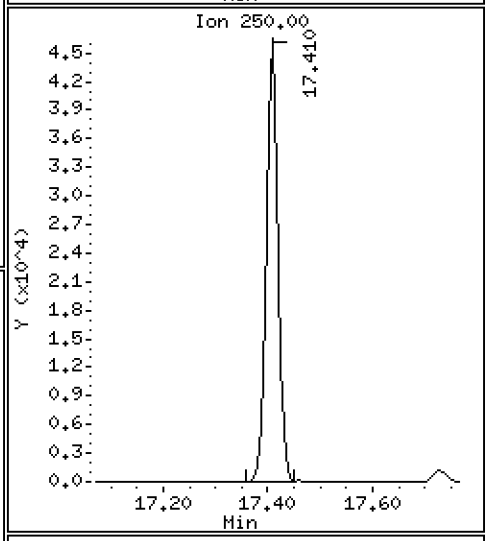


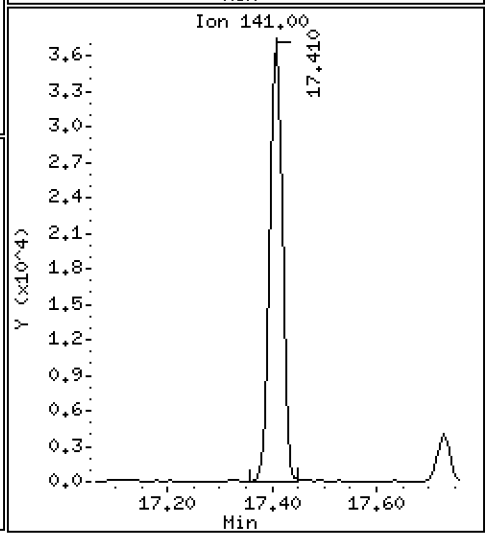












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

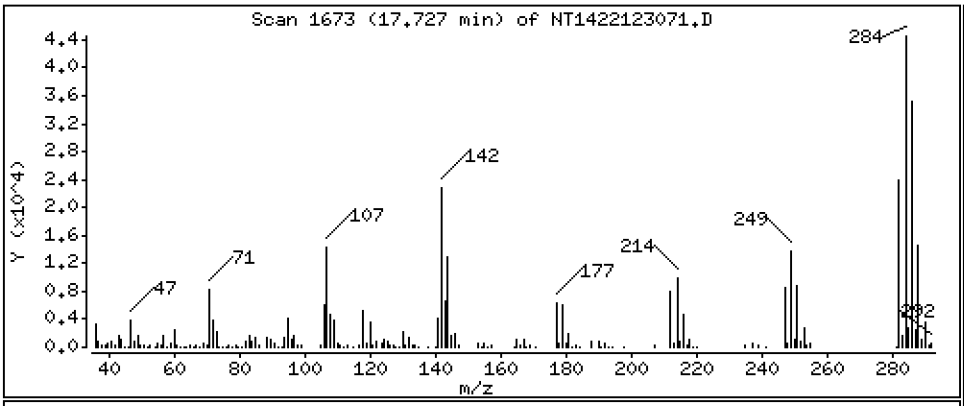
Operator: VTS

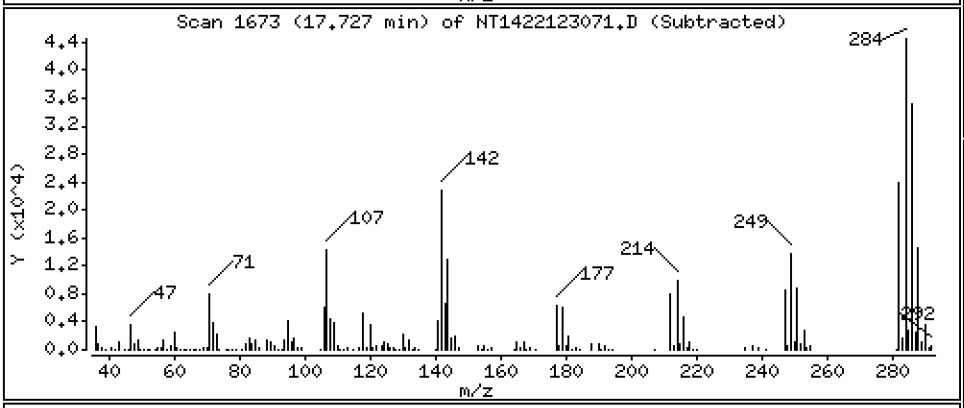
Column phase: ZB-5msi

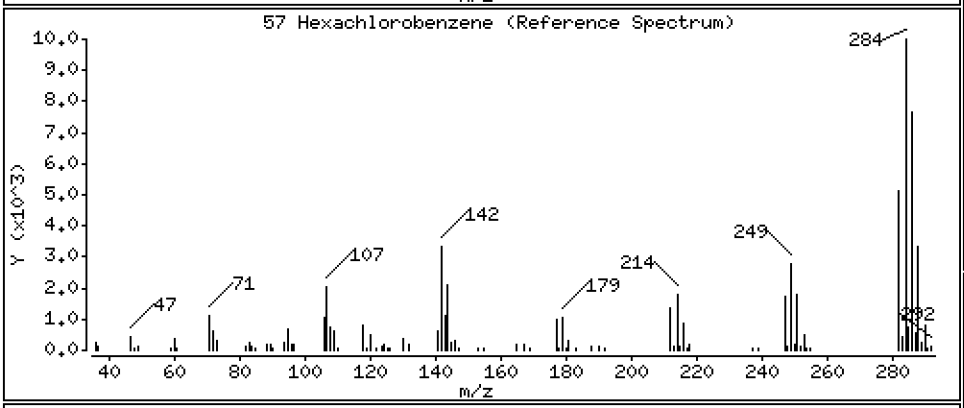
Column diameter: 0.25

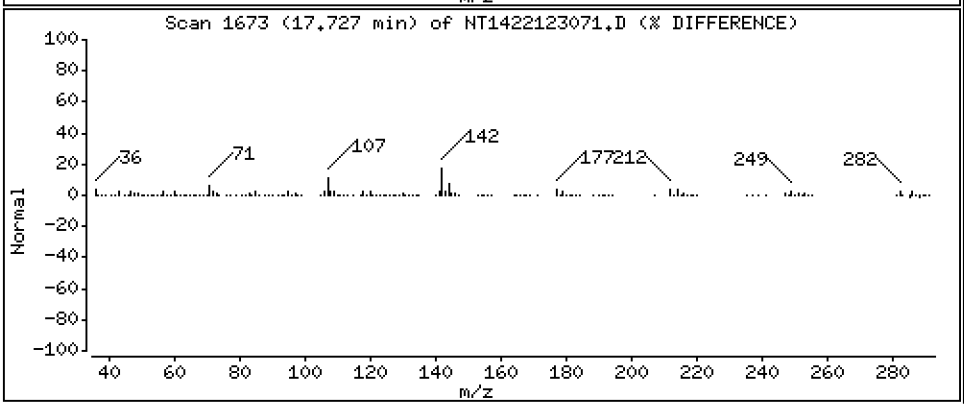
57 Hexachlorobenzene

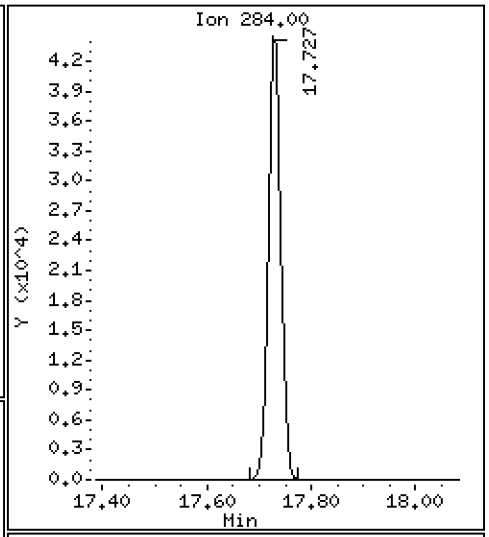
Concentration: 4.040 ug/mL

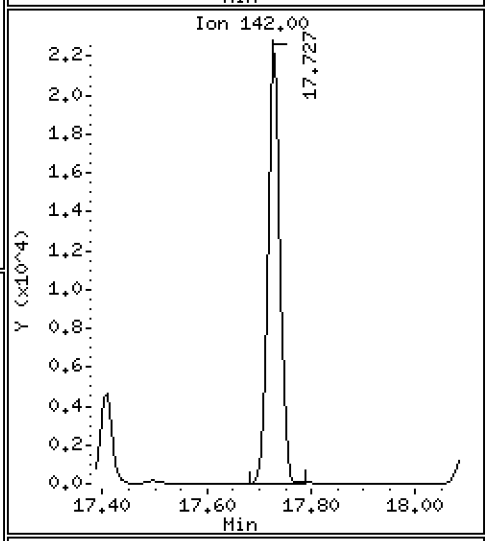


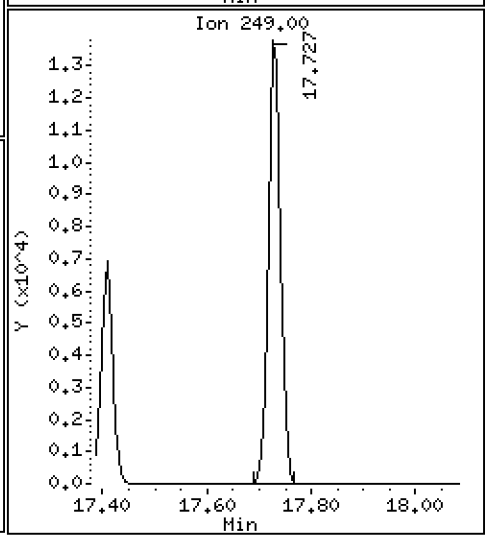












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

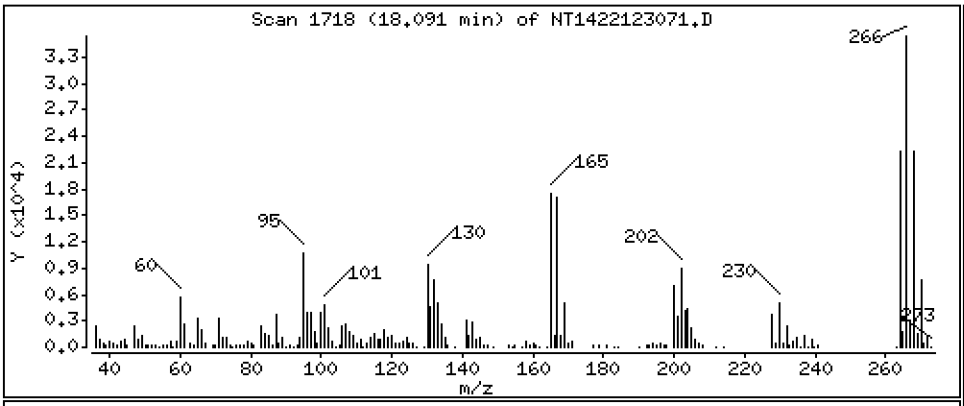
Operator: VTS

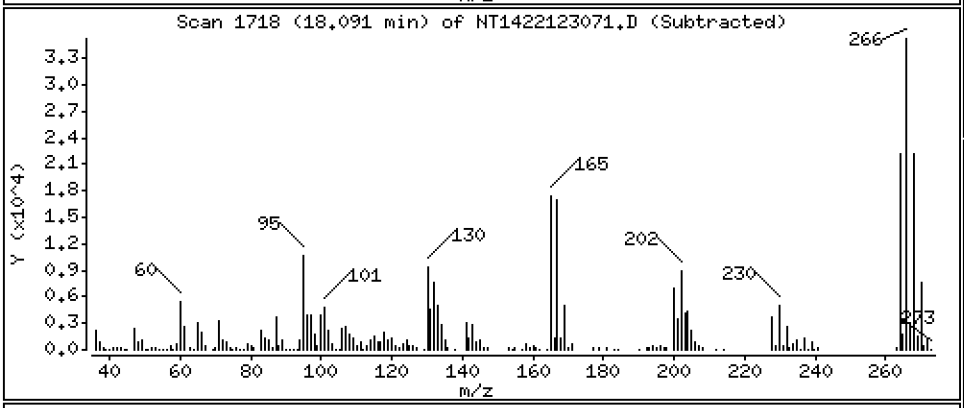
Column phase: ZB-5msi

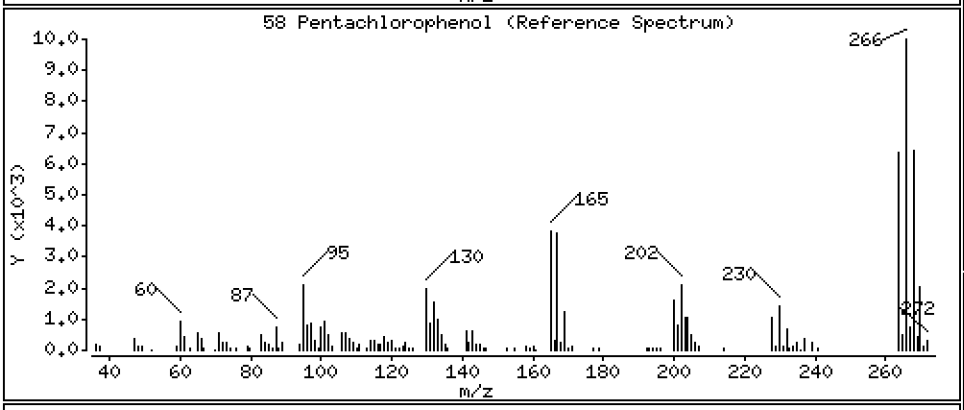
Column diameter: 0.25

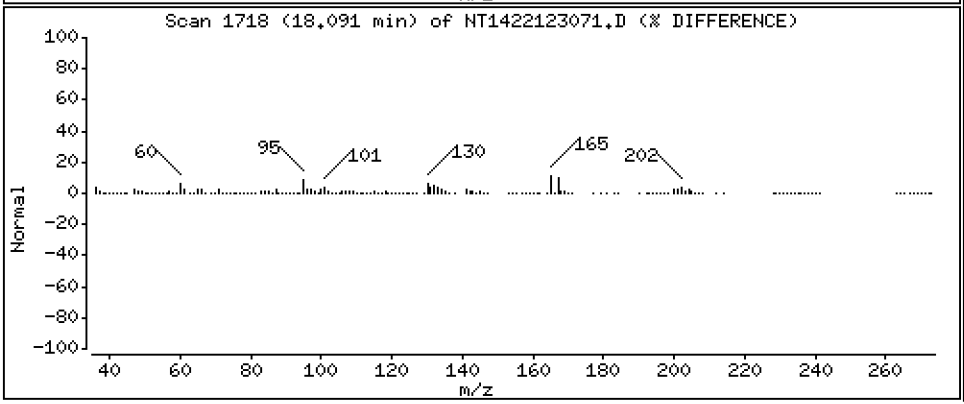
58 Pentachlorophenol

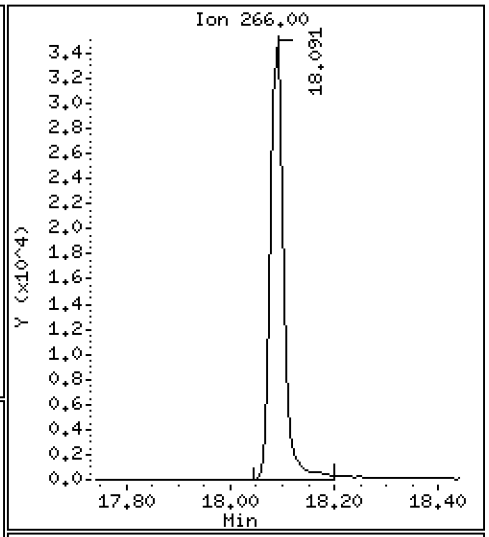
Concentration: 7.131 ug/mL

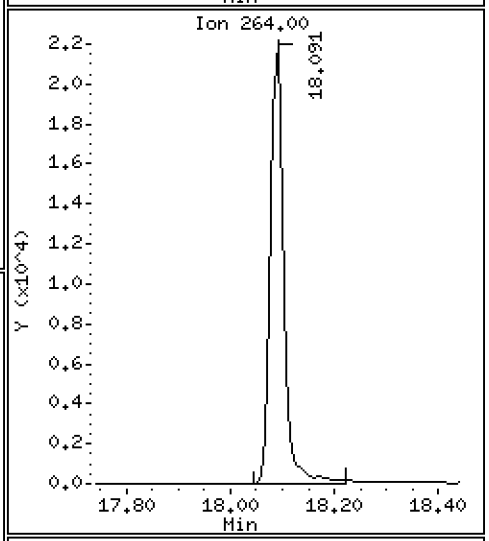


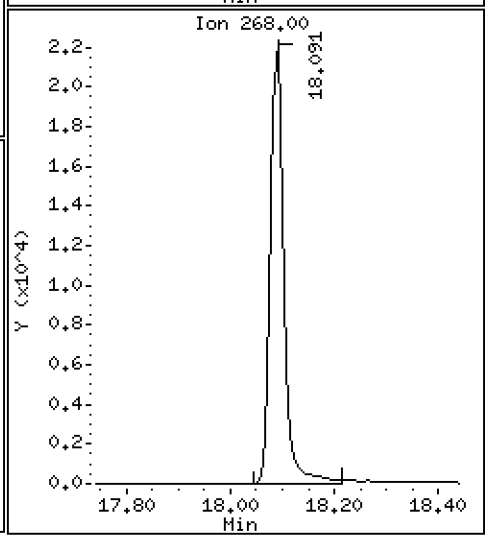












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

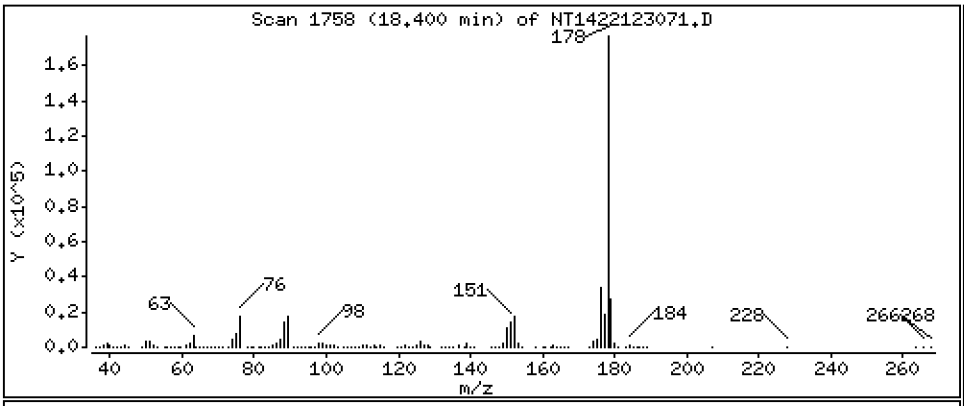
Operator: VTS

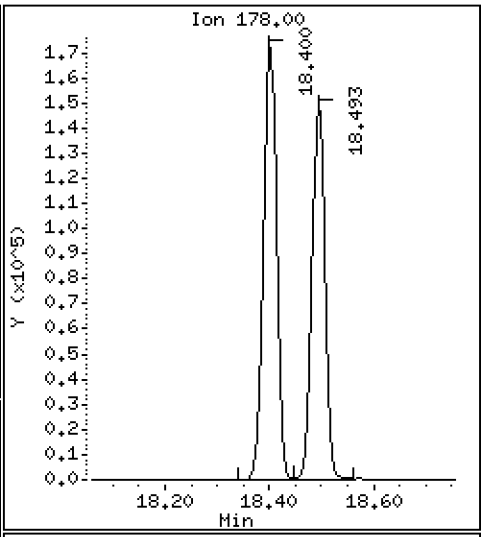
Column phase: ZB-5msi

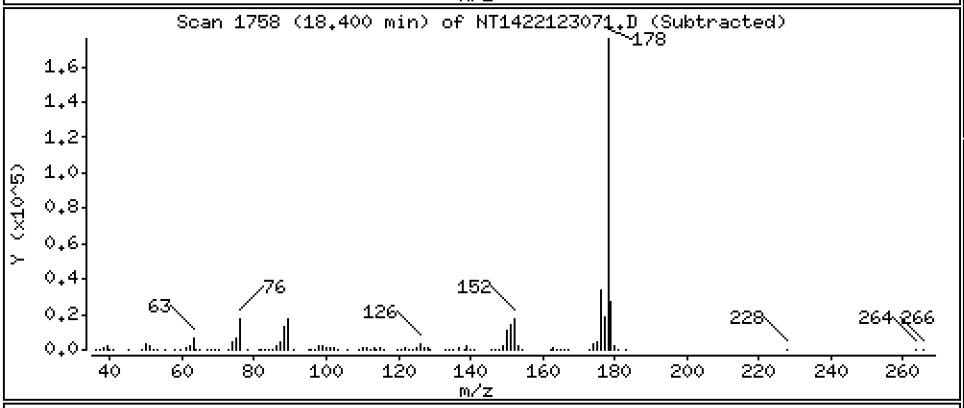
Column diameter: 0.25

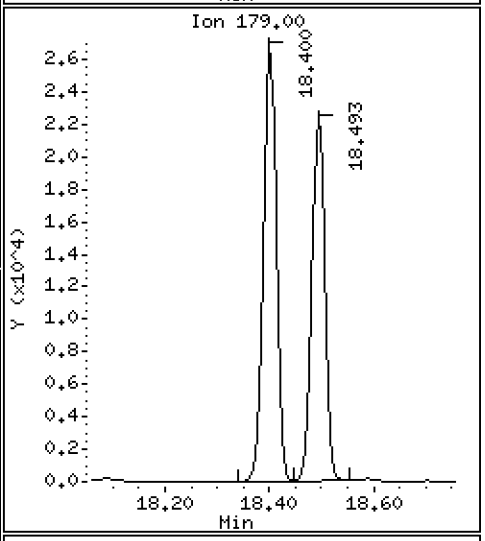
60 Phenanthrene

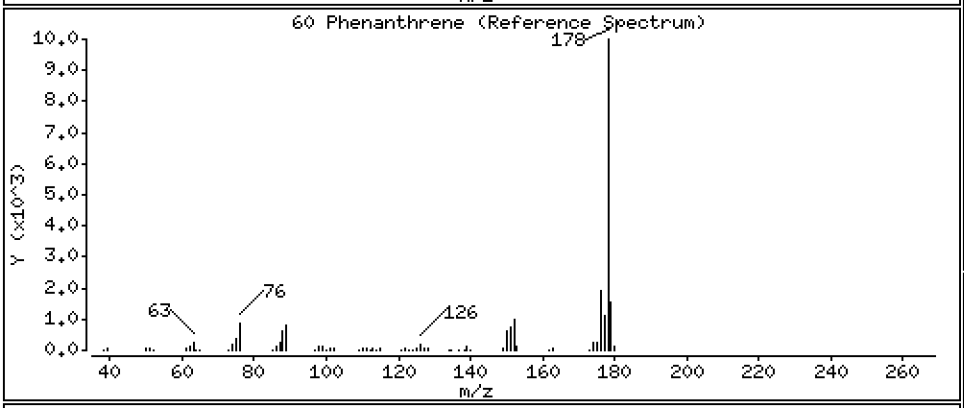
Concentration: 4.252 ug/mL

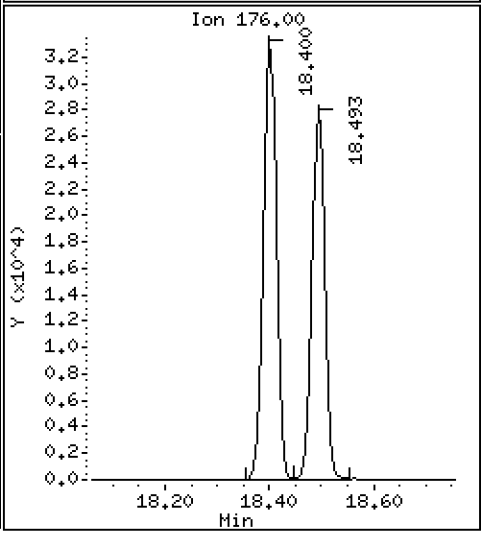


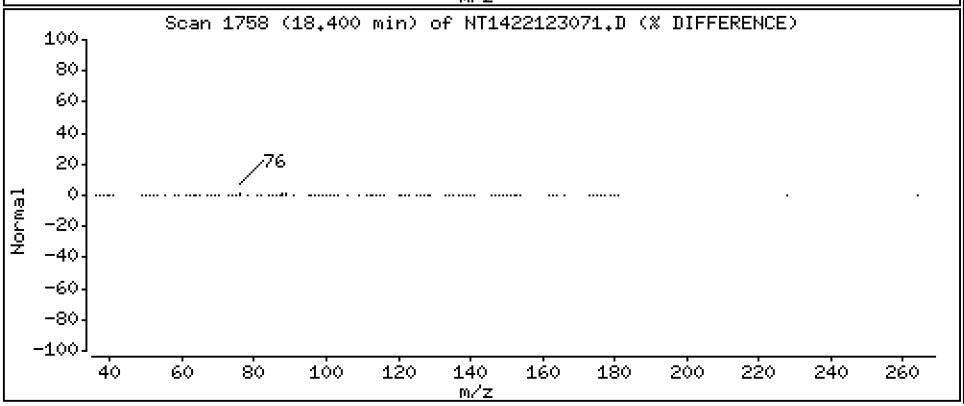












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

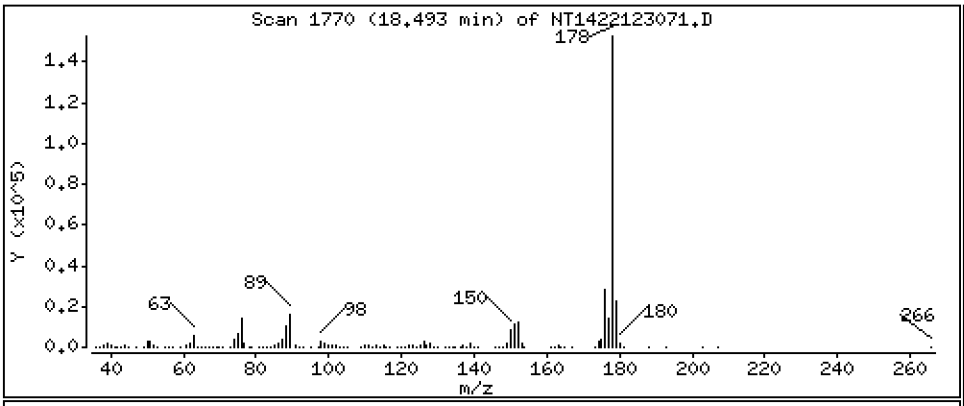
Operator: VTS

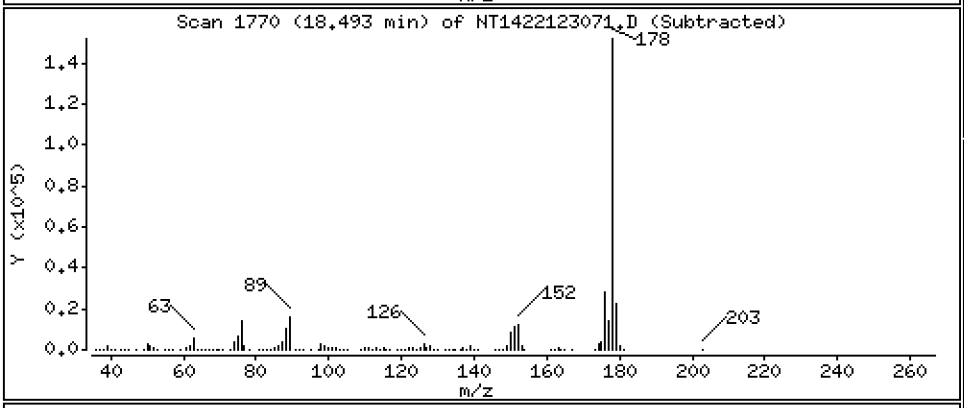
Column phase: ZB-5msi

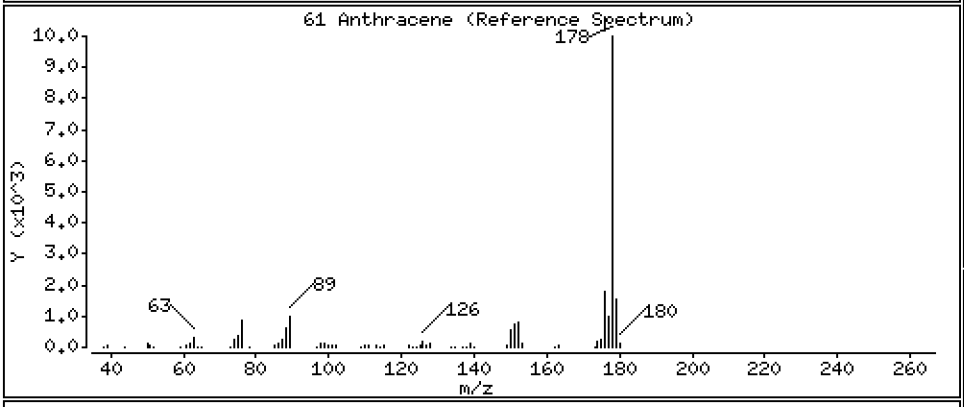
Column diameter: 0.25

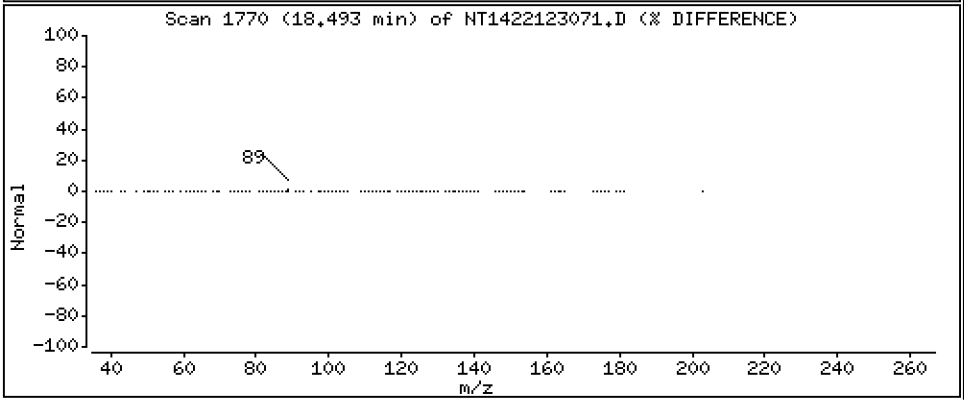
61 Anthracene

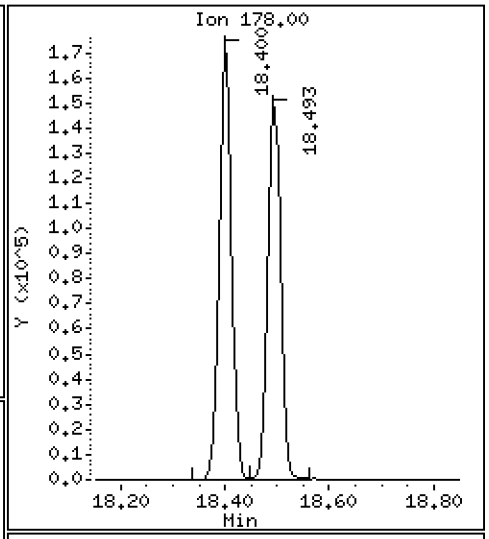
Concentration: 3.808 ug/mL

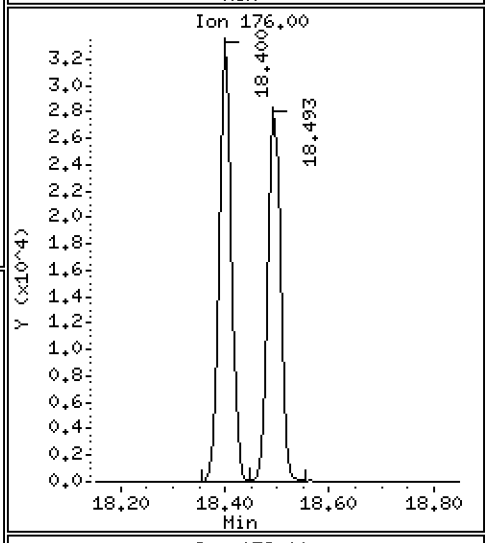


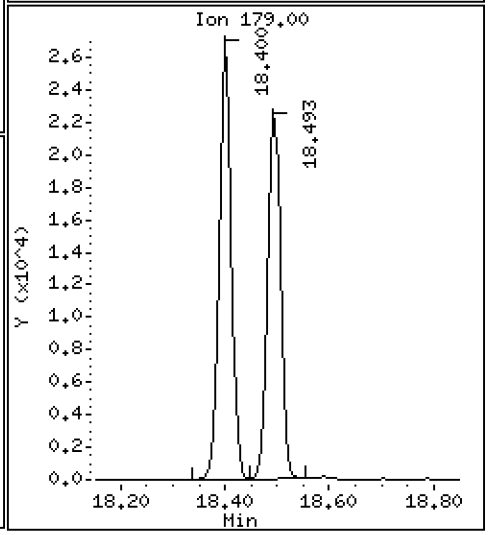












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

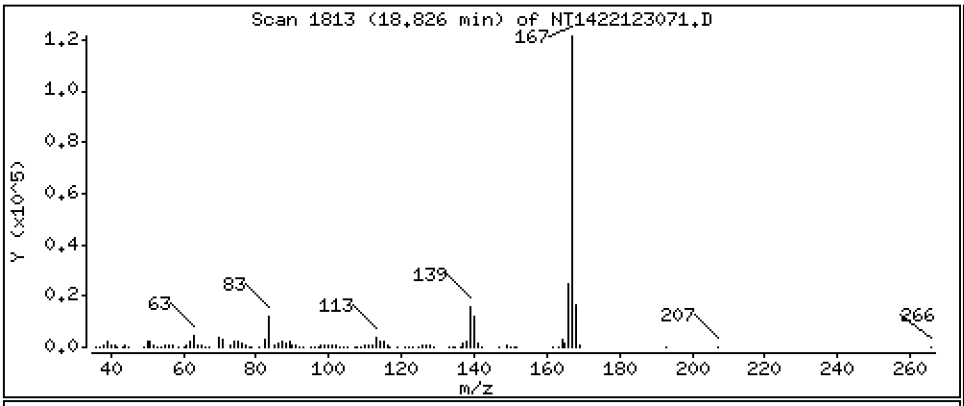
Operator: VTS

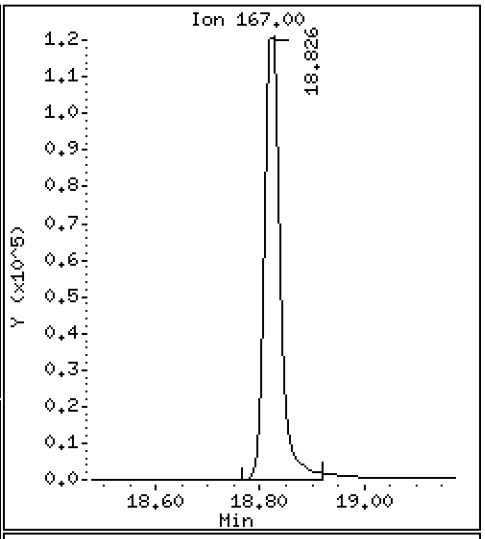
Column phase: ZB-5msi

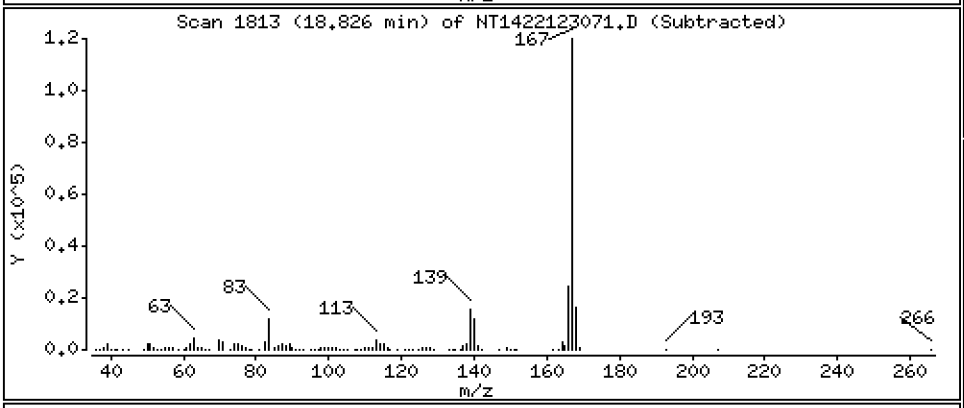
Column diameter: 0.25

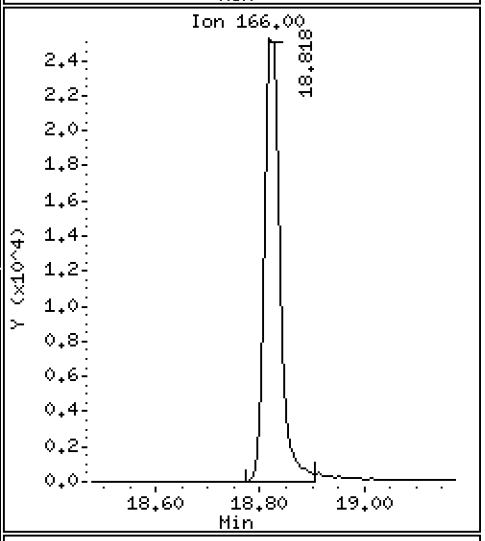
62 Carbazole

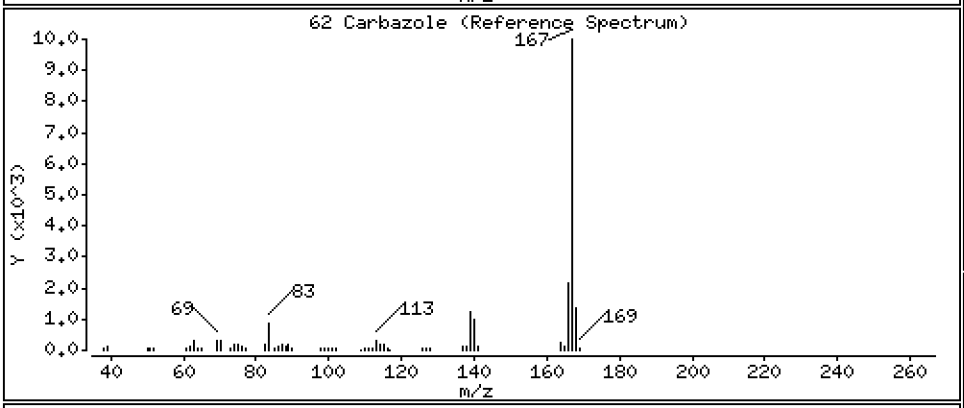
Concentration: 3.948 ug/mL

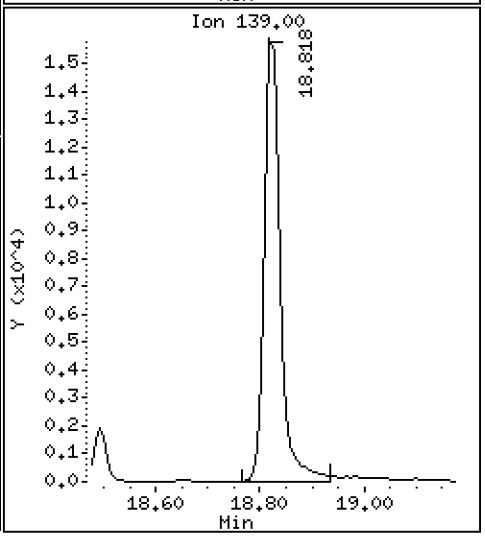


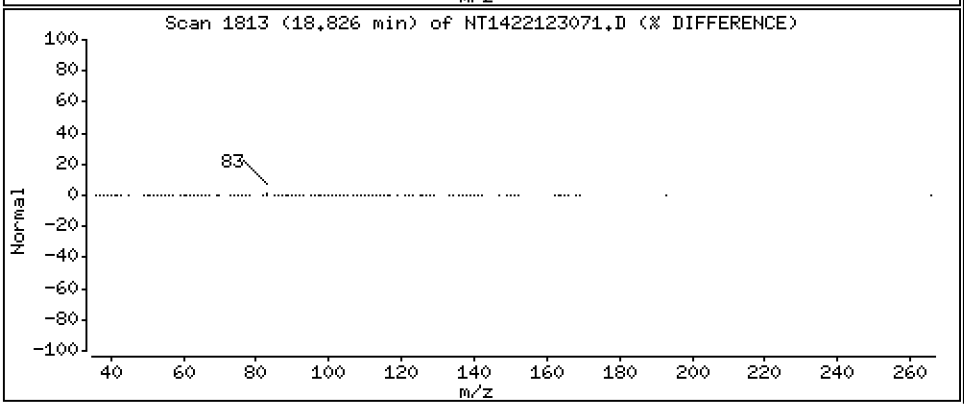












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

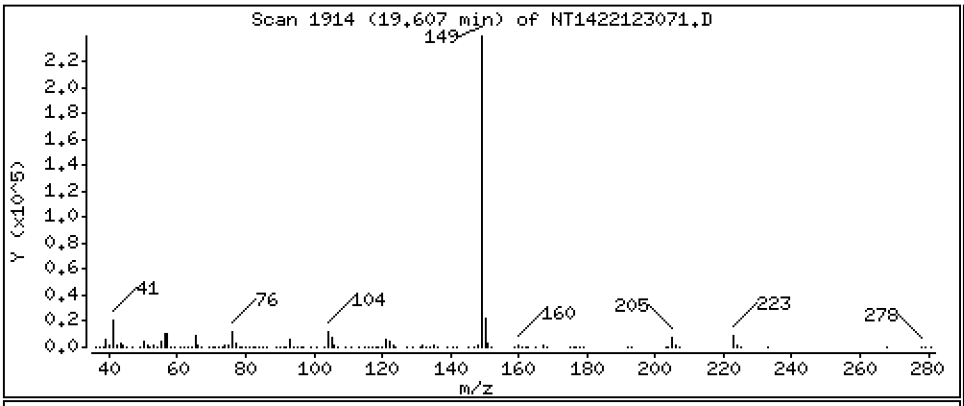
Operator: VTS

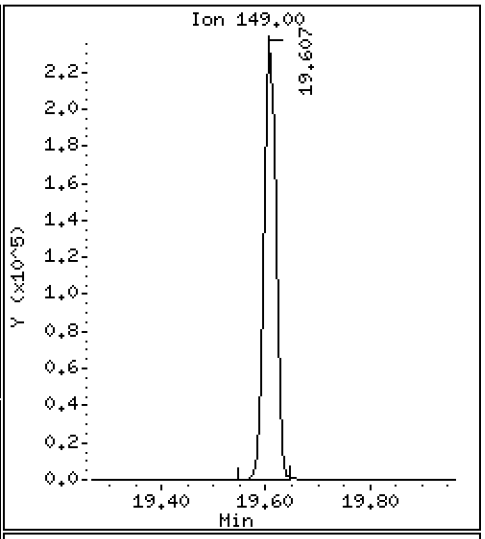
Column phase: ZB-5msi

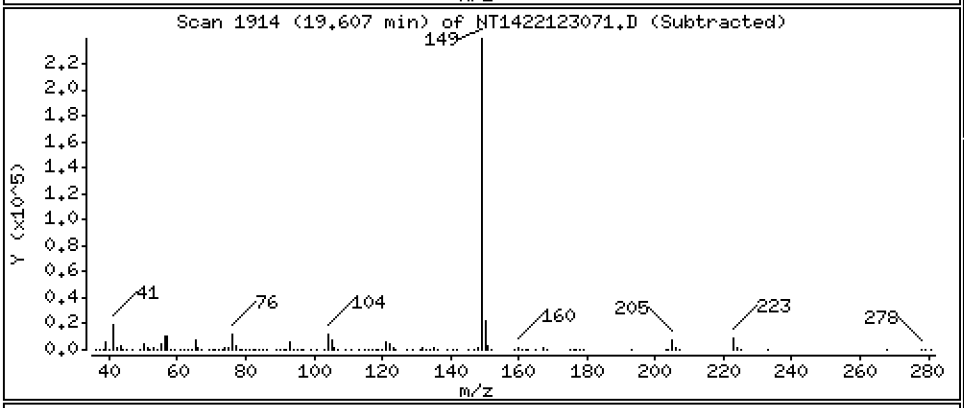
Column diameter: 0.25

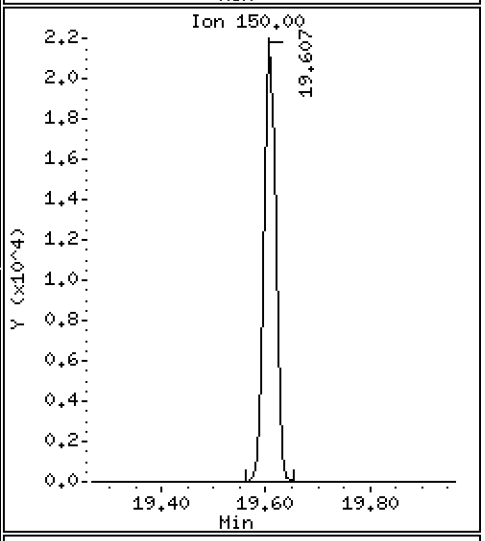
63 Di-n-butylphthalate

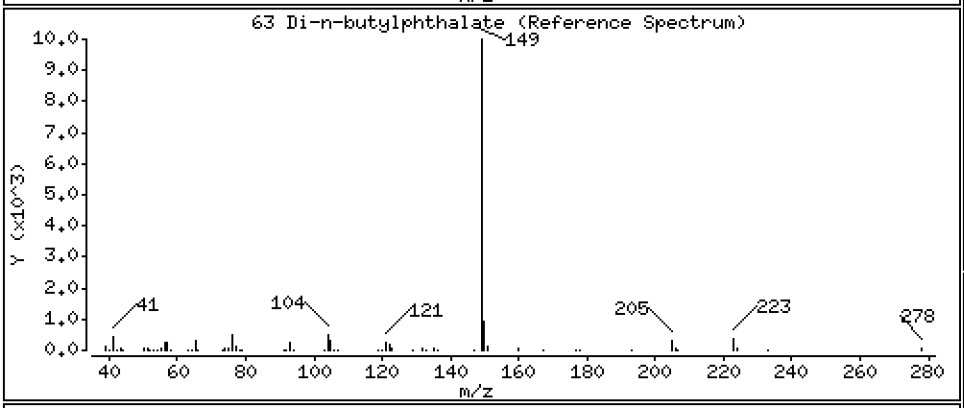
Concentration: 4.847 ug/mL

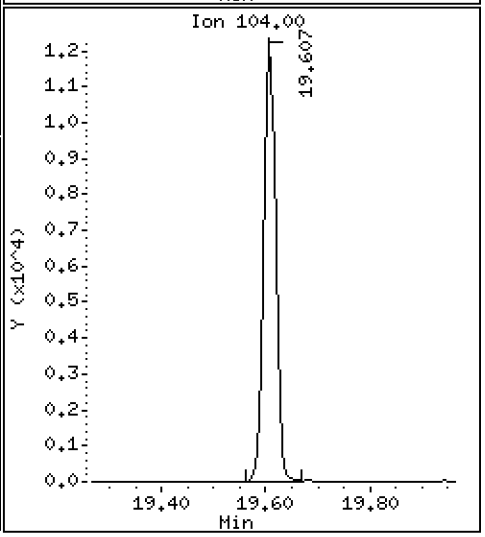


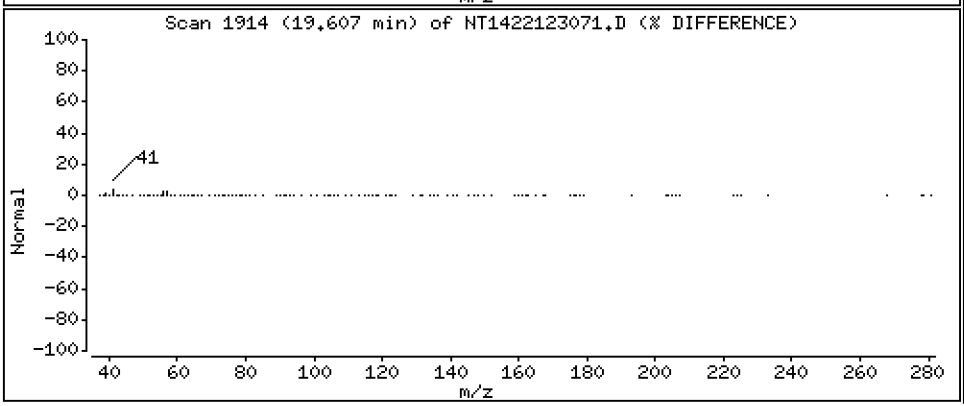












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123071.D

Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

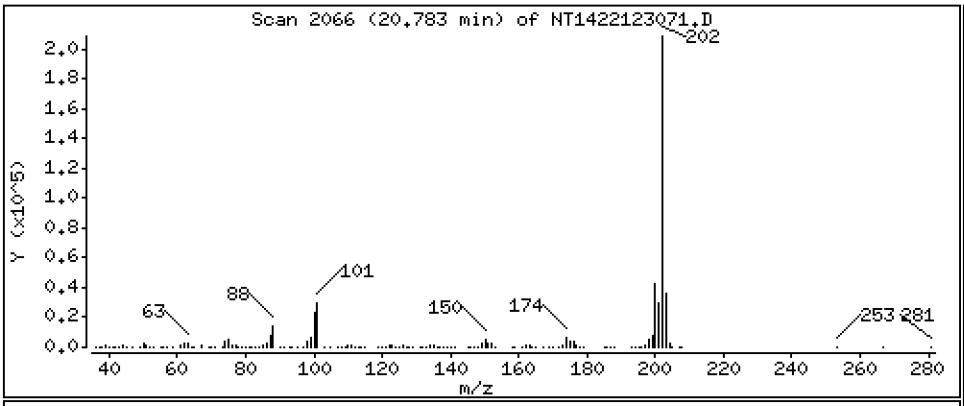
Operator: VTS

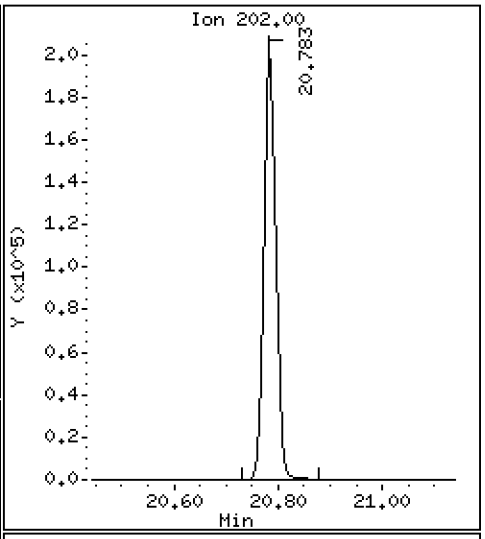
Column phase: ZB-5msi

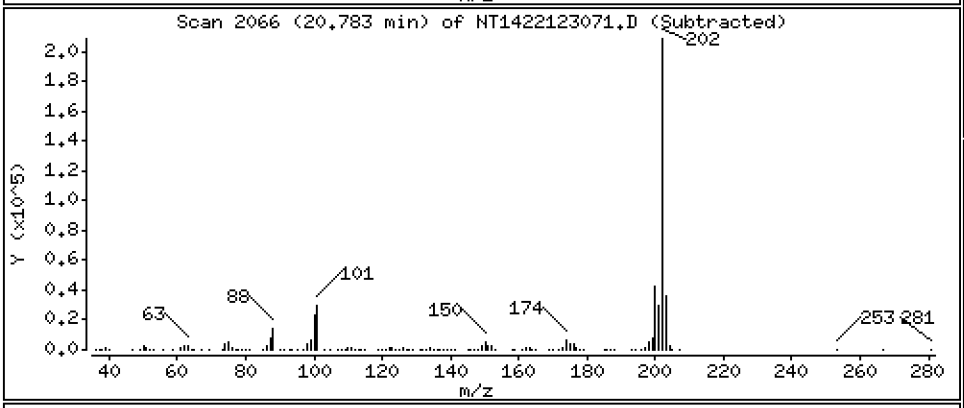
Column diameter: 0.25

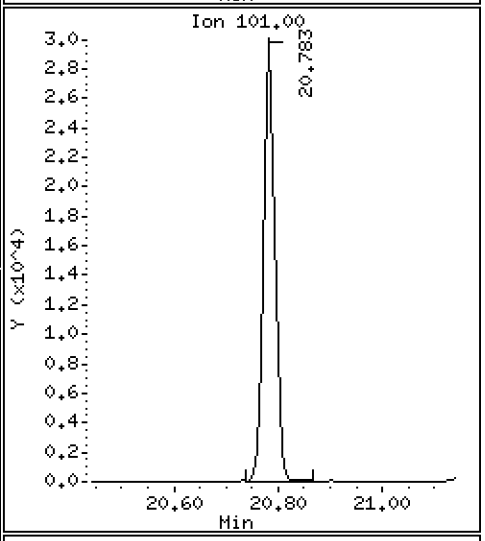
64 Fluoranthene

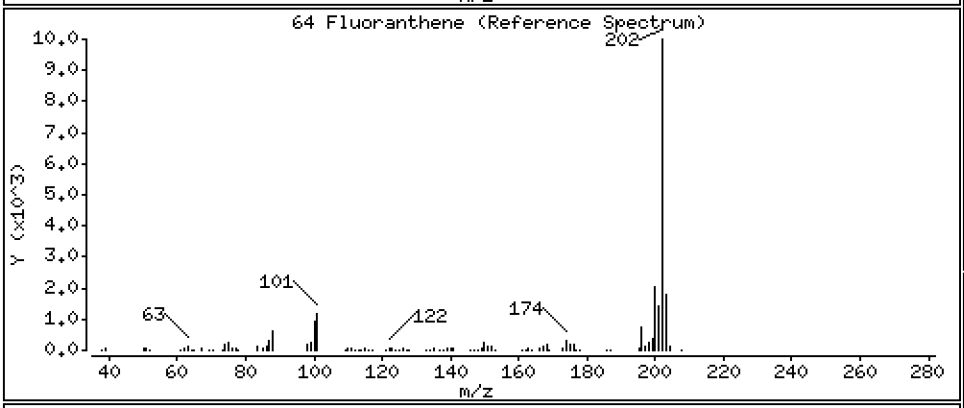
Concentration: 4.545 ug/mL

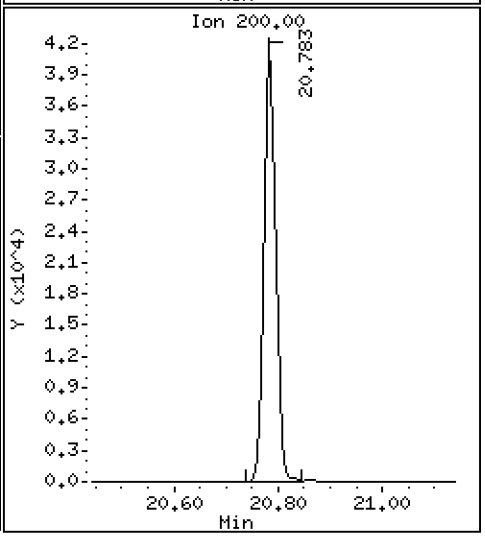


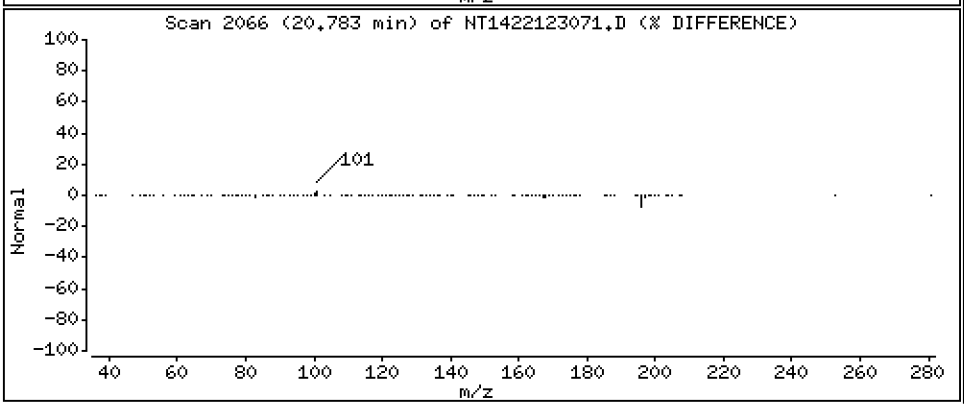












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

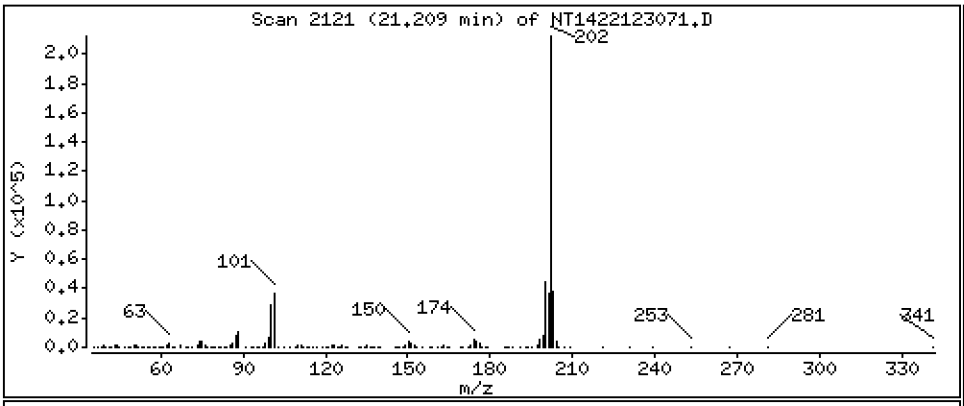
Operator: VTS

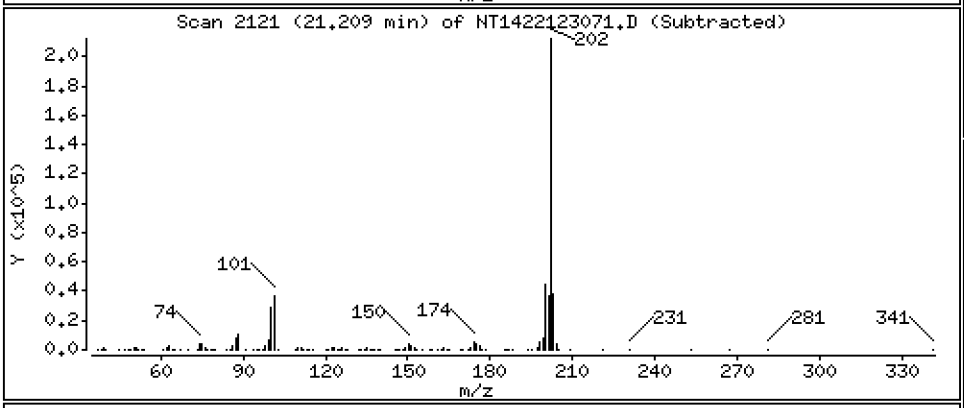
Column phase: ZB-5msi

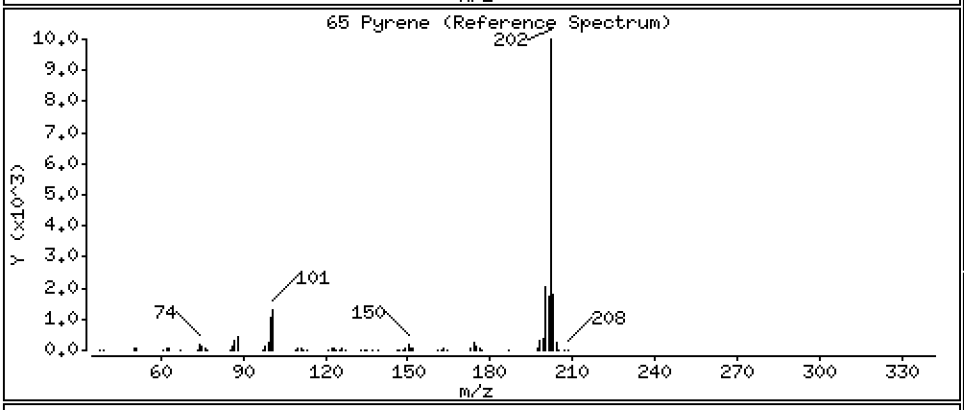
Column diameter: 0.25

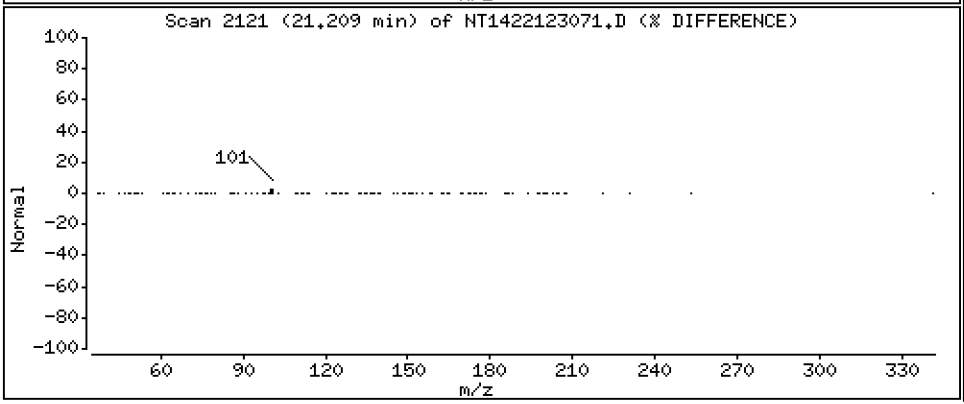
65 Pyrene

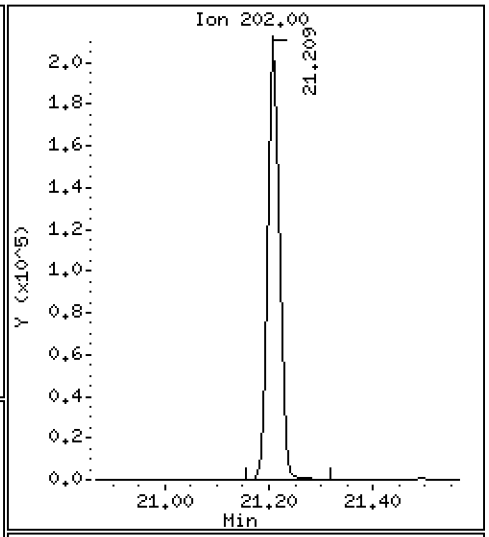
Concentration: 4.449 ug/mL

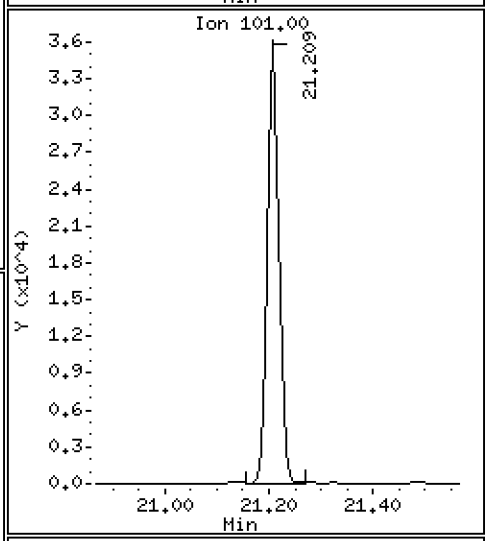


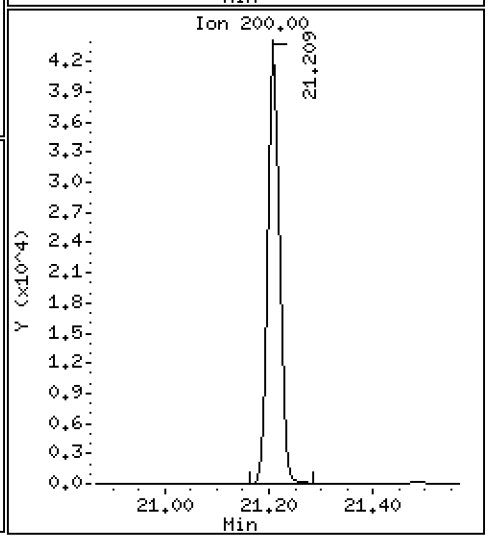












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123071.D

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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

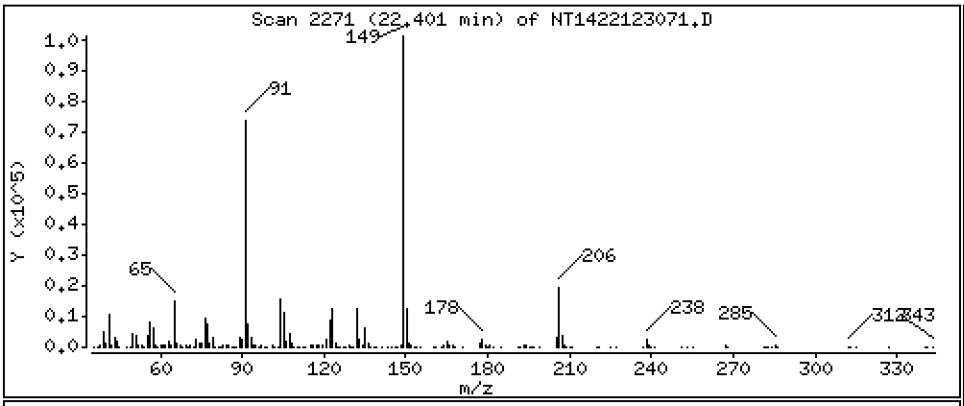
Operator: VTS

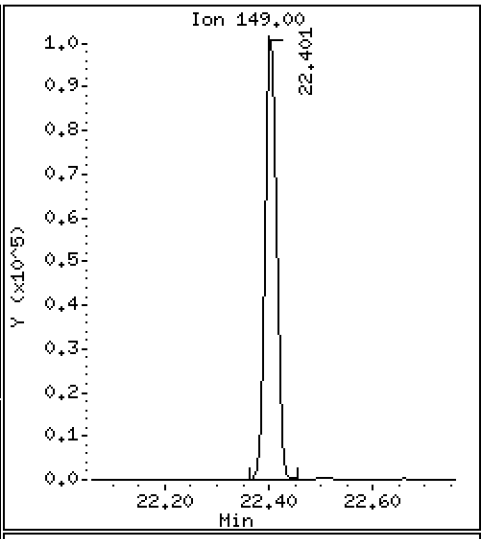
Column phase: ZB-5msi

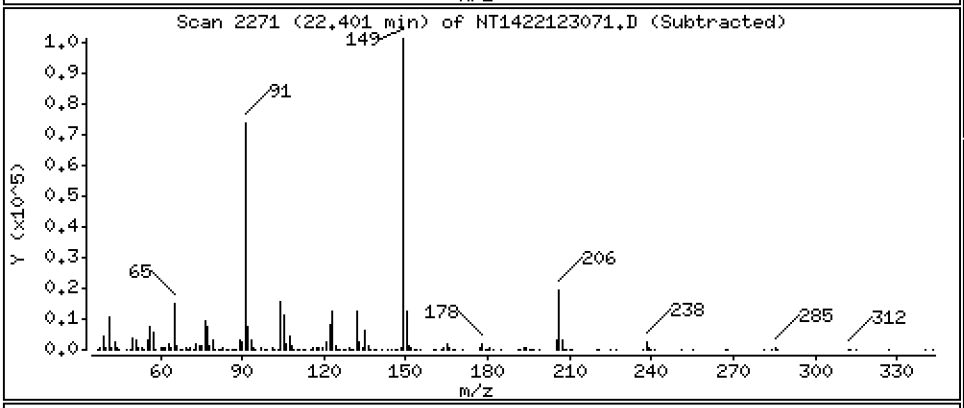
Column diameter: 0.25

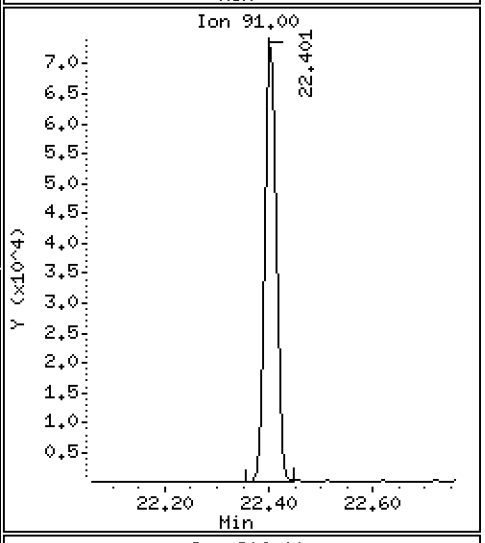
67 Butylbenzylphthalate

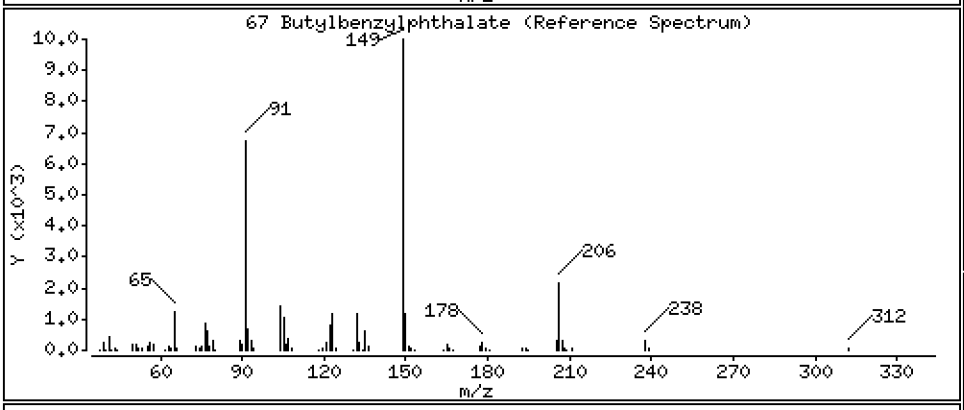
Concentration: 5.335 ug/mL

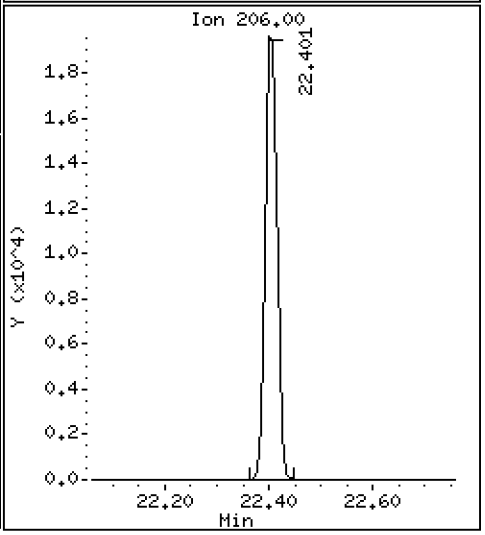


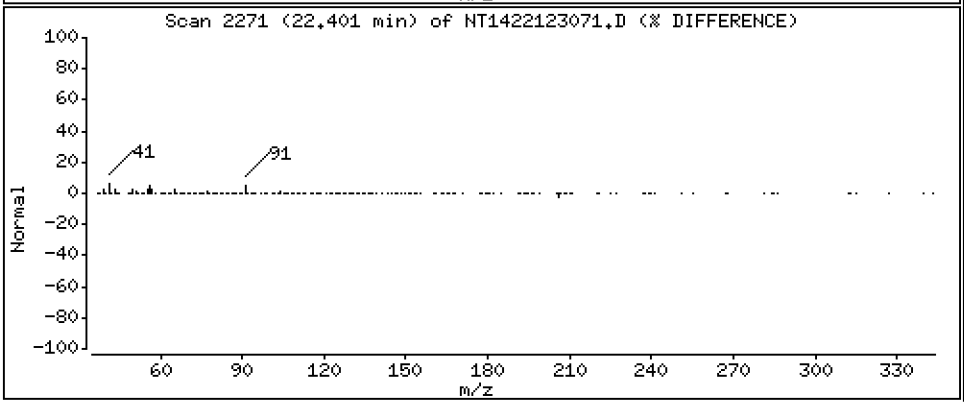












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123071.D

Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

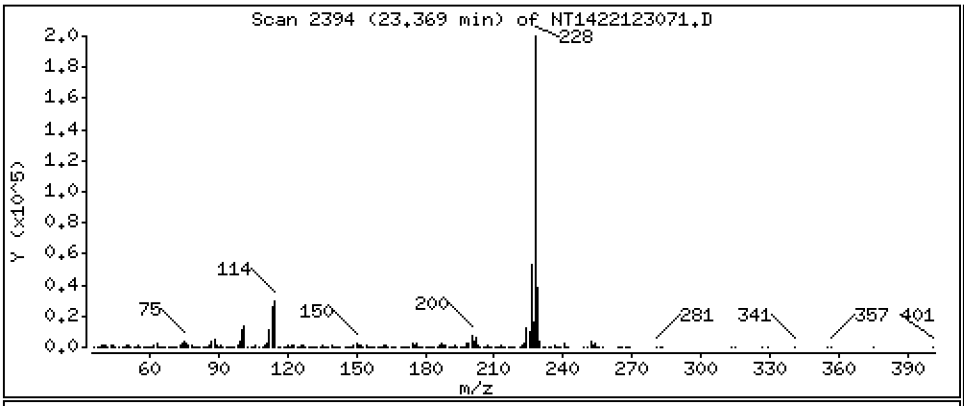
Operator: VTS

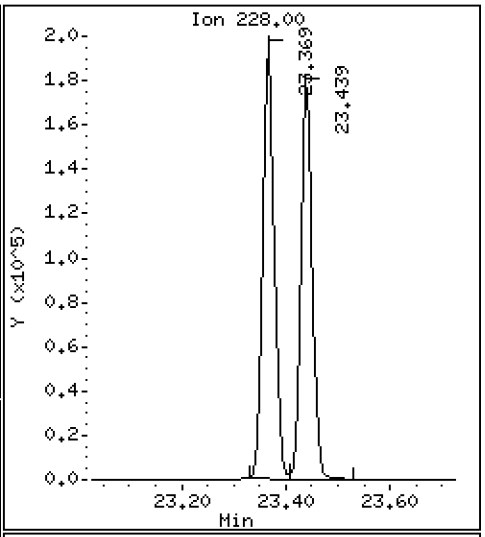
Column phase: ZB-5msi

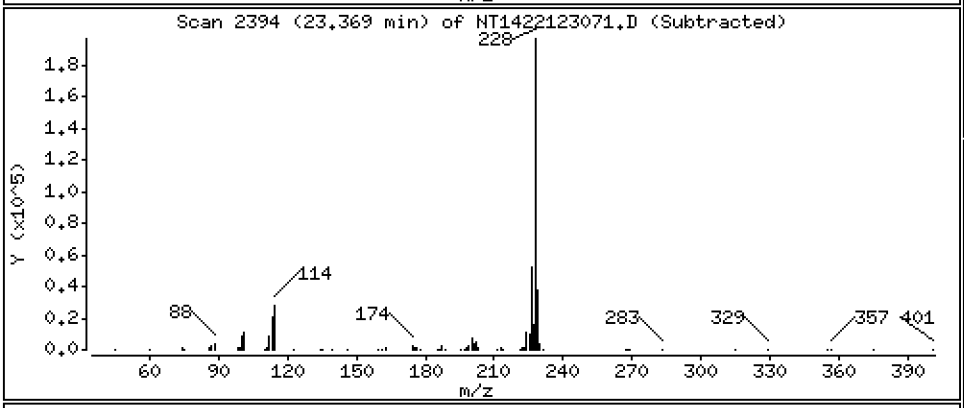
Column diameter: 0.25

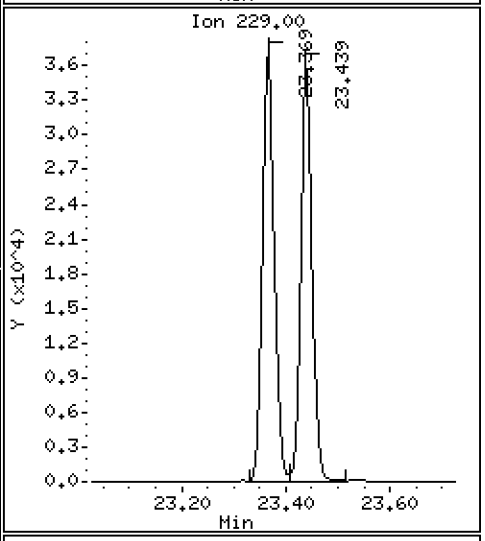
68 Benzo(a)anthracene

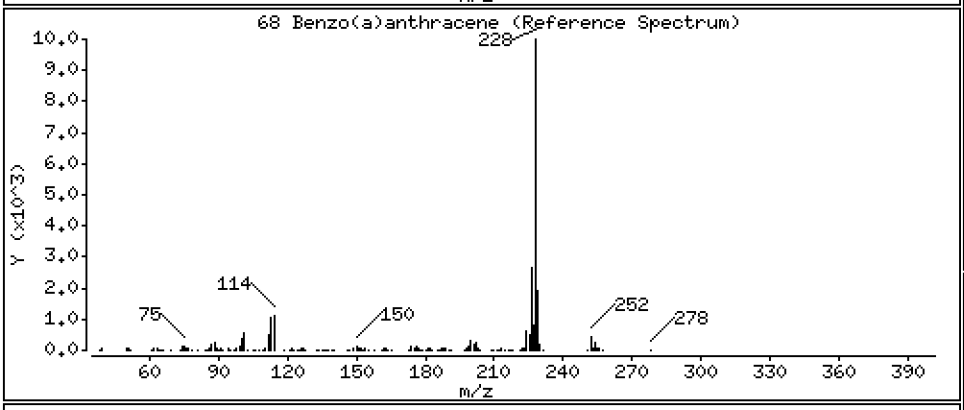
Concentration: 4.562 ug/mL

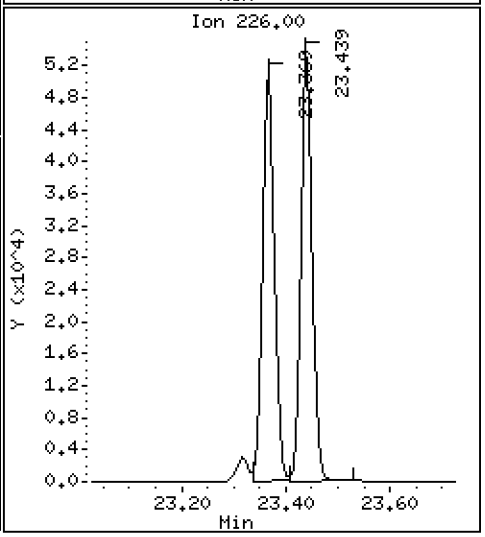


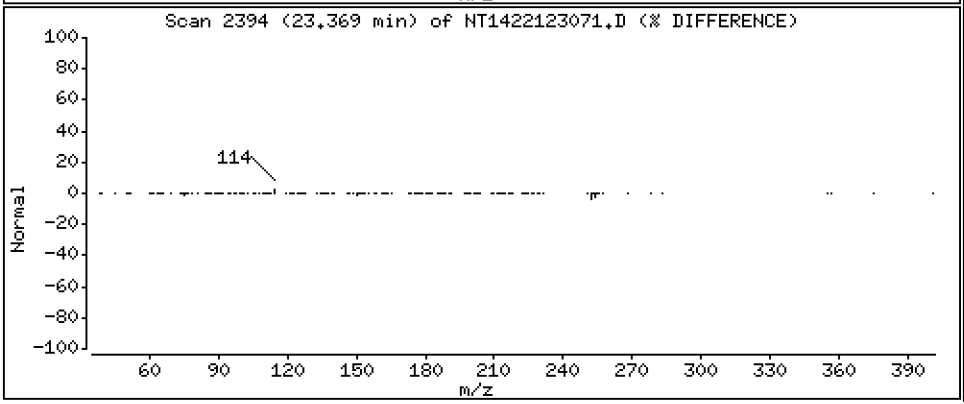












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

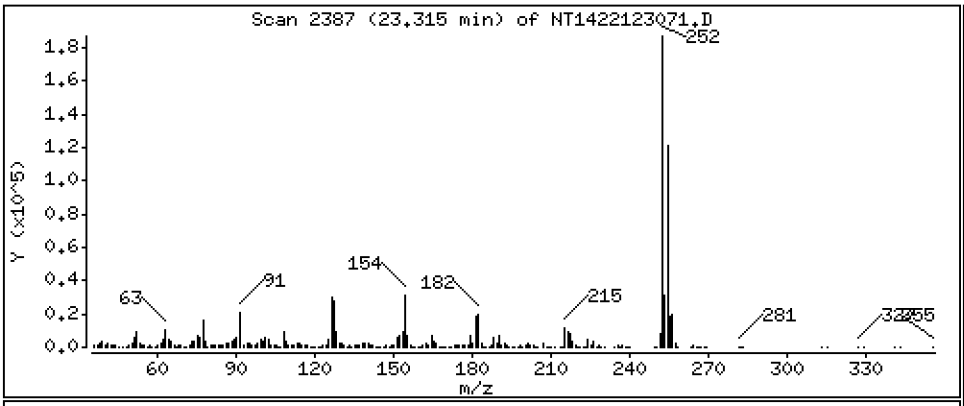
Operator: VTS

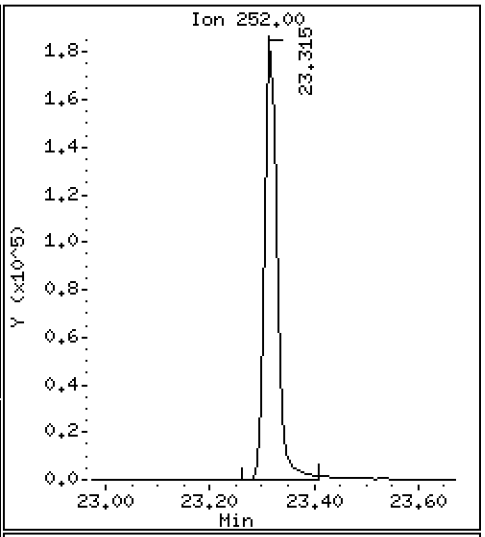
Column phase: ZB-5msi

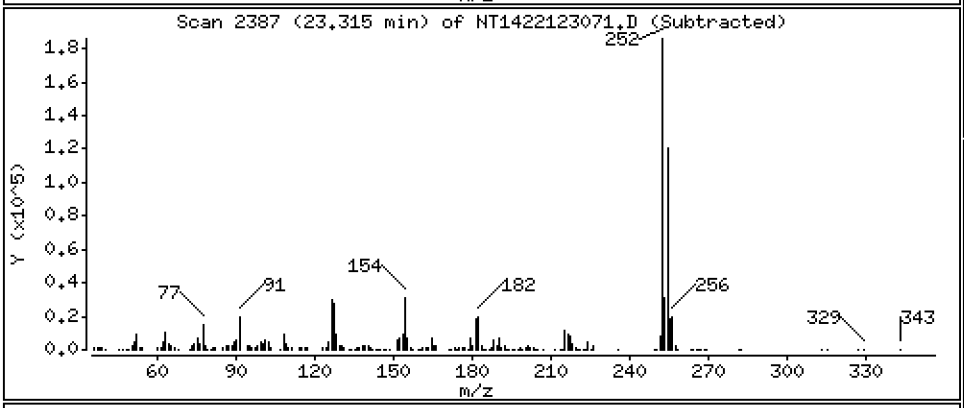
Column diameter: 0.25

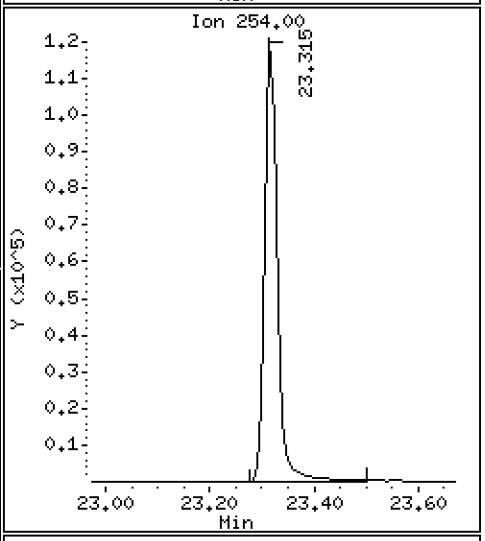
70 3,3'-Dichlorobenzidine

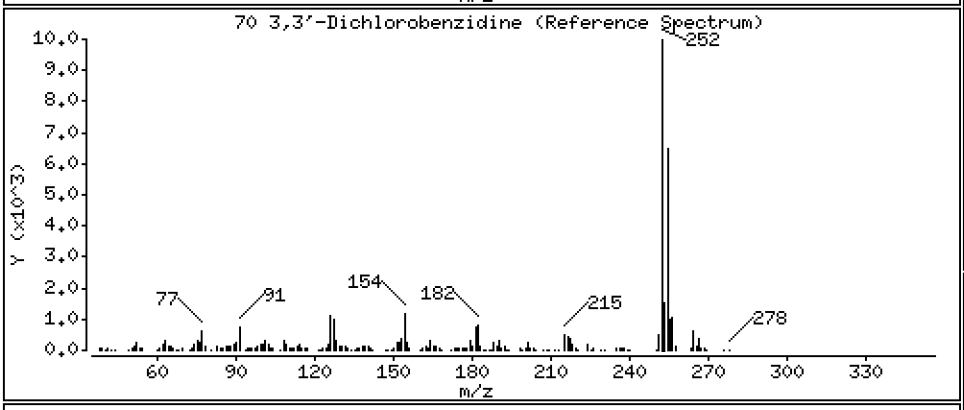
Concentration: 14.77 ug/mL

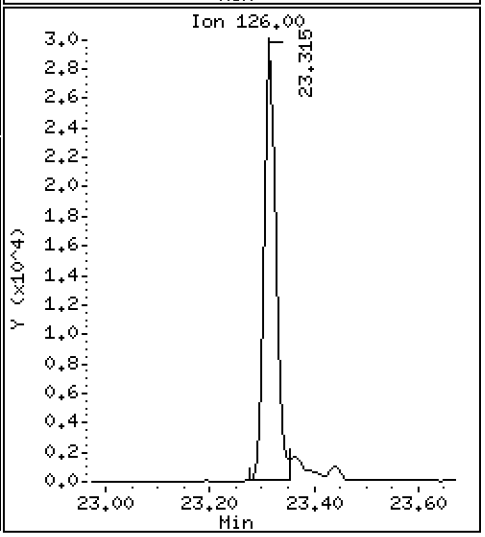


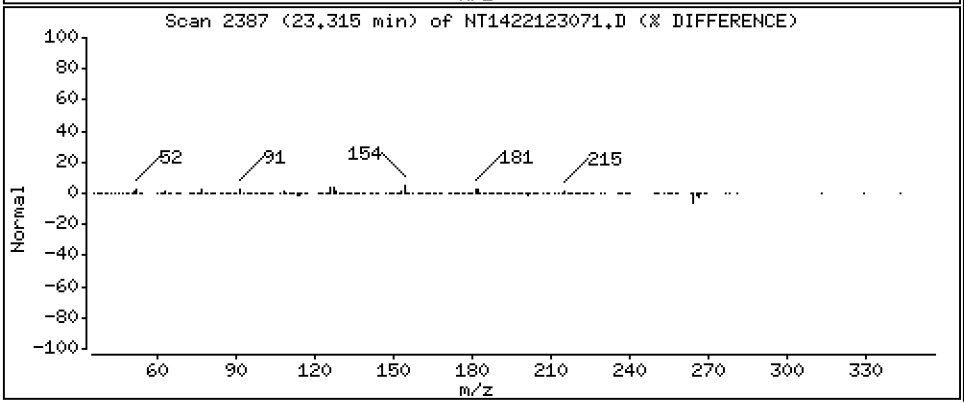












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

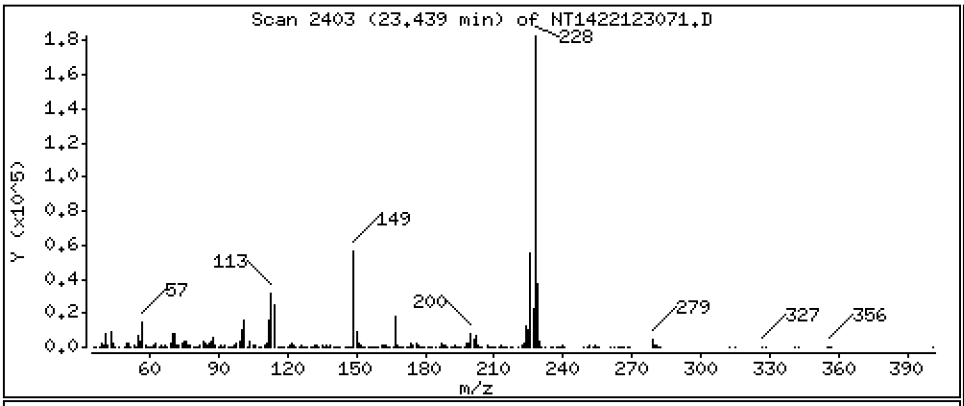
Operator: VTS

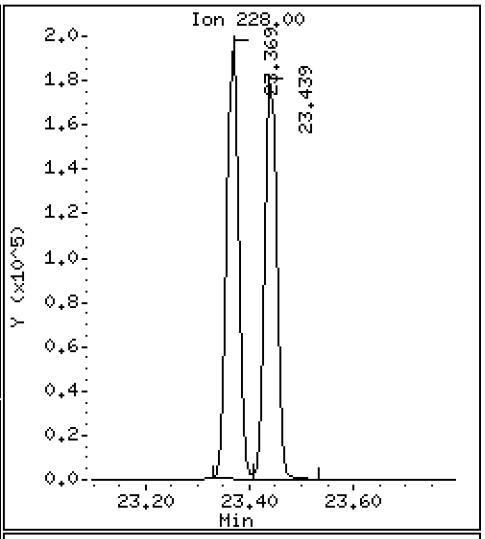
Column phase: ZB-5msi

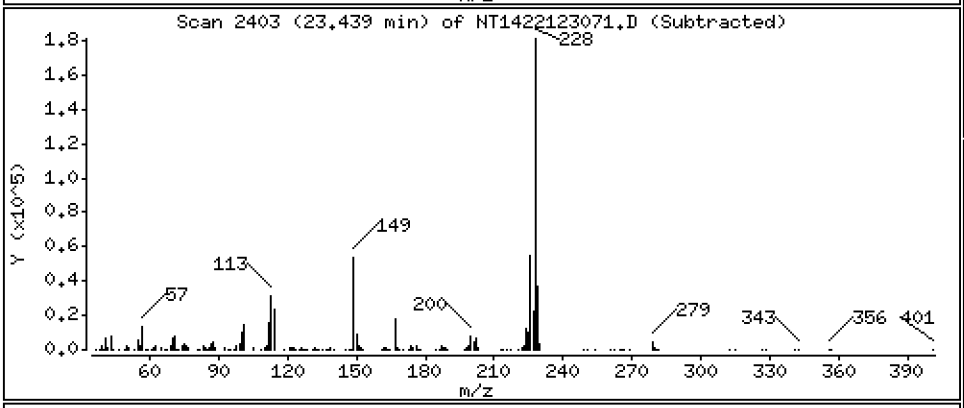
Column diameter: 0.25

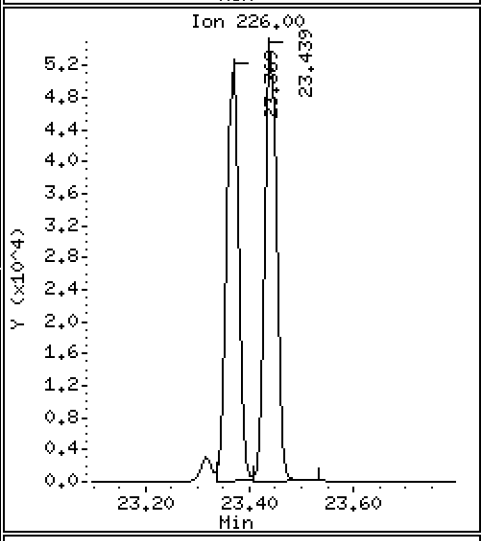
71 Chrysene

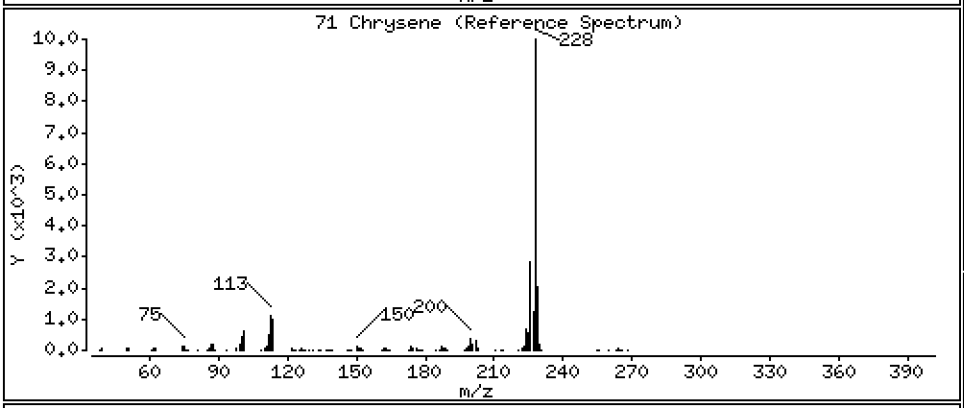
Concentration: 4.479 ug/mL

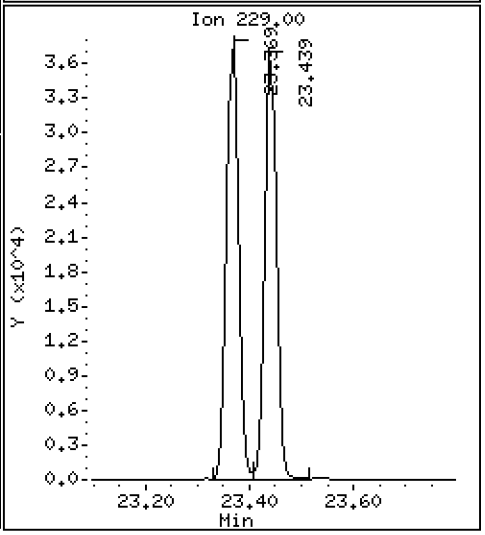


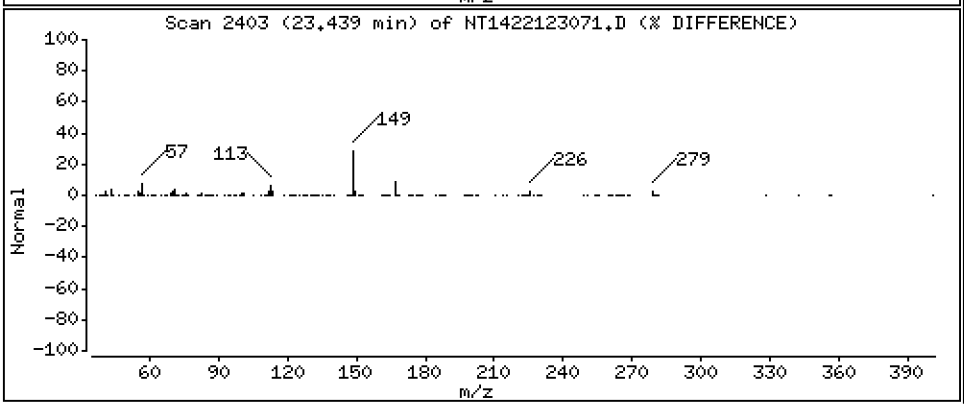












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

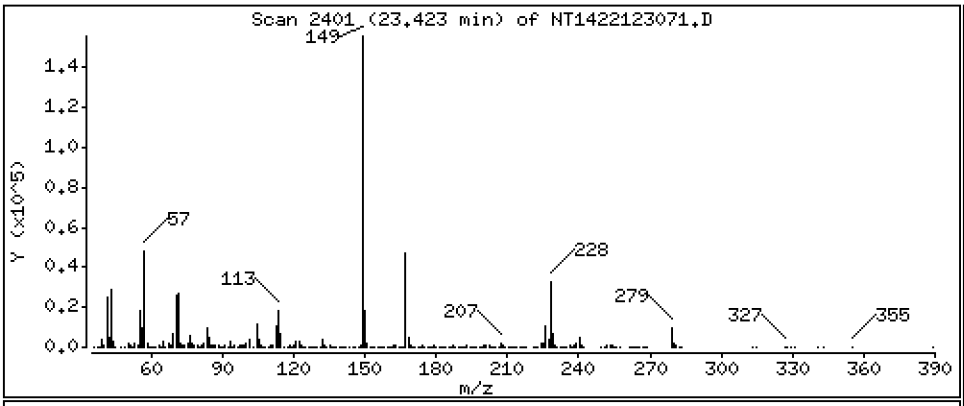
Operator: VTS

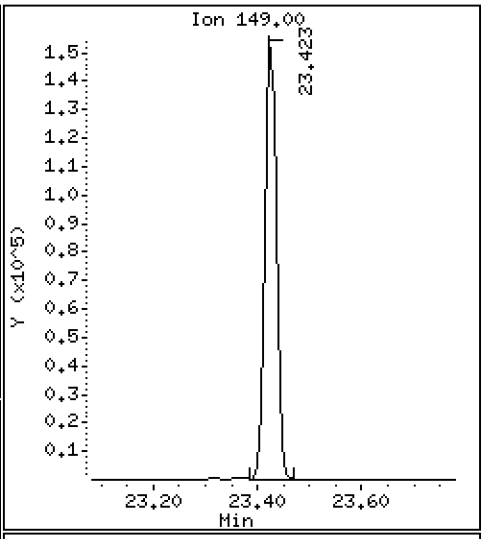
Column phase: ZB-5msi

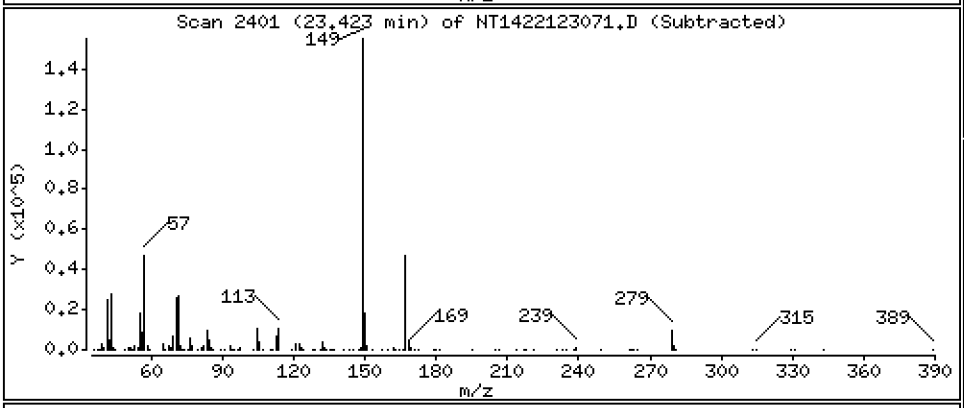
Column diameter: 0.25

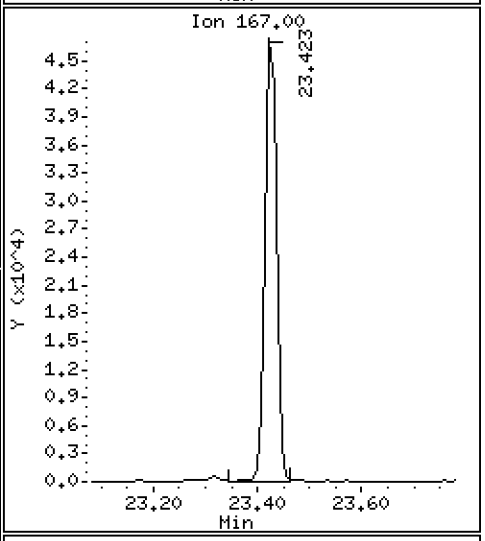
72 bis(2-Ethylhexyl)phthalate

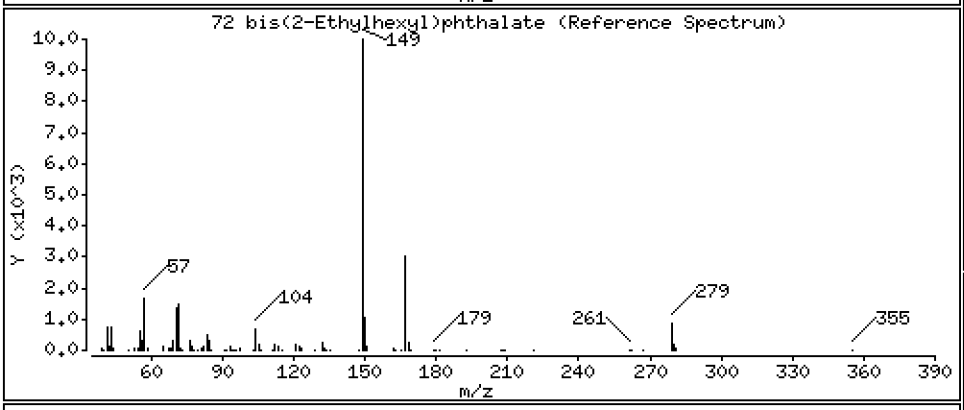
Concentration: 5.541 ug/mL

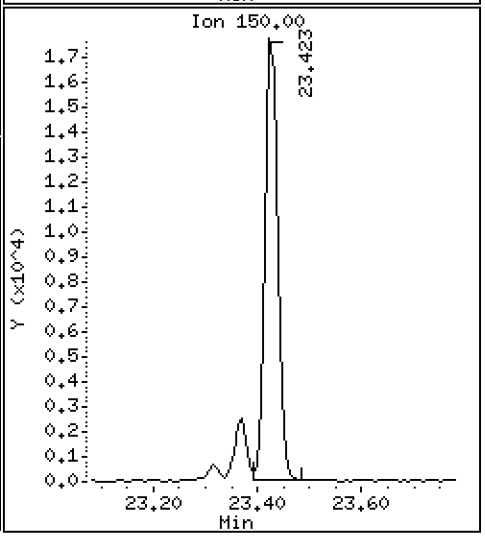


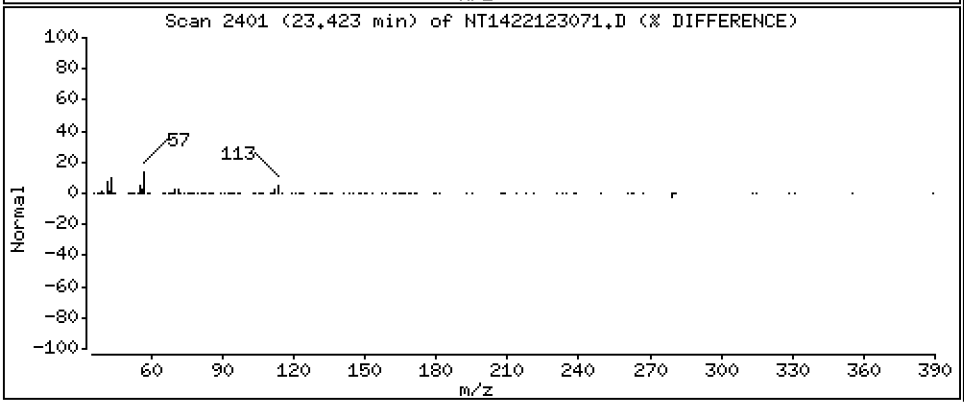












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123071.D

Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

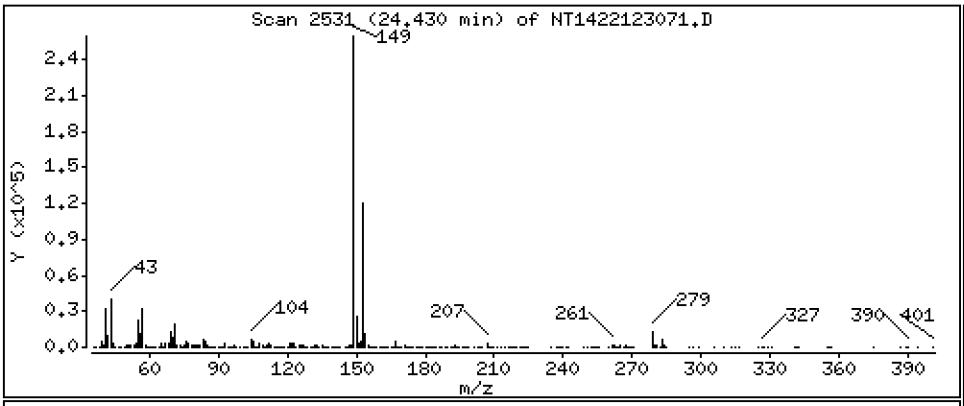
Operator: VTS

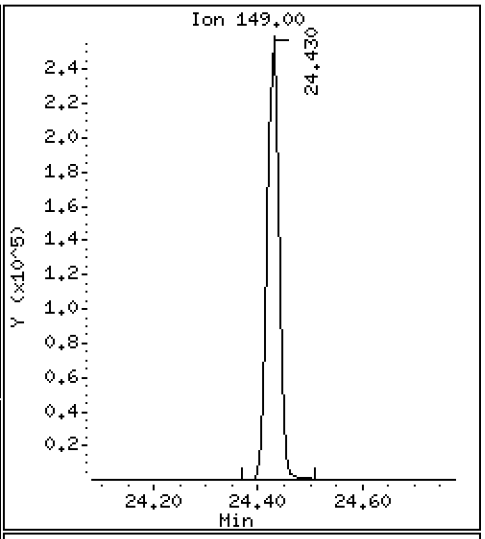
Column phase: ZB-5msi

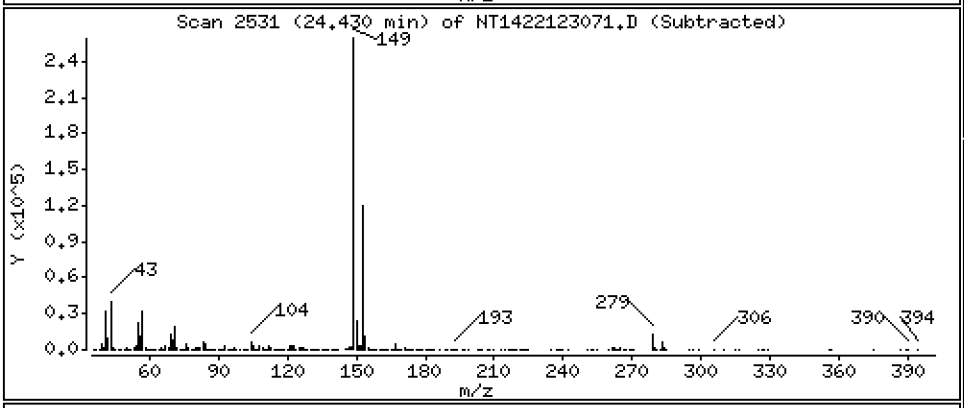
Column diameter: 0.25

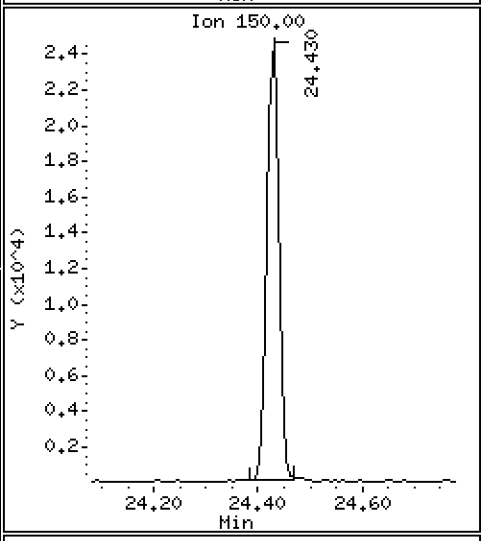
73 Di-n-octylphthalate

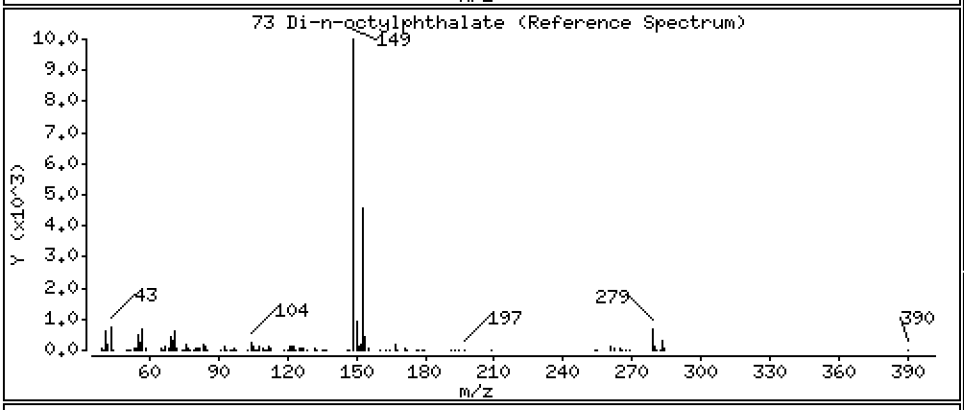
Concentration: 4.486 ug/mL

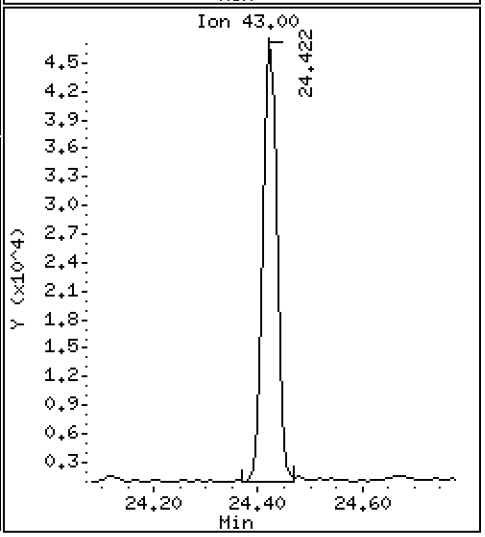


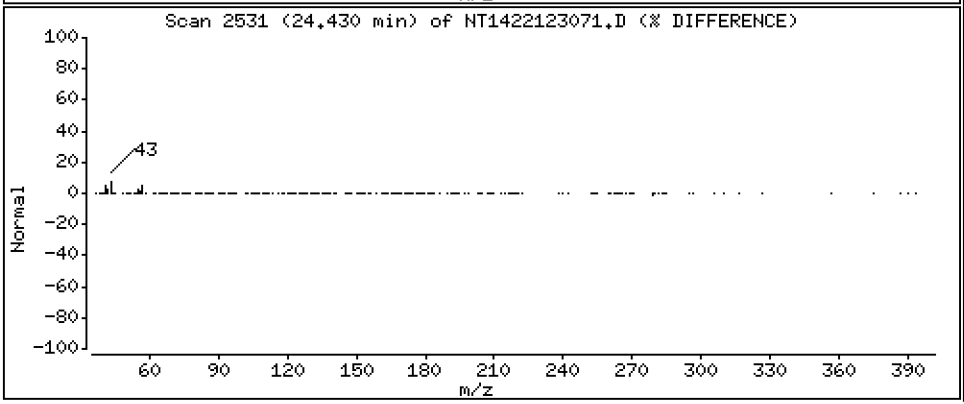












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

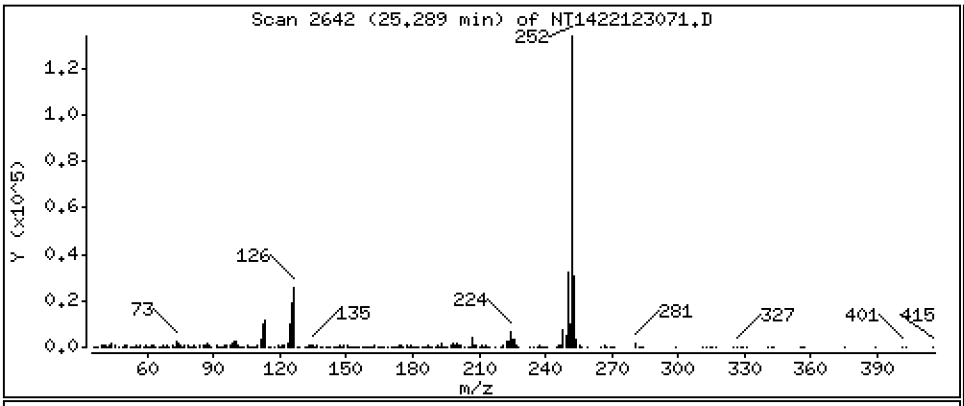
Operator: VTS

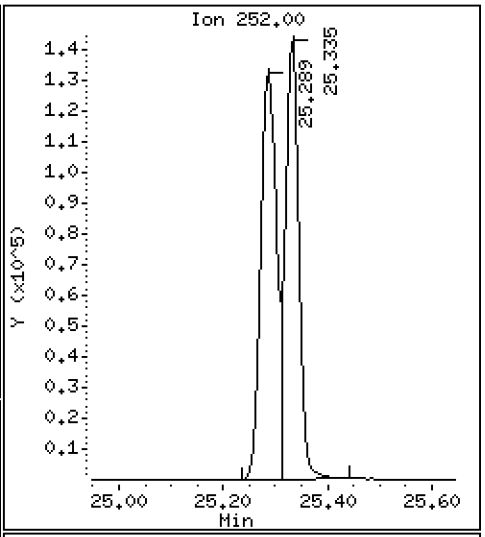
Column phase: ZB-5msi

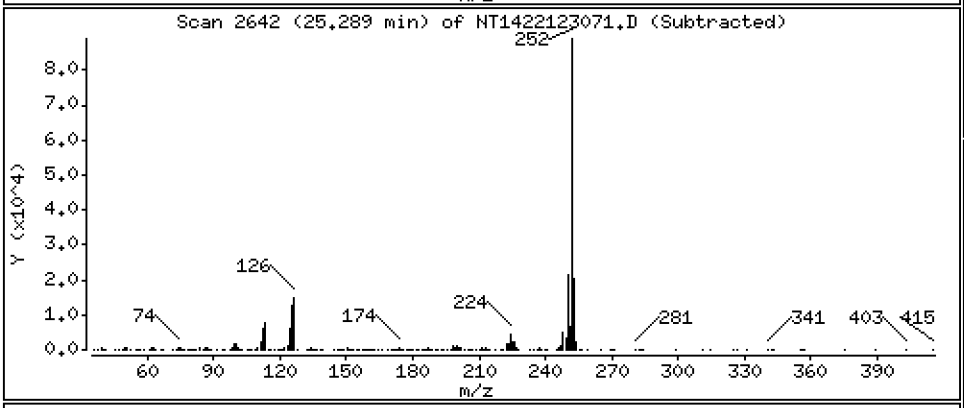
Column diameter: 0.25

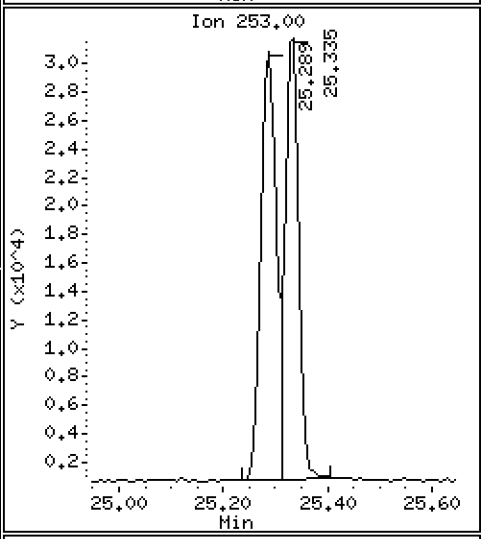
74 Benzo(b)fluoranthene

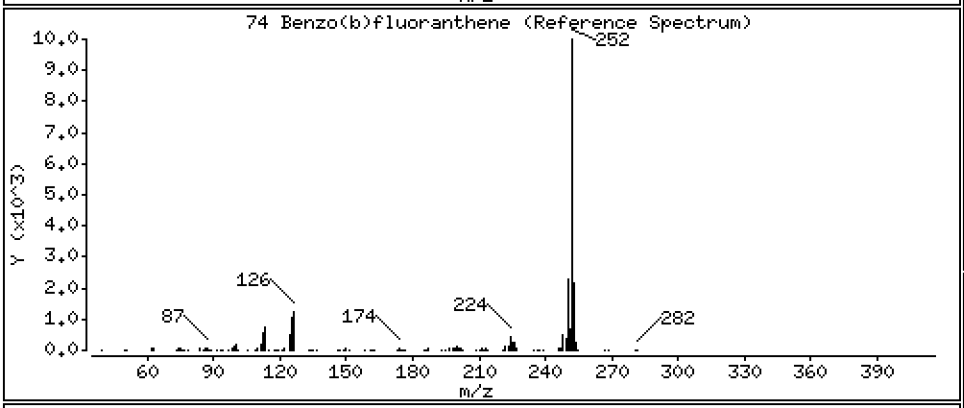
Concentration: 5.010 ug/mL

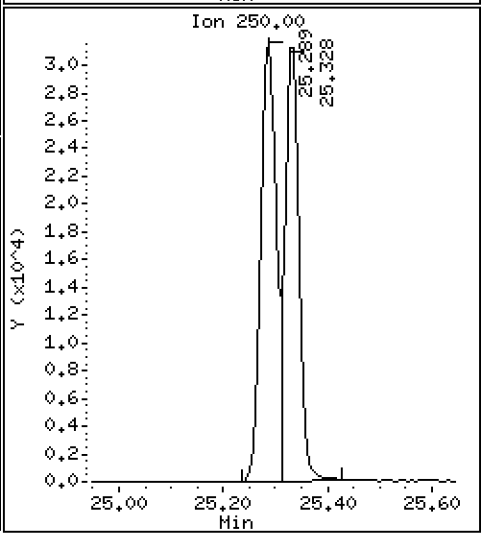


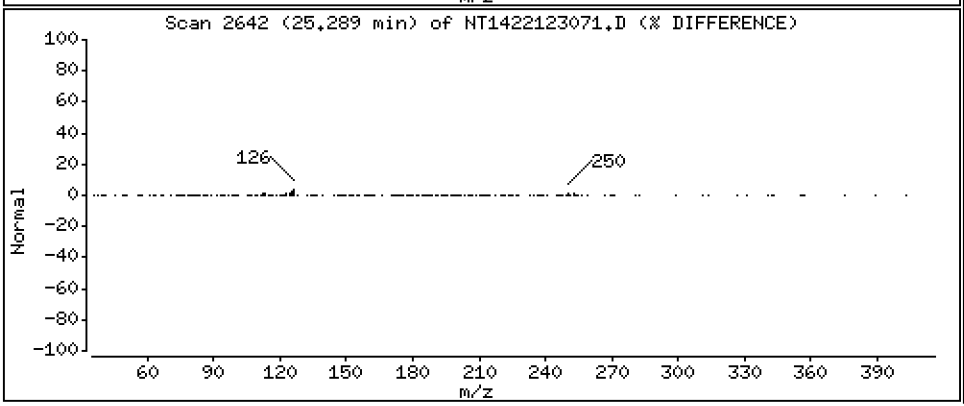












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

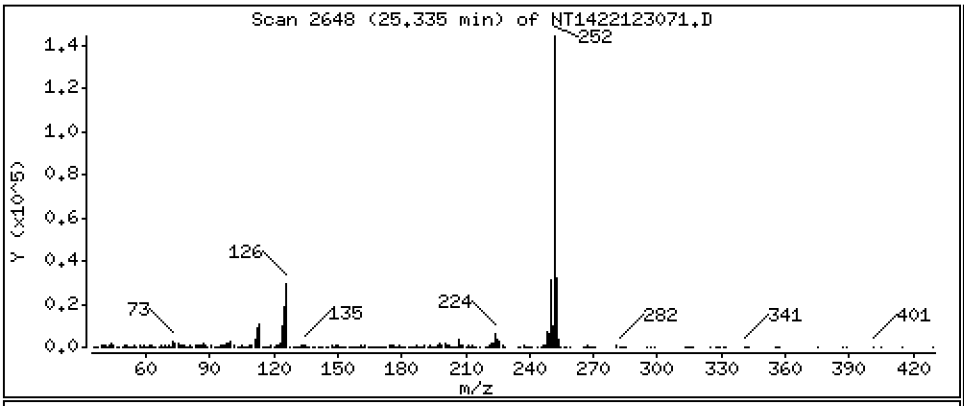
Operator: VTS

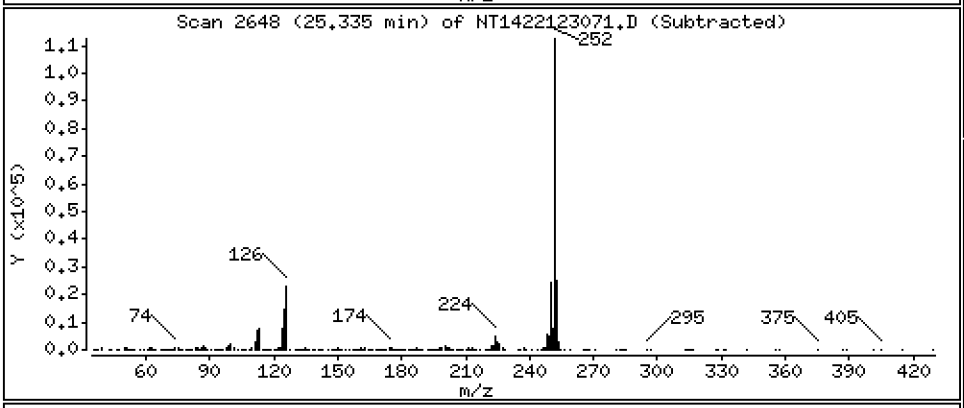
Column phase: ZB-5msi

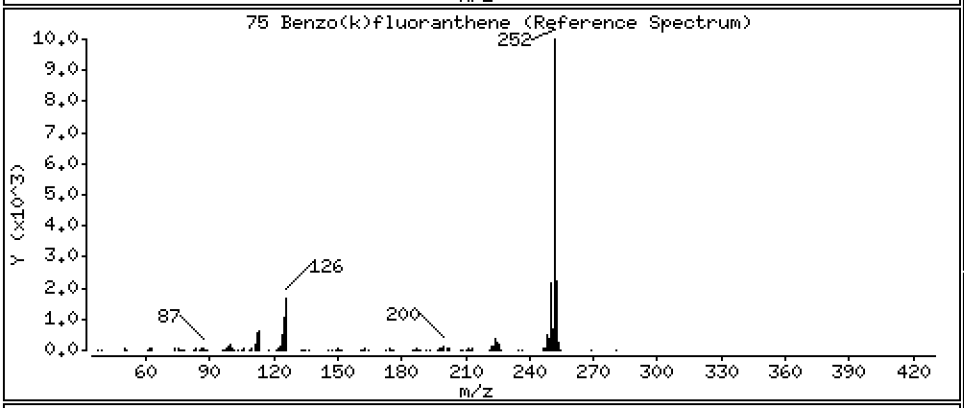
Column diameter: 0.25

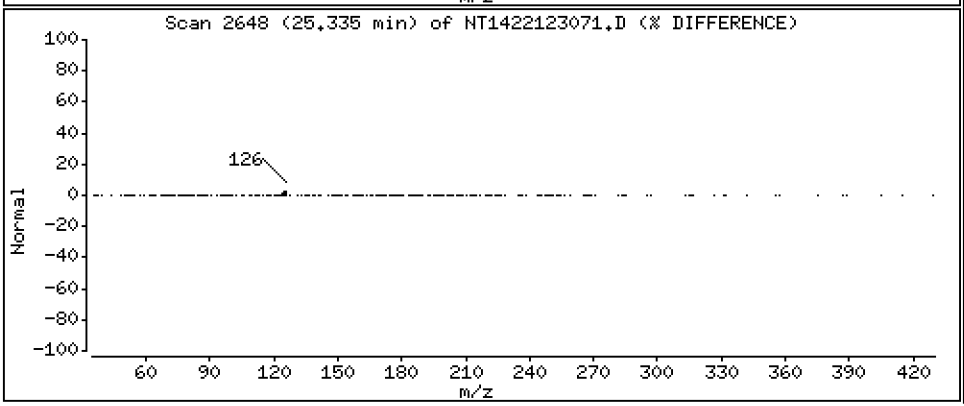
75 Benzo(k)fluoranthene

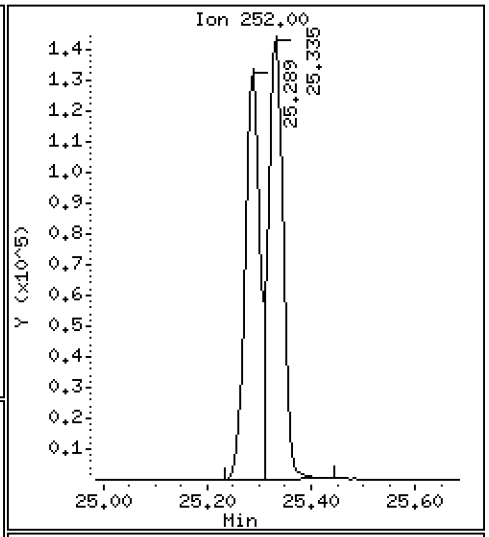
Concentration: 4.808 ug/mL

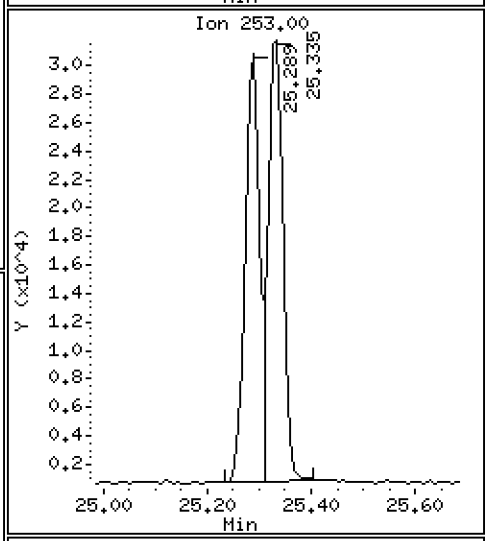


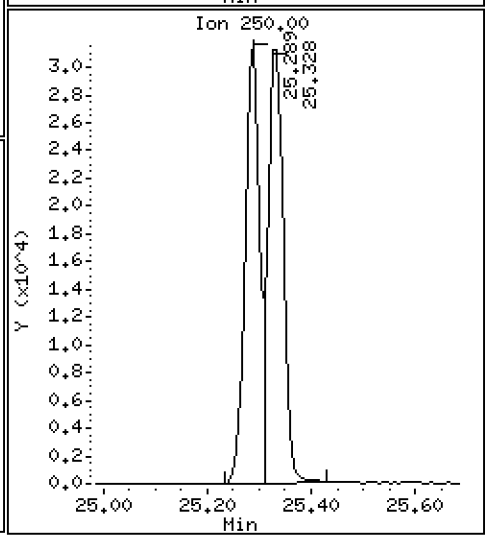












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

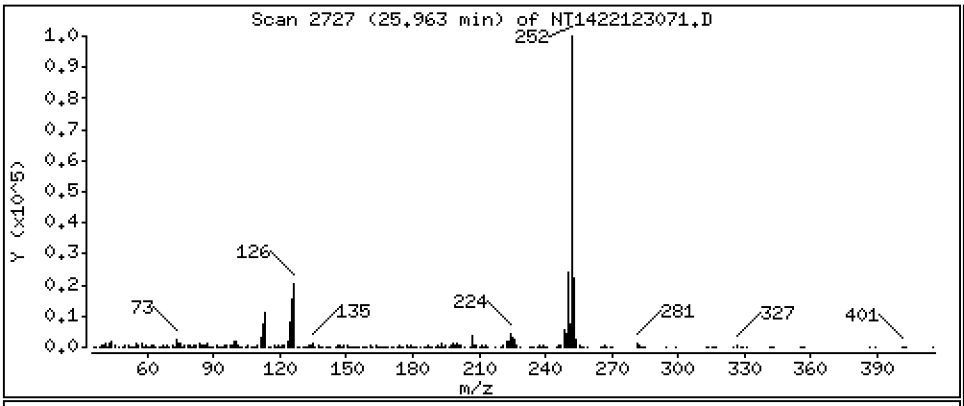
Operator: VTS

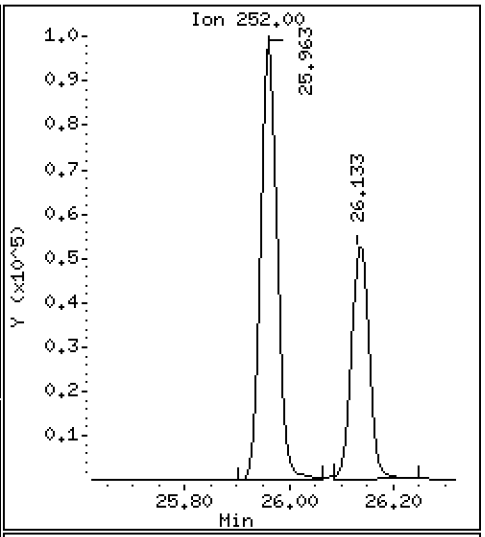
Column phase: ZB-5msi

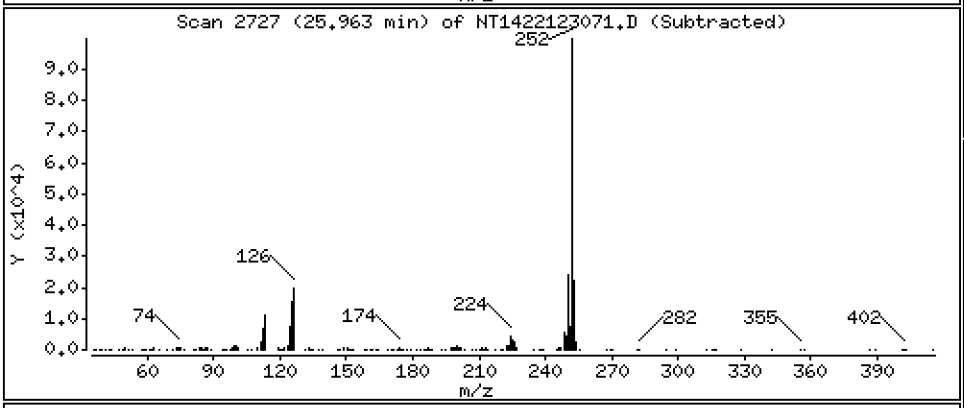
Column diameter: 0.25

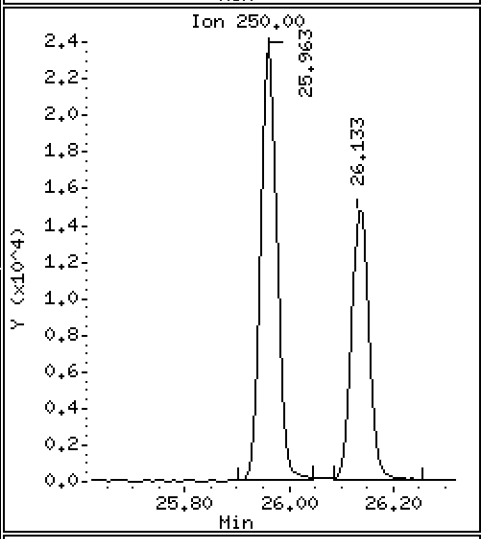
76 Benzo(a)pyrene

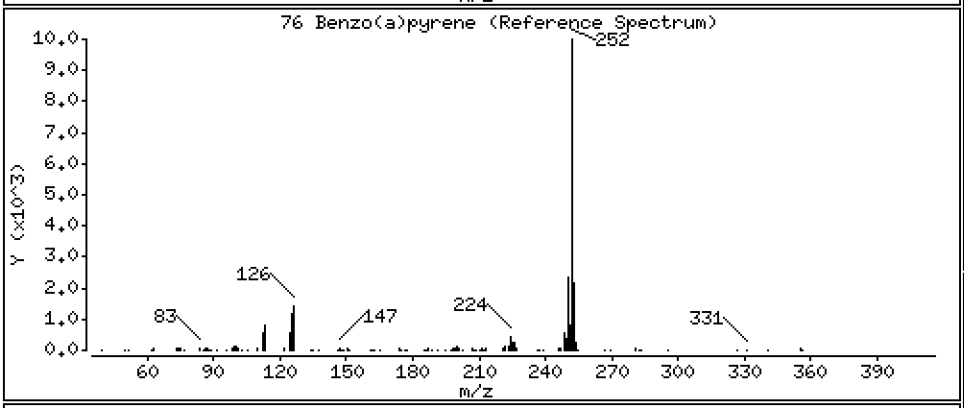
Concentration: 4.577 ug/mL

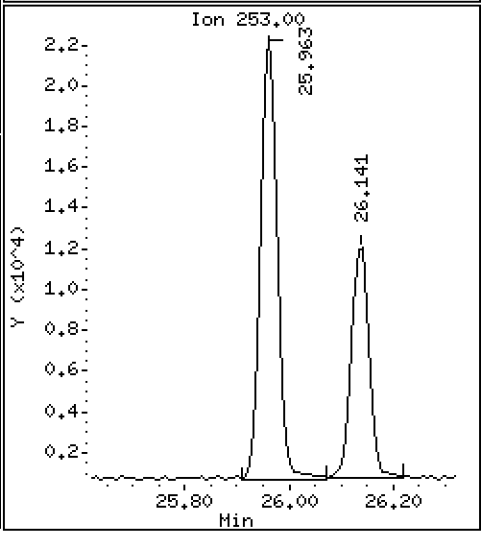


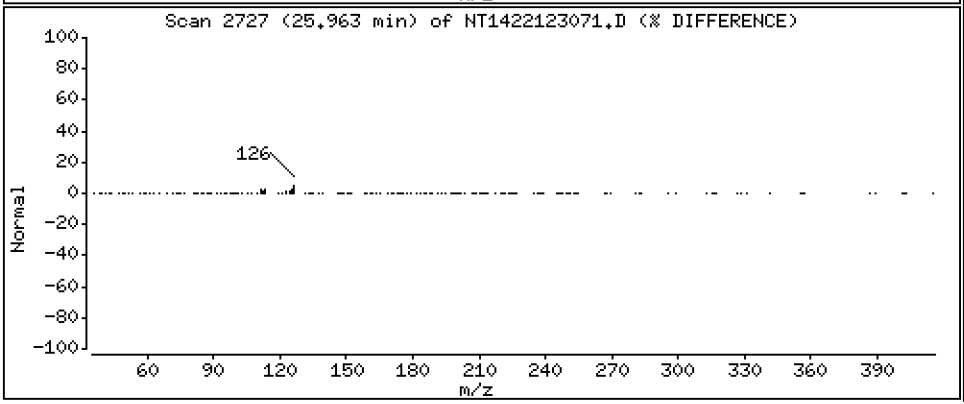












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

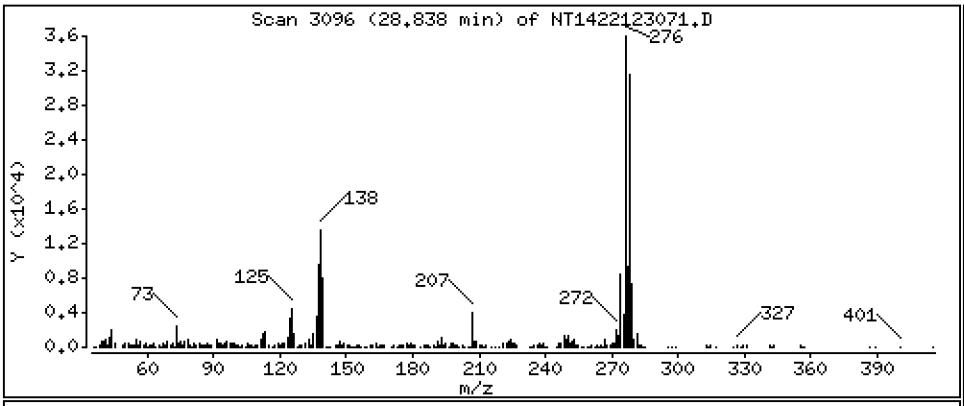
Operator: VTS

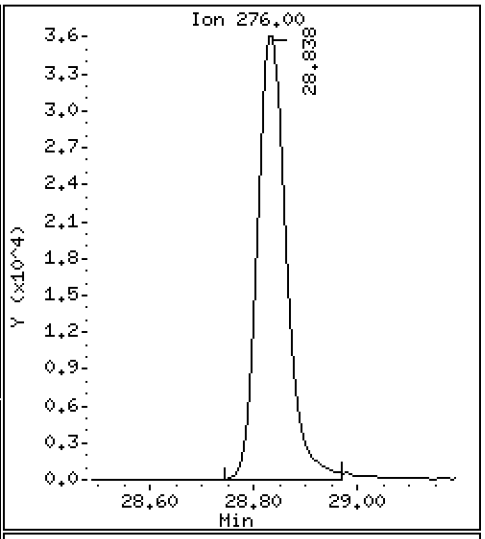
Column phase: ZB-5msi

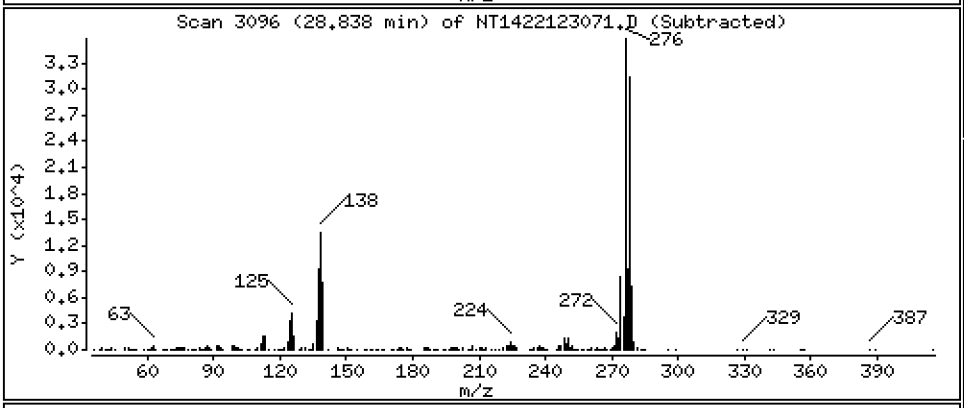
Column diameter: 0.25

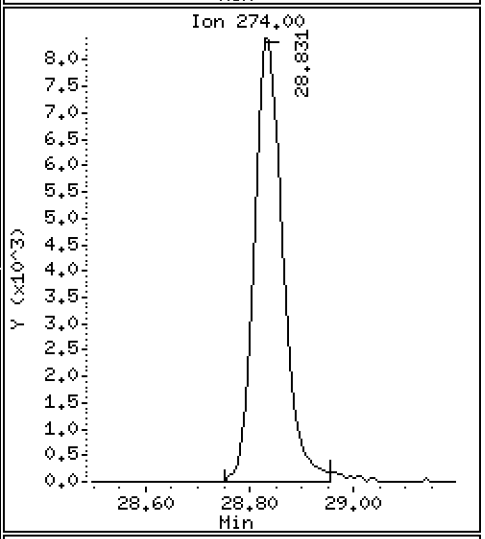
78 Indeno(1,2,3-cd)pyrene

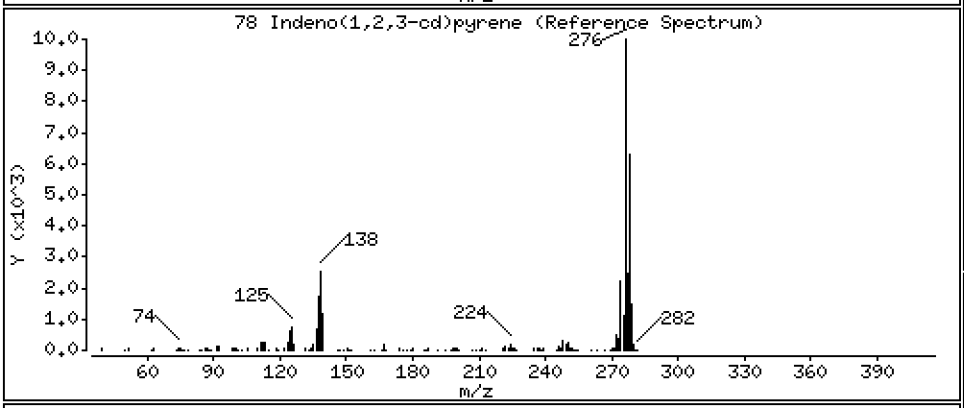
Concentration: 2.620 ug/mL

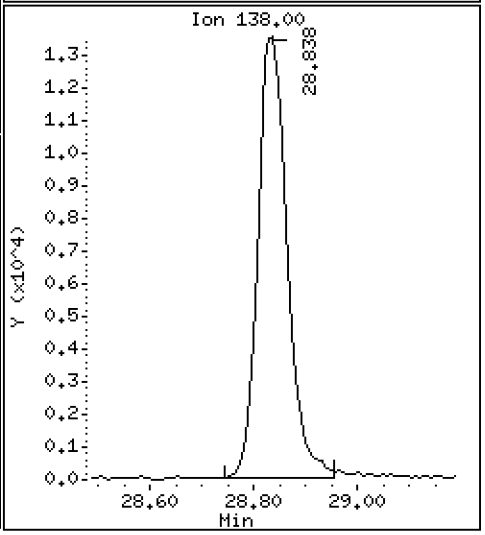


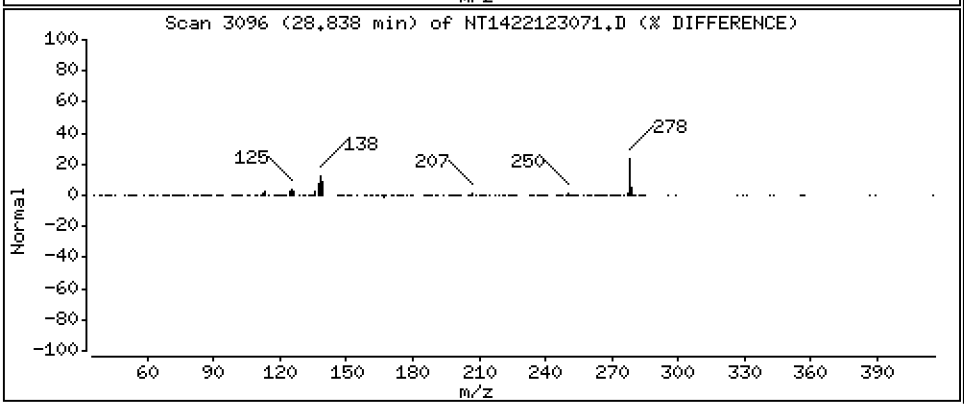












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

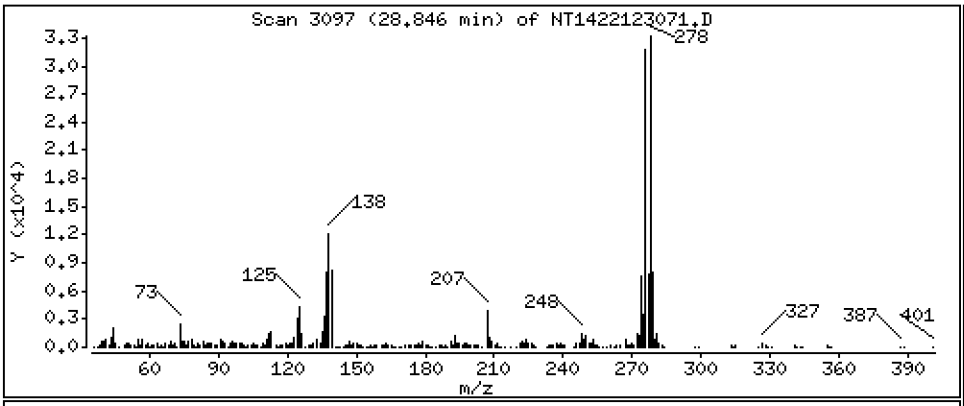
Operator: VTS

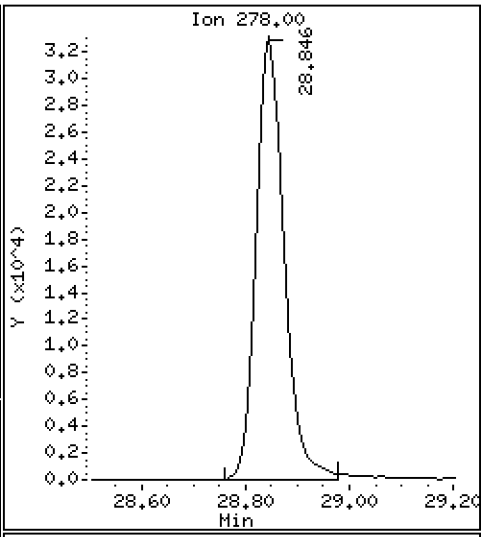
Column phase: ZB-5msi

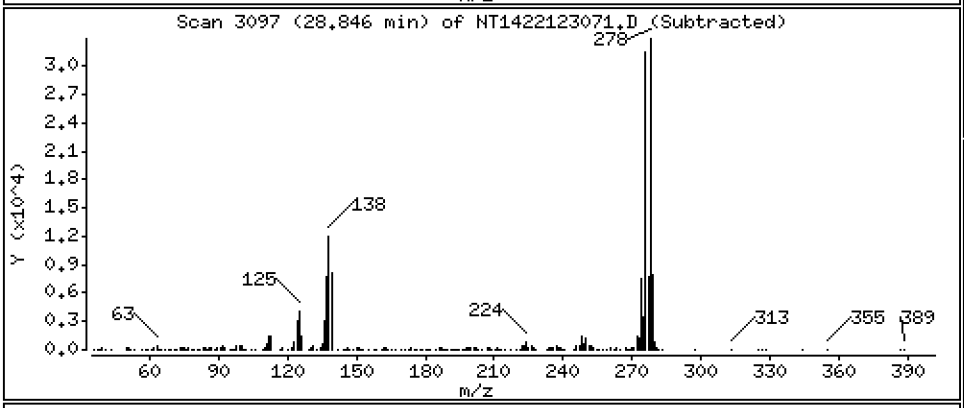
Column diameter: 0.25

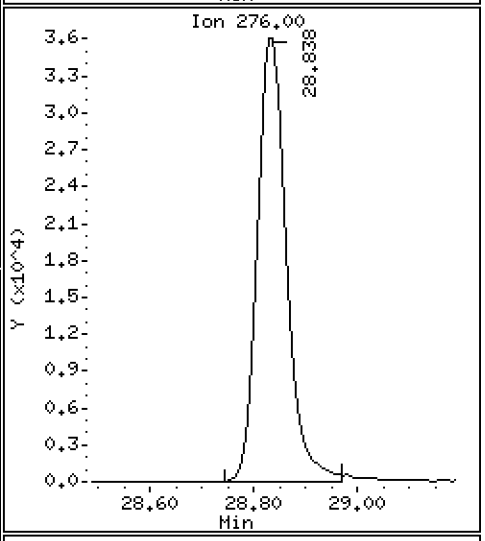
79 Dibenzo(a,h)anthracene

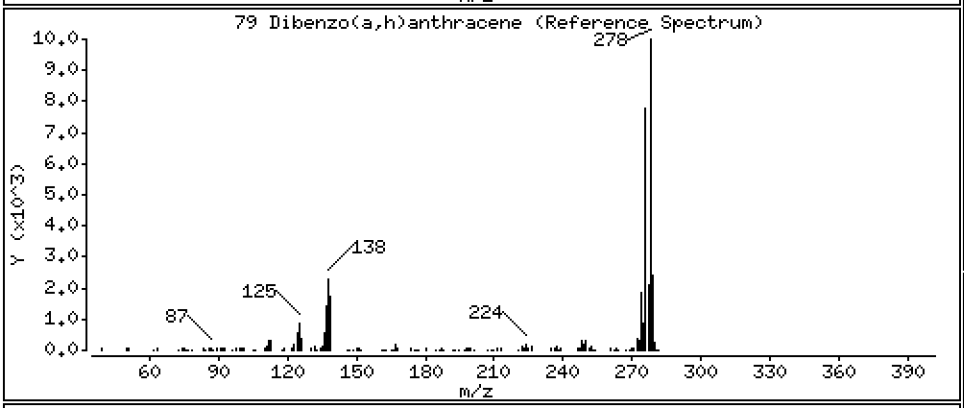
Concentration: 2.731 ug/mL

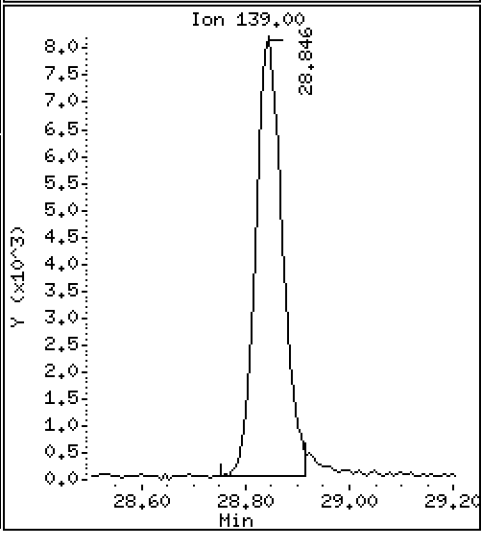


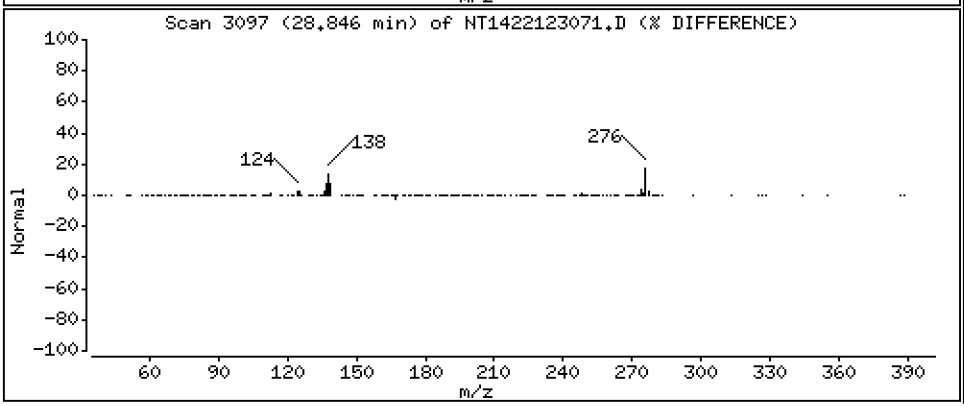












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

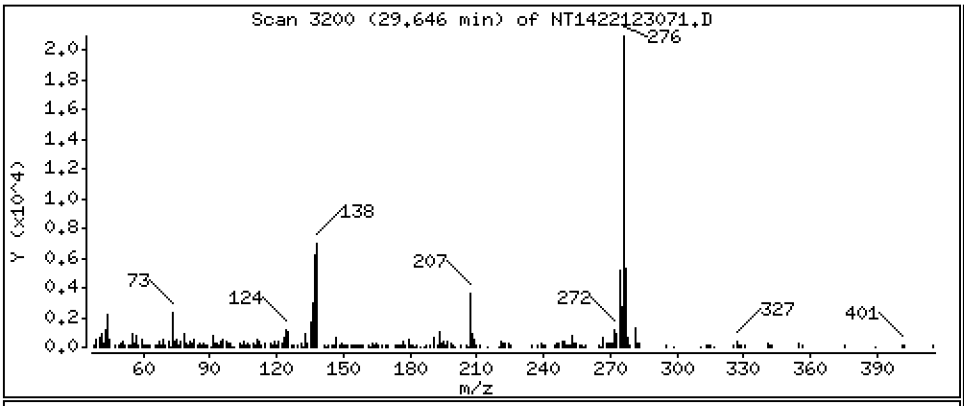
Operator: VTS

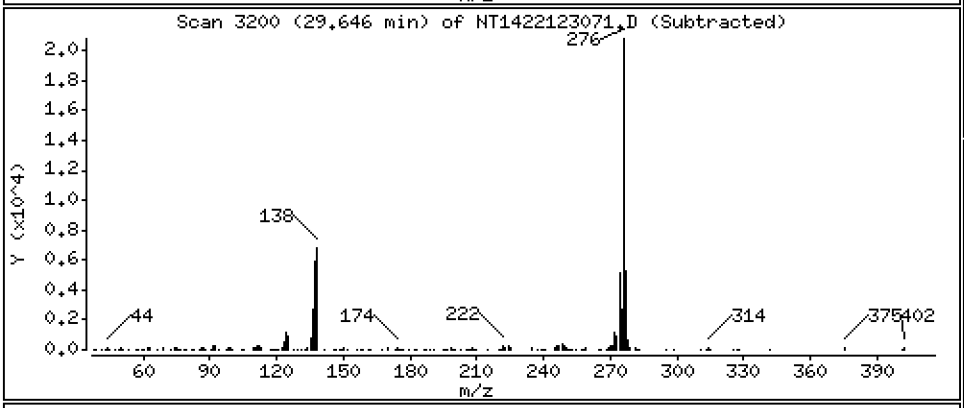
Column phase: ZB-5msi

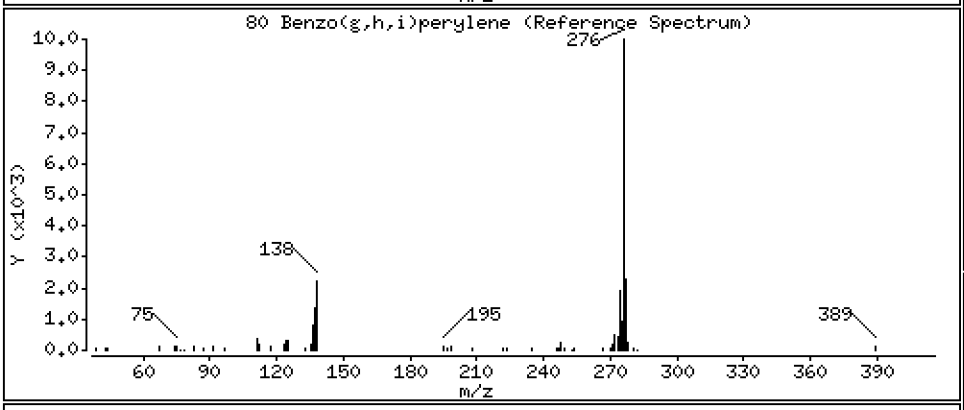
Column diameter: 0.25

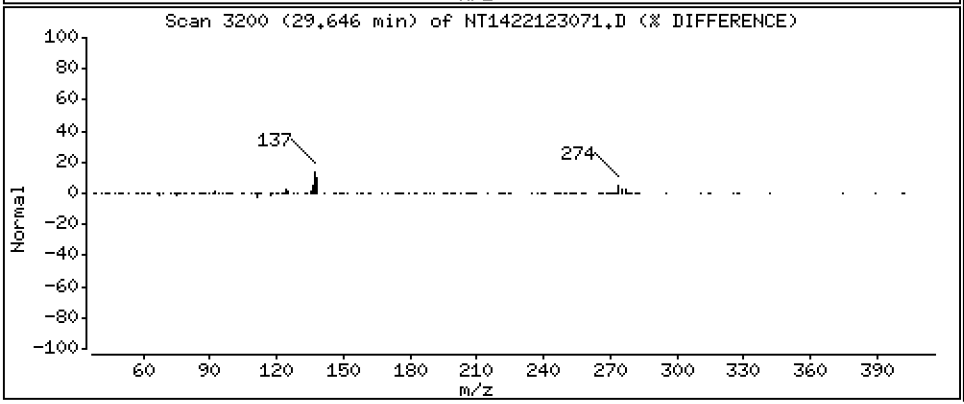
80 Benzo(g,h,i)perylene

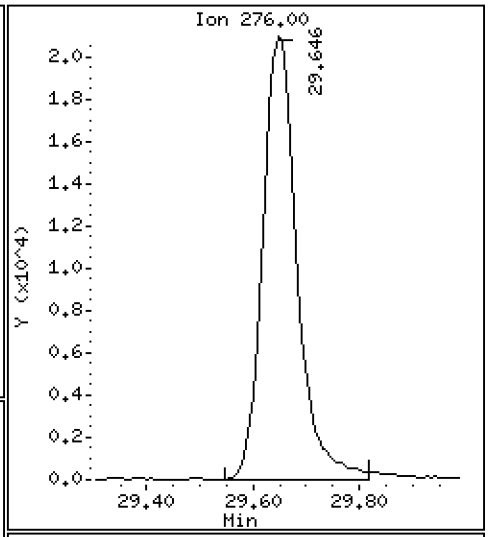
Concentration: 2.113 ug/mL

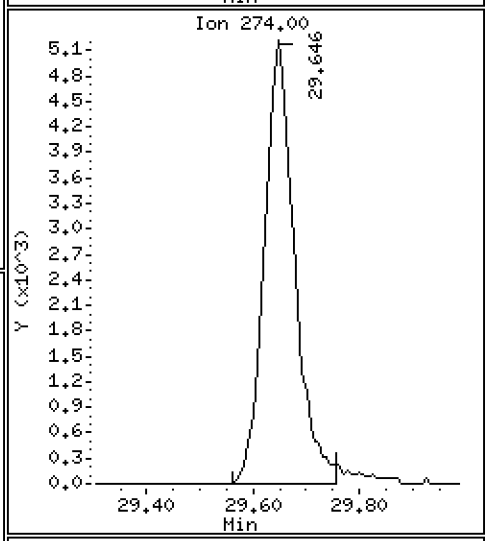


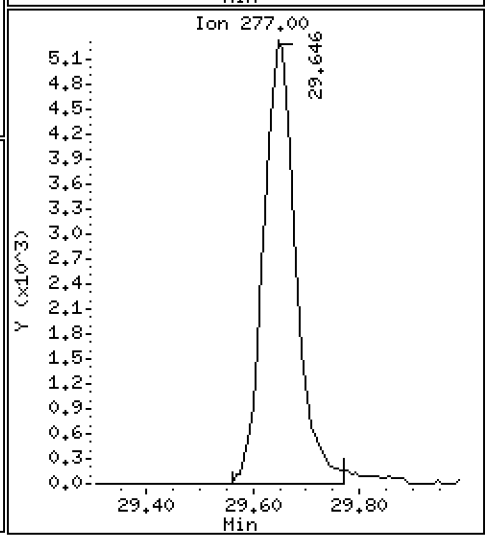












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123071.D

Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

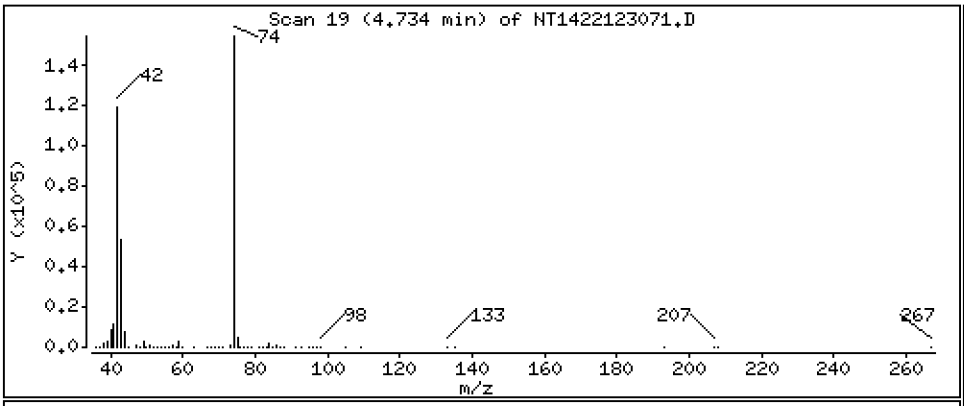
Operator: VTS

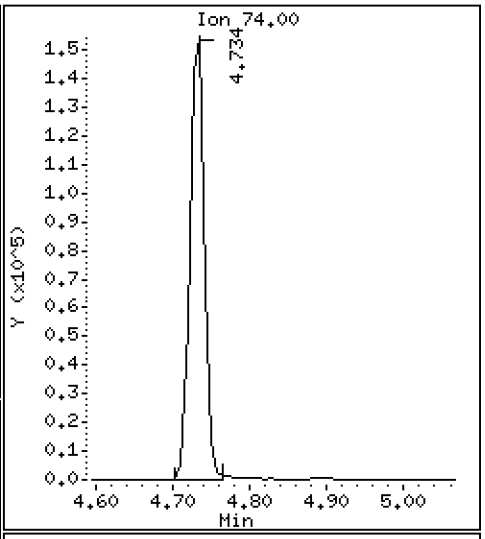
Column phase: ZB-5msi

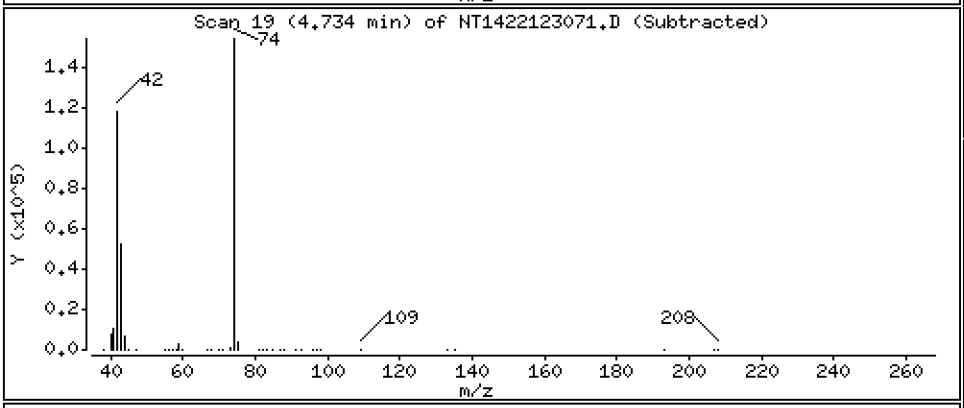
Column diameter: 0.25

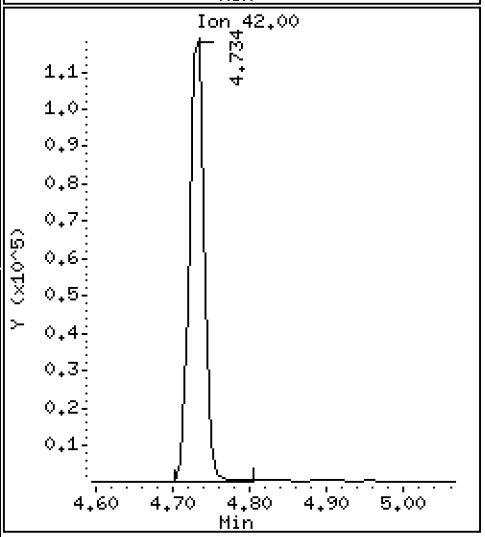
90 N-Nitrosodimethylamine

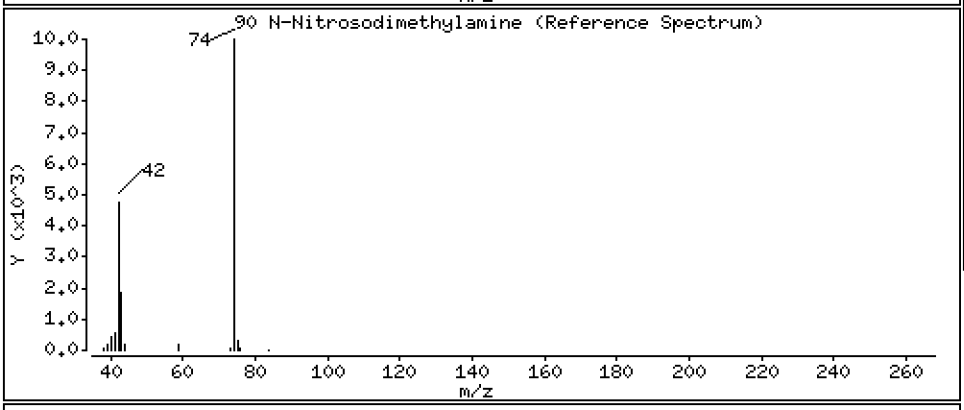
Concentration: 10.90 ug/mL

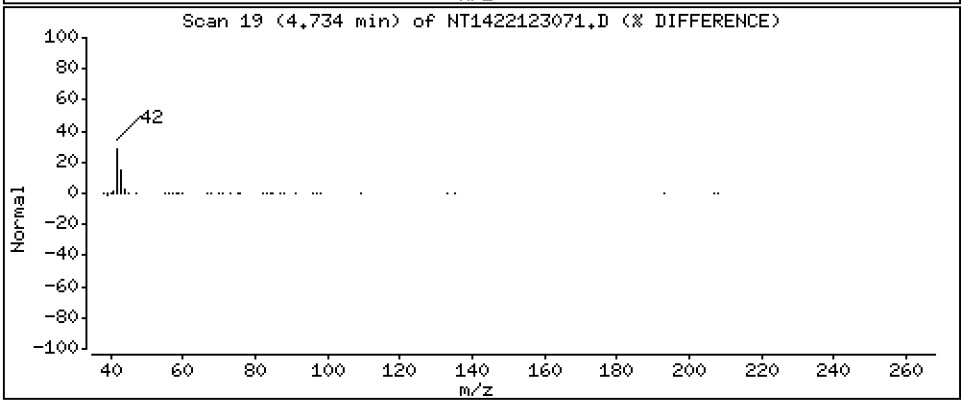












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123071.D

Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

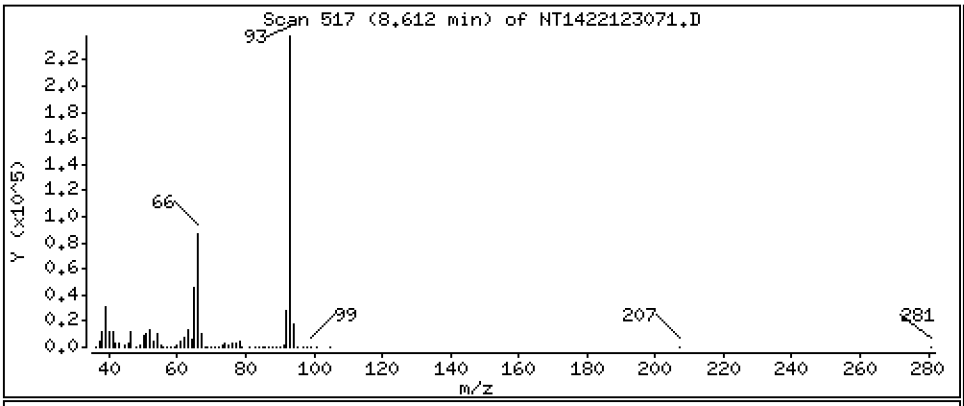
Operator: VTS

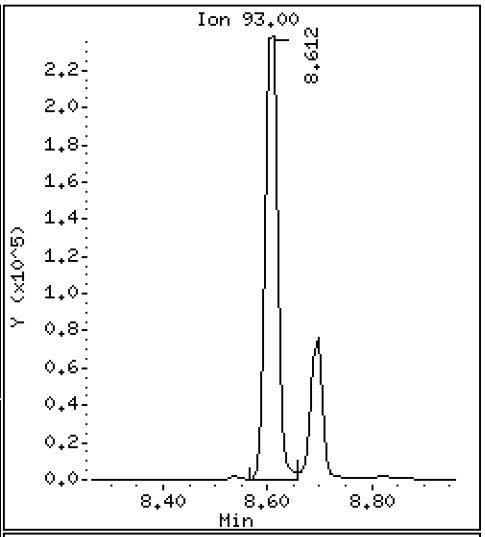
Column phase: ZB-5msi

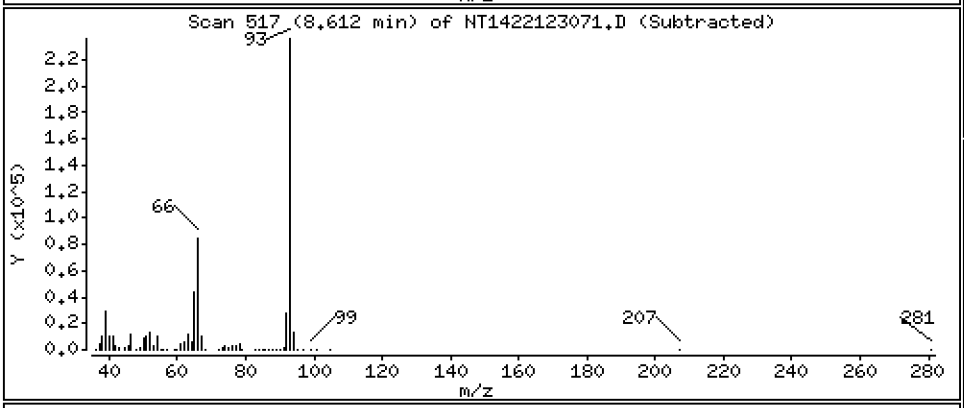
Column diameter: 0.25

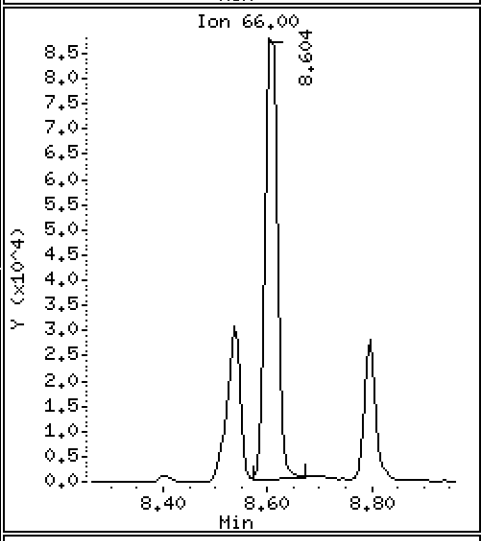
91 Aniline

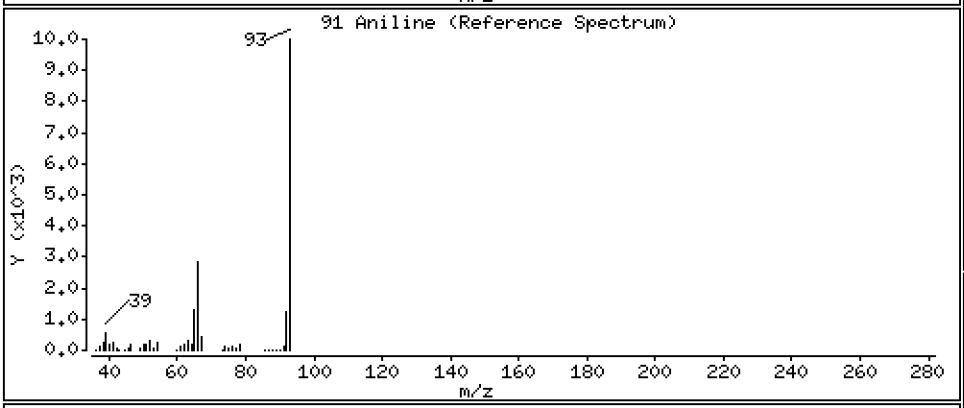
Concentration: 10.11 ug/mL

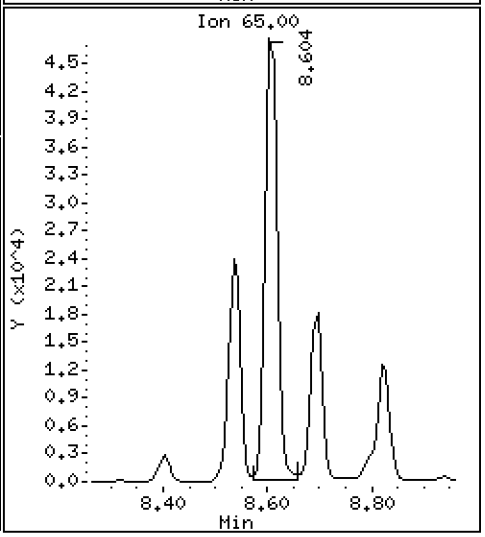


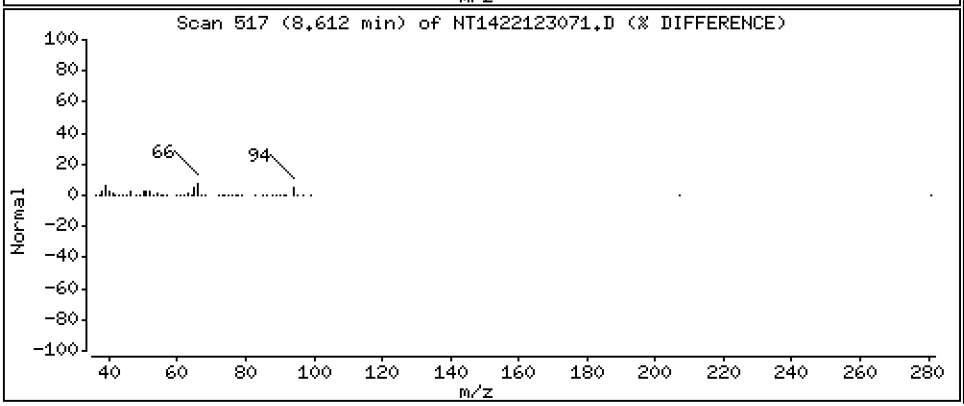












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123071.D

Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

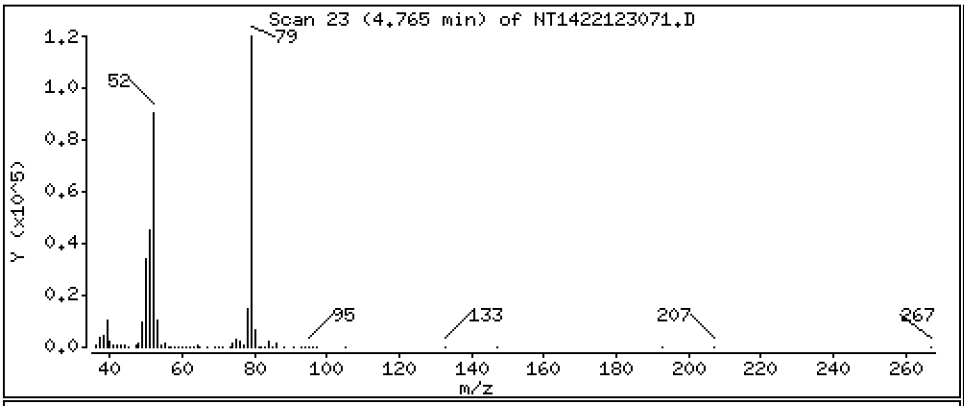
Operator: VTS

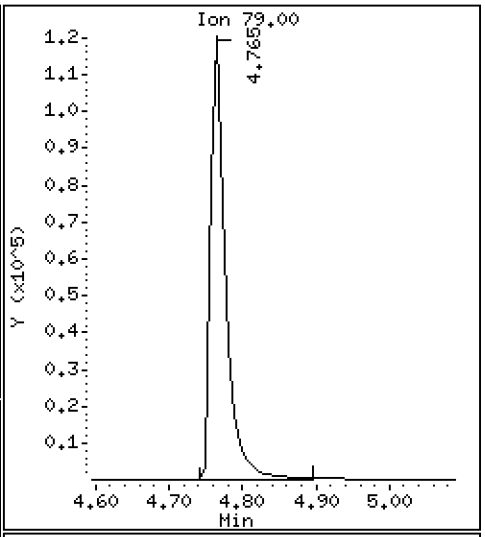
Column phase: ZB-5msi

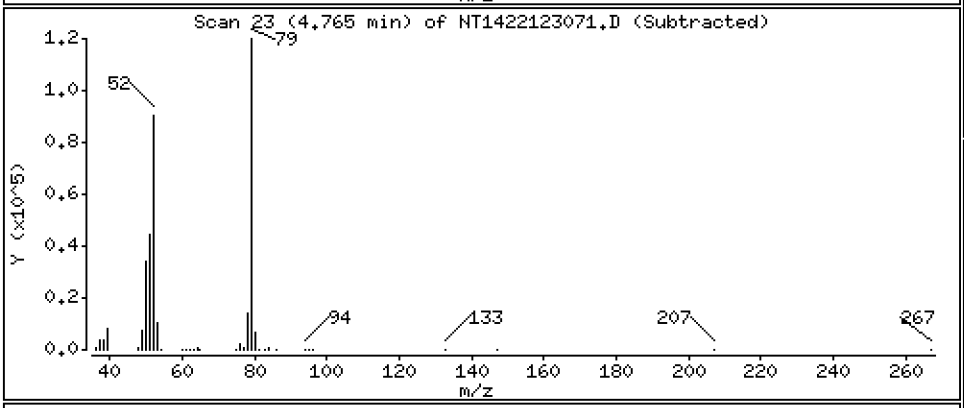
Column diameter: 0.25

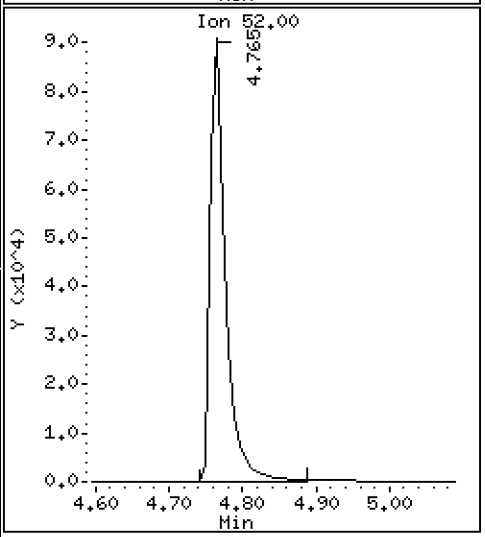
103 Pyridine

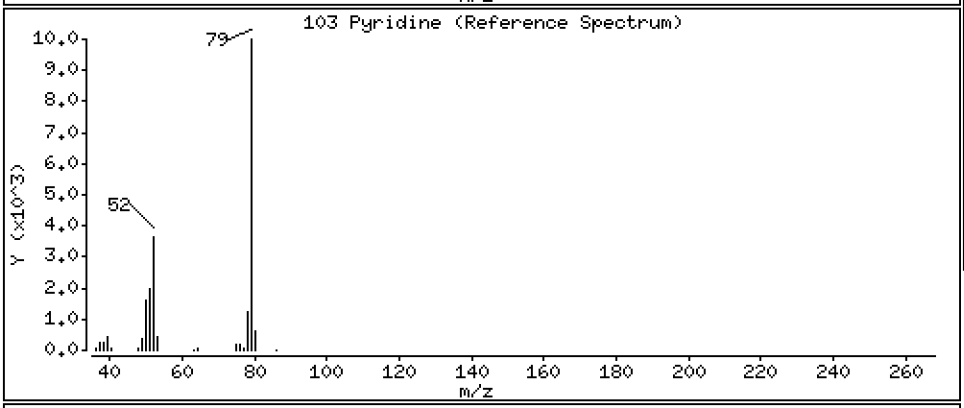
Concentration: 2.838 ug/mL

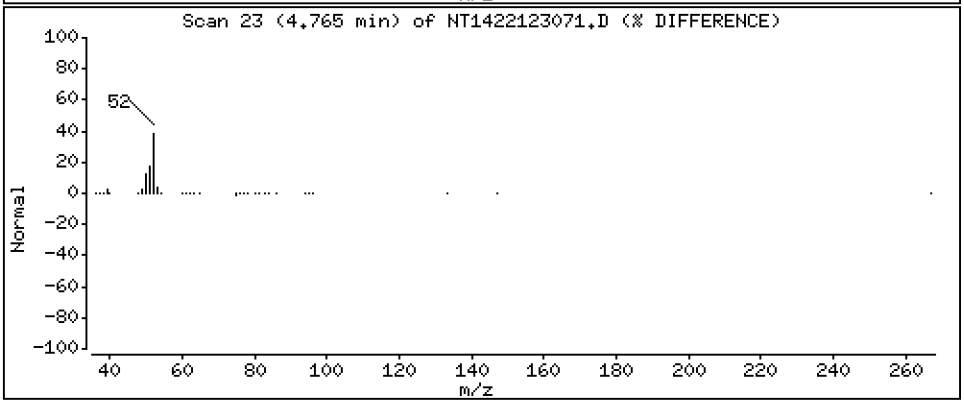












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123071.D

Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

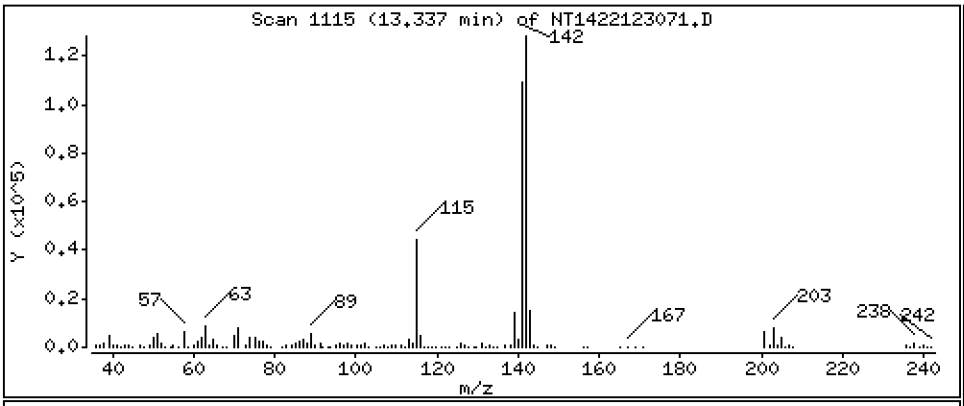
Operator: VTS

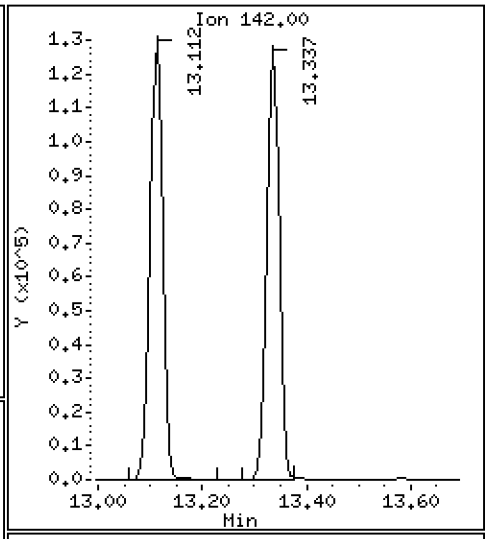
Column phase: ZB-5msi

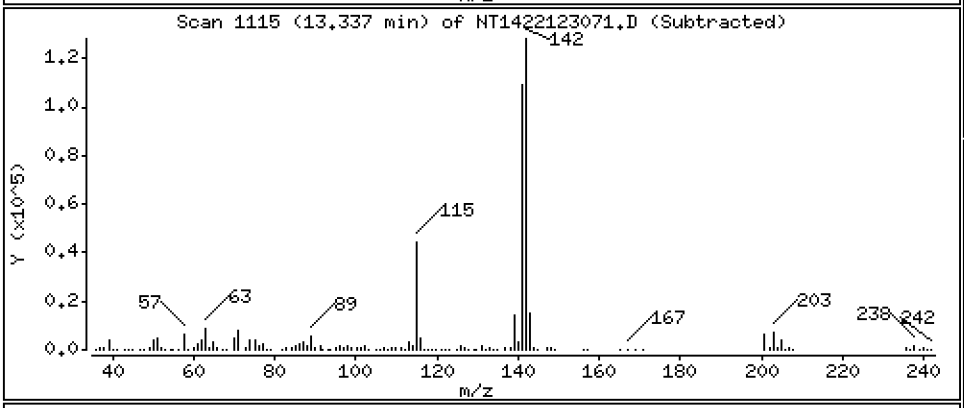
Column diameter: 0.25

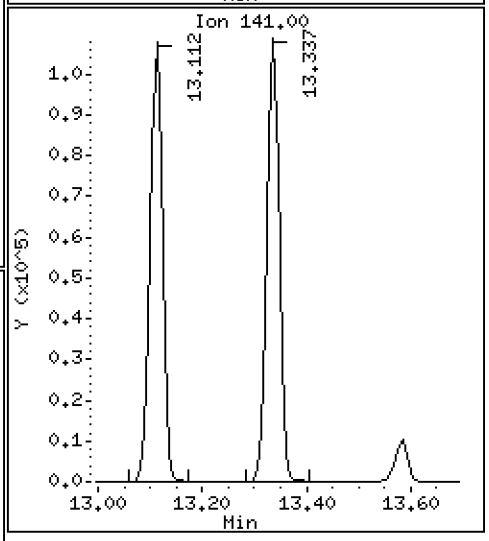
105 1-methylnaphthalene

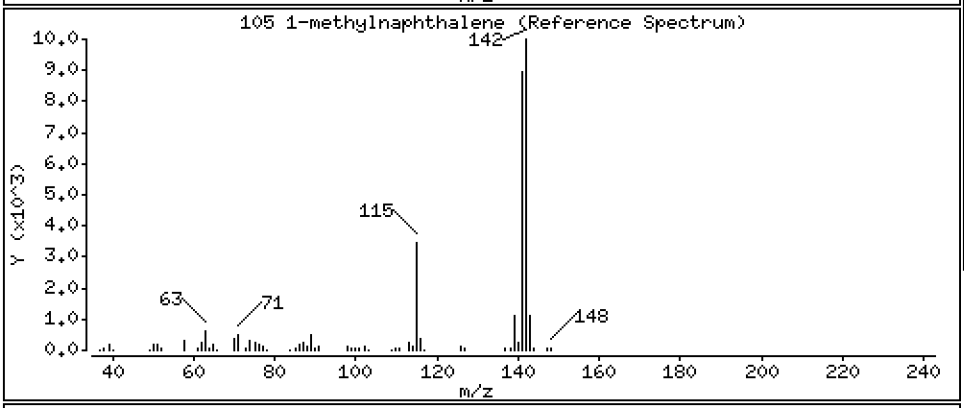
Concentration: 3.724 ug/mL

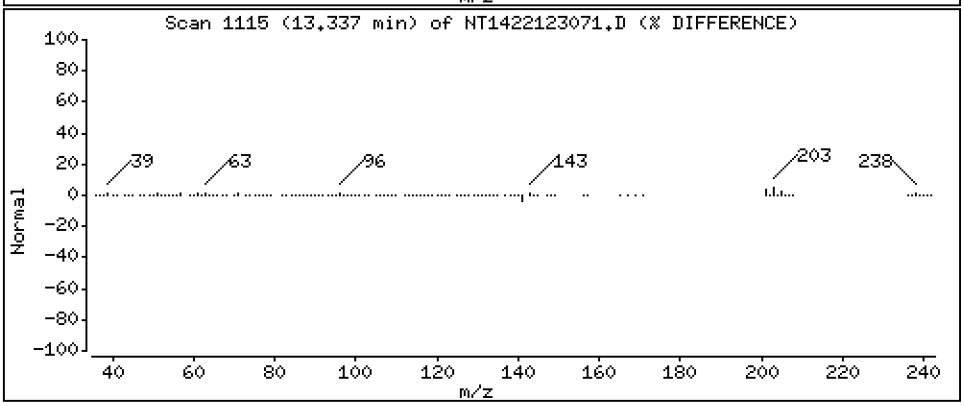












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123071.D

Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

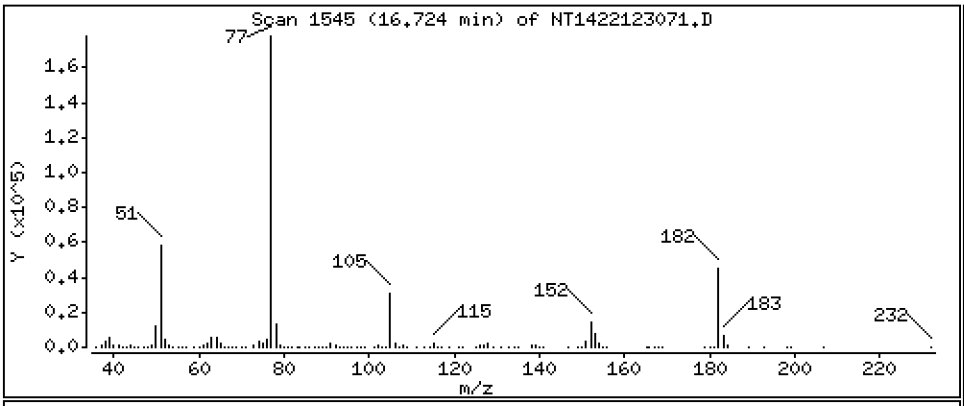
Operator: VTS

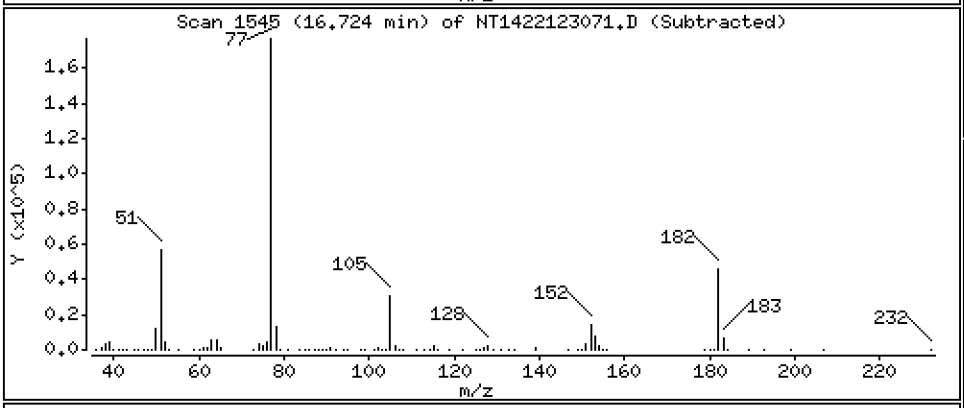
Column phase: ZB-5msi

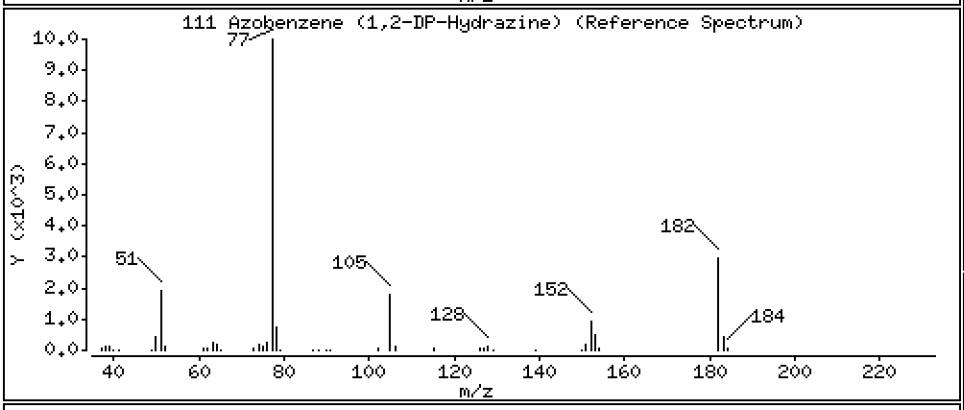
Column diameter: 0.25

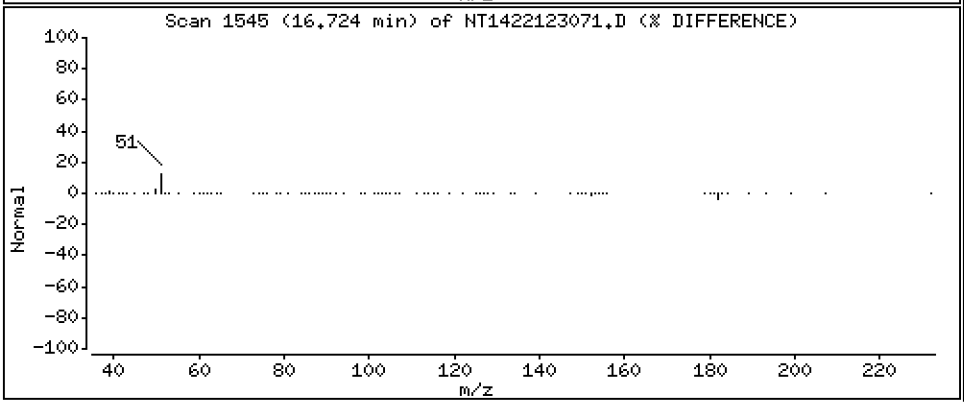
111 Azobenzene (1,2-DP-Hydrazine)

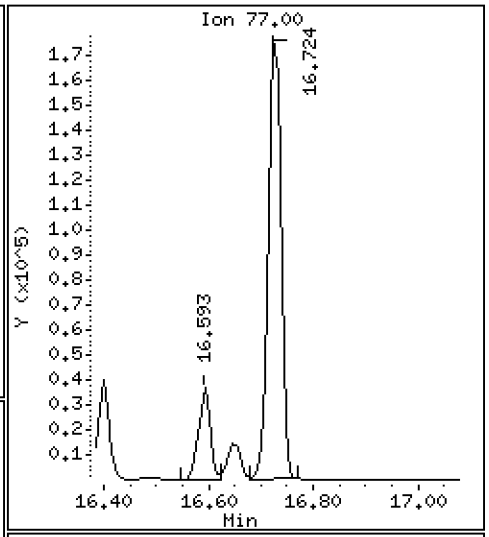
Concentration: 4.784 ug/mL

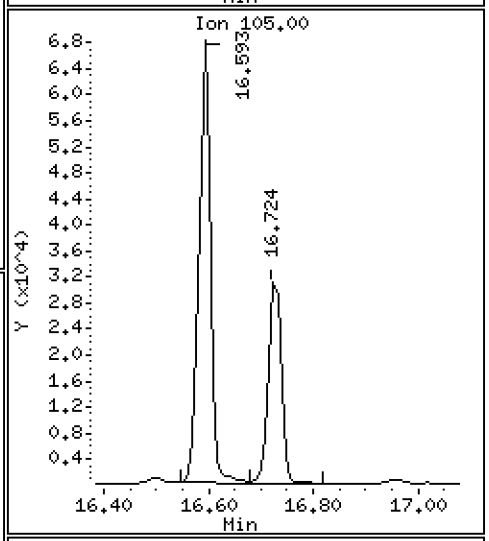


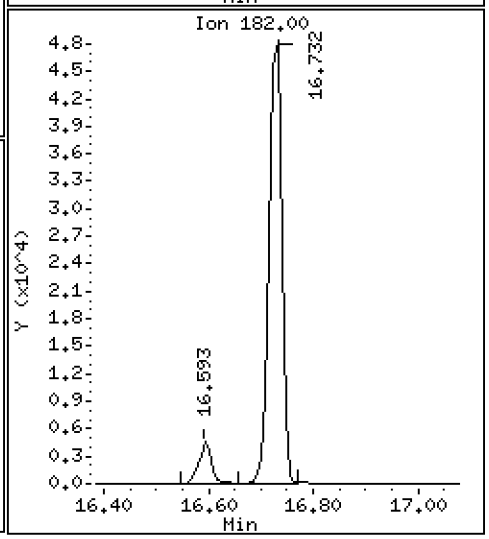












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Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

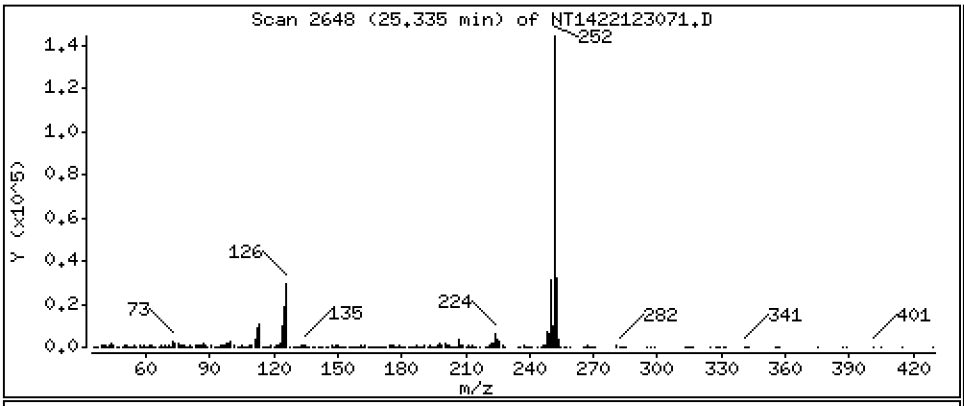
Operator: VTS

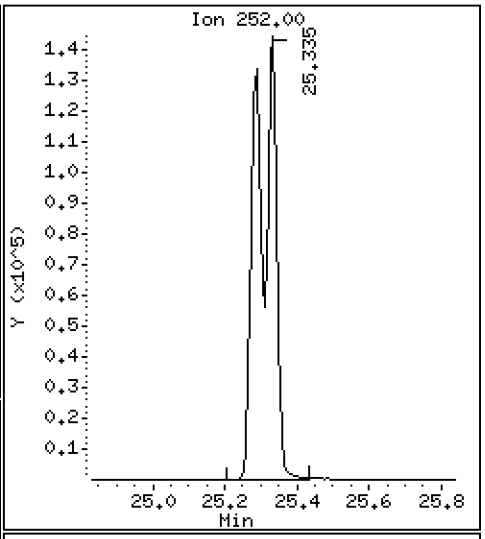
Column phase: ZB-5msi

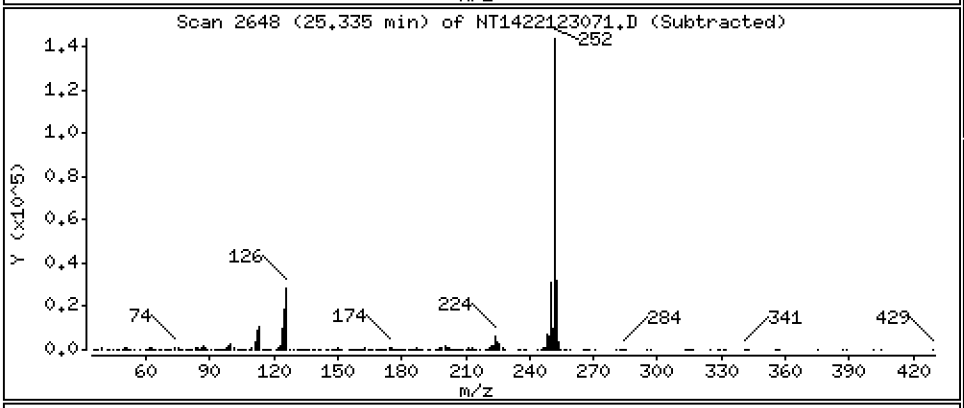
Column diameter: 0.25

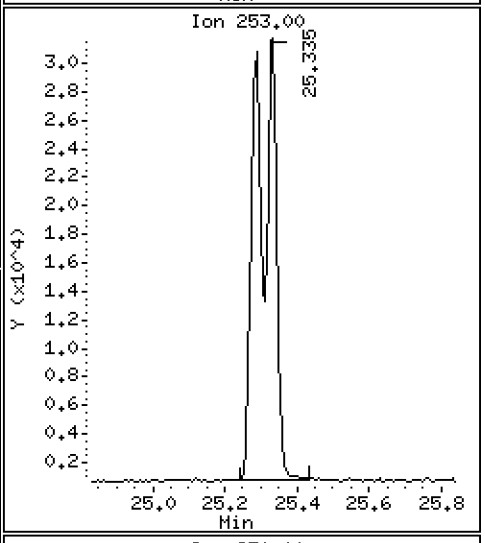
187 Total Benzofluoranthenes

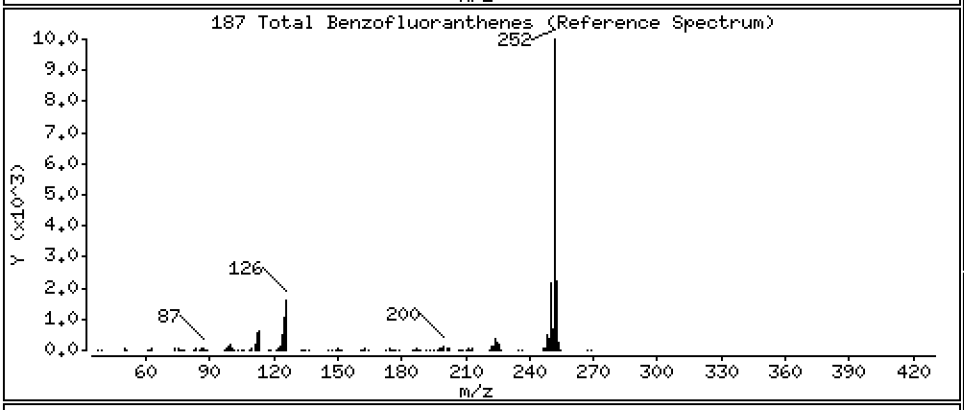
Concentration: 9.803 ug/mL

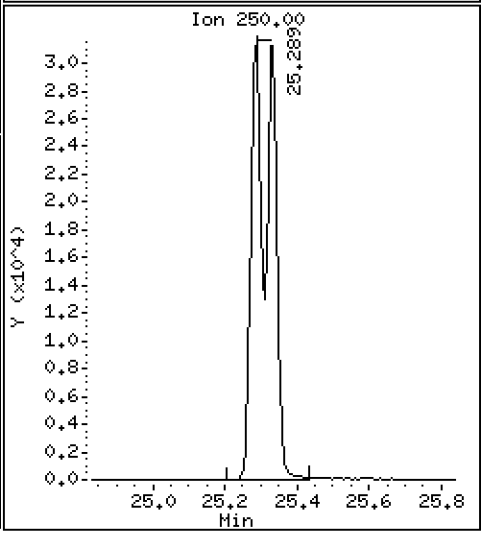


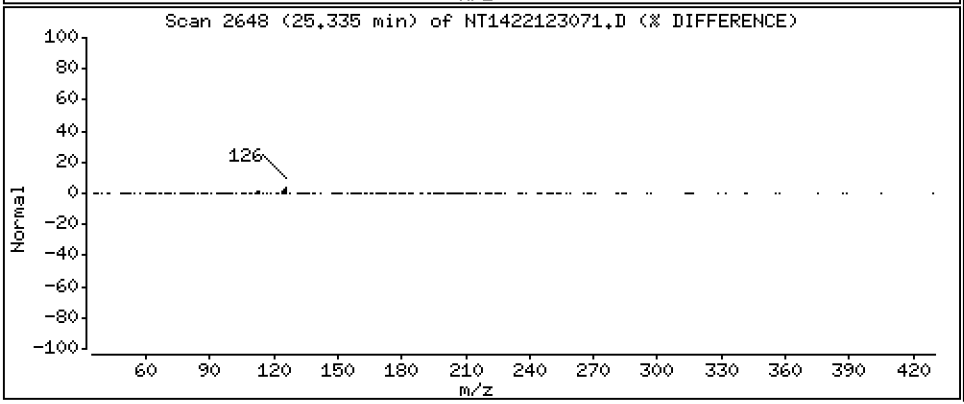












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123071.D

Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

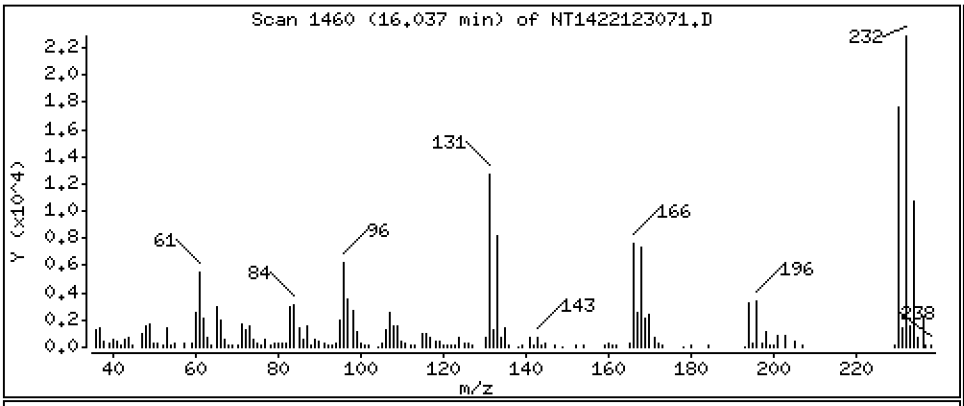
Operator: VTS

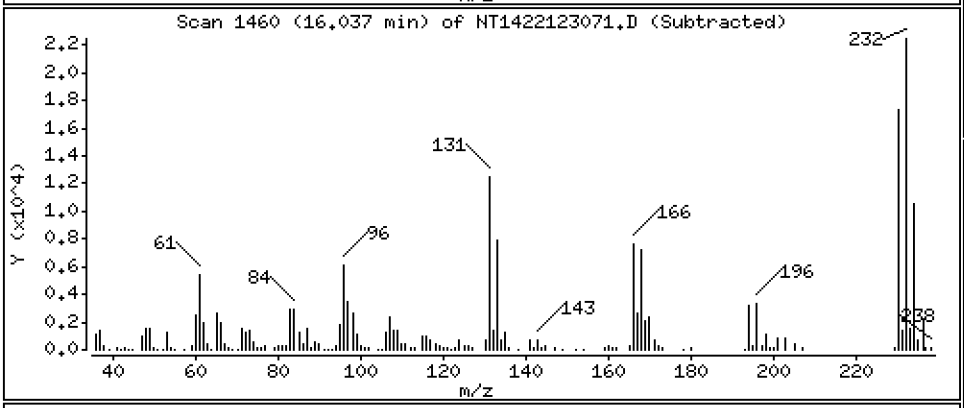
Column phase: ZB-5msi

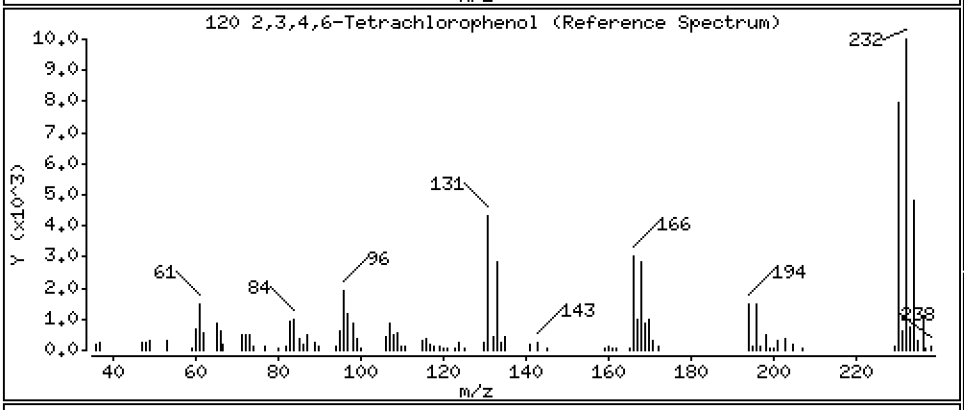
Column diameter: 0.25

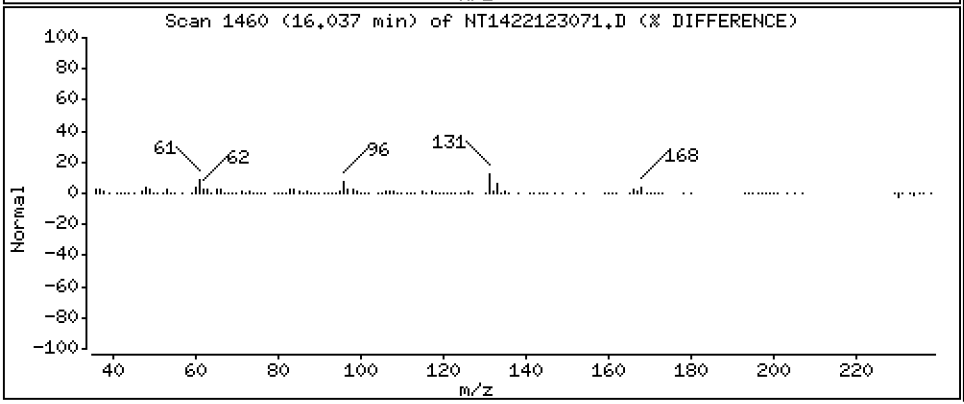
120 2,3,4,6-Tetrachlorophenol

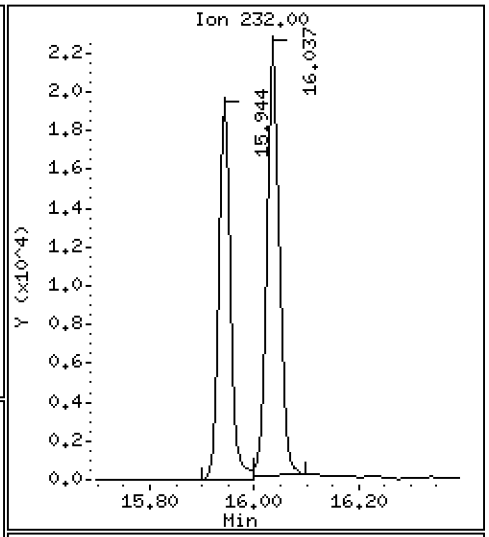
Concentration: 3.133 ug/mL

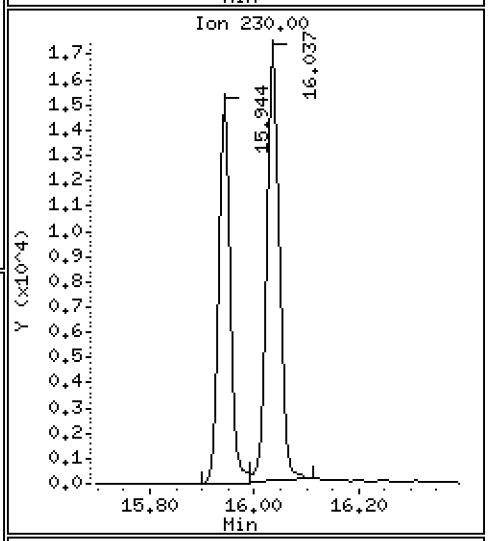


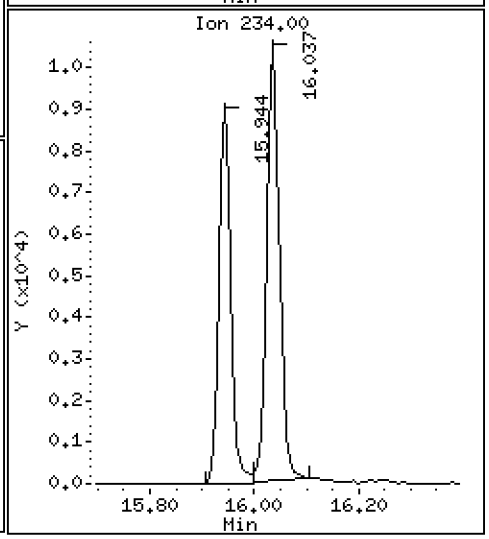












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230C.b\NT1422123071.D
Lab Smp Id: BKL0193-BSD1
Inj Date : 01-JAN-2023 02:29 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : BKL0193-BSD1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 42
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.927	6.919	(0.756)	152542	5.61333	5.613
$	2 Phenol-d5	99	8.519	8.519	(0.930)	197767	5.88885	5.889
	3 Phenol	94	8.534	8.542	(0.932)	128153	3.35829	3.358
$	5 2-Chlorophenol-d4	132	8.797	8.797	(0.960)	164819	5.84367	5.844
	4 Bis(2-Chloroethyl)ether	93	8.696	8.696	(0.949)	112319	4.27276	4.273
	6 2-Chlorophenol	128	8.828	8.827	(0.964)	105336	3.40061	3.401
	7 1,3-Dichlorobenzene	146	9.098	9.098	(0.993)	114464	3.48483	3.485
*	8 1,4-Dichlorobenzene-d4	152	9.160	9.160	(1.000)	84823	4.00000	
	9 1,4-Dichlorobenzene	146	9.191	9.191	(1.003)	112468	3.61430	3.614
$	10 1,2-Dichlorobenzene-d4	152	9.525	9.525	(1.040)	69841	3.62297	3.623
	12 1,2-Dichlorobenzene	146	9.548	9.556	(1.042)	109602	3.59146	3.591
	11 Benzyl alcohol	108	9.432	9.440	(1.030)	60341	3.55196	3.552
	14 2,2'-oxybis(1-Chloropropane)	121	9.735	9.735	(1.063)	35557	4.01877	4.019
	13 2-Methylphenol	108	9.657	9.665	(1.054)	85407	3.08007	3.080
	17 Hexachloroethane	117	10.146	10.154	(1.108)	41078	3.58927	3.589
	16 N-Nitroso-di-n-propylamine	70	9.991	9.998	(1.091)	72507	4.29248	4.292
	15 4-Methylphenol	108	9.936	9.936	(1.085)	97670	3.33895	3.339
$	18 Nitrobenzene-d5	82	10.255	10.262	(0.879)	111966	4.28550	4.285
	19 Nitrobenzene	77	10.293	10.301	(0.882)	107003	4.12385	4.124
	20 Isophorone	82	10.744	10.751	(0.921)	205440	6.21226	6.212
	21 2-Nitrophenol	139	10.930	10.937	(0.937)	61576	3.76288	3.763
	22 2,4-Dimethylphenol	107	10.984	10.992	(0.942)	233040	8.60530	8.605
	23 Bis(2-Chloroethoxy)methane	93	11.178	11.186	(0.958)	117407	4.56370	4.564
	24 Benzoic acid	105	11.178	11.209	(0.958)	278563	16.2861	16.29
	25 2,4-Dichlorophenol	162	11.395	11.395	(0.977)	329411	14.4304	14.43
	26 1,2,4-Trichlorobenzene	180	11.581	11.581	(0.993)	86031	3.48546	3.485
*	27 Naphthalene-d8	136	11.666	11.673	(1.000)	309397	4.00000	
	28 Naphthalene	128	11.704	11.712	(1.003)	292709	3.84429	3.844
	29 4-Chloroaniline	127	11.835	11.835	(1.015)	315898	10.0603	10.06
	30 Hexachlorobutadiene	225	12.075	12.075	(1.035)	45967	3.75345	3.753
	31 4-Chloro-3-methylphenol	107	12.802	12.810	(1.097)	326881	15.1741	15.17
	32 2-Methylnaphthalene	142	13.112	13.120	(1.124)	208534	3.73370	3.734
	33 Hexachlorocyclopentadiene	237	13.584	13.584	(0.888)	106259	8.84523	8.845

		QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
34	2,4,6-Trichlorophenol	196	13.739	13.739	(0.898)	201731	15.2084	15.21
35	2,4,5-Trichlorophenol	196	13.816	13.816	(0.903)	218438	14.2687	14.27
$ 36	2-Fluorobiphenyl	172	13.894	13.901	(0.908)	221307	4.14182	4.142
37	2-Chloronaphthalene	162	14.110	14.118	(0.922)	180731	3.97598	3.976
38	2-Nitroaniline	65	14.366	14.373	(0.939)	213367	17.8541	17.85
39	Dimethylphthalate	163	14.799	14.799	(0.967)	209977	4.68515	4.685
40	Acenaphthylene	152	14.985	14.993	(0.979)	292690	4.22292	4.223
41	2,6-Dinitrotoluene	165	14.938	14.938	(0.976)	169763	16.7844	16.78
* 42	Acenaphthene-d10	164	15.302	15.310	(1.000)	158920	4.00000	
43	3-Nitroaniline	138	15.225	15.225	(0.995)	172658	14.0450	14.04
44	Acenaphthene	153	15.372	15.371	(1.005)	186604	4.34079	4.341
45	2,4-Dinitrophenol	184	15.433	15.441	(1.009)	105087	11.9071	11.91
46	Dibenzofuran	168	15.696	15.704	(1.026)	261693	4.05941	4.059
47	4-Nitrophenol	109	15.549	15.557	(1.016)	81211	13.3807	13.38
48	2,4-Dinitrotoluene	165	15.750	15.750	(1.029)	220155	15.8646	15.86
50	Diethylphthalate	149	16.261	16.268	(1.063)	328604	5.39431	5.394
49	Fluorene	166	16.415	16.423	(1.073)	322490	4.70244	4.702
51	4-Chlorophenyl-phenylether	204	16.400	16.407	(1.072)	154511	4.60197	4.602
52	4-Nitroaniline	138	16.500	16.500	(1.078)	213550	13.9576	13.96
53	4,6-Dinitro-2-methylphenol	198	16.592	16.600	(0.904)	240532	21.1805	21.18
54	N-Nitrosodiphenylamine	169	16.646	16.654	(0.907)	197052	4.45289	4.453
$ 55	2,4,6-Tribromophenol	330	16.947	16.955	(1.108)	46672	6.07035	6.070
56	4-Bromophenyl-phenylether	248	17.410	17.410	(0.949)	74055	4.41941	4.419
57	Hexachlorobenzene	284	17.727	17.734	(0.966)	74286	4.03976	4.040
58	Pentachlorophenol	266	18.090	18.090	(0.986)	58859	7.13116	7.131
* 59	Phenanthrene-d10	188	18.353	18.361	(1.000)	257888	4.00000	
60	Phenanthrene	178	18.400	18.408	(1.003)	285890	4.25184	4.252
61	Anthracene	178	18.493	18.500	(1.008)	244457	3.80836	3.808
62	Carbazole	167	18.825	18.825	(1.026)	245016	3.94844	3.948
63	Di-n-butylphthalate	149	19.607	19.614	(1.068)	353250	4.84658	4.847
64	Fluoranthene	202	20.783	20.791	(0.888)	311028	4.54495	4.545
65	Pyrene	202	21.208	21.216	(0.906)	320127	4.44916	4.449
$ 66	Terphenyl-d14	244	21.487	21.495	(0.918)	225340	4.41681	4.417
67	Butylbenzylphthalate	149	22.401	22.408	(0.957)	147564	5.33509	5.335
68	Benzo(a)anthracene	228	23.368	23.376	(0.999)	293742	4.56235	4.562
* 69	Chrysene-d12	240	23.399	23.399	(1.000)	212537	4.00000	
70	3,3'-Dichlorobenzidine	252	23.314	23.322	(0.996)	291079	14.7685	14.77
71	Chrysene	228	23.438	23.446	(1.002)	272423	4.47946	4.479
72	bis(2-Ethylhexyl)phthalate	149	23.423	23.430	(0.959)	218617	5.54099	5.541
* 134	Di-n-octylphthalate-d4	153	24.414	24.421	(1.000)	355260	4.00000	
73	Di-n-octylphthalate	149	24.429	24.429	(1.001)	382592	4.48643	4.486
74	Benzo(b)fluoranthene	252	25.288	25.296	(0.970)	282593	5.00956	5.010
75	Benzo(k)fluoranthene	252	25.335	25.335	(0.971)	276047	4.80794	4.808
76	Benzo(a)pyrene	252	25.962	25.970	(0.996)	214652	4.57736	4.577
* 77	Perylene-d12	264	26.078	26.086	(1.000)	179497	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.838	28.838	(1.106)	139656	2.61978	2.620
79	Dibenzo(a,h)anthracene	278	28.846	28.853	(1.106)	123720	2.73112	2.731
80	Benzo(g,h,i)perylene	276	29.646	29.653	(1.137)	94375	2.11330	2.113
90	N-Nitrosodimethylamine	74	4.734	4.718	(0.517)	203950	10.8974	10.90
91	Aniline	93	8.611	8.611	(0.940)	375705	10.1116	10.11
93	Benzidine	184	Compound Not Detected.					
103	Pyridine	79	4.765	4.741	(0.520)	168797	2.83835	2.838
105	1-methylnaphthalene	142	13.336	13.344	(1.143)	199857	3.72423	3.724
111	Azobenzene (1,2-DP-Hydrazine)	77	16.724	16.731	(1.093)	282308	4.78360	4.784

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.335	25.335	(0.971)	534627	9.80298	9.803
120 2,3,4,6-Tetrachlorophenol	232	16.036	16.044	(1.048)	35947	3.13273	3.133

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123071.D
Lab Smp Id: BKL0193-BSD1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Misc Info:

Calibration Date: 31-DEC-2022
Calibration Time: 23:30
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138755	69378	277510	84823	-38.87
27 Naphthalene-d8	501723	250862	1003446	309397	-38.33
42 Acenaphthene-d10	275234	137617	550468	158920	-42.26
59 Phenanthrene-d10	440085	220043	880170	257888	-41.40
69 Chrysene-d12	384795	192398	769590	212537	-44.77
134 Di-n-octylphthala	674530	337265	1349060	355260	-47.33
77 Perylene-d12	336665	168333	673330	179497	-46.68

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	-0.07
42 Acenaphthene-d10	15.31	14.81	15.81	15.30	-0.05
59 Phenanthrene-d10	18.36	17.86	18.86	18.35	-0.04
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.41	-0.03
77 Perylene-d12	26.09	25.59	26.59	26.08	-0.03

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

REVIEW SUMMARY FOR FILE - NT1422123071.D

Lab ID: BKL0193-BSD1
nt14.i, 20221230C.b\ABN.m,   01-JAN-2023 02:29

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1422123066.D

On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

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

MS / MS DUPLICATE RECOVERY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	01/01/23 06:41
Batch:	BKL0193	Laboratory ID:	BKL0193-MS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike
Initial/Final:	13.25 g / 1 mL	Source Sample:	LDW22-SS766

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	Q	MS CONCENTRATION (ug/kg dry)	Q	MS % REC. #	QC LIMITS REC.
Phenol	500	5.5	J	350		68.9	34 - 120
4-Methylphenol	500	ND	U	354		70.9	29 - 120
bis(2-Ethylhexyl)phthalate	500	18.7	J	561		108	34 - 130

* Values outside of QC limits

MS / MS DUPLICATE RECOVERY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	01/01/23 07:17
Batch:	BKL0193	Laboratory ID:	BKL0193-MSD1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike Dup
Initial/Final:	13.25 g / 1 mL	Source Sample:	LDW22-SS766

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	Q	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	500	352		69.4	0.725	30	34 - 120
4-Methylphenol	500	355		71.0	0.247	30	29 - 120
bis(2-Ethylhexyl)phthalate	500	568		110	1.29	30	34 - 130

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123078.D

Date : 01-JAN-2023 06:41

Client ID:

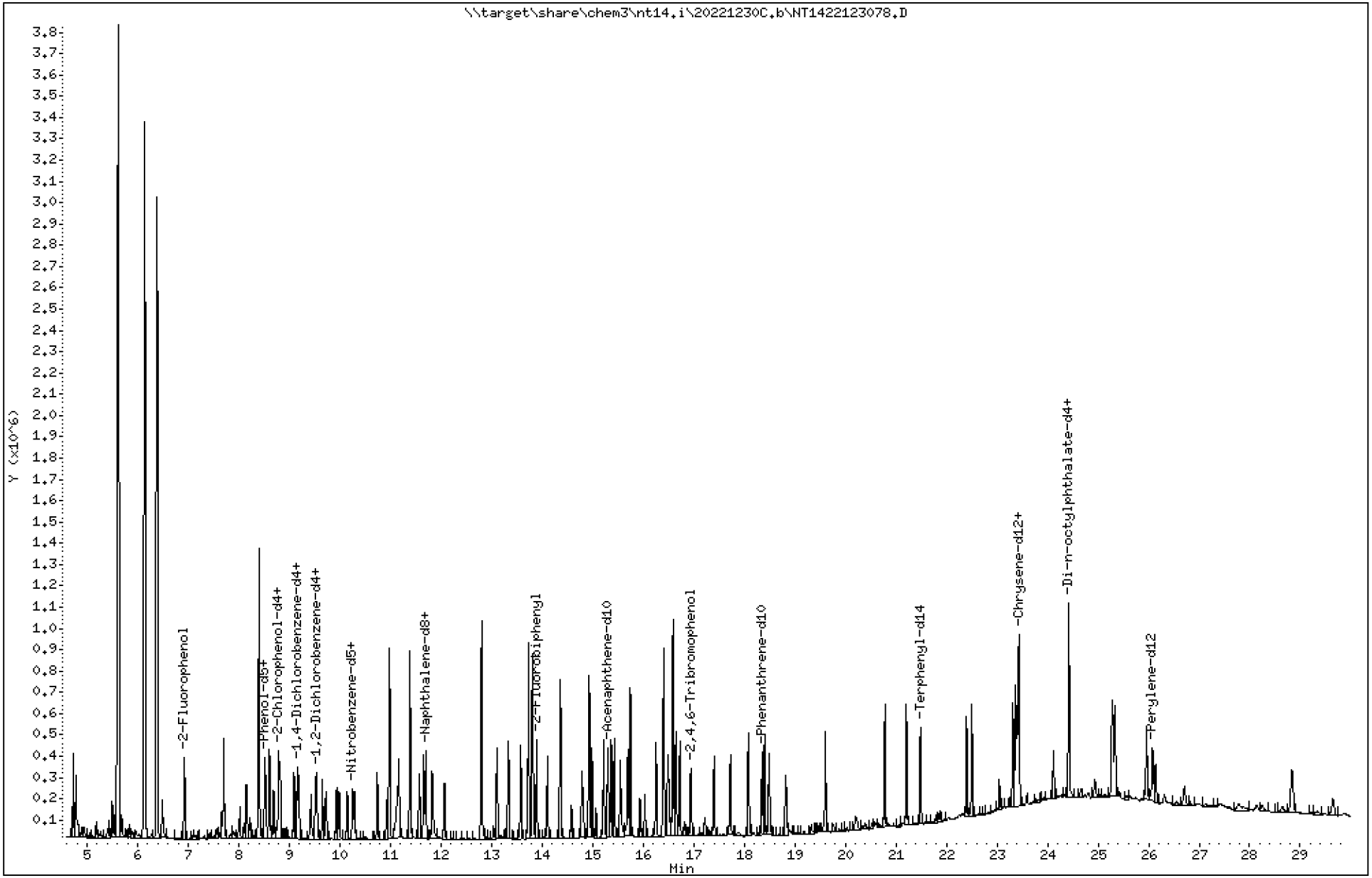
Instrument: nt14.i

Sample Info: BKL0193-MS1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

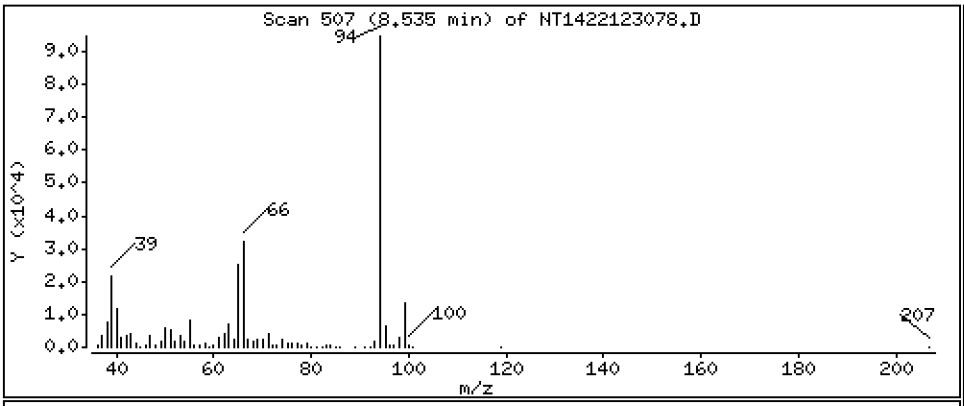
Operator: VTS

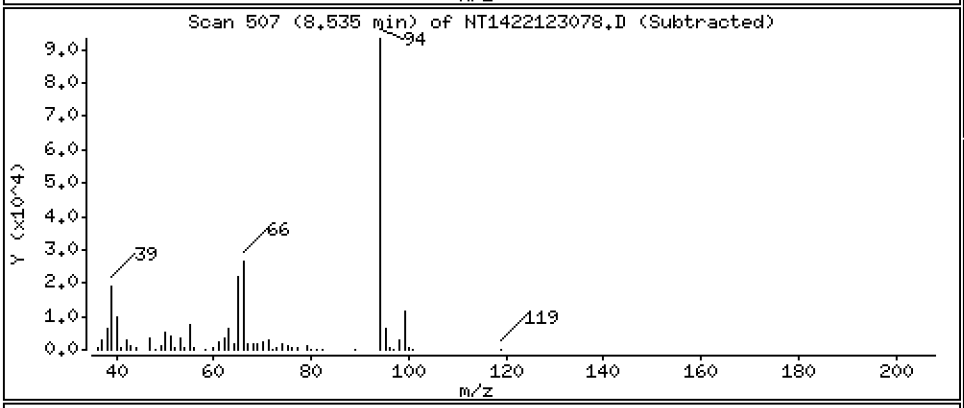
Column phase: ZB-5msi

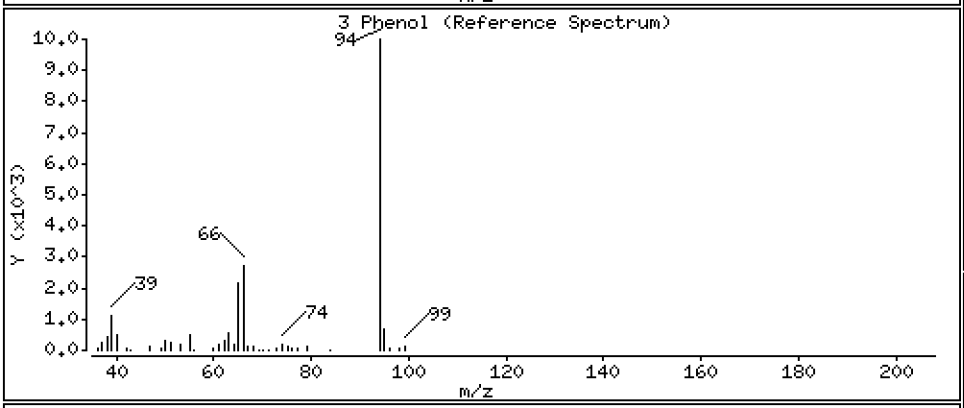
Column diameter: 0.25

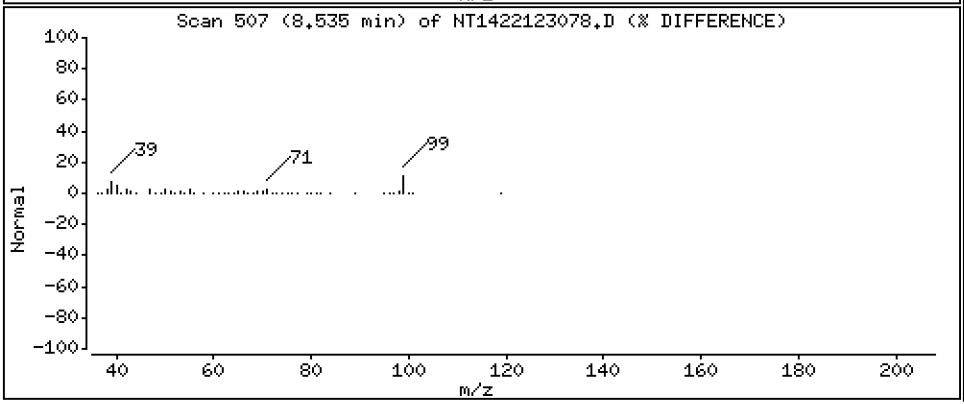
3 Phenol

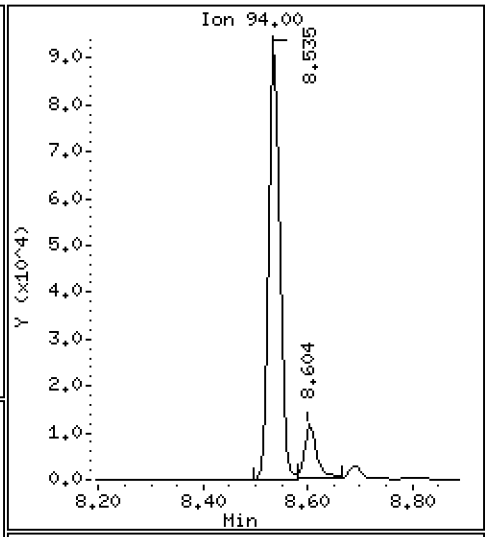
Concentration: 3.498 ug/mL

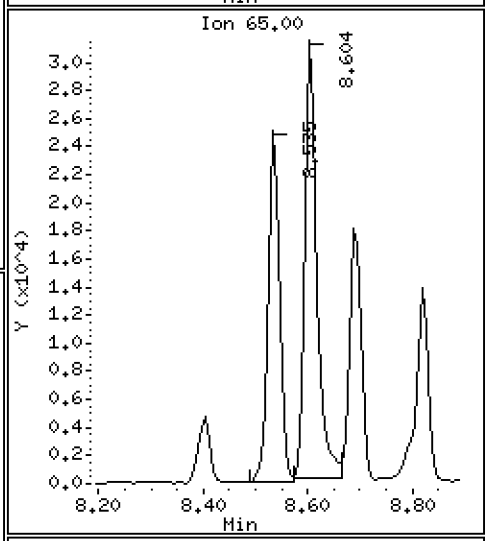


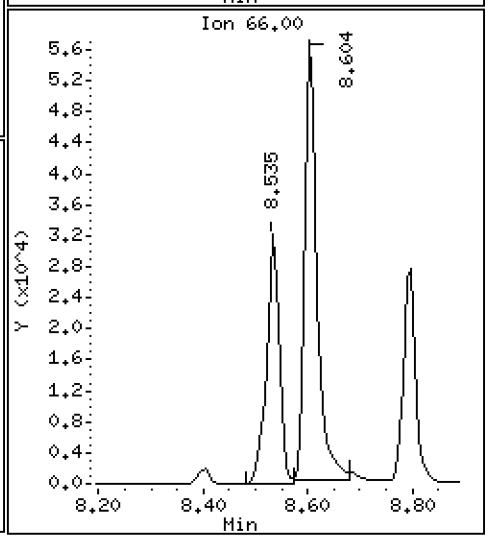












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123078.D

Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

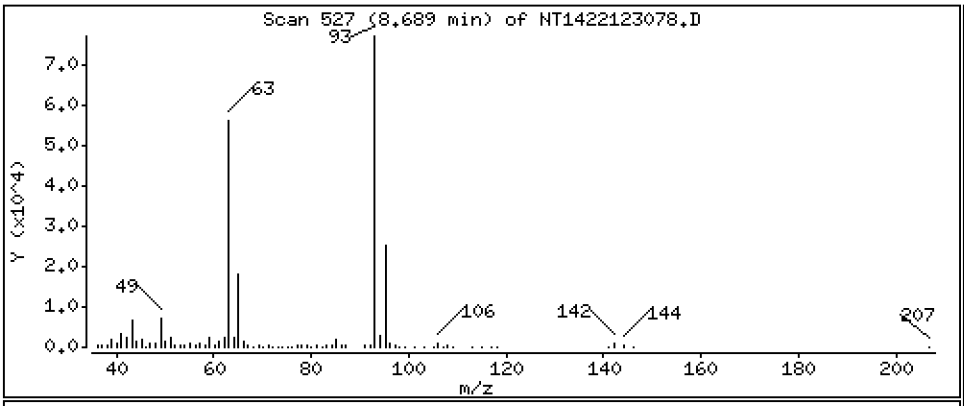
Operator: VTS

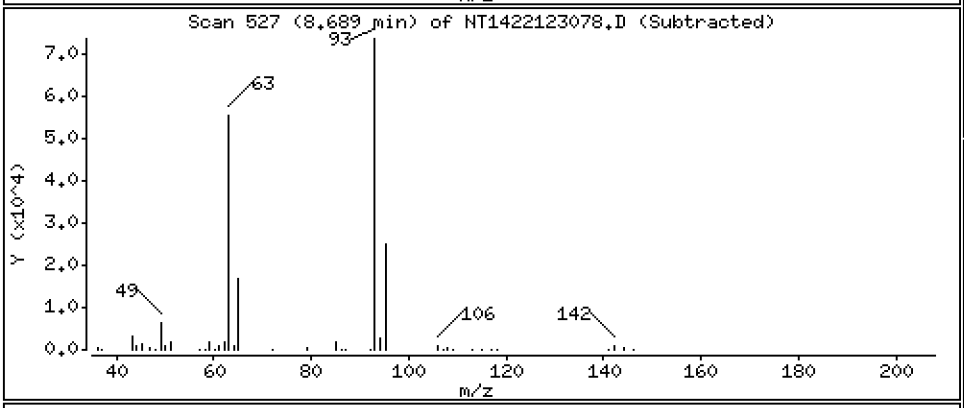
Column phase: ZB-5msi

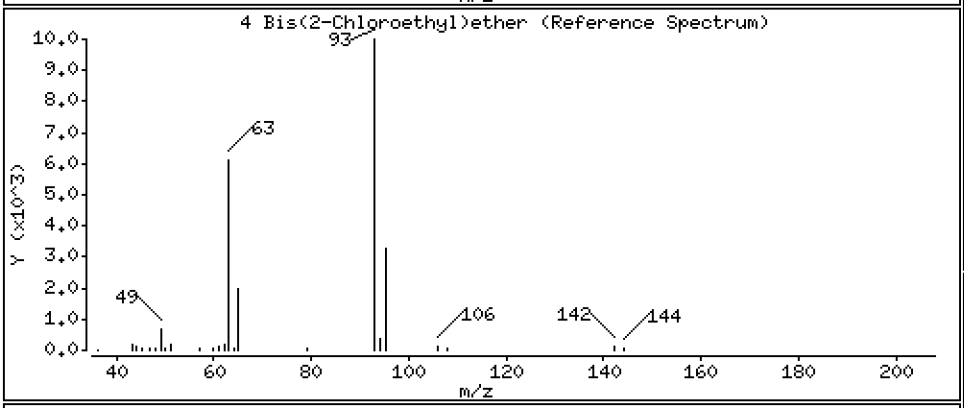
Column diameter: 0.25

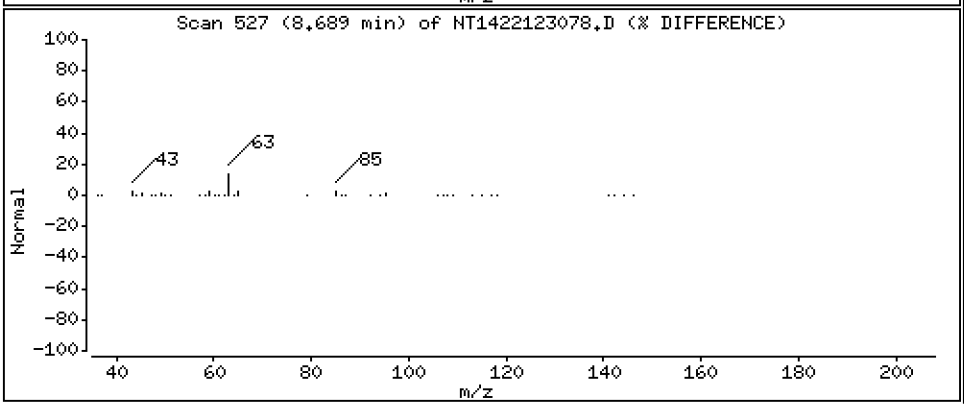
4 Bis(2-Chloroethyl)ether

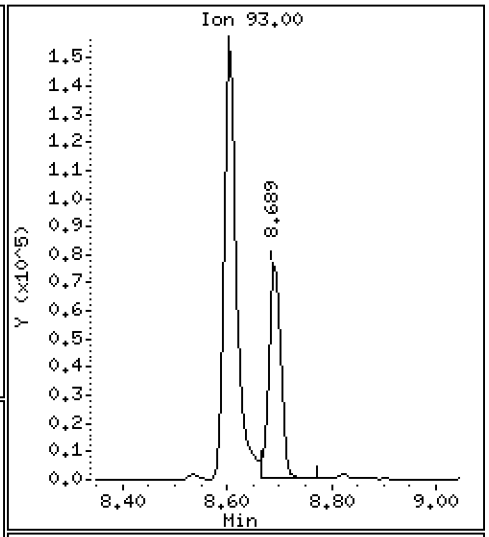
Concentration: 4.447 ug/mL

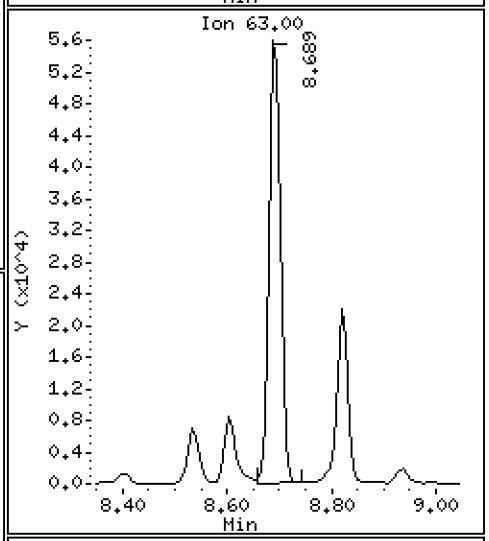


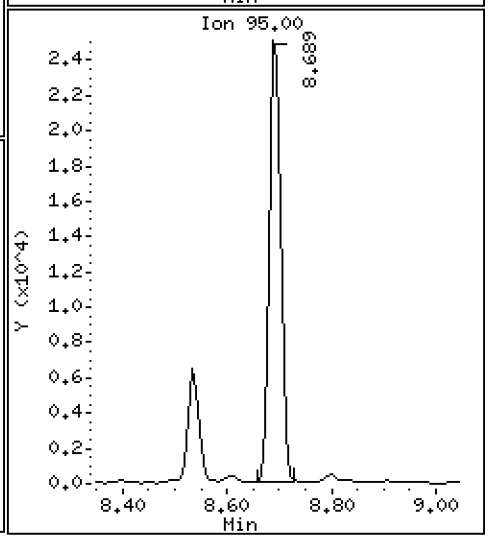












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

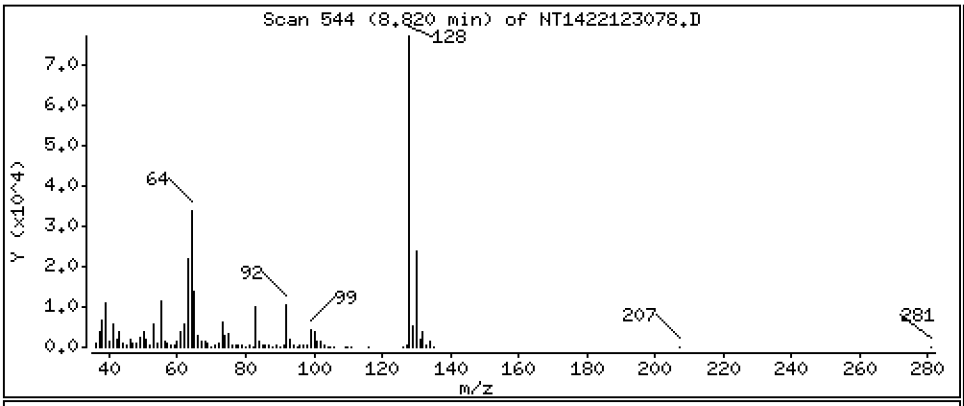
Operator: VTS

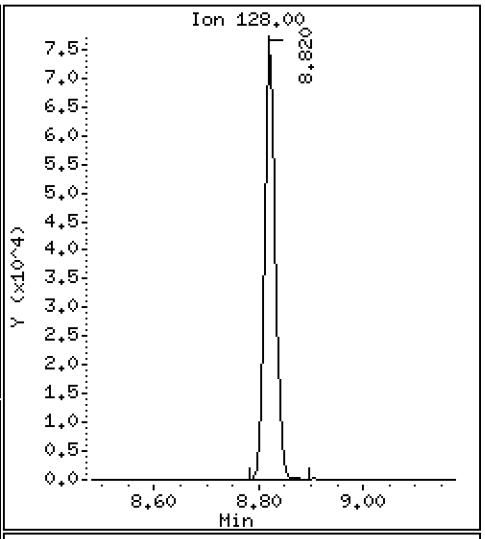
Column phase: ZB-5msi

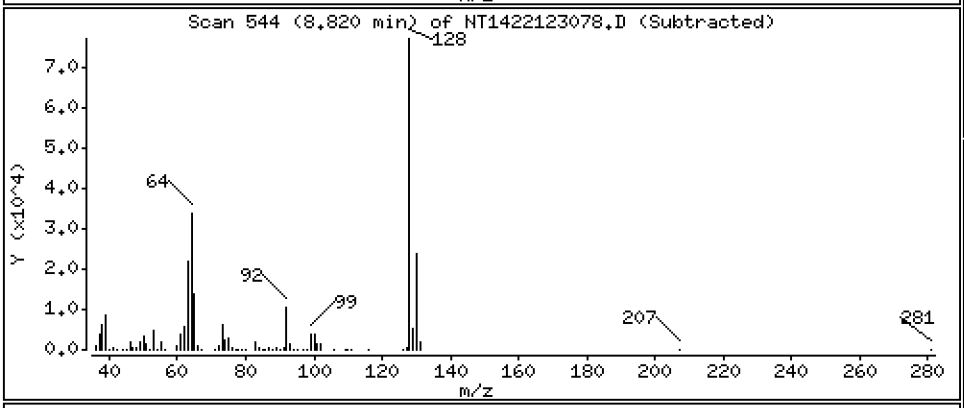
Column diameter: 0.25

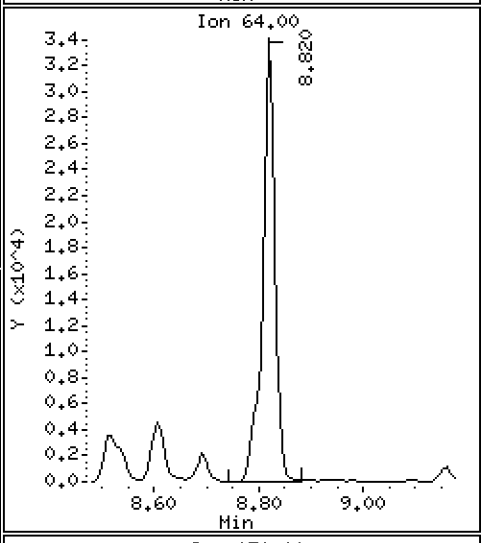
6 2-Chlorophenol

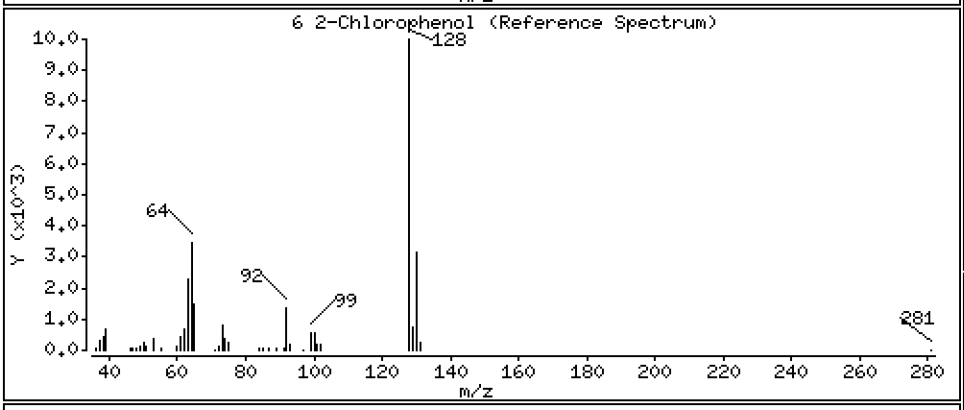
Concentration: 3.594 ug/mL

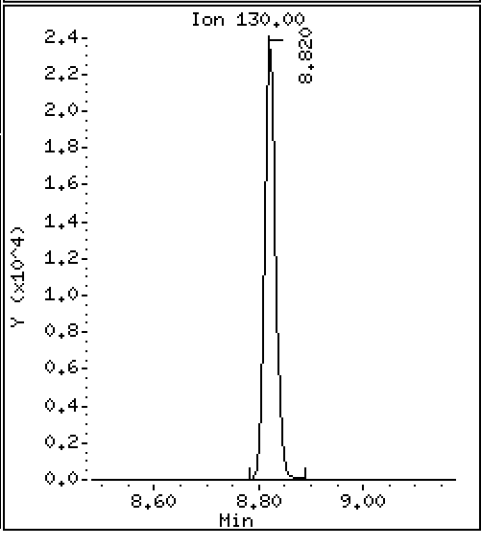


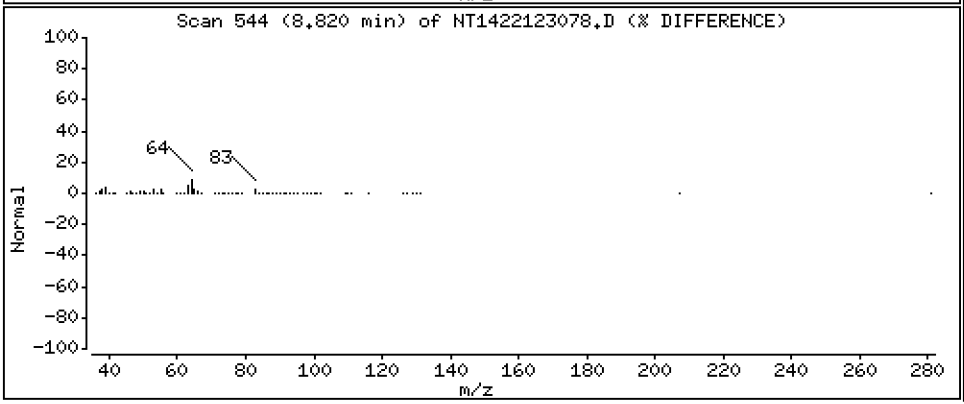












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

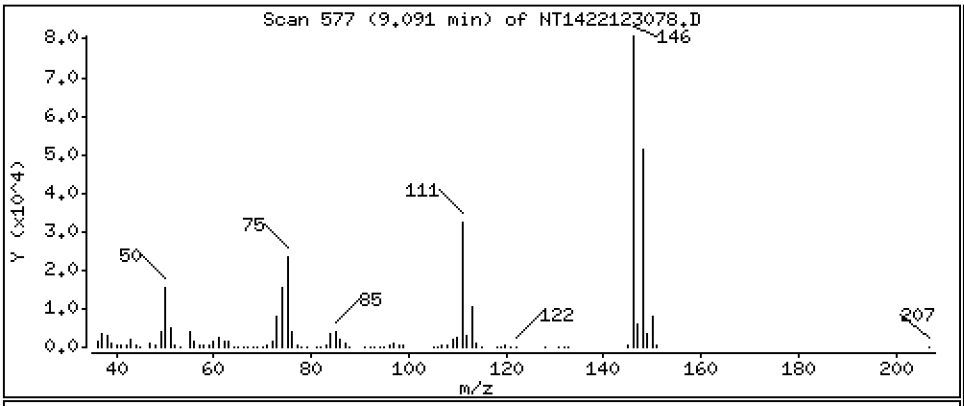
Operator: VTS

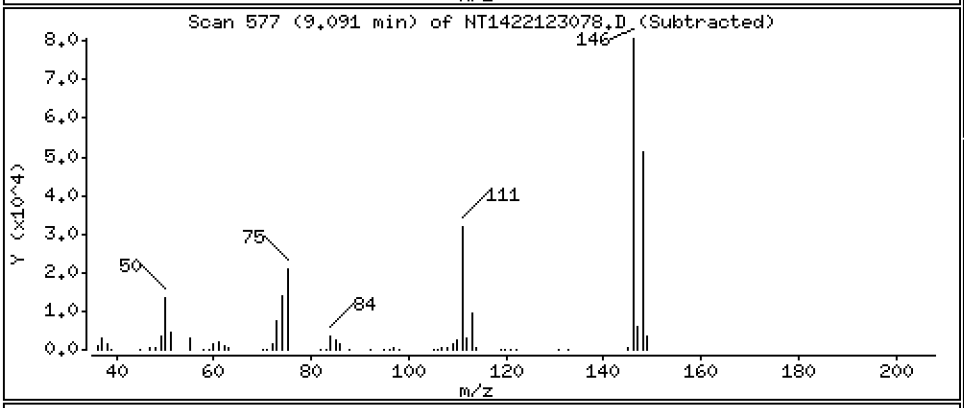
Column phase: ZB-5msi

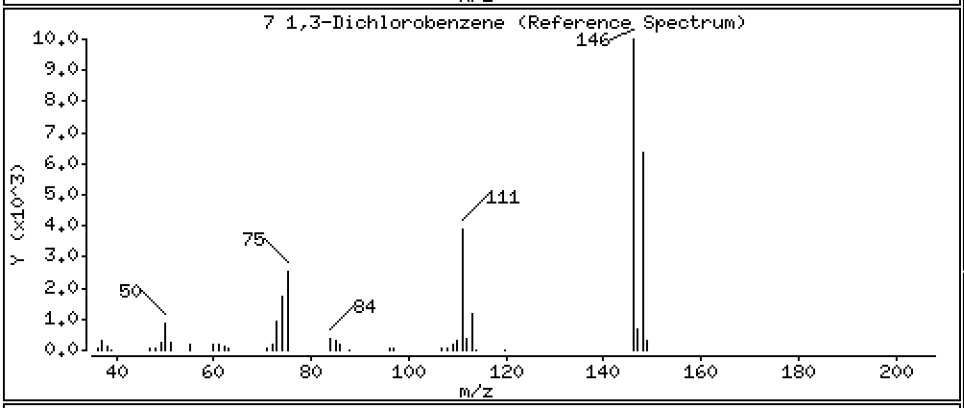
Column diameter: 0.25

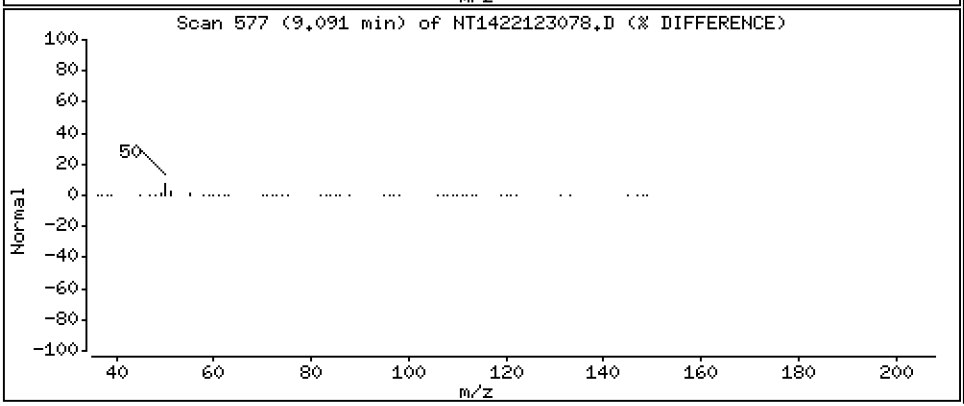
7 1,3-Dichlorobenzene

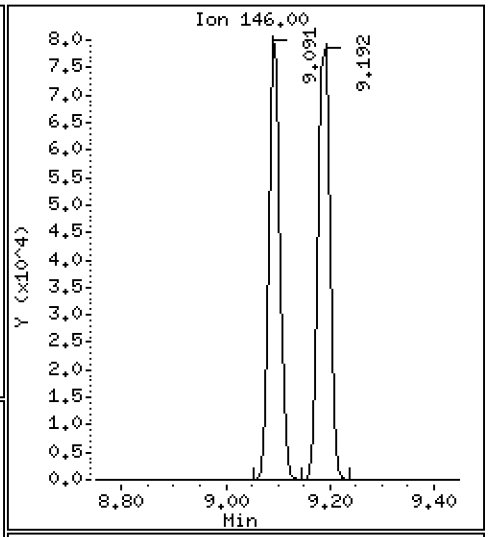
Concentration: 3.674 ug/mL

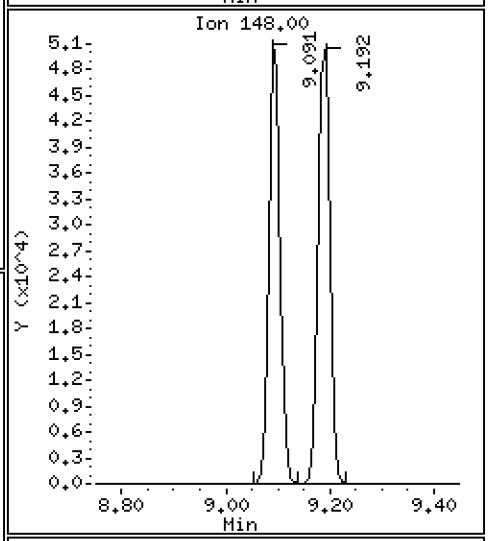


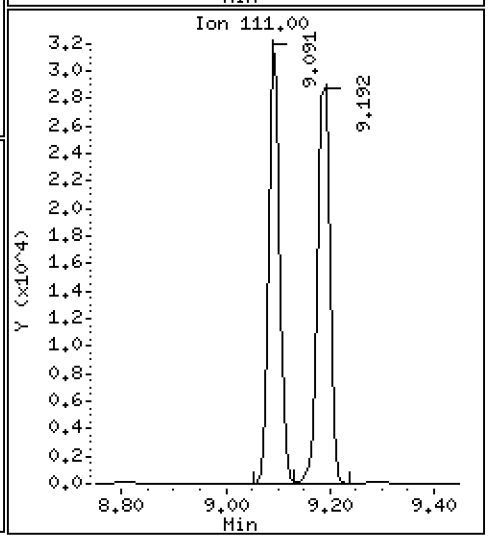












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

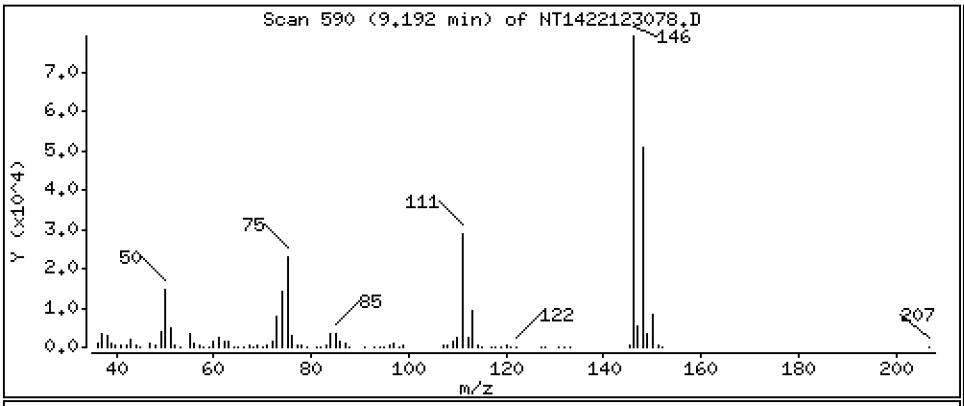
Operator: VTS

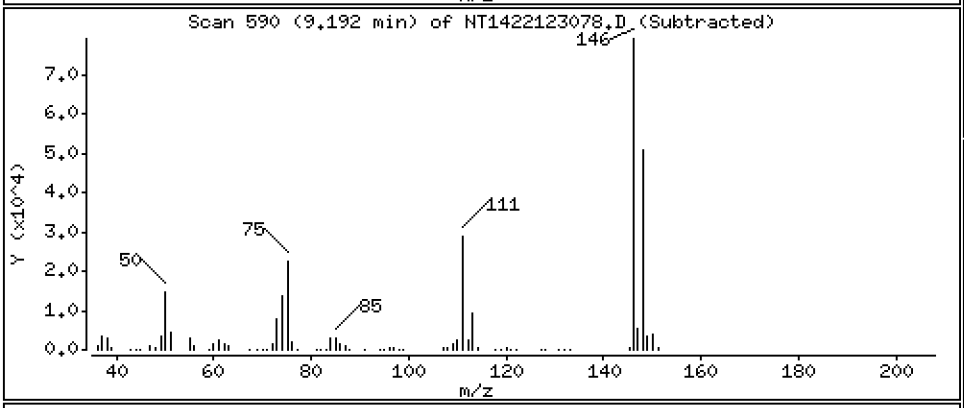
Column phase: ZB-5msi

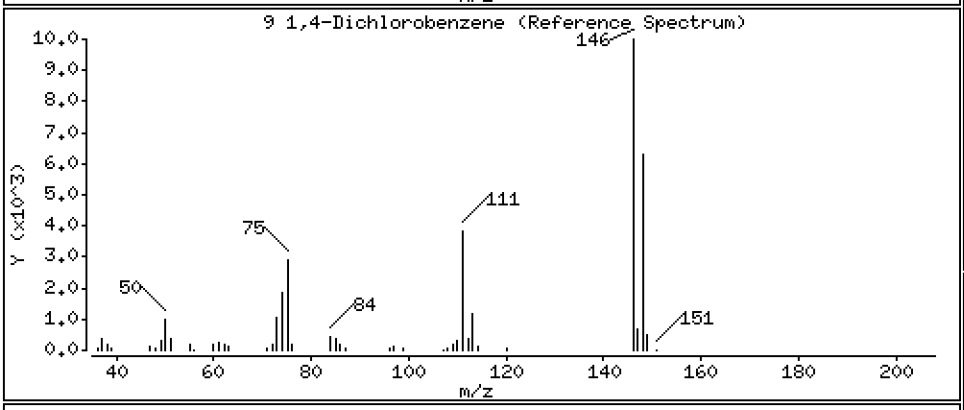
Column diameter: 0.25

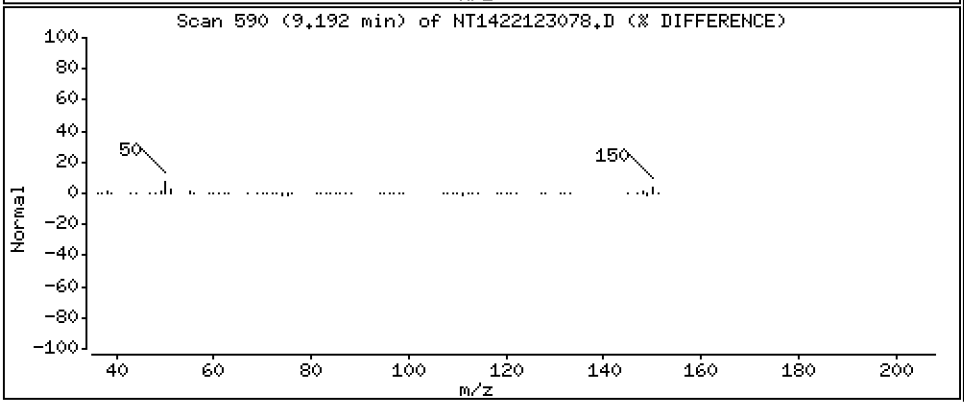
9 1,4-Dichlorobenzene

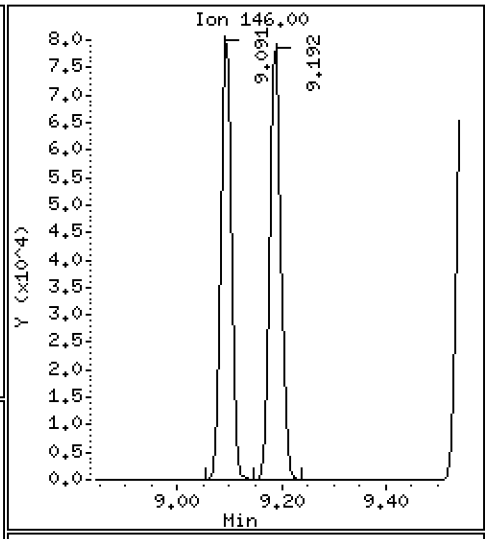
Concentration: 3.808 ug/mL

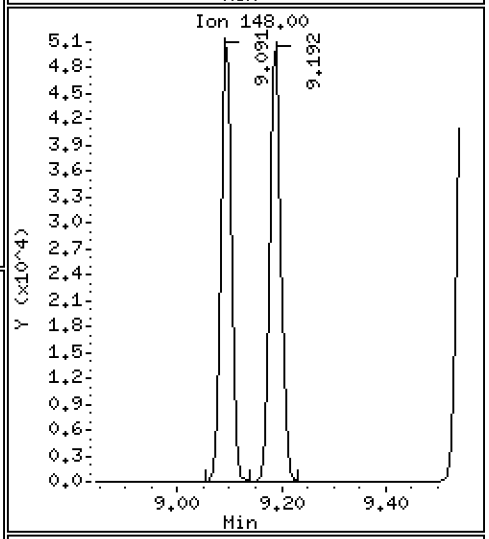


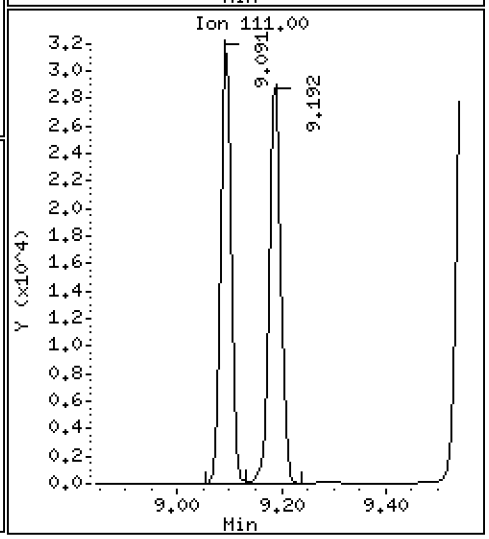












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

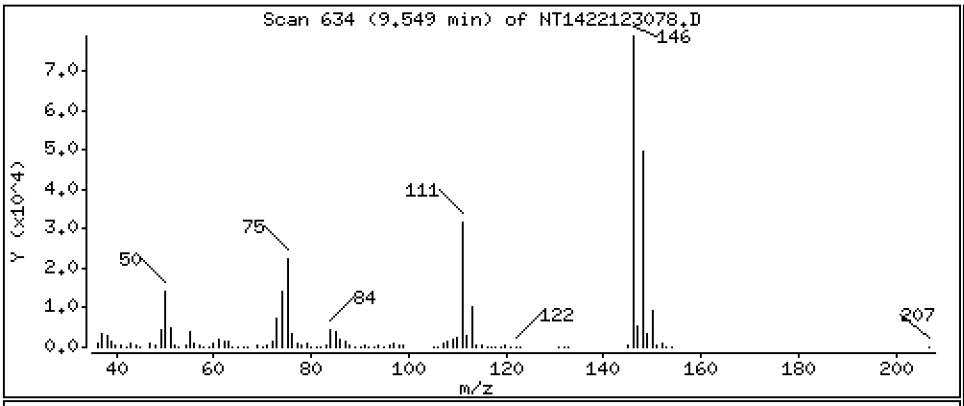
Operator: VTS

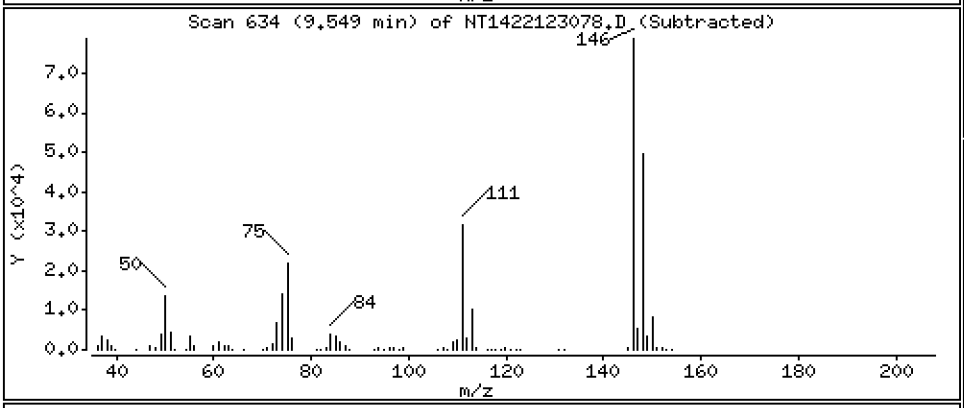
Column phase: ZB-5msi

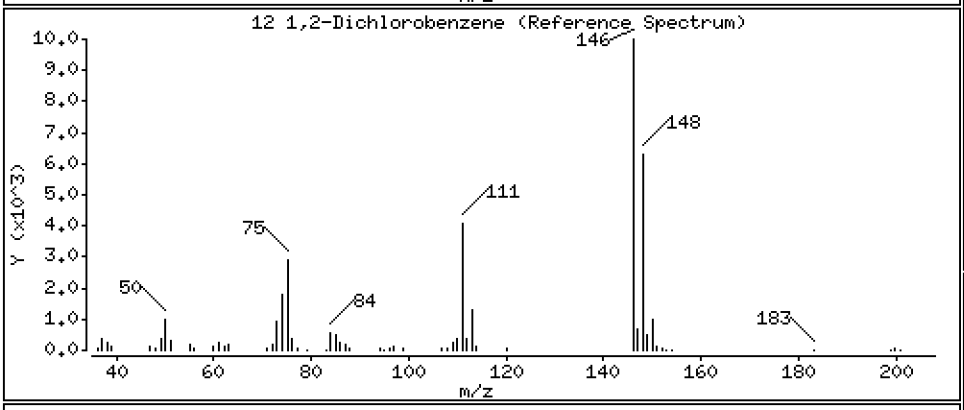
Column diameter: 0.25

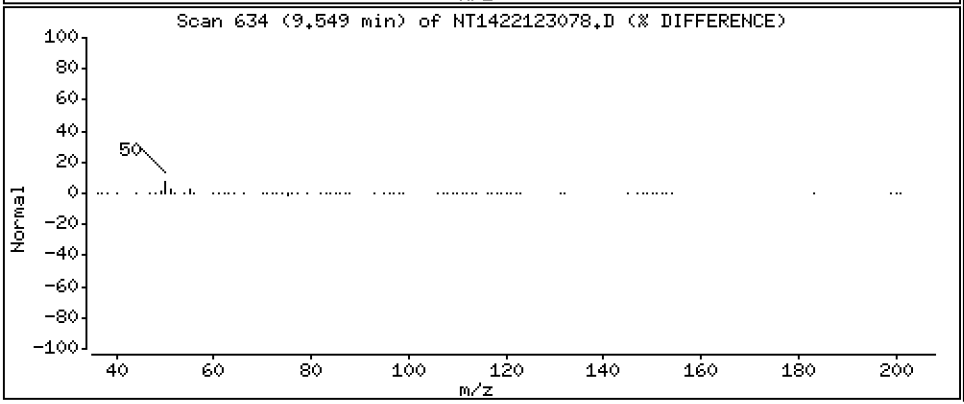
12 1,2-Dichlorobenzene

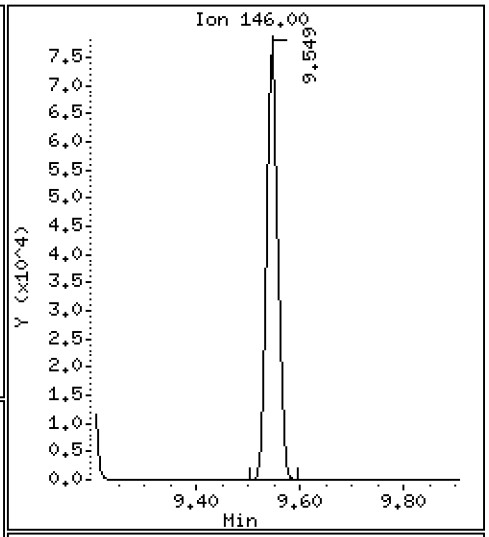
Concentration: 3.793 ug/mL

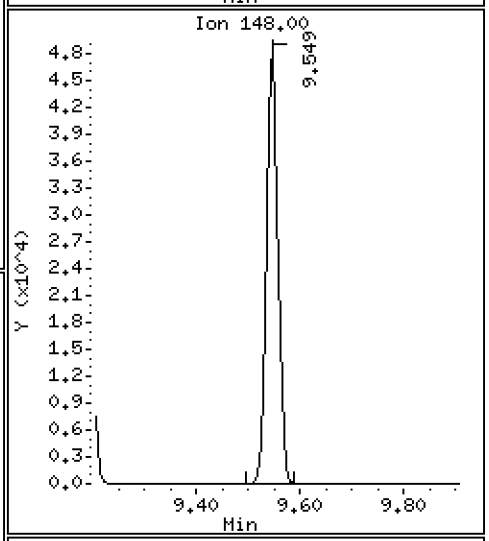


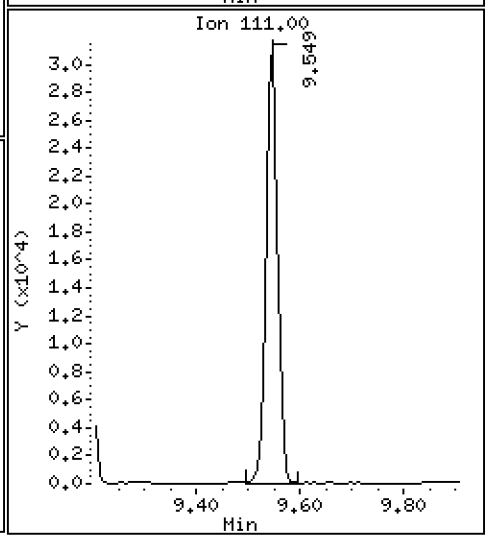












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

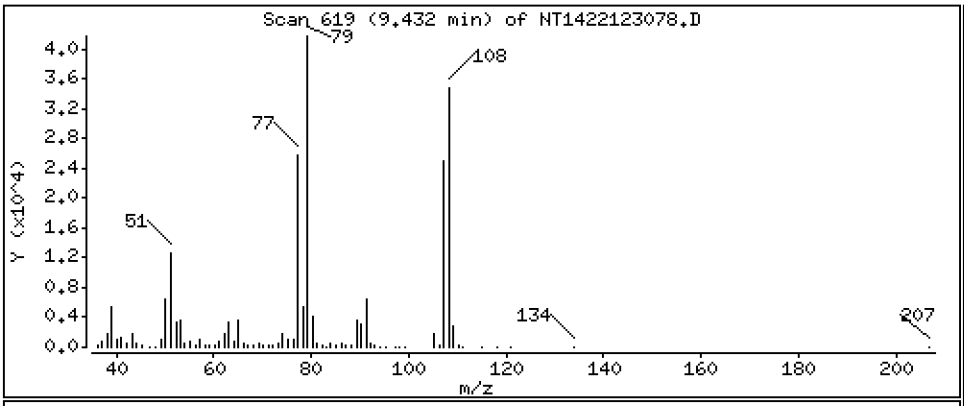
Operator: VTS

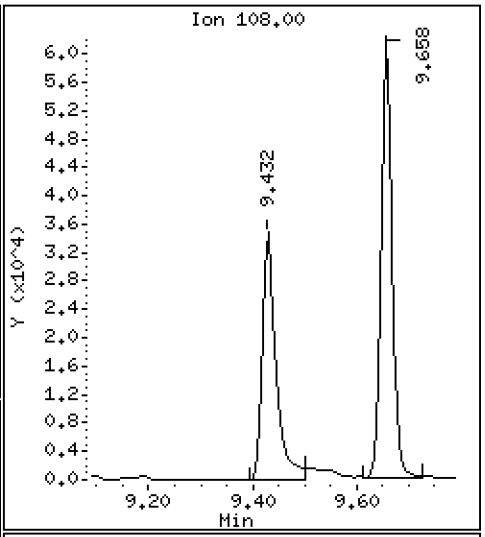
Column phase: ZB-5msi

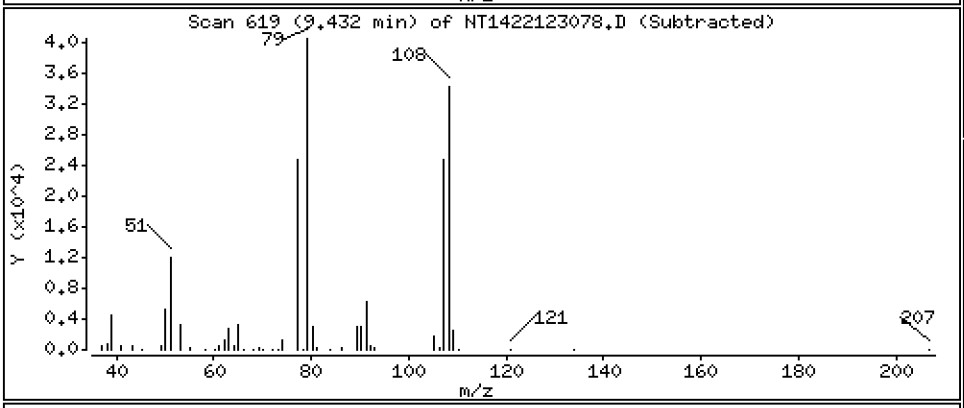
Column diameter: 0.25

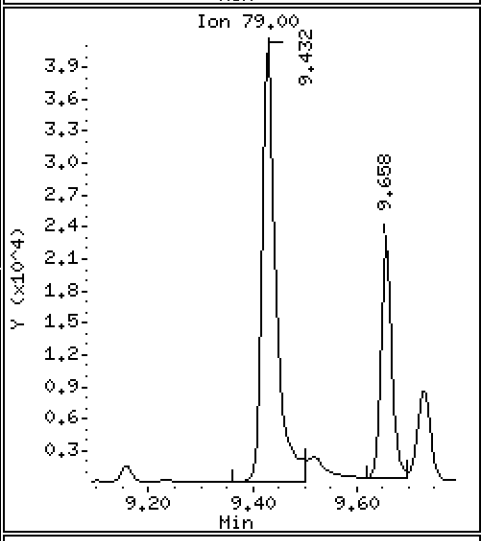
11 Benzyl alcohol

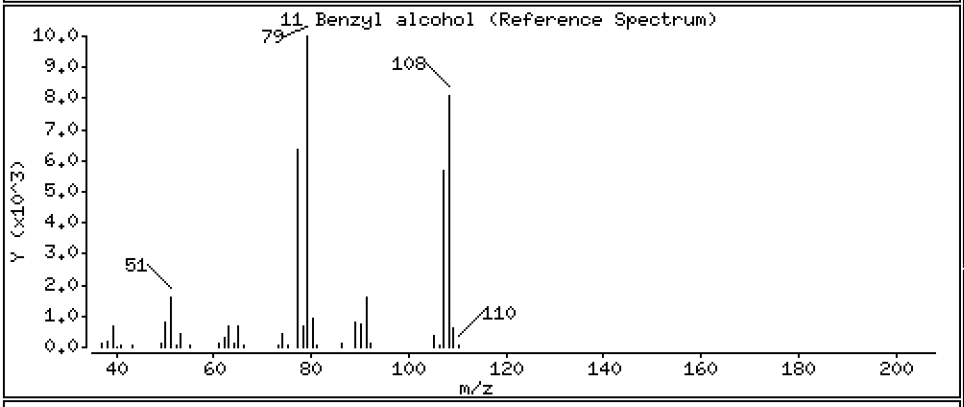
Concentration: 3.720 ug/mL

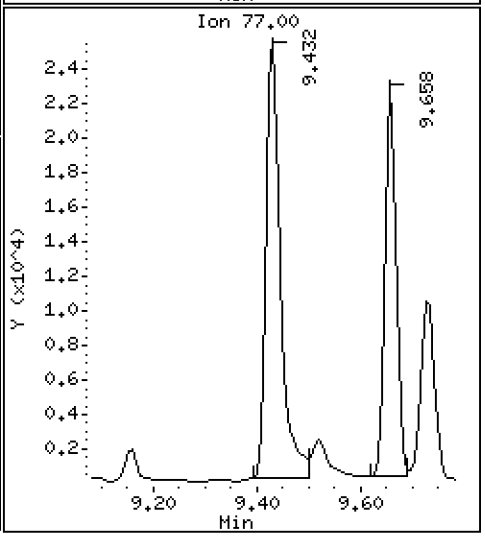


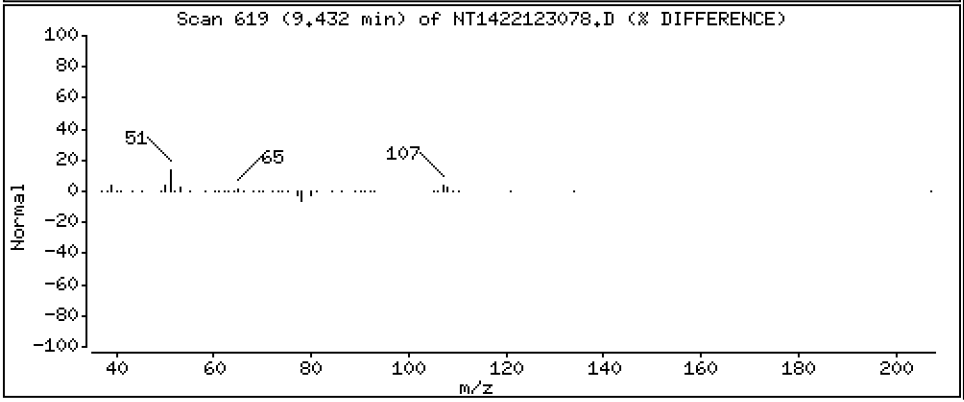












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

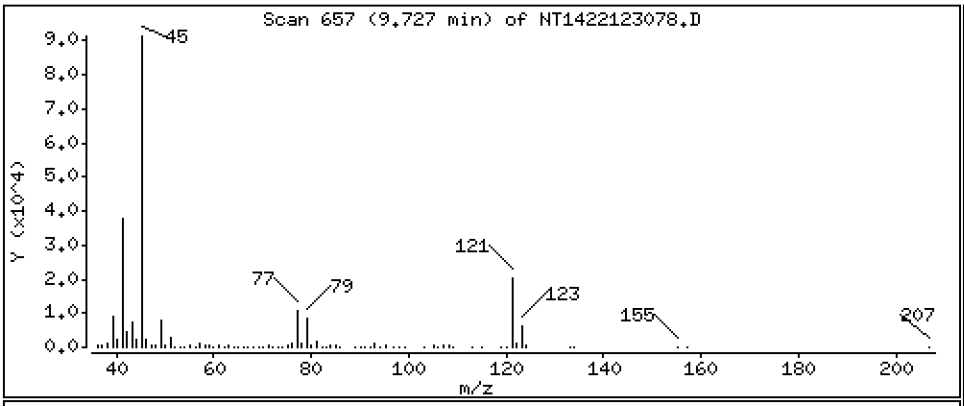
Operator: VTS

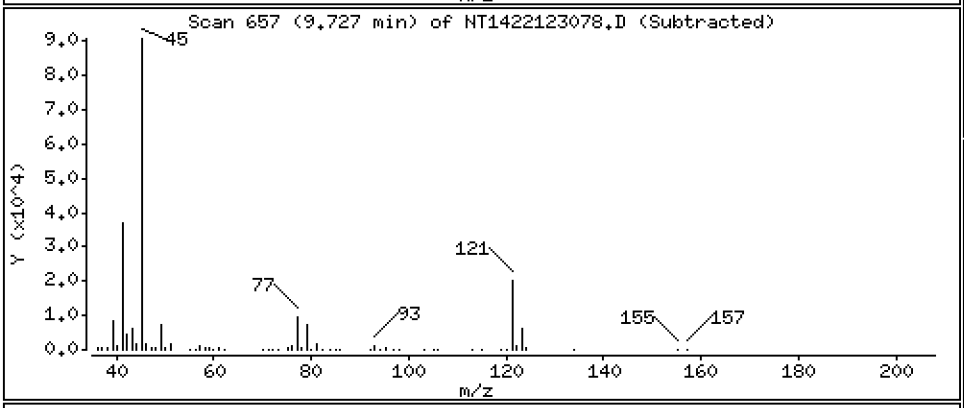
Column phase: ZB-5msi

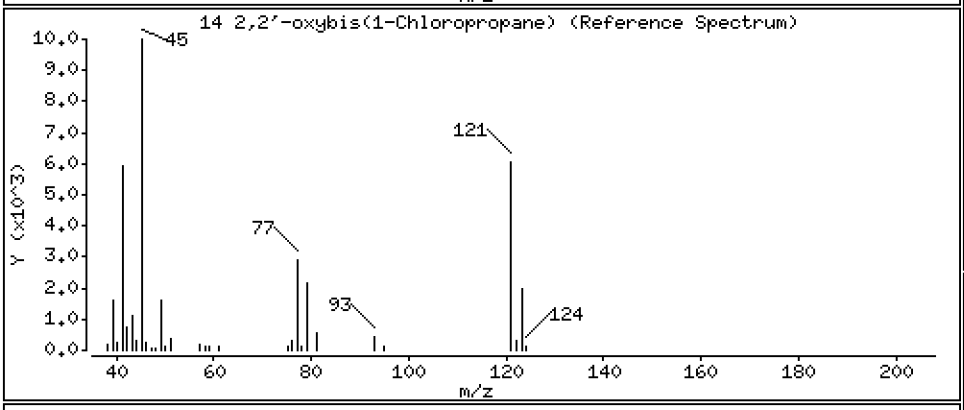
Column diameter: 0.25

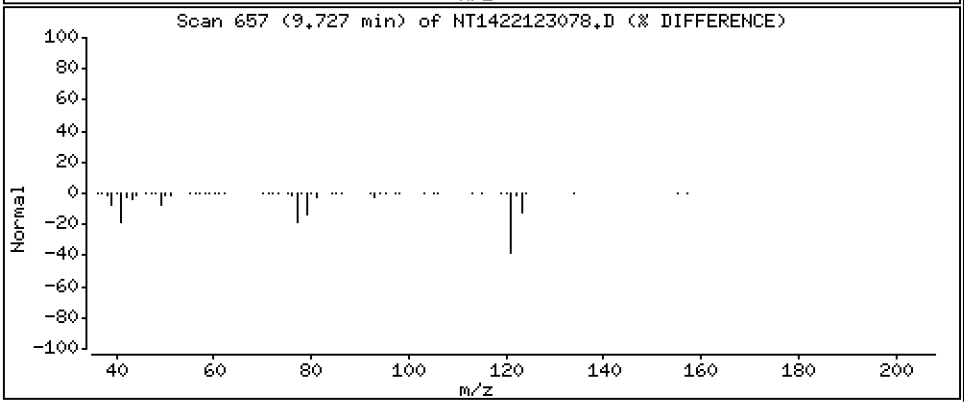
14 2,2'-oxybis(1-Chloropropane)

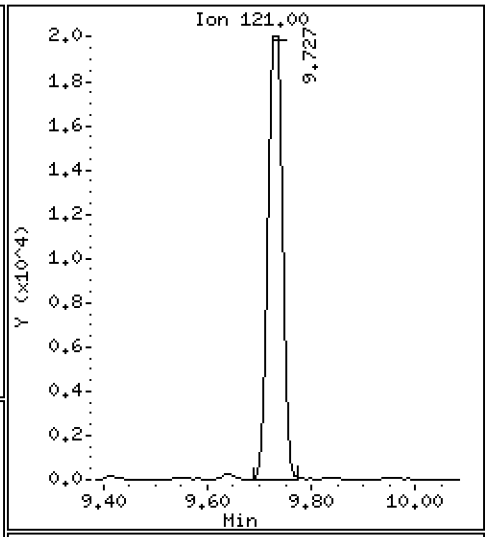
Concentration: 4.188 ug/mL

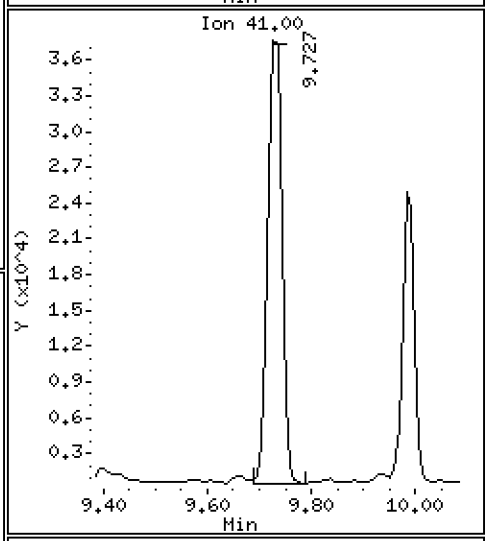


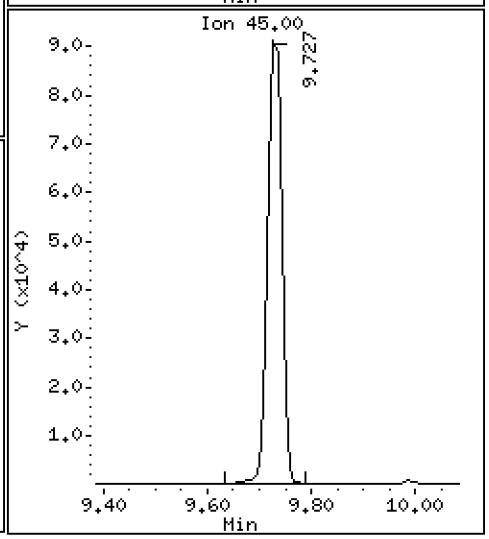












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

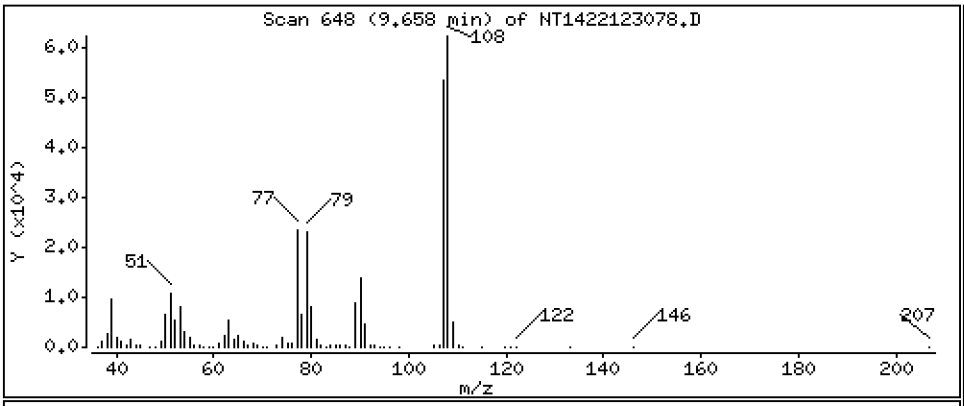
Operator: VTS

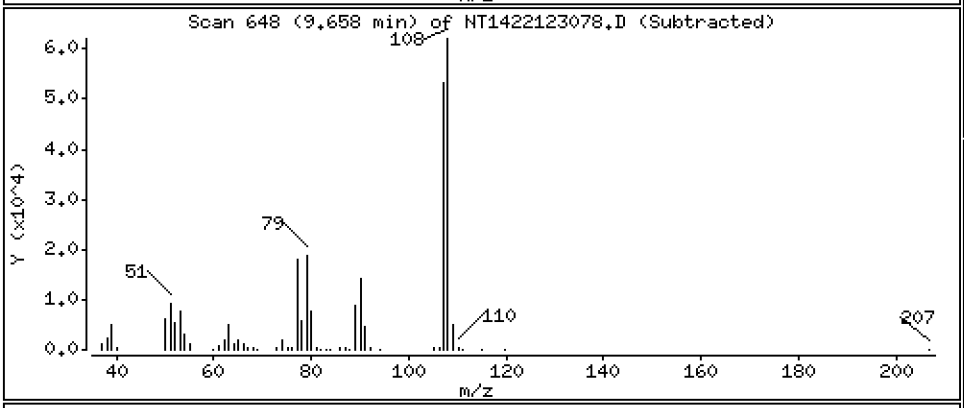
Column phase: ZB-5msi

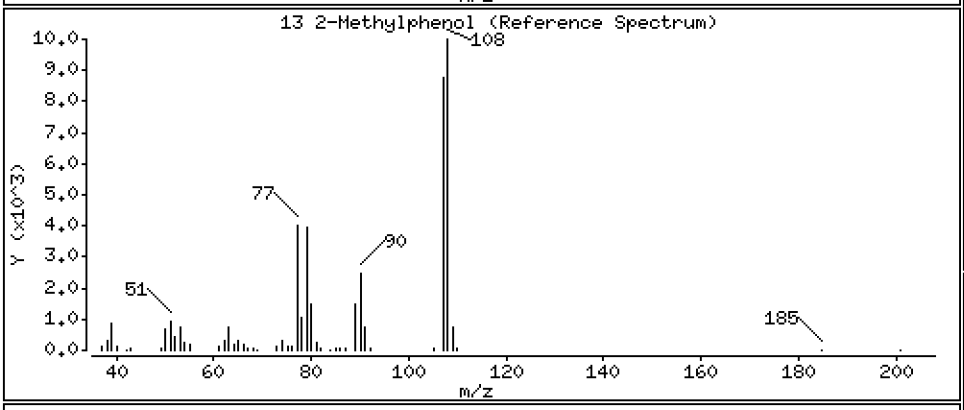
Column diameter: 0.25

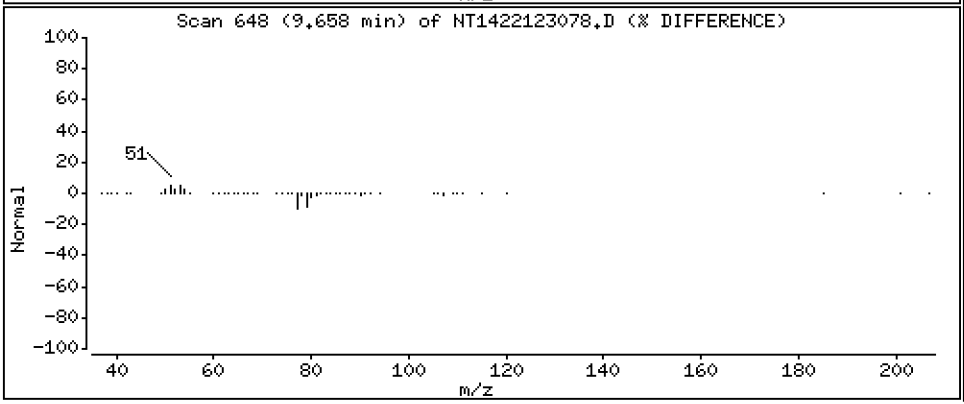
13 2-Methylphenol

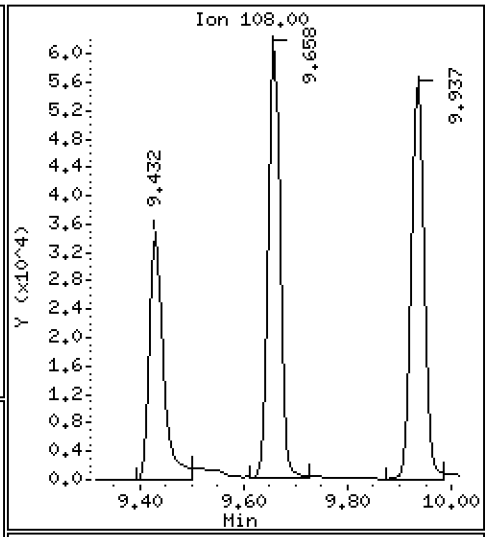
Concentration: 3.291 ug/mL

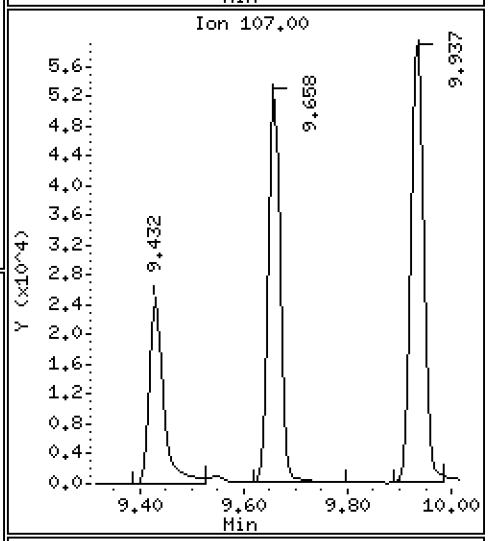


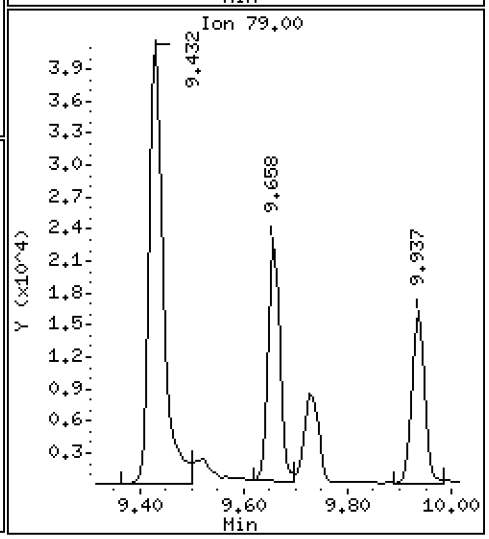












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

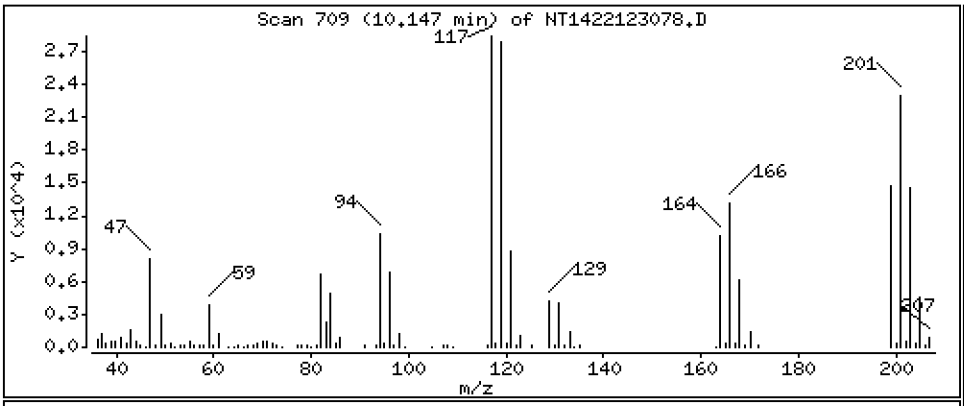
Operator: VTS

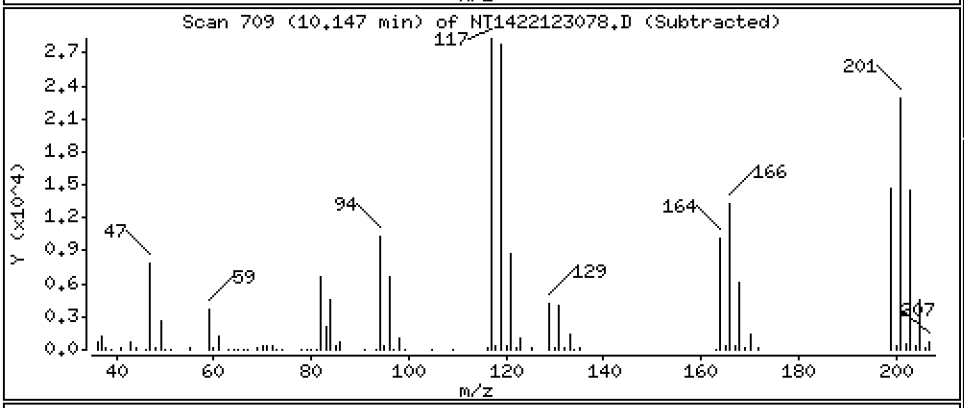
Column phase: ZB-5msi

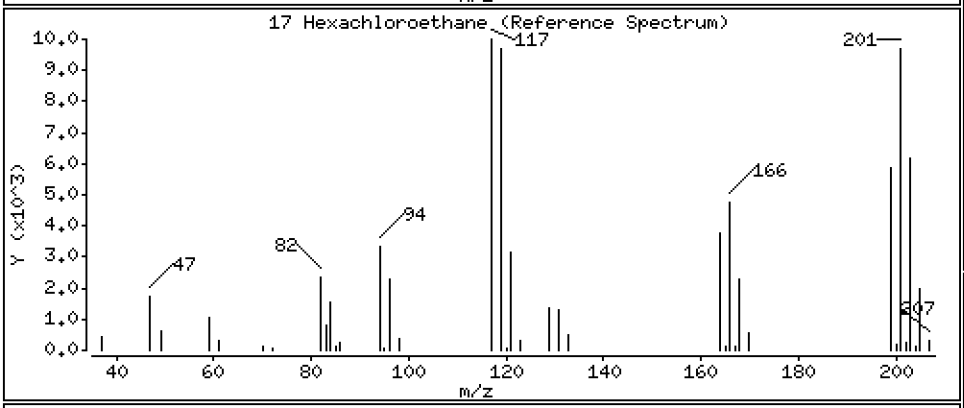
Column diameter: 0.25

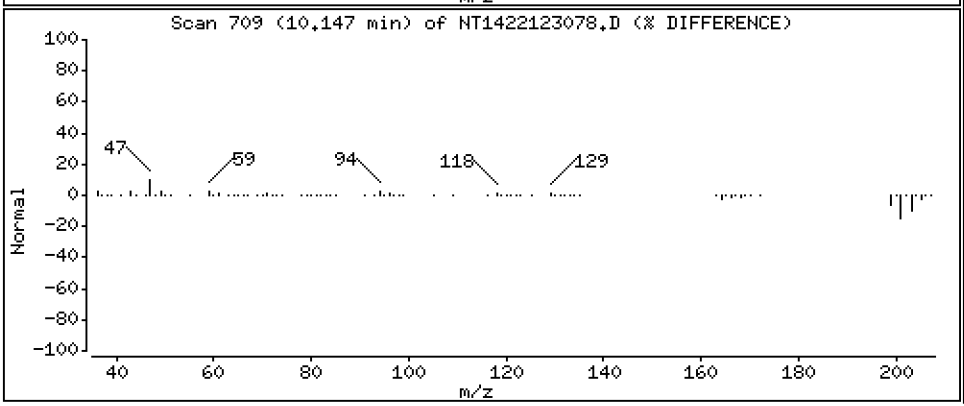
17 Hexachloroethane

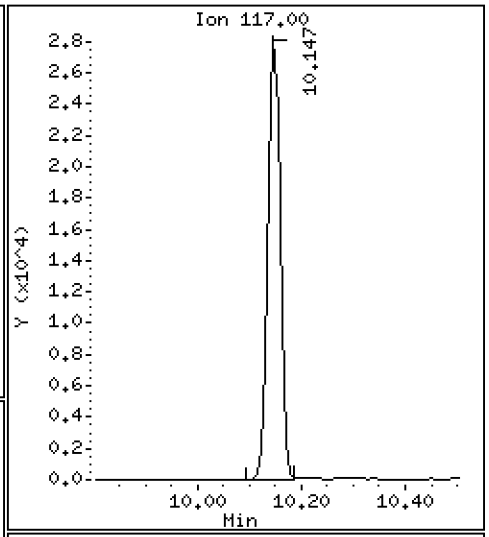
Concentration: 3.867 ug/mL

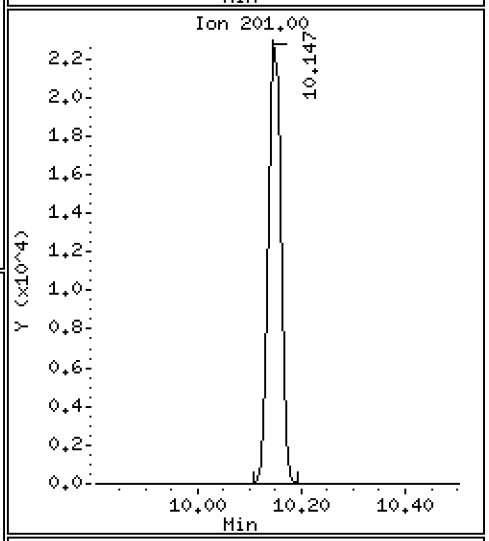


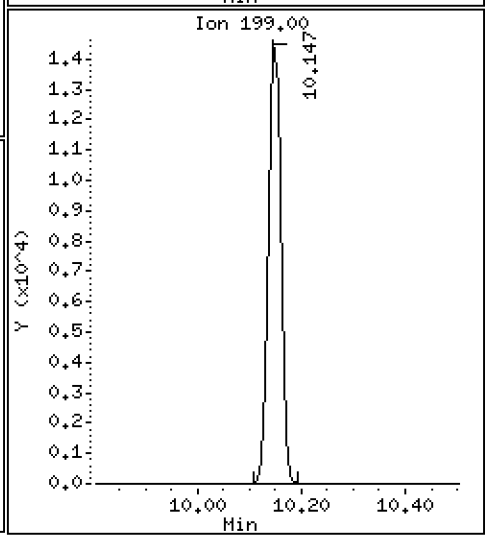












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

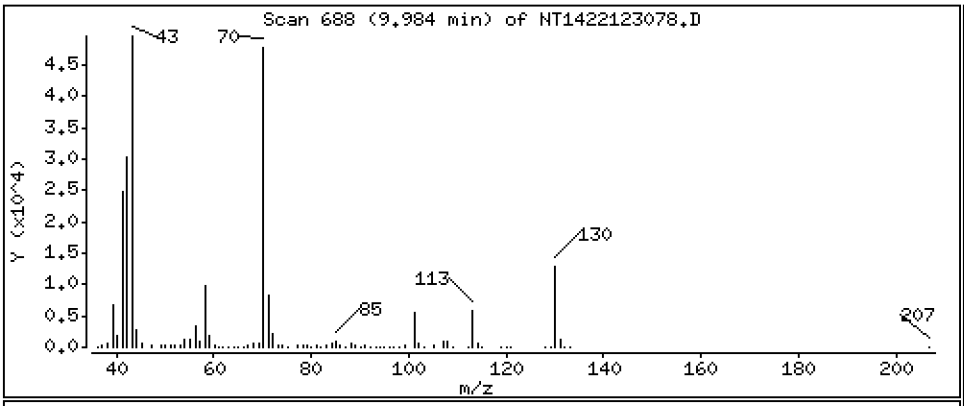
Operator: VTS

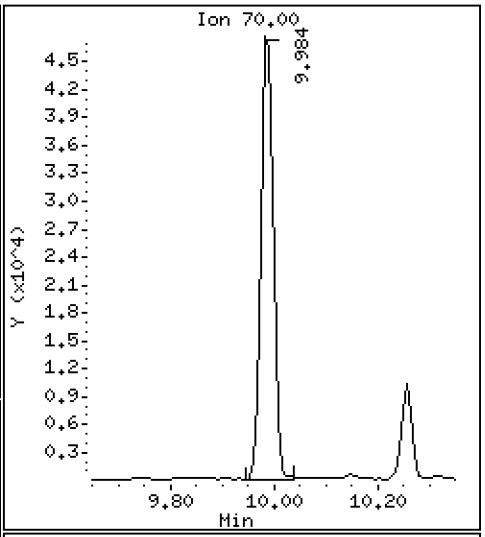
Column phase: ZB-5msi

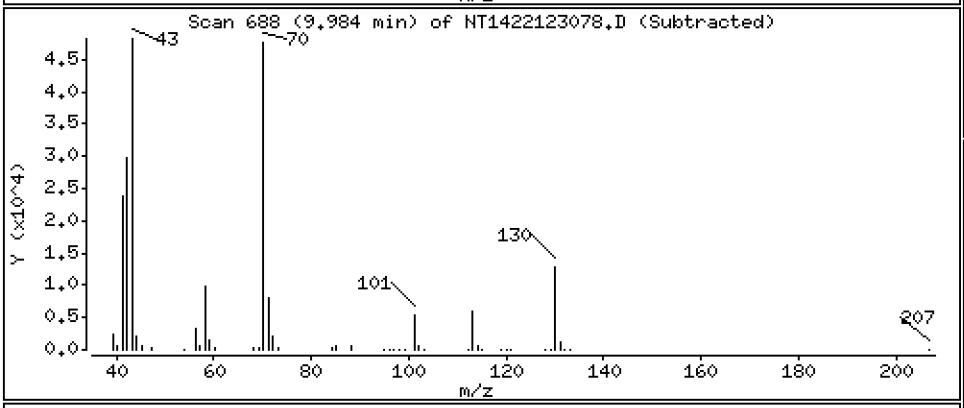
Column diameter: 0.25

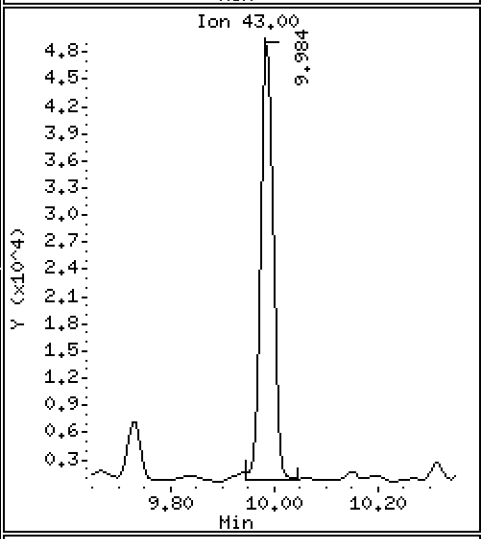
16 N-Nitroso-di-n-propylamine

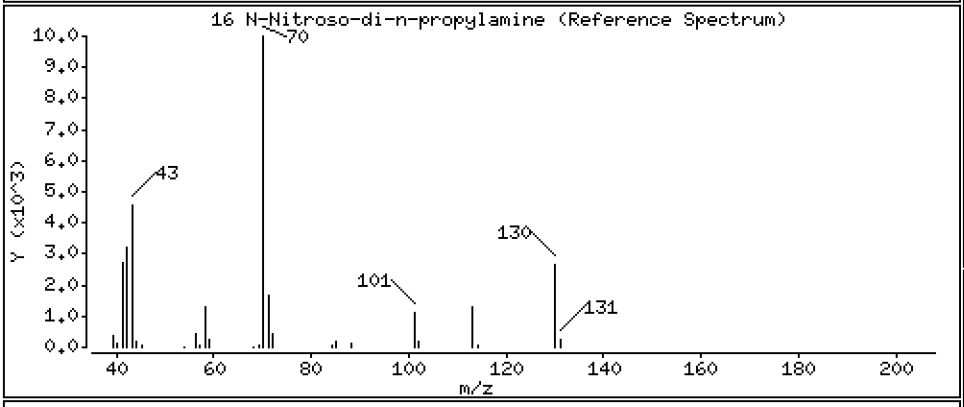
Concentration: 4.472 ug/mL

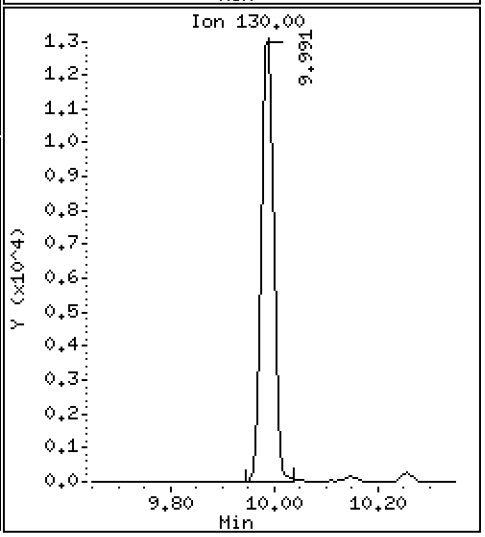


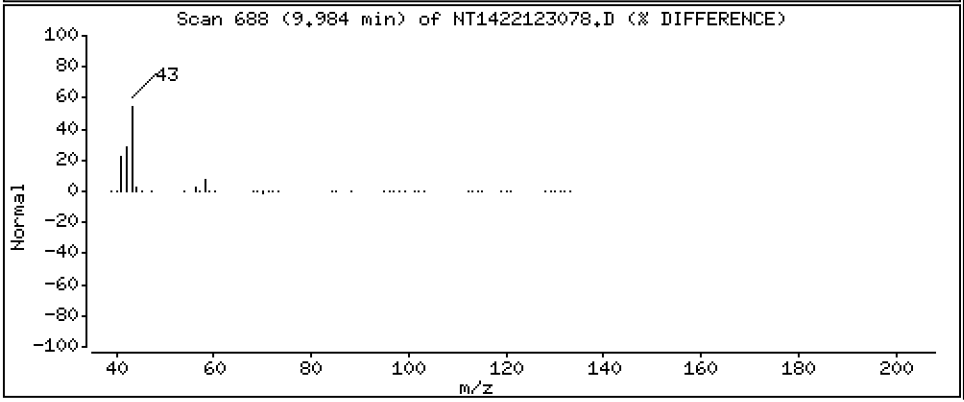












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

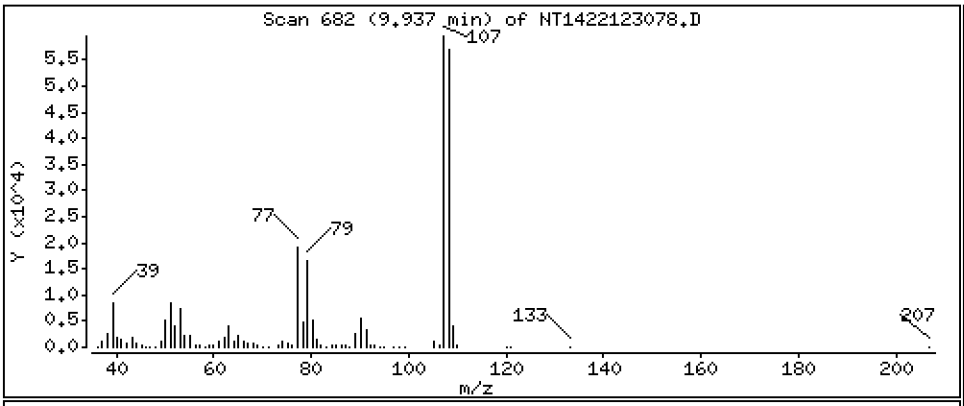
Operator: VTS

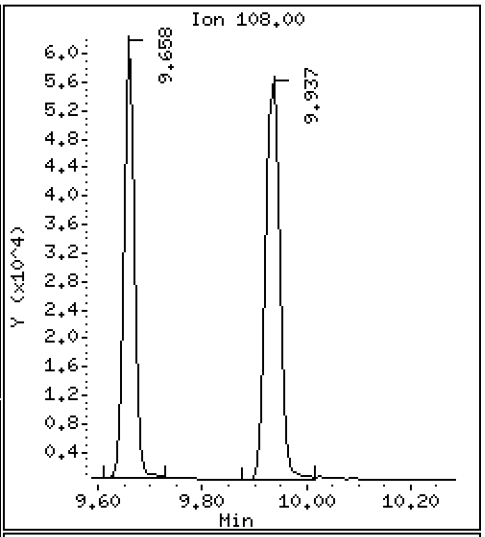
Column phase: ZB-5msi

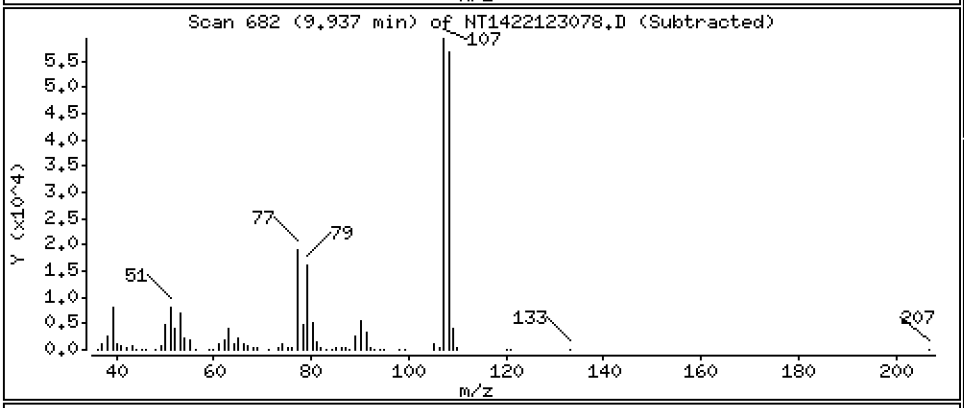
Column diameter: 0.25

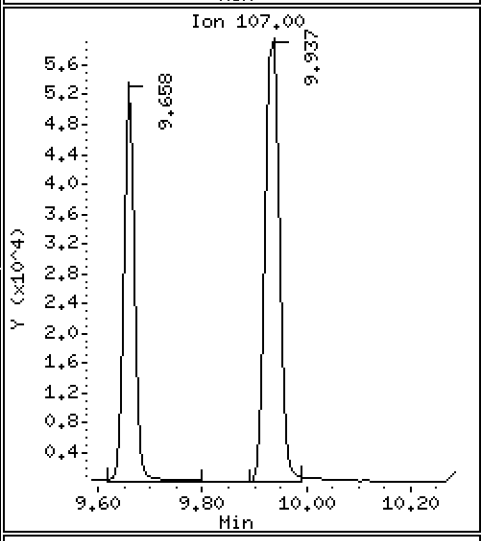
15 4-Methylphenol

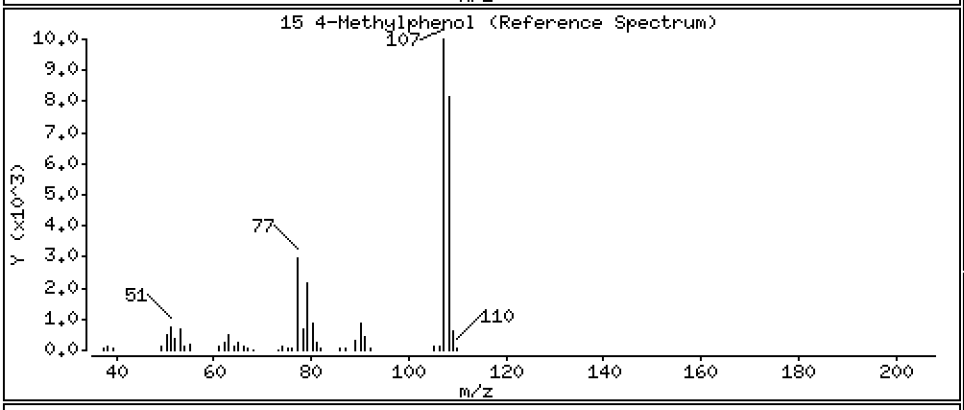
Concentration: 3.543 ug/mL

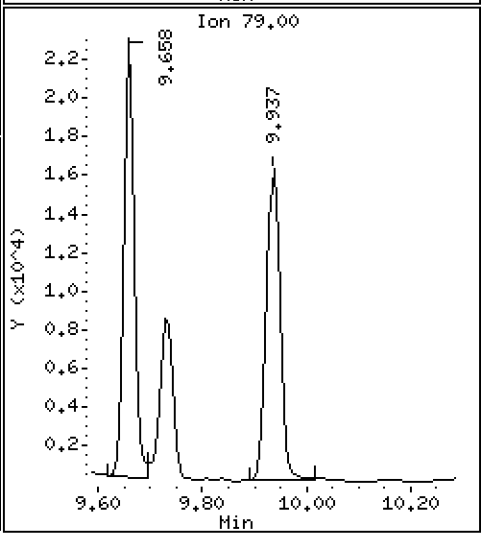


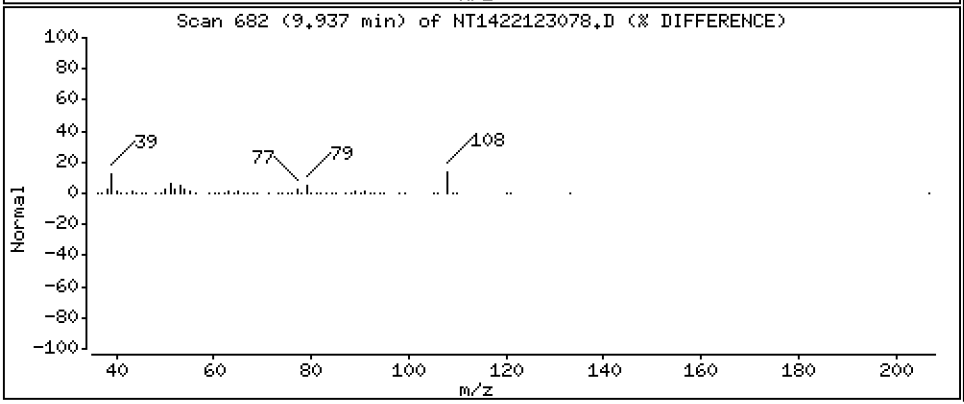












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

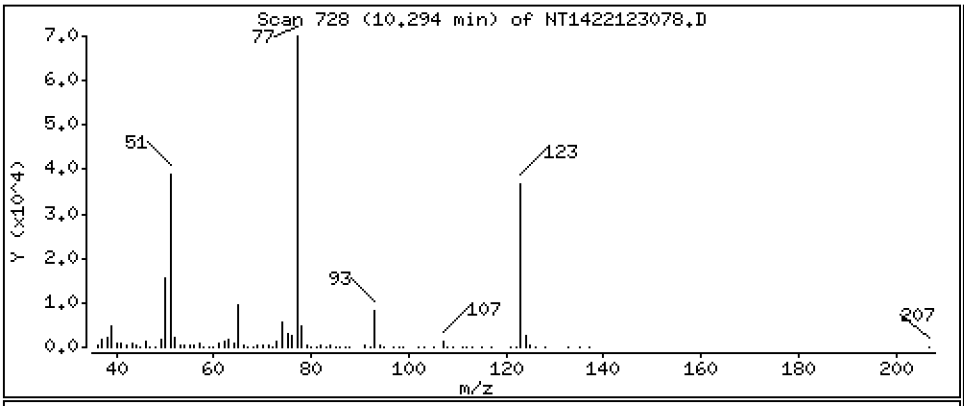
Operator: VTS

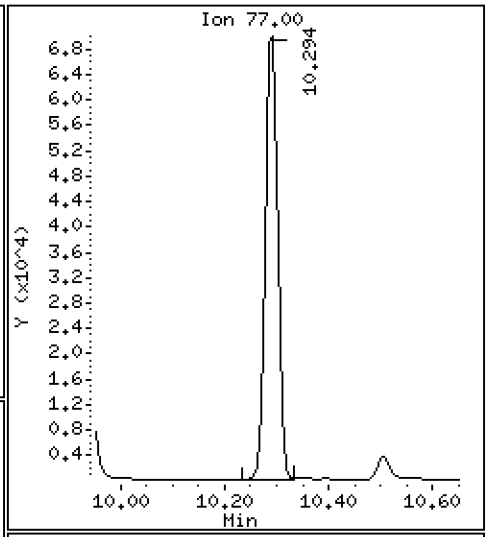
Column phase: ZB-5msi

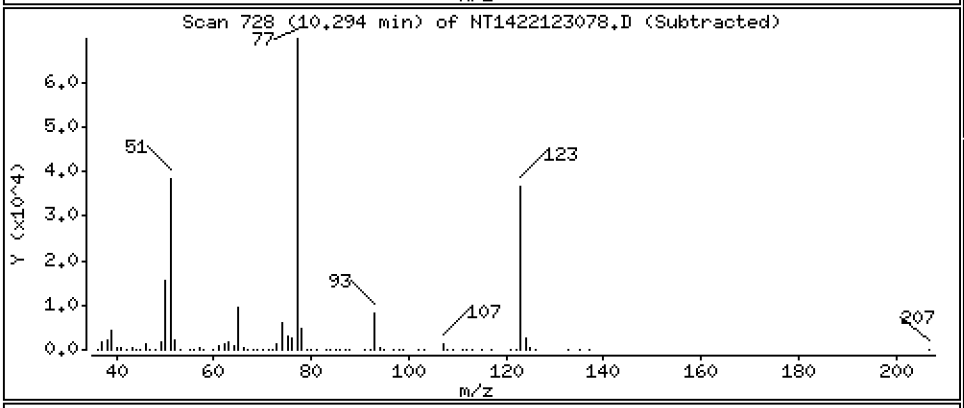
Column diameter: 0.25

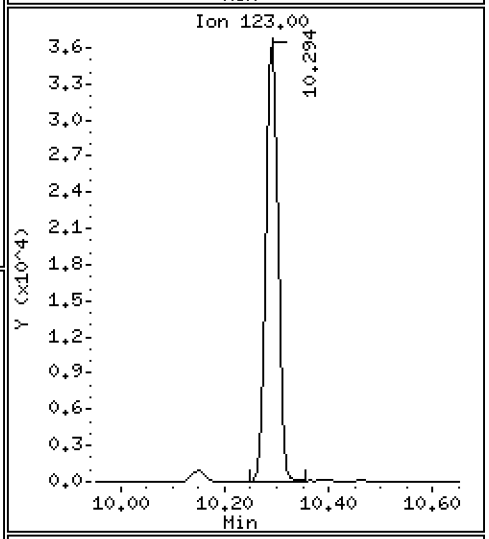
19 Nitrobenzene

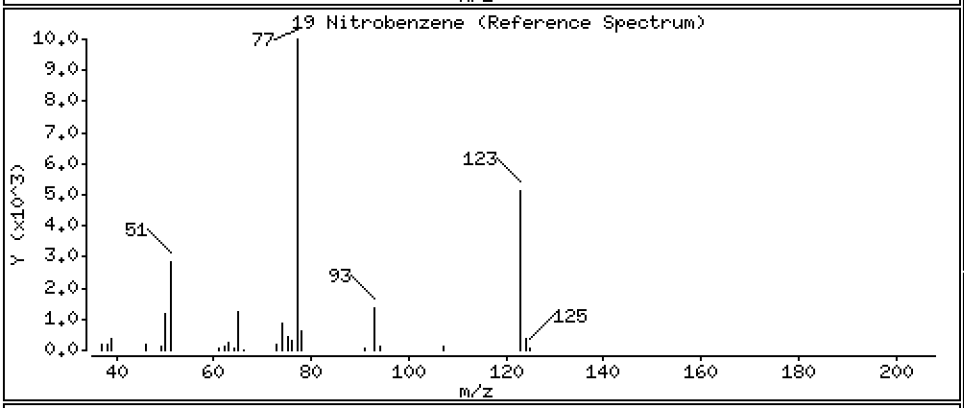
Concentration: 4.329 ug/mL

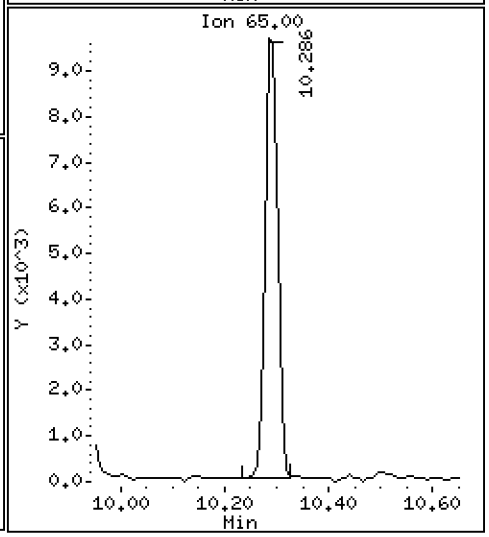


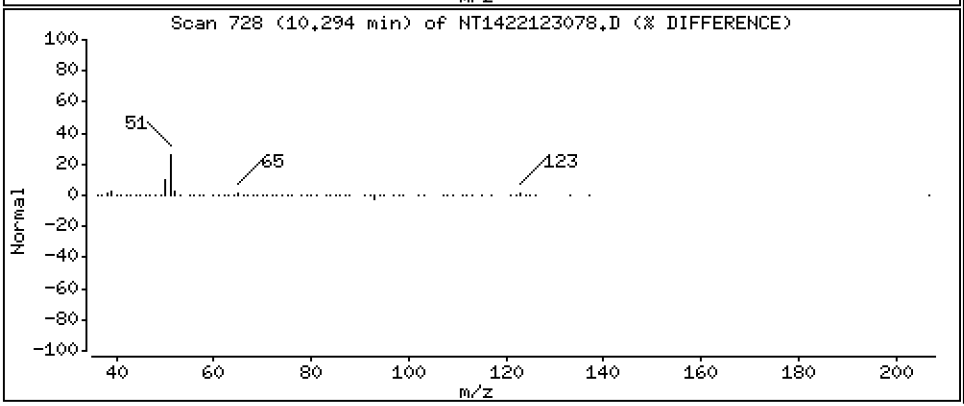












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

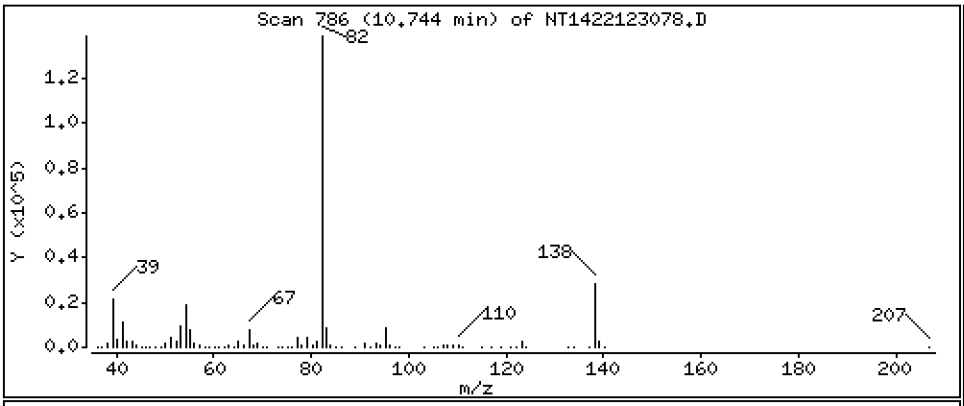
Operator: VTS

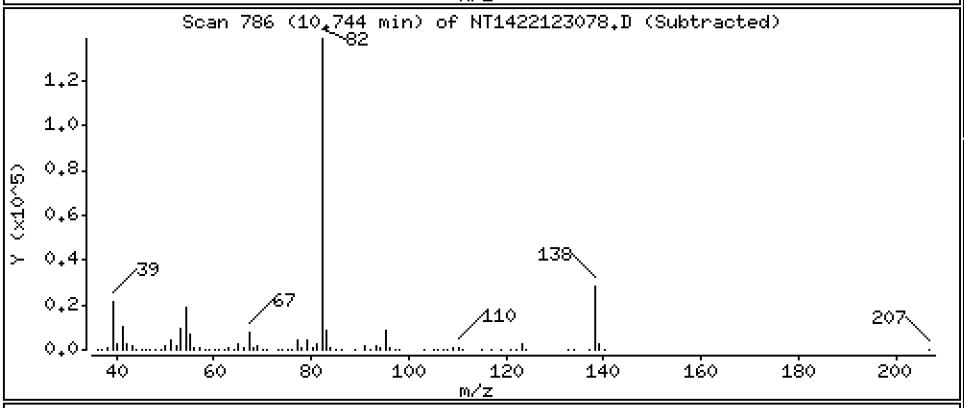
Column phase: ZB-5msi

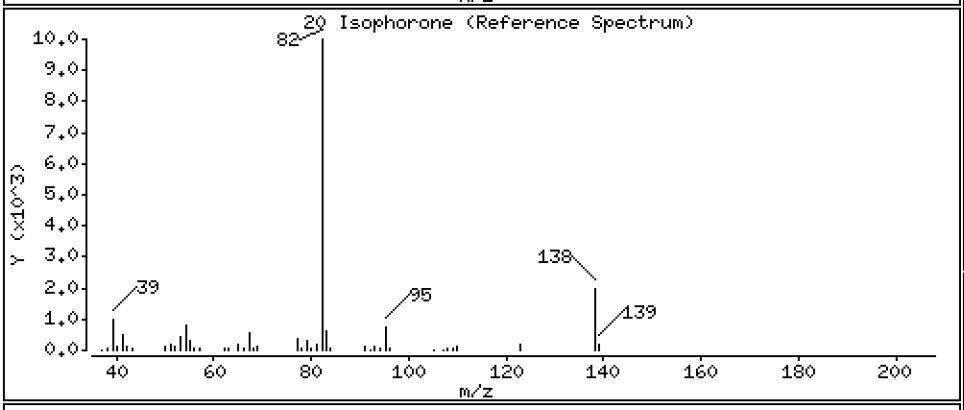
Column diameter: 0.25

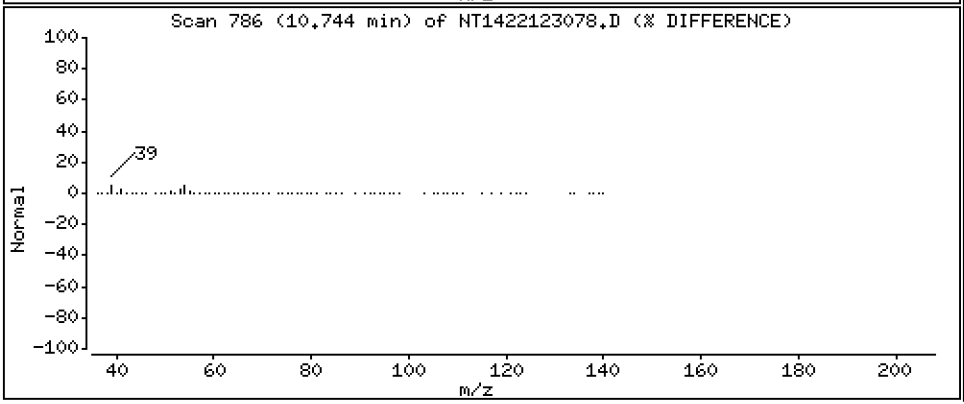
20 Isophorone

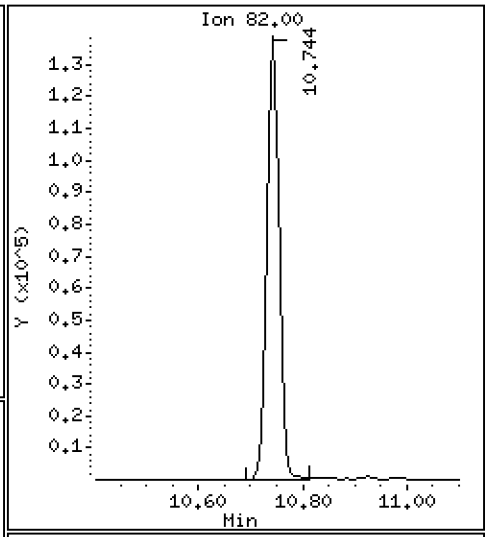
Concentration: 6.574 ug/mL

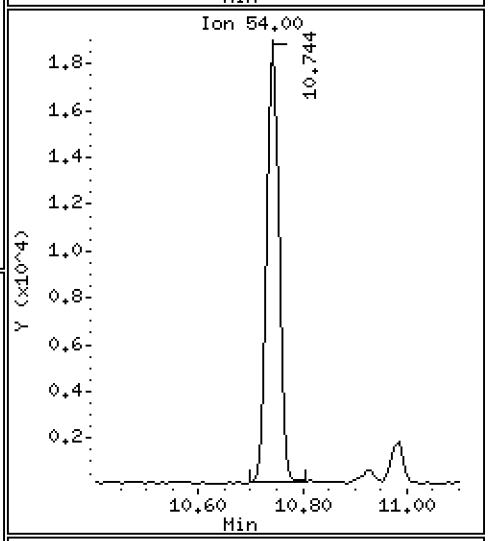


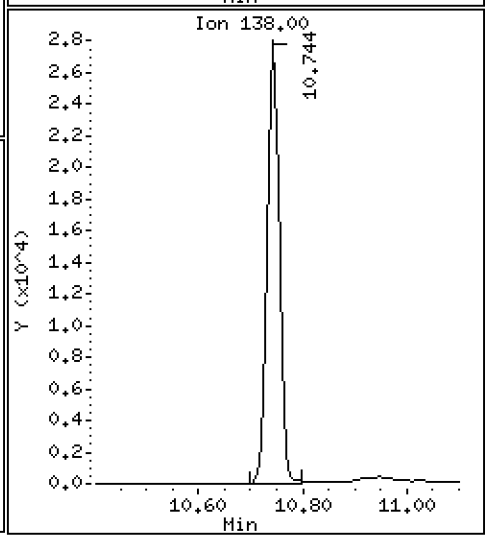












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

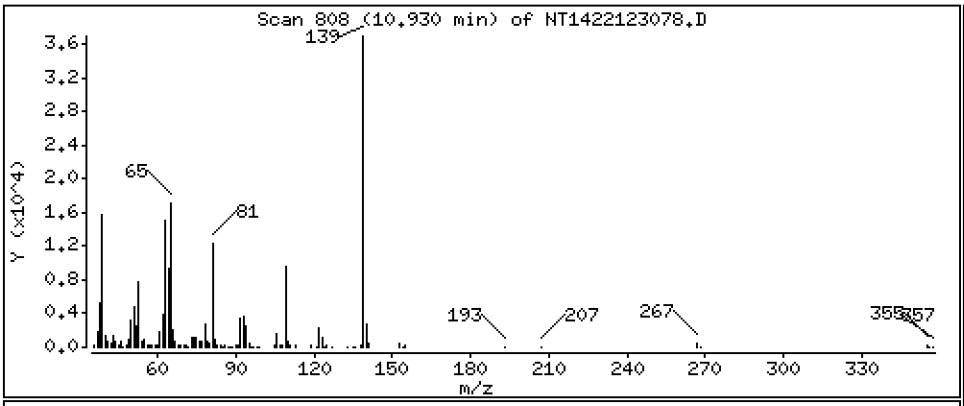
Operator: VTS

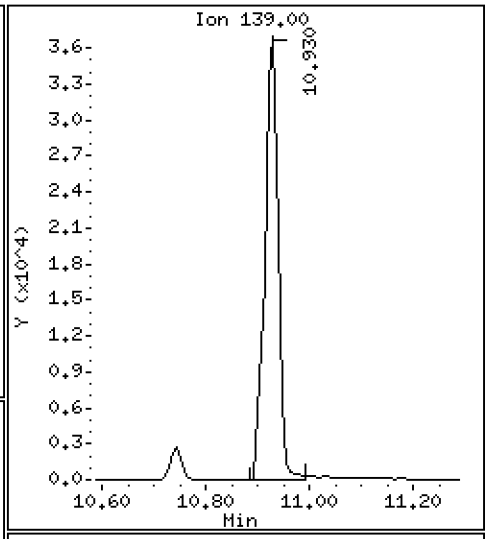
Column phase: ZB-5msi

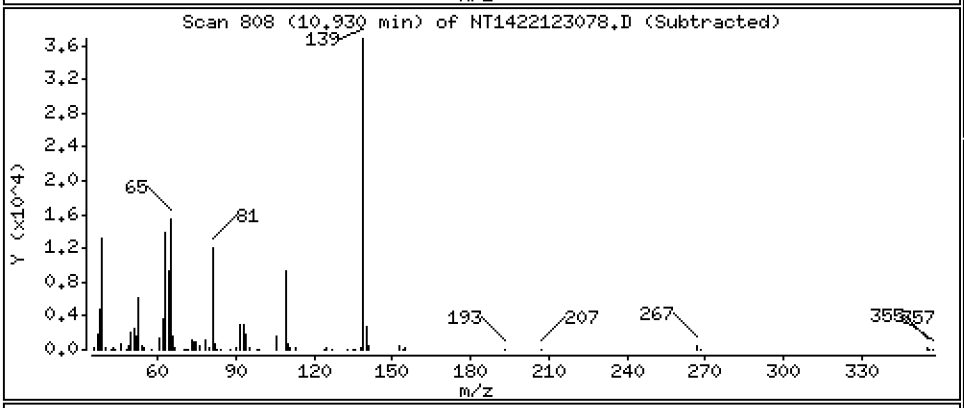
Column diameter: 0.25

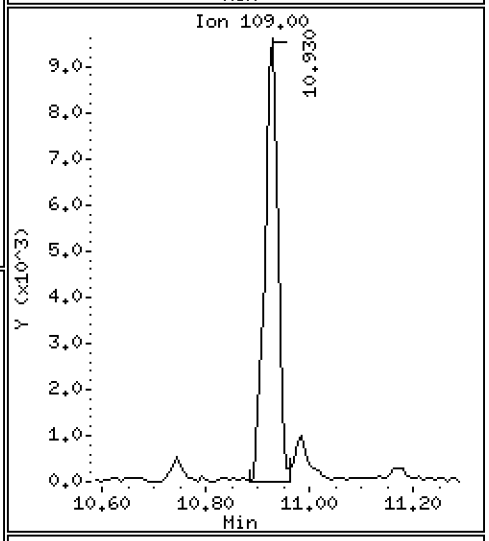
21 2-Nitrophenol

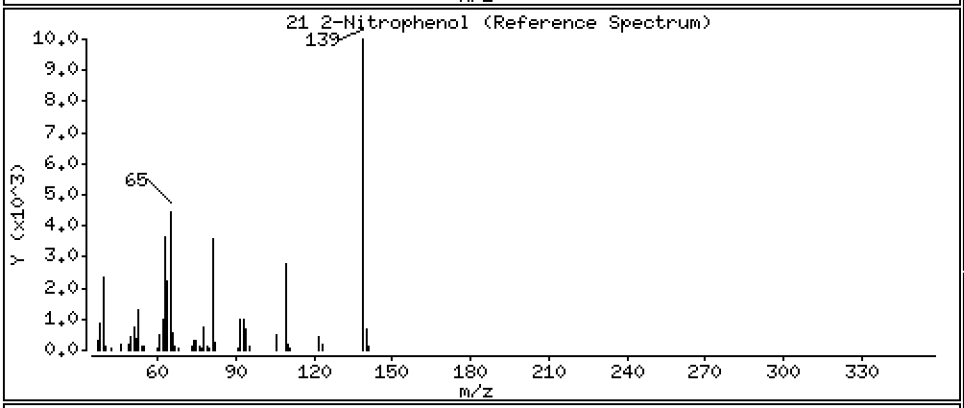
Concentration: 3.933 ug/mL

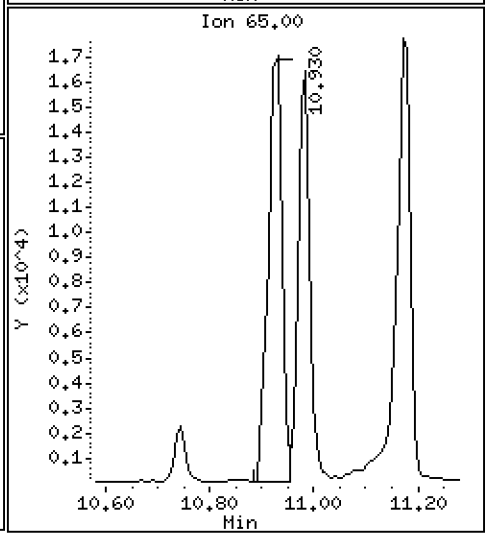


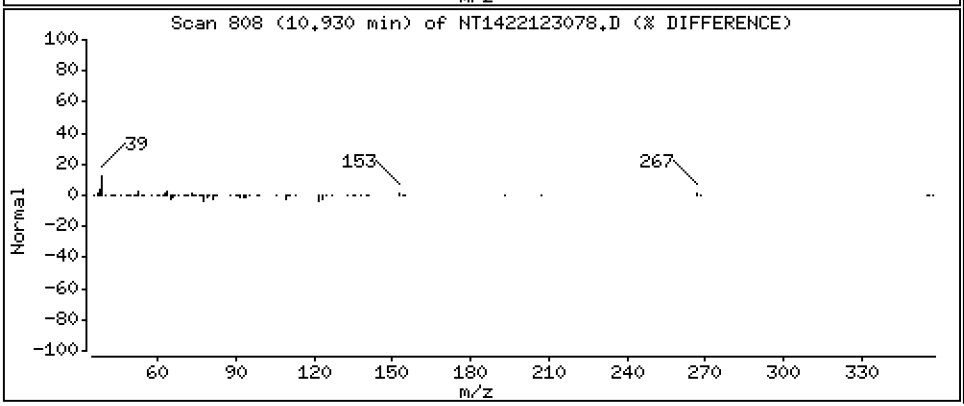












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

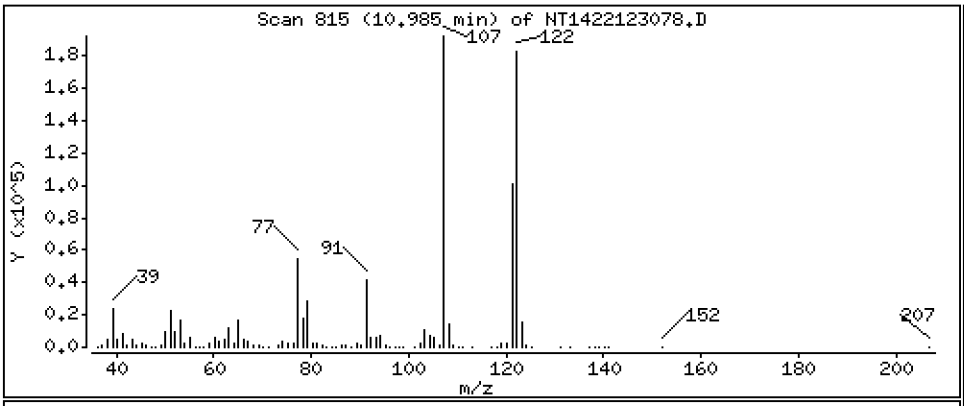
Operator: VTS

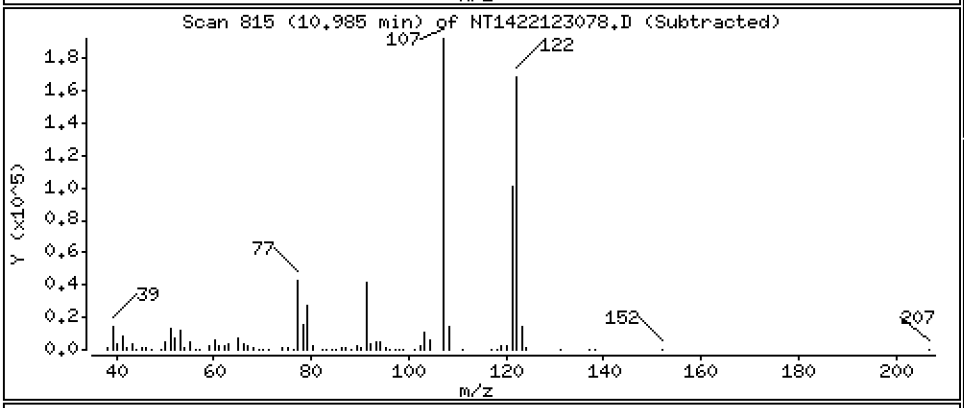
Column phase: ZB-5msi

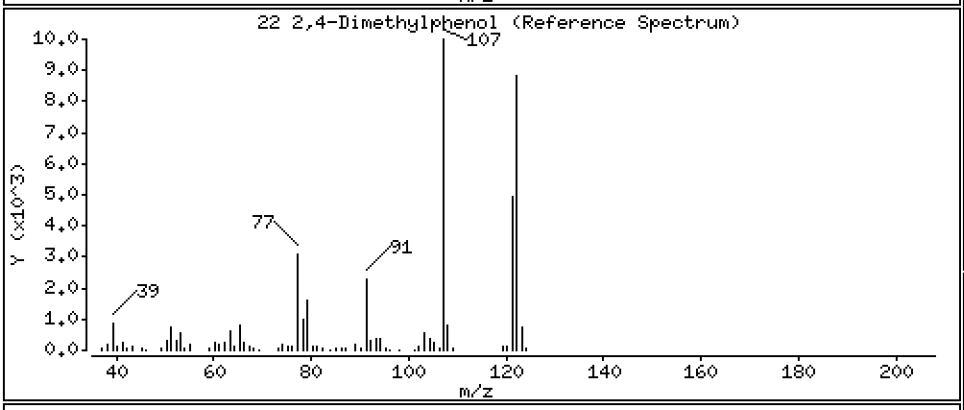
Column diameter: 0.25

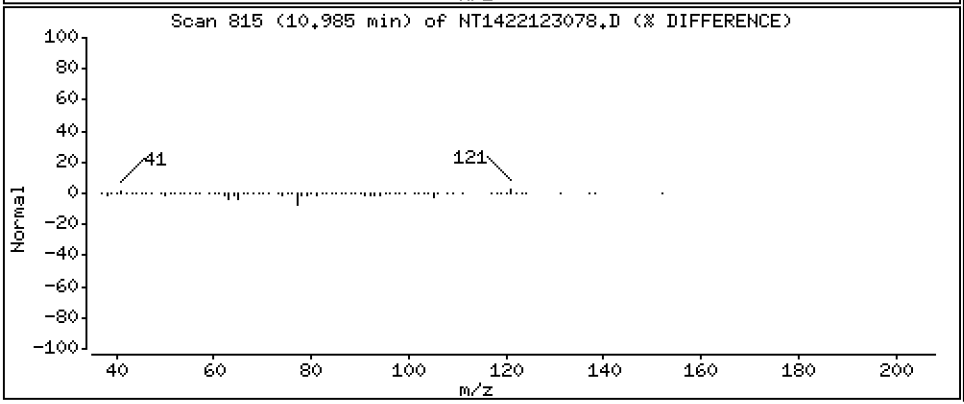
22 2,4-Dimethylphenol

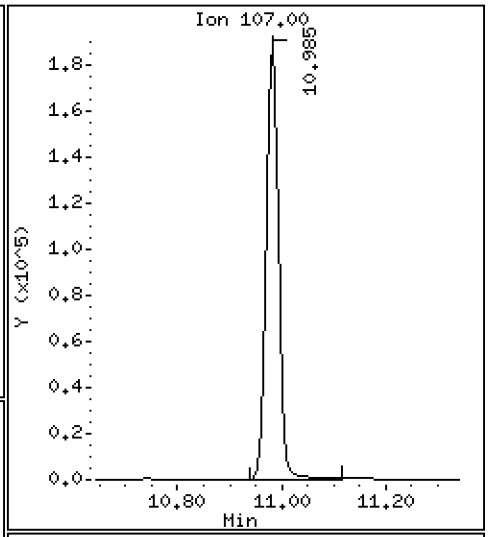
Concentration: 11.02 ug/mL

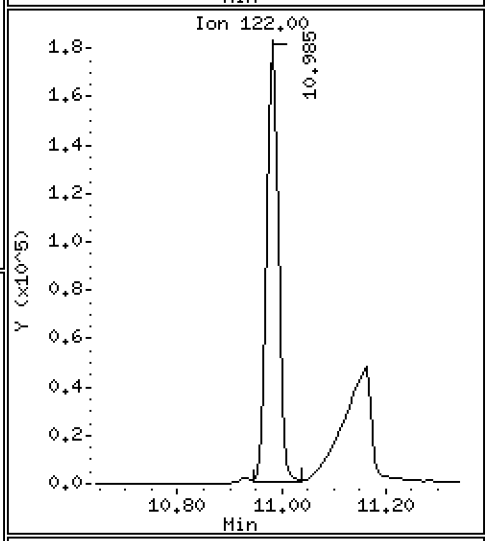


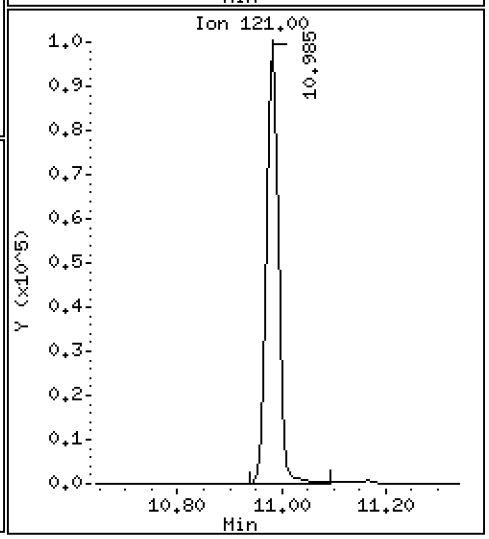












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123078.D

Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

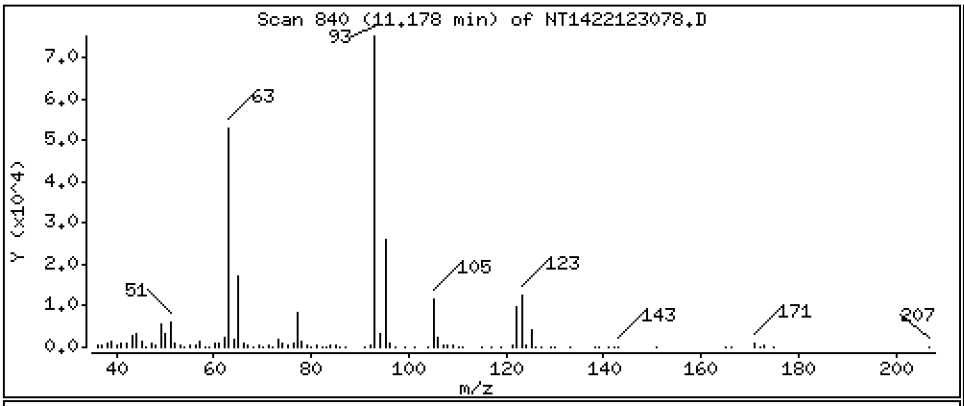
Operator: VTS

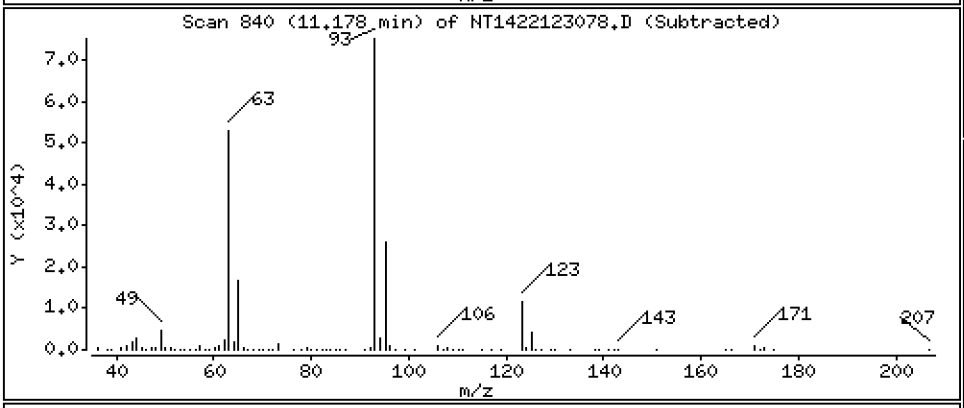
Column phase: ZB-5msi

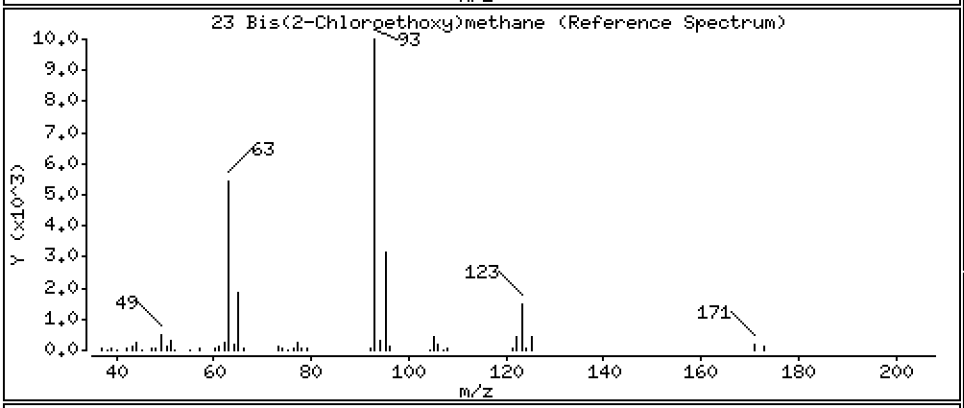
Column diameter: 0.25

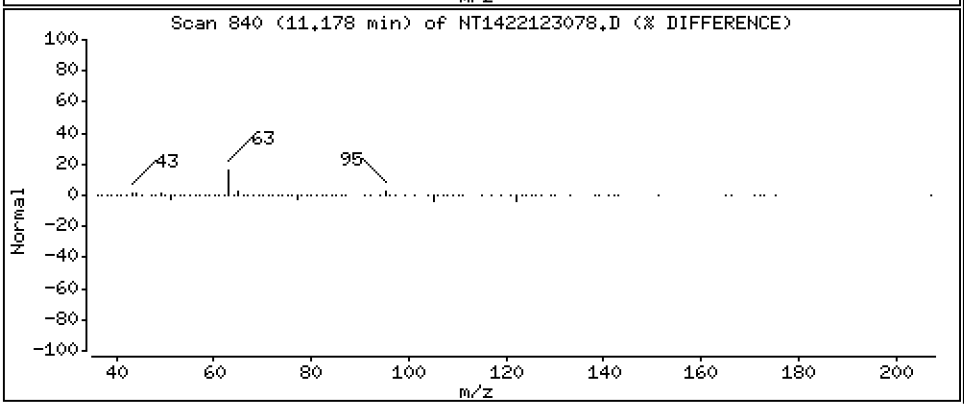
23 Bis(2-Chloroethoxy)methane

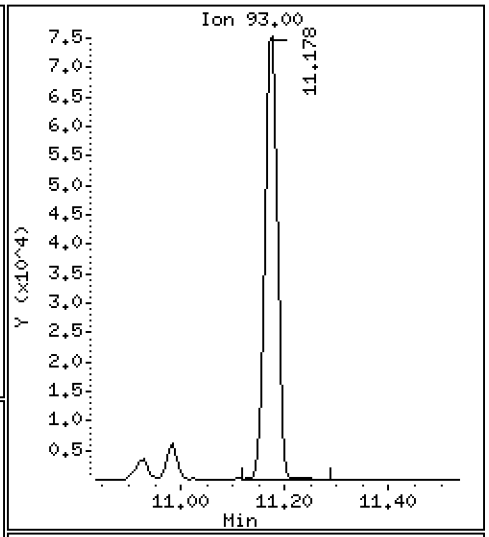
Concentration: 4.759 ug/mL

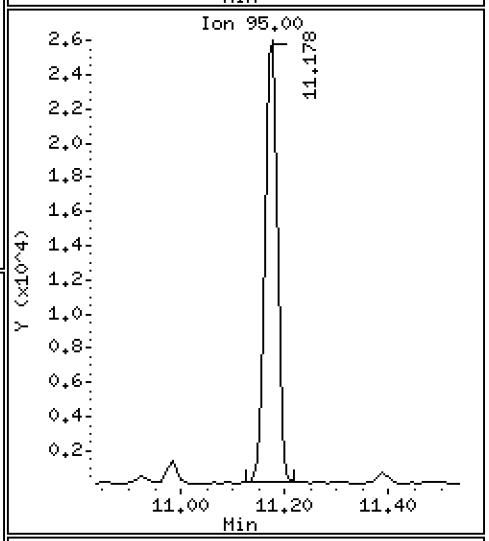


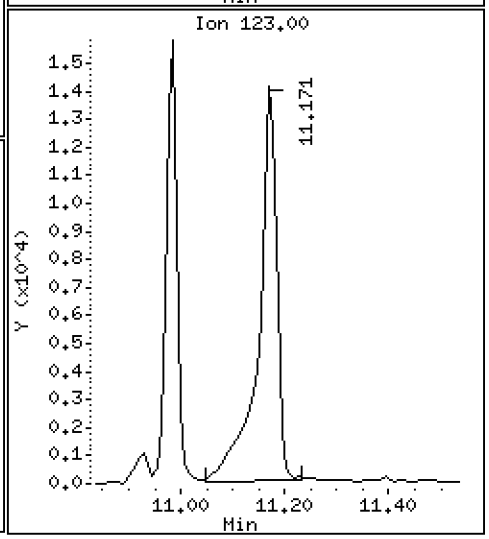












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

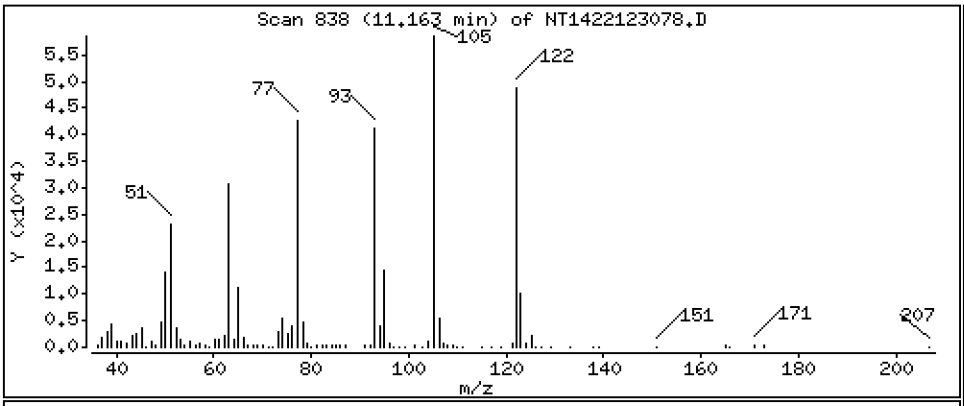
Operator: VTS

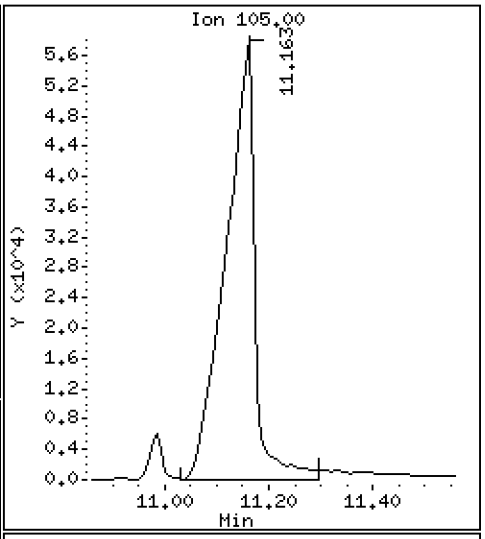
Column phase: ZB-5msi

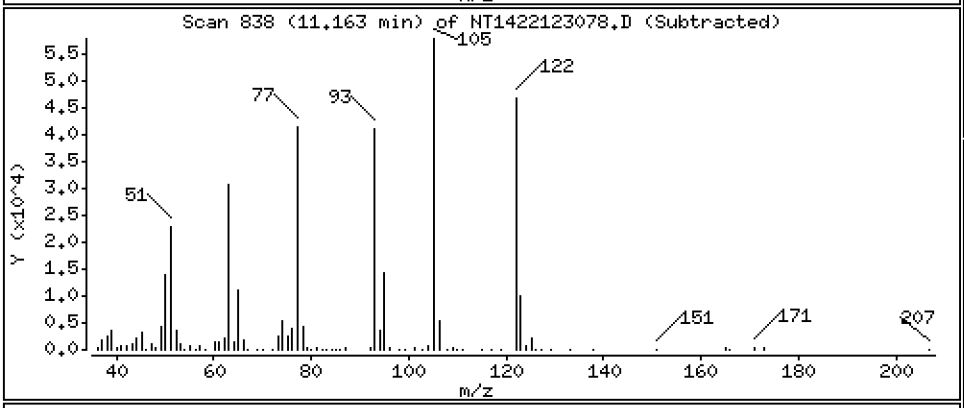
Column diameter: 0.25

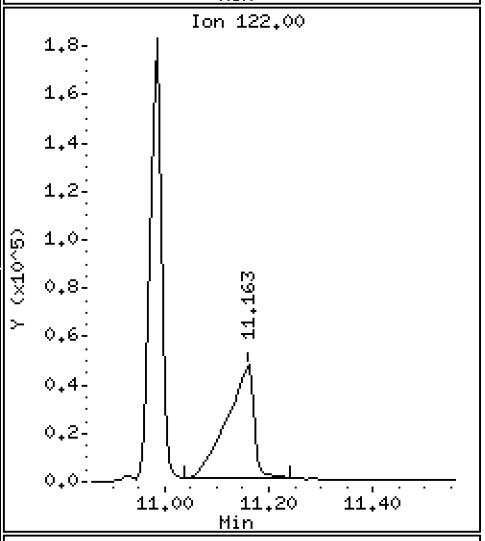
24 Benzoic acid

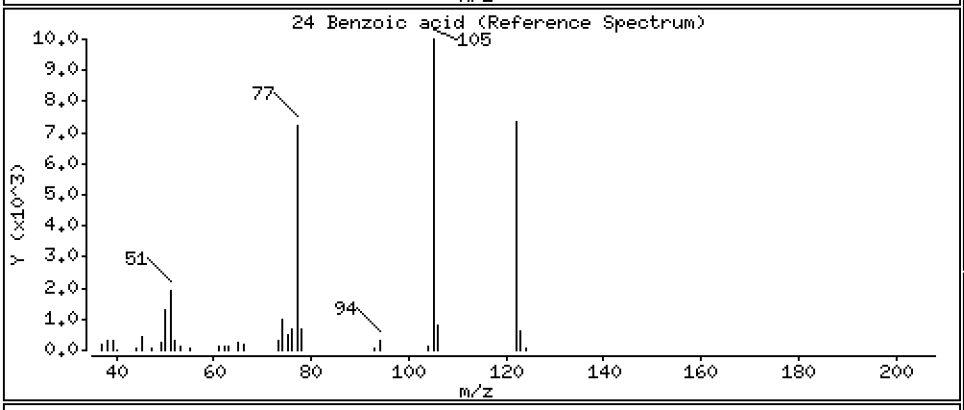
Concentration: 13.49 ug/mL

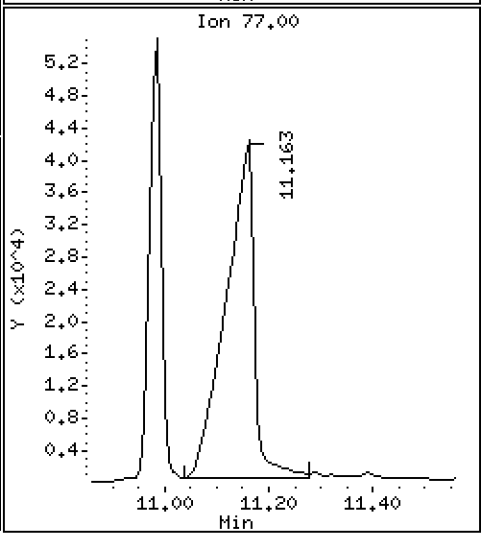


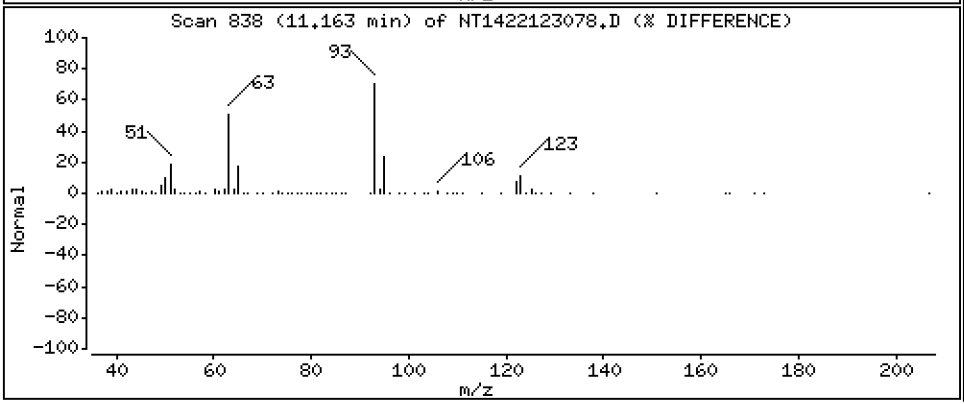












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

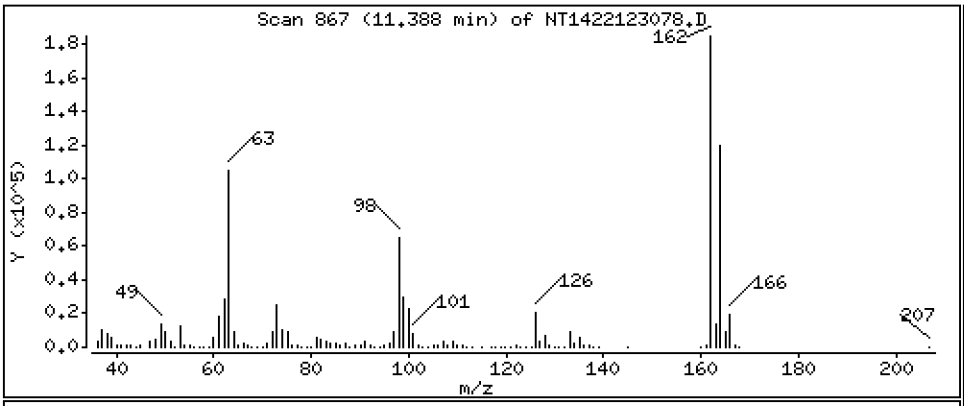
Operator: VTS

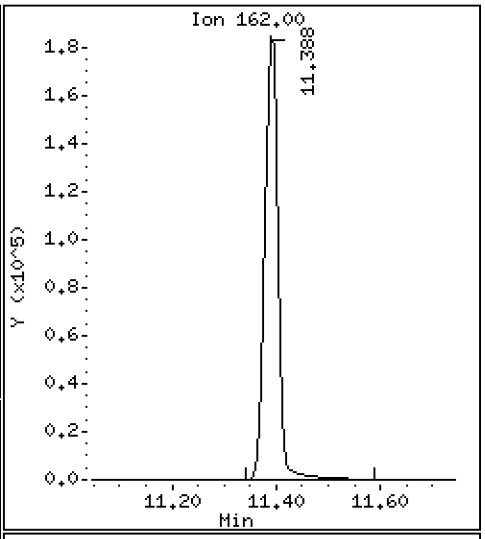
Column phase: ZB-5msi

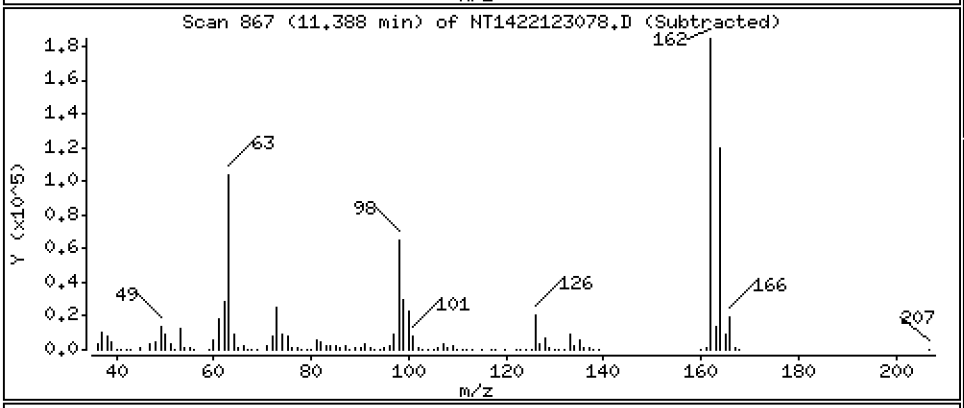
Column diameter: 0.25

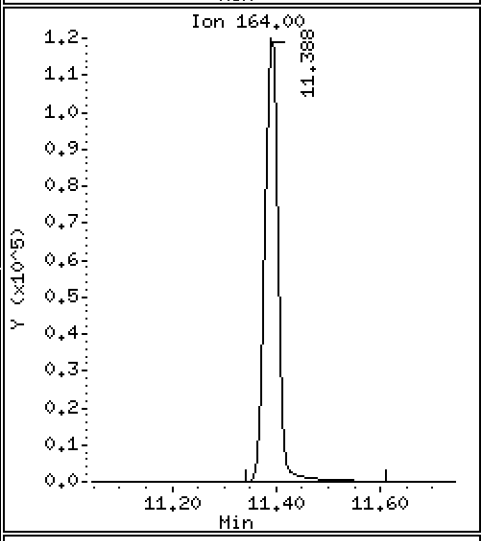
25 2,4-Dichlorophenol

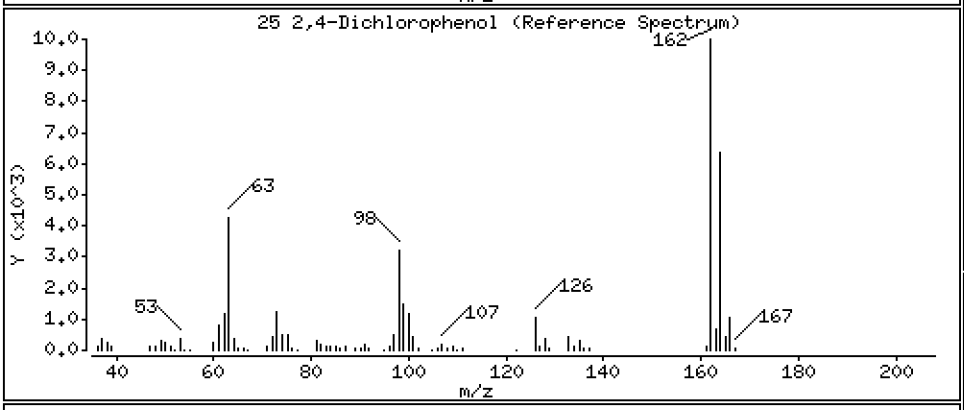
Concentration: 14.90 ug/mL

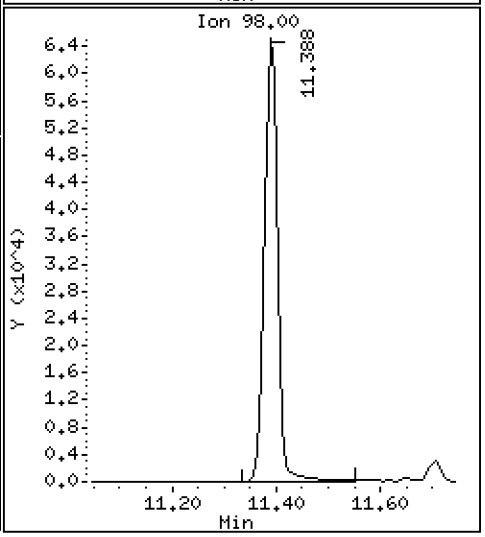


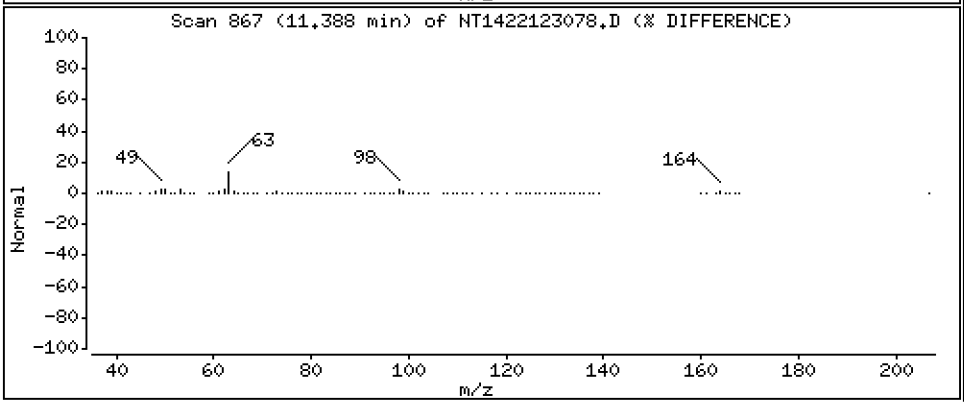












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

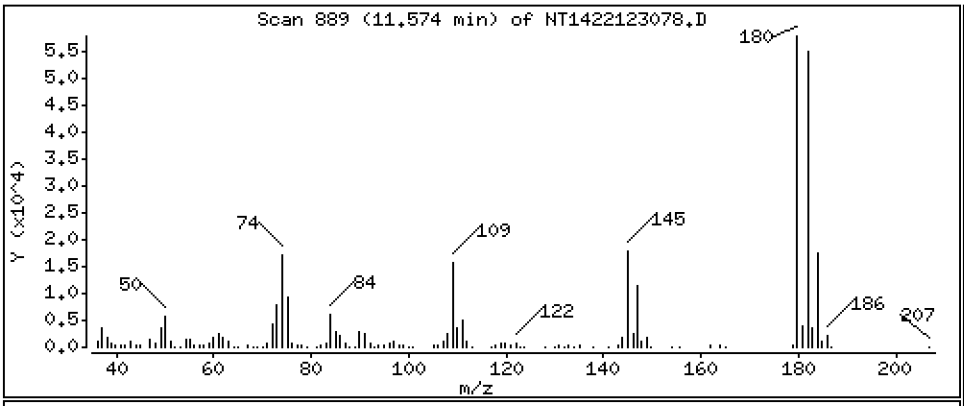
Operator: VTS

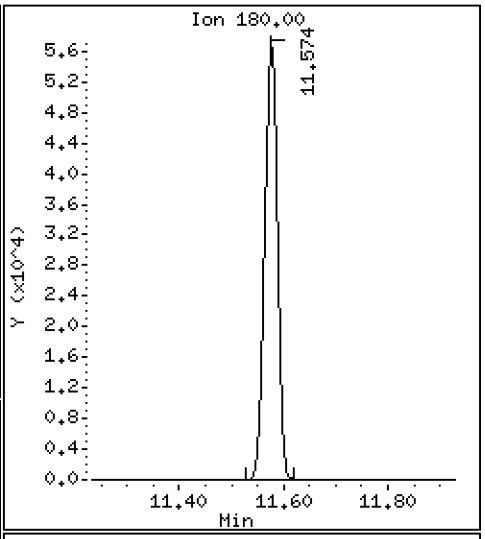
Column phase: ZB-5msi

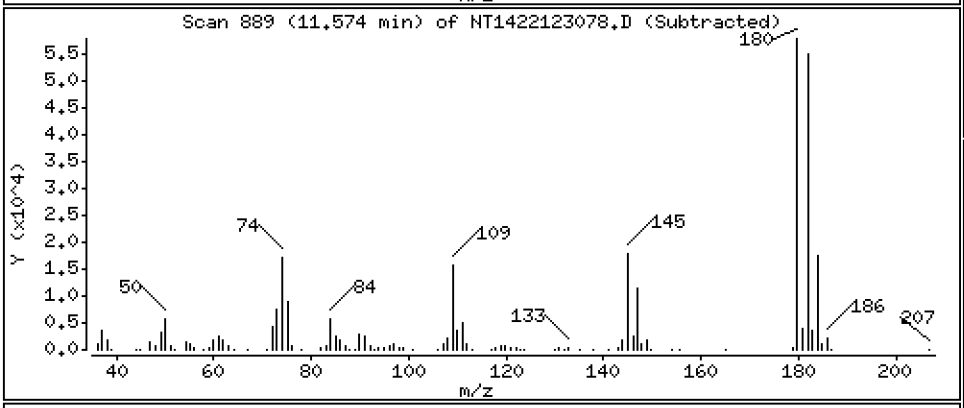
Column diameter: 0.25

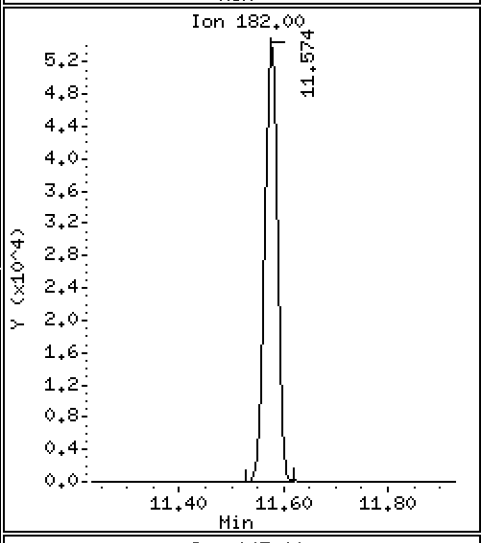
26 1,2,4-Trichlorobenzene

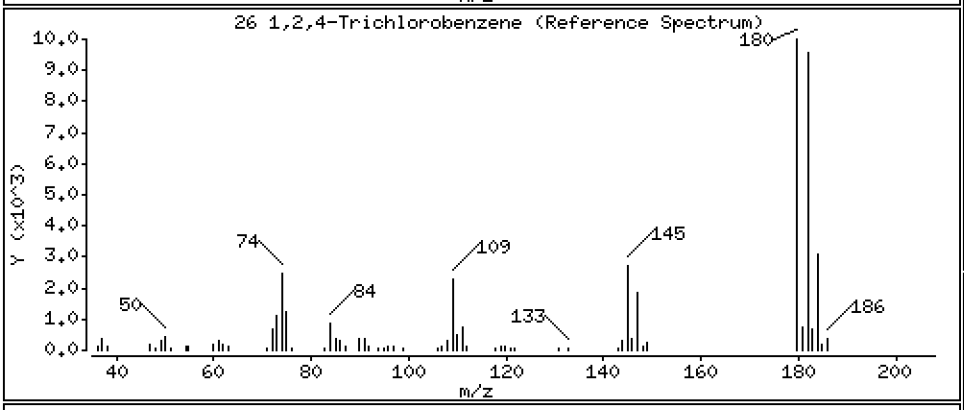
Concentration: 3.780 ug/mL

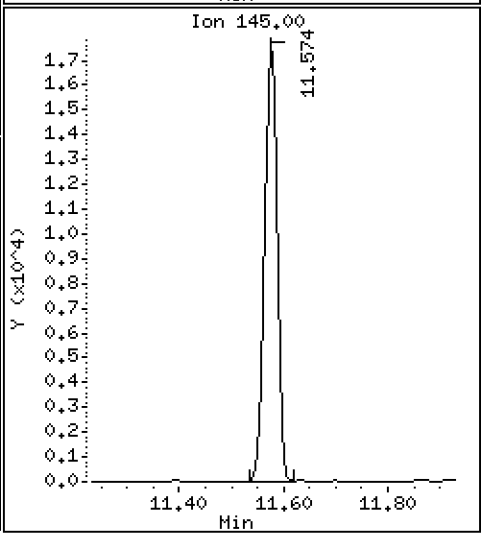


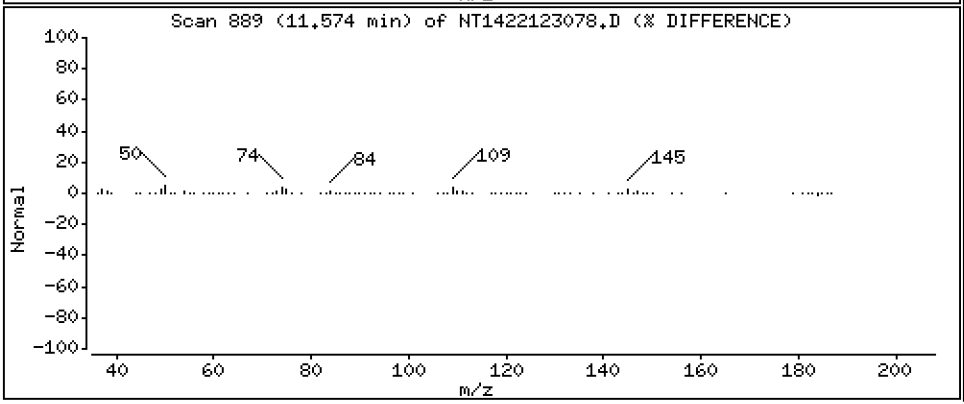












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

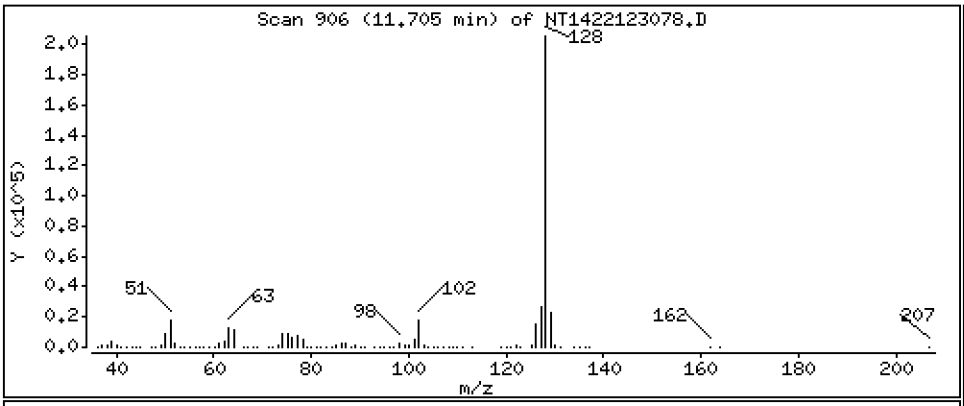
Operator: VTS

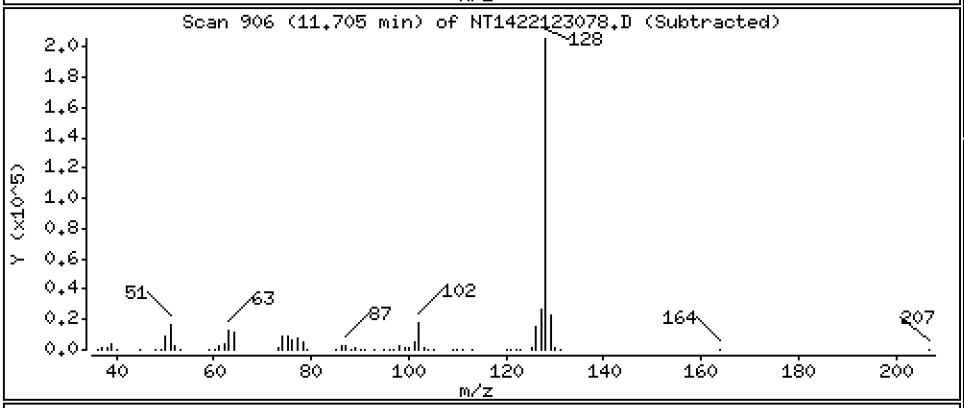
Column phase: ZB-5msi

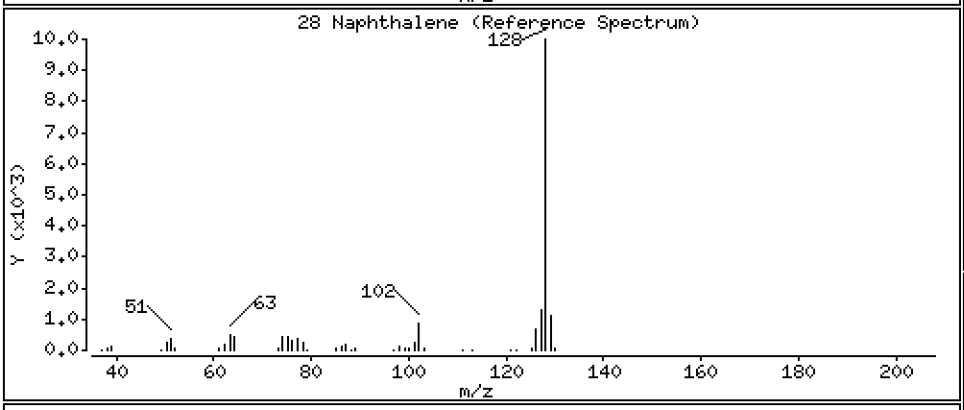
Column diameter: 0.25

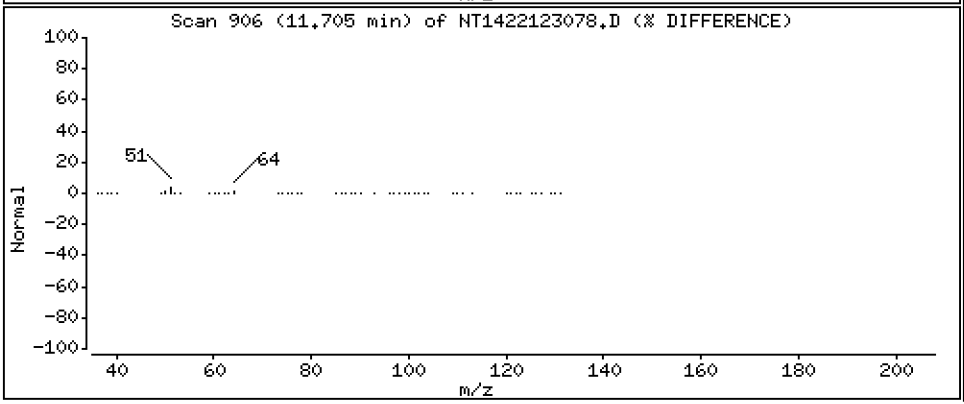
28 Naphthalene

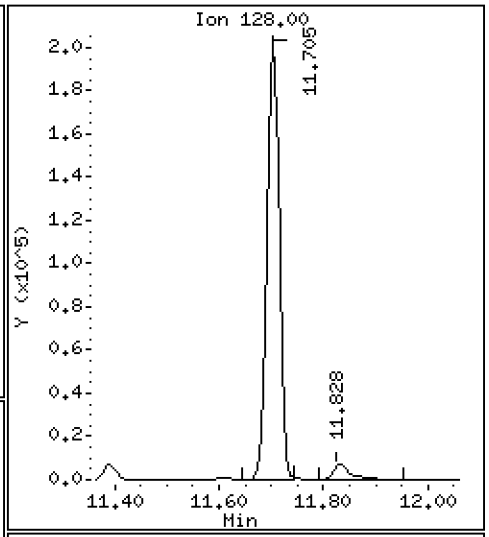
Concentration: 4.158 ug/mL

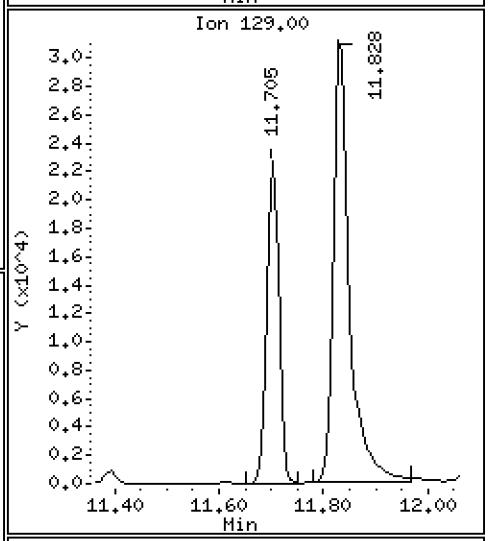


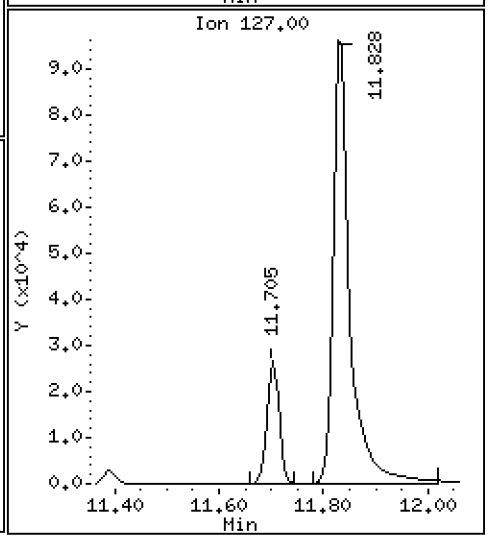












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

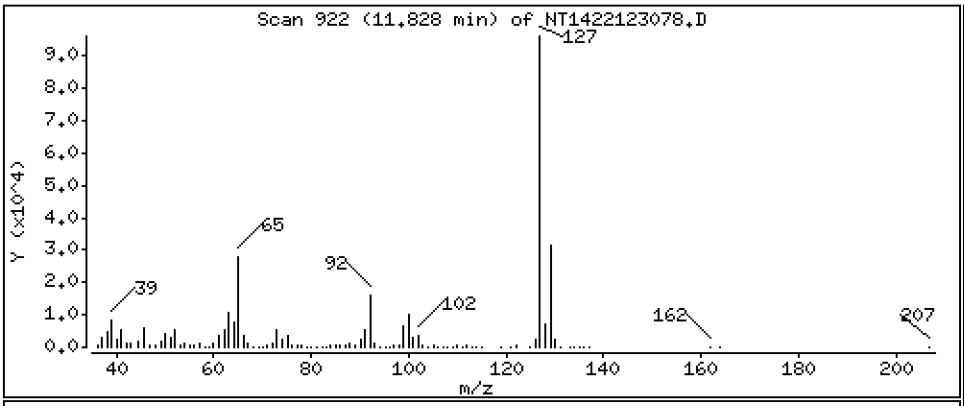
Operator: VTS

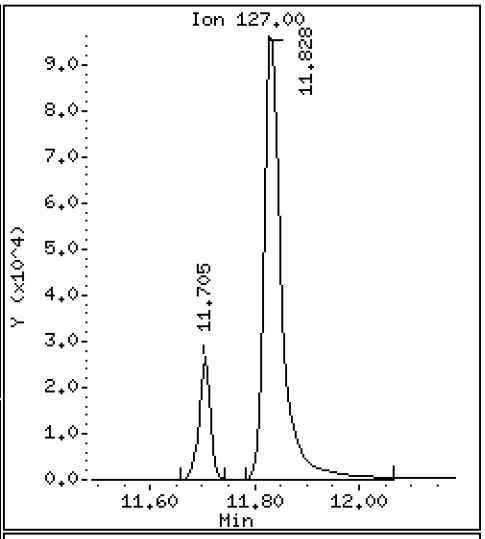
Column phase: ZB-5msi

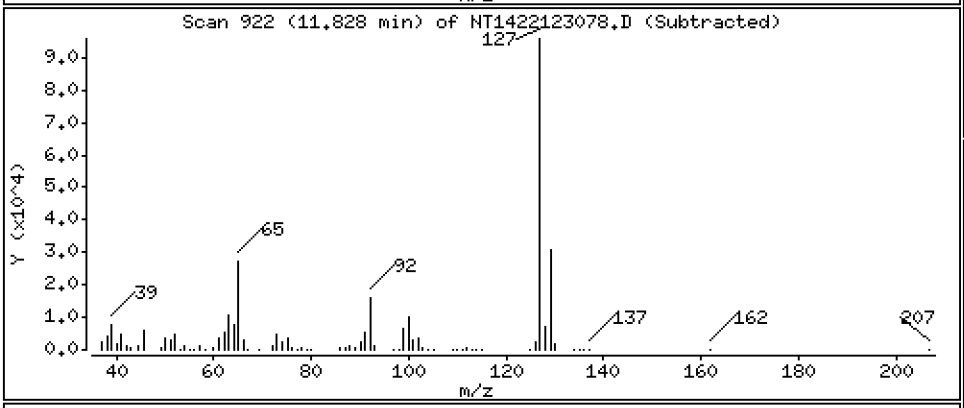
Column diameter: 0.25

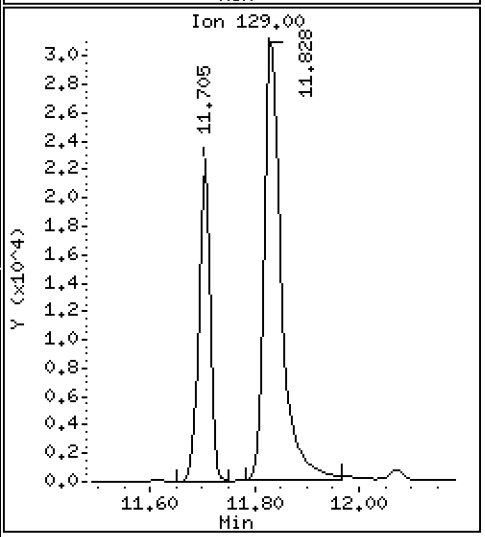
29 4-Chloroaniline

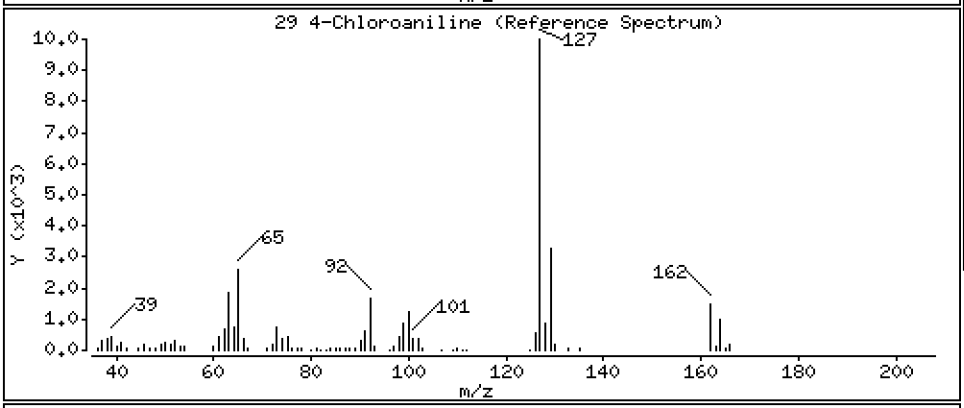
Concentration: 7.457 ug/mL

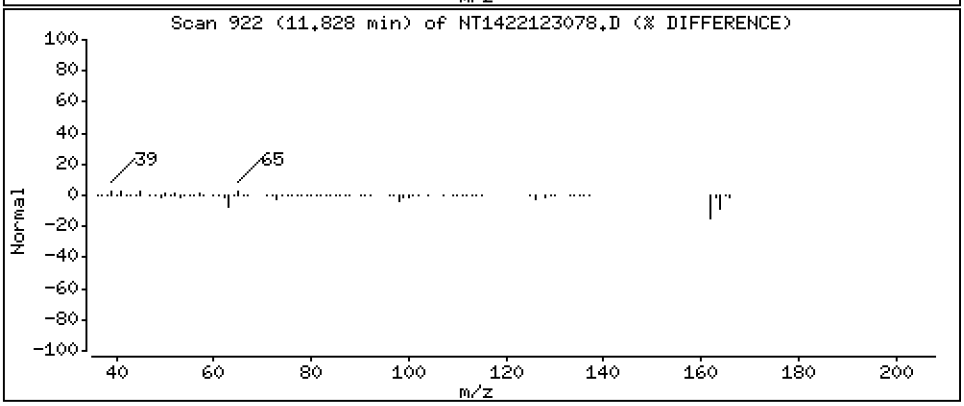












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

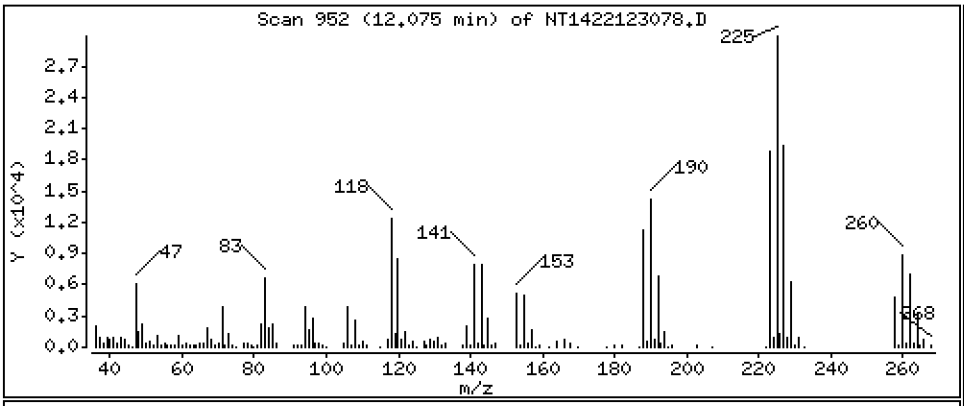
Operator: VTS

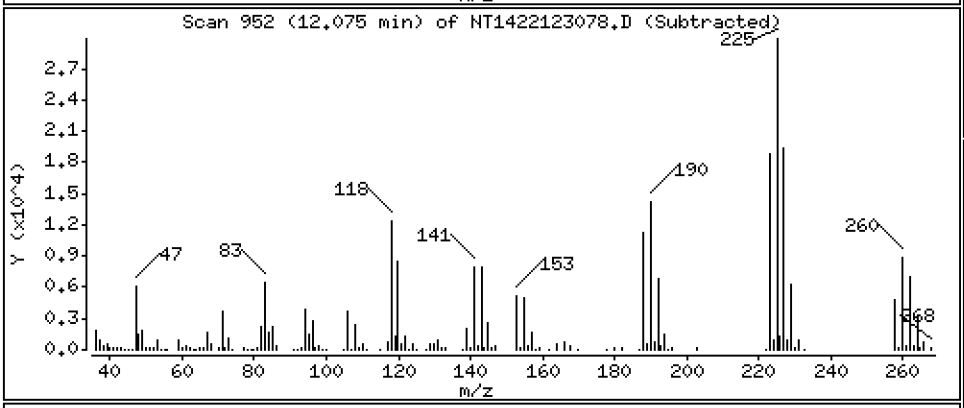
Column phase: ZB-5msi

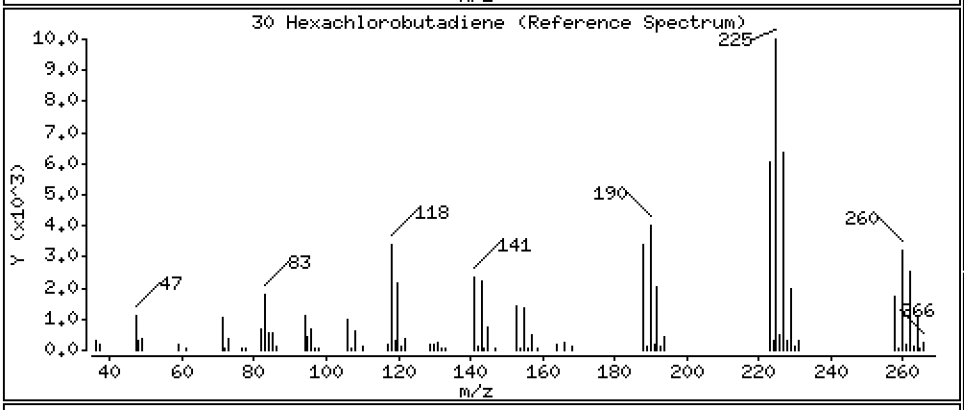
Column diameter: 0.25

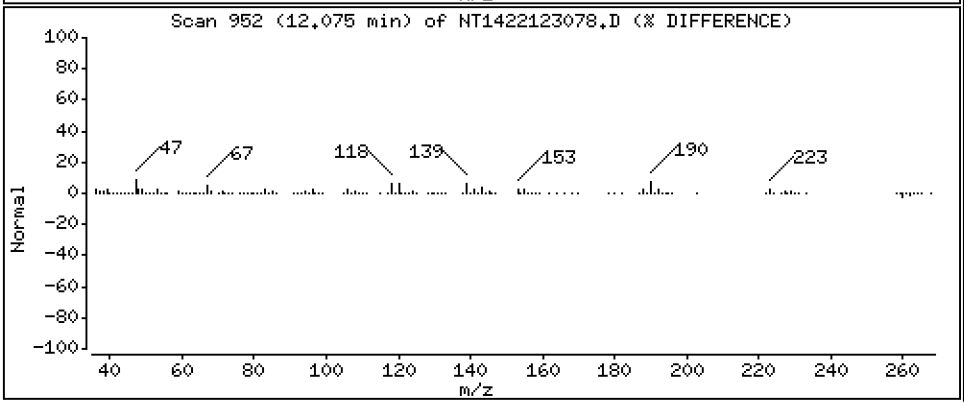
30 Hexachlorobutadiene

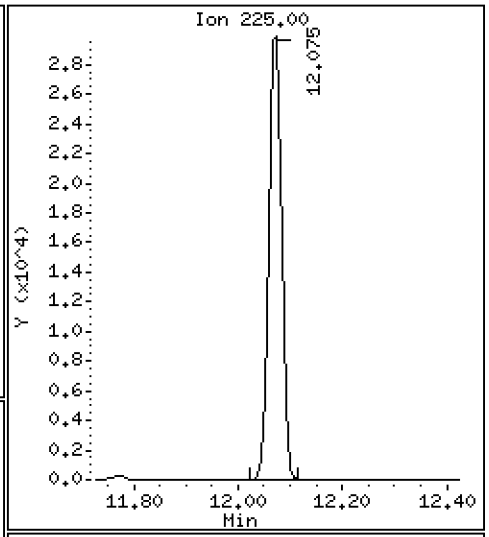
Concentration: 4.055 ug/mL

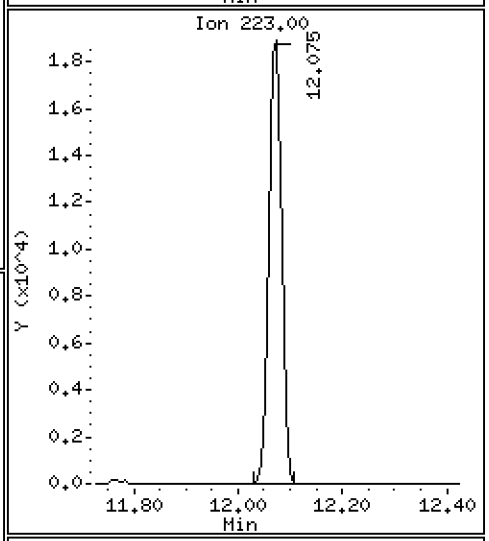


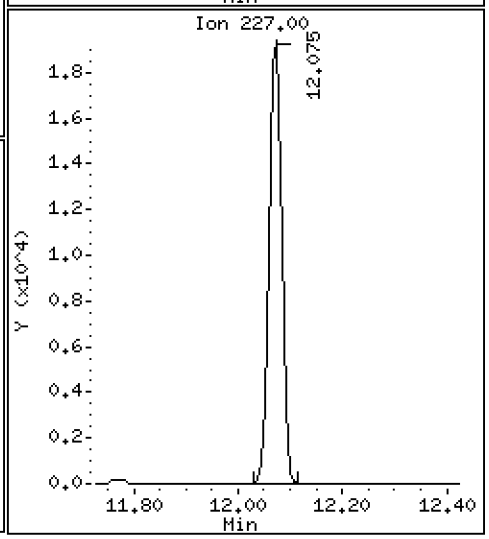












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

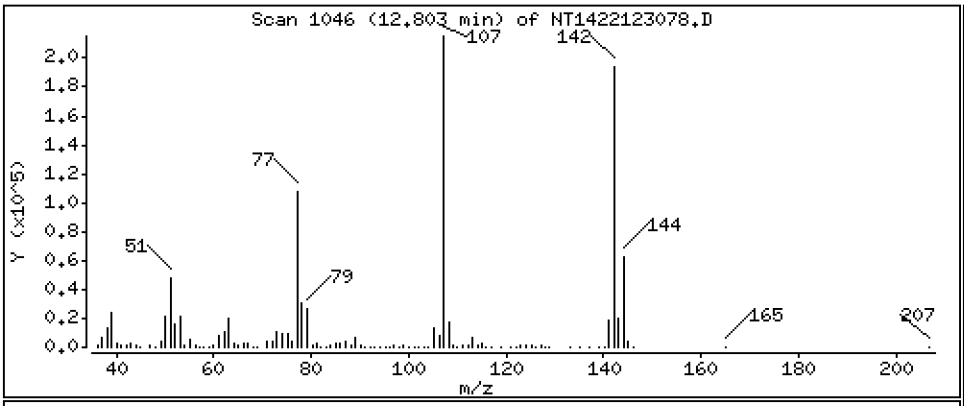
Operator: VTS

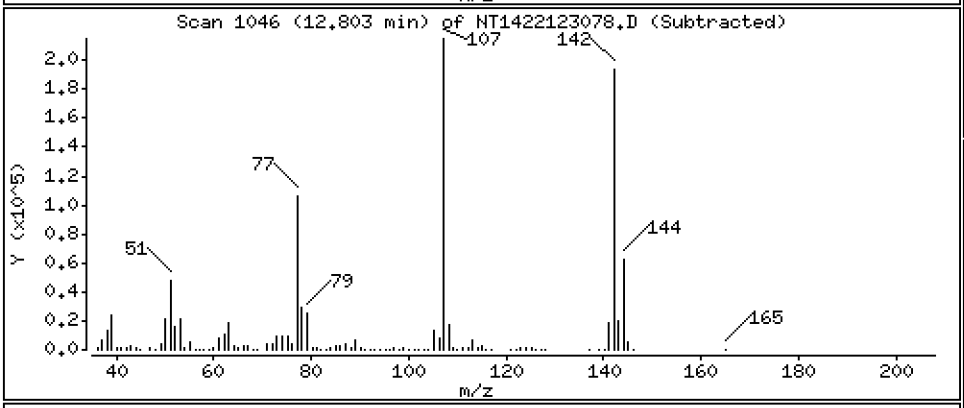
Column phase: ZB-5msi

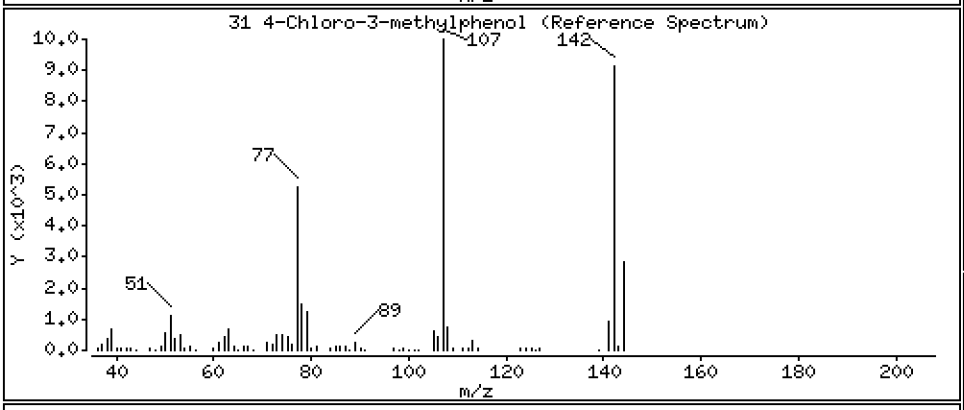
Column diameter: 0.25

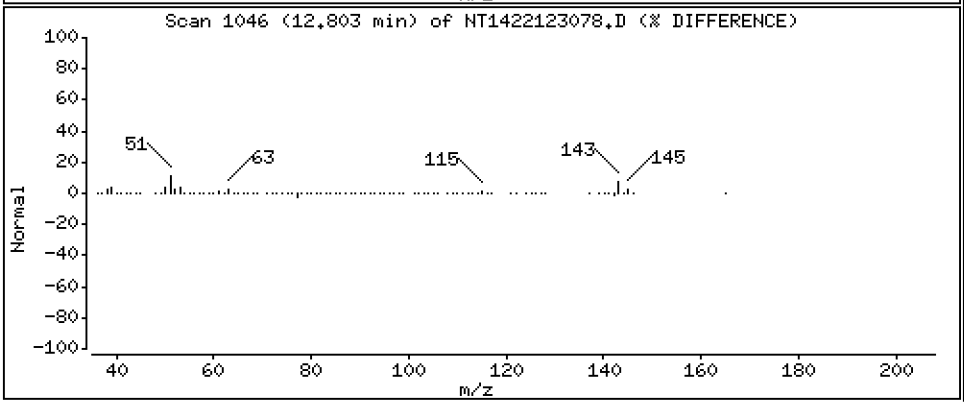
31 4-Chloro-3-methylphenol

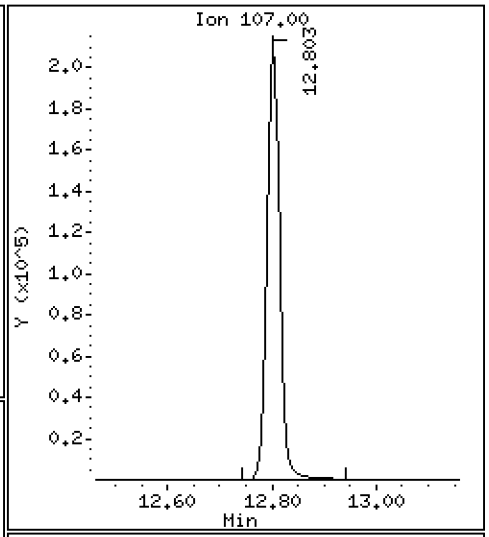
Concentration: 15.88 ug/mL

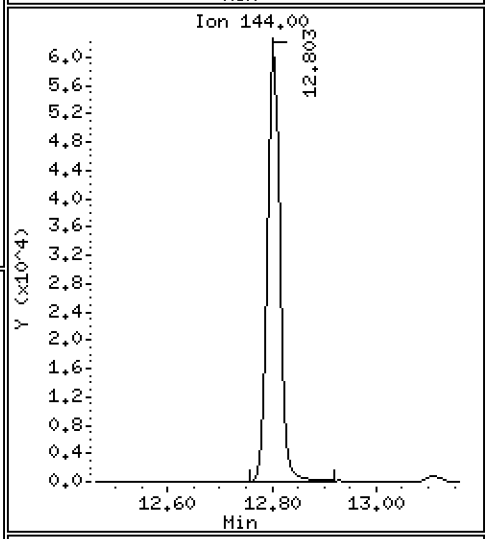


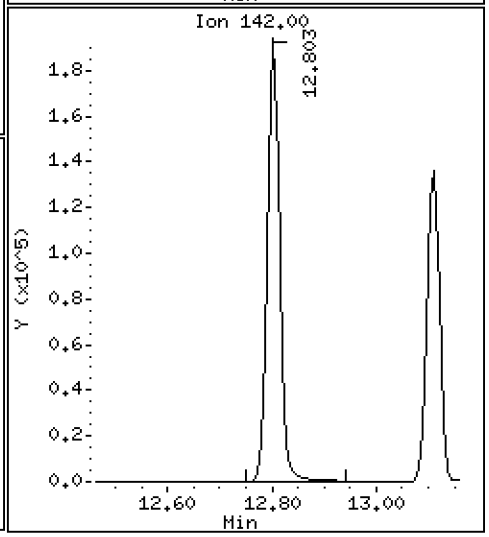












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

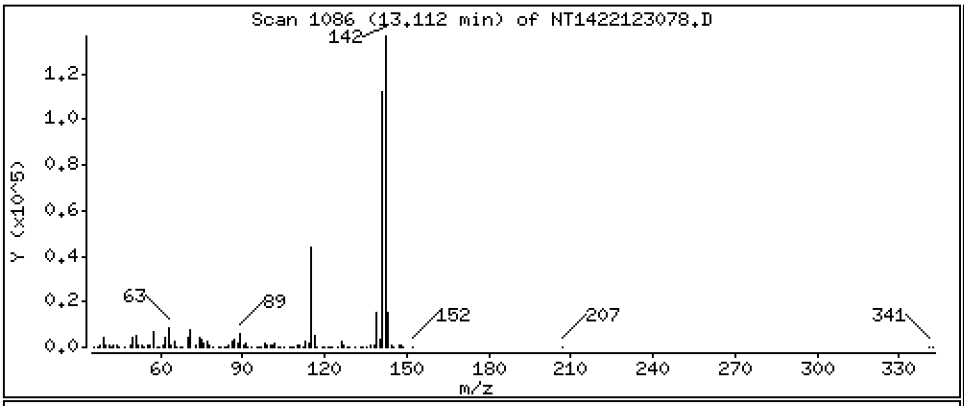
Operator: VTS

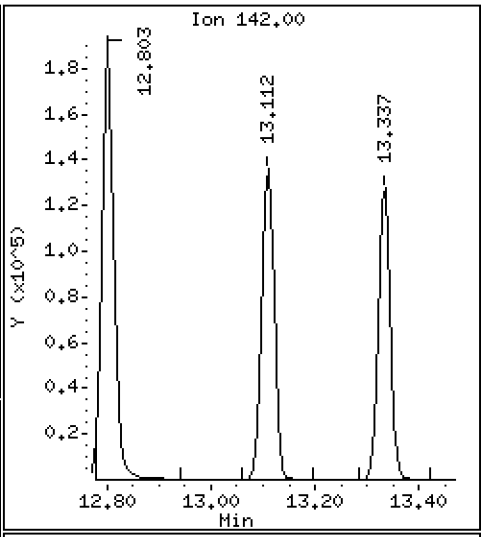
Column phase: ZB-5msi

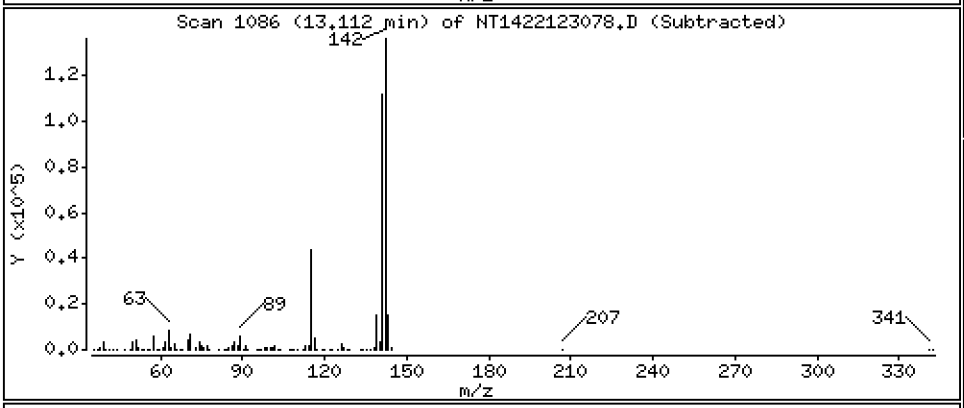
Column diameter: 0.25

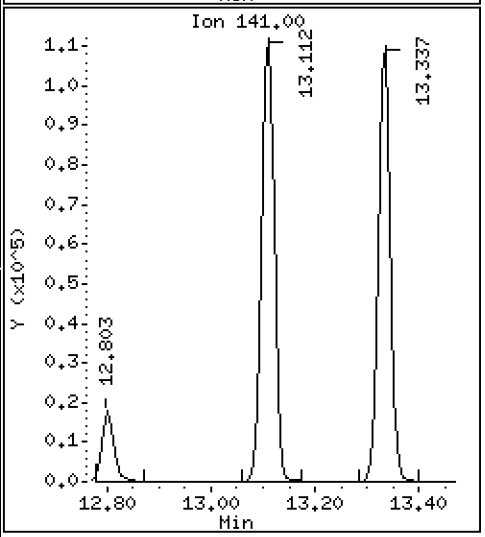
32 2-Methylnaphthalene

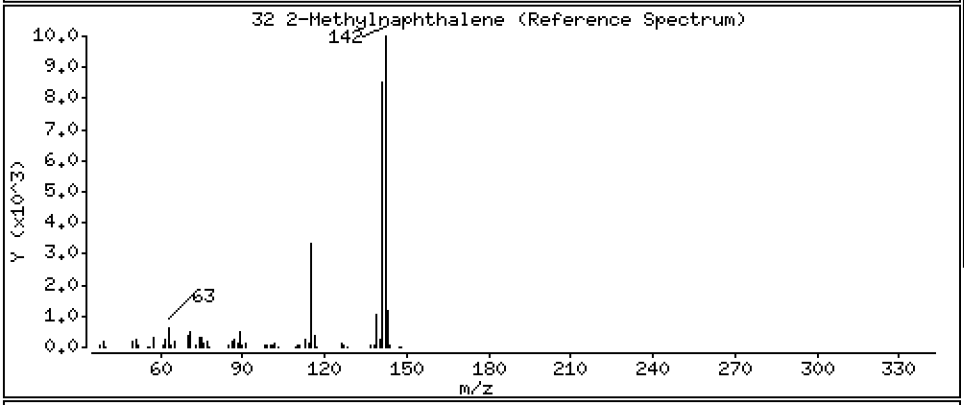
Concentration: 3.972 ug/mL

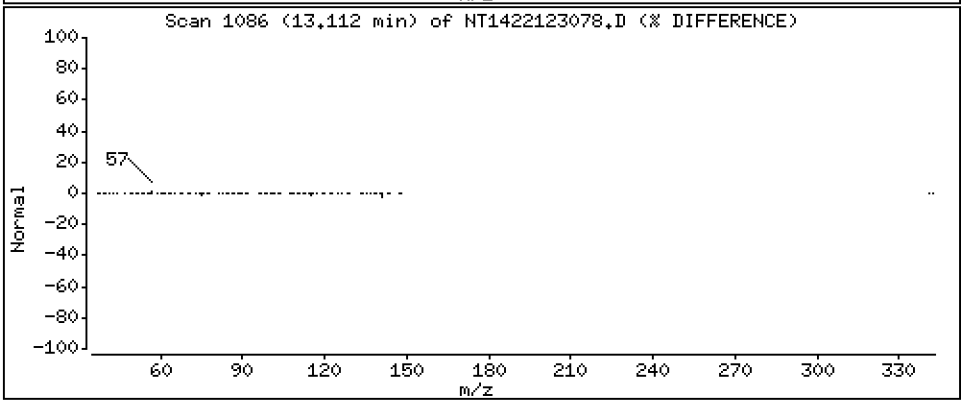












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

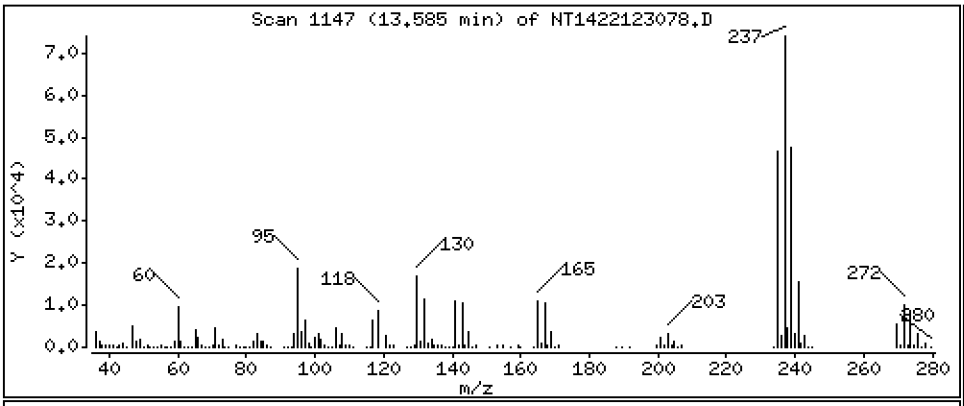
Operator: VTS

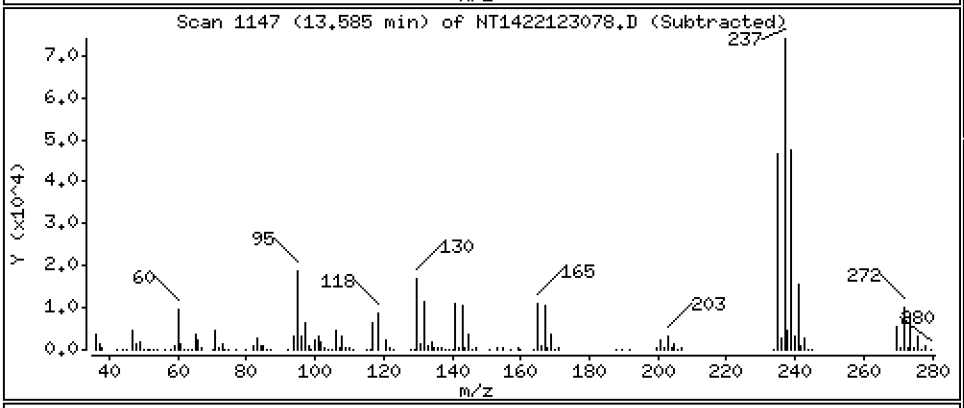
Column phase: ZB-5msi

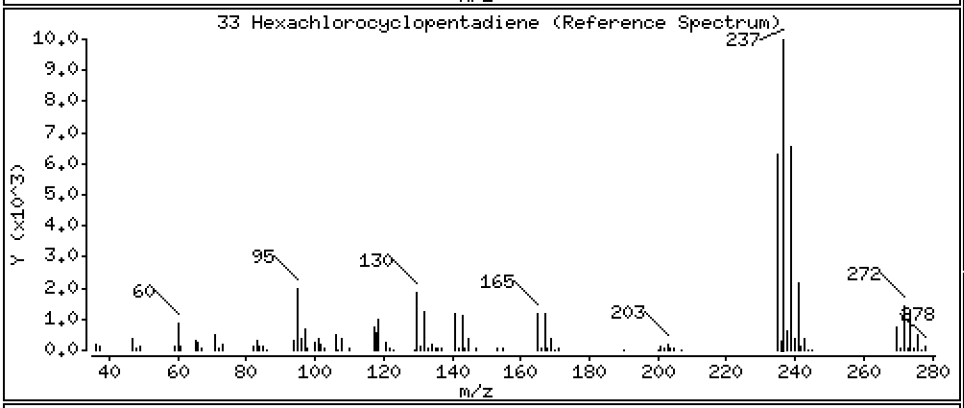
Column diameter: 0.25

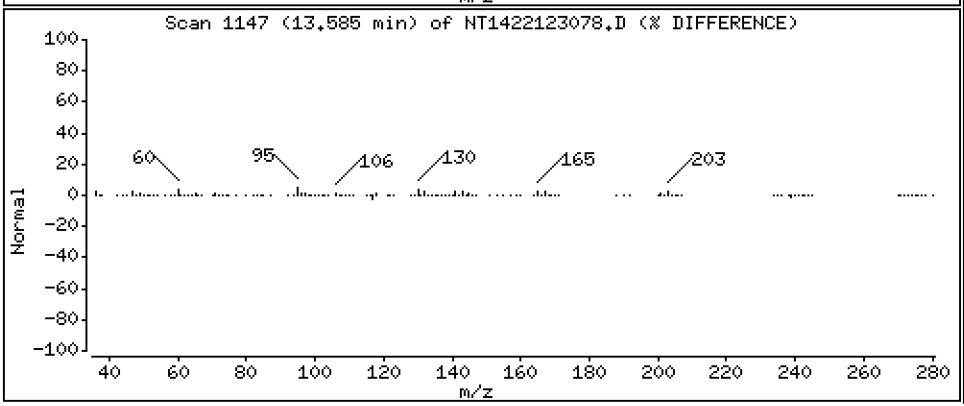
33 Hexachlorocyclopentadiene

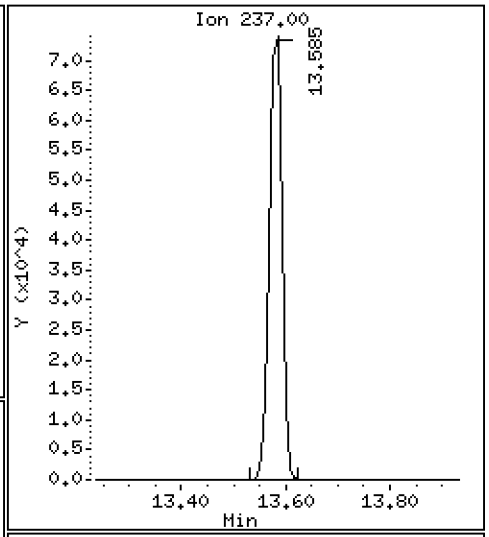
Concentration: 9.971 ug/mL

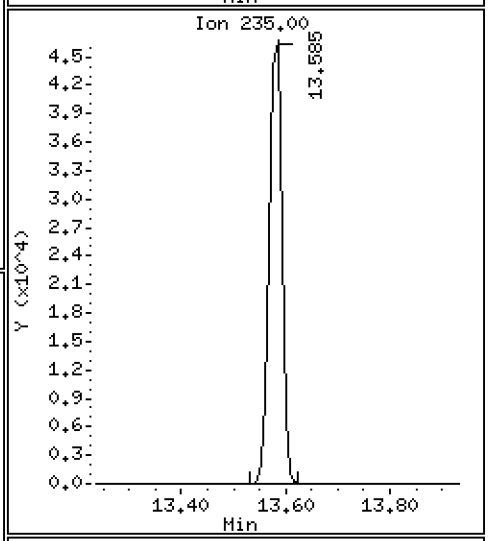


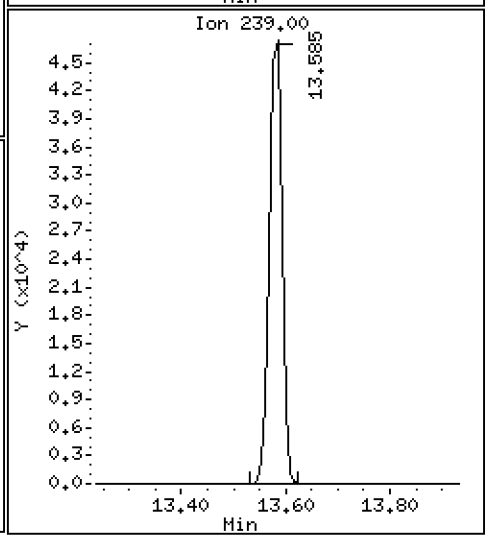












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

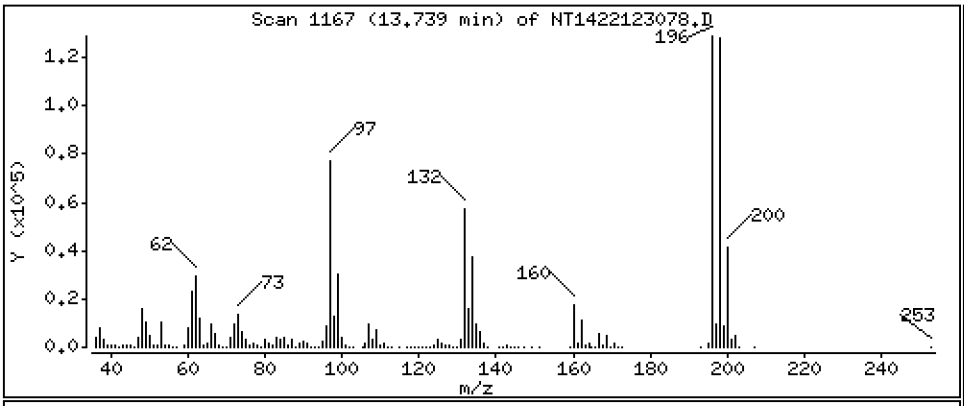
Operator: VTS

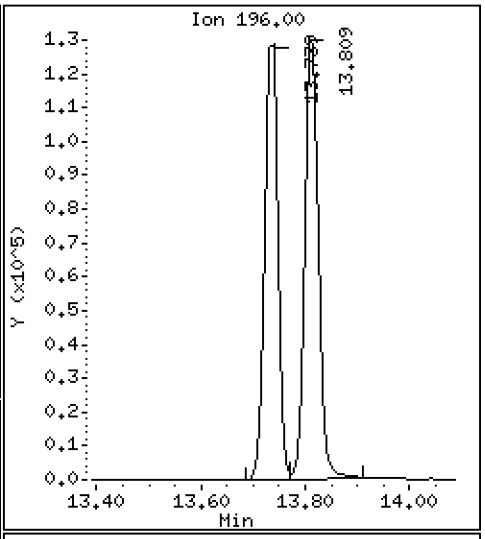
Column phase: ZB-5msi

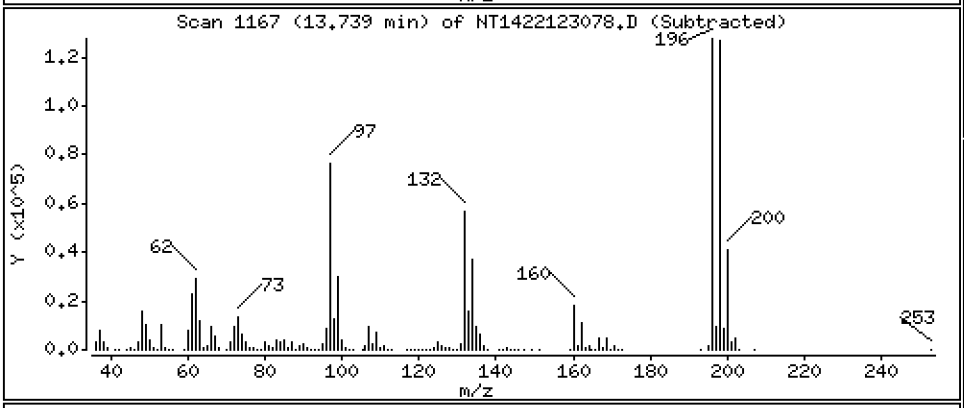
Column diameter: 0.25

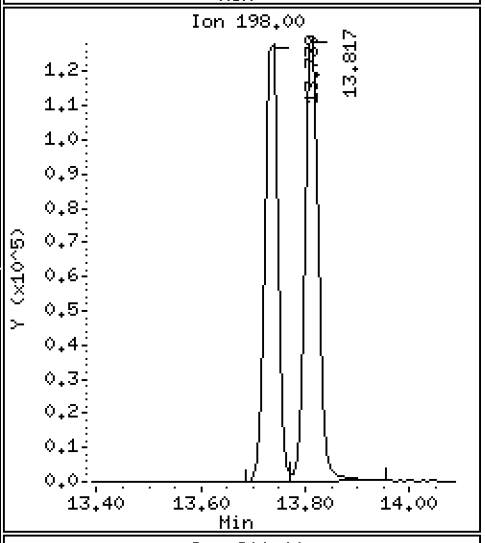
34 2,4,6-Trichlorophenol

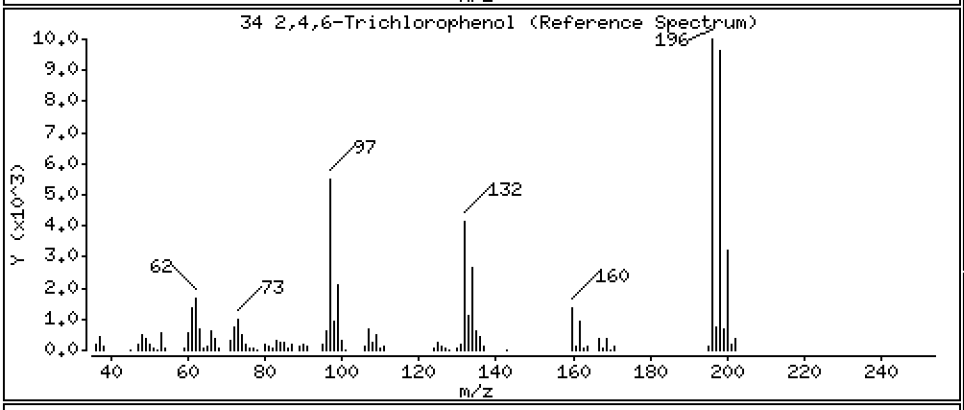
Concentration: 16.18 ug/mL

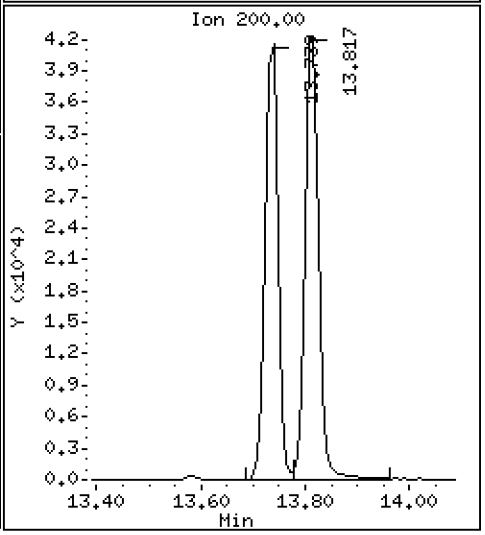


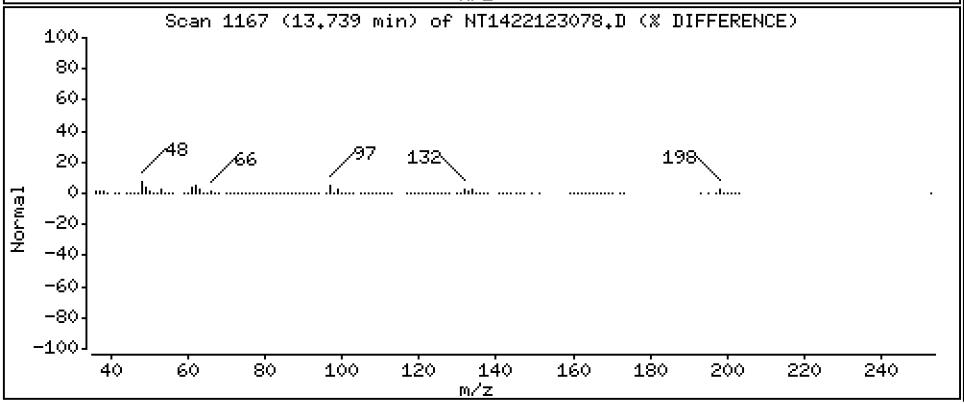












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

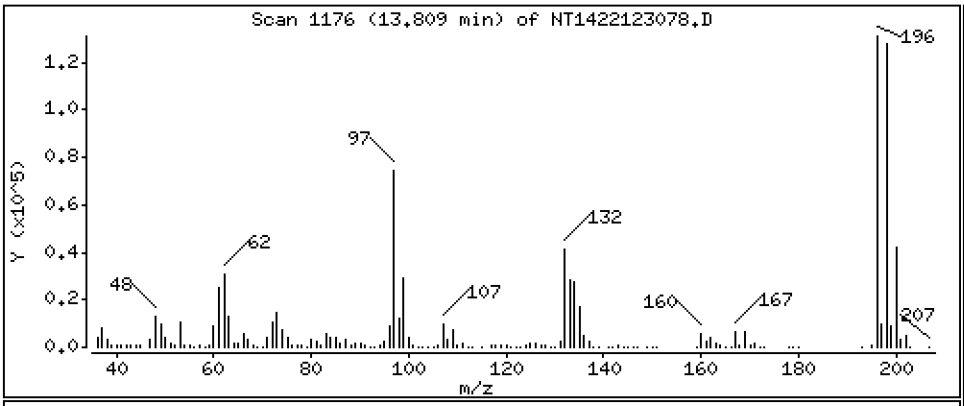
Operator: VTS

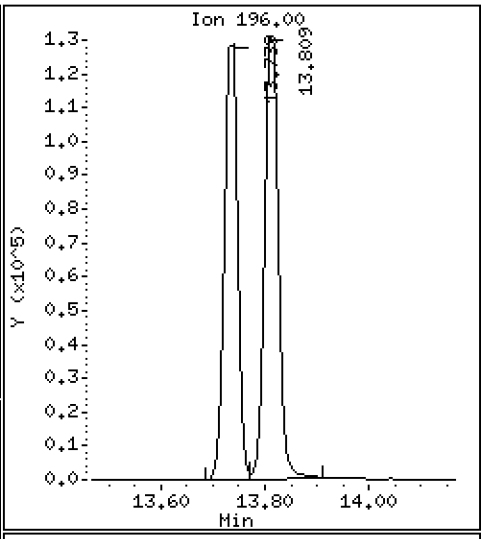
Column phase: ZB-5msi

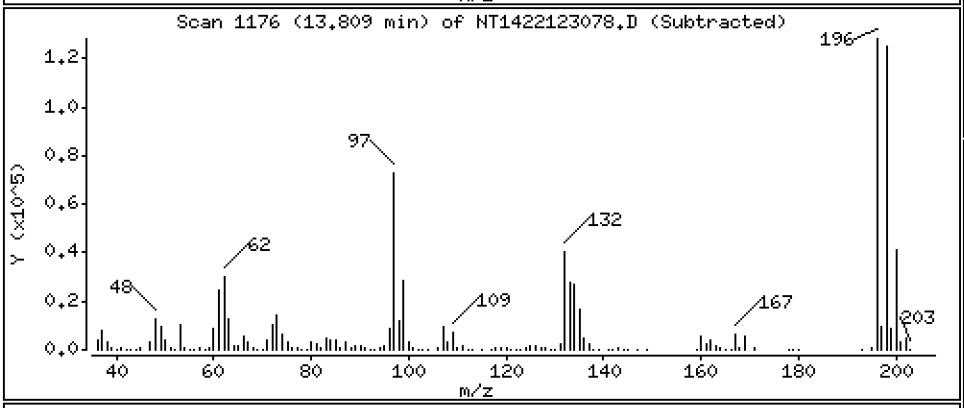
Column diameter: 0.25

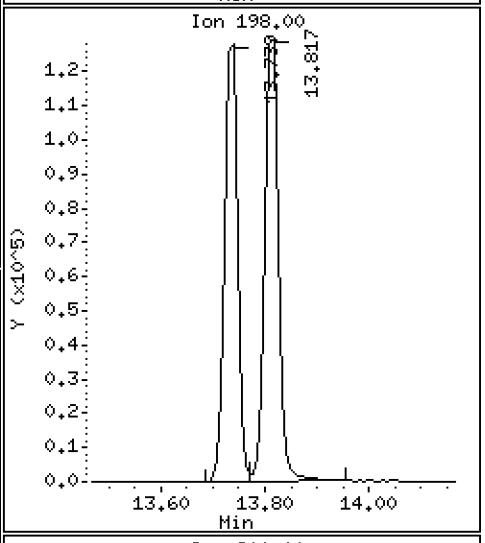
35 2,4,5-Trichlorophenol

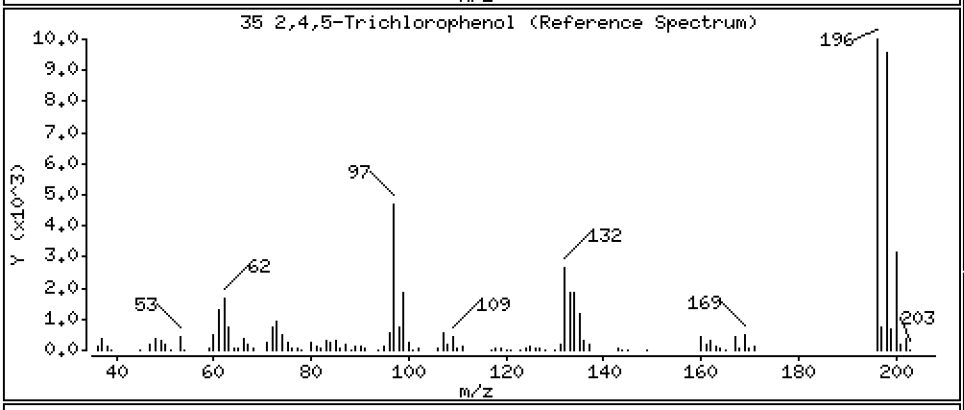
Concentration: 14.81 ug/mL

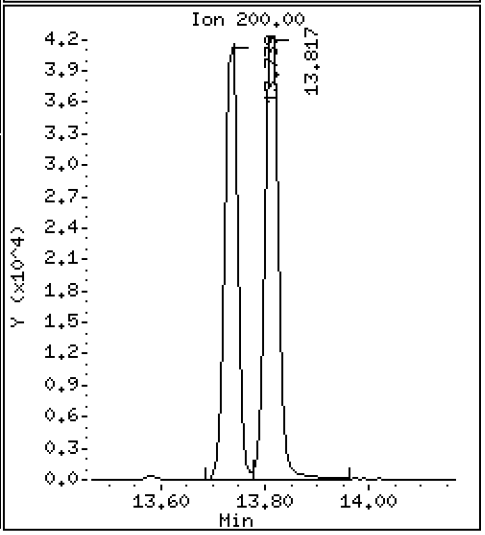


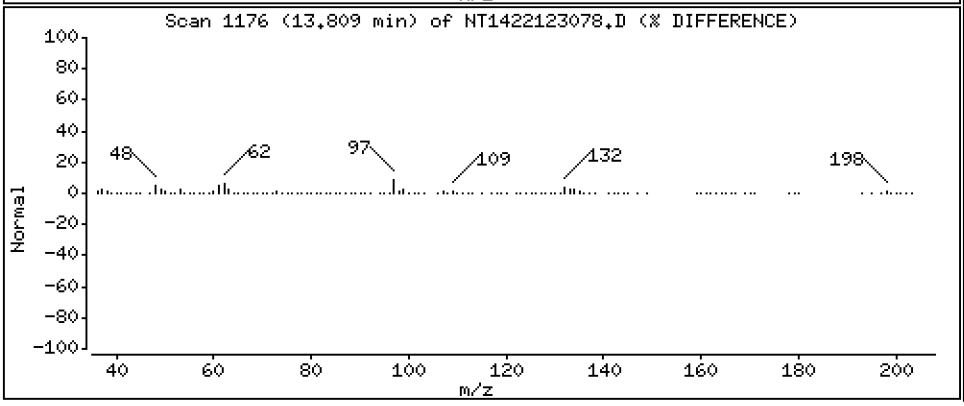












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

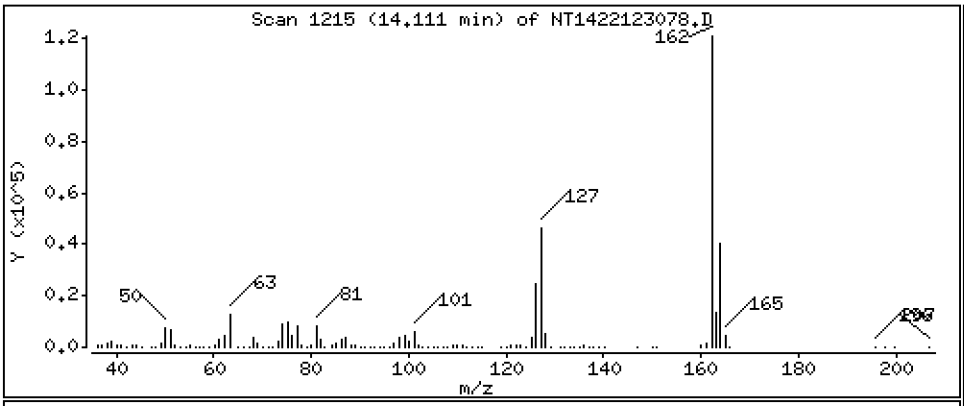
Operator: VTS

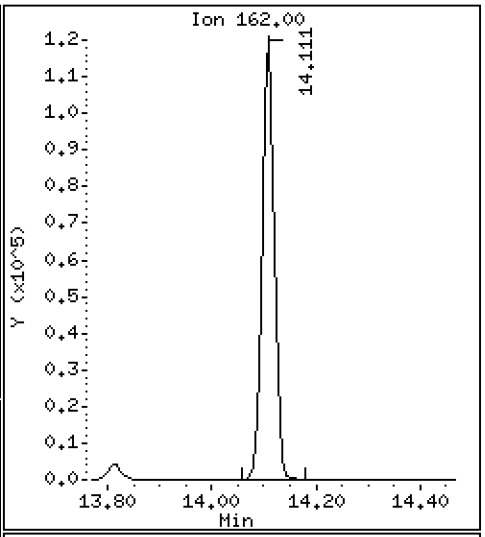
Column phase: ZB-5msi

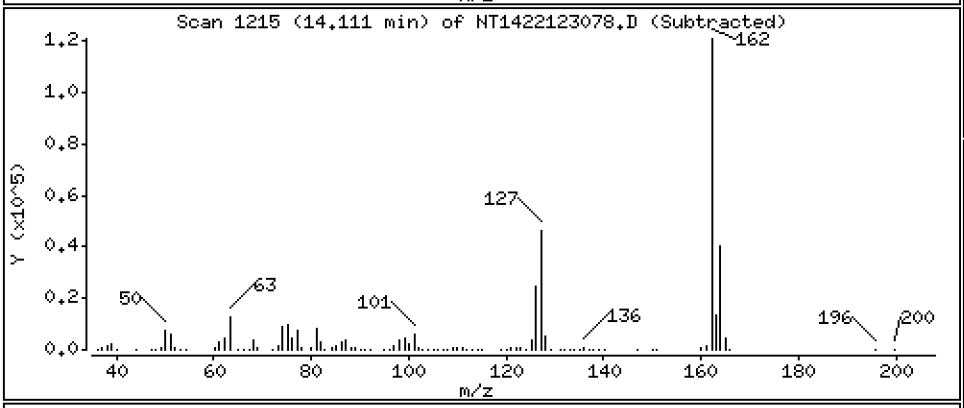
Column diameter: 0.25

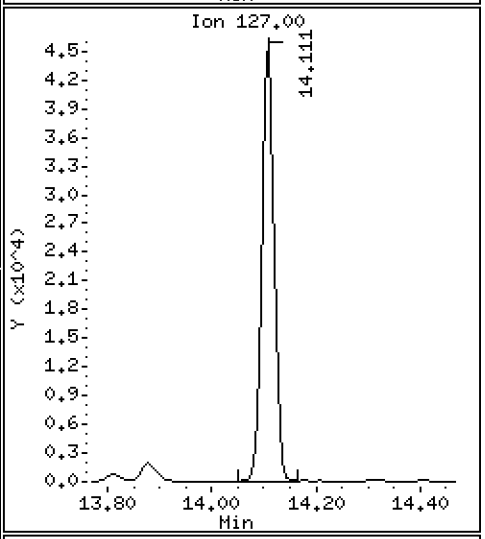
37 2-Chloronaphthalene

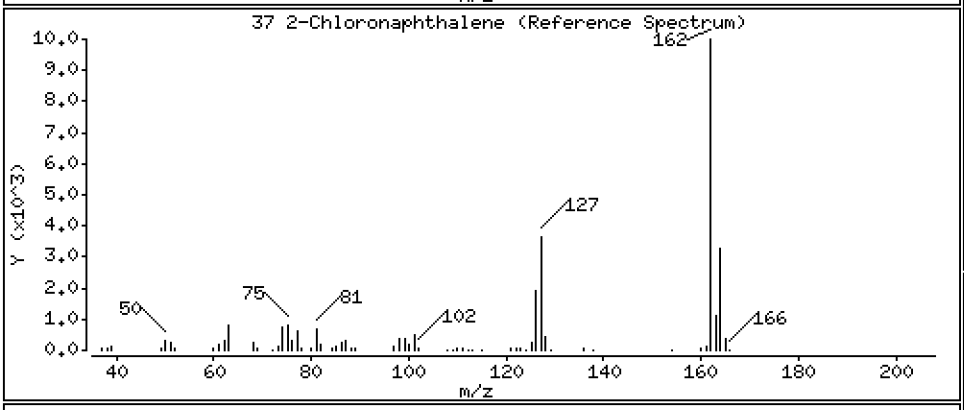
Concentration: 4.213 ug/mL

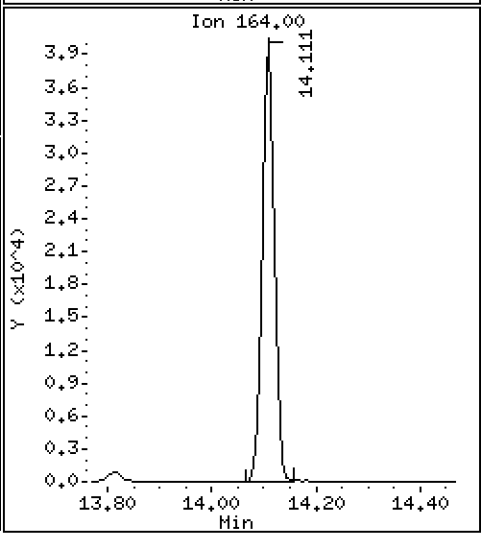


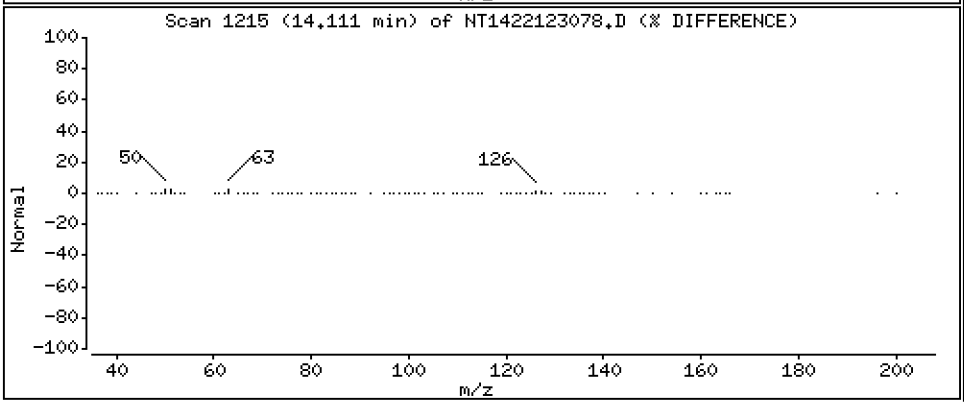












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

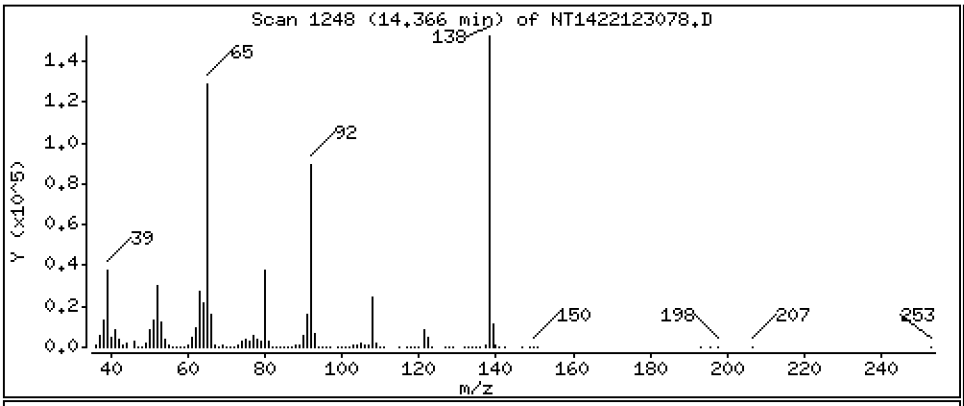
Operator: VTS

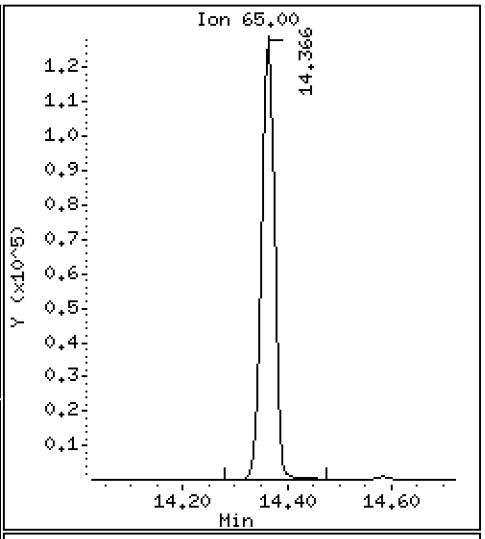
Column phase: ZB-5msi

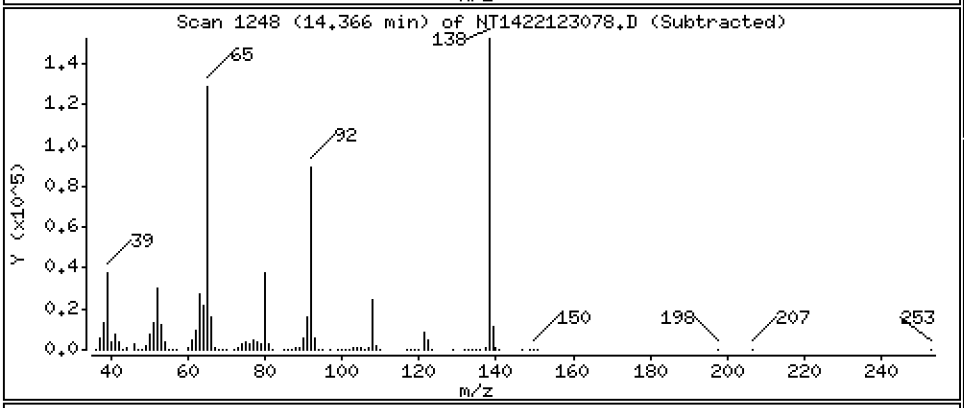
Column diameter: 0.25

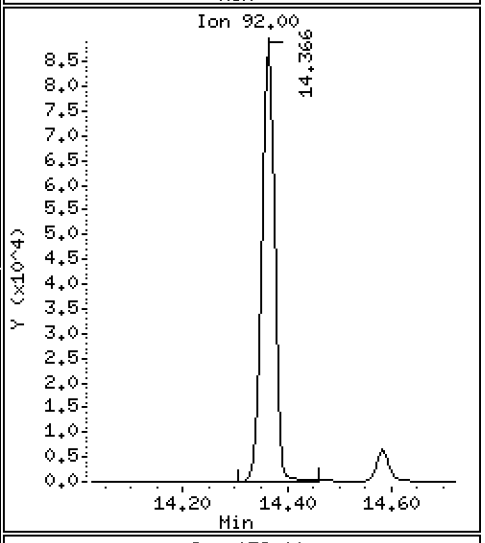
38 2-Nitroaniline

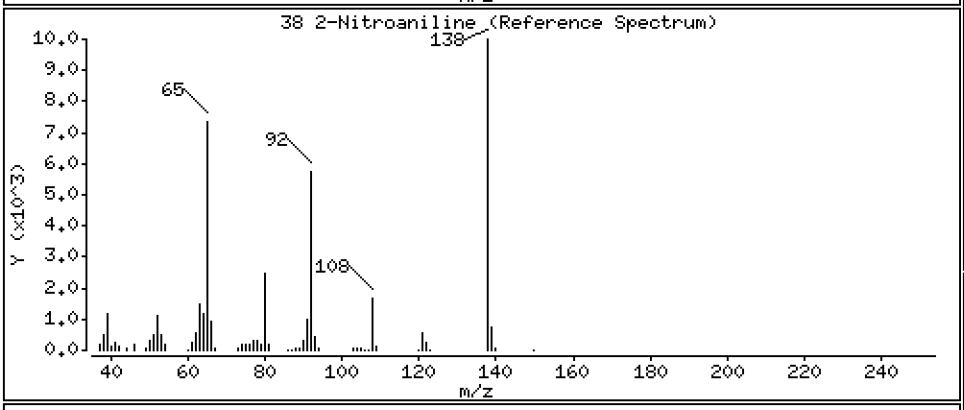
Concentration: 17.89 ug/mL

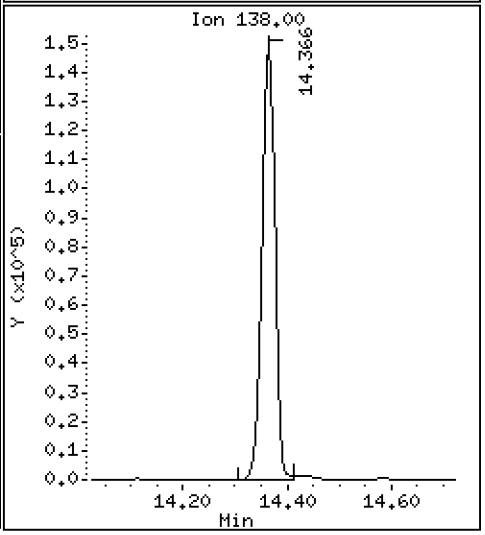


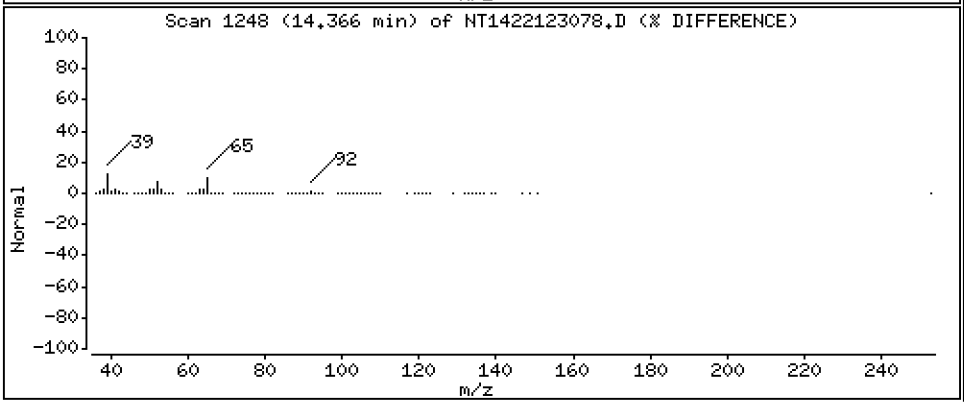












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123078.D

Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

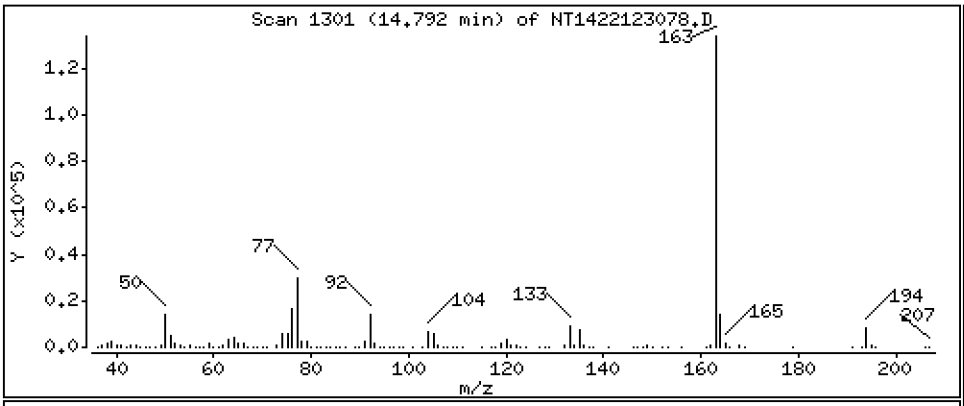
Operator: VTS

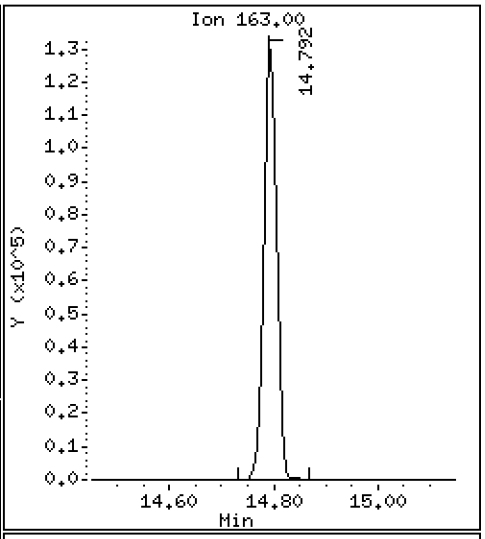
Column phase: ZB-5msi

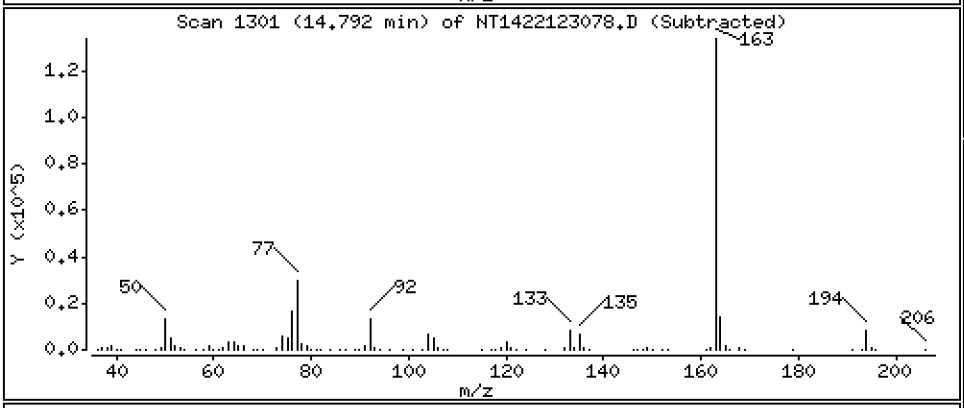
Column diameter: 0.25

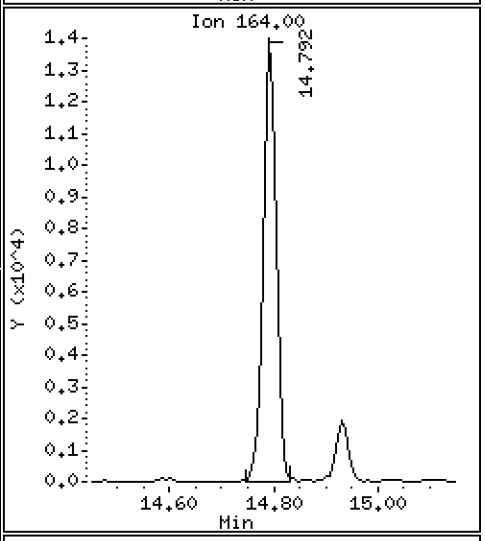
39 Dimethylphthalate

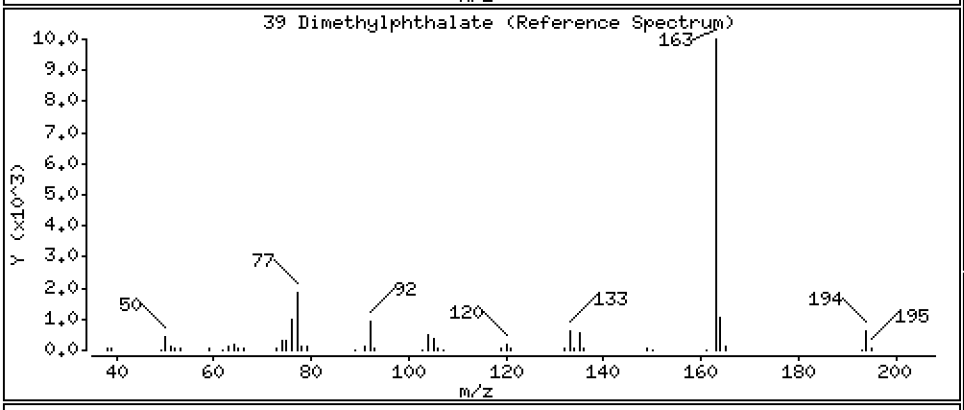
Concentration: 4.843 ug/mL

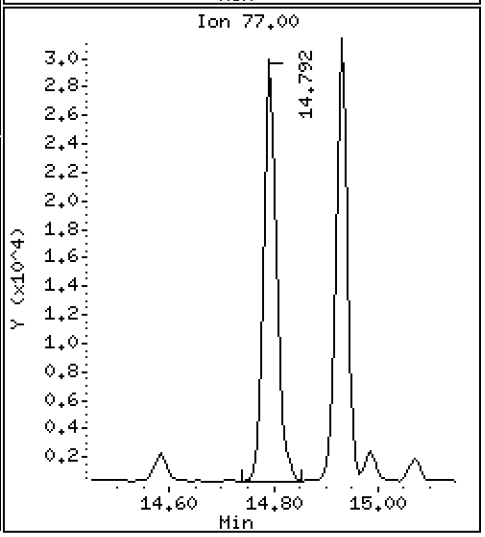


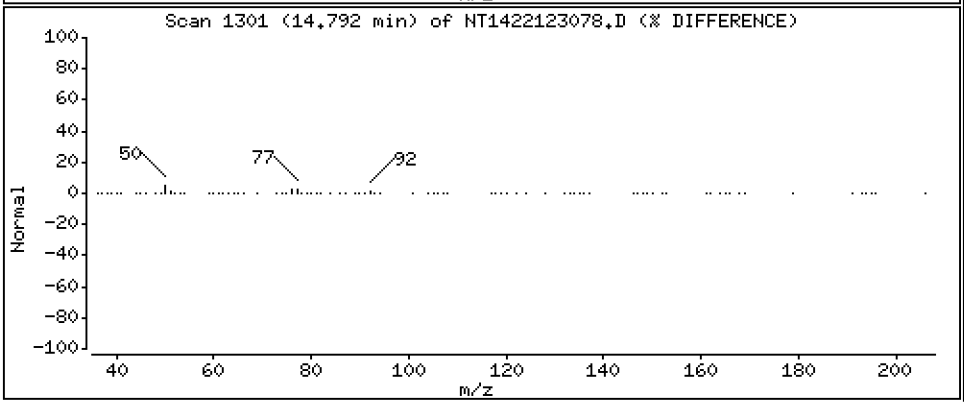












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

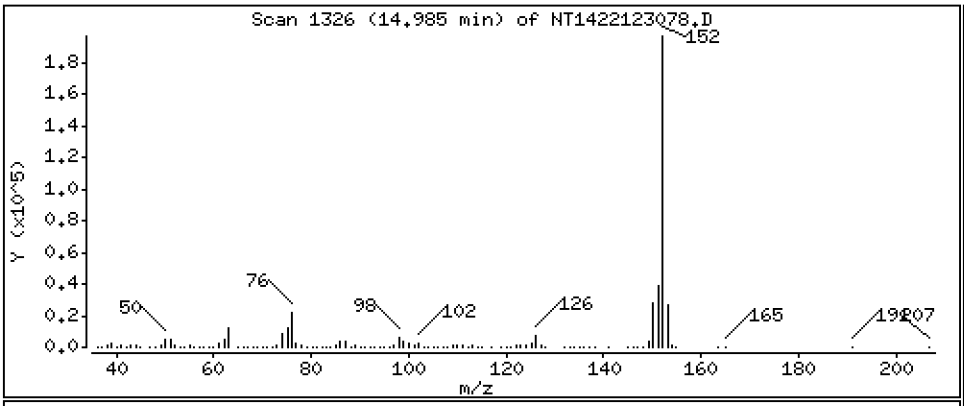
Operator: VTS

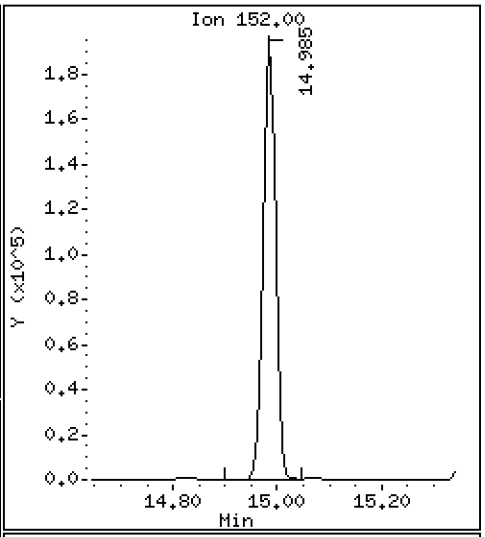
Column phase: ZB-5msi

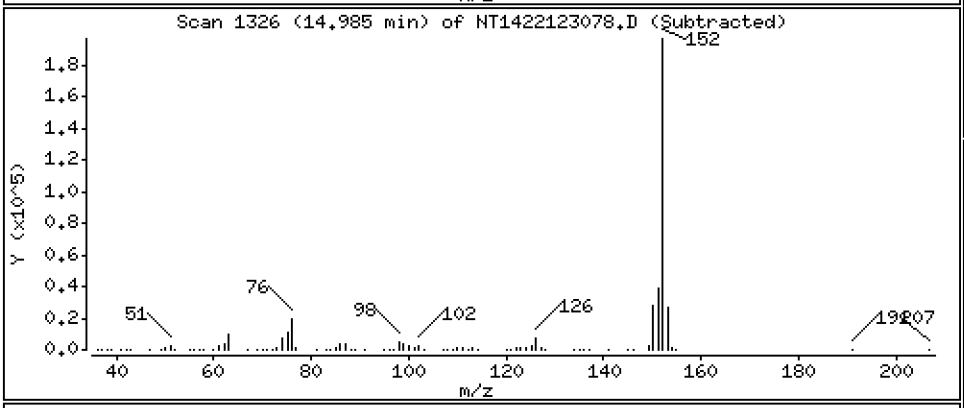
Column diameter: 0.25

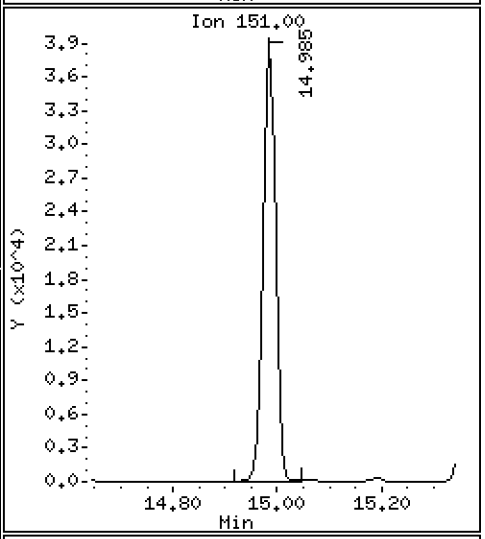
40 Acenaphthylene

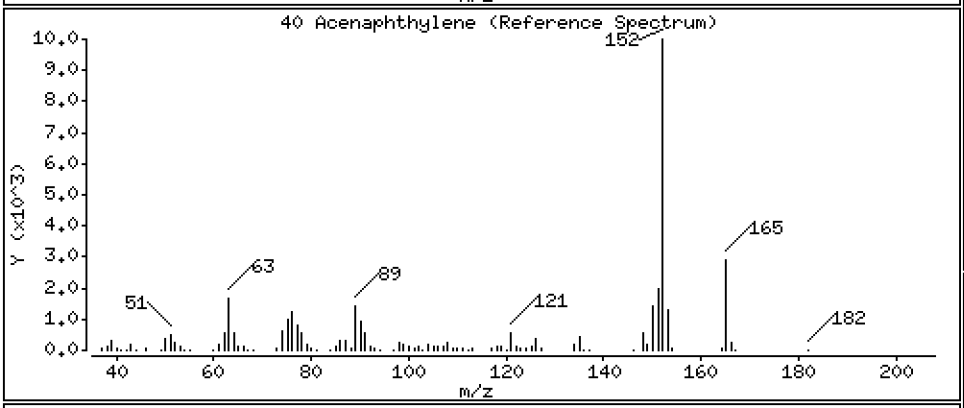
Concentration: 4.410 ug/mL

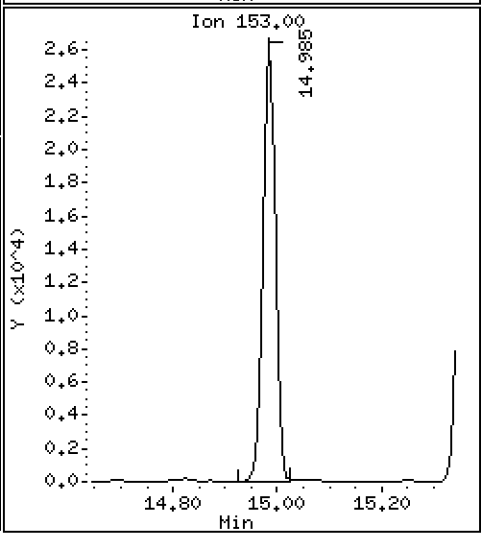


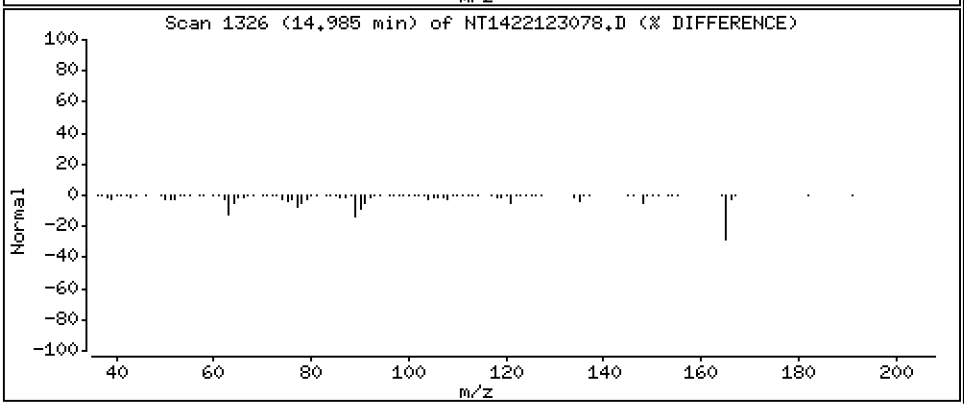












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

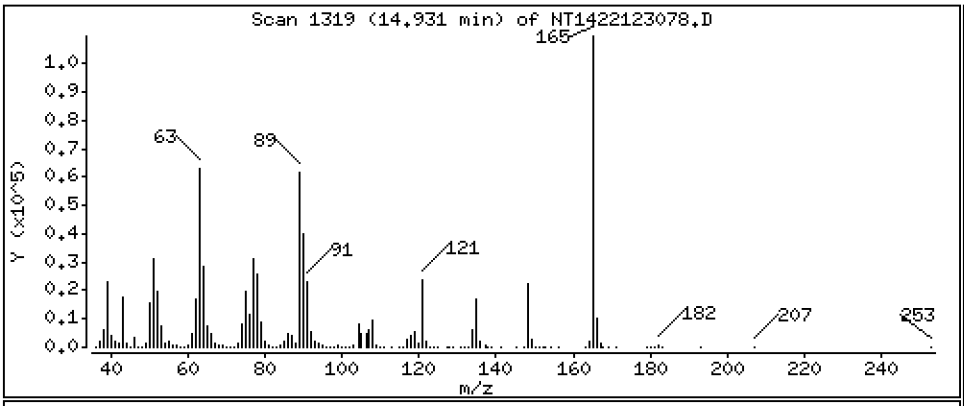
Operator: VTS

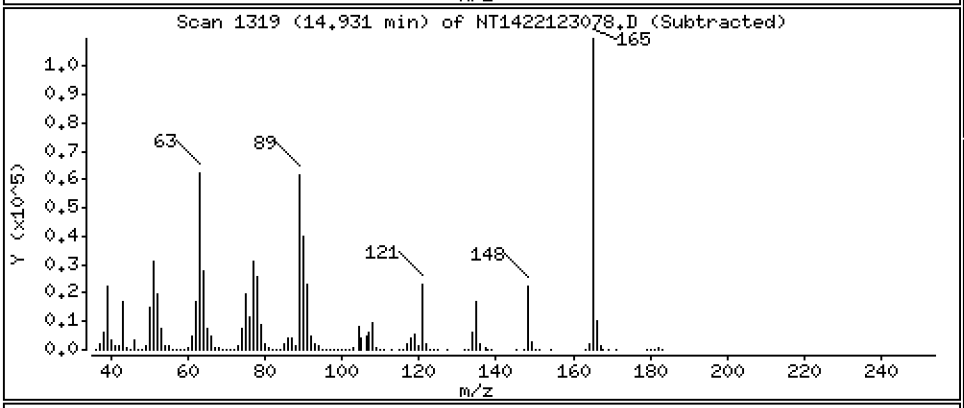
Column phase: ZB-5msi

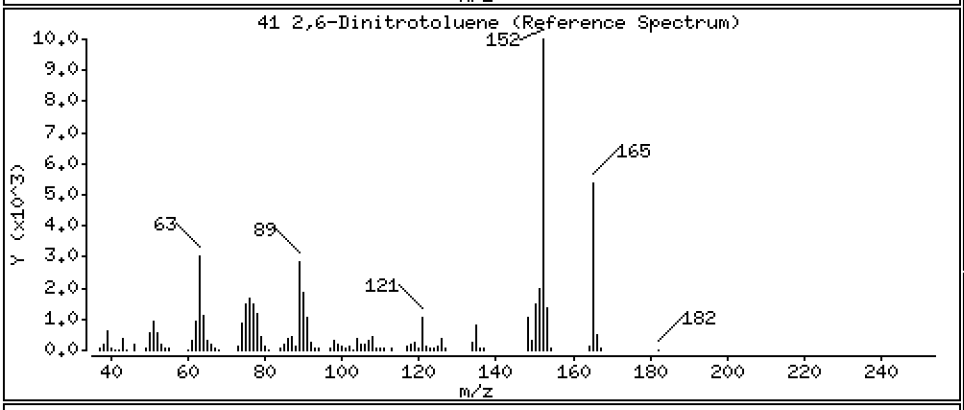
Column diameter: 0.25

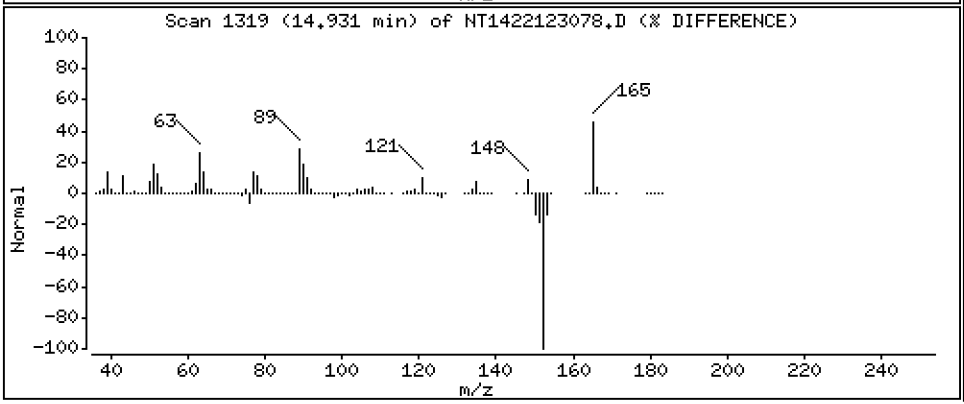
41 2,6-Dinitrotoluene

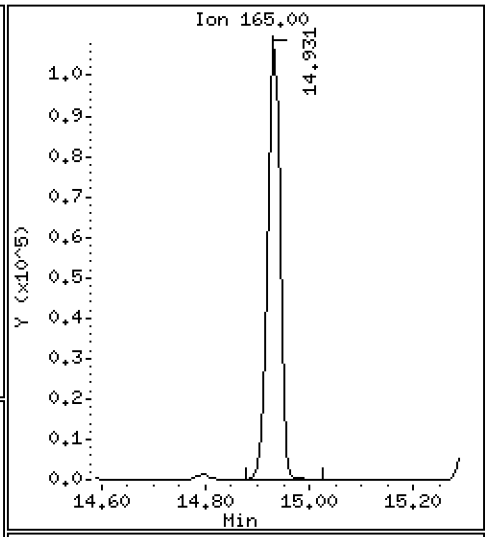
Concentration: 16.79 ug/mL

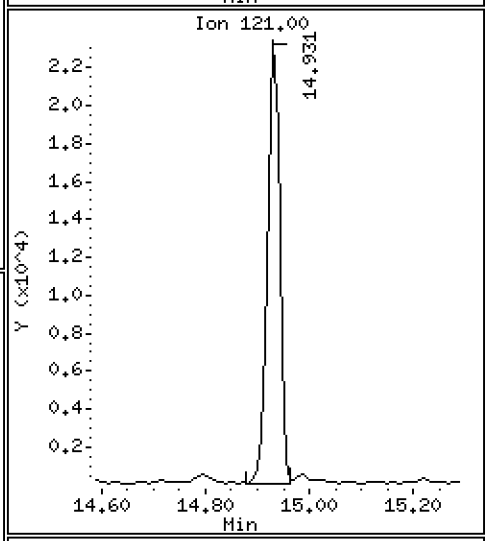


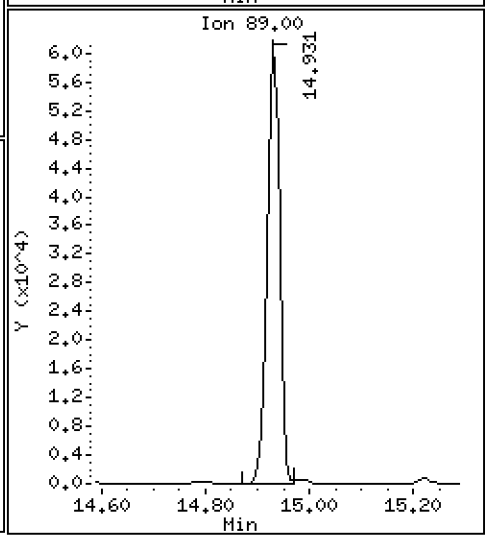












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

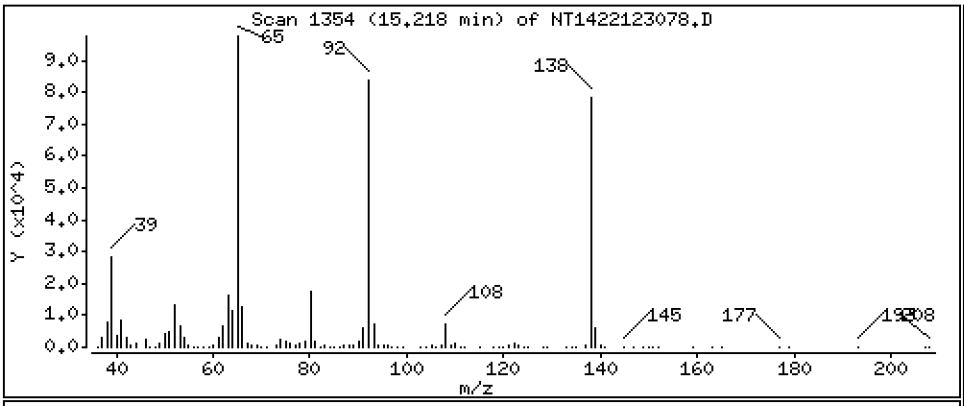
Operator: VTS

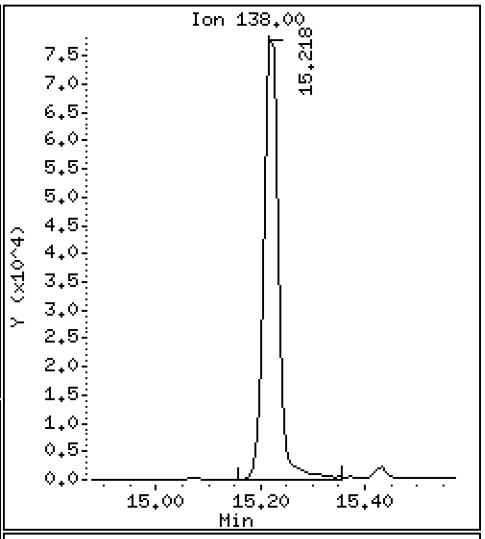
Column phase: ZB-5msi

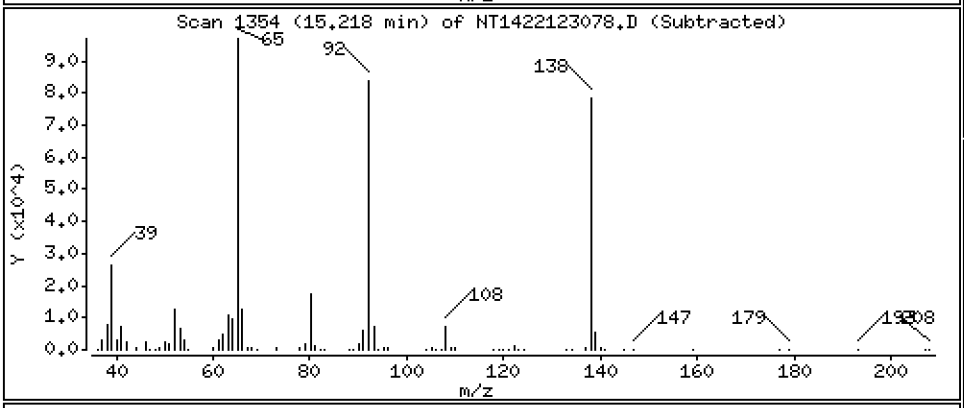
Column diameter: 0.25

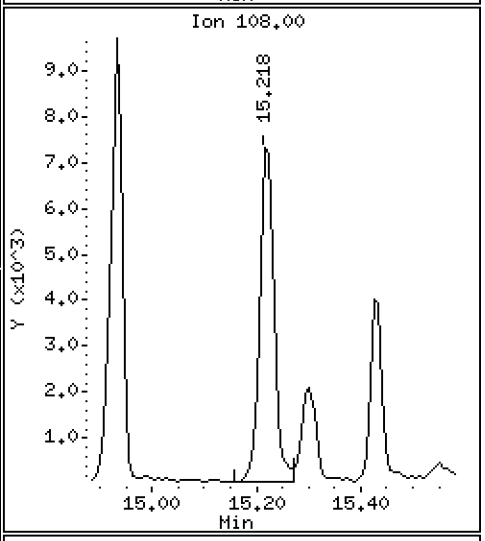
43 3-Nitroaniline

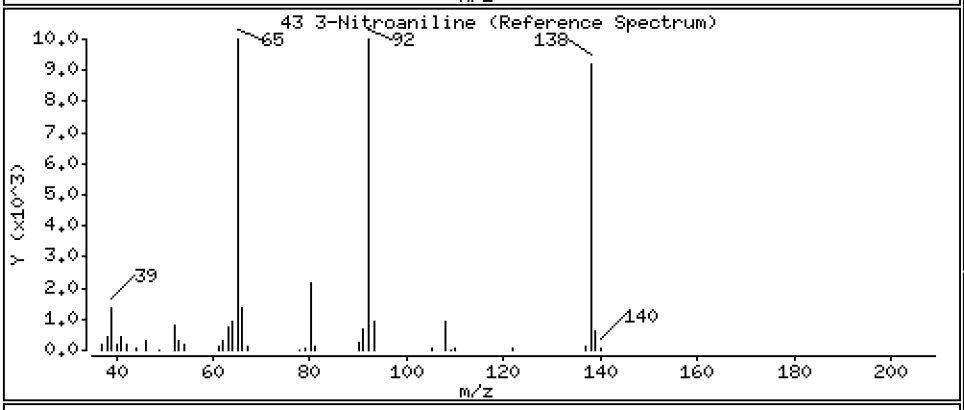
Concentration: 11.92 ug/mL

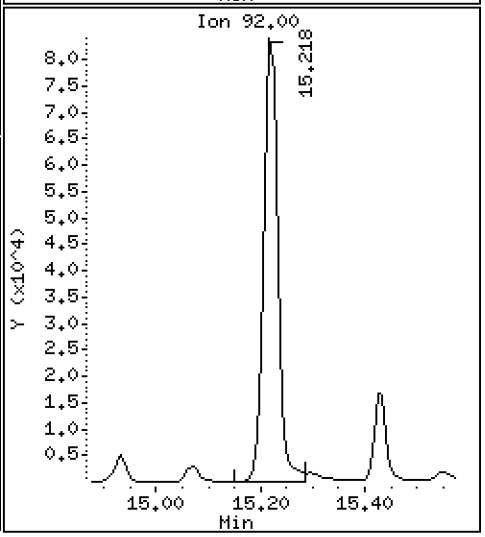


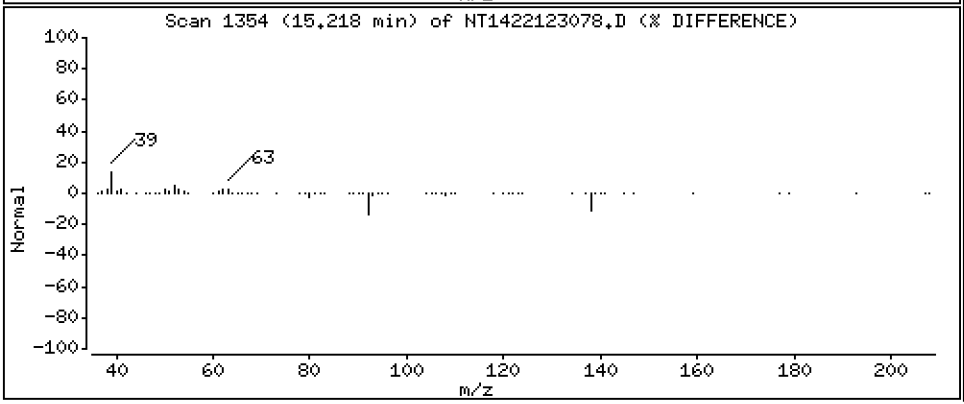












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

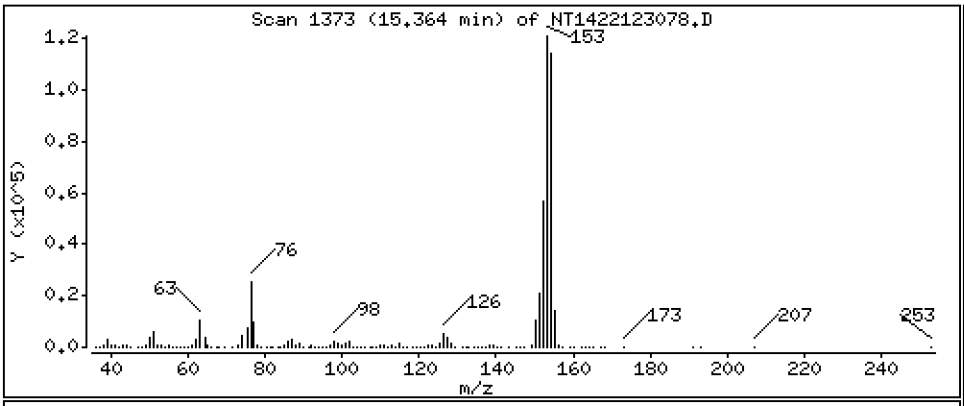
Operator: VTS

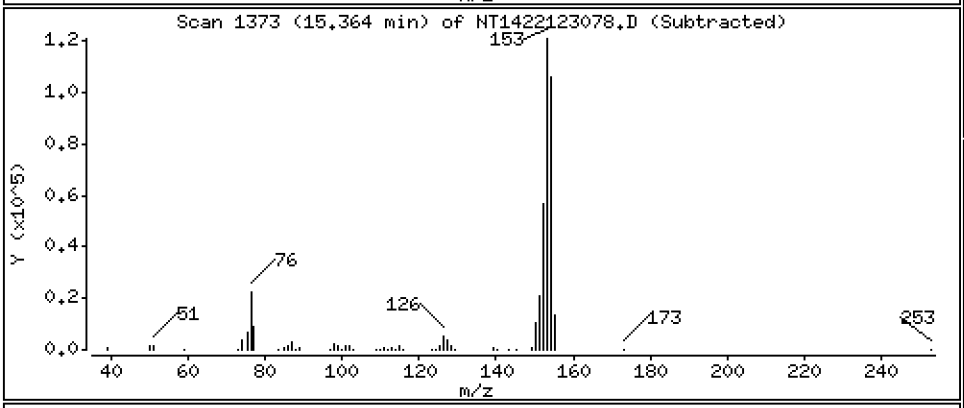
Column phase: ZB-5msi

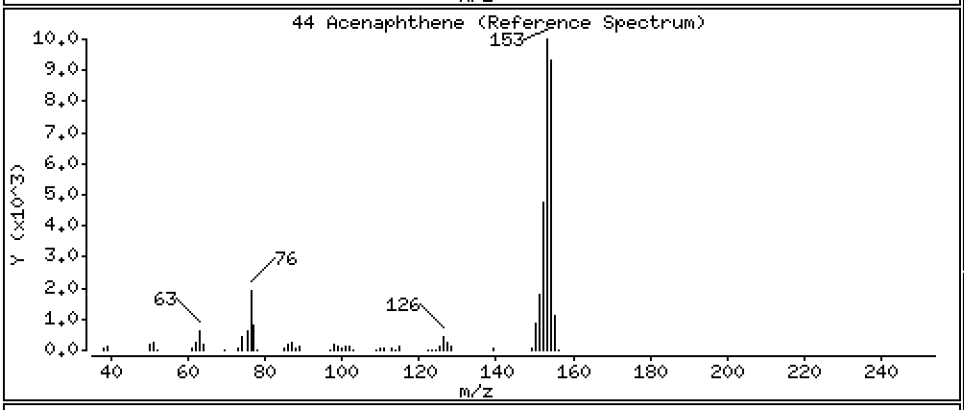
Column diameter: 0.25

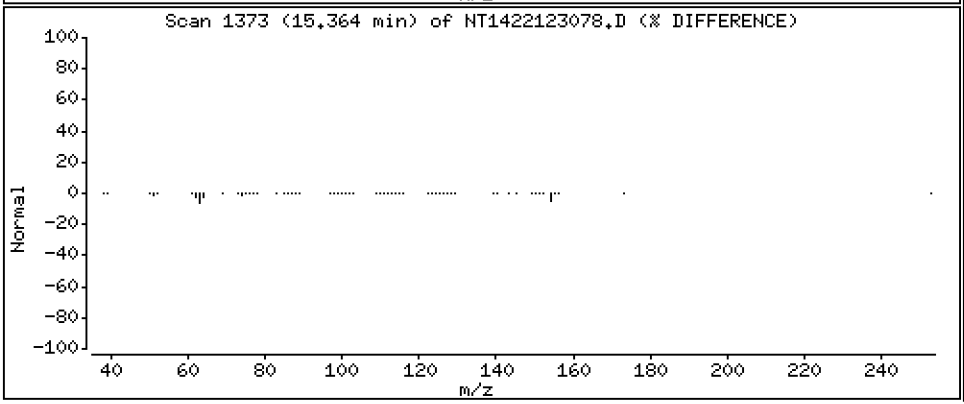
44 Acenaphthene

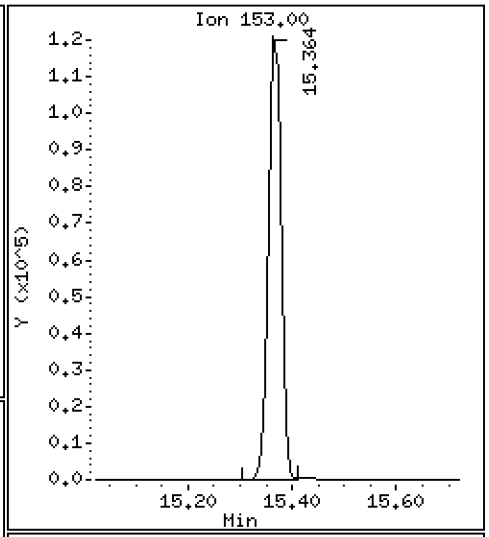
Concentration: 4.531 ug/mL

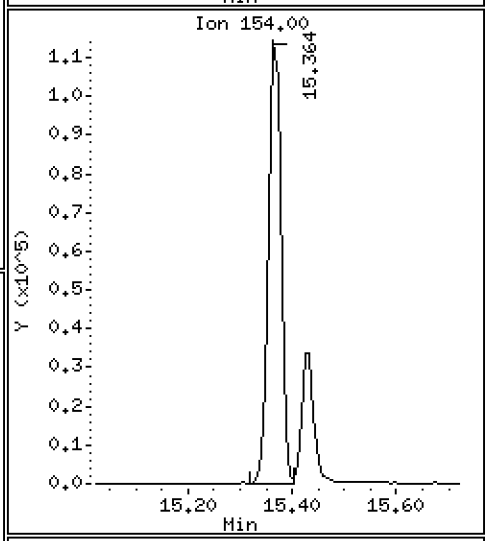


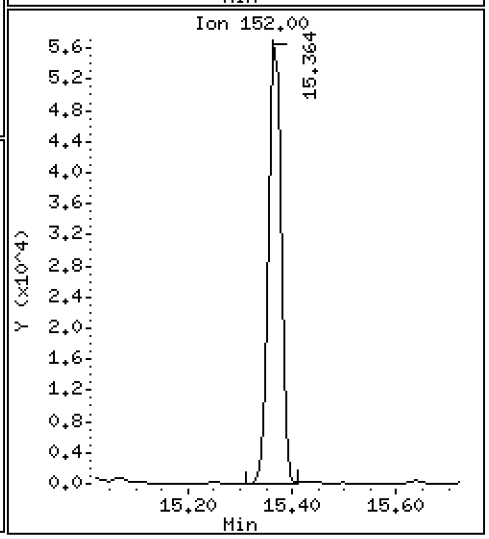












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

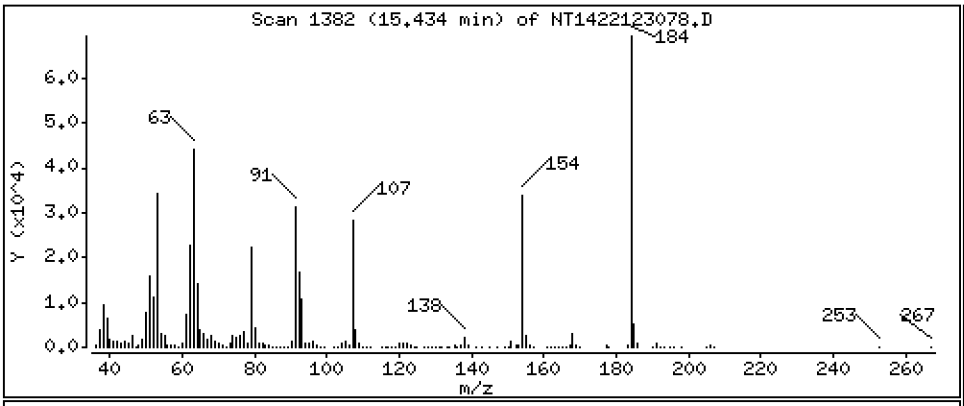
Operator: VTS

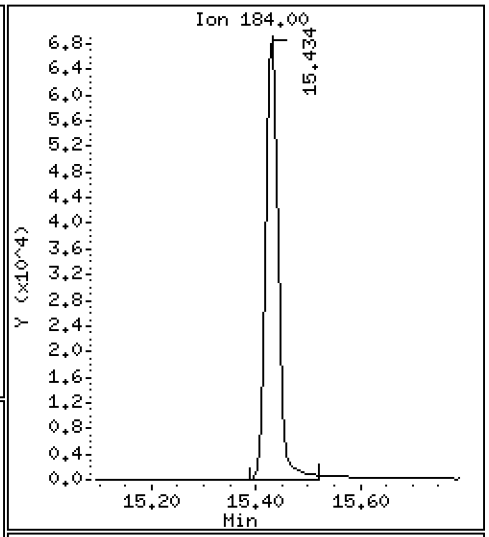
Column phase: ZB-5msi

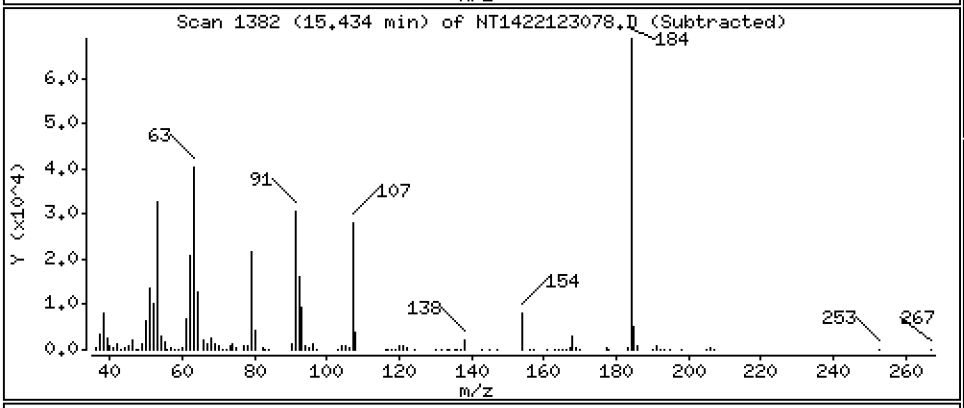
Column diameter: 0.25

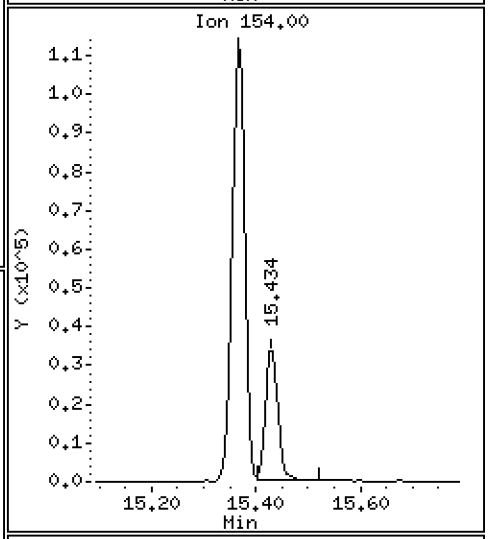
45 2,4-Dinitrophenol

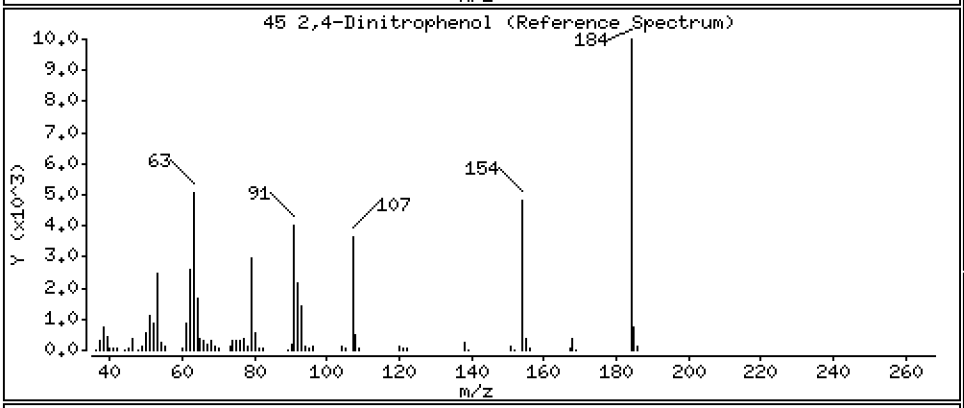
Concentration: 12.59 ug/mL

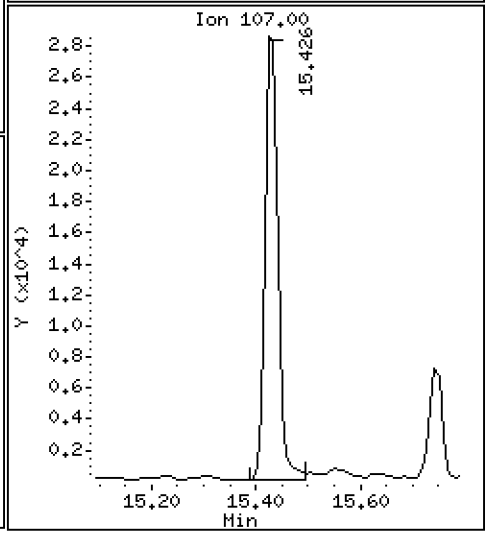


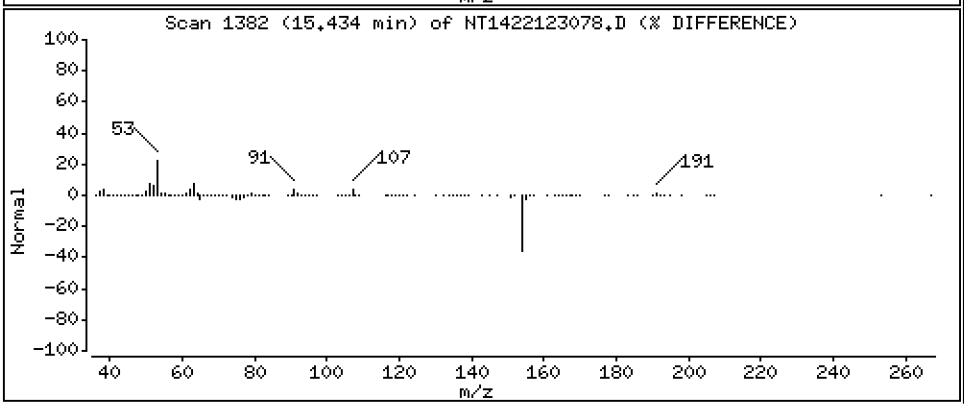












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

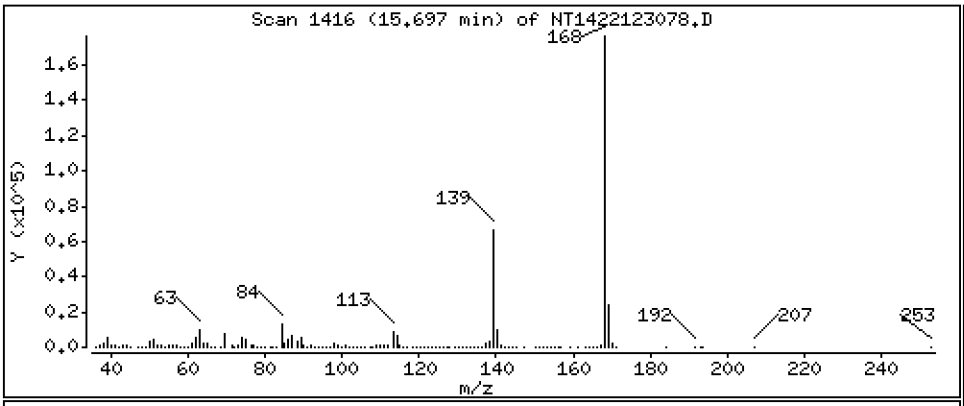
Operator: VTS

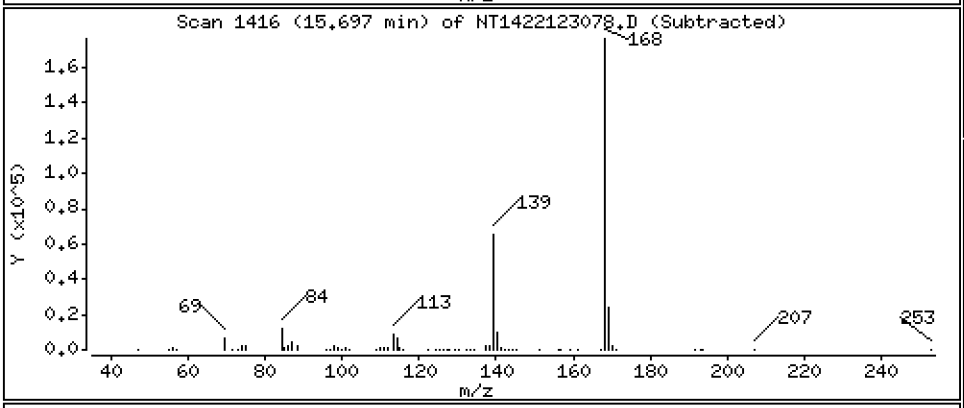
Column phase: ZB-5msi

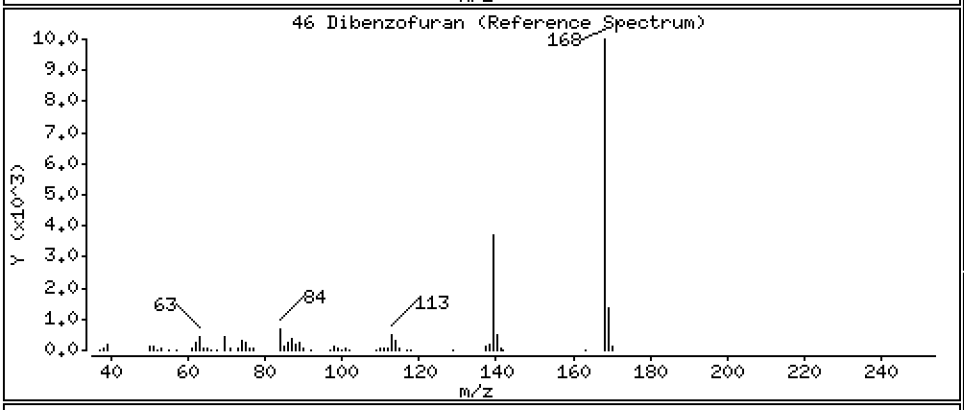
Column diameter: 0.25

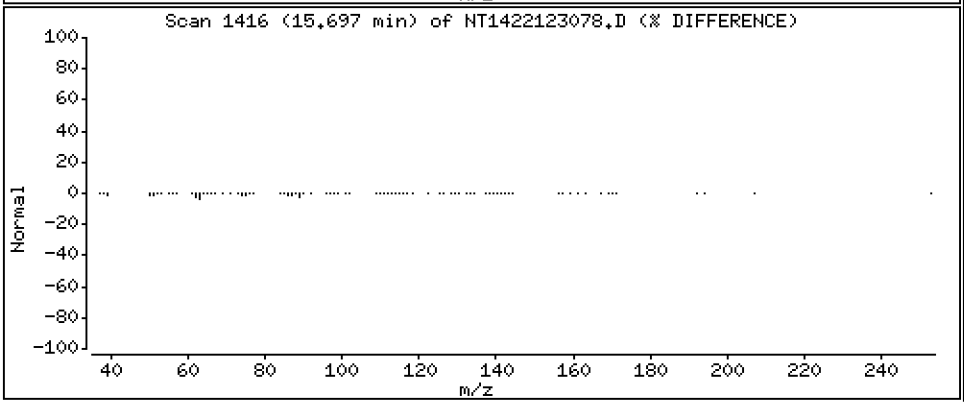
46 Dibenzofuran

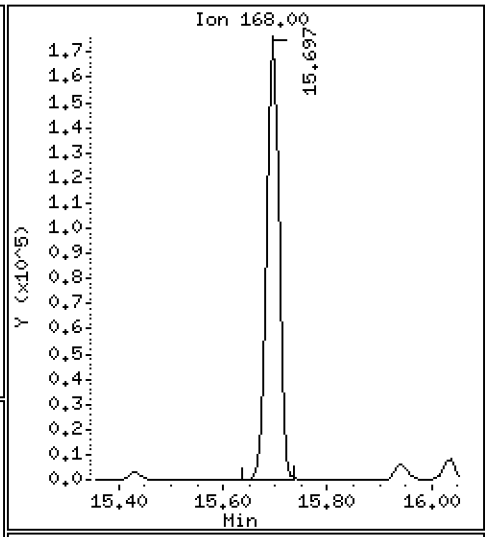
Concentration: 4.248 ug/mL

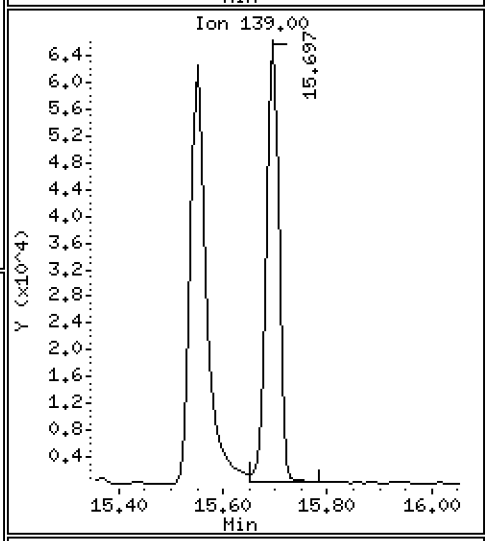


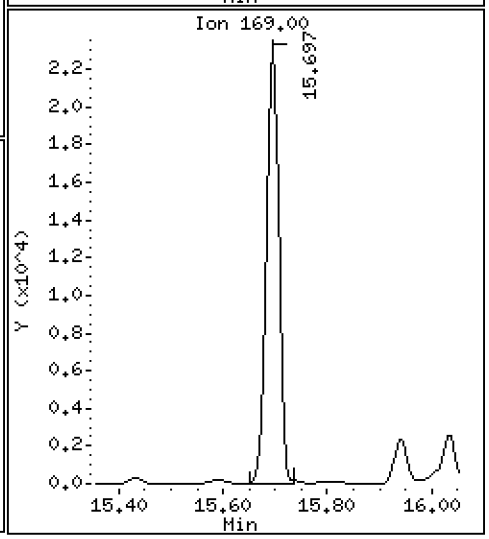












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123078.D

Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

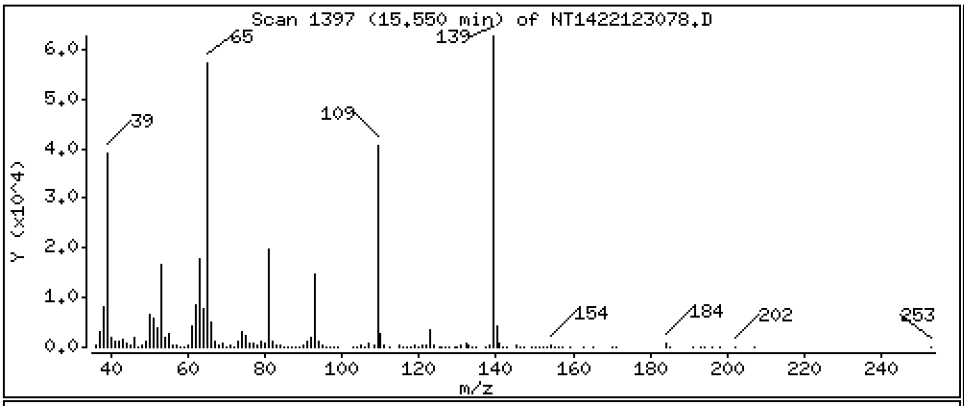
Operator: VTS

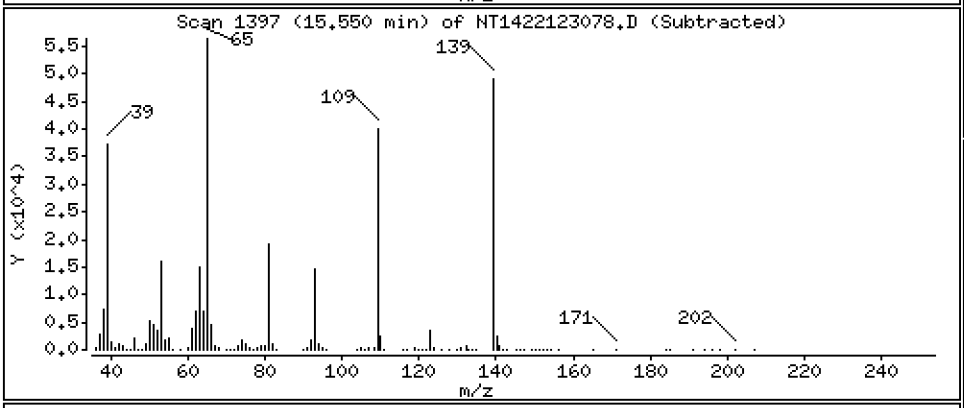
Column phase: ZB-5msi

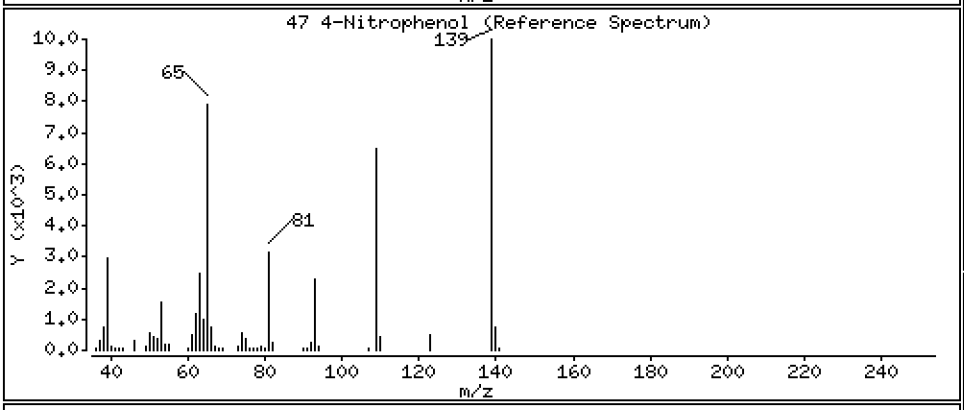
Column diameter: 0.25

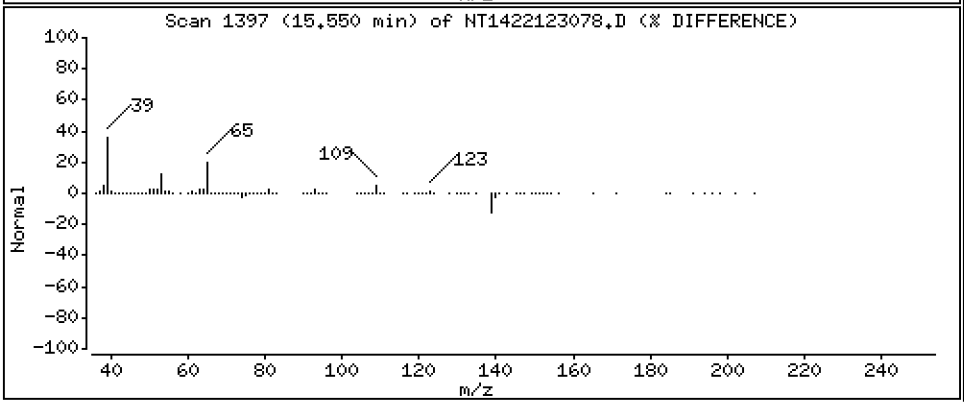
47 4-Nitrophenol

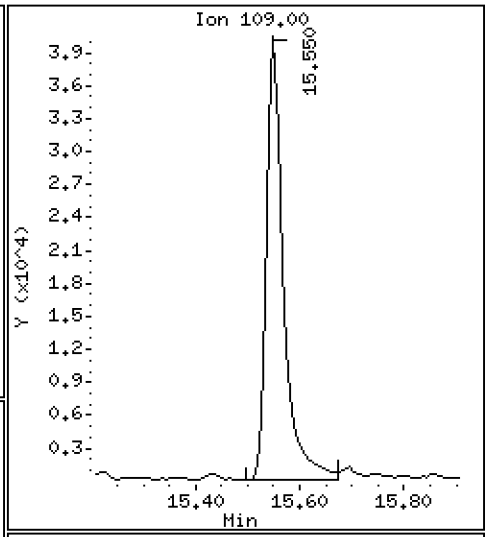
Concentration: 14.41 ug/mL

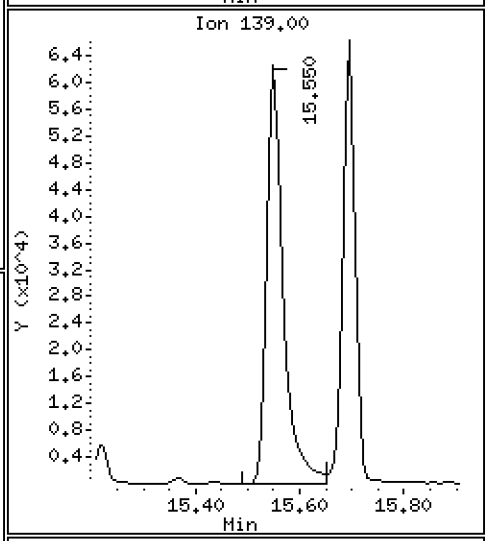


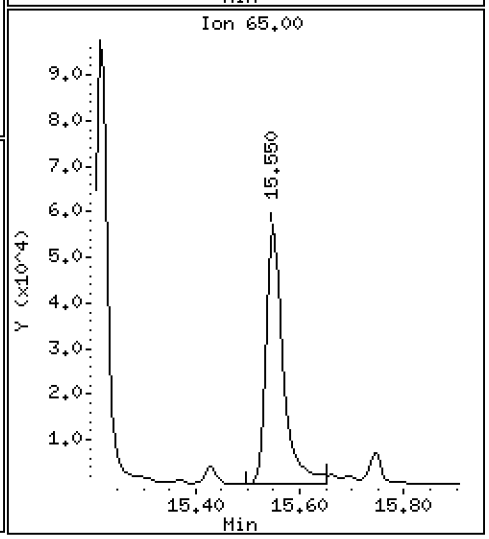












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

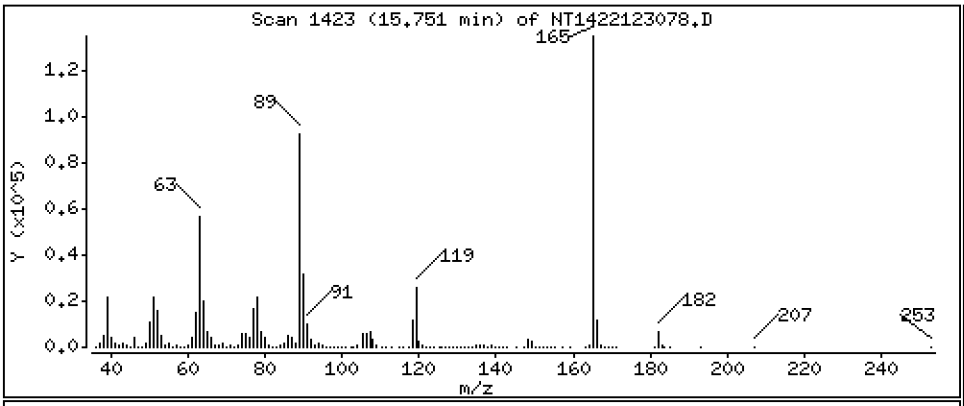
Operator: VTS

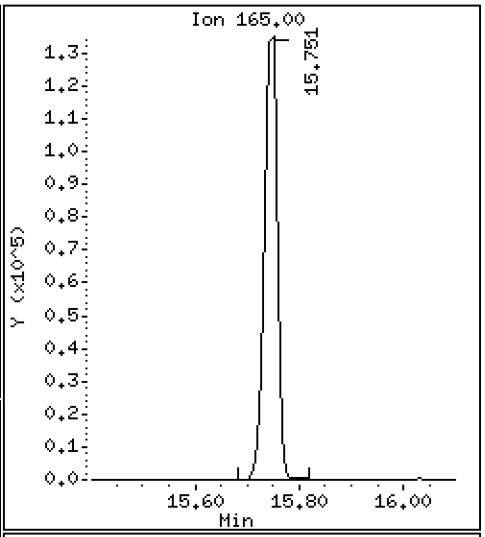
Column phase: ZB-5msi

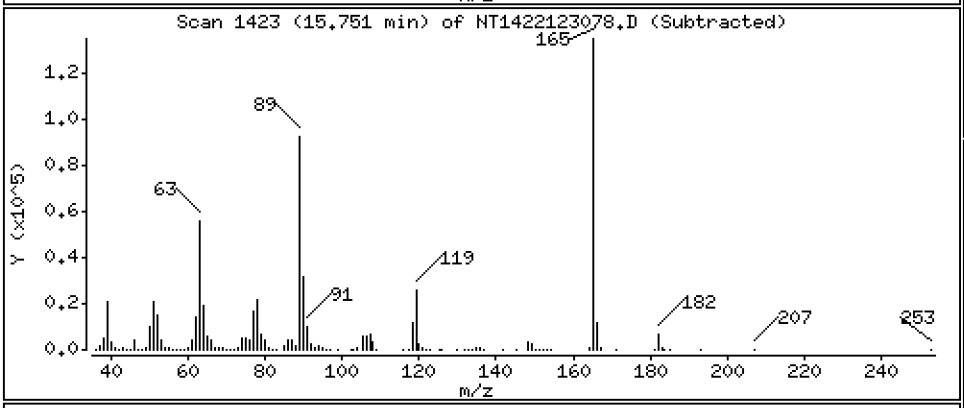
Column diameter: 0.25

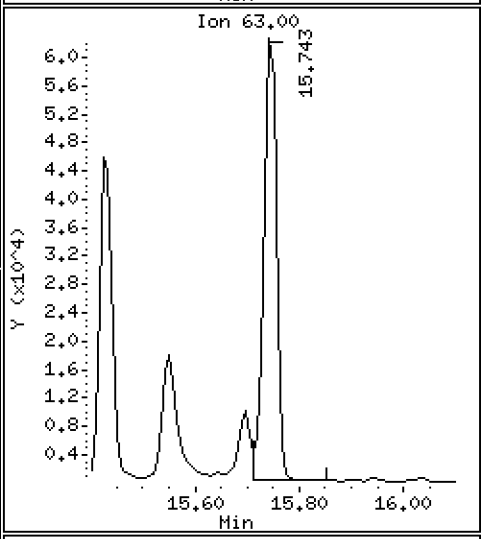
48 2,4-Dinitrotoluene

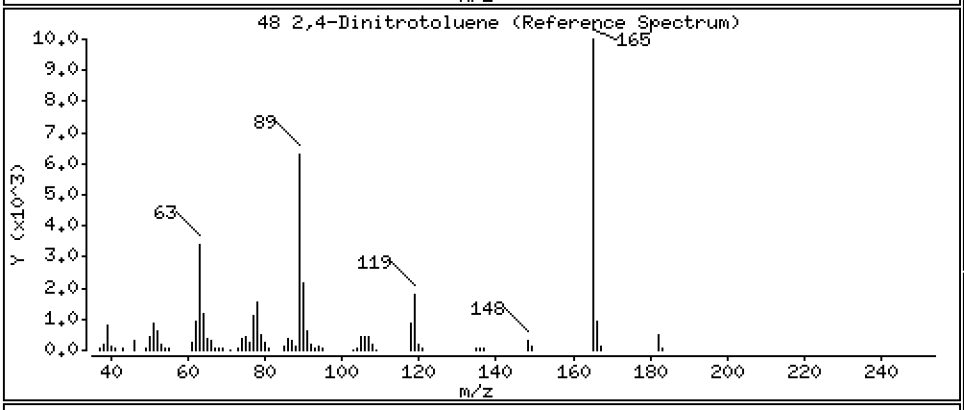
Concentration: 16.02 ug/mL

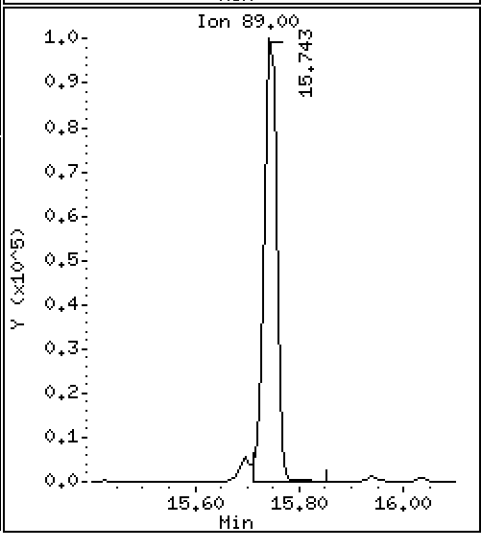


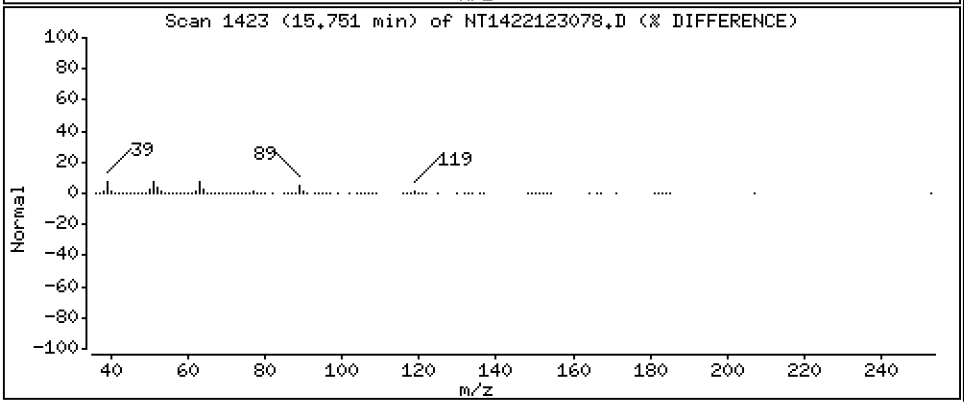












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

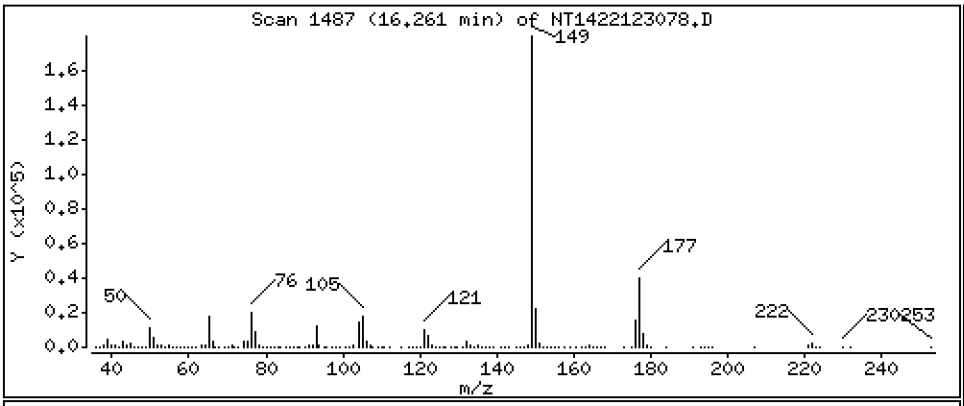
Operator: VTS

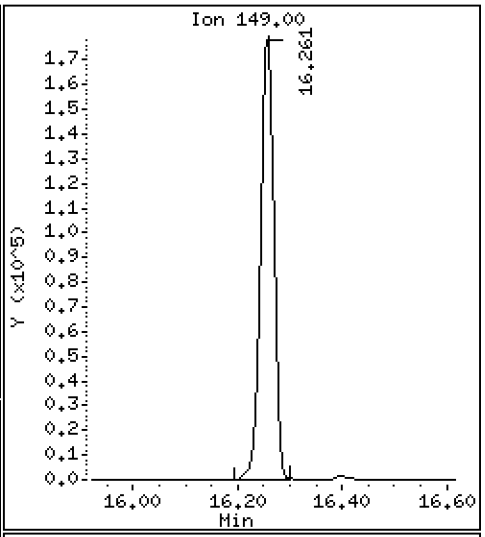
Column phase: ZB-5msi

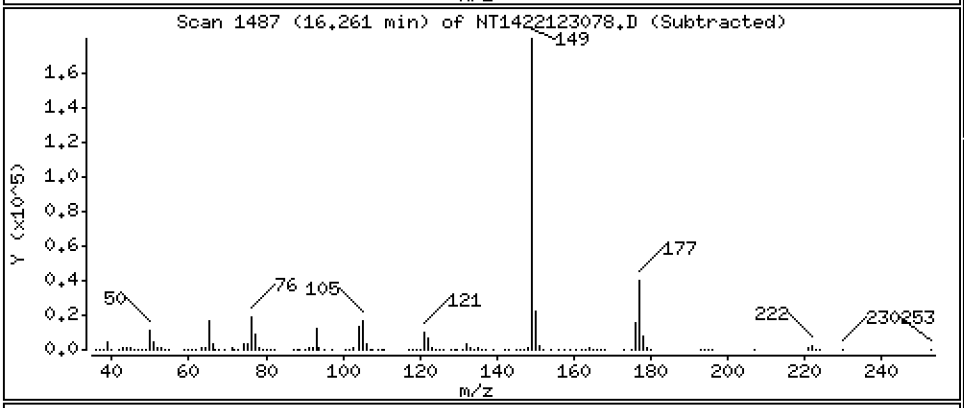
Column diameter: 0.25

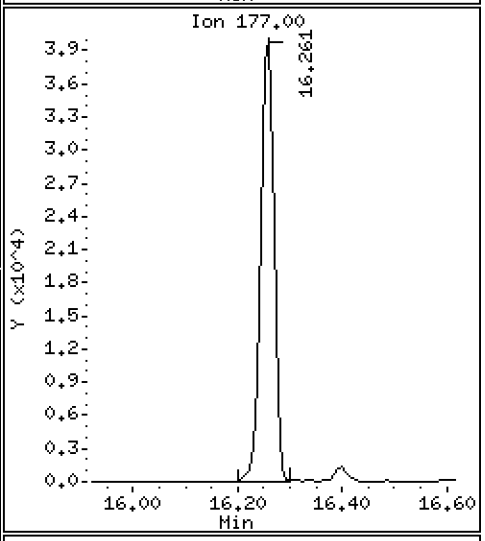
50 Diethylphthalate

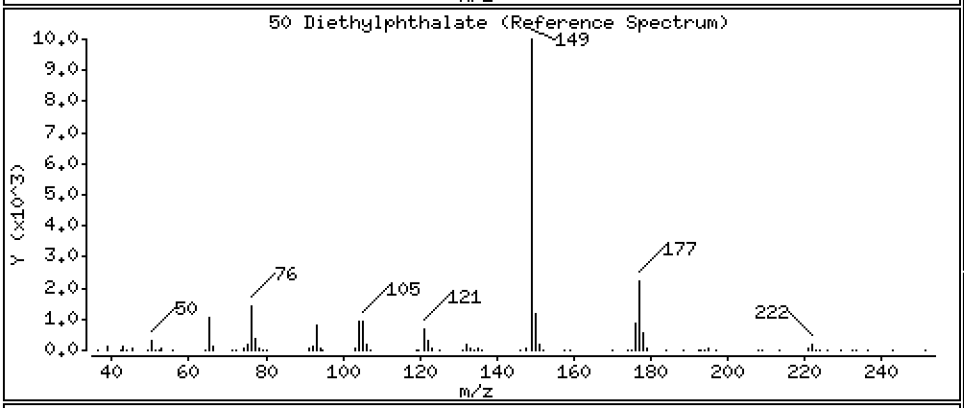
Concentration: 5.827 ug/mL

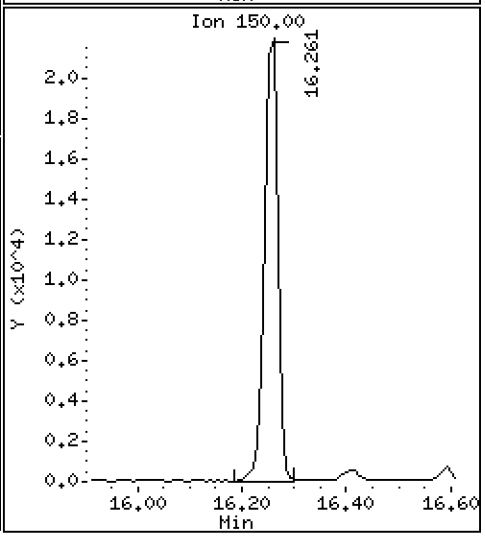


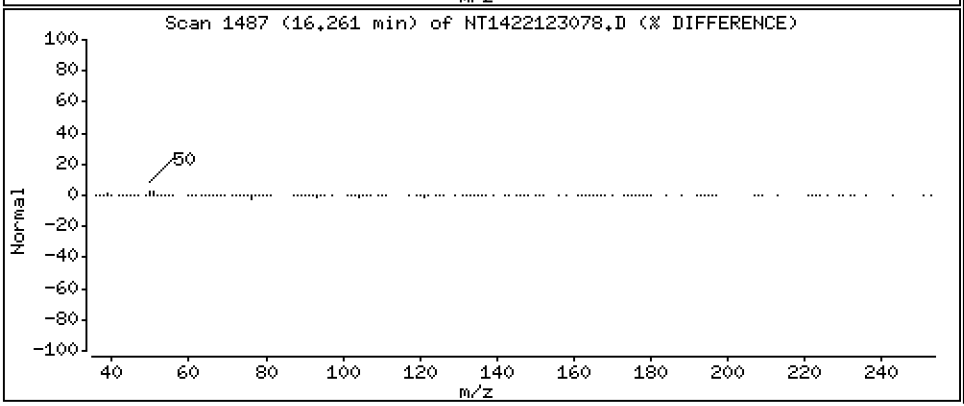












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

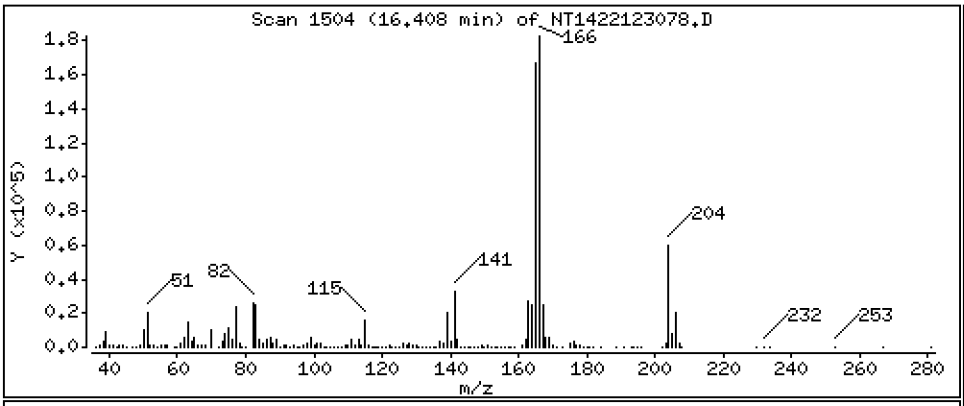
Operator: VTS

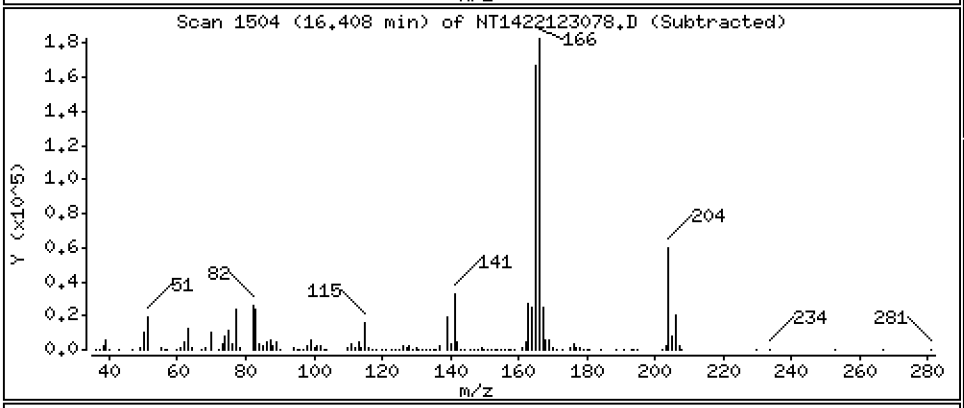
Column phase: ZB-5msi

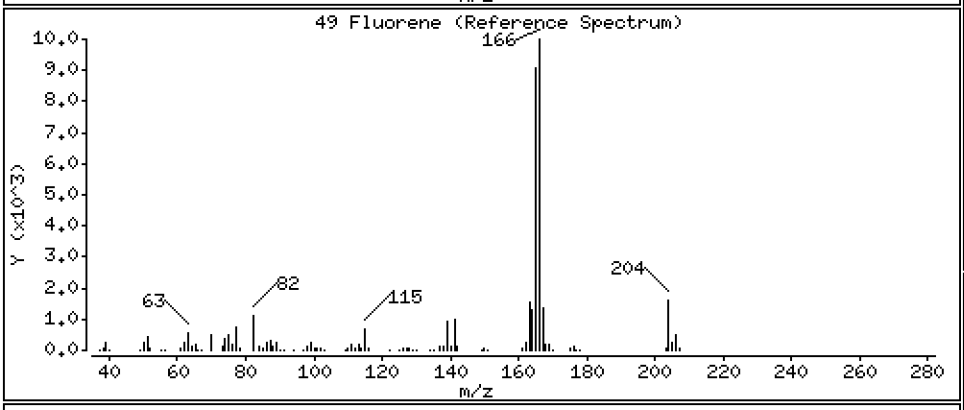
Column diameter: 0.25

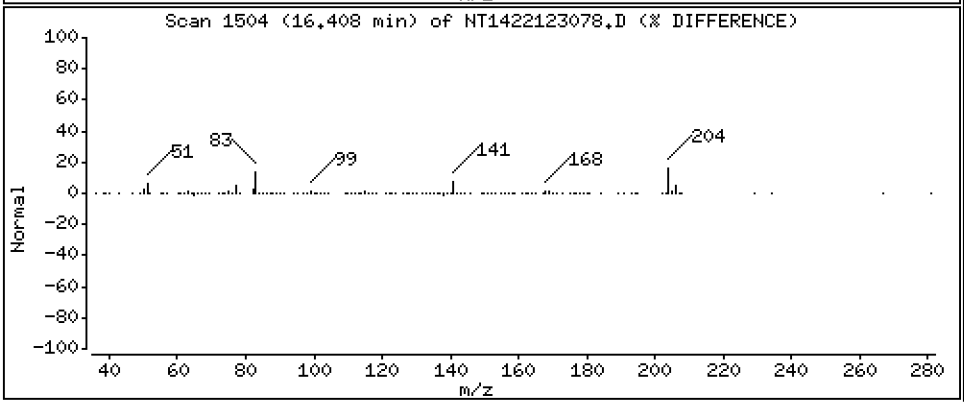
49 Fluorene

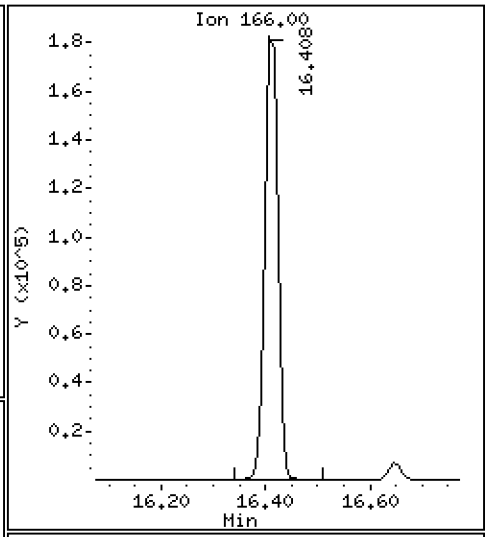
Concentration: 4.834 ug/mL

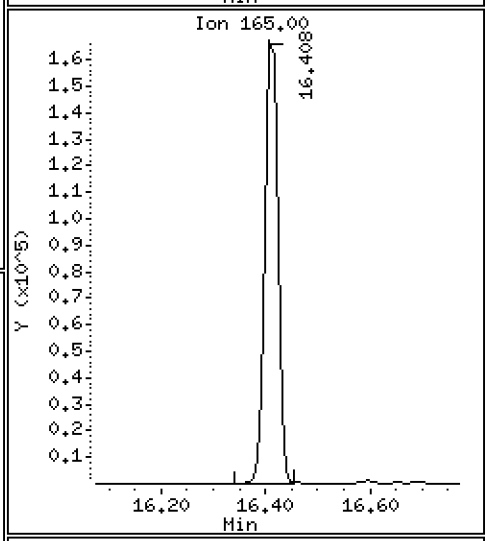


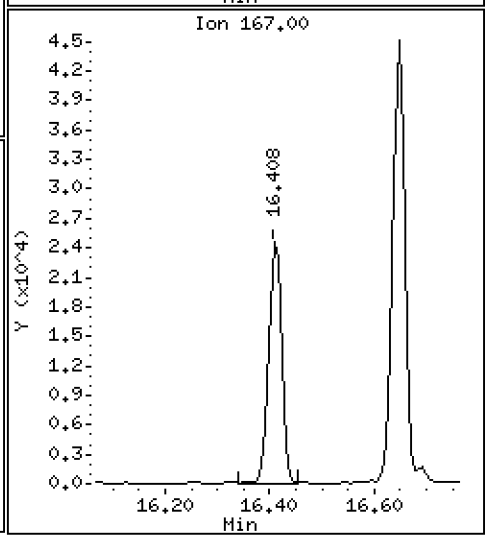












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

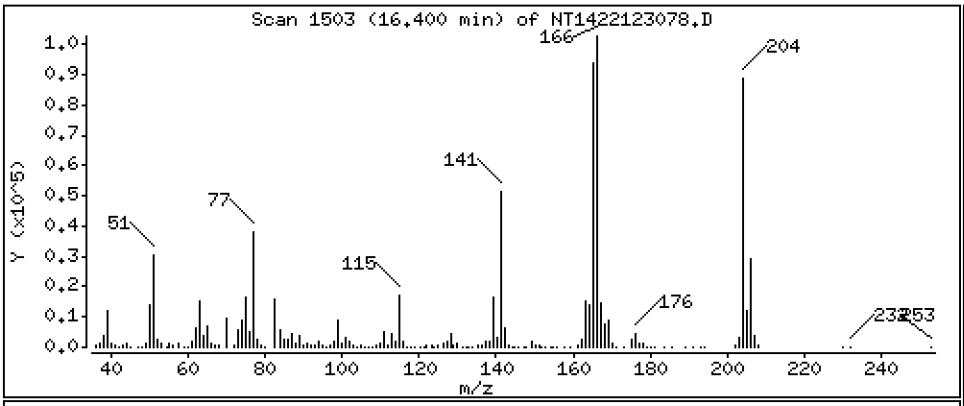
Operator: VTS

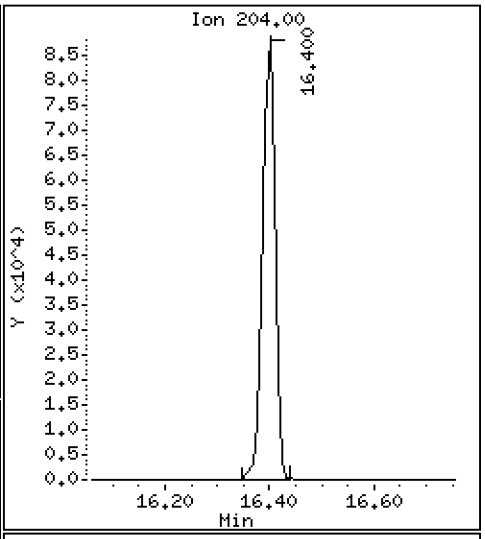
Column phase: ZB-5msi

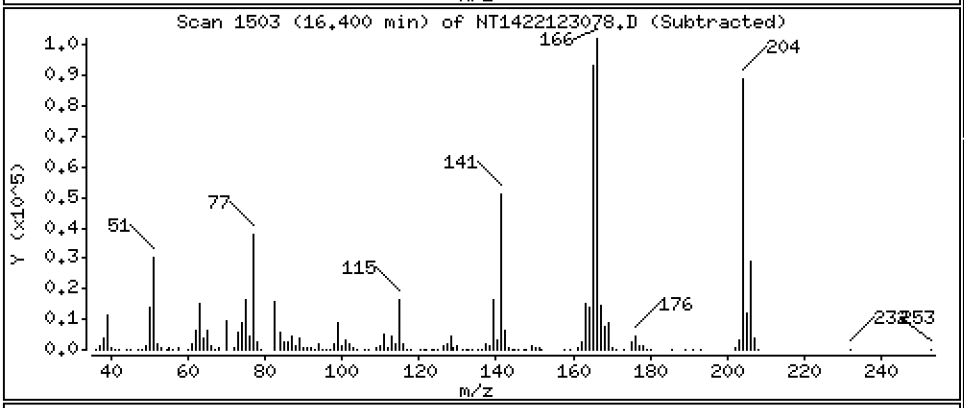
Column diameter: 0.25

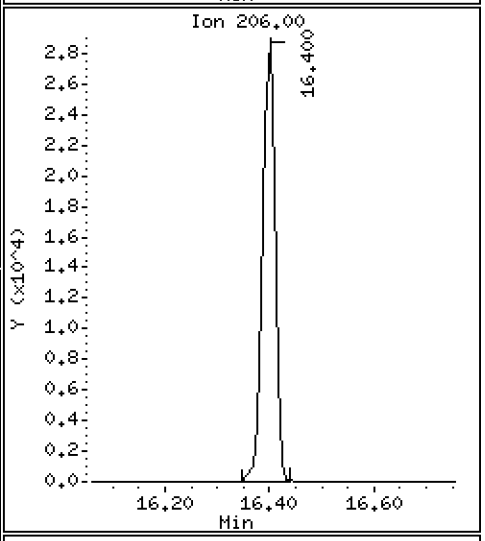
51 4-Chlorophenyl-phenylether

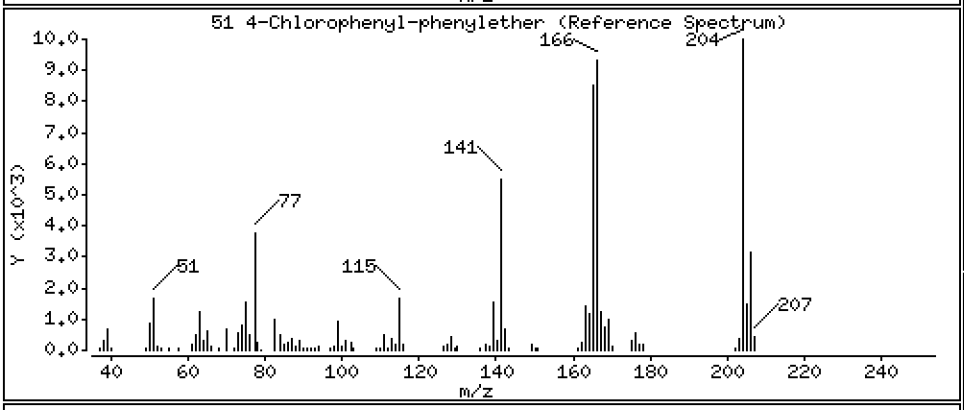
Concentration: 4.945 ug/mL

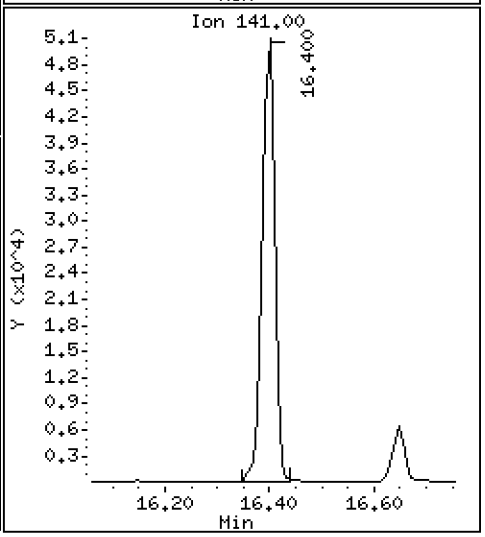


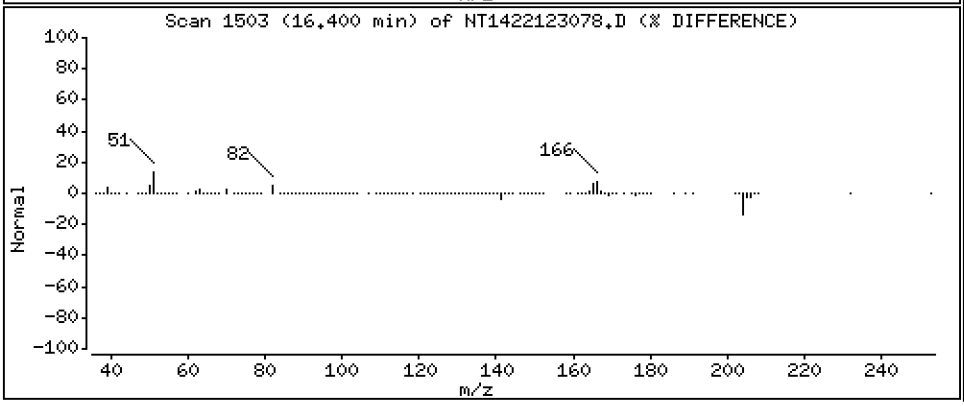












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

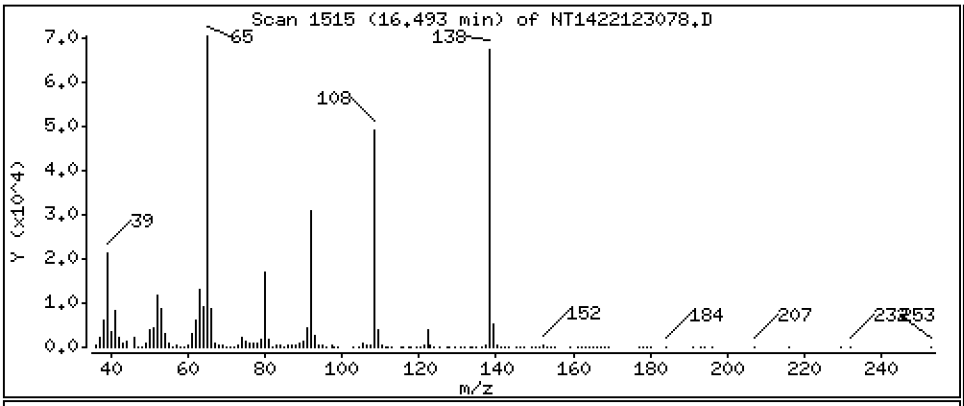
Operator: VTS

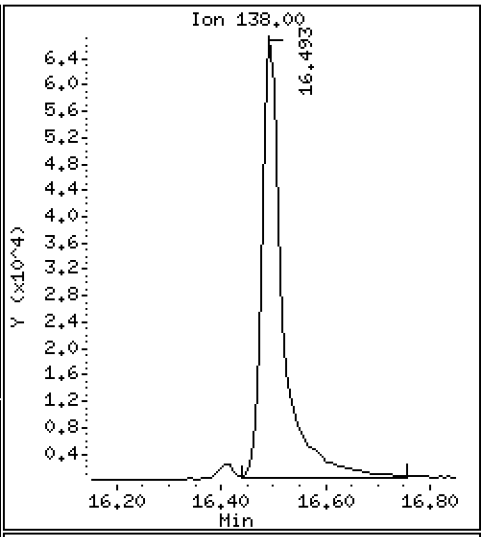
Column phase: ZB-5msi

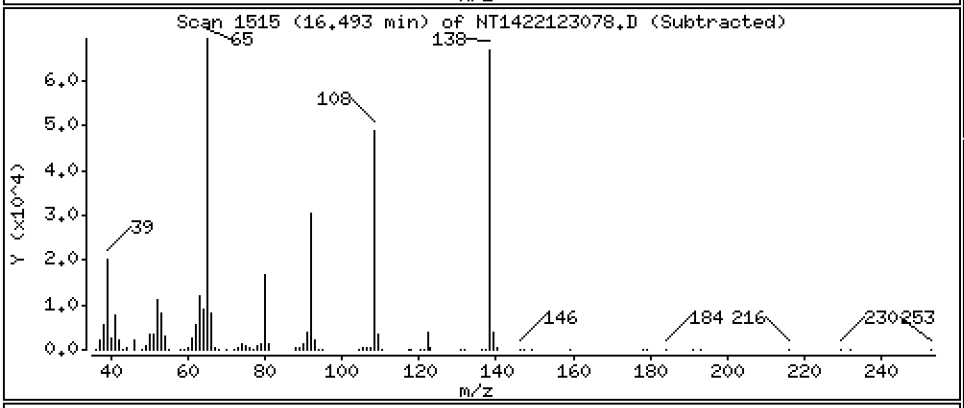
Column diameter: 0.25

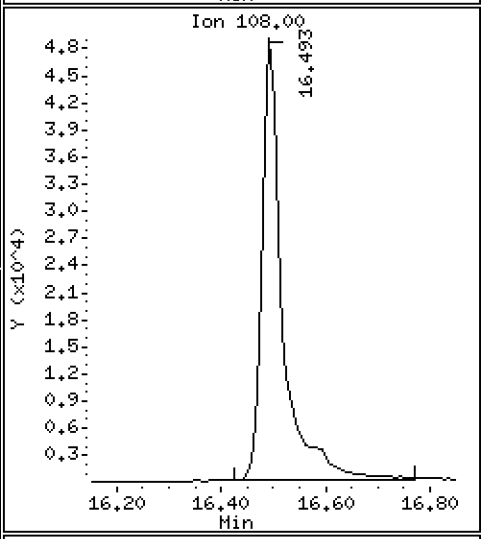
52 4-Nitroaniline

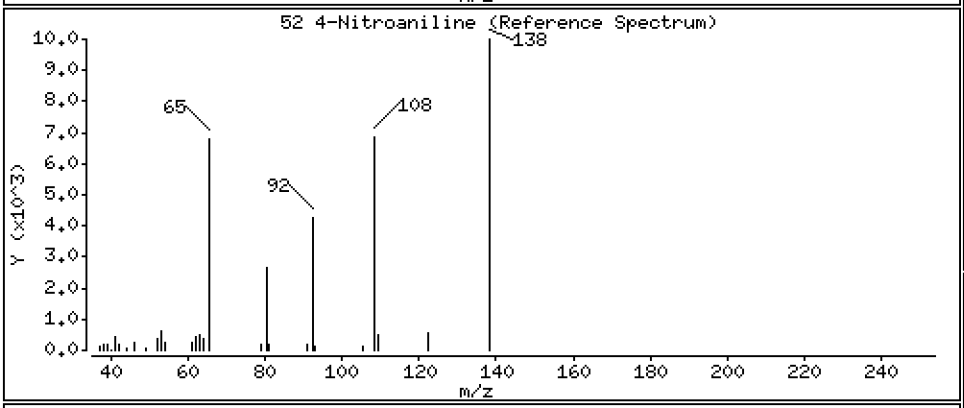
Concentration: 11.99 ug/mL

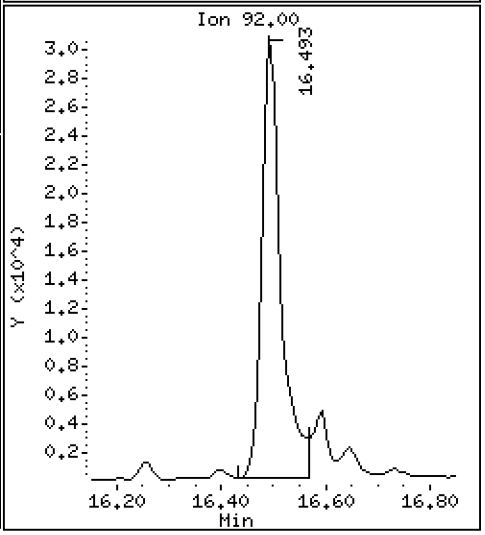


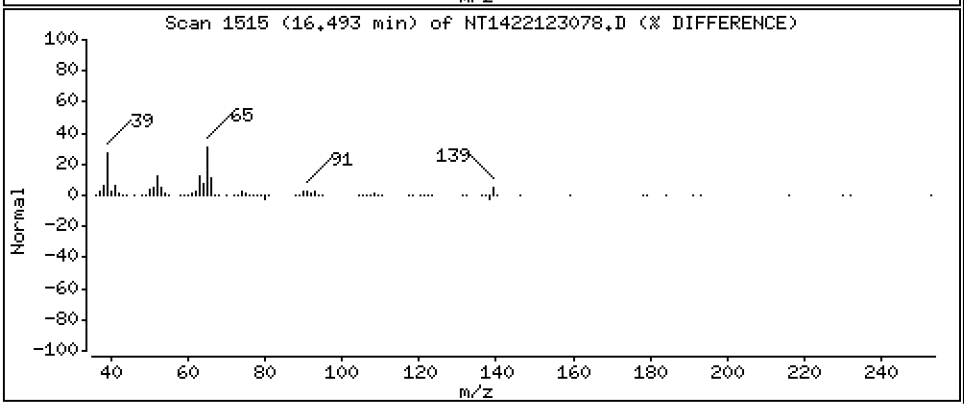












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

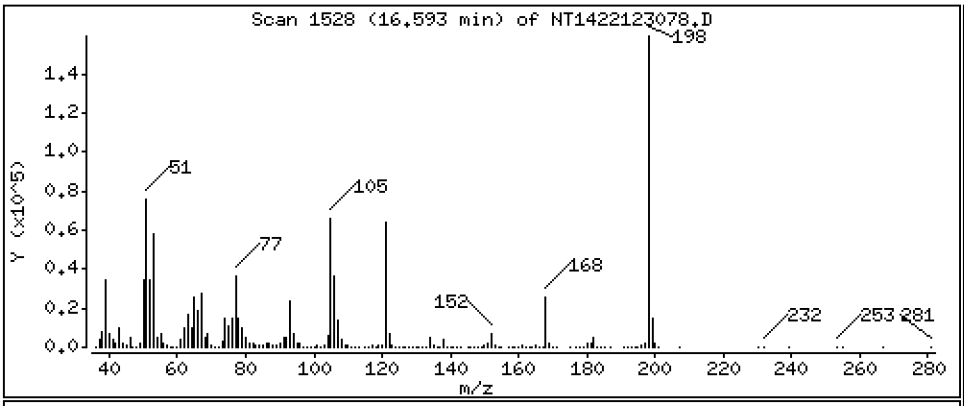
Operator: VTS

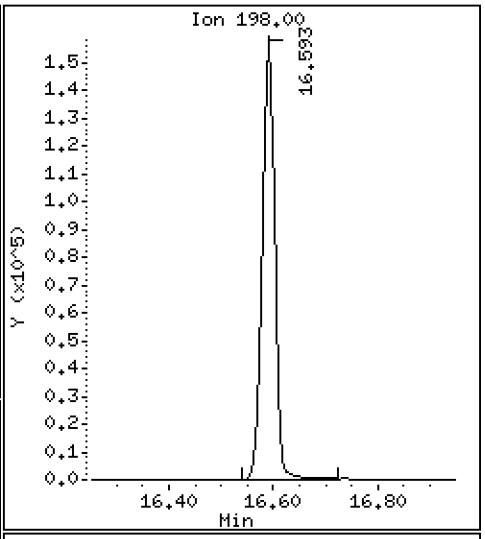
Column phase: ZB-5msi

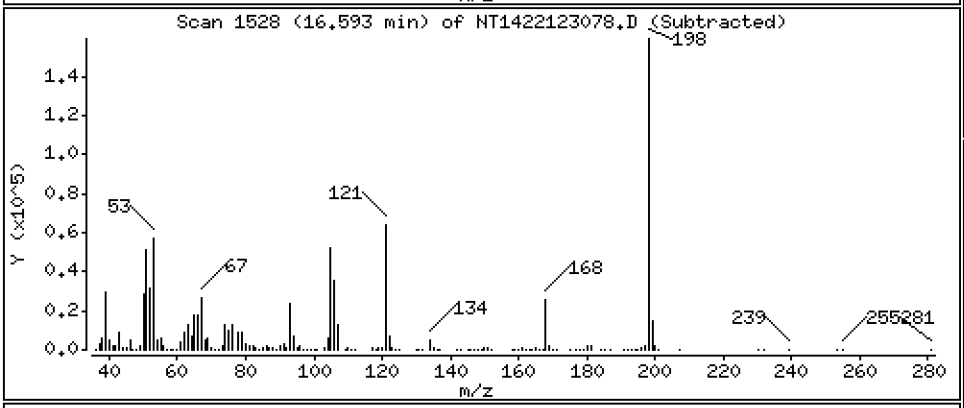
Column diameter: 0.25

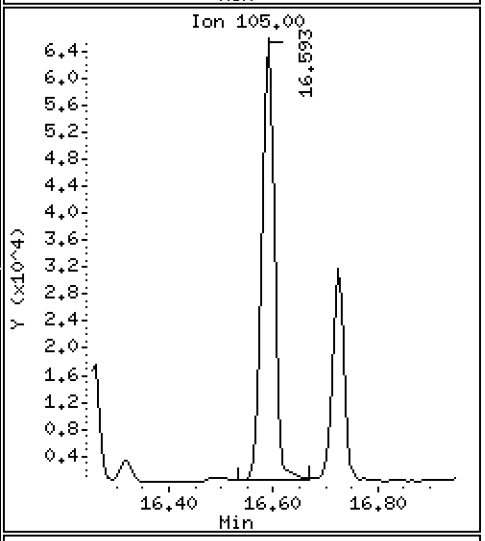
53 4,6-Dinitro-2-methylphenol

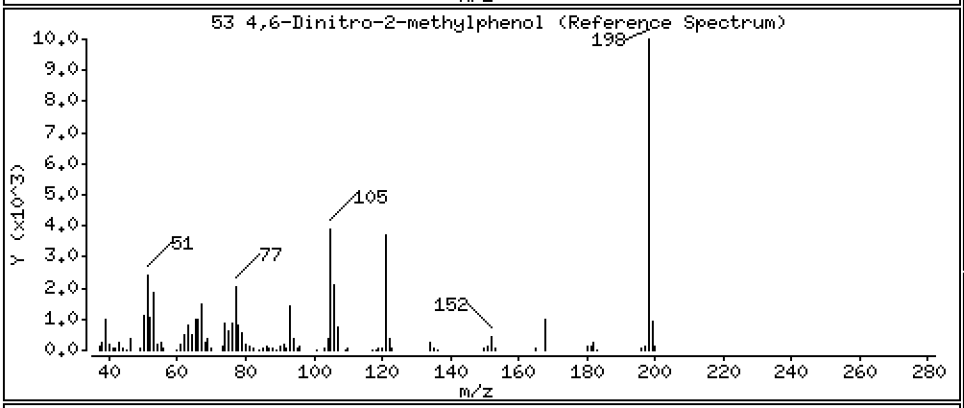
Concentration: 21.76 ug/mL

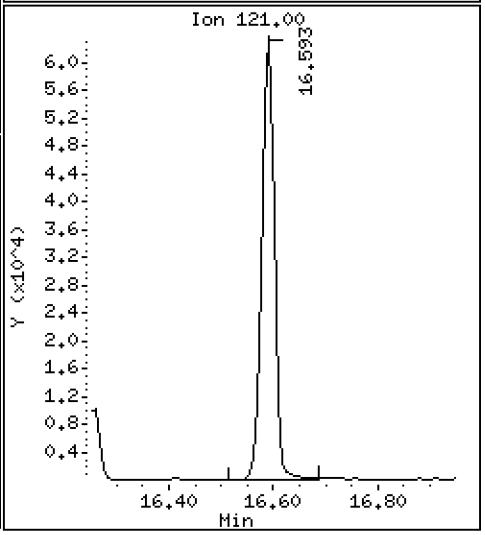


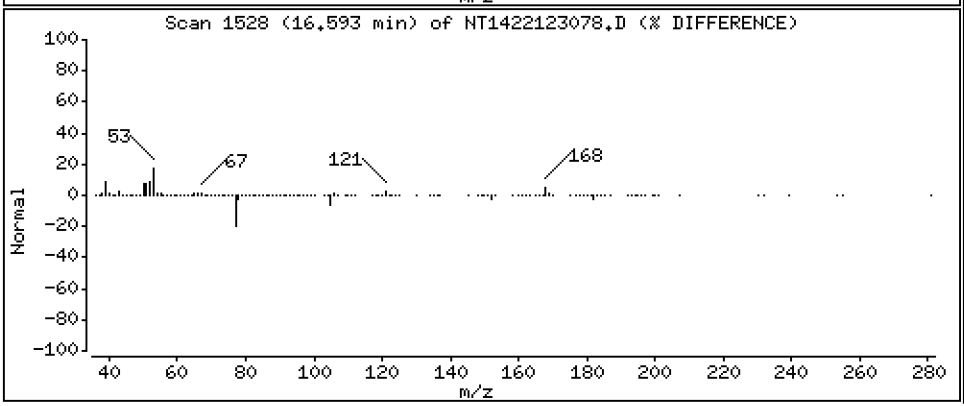












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123078.D

Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

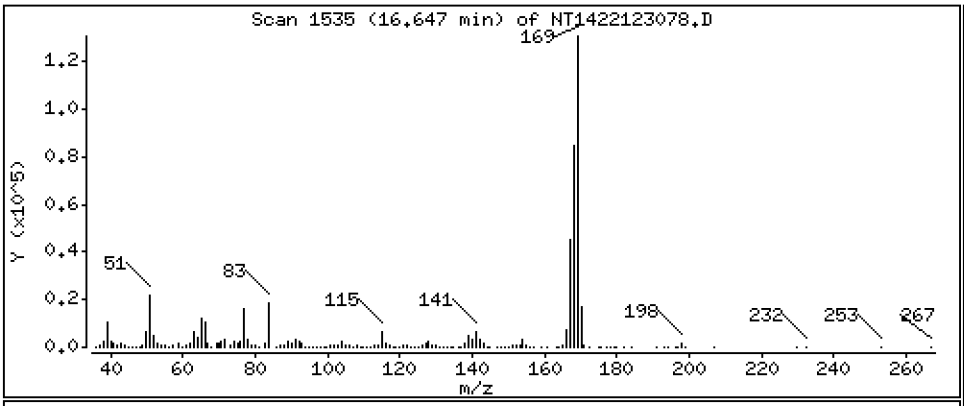
Operator: VTS

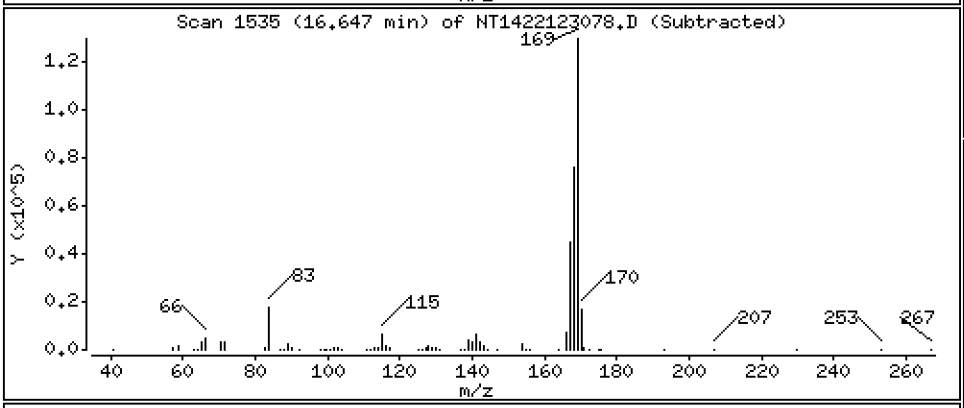
Column phase: ZB-5msi

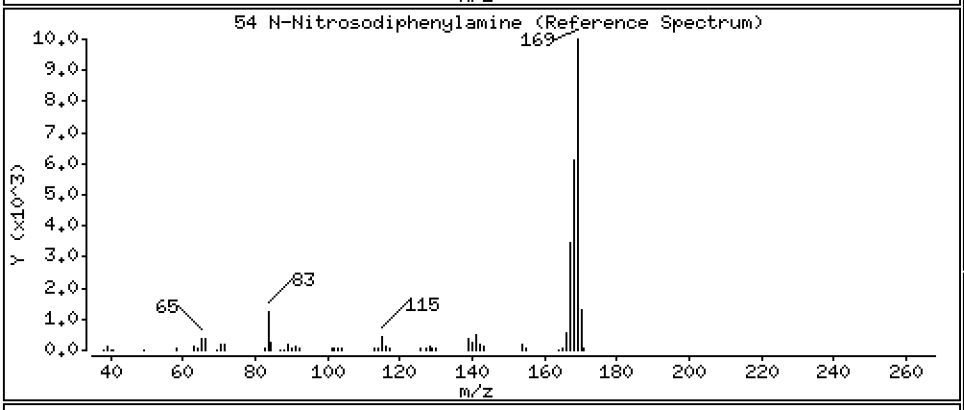
Column diameter: 0.25

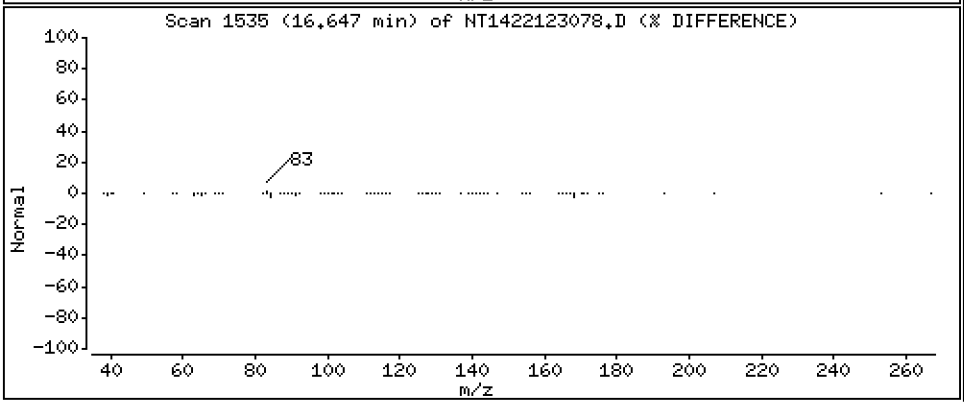
54 N-Nitrosodiphenylamine

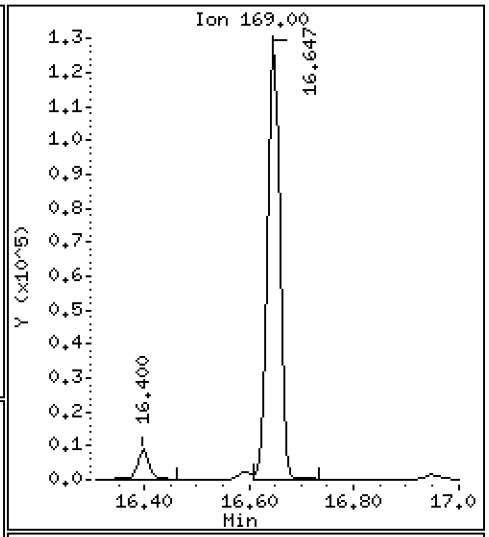
Concentration: 4.471 ug/mL

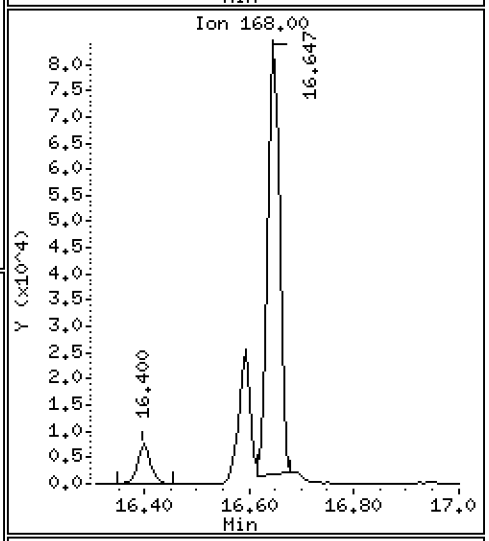


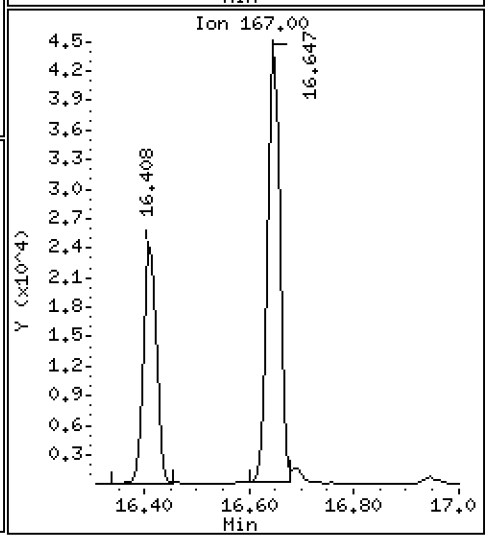












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

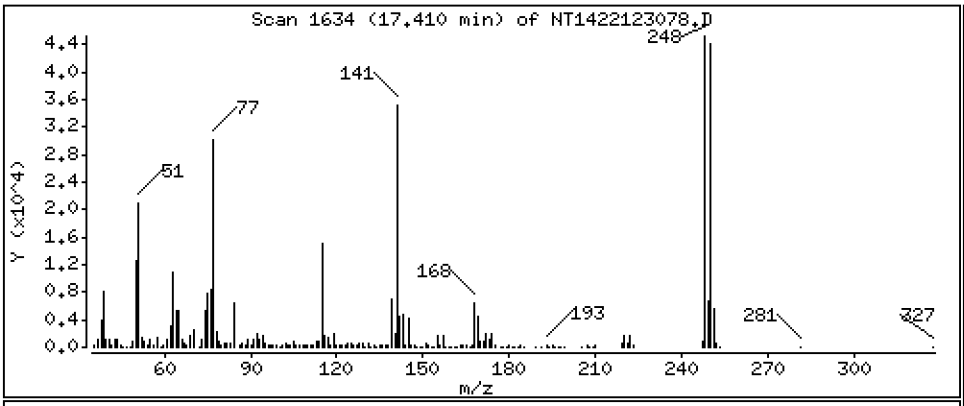
Operator: VTS

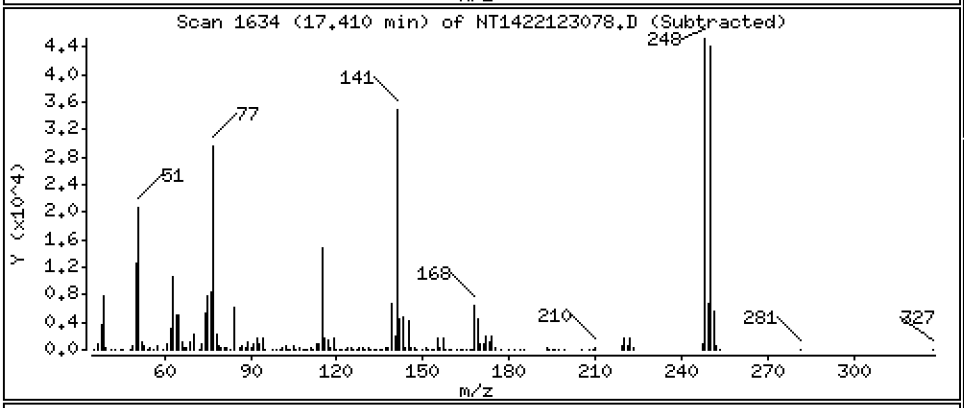
Column phase: ZB-5msi

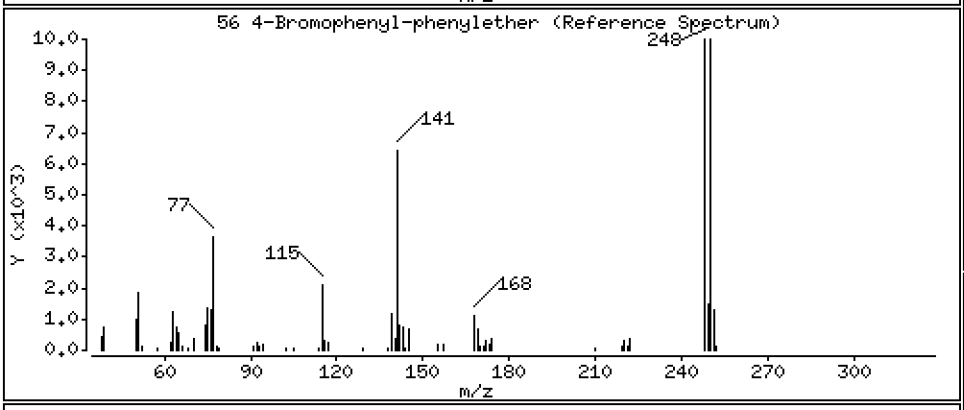
Column diameter: 0.25

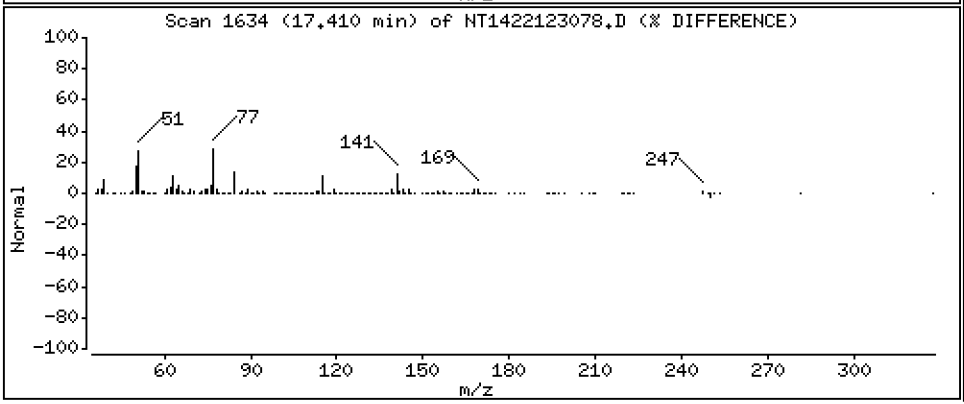
56 4-Bromophenyl-phenylether

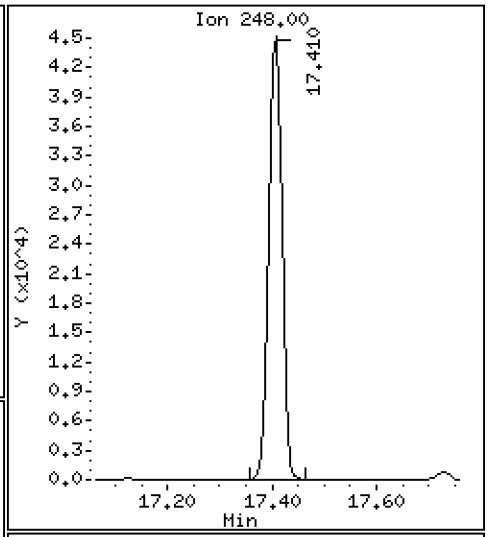
Concentration: 4.564 ug/mL

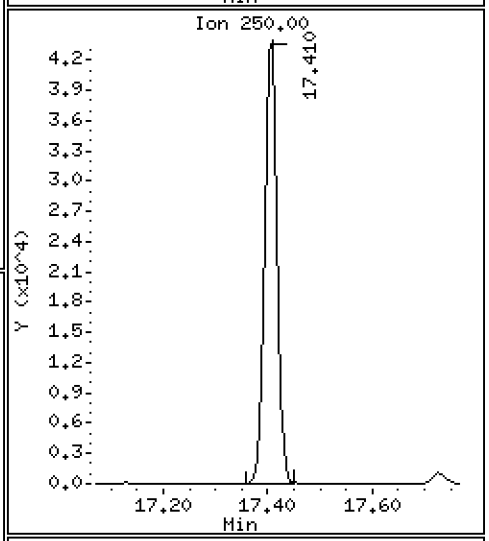


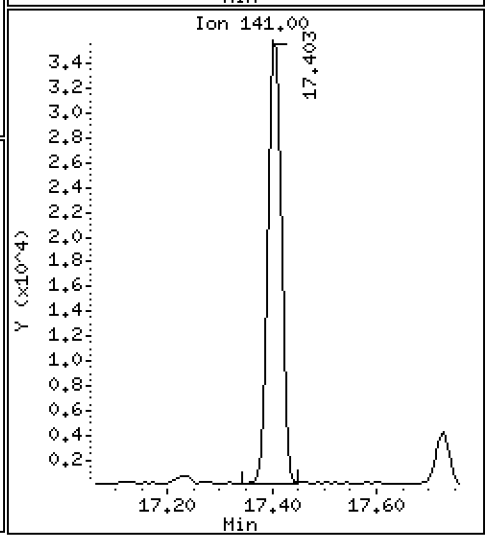












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

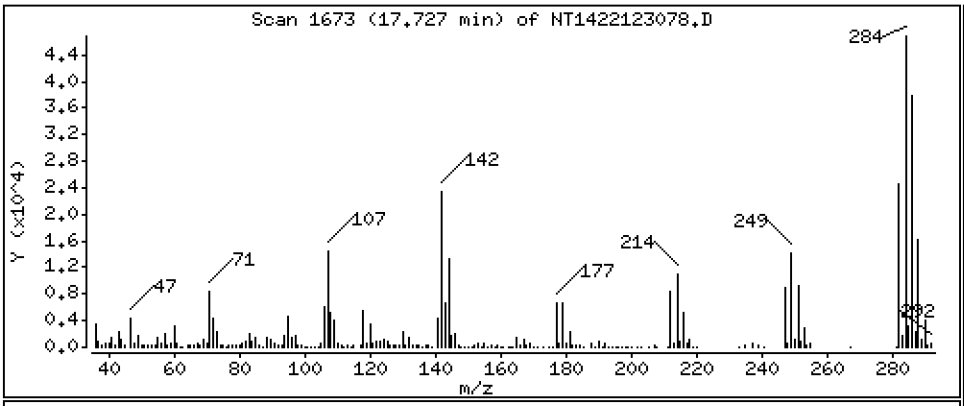
Operator: VTS

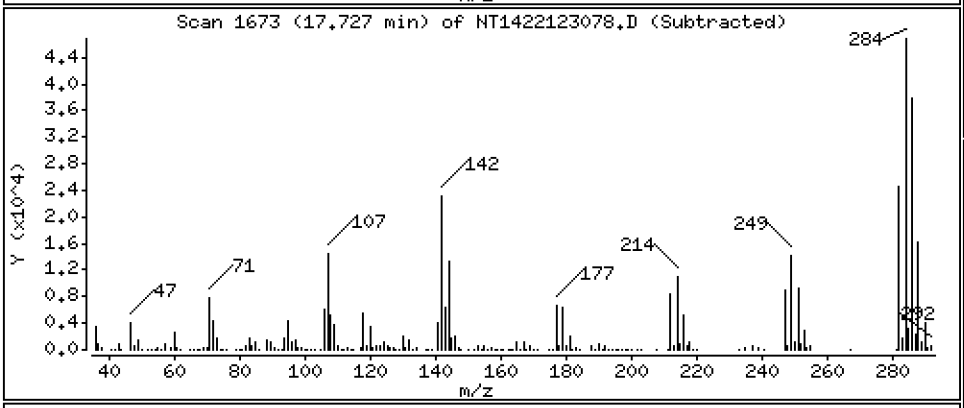
Column phase: ZB-5msi

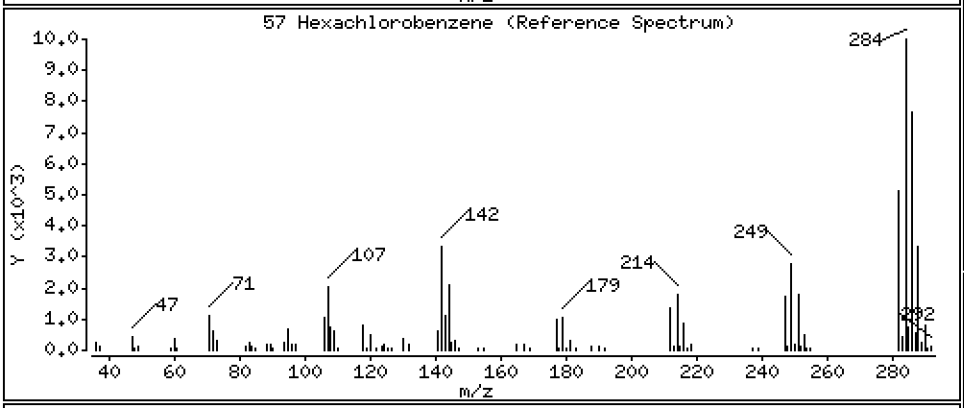
Column diameter: 0.25

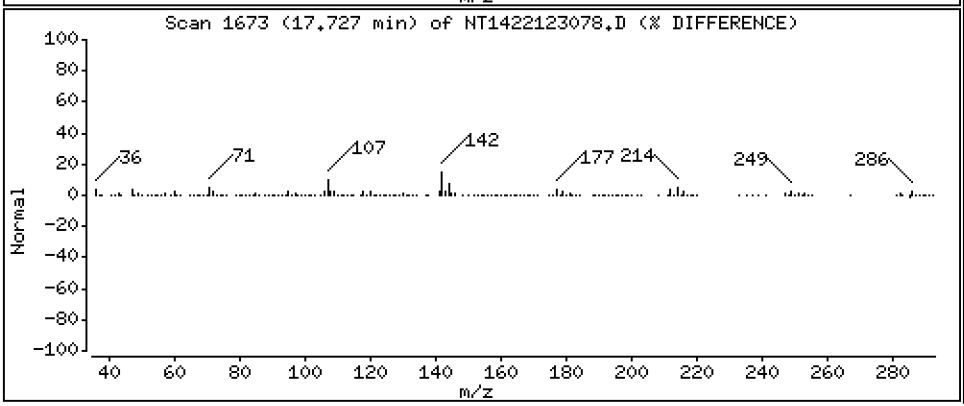
57 Hexachlorobenzene

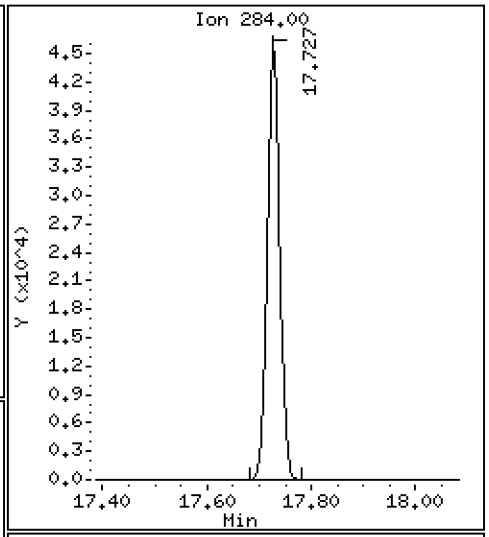
Concentration: 4.170 ug/mL

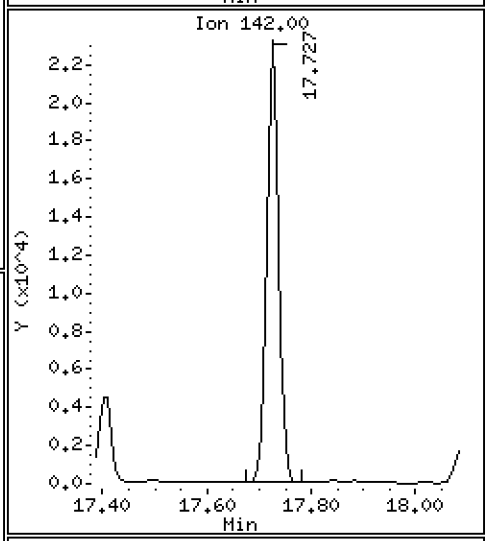


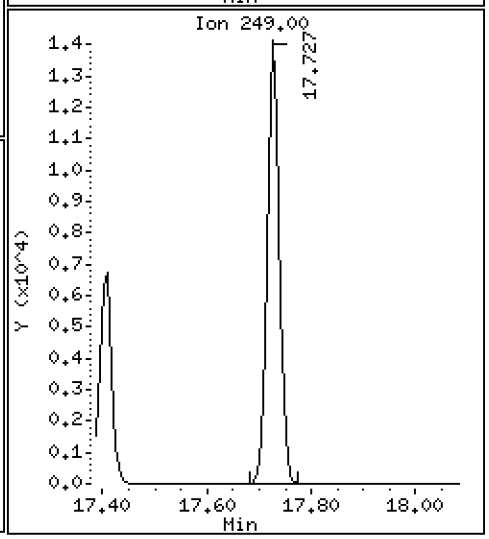












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

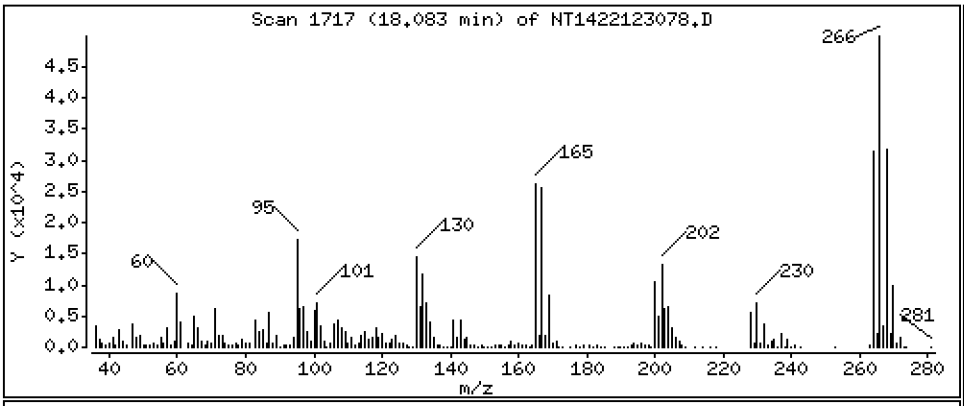
Operator: VTS

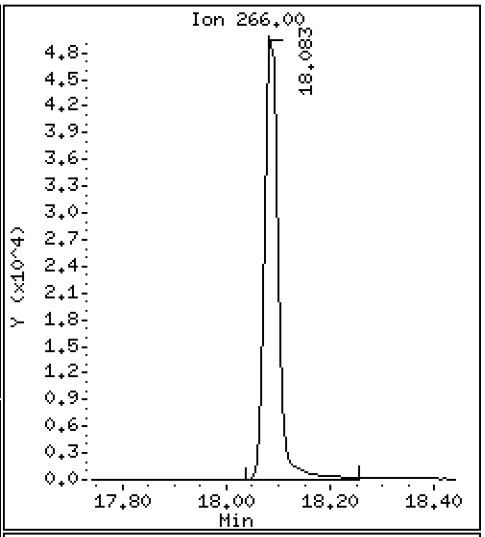
Column phase: ZB-5msi

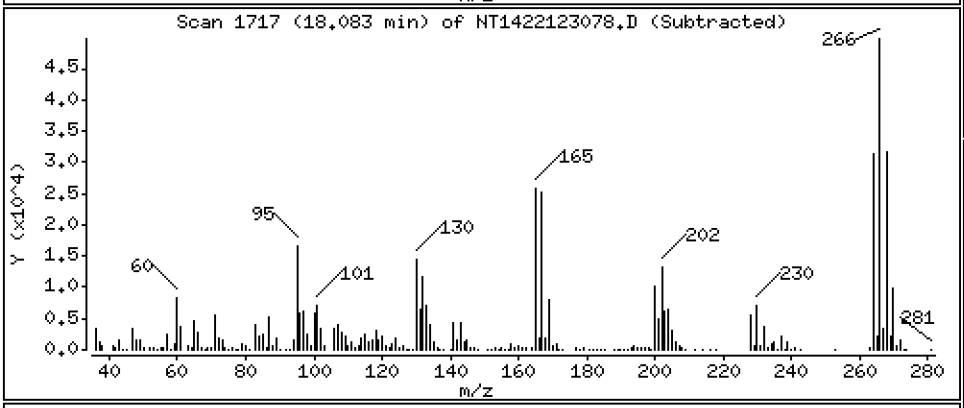
Column diameter: 0.25

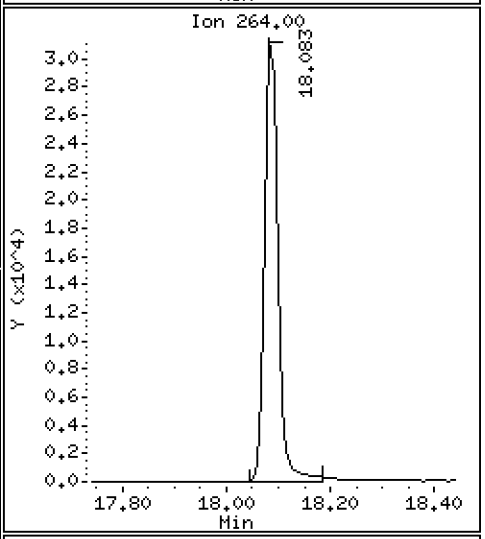
58 Pentachlorophenol

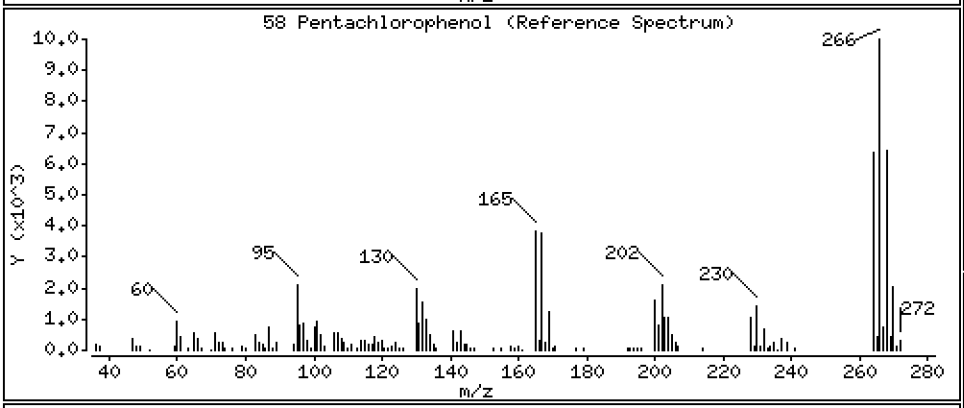
Concentration: 10.30 ug/mL

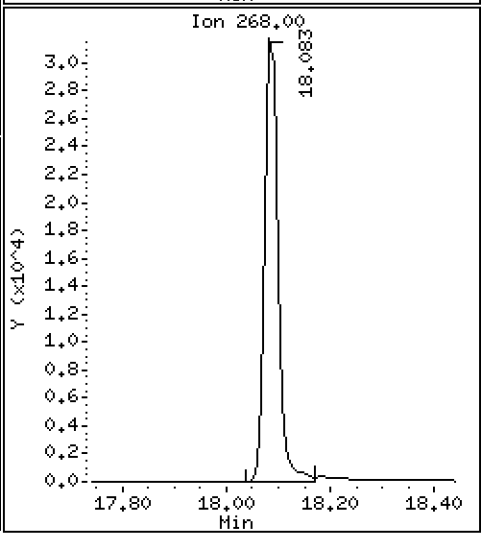


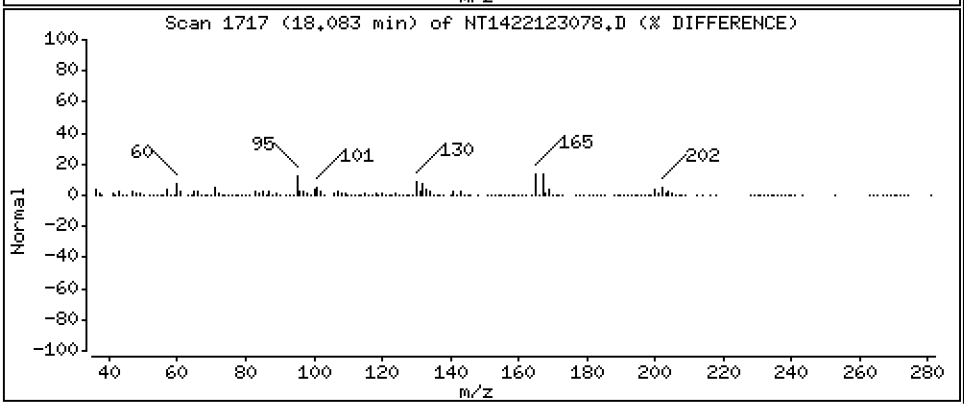












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

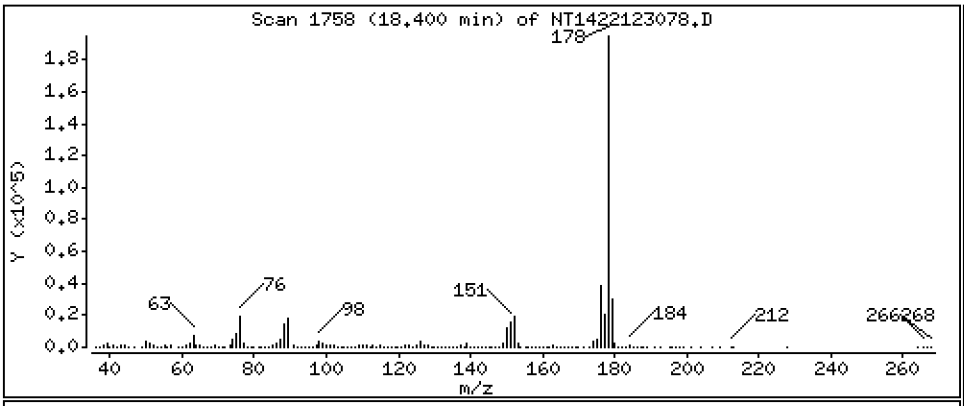
Operator: VTS

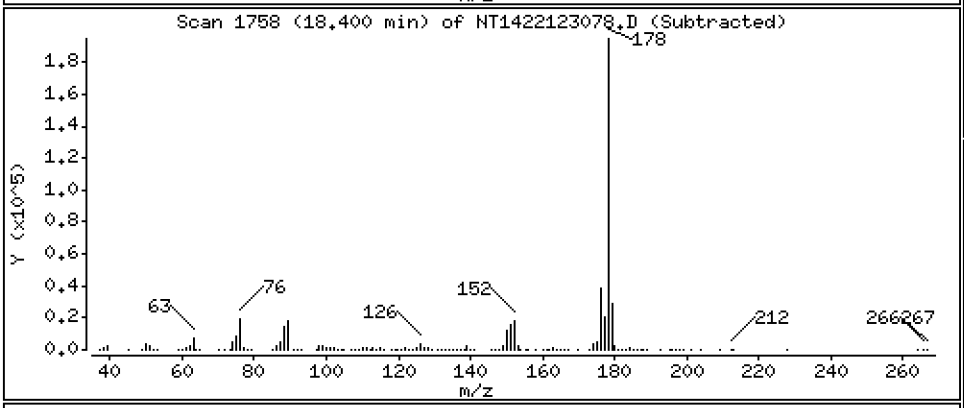
Column phase: ZB-5msi

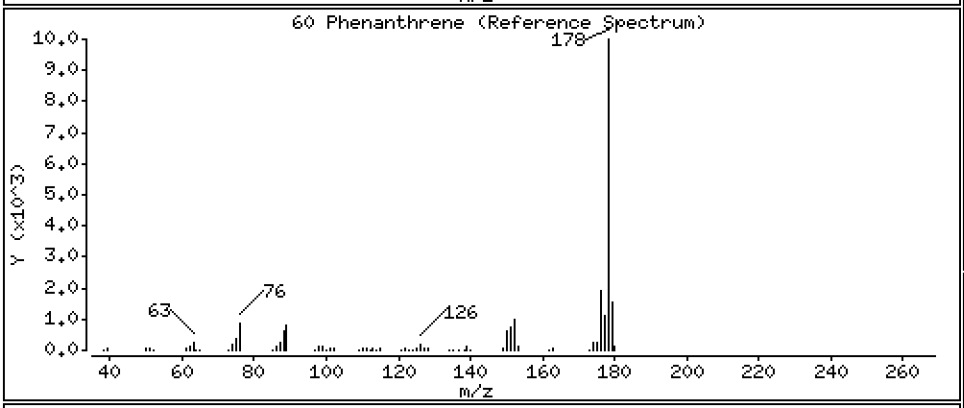
Column diameter: 0.25

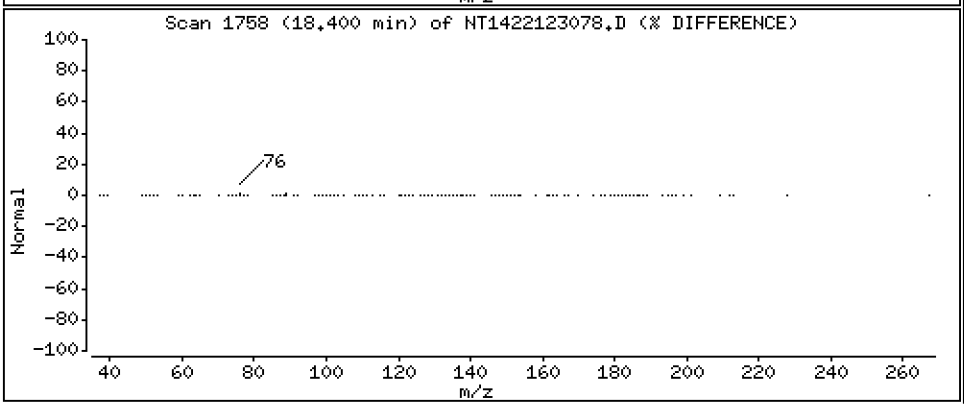
60 Phenanthrene

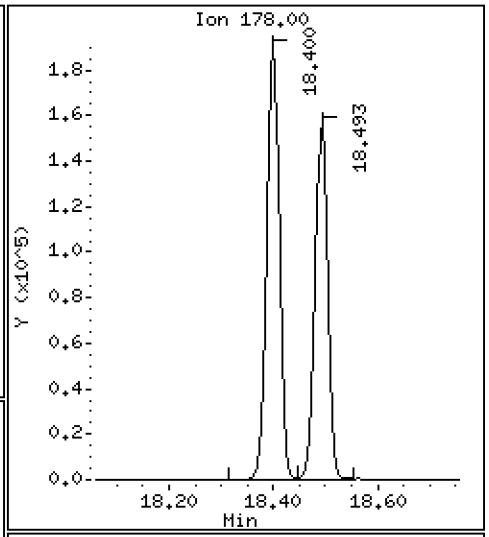
Concentration: 4.520 ug/mL

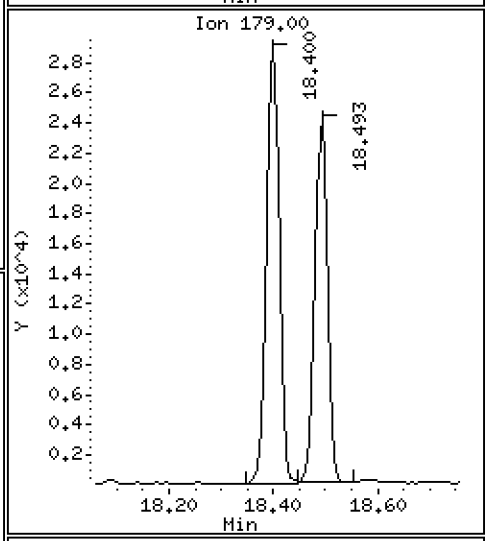


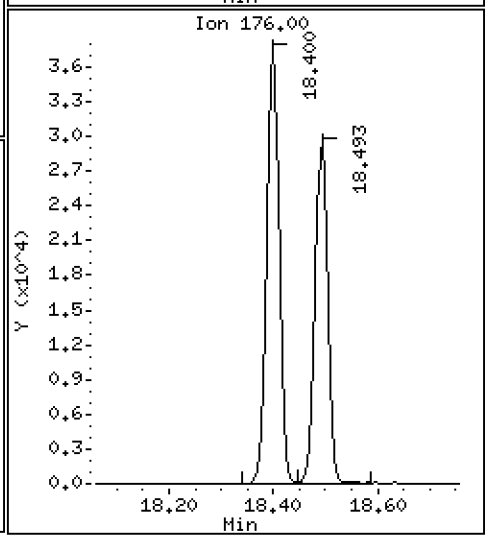












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

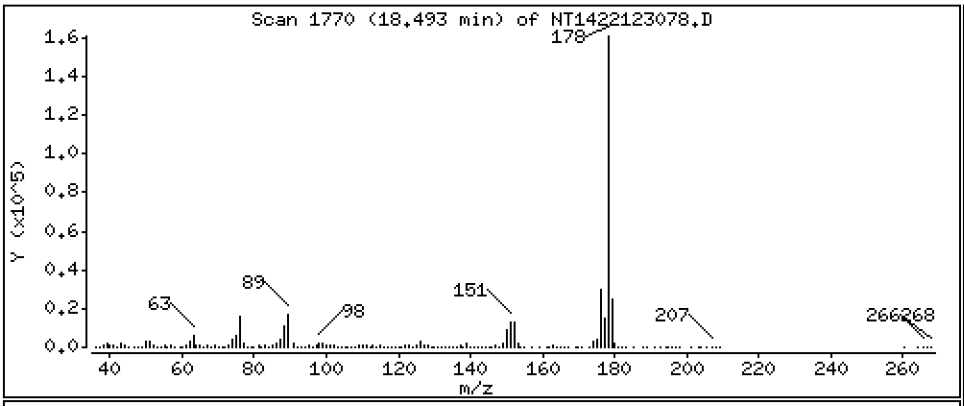
Operator: VTS

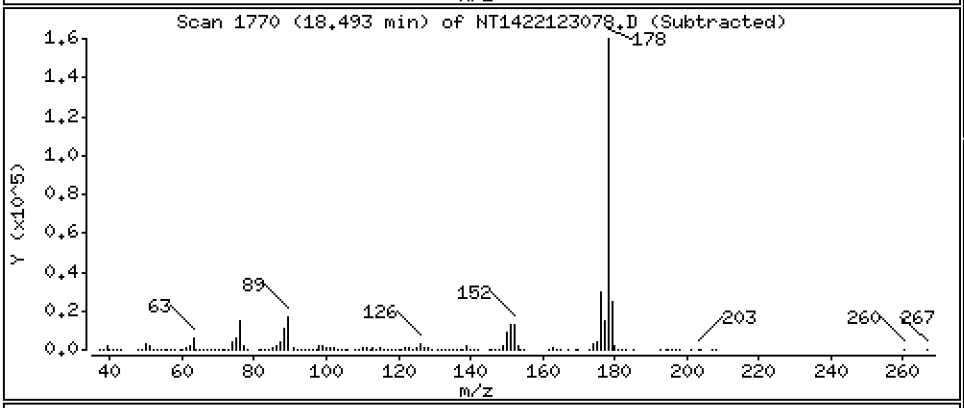
Column phase: ZB-5msi

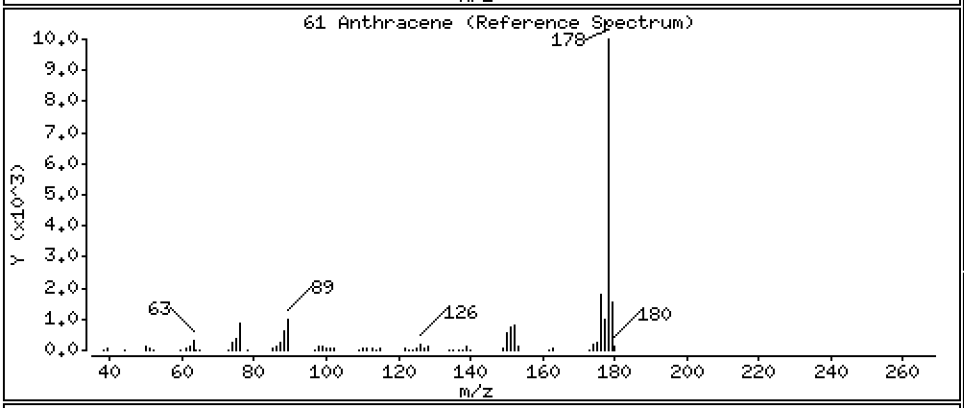
Column diameter: 0.25

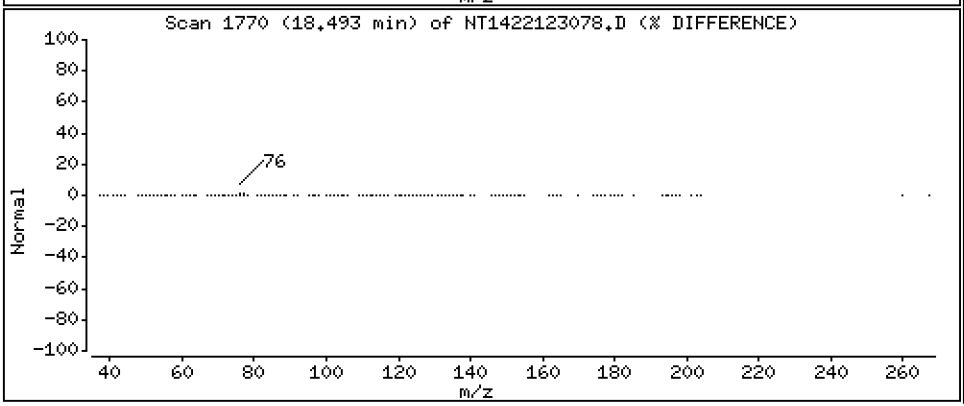
61 Anthracene

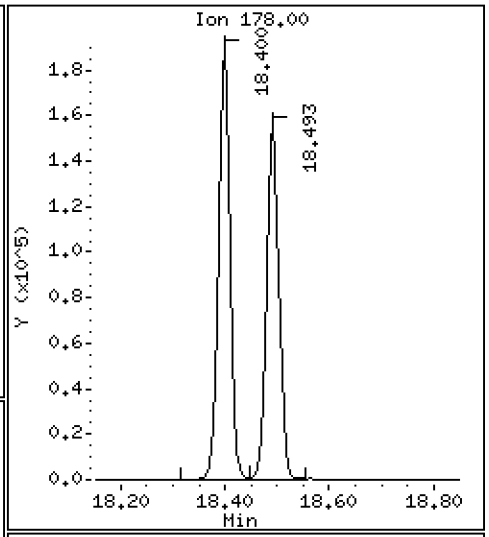
Concentration: 3.901 ug/mL

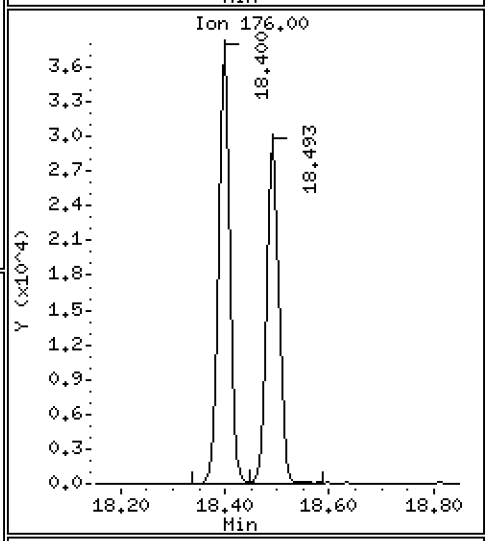


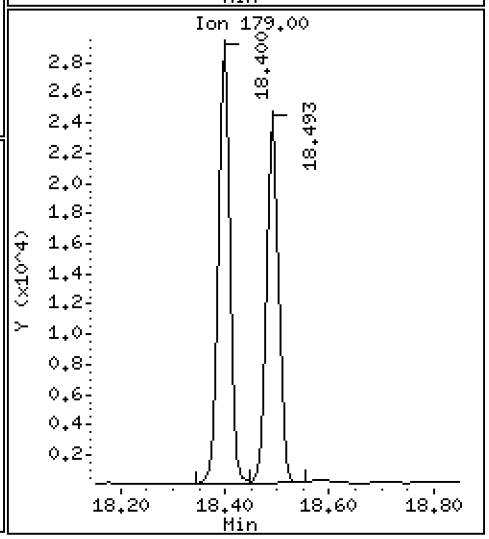












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

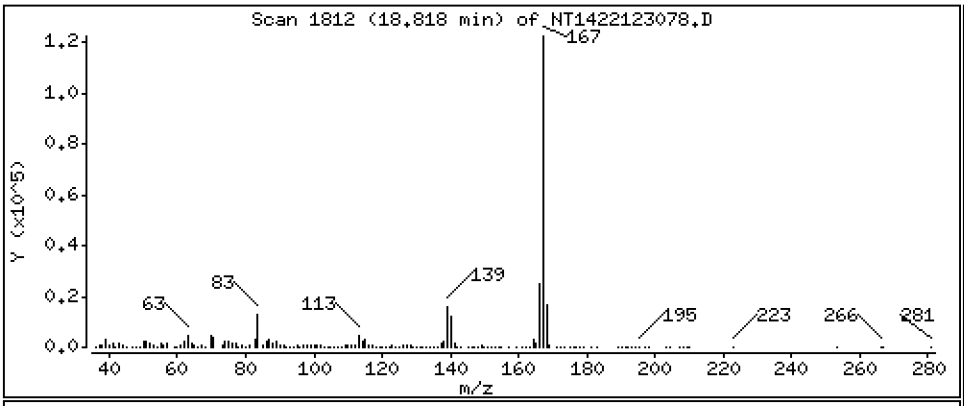
Operator: VTS

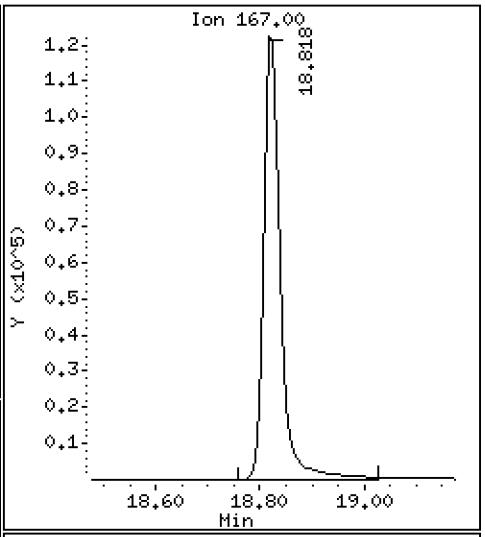
Column phase: ZB-5msi

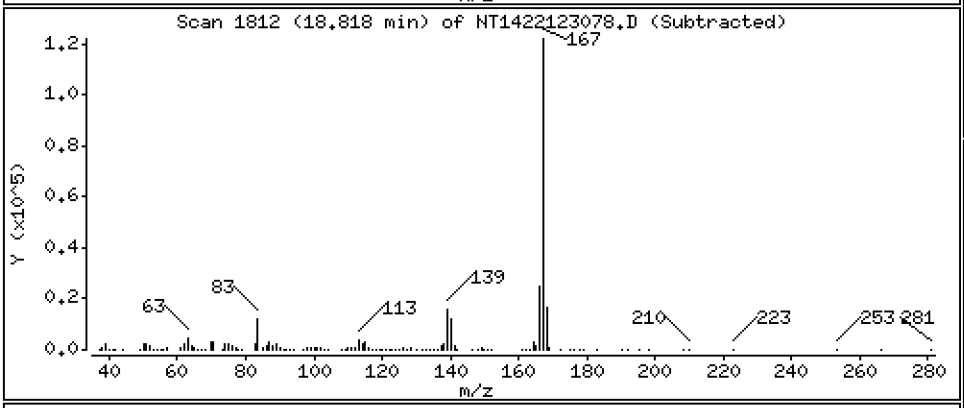
Column diameter: 0.25

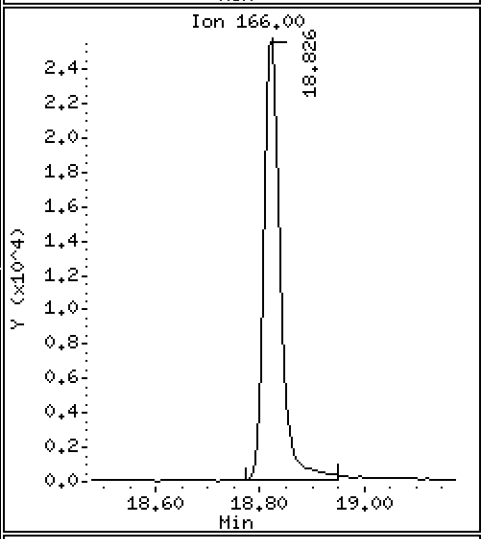
62 Carbazole

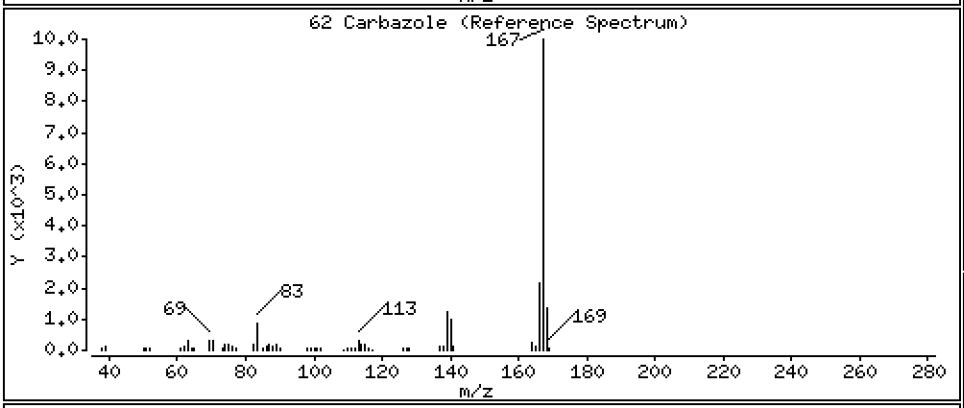
Concentration: 4.256 ug/mL

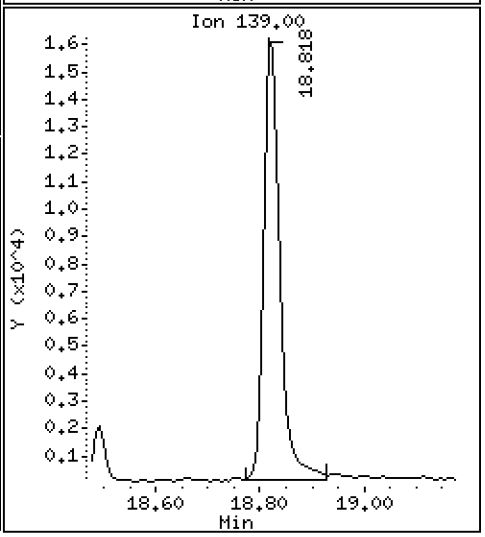


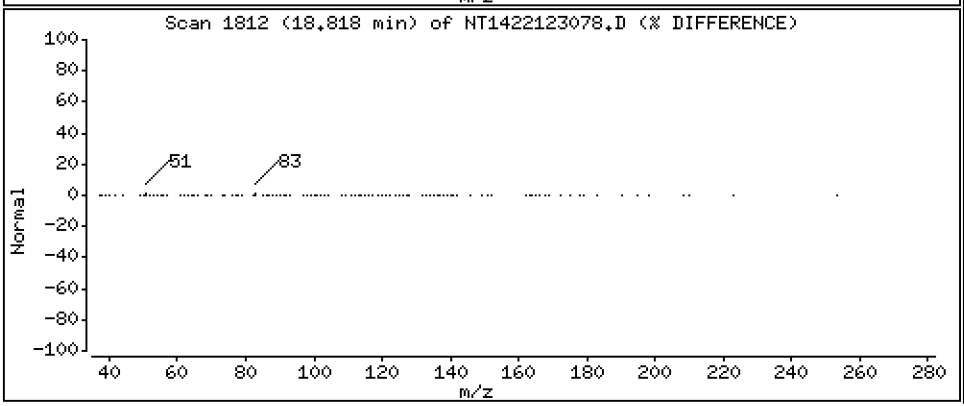












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123078.D

Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

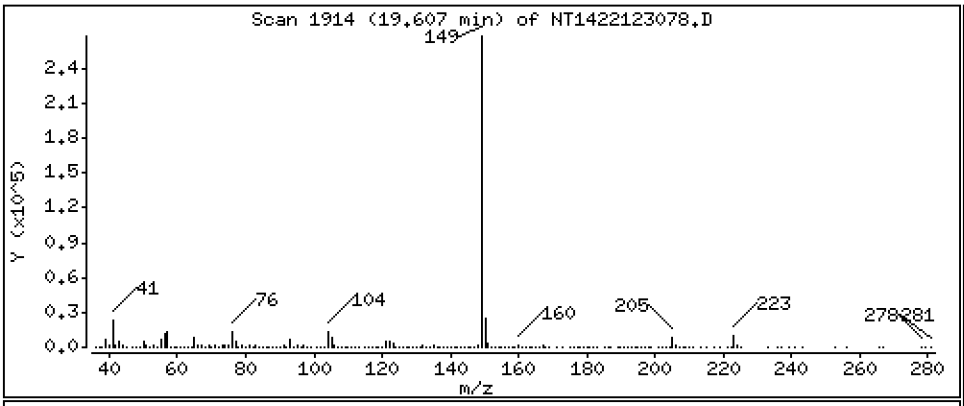
Operator: VTS

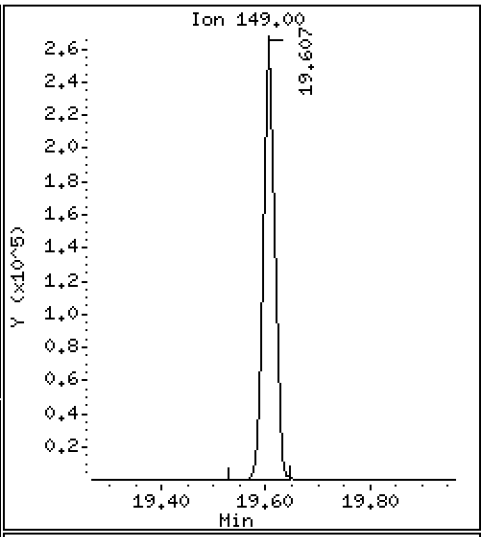
Column phase: ZB-5msi

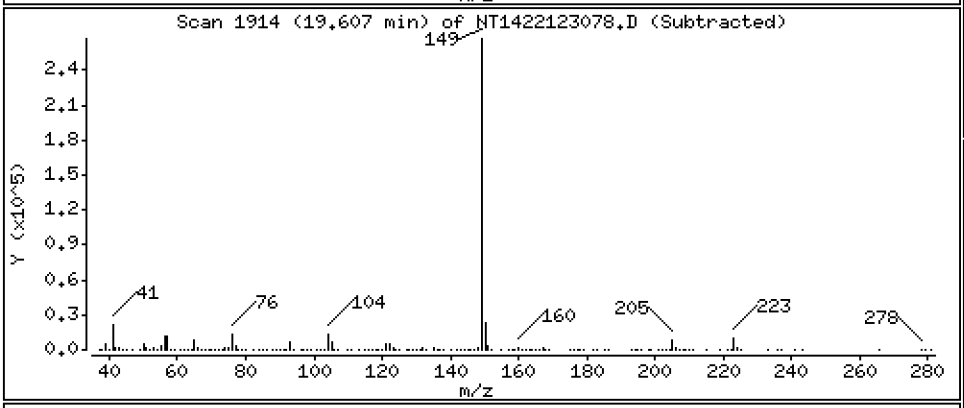
Column diameter: 0.25

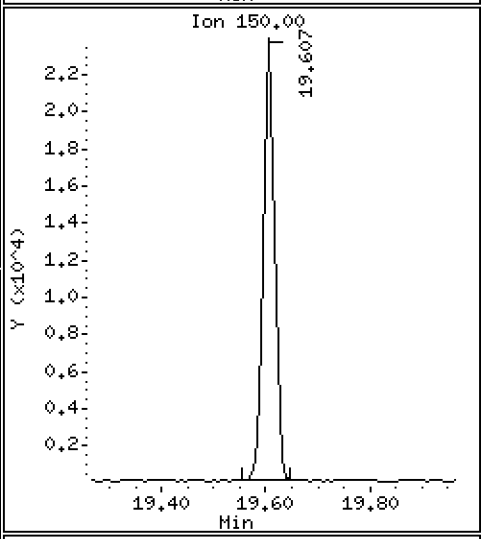
63 Di-n-butylphthalate

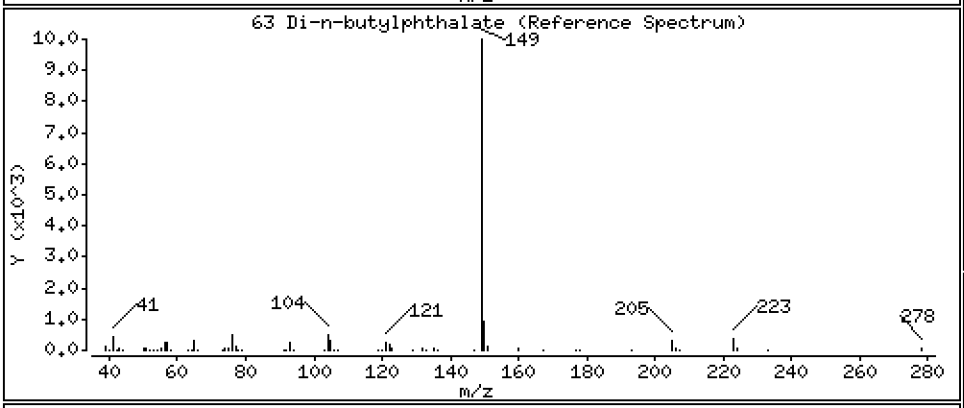
Concentration: 5.358 ug/mL

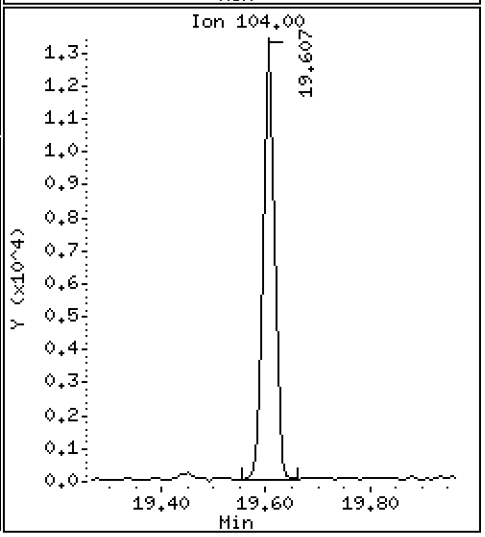


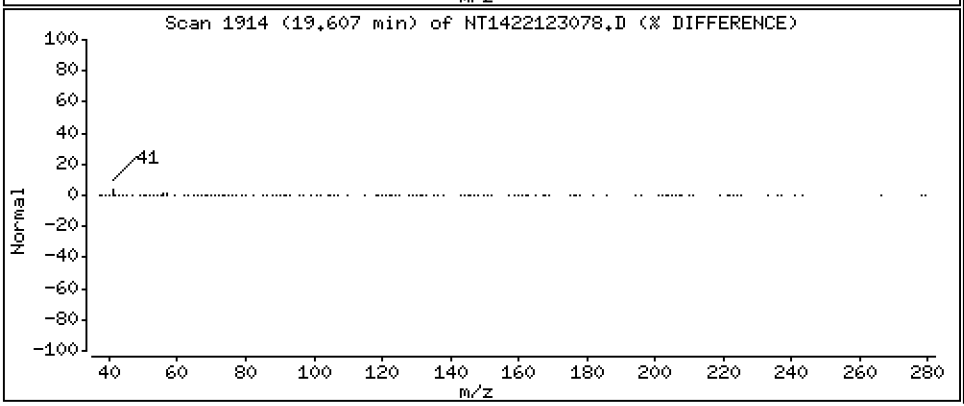












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

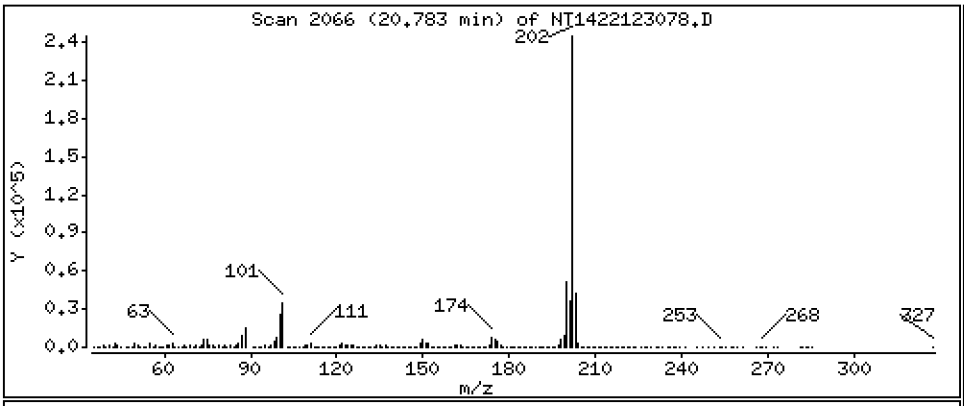
Operator: VTS

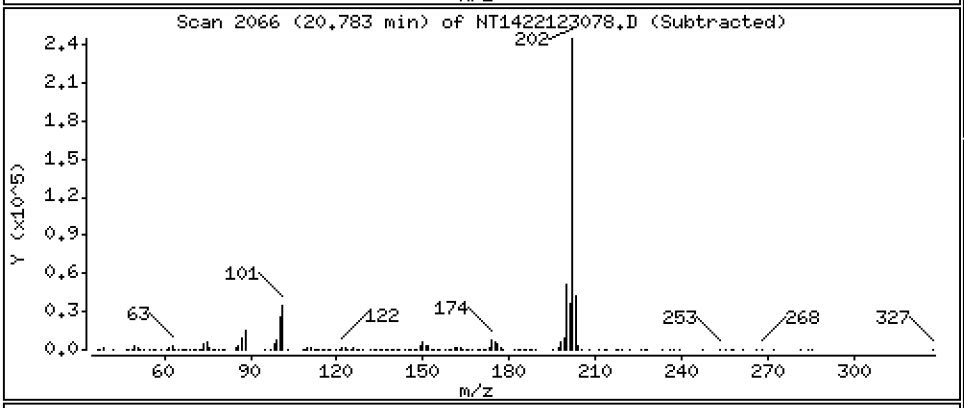
Column phase: ZB-5msi

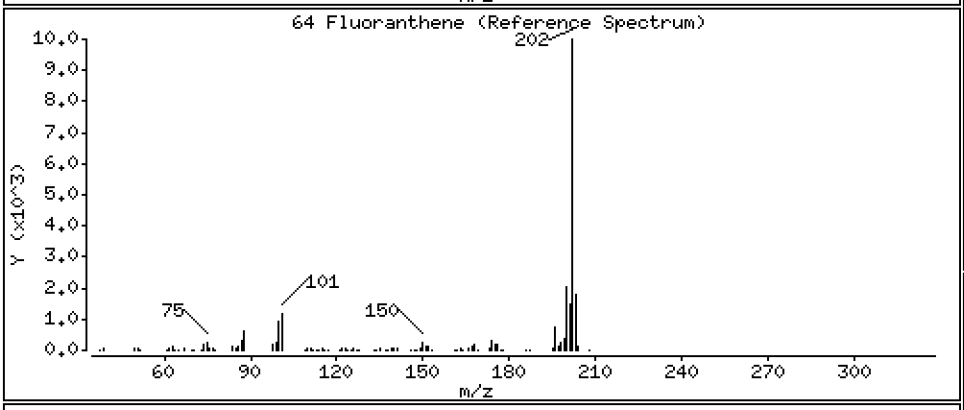
Column diameter: 0.25

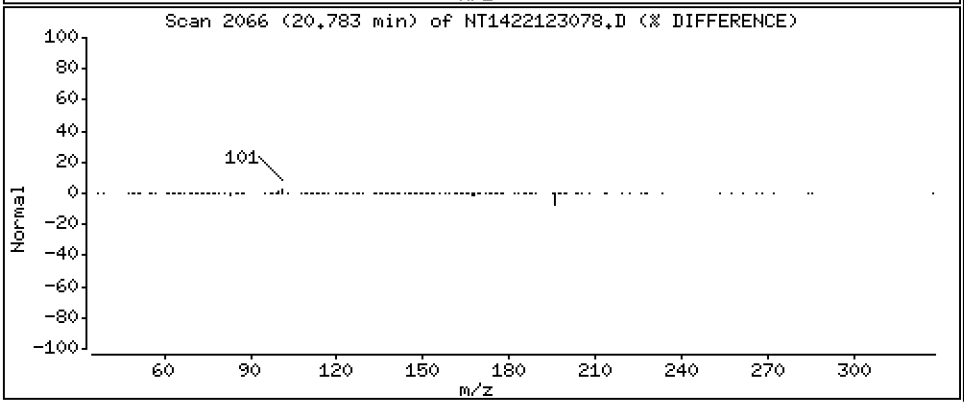
64 Fluoranthene

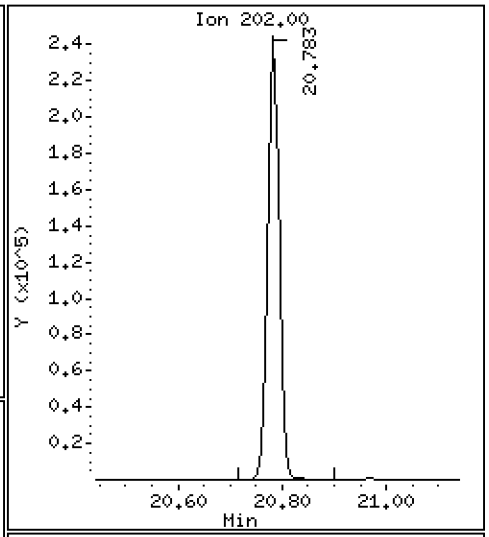
Concentration: 5.289 ug/mL

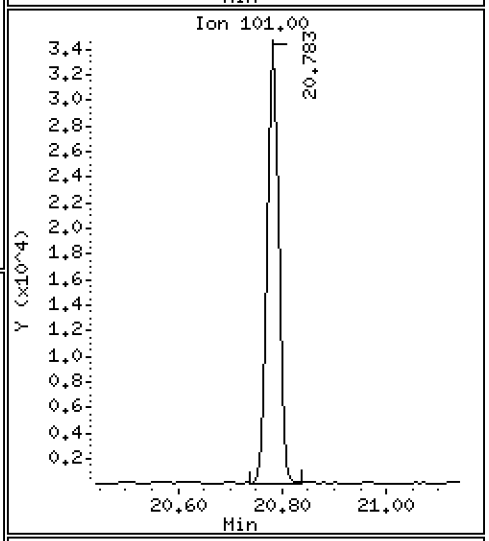


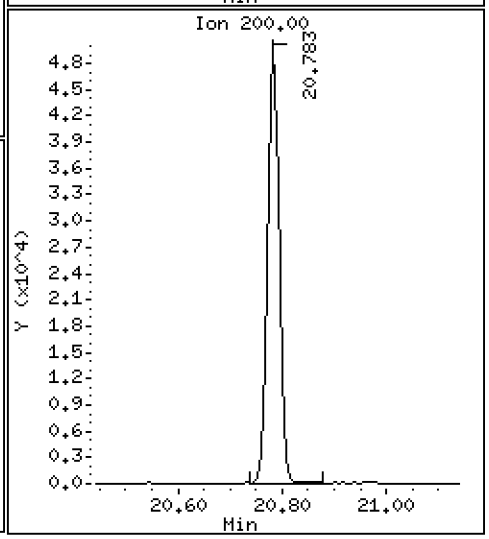












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

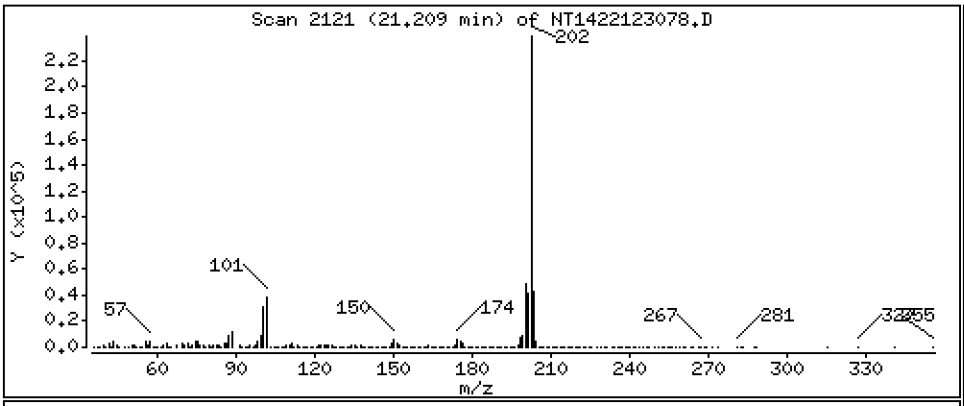
Operator: VTS

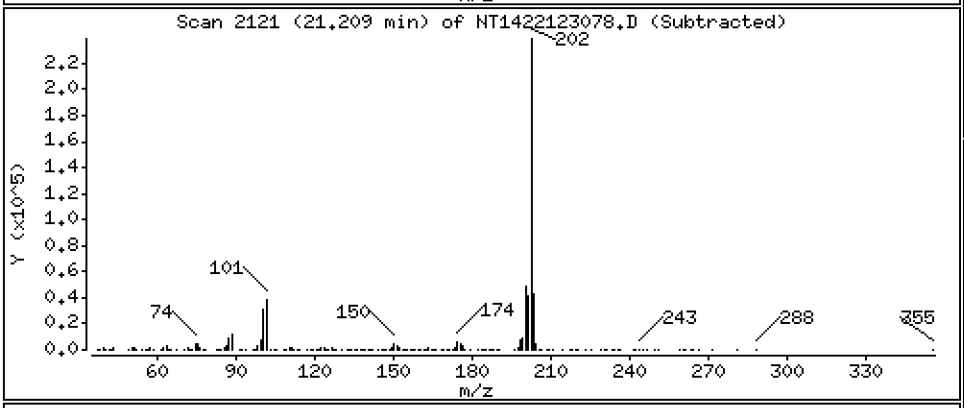
Column phase: ZB-5msi

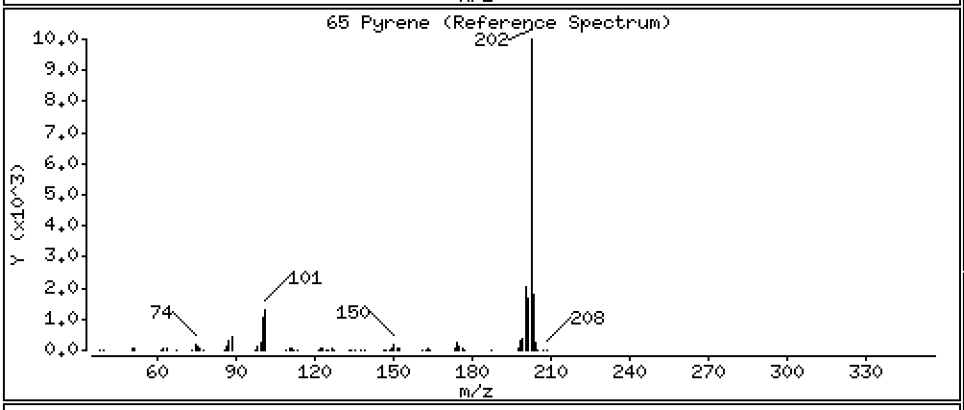
Column diameter: 0.25

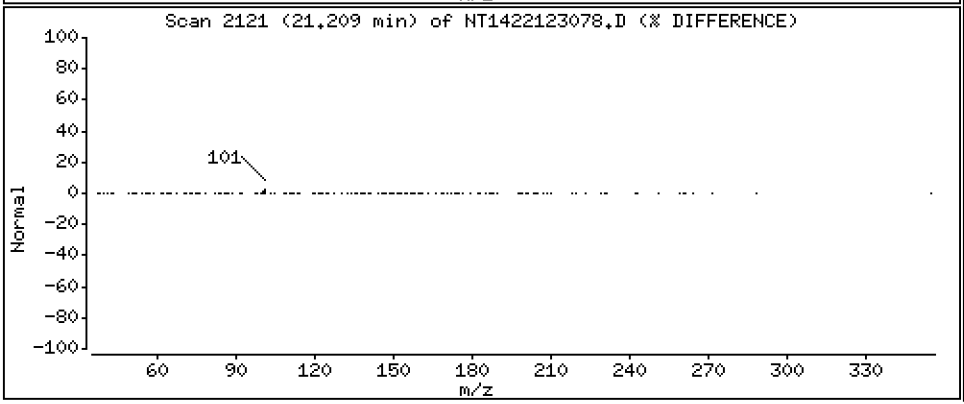
65 Pyrene

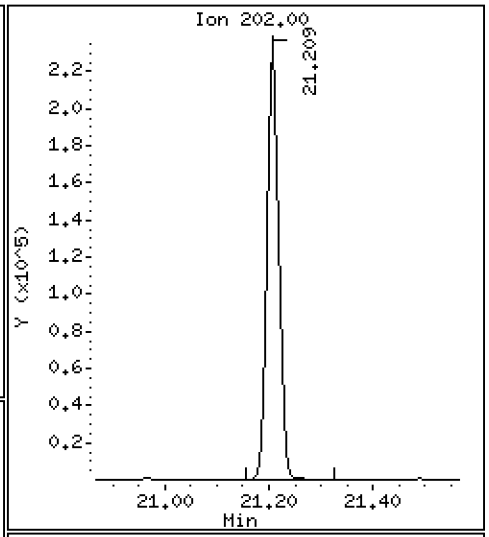
Concentration: 5.165 ug/mL

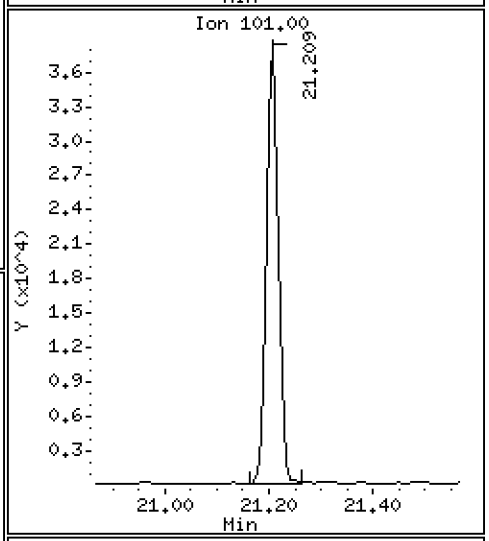


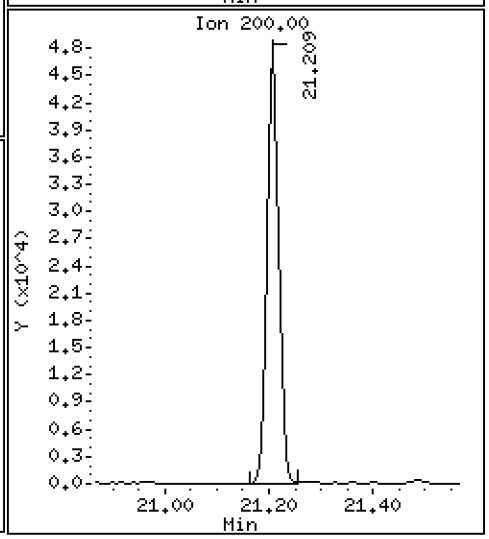












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

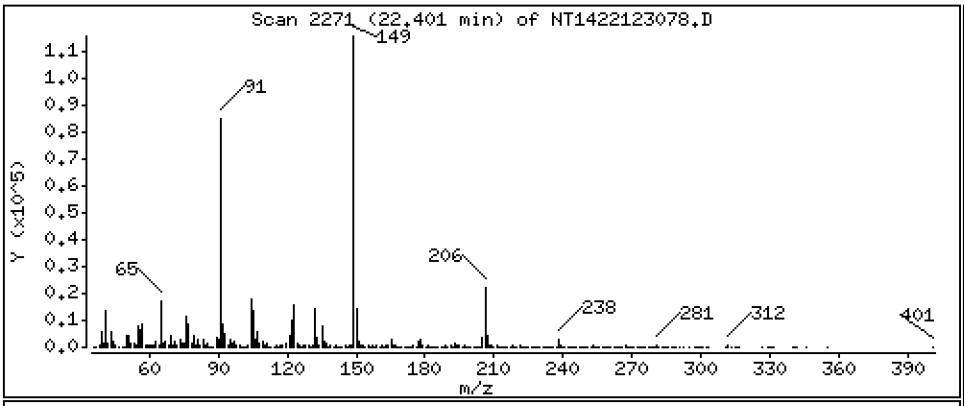
Operator: VTS

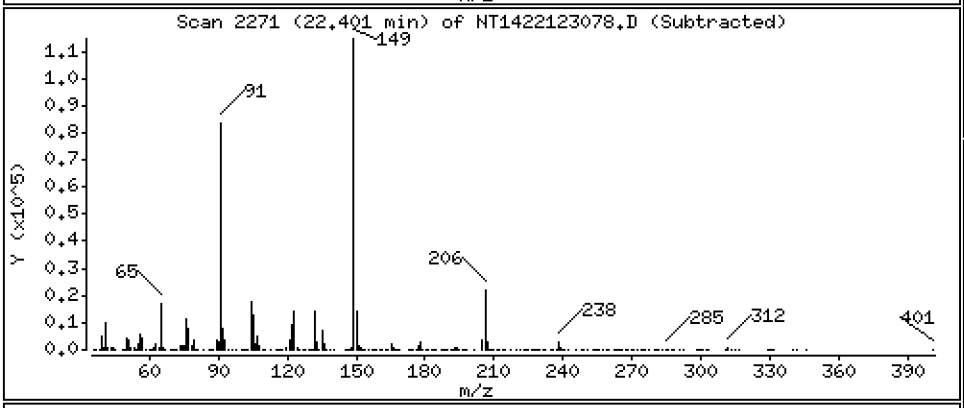
Column phase: ZB-5msi

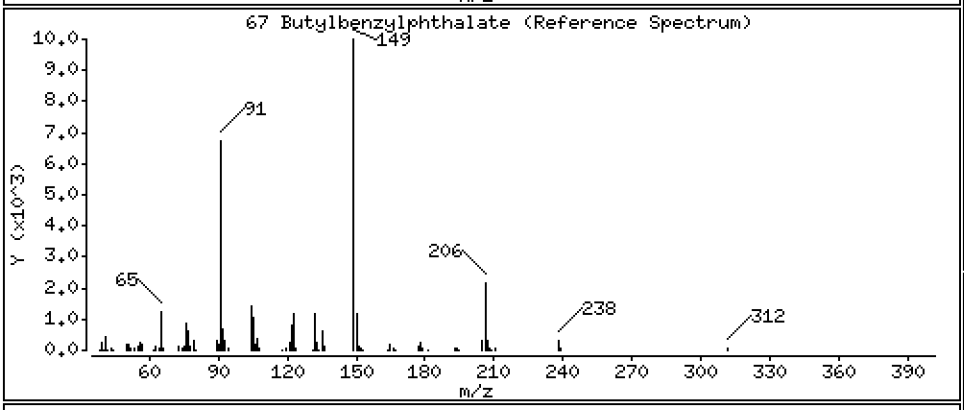
Column diameter: 0.25

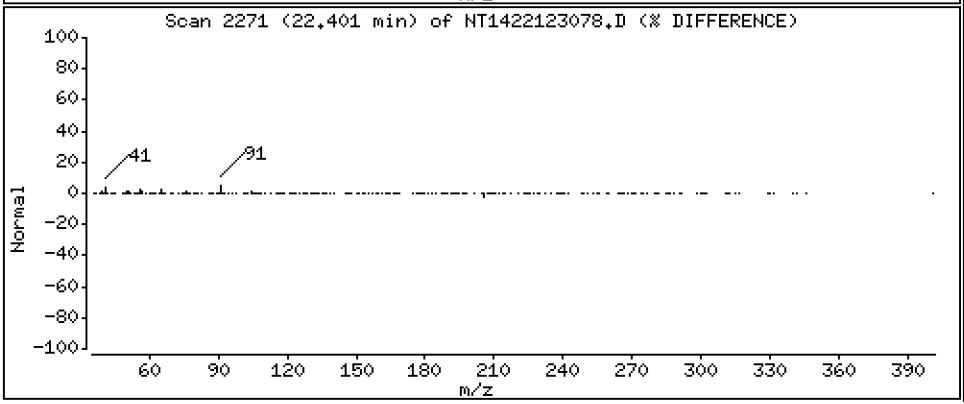
67 Butylbenzylphthalate

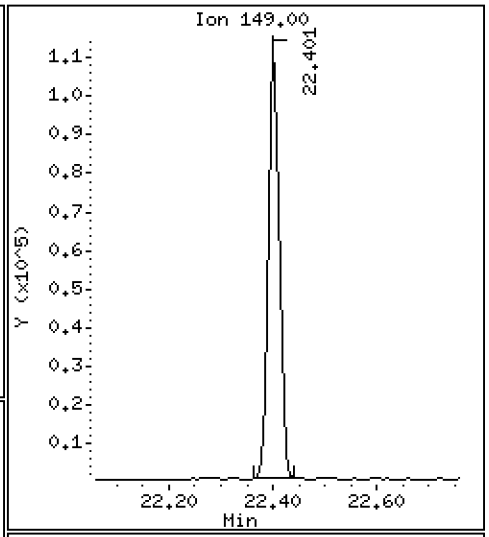
Concentration: 5.892 ug/mL

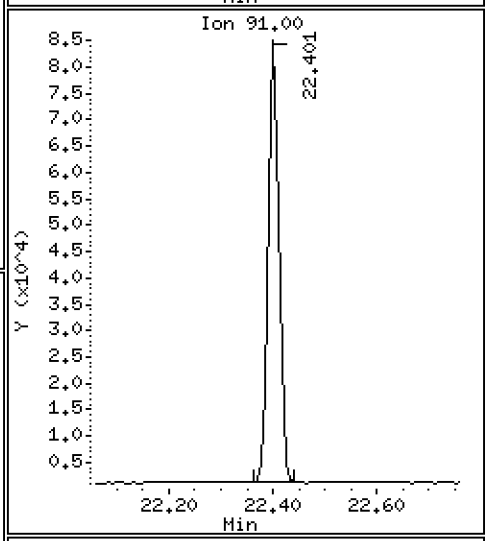


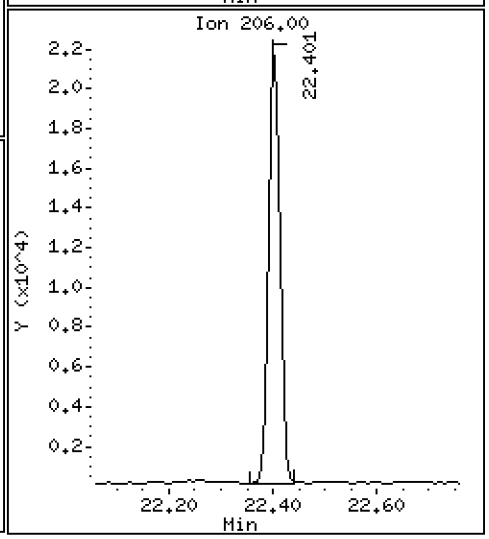












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

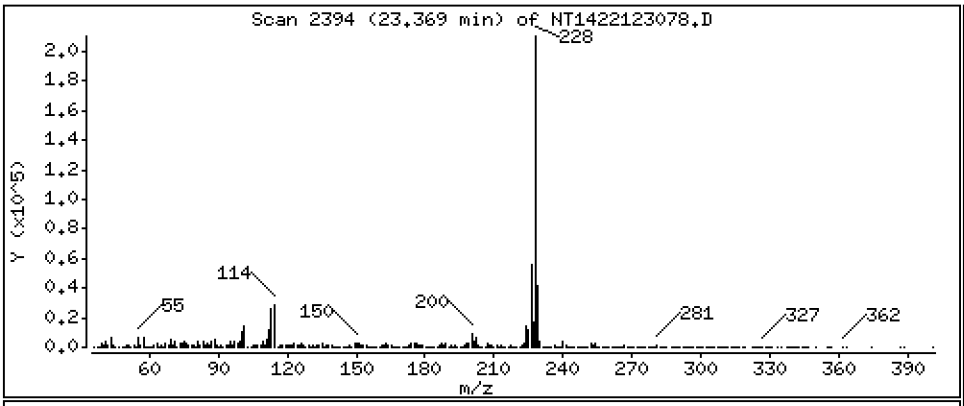
Operator: VTS

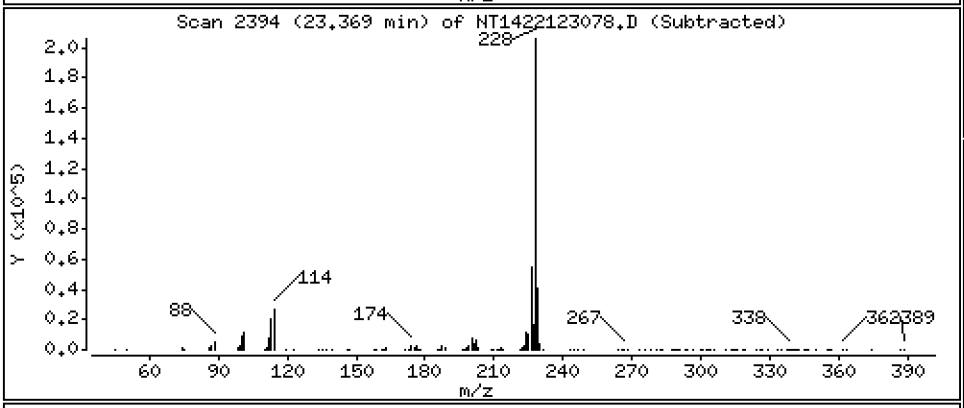
Column phase: ZB-5msi

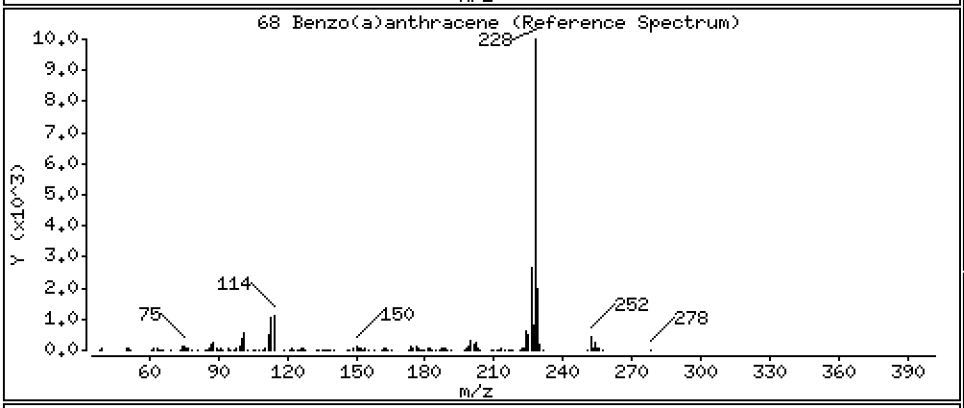
Column diameter: 0.25

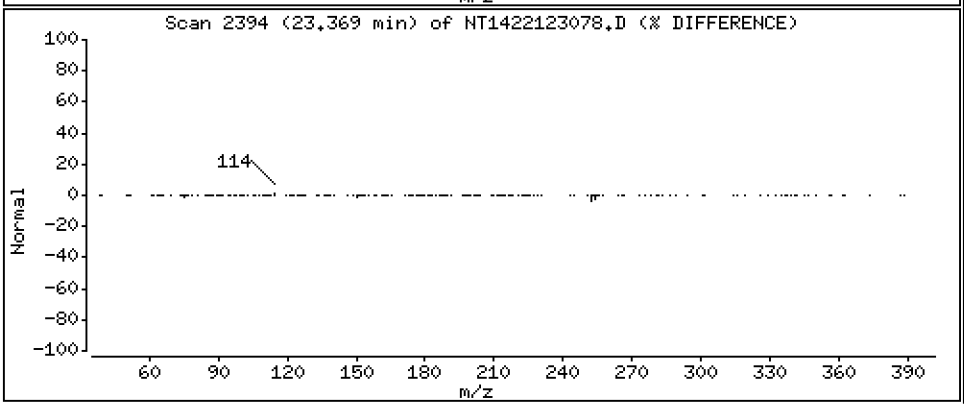
68 Benzo(a)anthracene

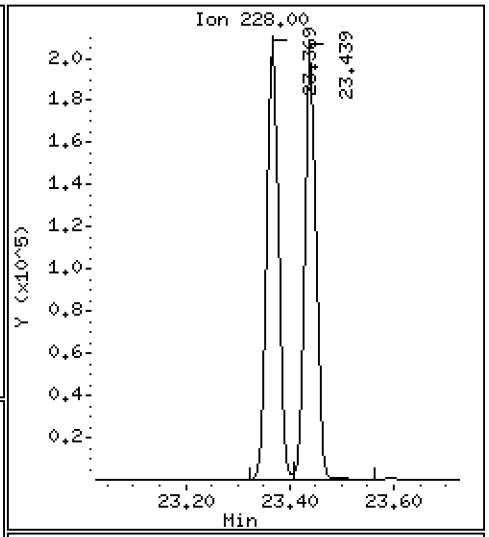
Concentration: 4.928 ug/mL

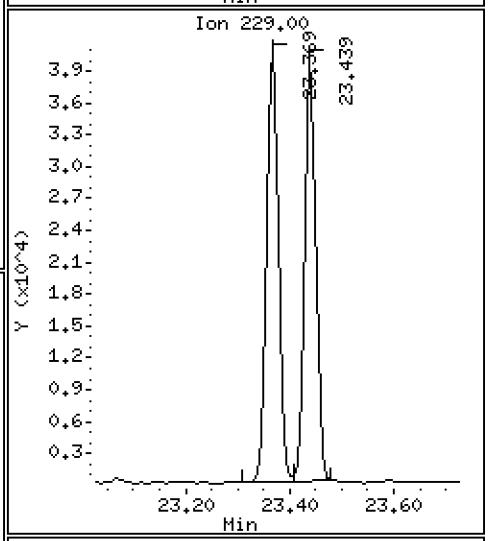


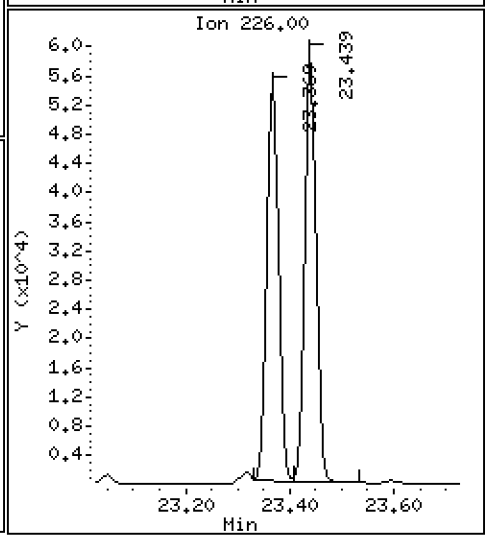












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

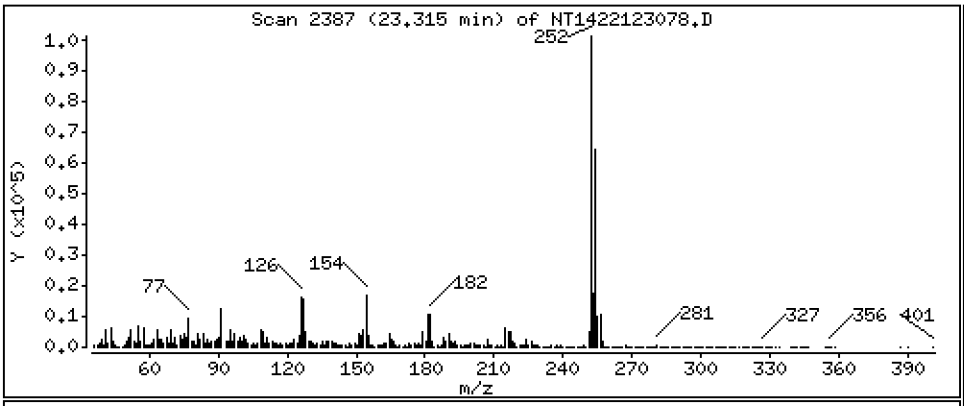
Operator: VTS

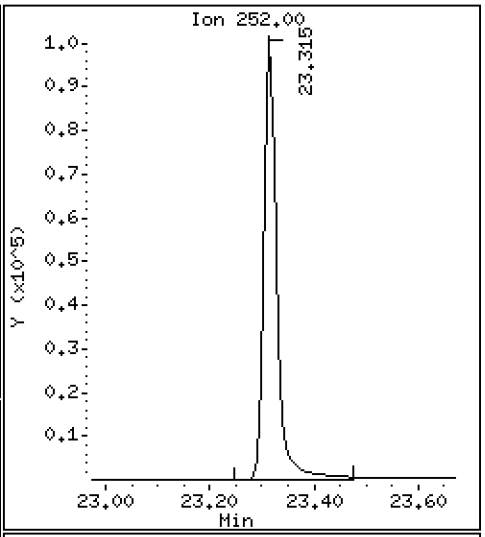
Column phase: ZB-5msi

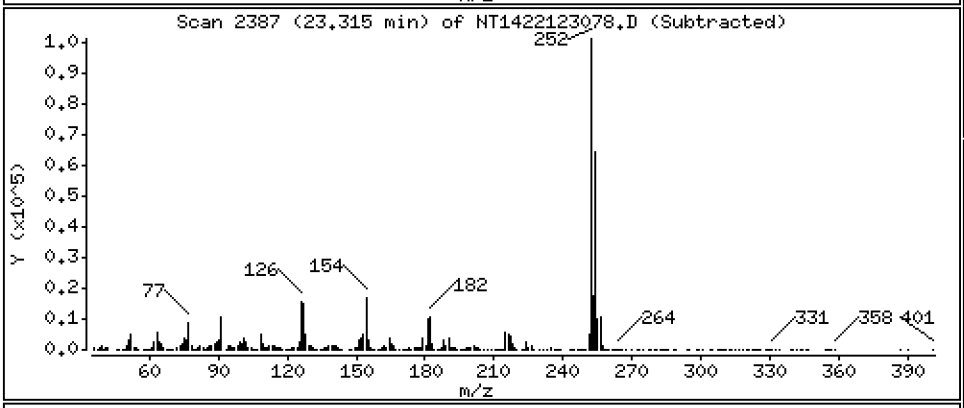
Column diameter: 0.25

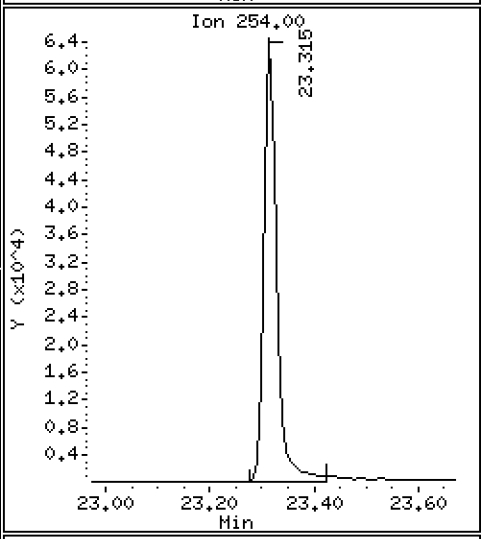
70 3,3'-Dichlorobenzidine

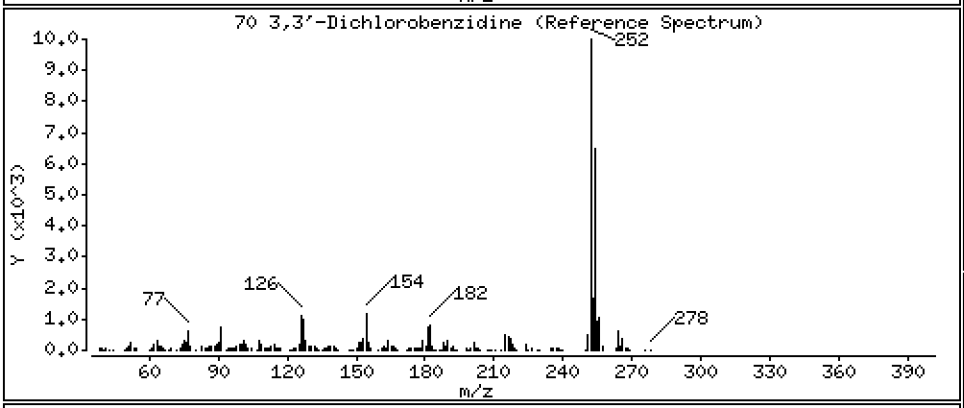
Concentration: 8.626 ug/mL

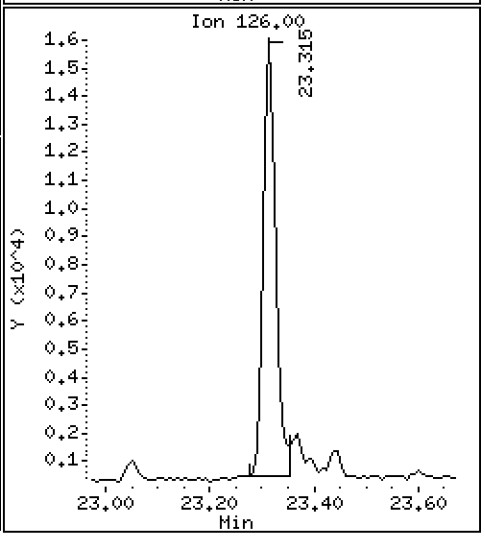


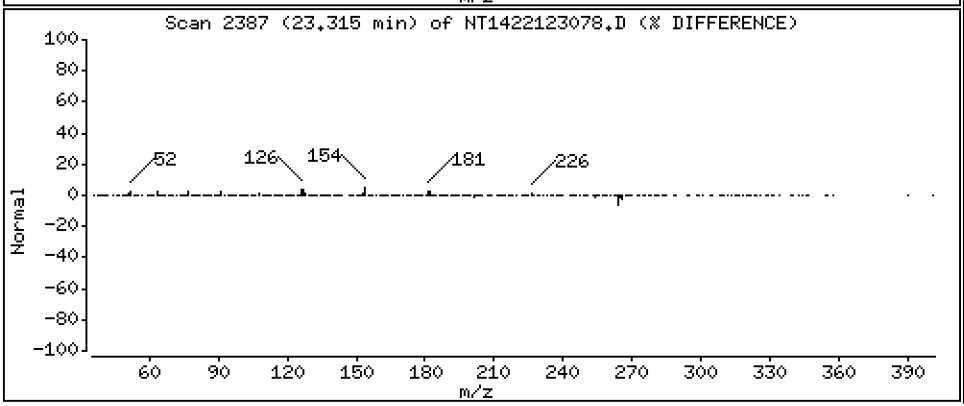












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

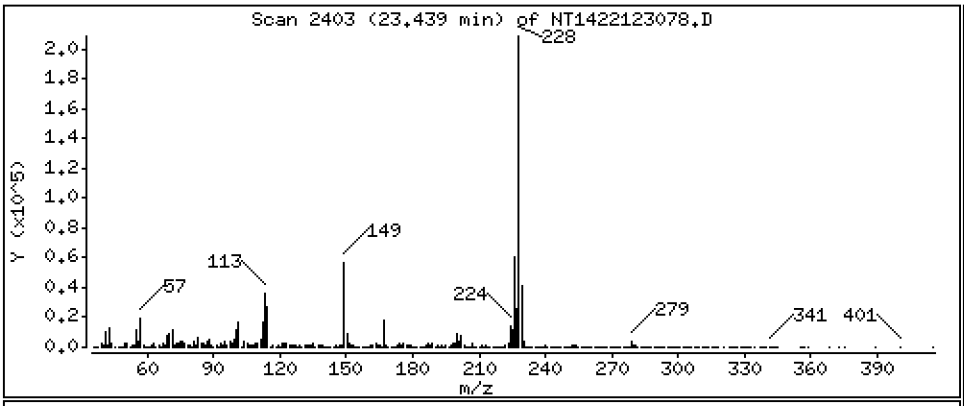
Operator: VTS

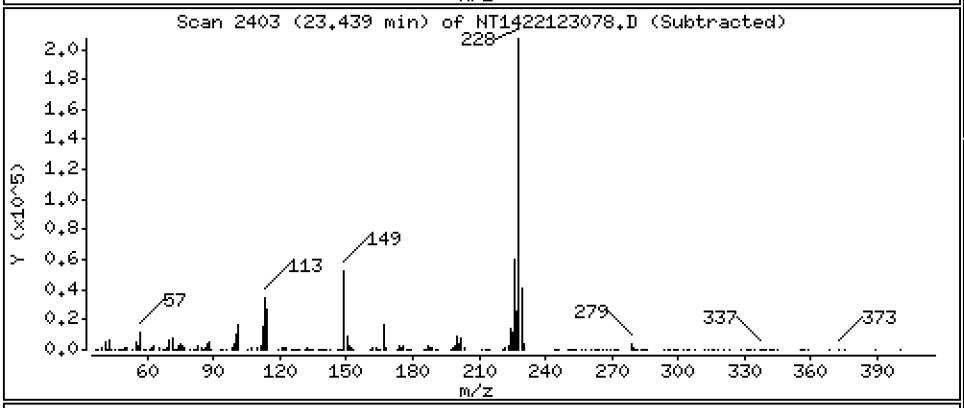
Column phase: ZB-5msi

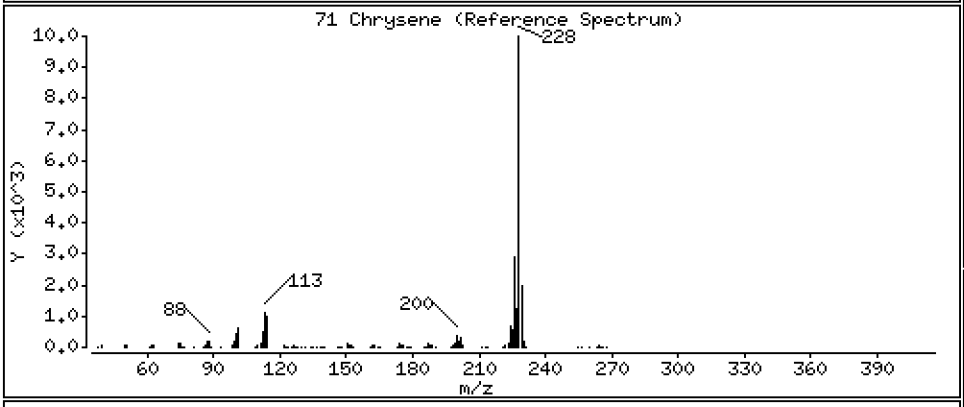
Column diameter: 0.25

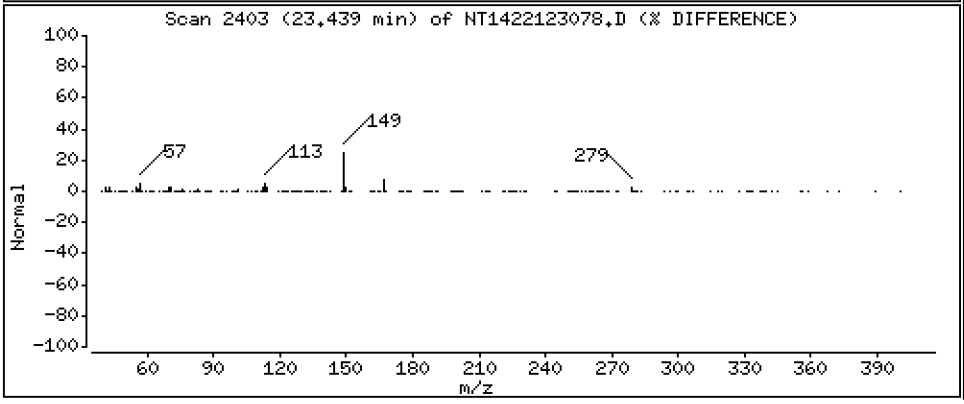
71 Chrysene

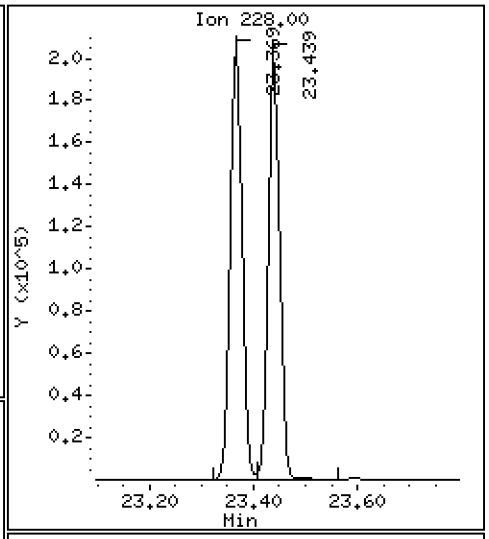
Concentration: 5.054 ug/mL

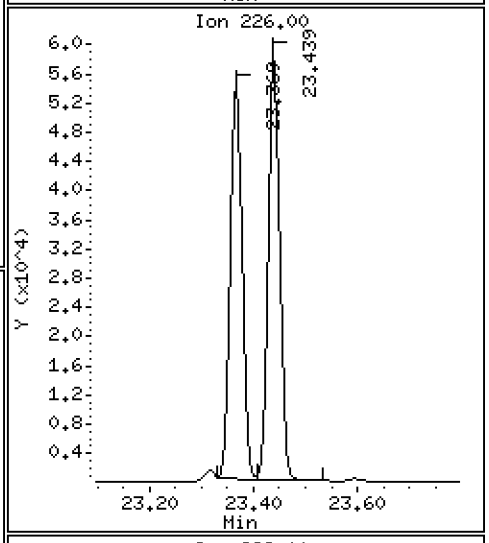


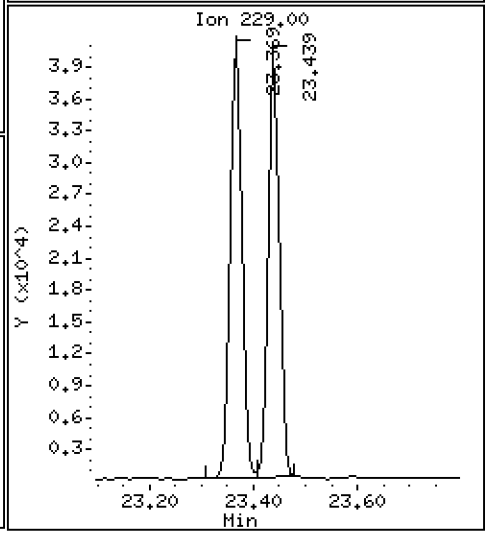












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123078.D

Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

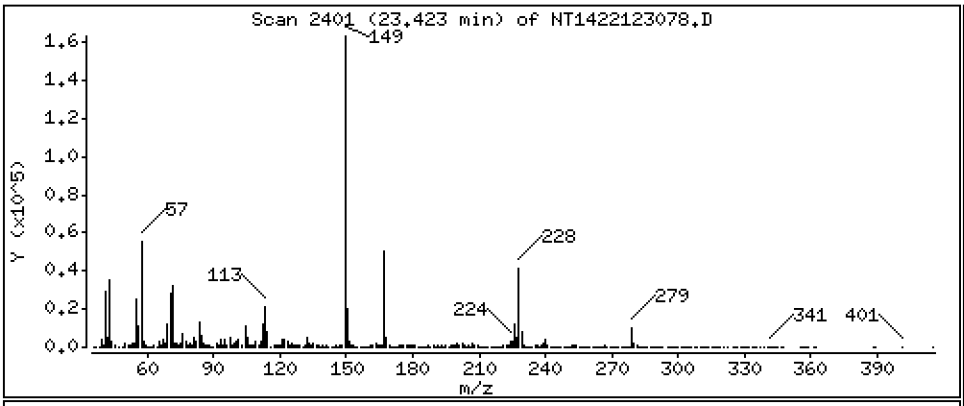
Operator: VTS

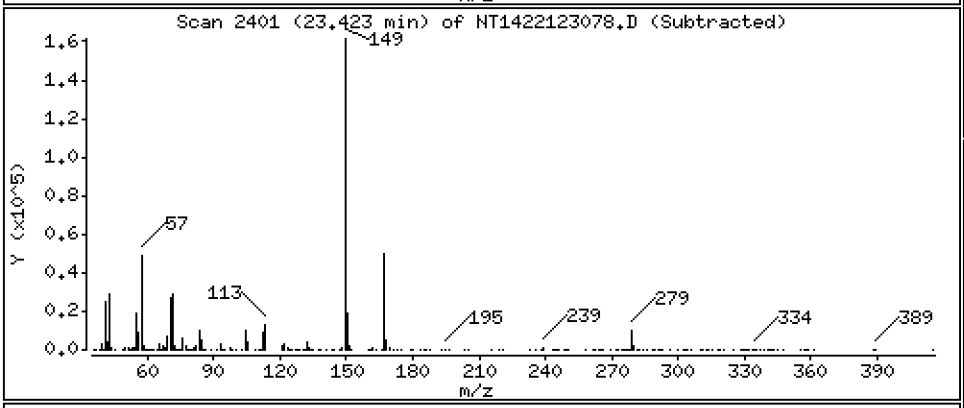
Column phase: ZB-5msi

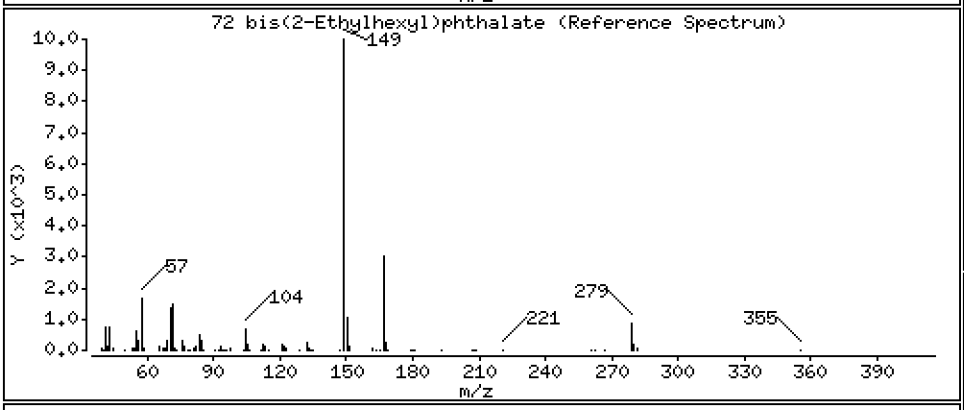
Column diameter: 0.25

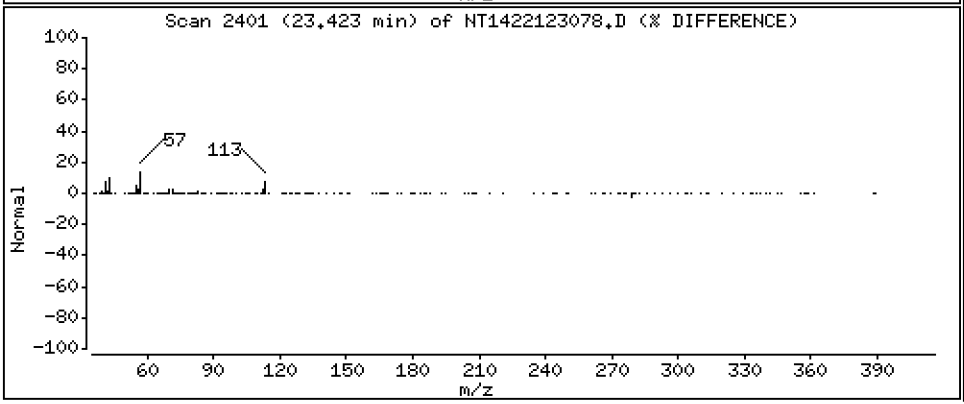
72 bis(2-Ethylhexyl)phthalate

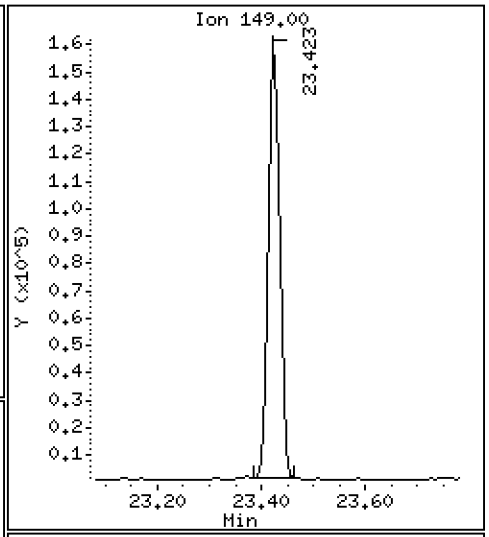
Concentration: 5.605 ug/mL

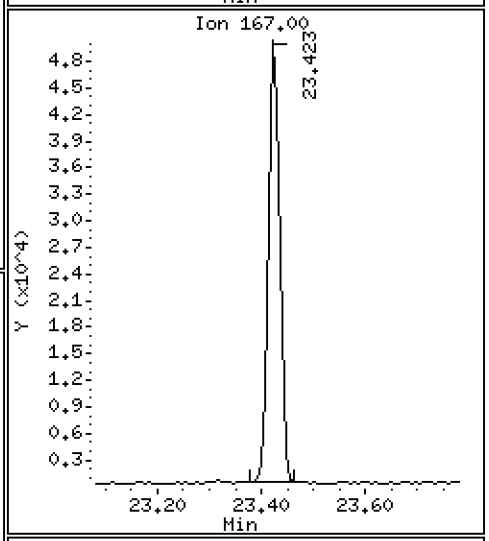


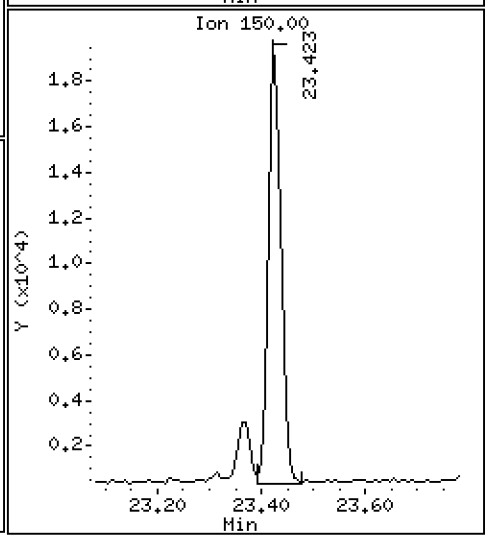












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

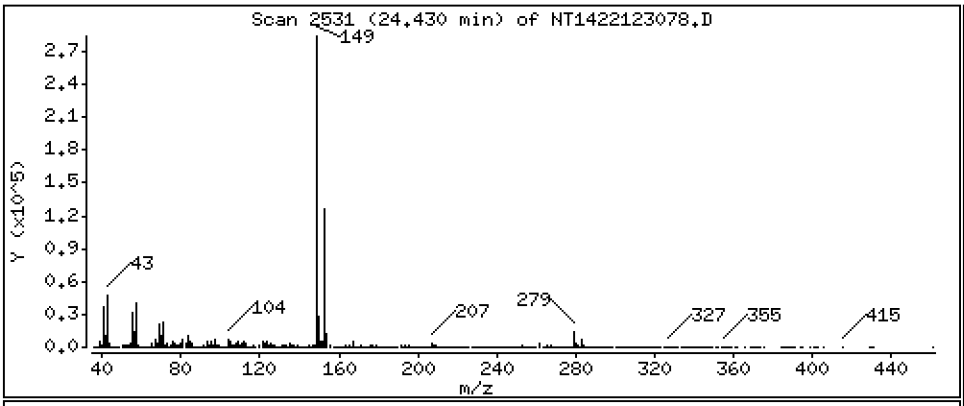
Operator: VTS

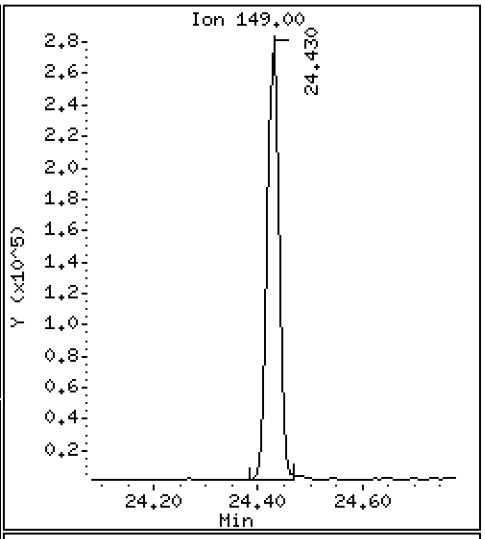
Column phase: ZB-5msi

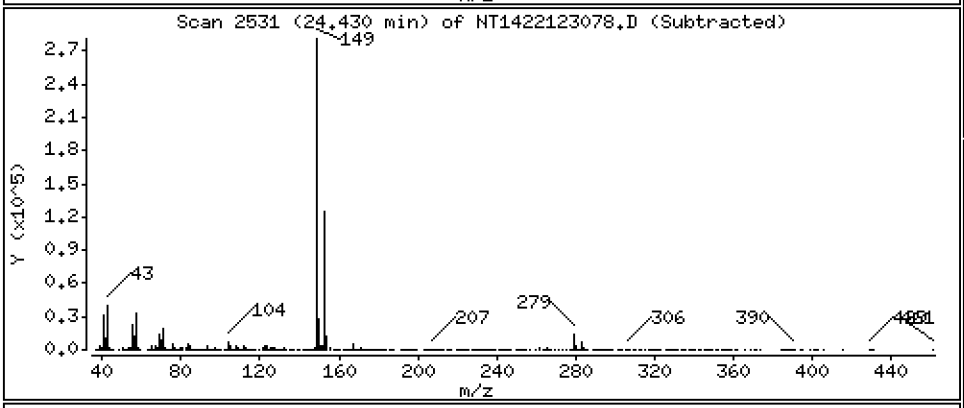
Column diameter: 0.25

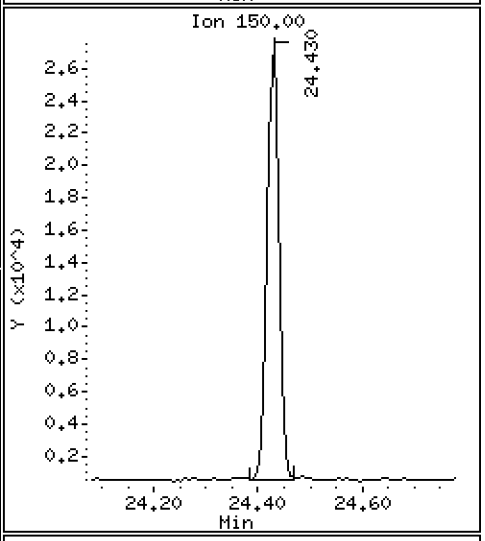
73 Di-n-octylphthalate

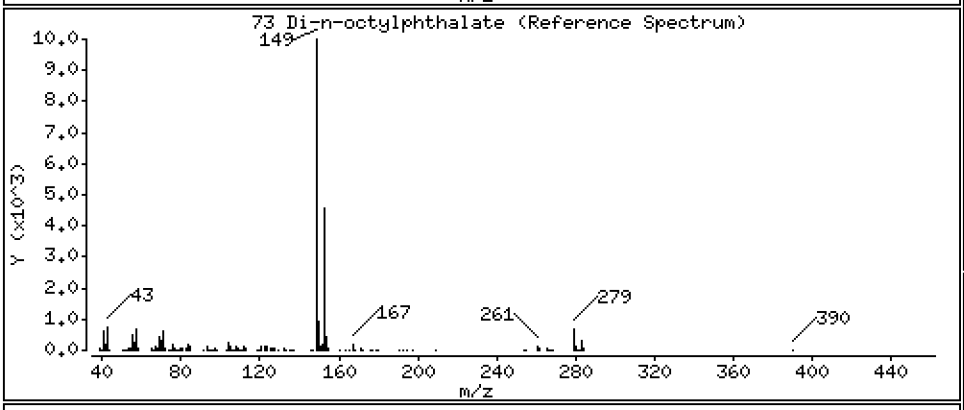
Concentration: 4.574 ug/mL

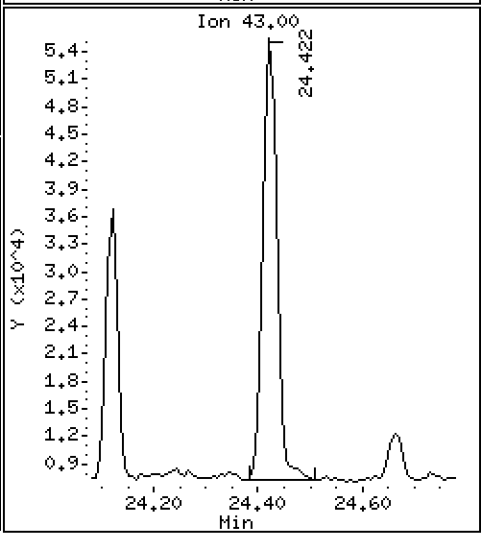


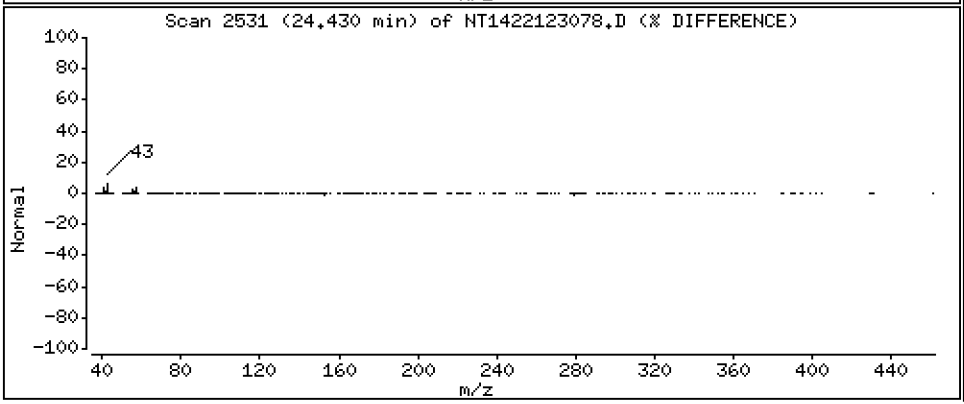












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

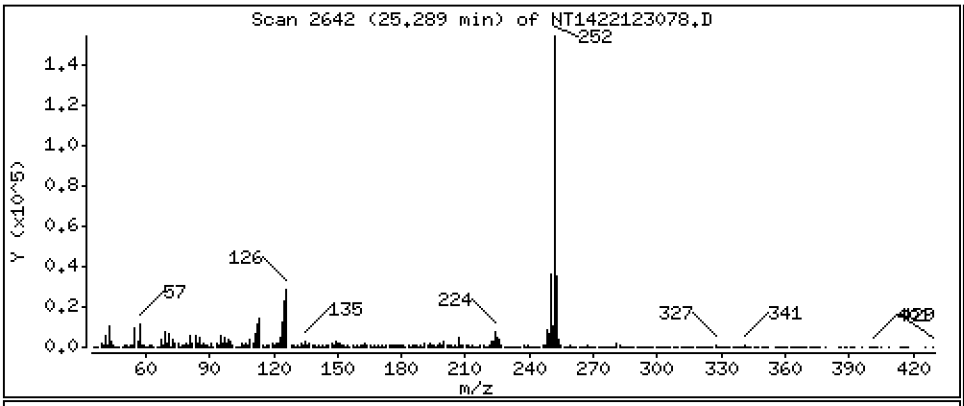
Operator: VTS

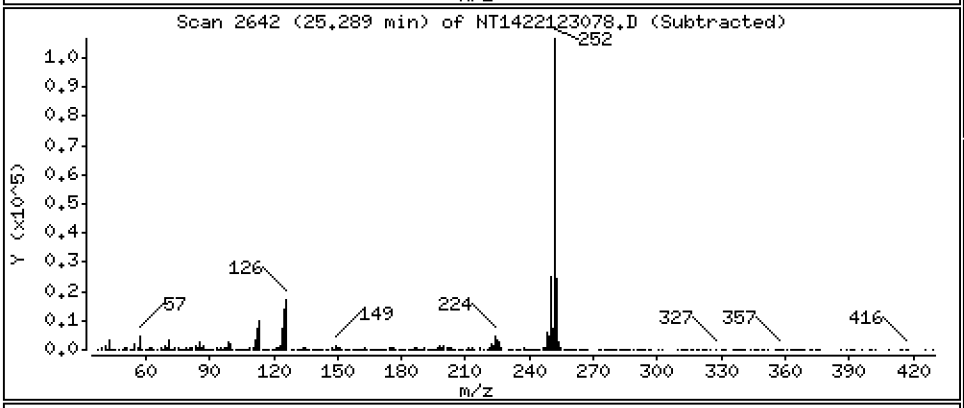
Column phase: ZB-5msi

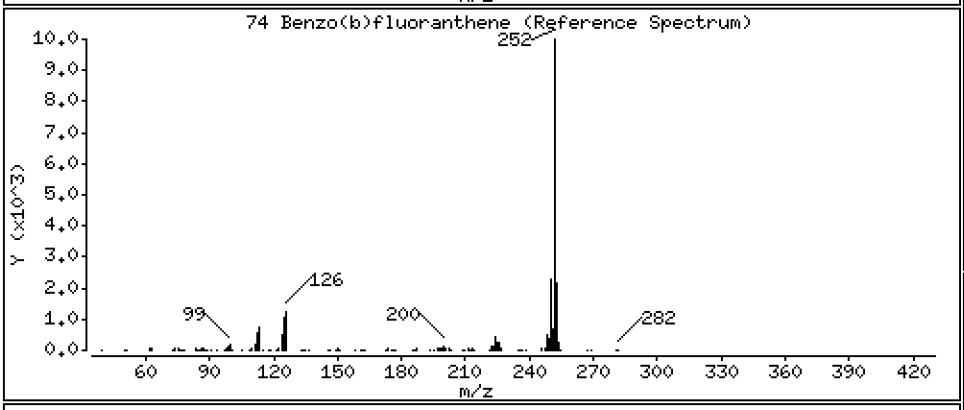
Column diameter: 0.25

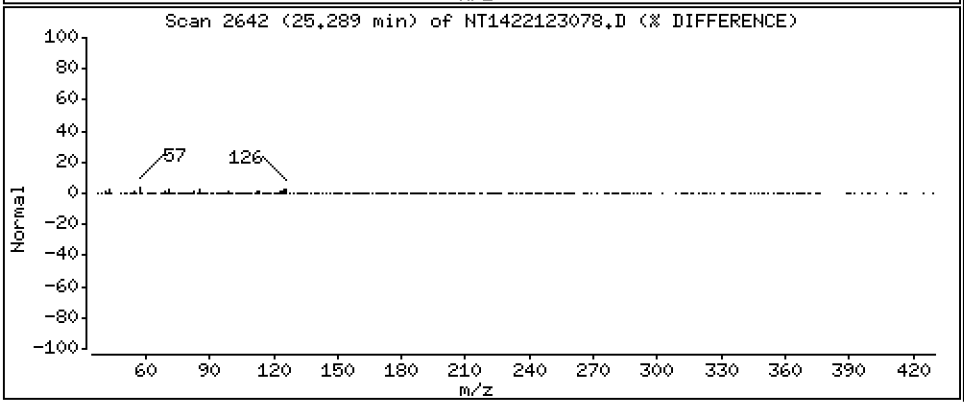
74 Benzo(b)fluoranthene

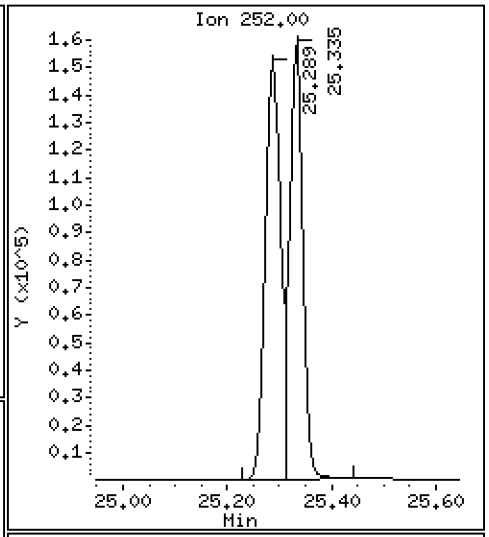
Concentration: 5.470 ug/mL

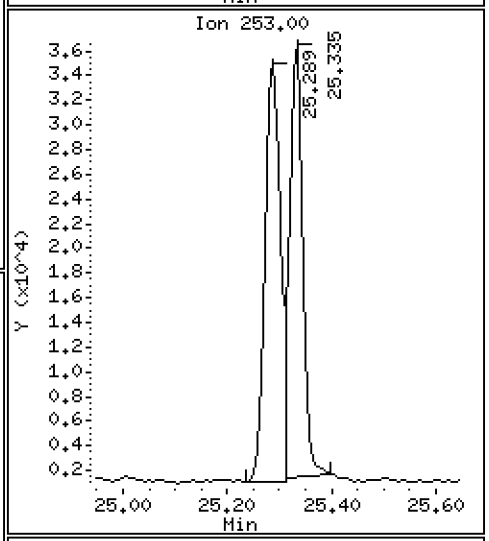


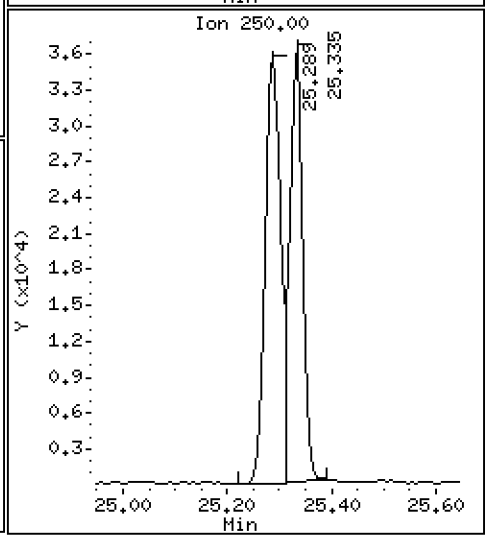












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

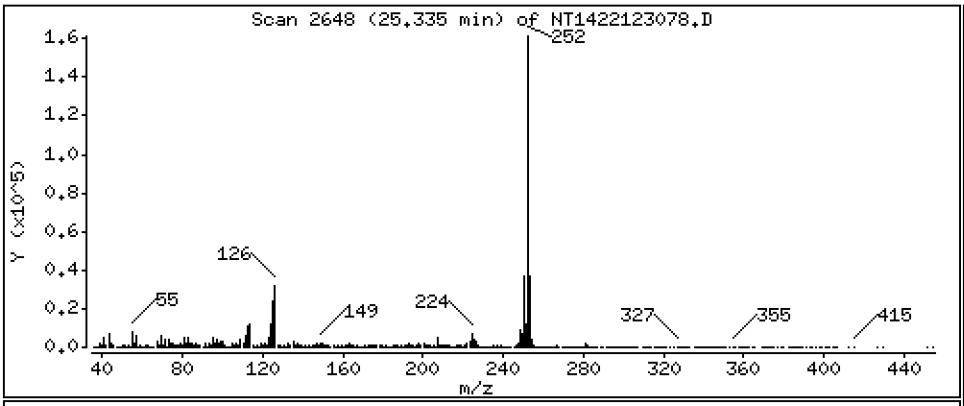
Operator: VTS

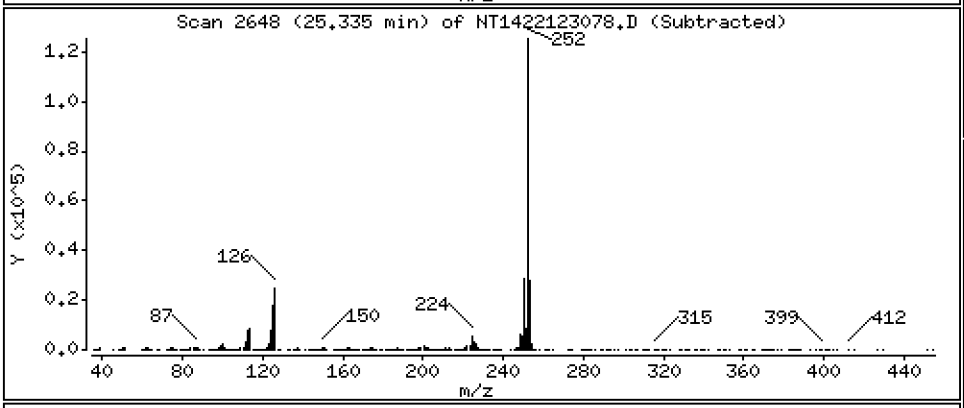
Column phase: ZB-5msi

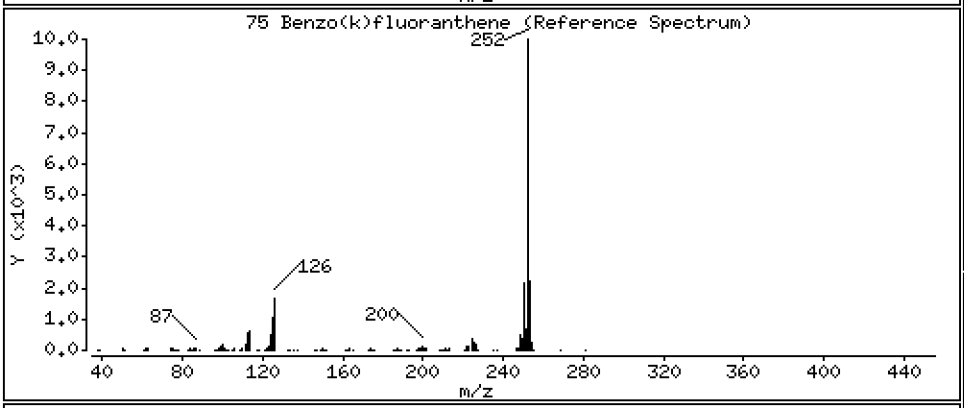
Column diameter: 0.25

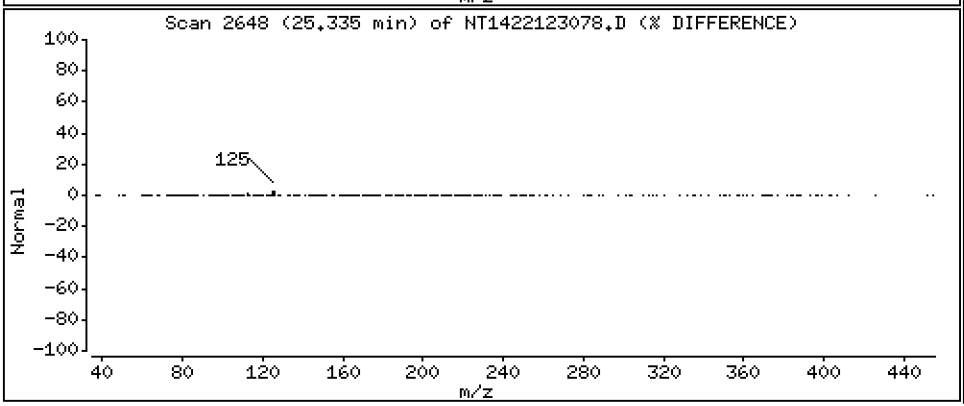
75 Benzo(k)fluoranthene

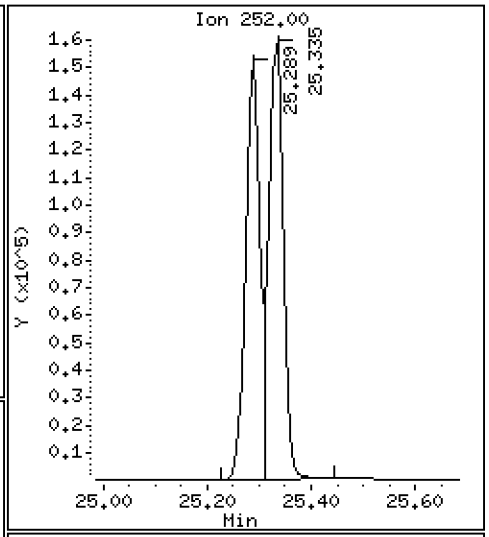
Concentration: 5.151 ug/mL

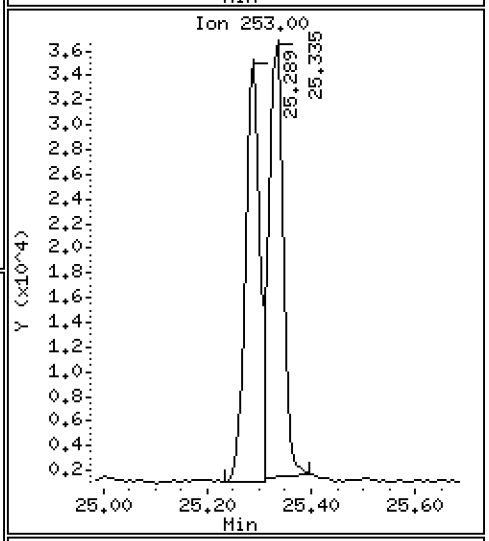


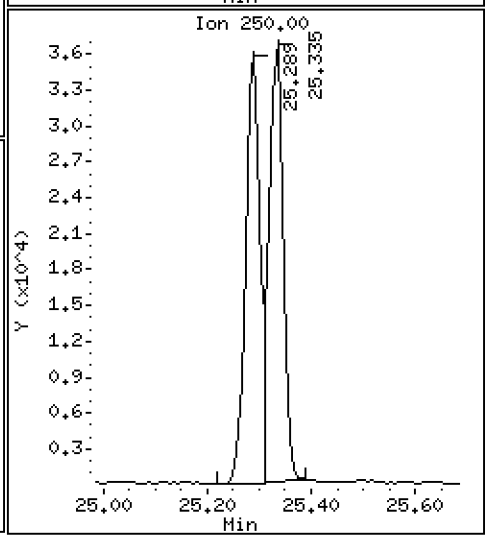












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

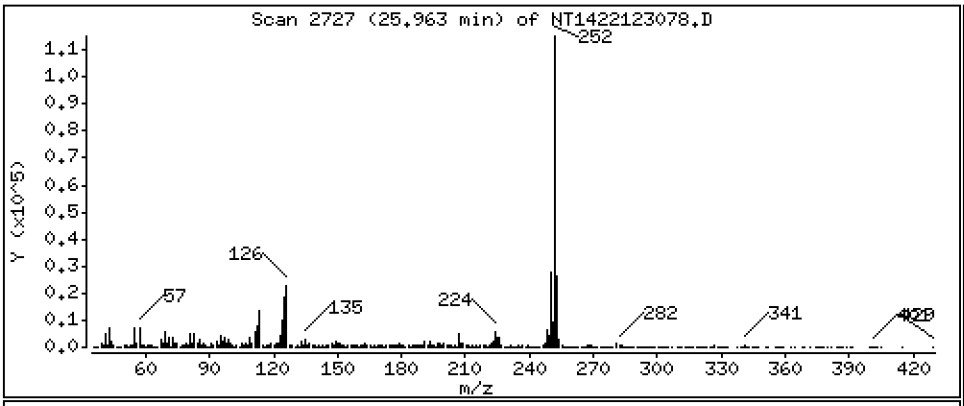
Operator: VTS

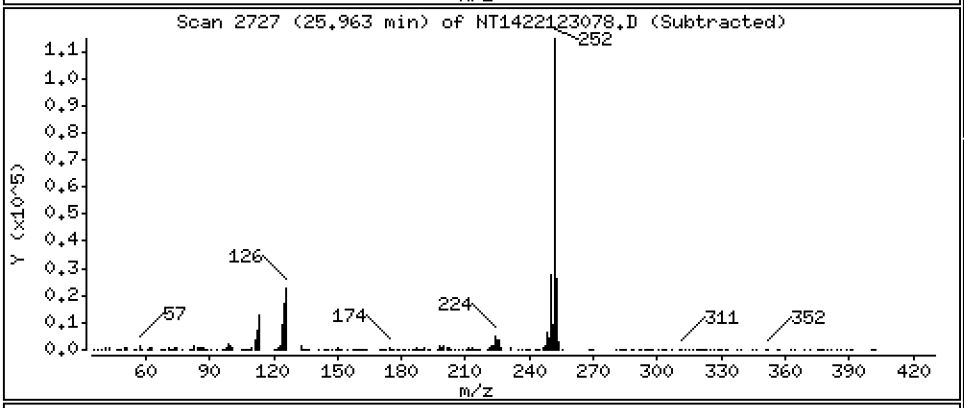
Column phase: ZB-5msi

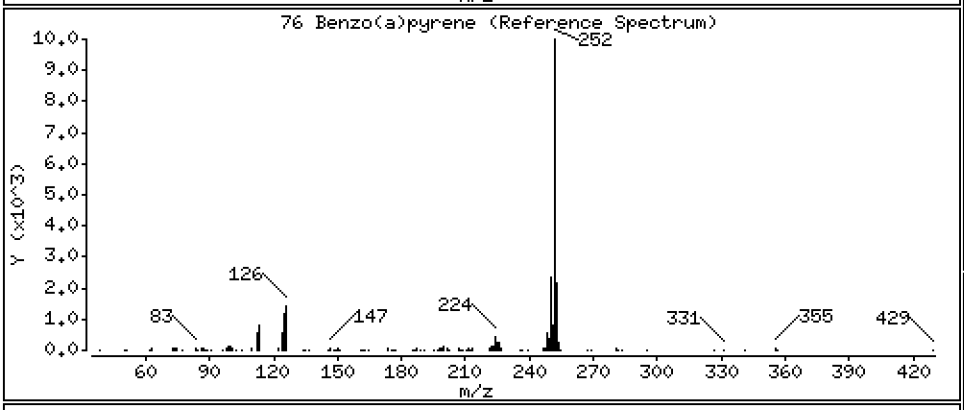
Column diameter: 0.25

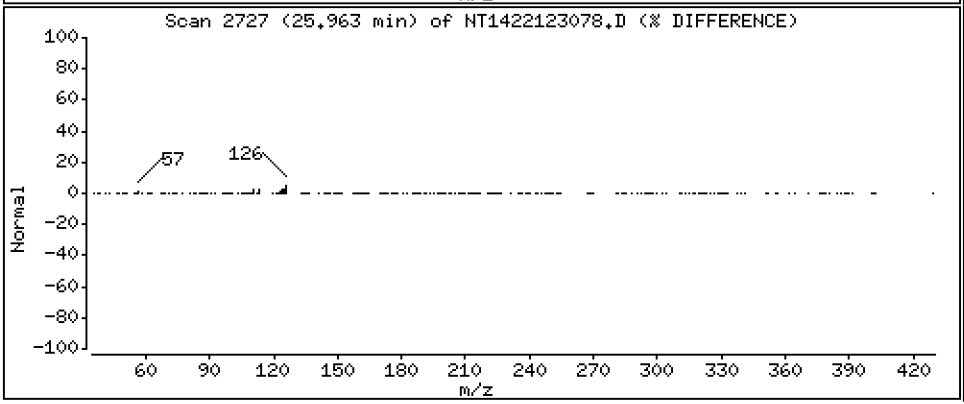
76 Benzo(a)pyrene

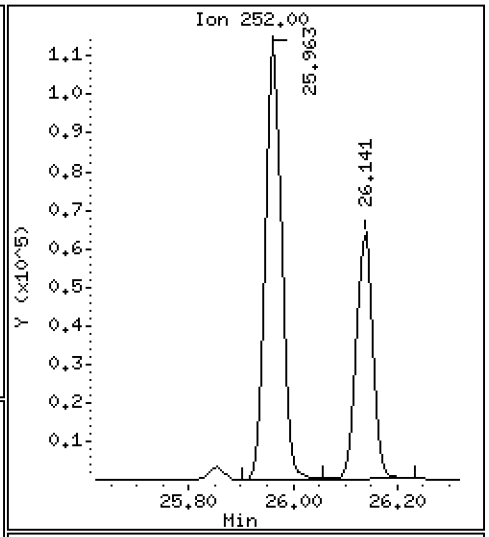
Concentration: 5.033 ug/mL

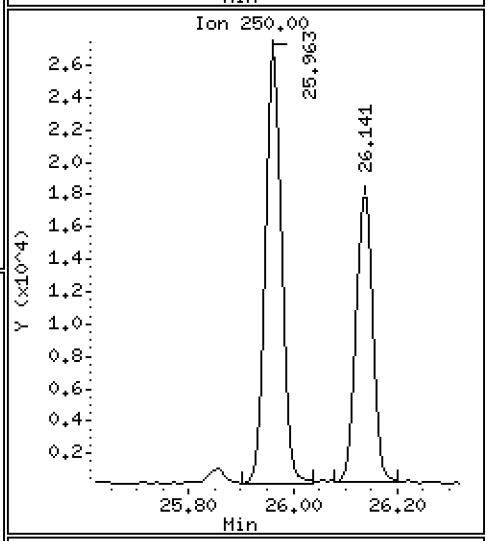


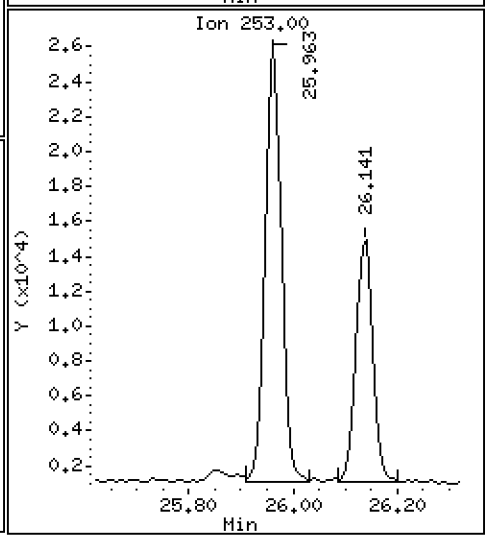












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

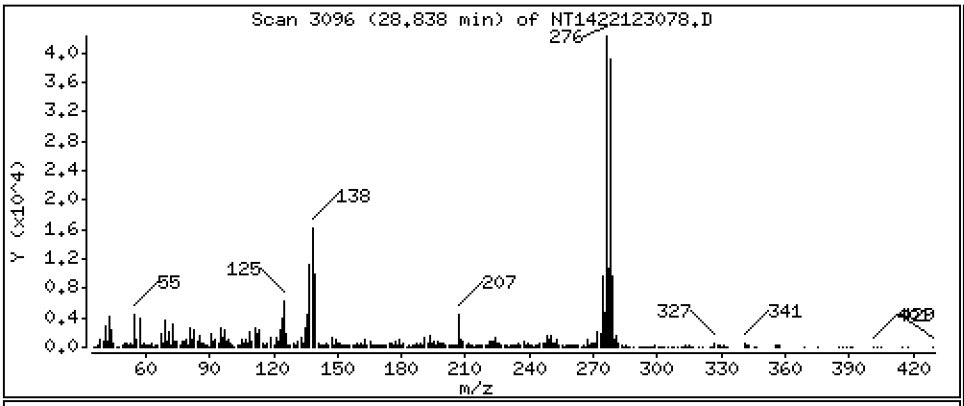
Operator: VTS

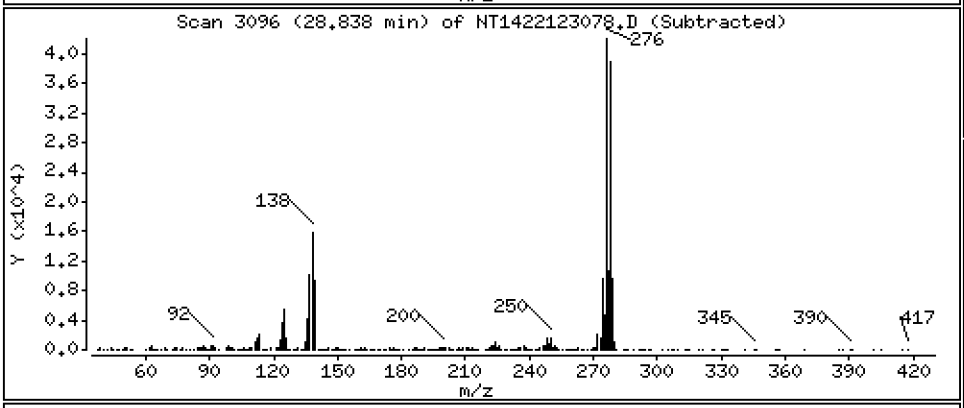
Column phase: ZB-5msi

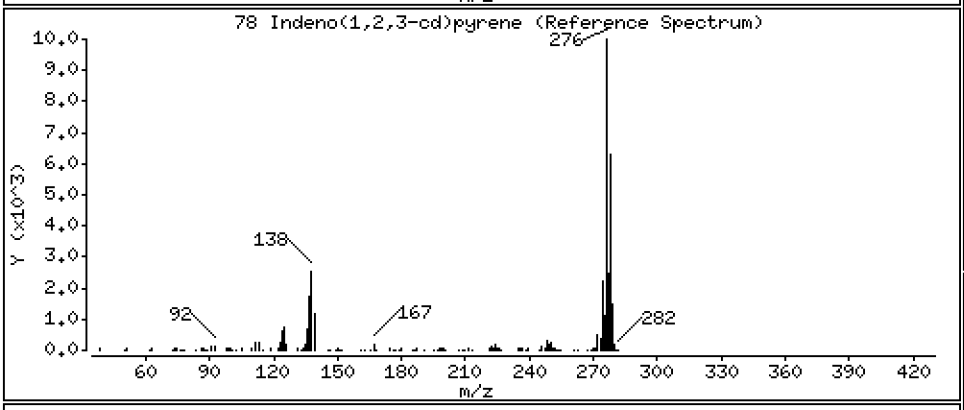
Column diameter: 0.25

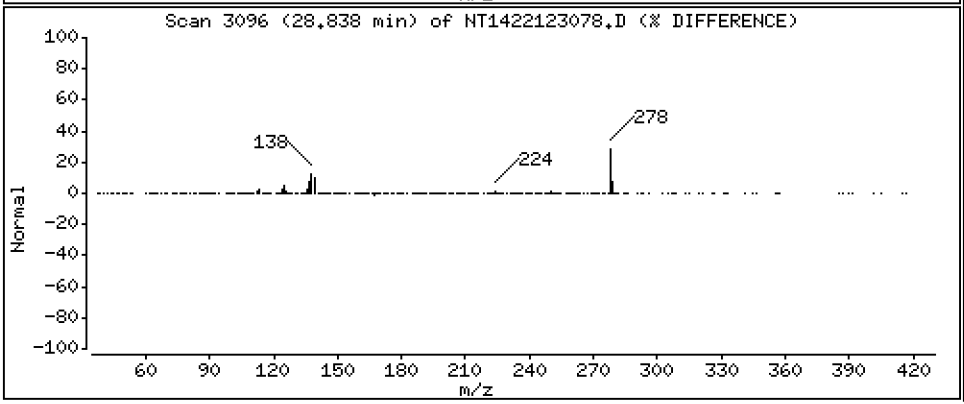
78 Indeno(1,2,3-cd)pyrene

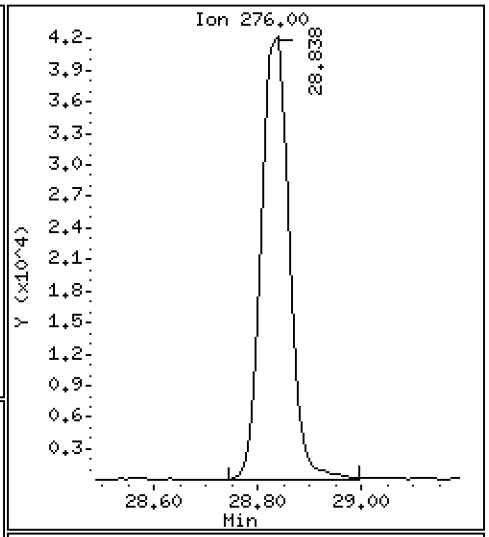
Concentration: 2.904 ug/mL

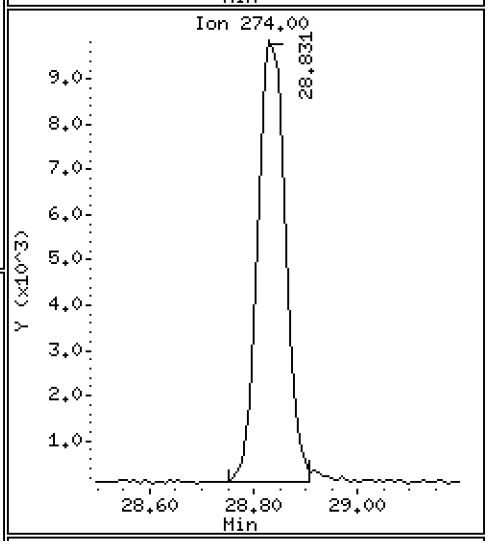


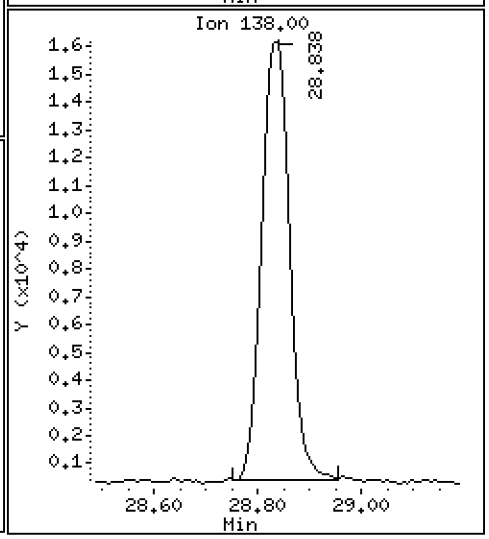












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

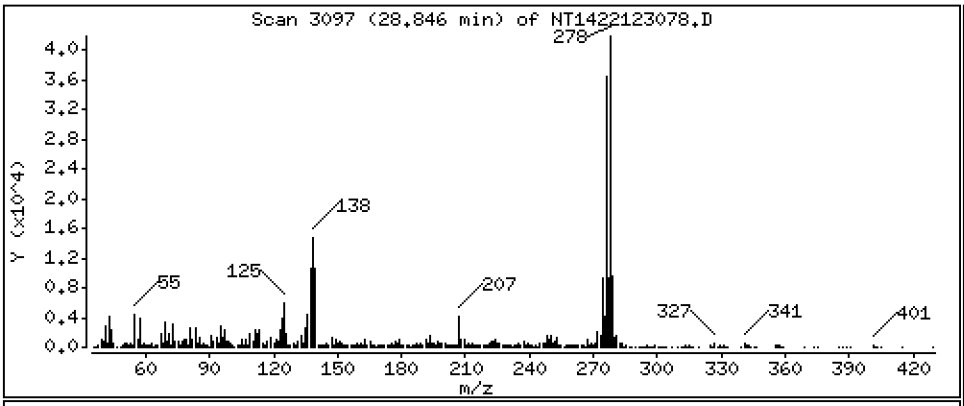
Operator: VTS

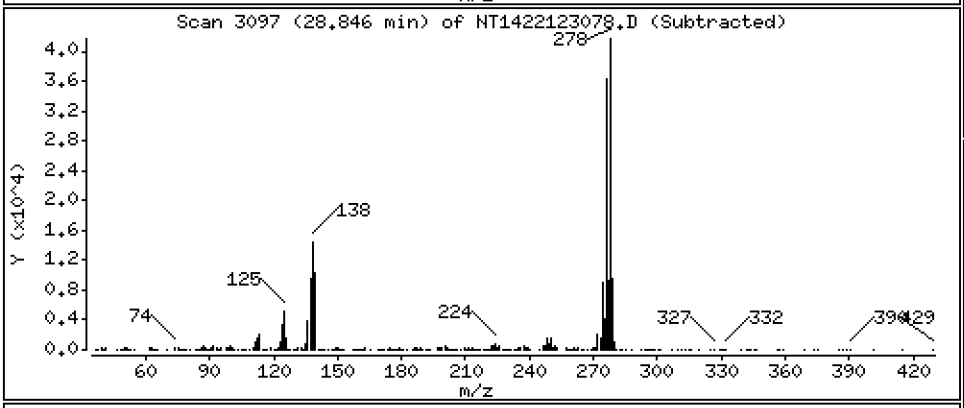
Column phase: ZB-5msi

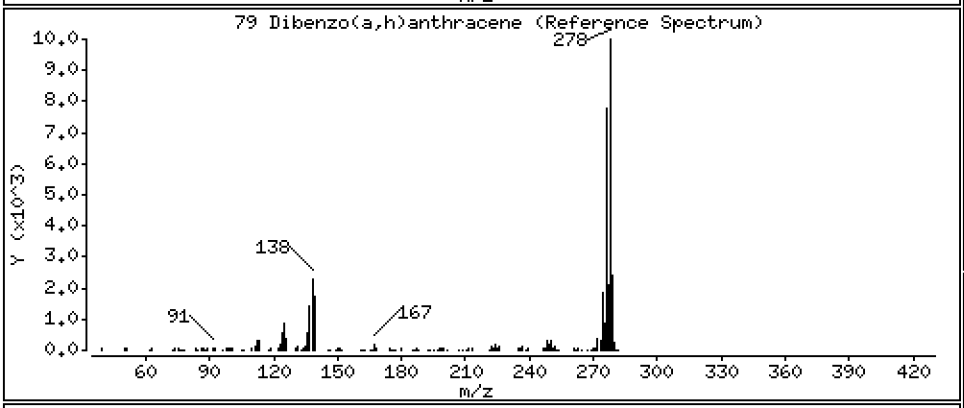
Column diameter: 0.25

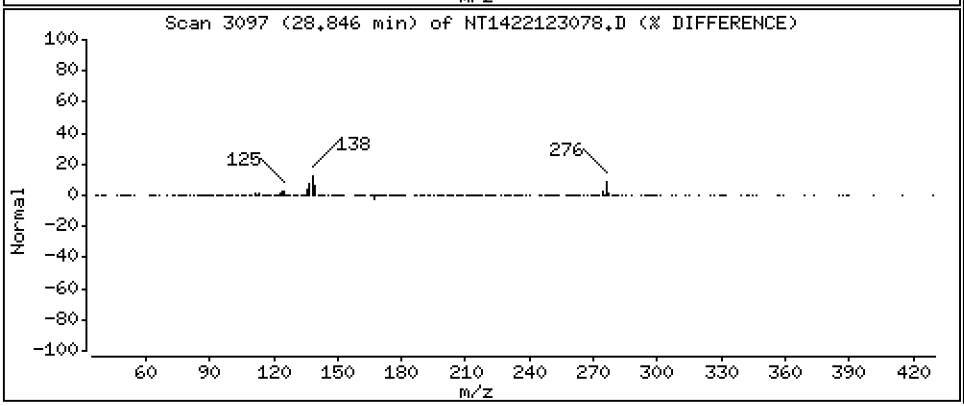
79 Dibenzo(a,h)anthracene

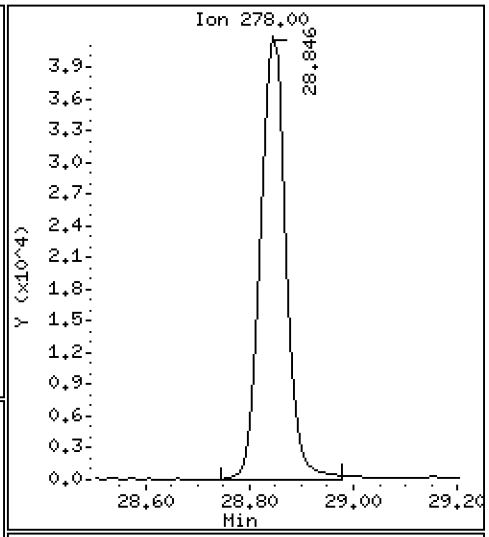
Concentration: 3.054 ug/mL

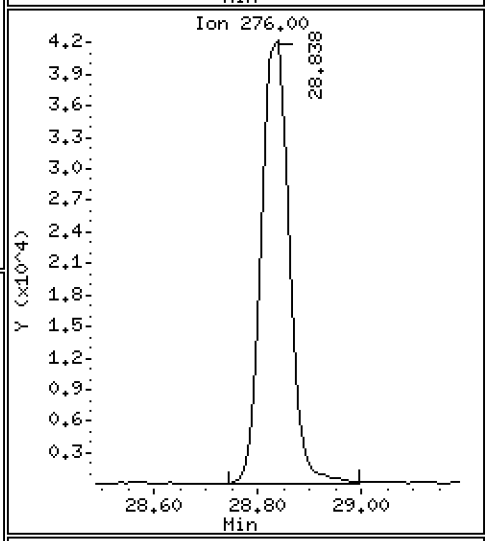


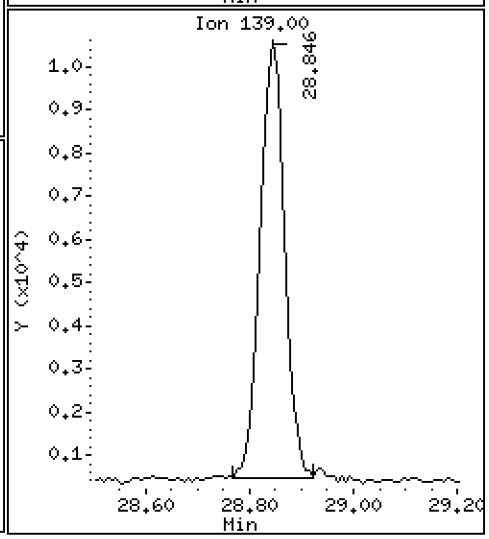












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123078.D

Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

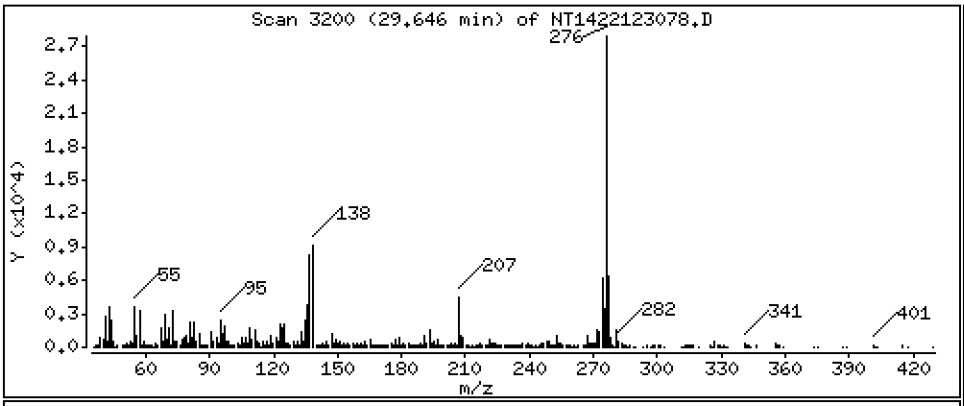
Operator: VTS

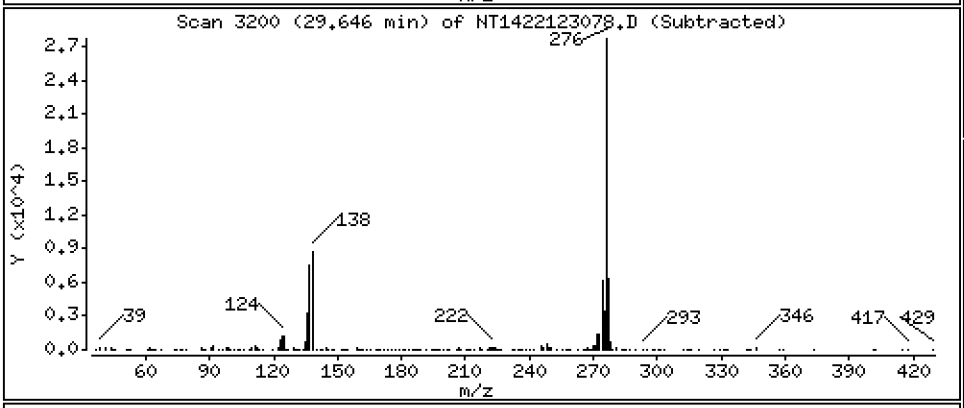
Column phase: ZB-5msi

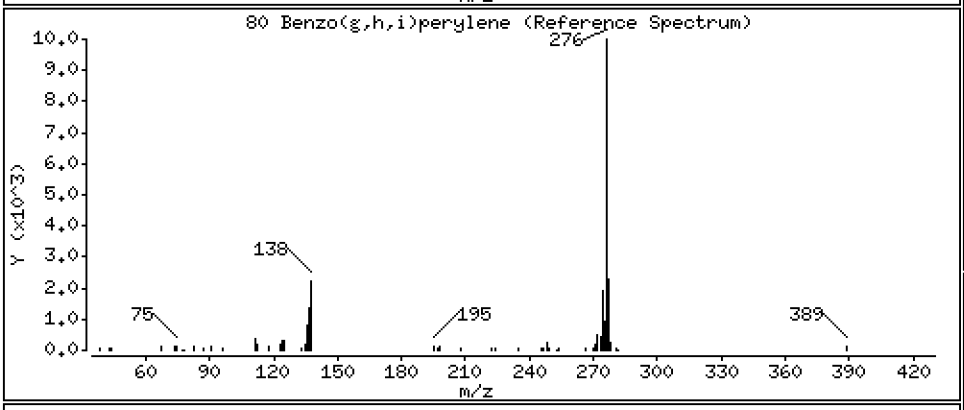
Column diameter: 0.25

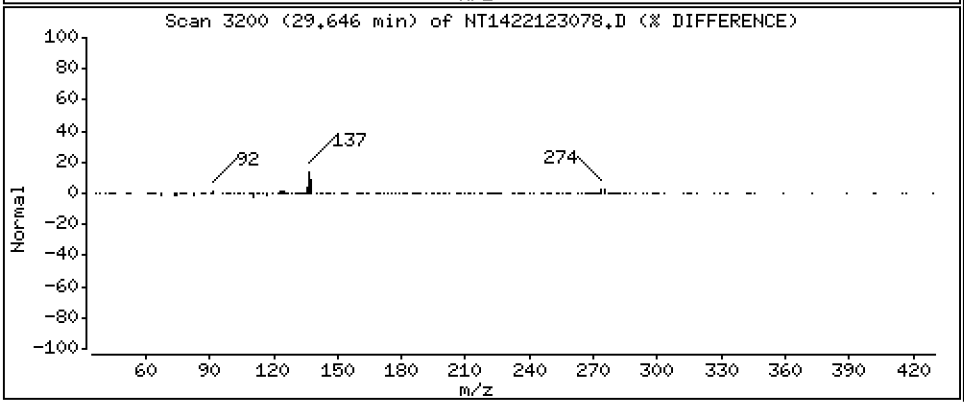
80 Benzo(g,h,i)perylene

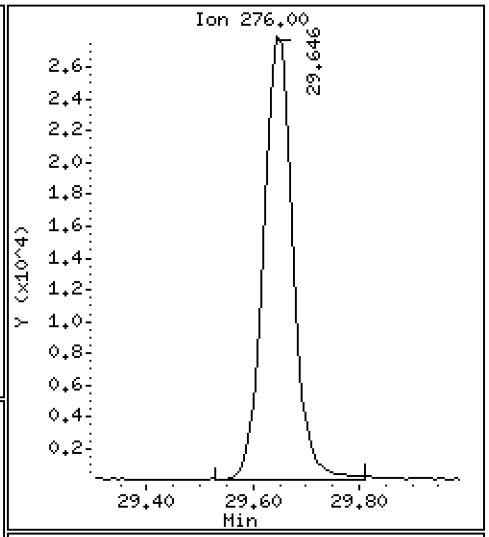
Concentration: 2.369 ug/mL

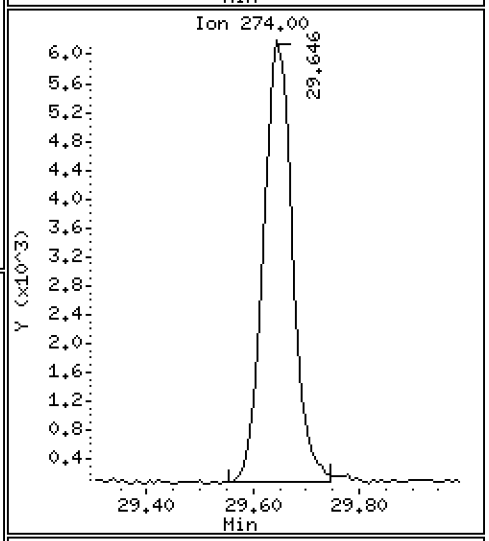


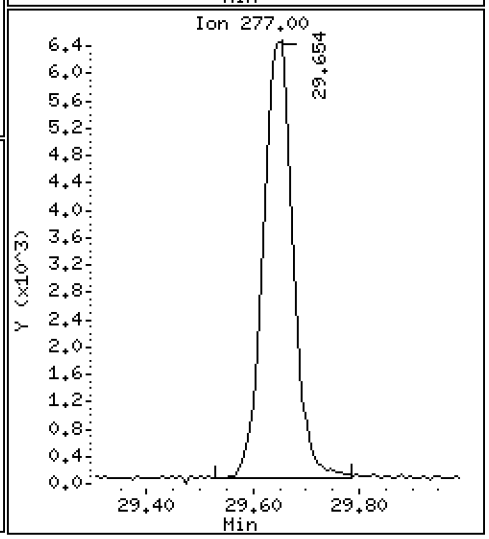












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

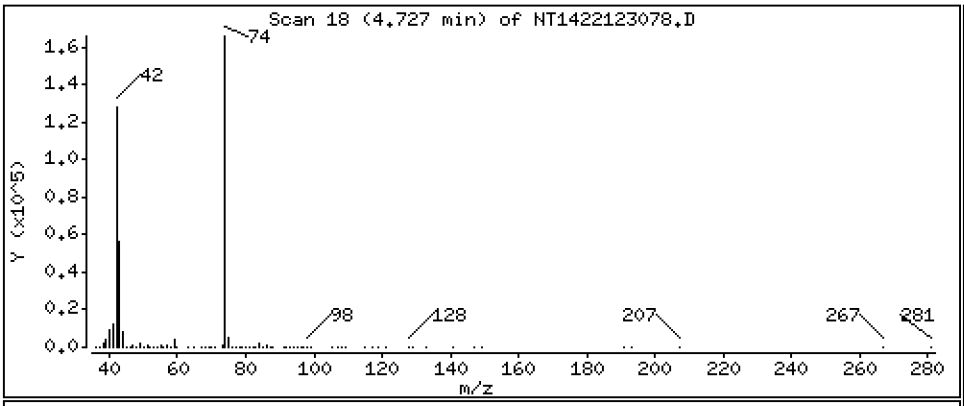
Operator: VTS

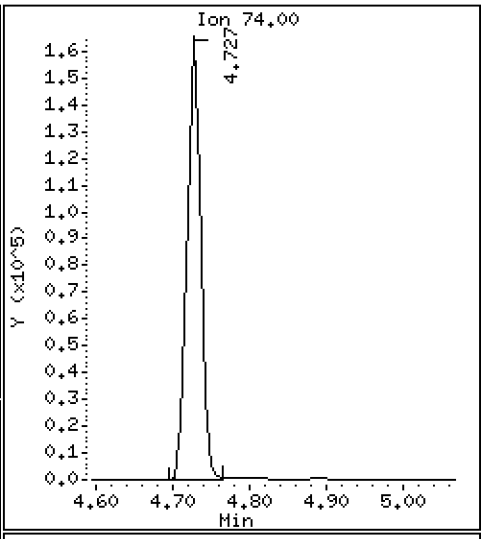
Column phase: ZB-5msi

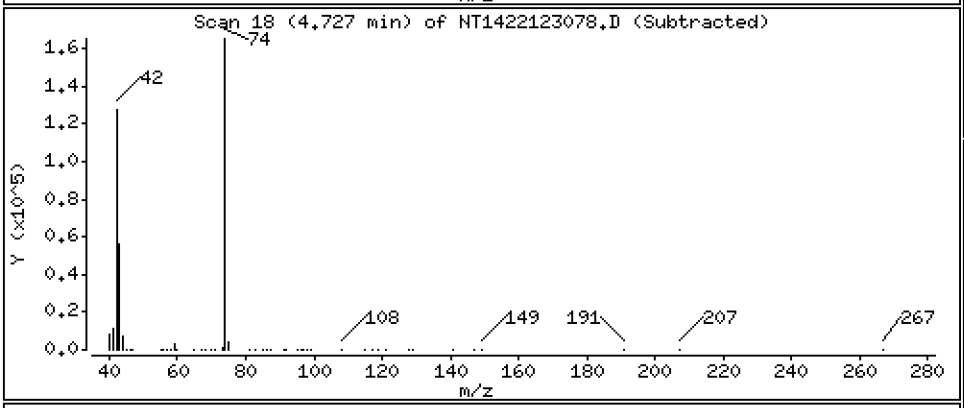
Column diameter: 0.25

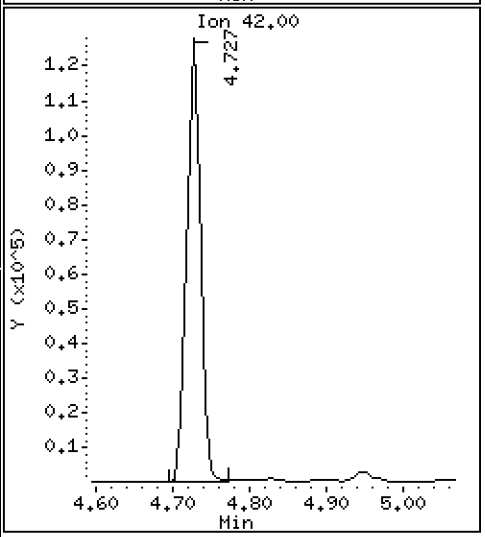
90 N-Nitrosodimethylamine

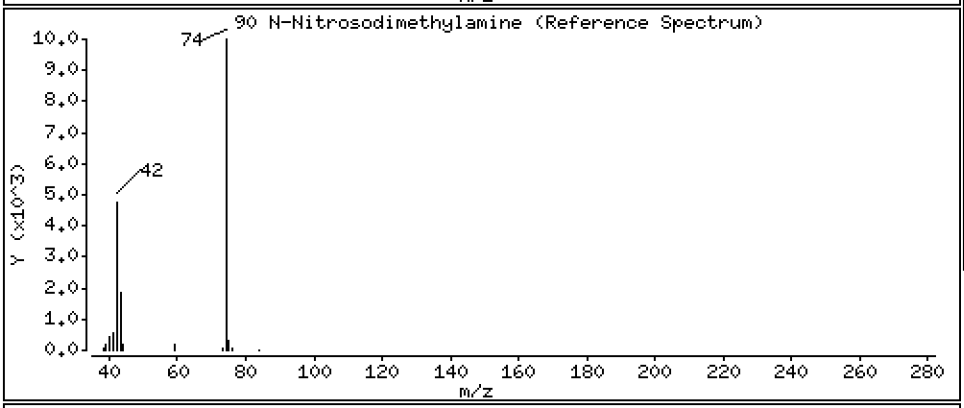
Concentration: 10.89 ug/mL

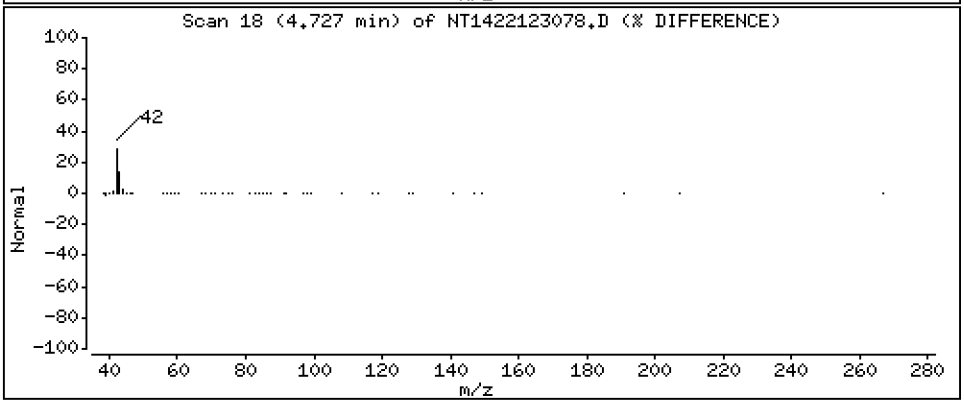












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123078.D

Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

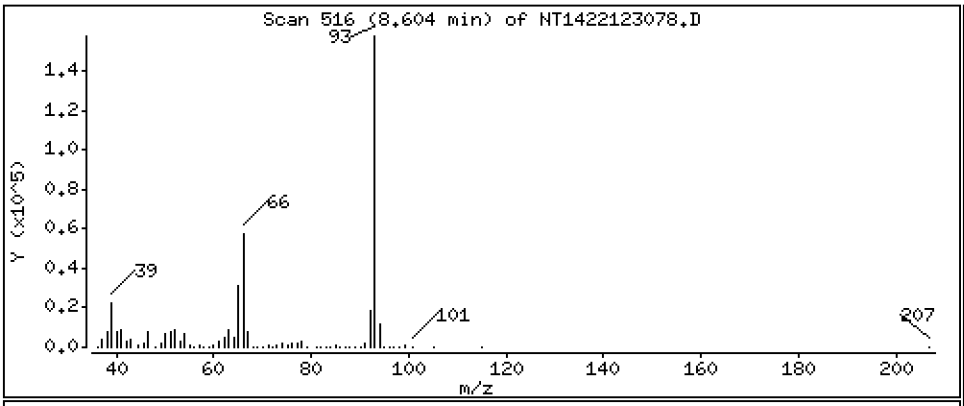
Operator: VTS

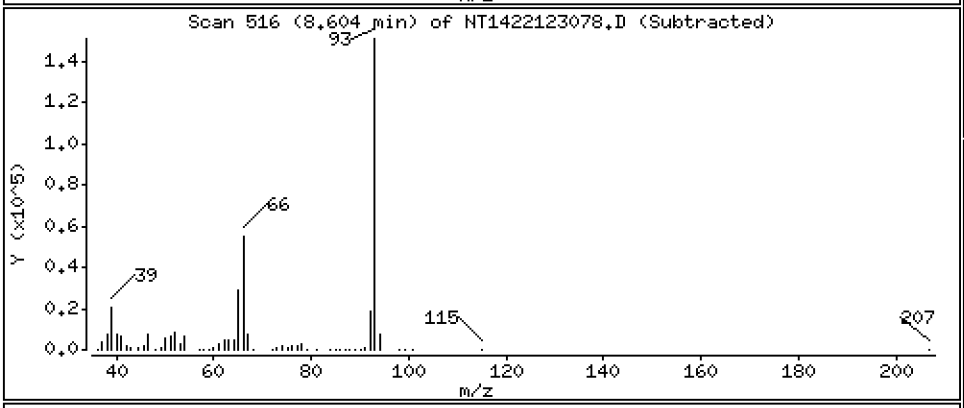
Column phase: ZB-5msi

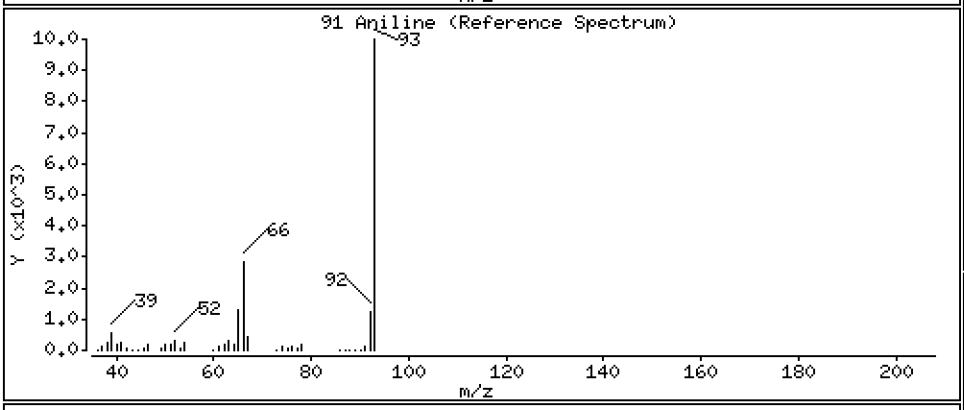
Column diameter: 0.25

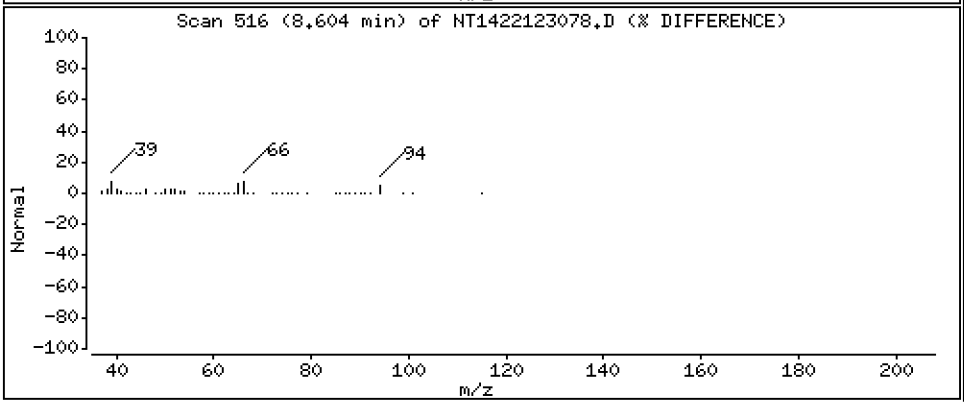
91 Aniline

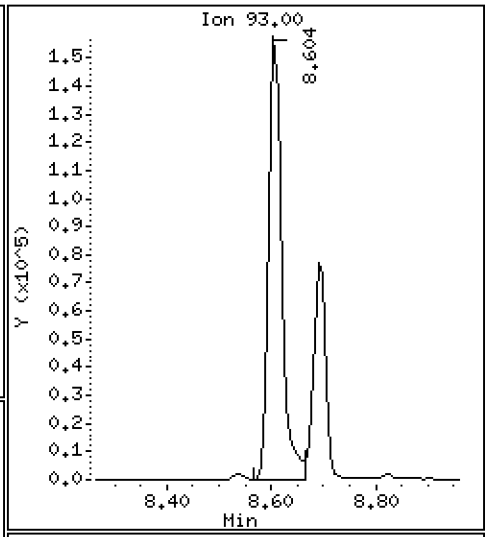
Concentration: 7.077 ug/mL

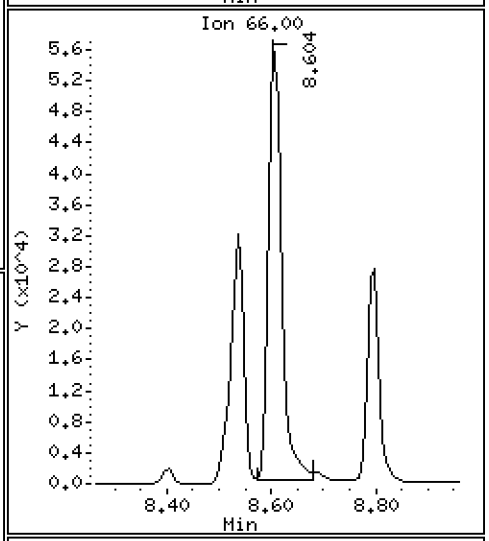


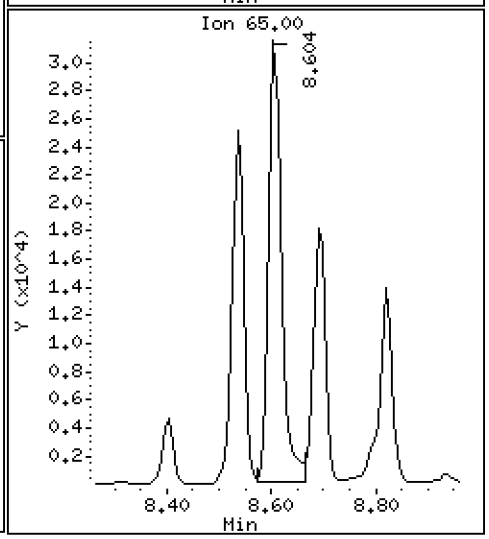












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123078.D

Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

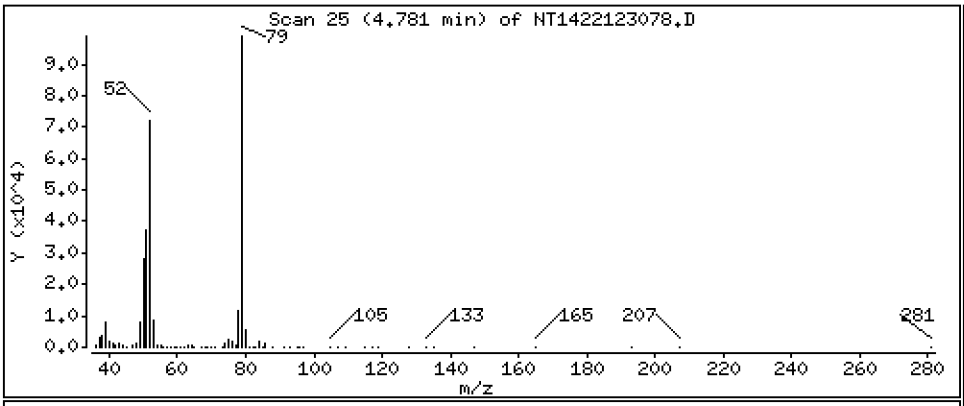
Operator: VTS

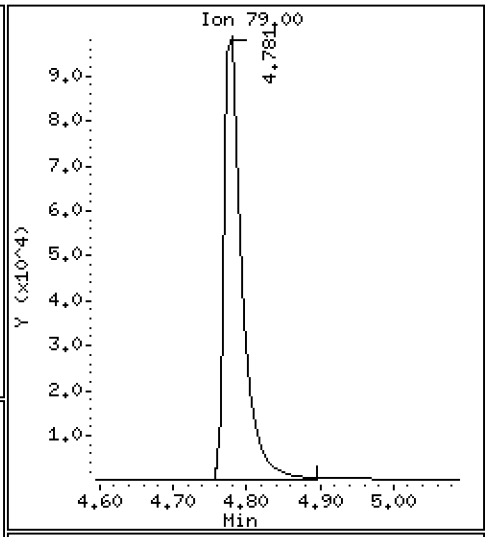
Column phase: ZB-5msi

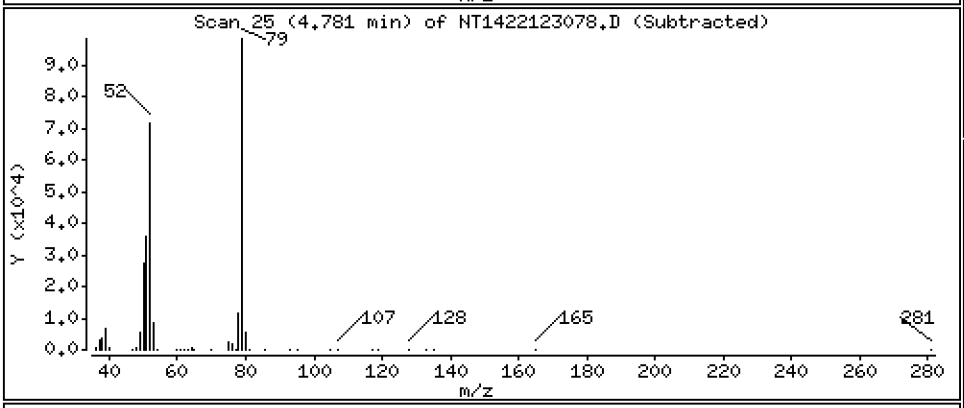
Column diameter: 0.25

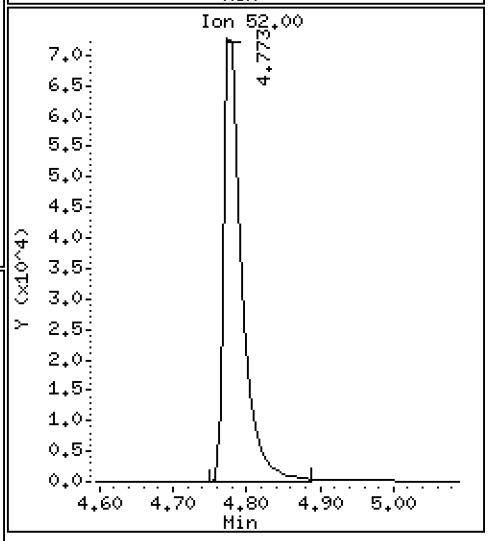
103 Pyridine

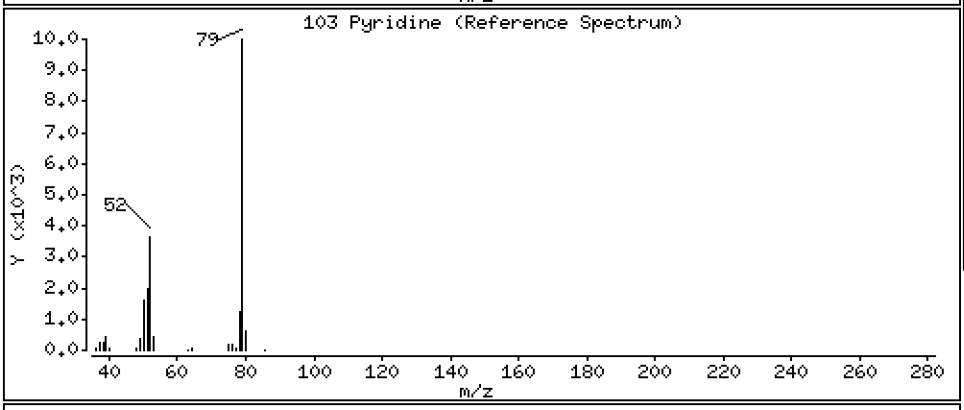
Concentration: 2.824 ug/mL

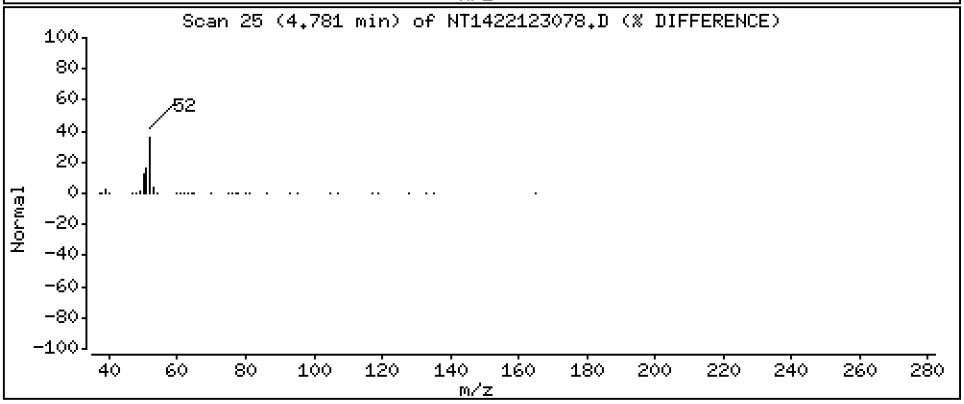












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123078.D

Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

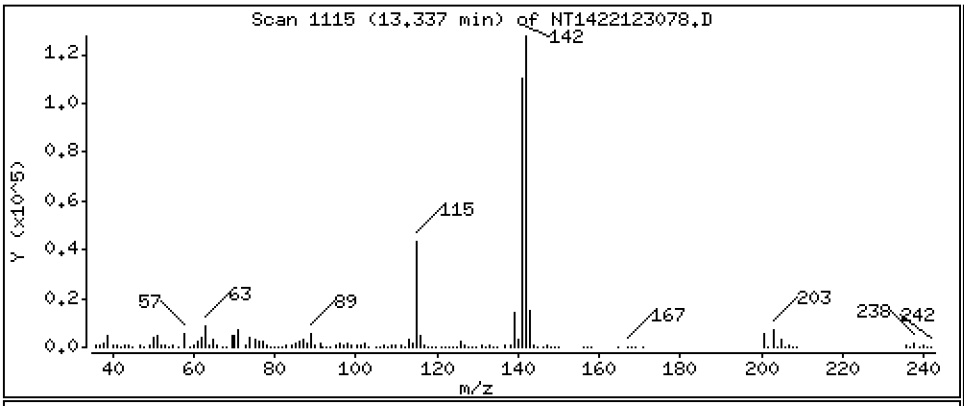
Operator: VTS

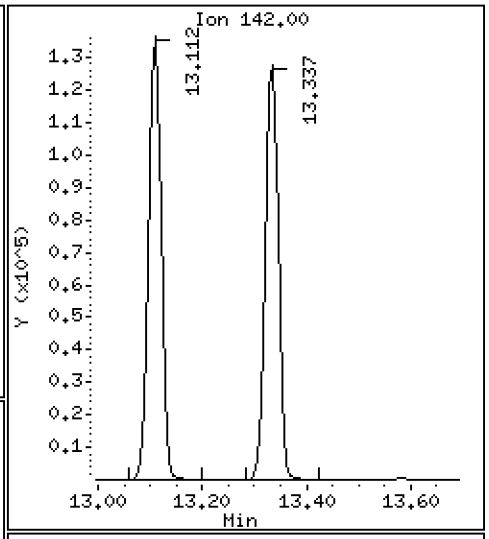
Column phase: ZB-5msi

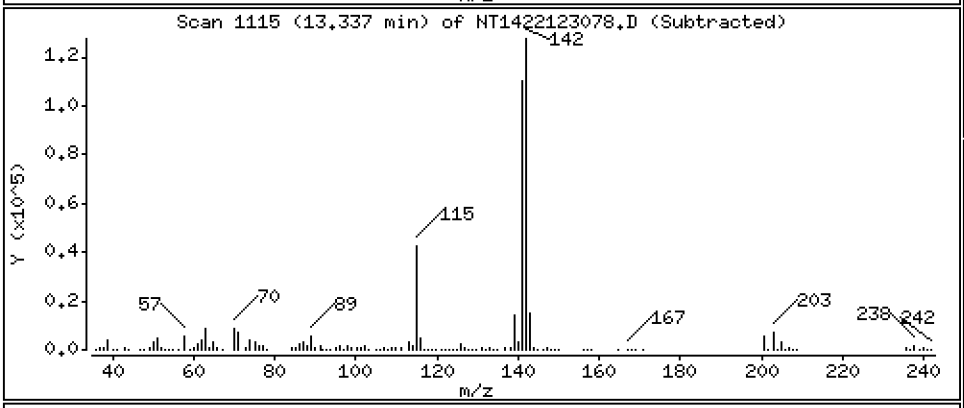
Column diameter: 0.25

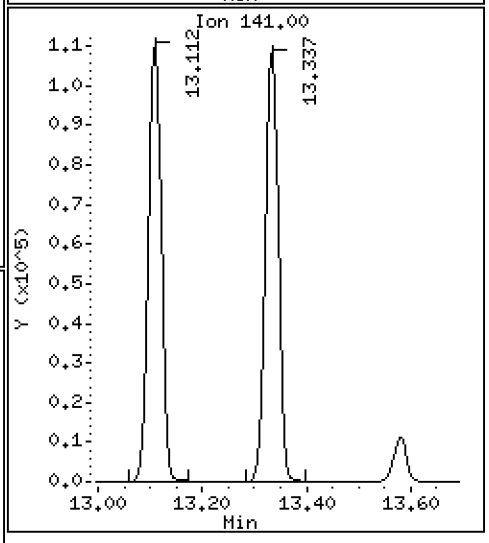
105 1-methylnaphthalene

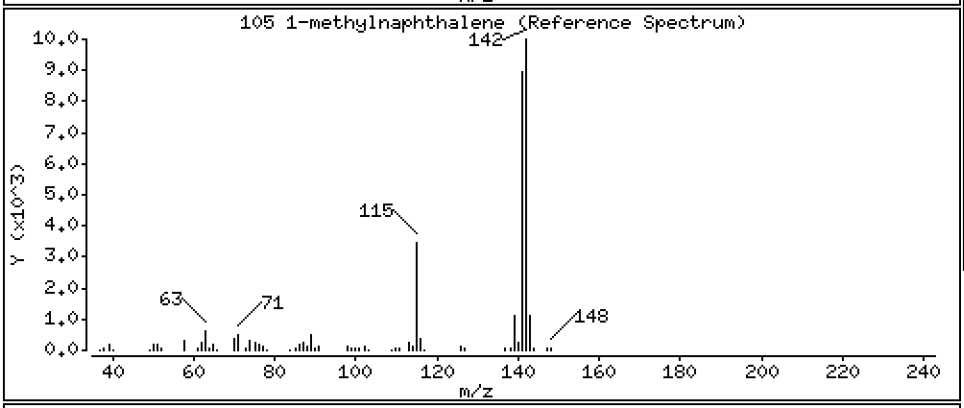
Concentration: 4.013 ug/mL

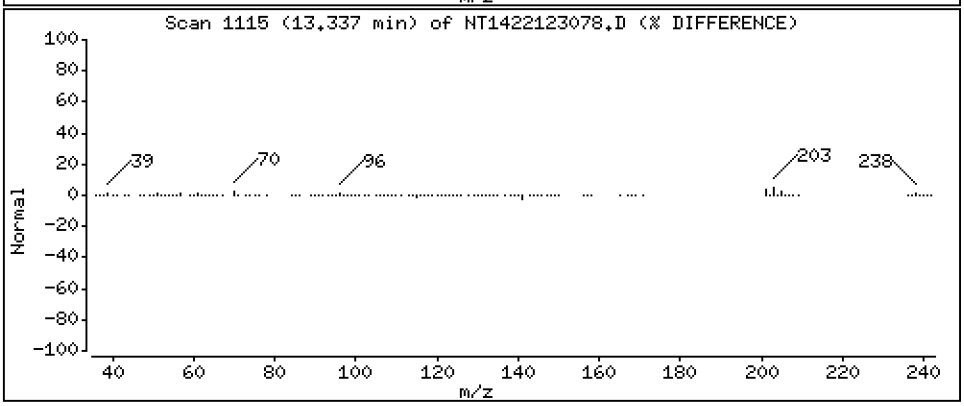












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

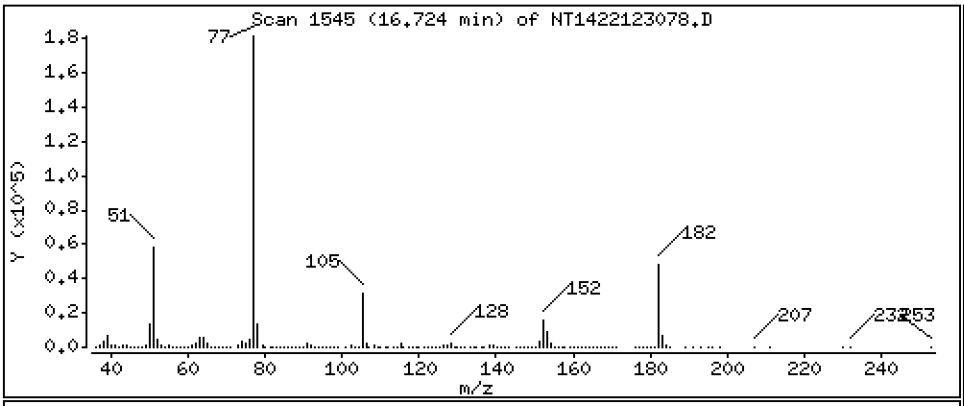
Operator: VTS

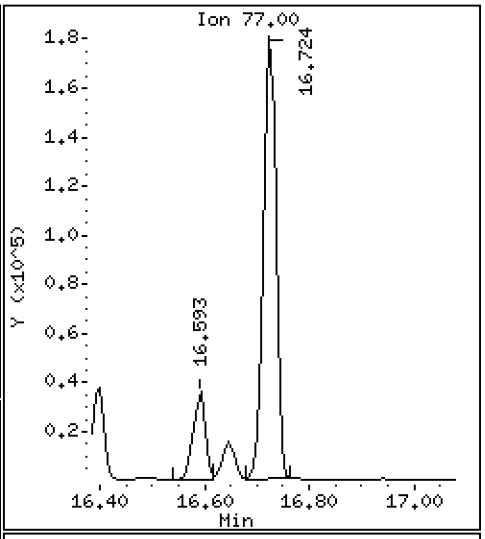
Column phase: ZB-5msi

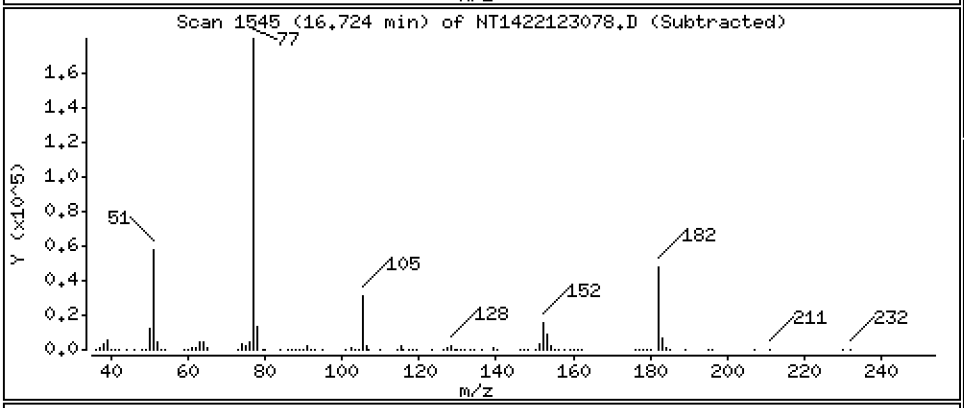
Column diameter: 0.25

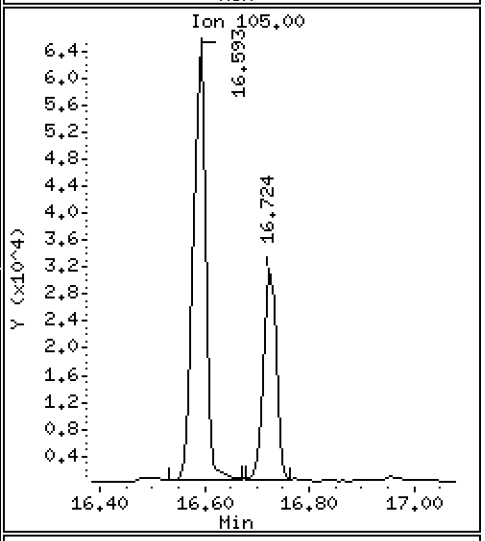
111 Azobenzene (1,2-DP-Hydrazine)

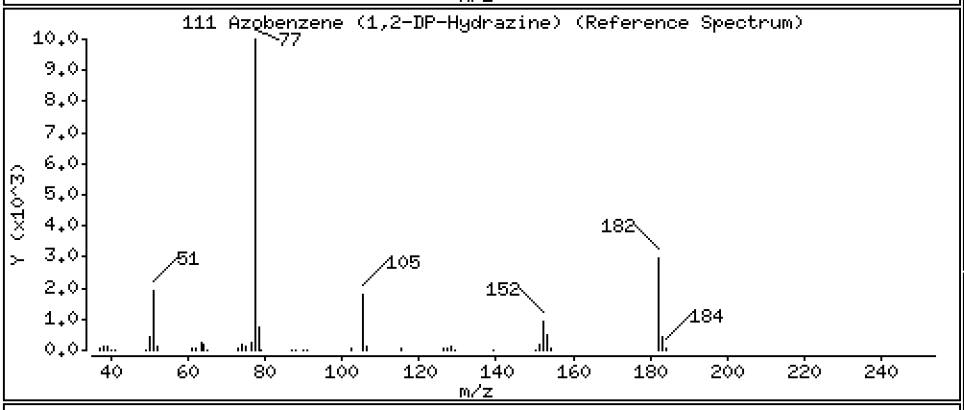
Concentration: 4.836 ug/mL

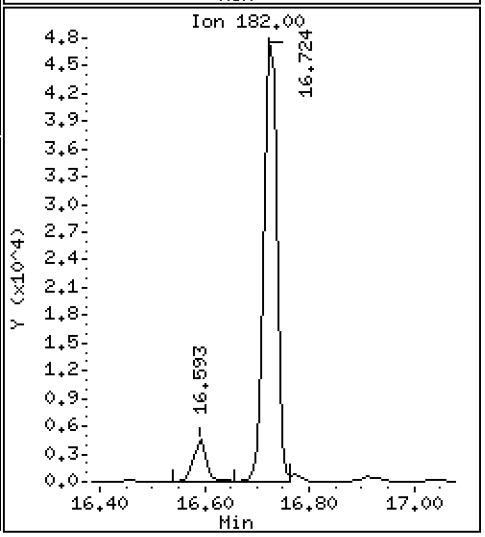


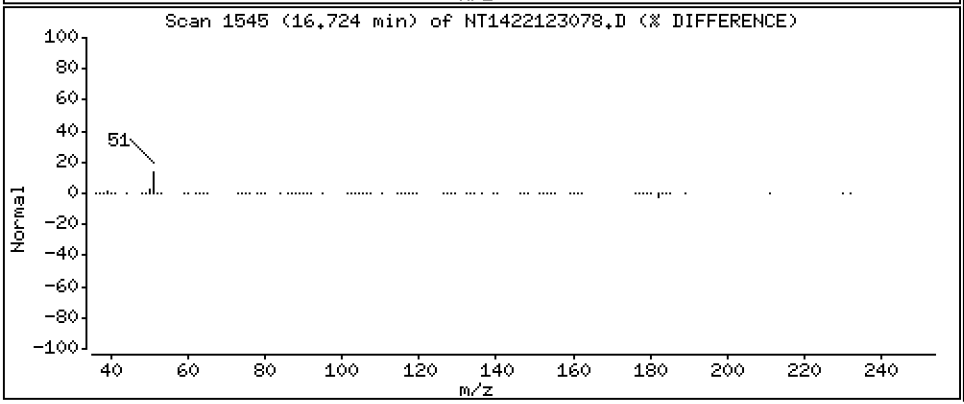












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123078.D

Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

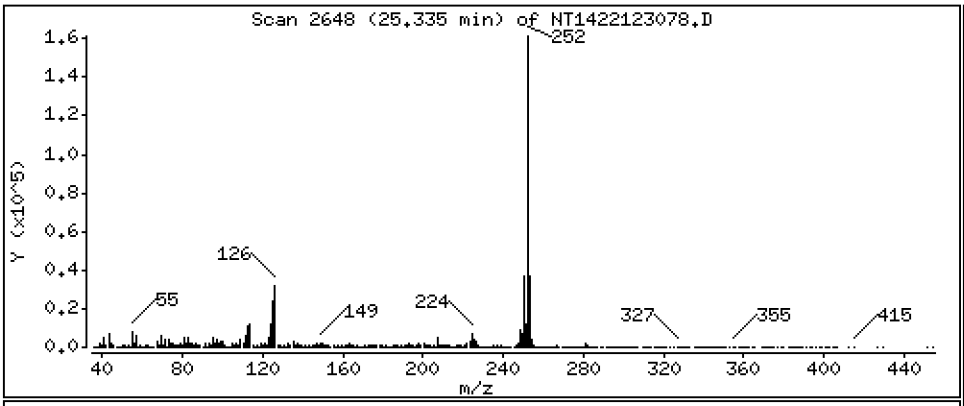
Operator: VTS

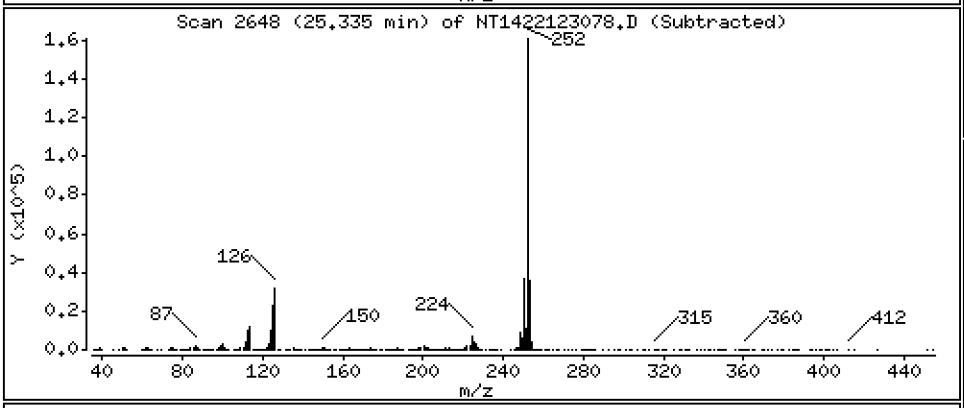
Column phase: ZB-5msi

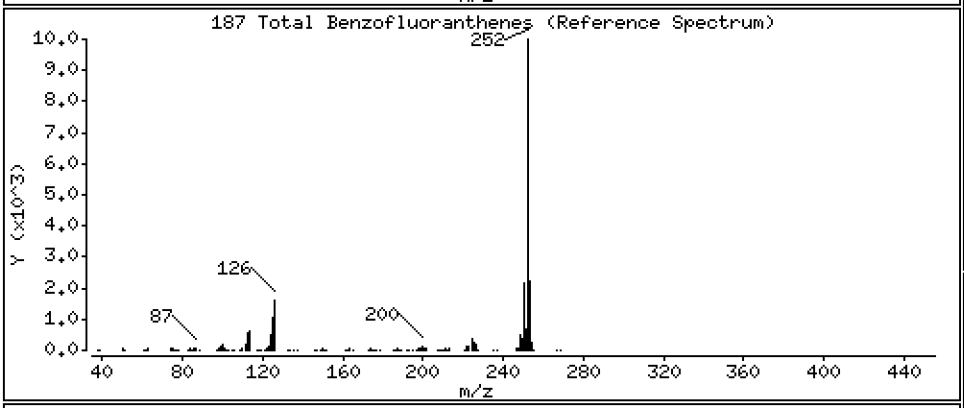
Column diameter: 0.25

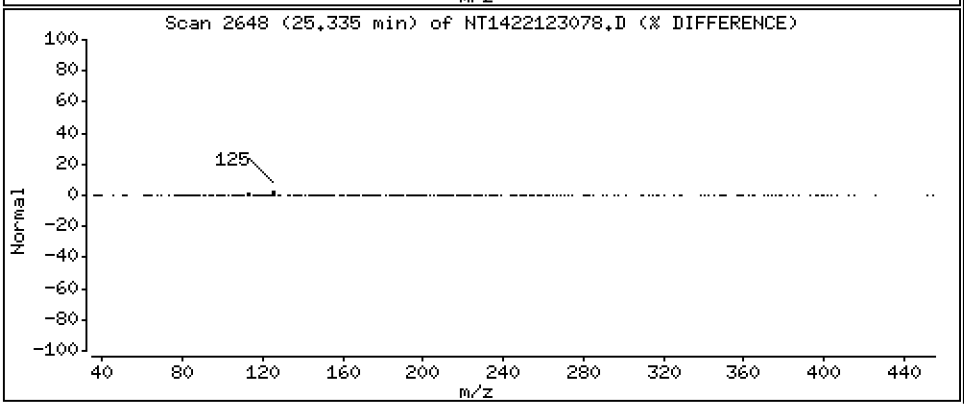
187 Total Benzofluoranthenes

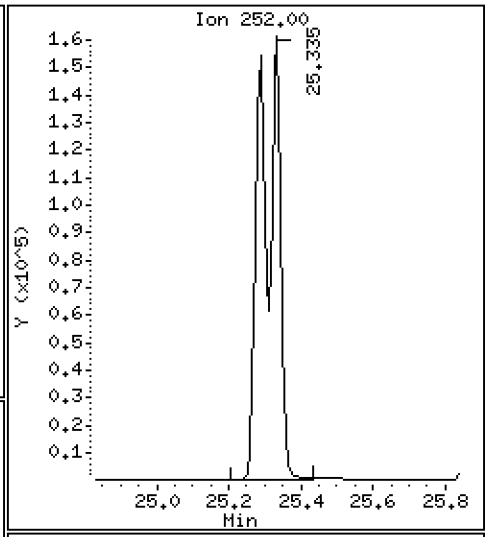
Concentration: 10.60 ug/mL

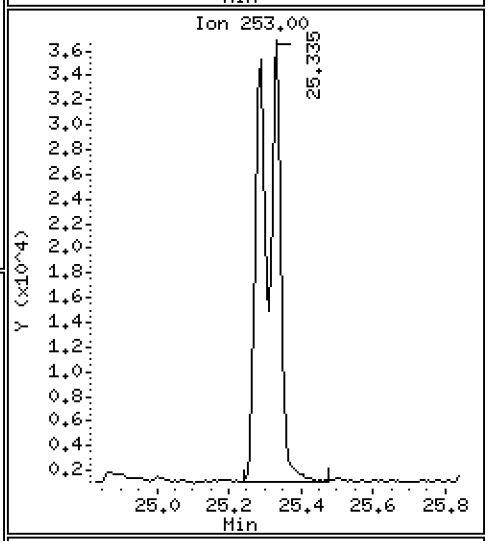


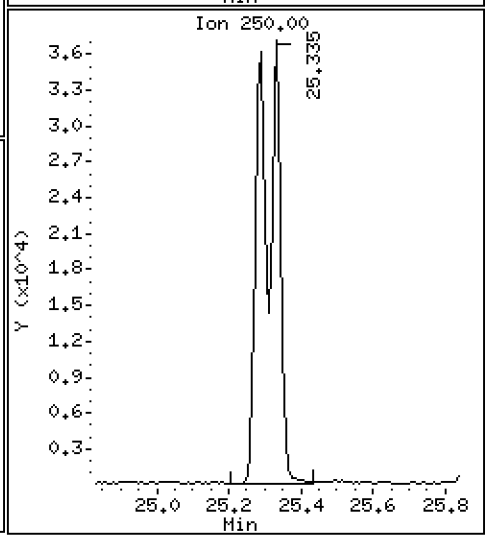












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Date : 01-JAN-2023 06:41

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MS1

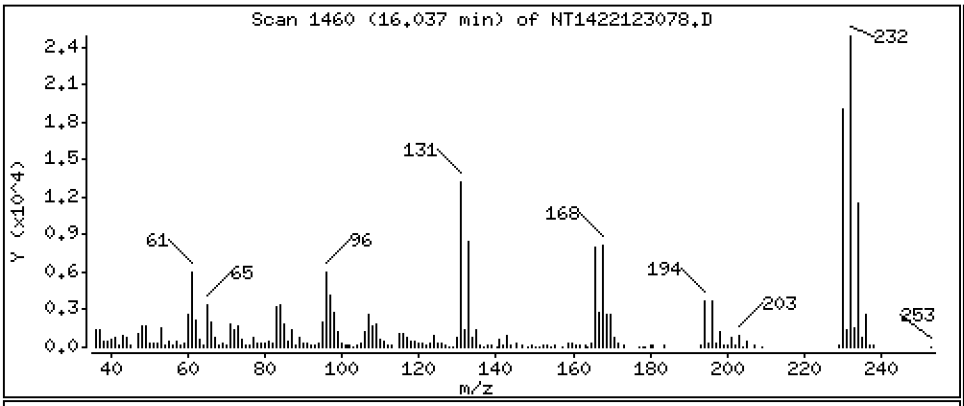
Operator: VTS

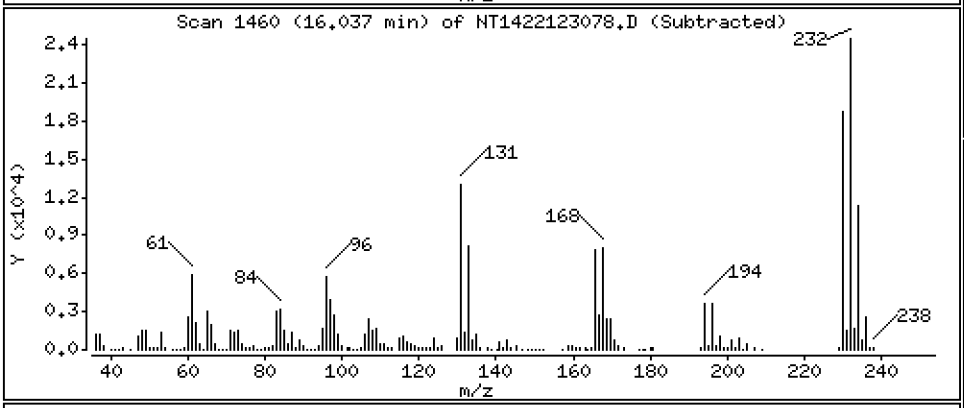
Column phase: ZB-5msi

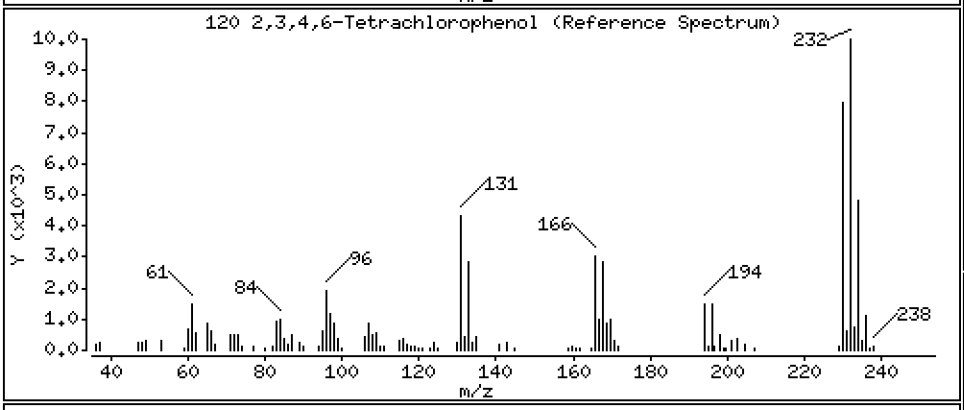
Column diameter: 0.25

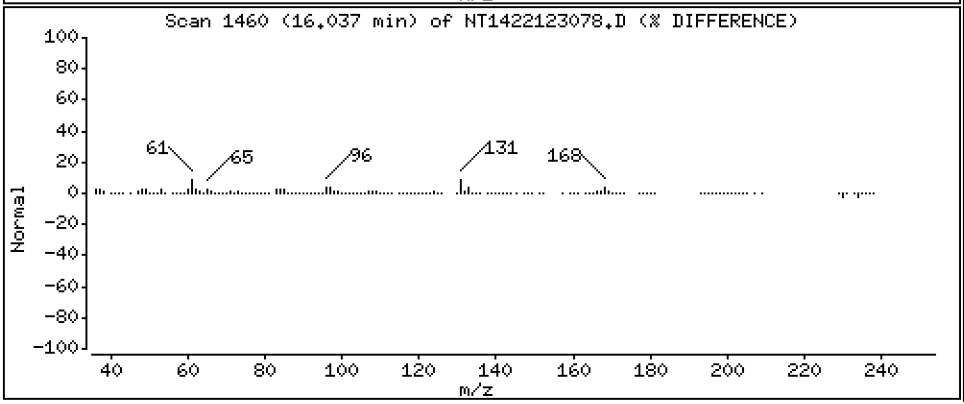
120 2,3,4,6-Tetrachlorophenol

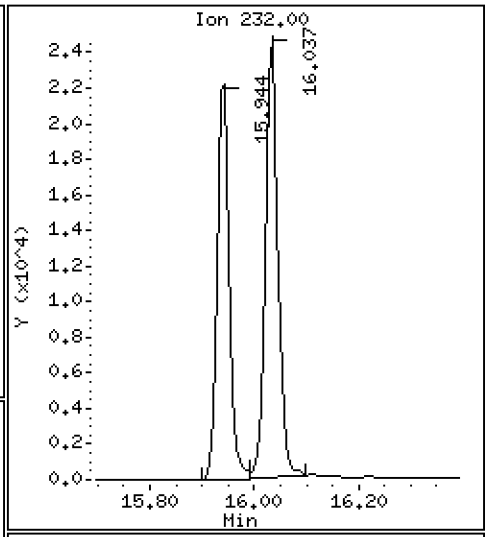
Concentration: 3.540 ug/mL

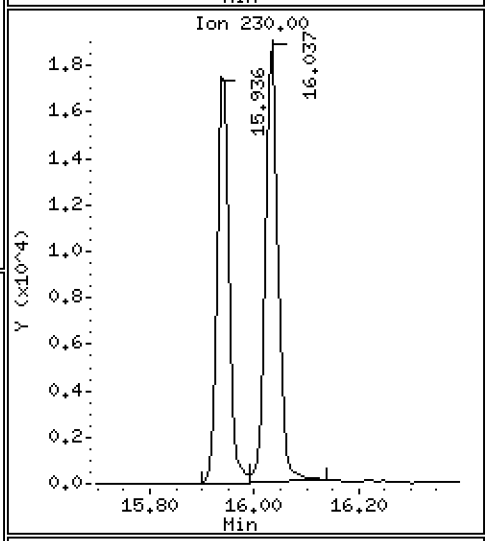


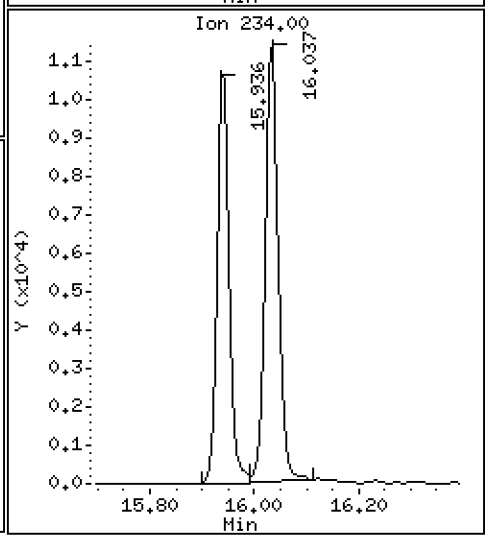












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Inj Date : 01-JAN-2023 06:41 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : BKL0193-MS1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 49
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.927	6.919	(0.756)	155599	5.76265	5.763
$	2 Phenol-d5	99	8.511	8.519	(0.929)	201103	6.02669	6.027
	3 Phenol	94	8.534	8.542	(0.932)	132649	3.49847	3.498
$	5 2-Chlorophenol-d4	132	8.797	8.797	(0.960)	172177	6.14380	6.144
	4 Bis(2-Chloroethyl)ether	93	8.689	8.696	(0.949)	116147	4.44680	4.447
	6 2-Chlorophenol	128	8.820	8.827	(0.963)	110606	3.59370	3.594
	7 1,3-Dichlorobenzene	146	9.091	9.098	(0.992)	119913	3.67420	3.674
*	8 1,4-Dichlorobenzene-d4	152	9.160	9.160	(1.000)	84281	4.00000	
	9 1,4-Dichlorobenzene	146	9.191	9.191	(1.003)	117735	3.80790	3.808
$	10 1,2-Dichlorobenzene-d4	152	9.517	9.525	(1.039)	71066	3.71022	3.710
	12 1,2-Dichlorobenzene	146	9.548	9.556	(1.042)	115007	3.79281	3.793
	11 Benzyl alcohol	108	9.432	9.440	(1.030)	62794	3.72012	3.720
	14 2,2'-oxybis(1-Chloropropane)	121	9.727	9.735	(1.062)	36821	4.18840	4.188
	13 2-Methylphenol	108	9.657	9.665	(1.054)	90676	3.29112	3.291
	17 Hexachloroethane	117	10.146	10.154	(1.108)	43977	3.86729	3.867
	16 N-Nitroso-di-n-propylamine	70	9.983	9.998	(1.090)	75059	4.47214	4.472
	15 4-Methylphenol	108	9.937	9.936	(1.085)	102990	3.54346	3.543
$	18 Nitrobenzene-d5	82	10.255	10.262	(0.879)	114624	4.46145	4.461
	19 Nitrobenzene	77	10.294	10.301	(0.882)	110465	4.32929	4.329
	20 Isophorone	82	10.744	10.751	(0.921)	213781	6.57384	6.574
	21 2-Nitrophenol	139	10.930	10.937	(0.937)	63387	3.93274	3.933
	22 2,4-Dimethylphenol	107	10.984	10.992	(0.942)	293385	11.0169	11.02
	23 Bis(2-Chloroethoxy)methane	93	11.178	11.186	(0.958)	120406	4.75945	4.759
	24 Benzoic acid	105	11.162	11.209	(0.957)	225393	13.4907	13.49
	25 2,4-Dichlorophenol	162	11.387	11.395	(0.976)	334559	14.9038	14.90
	26 1,2,4-Trichlorobenzene	180	11.573	11.581	(0.992)	91751	3.78008	3.780
*	27 Naphthalene-d8	136	11.666	11.673	(1.000)	304250	4.00000	
	28 Naphthalene	128	11.704	11.712	(1.003)	311302	4.15764	4.158
	29 4-Chloroaniline	127	11.828	11.835	(1.014)	230254	7.45687	7.457
	30 Hexachlorobutadiene	225	12.075	12.075	(1.035)	48828	4.05452	4.055
	31 4-Chloro-3-methylphenol	107	12.802	12.810	(1.097)	336475	15.8837	15.88
	32 2-Methylnaphthalene	142	13.112	13.120	(1.124)	218142	3.97180	3.972
	33 Hexachlorocyclopentadiene	237	13.584	13.584	(0.888)	119084	9.97135	9.971

		QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
34	2,4,6-Trichlorophenol	196	13.739	13.739	(0.898)	213384	16.1819	16.18
35	2,4,5-Trichlorophenol	196	13.808	13.816	(0.902)	225354	14.8074	14.81
$ 36	2-Fluorobiphenyl	172	13.894	13.901	(0.908)	229830	4.32673	4.327
37	2-Chloronaphthalene	162	14.110	14.118	(0.922)	190364	4.21264	4.213
38	2-Nitroaniline	65	14.366	14.373	(0.939)	212580	17.8933	17.89
39	Dimethylphthalate	163	14.791	14.799	(0.967)	215785	4.84318	4.843
40	Acenaphthylene	152	14.985	14.993	(0.979)	303871	4.41013	4.410
41	2,6-Dinitrotoluene	165	14.931	14.938	(0.976)	168804	16.7881	16.79
* 42	Acenaphthene-d10	164	15.302	15.310	(1.000)	157987	4.00000	
43	3-Nitroaniline	138	15.217	15.225	(0.994)	145687	11.9210	11.92
44	Acenaphthene	153	15.364	15.371	(1.004)	193639	4.53104	4.531
45	2,4-Dinitrophenol	184	15.433	15.441	(1.009)	110678	12.5940	12.59
46	Dibenzofuran	168	15.696	15.704	(1.026)	272269	4.24841	4.248
47	4-Nitrophenol	109	15.549	15.557	(1.016)	87171	14.4104	14.41
48	2,4-Dinitrotoluene	165	15.750	15.750	(1.029)	220943	16.0154	16.02
50	Diethylphthalate	149	16.261	16.268	(1.063)	352851	5.82655	5.827
49	Fluorene	166	16.407	16.423	(1.072)	329591	4.83436	4.834
51	4-Chlorophenyl-phenylether	204	16.400	16.407	(1.072)	165044	4.94471	4.945
52	4-Nitroaniline	138	16.492	16.500	(1.078)	181390	11.9866	11.99
53	4,6-Dinitro-2-methylphenol	198	16.593	16.600	(0.904)	247697	21.7595	21.76
54	N-Nitrosodiphenylamine	169	16.647	16.654	(0.907)	198030	4.47076	4.471
$ 55	2,4,6-Tribromophenol	330	16.947	16.955	(1.108)	50052	6.53096	6.531
56	4-Bromophenyl-phenylether	248	17.410	17.410	(0.949)	76545	4.56369	4.564
57	Hexachlorobenzene	284	17.727	17.734	(0.966)	76749	4.16975	4.170
58	Pentachlorophenol	266	18.083	18.090	(0.985)	86560	10.2958	10.30
* 59	Phenanthrene-d10	188	18.354	18.361	(1.000)	258132	4.00000	
60	Phenanthrene	178	18.400	18.408	(1.003)	304185	4.51966	4.520
61	Anthracene	178	18.493	18.500	(1.008)	250621	3.90069	3.901
62	Carbazole	167	18.818	18.825	(1.025)	264363	4.25619	4.256
63	Di-n-butylphthalate	149	19.607	19.614	(1.068)	392754	5.35834	5.358
64	Fluoranthene	202	20.783	20.791	(0.888)	348726	5.28929	5.289
65	Pyrene	202	21.208	21.216	(0.906)	358055	5.16521	5.165
$ 66	Terphenyl-d14	244	21.487	21.495	(0.918)	231763	4.71518	4.715
67	Butylbenzylphthalate	149	22.401	22.408	(0.957)	157346	5.89213	5.892
68	Benzo(a)anthracene	228	23.369	23.376	(0.999)	305667	4.92781	4.928
* 69	Chrysene-d12	240	23.399	23.399	(1.000)	204763	4.00000	
70	3,3'-Dichlorobenzidine	252	23.314	23.322	(0.996)	163804	8.62646	8.626
71	Chrysene	228	23.438	23.446	(1.002)	296113	5.05385	5.054
72	bis(2-Ethylhexyl)phthalate	149	23.423	23.430	(0.959)	234296	5.60510	5.605
* 134	Di-n-octylphthalate-d4	153	24.421	24.421	(1.000)	376384	4.00000	
73	Di-n-octylphthalate	149	24.429	24.429	(1.000)	413233	4.57378	4.574
74	Benzo(b)fluoranthene	252	25.288	25.296	(0.970)	313159	5.47022	5.470
75	Benzo(k)fluoranthene	252	25.335	25.335	(0.971)	300118	5.15074	5.151
76	Benzo(a)pyrene	252	25.962	25.970	(0.996)	239521	5.03299	5.033
* 77	Perylene-d12	264	26.078	26.086	(1.000)	182161	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.838	28.838	(1.106)	157121	2.90430	2.904
79	Dibenzo(a,h)anthracene	278	28.846	28.853	(1.106)	140421	3.05446	3.054
80	Benzo(g,h,i)perylene	276	29.646	29.653	(1.137)	107357	2.36884	2.369
90	N-Nitrosodimethylamine	74	4.726	4.718	(0.516)	202455	10.8870	10.89
91	Aniline	93	8.604	8.611	(0.939)	261260	7.07667	7.077
93	Benzidine	184	Compound Not Detected.					
103	Pyridine	79	4.780	4.741	(0.522)	166882	2.82420	2.824
105	1-methylnaphthalene	142	13.336	13.344	(1.143)	211775	4.01307	4.013
111	Azobenzene (1,2-DP-Hydrazine)	77	16.724	16.731	(1.093)	283703	4.83563	4.836

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.335	25.335	(0.971)	586444	10.5958	10.60
120 2,3,4,6-Tetrachlorophenol	232	16.036	16.044	(1.048)	40522	3.53956	3.540

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123078.D
Lab Smp Id: BKL0193-MS1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Misc Info:

Calibration Date: 31-DEC-2022
Calibration Time: 23:30
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138755	69378	277510	84281	-39.26
27 Naphthalene-d8	501723	250862	1003446	304250	-39.36
42 Acenaphthene-d10	275234	137617	550468	157987	-42.60
59 Phenanthrene-d10	440085	220043	880170	258132	-41.34
69 Chrysene-d12	384795	192398	769590	204763	-46.79
134 Di-n-octylphthala	674530	337265	1349060	376384	-44.20
77 Perylene-d12	336665	168333	673330	182161	-45.89

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	-0.06
42 Acenaphthene-d10	15.31	14.81	15.81	15.30	-0.05
59 Phenanthrene-d10	18.36	17.86	18.86	18.35	-0.04
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.42	0.00
77 Perylene-d12	26.09	25.59	26.59	26.08	-0.03

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

REVIEW SUMMARY FOR FILE - NT1422123078.D

Lab ID: BKL0193-MS1
nt14.i, 20221230C.b\ABN.m,   01-JAN-2023 06:41

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: NT1422123066.D

On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

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

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Date : 01-JAN-2023 07:17
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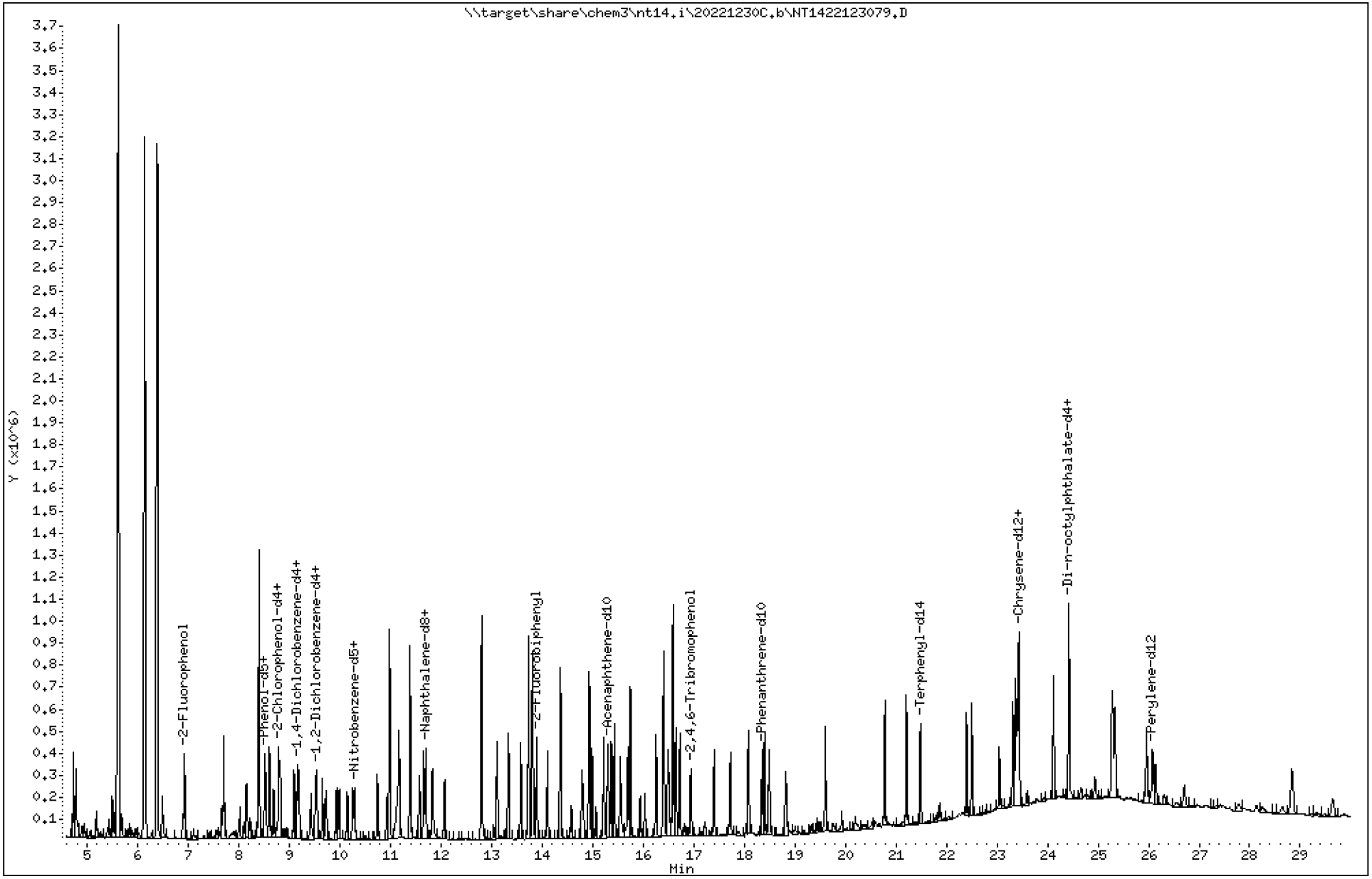
Sample Info: BKL0193-MSD1

Instrument: nt14.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

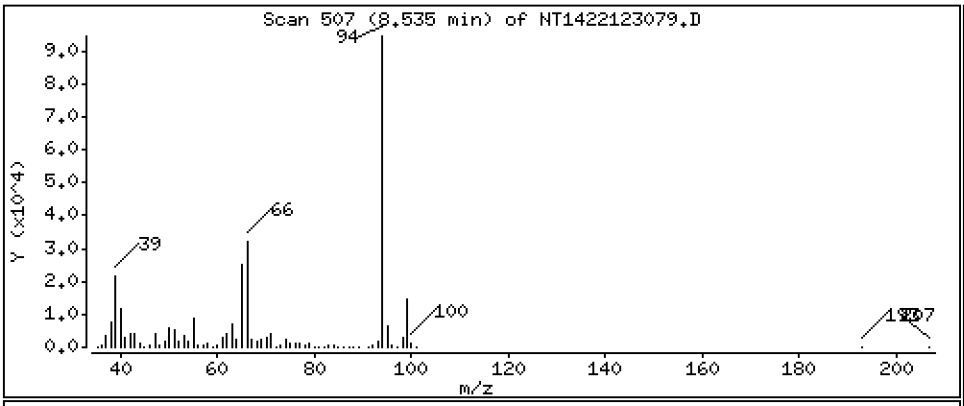
Operator: VTS

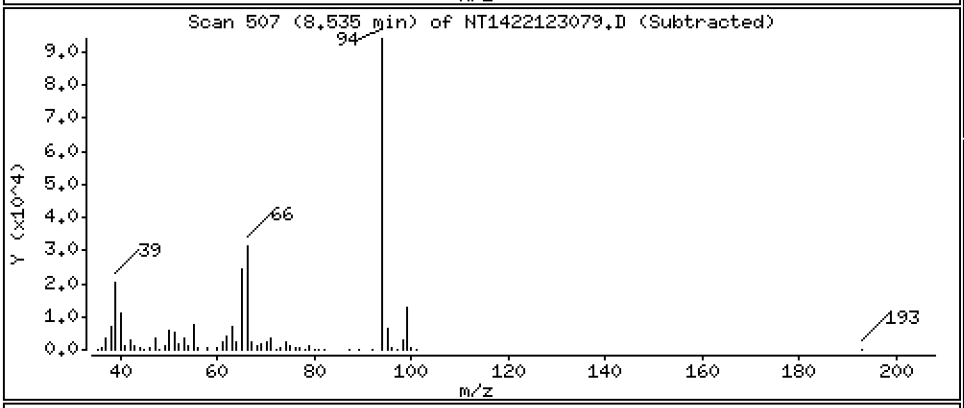
Column phase: ZB-5msi

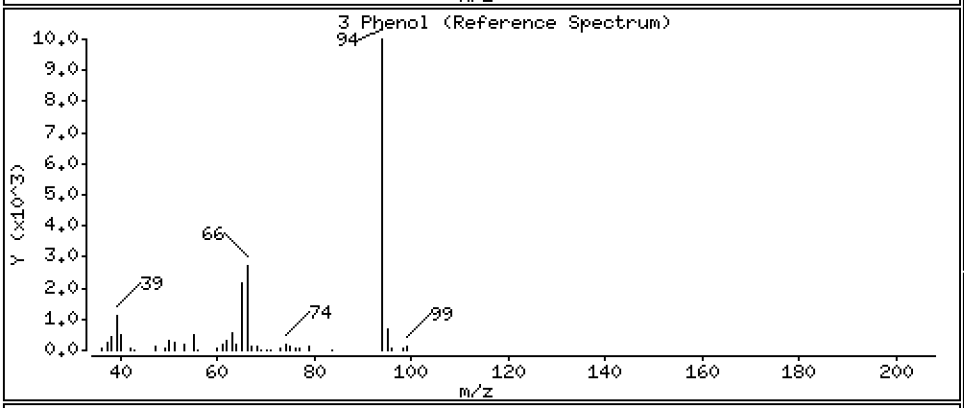
Column diameter: 0.25

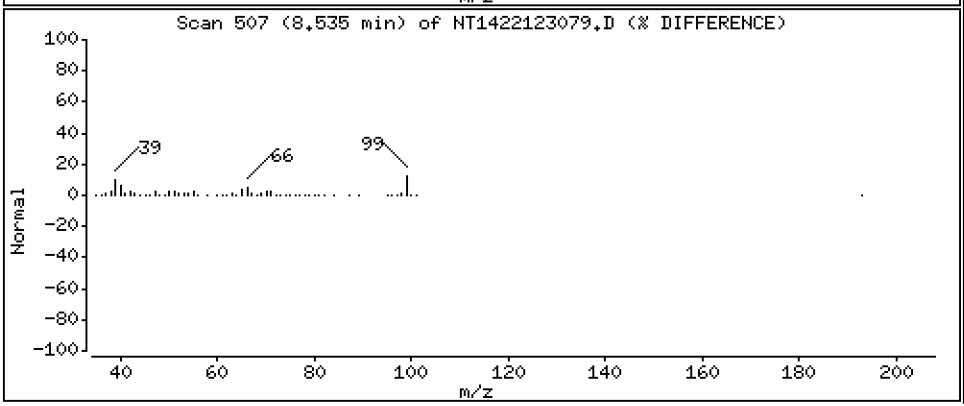
3 Phenol

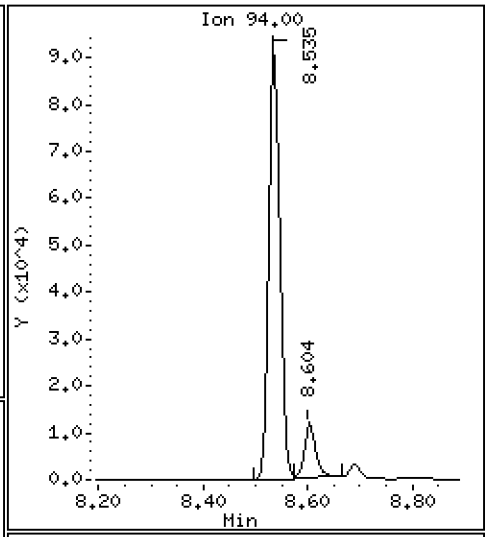
Concentration: 3.524 ug/mL

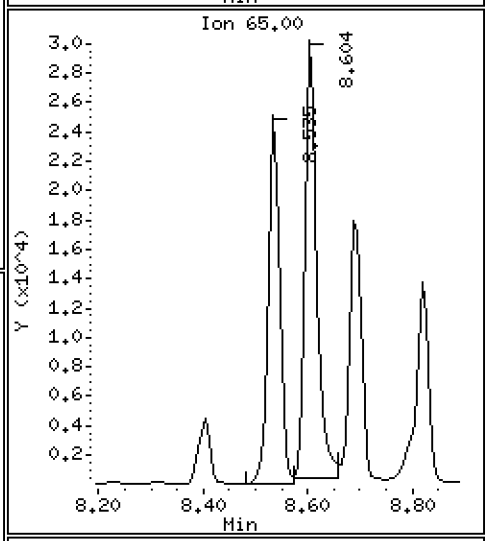


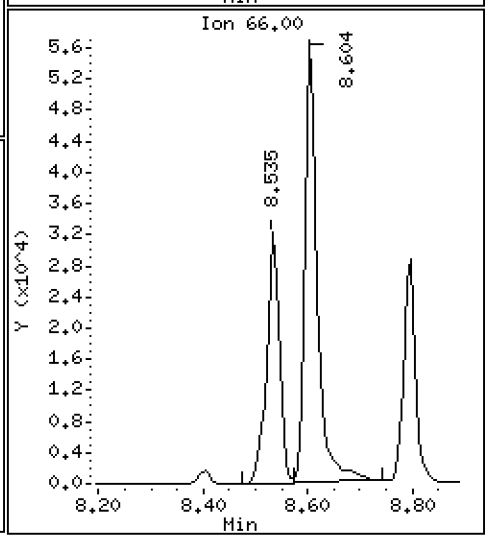












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

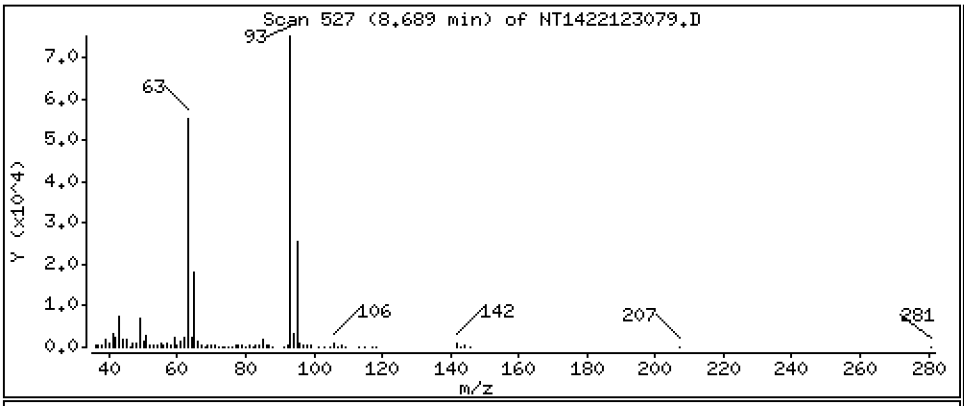
Operator: VTS

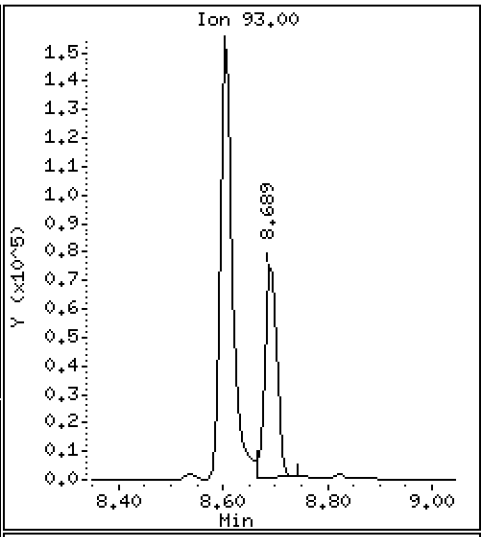
Column phase: ZB-5msi

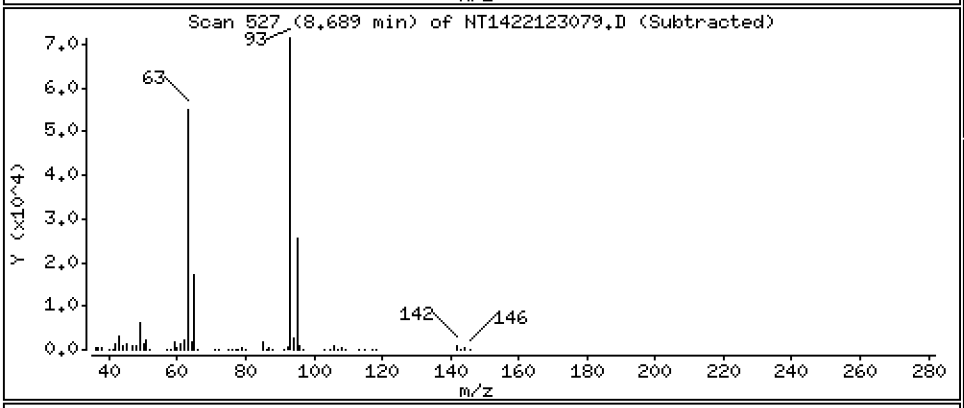
Column diameter: 0.25

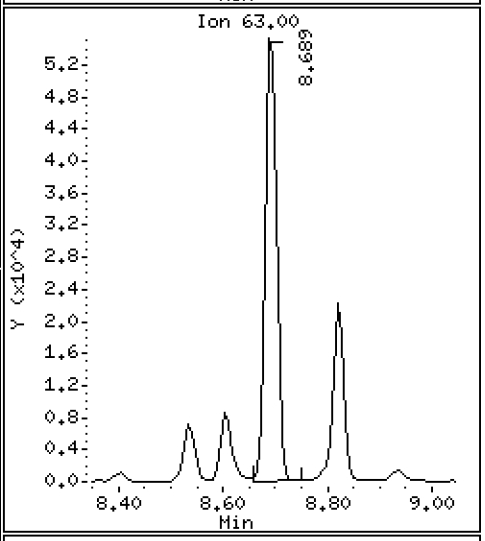
4 Bis(2-Chloroethyl)ether

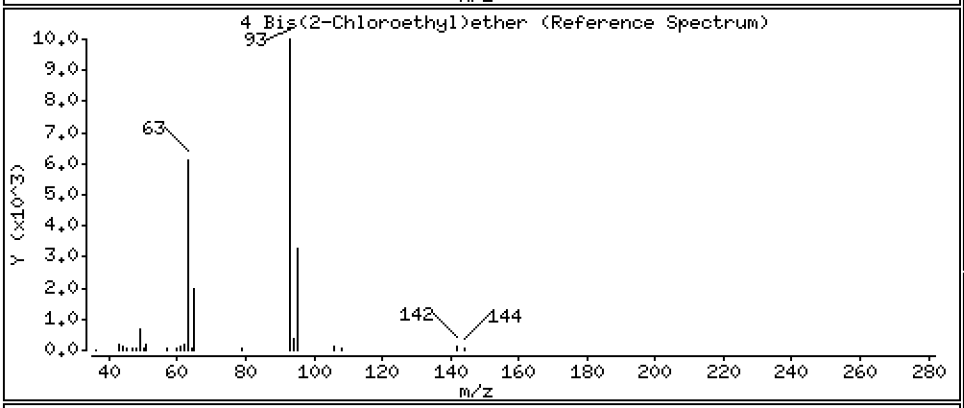
Concentration: 4.419 ug/mL

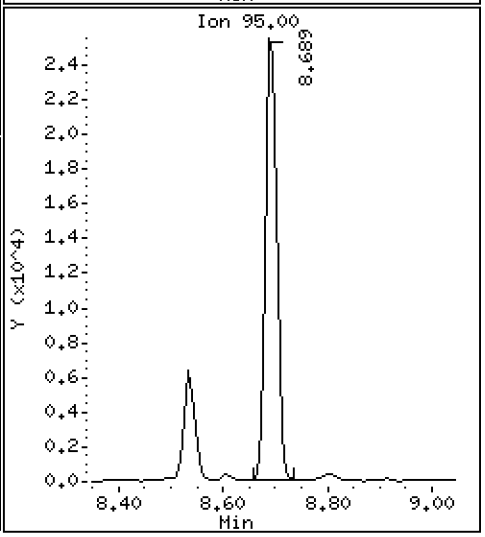


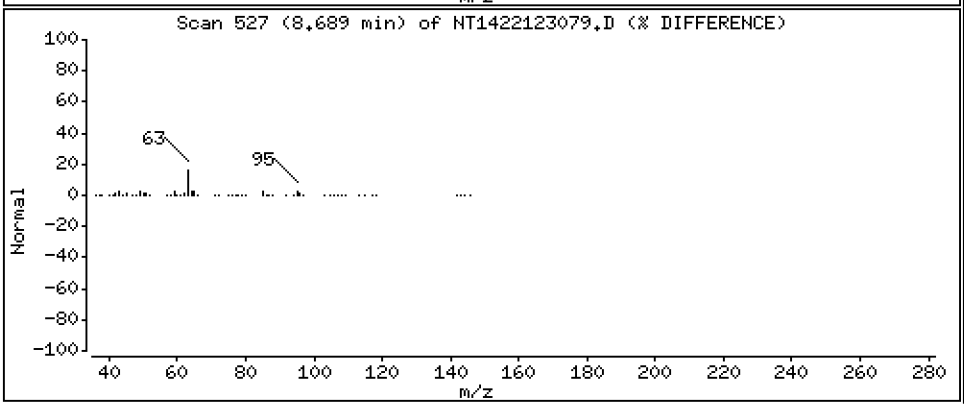












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

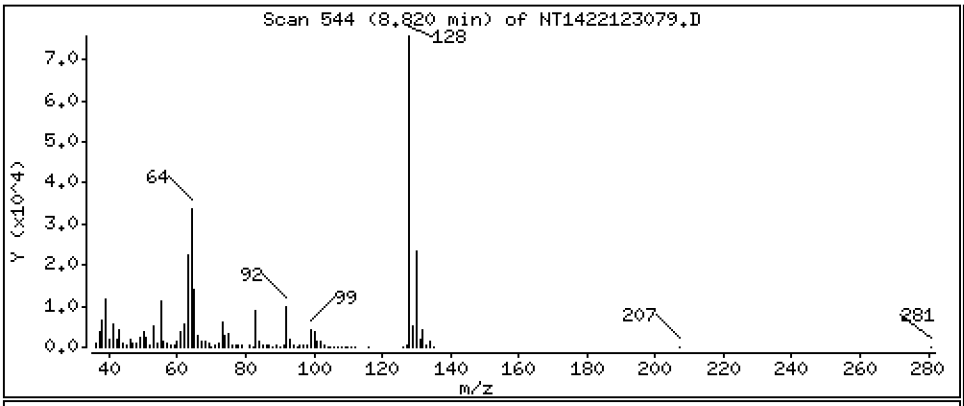
Operator: VTS

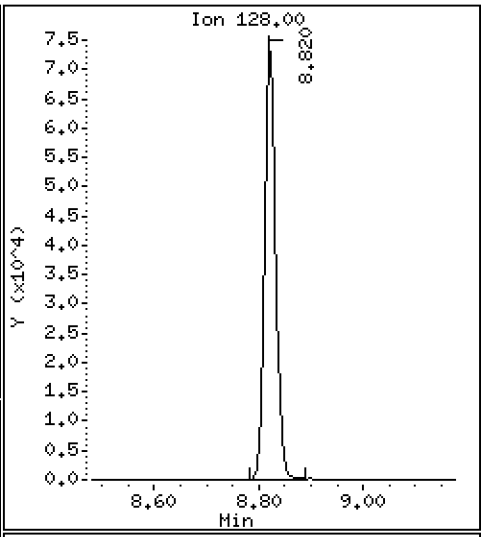
Column phase: ZB-5msi

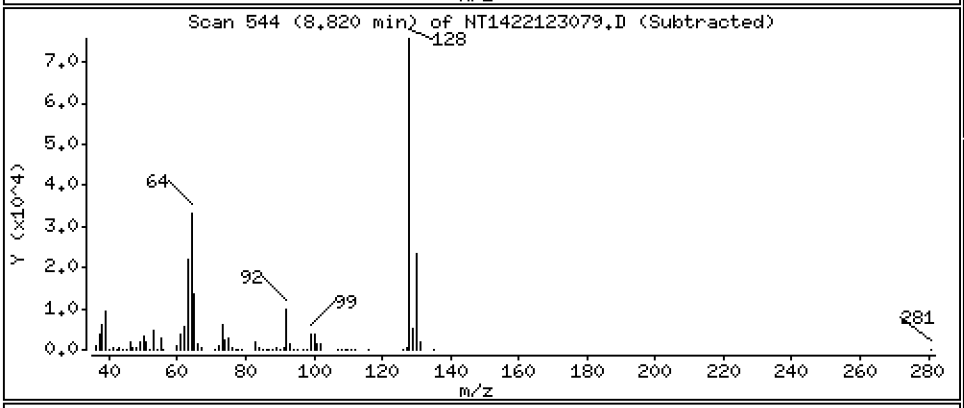
Column diameter: 0.25

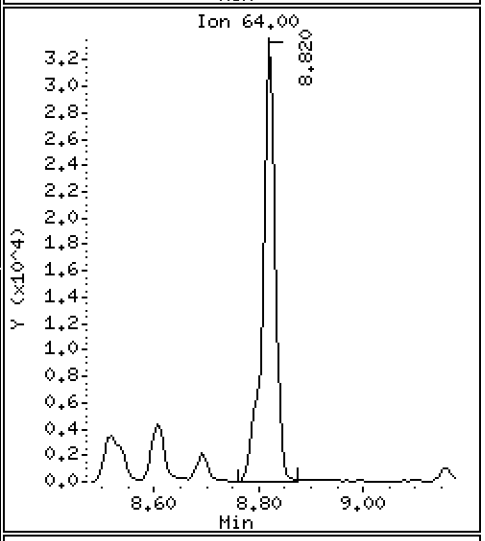
6 2-Chlorophenol

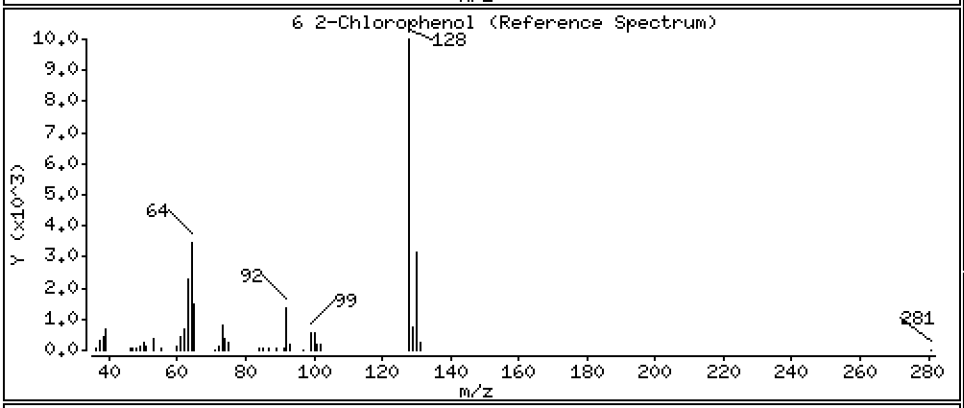
Concentration: 3.608 ug/mL

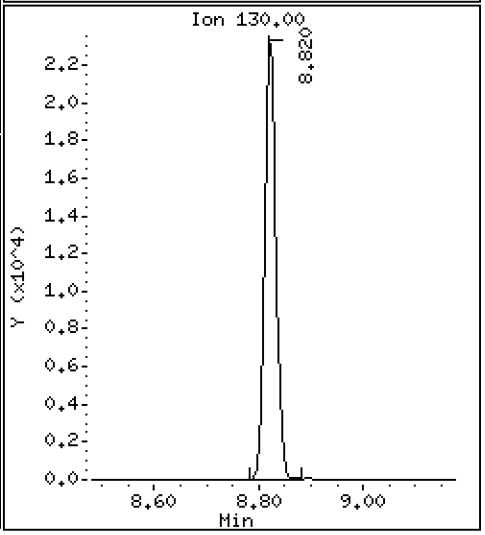


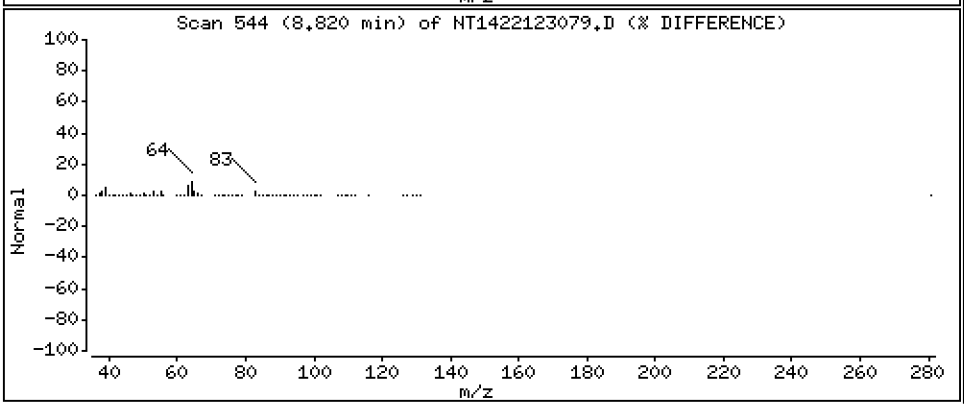












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

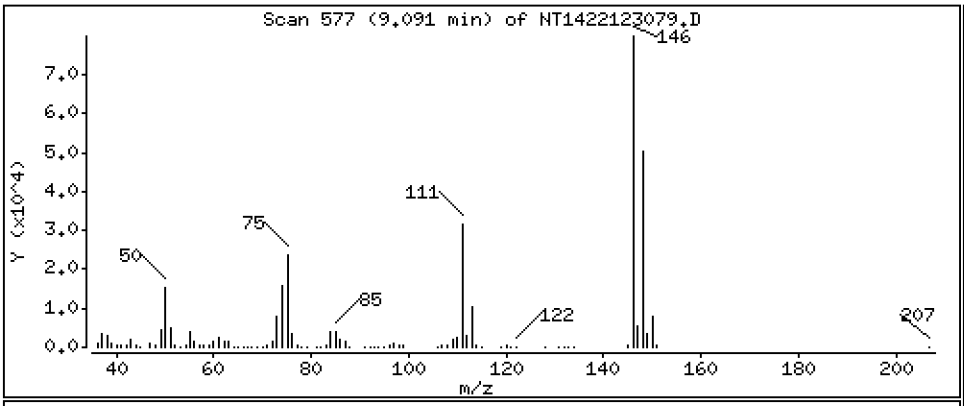
Operator: VTS

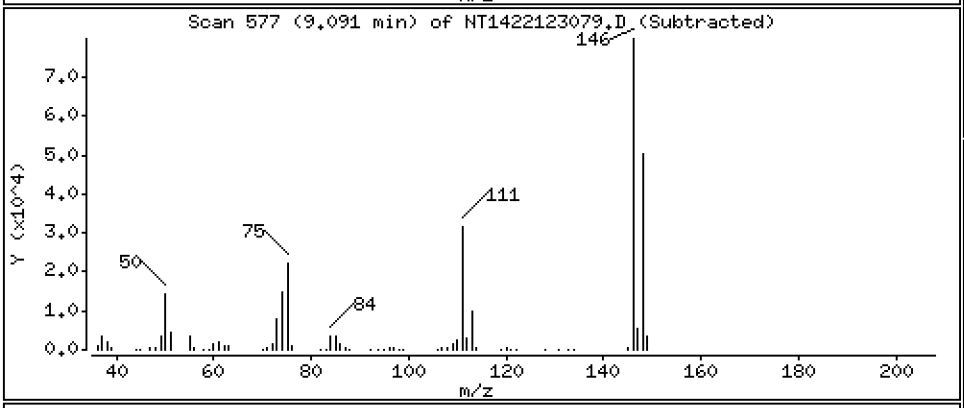
Column phase: ZB-5msi

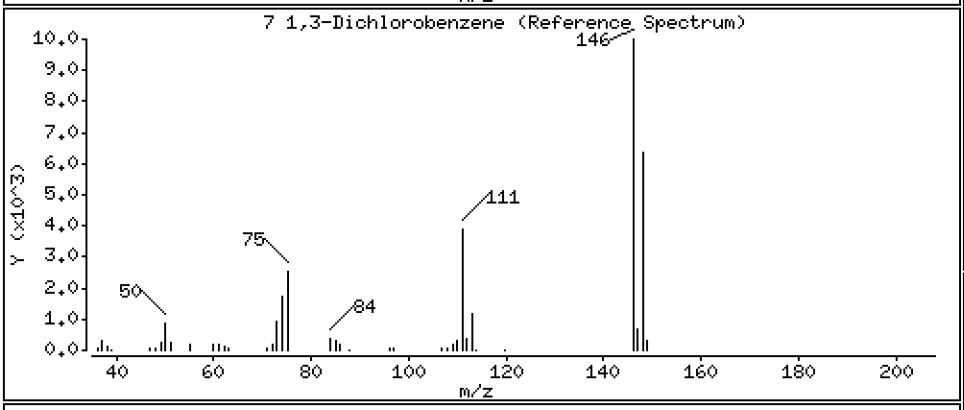
Column diameter: 0.25

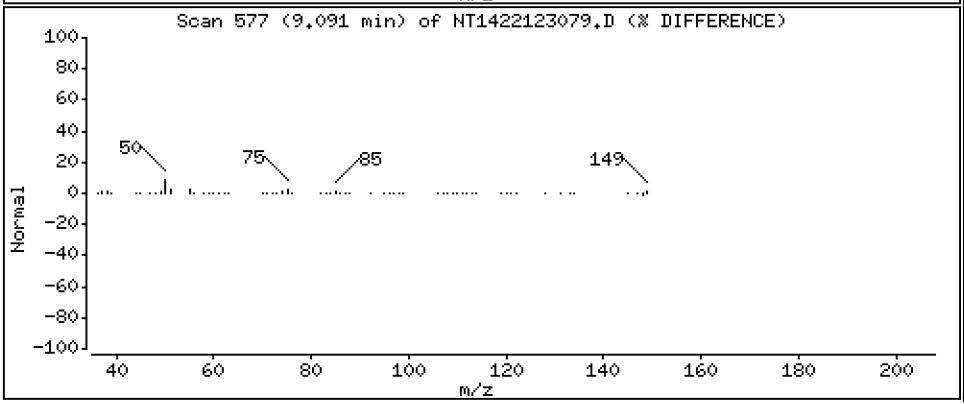
7 1,3-Dichlorobenzene

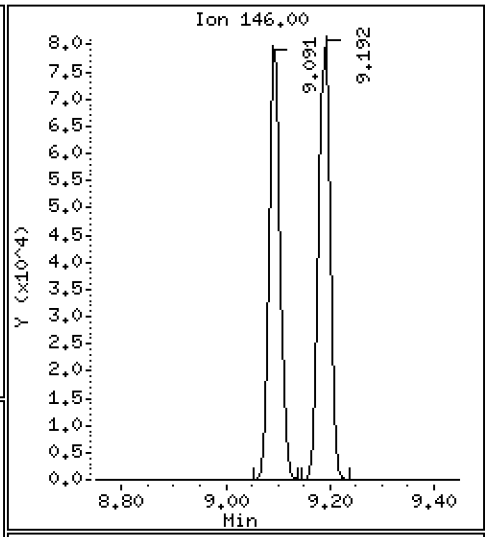
Concentration: 3.679 ug/mL

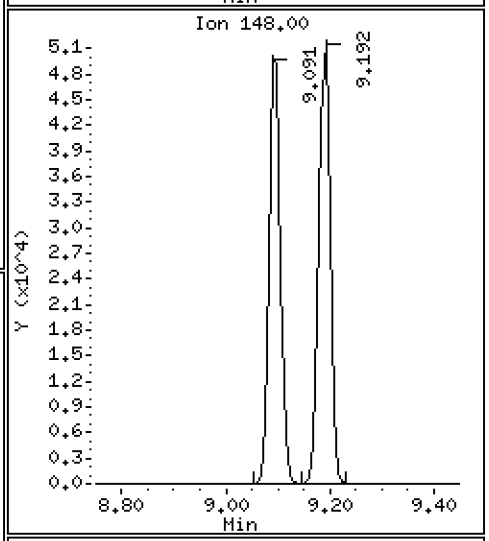


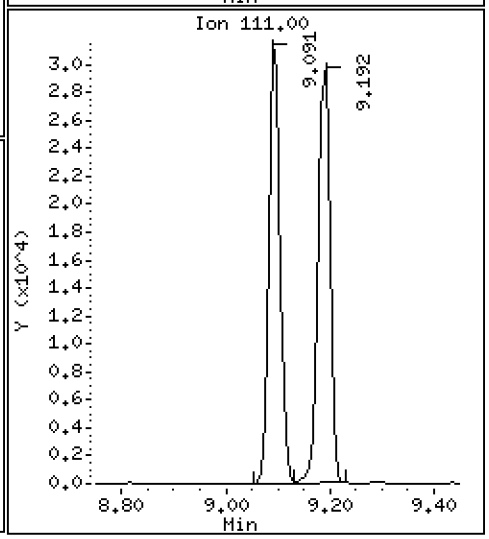












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

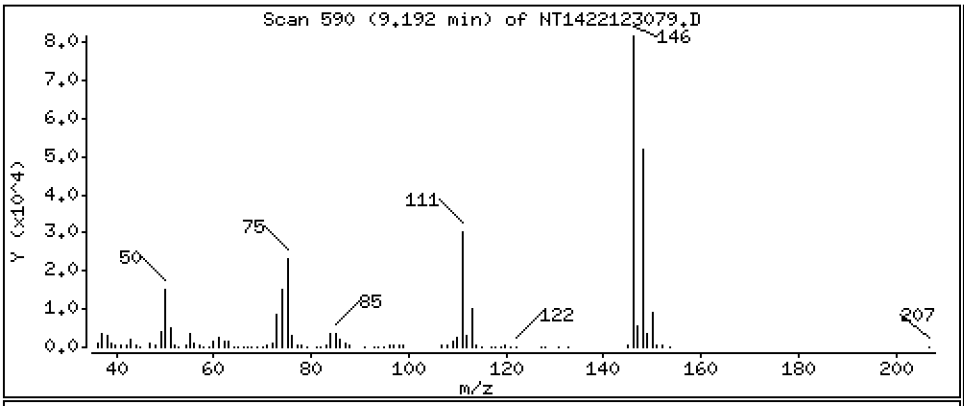
Operator: VTS

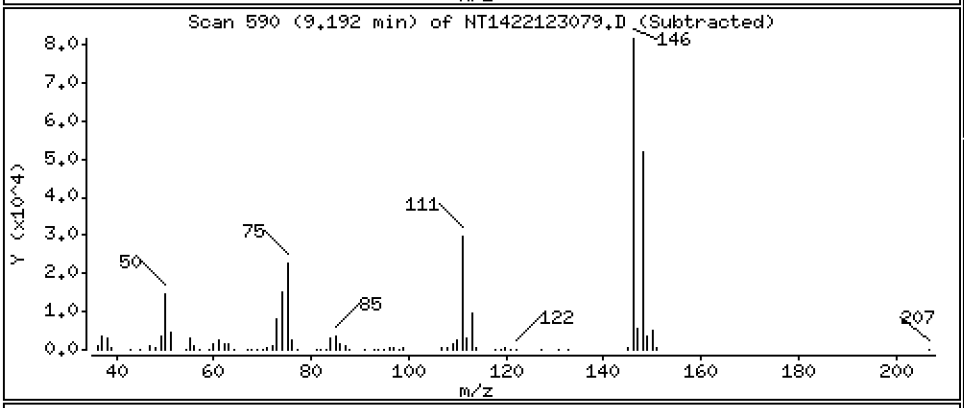
Column phase: ZB-5msi

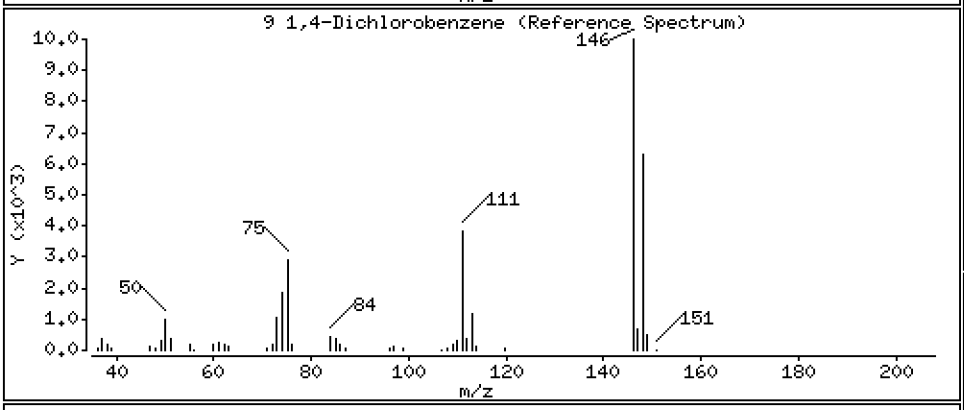
Column diameter: 0.25

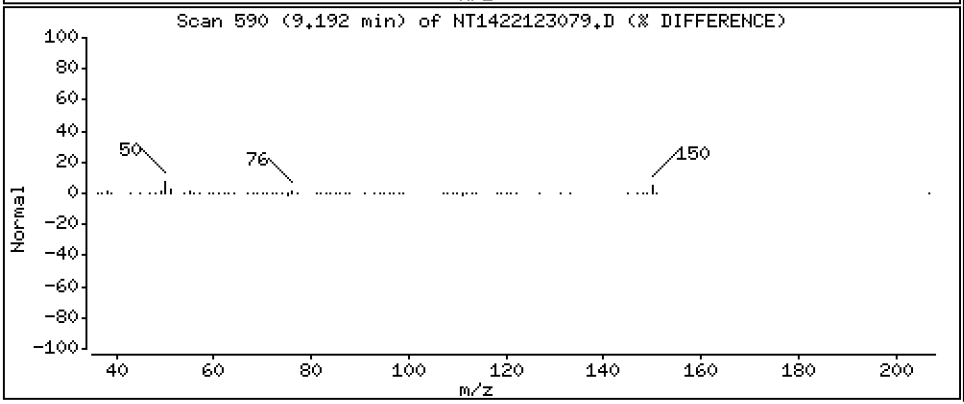
9 1,4-Dichlorobenzene

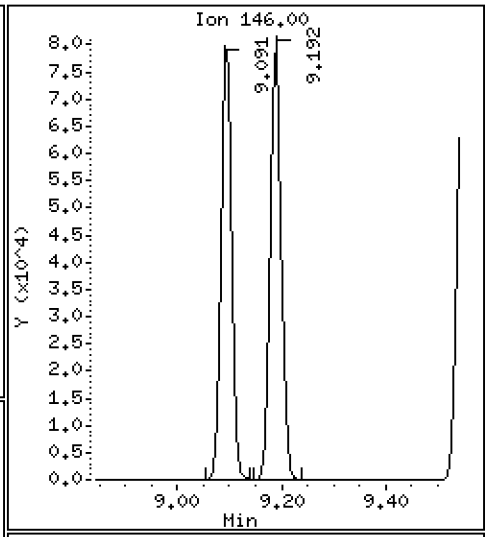
Concentration: 3.830 ug/mL

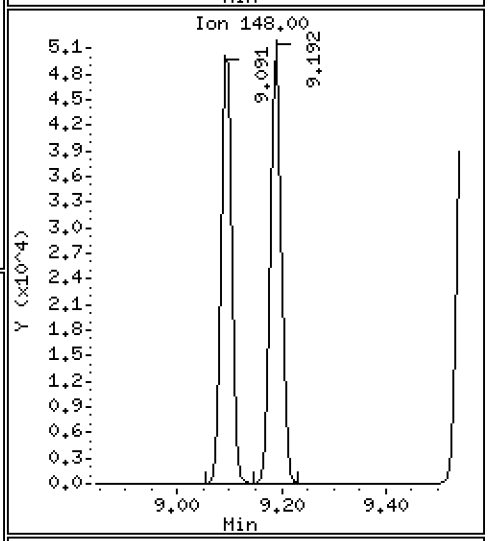


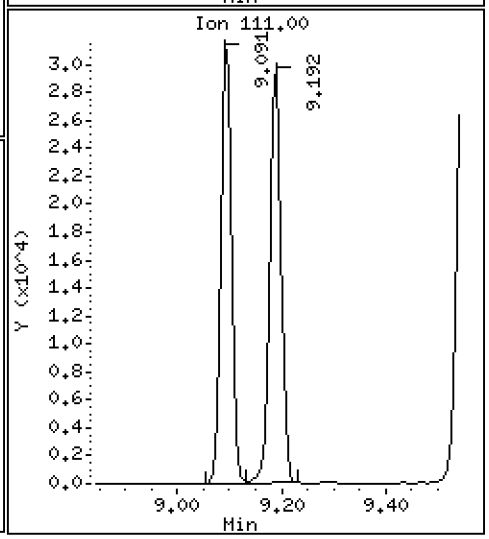












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

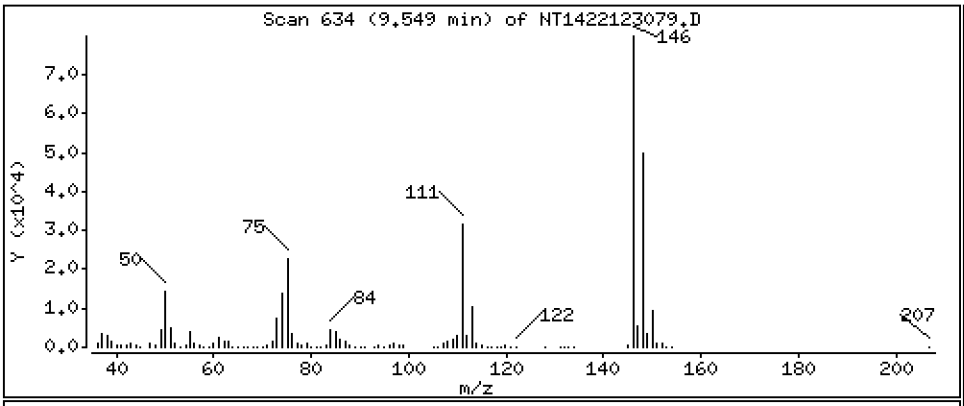
Operator: VTS

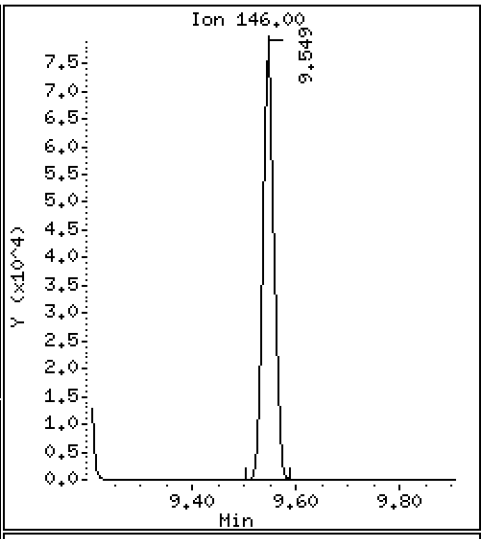
Column phase: ZB-5msi

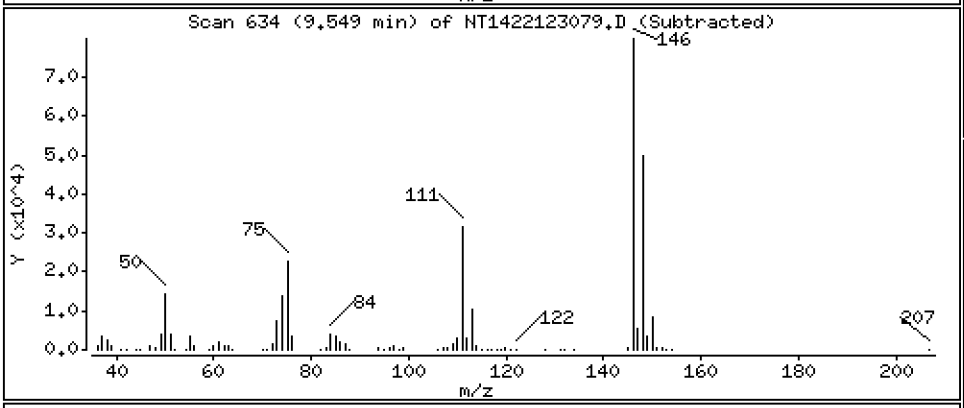
Column diameter: 0.25

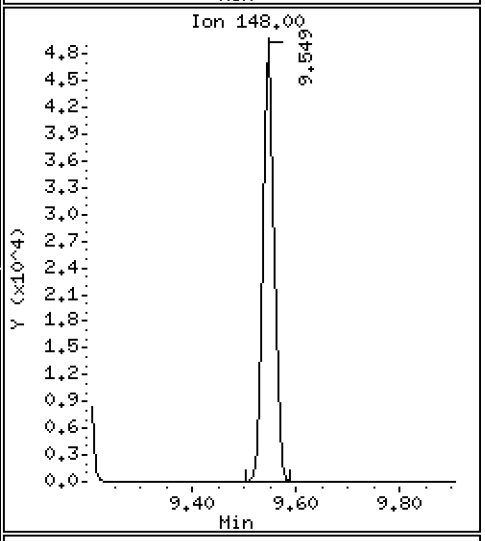
12 1,2-Dichlorobenzene

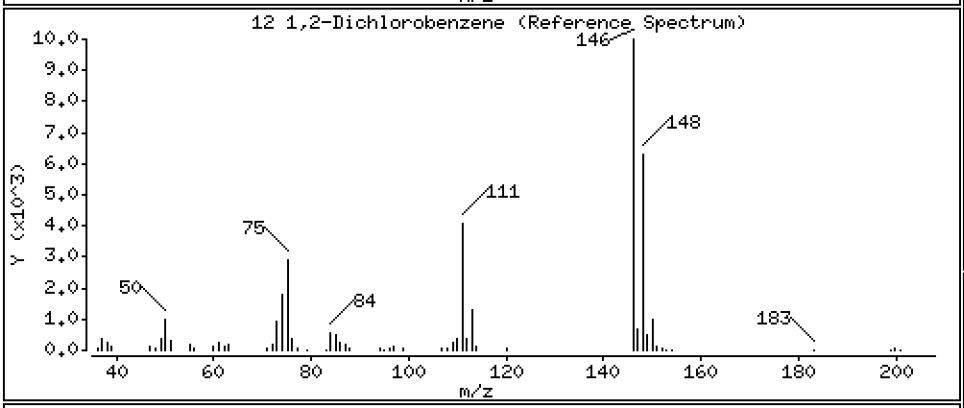
Concentration: 3.834 ug/mL

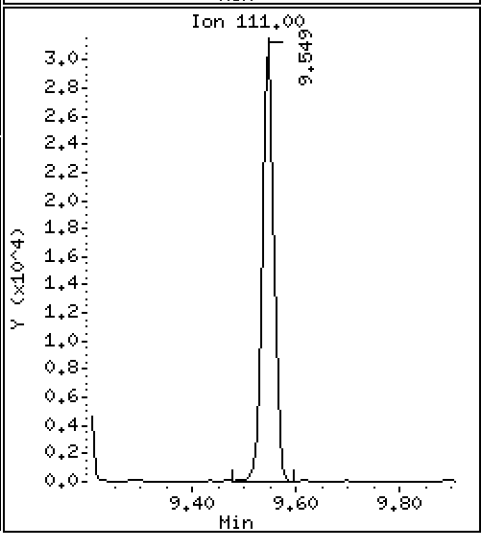


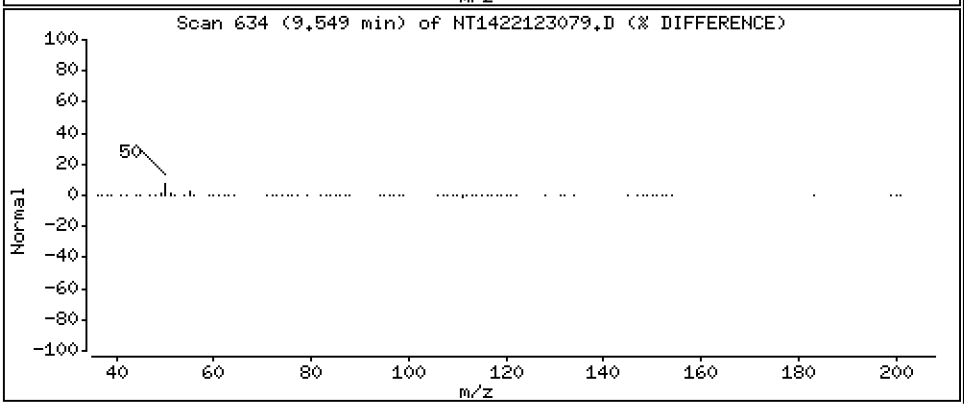












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

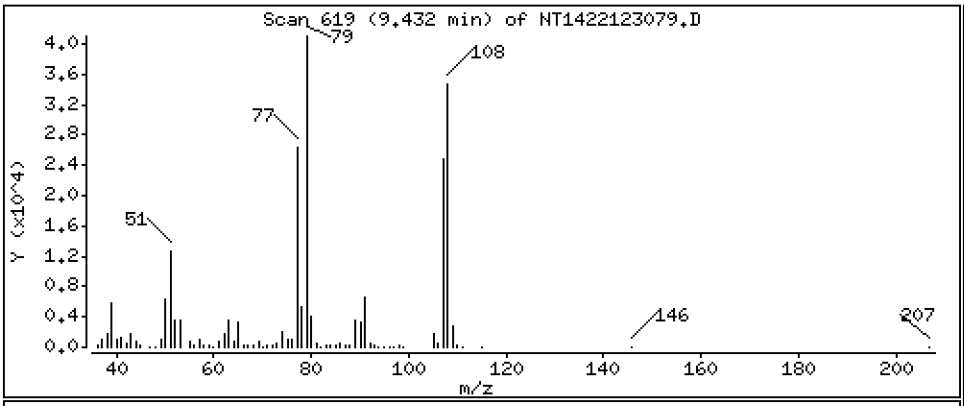
Operator: VTS

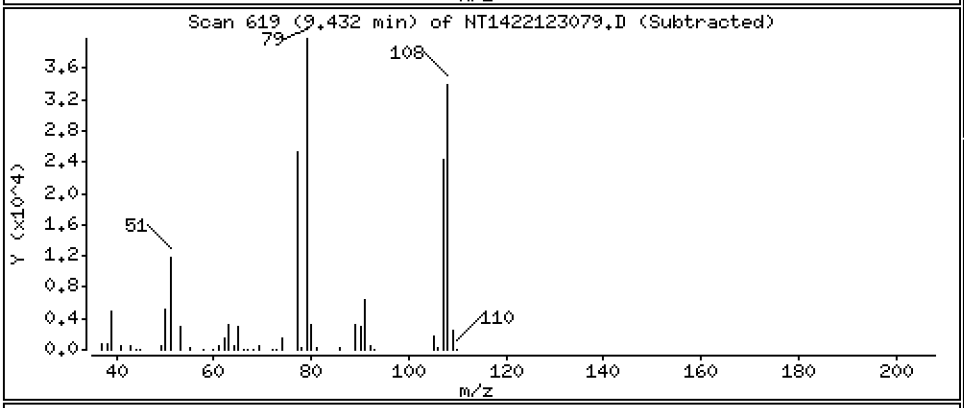
Column phase: ZB-5msi

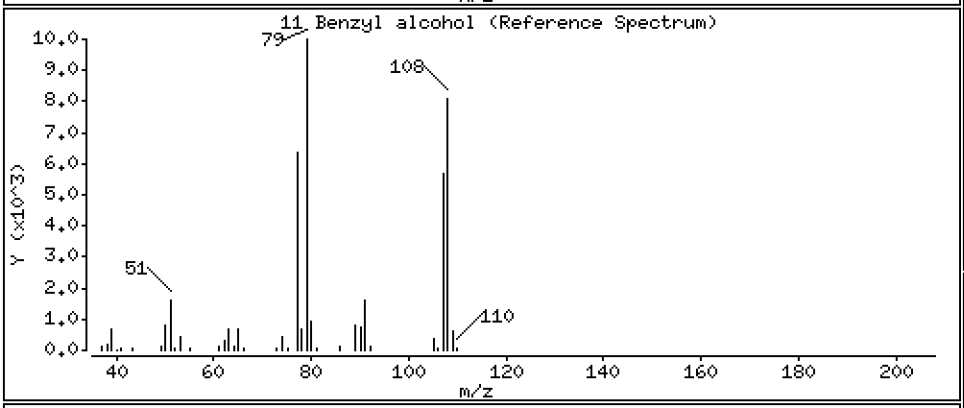
Column diameter: 0.25

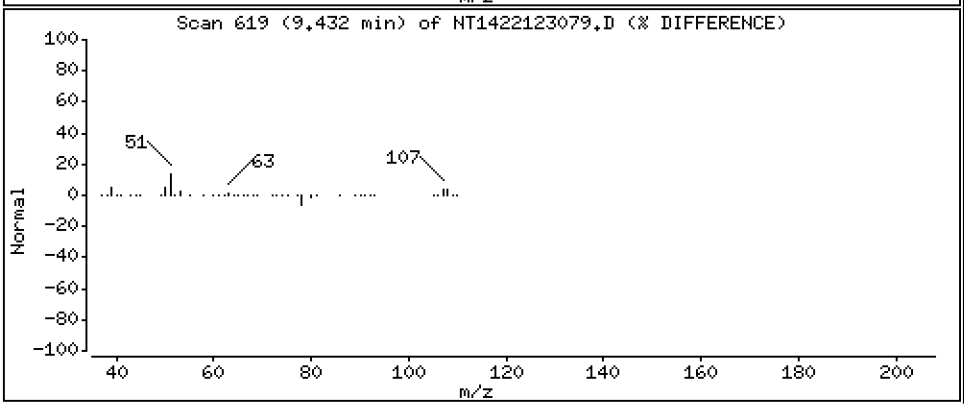
11 Benzyl alcohol

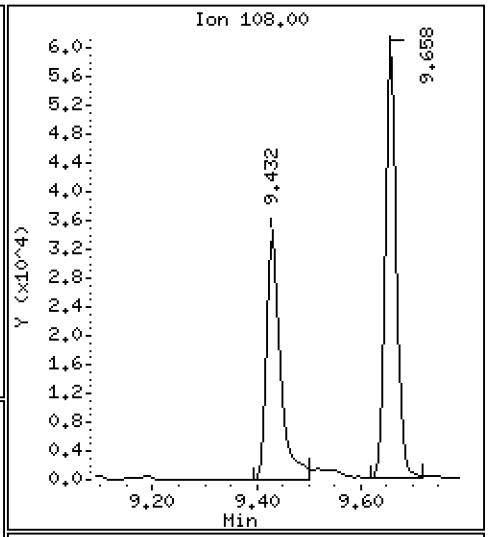
Concentration: 3.820 ug/mL

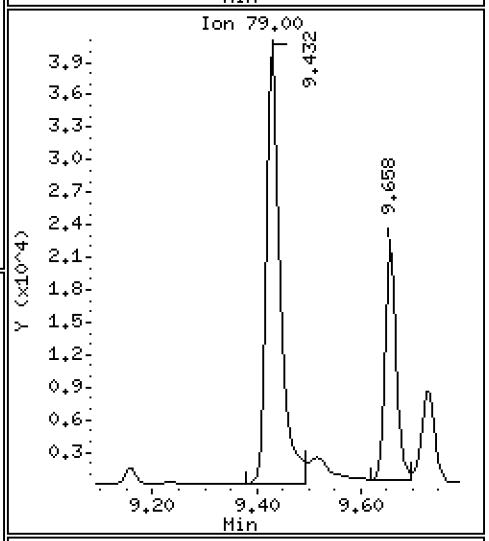


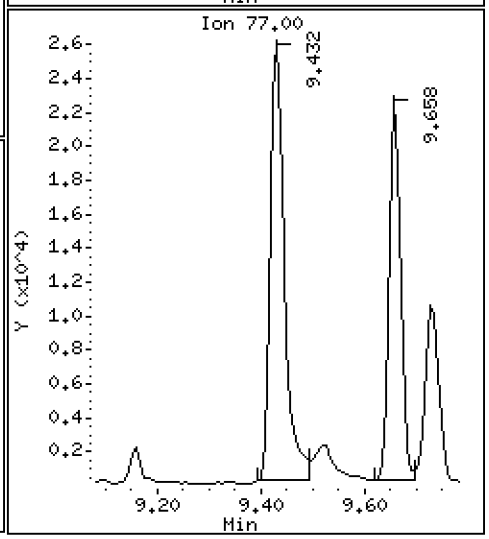












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

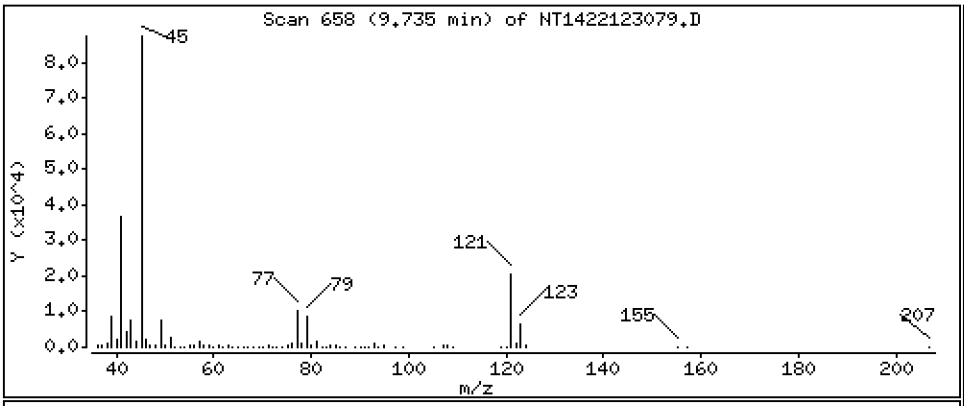
Operator: VTS

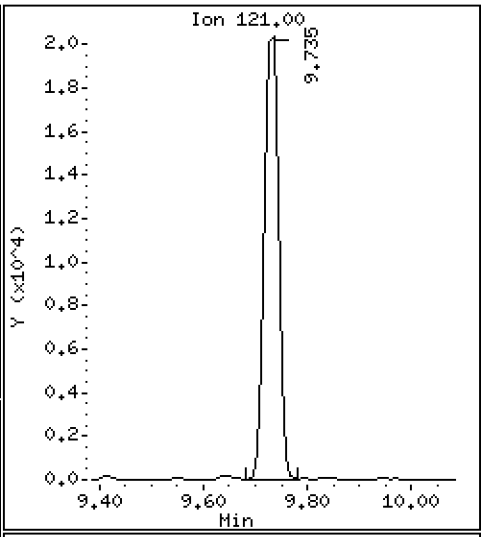
Column phase: ZB-5msi

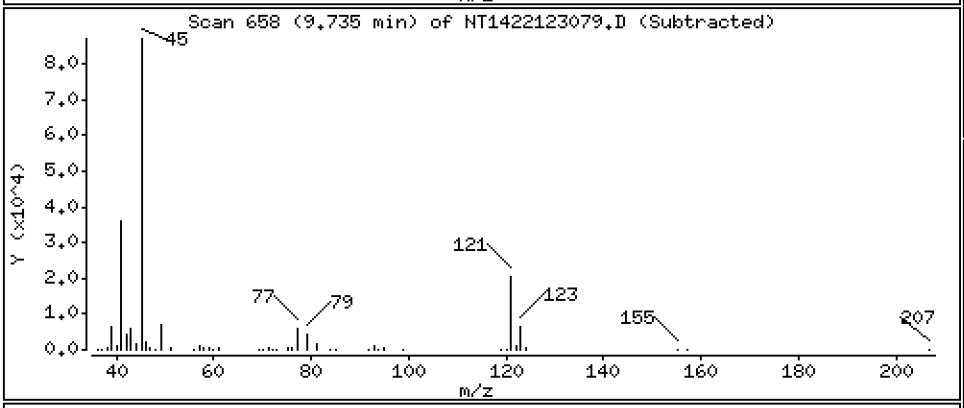
Column diameter: 0.25

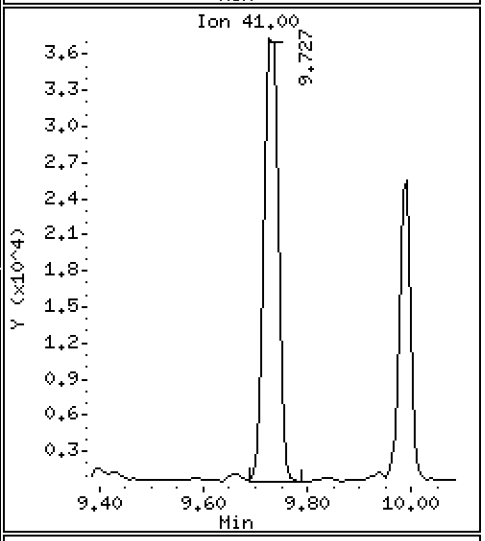
14 2,2'-oxybis(1-Chloropropane)

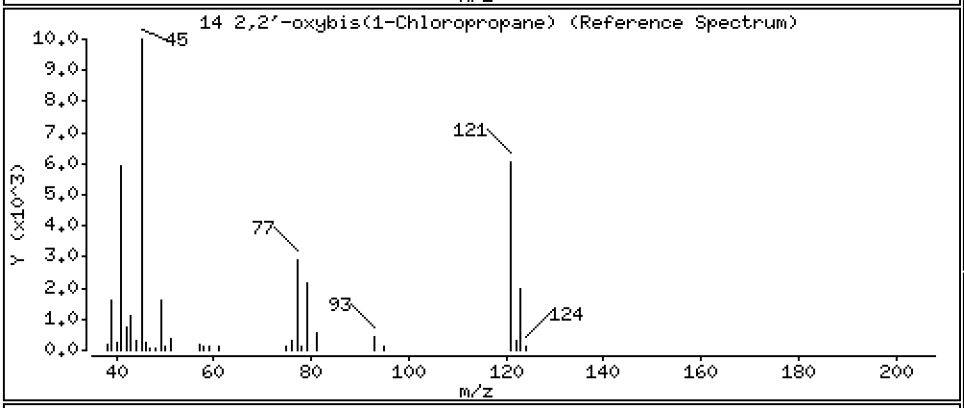
Concentration: 4.292 ug/mL

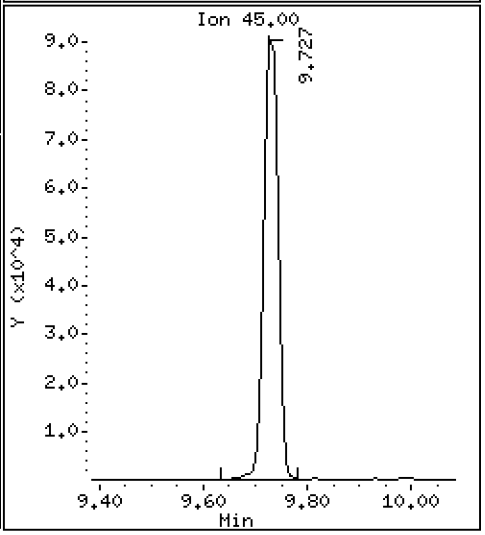


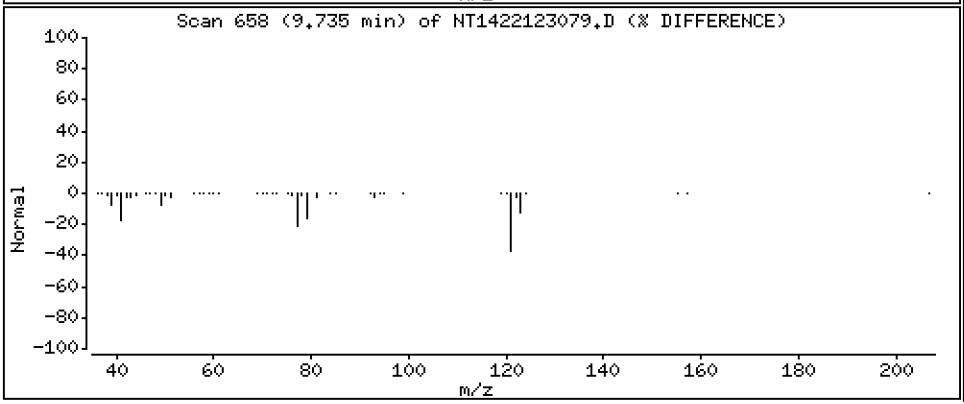












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

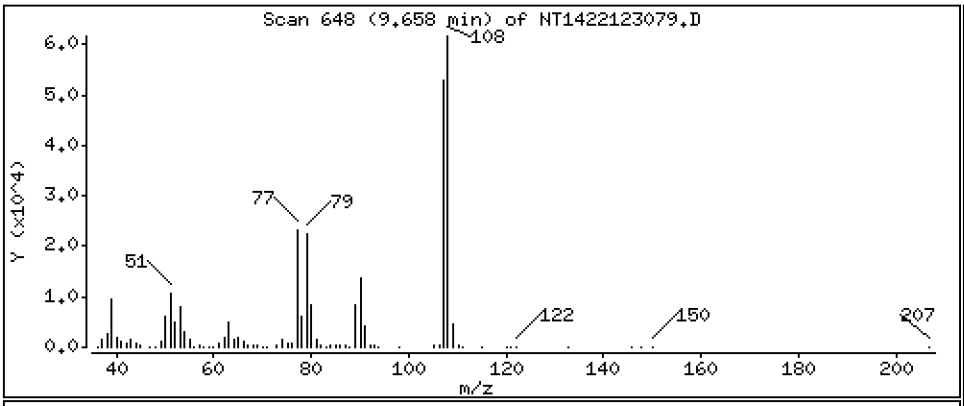
Operator: VTS

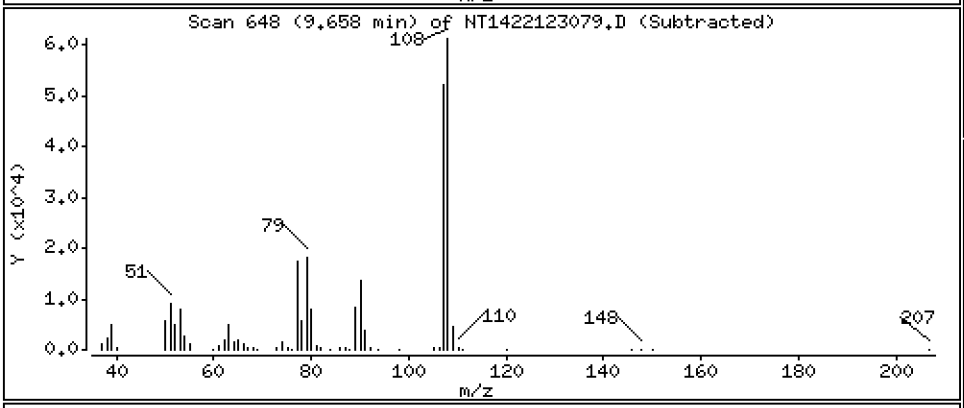
Column phase: ZB-5msi

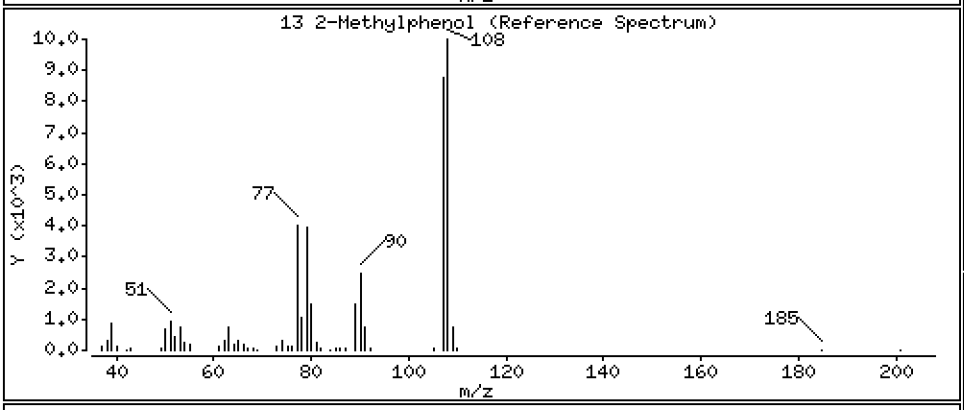
Column diameter: 0.25

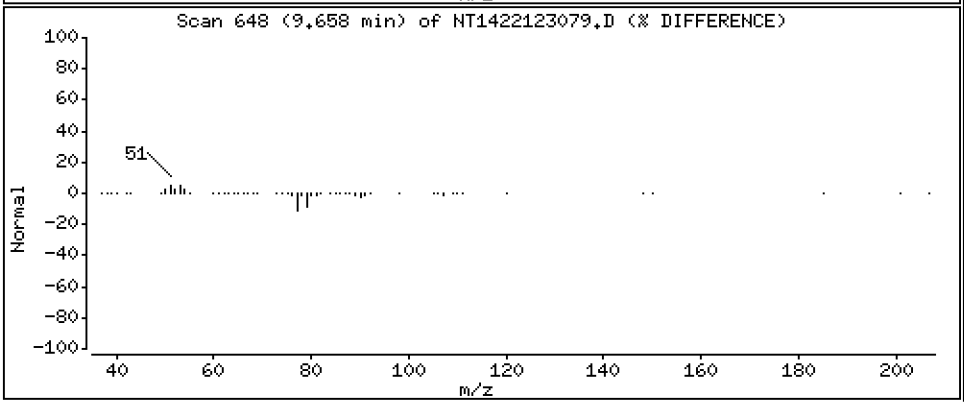
13 2-Methylphenol

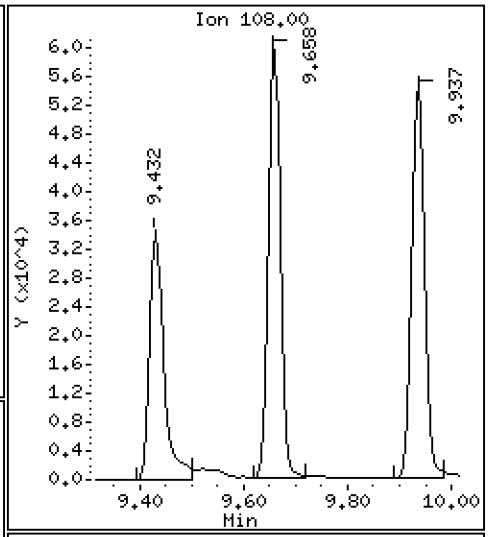
Concentration: 3.314 ug/mL

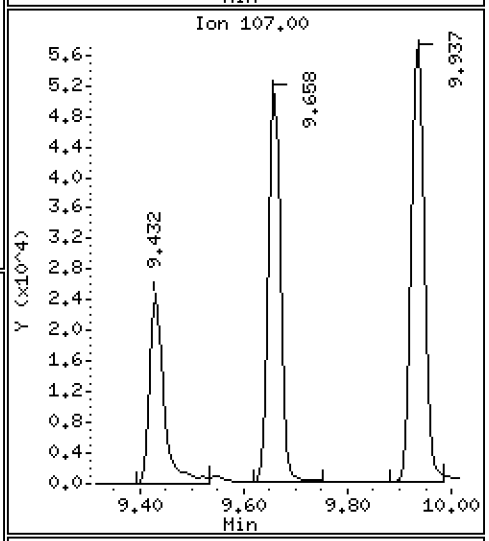


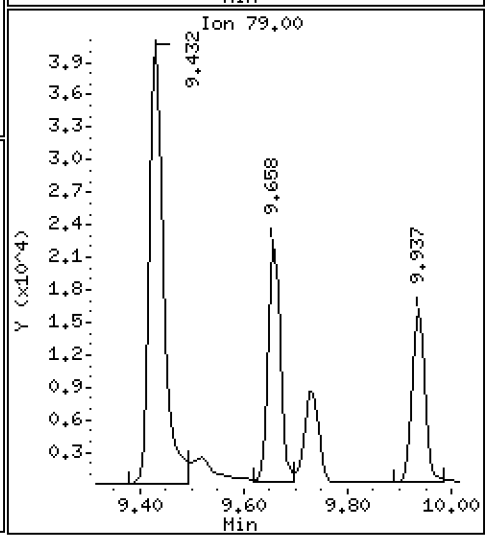












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

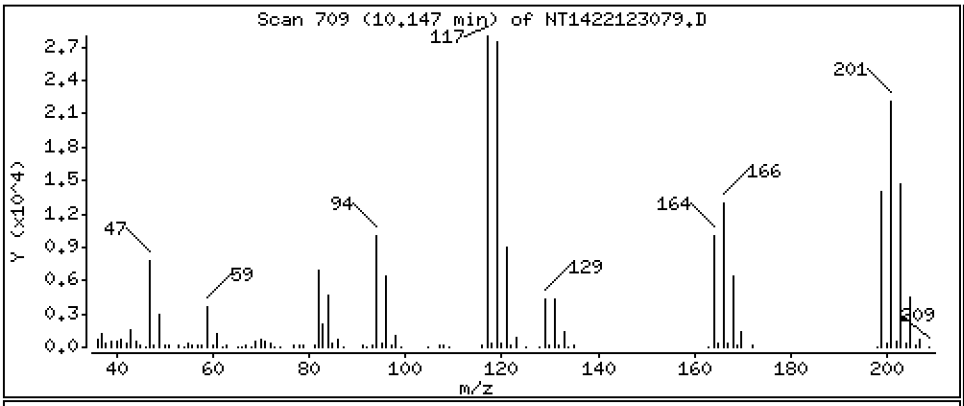
Operator: VTS

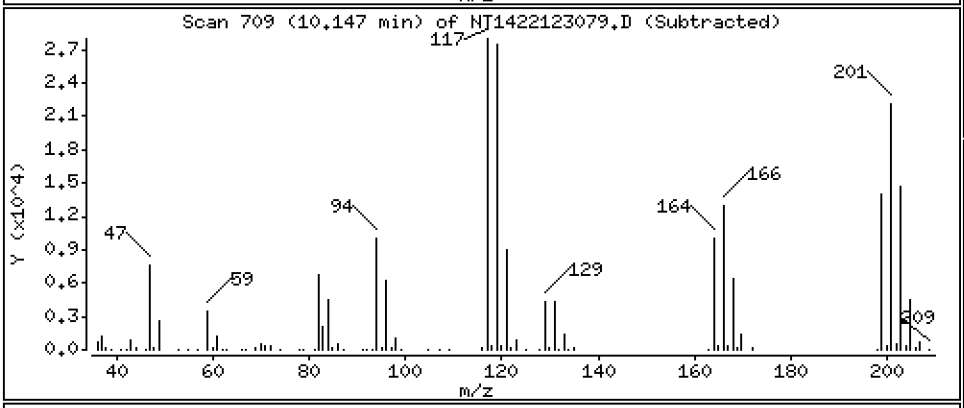
Column phase: ZB-5msi

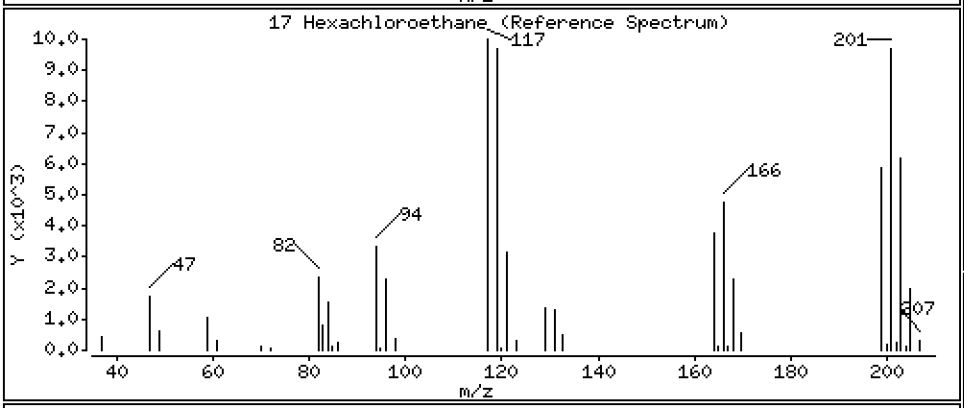
Column diameter: 0.25

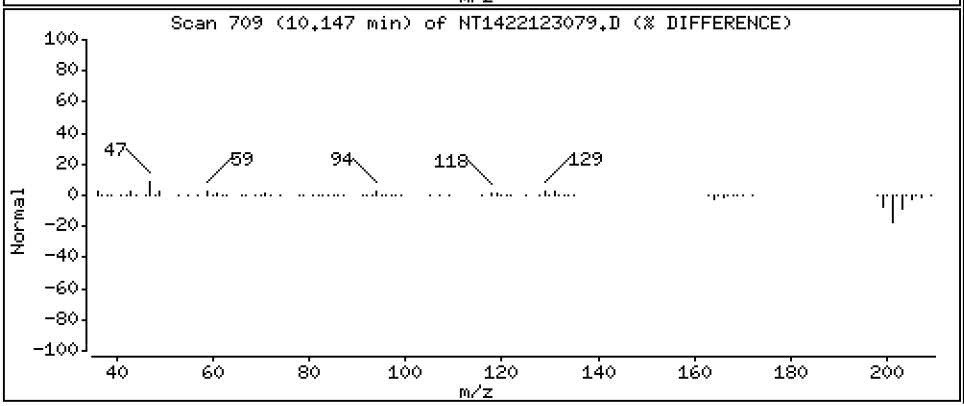
17 Hexachloroethane

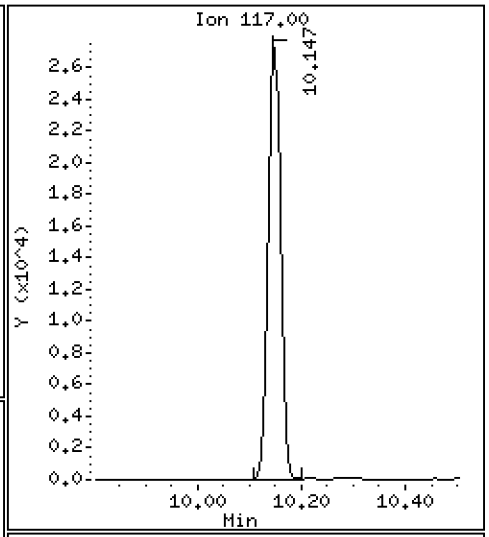
Concentration: 3.842 ug/mL

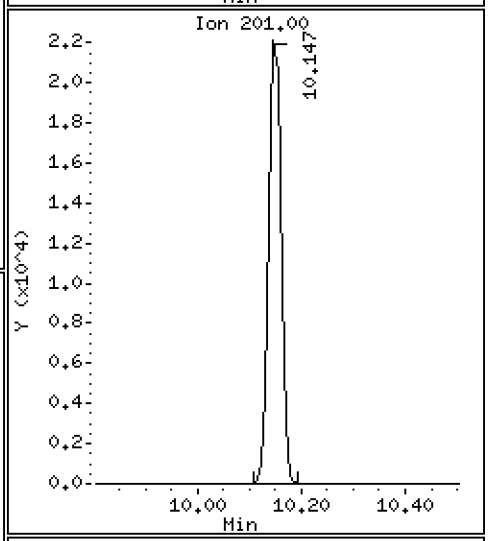


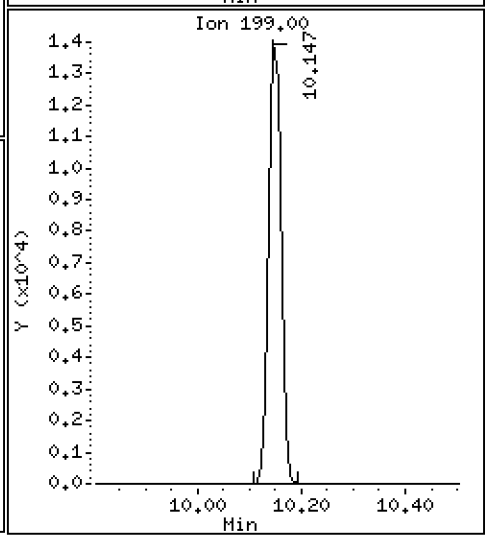












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

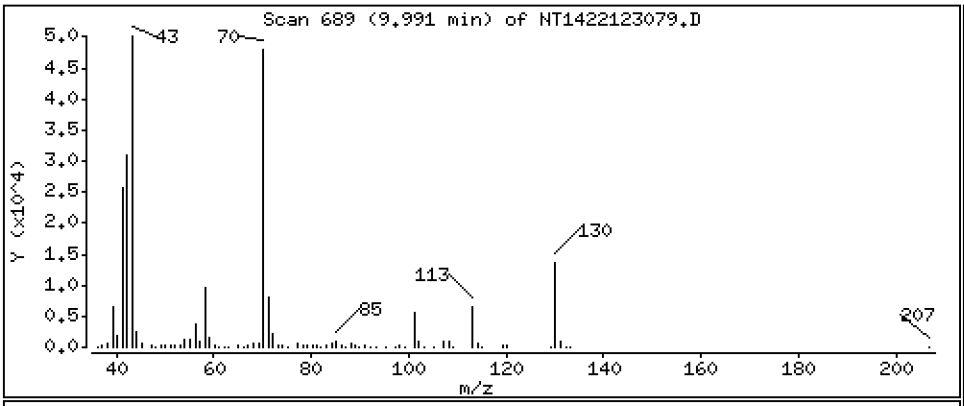
Operator: VTS

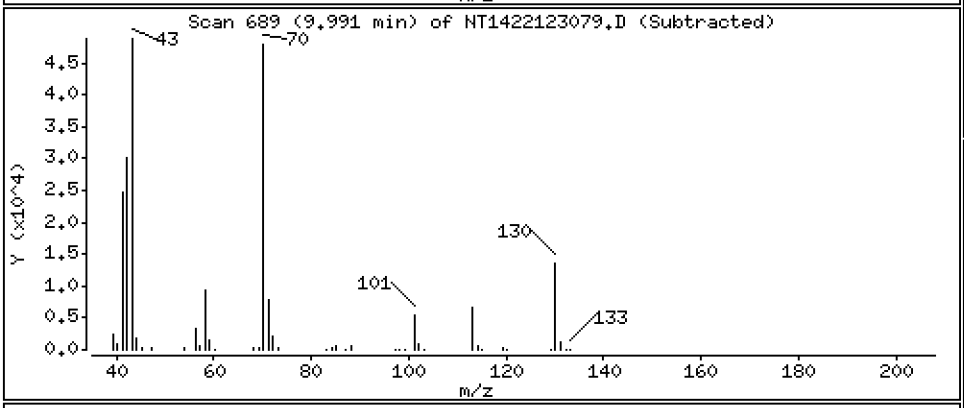
Column phase: ZB-5msi

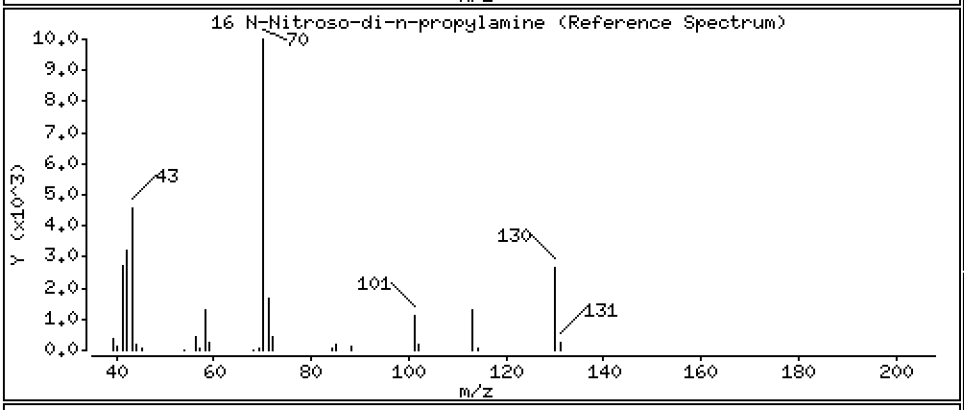
Column diameter: 0.25

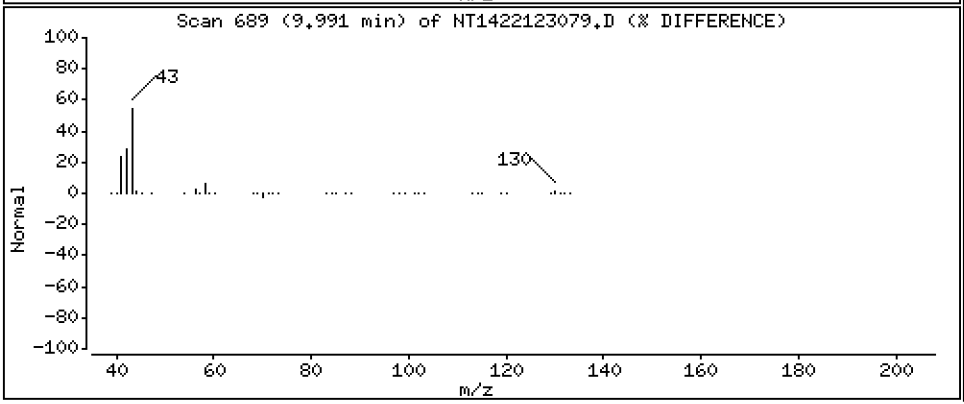
16 N-Nitroso-di-n-propylamine

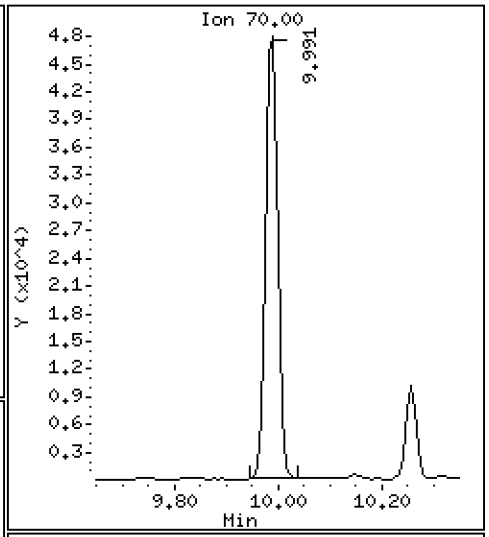
Concentration: 4.464 ug/mL

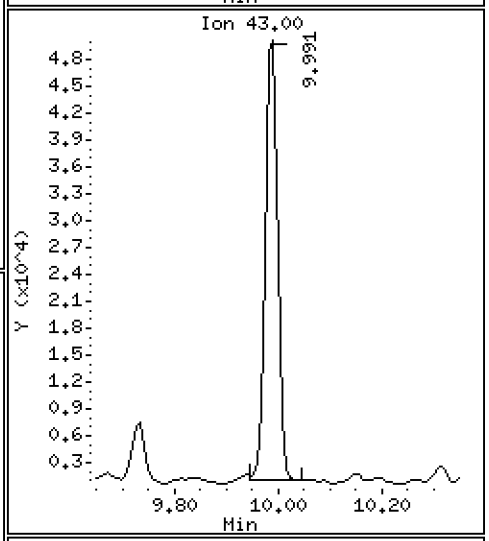


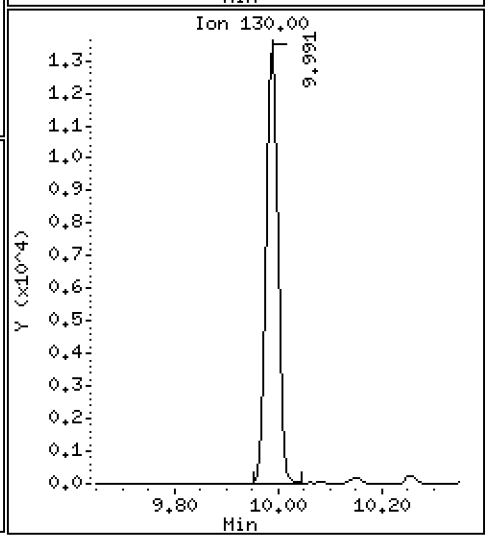












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

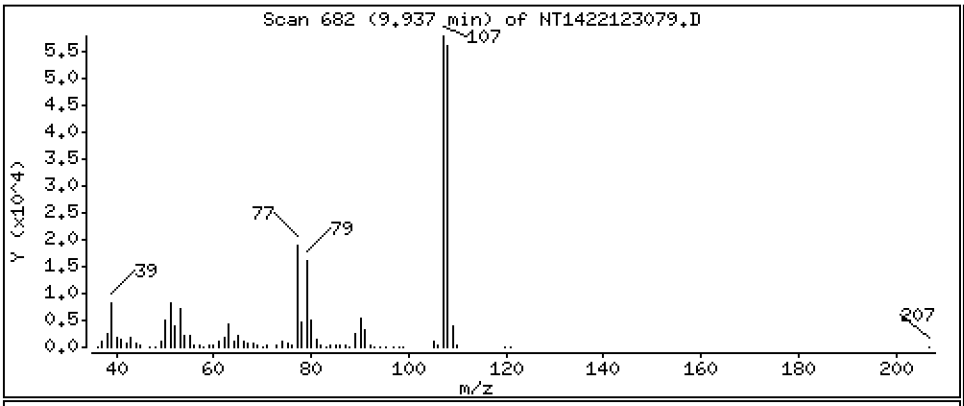
Operator: VTS

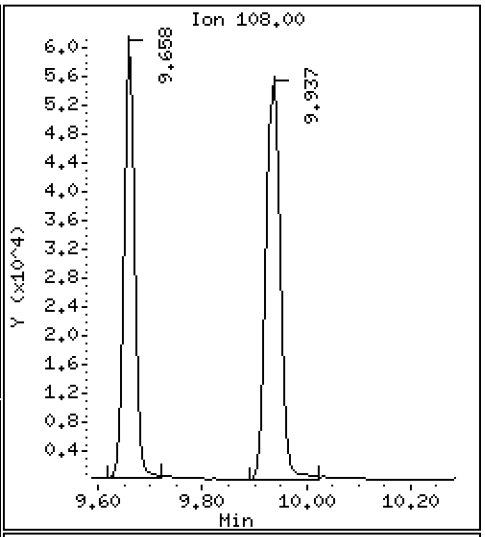
Column phase: ZB-5msi

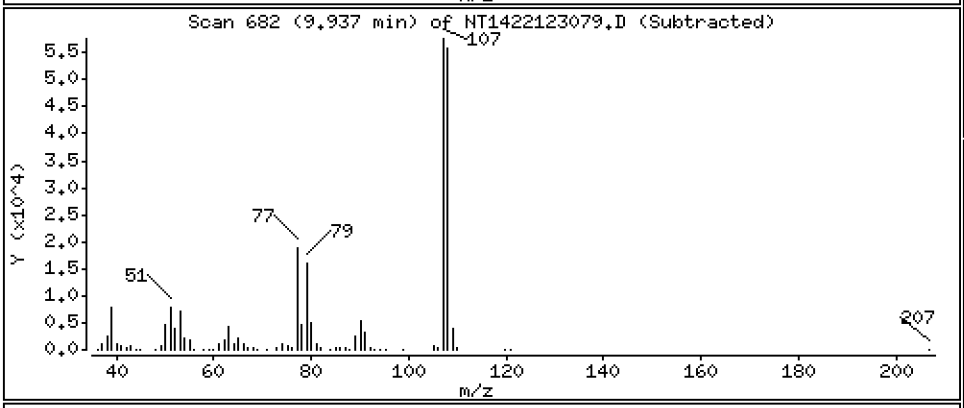
Column diameter: 0.25

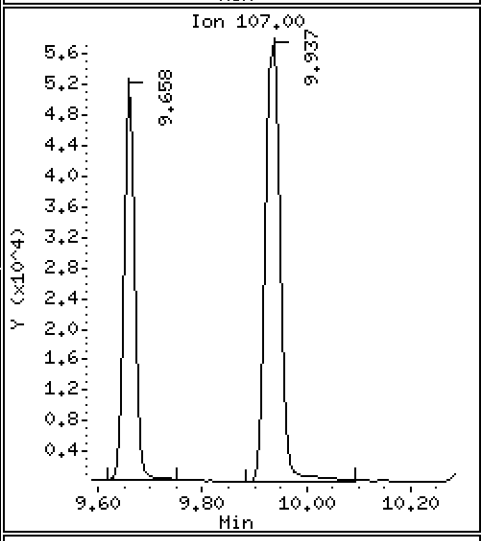
15 4-Methylphenol

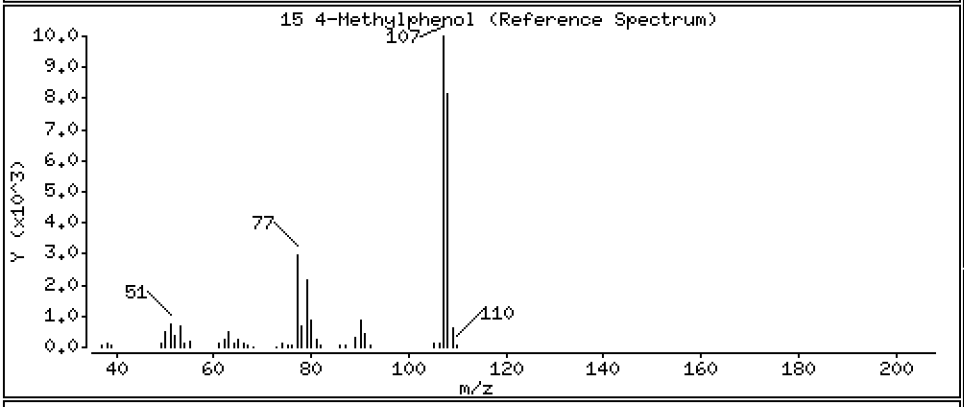
Concentration: 3.552 ug/mL

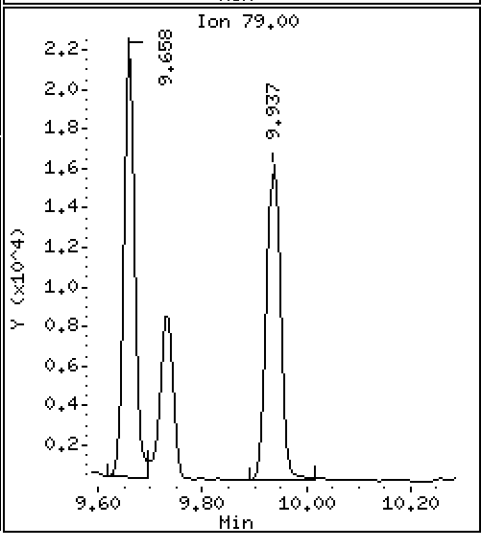


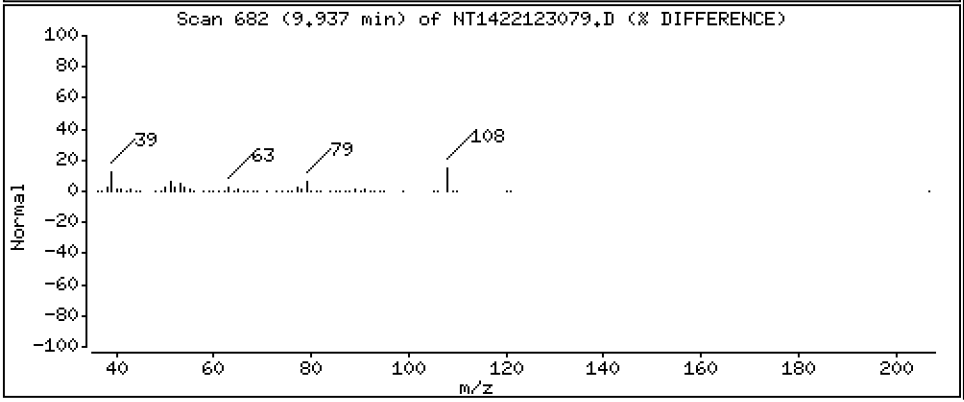












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

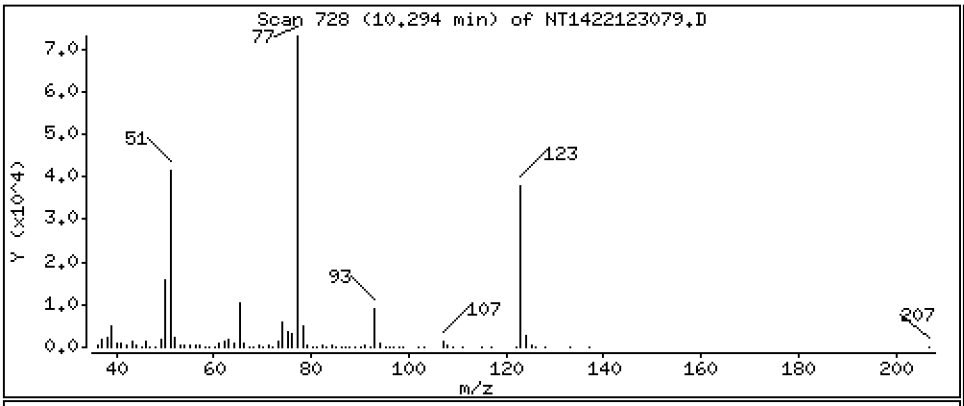
Operator: VTS

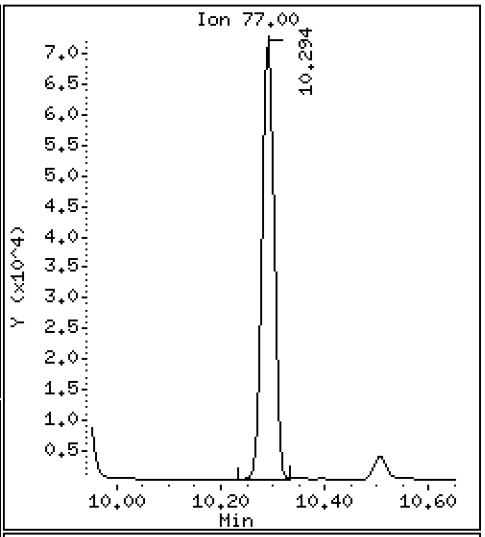
Column phase: ZB-5msi

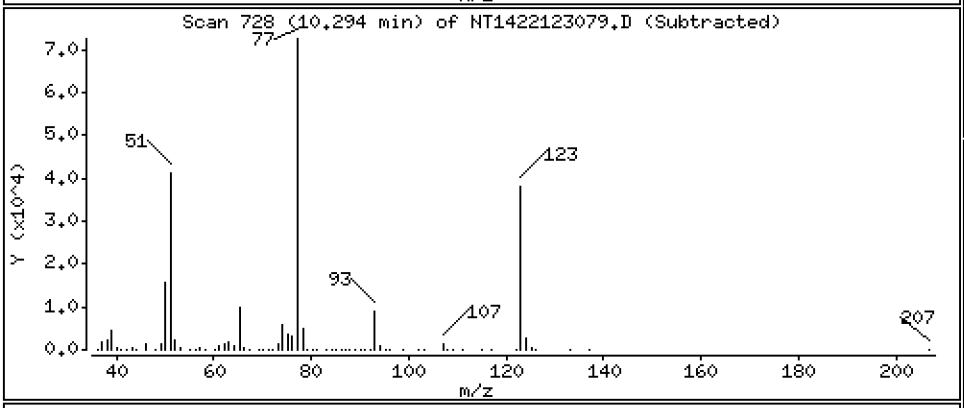
Column diameter: 0.25

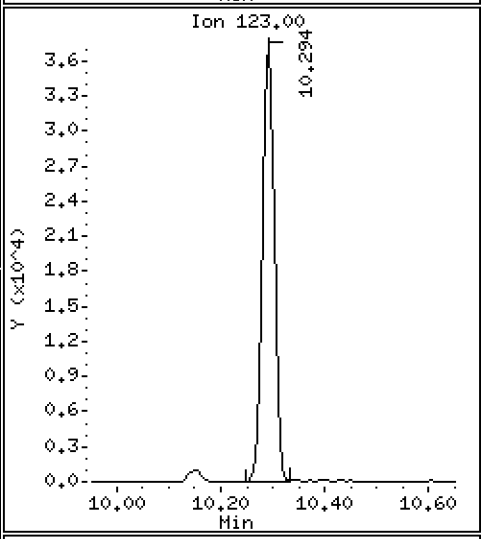
19 Nitrobenzene

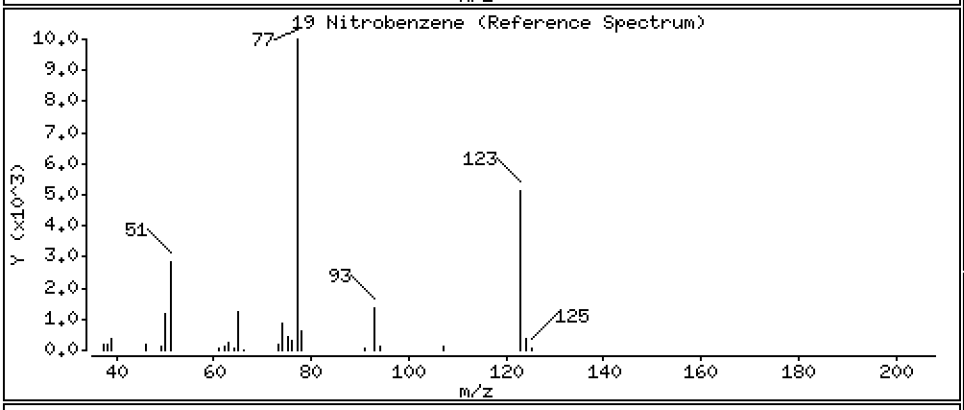
Concentration: 4.420 ug/mL

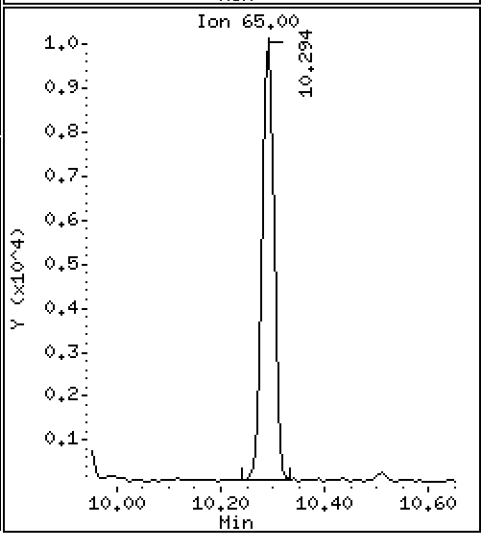


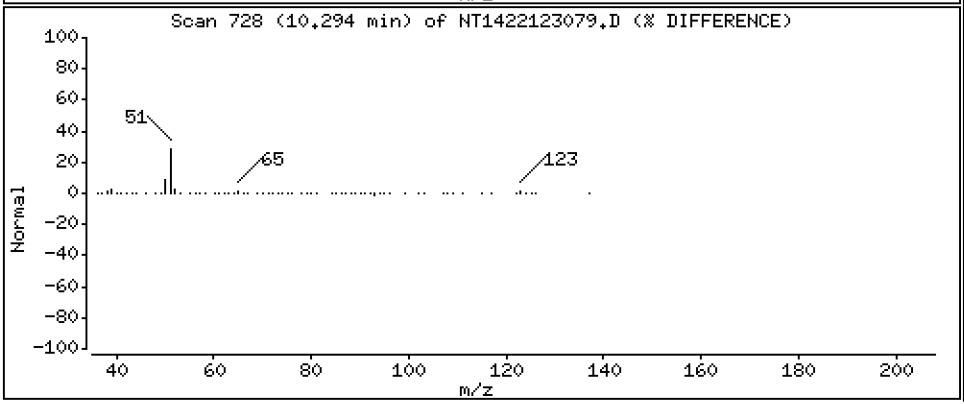












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

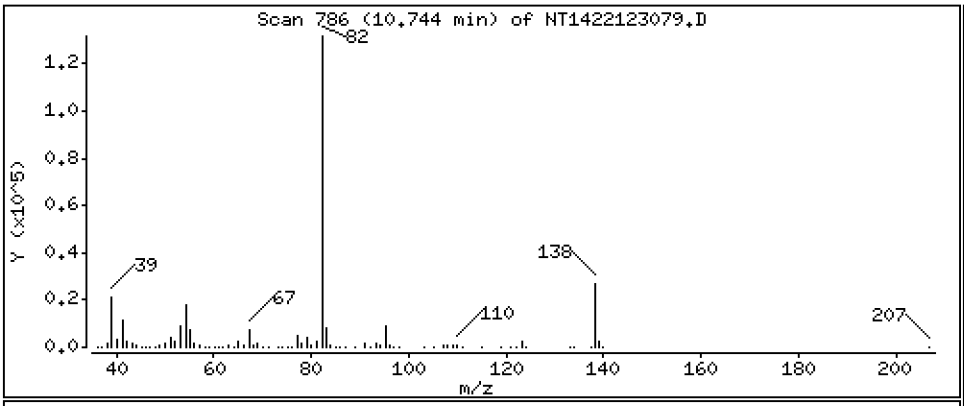
Operator: VTS

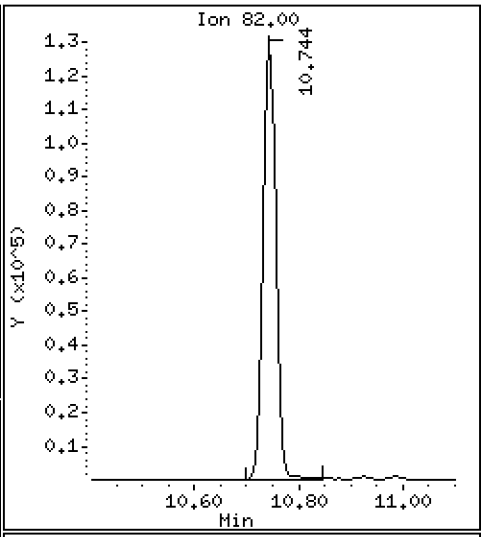
Column phase: ZB-5msi

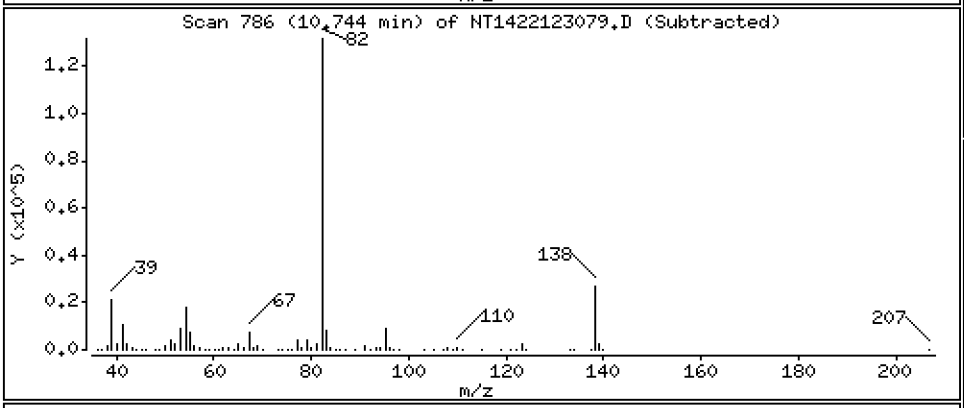
Column diameter: 0.25

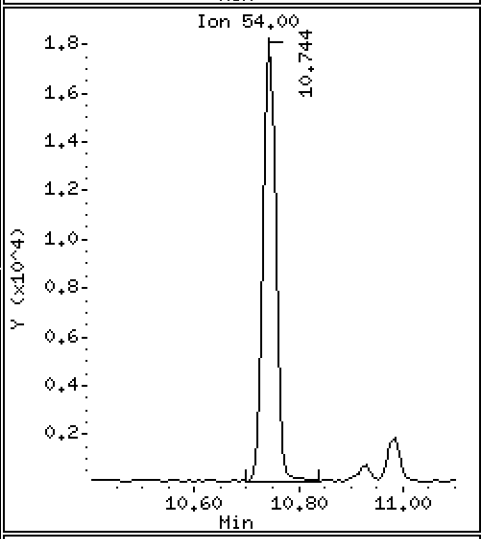
20 Isophorone

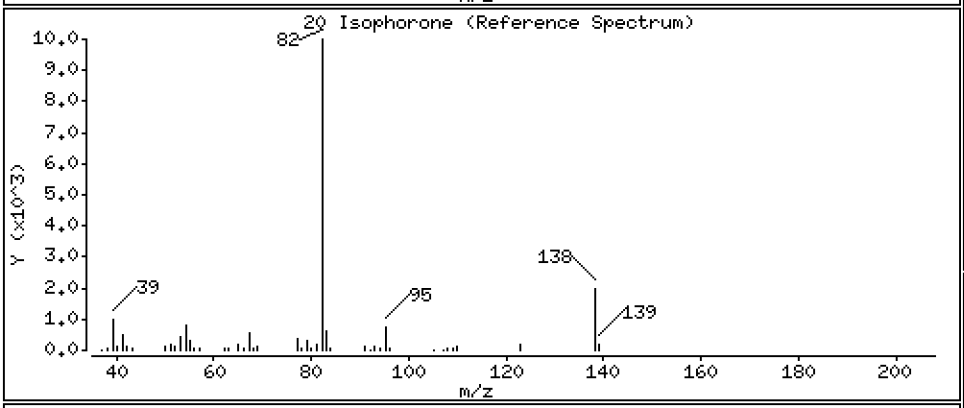
Concentration: 6.643 ug/mL

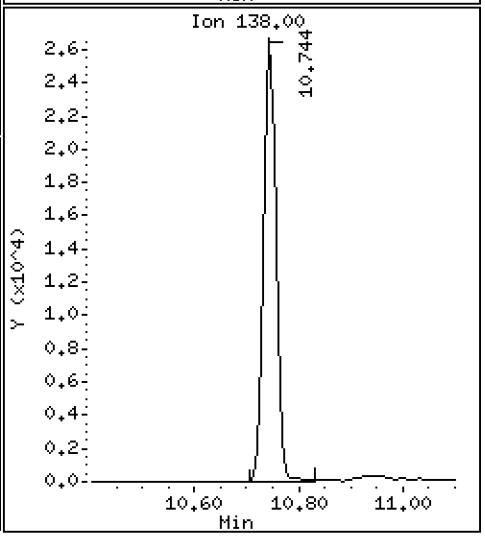


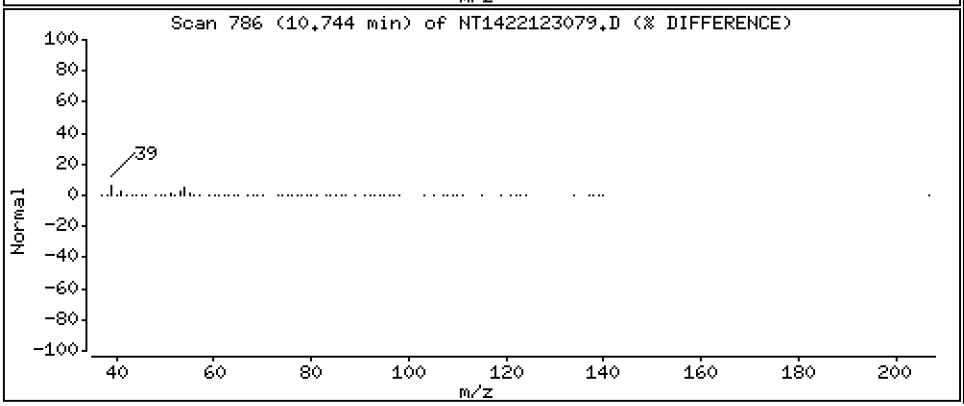












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

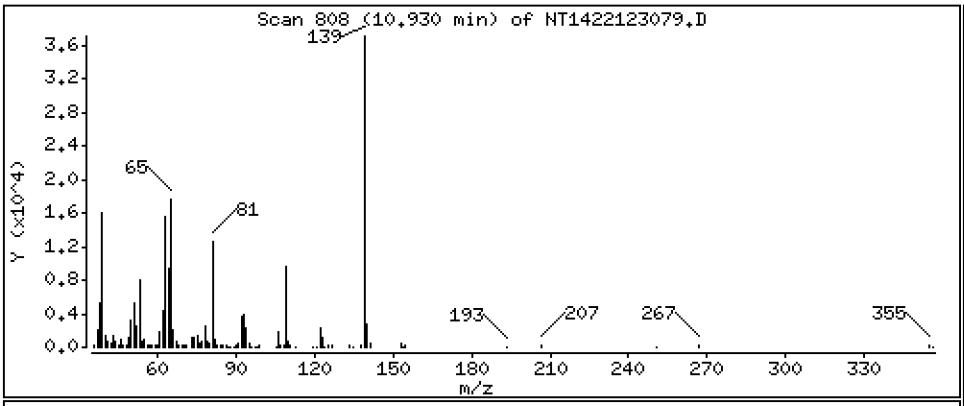
Operator: VTS

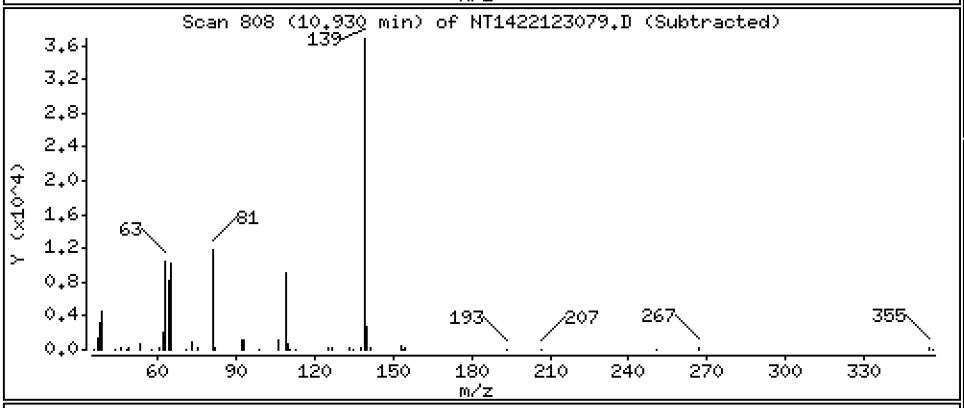
Column phase: ZB-5msi

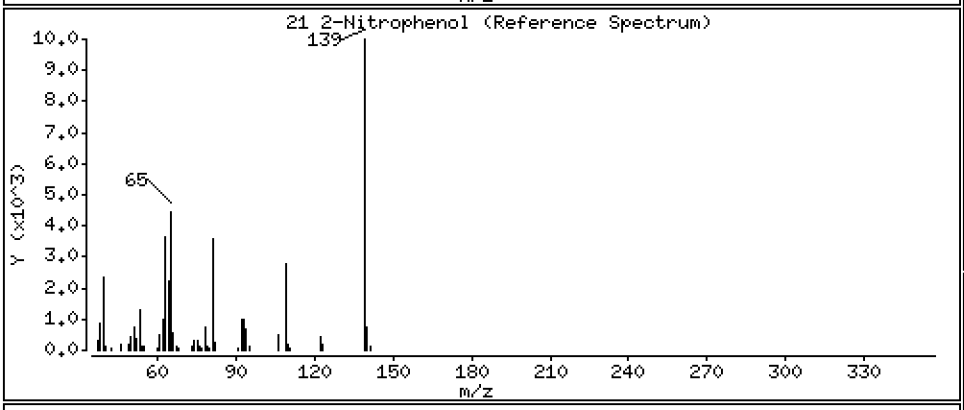
Column diameter: 0.25

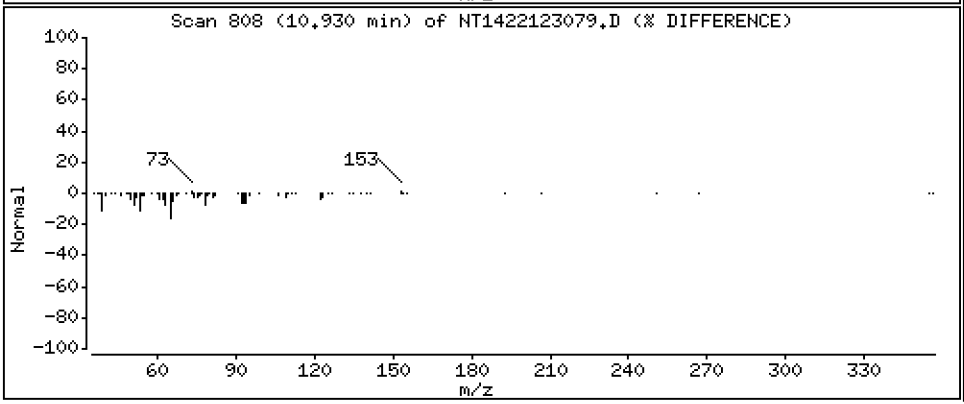
21 2-Nitrophenol

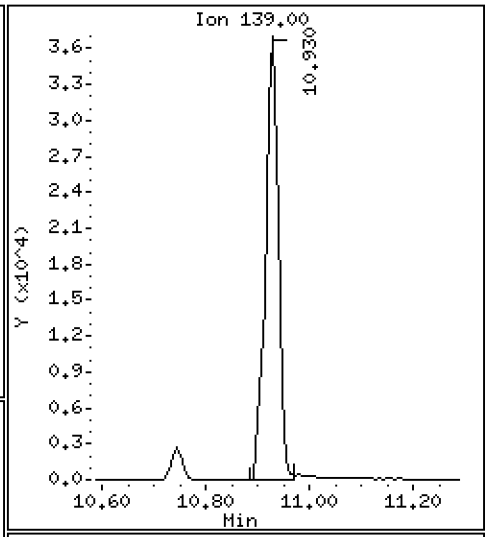
Concentration: 4.131 ug/mL

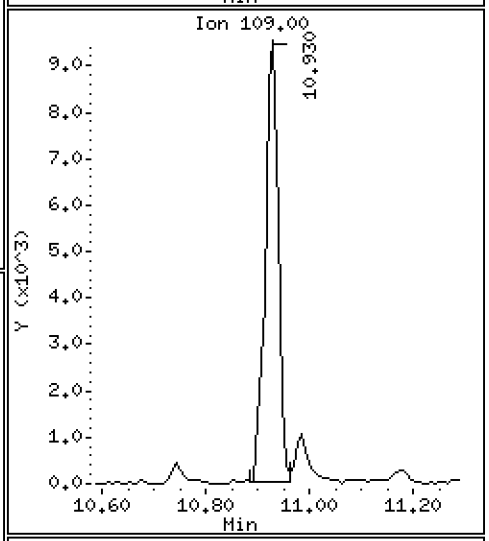


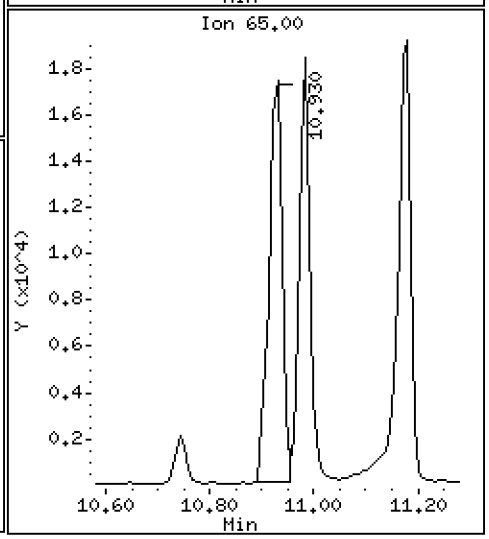












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

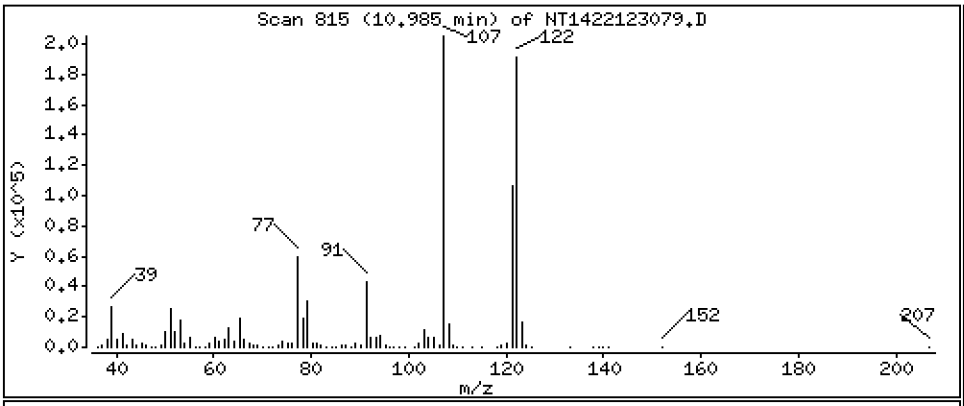
Operator: VTS

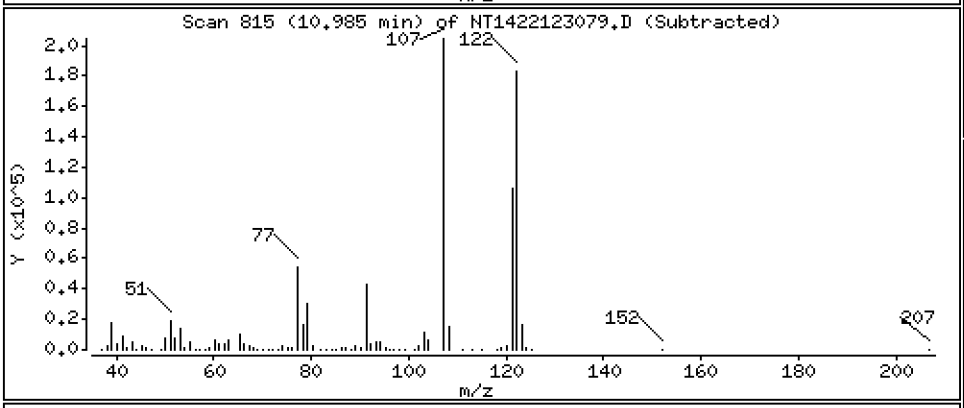
Column phase: ZB-5msi

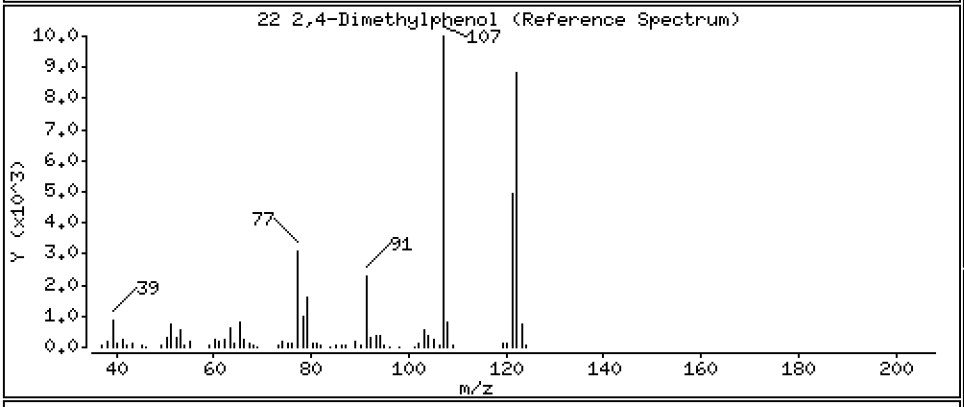
Column diameter: 0.25

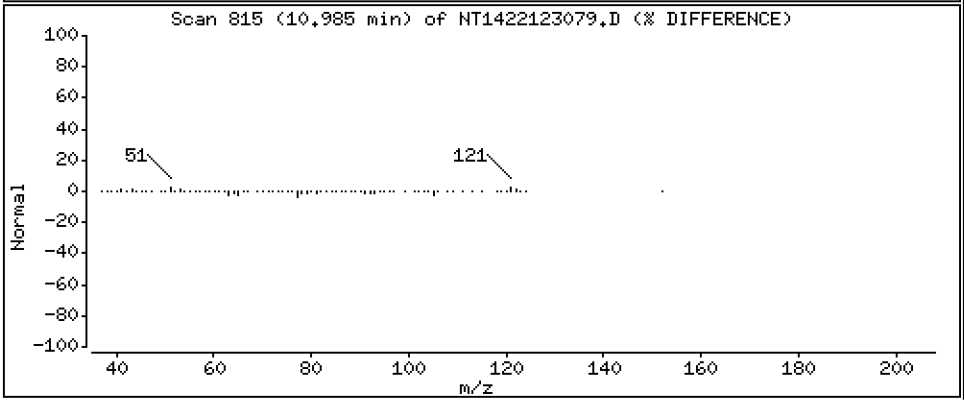
22 2,4-Dimethylphenol

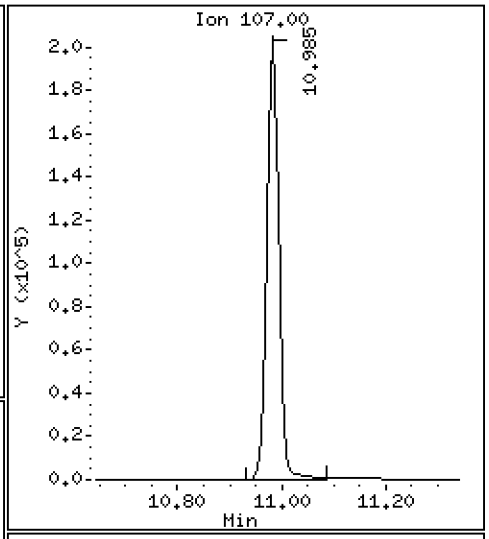
Concentration: 11.72 ug/mL

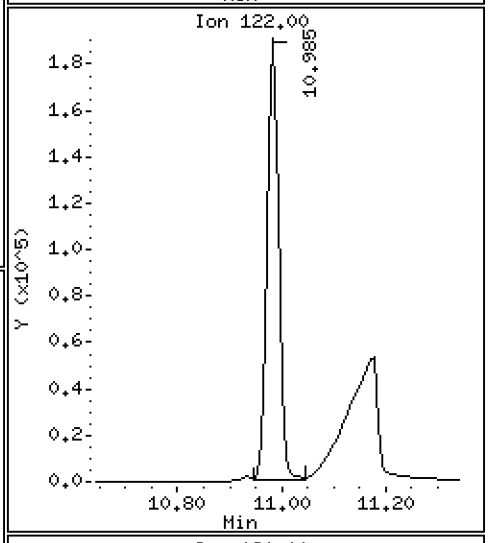


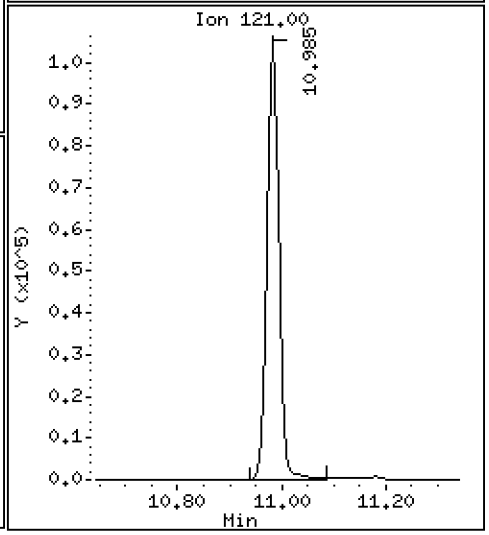












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123079.D

Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

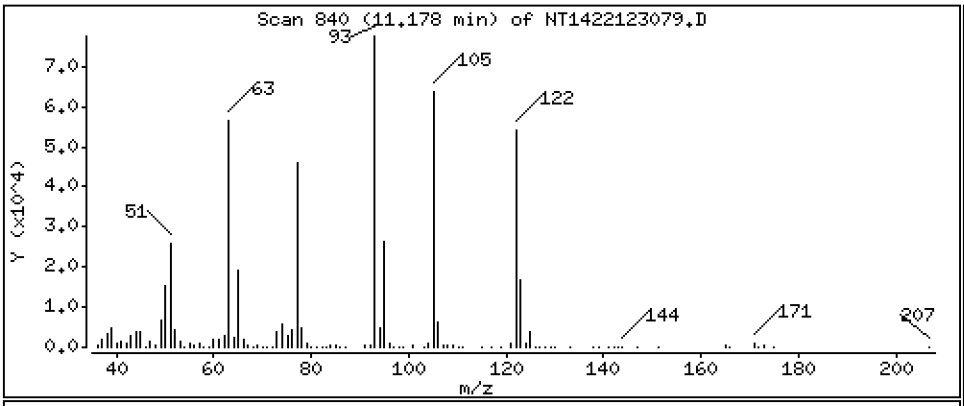
Operator: VTS

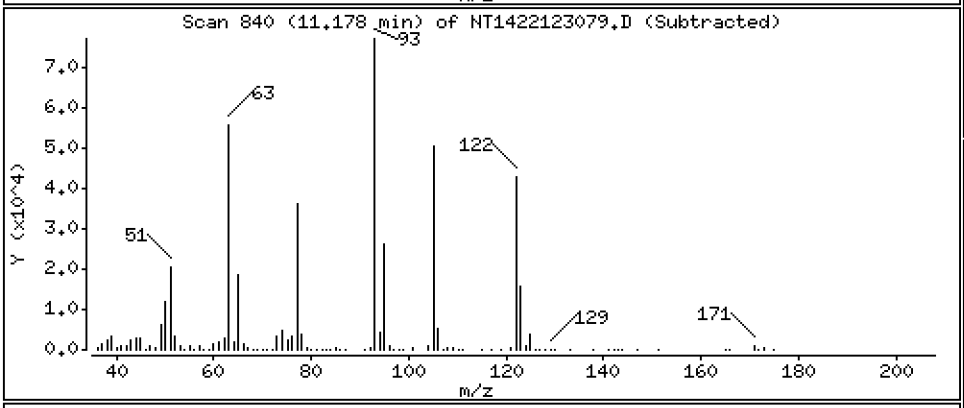
Column phase: ZB-5msi

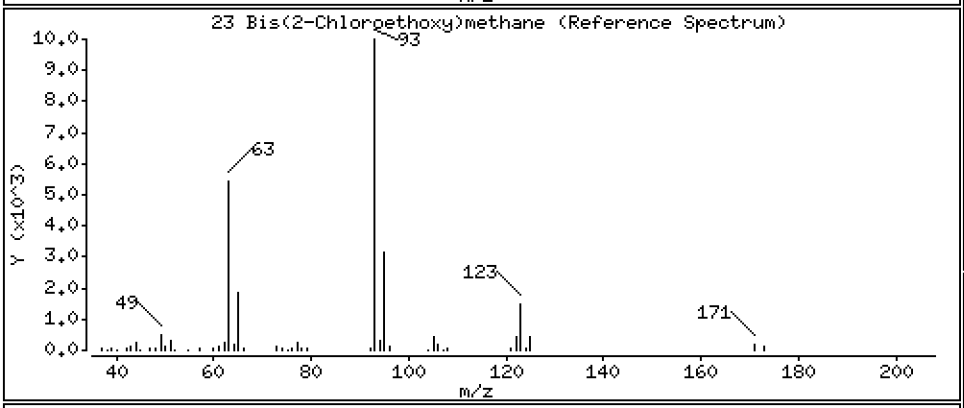
Column diameter: 0.25

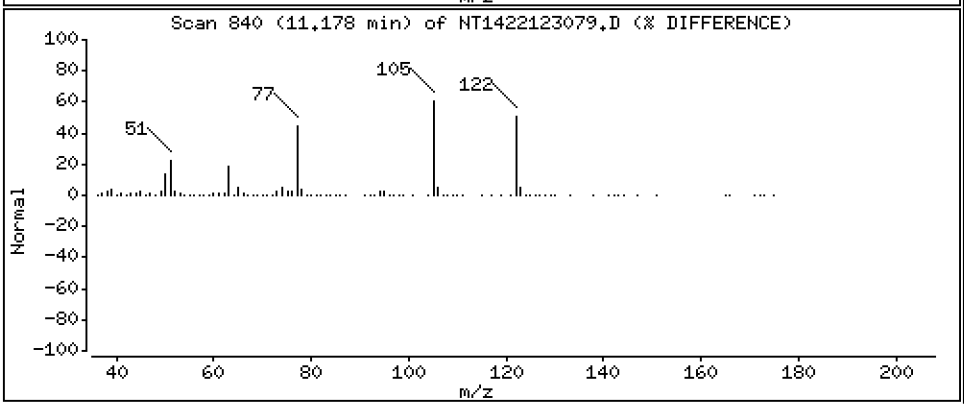
23 Bis(2-Chloroethoxy)methane

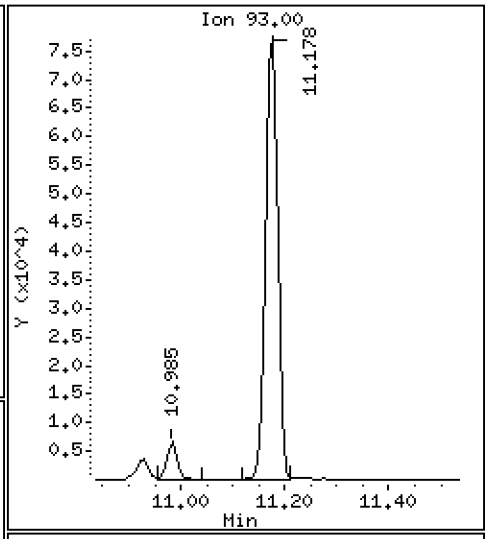
Concentration: 4.828 ug/mL

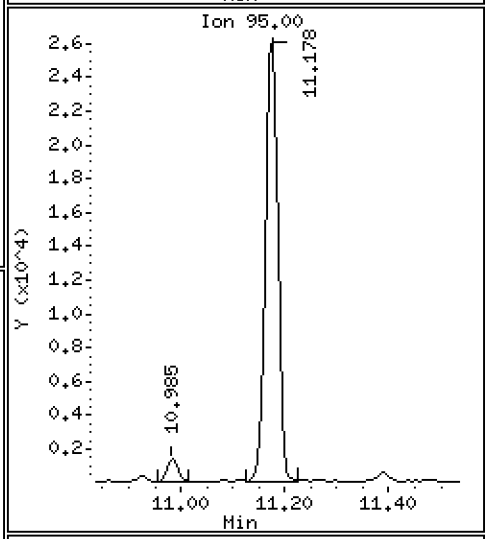


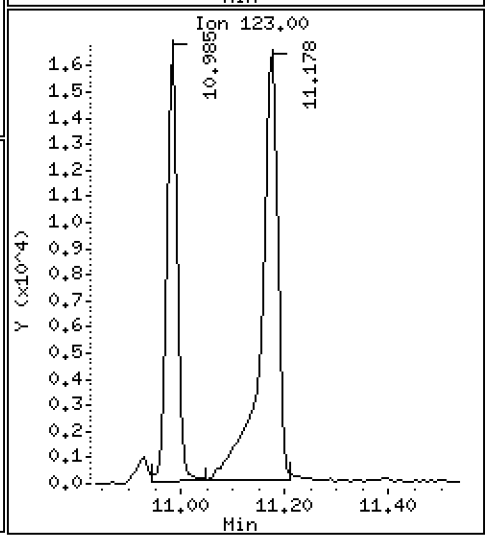












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

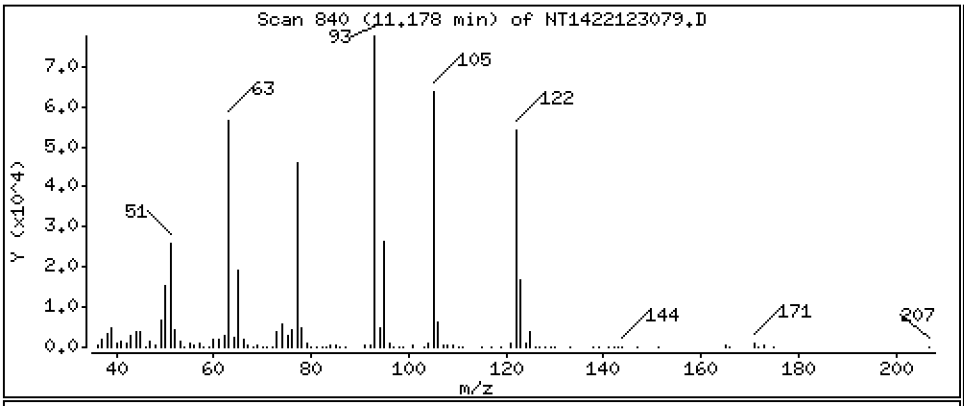
Operator: VTS

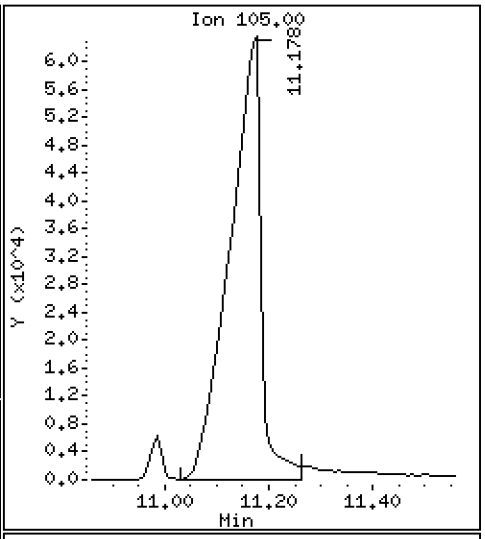
Column phase: ZB-5msi

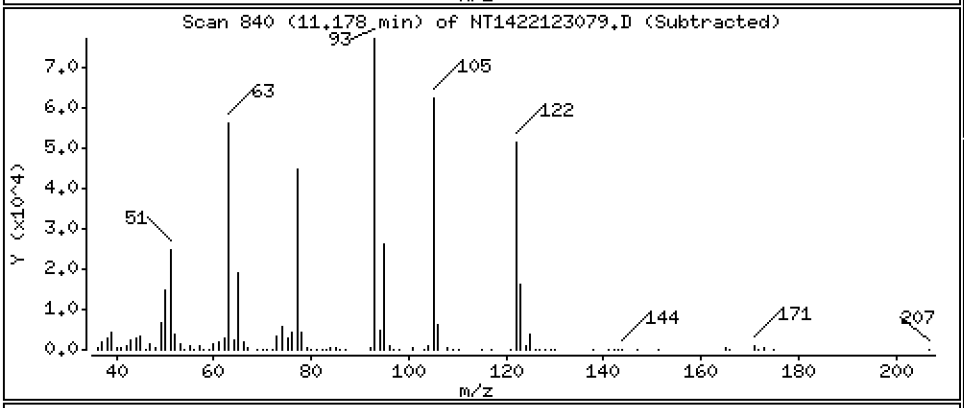
Column diameter: 0.25

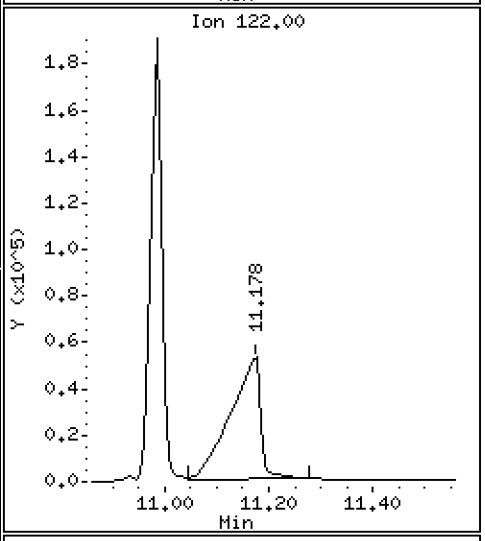
24 Benzoic acid

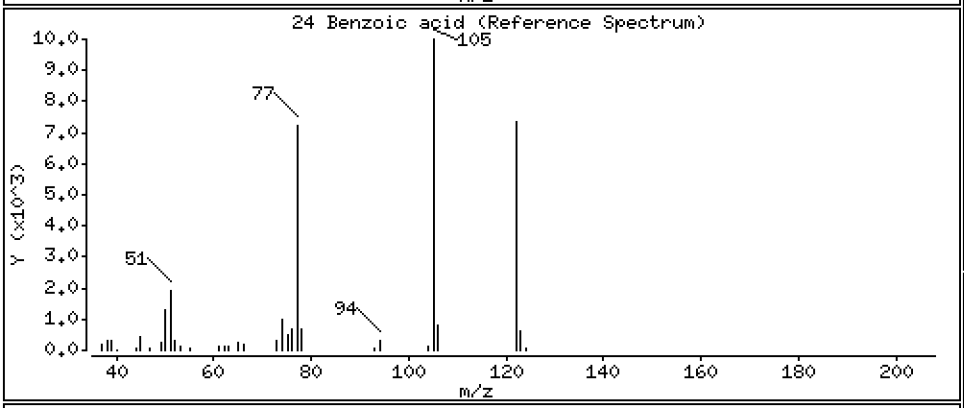
Concentration: 16.41 ug/mL

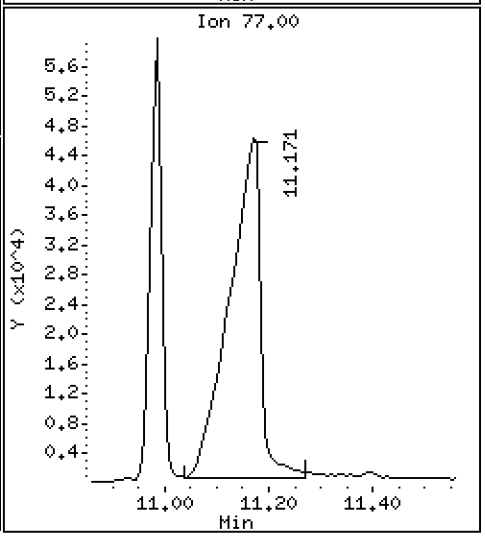


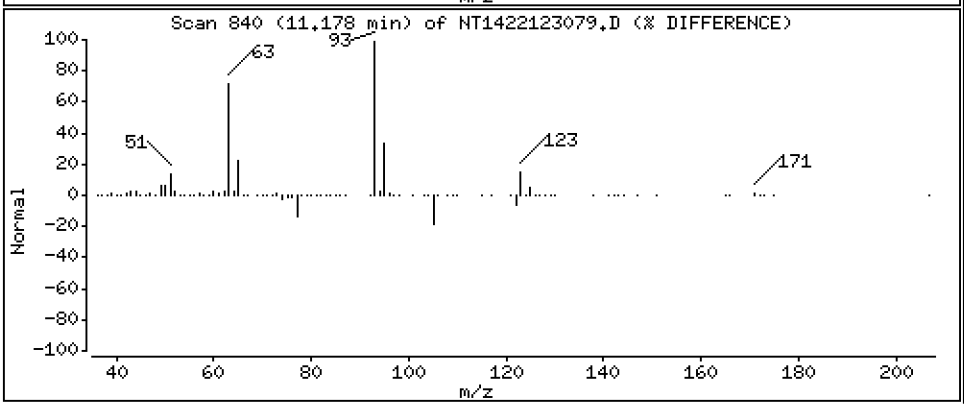












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

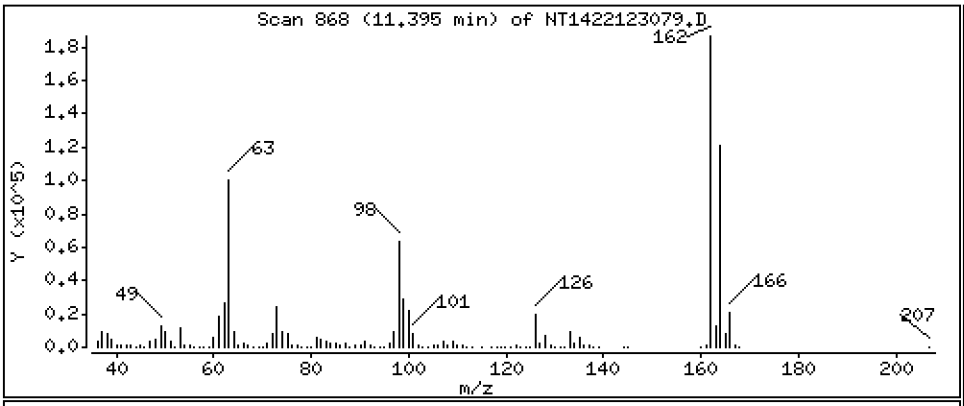
Operator: VTS

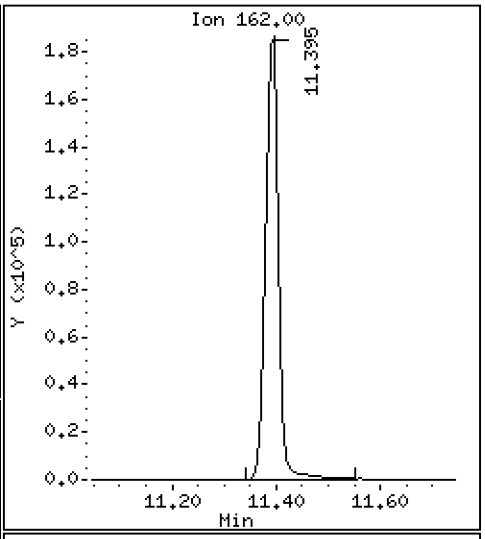
Column phase: ZB-5msi

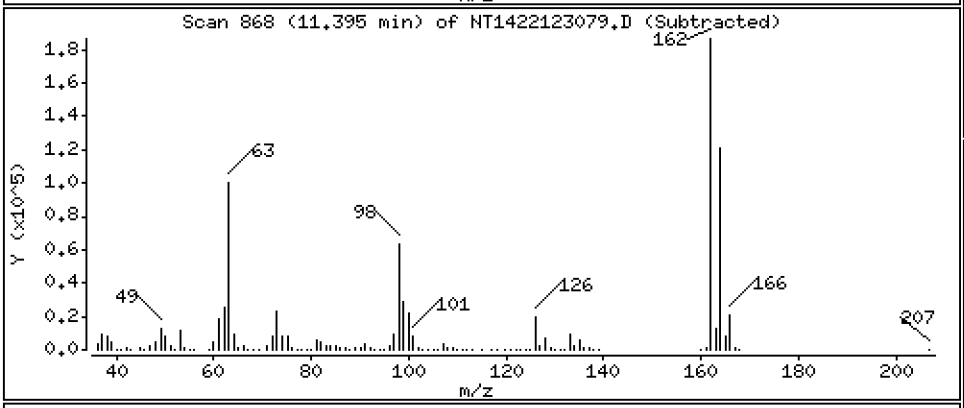
Column diameter: 0.25

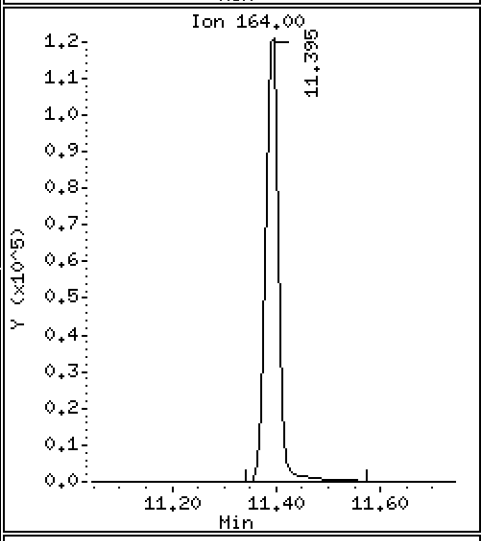
25 2,4-Dichlorophenol

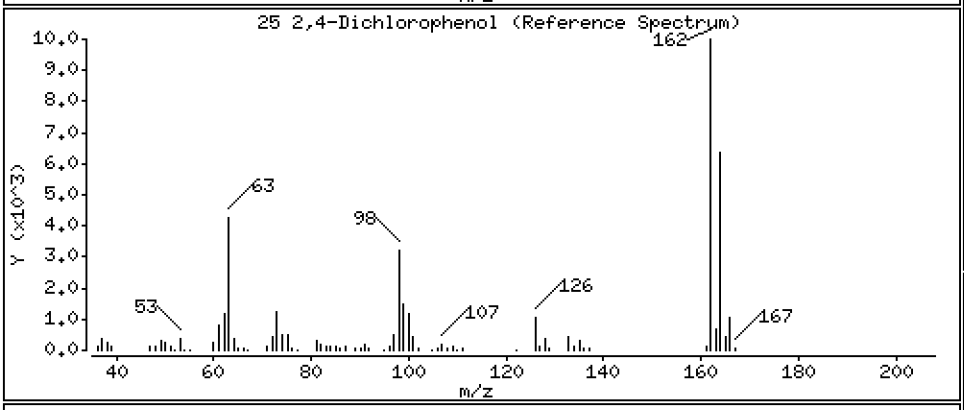
Concentration: 15.17 ug/mL

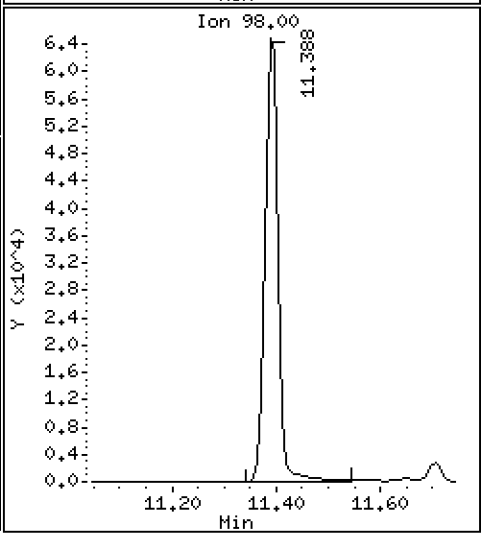


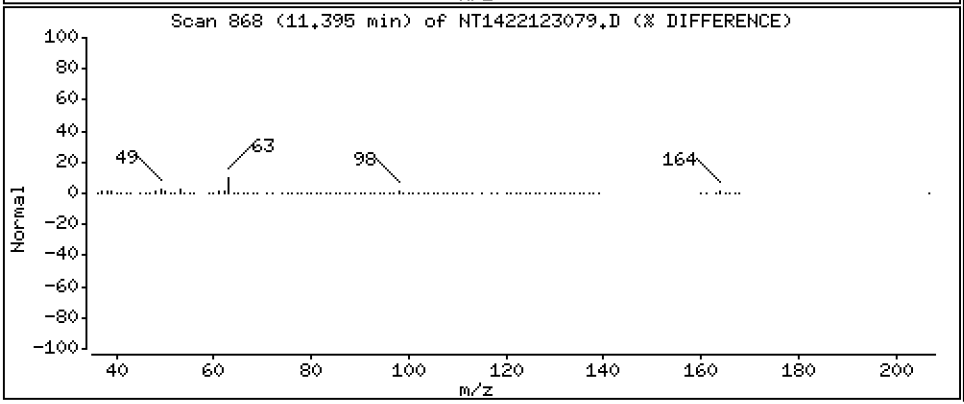












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

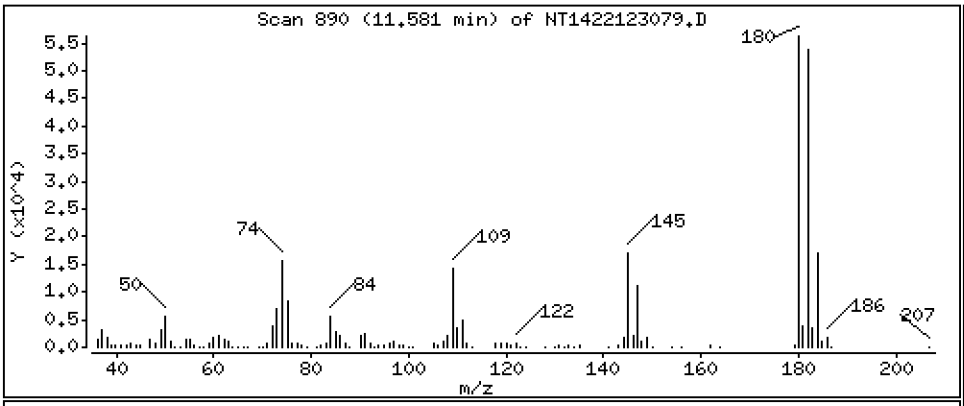
Operator: VTS

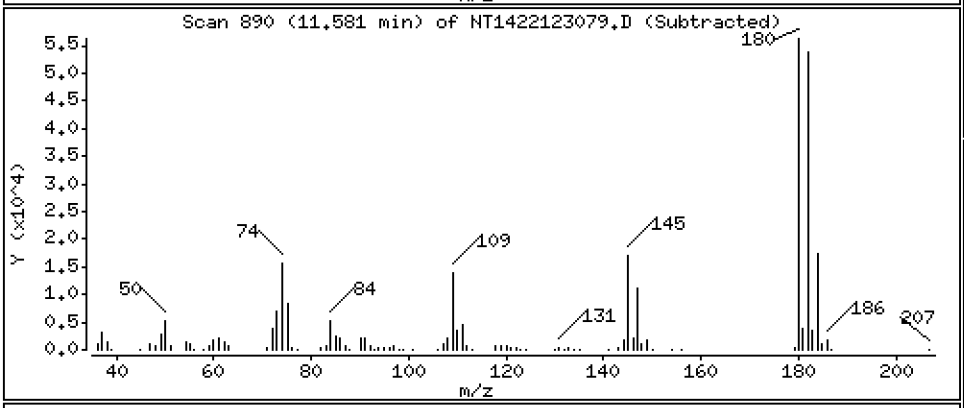
Column phase: ZB-5msi

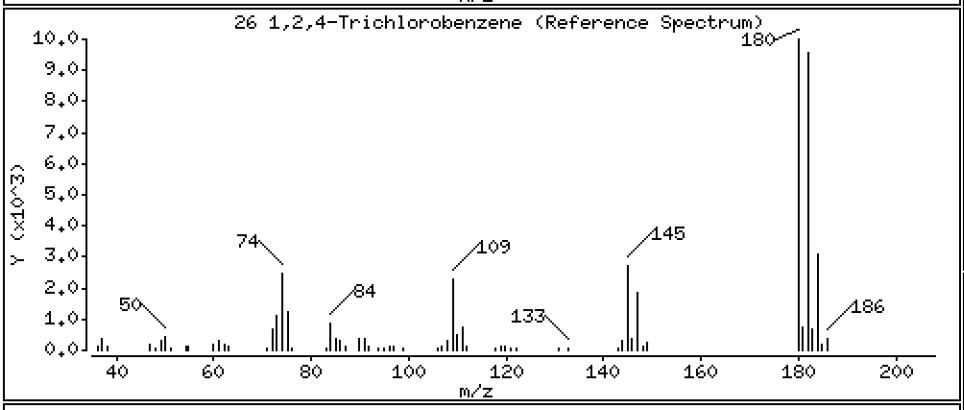
Column diameter: 0.25

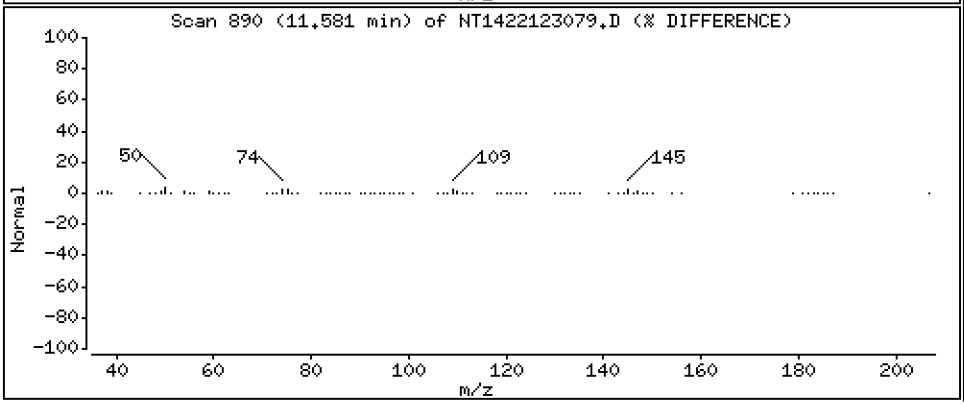
26 1,2,4-Trichlorobenzene

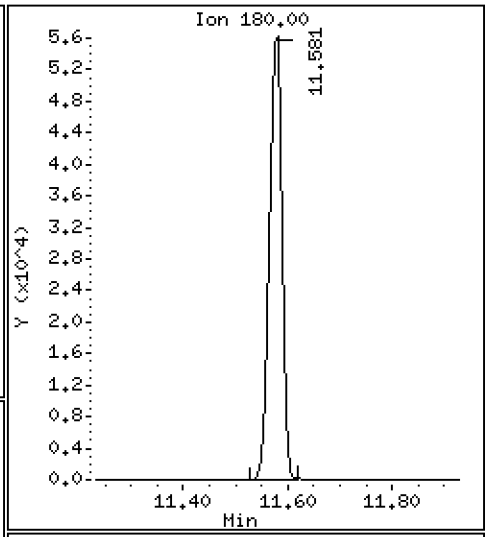
Concentration: 3.803 ug/mL

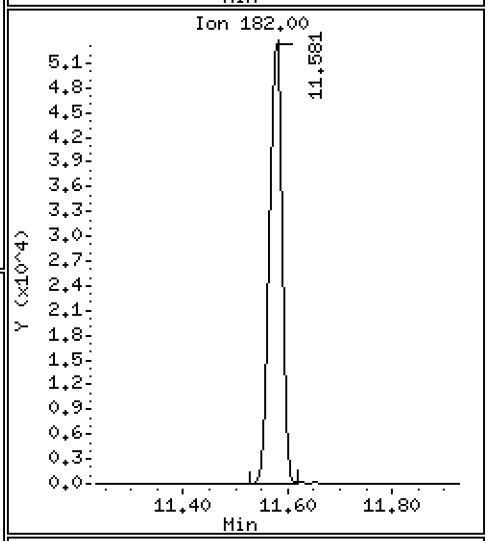


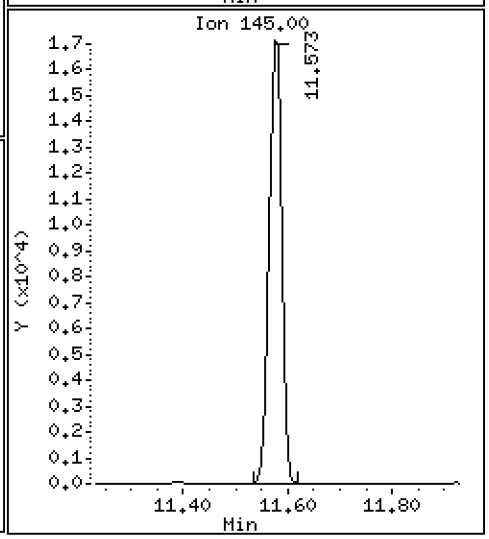












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

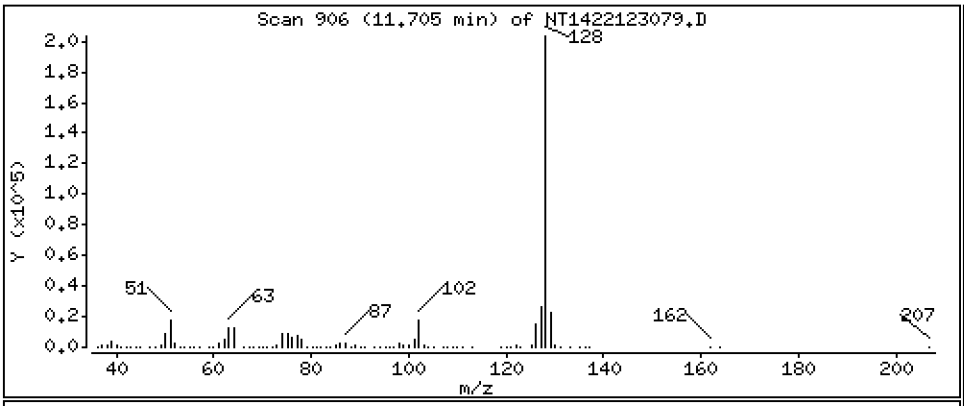
Operator: VTS

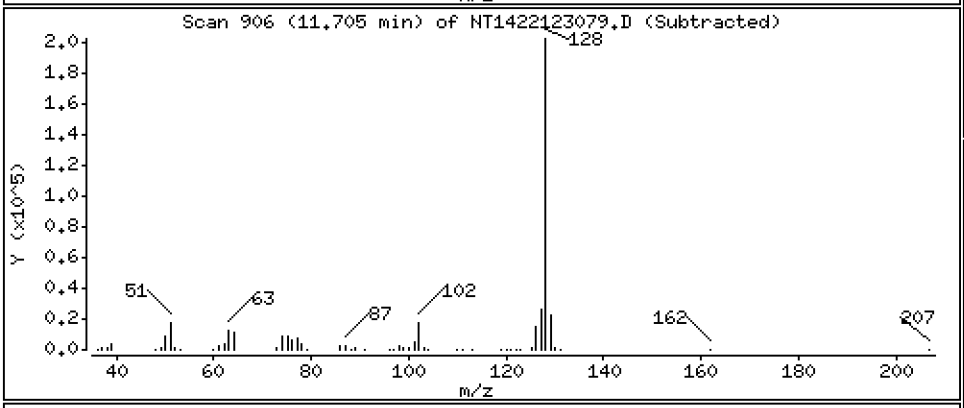
Column phase: ZB-5msi

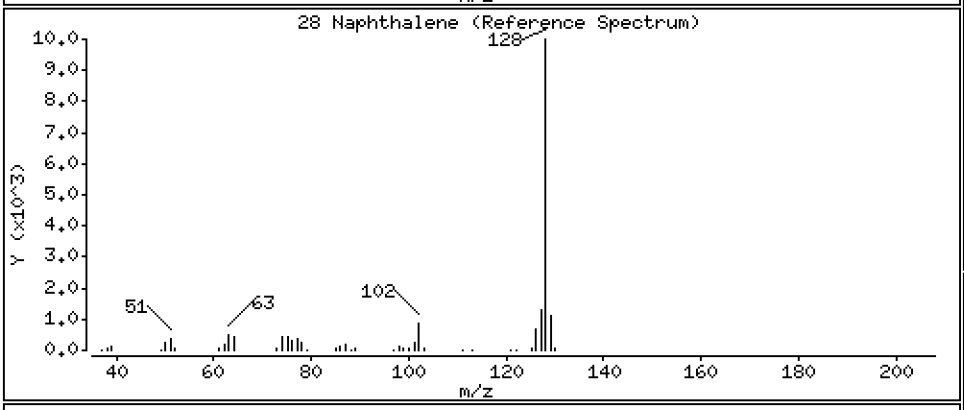
Column diameter: 0.25

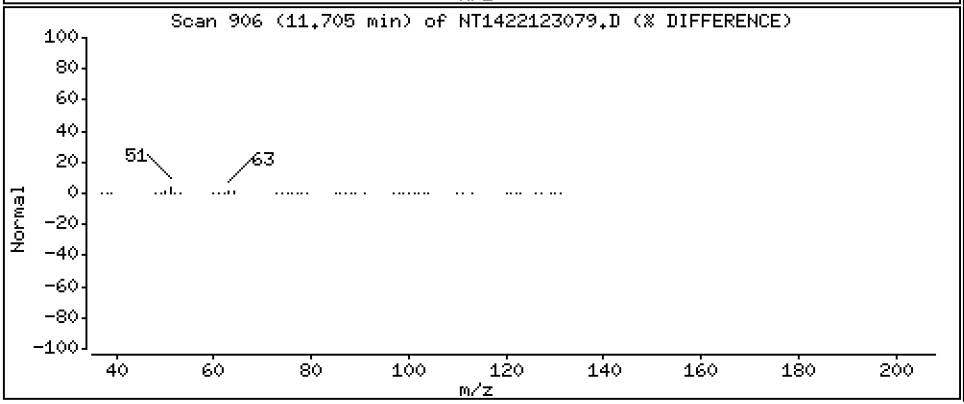
28 Naphthalene

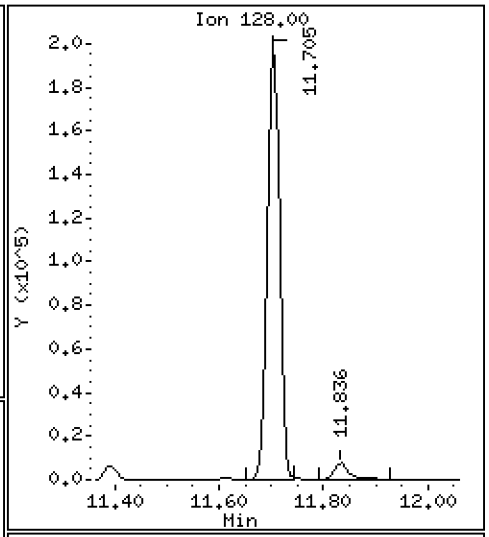
Concentration: 4.172 ug/mL

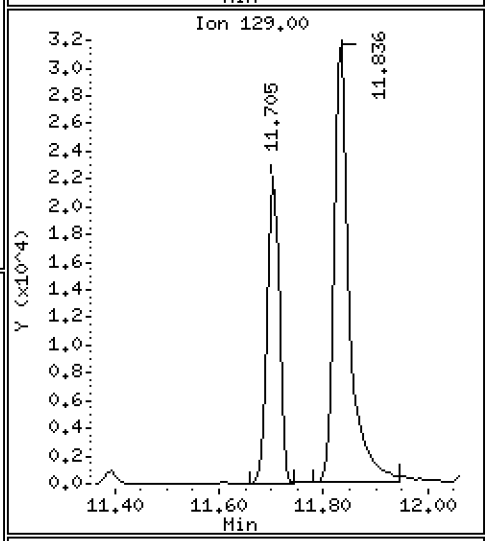


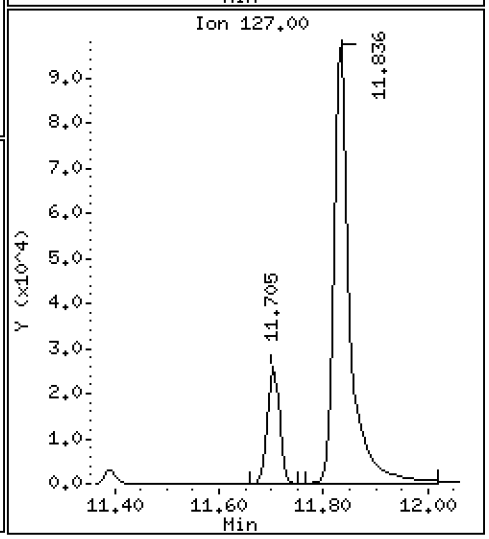












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

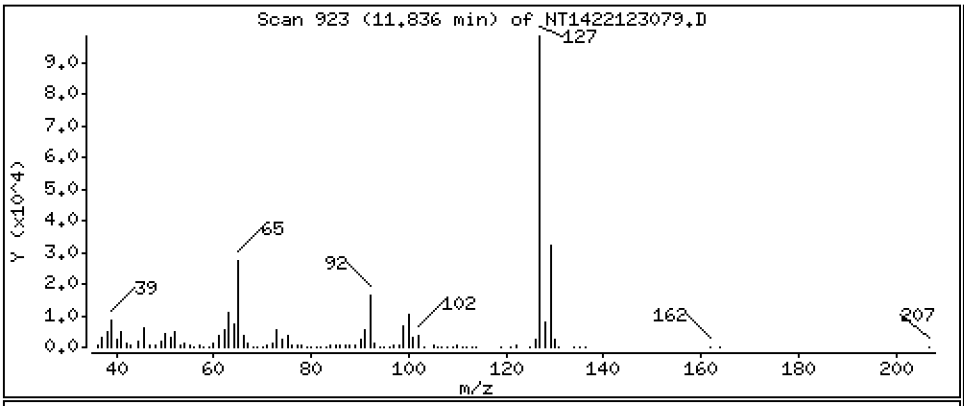
Operator: VTS

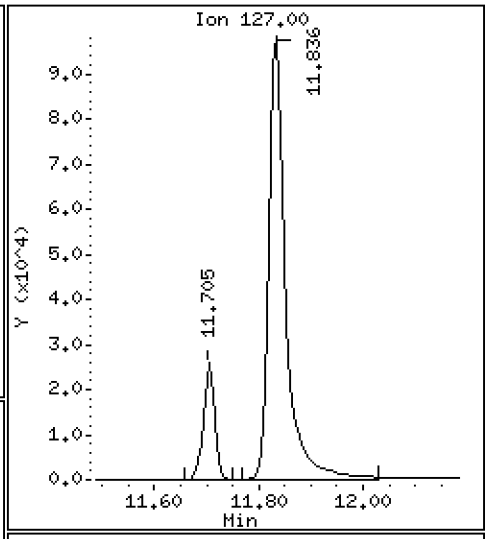
Column phase: ZB-5msi

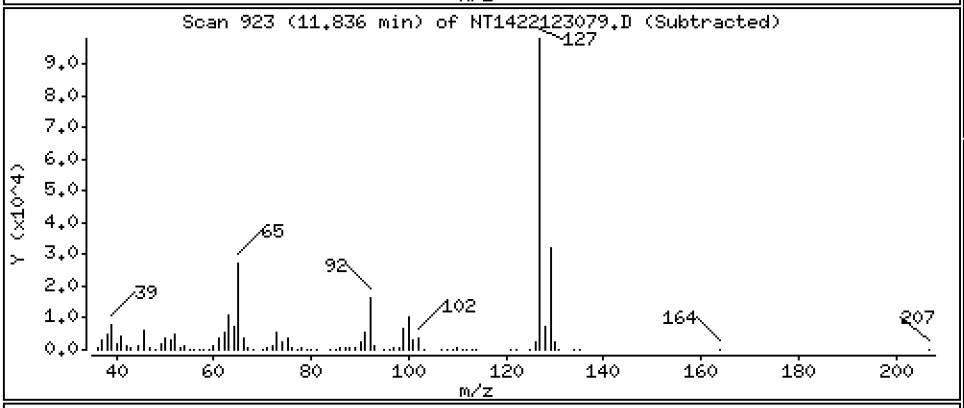
Column diameter: 0.25

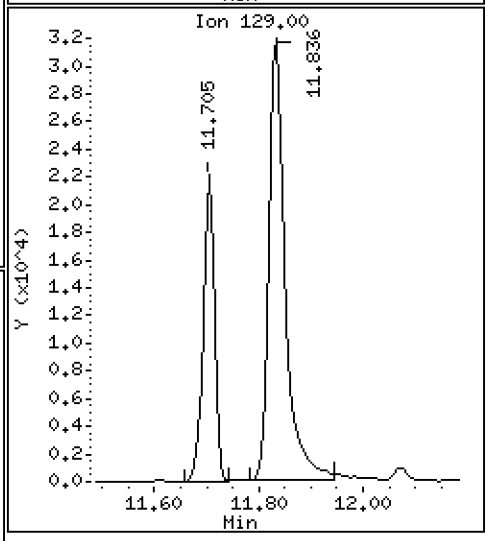
29 4-Chloroaniline

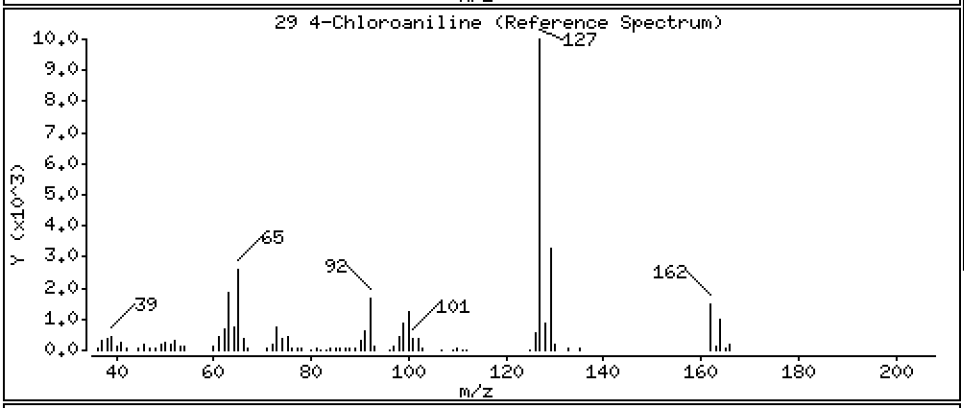
Concentration: 7.437 ug/mL

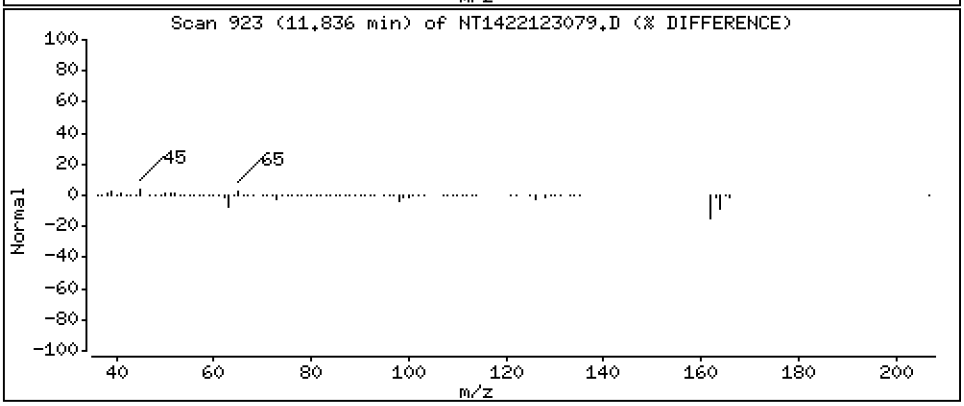












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

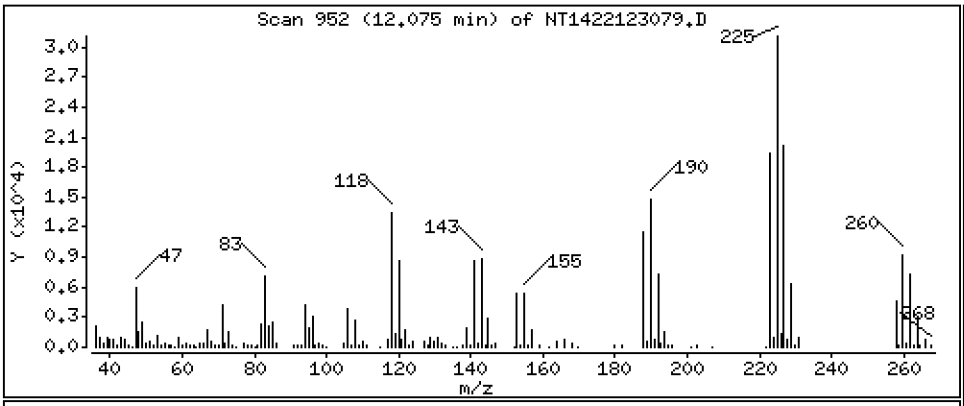
Operator: VTS

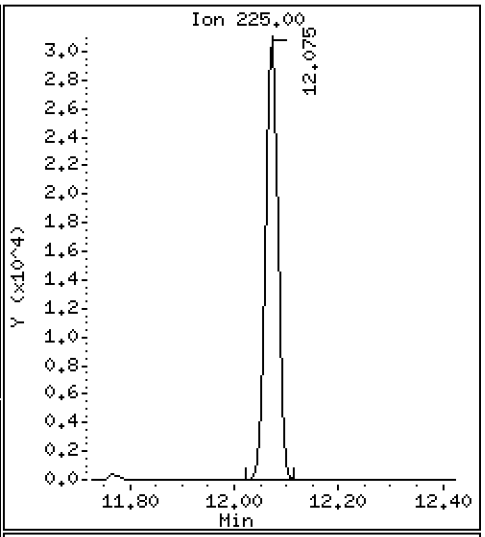
Column phase: ZB-5msi

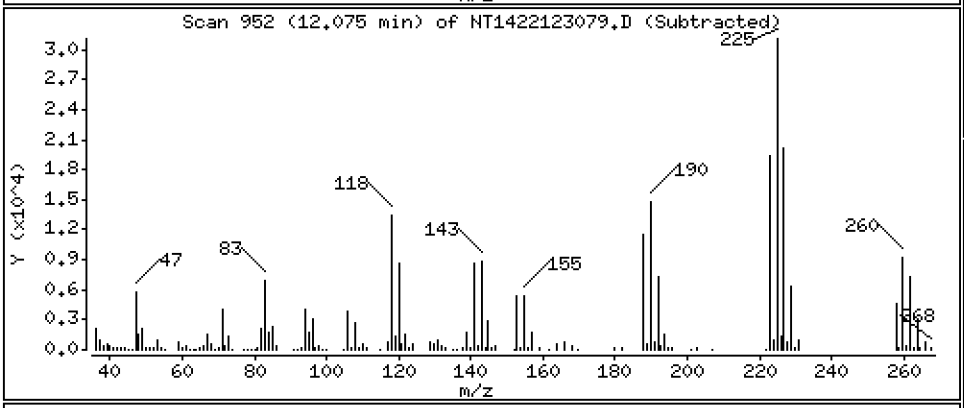
Column diameter: 0.25

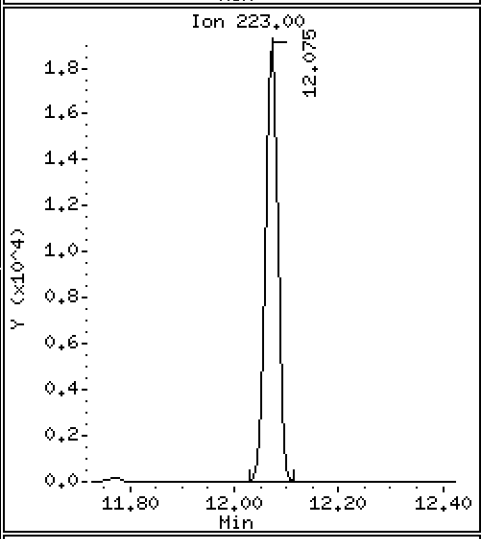
30 Hexachlorobutadiene

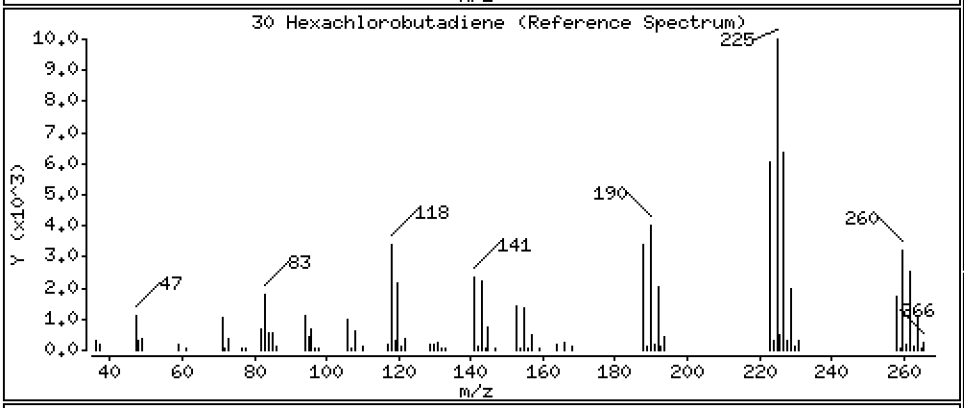
Concentration: 4.111 ug/mL

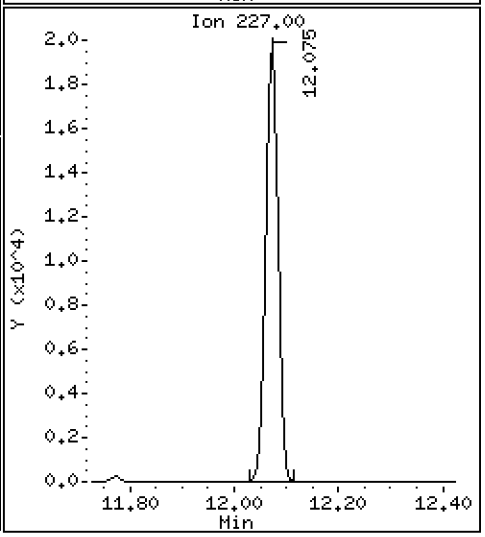


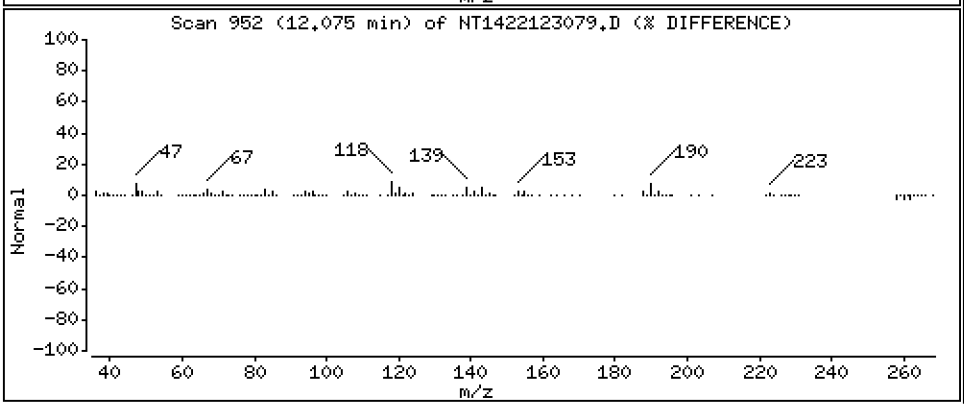












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

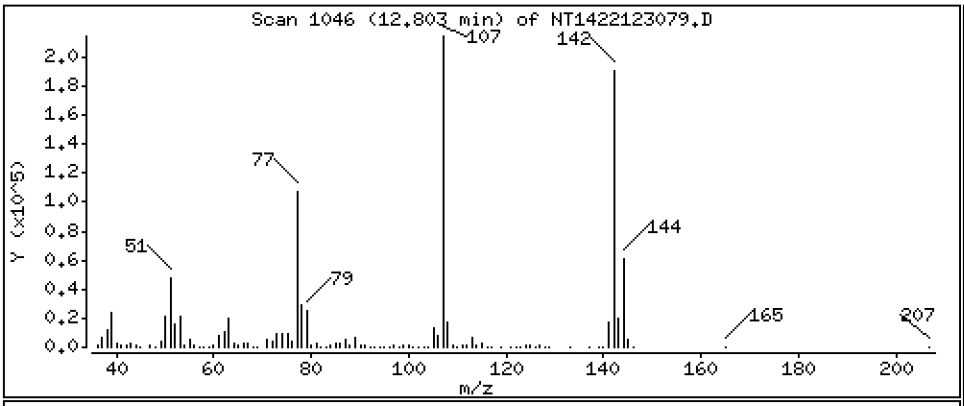
Operator: VTS

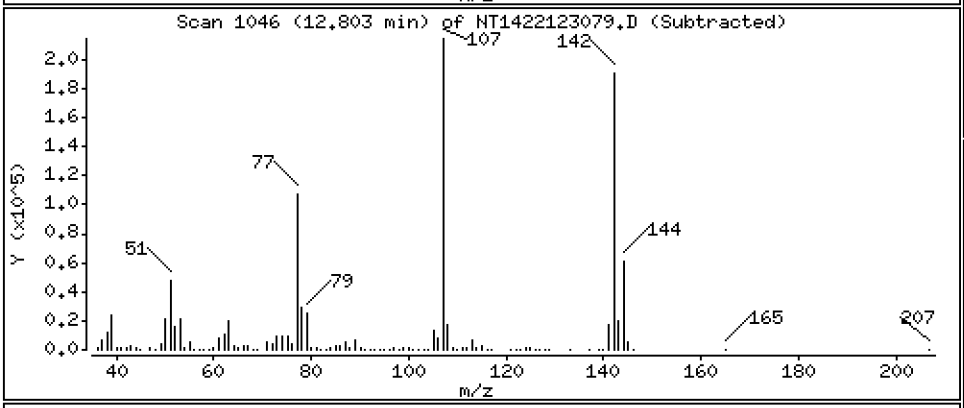
Column phase: ZB-5msi

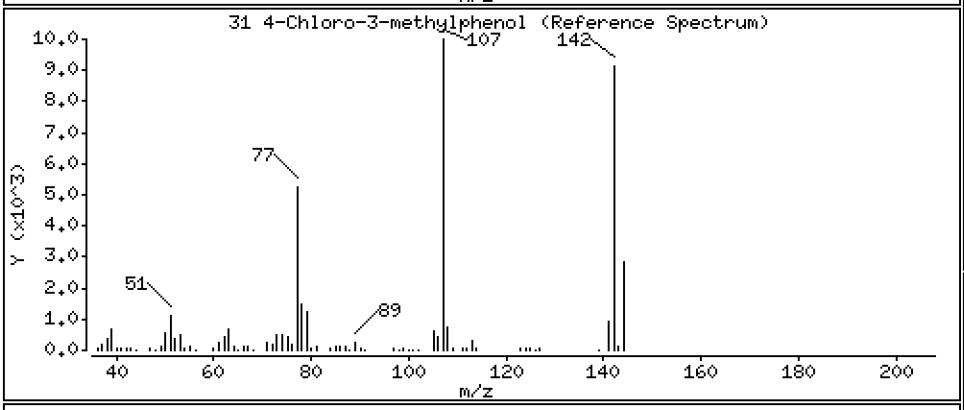
Column diameter: 0.25

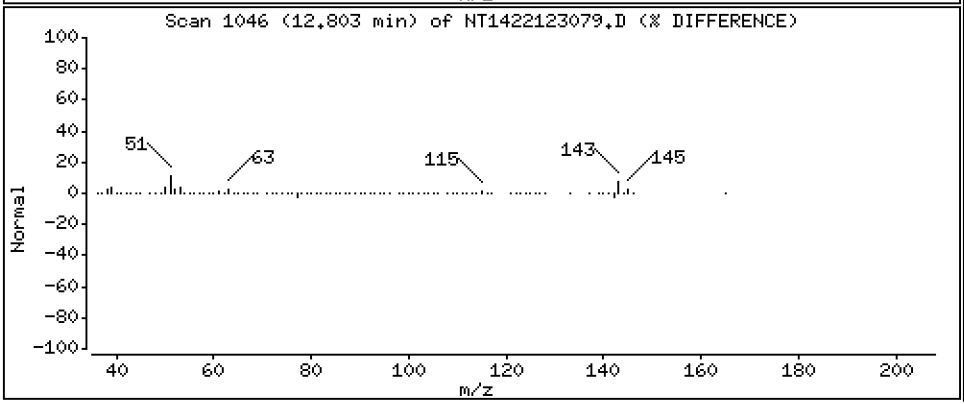
31 4-Chloro-3-methylphenol

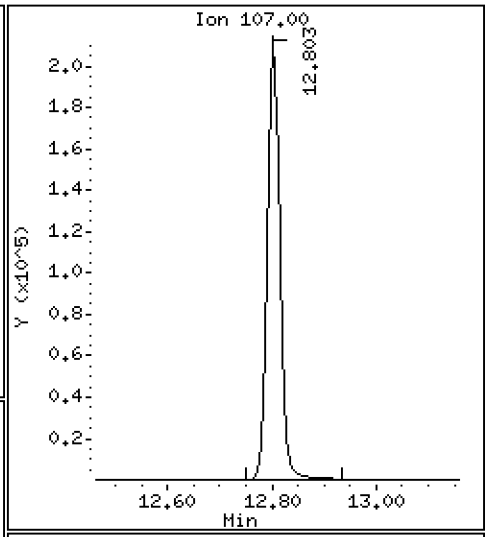
Concentration: 16.13 ug/mL

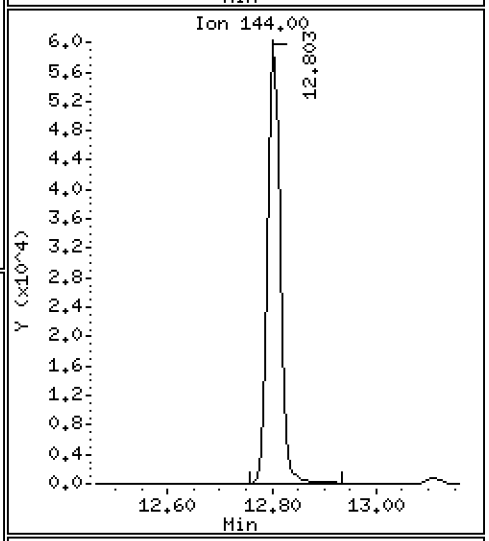


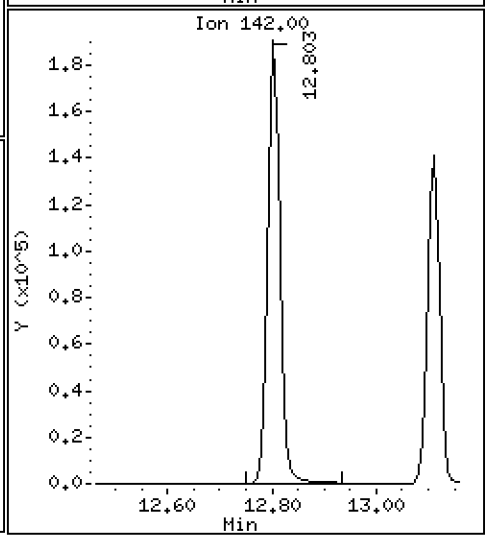












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

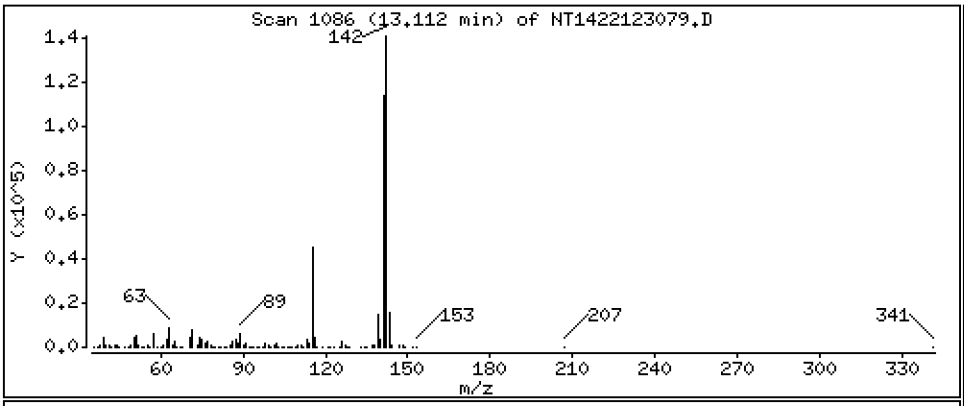
Operator: VTS

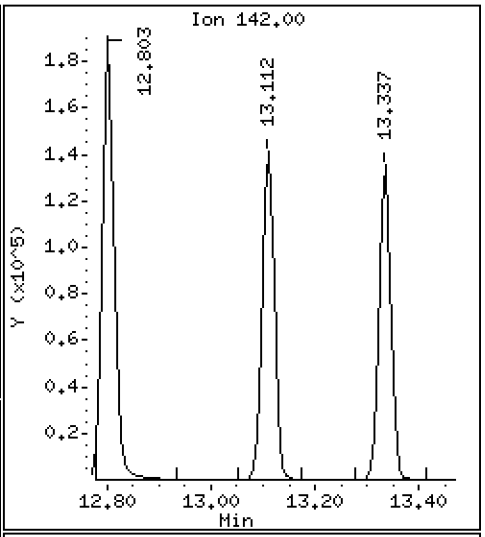
Column phase: ZB-5msi

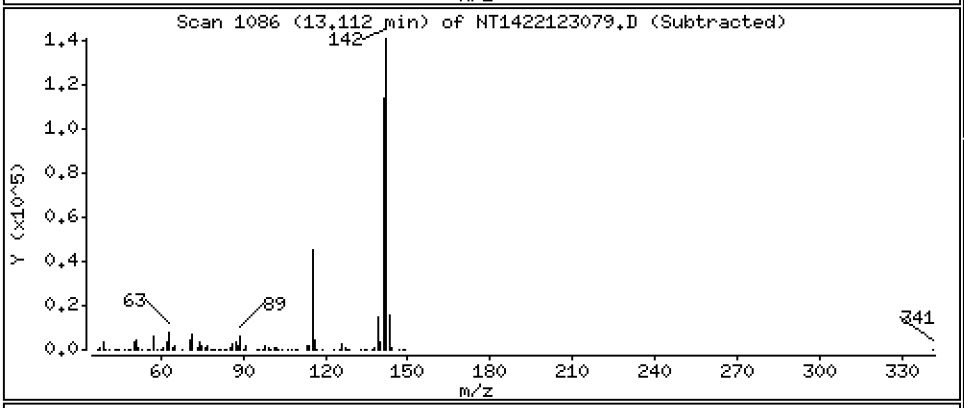
Column diameter: 0.25

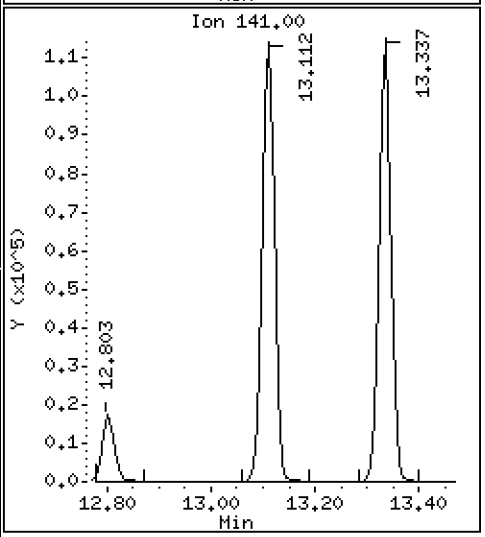
32 2-Methylnaphthalene

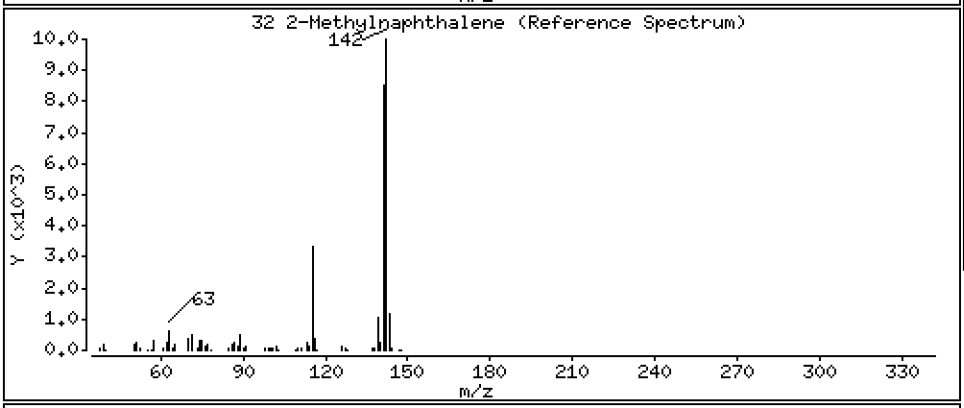
Concentration: 4.039 ug/mL

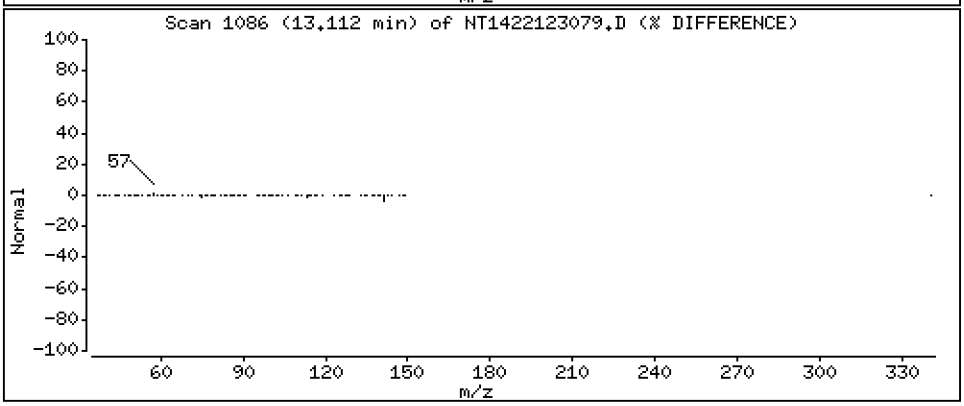












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123079.D

Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

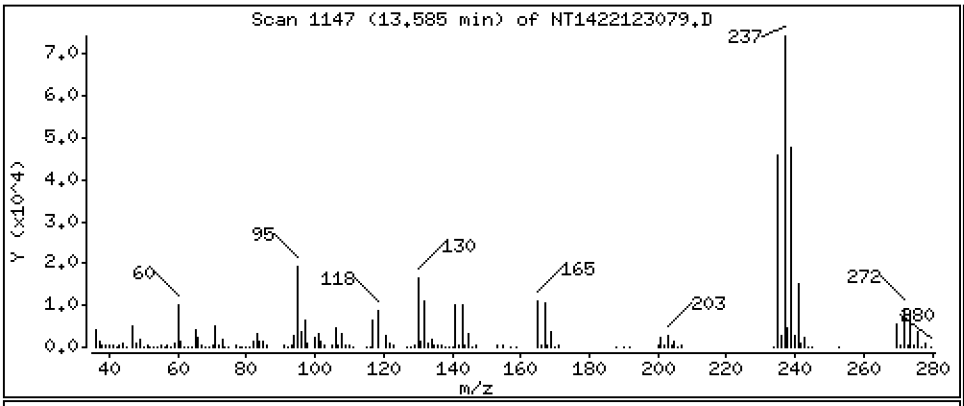
Operator: VTS

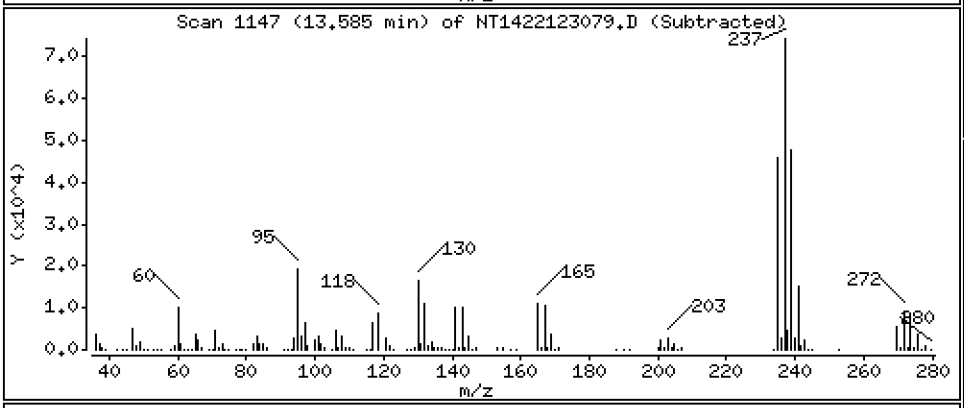
Column phase: ZB-5msi

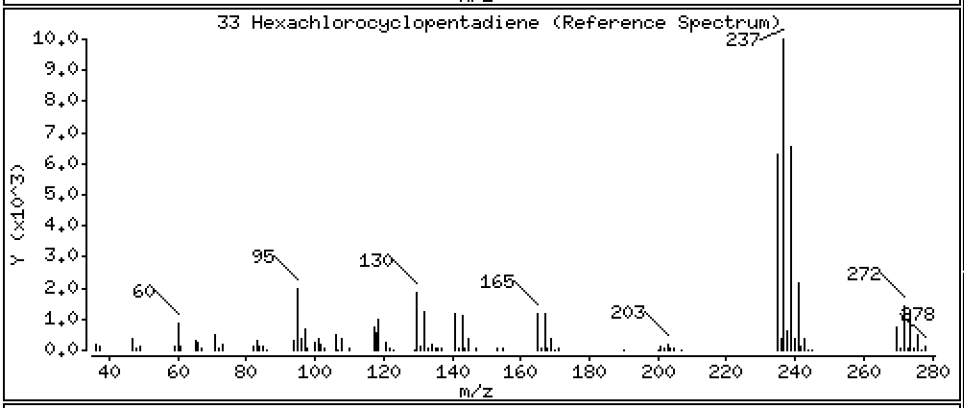
Column diameter: 0.25

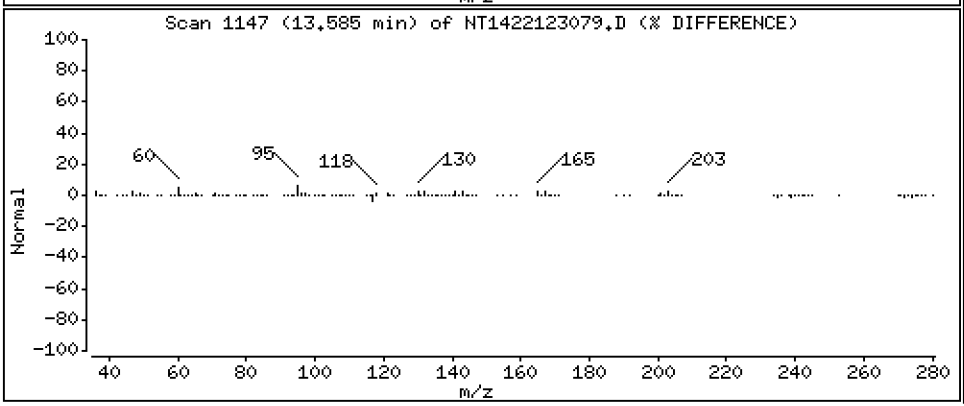
33 Hexachlorocyclopentadiene

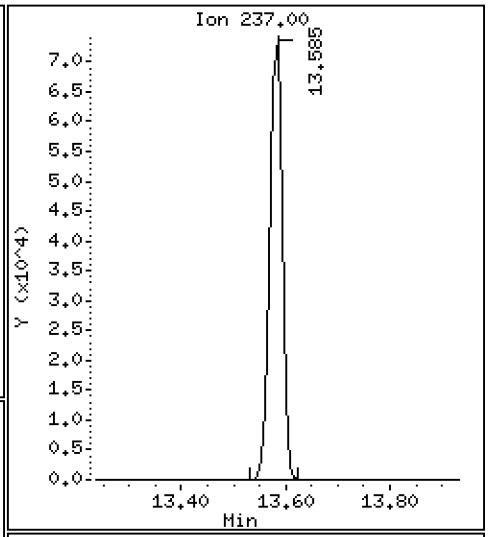
Concentration: 10.05 ug/mL

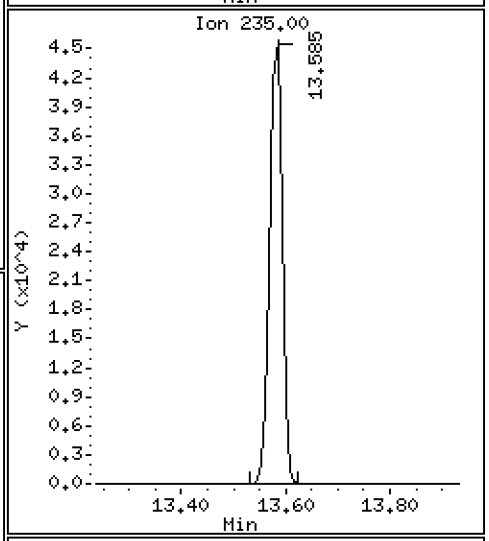


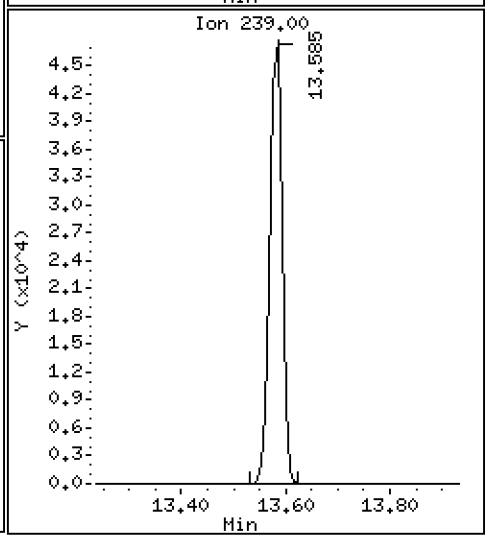












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

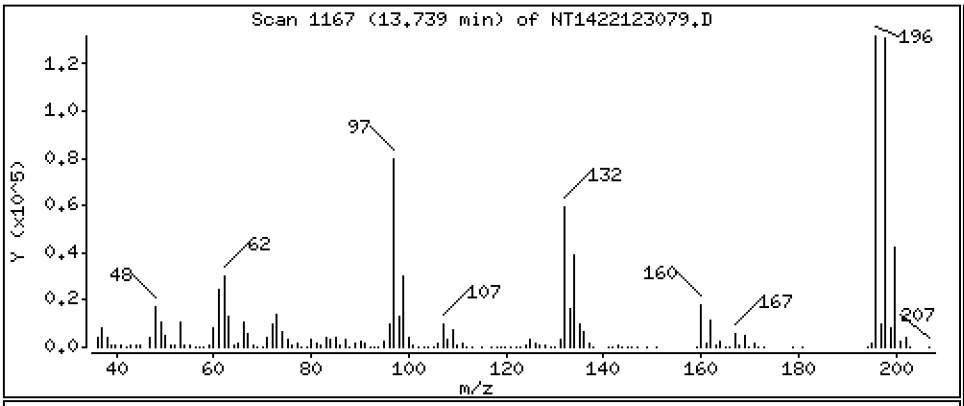
Operator: VTS

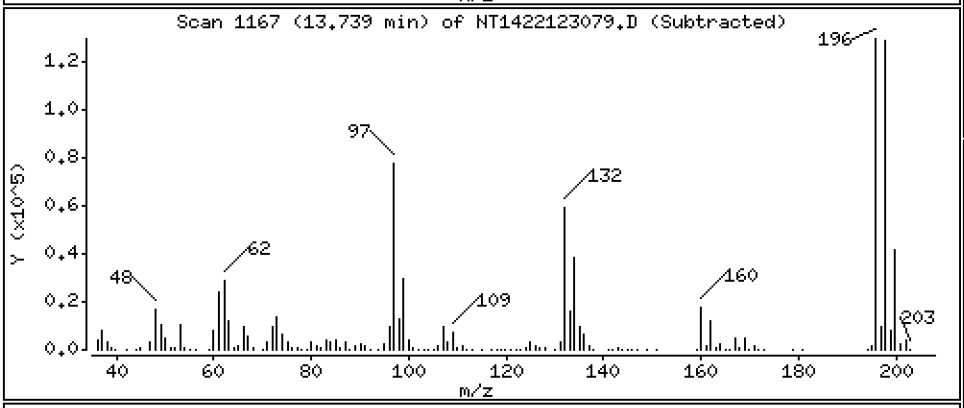
Column phase: ZB-5msi

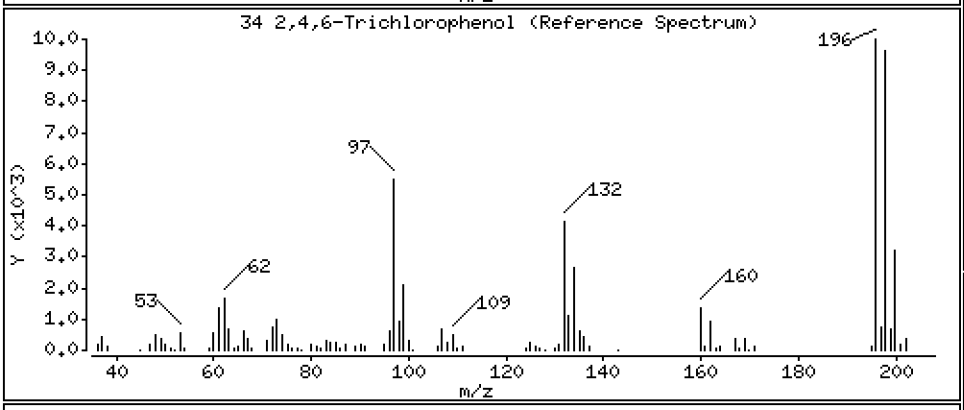
Column diameter: 0.25

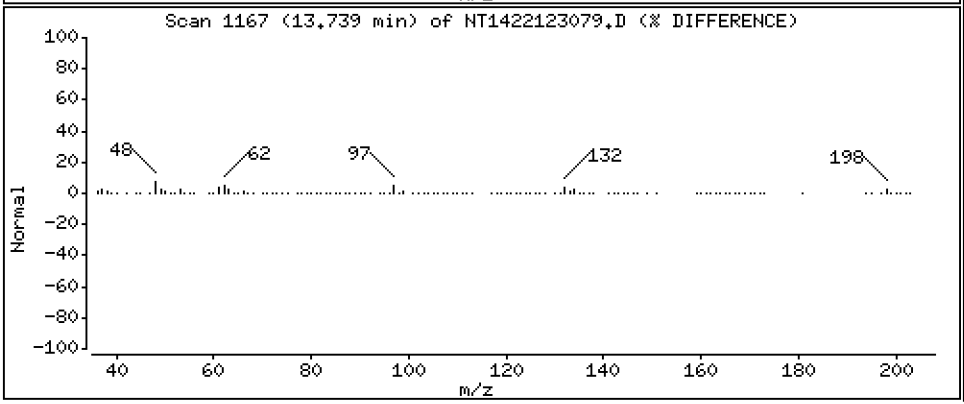
34 2,4,6-Trichlorophenol

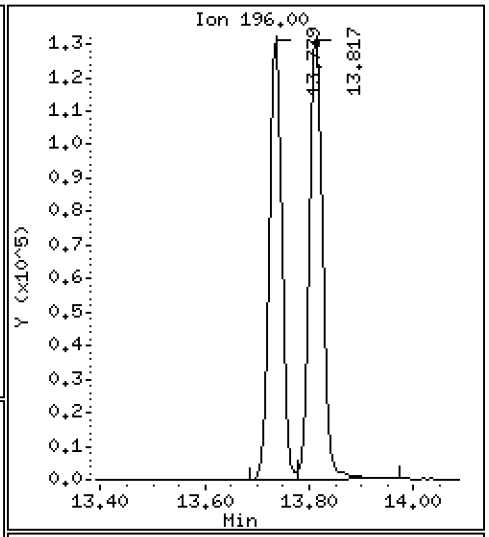
Concentration: 16.45 ug/mL

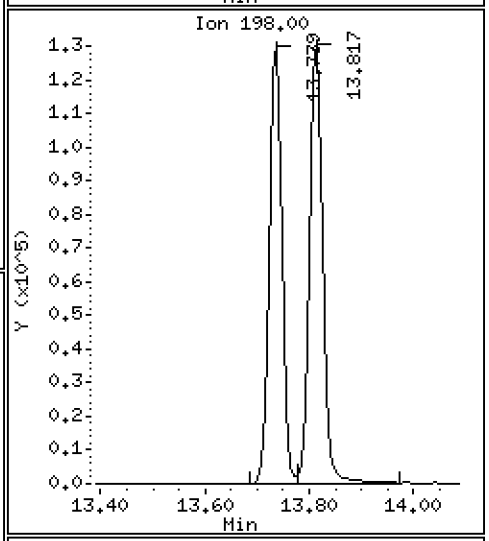


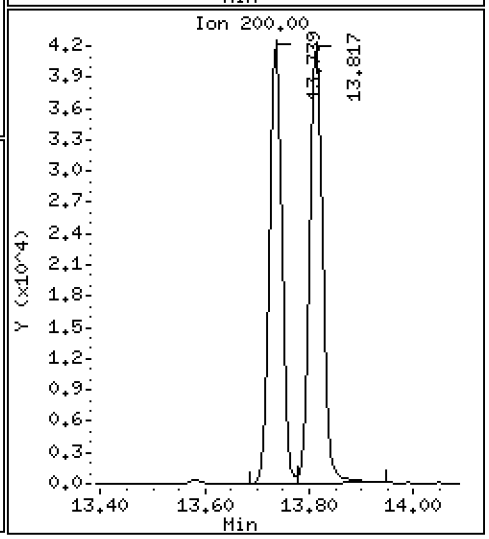












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

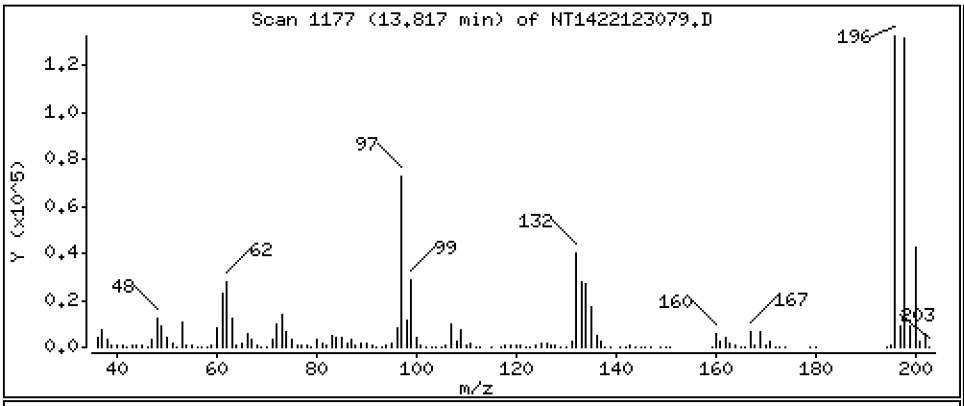
Operator: VTS

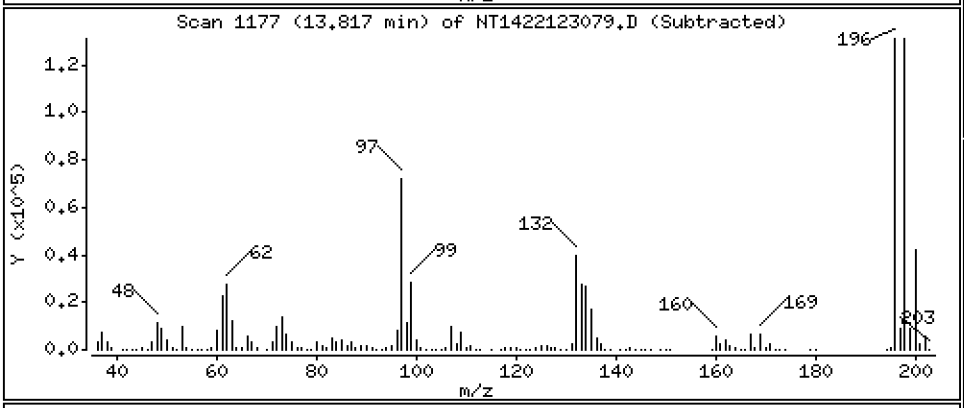
Column phase: ZB-5msi

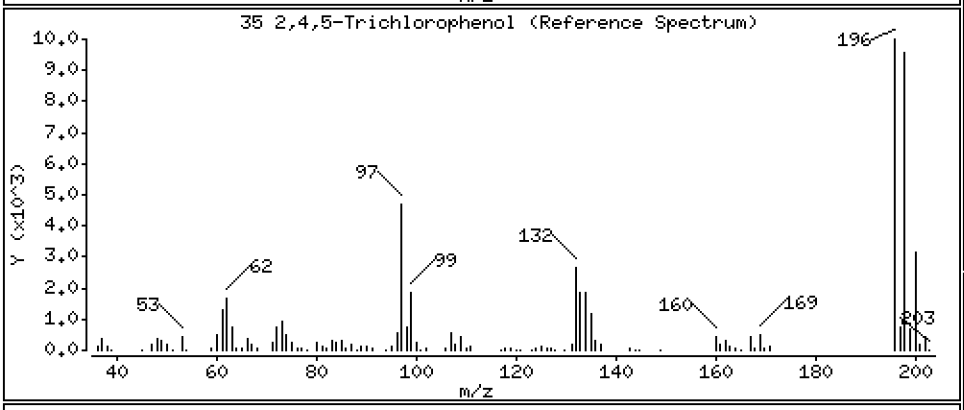
Column diameter: 0.25

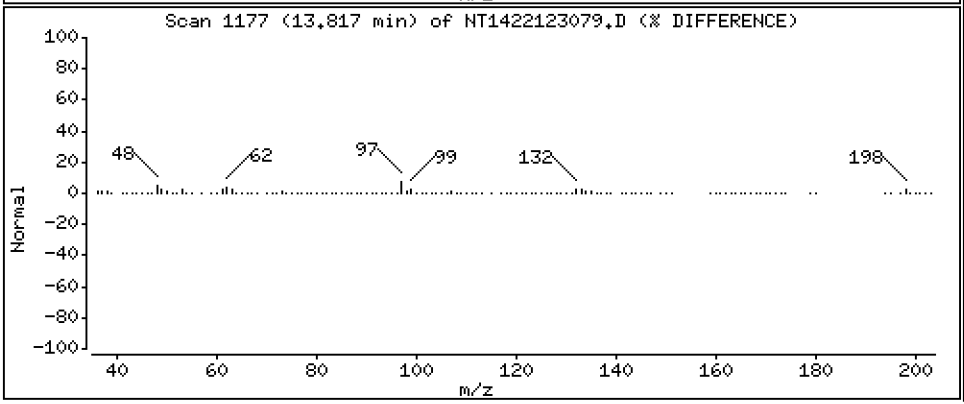
35 2,4,5-Trichlorophenol

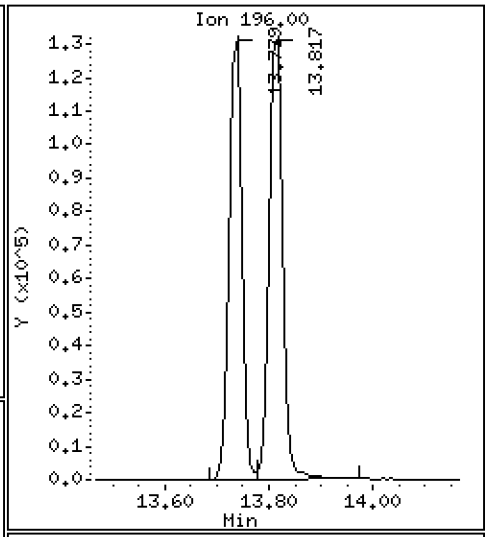
Concentration: 15.29 ug/mL

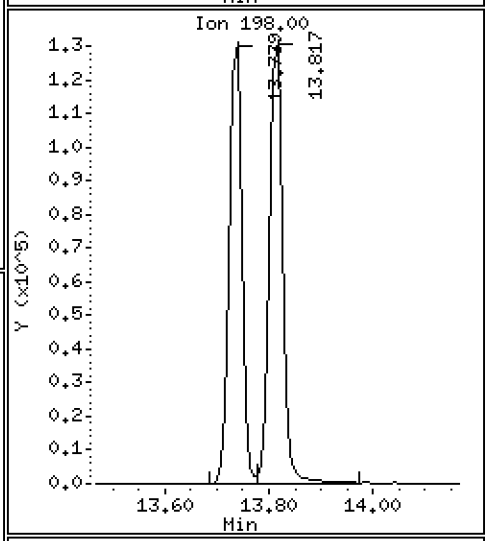


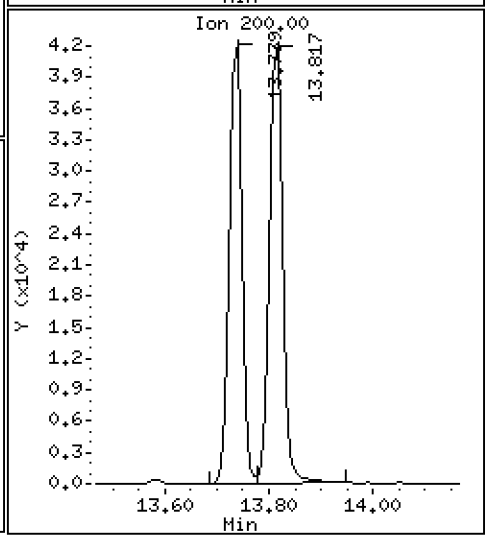












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

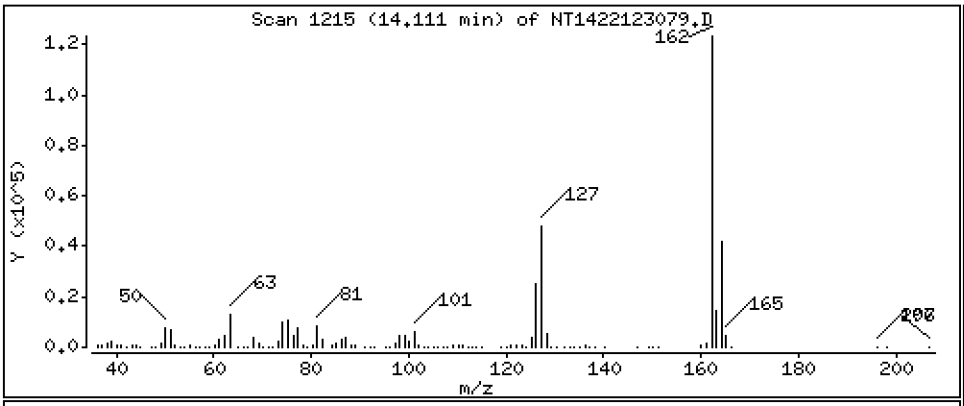
Operator: VTS

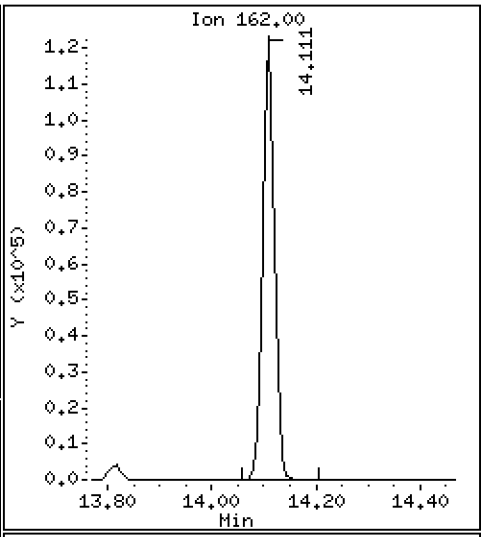
Column phase: ZB-5msi

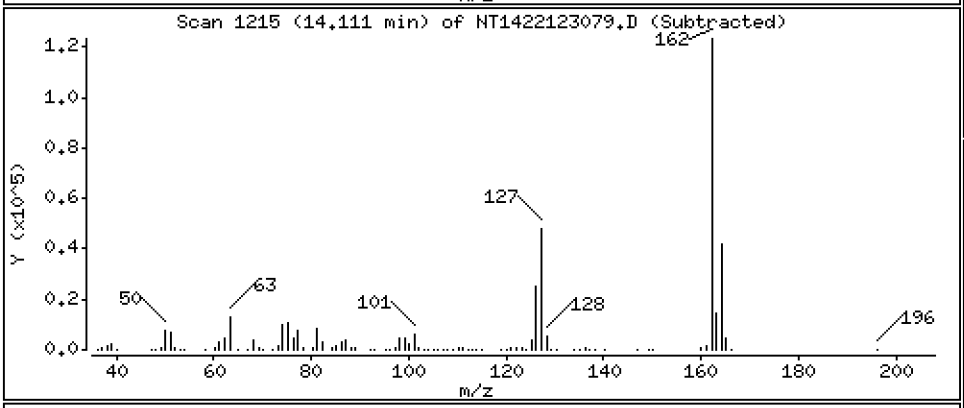
Column diameter: 0.25

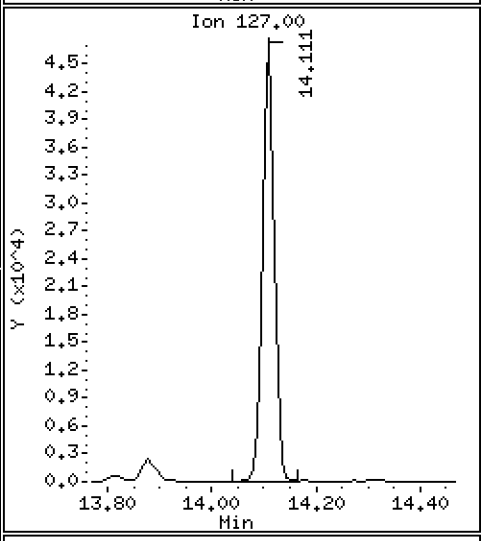
37 2-Chloronaphthalene

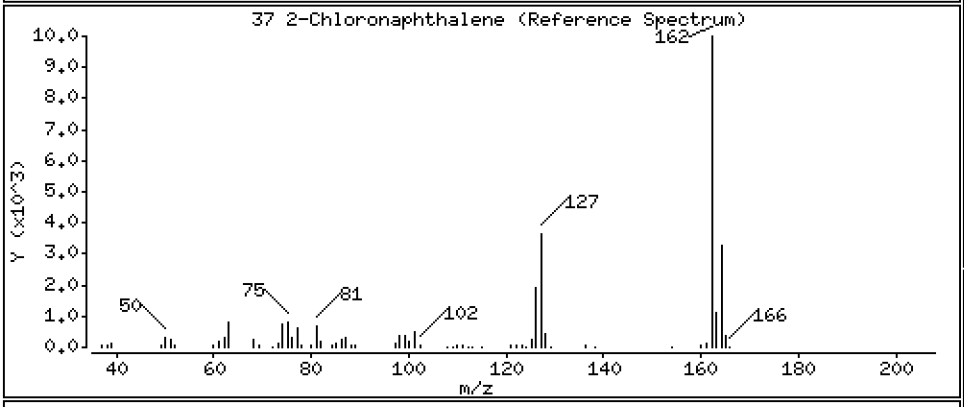
Concentration: 4.275 ug/mL

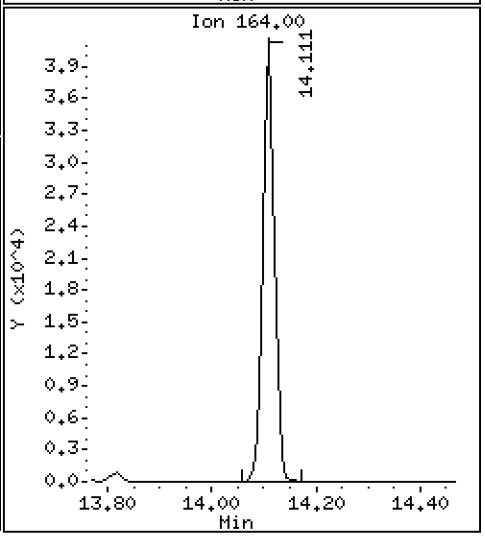


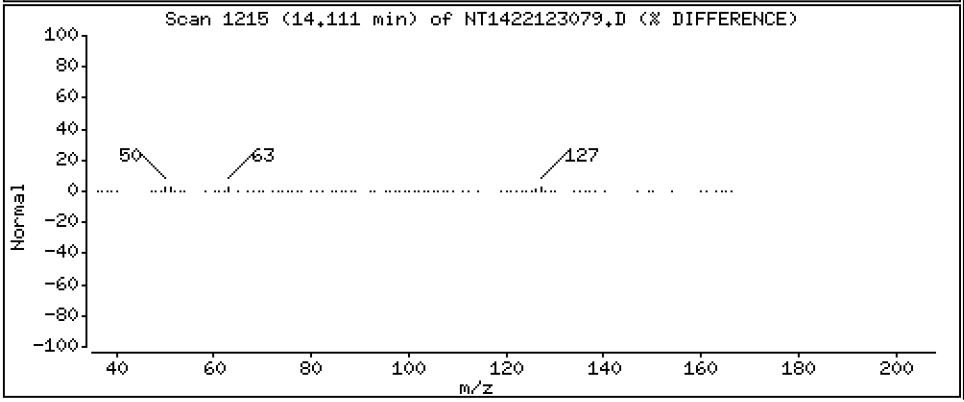












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

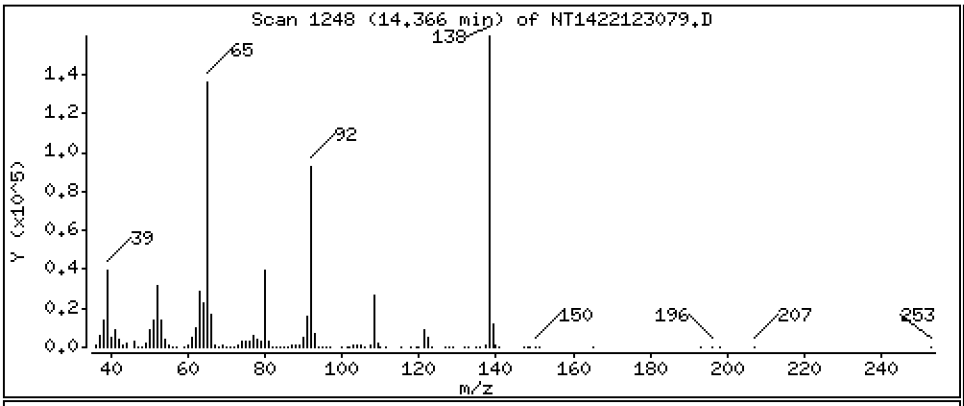
Operator: VTS

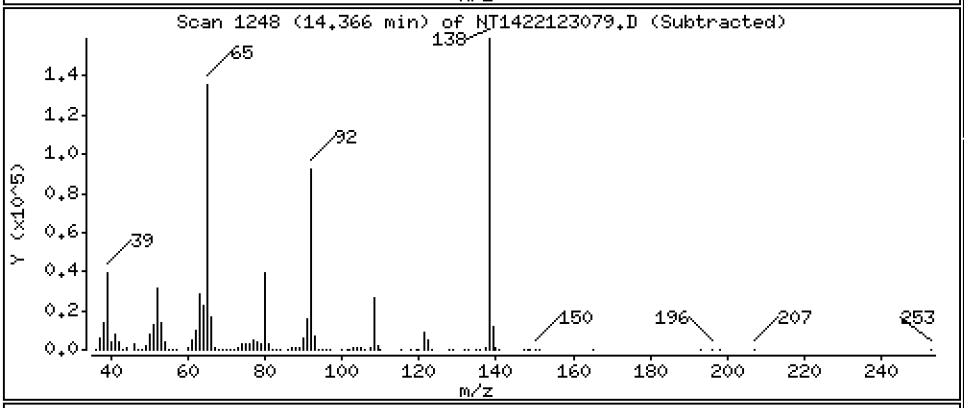
Column phase: ZB-5msi

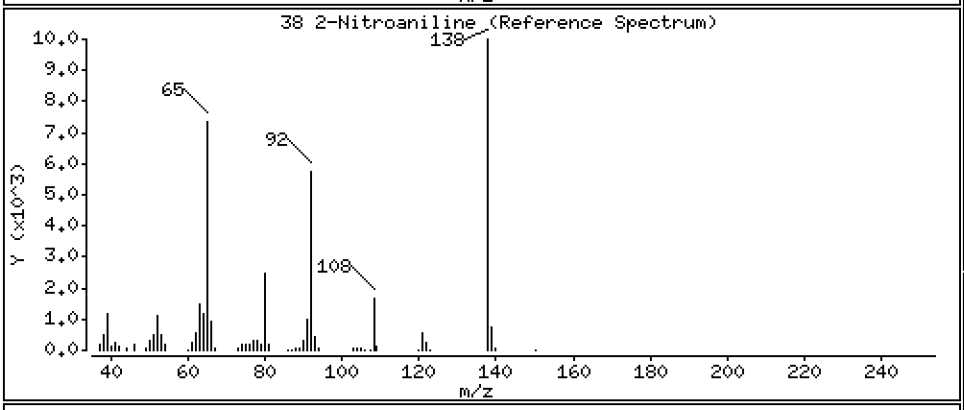
Column diameter: 0.25

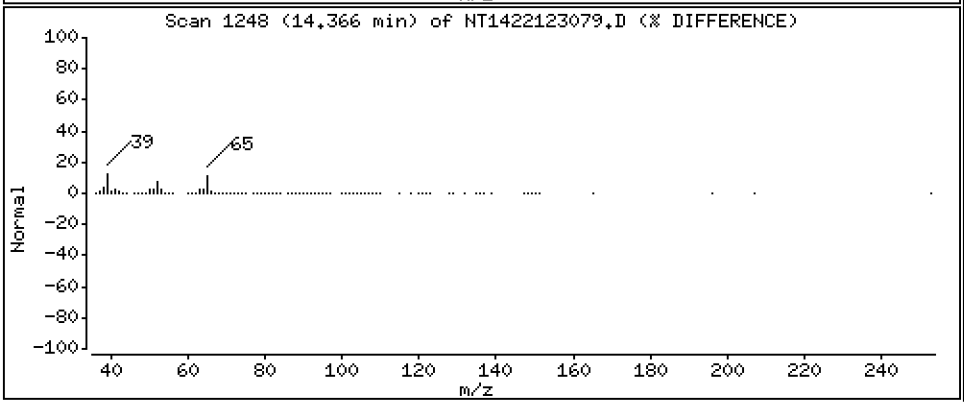
38 2-Nitroaniline

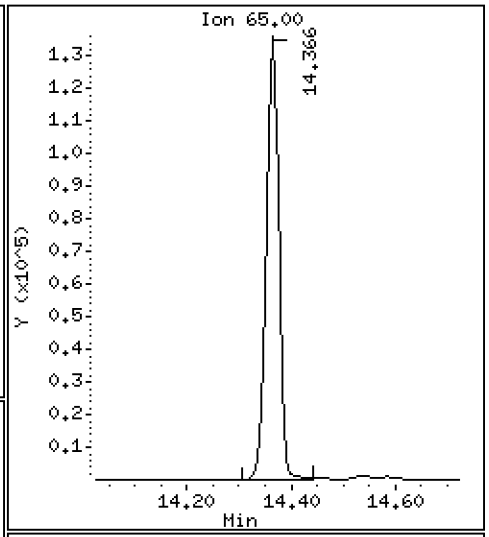
Concentration: 18.60 ug/mL

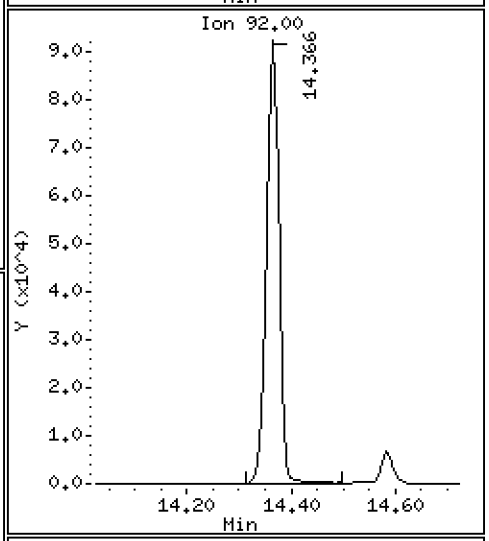


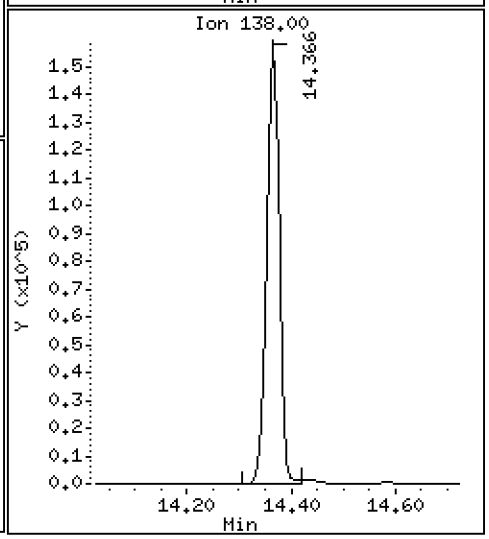












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123079.D

Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

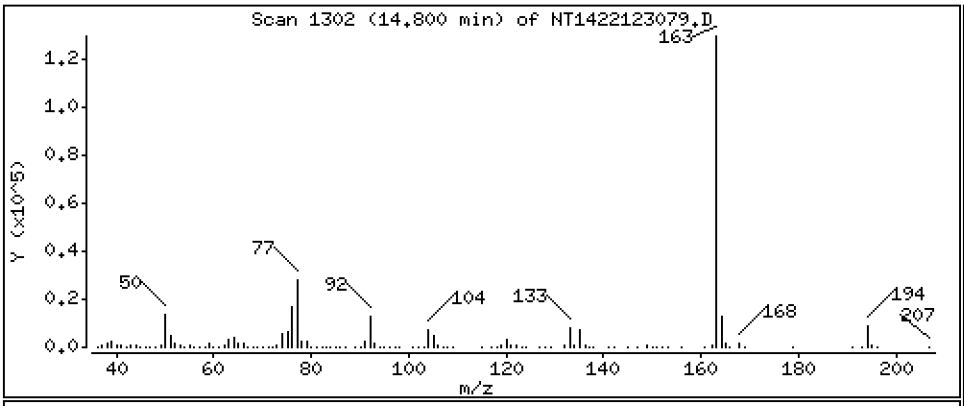
Operator: VTS

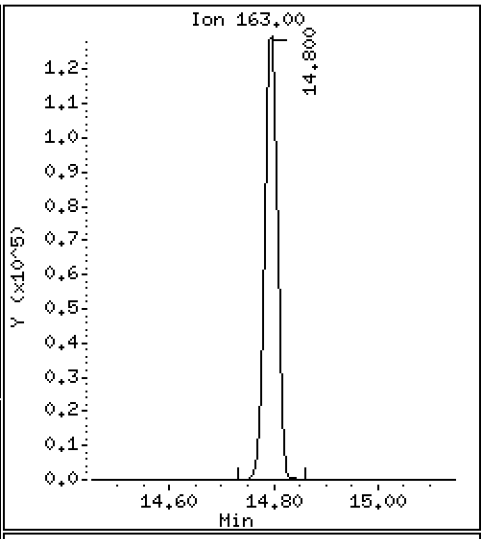
Column phase: ZB-5msi

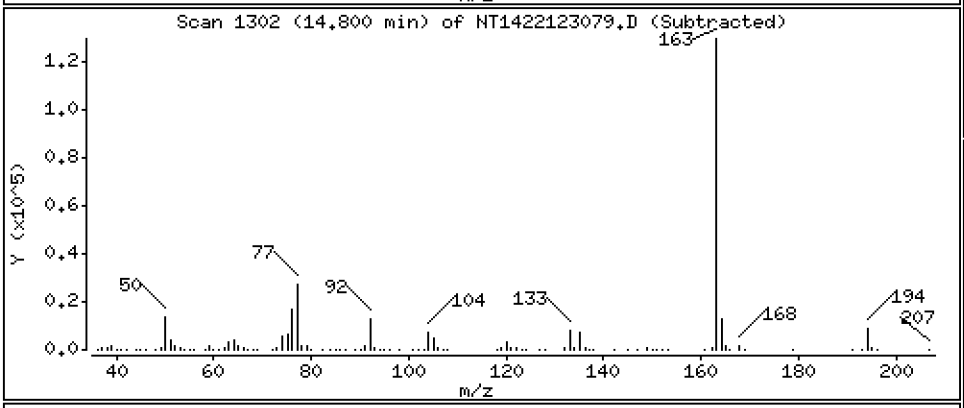
Column diameter: 0.25

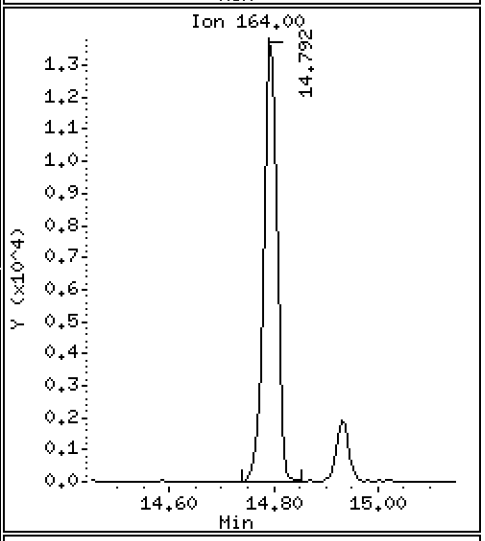
39 Dimethylphthalate

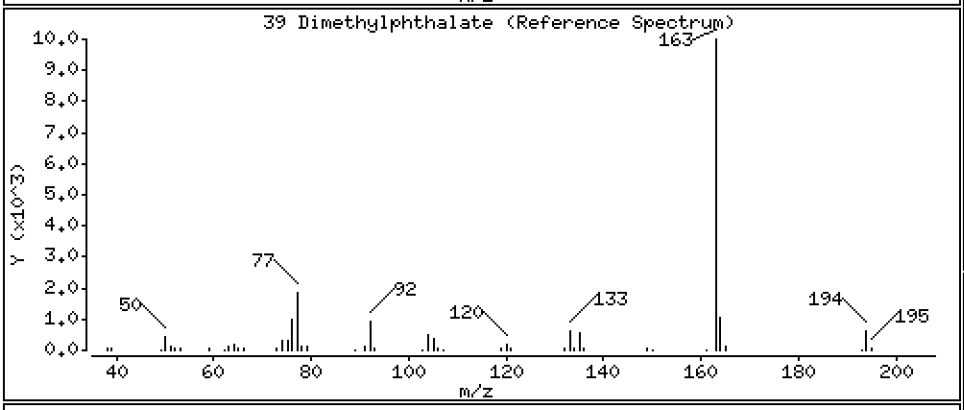
Concentration: 4.937 ug/mL

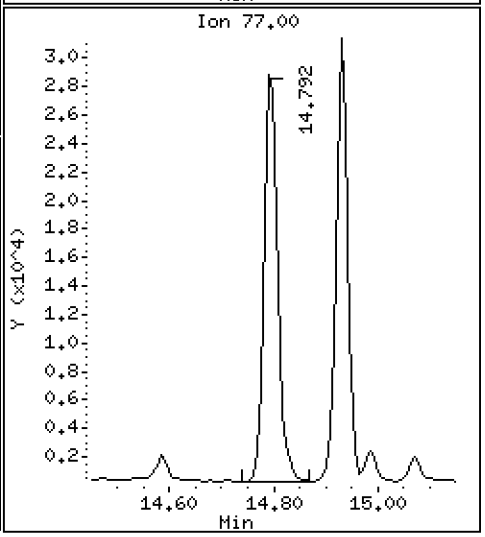


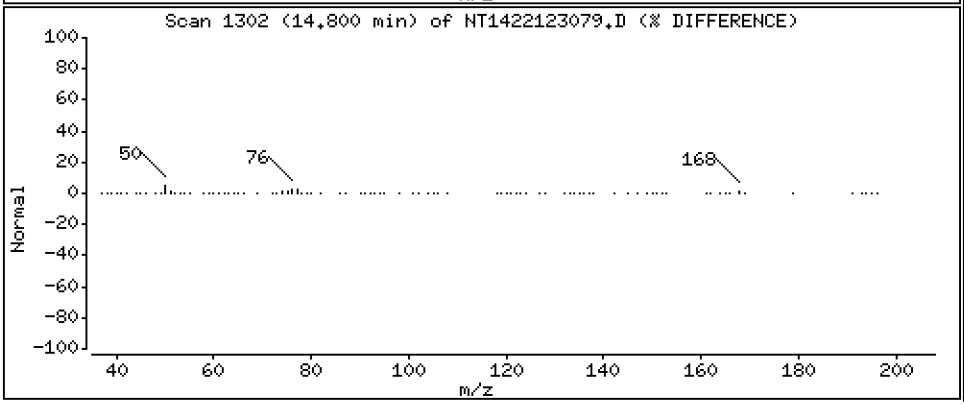












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

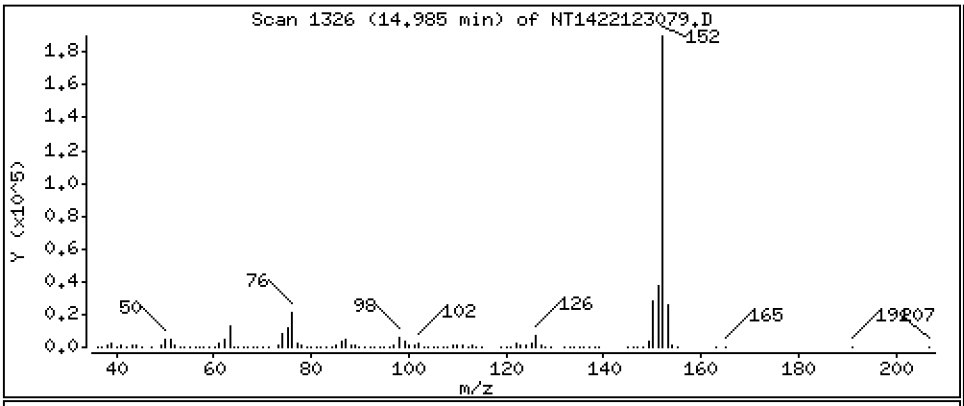
Operator: VTS

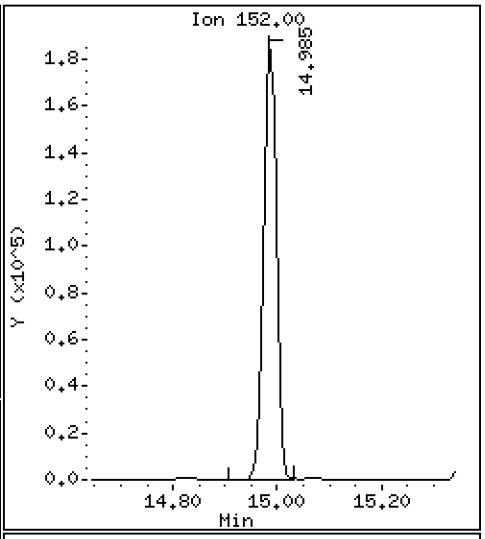
Column phase: ZB-5msi

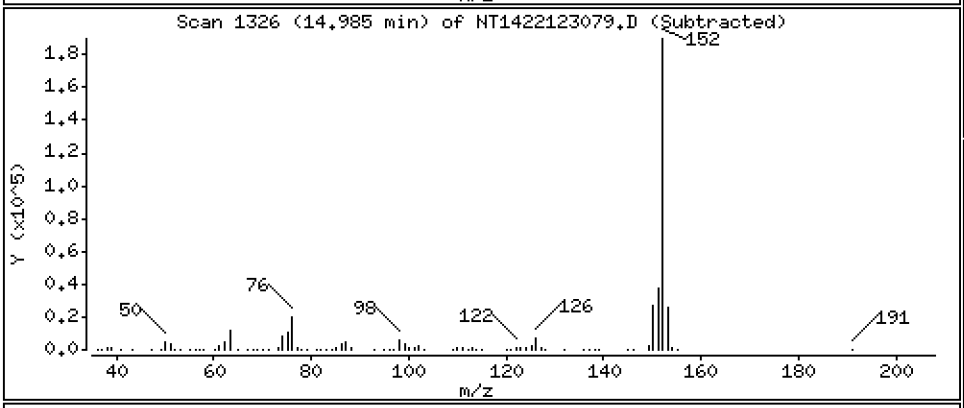
Column diameter: 0.25

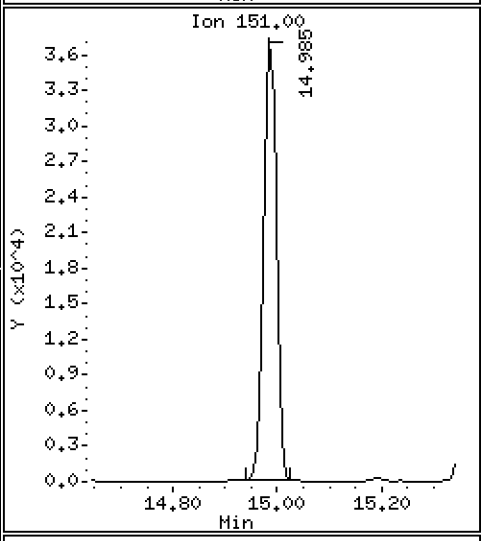
40 Acenaphthylene

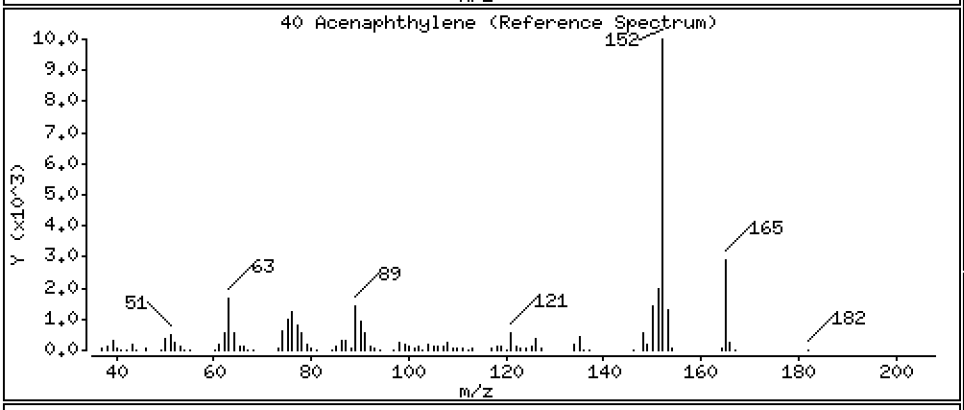
Concentration: 4.499 ug/mL

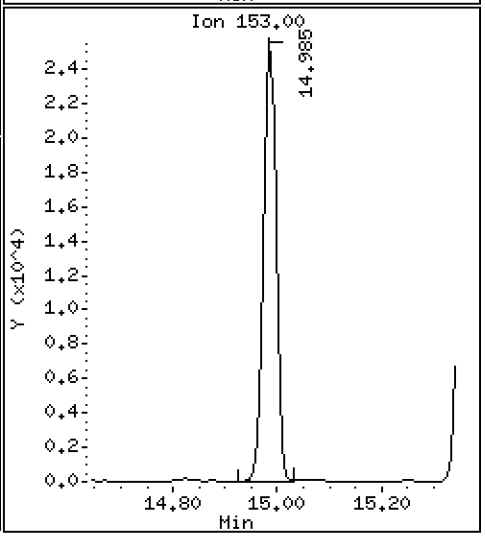


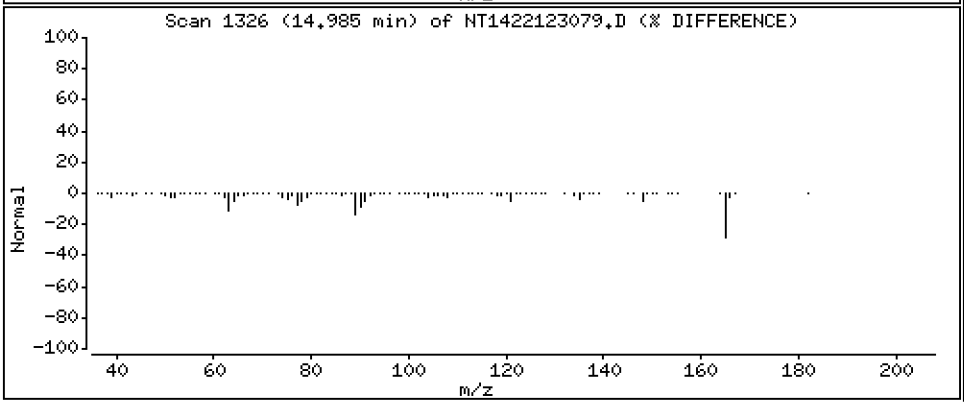












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

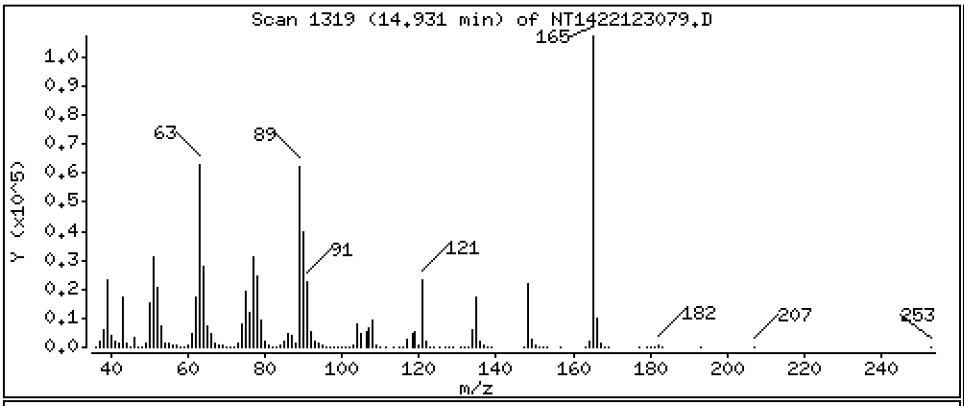
Operator: VTS

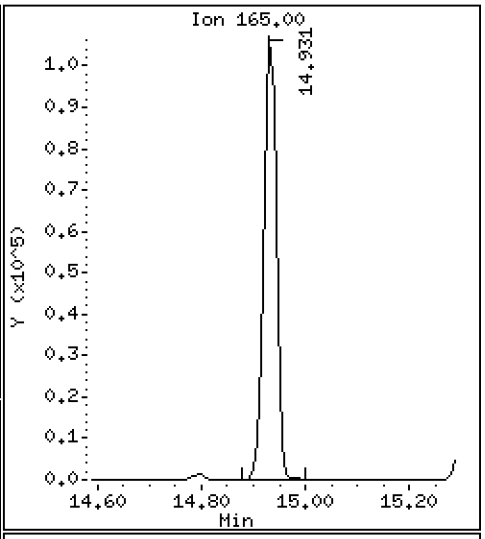
Column phase: ZB-5msi

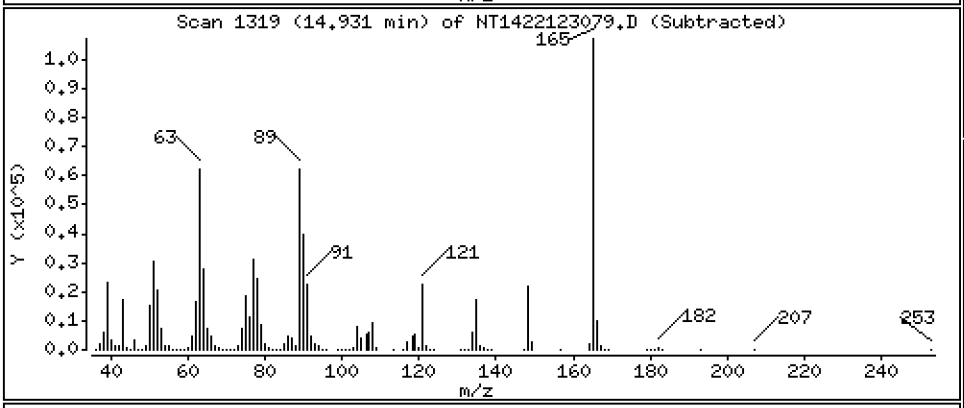
Column diameter: 0.25

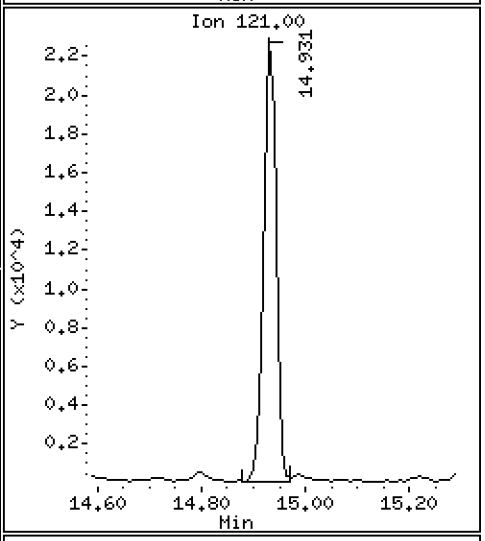
41 2,6-Dinitrotoluene

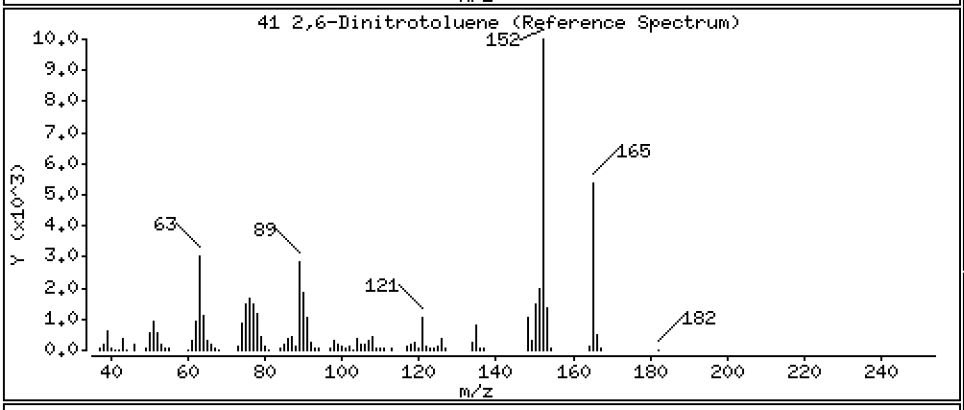
Concentration: 17.26 ug/mL

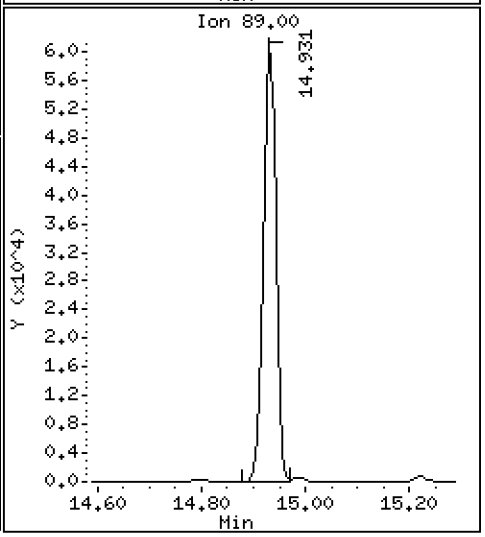


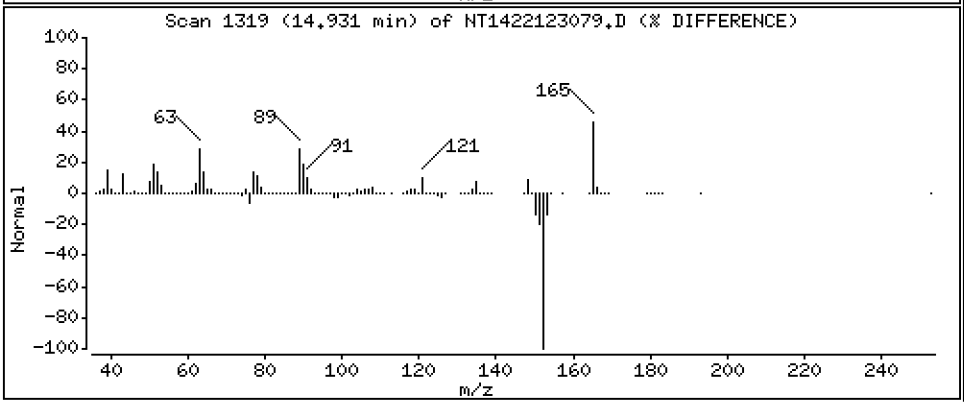












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

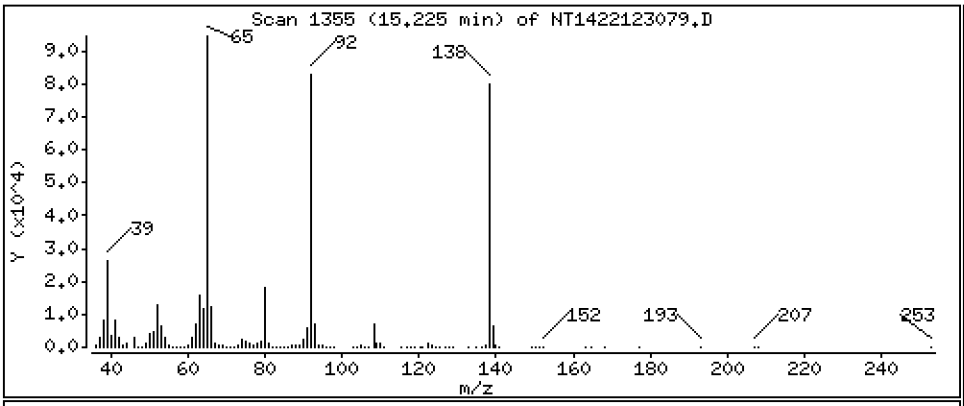
Operator: VTS

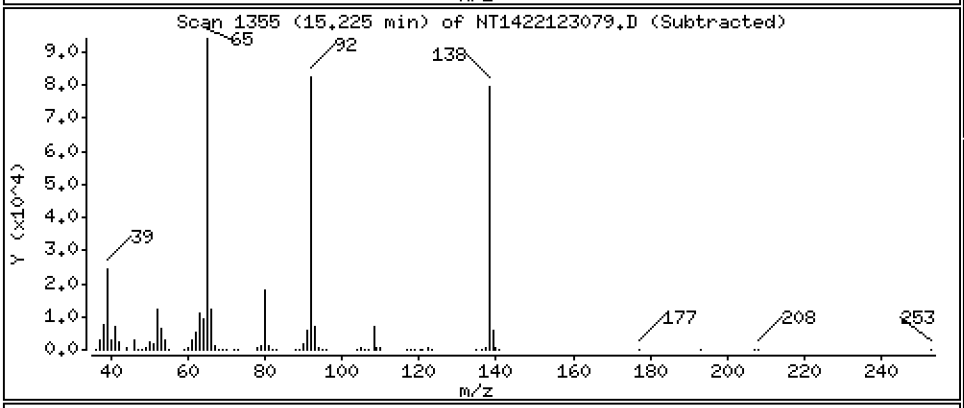
Column phase: ZB-5msi

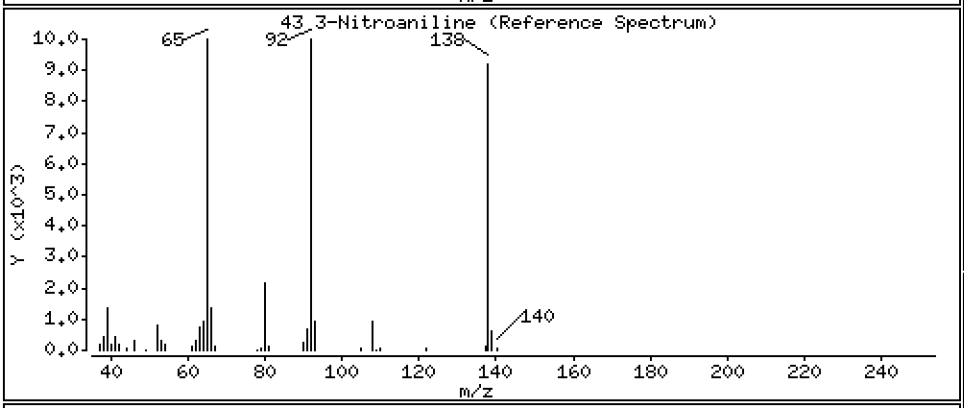
Column diameter: 0.25

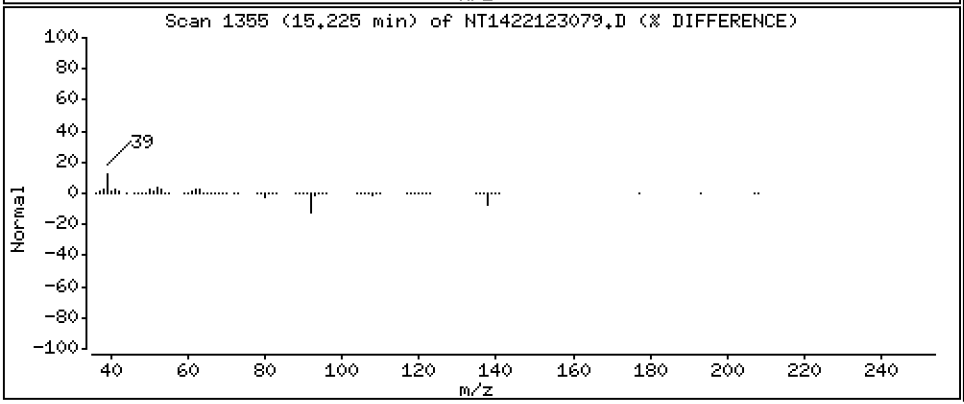
43 3-Nitroaniline

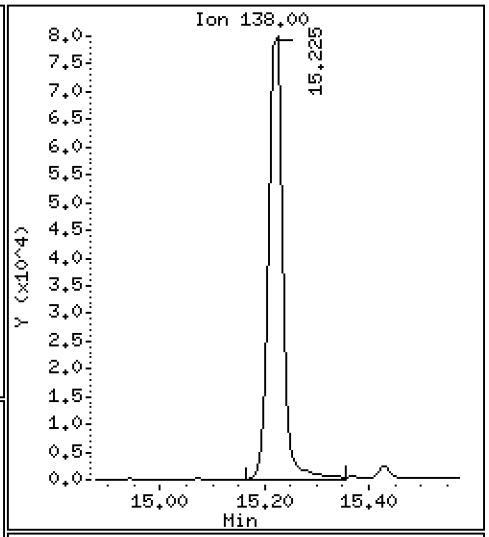
Concentration: 12.20 ug/mL

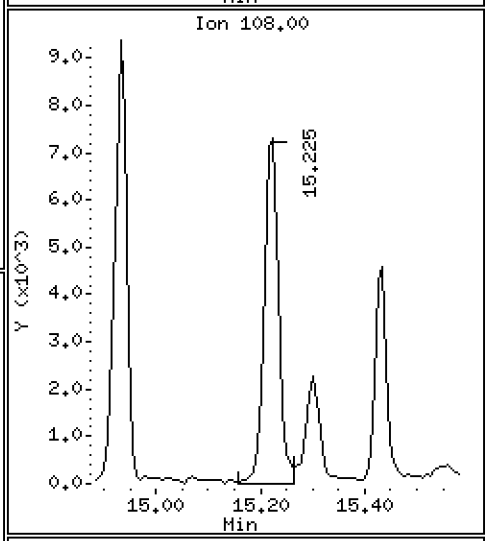


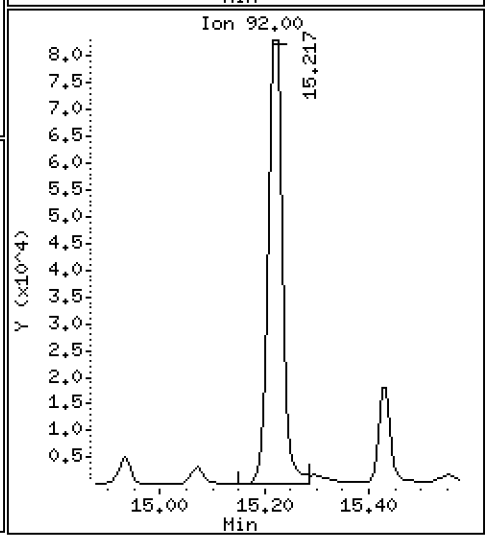












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

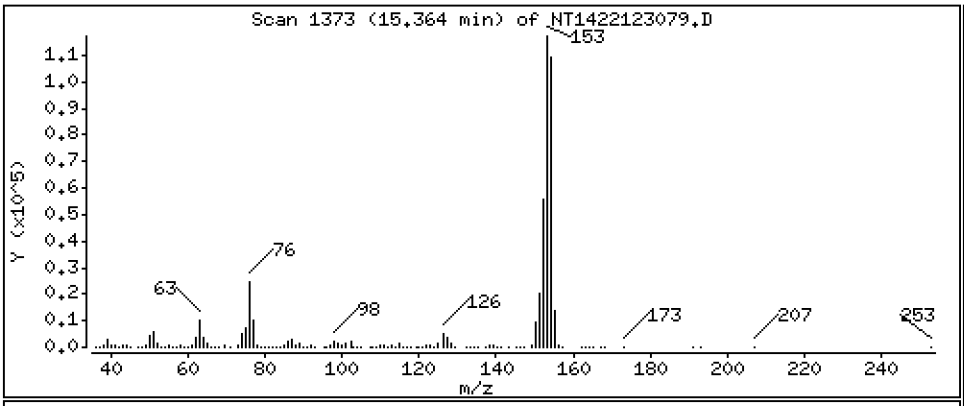
Operator: VTS

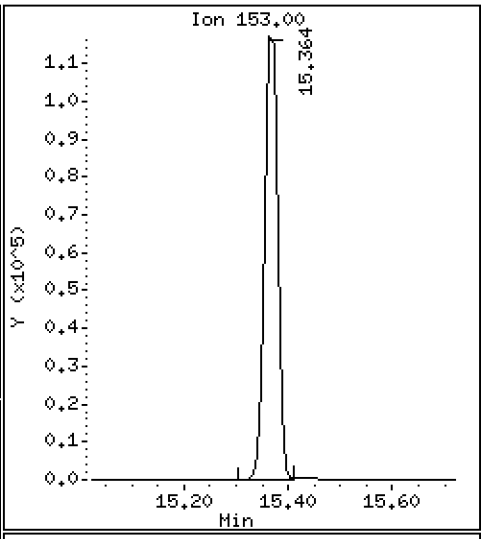
Column phase: ZB-5msi

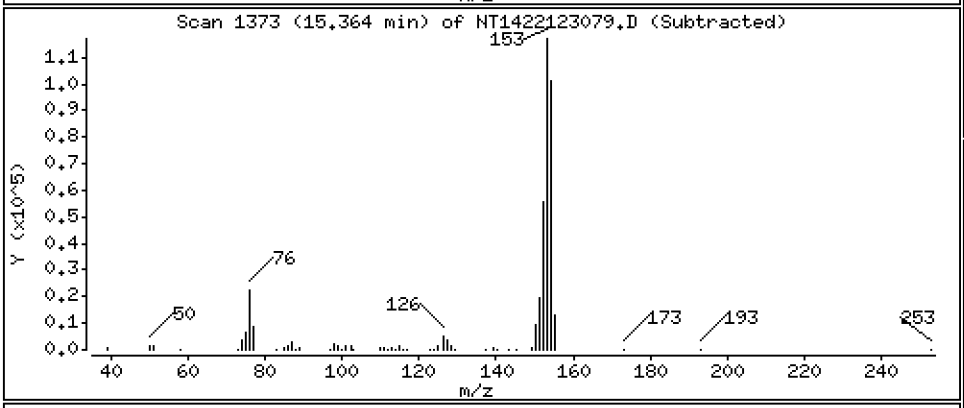
Column diameter: 0.25

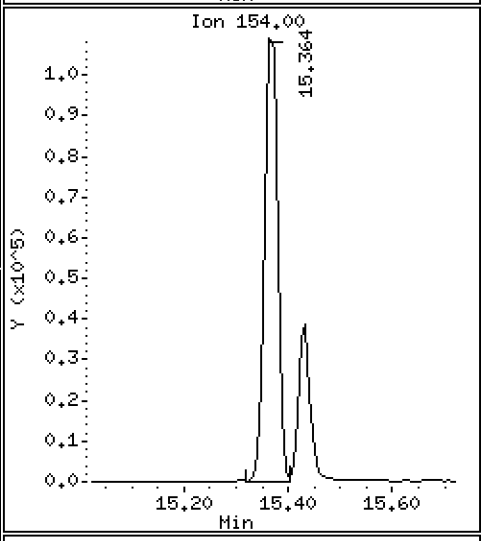
44 Acenaphthene

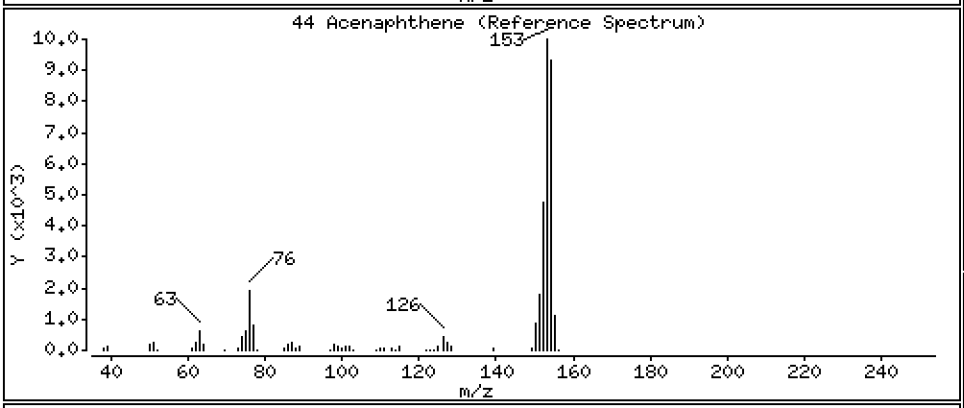
Concentration: 4.674 ug/mL

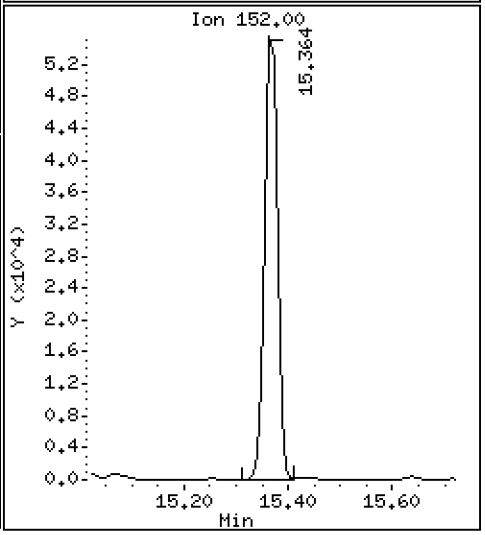


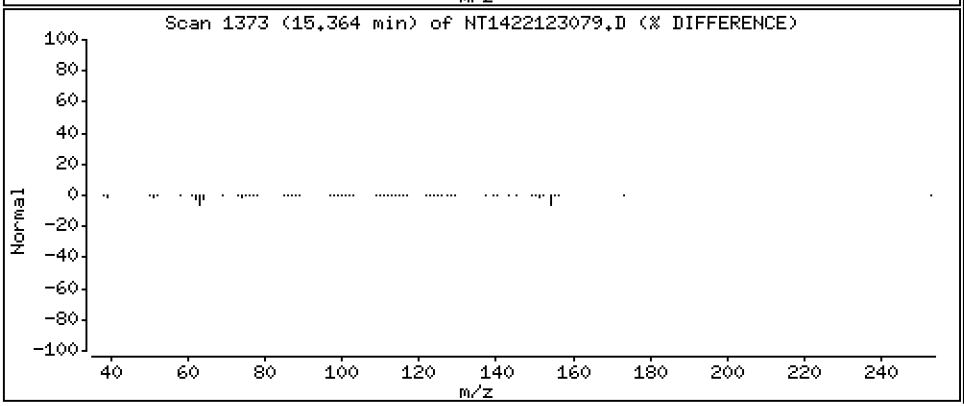












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

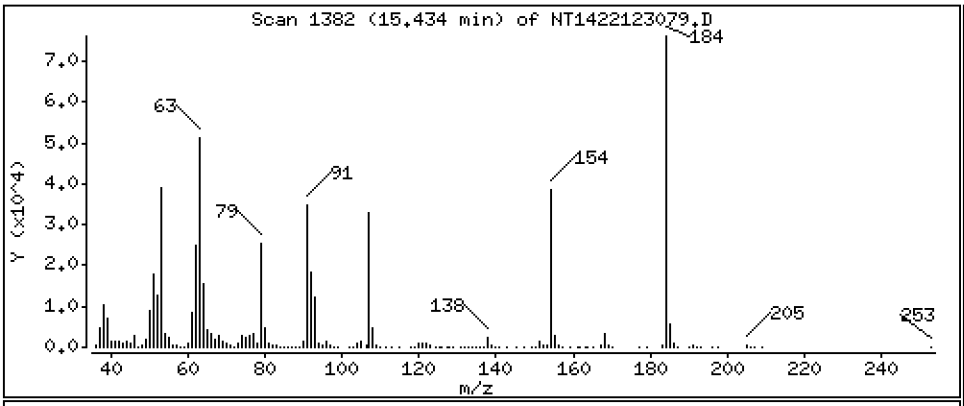
Operator: VTS

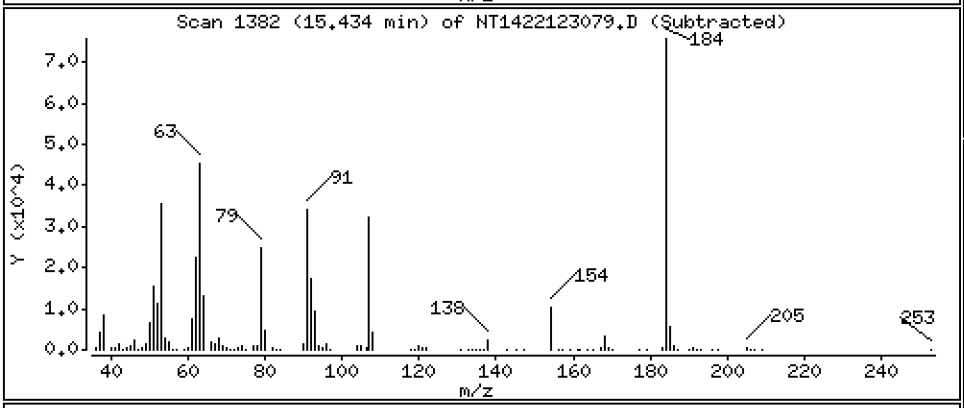
Column phase: ZB-5msi

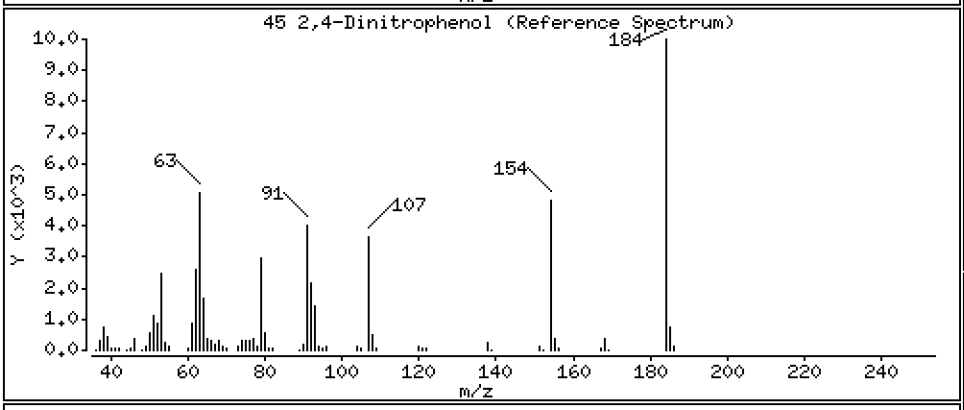
Column diameter: 0.25

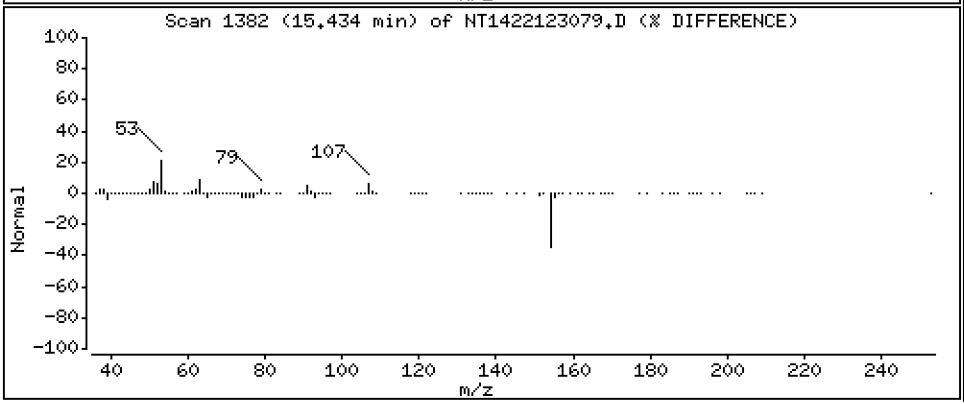
45 2,4-Dinitrophenol

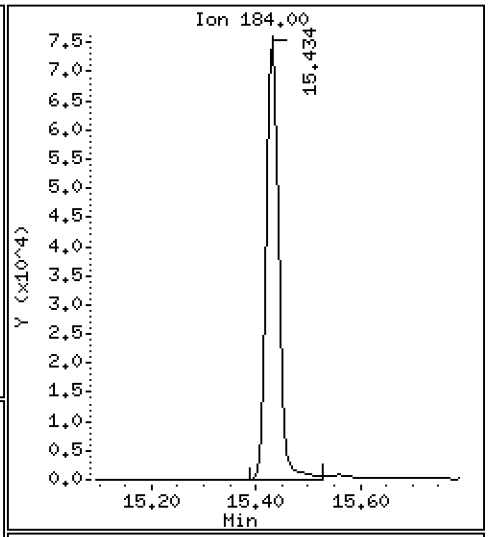
Concentration: 14.06 ug/mL

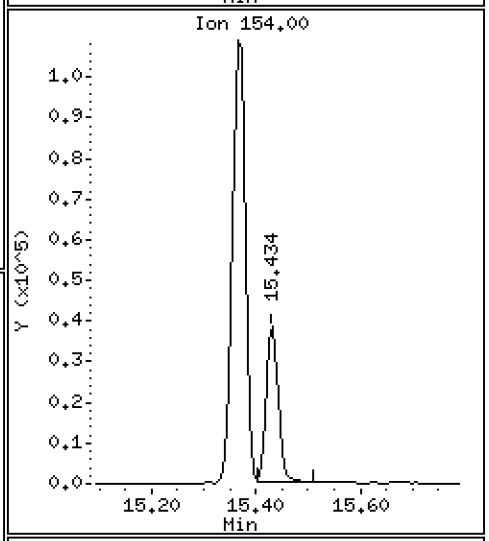


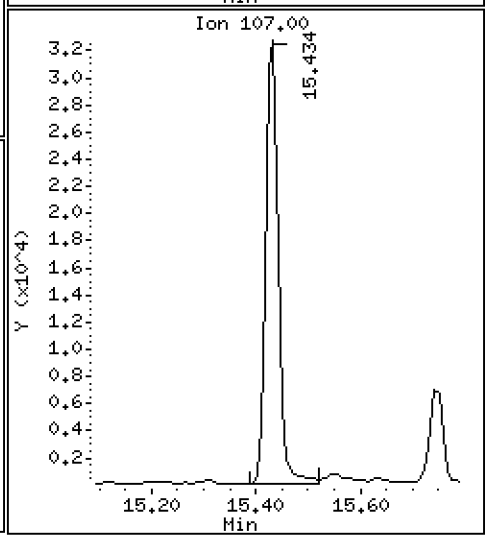












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

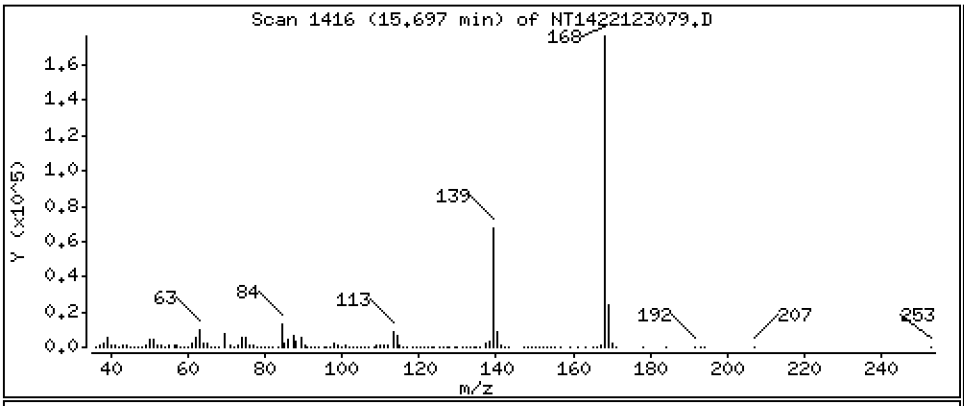
Operator: VTS

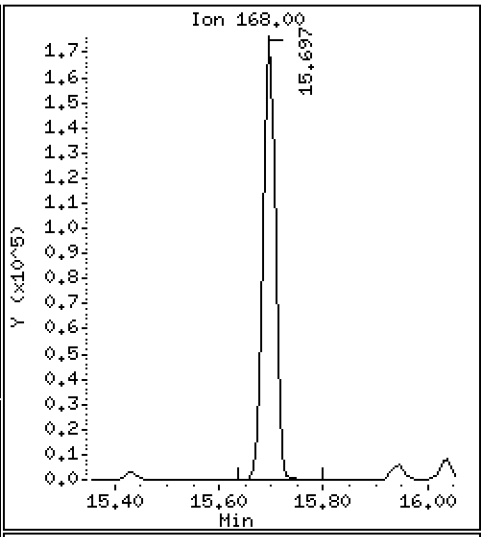
Column phase: ZB-5msi

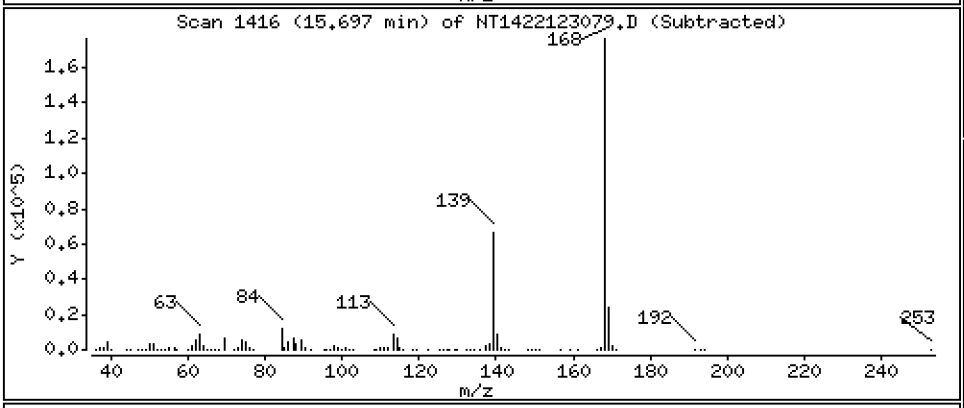
Column diameter: 0.25

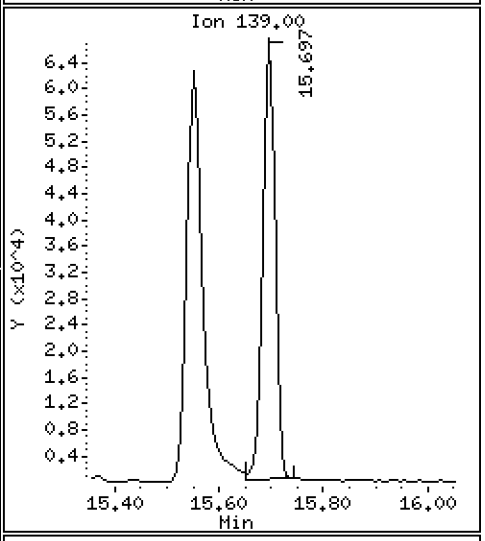
46 Dibenzofuran

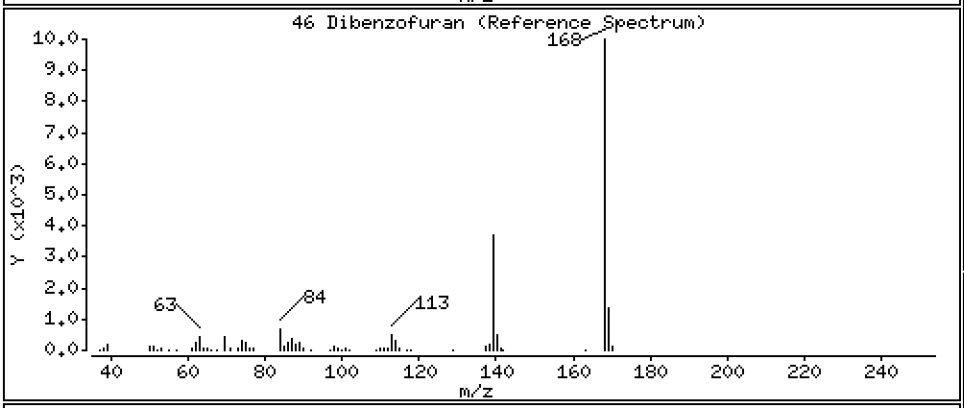
Concentration: 4.374 ug/mL

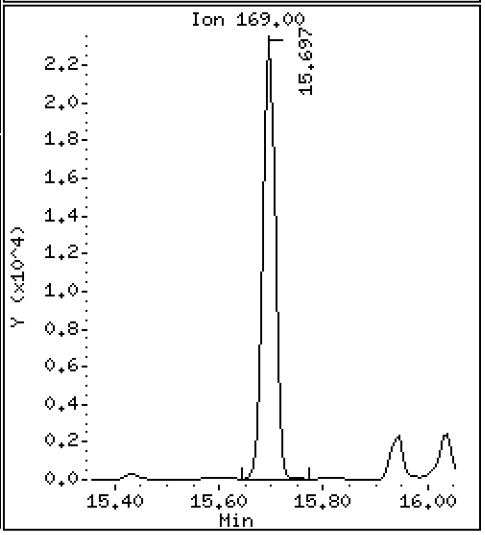


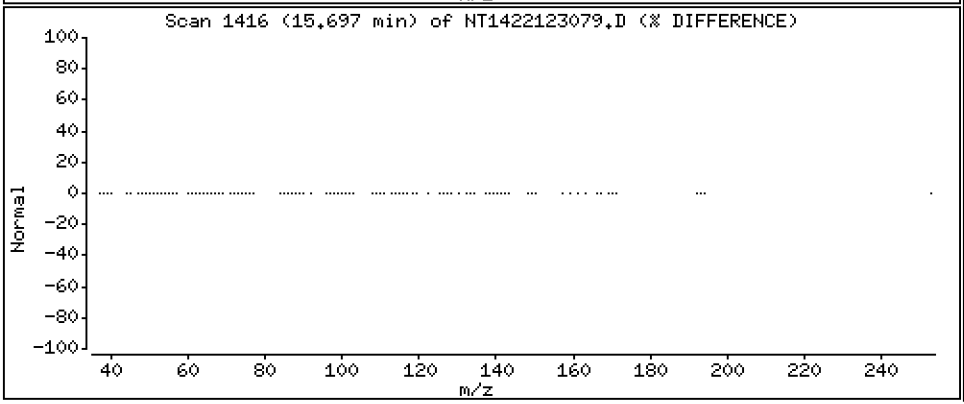












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

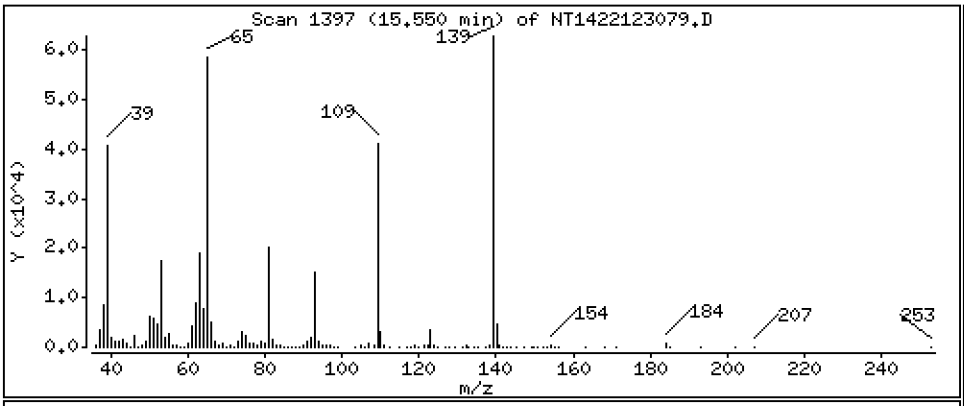
Operator: VTS

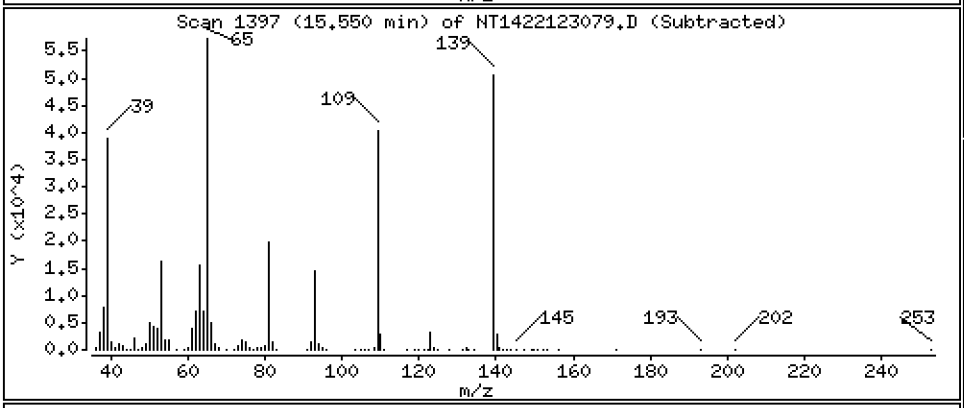
Column phase: ZB-5msi

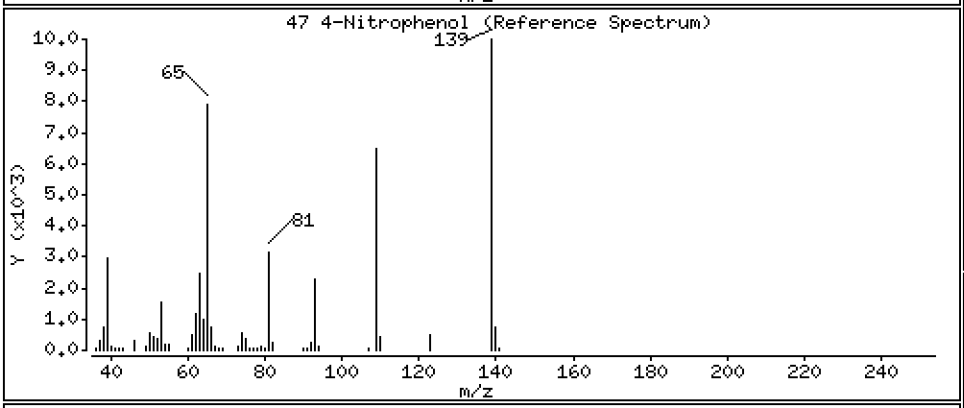
Column diameter: 0.25

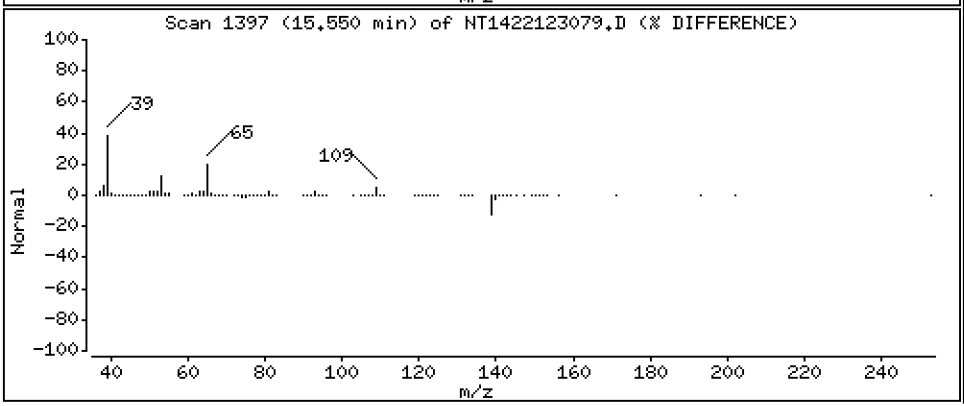
47 4-Nitrophenol

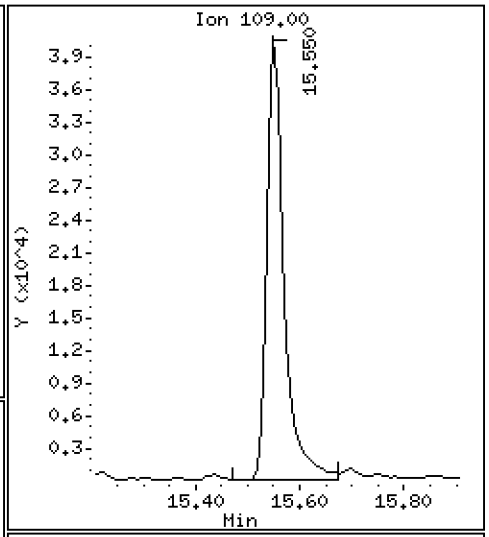
Concentration: 15.19 ug/mL

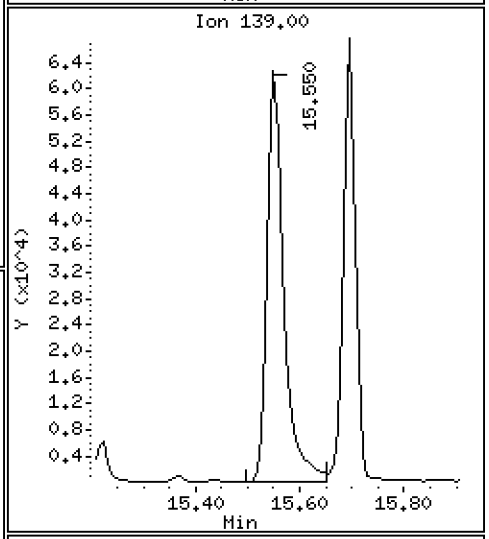


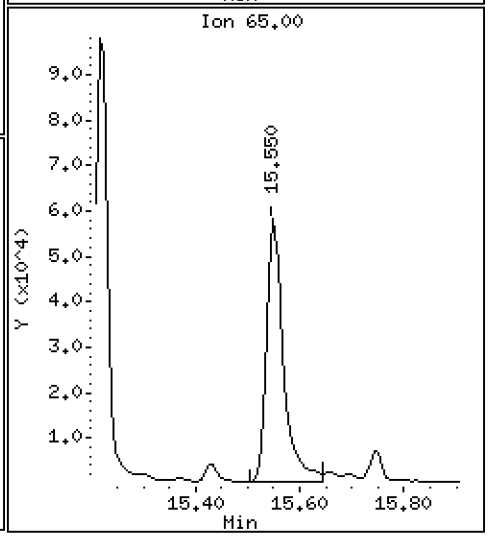












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

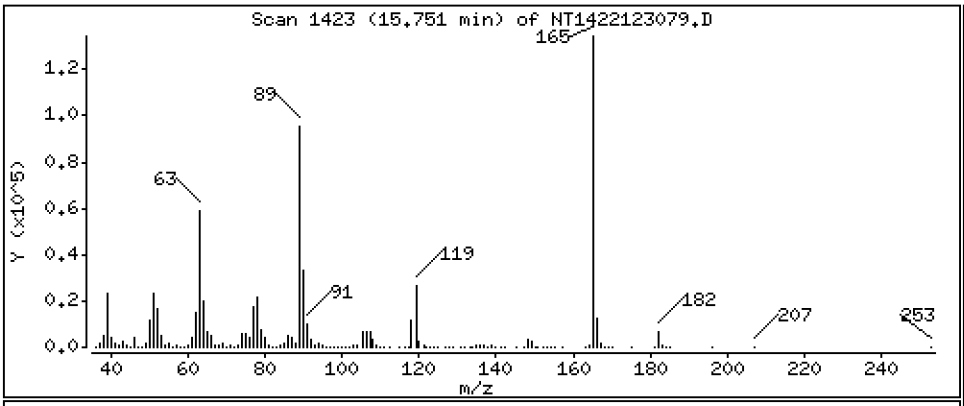
Operator: VTS

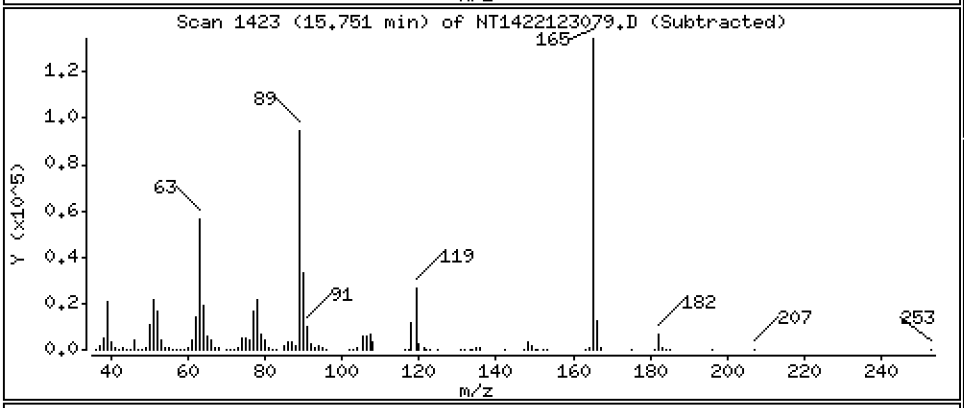
Column phase: ZB-5msi

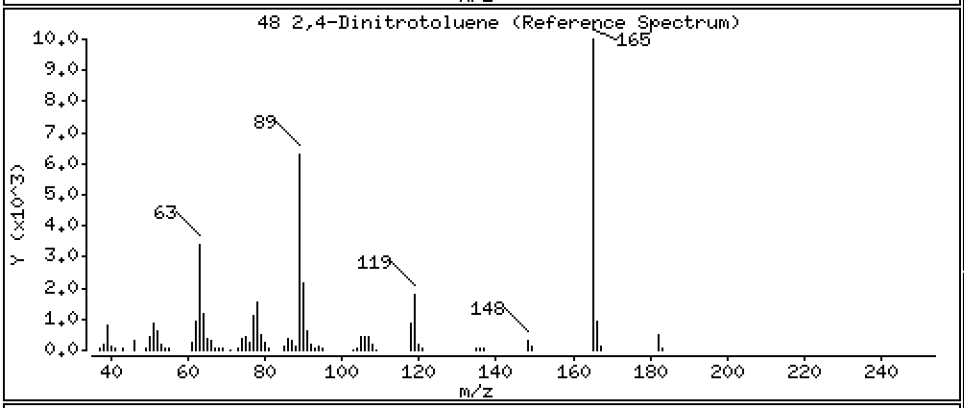
Column diameter: 0.25

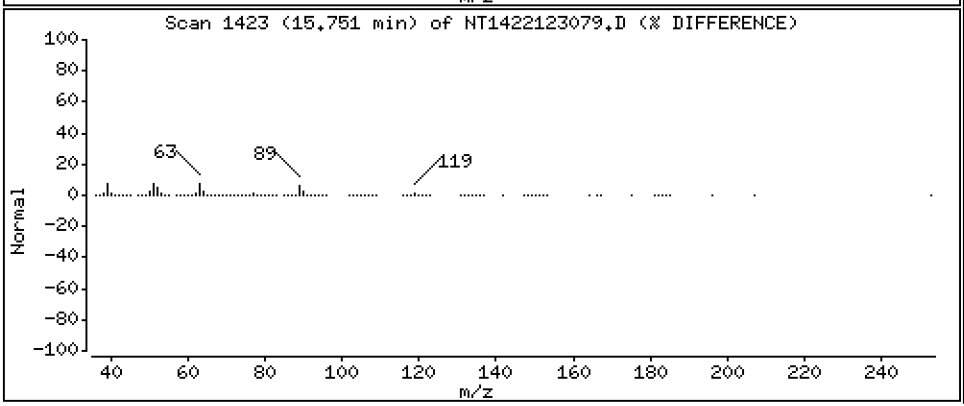
48 2,4-Dinitrotoluene

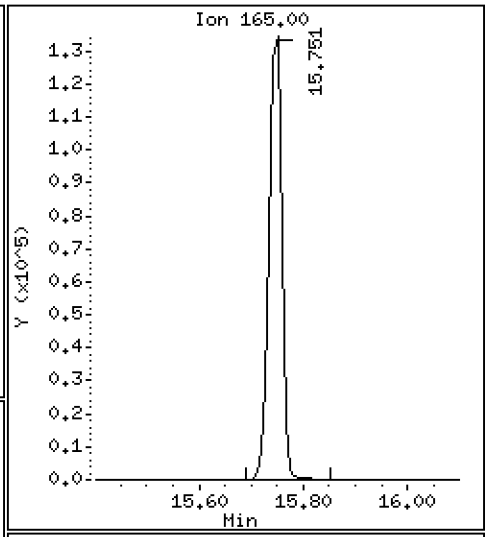
Concentration: 16.25 ug/mL

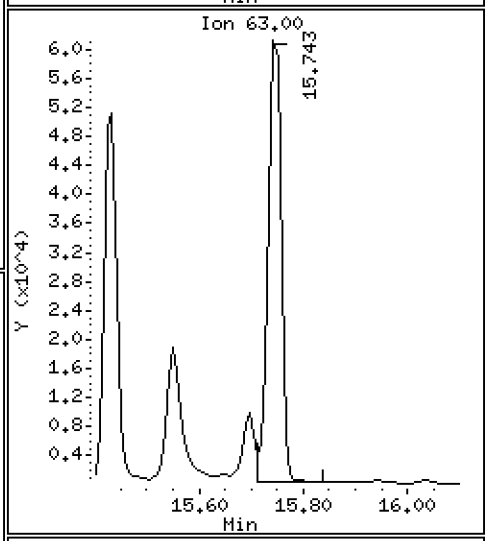


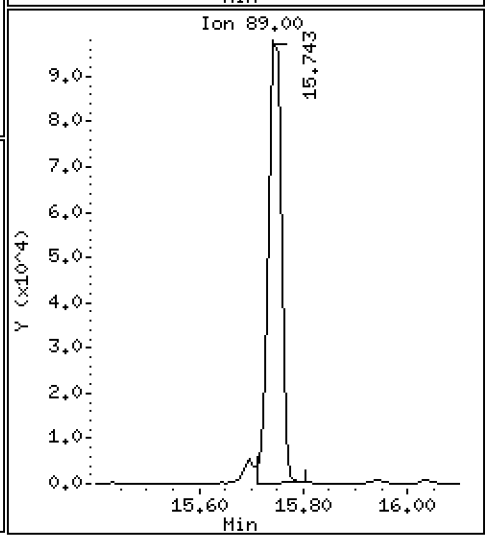












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

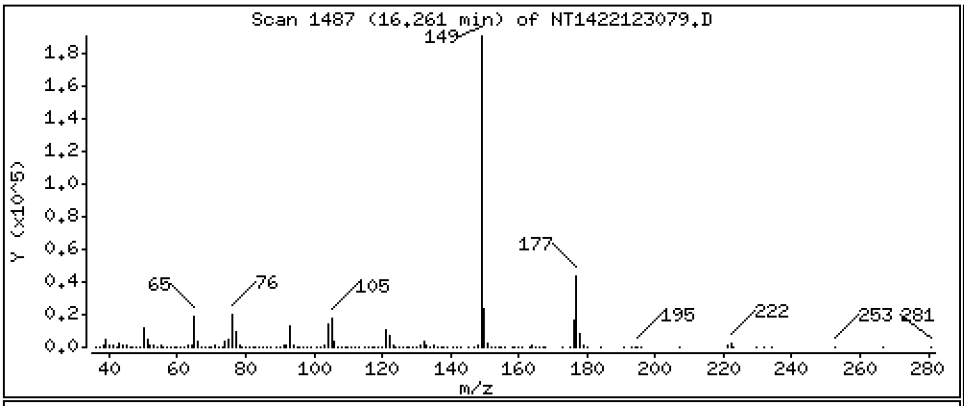
Operator: VTS

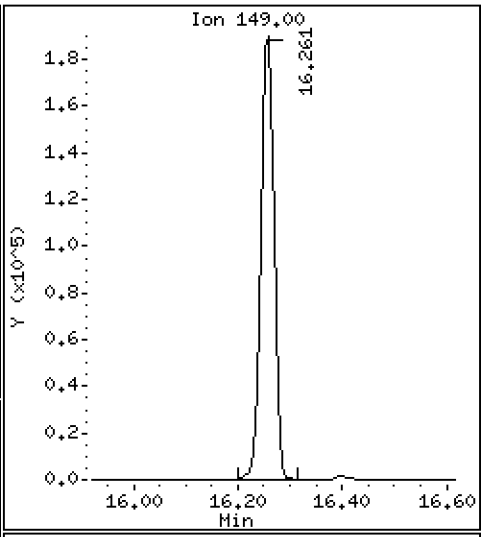
Column phase: ZB-5msi

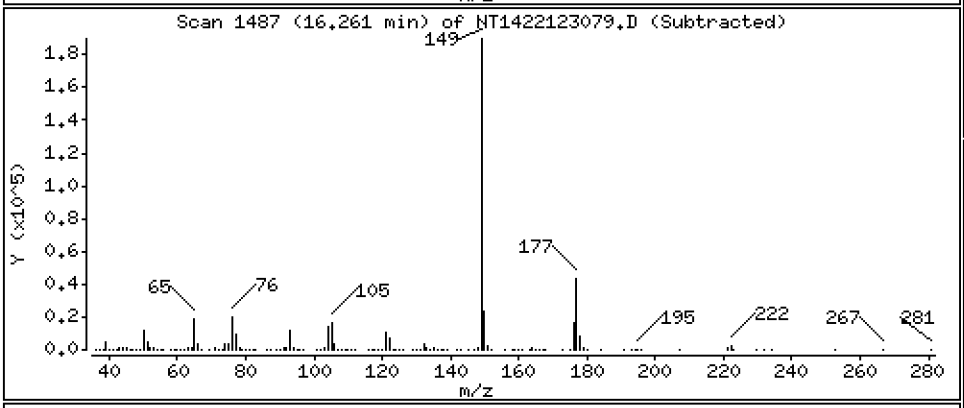
Column diameter: 0.25

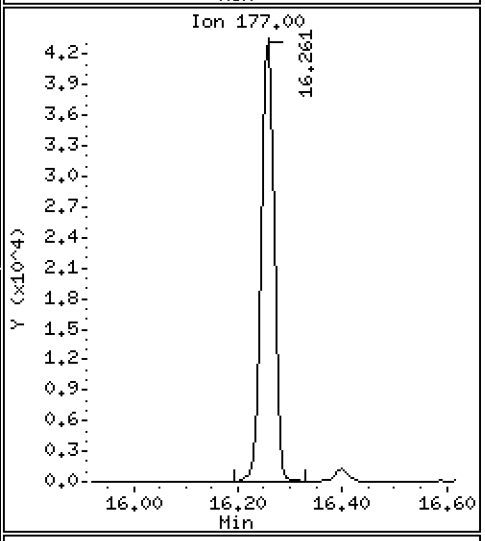
50 Diethylphthalate

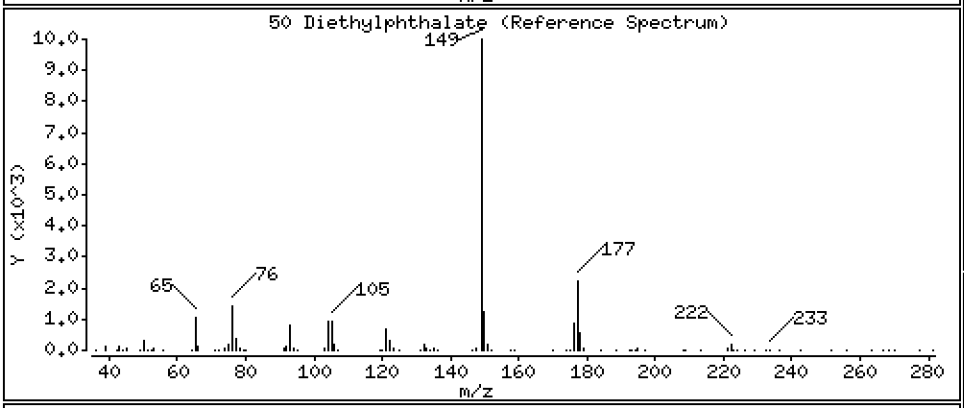
Concentration: 6.242 ug/mL

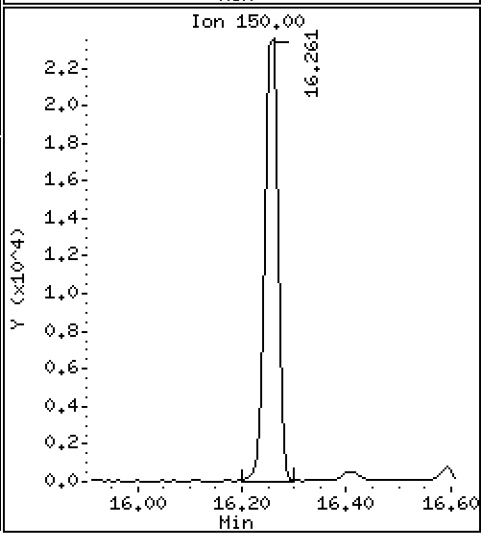


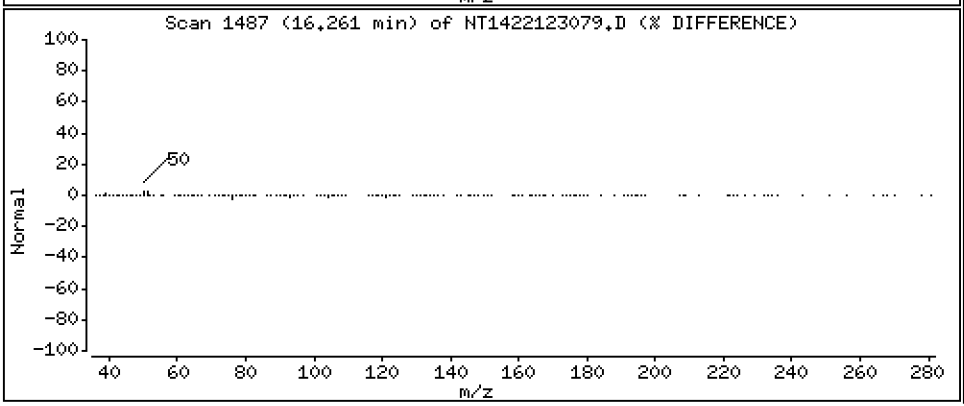












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

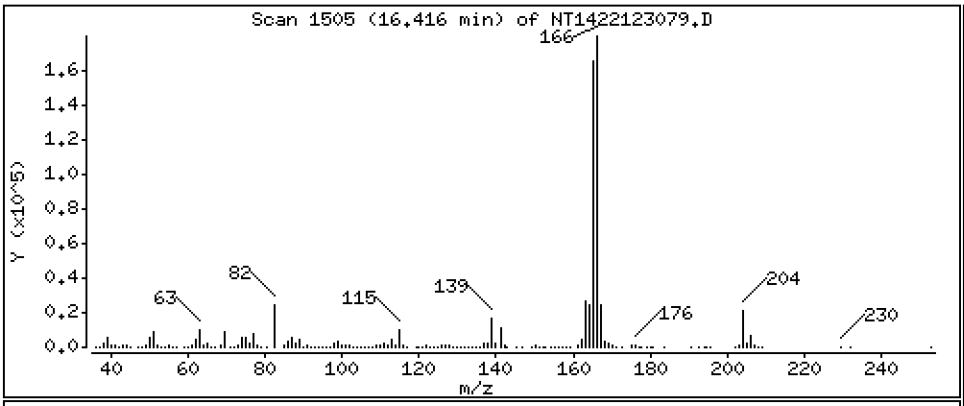
Operator: VTS

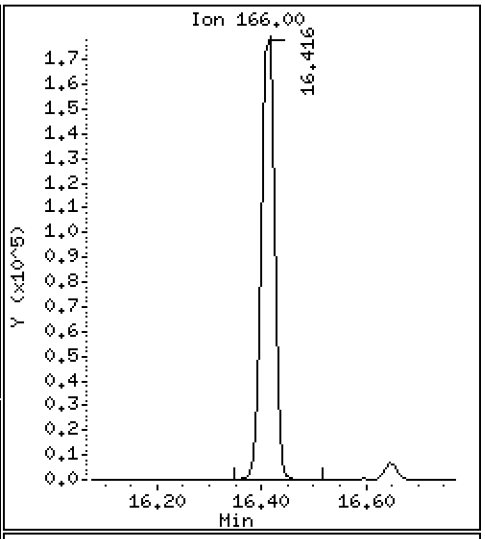
Column phase: ZB-5msi

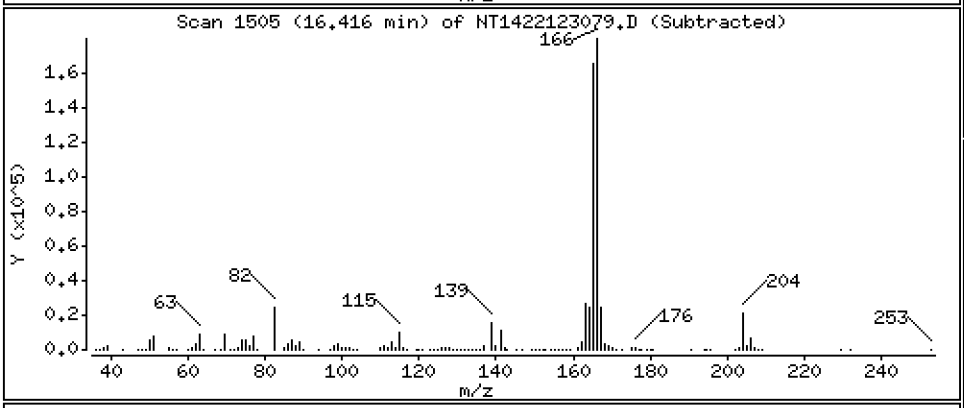
Column diameter: 0.25

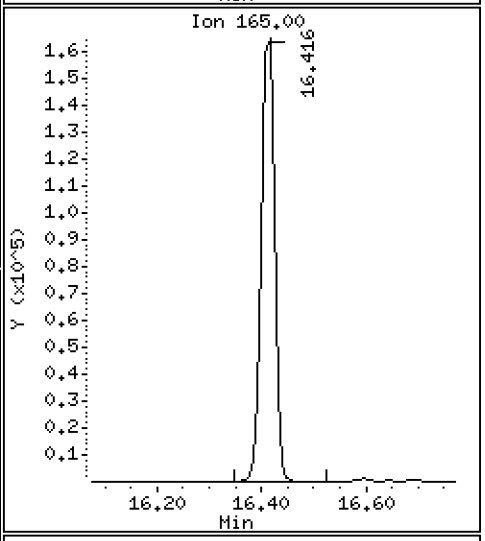
49 Fluorene

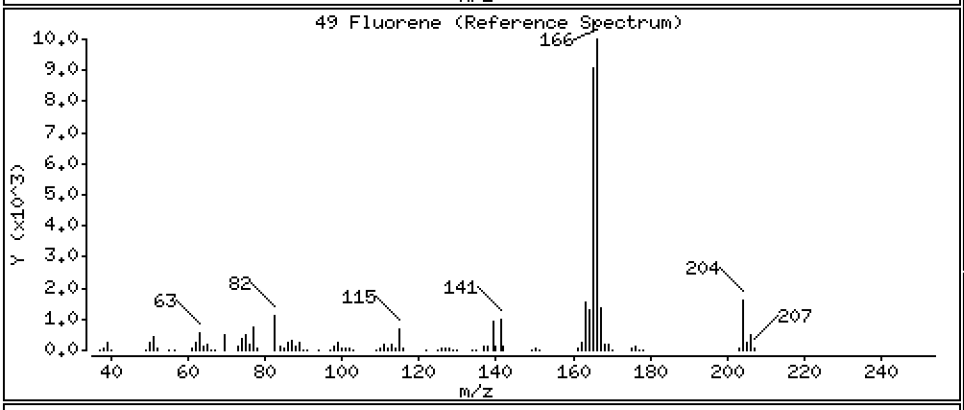
Concentration: 4.946 ug/mL

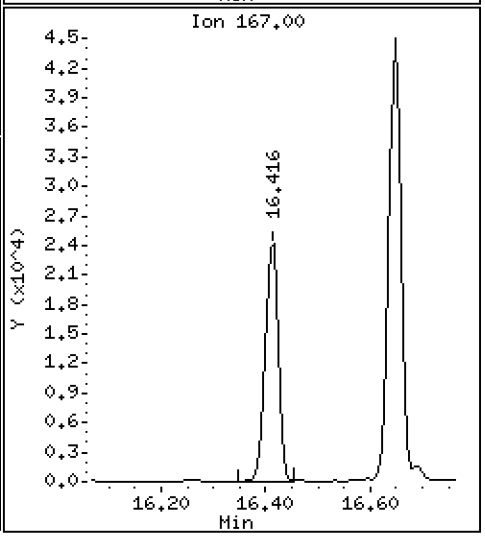


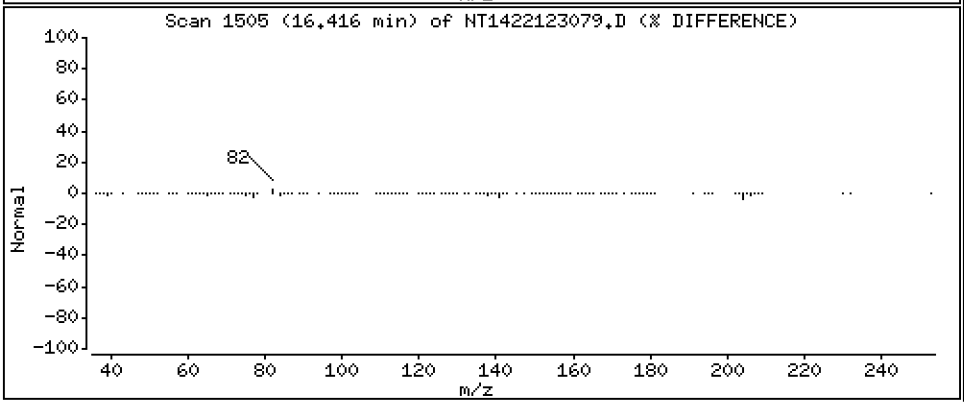












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

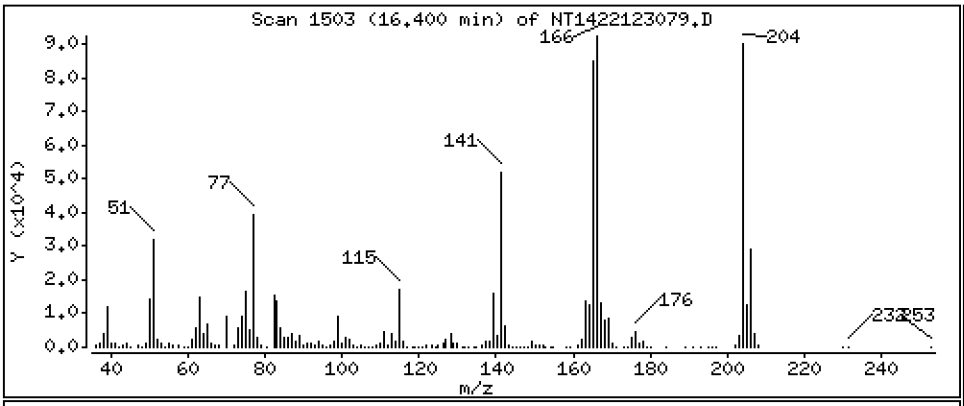
Operator: VTS

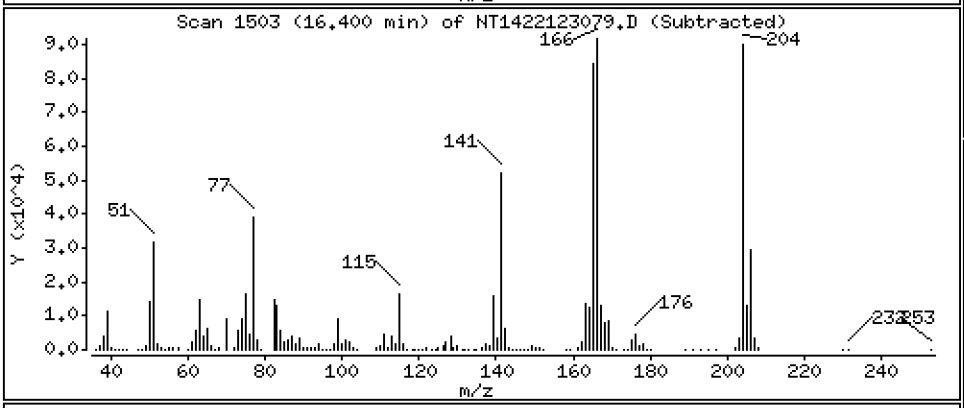
Column phase: ZB-5msi

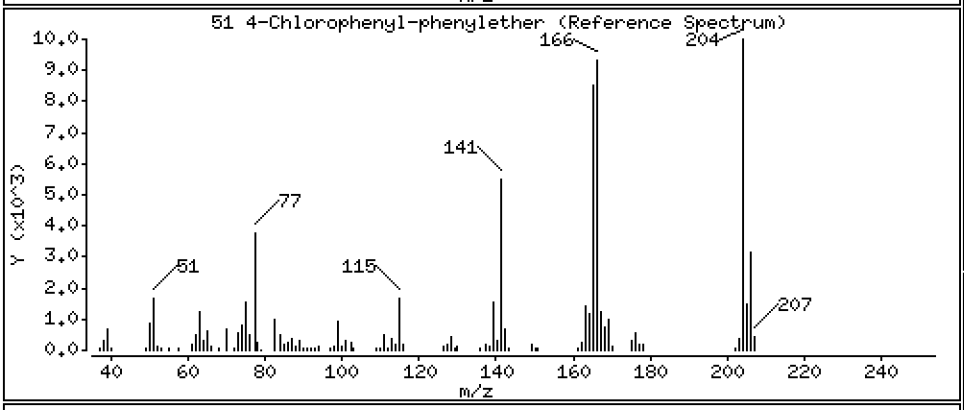
Column diameter: 0.25

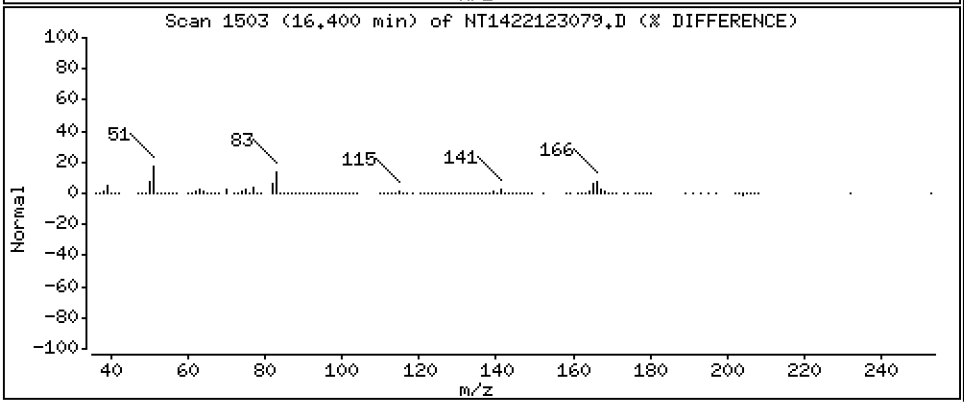
51 4-Chlorophenyl-phenylether

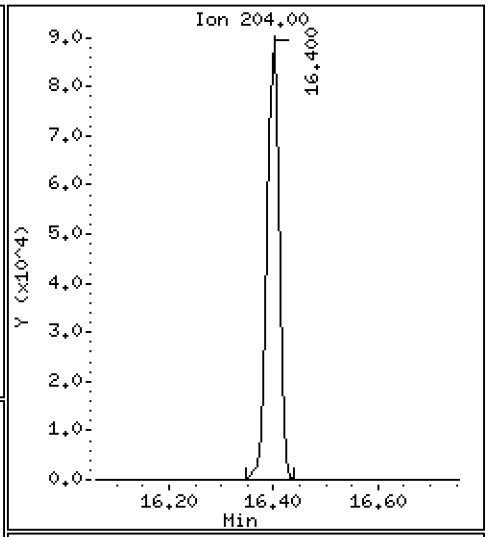
Concentration: 5.005 ug/mL

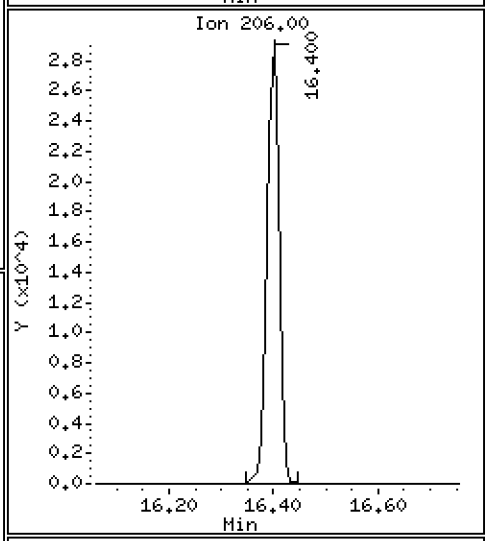


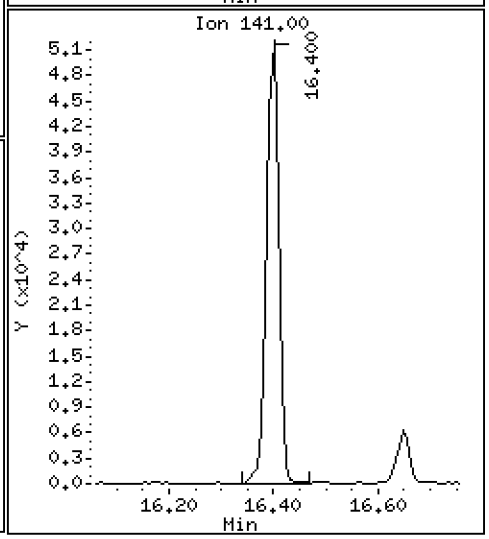












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

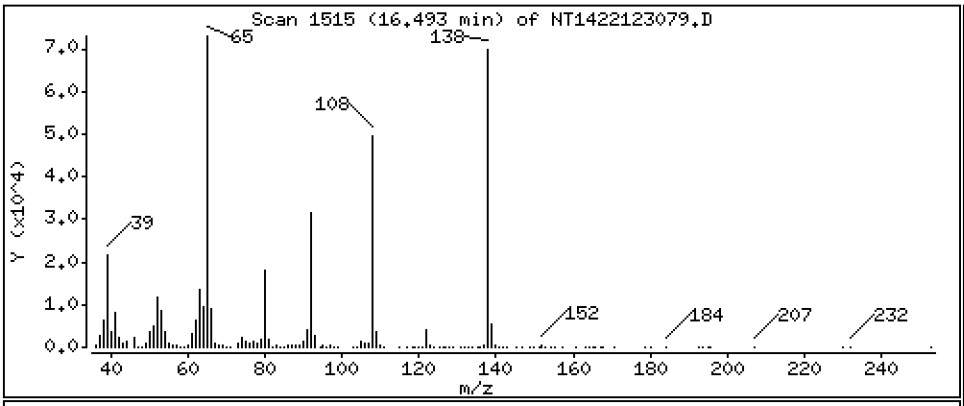
Operator: VTS

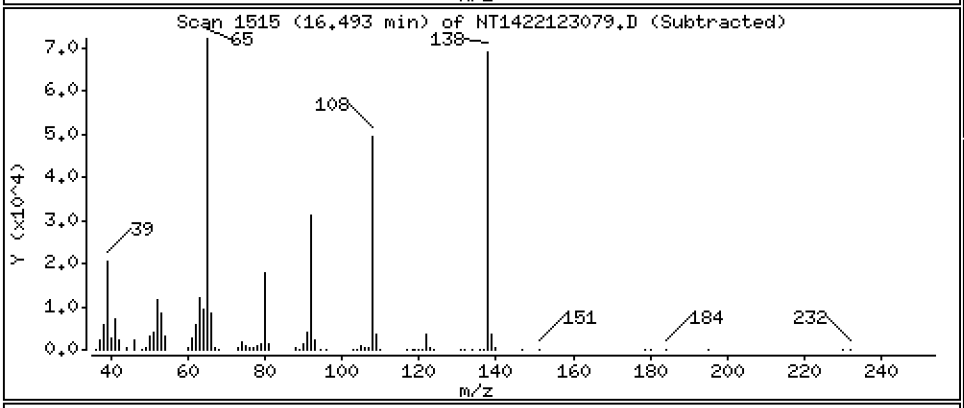
Column phase: ZB-5msi

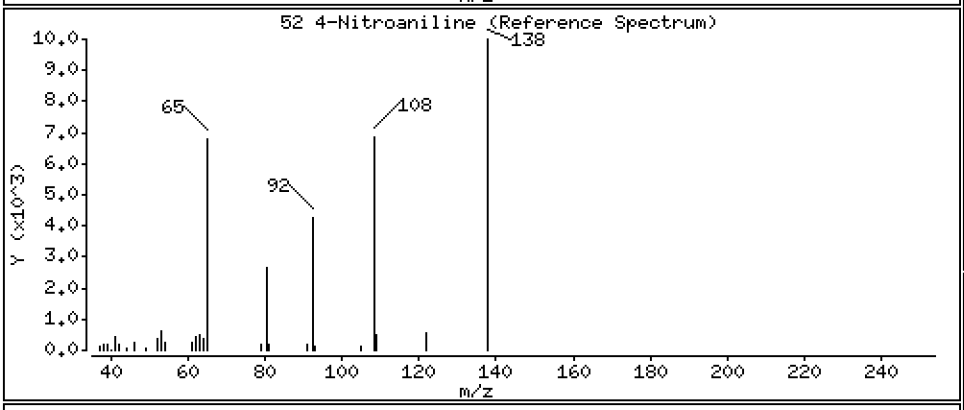
Column diameter: 0.25

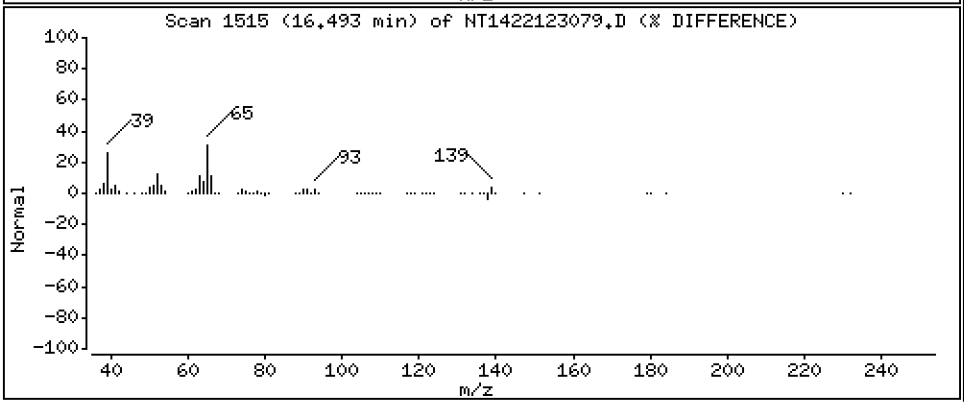
52 4-Nitroaniline

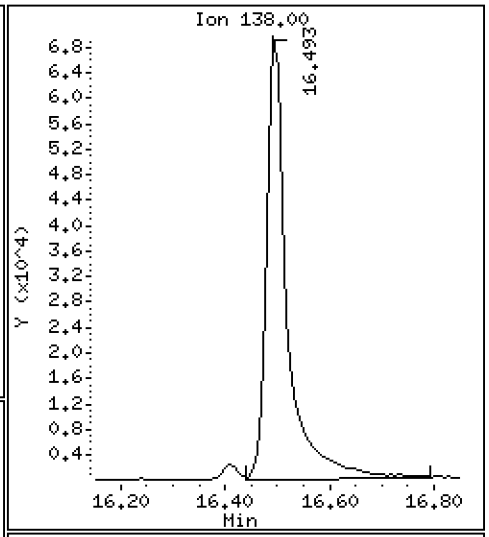
Concentration: 12.54 ug/mL

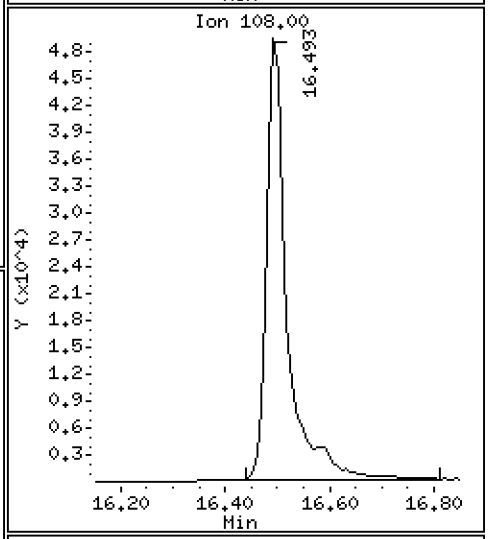


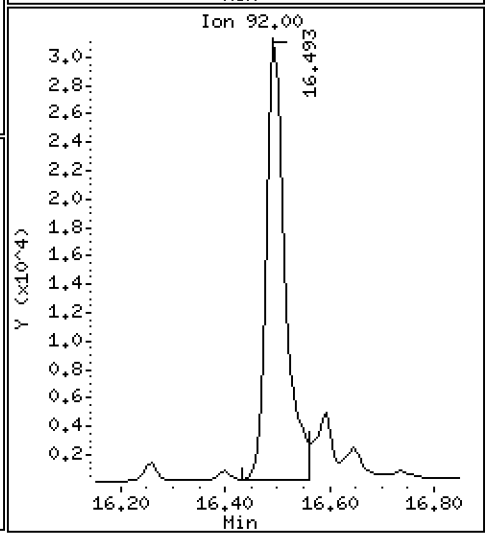












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

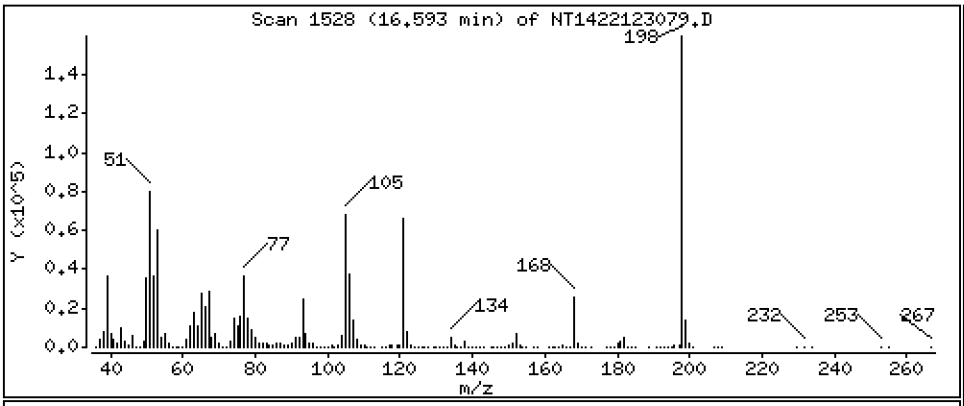
Operator: VTS

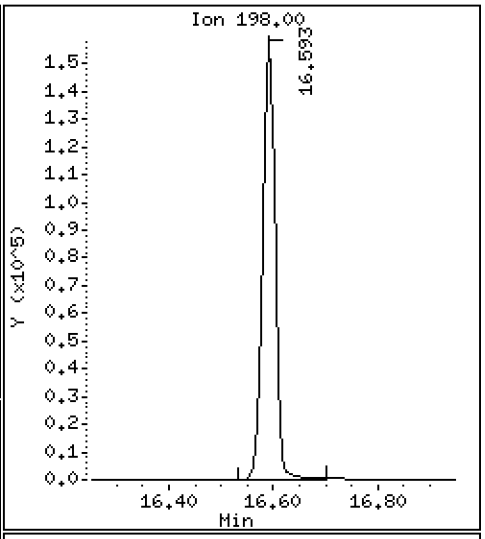
Column phase: ZB-5msi

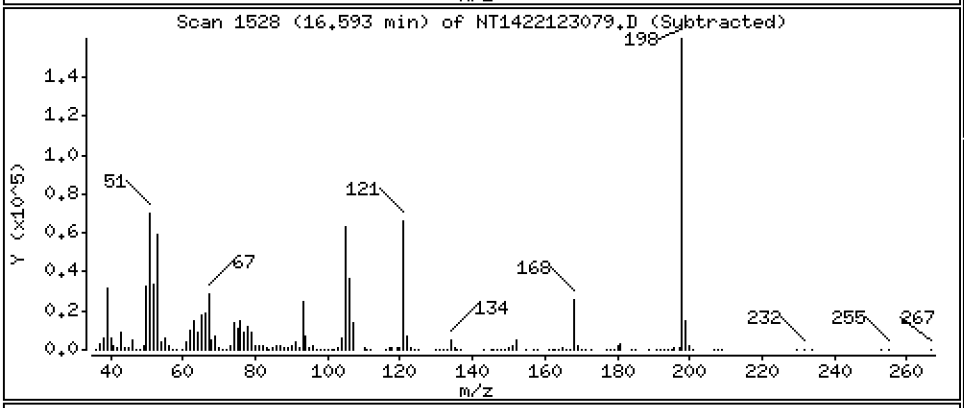
Column diameter: 0.25

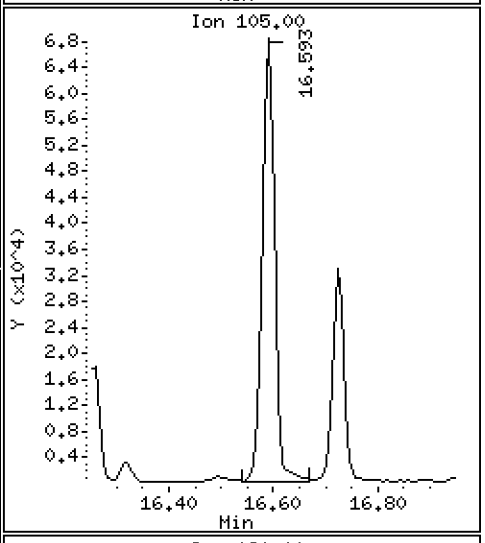
53 4,6-Dinitro-2-methylphenol

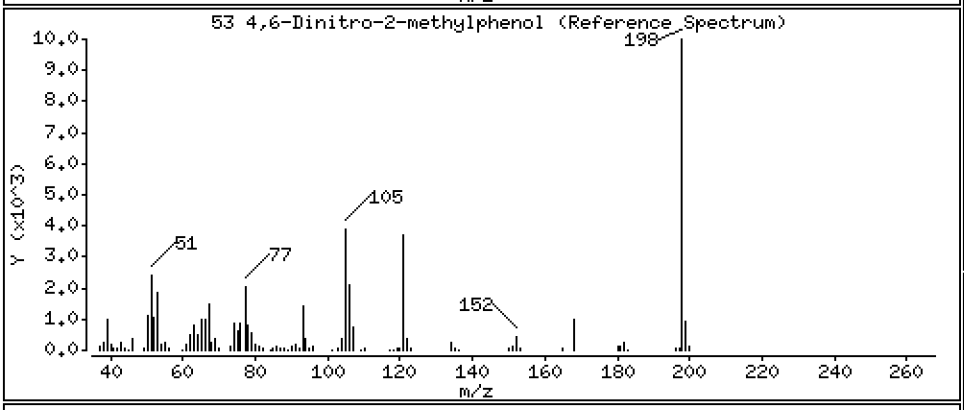
Concentration: 22.17 ug/mL

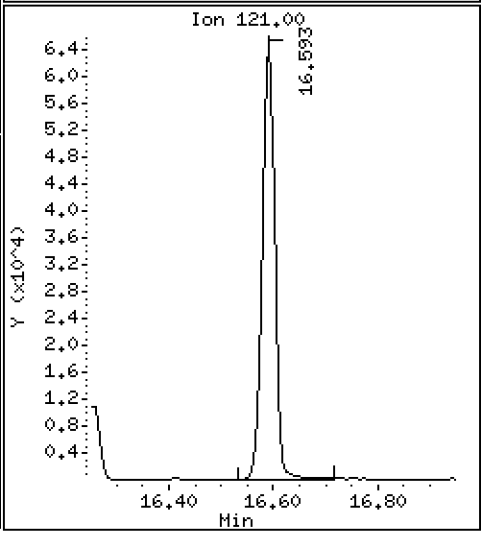


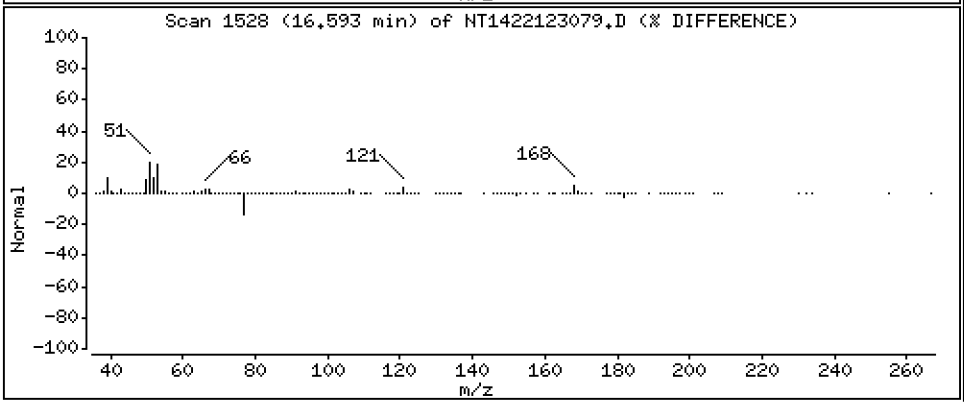












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123079.D

Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

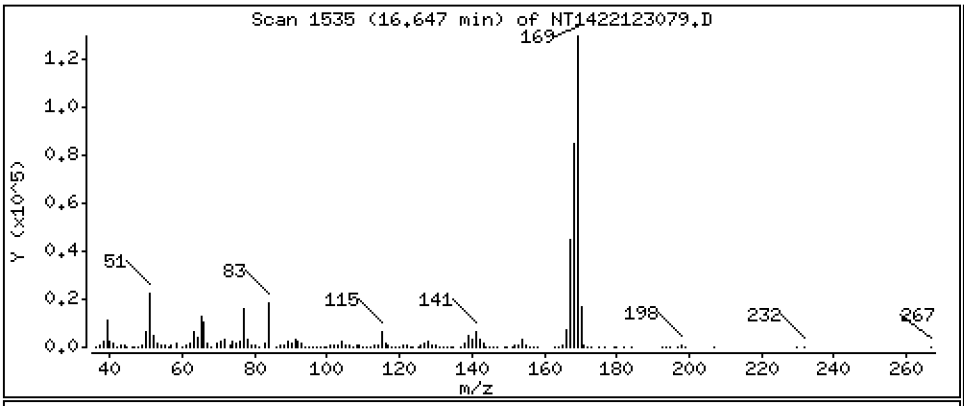
Operator: VTS

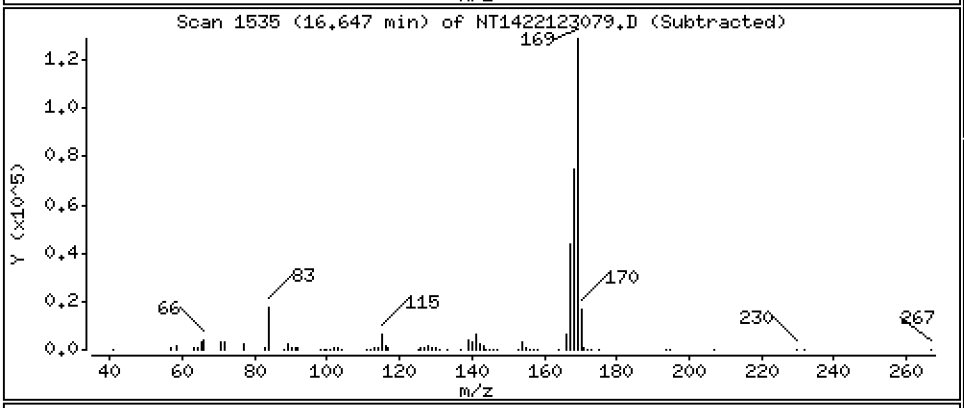
Column phase: ZB-5msi

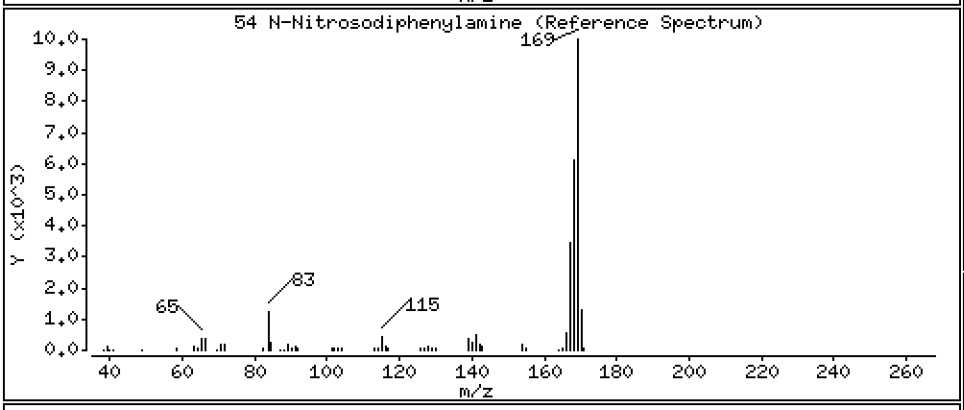
Column diameter: 0.25

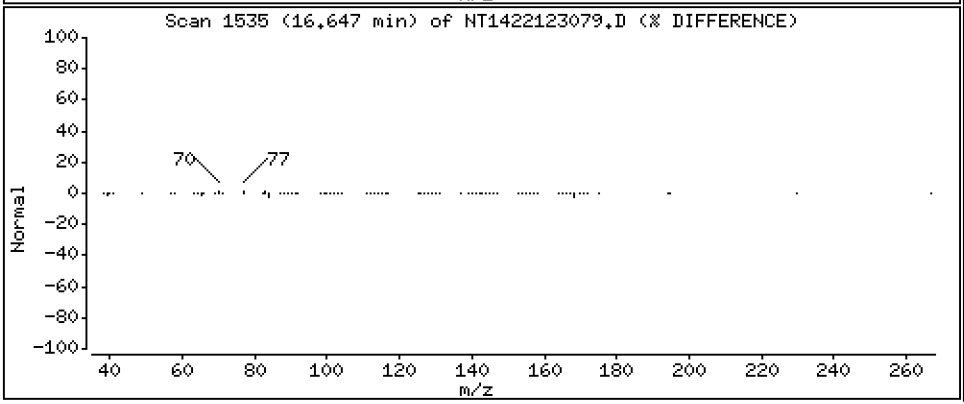
54 N-Nitrosodiphenylamine

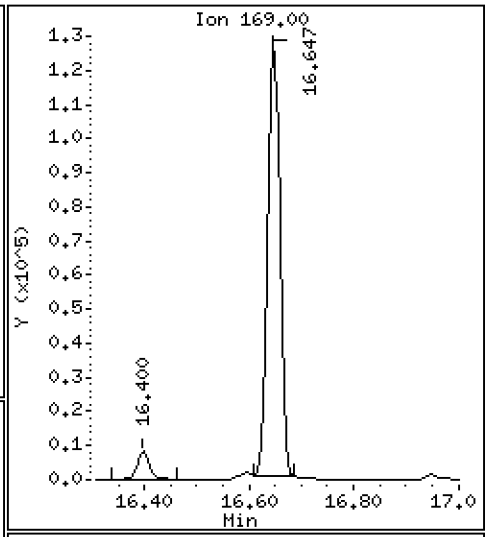
Concentration: 4.519 ug/mL

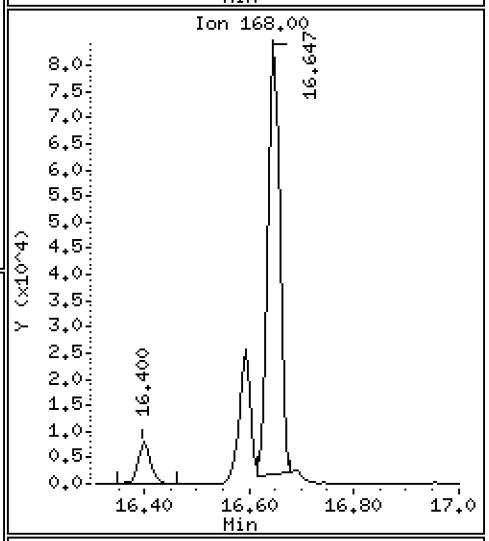


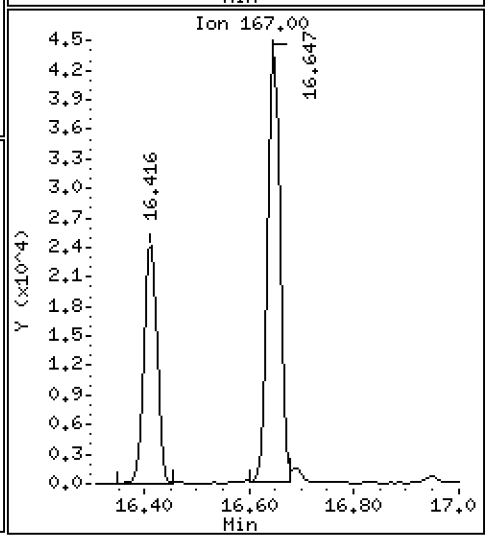












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

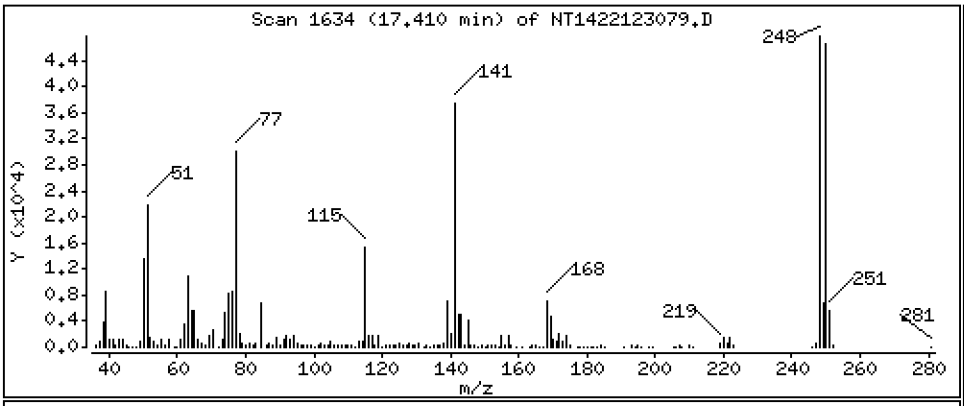
Operator: VTS

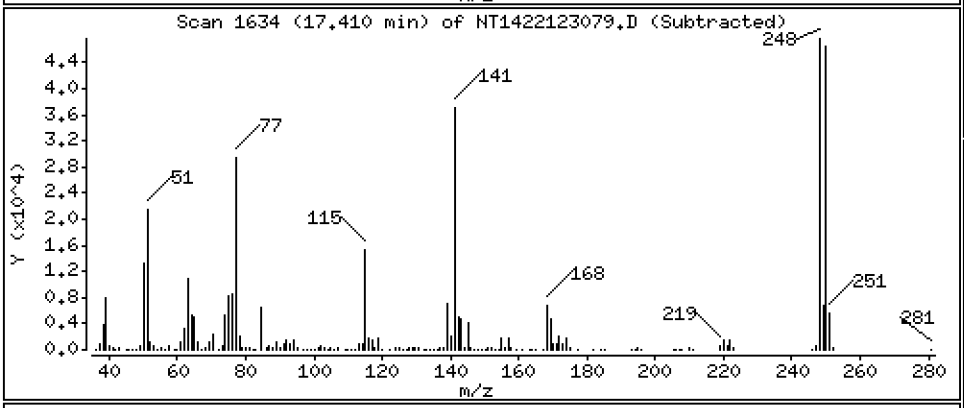
Column phase: ZB-5msi

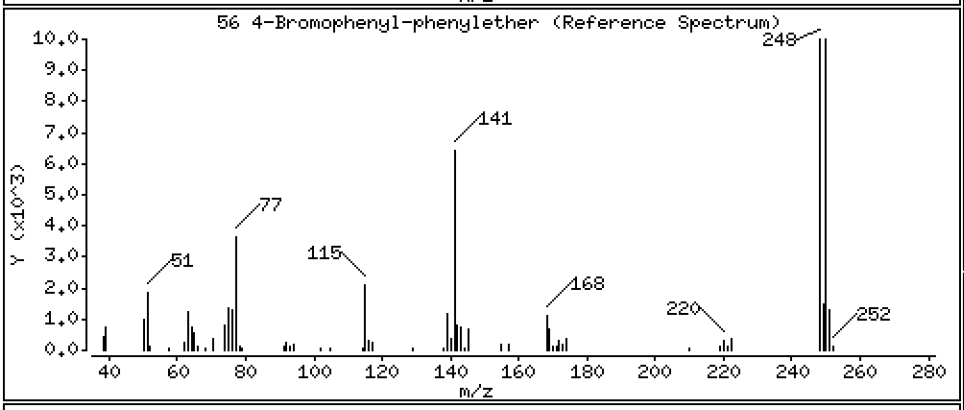
Column diameter: 0.25

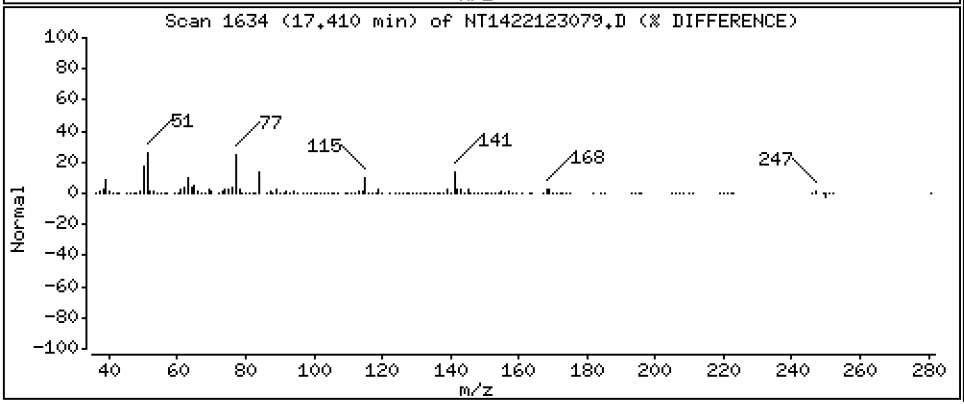
56 4-Bromophenyl-phenylether

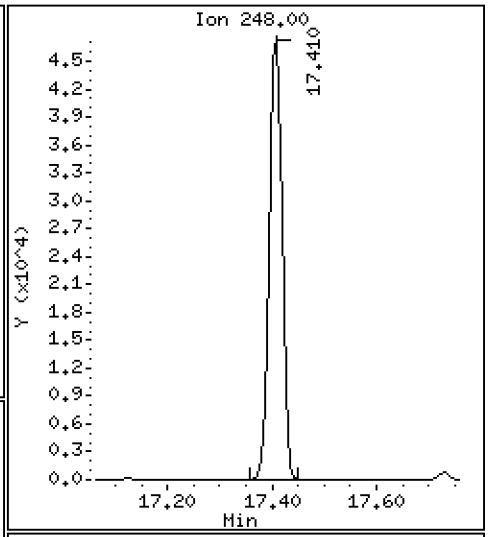
Concentration: 4.698 ug/mL

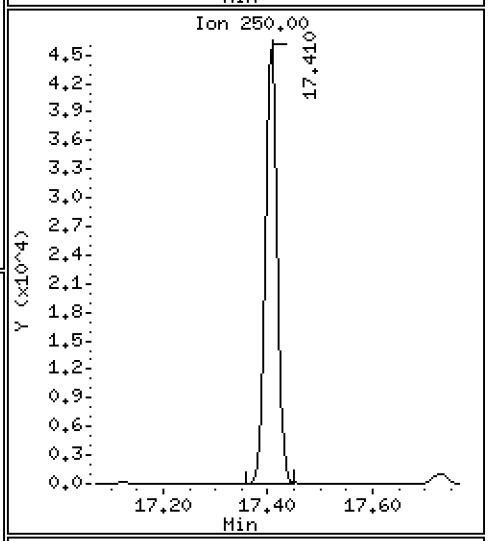


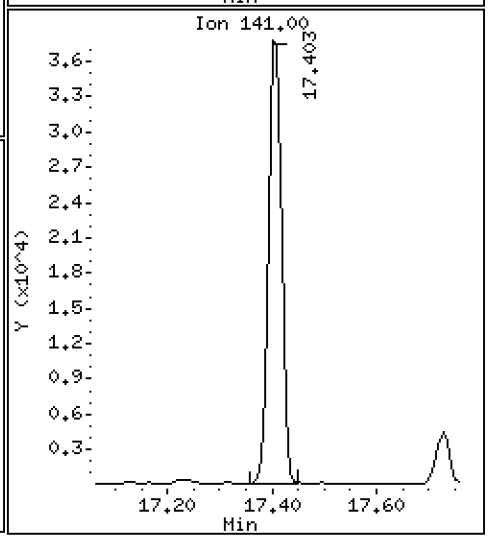












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

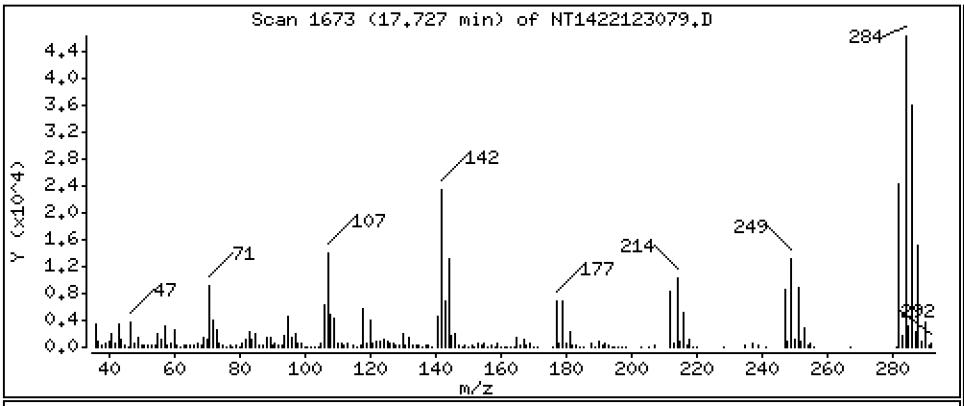
Operator: VTS

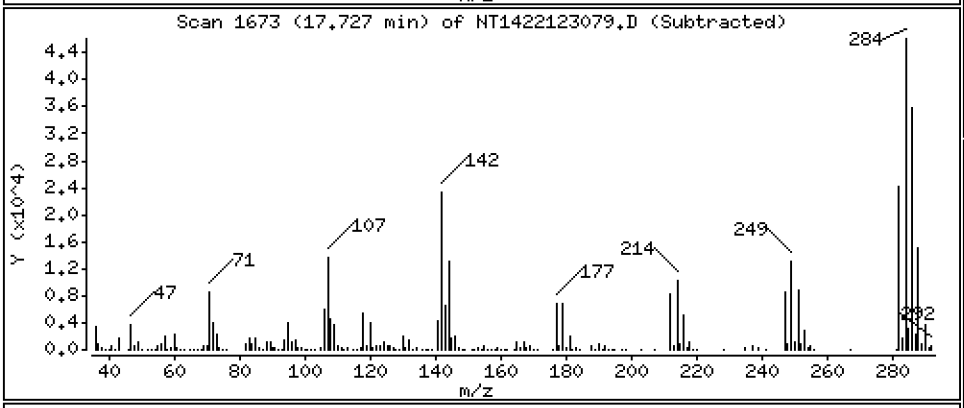
Column phase: ZB-5msi

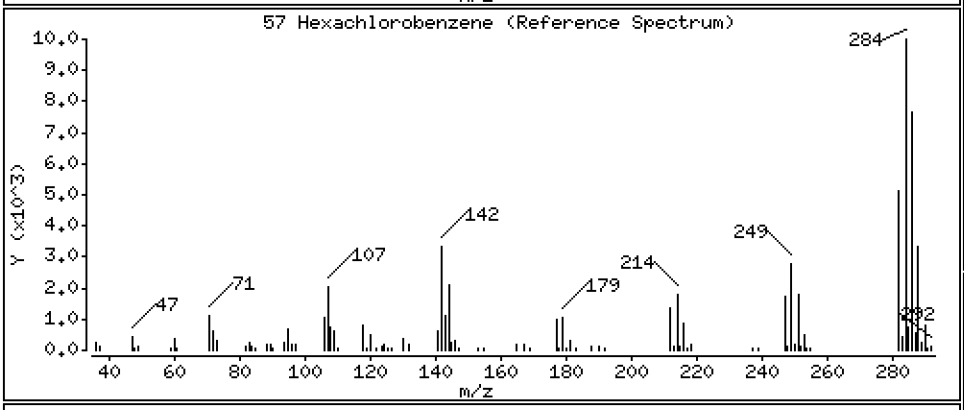
Column diameter: 0.25

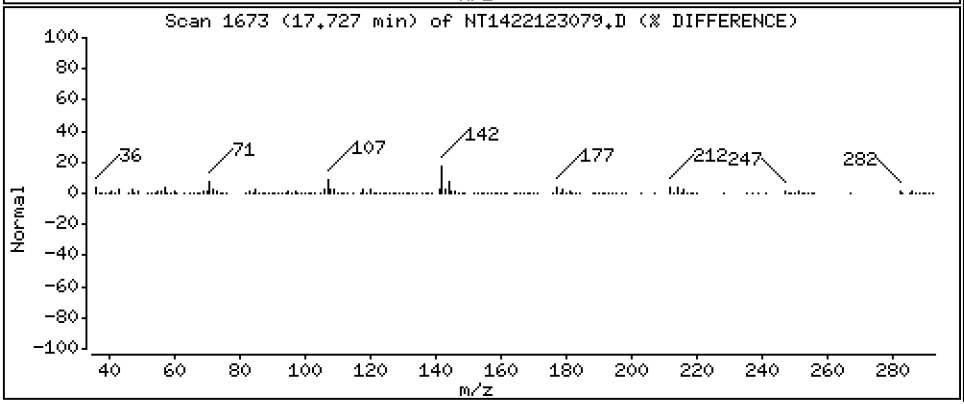
57 Hexachlorobenzene

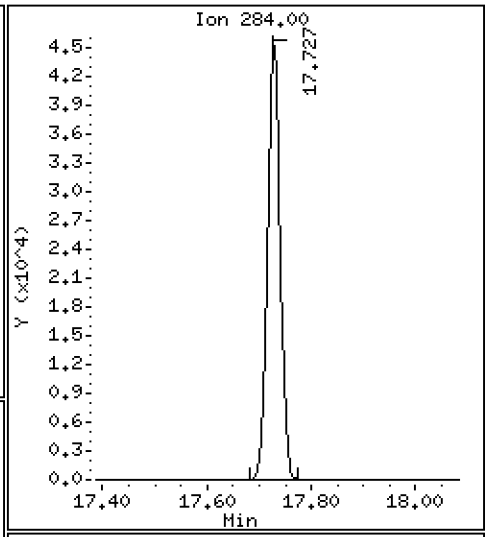
Concentration: 4.290 ug/mL

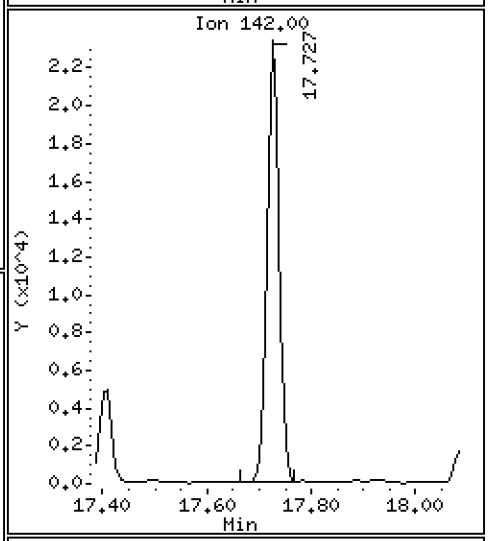


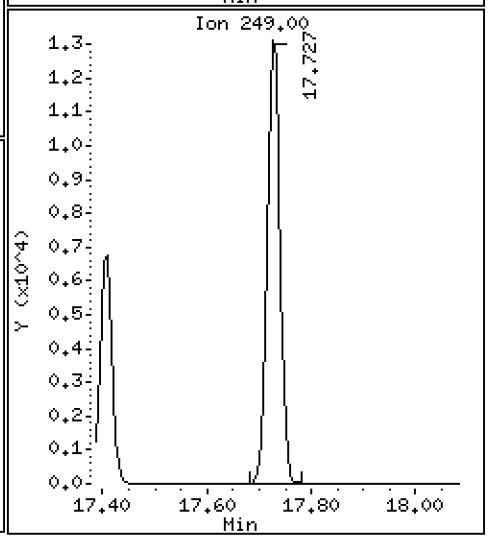












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

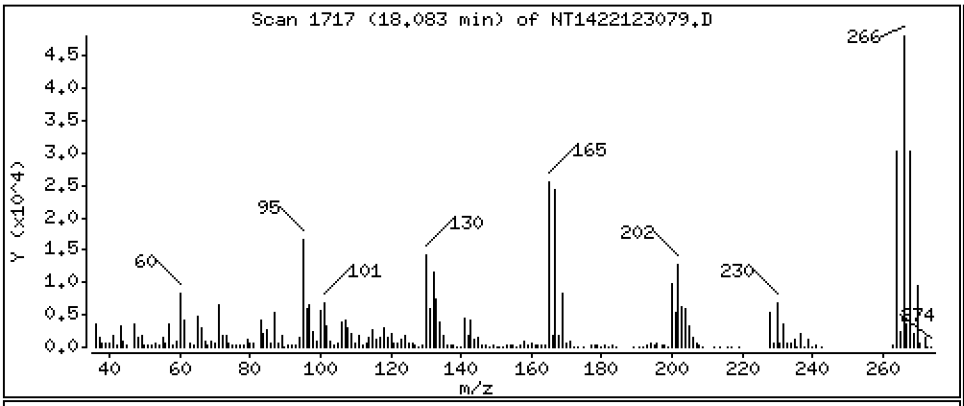
Operator: VTS

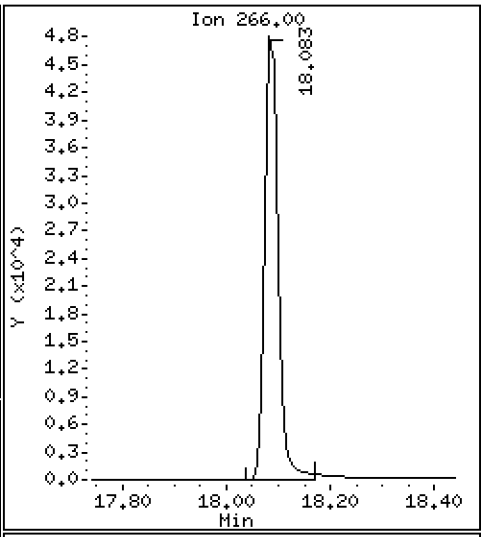
Column phase: ZB-5msi

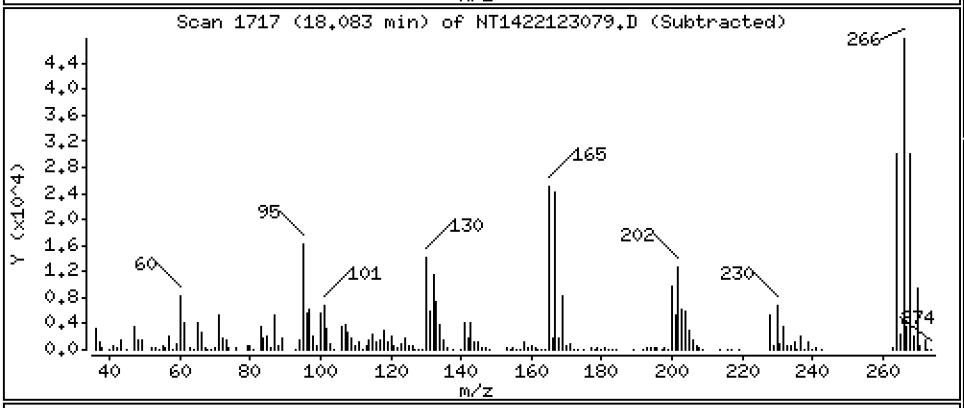
Column diameter: 0.25

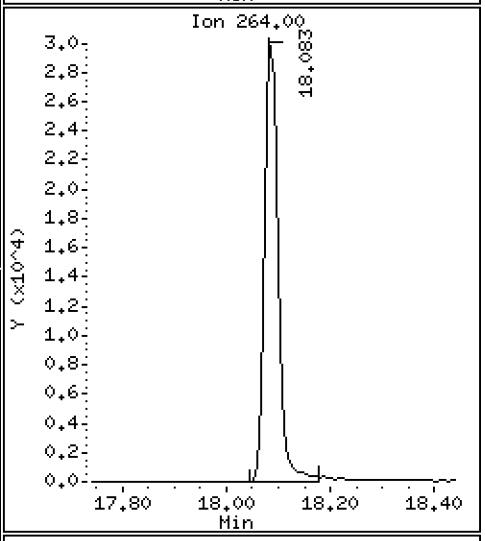
58 Pentachlorophenol

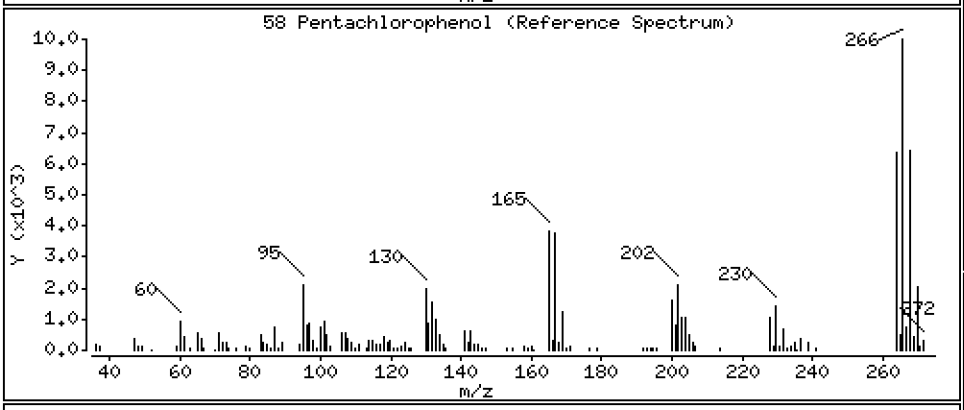
Concentration: 9.975 ug/mL

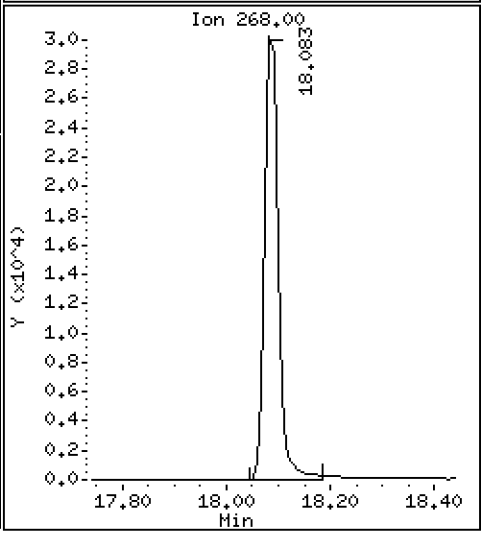


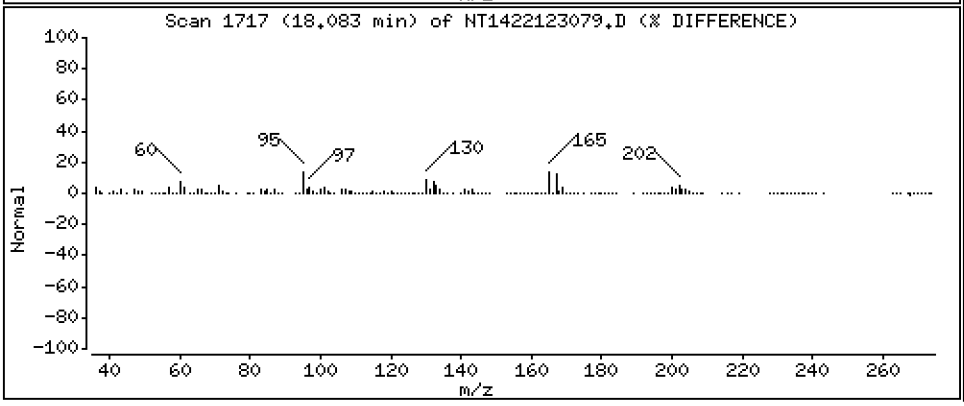












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

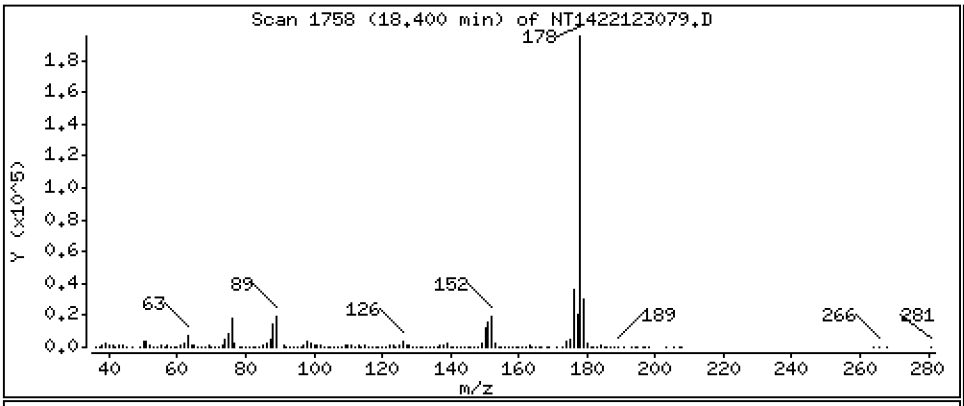
Operator: VTS

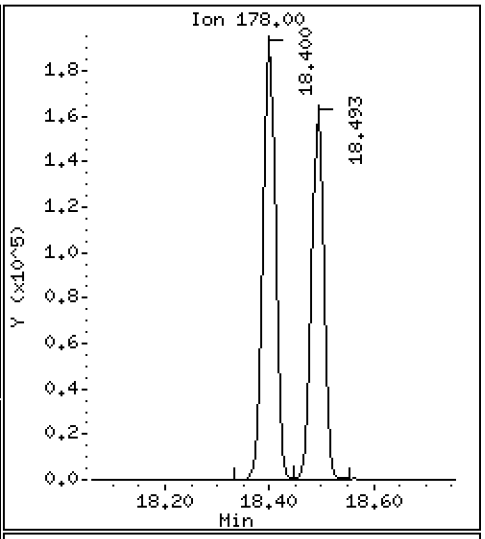
Column phase: ZB-5msi

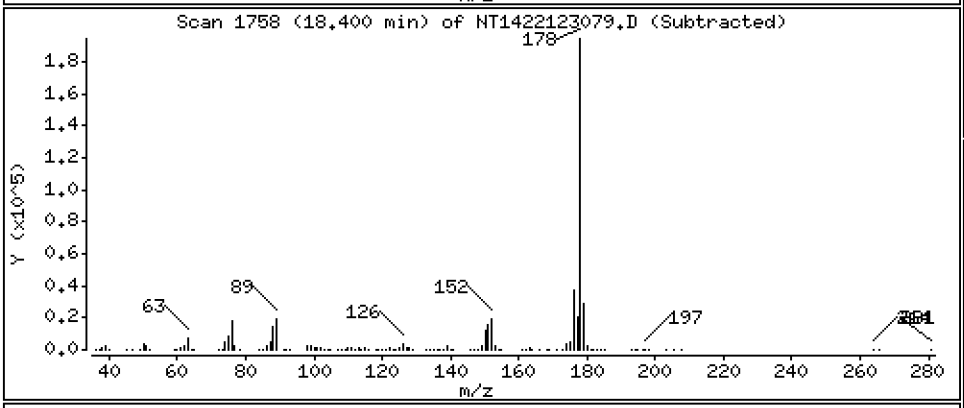
Column diameter: 0.25

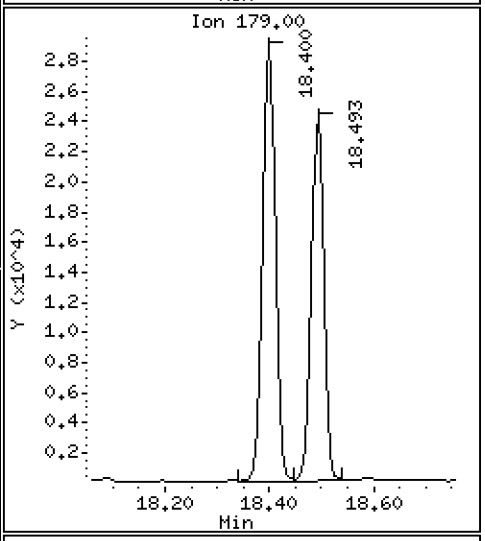
60 Phenanthrene

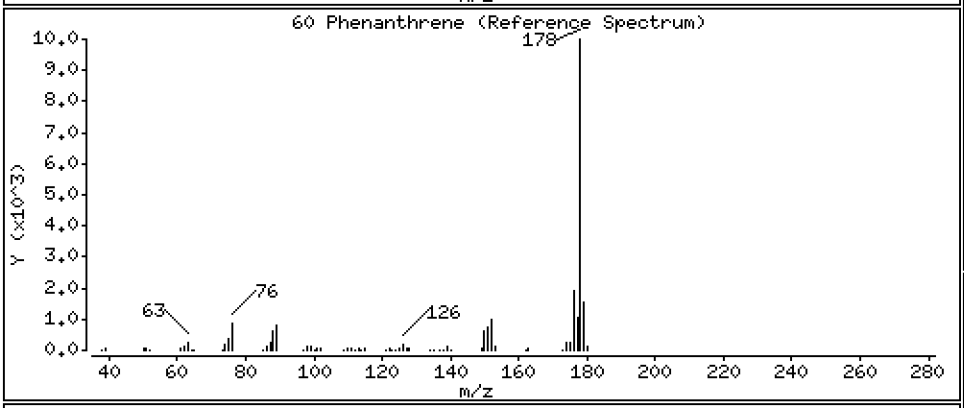
Concentration: 4.650 ug/mL

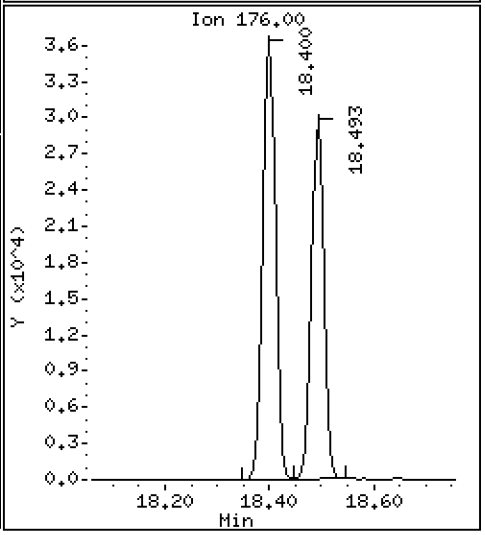


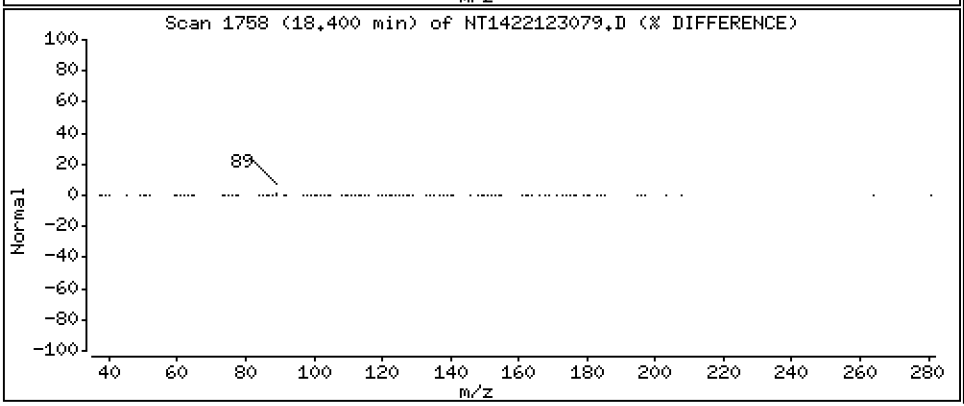












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

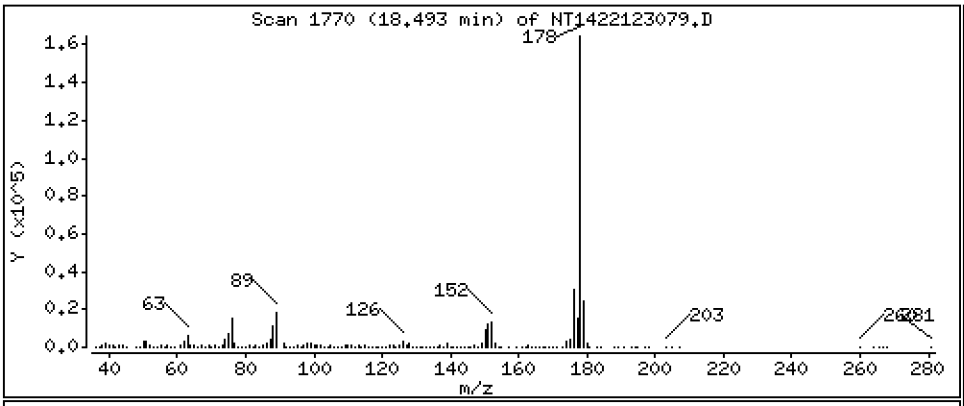
Operator: VTS

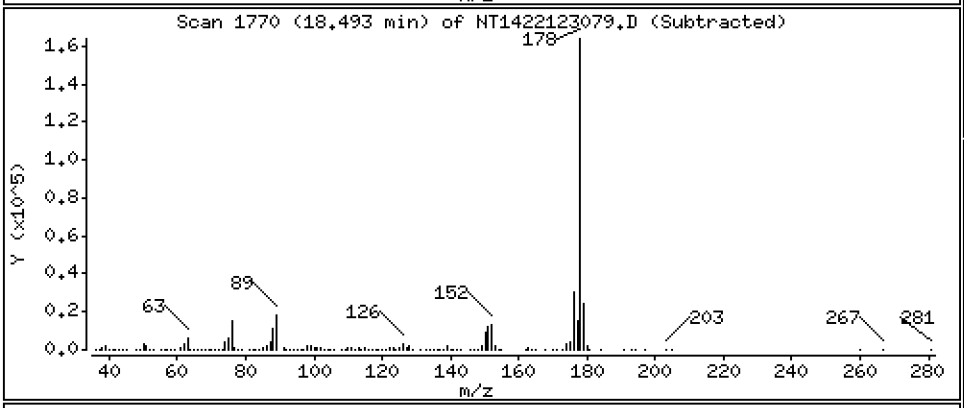
Column phase: ZB-5msi

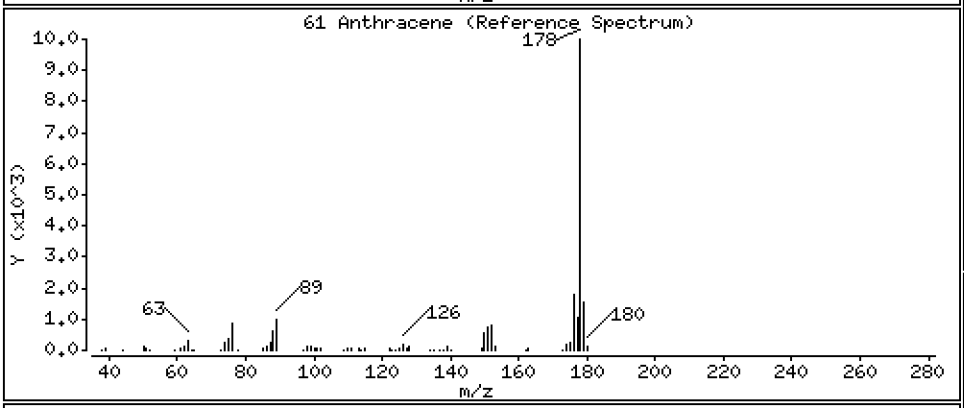
Column diameter: 0.25

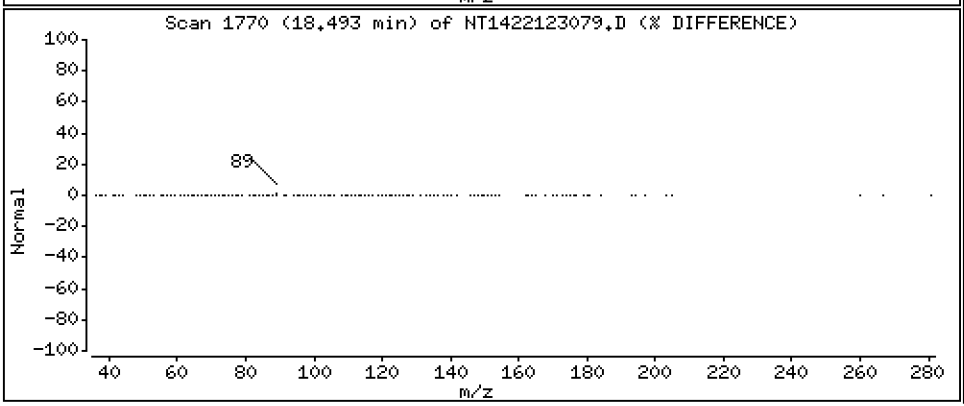
61 Anthracene

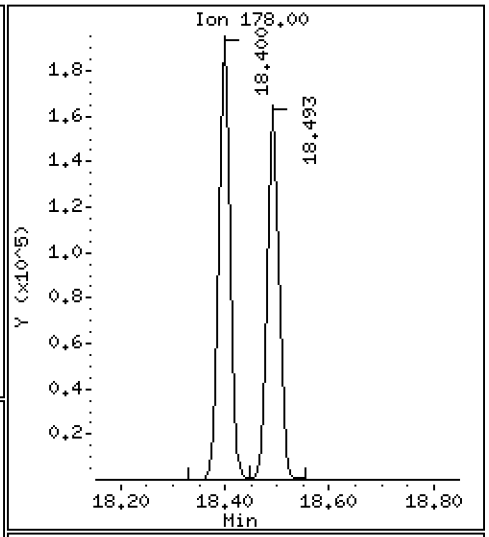
Concentration: 3.994 ug/mL

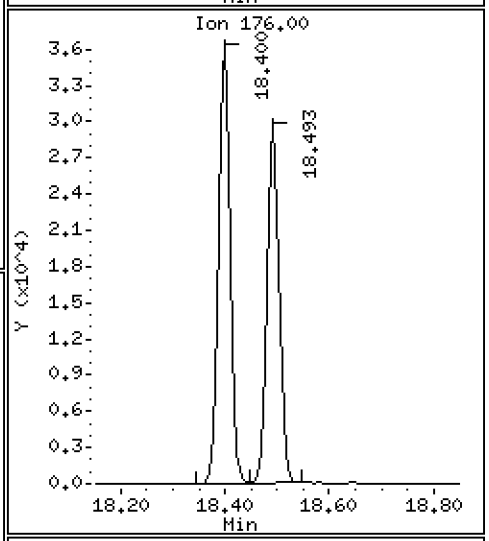


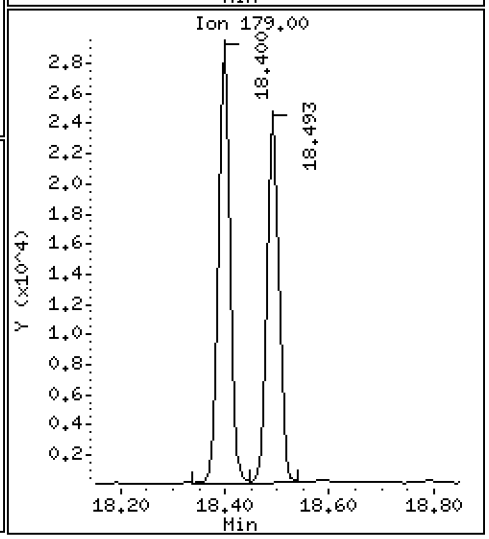












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

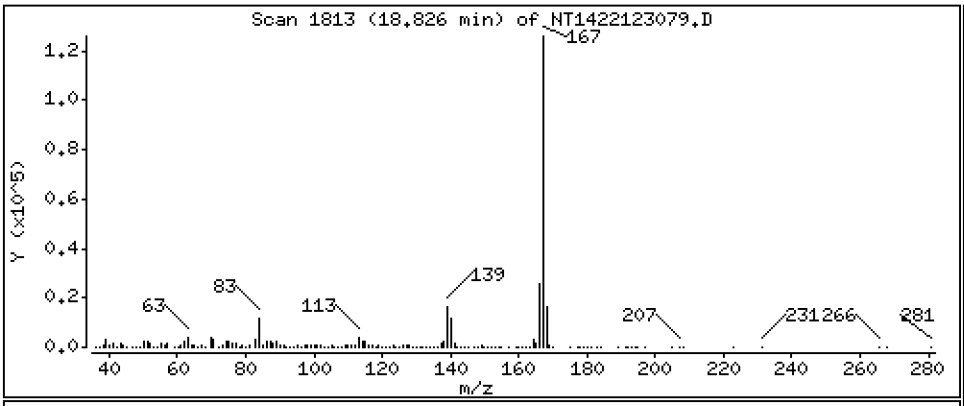
Operator: VTS

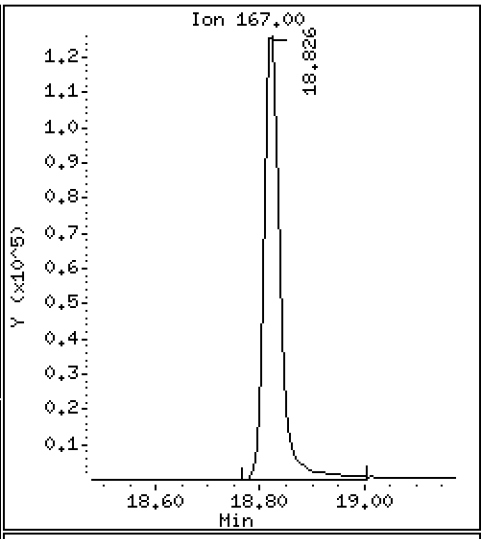
Column phase: ZB-5msi

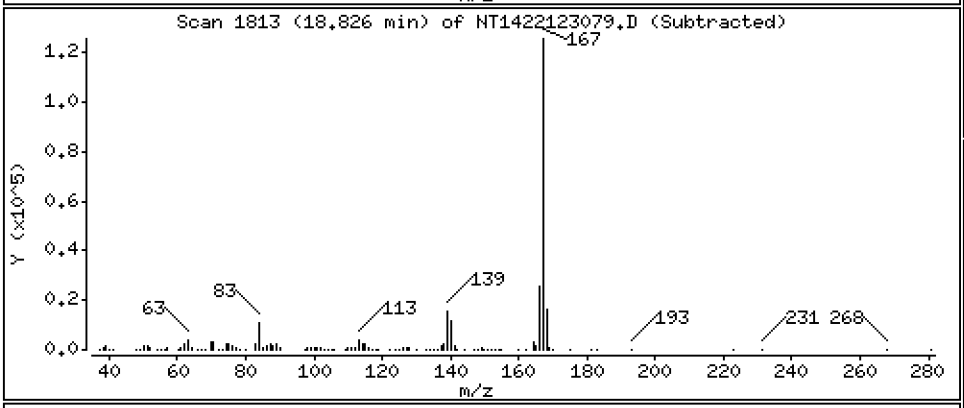
Column diameter: 0.25

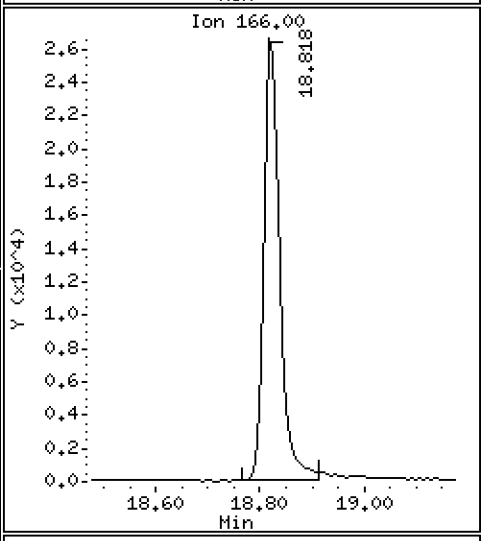
62 Carbazole

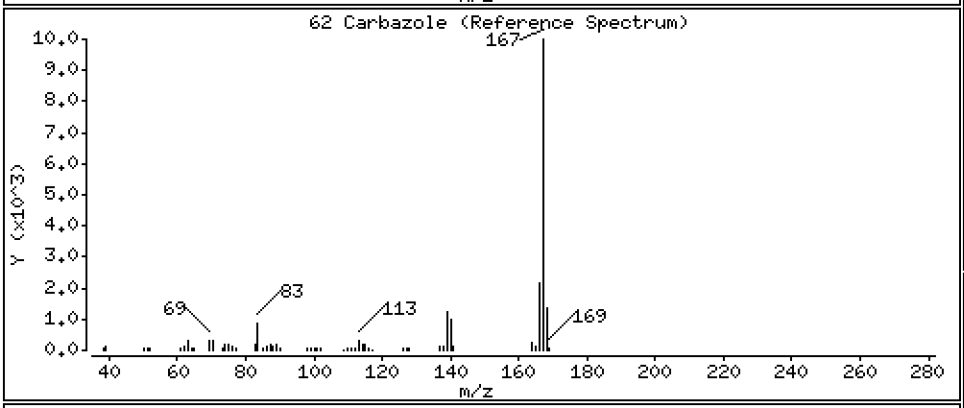
Concentration: 4.393 ug/mL

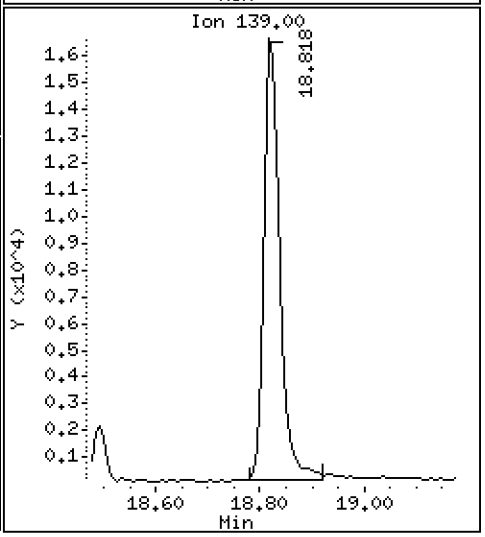


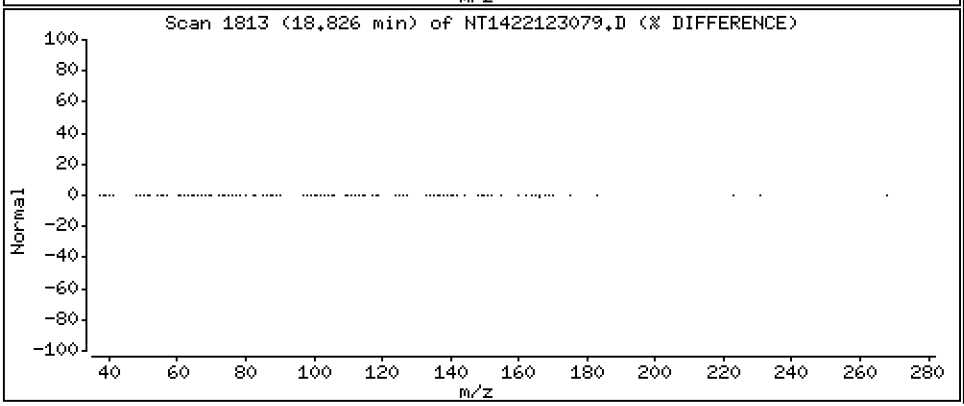












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123079.D

Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

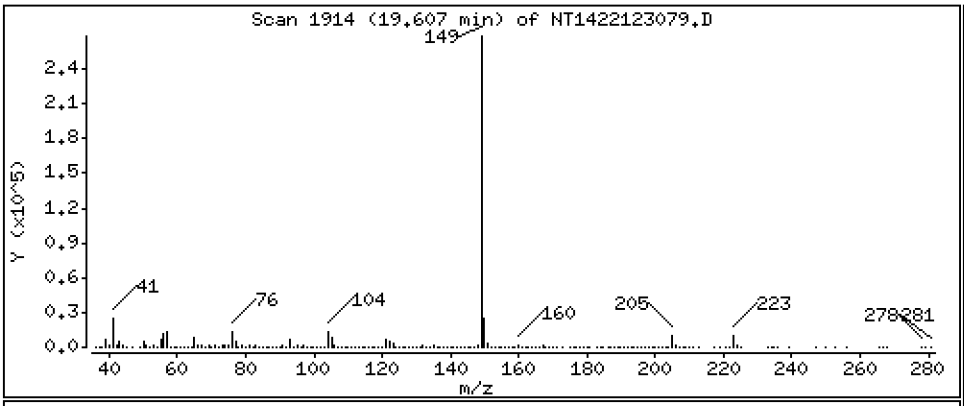
Operator: VTS

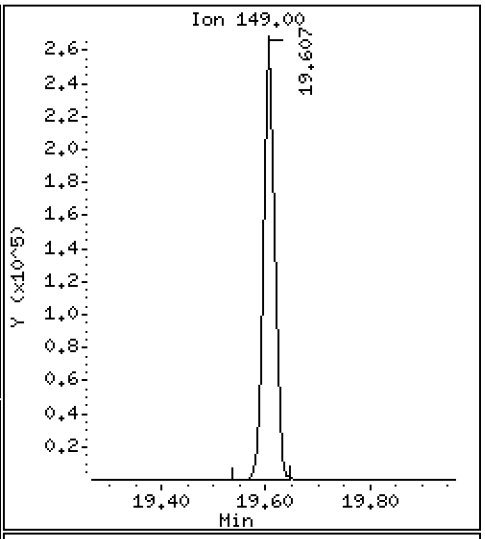
Column phase: ZB-5msi

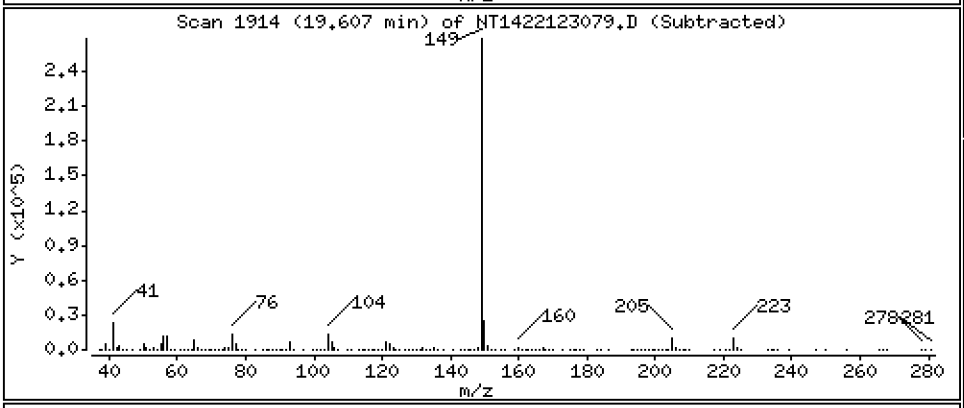
Column diameter: 0.25

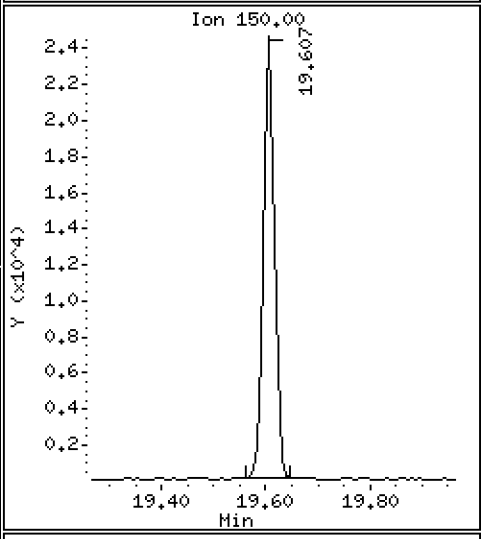
63 Di-n-butylphthalate

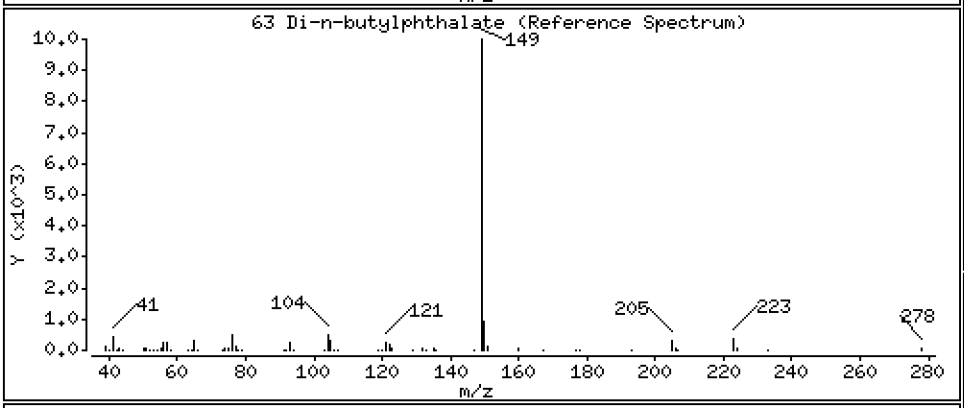
Concentration: 5.368 ug/mL

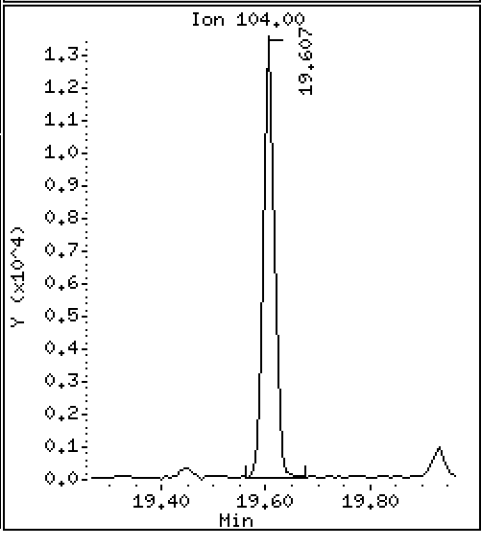


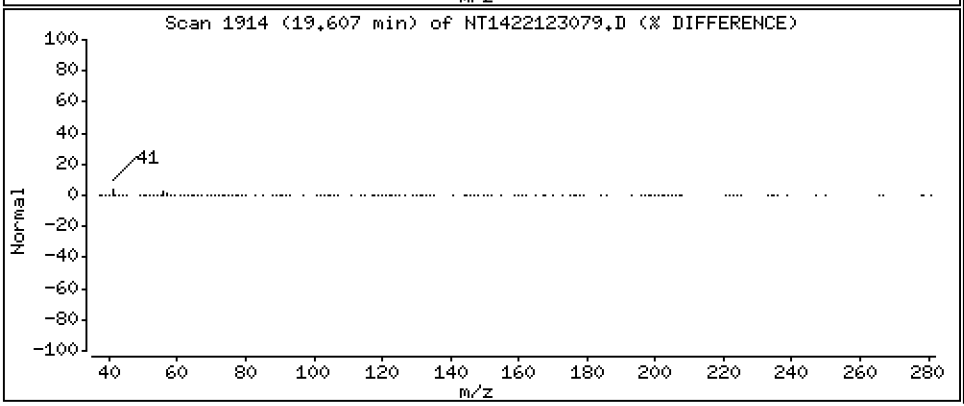












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

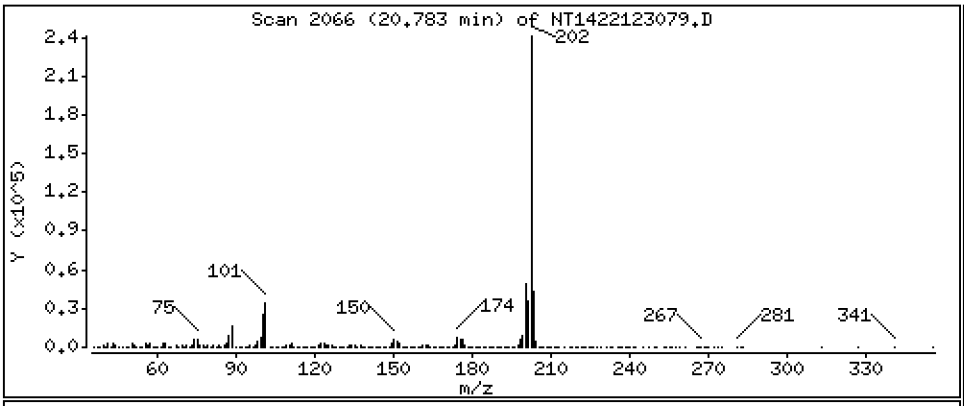
Operator: VTS

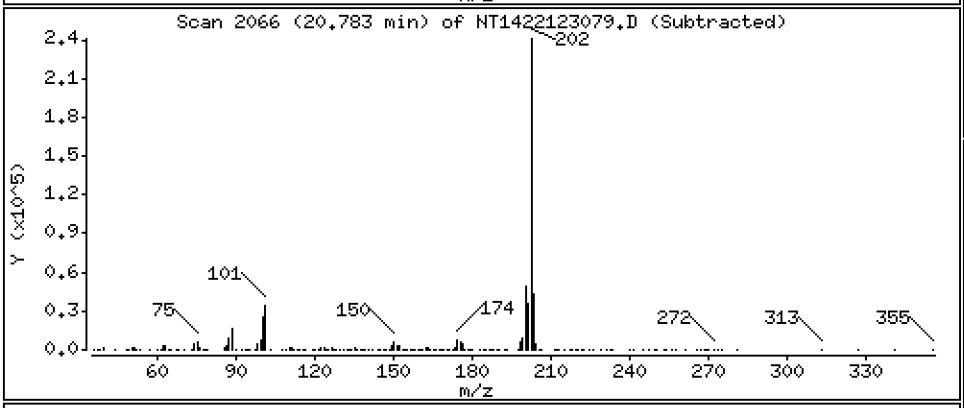
Column phase: ZB-5msi

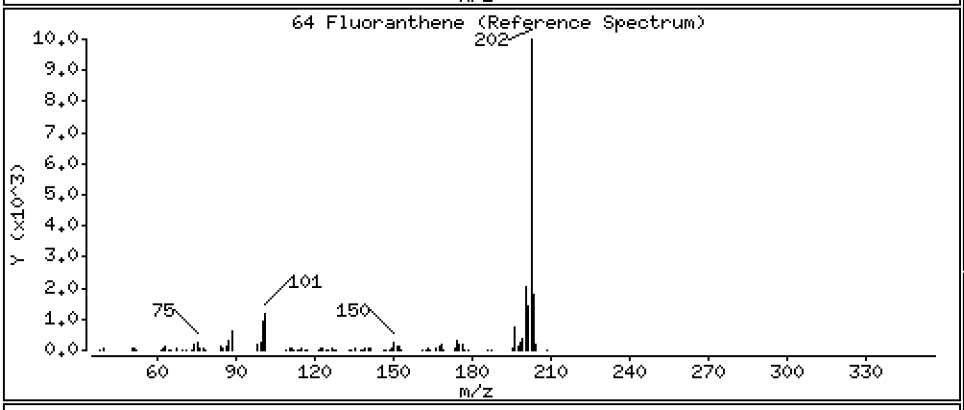
Column diameter: 0.25

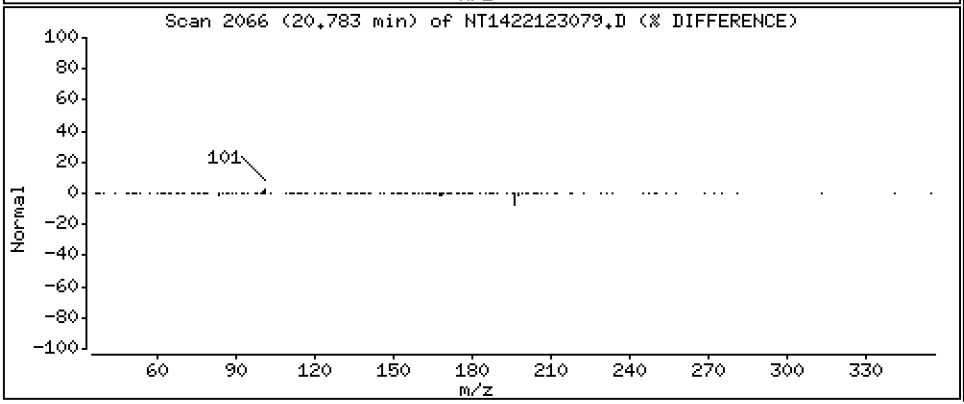
64 Fluoranthene

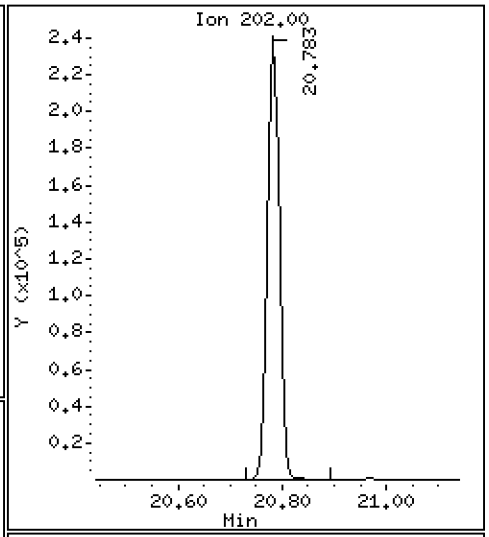
Concentration: 5.514 ug/mL

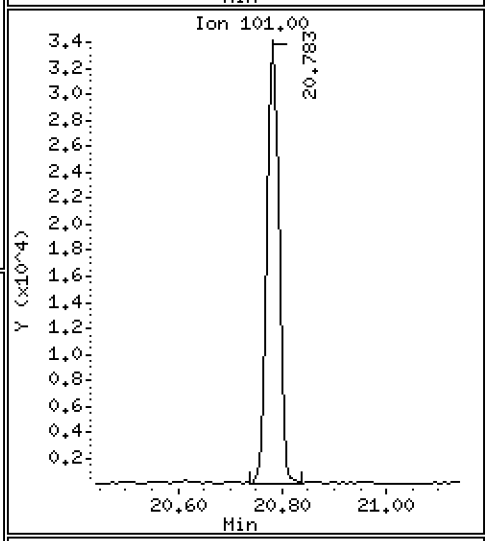


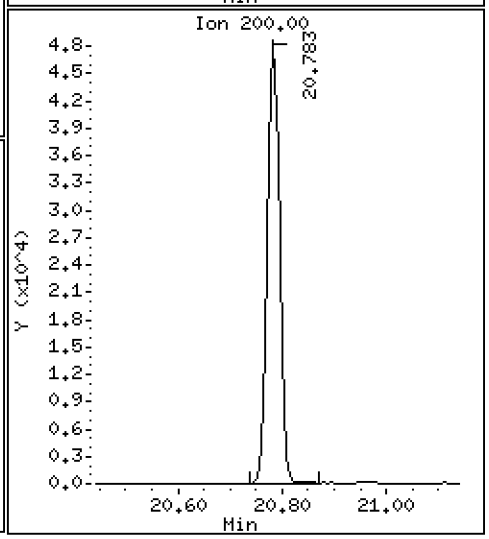












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

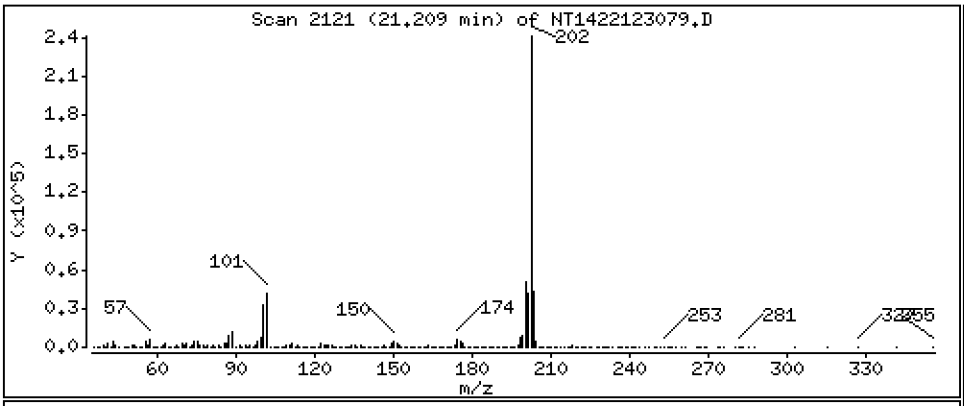
Operator: VTS

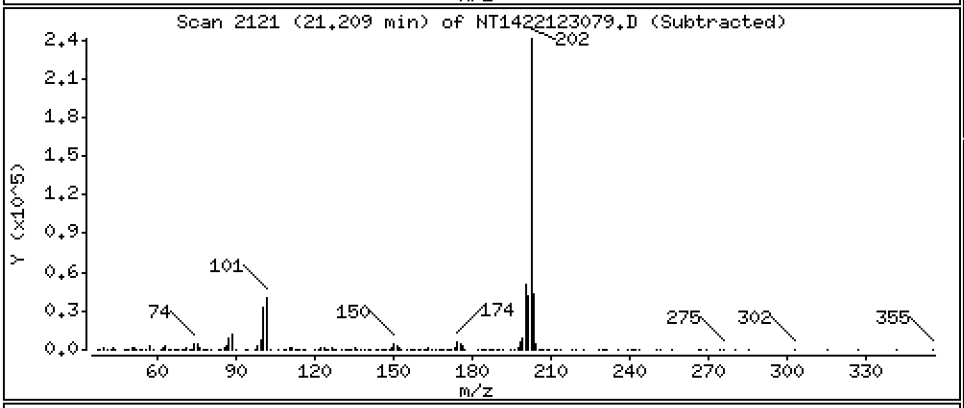
Column phase: ZB-5msi

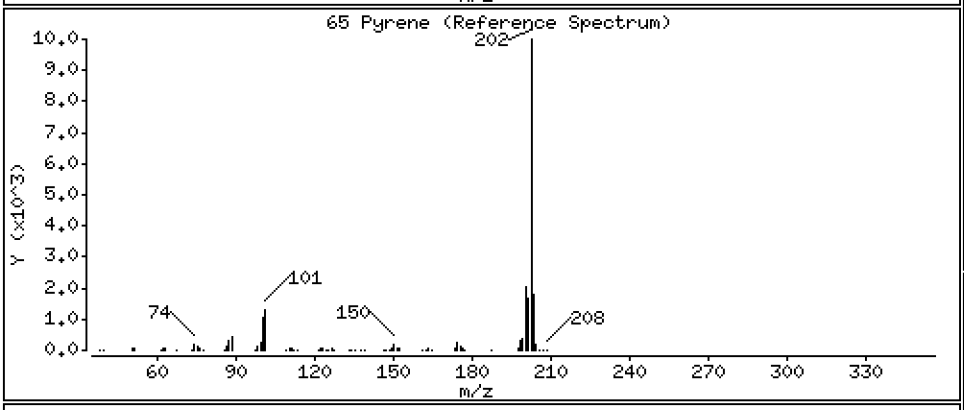
Column diameter: 0.25

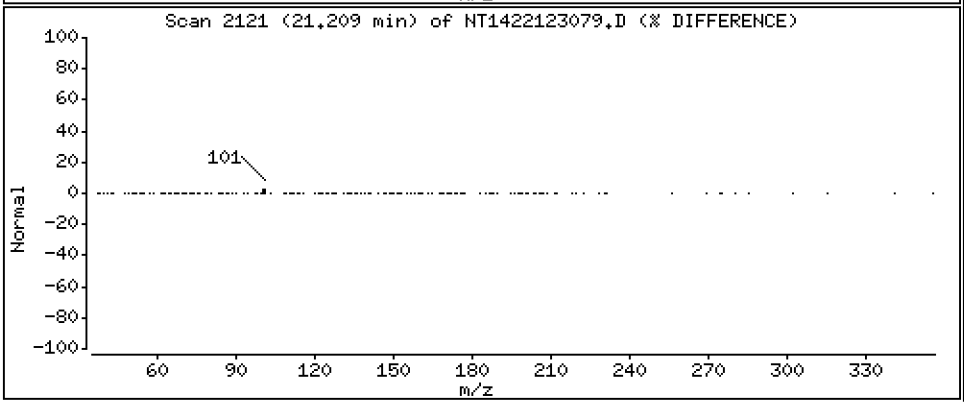
65 Pyrene

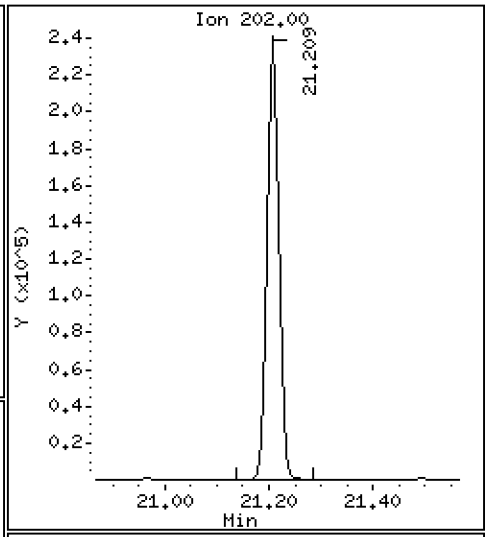
Concentration: 5.338 ug/mL

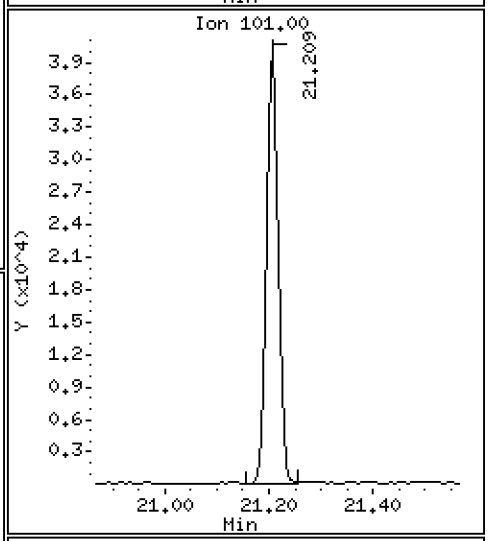


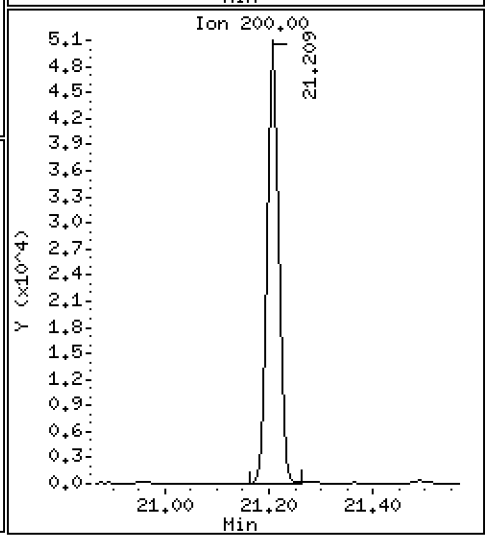












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

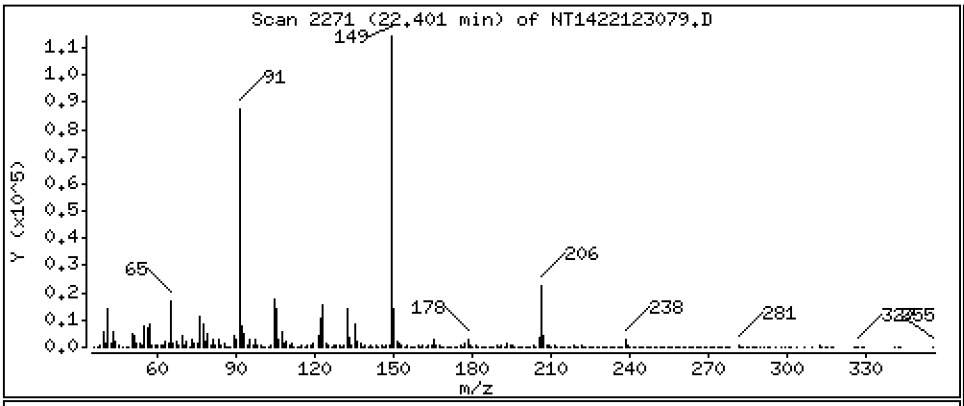
Operator: VTS

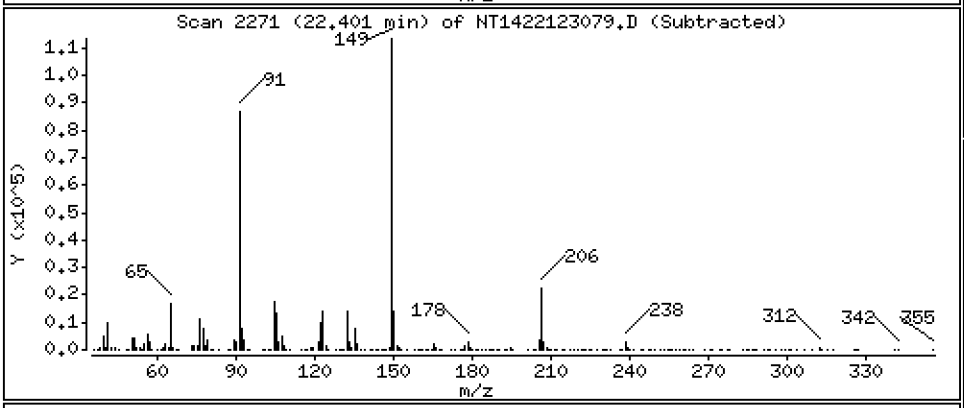
Column phase: ZB-5msi

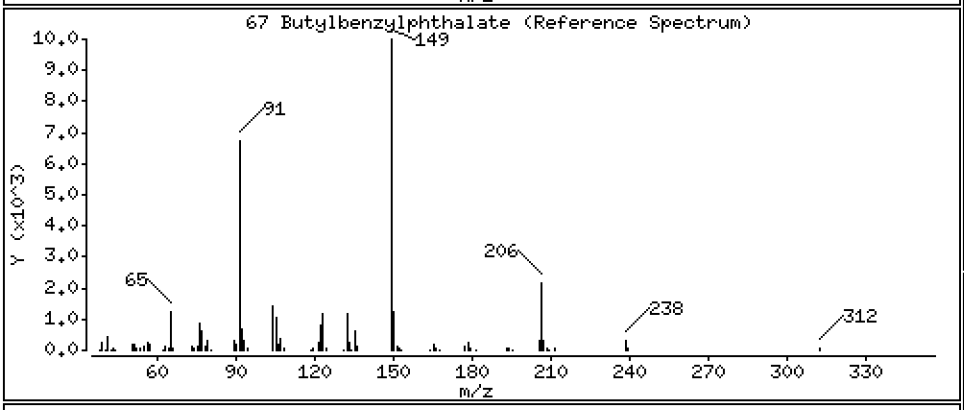
Column diameter: 0.25

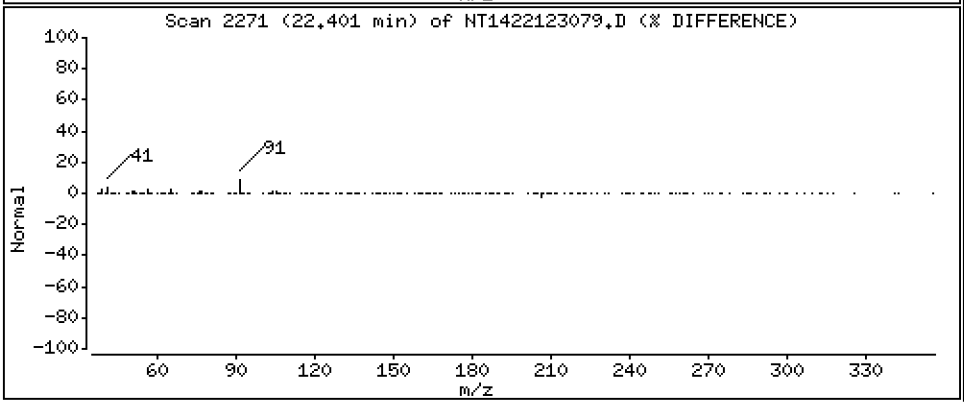
67 Butylbenzylphthalate

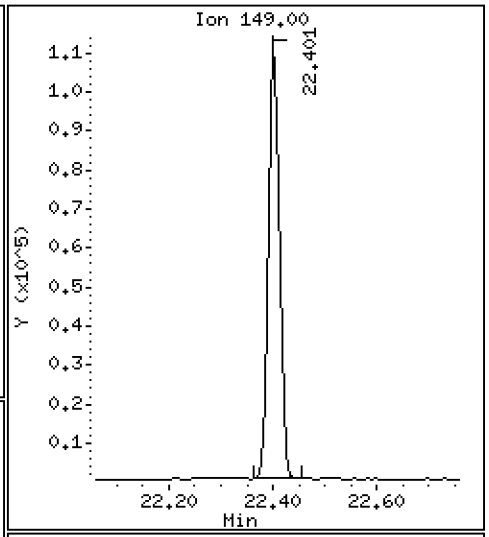
Concentration: 5.977 ug/mL

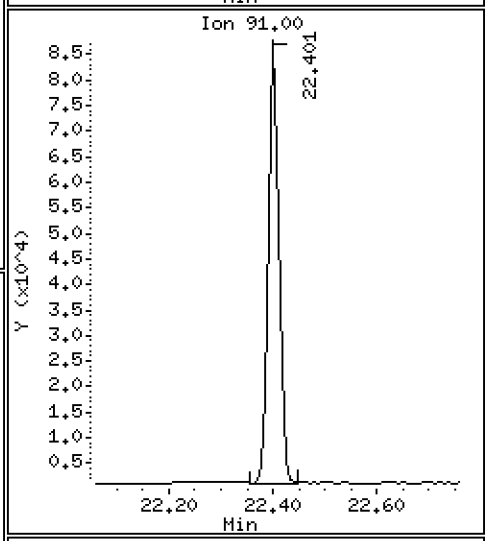


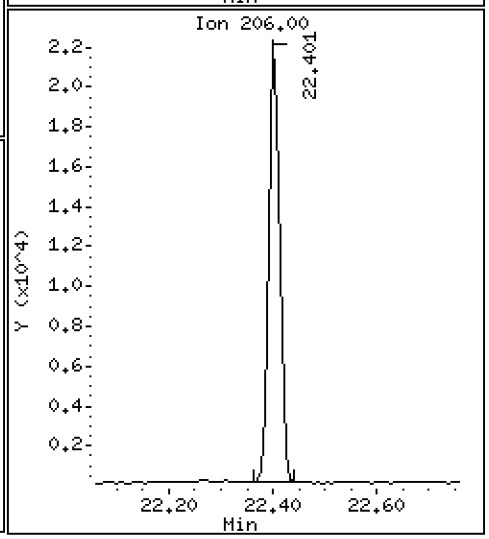












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

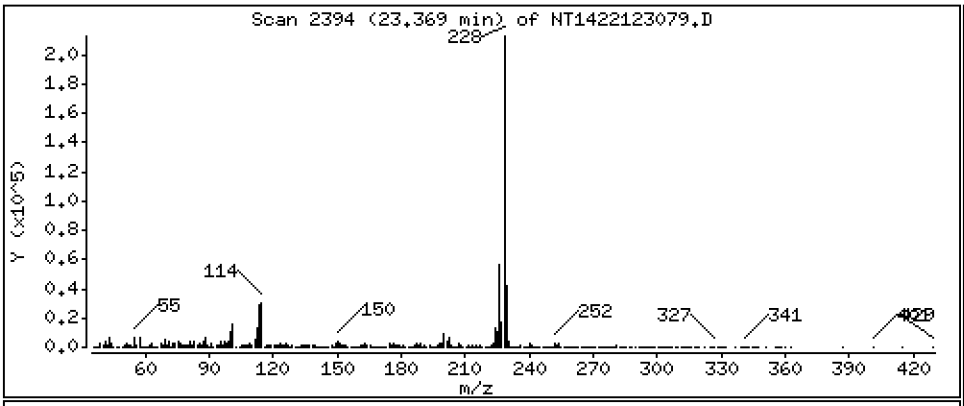
Operator: VTS

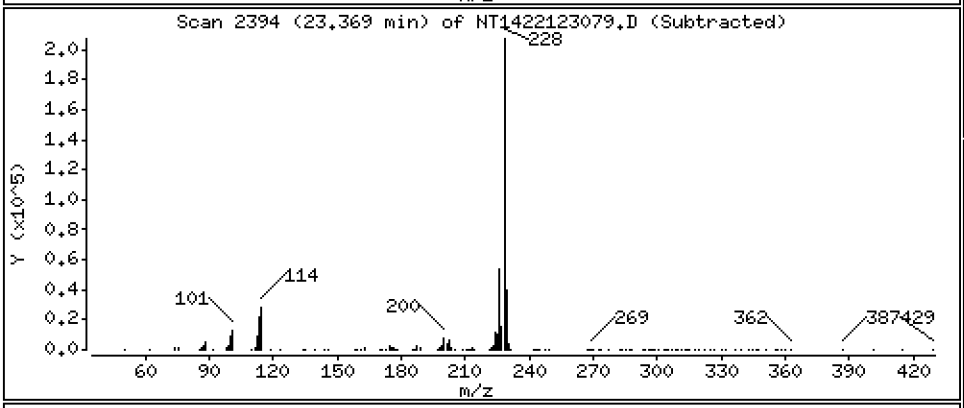
Column phase: ZB-5msi

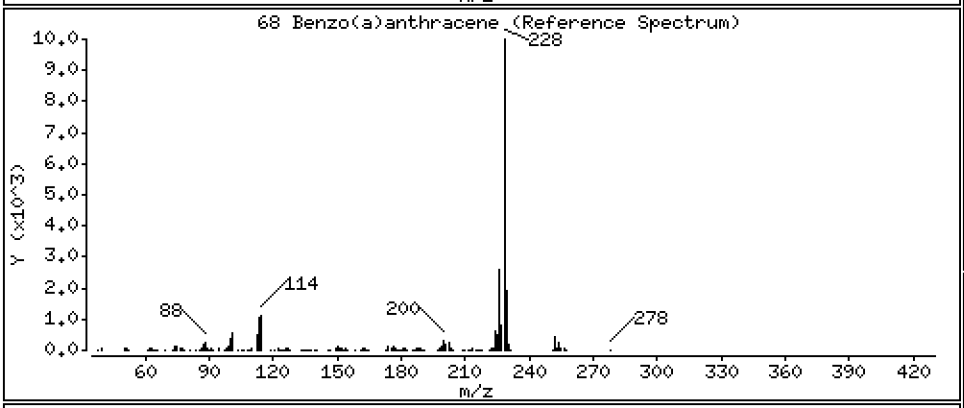
Column diameter: 0.25

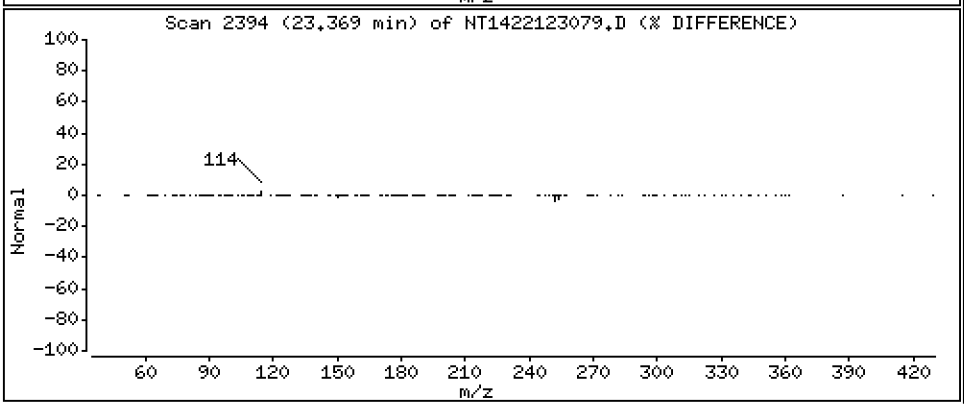
68 Benzo(a)anthracene

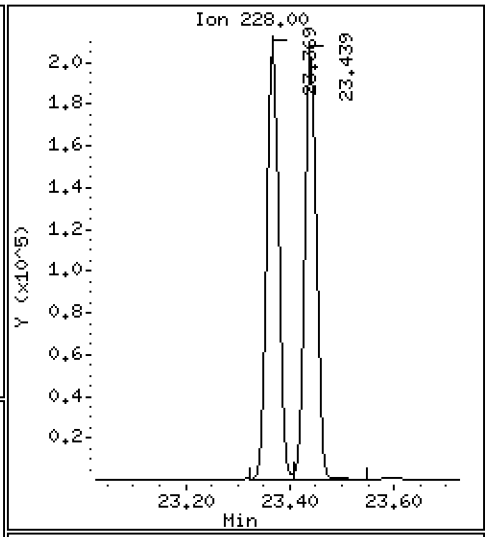
Concentration: 5.085 ug/mL

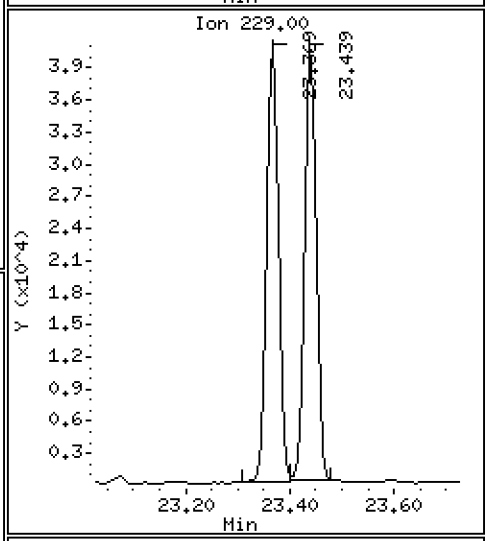


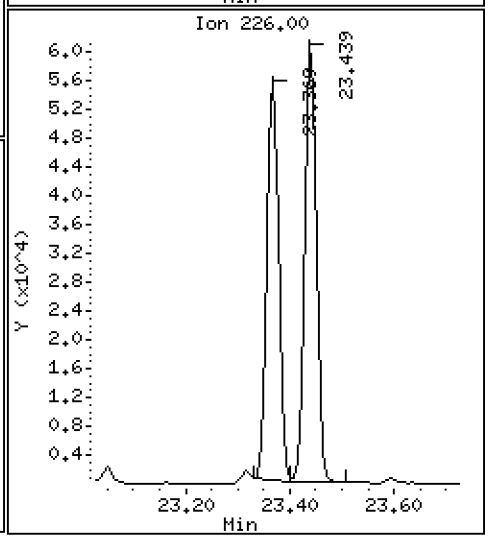












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

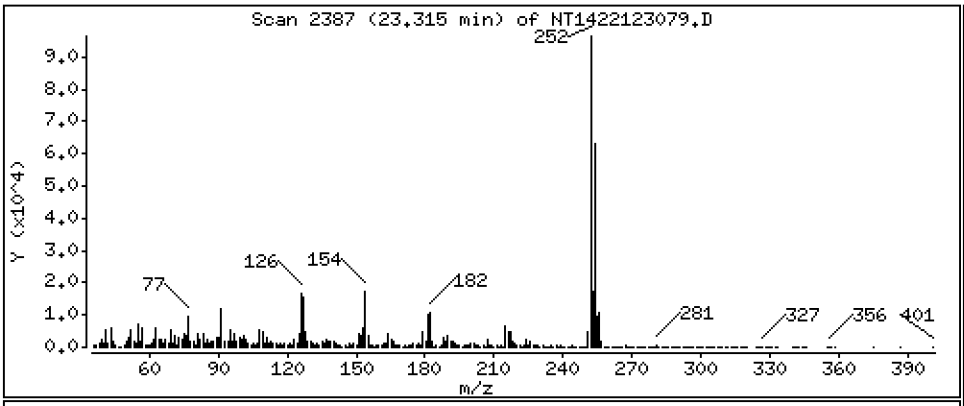
Operator: VTS

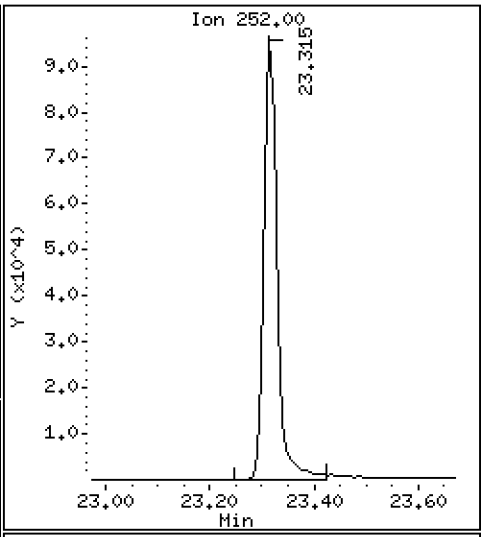
Column phase: ZB-5msi

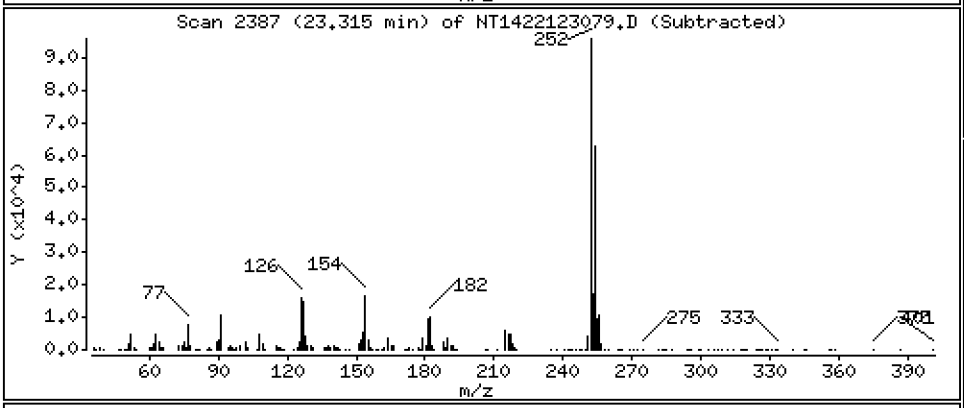
Column diameter: 0.25

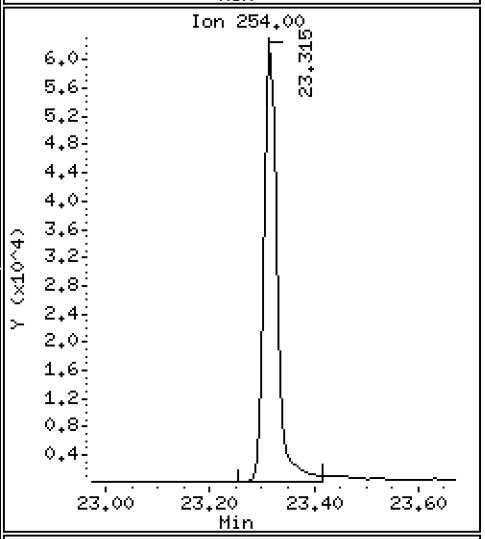
70 3,3'-Dichlorobenzidine

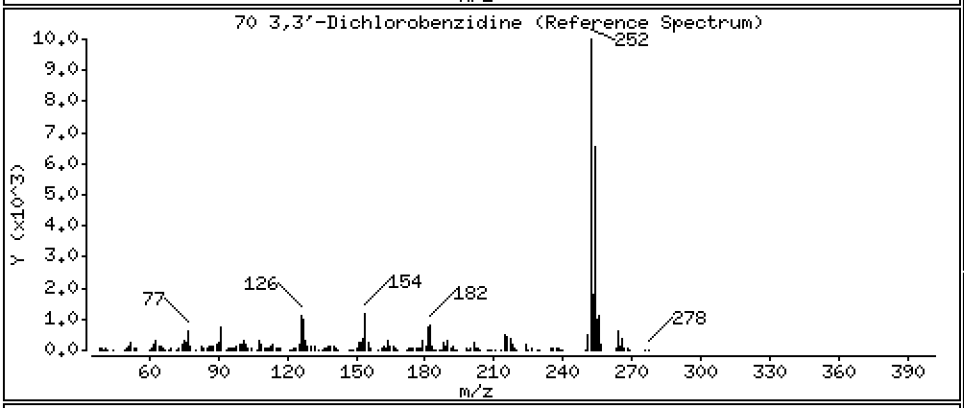
Concentration: 8.481 ug/mL

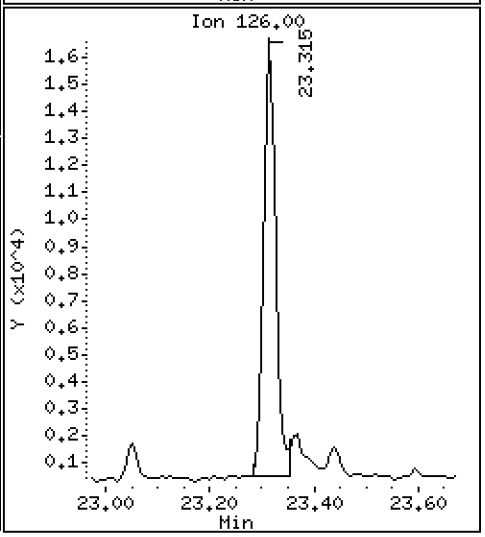


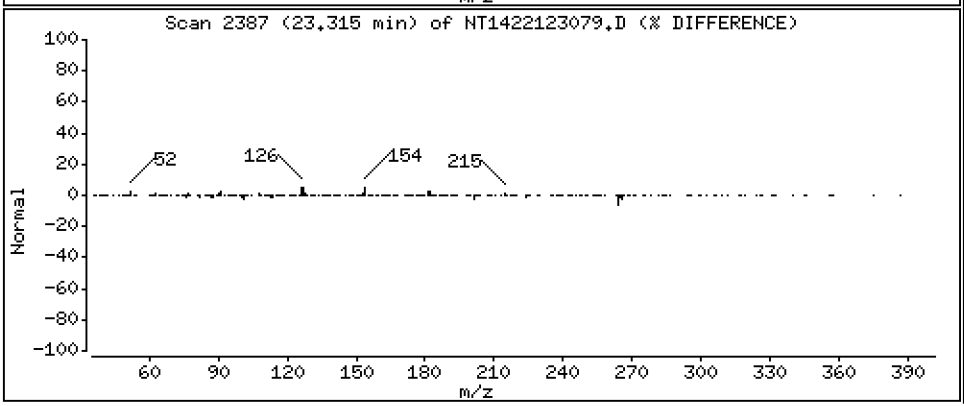












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

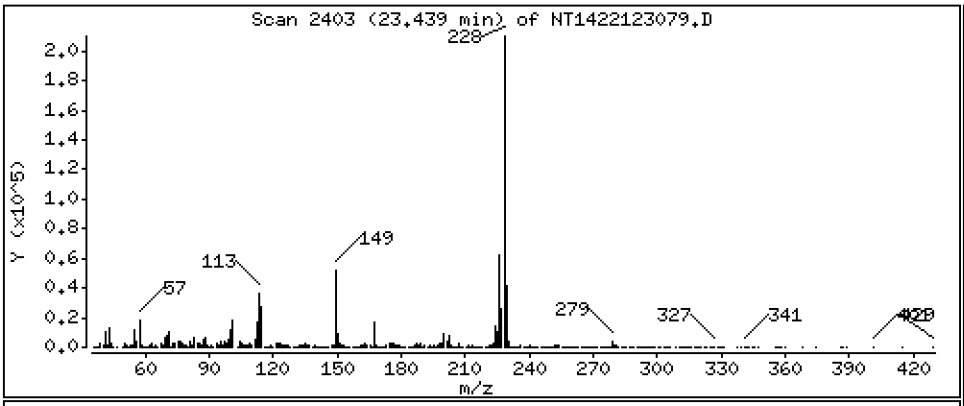
Operator: VTS

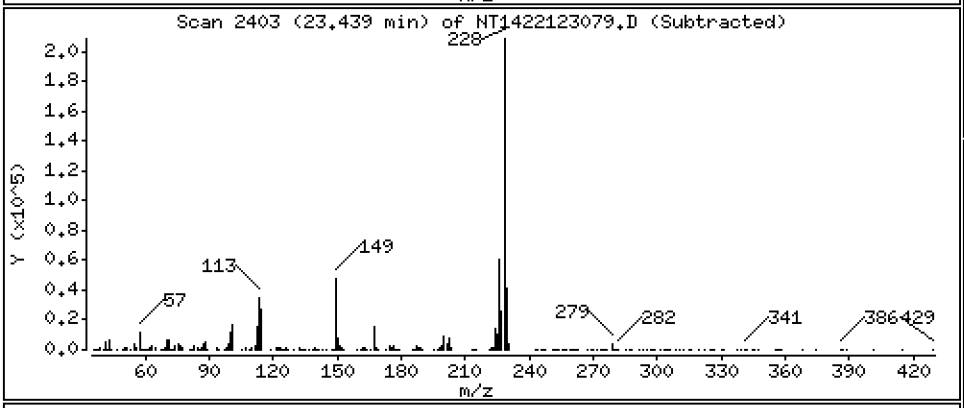
Column phase: ZB-5msi

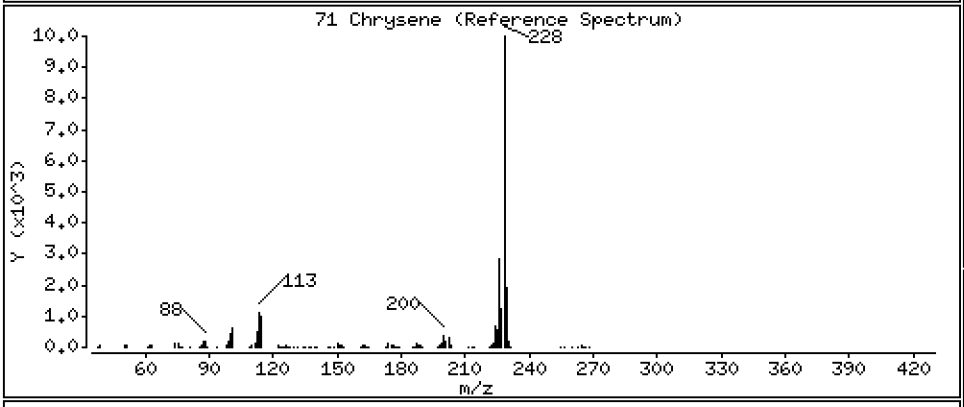
Column diameter: 0.25

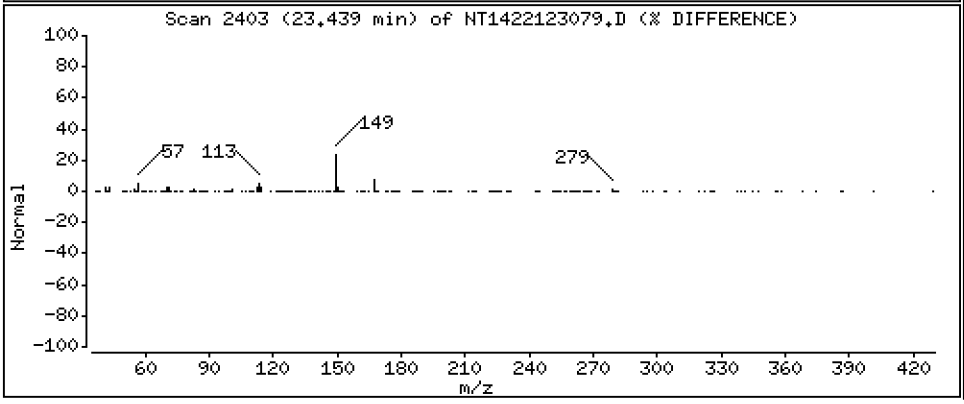
71 Chrysene

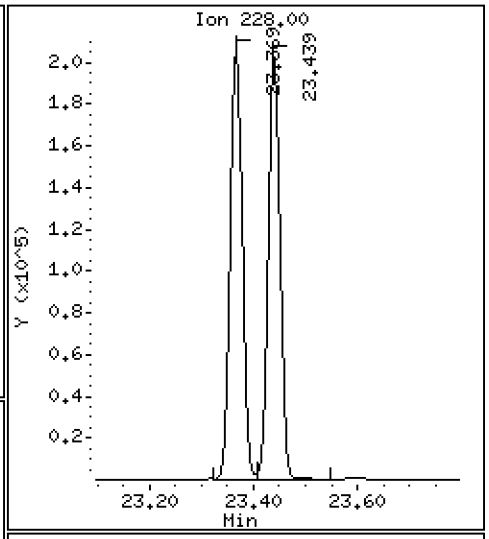
Concentration: 5.320 ug/mL

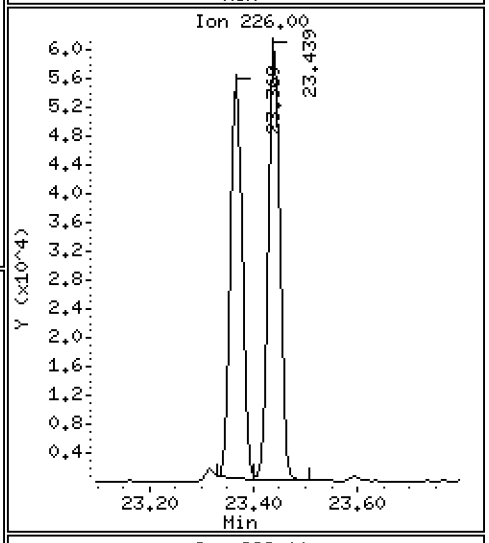


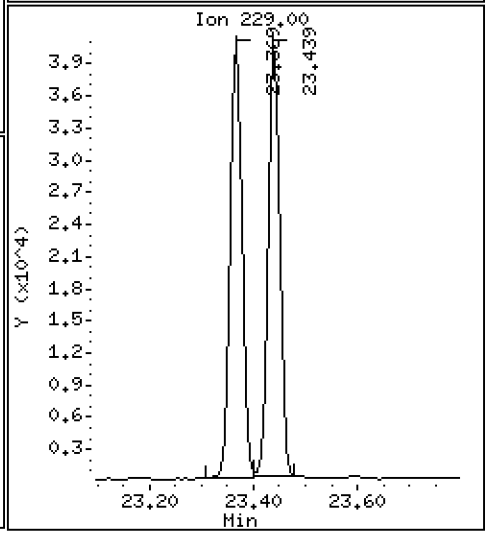












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

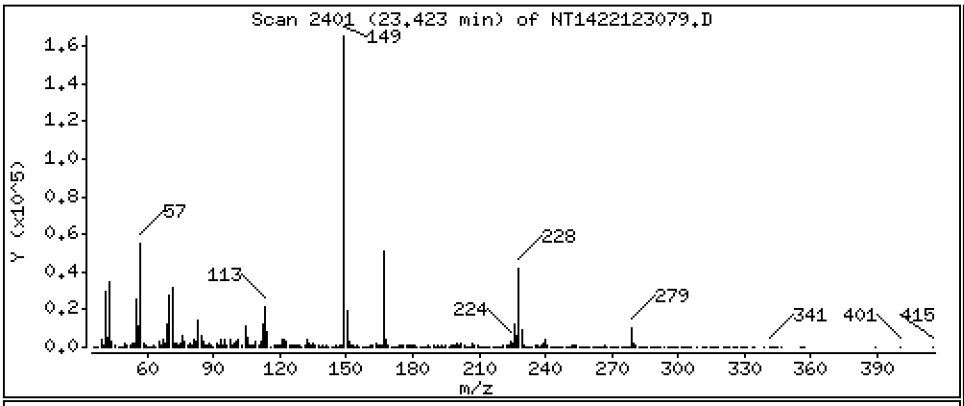
Operator: VTS

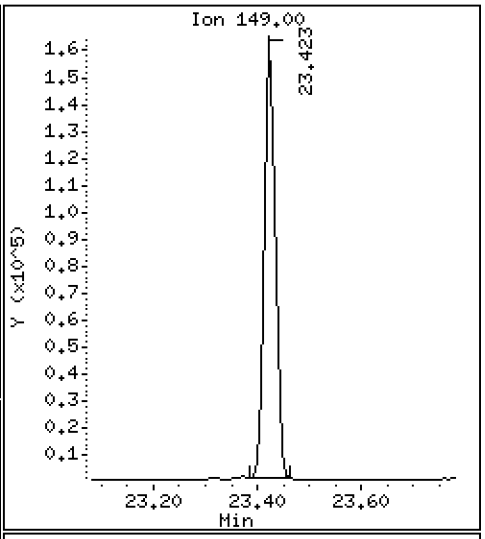
Column phase: ZB-5msi

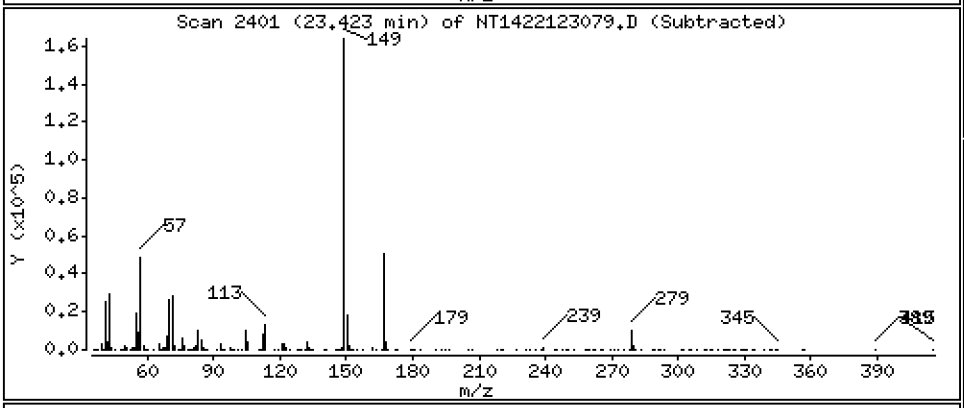
Column diameter: 0.25

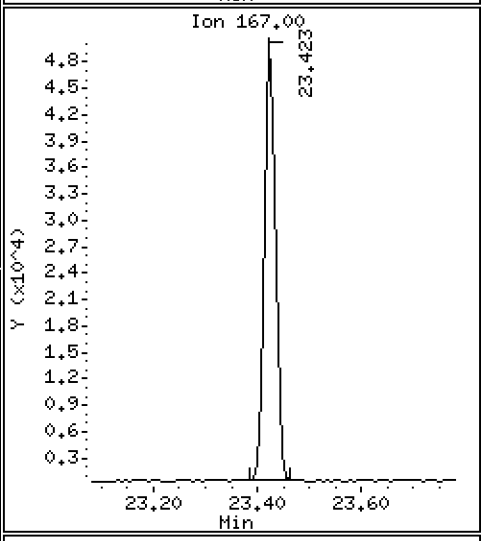
72 bis(2-Ethylhexyl)phthalate

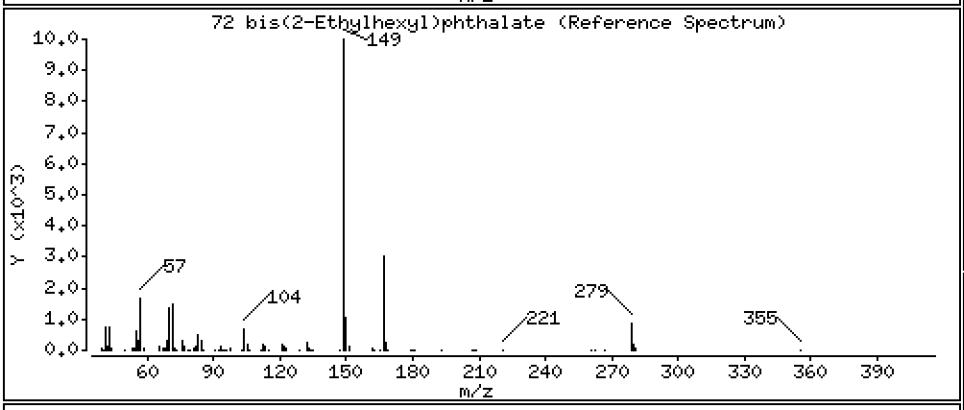
Concentration: 5.678 ug/mL

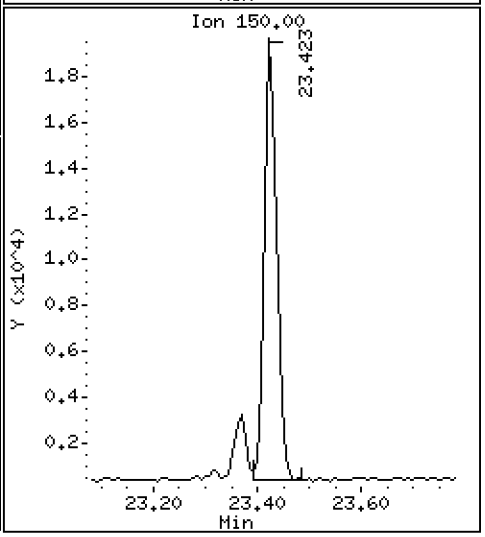


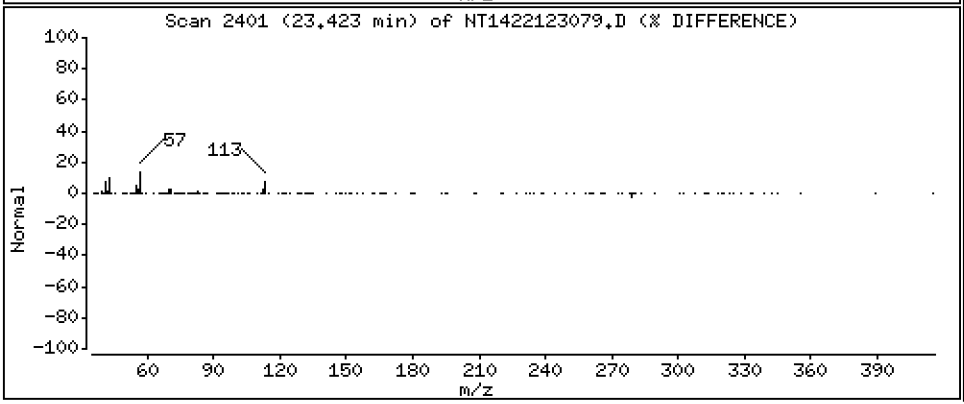












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

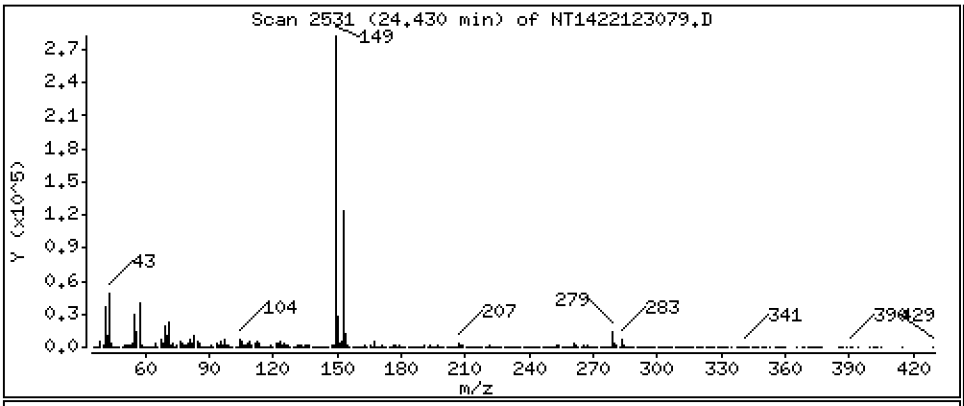
Operator: VTS

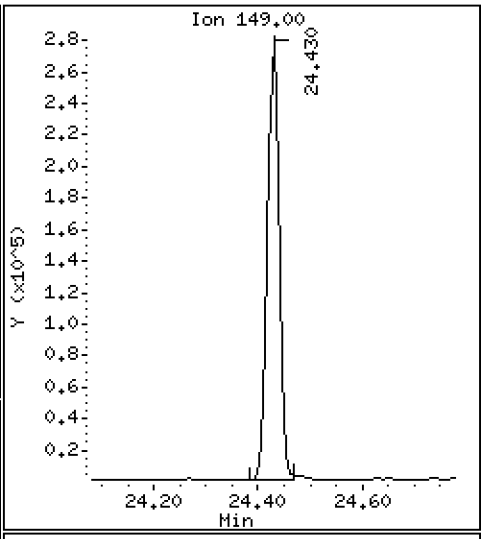
Column phase: ZB-5msi

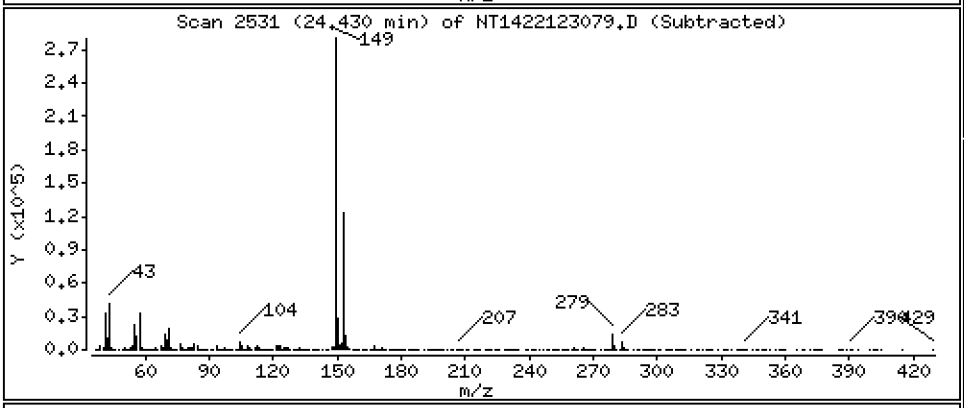
Column diameter: 0.25

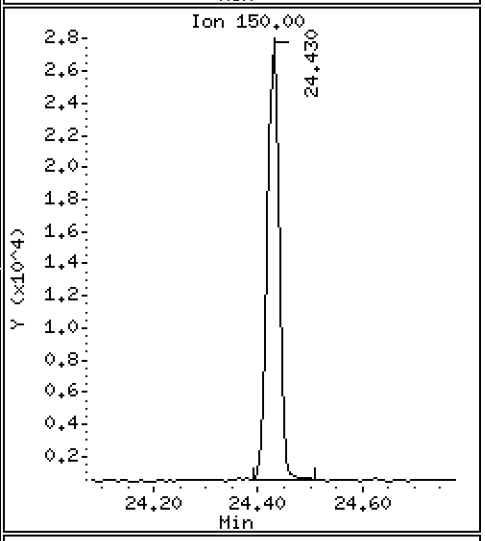
73 Di-n-octylphthalate

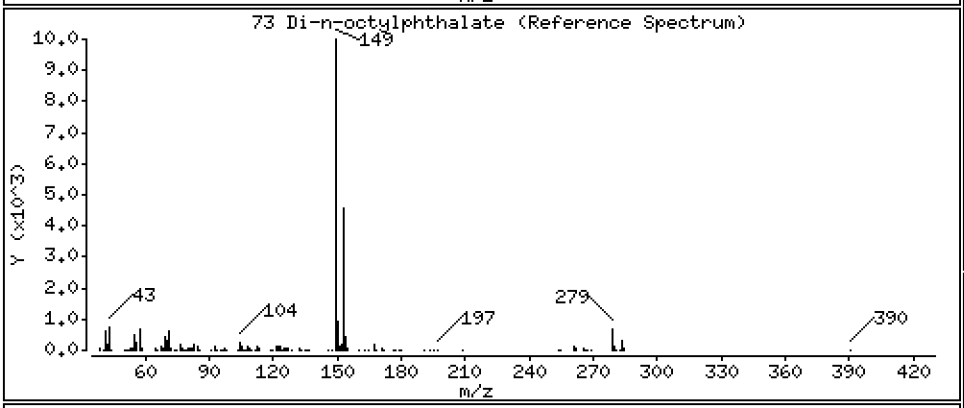
Concentration: 4.653 ug/mL

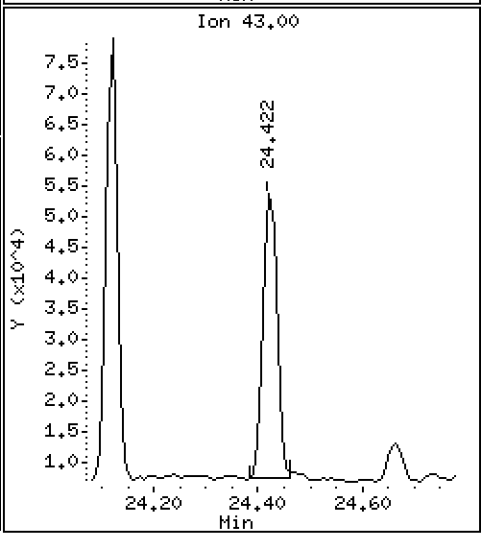


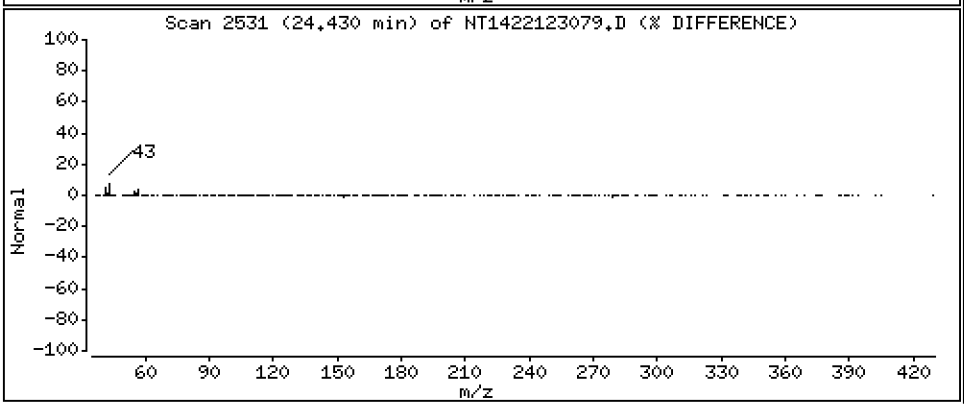












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

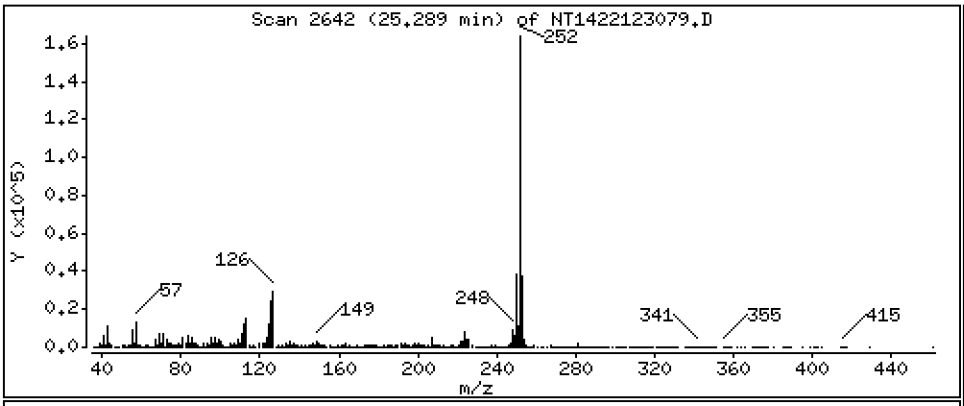
Operator: VTS

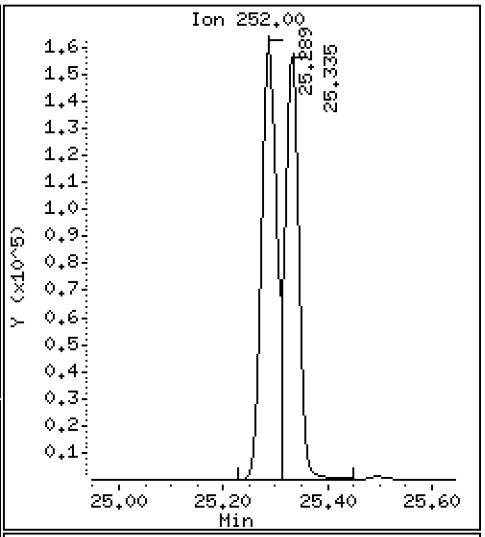
Column phase: ZB-5msi

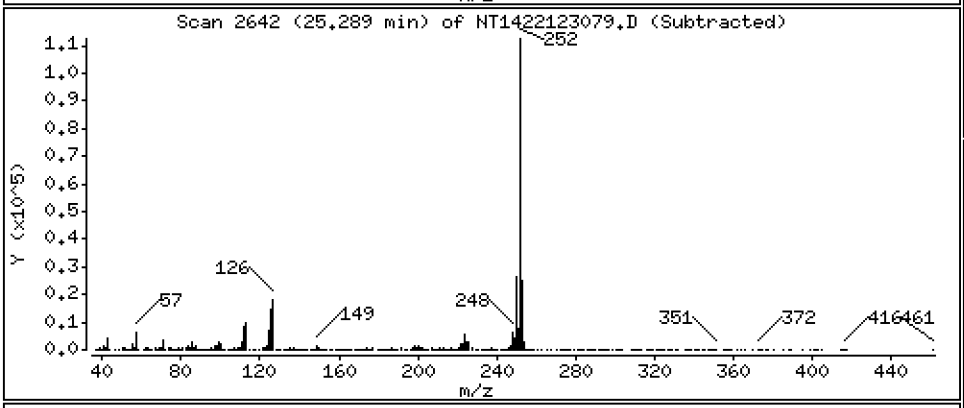
Column diameter: 0.25

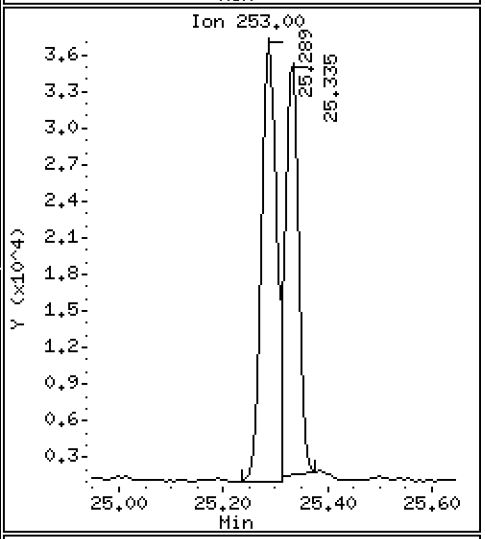
74 Benzo(b)fluoranthene

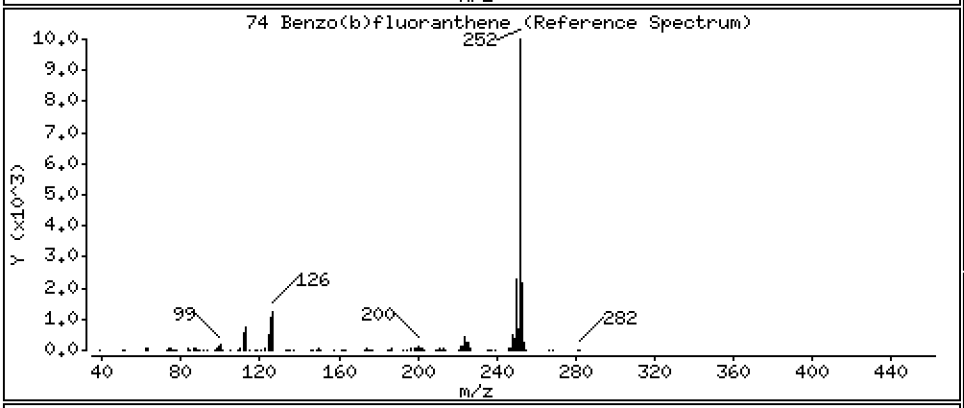
Concentration: 5.725 ug/mL

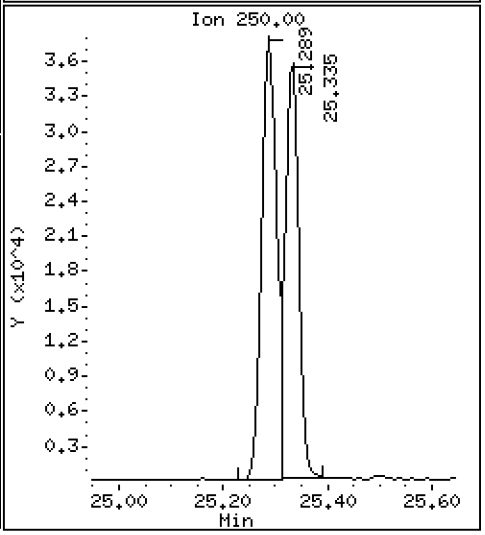


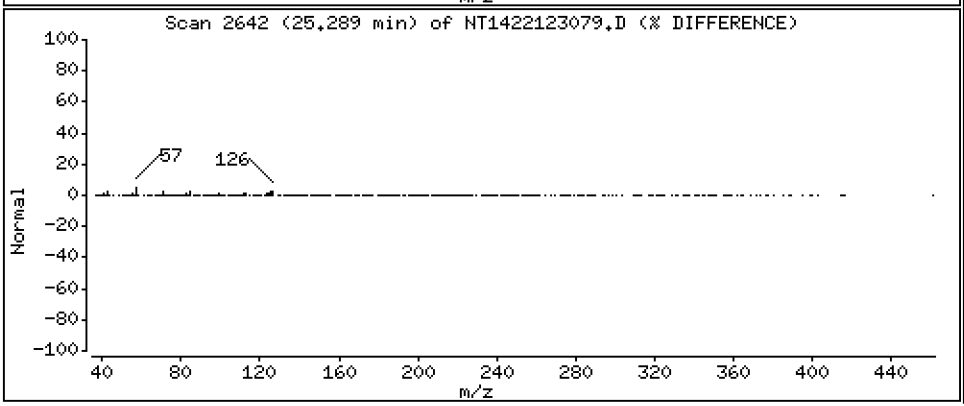












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

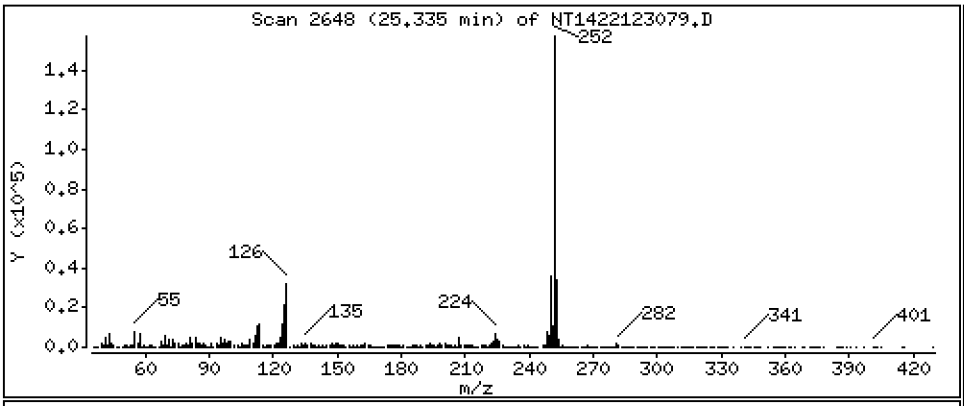
Operator: VTS

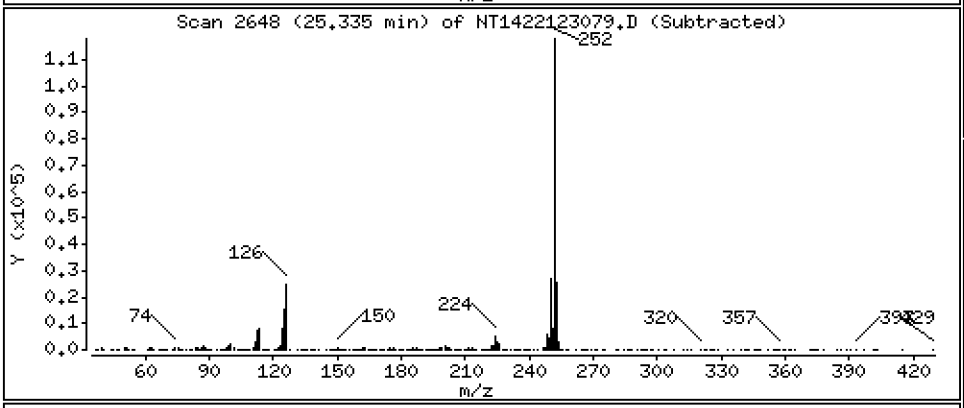
Column phase: ZB-5msi

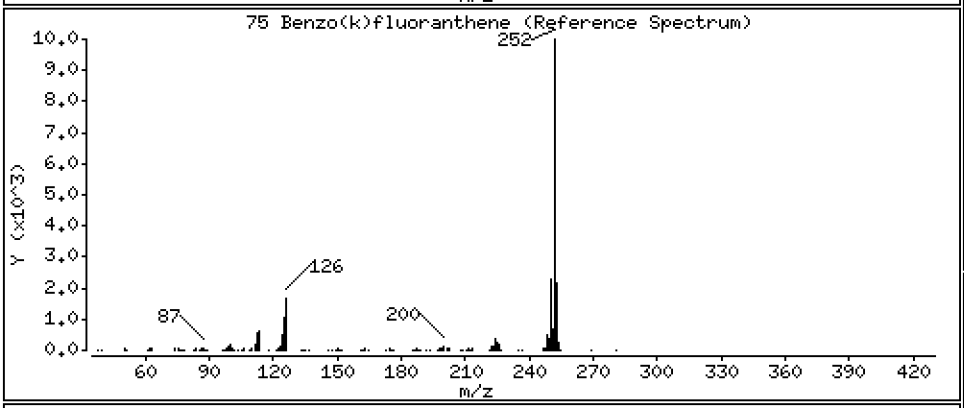
Column diameter: 0.25

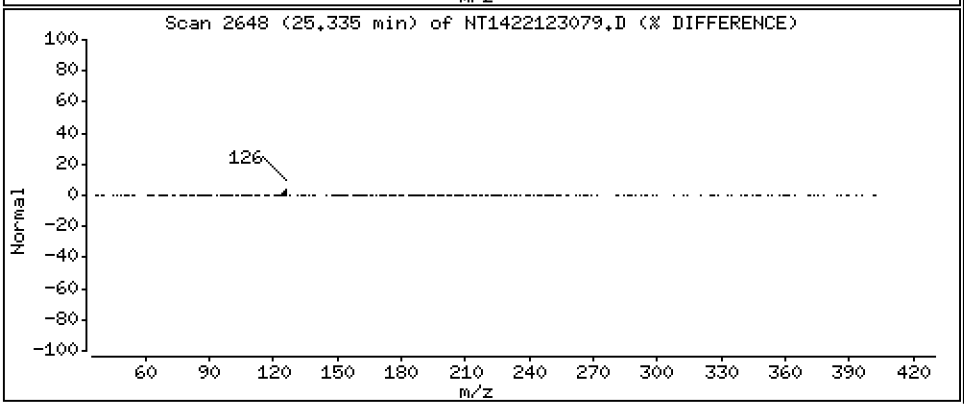
75 Benzo(k)fluoranthene

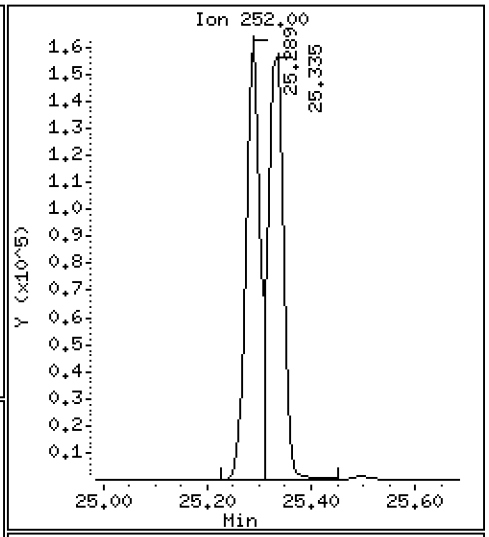
Concentration: 5.321 ug/mL

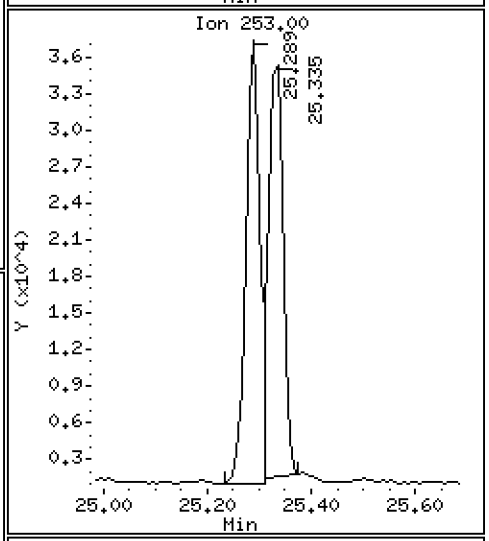


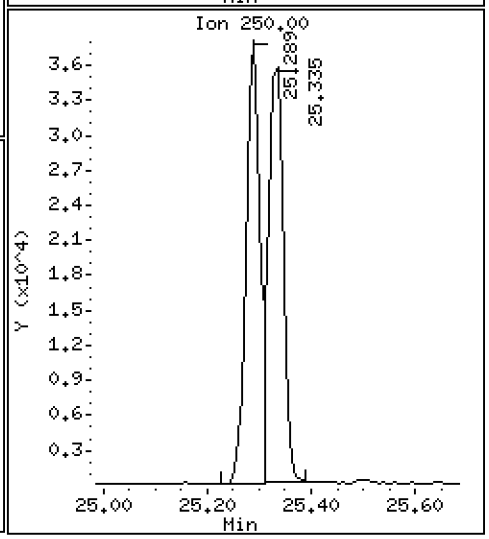












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

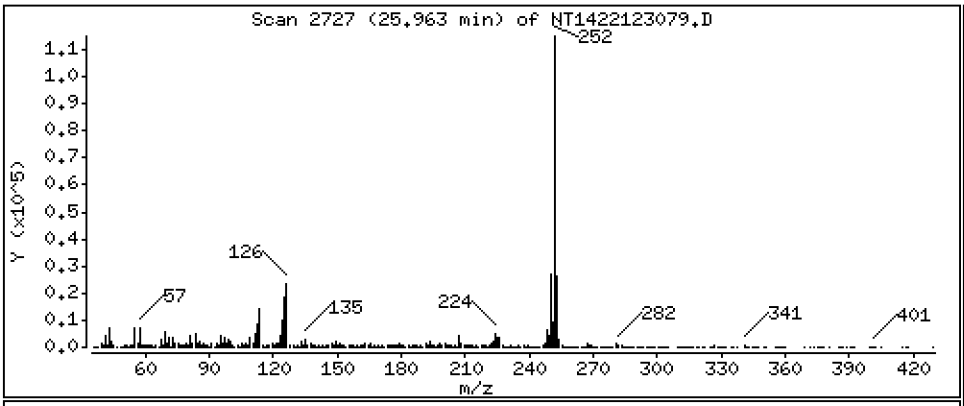
Operator: VTS

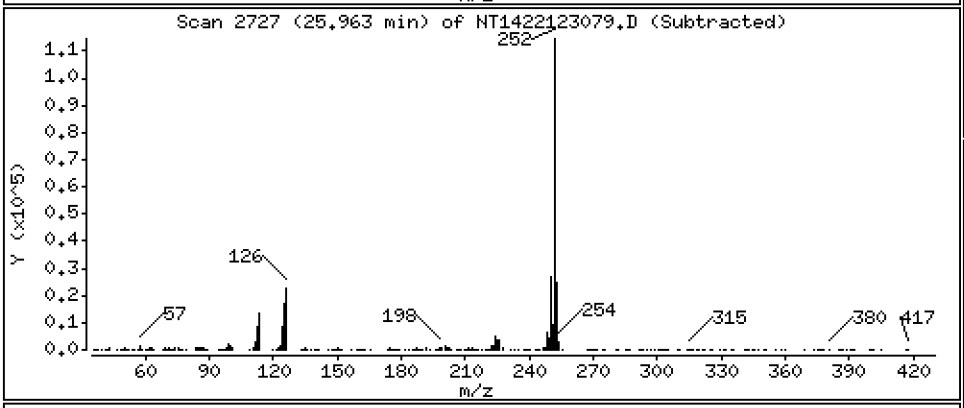
Column phase: ZB-5msi

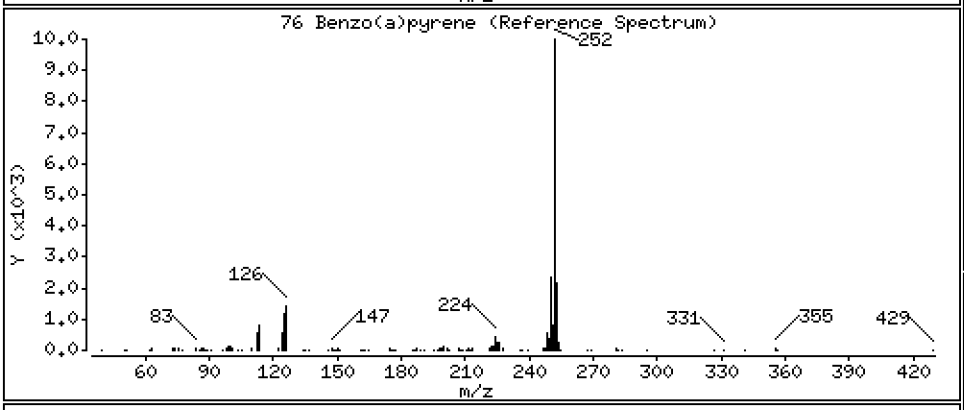
Column diameter: 0.25

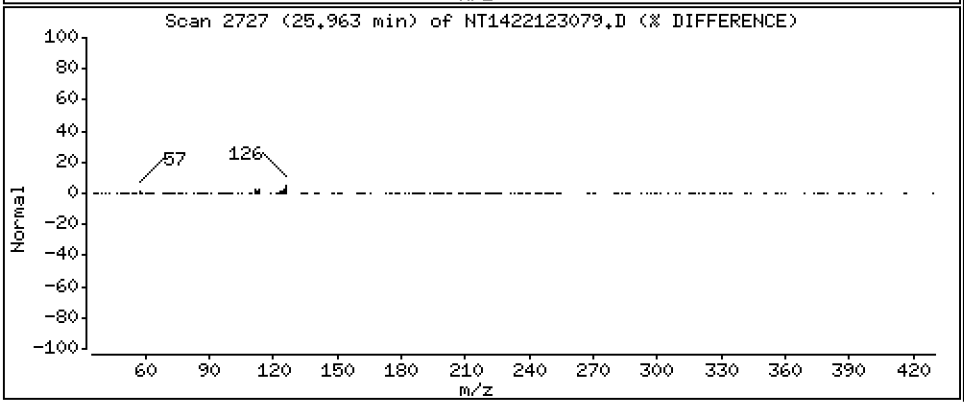
76 Benzo(a)pyrene

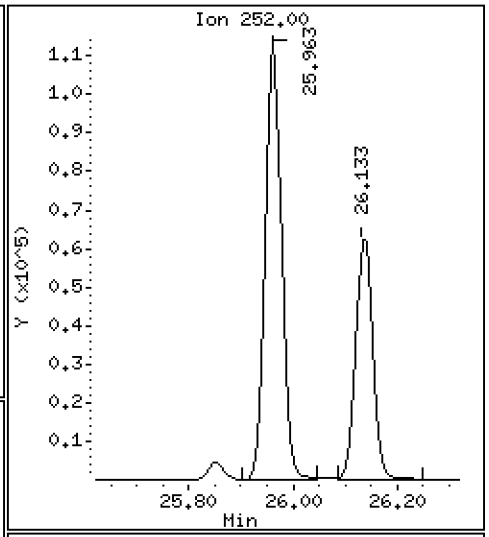
Concentration: 5.103 ug/mL

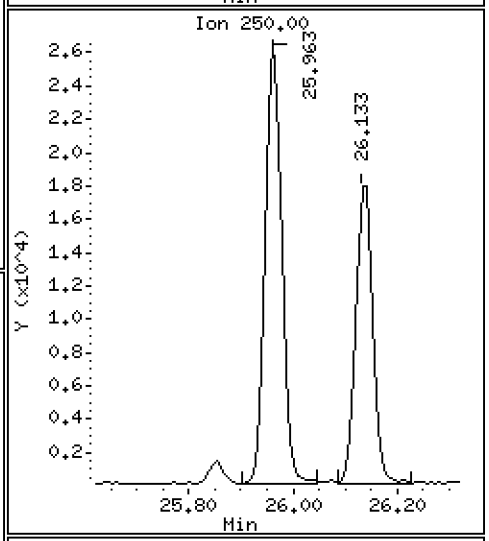


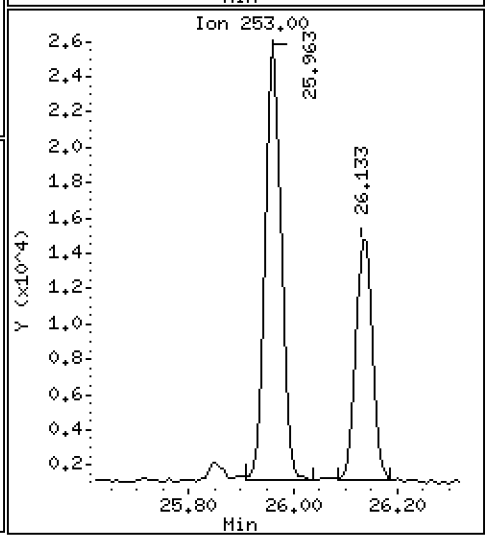












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

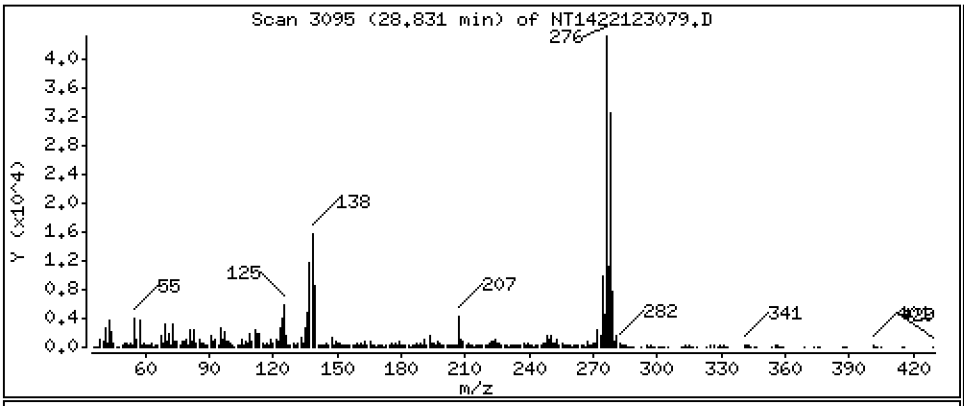
Operator: VTS

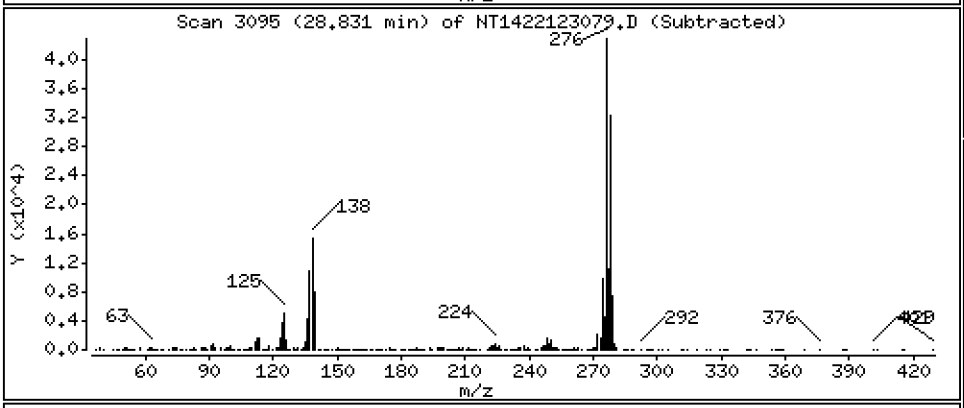
Column phase: ZB-5msi

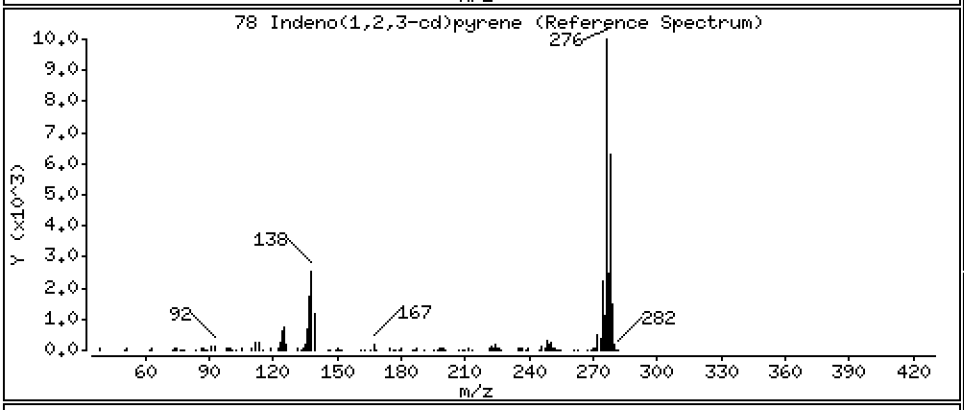
Column diameter: 0.25

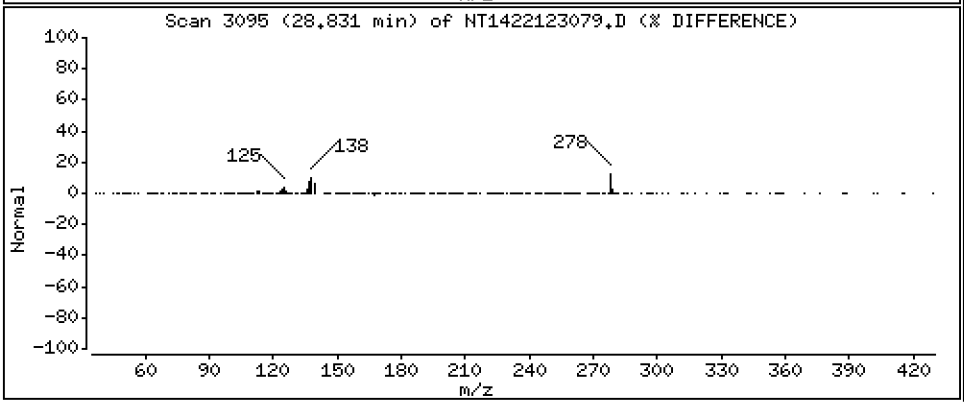
78 Indeno(1,2,3-cd)pyrene

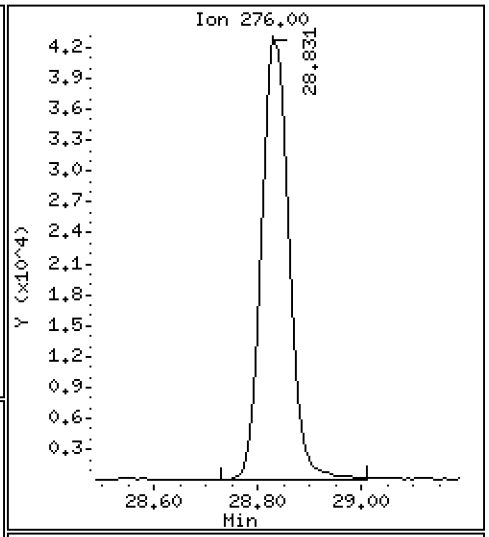
Concentration: 2.919 ug/mL

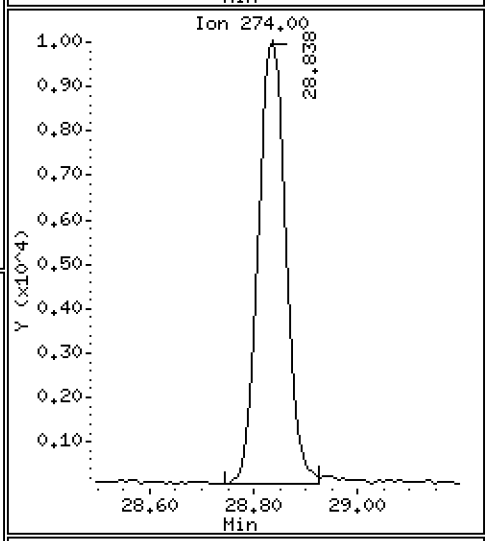


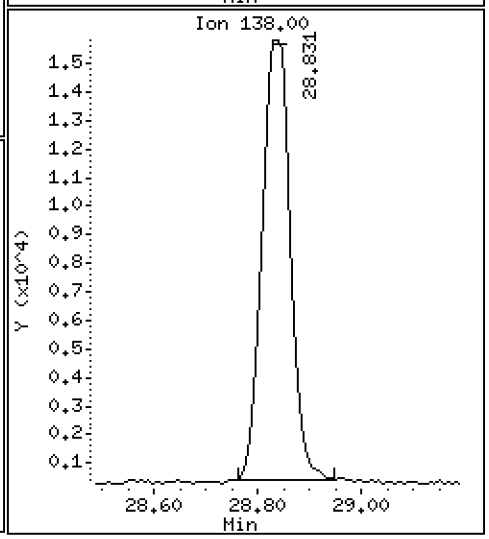












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

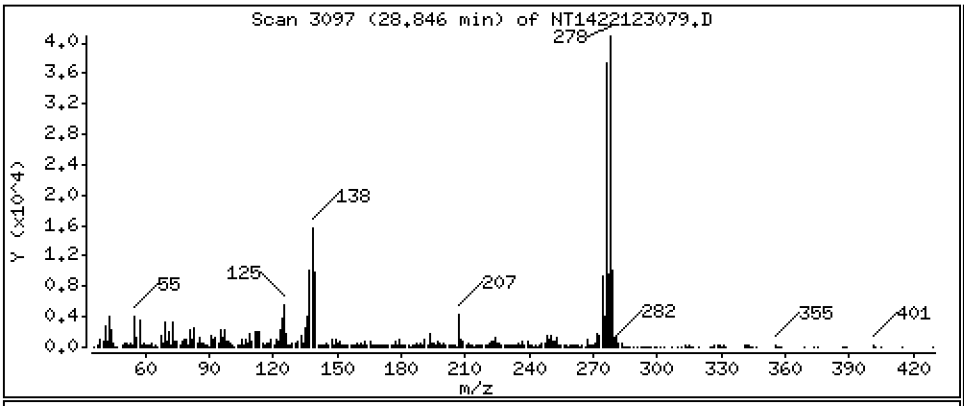
Operator: VTS

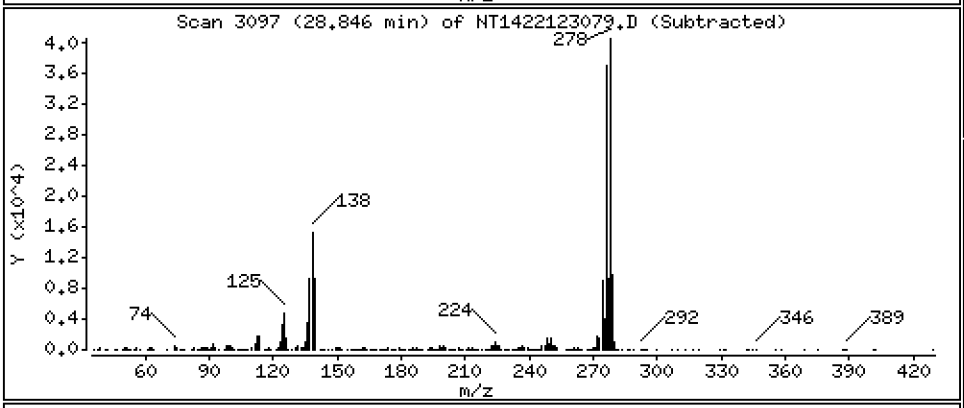
Column phase: ZB-5msi

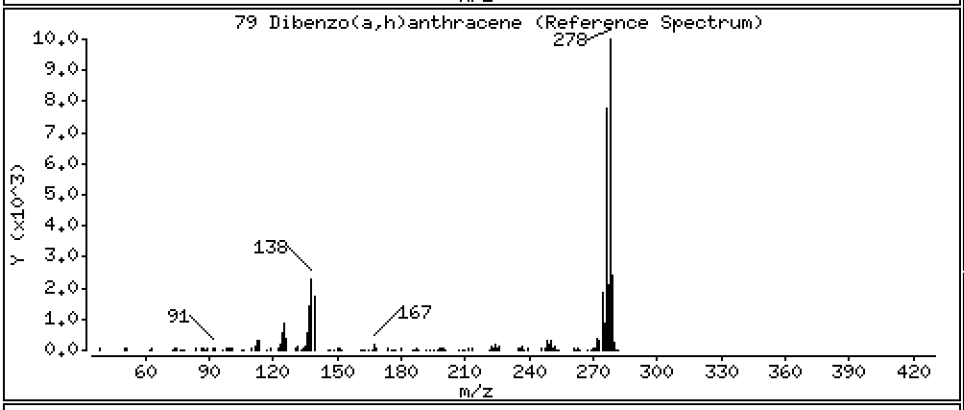
Column diameter: 0.25

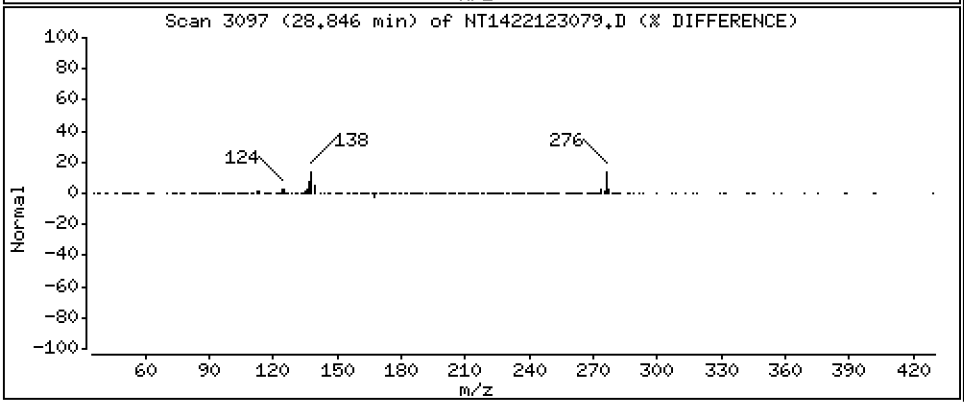
79 Dibenzo(a,h)anthracene

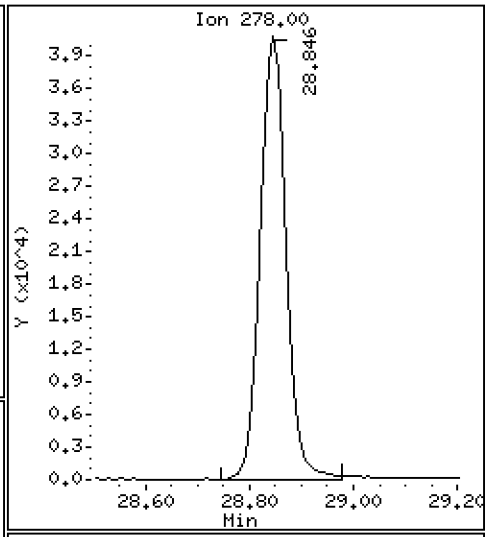
Concentration: 3.055 ug/mL

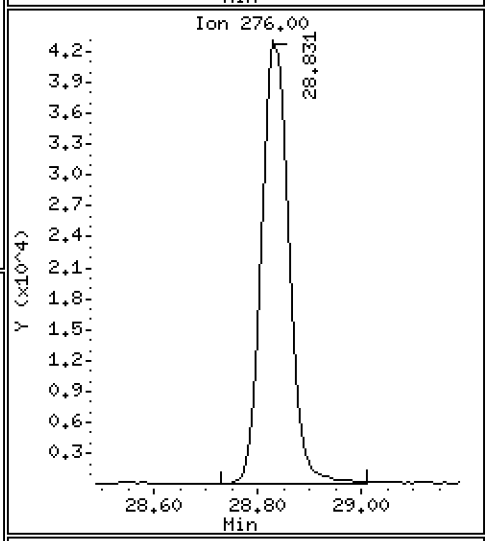


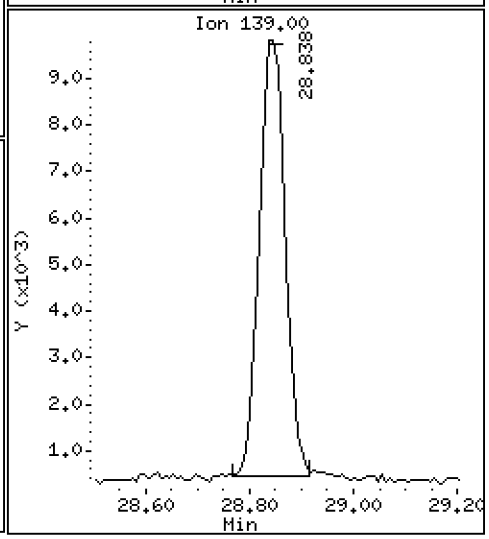












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123079.D

Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

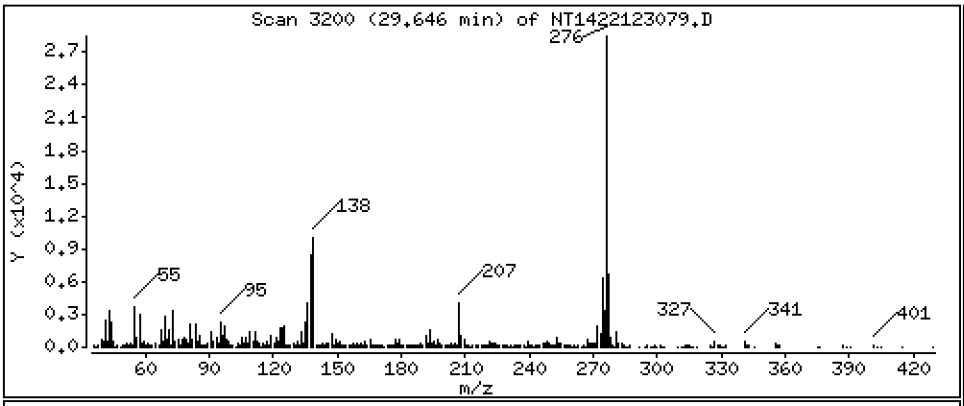
Operator: VTS

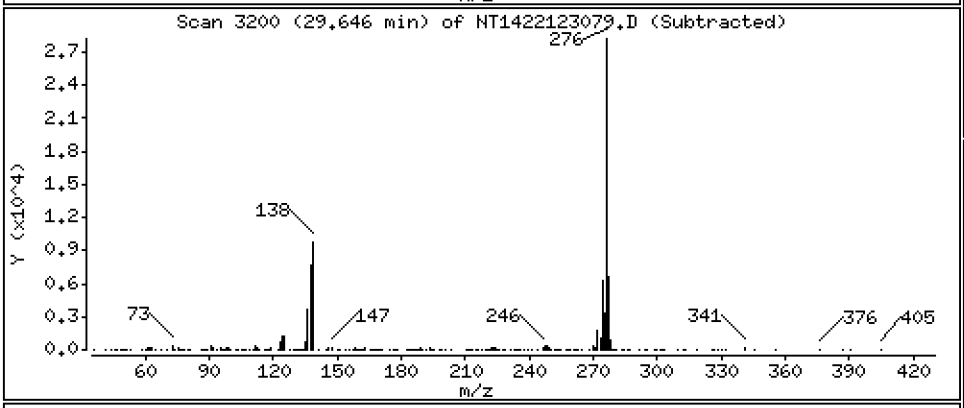
Column phase: ZB-5msi

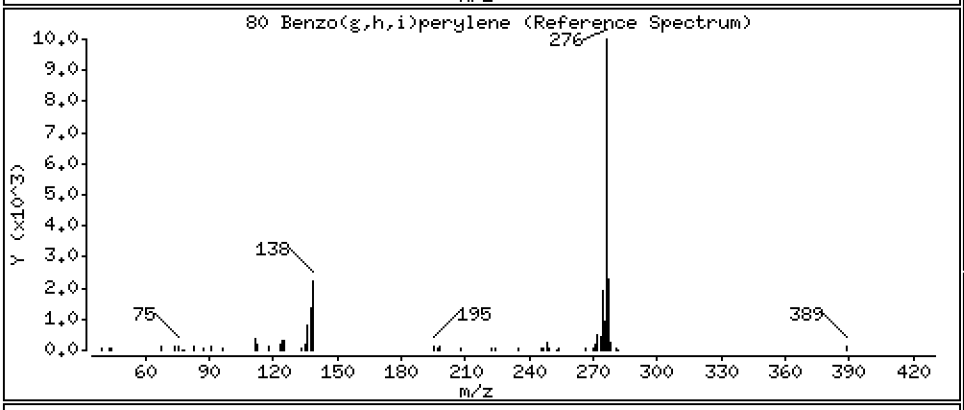
Column diameter: 0.25

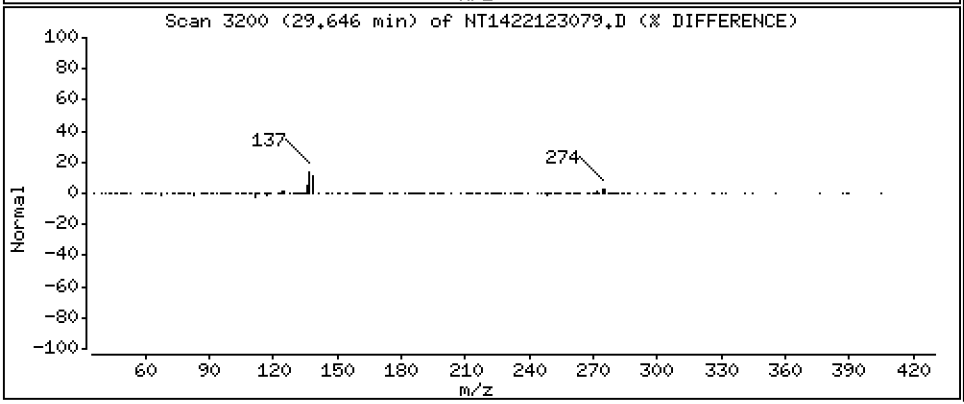
80 Benzo(g,h,i)perylene

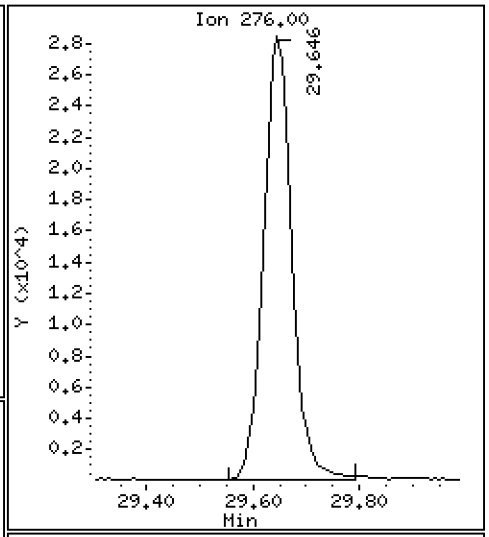
Concentration: 2.331 ug/mL

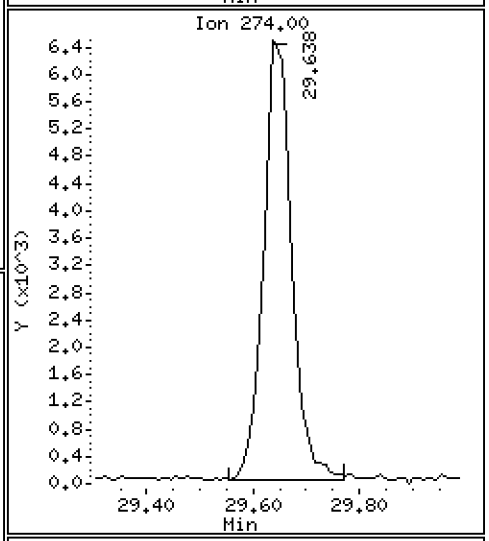


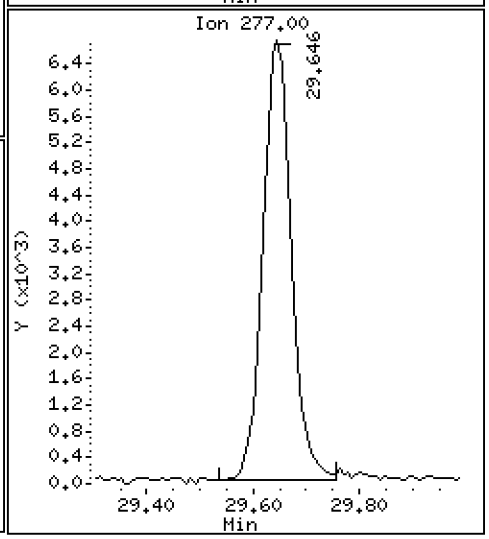












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

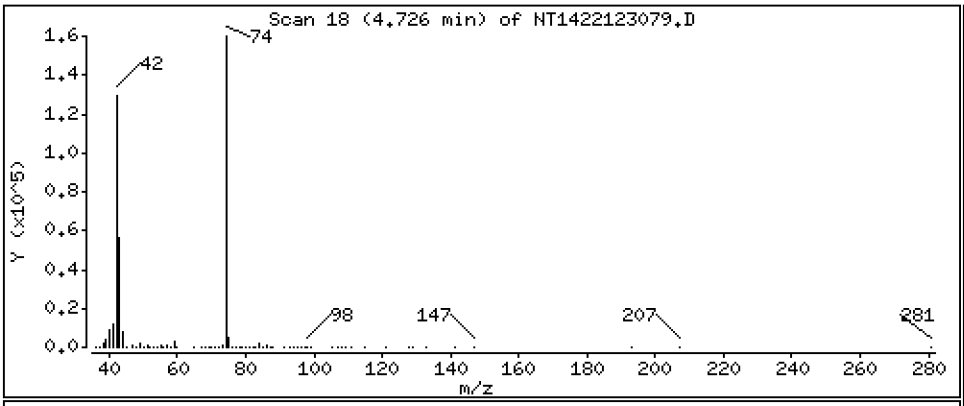
Operator: VTS

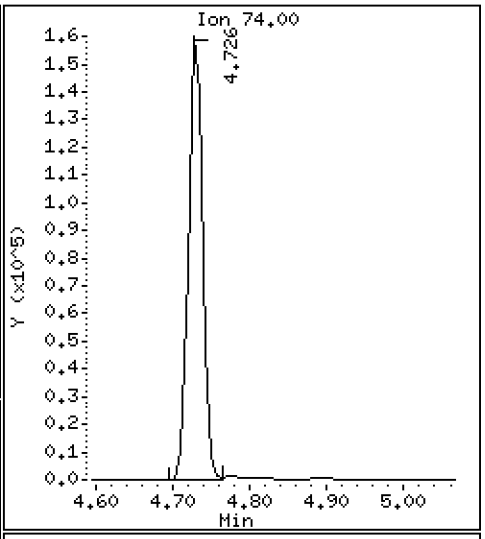
Column phase: ZB-5msi

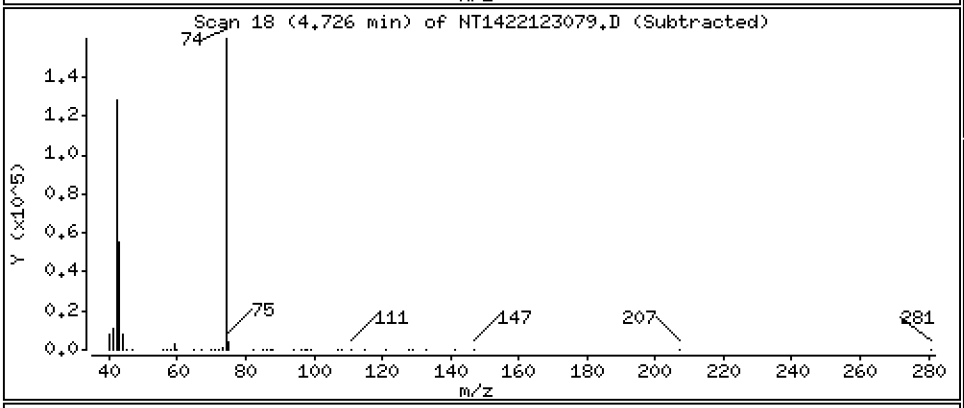
Column diameter: 0.25

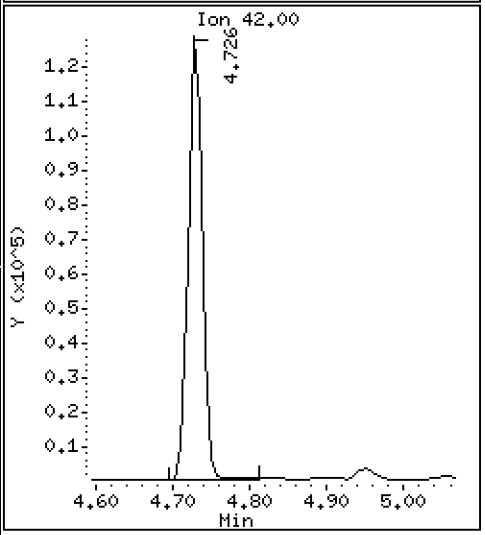
90 N-Nitrosodimethylamine

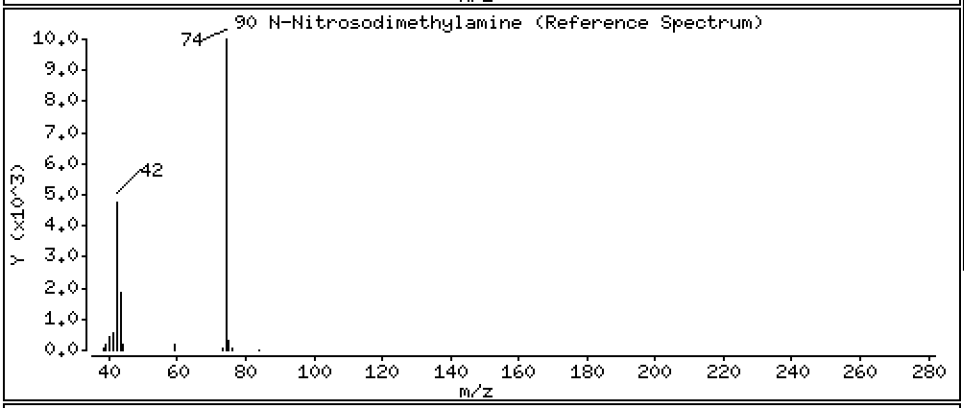
Concentration: 11.21 ug/mL

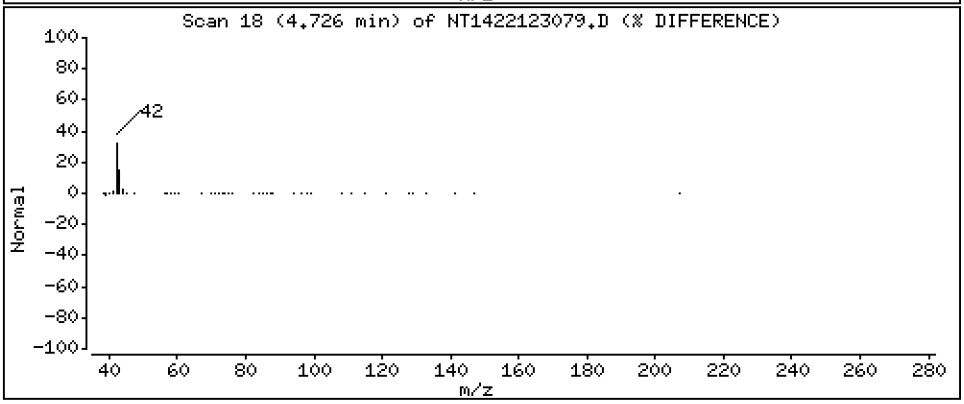












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123079.D

Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

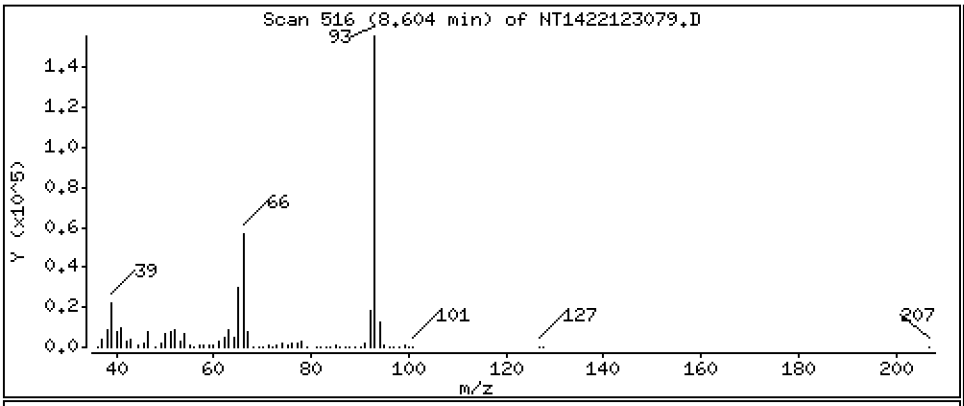
Operator: VTS

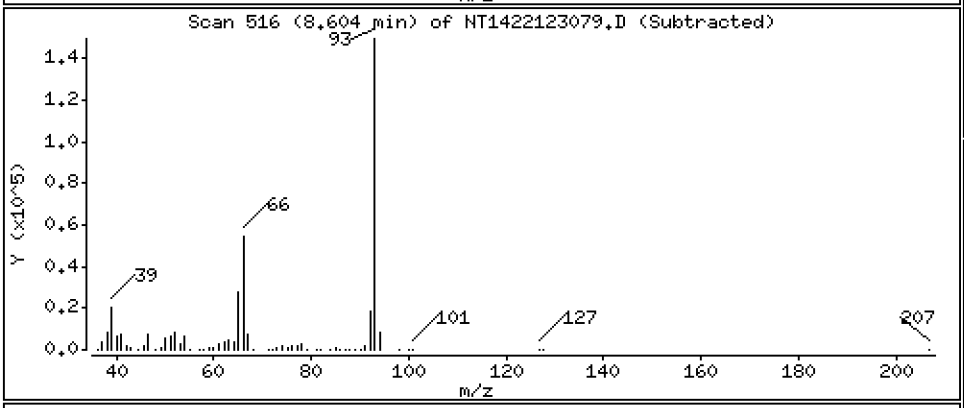
Column phase: ZB-5msi

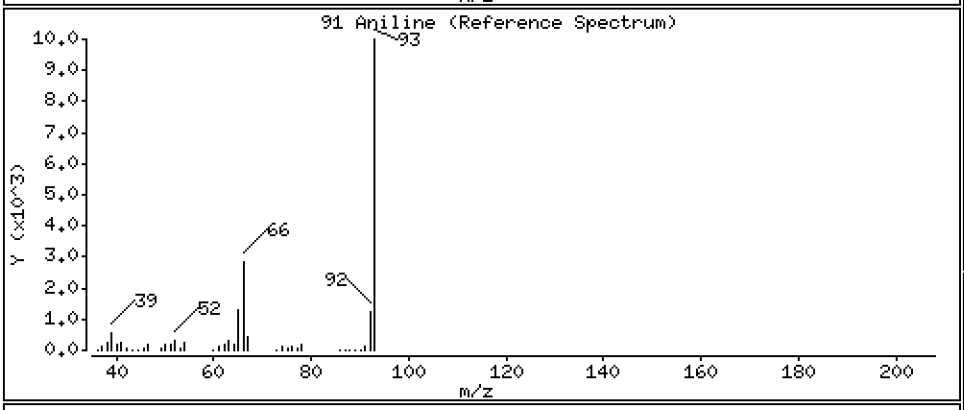
Column diameter: 0.25

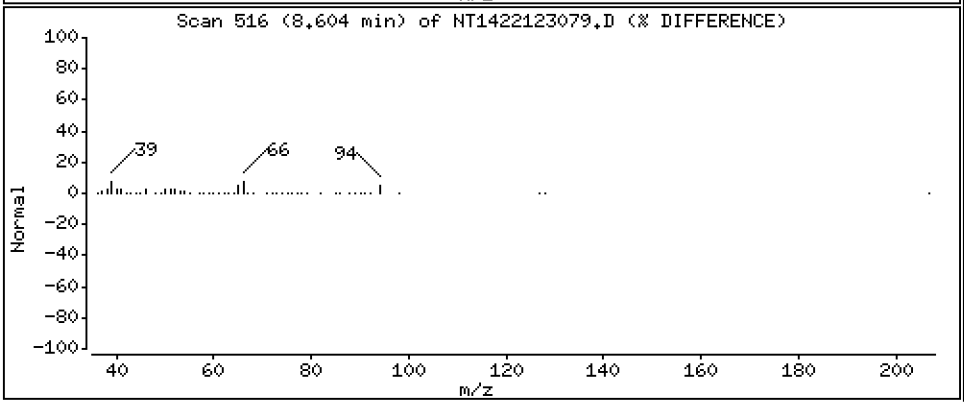
91 Aniline

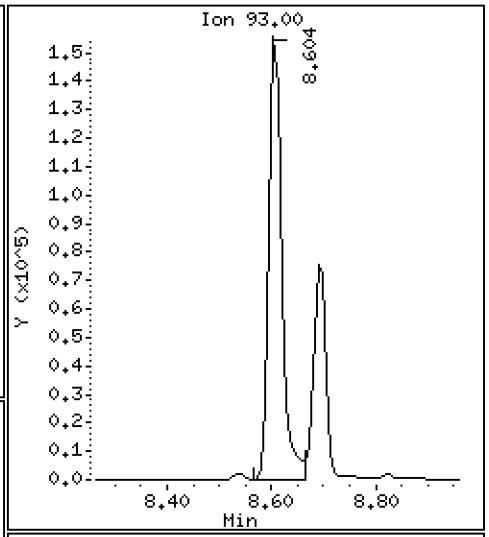
Concentration: 7.005 ug/mL

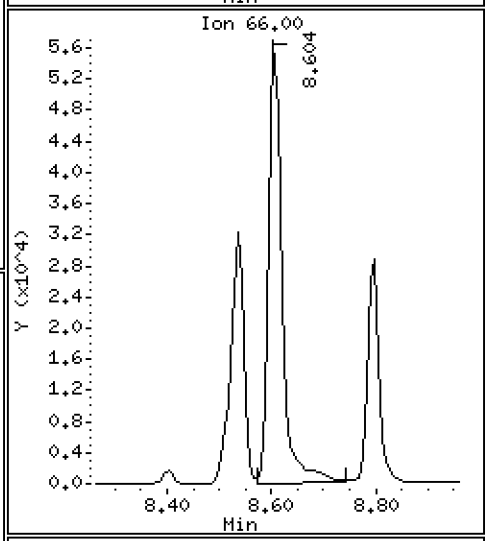


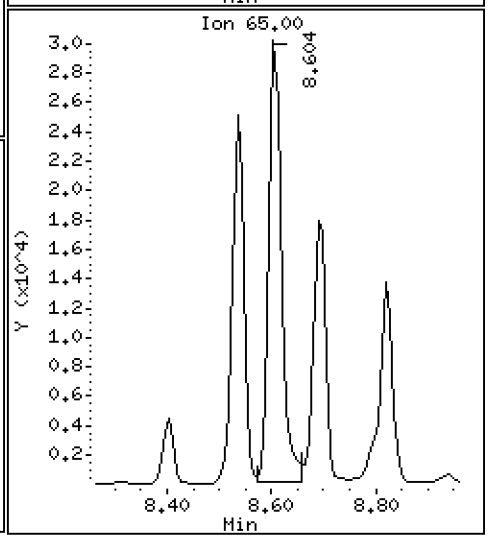












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123079.D

Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

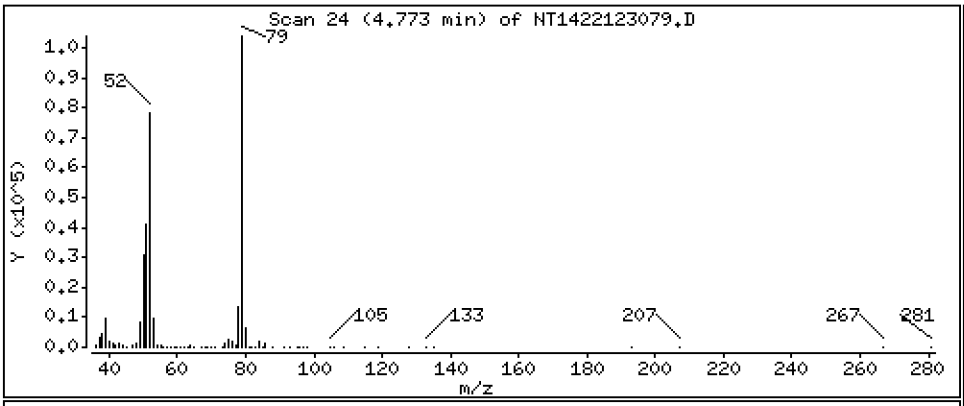
Operator: VTS

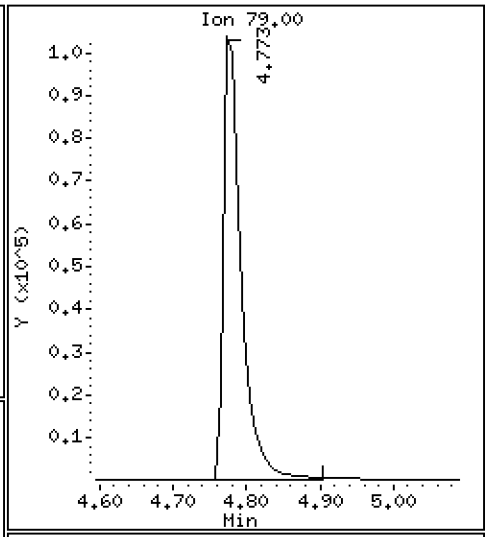
Column phase: ZB-5msi

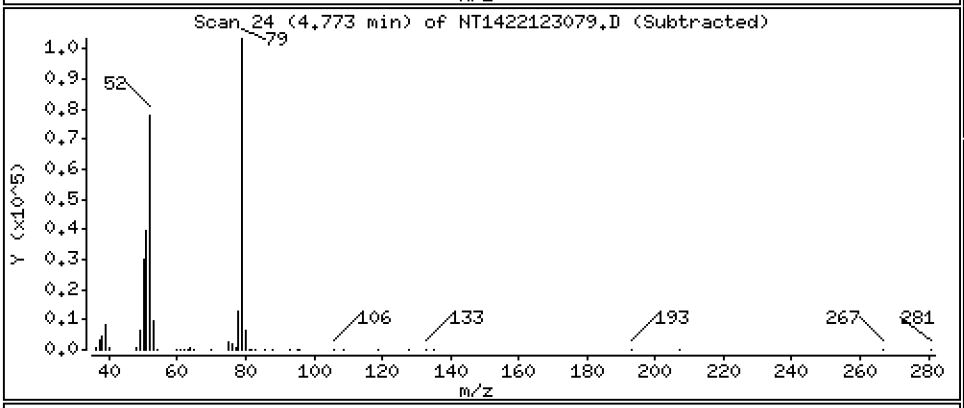
Column diameter: 0.25

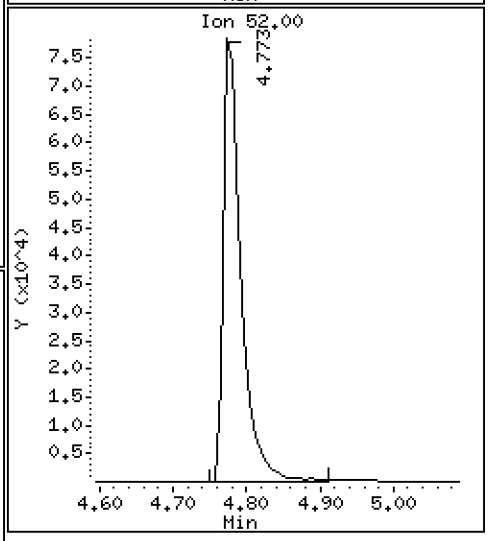
103 Pyridine

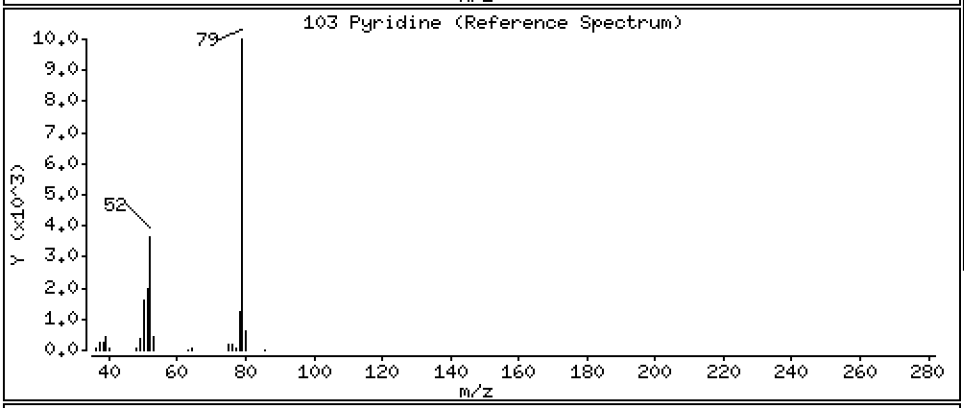
Concentration: 2.971 ug/mL

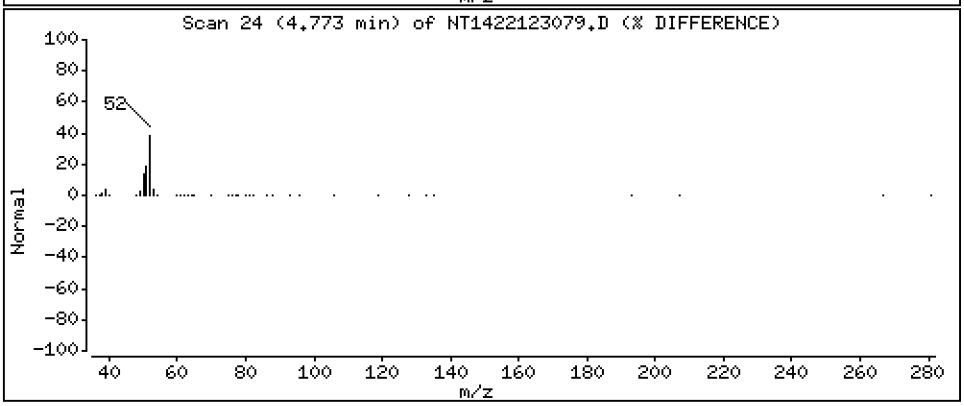












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123079.D

Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

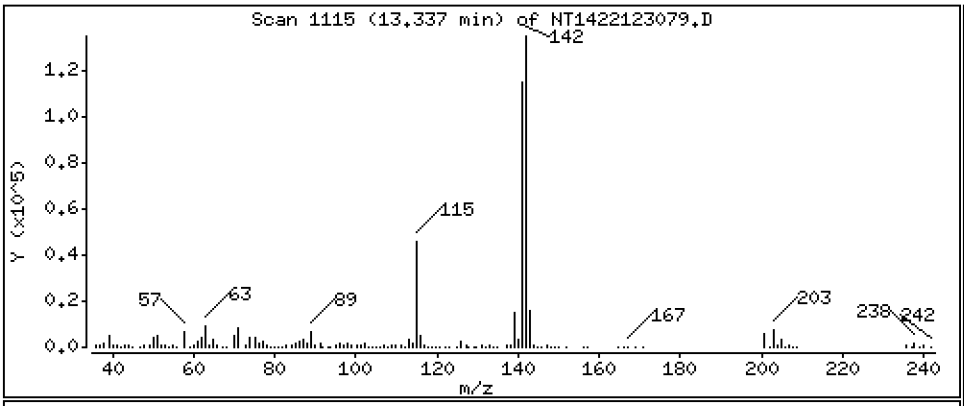
Operator: VTS

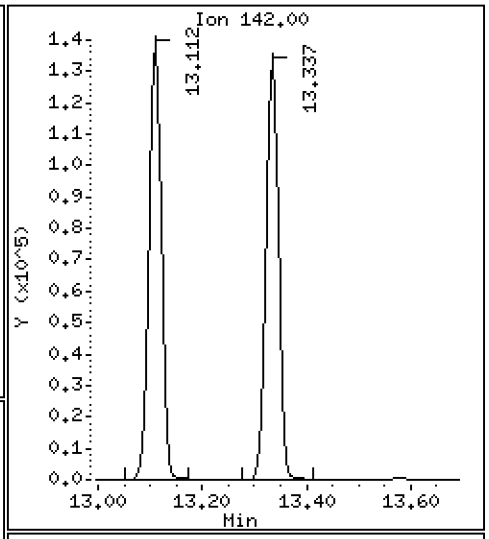
Column phase: ZB-5msi

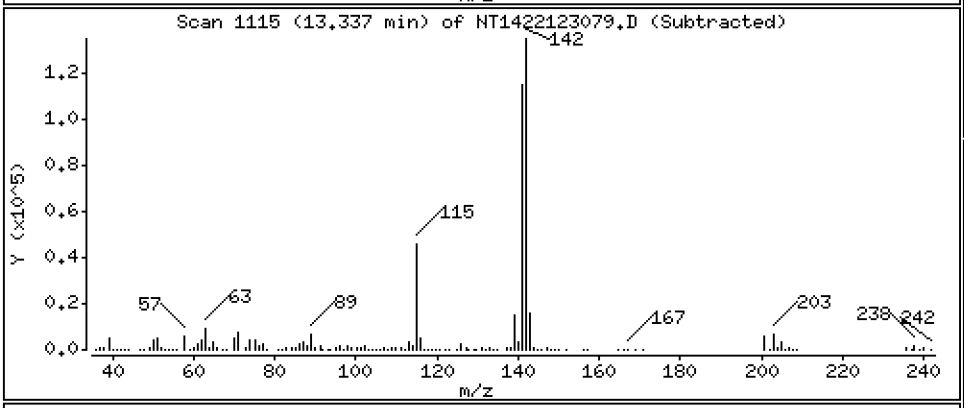
Column diameter: 0.25

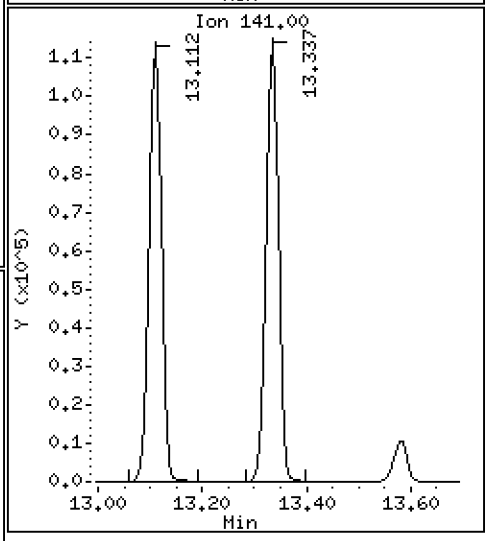
105 1-methylnaphthalene

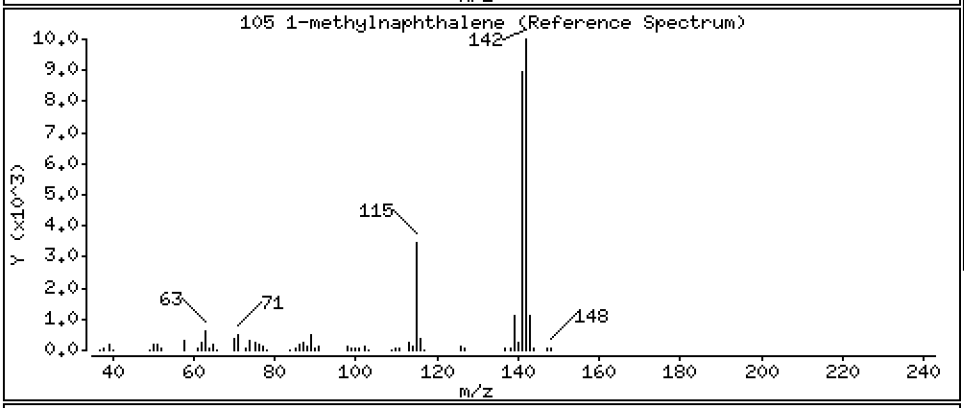
Concentration: 4.092 ug/mL

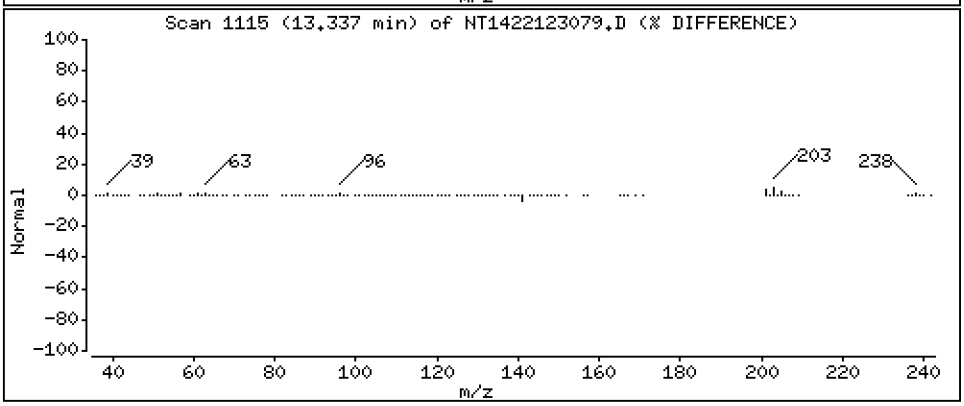












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123079.D

Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

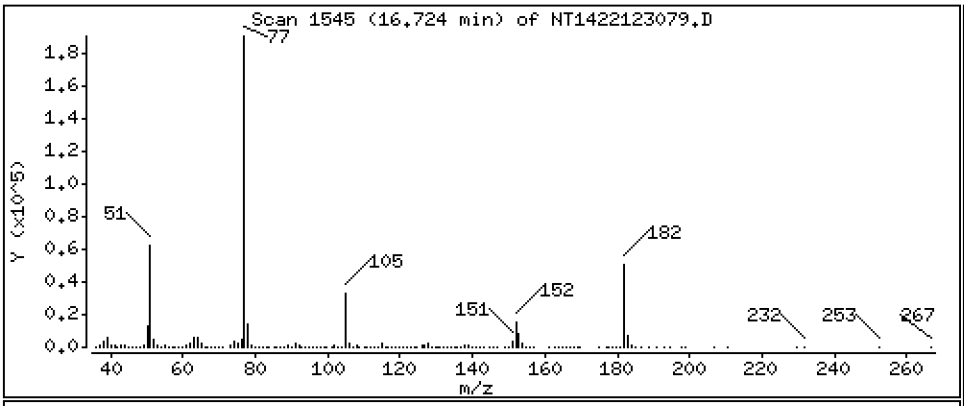
Operator: VTS

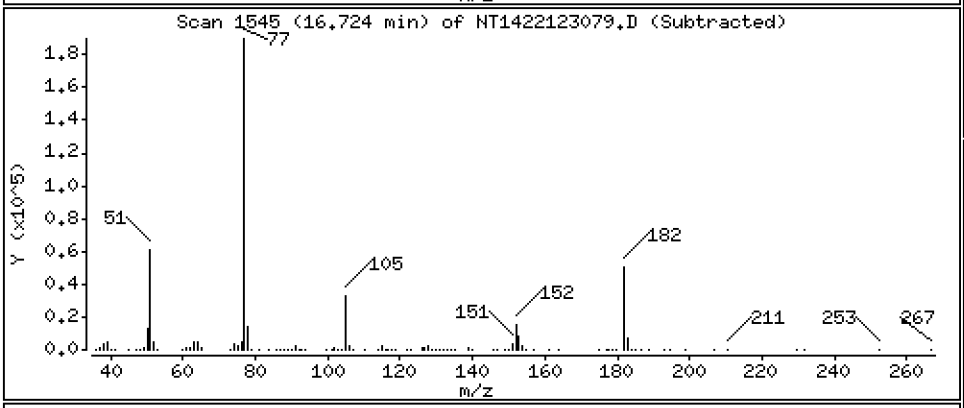
Column phase: ZB-5msi

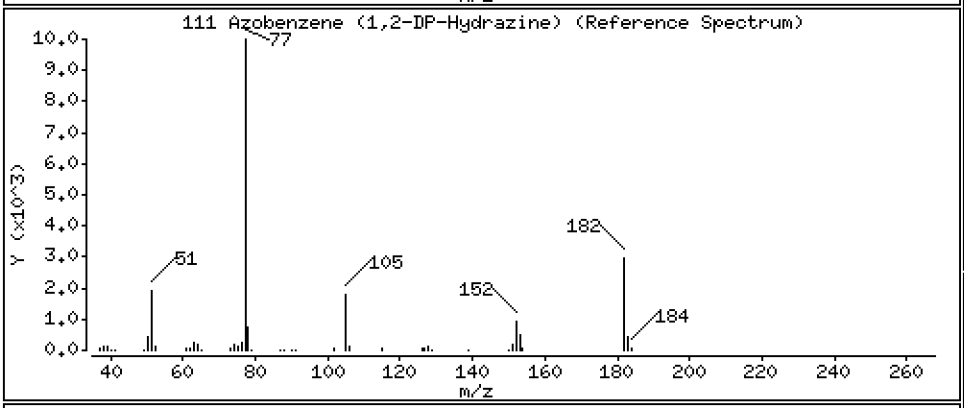
Column diameter: 0.25

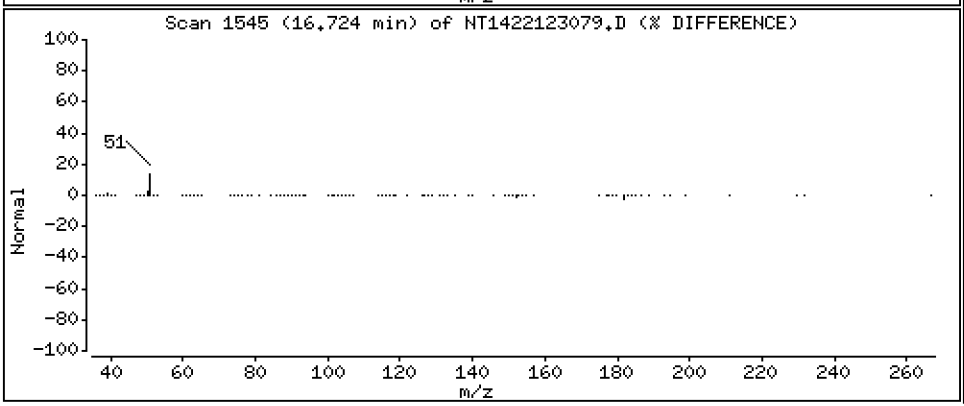
111 Azobenzene (1,2-DP-Hydrazine)

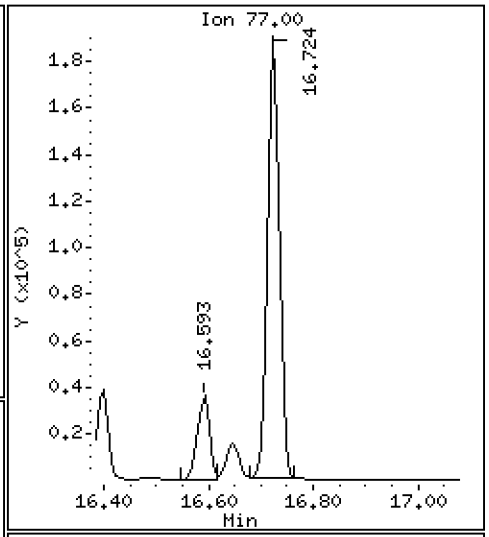
Concentration: 5.070 ug/mL

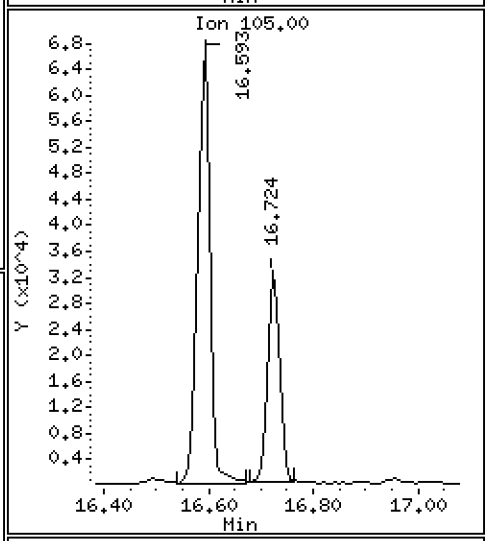


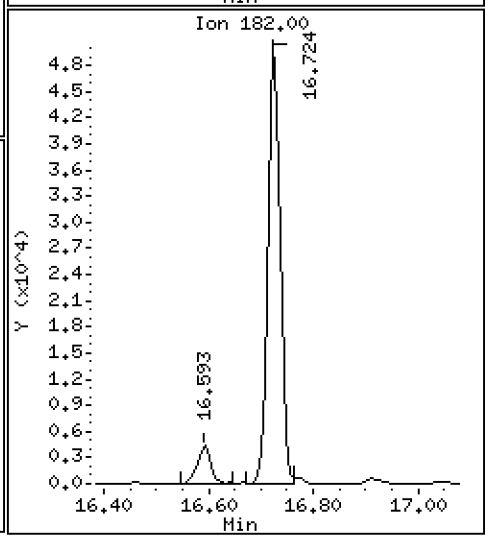












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Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

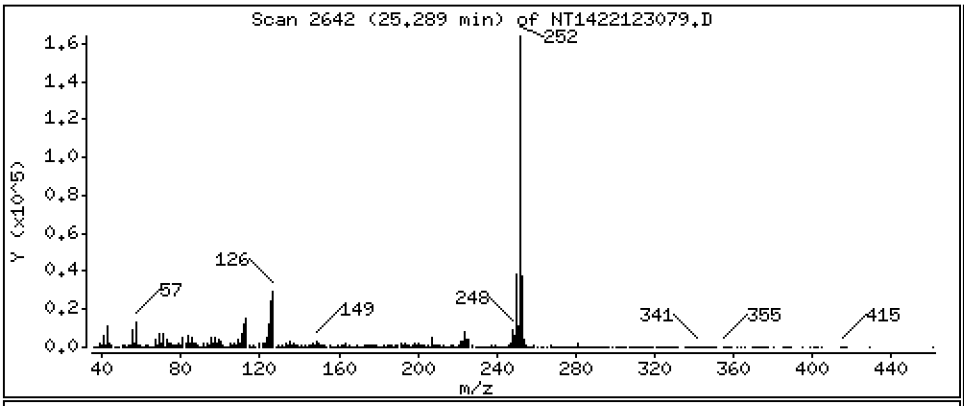
Operator: VTS

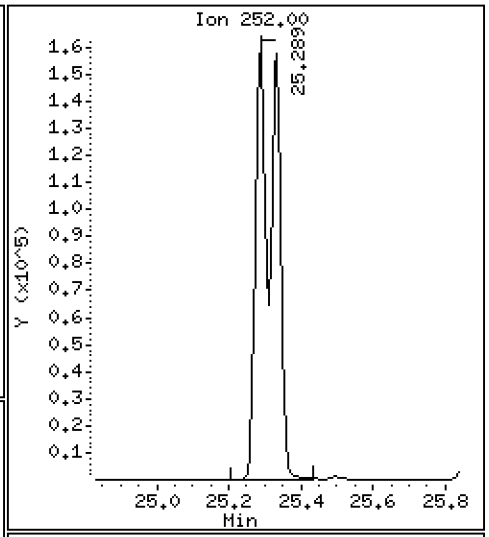
Column phase: ZB-5msi

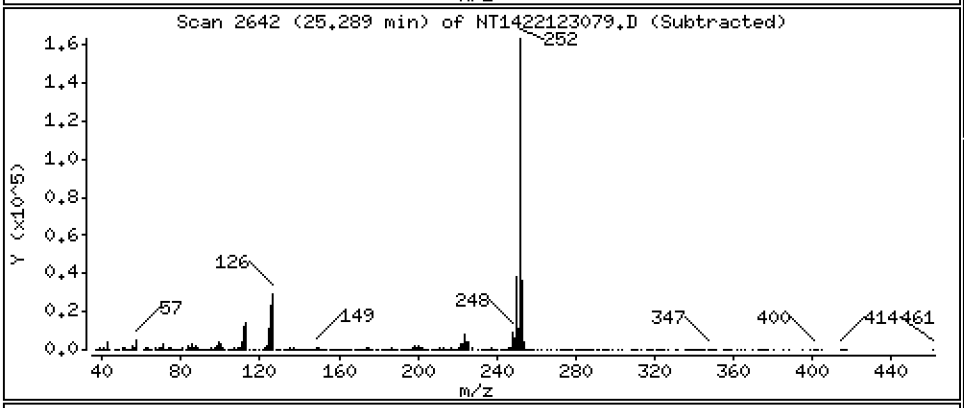
Column diameter: 0.25

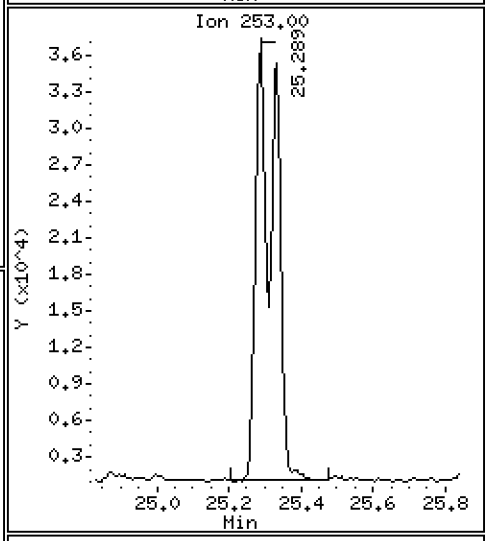
187 Total Benzofluoranthenes

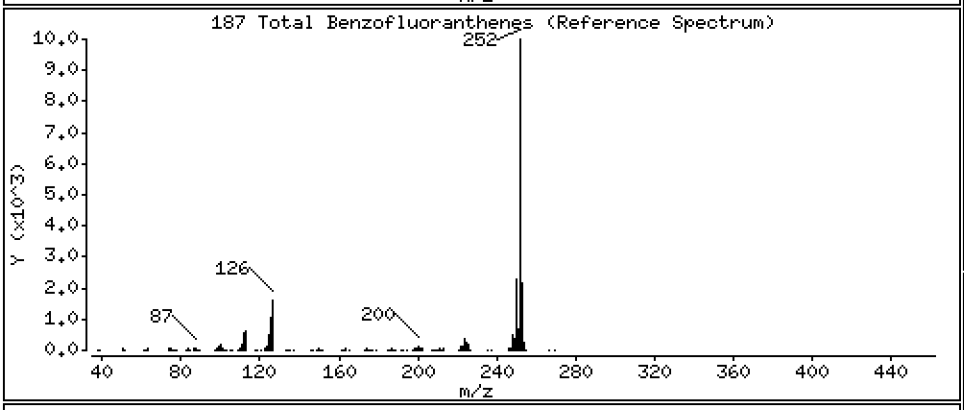
Concentration: 10.99 ug/mL

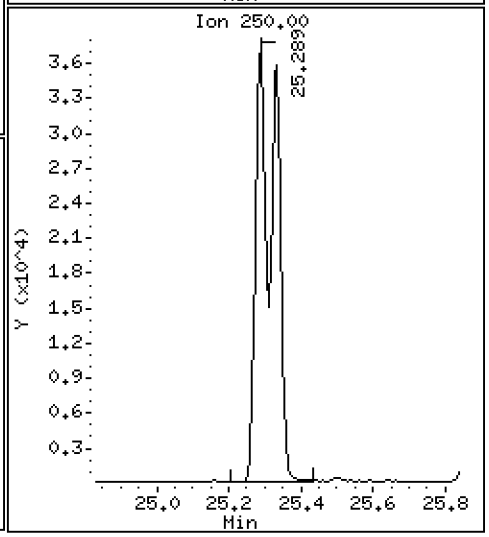


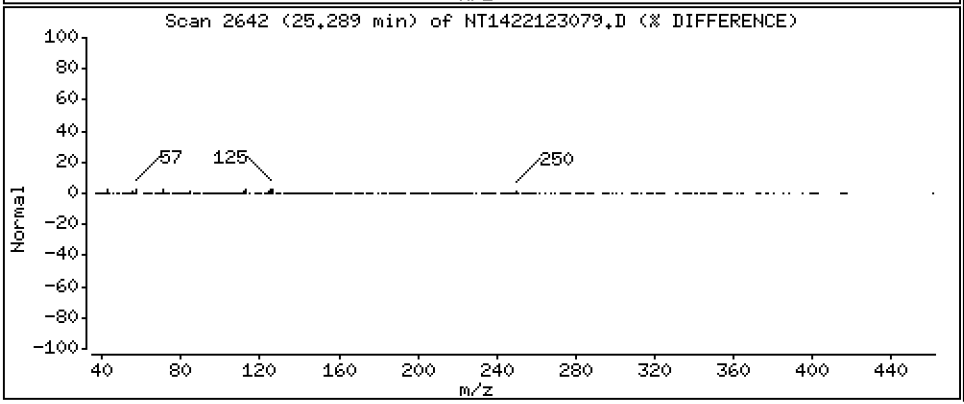












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123079.D

Date : 01-JAN-2023 07:17

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-MSD1

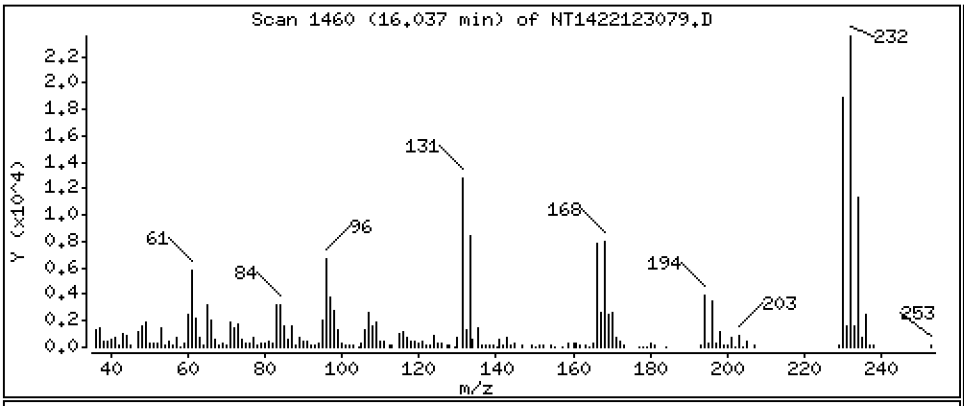
Operator: VTS

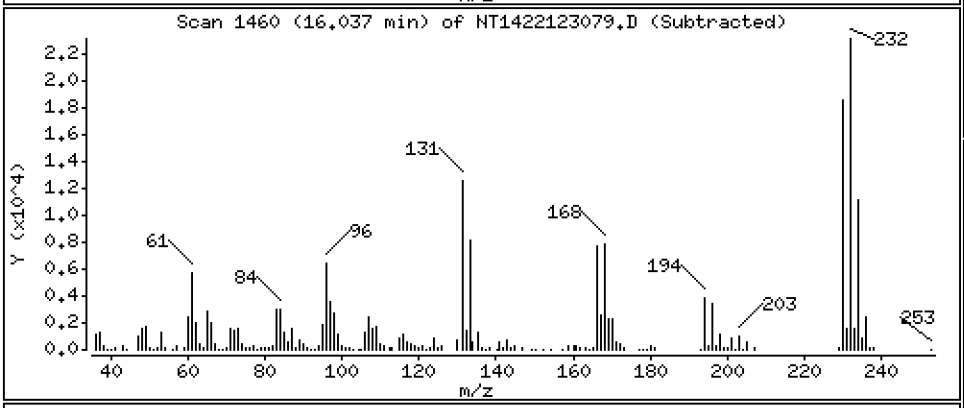
Column phase: ZB-5msi

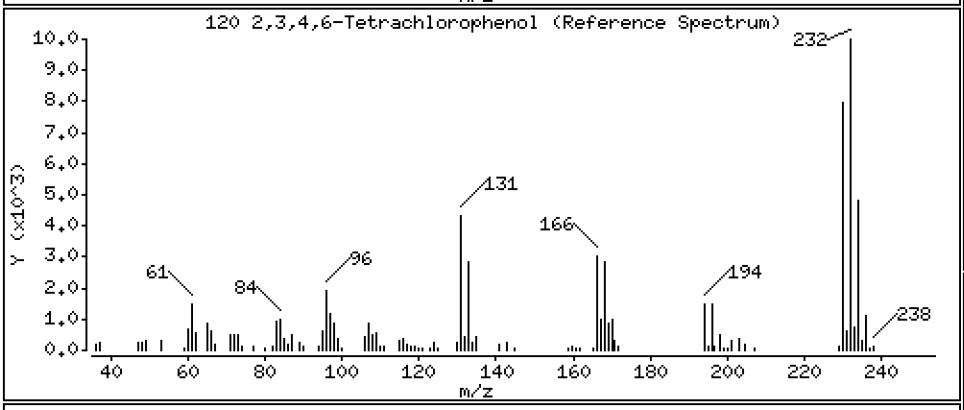
Column diameter: 0.25

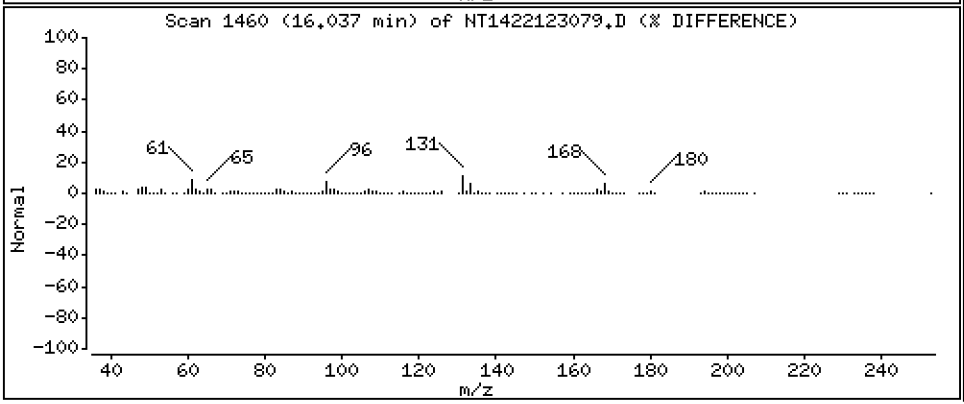
120 2,3,4,6-Tetrachlorophenol

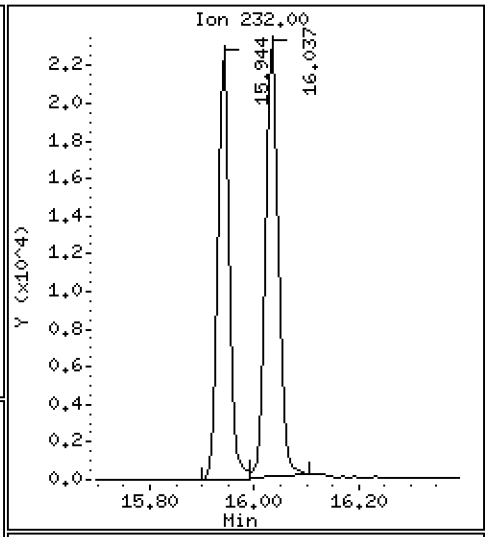
Concentration: 3.580 ug/mL

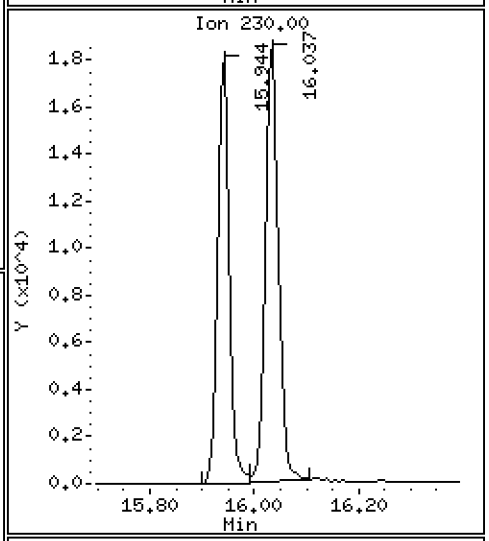


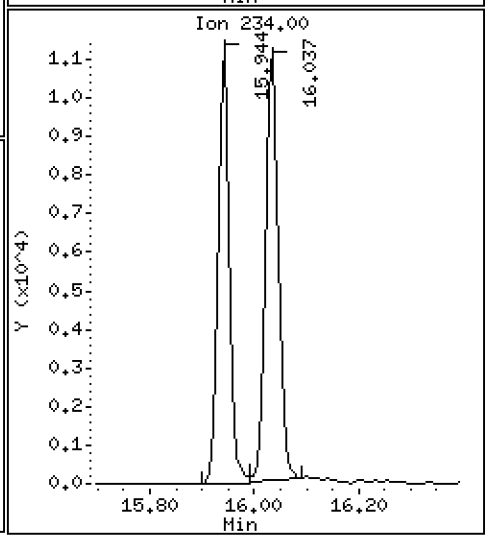












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230C.b\NT1422123079.D
Lab Smp Id: BKL0193-MSD1
Inj Date : 01-JAN-2023 07:17 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : BKL0193-MSD1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 50
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.927	6.919	(0.756)	156488	5.87871	5.879
$	2 Phenol-d5	99	8.511	8.519	(0.929)	201928	6.13823	6.138
	3 Phenol	94	8.534	8.542	(0.932)	131724	3.52391	3.524
$	5 2-Chlorophenol-d4	132	8.797	8.797	(0.960)	171832	6.21946	6.219
	4 Bis(2-Chloroethyl)ether	93	8.689	8.696	(0.949)	113786	4.41890	4.419
	6 2-Chlorophenol	128	8.820	8.827	(0.963)	109481	3.60818	3.608
	7 1,3-Dichlorobenzene	146	9.091	9.098	(0.992)	118386	3.67945	3.679
*	8 1,4-Dichlorobenzene-d4	152	9.160	9.160	(1.000)	83089	4.00000	
	9 1,4-Dichlorobenzene	146	9.191	9.191	(1.003)	116737	3.82979	3.830
$	10 1,2-Dichlorobenzene-d4	152	9.517	9.525	(1.039)	71114	3.76599	3.766
	12 1,2-Dichlorobenzene	146	9.548	9.556	(1.042)	114626	3.83447	3.834
	11 Benzyl alcohol	108	9.432	9.440	(1.030)	63564	3.81976	3.820
	14 2,2'-oxybis(1-Chloropropane)	121	9.735	9.735	(1.063)	37200	4.29221	4.292
	13 2-Methylphenol	108	9.657	9.665	(1.054)	90009	3.31377	3.314
	17 Hexachloroethane	117	10.146	10.154	(1.108)	43069	3.84177	3.842
	16 N-Nitroso-di-n-propylamine	70	9.991	9.998	(1.091)	73855	4.46353	4.464
	15 4-Methylphenol	108	9.937	9.936	(1.085)	101785	3.55224	3.552
$	18 Nitrobenzene-d5	82	10.255	10.262	(0.879)	115261	4.59480	4.595
	19 Nitrobenzene	77	10.293	10.301	(0.882)	110118	4.42012	4.420
	20 Isophorone	82	10.744	10.751	(0.921)	210920	6.64281	6.643
	21 2-Nitrophenol	139	10.930	10.937	(0.937)	65131	4.13090	4.131
	22 2,4-Dimethylphenol	107	10.984	10.992	(0.942)	304696	11.7185	11.72
	23 Bis(2-Chloroethoxy)methane	93	11.178	11.186	(0.958)	119253	4.82793	4.828
	24 Benzoic acid	105	11.178	11.209	(0.958)	269562	16.4094	16.41
	25 2,4-Dichlorophenol	162	11.395	11.395	(0.977)	332381	15.1651	15.17
	26 1,2,4-Trichlorobenzene	180	11.581	11.581	(0.993)	90121	3.80277	3.803
*	27 Naphthalene-d8	136	11.666	11.673	(1.000)	297062	4.00000	
	28 Naphthalene	128	11.704	11.712	(1.003)	304991	4.17192	4.172
	29 4-Chloroaniline	127	11.835	11.835	(1.015)	224206	7.43670	7.437
	30 Hexachlorobutadiene	225	12.075	12.075	(1.035)	48340	4.11112	4.111
	31 4-Chloro-3-methylphenol	107	12.802	12.810	(1.097)	333640	16.1310	16.13
	32 2-Methylnaphthalene	142	13.112	13.120	(1.124)	216616	4.03945	4.039
	33 Hexachlorocyclopentadiene	237	13.584	13.584	(0.888)	116475	10.0523	10.05

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.739	13.739	(0.898)	210447	16.4491	16.45
	35	2,4,5-Trichlorophenol	196	13.816	13.816	(0.903)	225702	15.2855	15.29
$	36	2-Fluorobiphenyl	172	13.894	13.901	(0.908)	229348	4.45019	4.450
	37	2-Chloronaphthalene	162	14.110	14.118	(0.922)	187449	4.27546	4.275
	38	2-Nitroaniline	65	14.366	14.373	(0.939)	214363	18.5972	18.60
	39	Dimethylphthalate	163	14.799	14.799	(0.967)	213432	4.93741	4.937
	40	Acenaphthylene	152	14.985	14.993	(0.979)	300741	4.49867	4.499
	41	2,6-Dinitrotoluene	165	14.931	14.938	(0.976)	168399	17.2619	17.26
*	42	Acenaphthene-d10	164	15.302	15.310	(1.000)	153282	4.00000	
	43	3-Nitroaniline	138	15.225	15.225	(0.995)	144694	12.2032	12.20
	44	Acenaphthene	153	15.364	15.371	(1.004)	193792	4.67381	4.674
	45	2,4-Dinitrophenol	184	15.433	15.441	(1.009)	120337	14.0637	14.06
	46	Dibenzofuran	168	15.696	15.704	(1.026)	271996	4.37443	4.374
	47	4-Nitrophenol	109	15.549	15.557	(1.016)	89314	15.1881	15.19
	48	2,4-Dinitrotoluene	165	15.750	15.750	(1.029)	217477	16.2480	16.25
	50	Diethylphthalate	149	16.261	16.268	(1.063)	366728	6.24158	6.242
	49	Fluorene	166	16.415	16.423	(1.073)	327157	4.94596	4.946
	51	4-Chlorophenyl-phenylether	204	16.400	16.407	(1.072)	162088	5.00521	5.005
	52	4-Nitroaniline	138	16.492	16.500	(1.078)	184442	12.5444	12.54
	53	4,6-Dinitro-2-methylphenol	198	16.592	16.600	(0.904)	247113	22.1736	22.17
	54	N-Nitrosodiphenylamine	169	16.646	16.654	(0.907)	195744	4.51855	4.519
$	55	2,4,6-Tribromophenol	330	16.947	16.955	(1.108)	49204	6.61417	6.614
	56	4-Bromophenyl-phenylether	248	17.410	17.410	(0.949)	77065	4.69803	4.698
	57	Hexachlorobenzene	284	17.727	17.734	(0.966)	77219	4.28964	4.290
	58	Pentachlorophenol	266	18.083	18.090	(0.985)	81867	9.97470	9.975
*	59	Phenanthrene-d10	188	18.353	18.361	(1.000)	252454	4.00000	
	60	Phenanthrene	178	18.400	18.408	(1.003)	306086	4.65019	4.650
	61	Anthracene	178	18.493	18.500	(1.008)	250946	3.99360	3.994
	62	Carbazole	167	18.825	18.825	(1.026)	266888	4.39348	4.393
	63	Di-n-butylphthalate	149	19.607	19.614	(1.068)	384860	5.36825	5.368
	64	Fluoranthene	202	20.783	20.791	(0.888)	360427	5.51383	5.514
	65	Pyrene	202	21.208	21.216	(0.906)	366896	5.33832	5.338
$	66	Terphenyl-d14	244	21.487	21.495	(0.918)	231095	4.74207	4.742
	67	Butylbenzylphthalate	149	22.401	22.408	(0.957)	158300	5.97695	5.977
	68	Benzo(a)anthracene	228	23.368	23.376	(0.999)	312745	5.08533	5.085
*	69	Chrysene-d12	240	23.399	23.399	(1.000)	203015	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.314	23.322	(0.996)	159674	8.48137	8.481
	71	Chrysene	228	23.438	23.446	(1.002)	309018	5.31951	5.320
	72	bis(2-Ethylhexyl)phthalate	149	23.423	23.430	(0.959)	230170	5.67795	5.678
*	134	Di-n-octylphthalate-d4	153	24.421	24.421	(1.000)	365012	4.00000	
	73	Di-n-octylphthalate	149	24.429	24.429	(1.000)	407728	4.65345	4.653
	74	Benzo(b)fluoranthene	252	25.288	25.296	(0.970)	324361	5.72526	5.725
	75	Benzo(k)fluoranthene	252	25.335	25.335	(0.971)	306804	5.32066	5.321
	76	Benzo(a)pyrene	252	25.962	25.970	(0.996)	240315	5.10258	5.103
*	77	Perylene-d12	264	26.078	26.086	(1.000)	180272	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.830	28.838	(1.106)	156267	2.91878	2.919
	79	Dibenzo(a,h)anthracene	278	28.846	28.853	(1.106)	138991	3.05504	3.055
	80	Benzo(g,h,i)perylene	276	29.646	29.653	(1.137)	104567	2.33146	2.331
	90	N-Nitrosodimethylamine	74	4.726	4.718	(0.516)	205442	11.2062	11.21
	91	Aniline	93	8.604	8.611	(0.939)	254949	7.00480	7.005
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	4.772	4.741	(0.521)	173094	2.97135	2.971
	105	1-methylnaphthalene	142	13.336	13.344	(1.143)	210841	4.09205	4.092
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.724	16.731	(1.093)	288570	5.06956	5.070

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.288	25.335	(0.970)	602006	10.9910	10.99
120 2,3,4,6-Tetrachlorophenol	232	16.036	16.044	(1.048)	39784	3.58046	3.580

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123079.D
Lab Smp Id: BKL0193-MSD1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Misc Info:

Calibration Date: 31-DEC-2022
Calibration Time: 23:30
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138755	69378	277510	83089	-40.12
27 Naphthalene-d8	501723	250862	1003446	297062	-40.79
42 Acenaphthene-d10	275234	137617	550468	153282	-44.31
59 Phenanthrene-d10	440085	220043	880170	252454	-42.64
69 Chrysene-d12	384795	192398	769590	203015	-47.24
134 Di-n-octylphthala	674530	337265	1349060	365012	-45.89
77 Perylene-d12	336665	168333	673330	180272	-46.45

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	-0.07
42 Acenaphthene-d10	15.31	14.81	15.81	15.30	-0.05
59 Phenanthrene-d10	18.36	17.86	18.86	18.35	-0.04
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.42	0.00
77 Perylene-d12	26.09	25.59	26.59	26.08	-0.03

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

REVIEW SUMMARY FOR FILE - NT1422123079.D

Lab ID: BKL0193-MSD1
nt14.i, 20221230C.b\ABN.m,   01-JAN-2023 07:17

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1422123066.D

On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

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

STANDARD REFERENCE MATERIAL RECOVERY

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0193-SRM1
Batch: BKL0193
Initial/Final: 1 g / 1 mL
Preparation: EPA 3546 (Microwave)
Analyzed: 01/01/2023 3:05
Standard ID: K000591
Expires: 07/17/2022
Standard Lot#: CRM 143 (LRAC8918)
Description: CRM 143 BNAs - Sandy Loam

ANALYTE	TRUE (ug/kg wet)	FOUND (ug/kg wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Phenol	2660.0	2010	43.9	200		75.5	26 - 174
4-Methylphenol	6617.0	5190	73.9	200		78.5	40 - 160
bis(2-Ethylhexyl)phthalate	2905.0	2670	54.6	500		92.0	26 - 174

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123072.D

Date : 01-JAN-2023 03:05

Client ID:

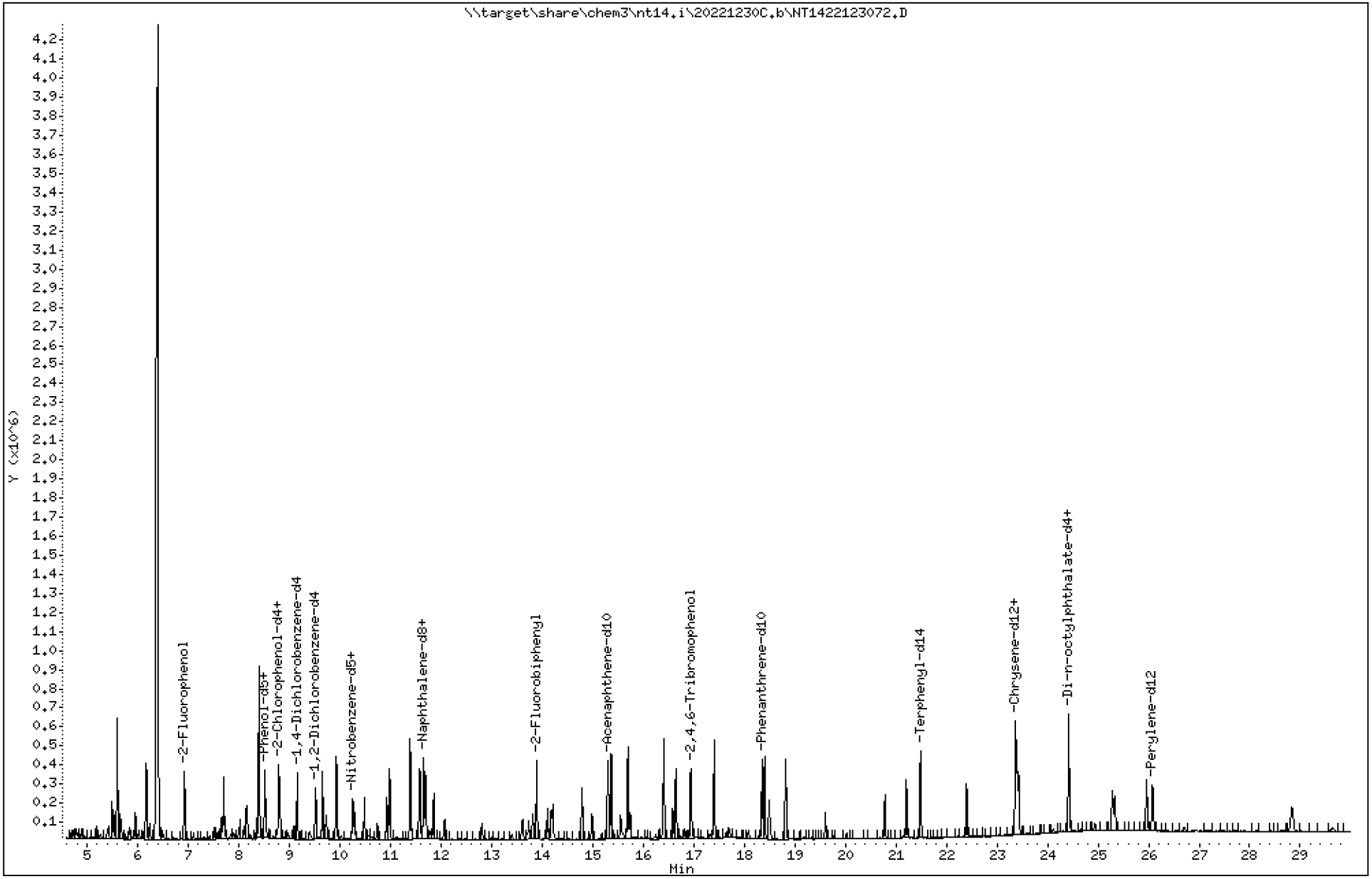
Instrument: nt14.i

Sample Info: BKL0193-SRM1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

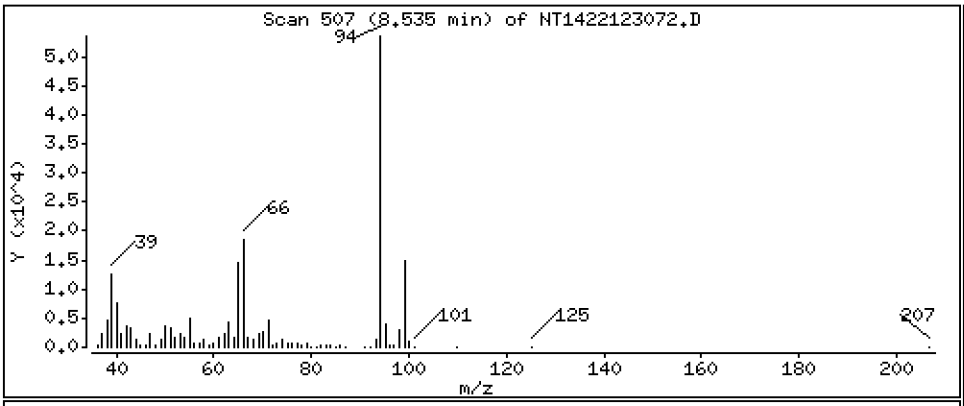
Operator: VTS

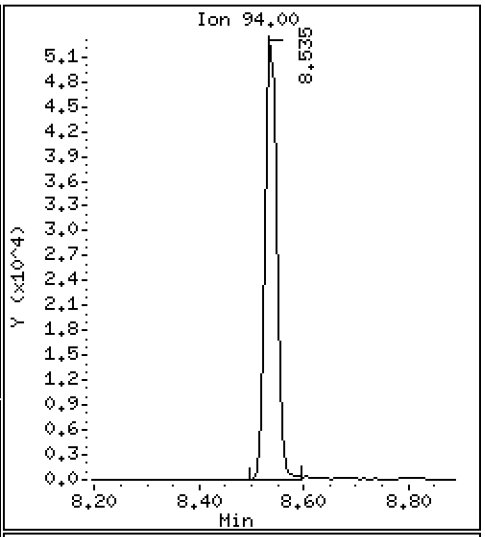
Column phase: ZB-5msi

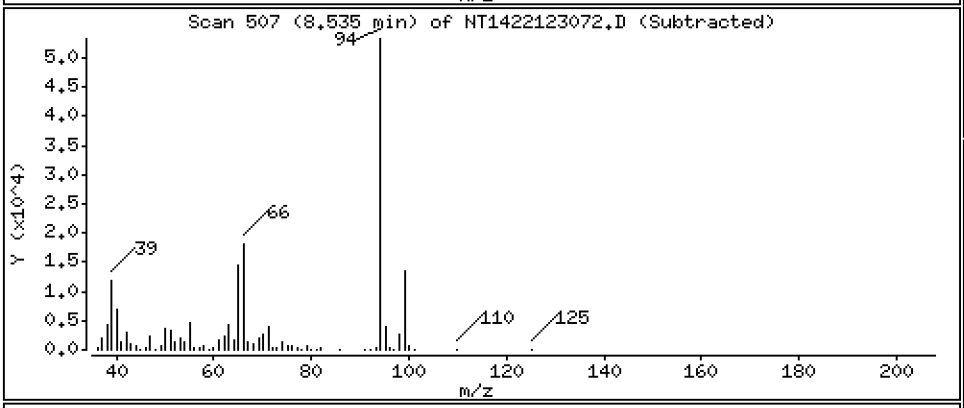
Column diameter: 0.25

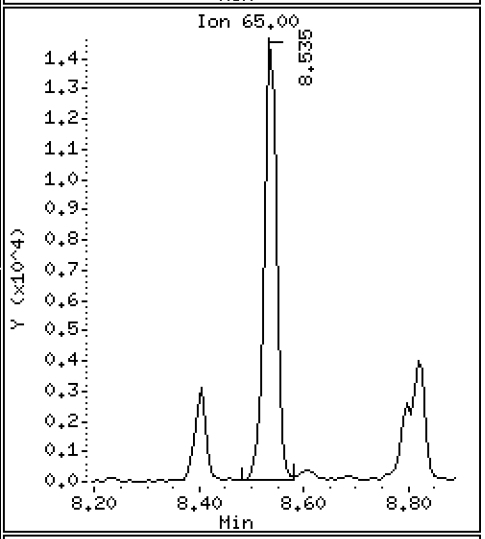
3 Phenol

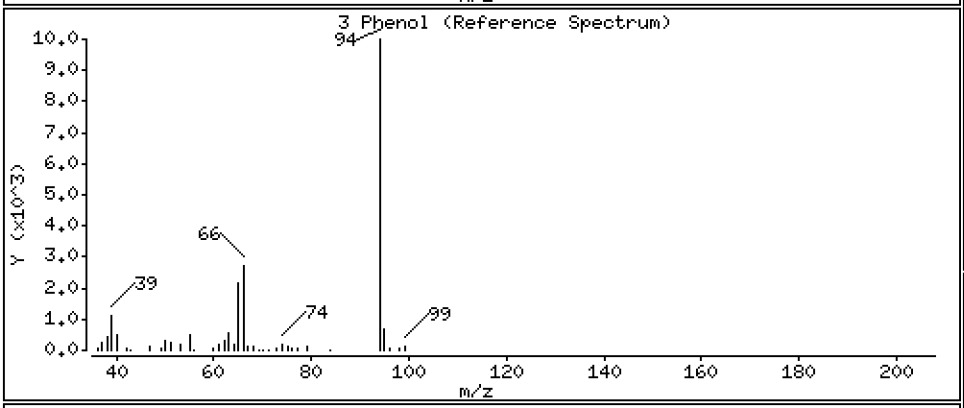
Concentration: 2.008 ug/mL

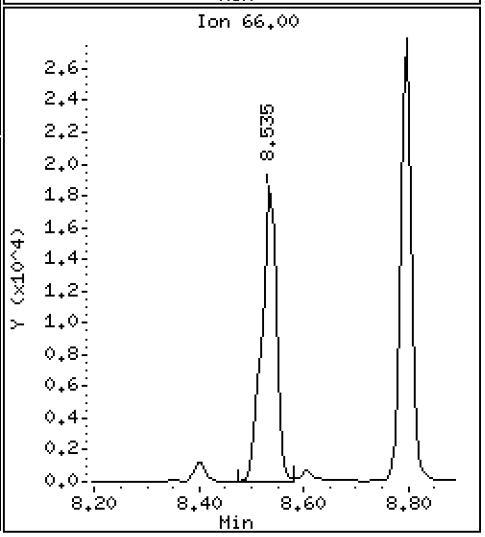


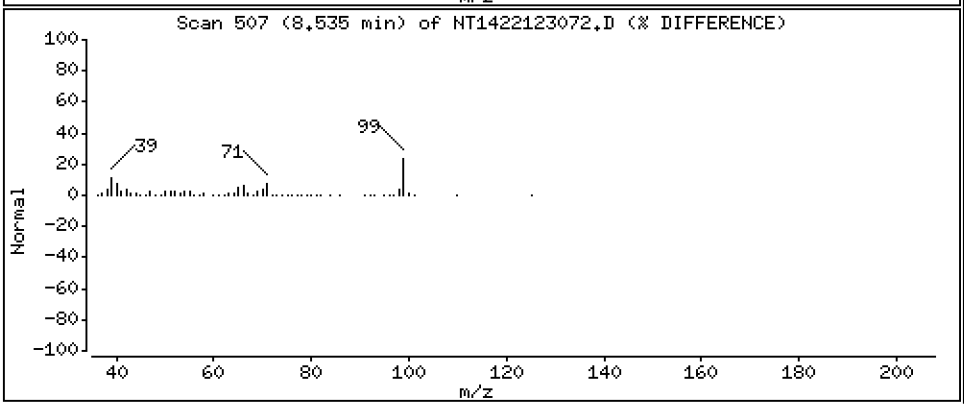












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

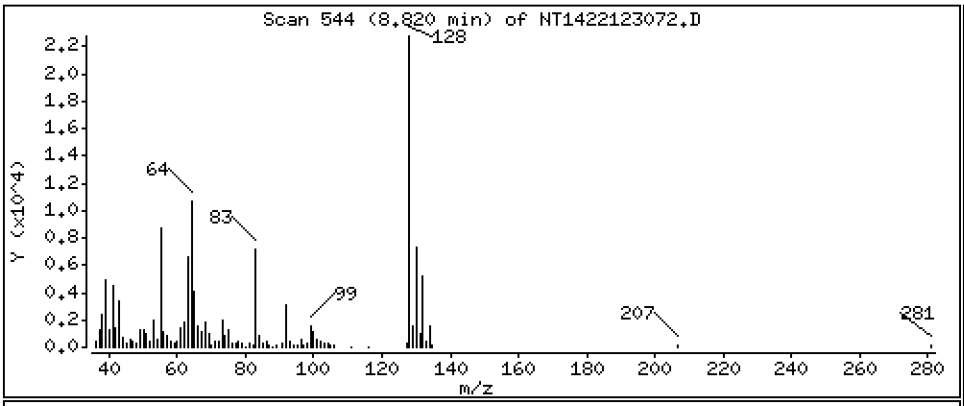
Operator: VTS

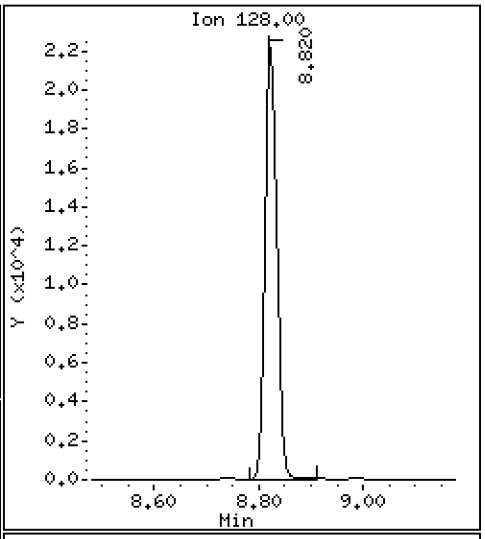
Column phase: ZB-5msi

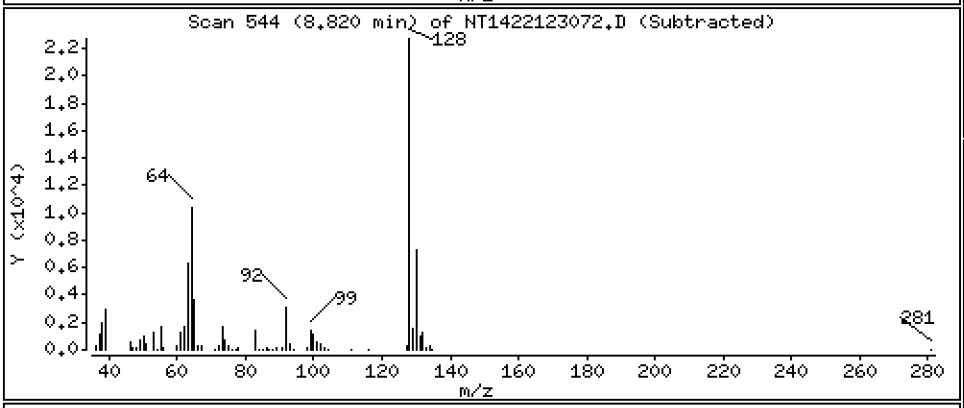
Column diameter: 0.25

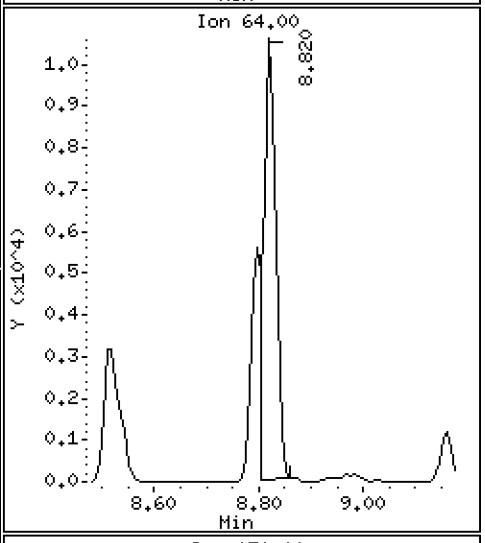
6 2-Chlorophenol

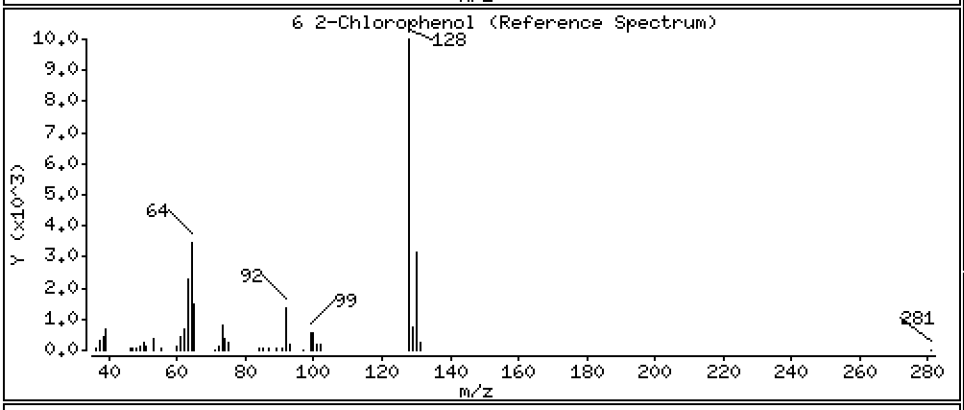
Concentration: 1.076 ug/mL

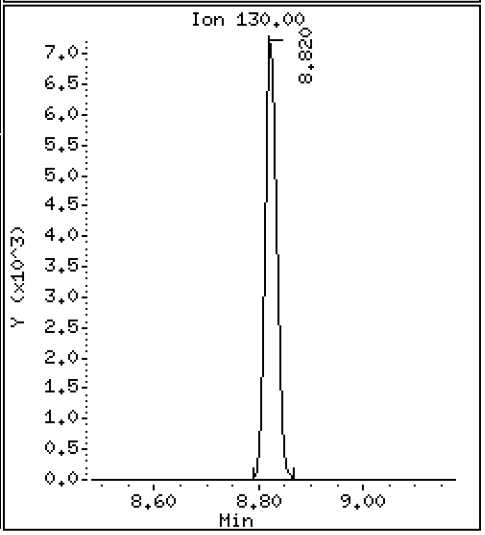


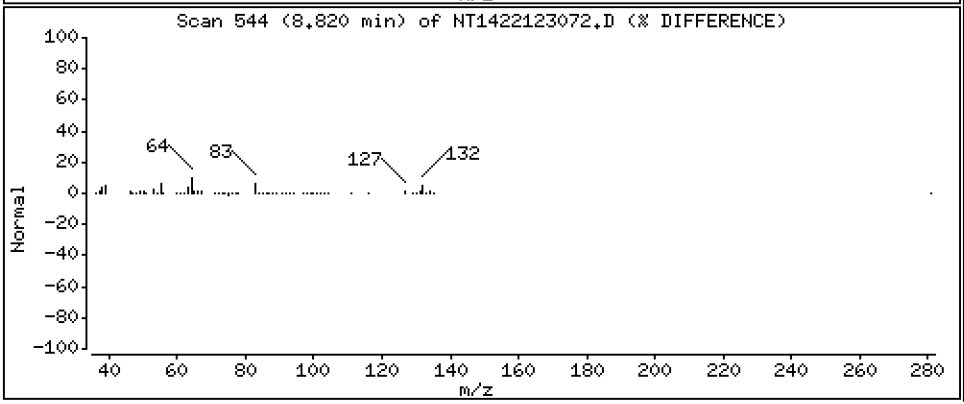












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

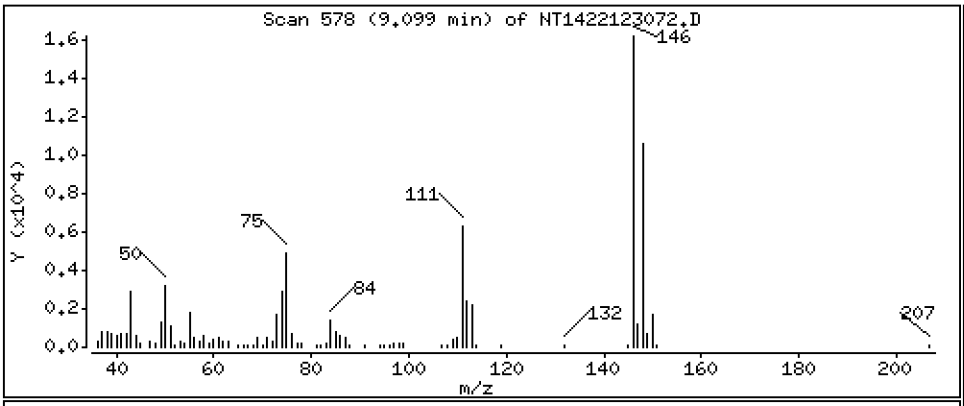
Operator: VTS

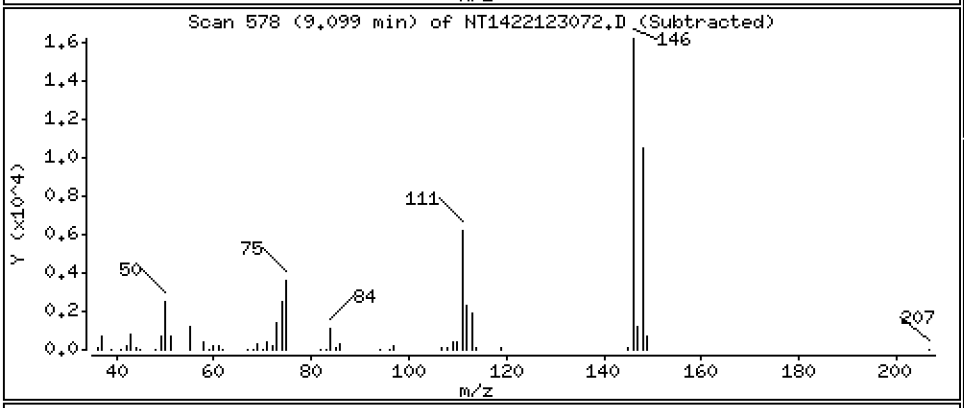
Column phase: ZB-5msi

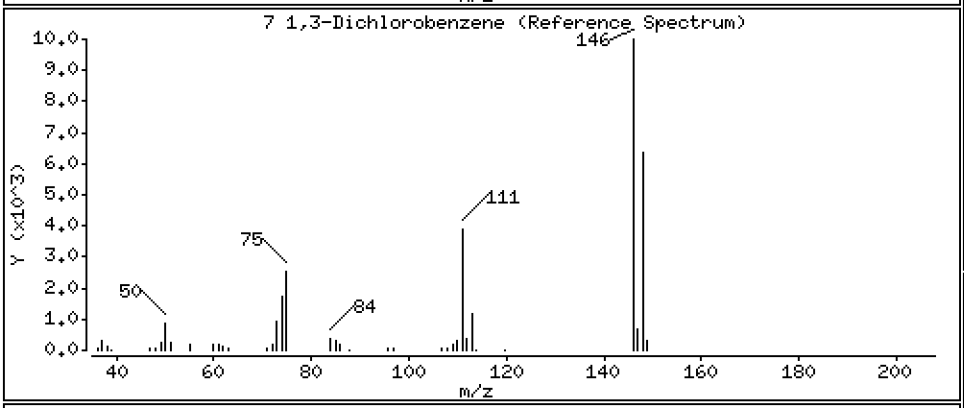
Column diameter: 0.25

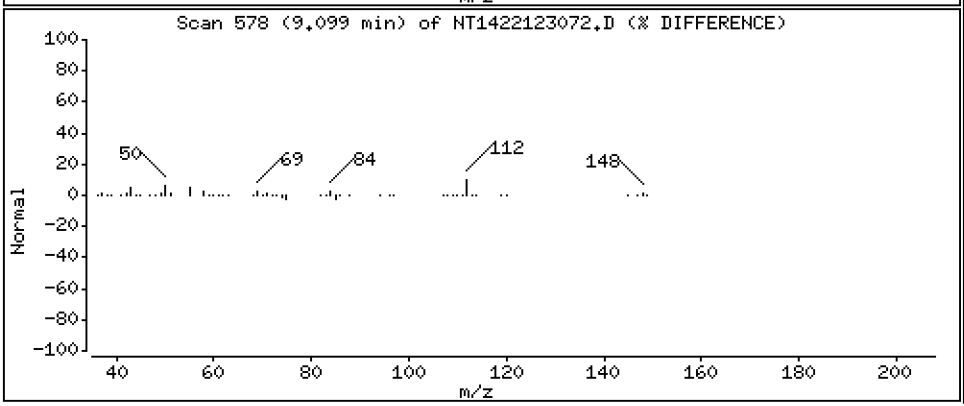
7 1,3-Dichlorobenzene

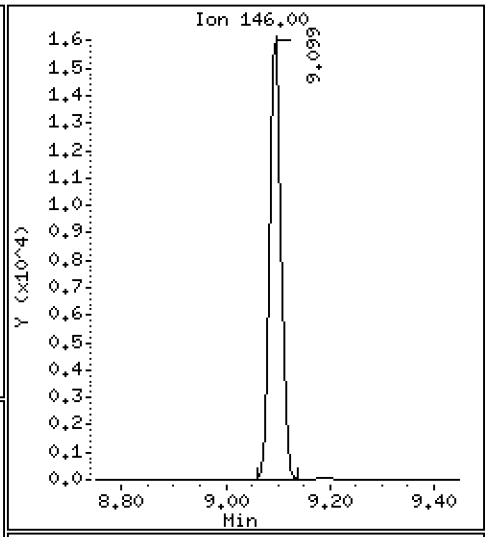
Concentration: 0.7357 ug/mL

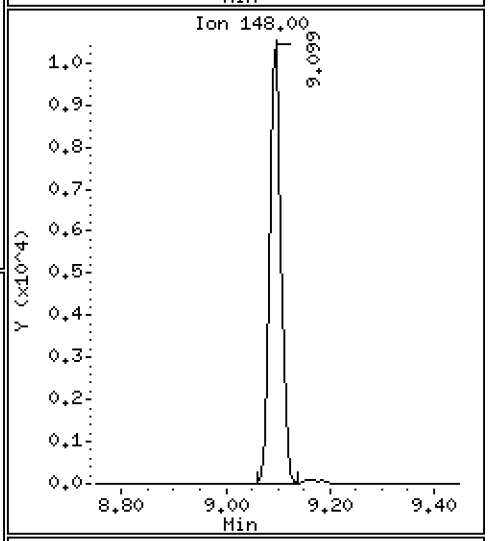


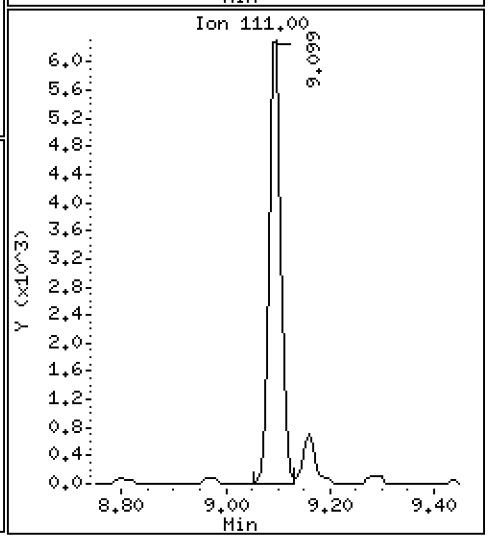












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

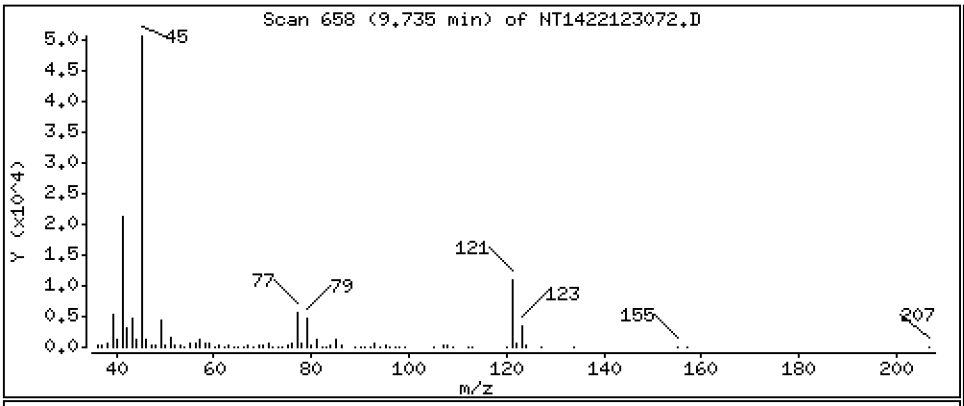
Operator: VTS

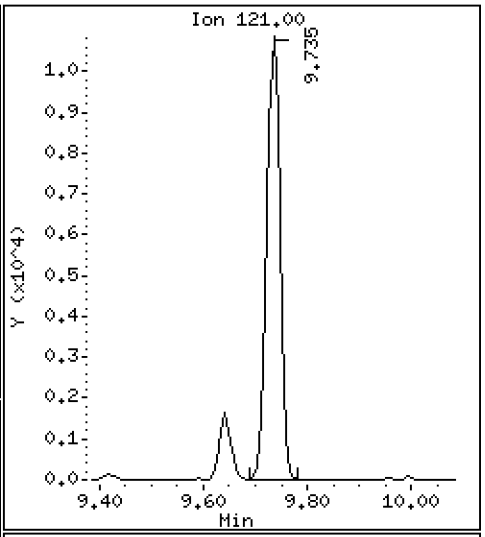
Column phase: ZB-5msi

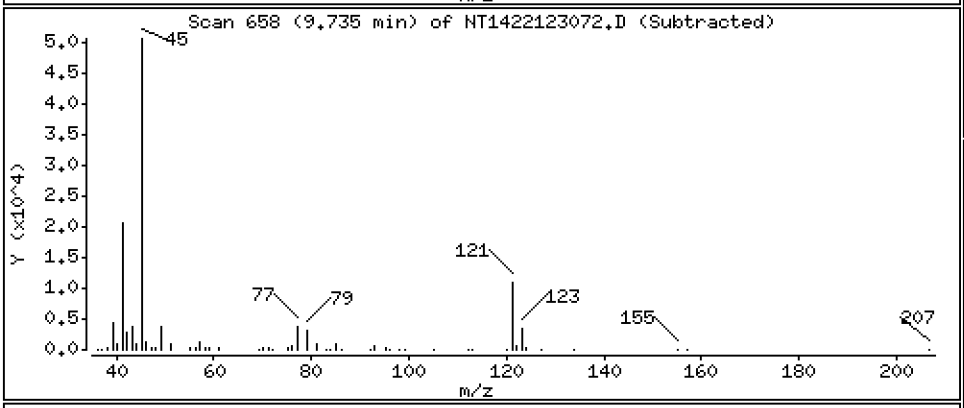
Column diameter: 0.25

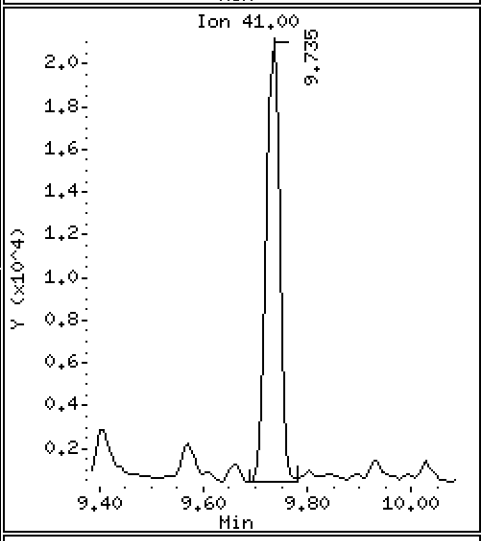
14 2,2'-oxybis(1-Chloropropane)

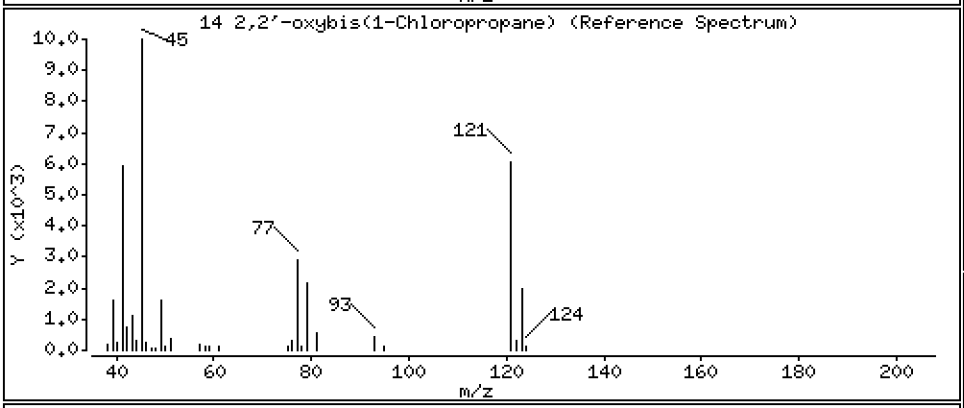
Concentration: 2.059 ug/mL

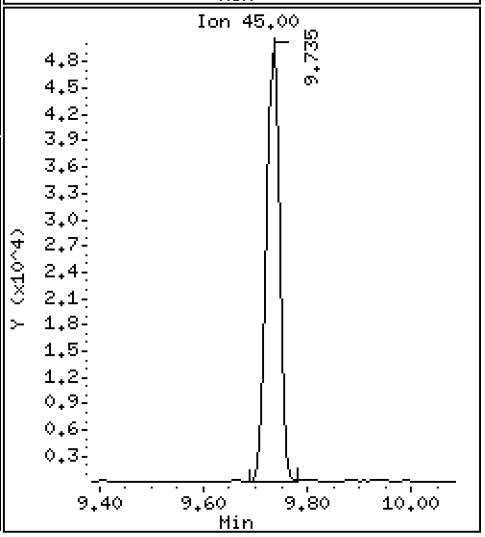


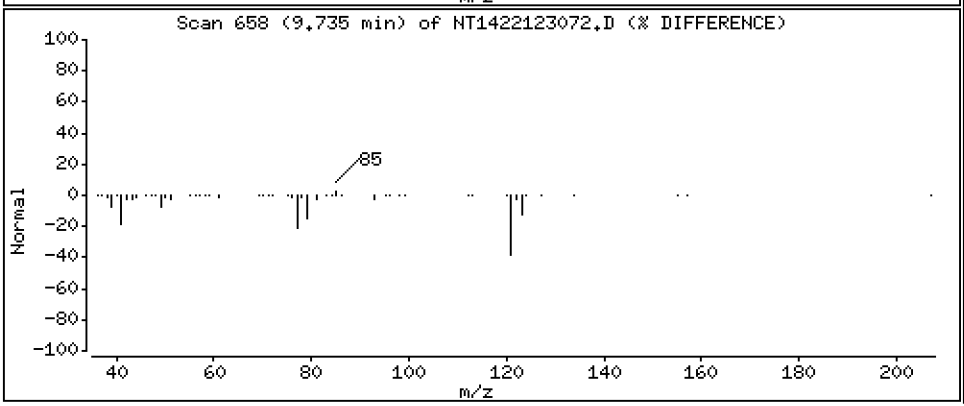












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

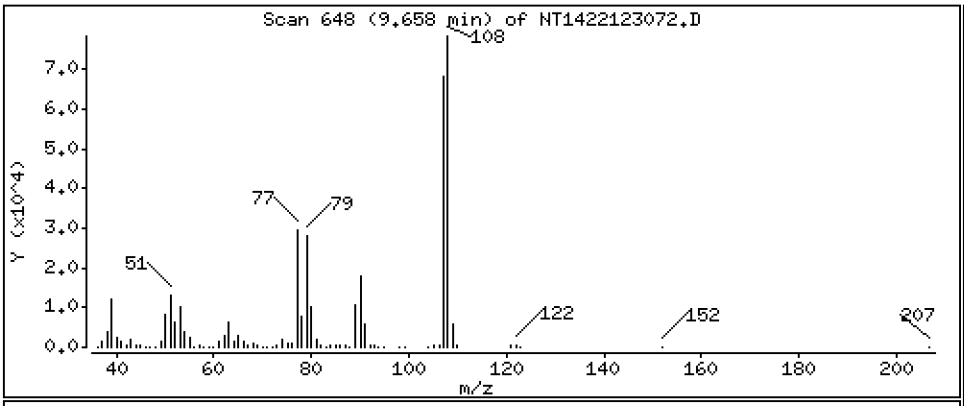
Operator: VTS

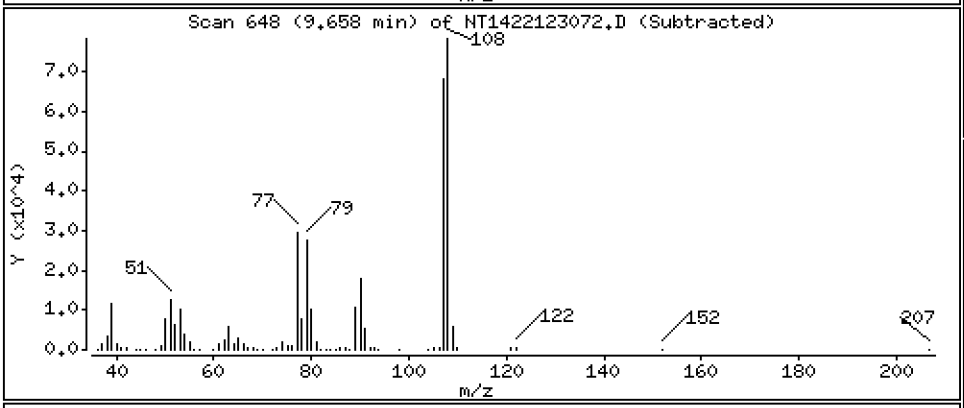
Column phase: ZB-5msi

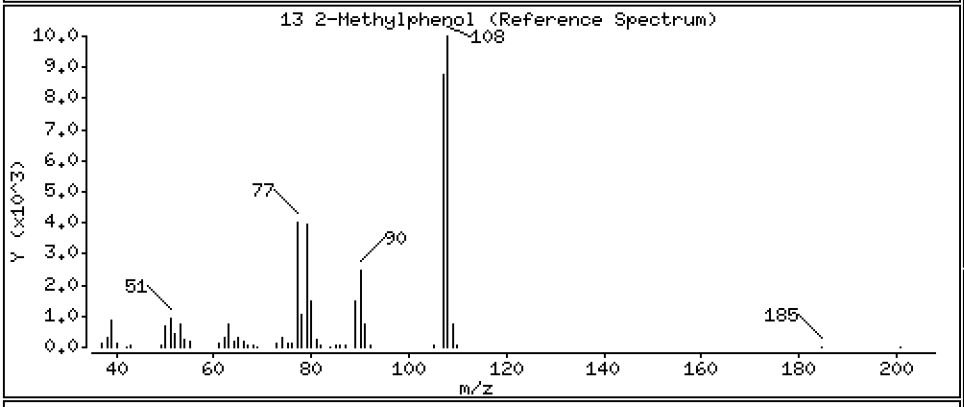
Column diameter: 0.25

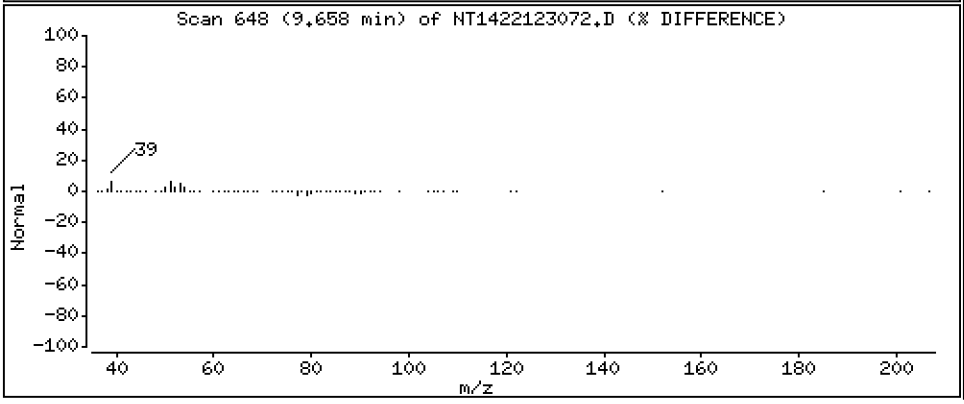
13 2-Methylphenol

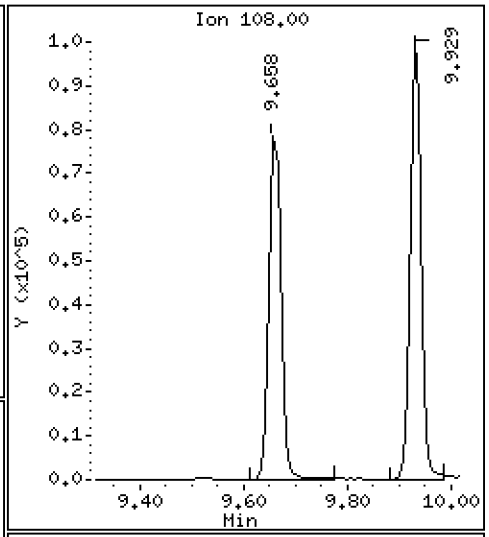
Concentration: 4.273 ug/mL

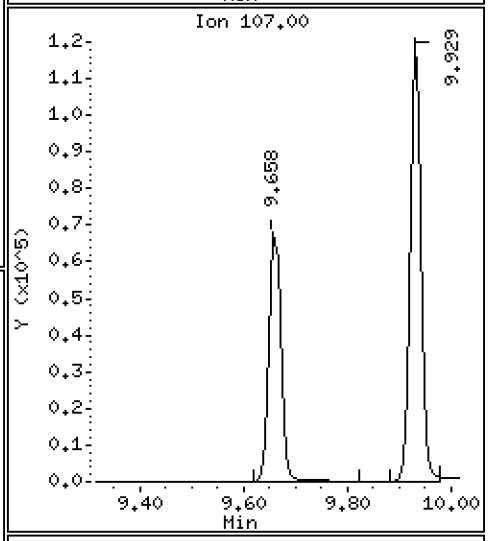


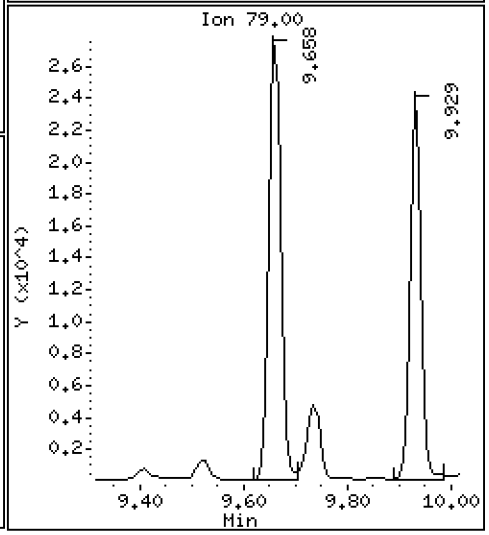












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

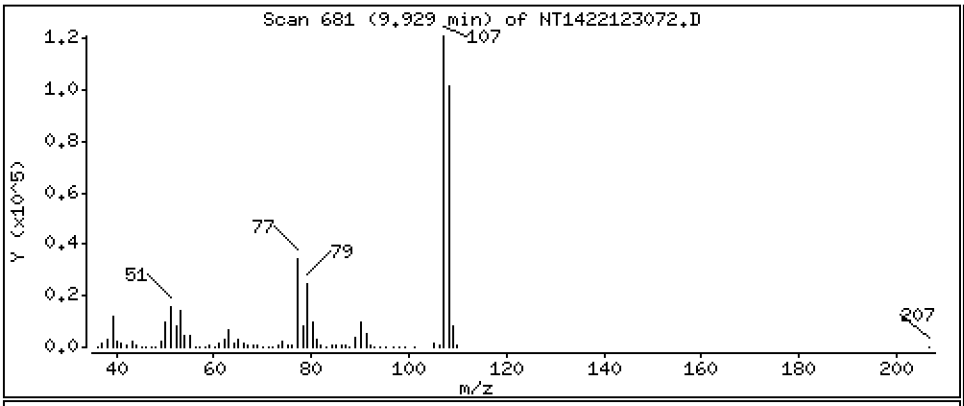
Operator: VTS

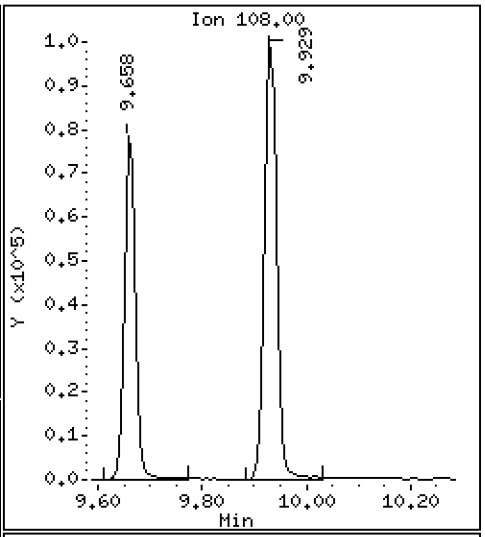
Column phase: ZB-5msi

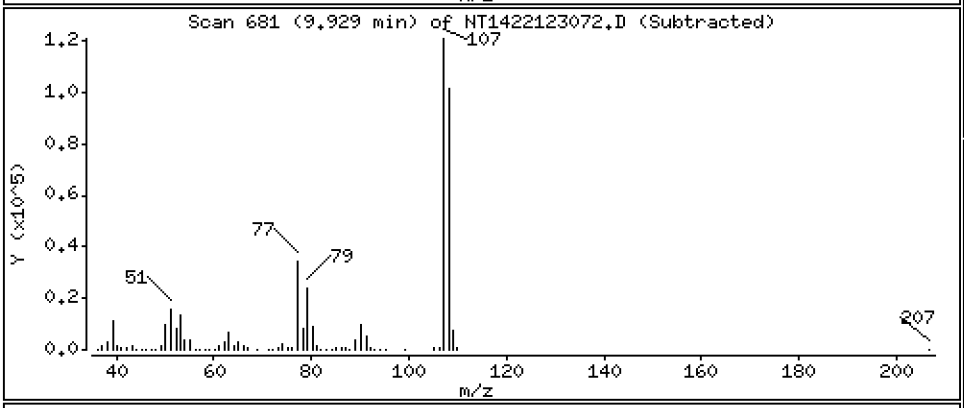
Column diameter: 0.25

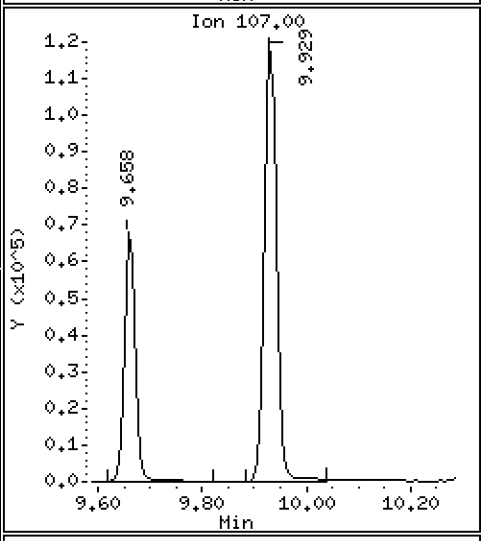
15 4-Methylphenol

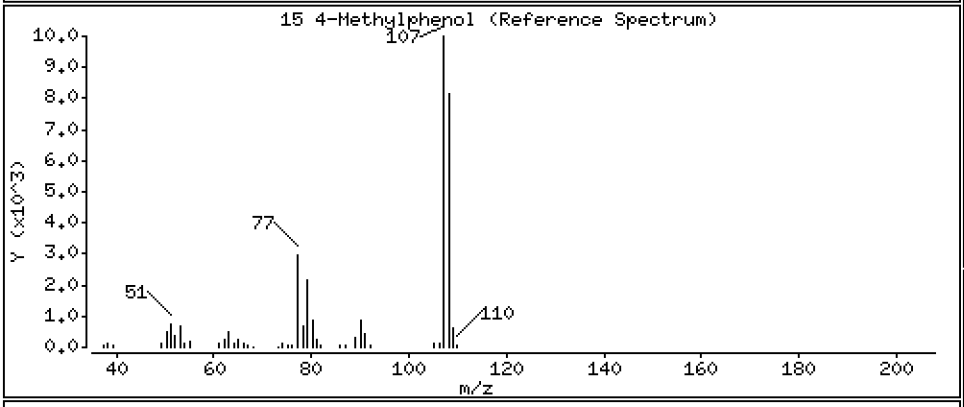
Concentration: 5.194 ug/mL

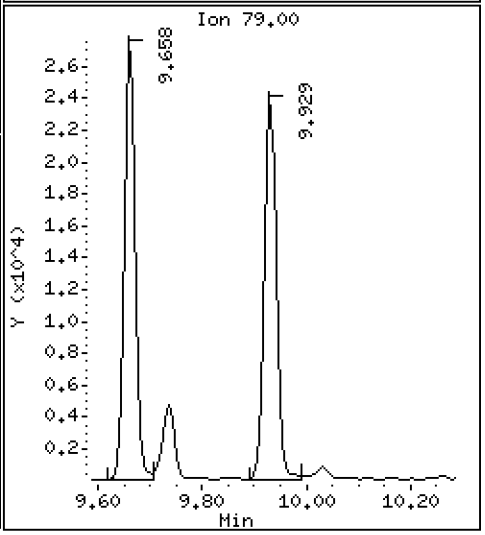


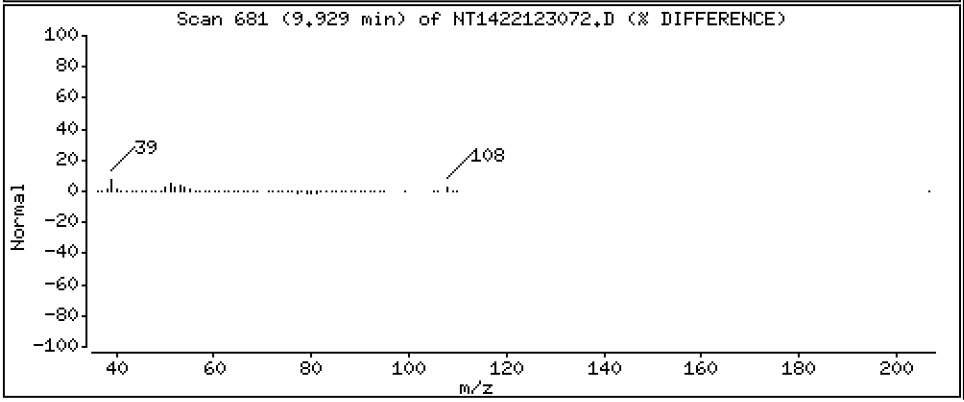












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

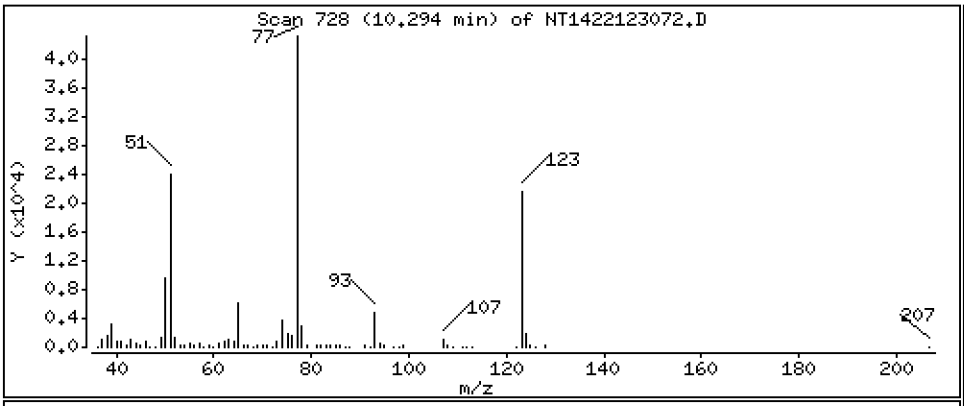
Operator: VTS

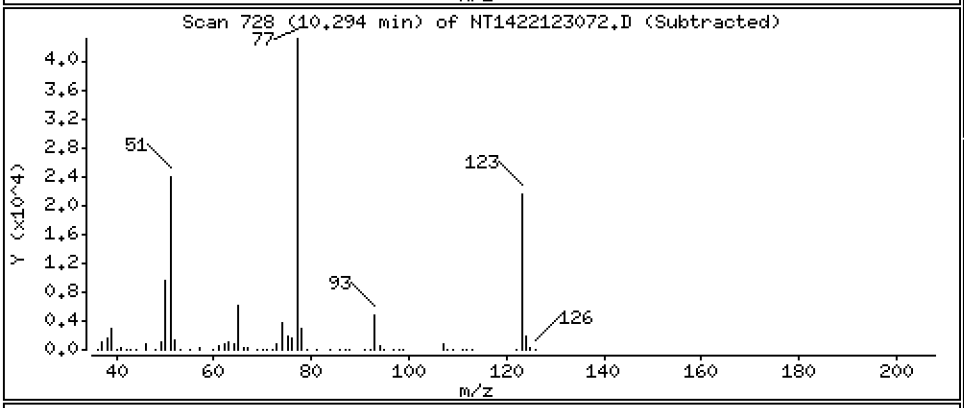
Column phase: ZB-5msi

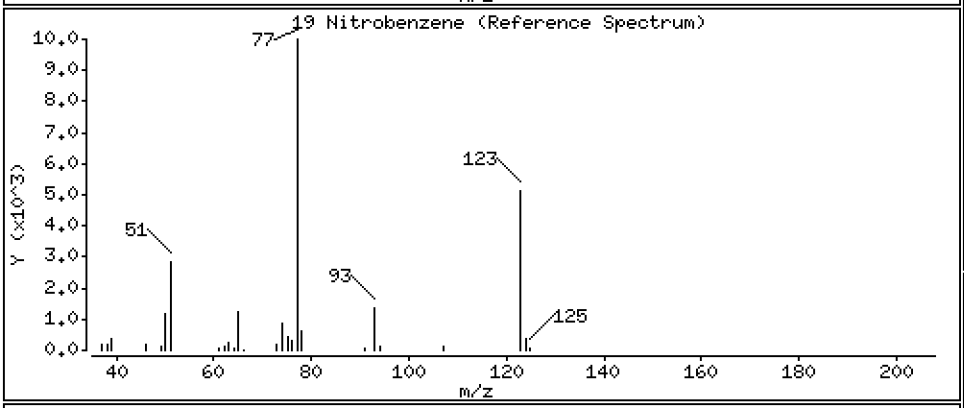
Column diameter: 0.25

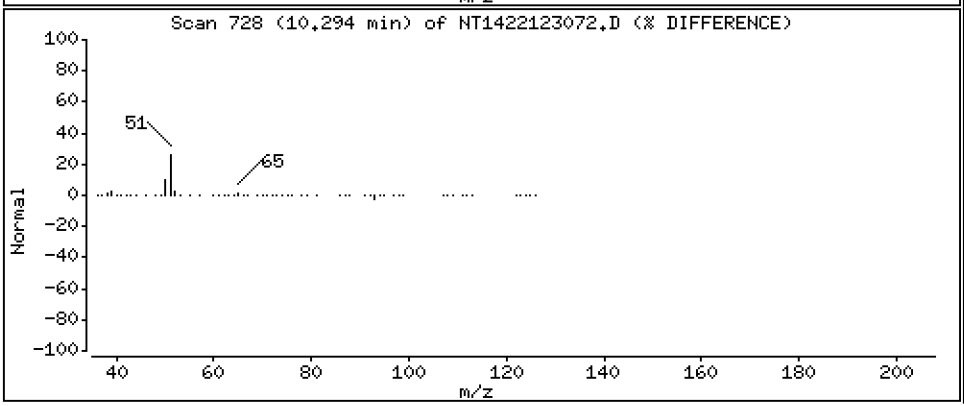
19 Nitrobenzene

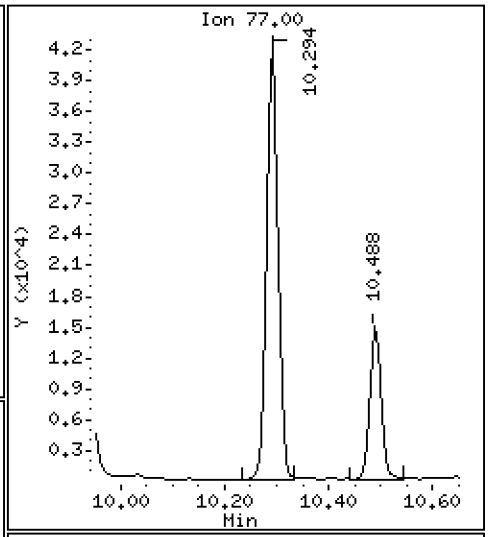
Concentration: 2.406 ug/mL

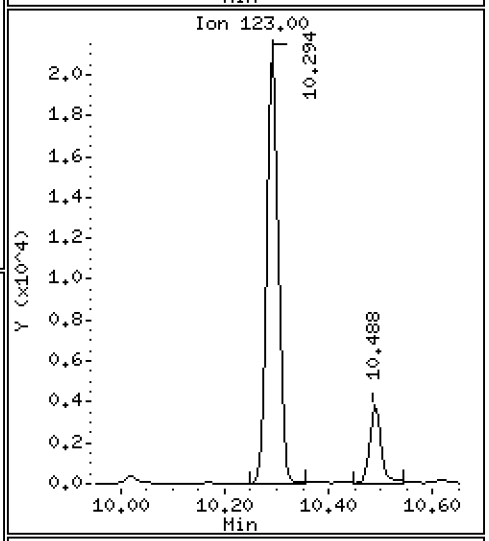


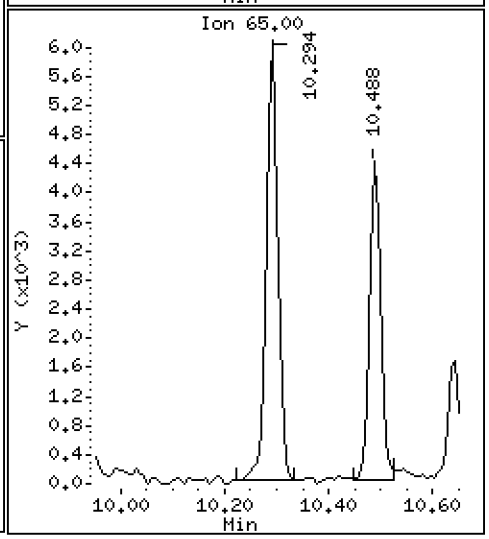












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

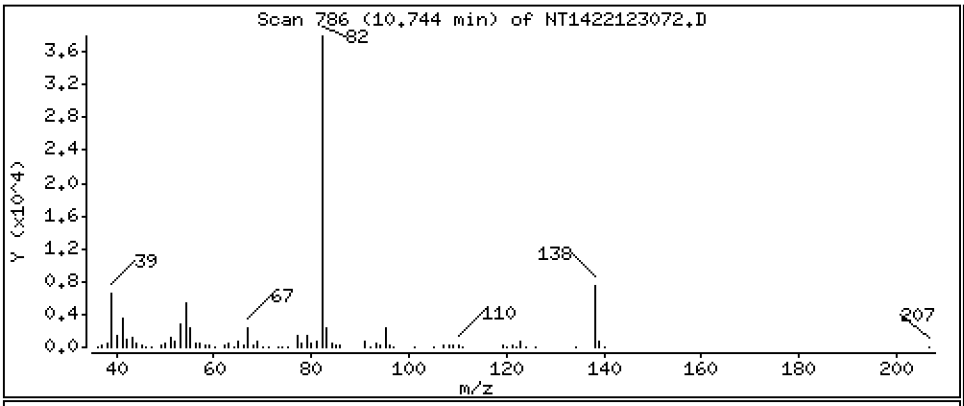
Operator: VTS

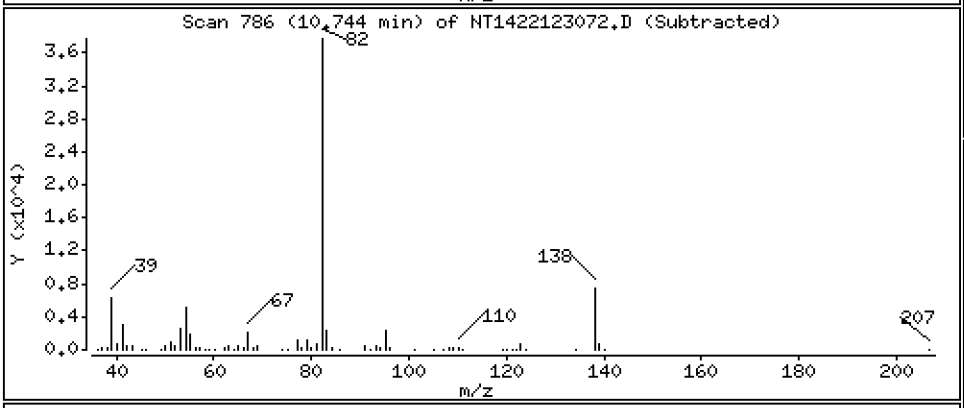
Column phase: ZB-5msi

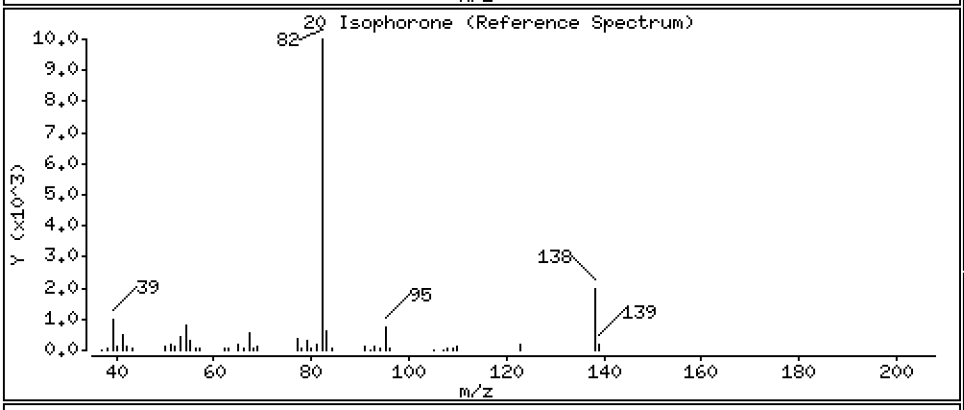
Column diameter: 0.25

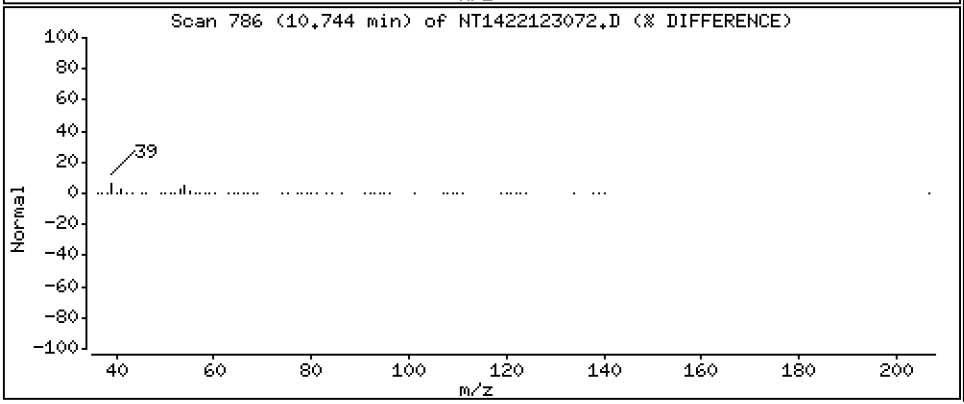
20 Isophorone

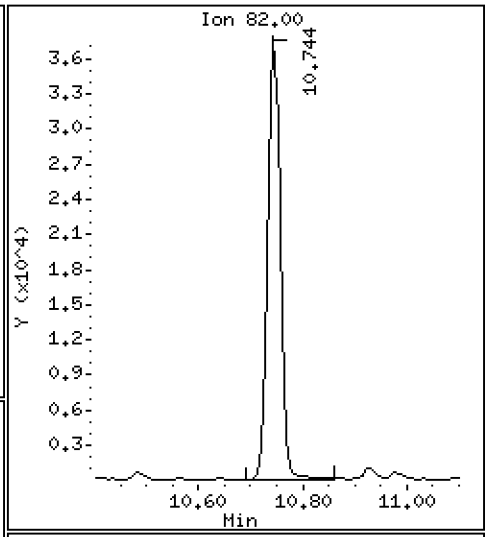
Concentration: 1.776 ug/mL

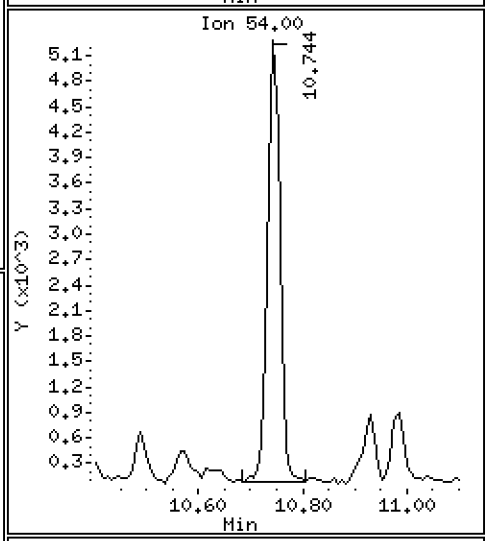


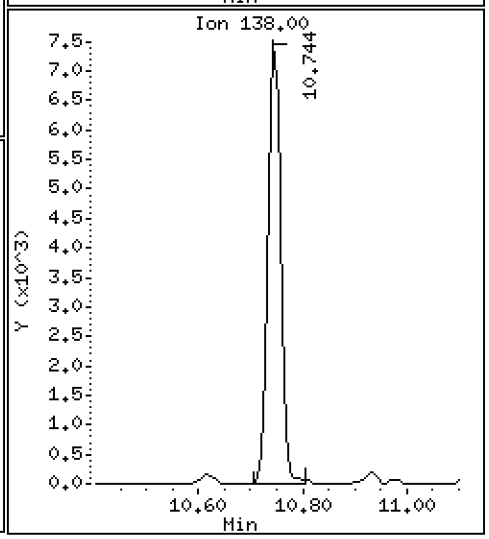












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

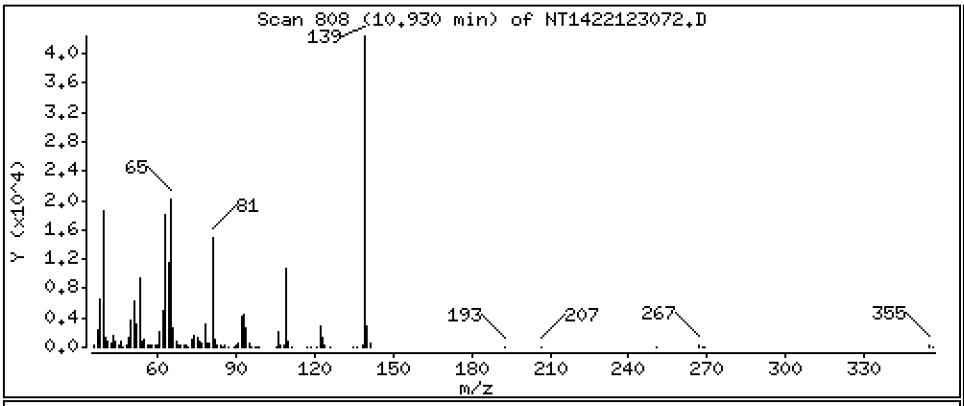
Operator: VTS

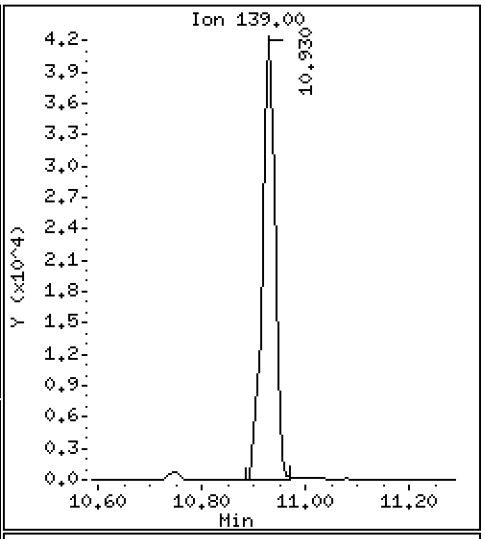
Column phase: ZB-5msi

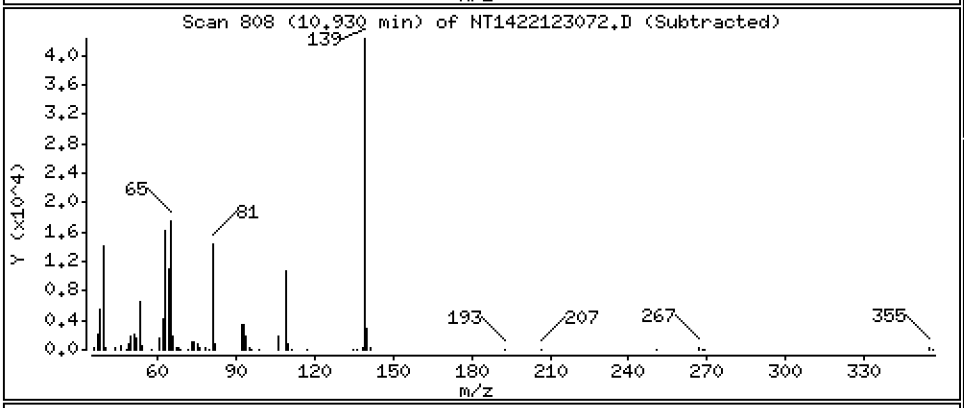
Column diameter: 0.25

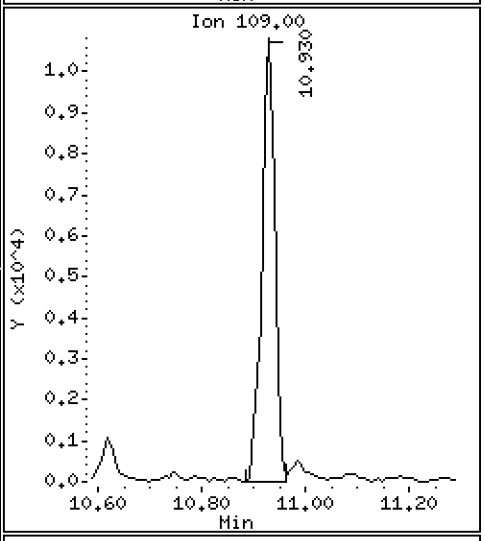
21 2-Nitrophenol

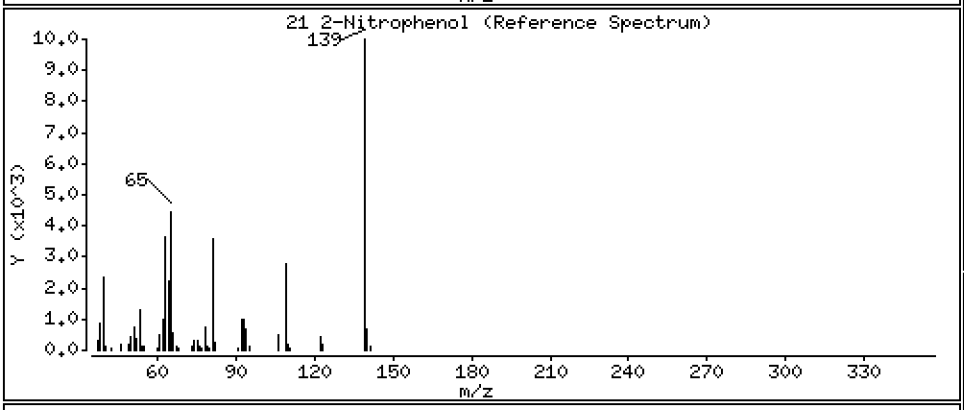
Concentration: 4.465 ug/mL

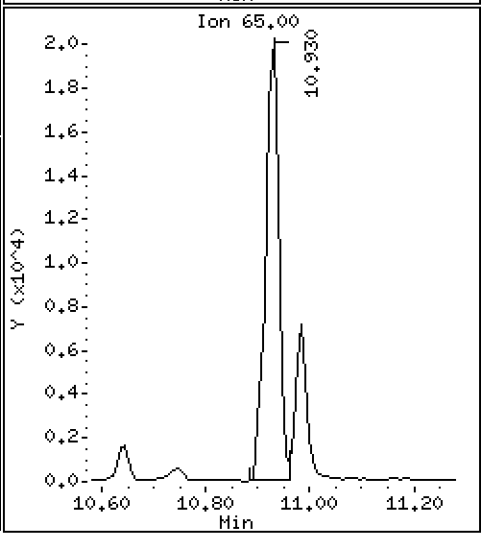


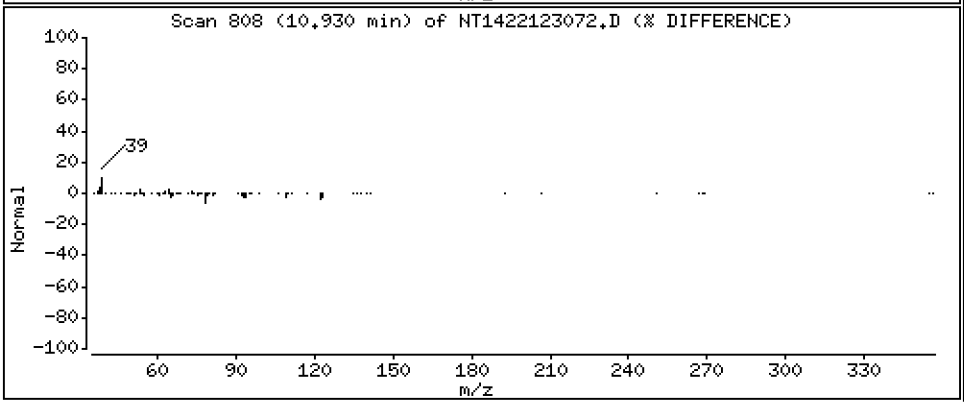












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

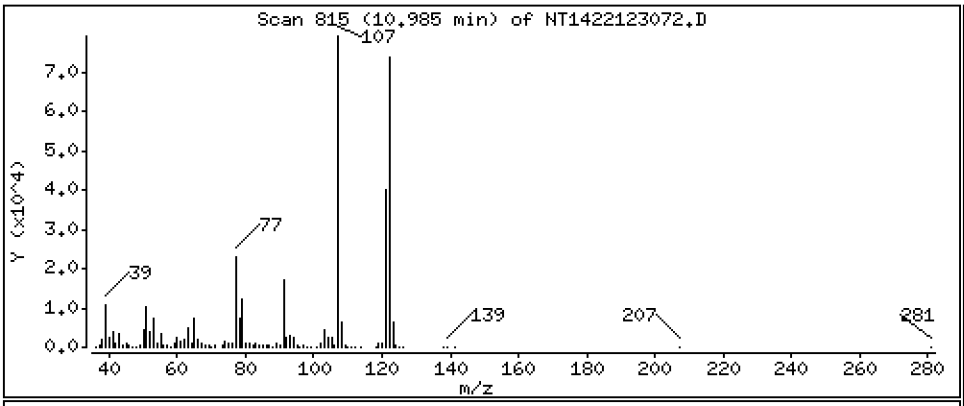
Operator: VTS

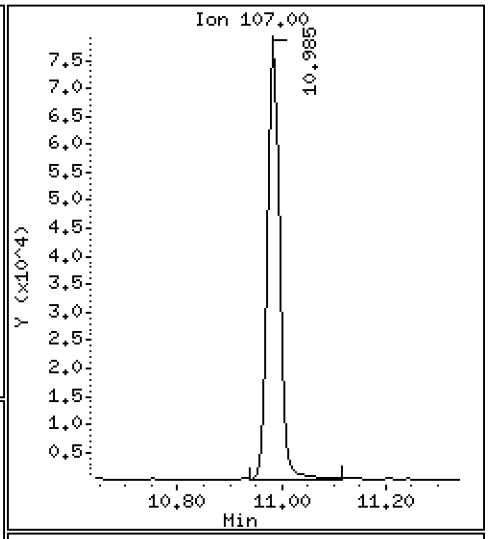
Column phase: ZB-5msi

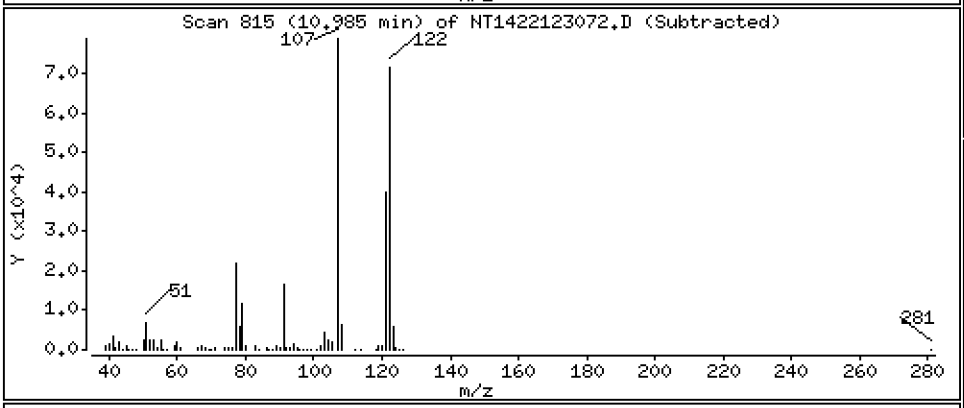
Column diameter: 0.25

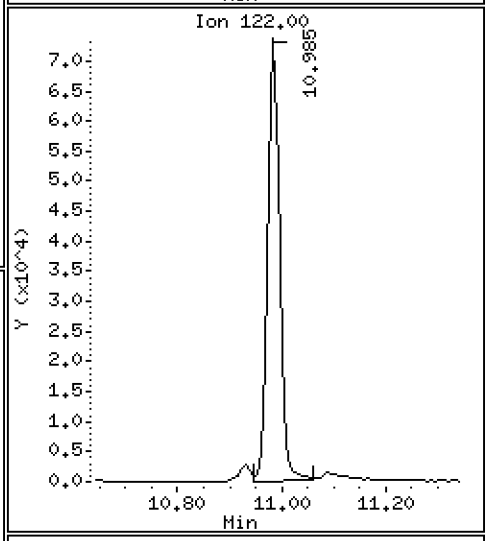
22 2,4-Dimethylphenol

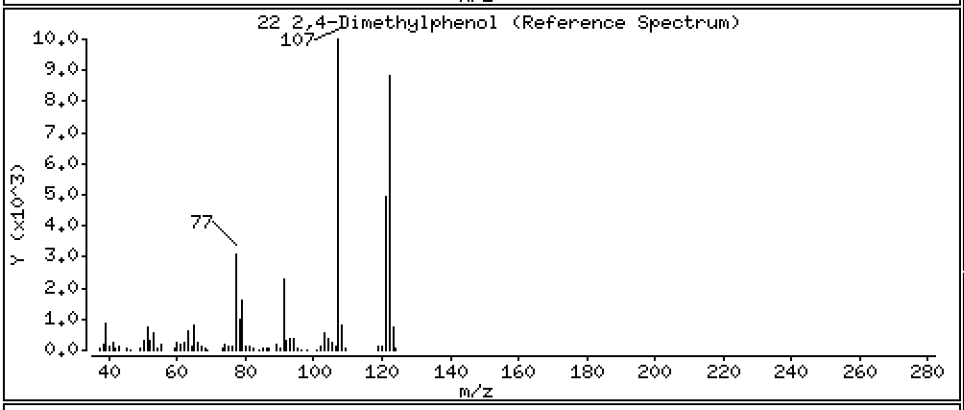
Concentration: 4.335 ug/mL

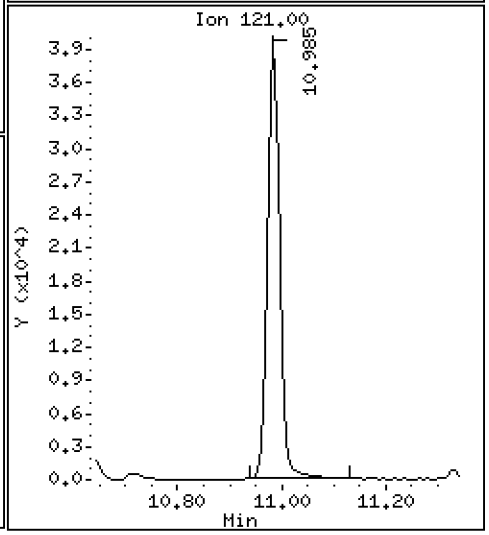


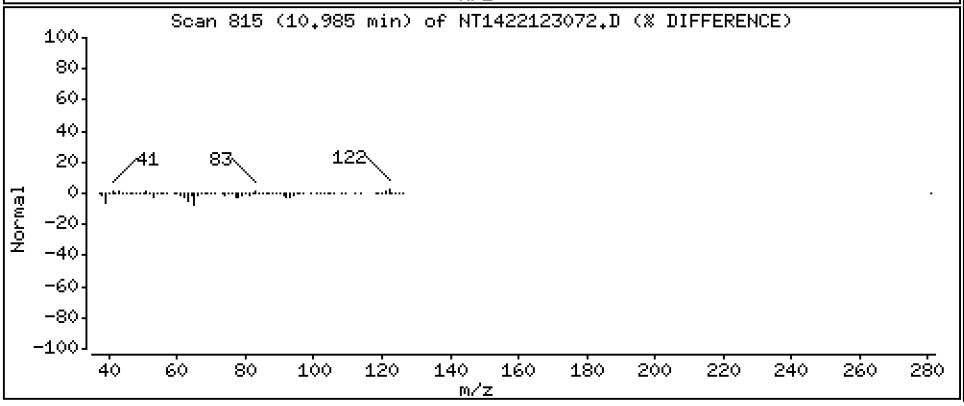












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

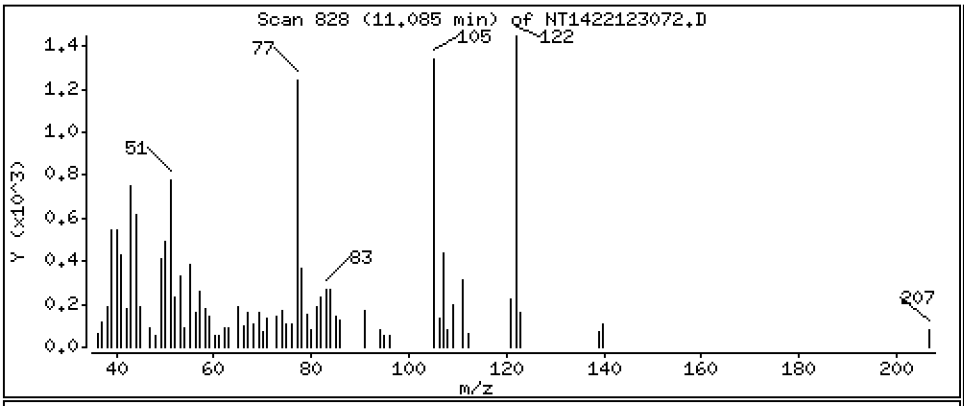
Operator: VTS

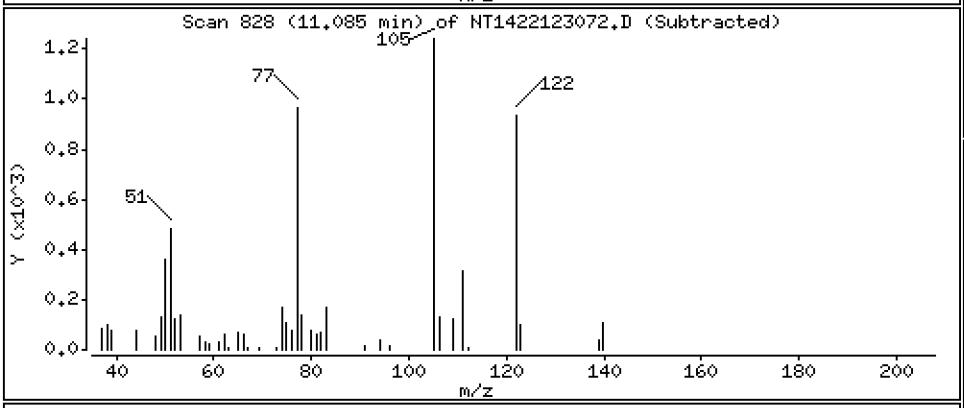
Column phase: ZB-5msi

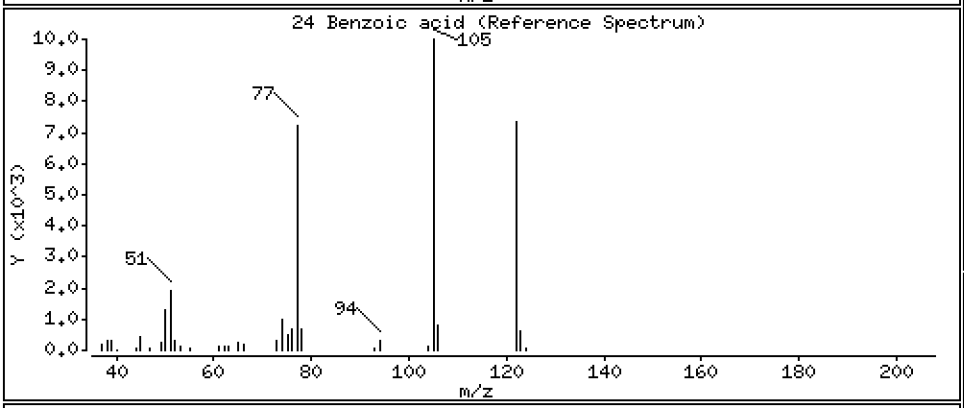
Column diameter: 0.25

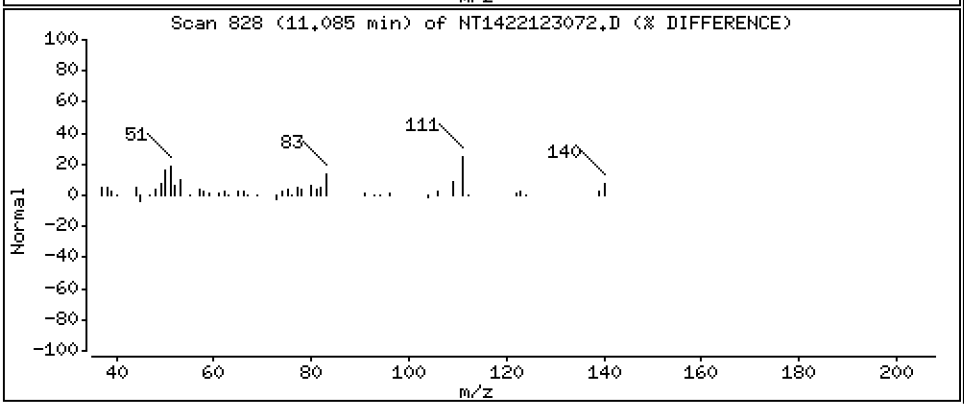
24 Benzoic acid

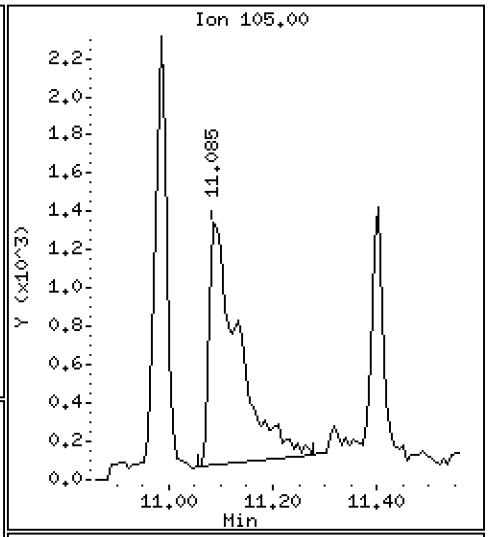
Concentration: 0.3008 ug/mL

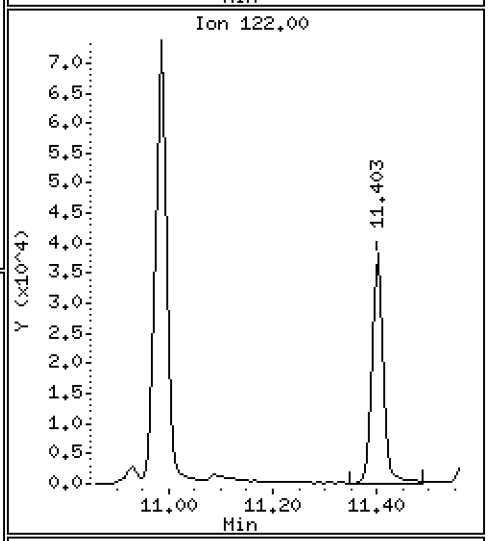


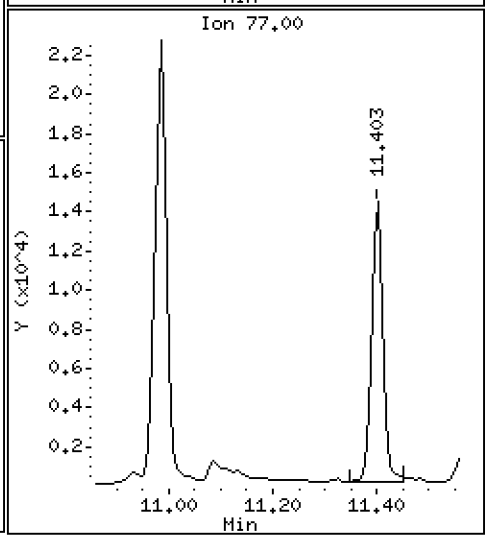












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

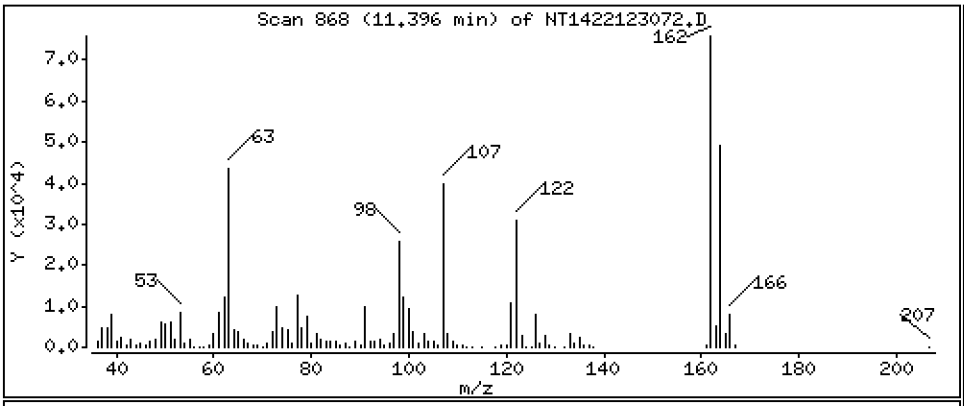
Operator: VTS

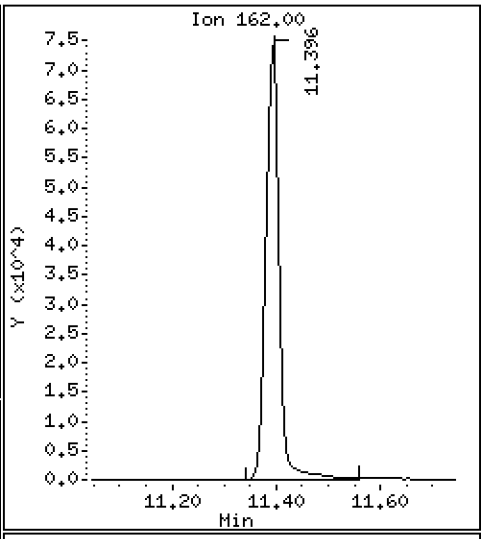
Column phase: ZB-5msi

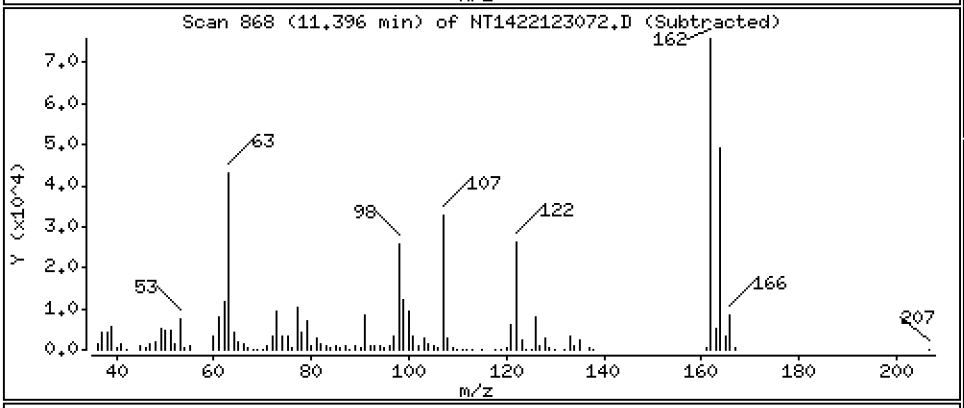
Column diameter: 0.25

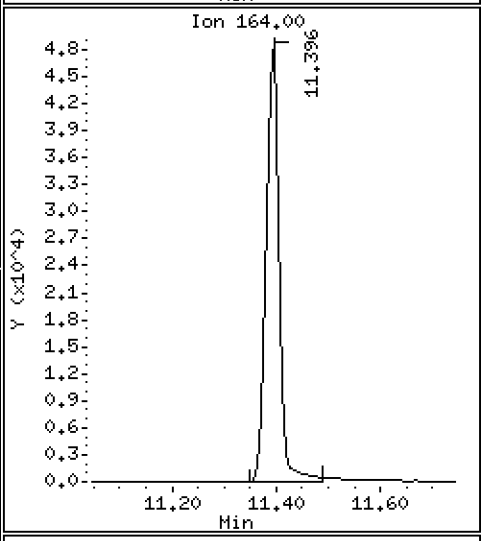
25 2,4-Dichlorophenol

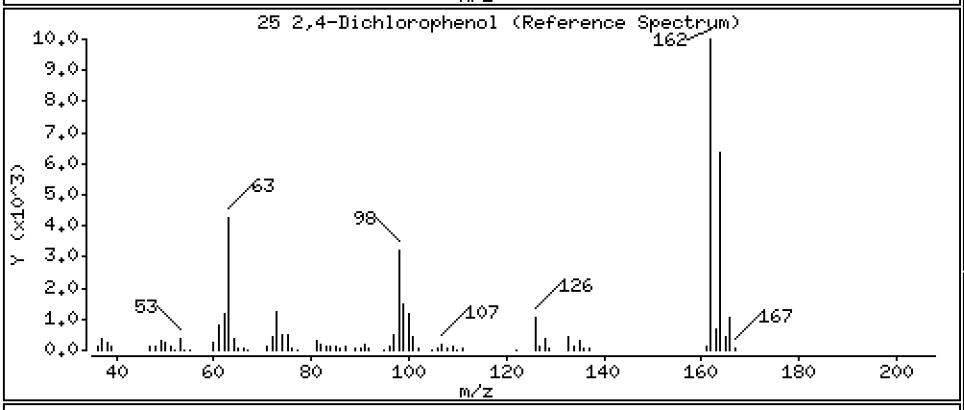
Concentration: 5.894 ug/mL

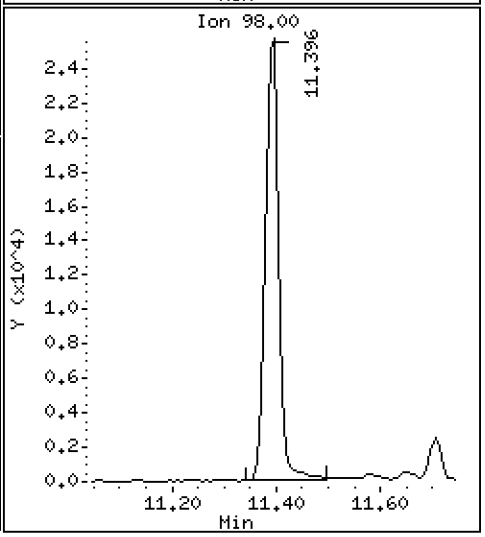


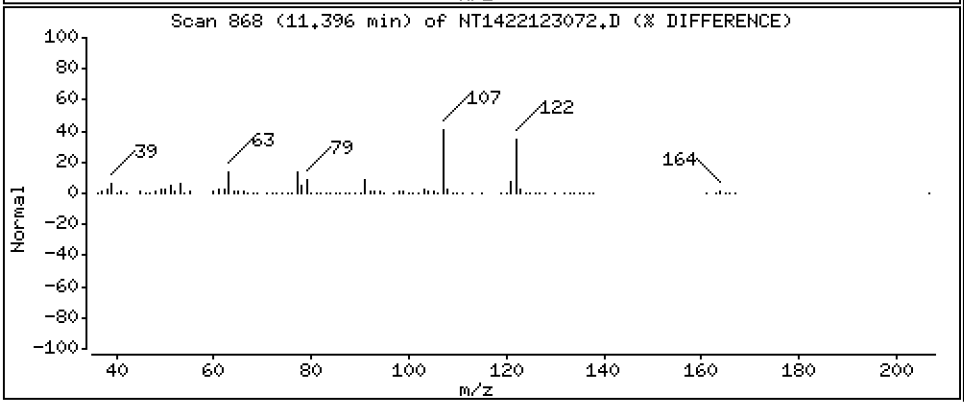












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

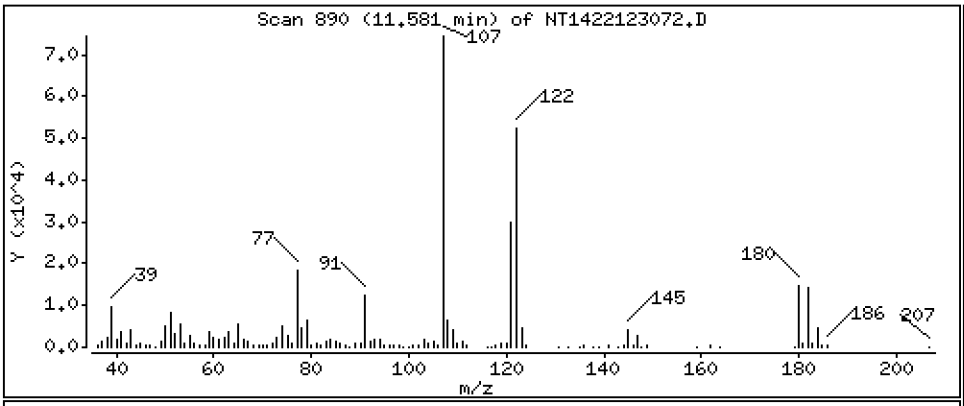
Operator: VTS

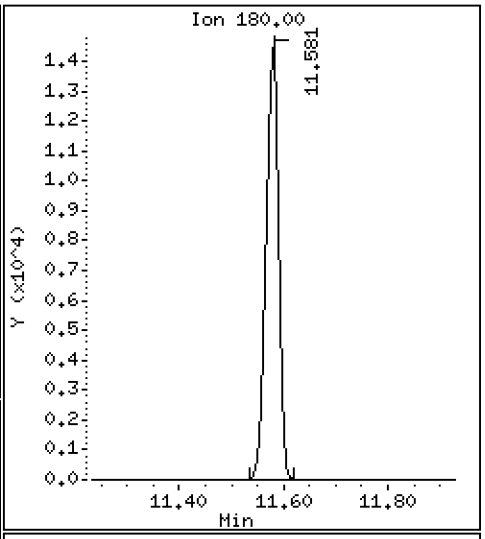
Column phase: ZB-5msi

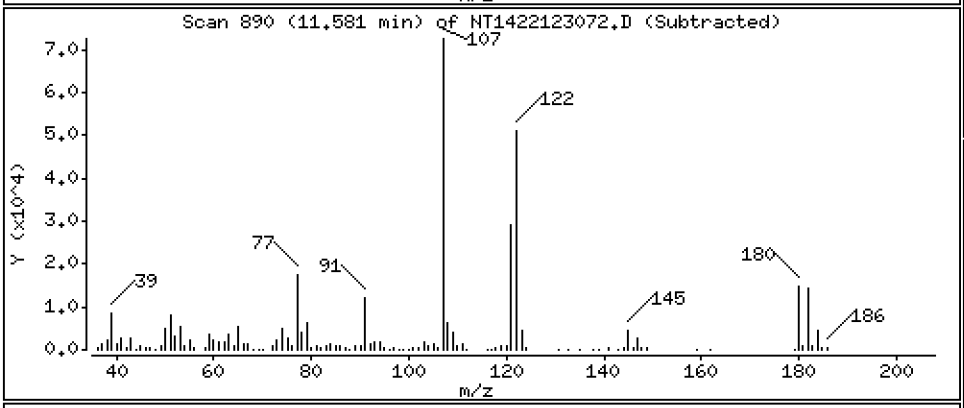
Column diameter: 0.25

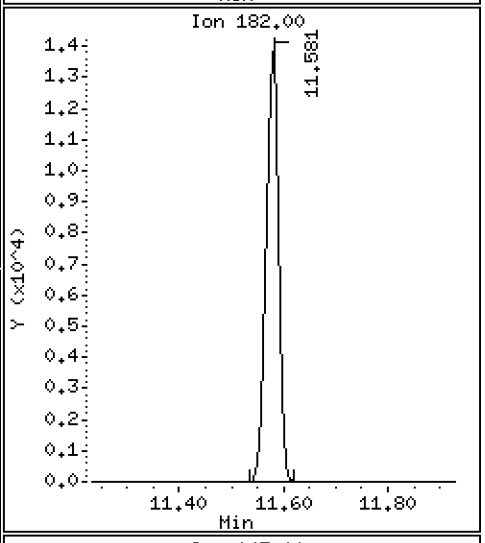
26 1,2,4-Trichlorobenzene

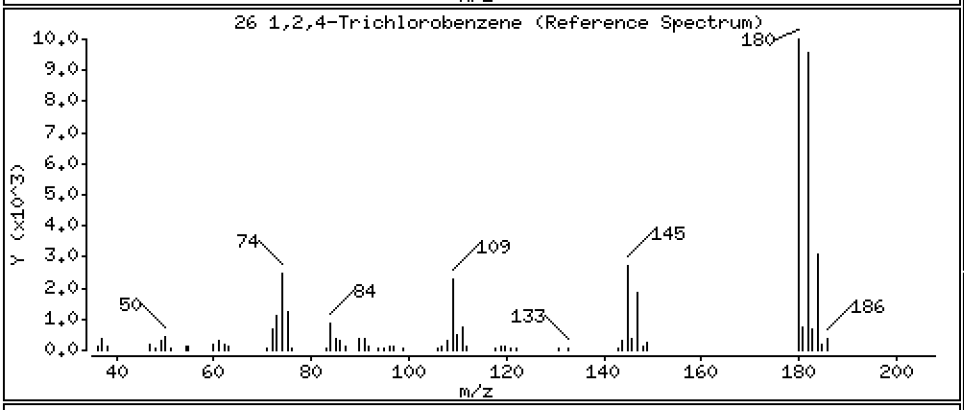
Concentration: 0.9266 ug/mL

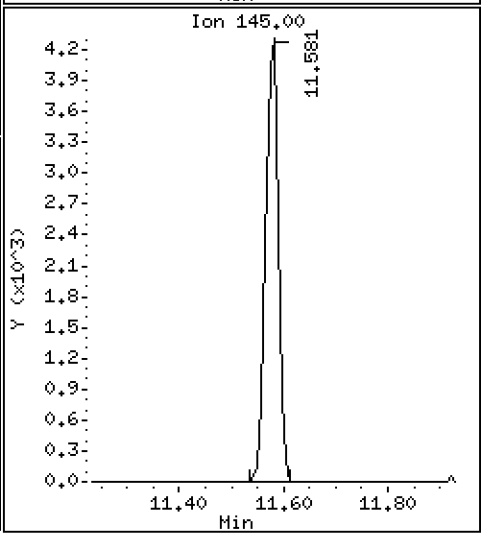


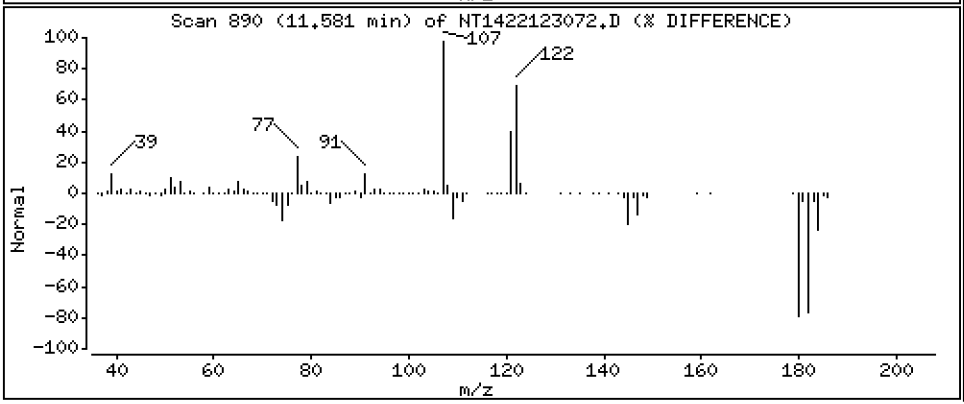












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

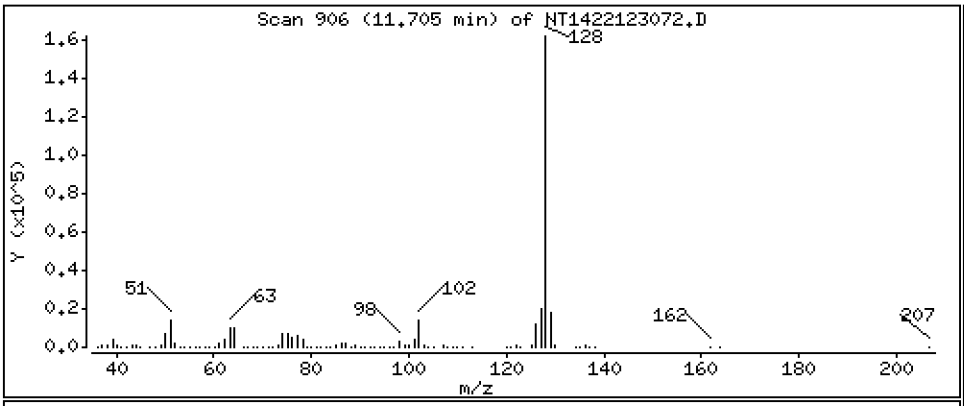
Operator: VTS

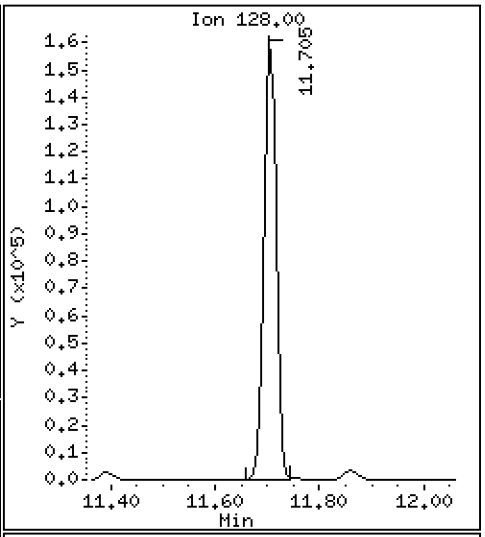
Column phase: ZB-5msi

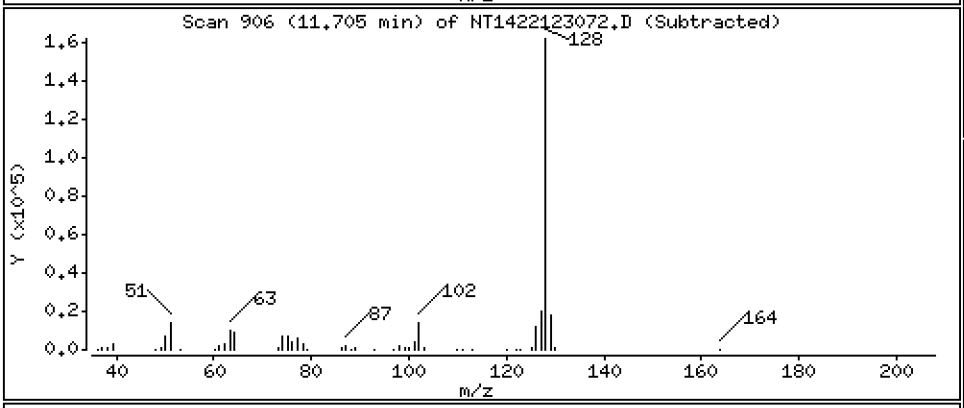
Column diameter: 0.25

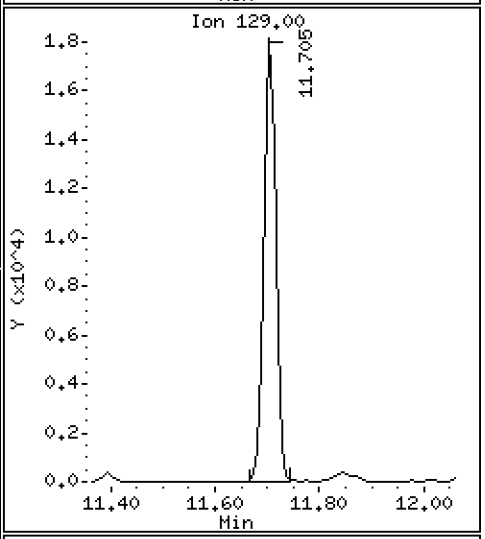
28 Naphthalene

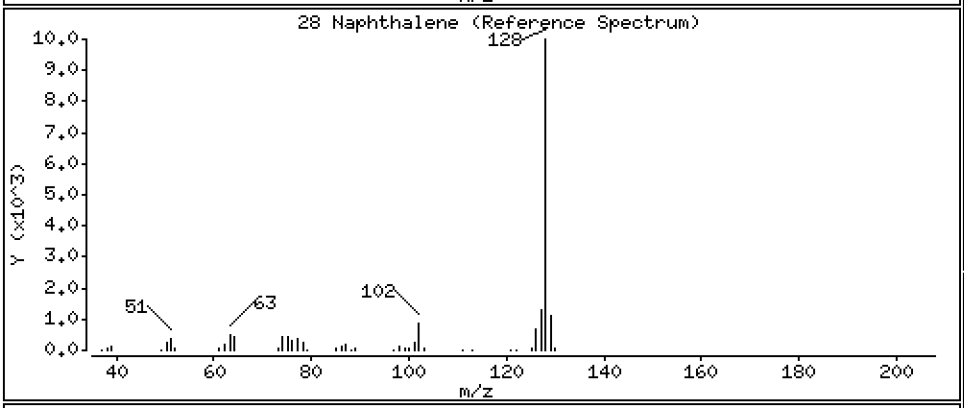
Concentration: 3.162 ug/mL

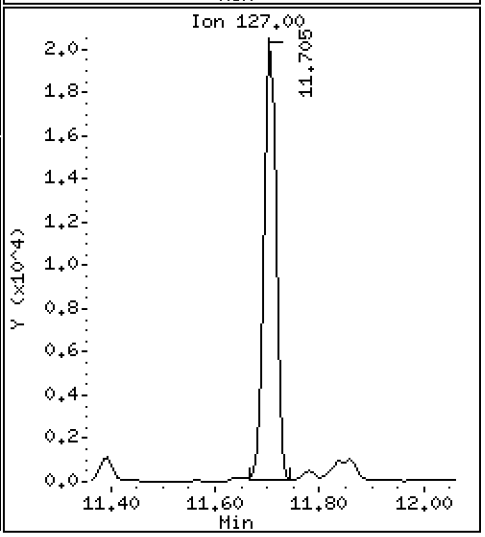


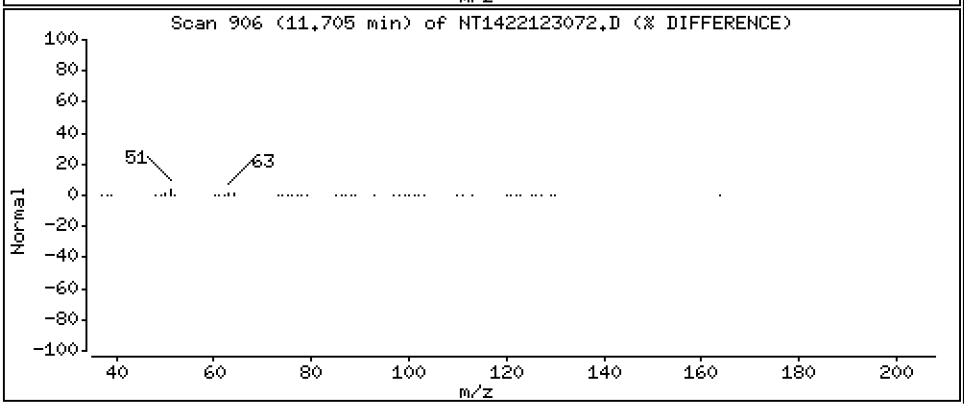












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

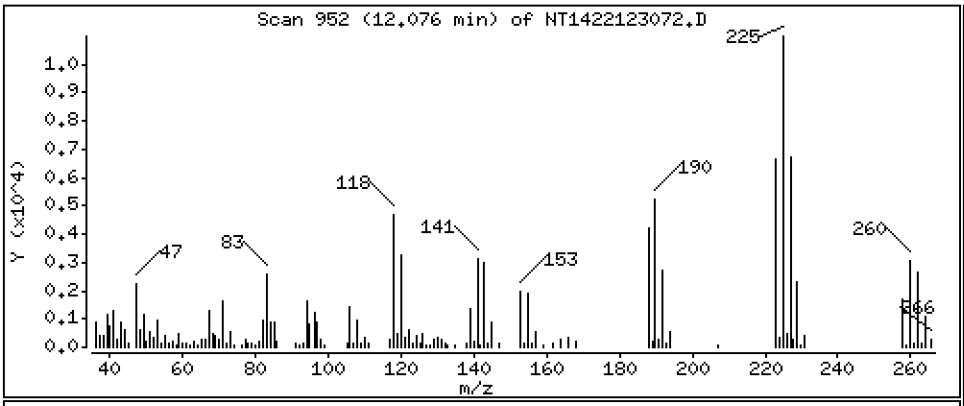
Operator: VTS

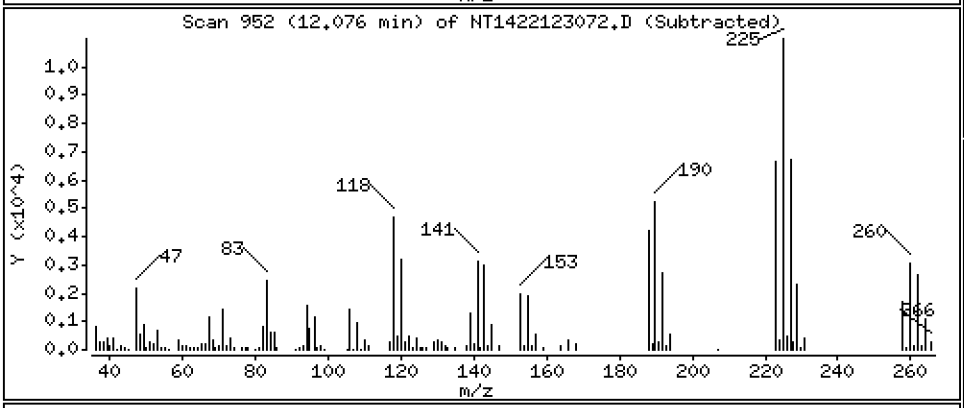
Column phase: ZB-5msi

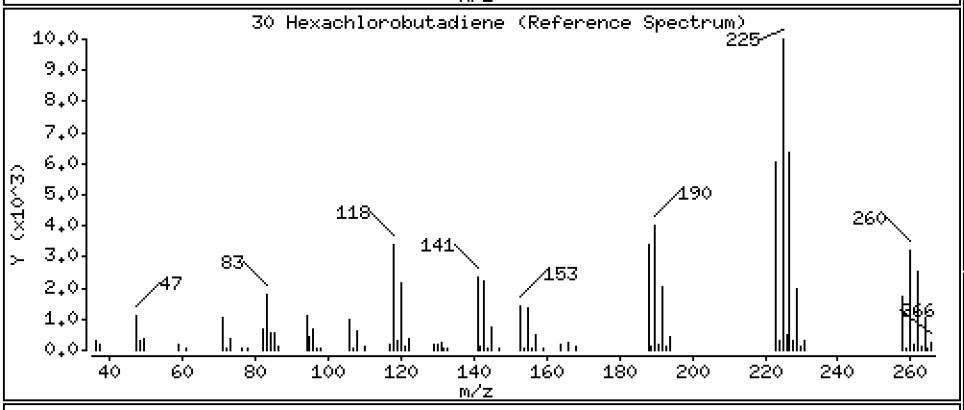
Column diameter: 0.25

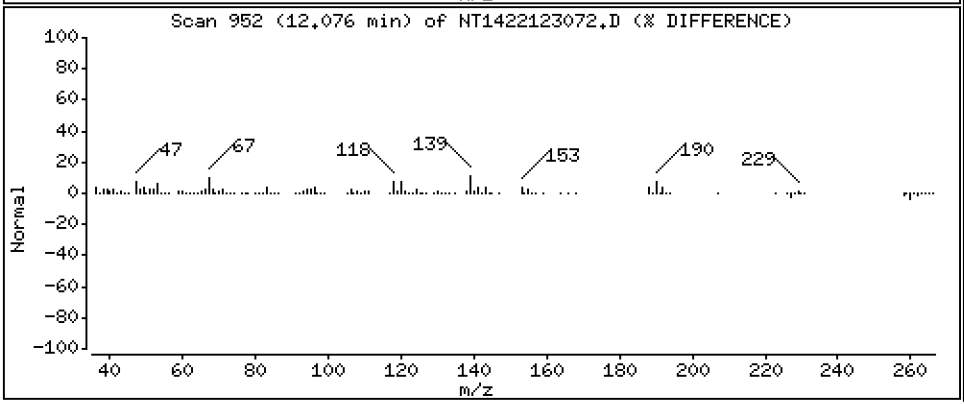
30 Hexachlorobutadiene

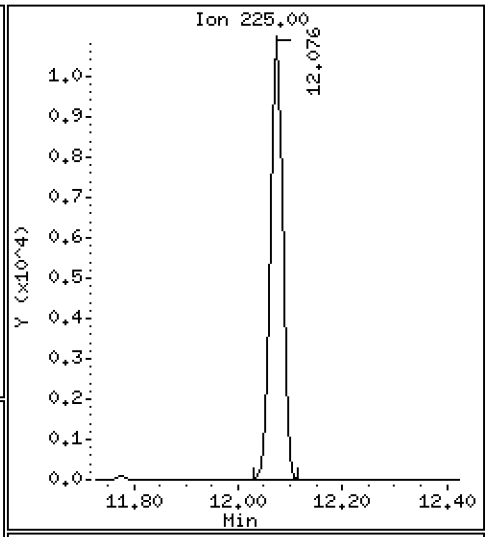
Concentration: 1.357 ug/mL

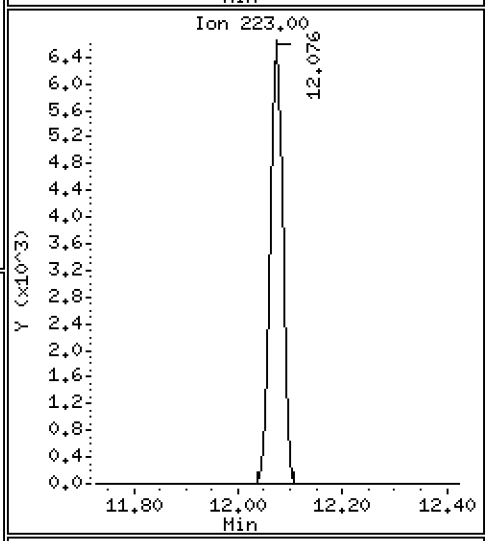


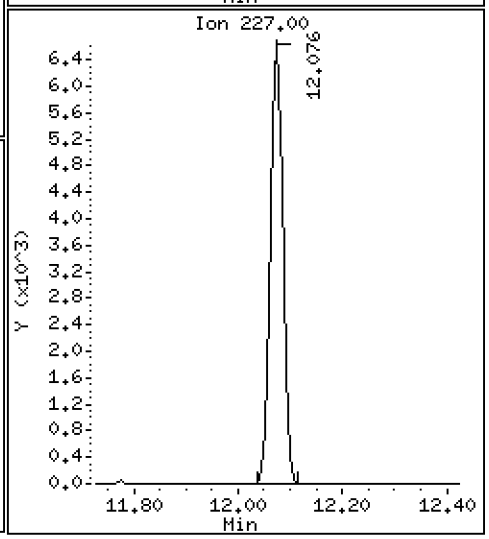












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

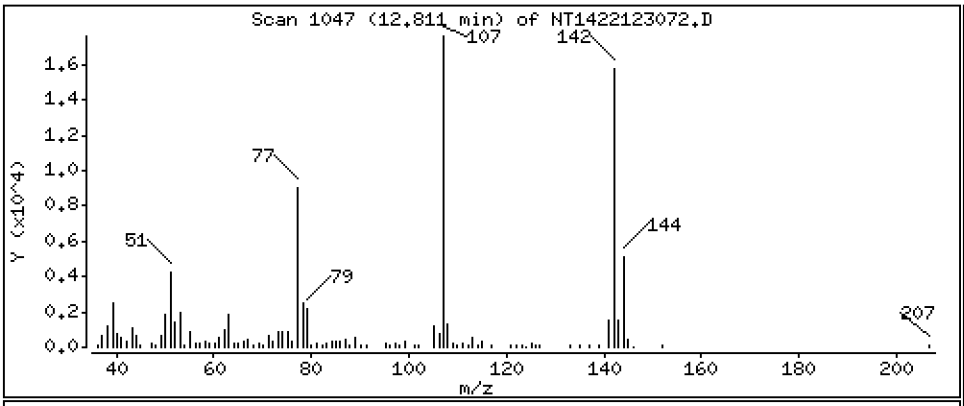
Operator: VTS

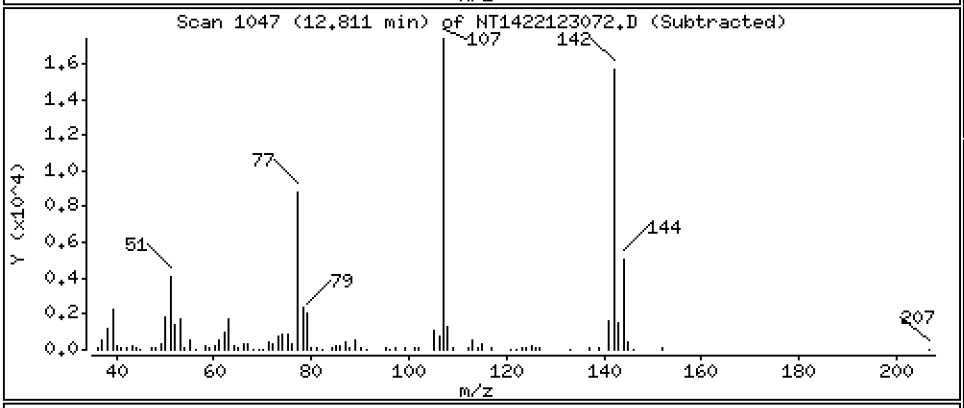
Column phase: ZB-5msi

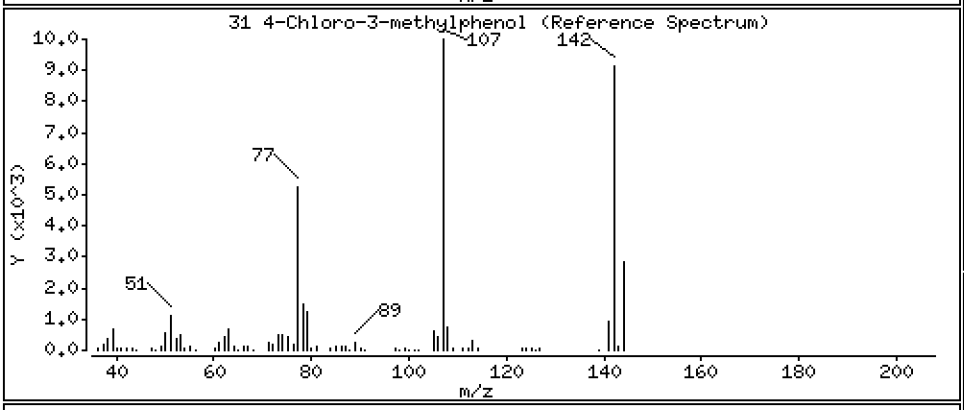
Column diameter: 0.25

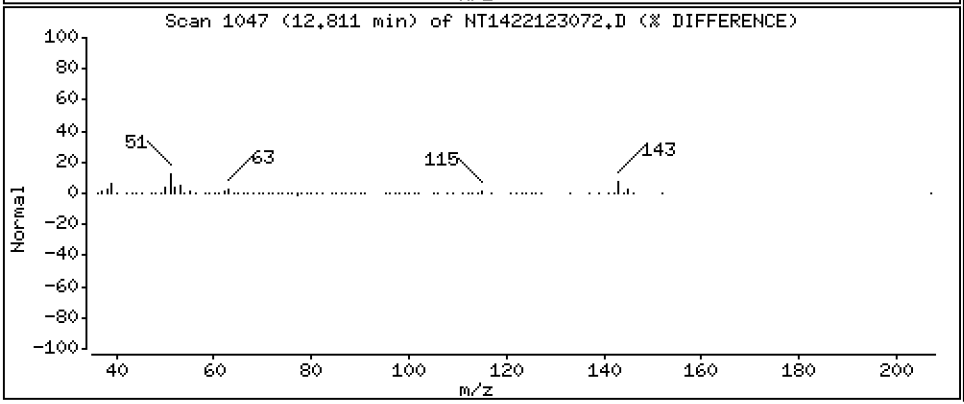
31 4-Chloro-3-methylphenol

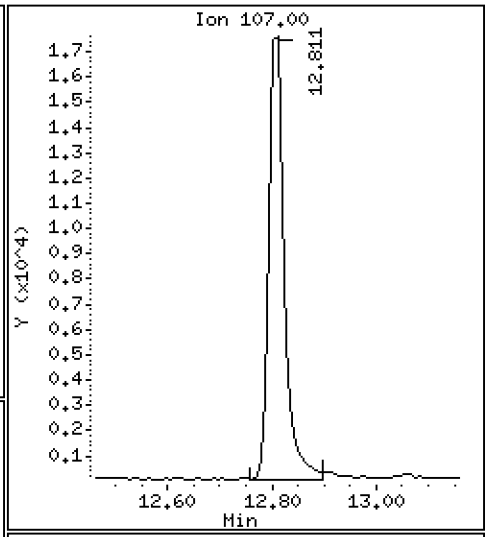
Concentration: 1.572 ug/mL

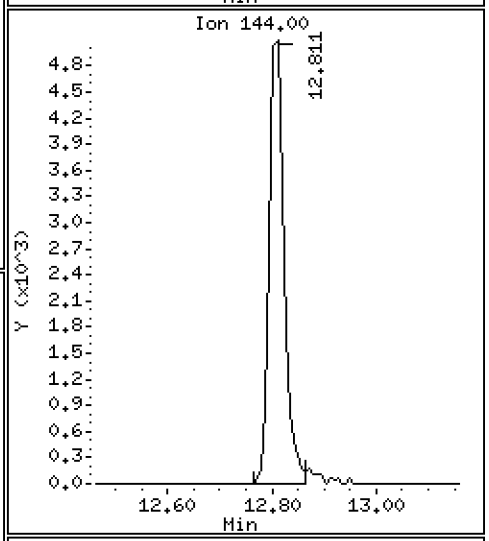


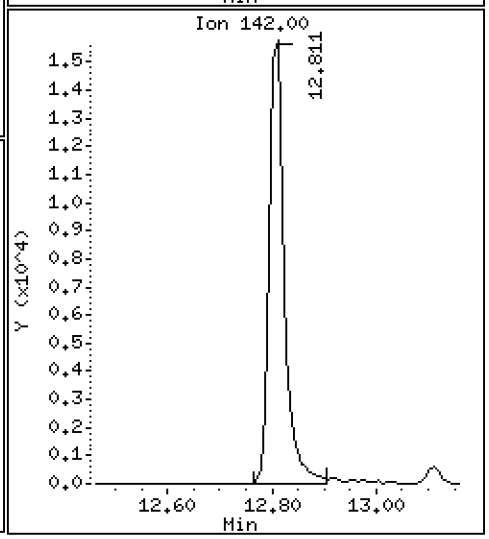












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

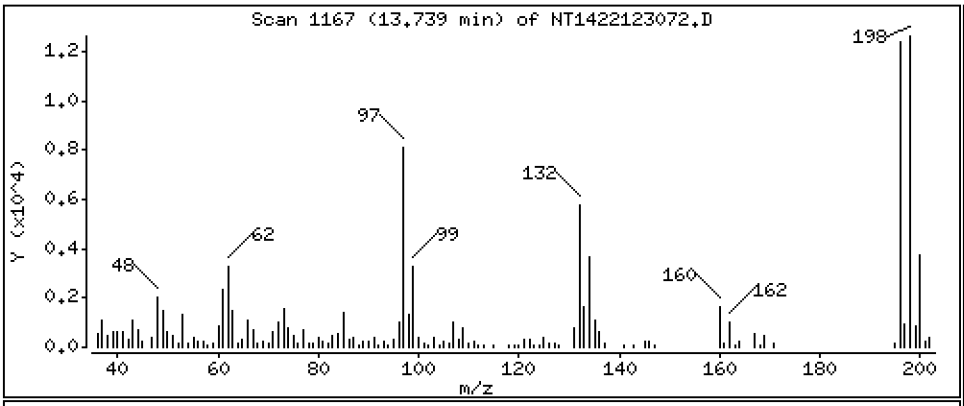
Operator: VTS

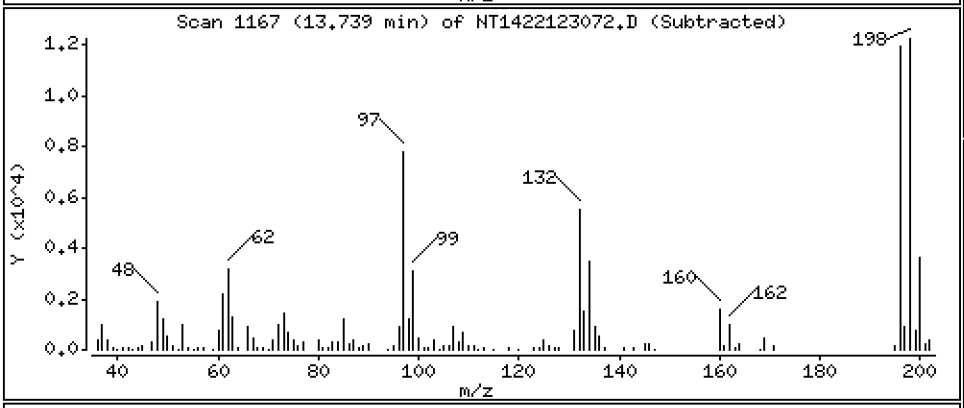
Column phase: ZB-5msi

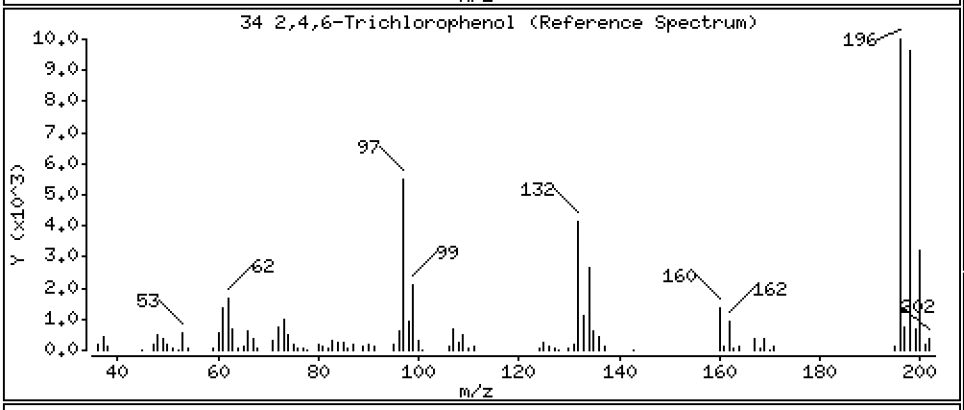
Column diameter: 0.25

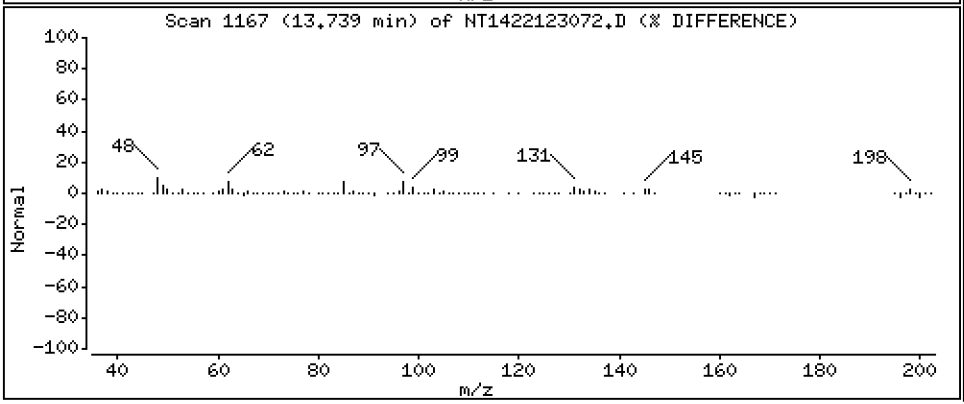
34 2,4,6-Trichlorophenol

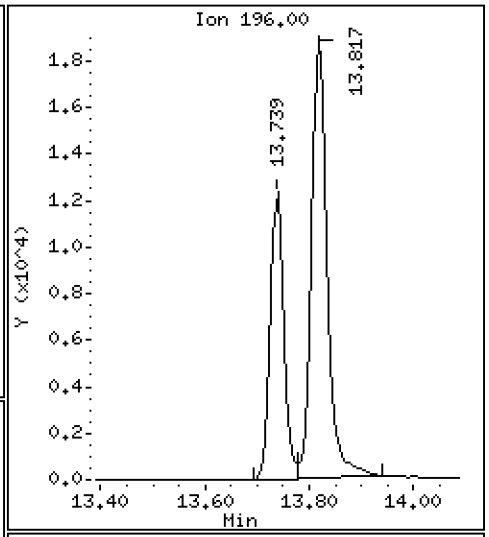
Concentration: 1.596 ug/mL

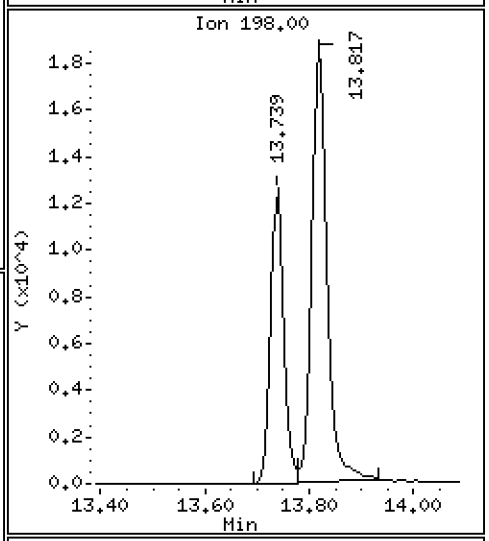


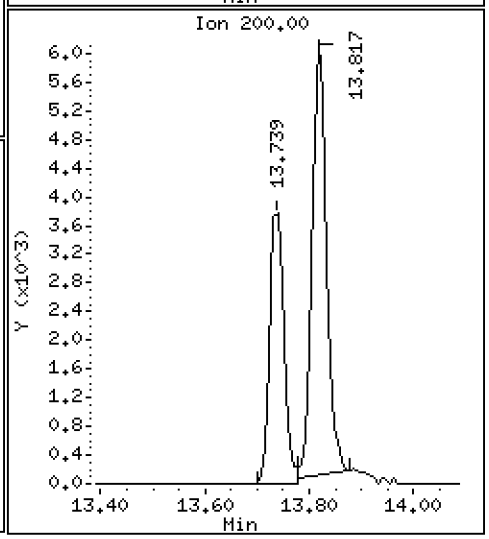












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

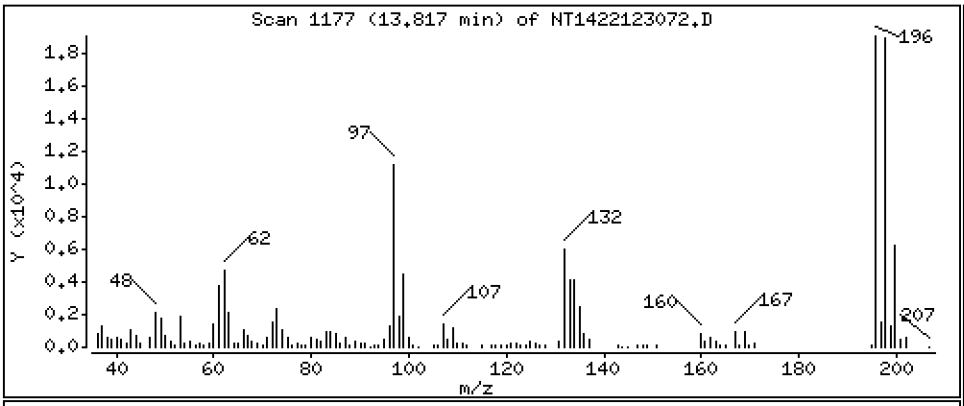
Operator: VTS

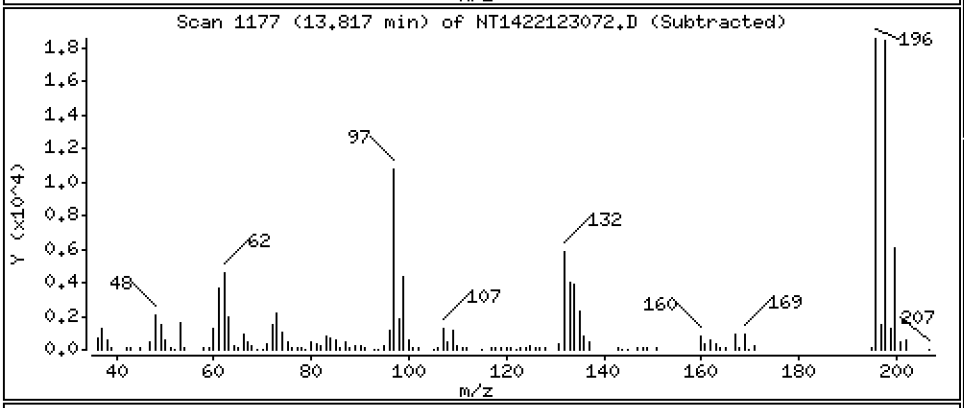
Column phase: ZB-5msi

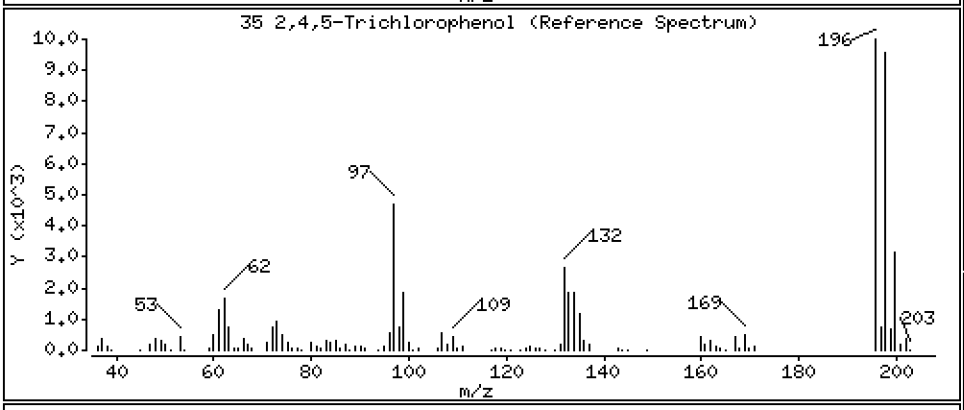
Column diameter: 0.25

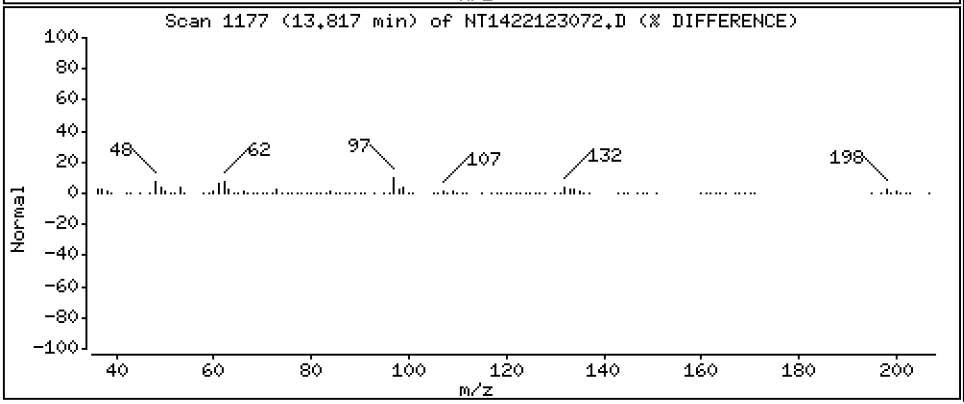
35 2,4,5-Trichlorophenol

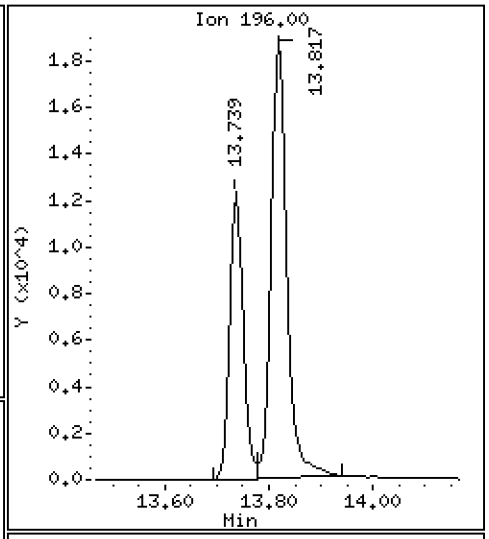
Concentration: 2.450 ug/mL

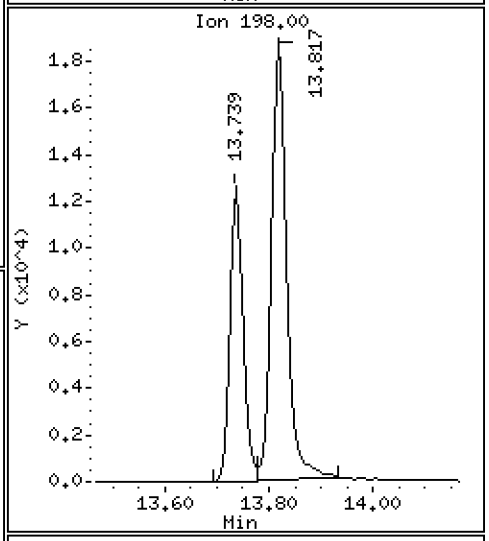


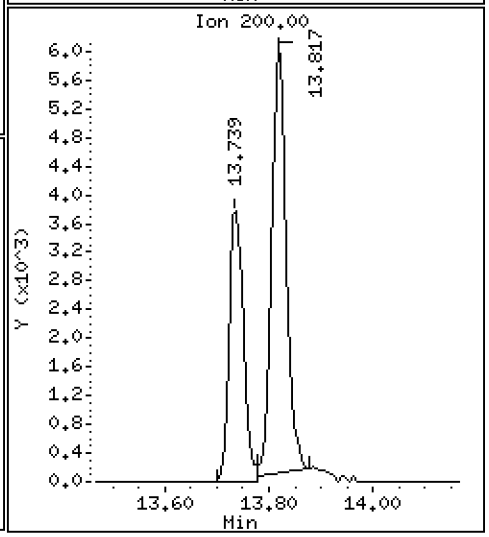












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

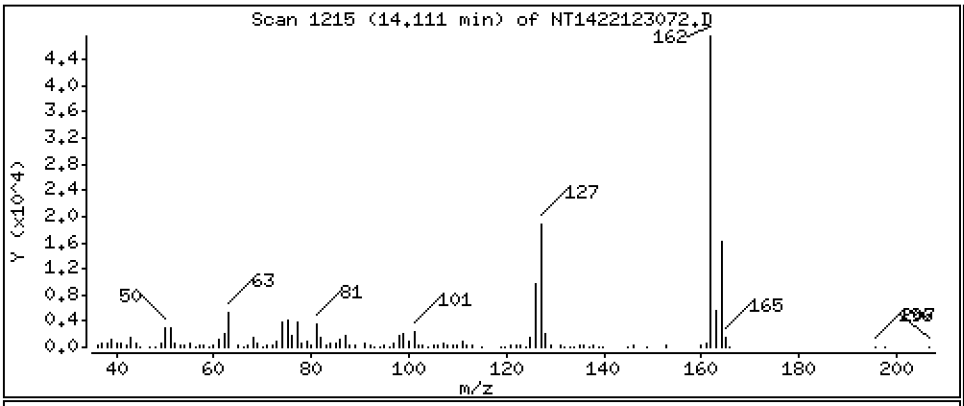
Operator: VTS

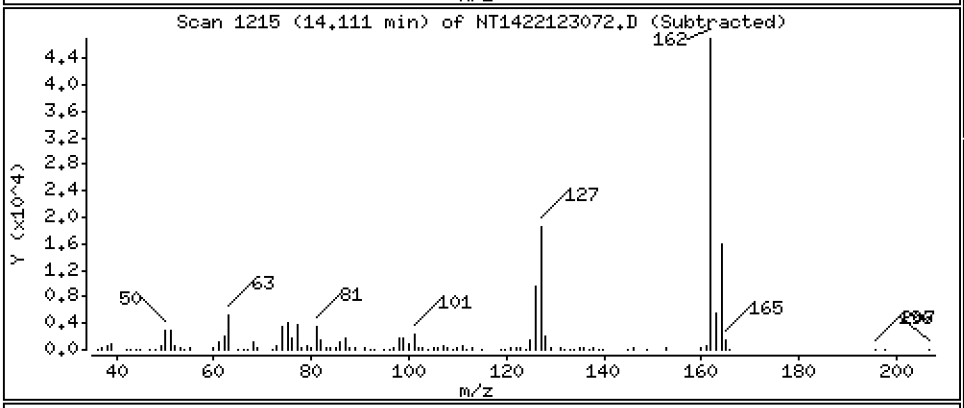
Column phase: ZB-5msi

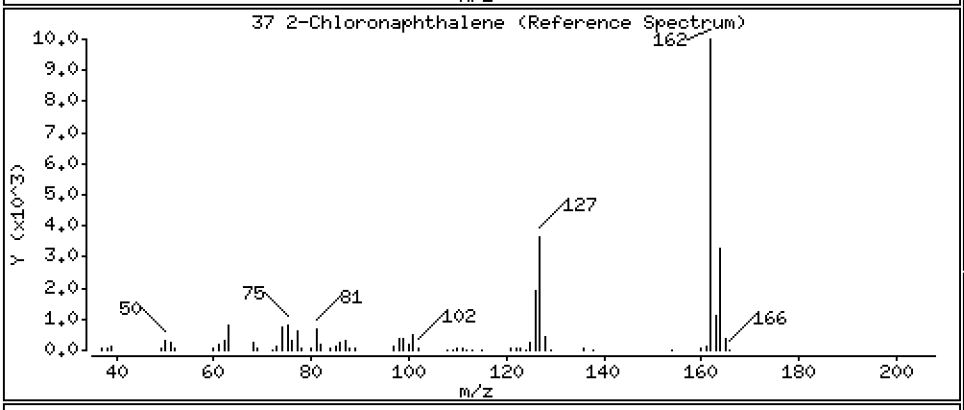
Column diameter: 0.25

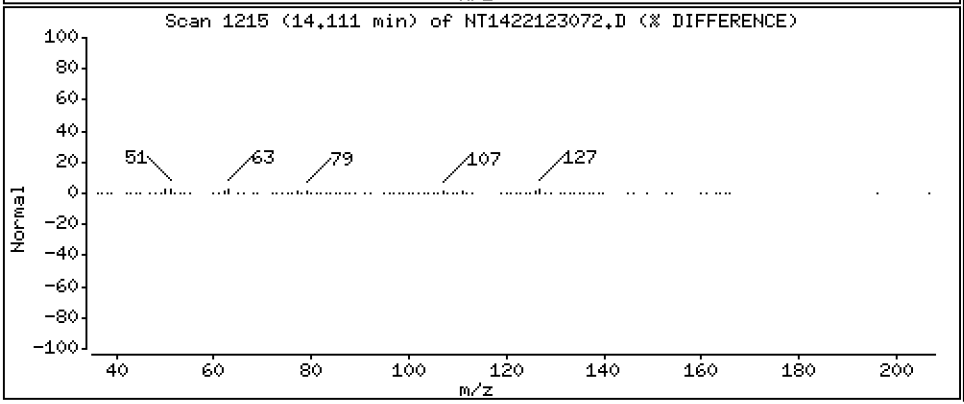
37 2-Chloronaphthalene

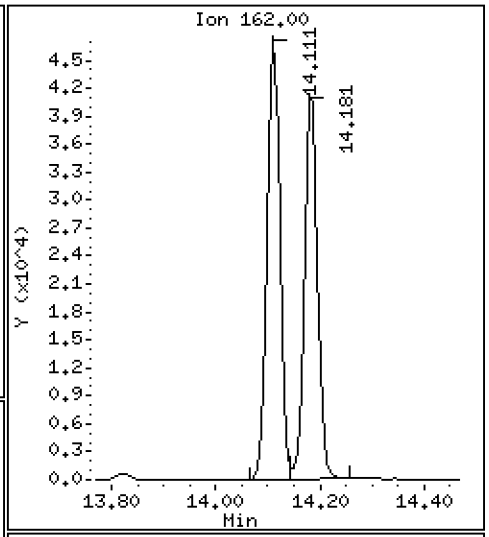
Concentration: 1.659 ug/mL

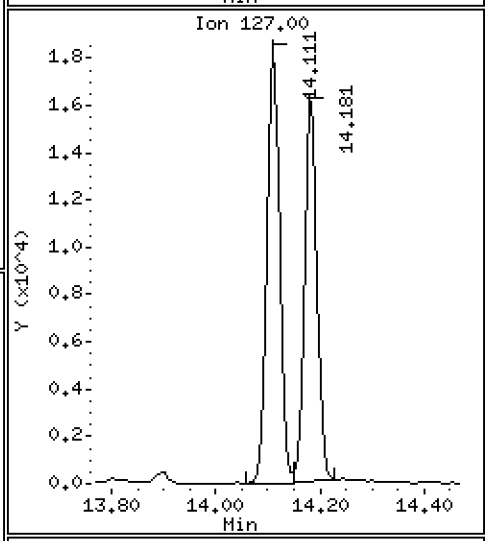


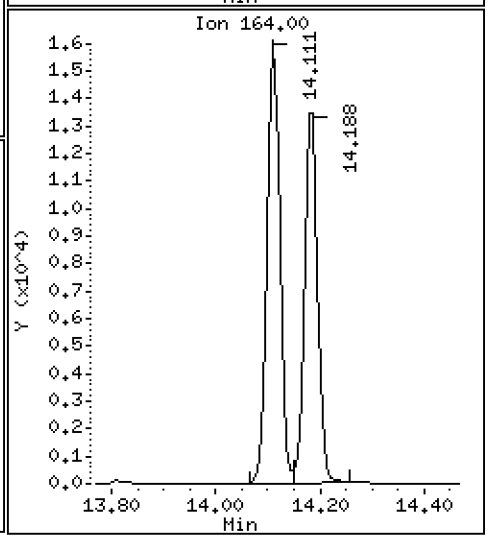












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

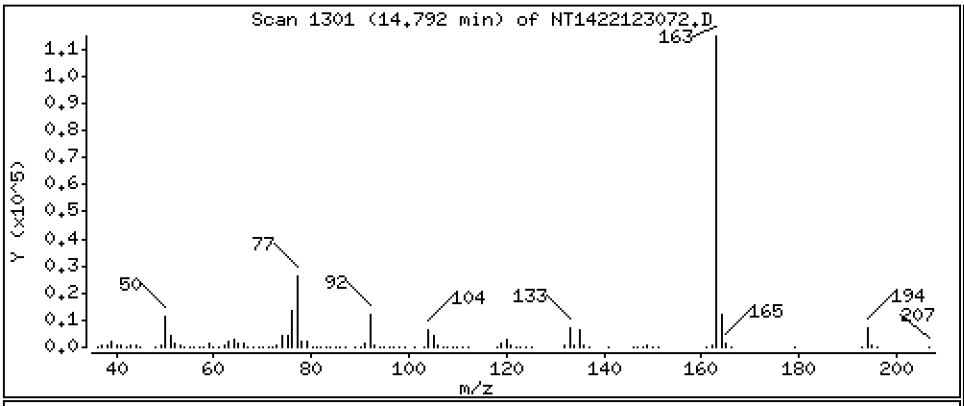
Operator: VTS

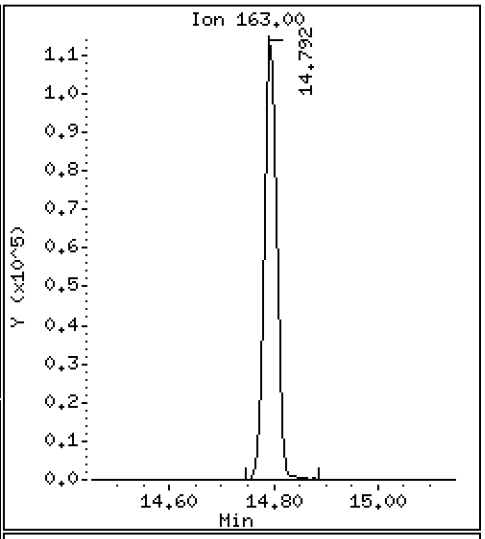
Column phase: ZB-5msi

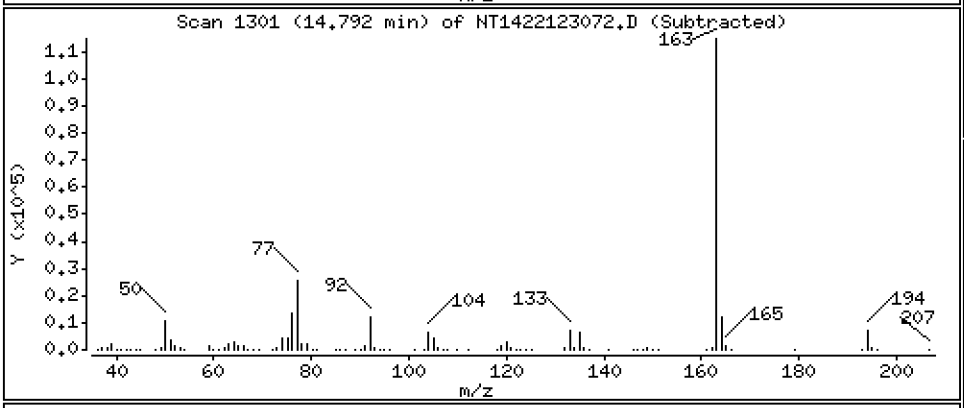
Column diameter: 0.25

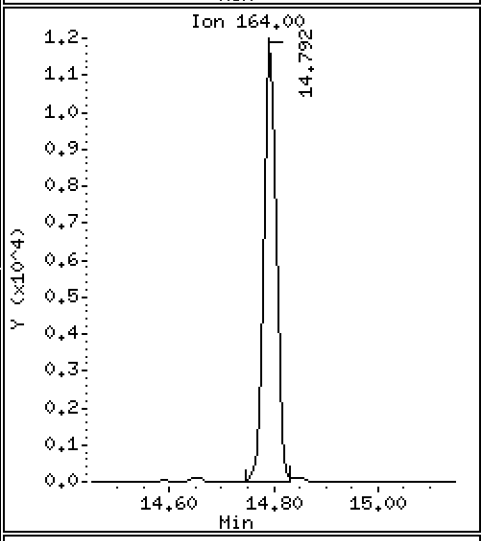
39 Dimethylphthalate

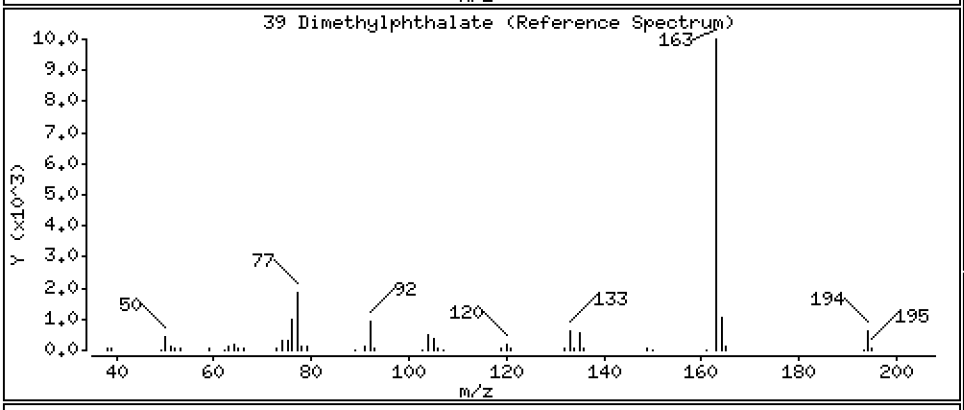
Concentration: 4.053 ug/mL

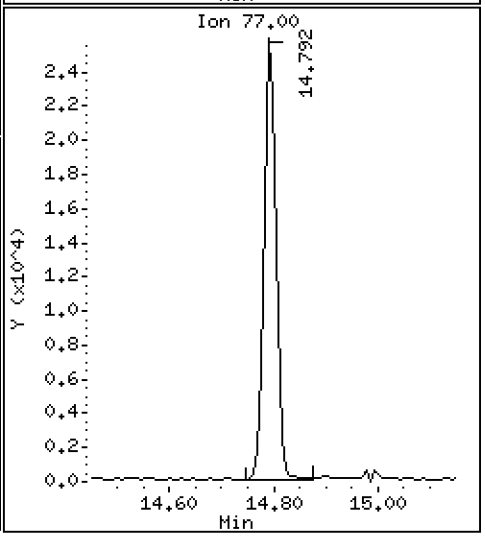


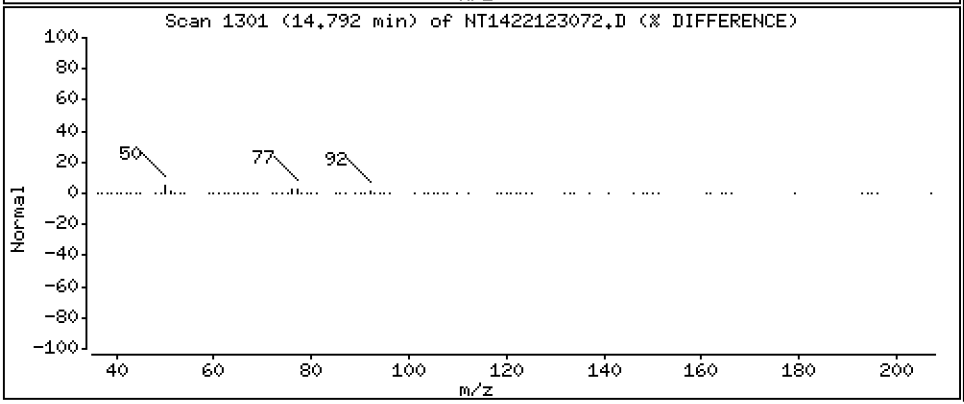












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

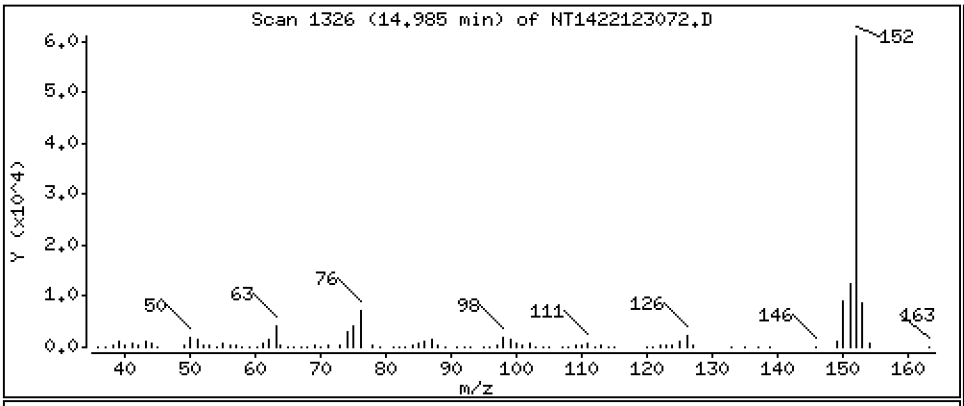
Operator: VTS

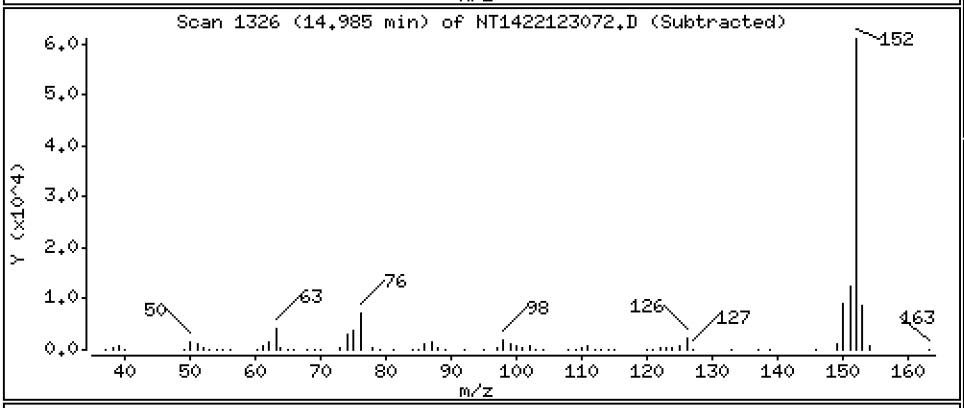
Column phase: ZB-5msi

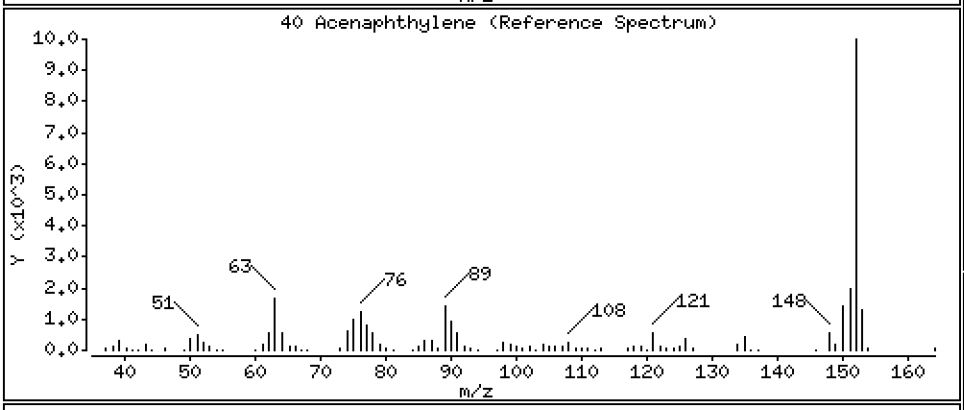
Column diameter: 0.25

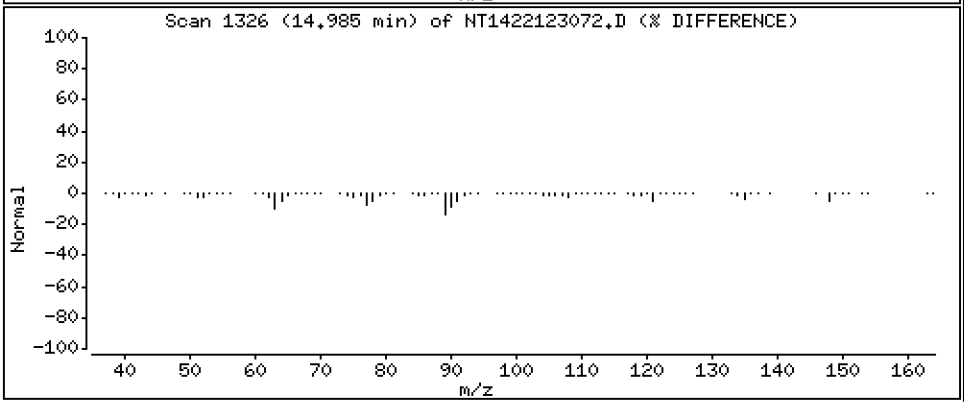
40 Acenaphthylene

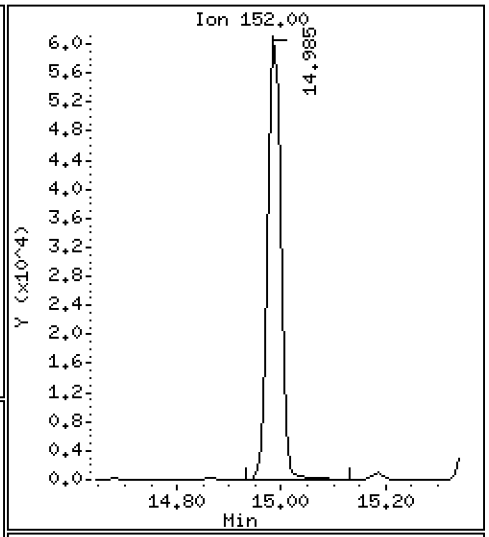
Concentration: 1.575 ug/mL

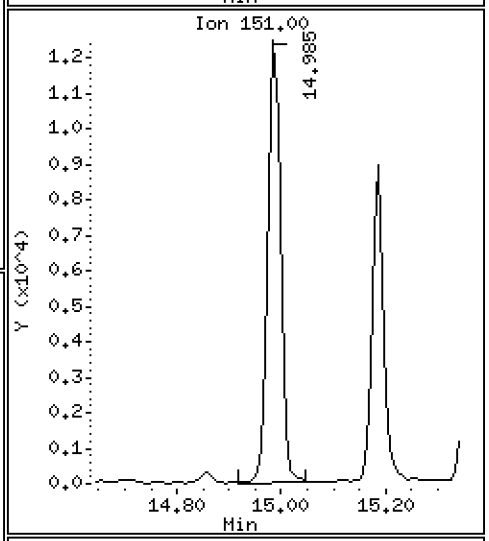


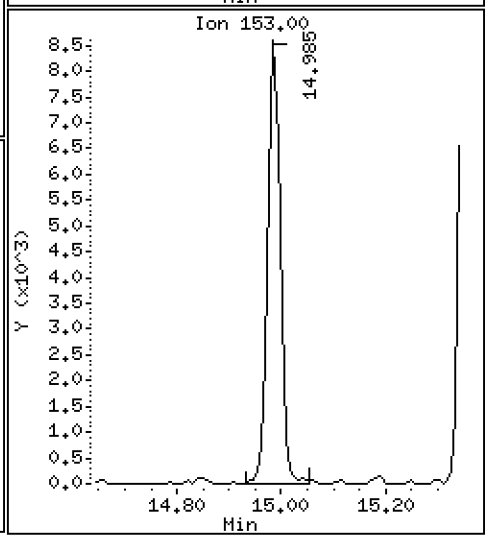












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

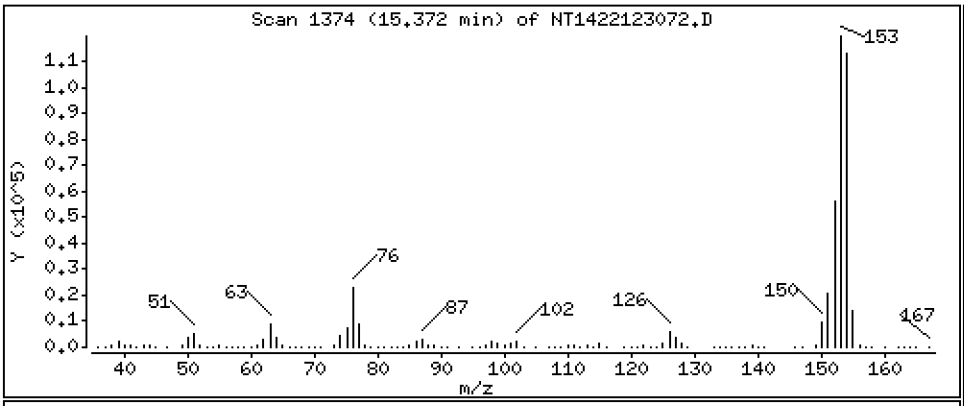
Operator: VTS

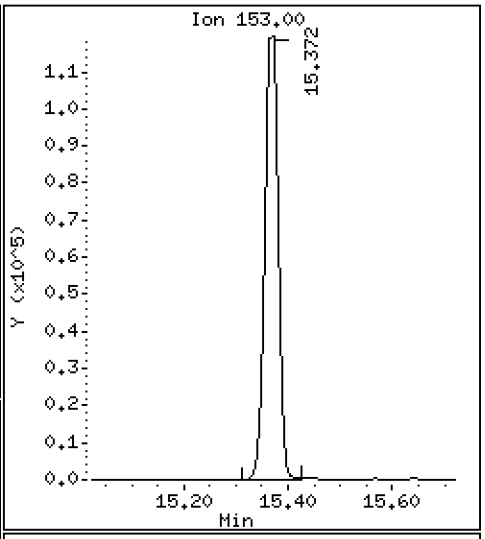
Column phase: ZB-5msi

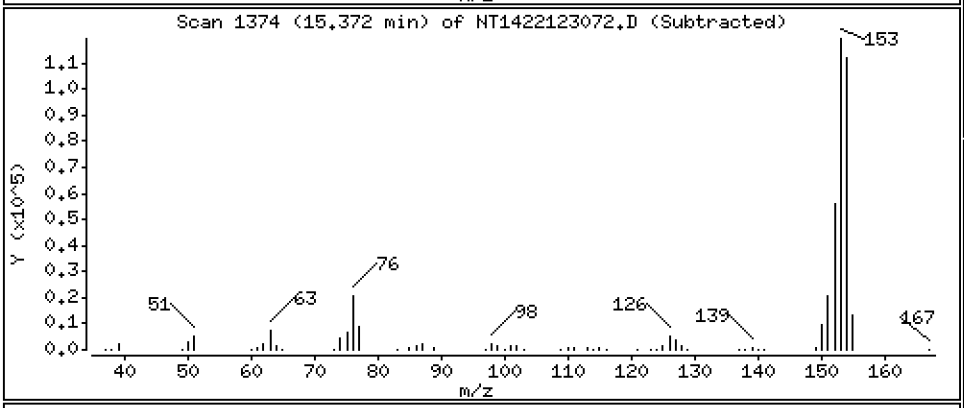
Column diameter: 0.25

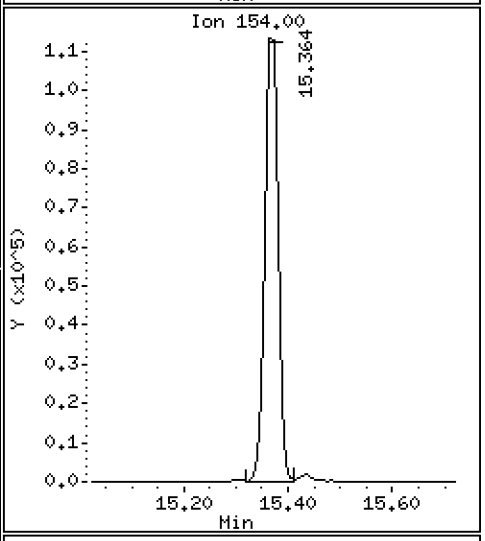
44 Acenaphthene

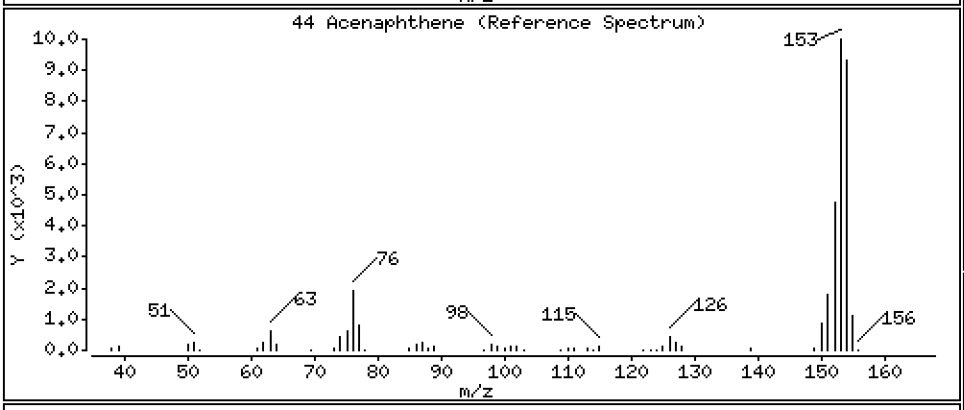
Concentration: 4.651 ug/mL

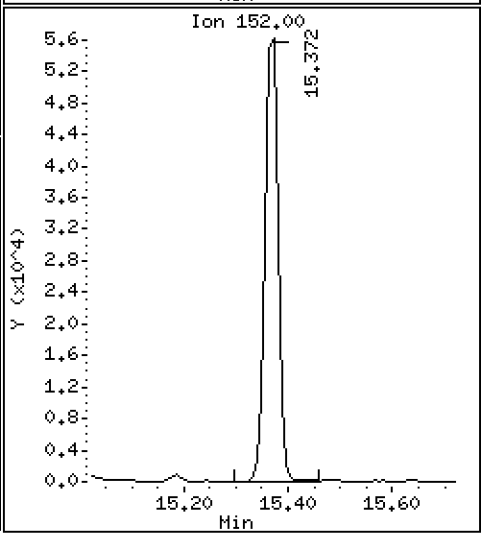


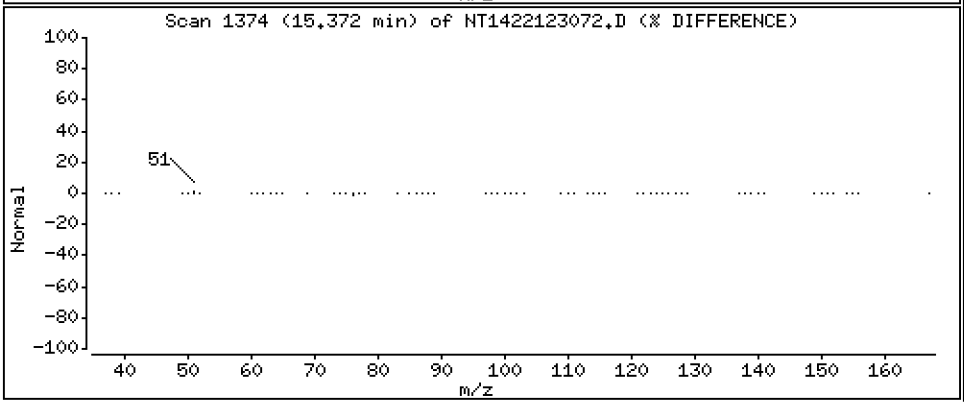












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

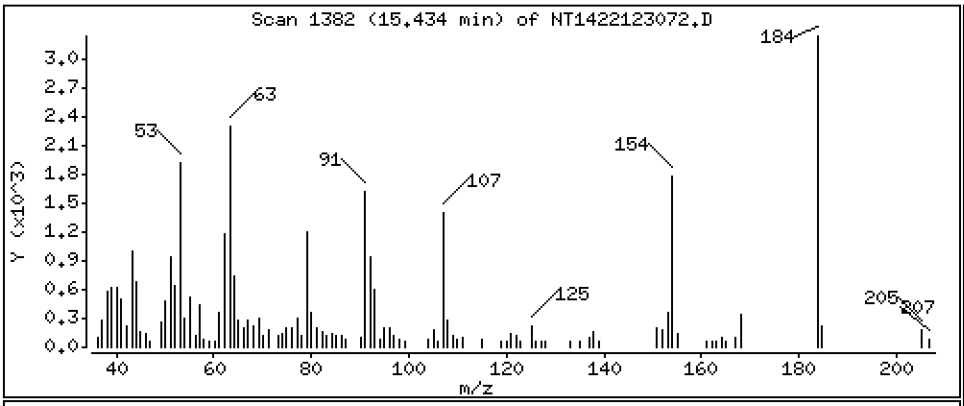
Operator: VTS

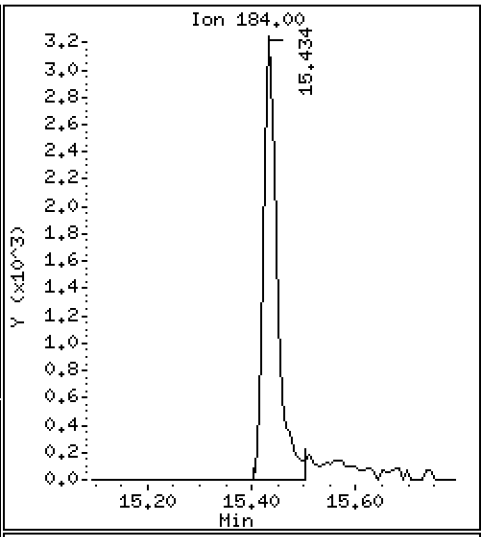
Column phase: ZB-5msi

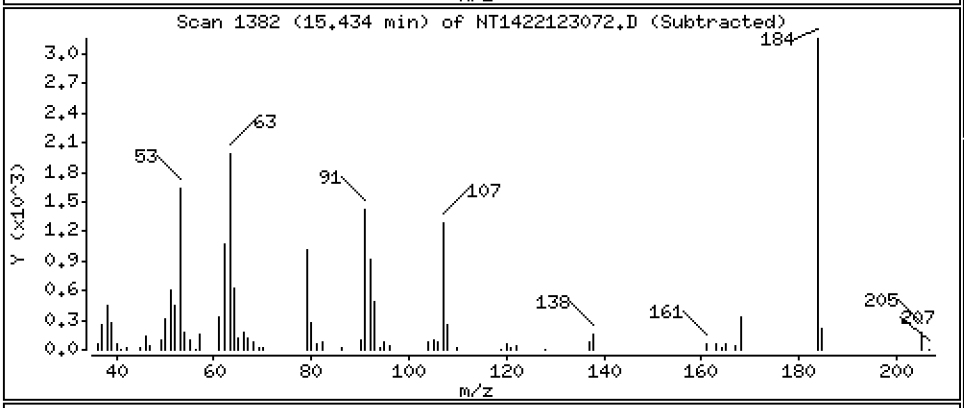
Column diameter: 0.25

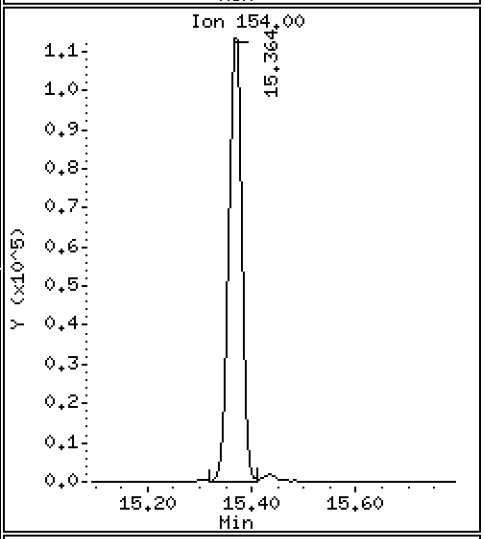
45 2,4-Dinitrophenol

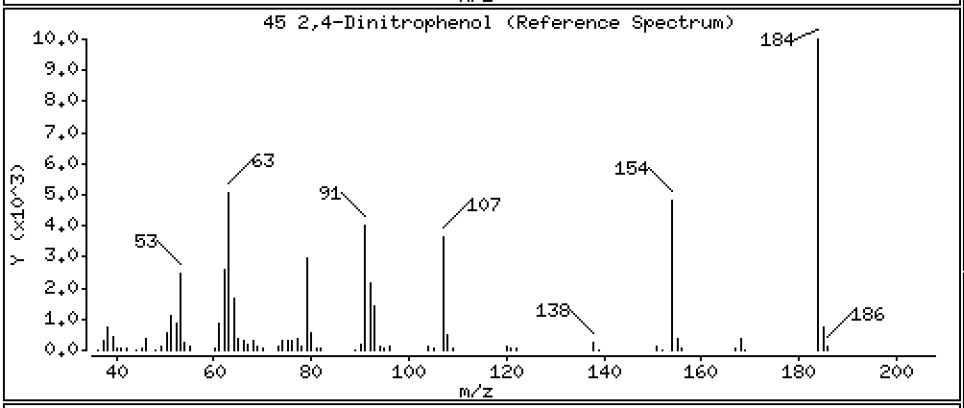
Concentration: 0.6577 ug/mL

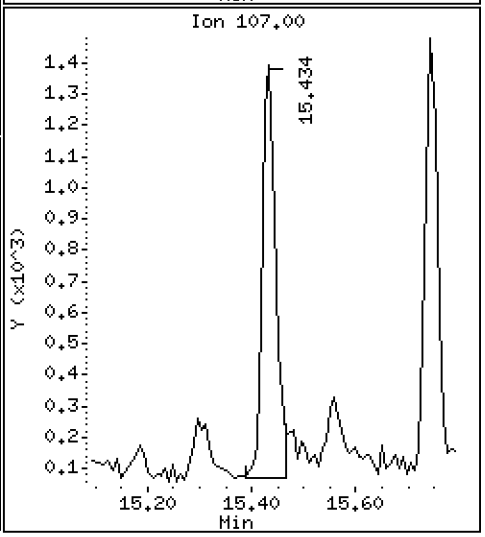


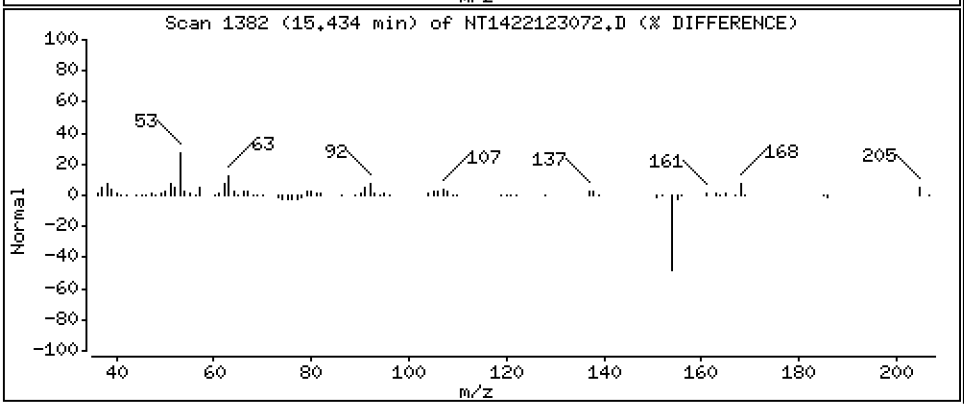












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

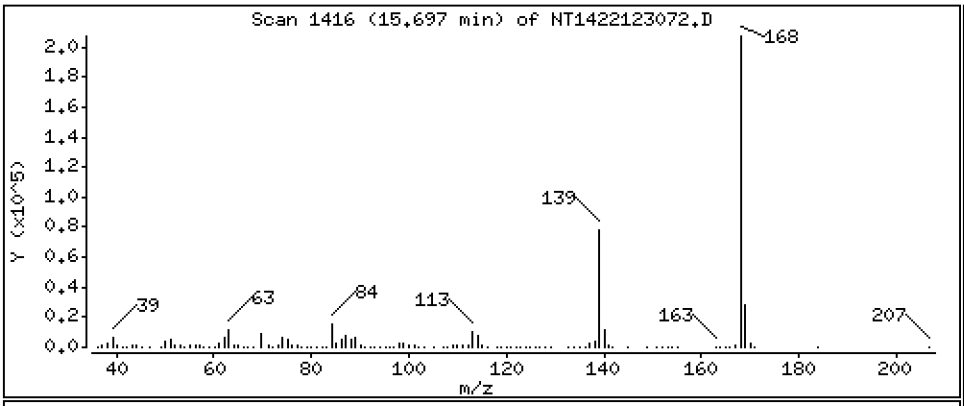
Operator: VTS

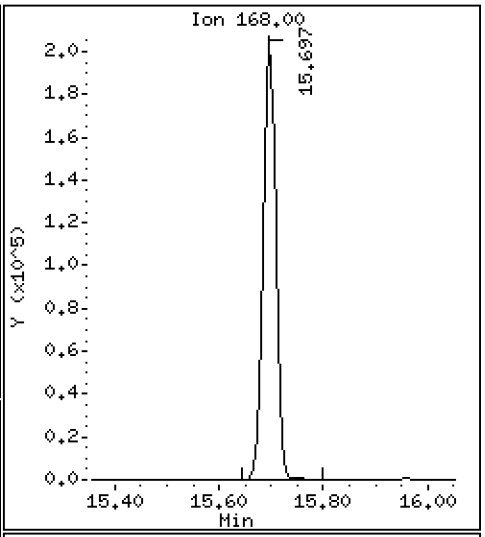
Column phase: ZB-5msi

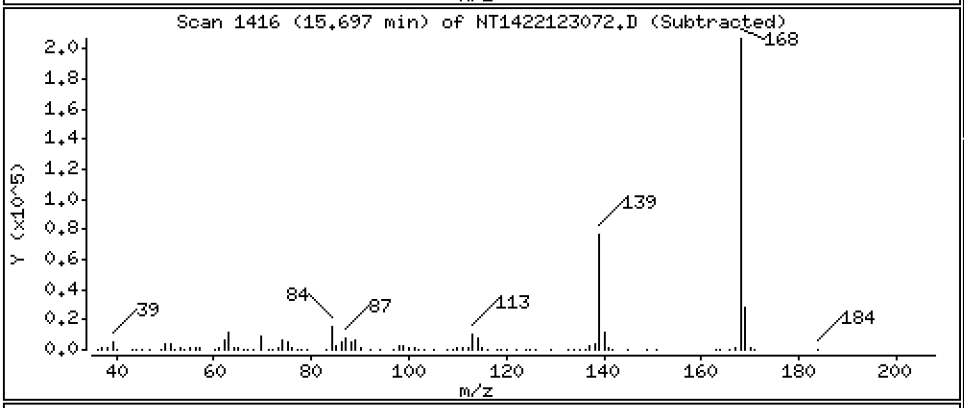
Column diameter: 0.25

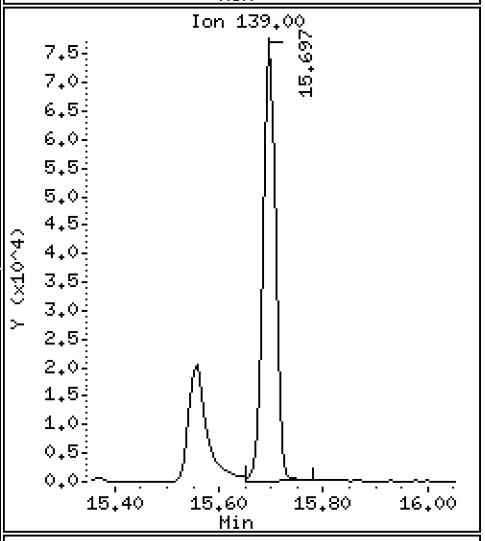
46 Dibenzofuran

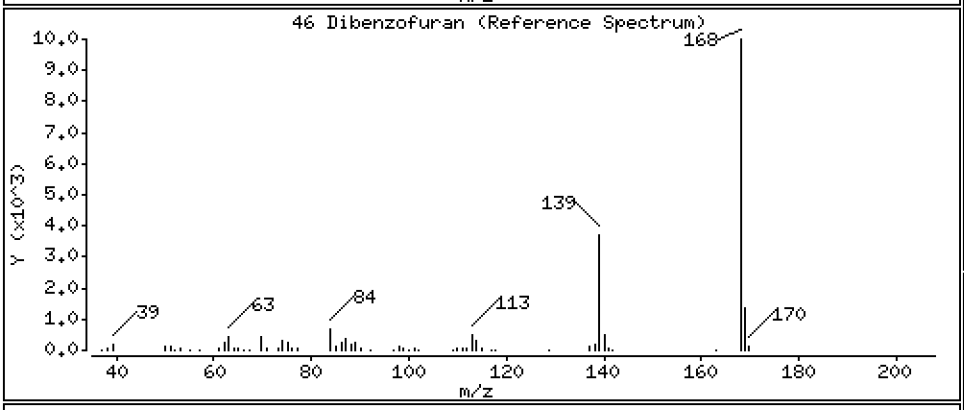
Concentration: 5.003 ug/mL

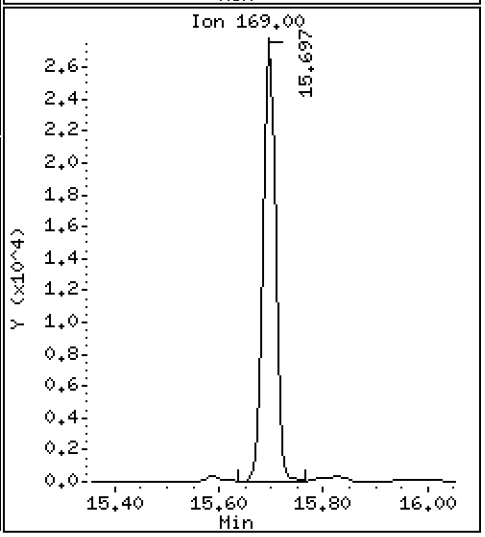


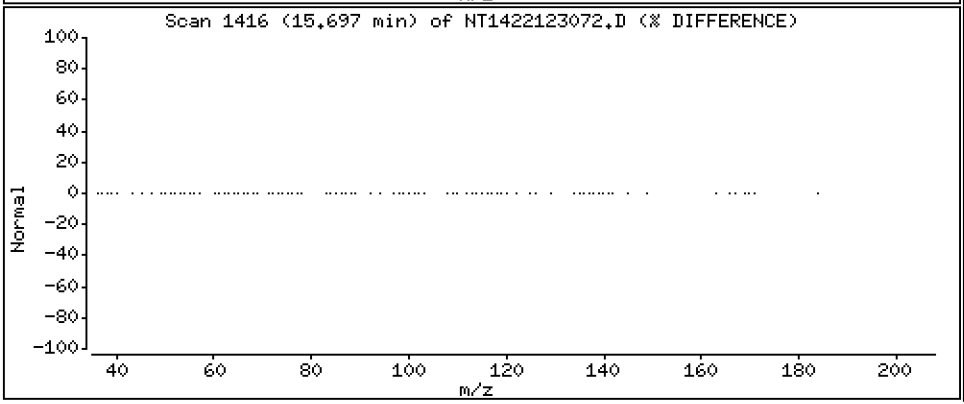












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

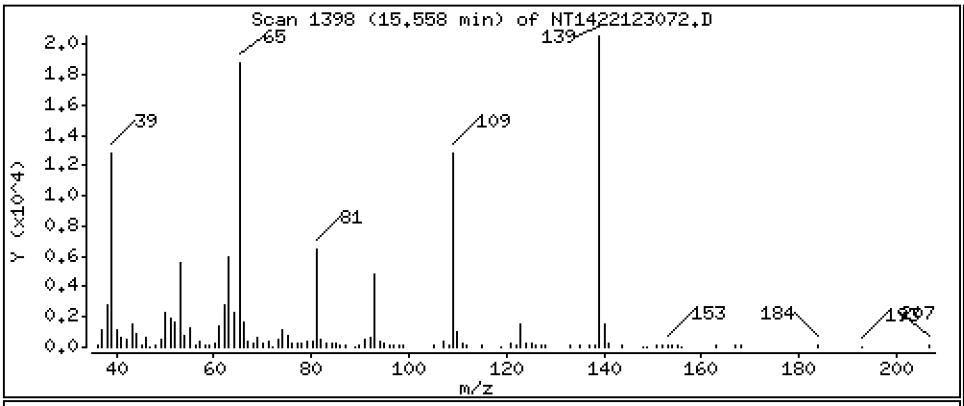
Operator: VTS

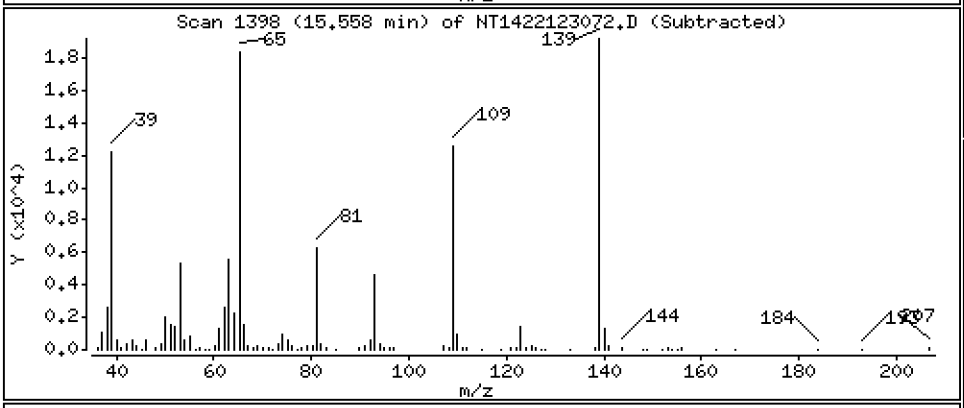
Column phase: ZB-5msi

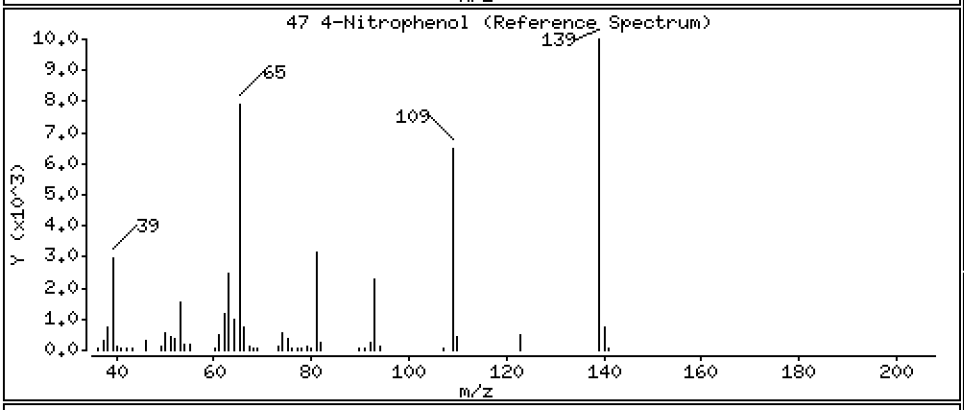
Column diameter: 0.25

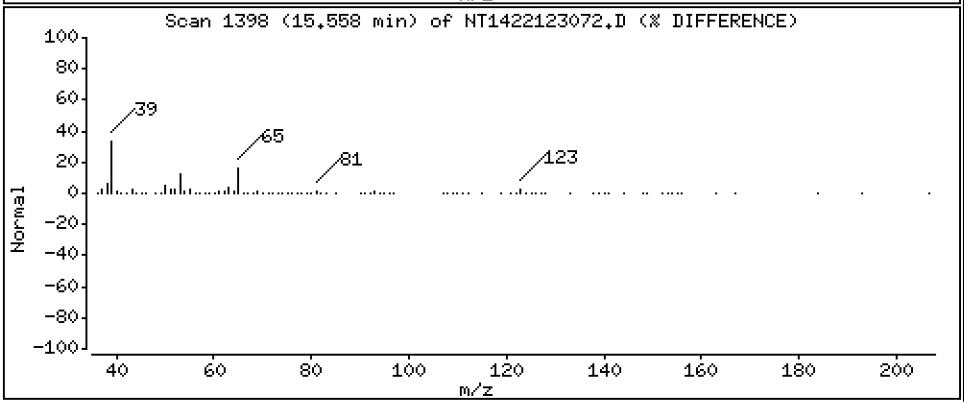
47 4-Nitrophenol

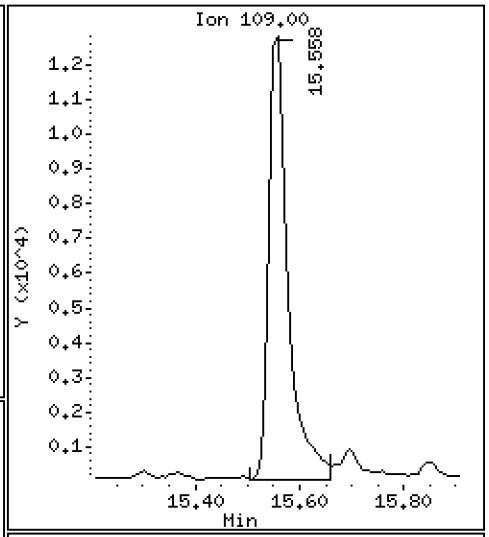
Concentration: 5.330 ug/mL

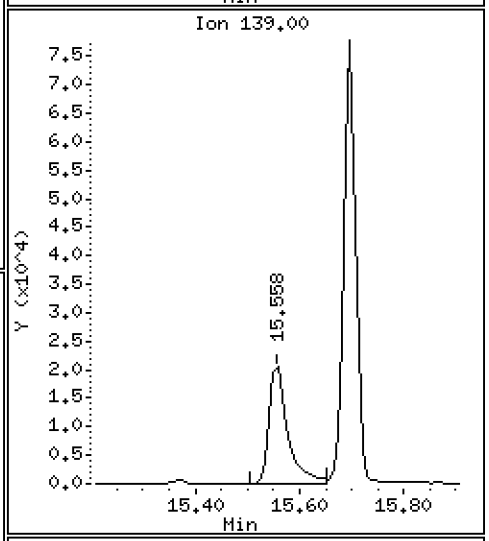


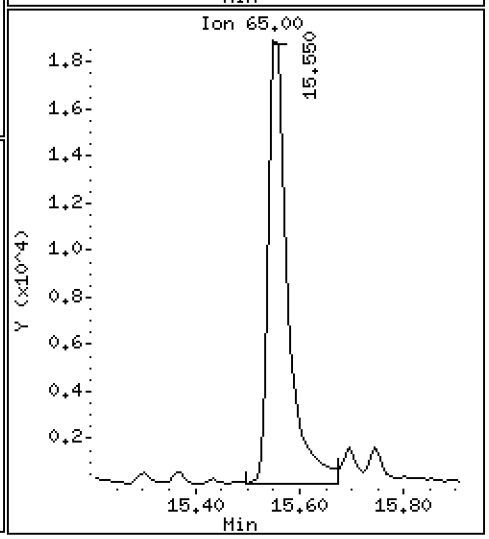












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

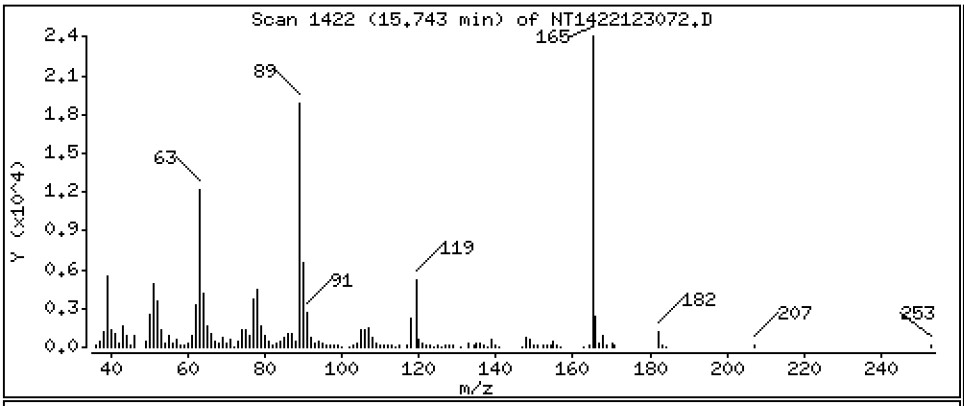
Operator: VTS

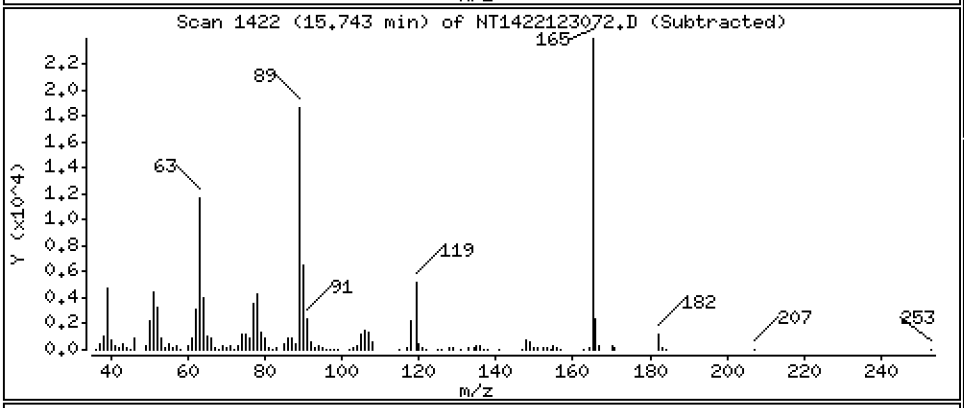
Column phase: ZB-5msi

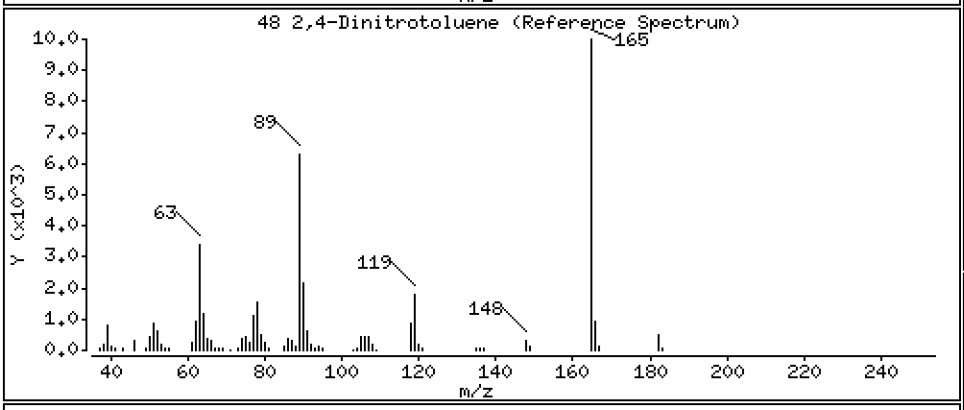
Column diameter: 0.25

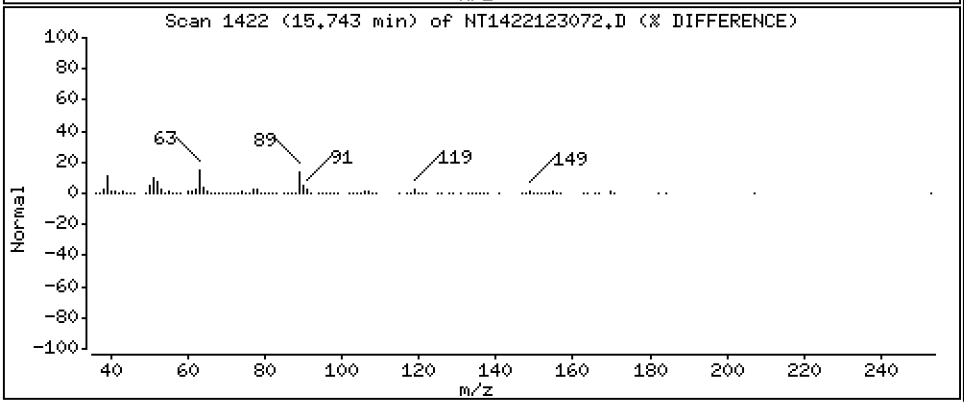
48 2,4-Dinitrotoluene

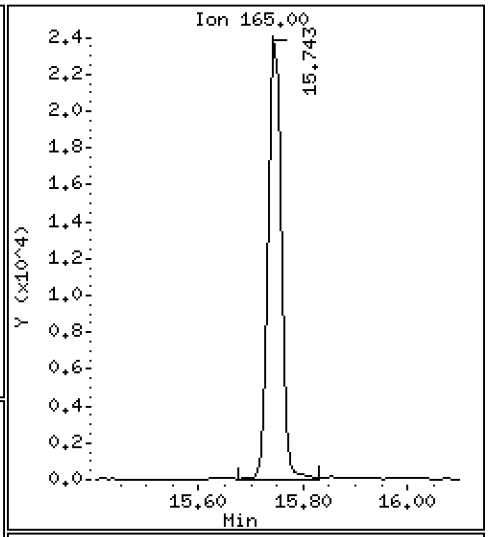
Concentration: 2.851 ug/mL

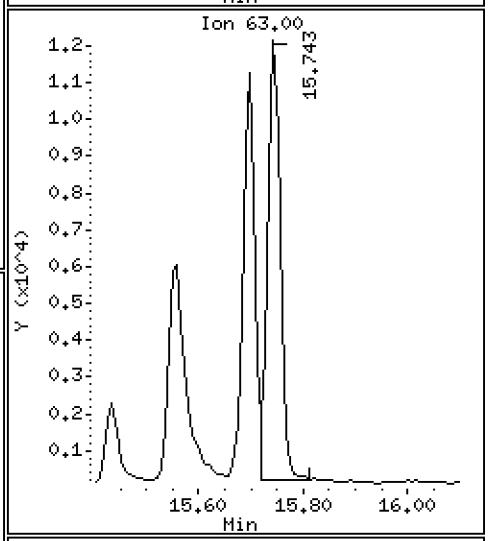


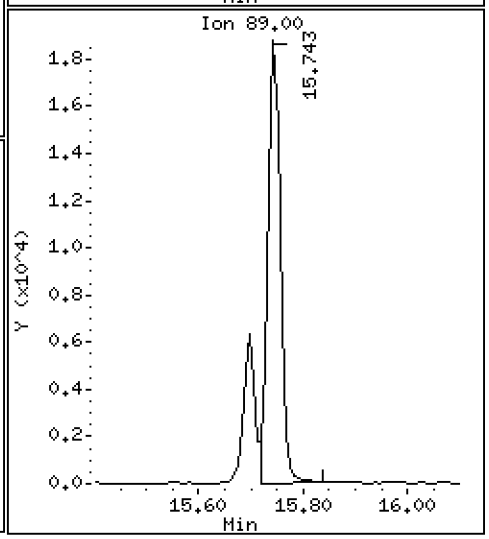












Date : 01-JAN-2023 03:05

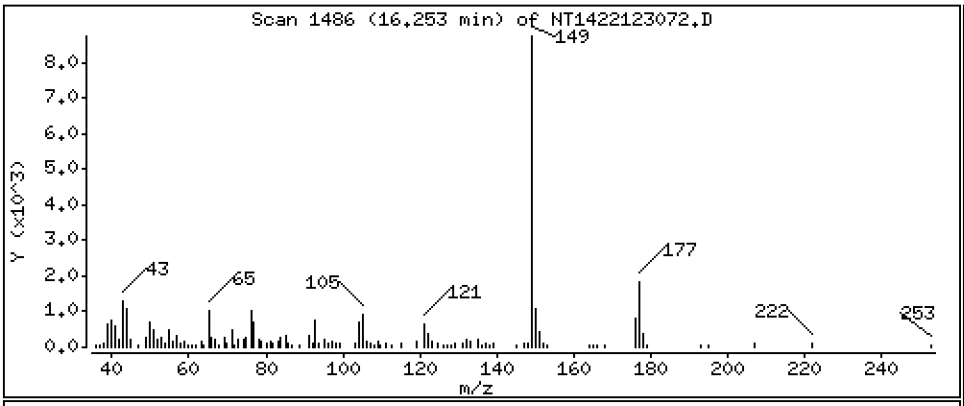
Client ID: Instrument: nt14.i

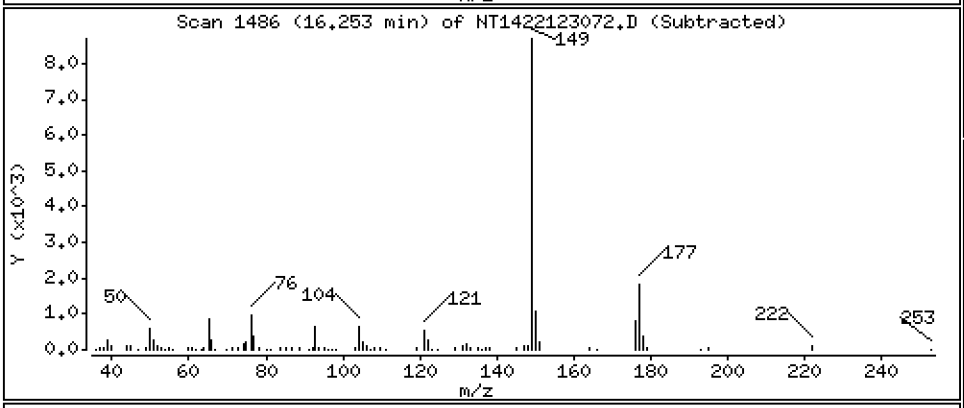
Sample Info: BKL0193-SRM1

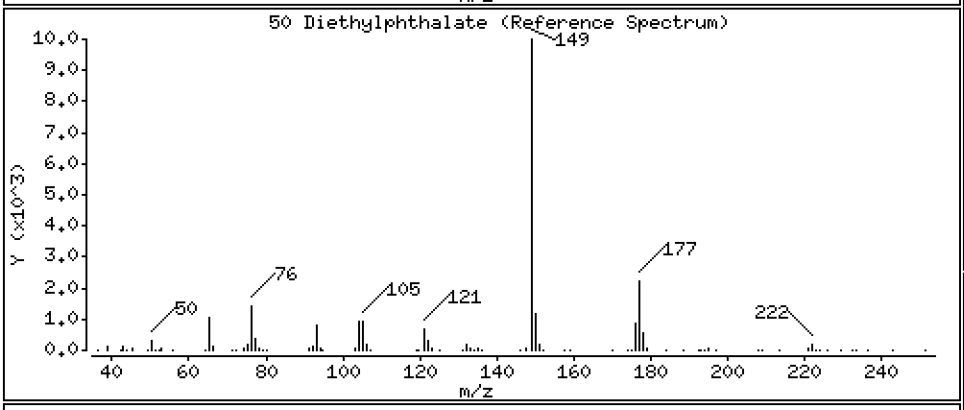
Operator: VTS

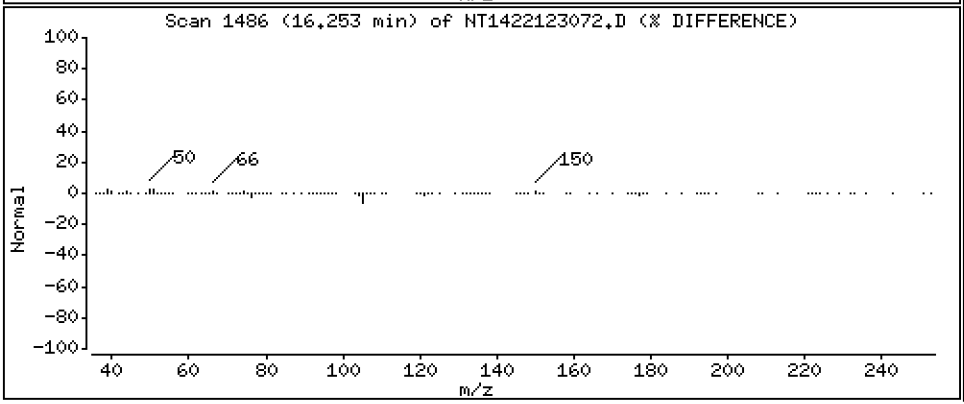
Column phase: ZB-5msi Column diameter: 0.25

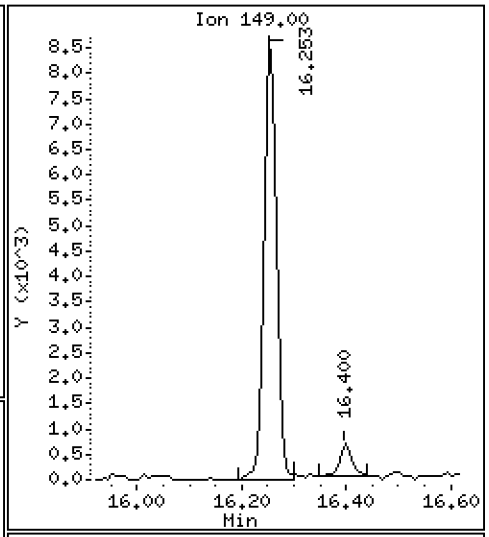
50 Diethylphthalate Concentration: 0.2639 ug/mL

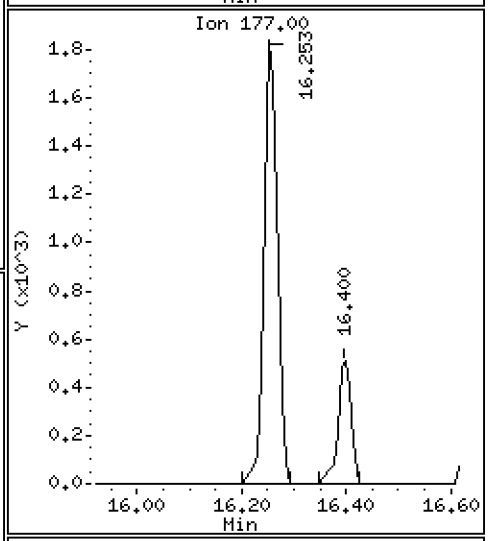


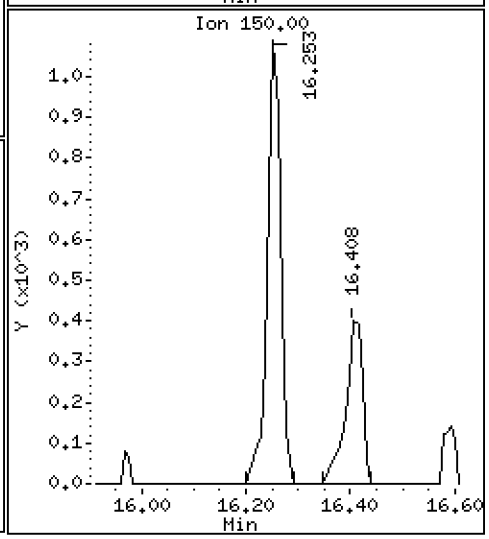












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

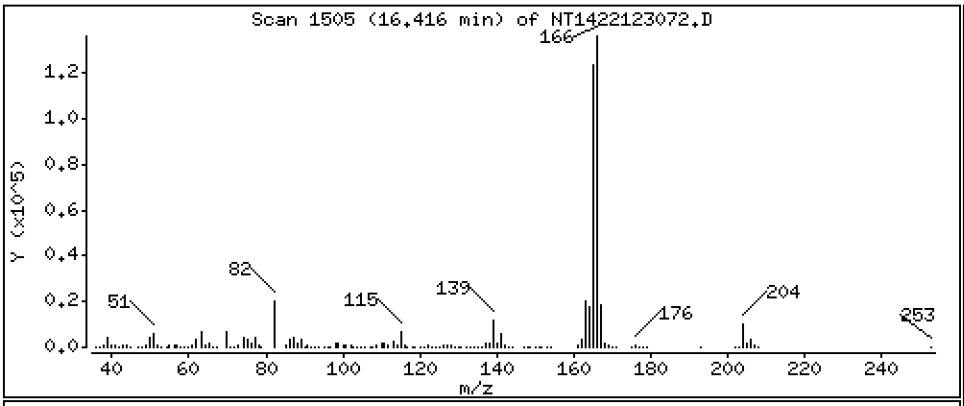
Operator: VTS

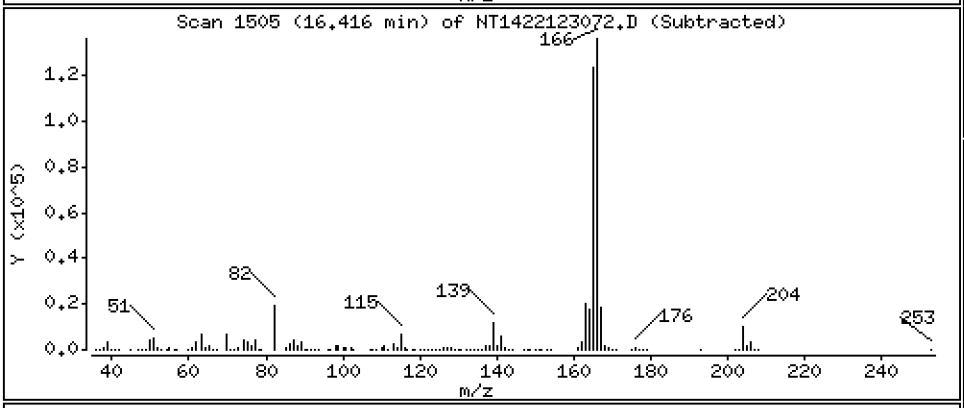
Column phase: ZB-5msi

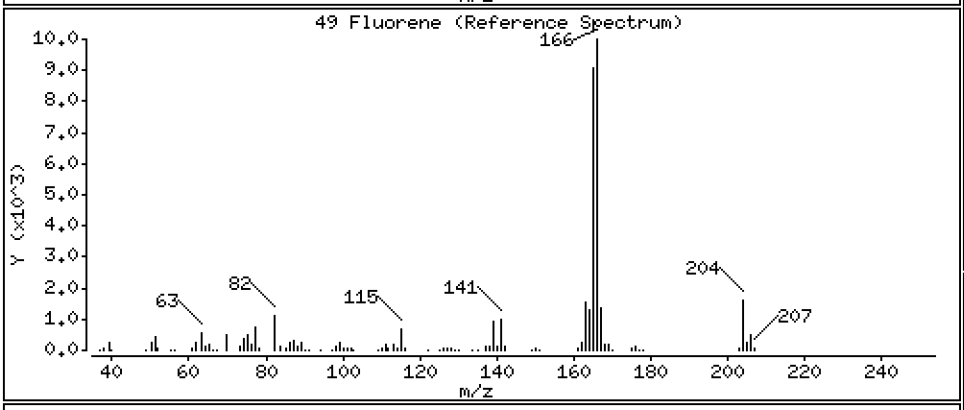
Column diameter: 0.25

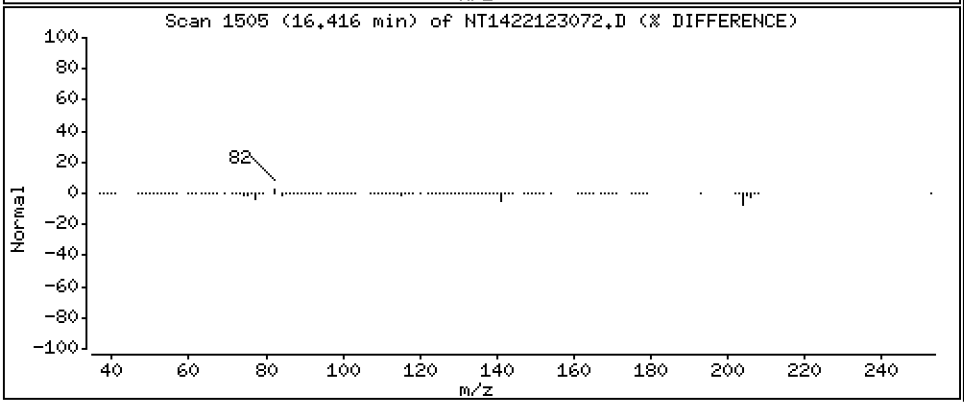
49 Fluorene

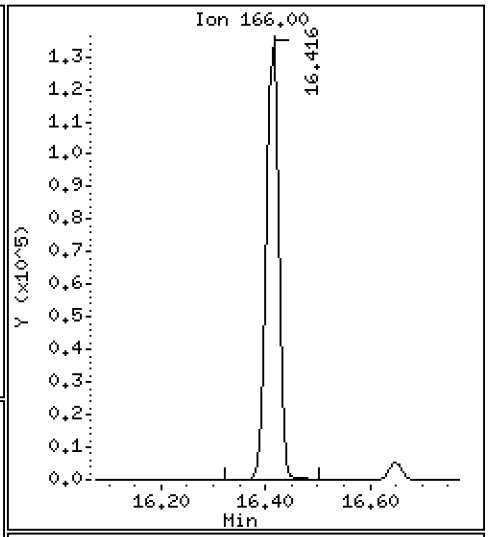
Concentration: 3.341 ug/mL

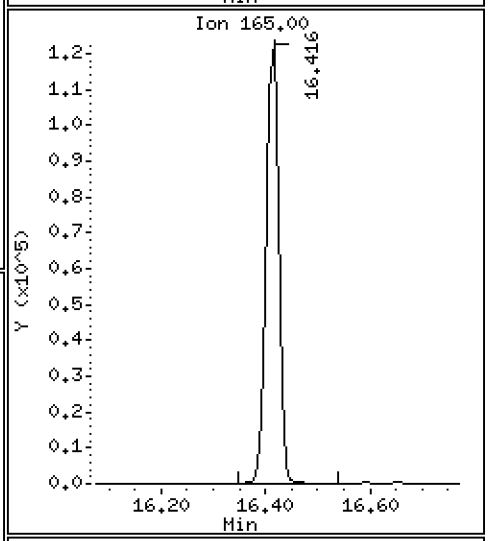


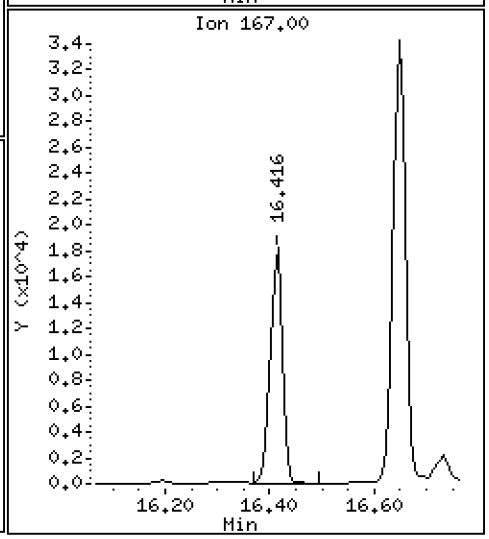












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

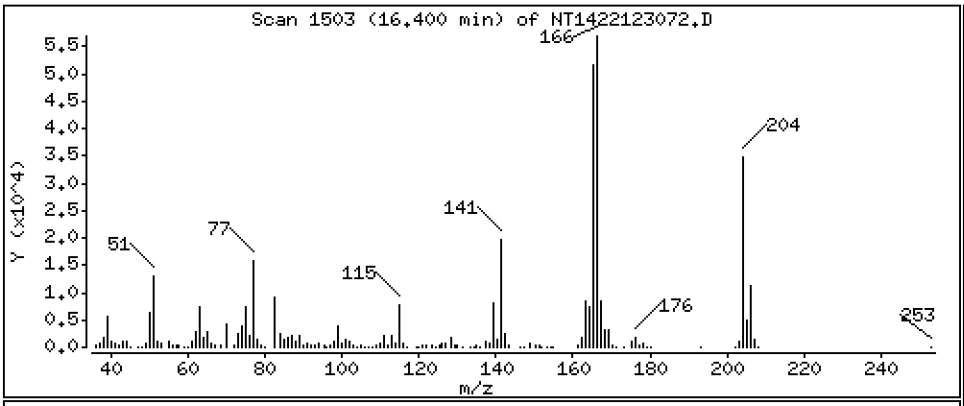
Operator: VTS

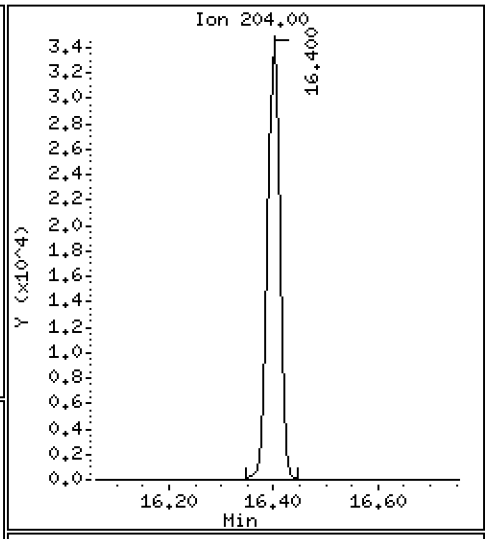
Column phase: ZB-5msi

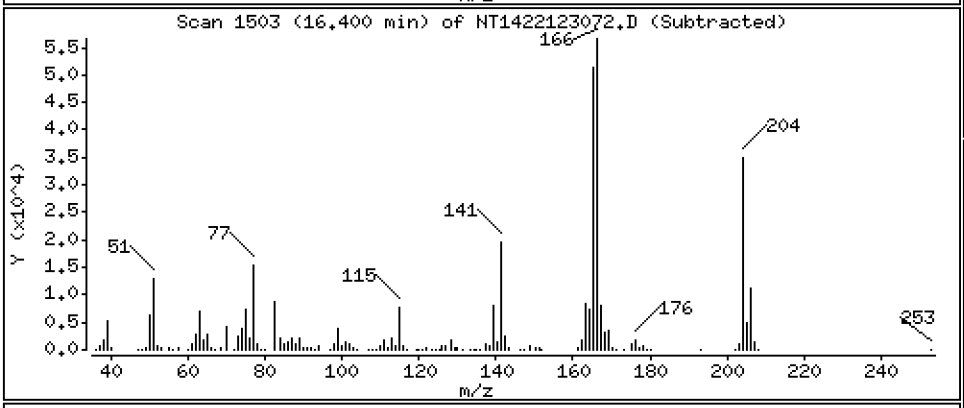
Column diameter: 0.25

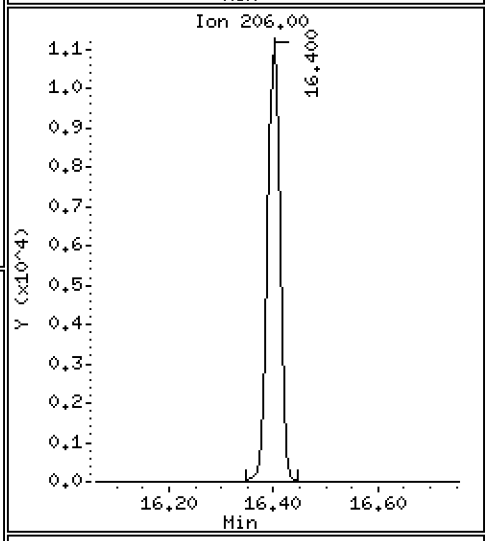
51 4-Chlorophenyl-phenylether

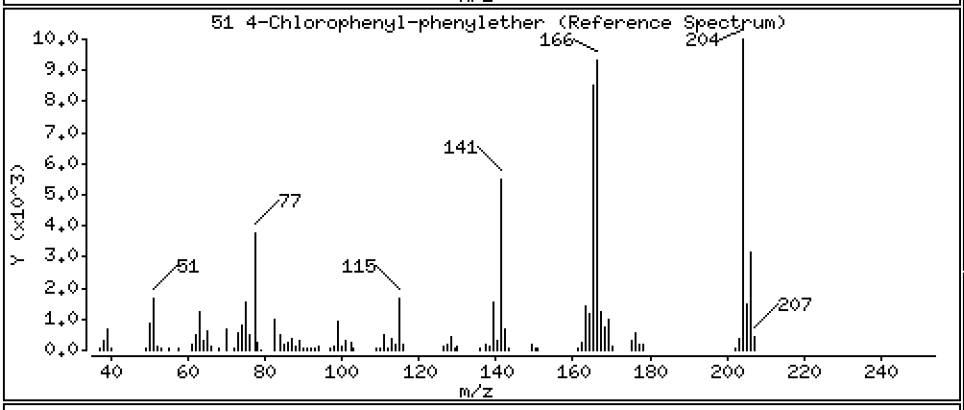
Concentration: 1.866 ug/mL

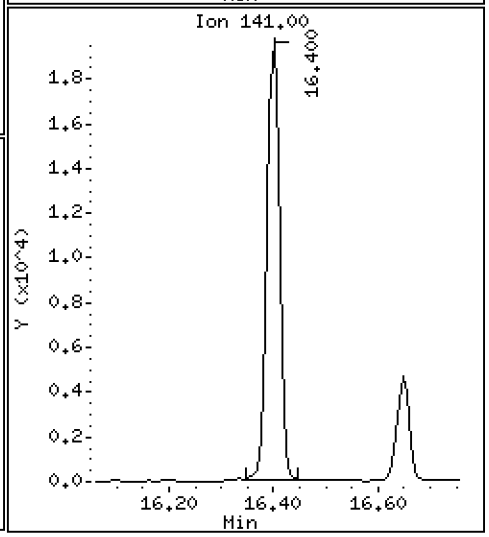


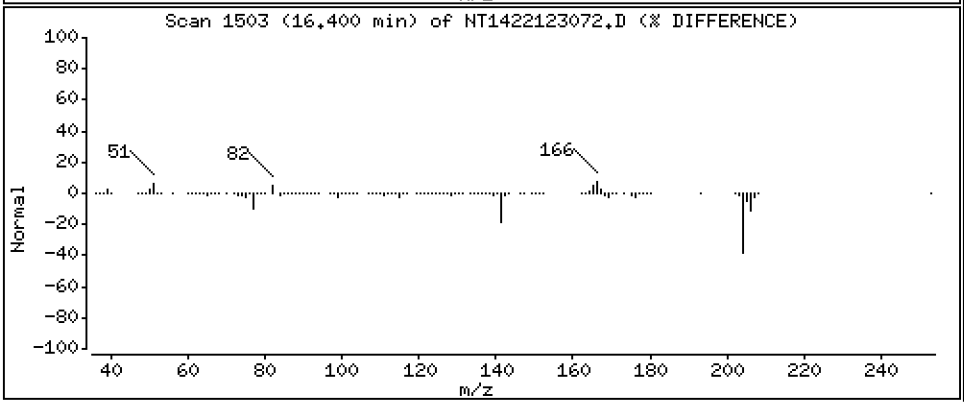












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

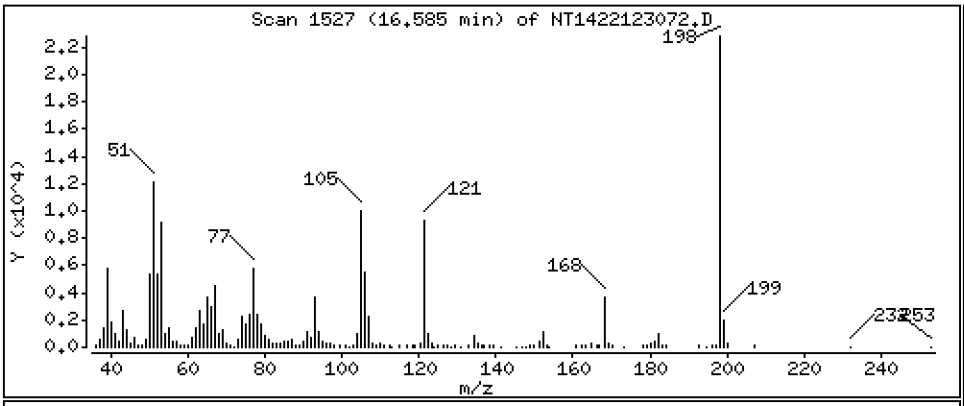
Operator: VTS

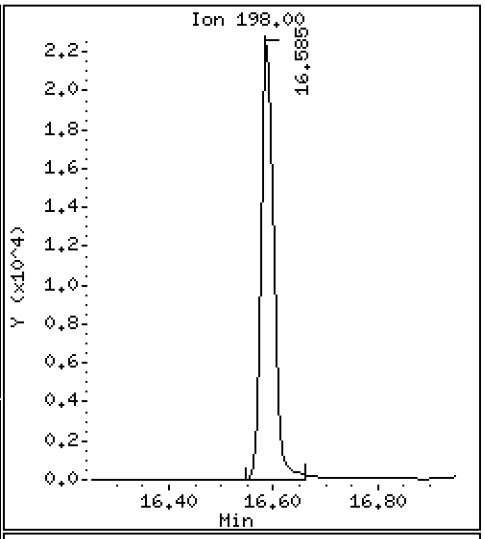
Column phase: ZB-5msi

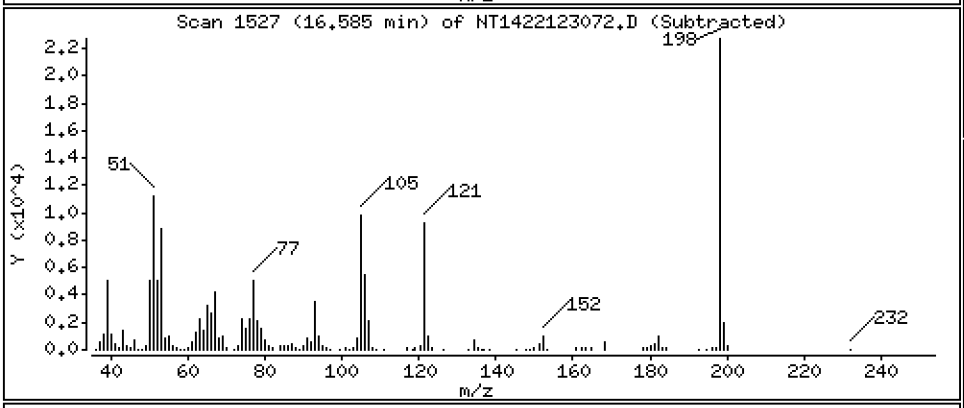
Column diameter: 0.25

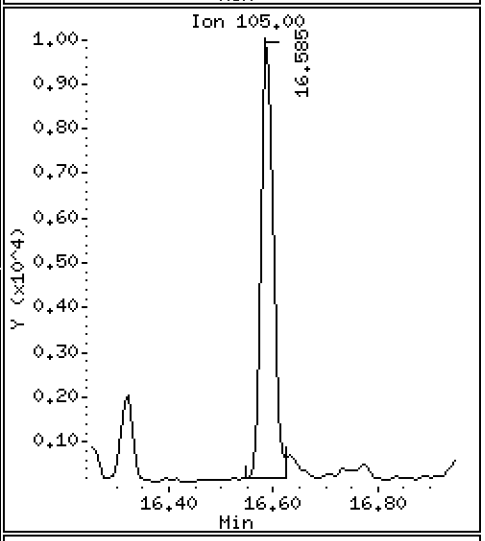
53 4,6-Dinitro-2-methylphenol

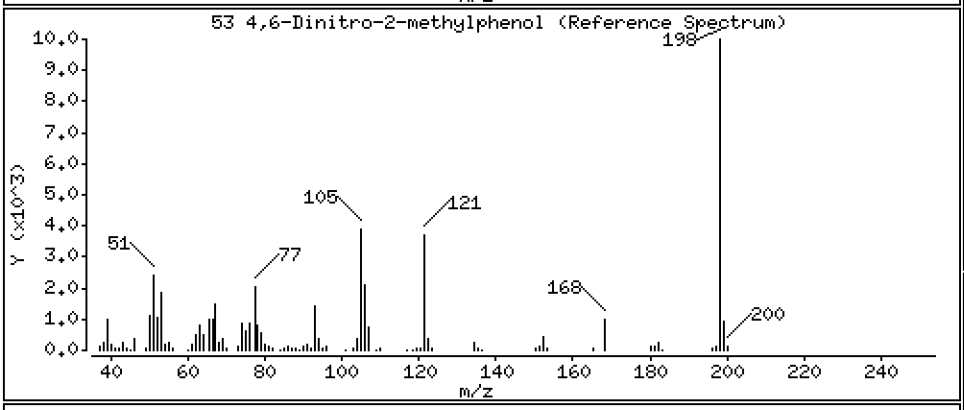
Concentration: 3.188 ug/mL

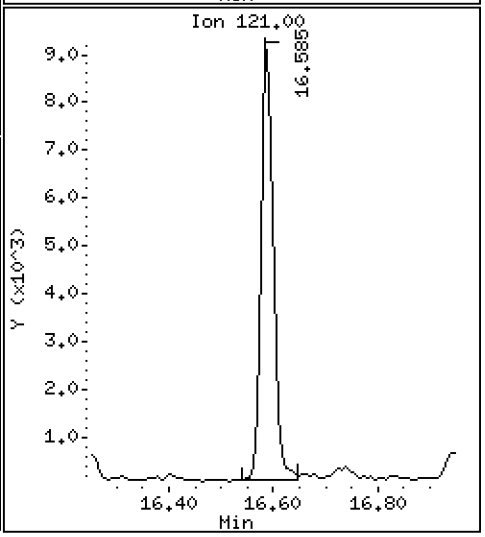


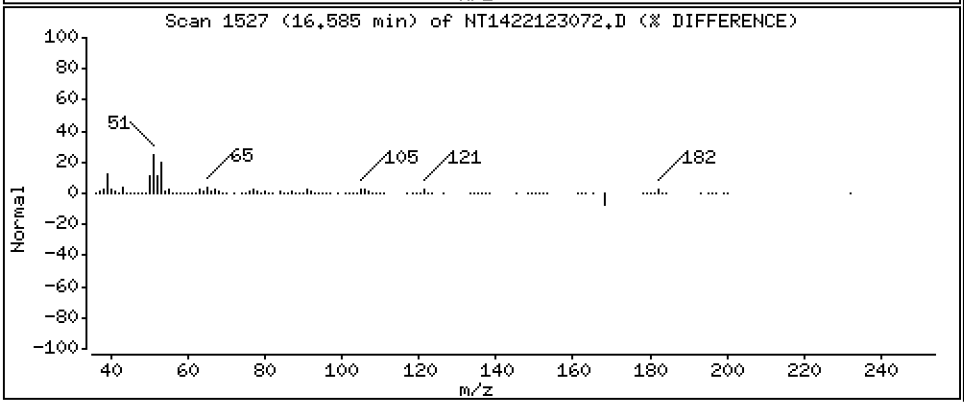












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

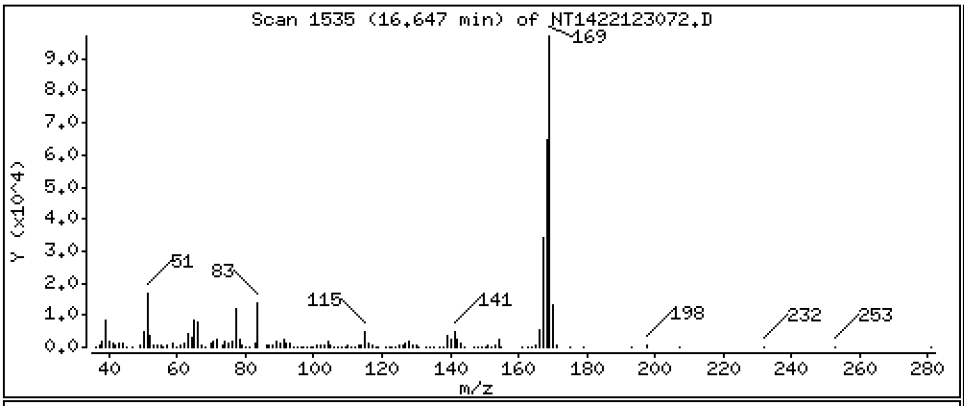
Operator: VTS

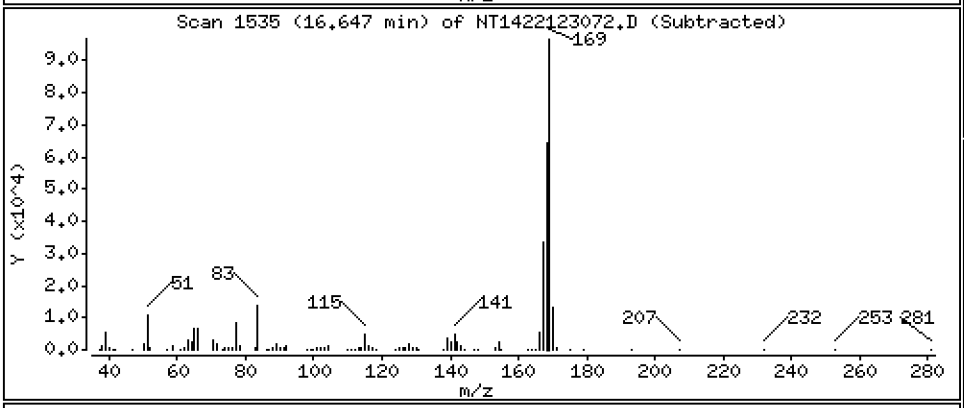
Column phase: ZB-5msi

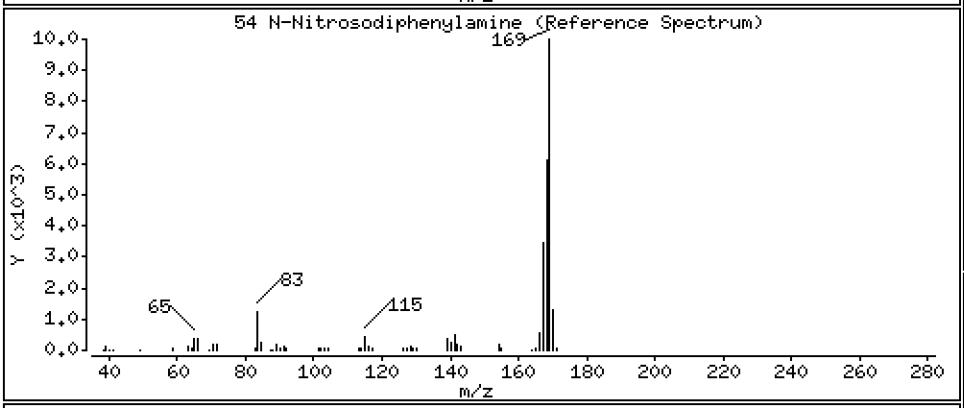
Column diameter: 0.25

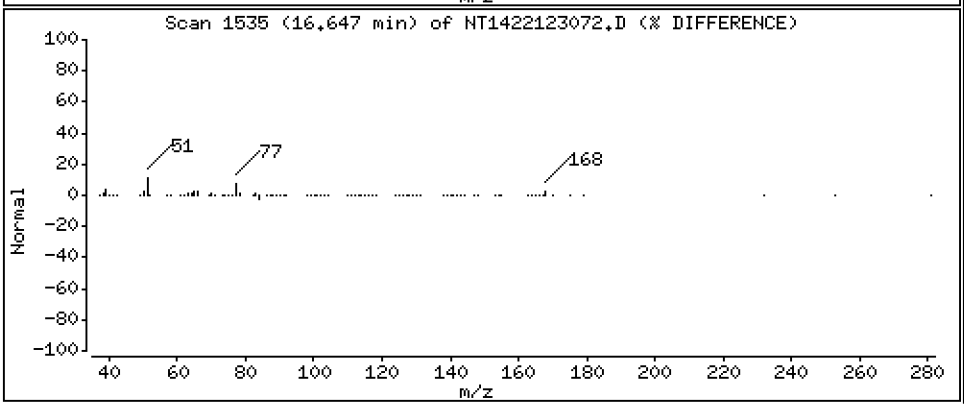
54 N-Nitrosodiphenylamine

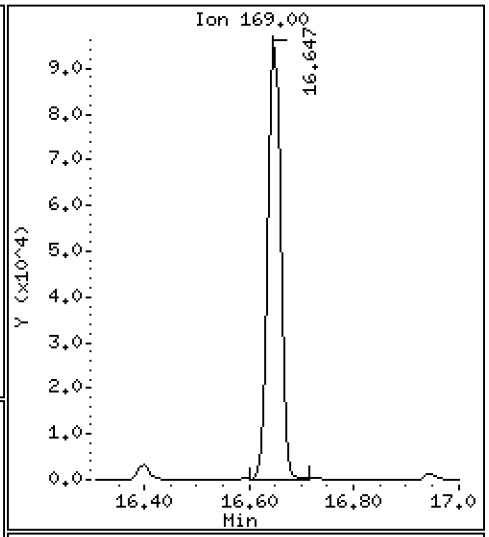
Concentration: 3.322 ug/mL

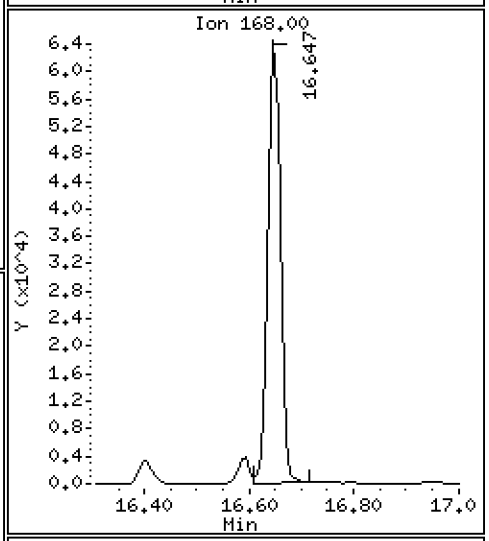


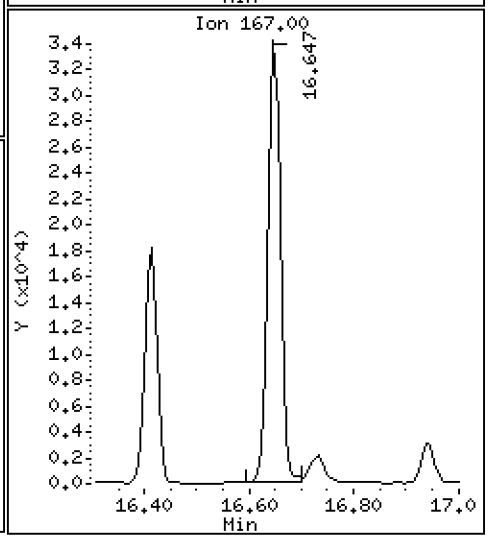












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

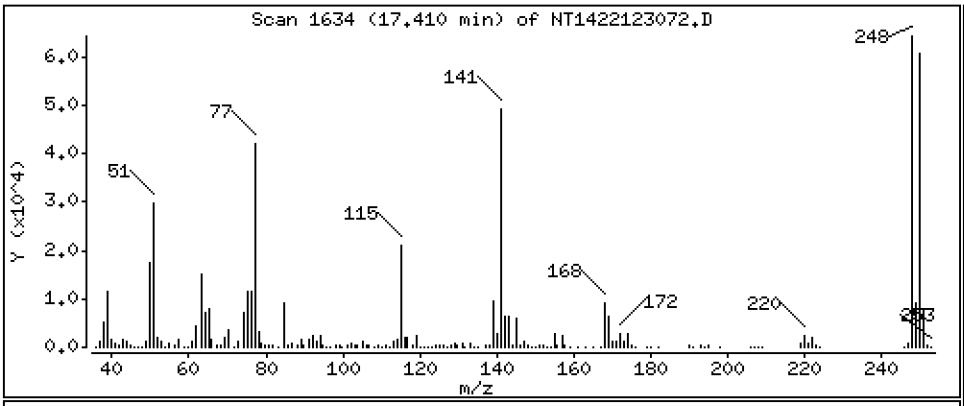
Operator: VTS

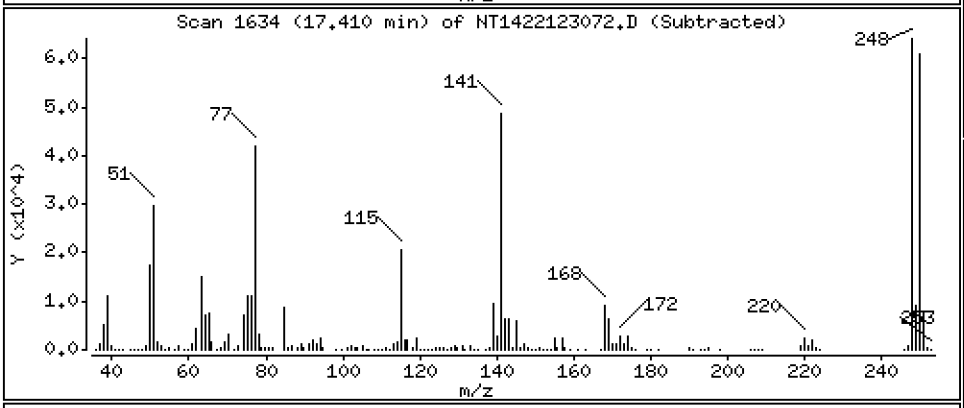
Column phase: ZB-5msi

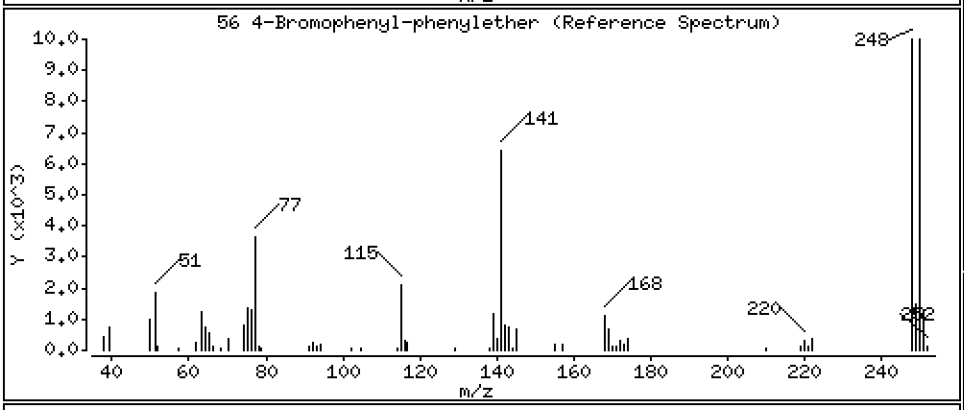
Column diameter: 0.25

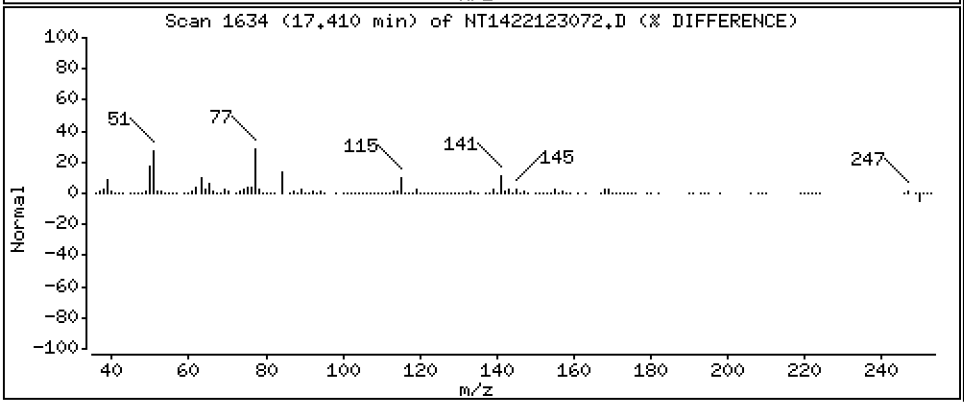
56 4-Bromophenyl-phenylether

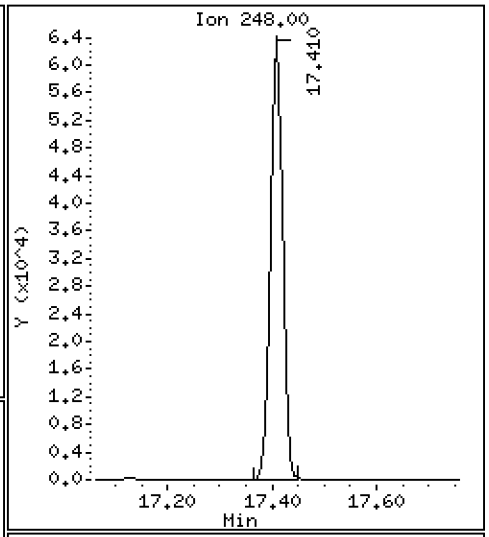
Concentration: 5.499 ug/mL

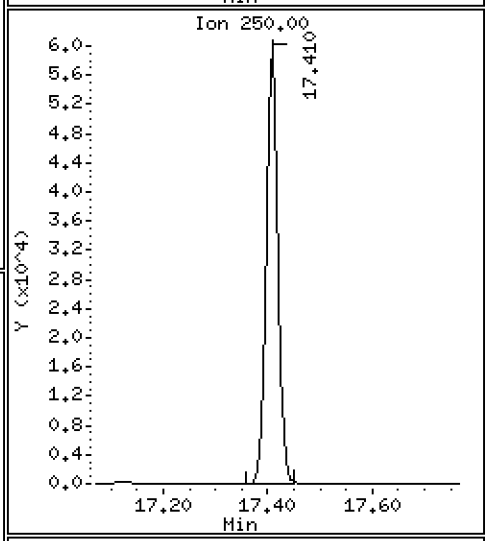


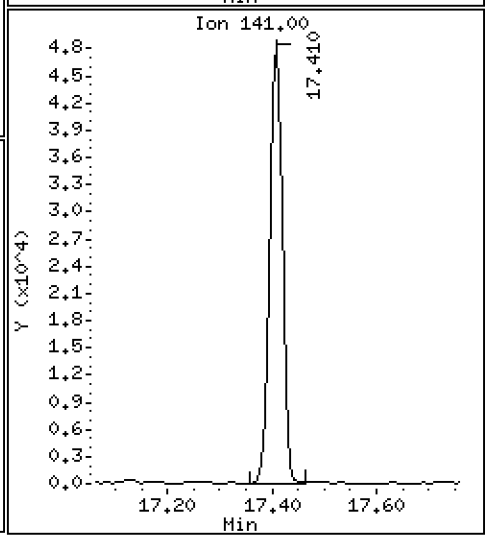












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

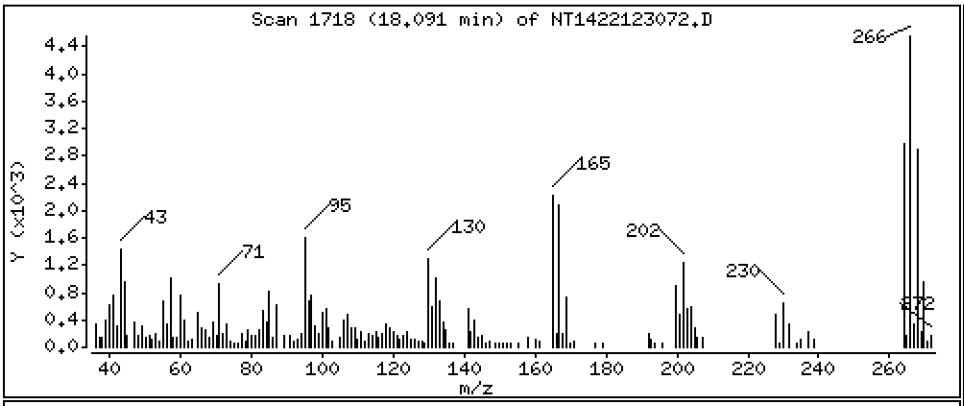
Operator: VTS

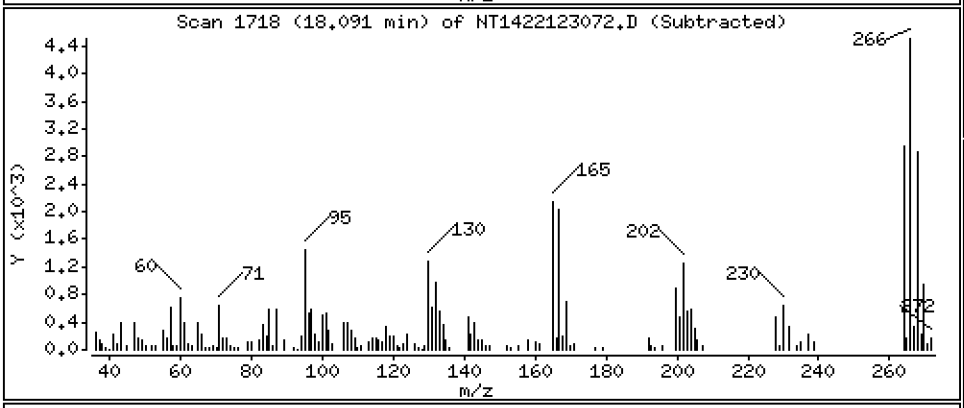
Column phase: ZB-5msi

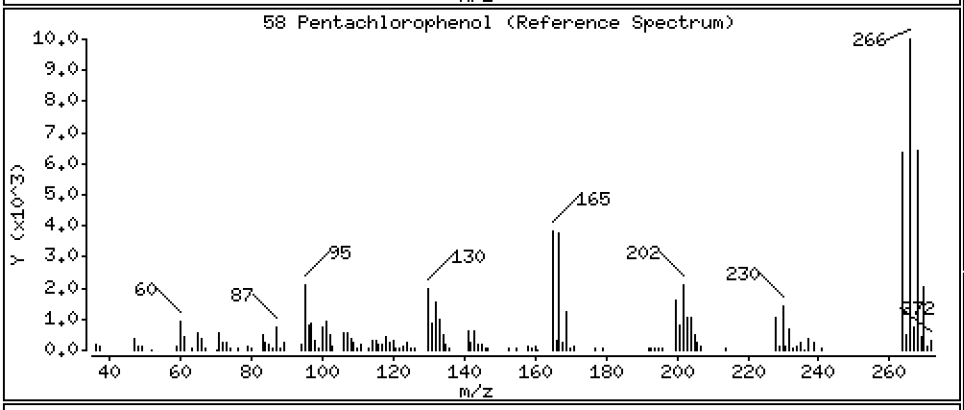
Column diameter: 0.25

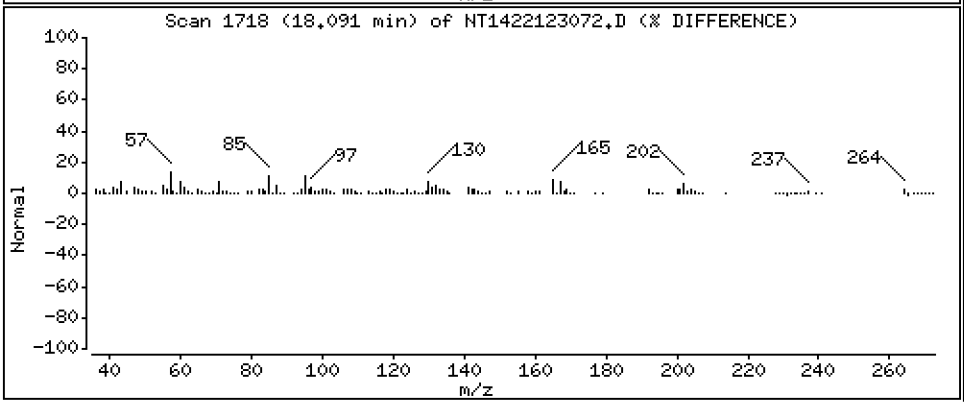
58 Pentachlorophenol

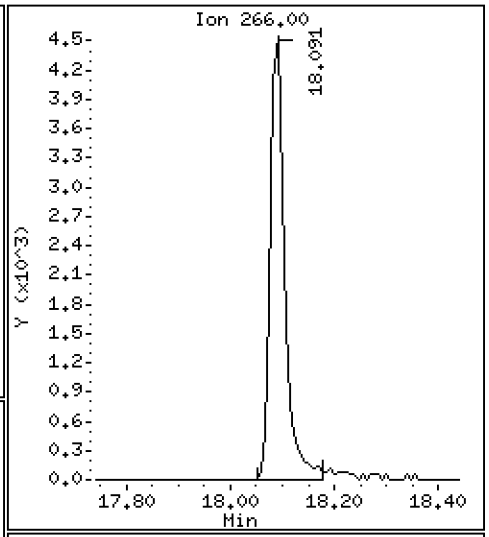
Concentration: 1.002 ug/mL

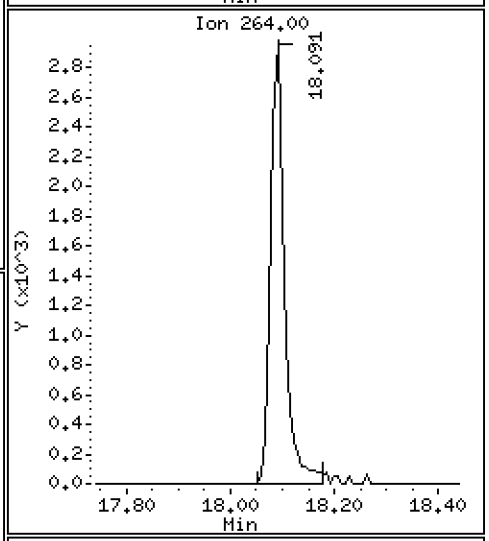


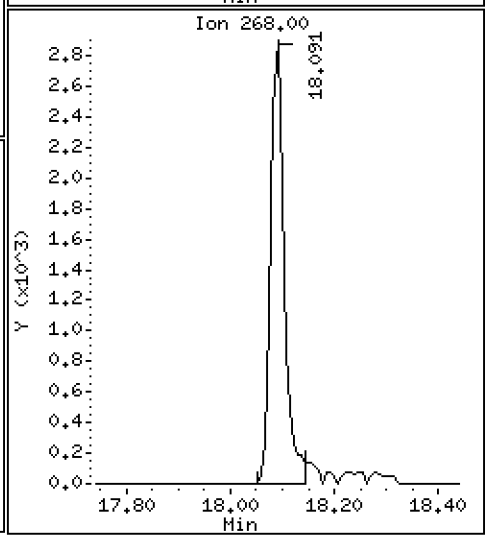












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

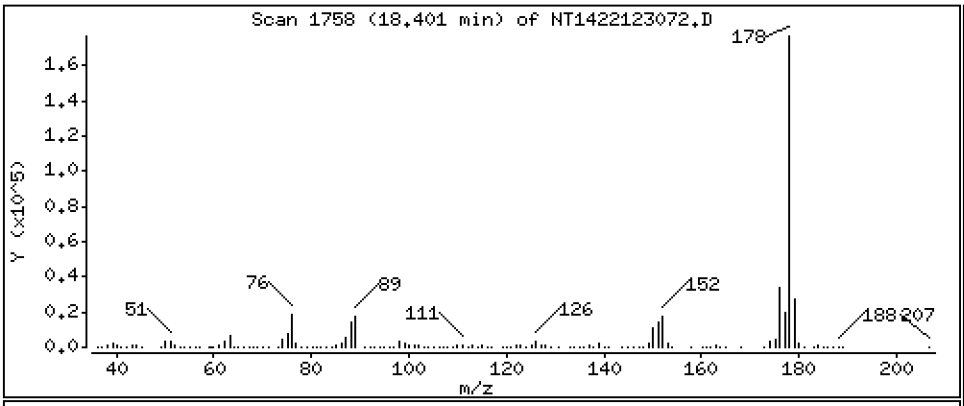
Operator: VTS

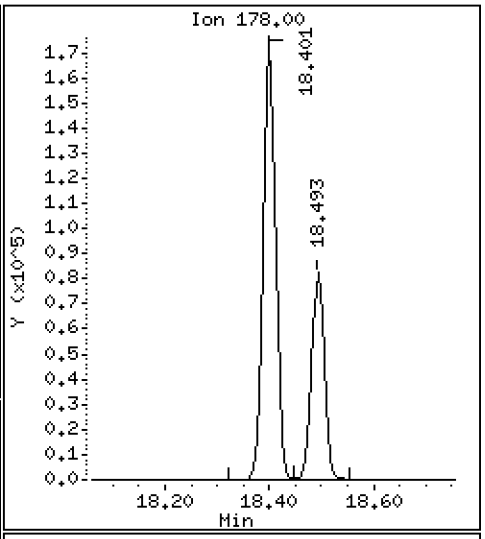
Column phase: ZB-5msi

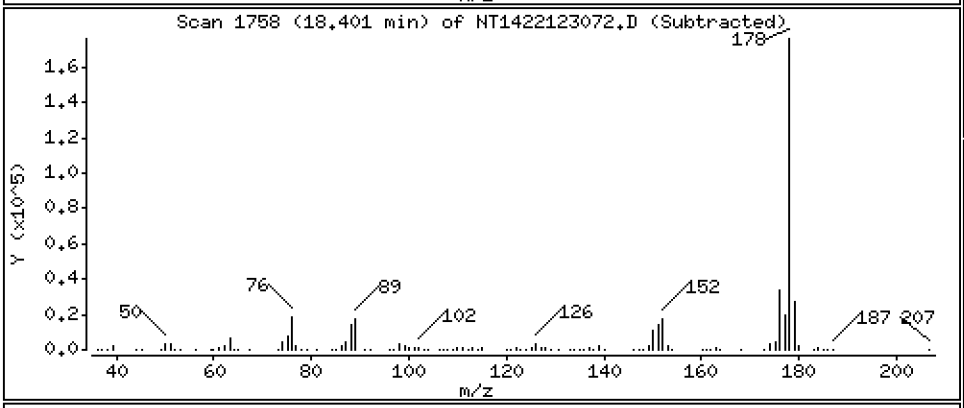
Column diameter: 0.25

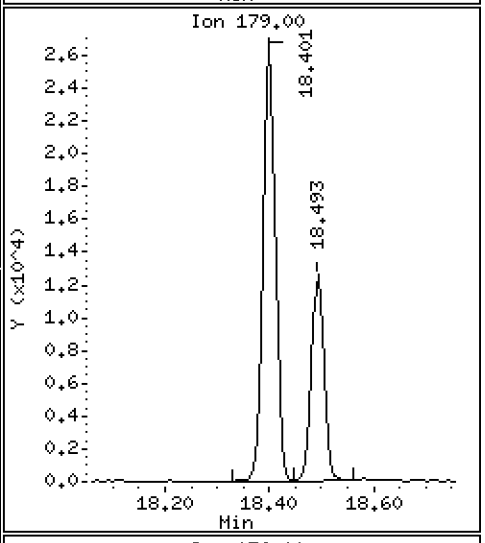
60 Phenanthrene

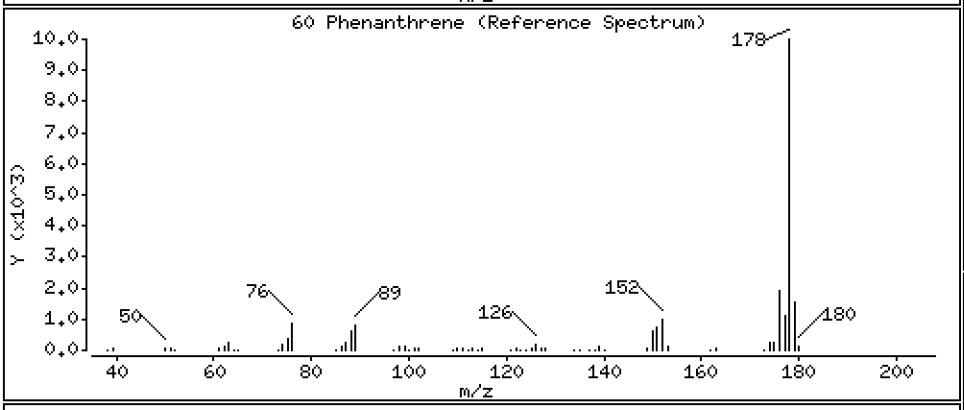
Concentration: 3.976 ug/mL

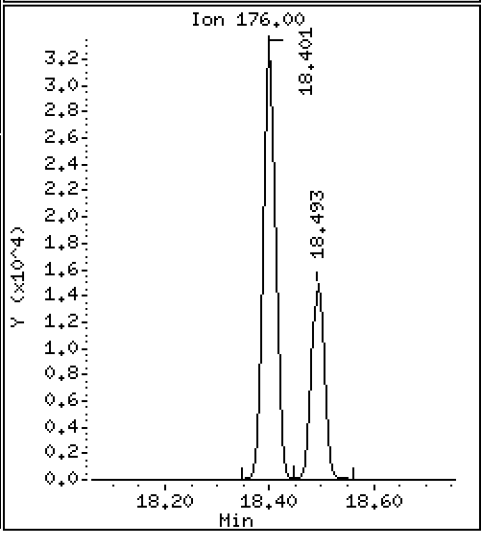


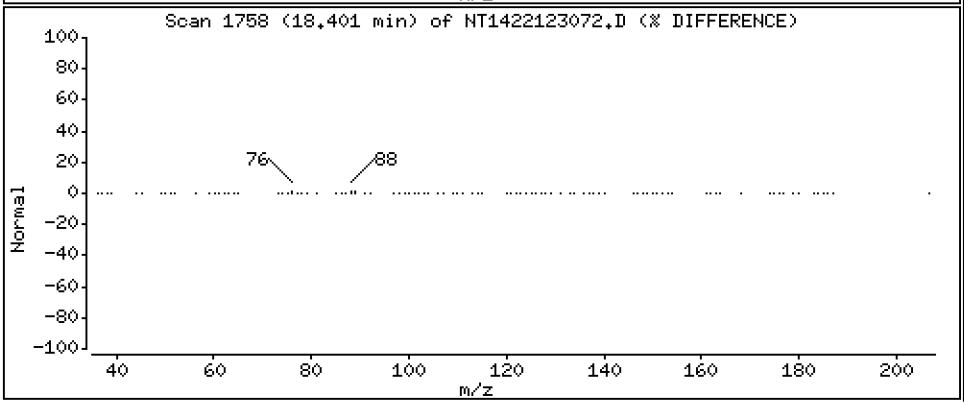












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

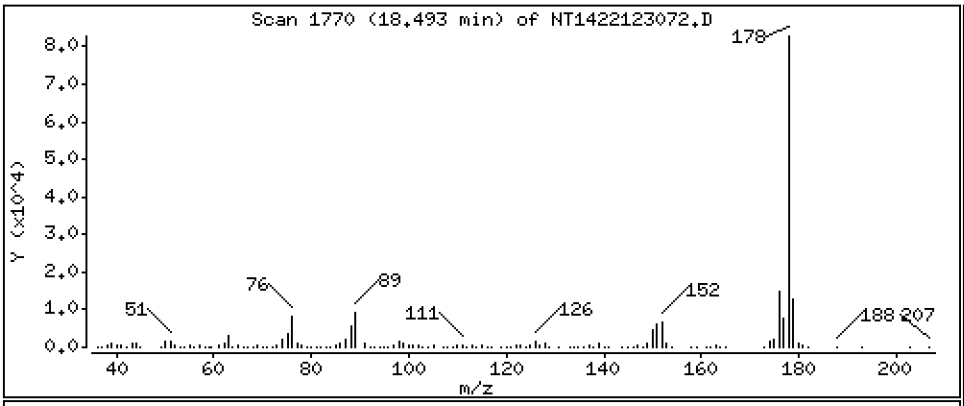
Operator: VTS

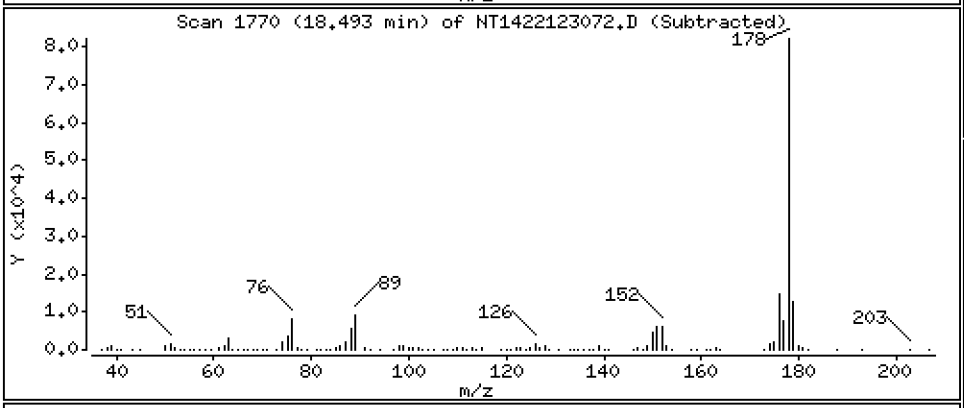
Column phase: ZB-5msi

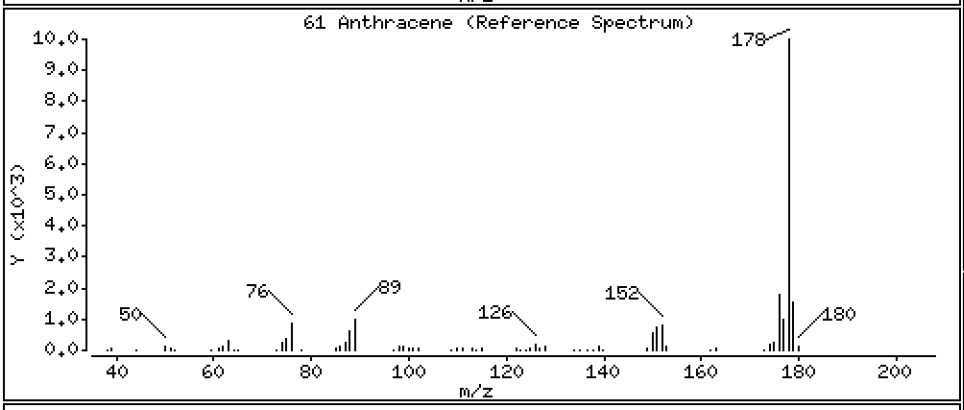
Column diameter: 0.25

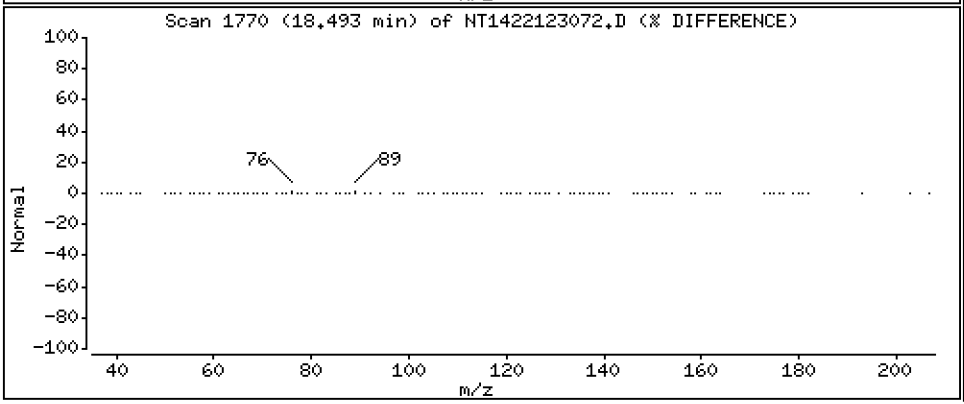
61 Anthracene

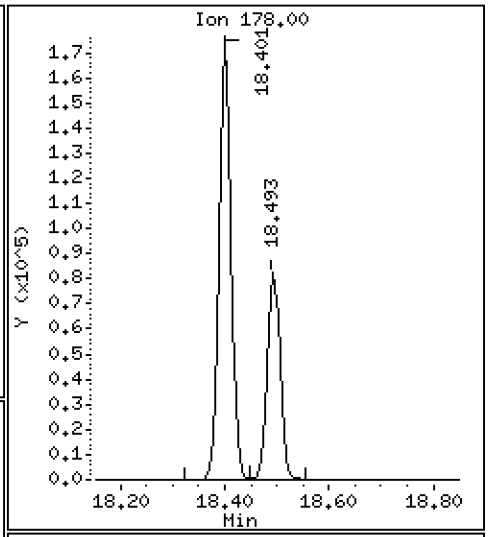
Concentration: 1.976 ug/mL

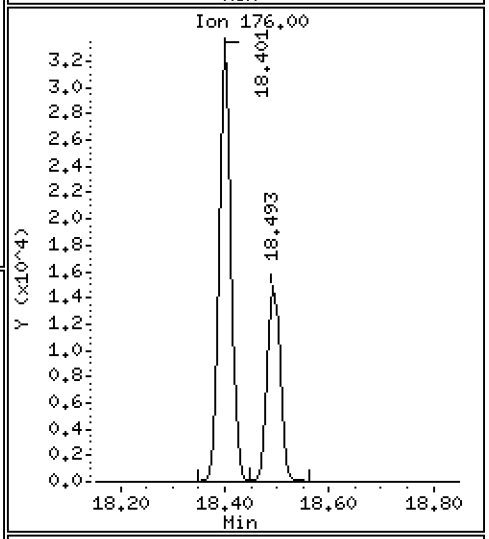


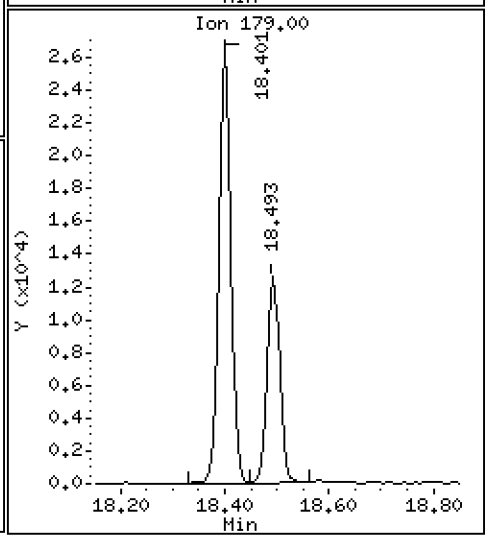












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

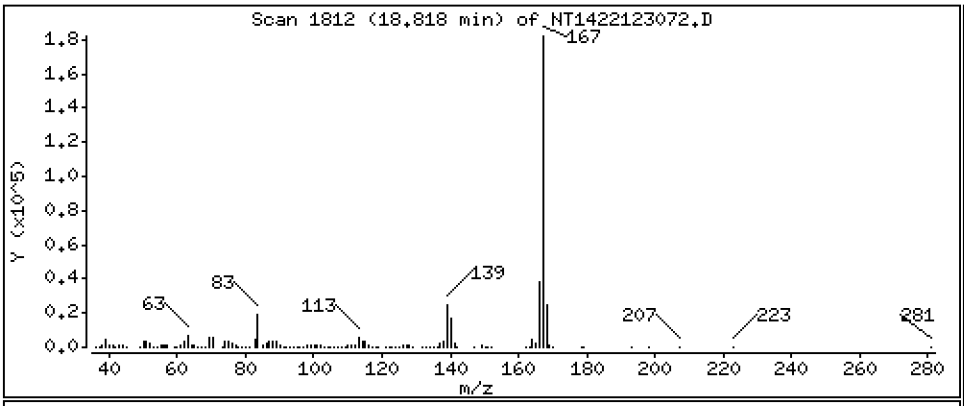
Operator: VTS

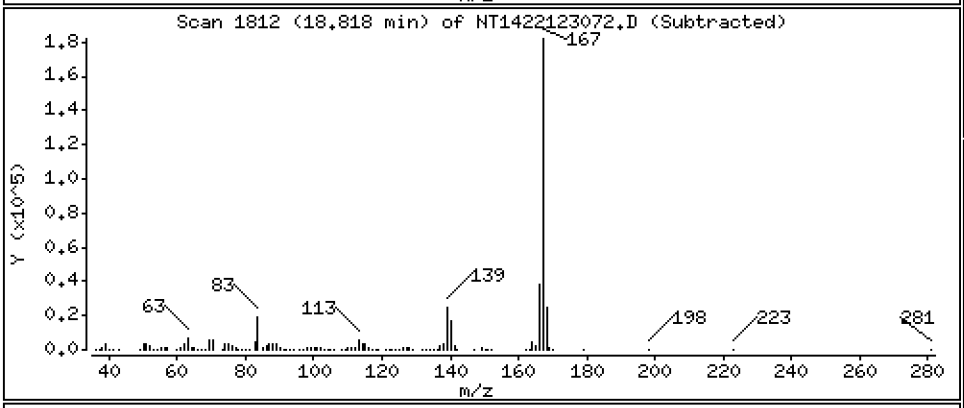
Column phase: ZB-5msi

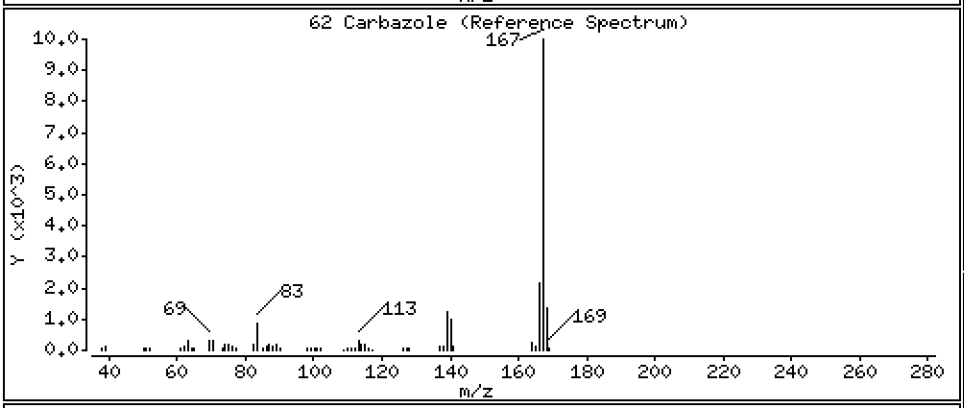
Column diameter: 0.25

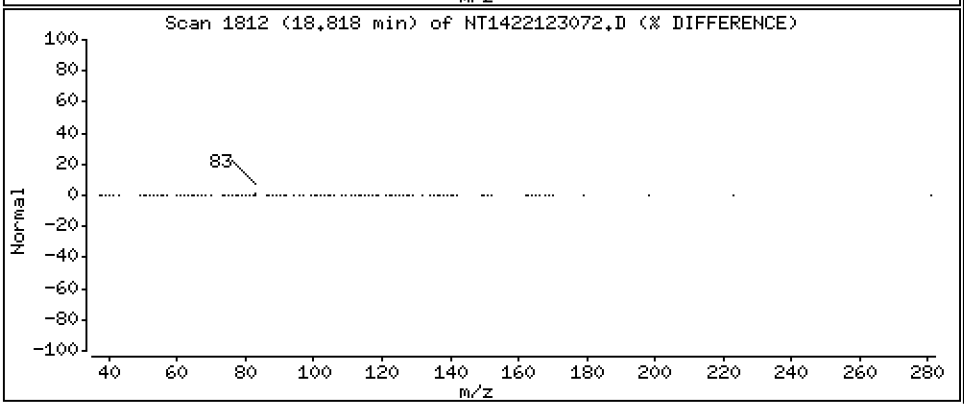
62 Carbazole

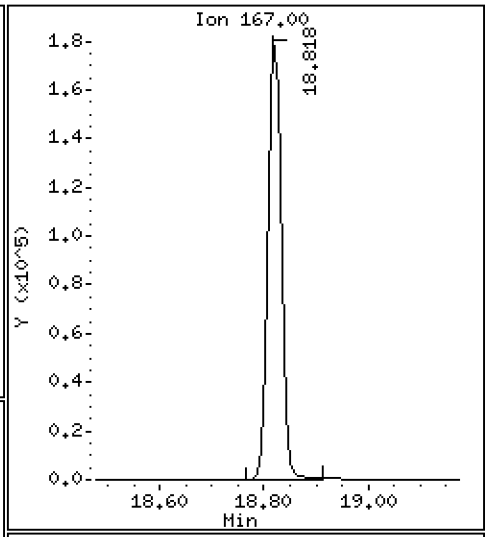
Concentration: 4.708 ug/mL

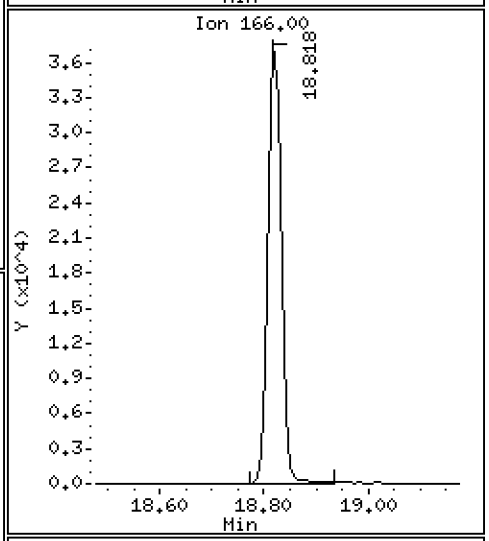


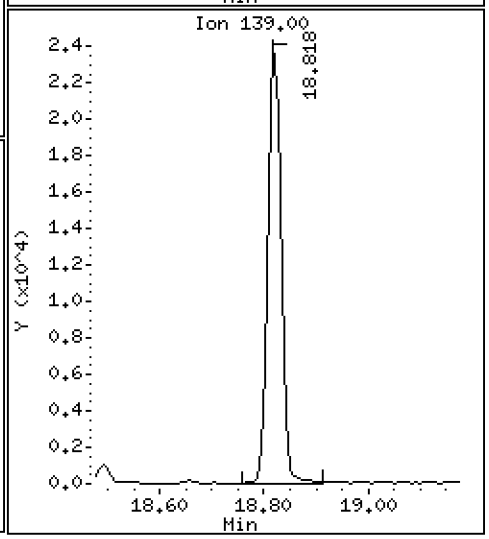












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123072.D

Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

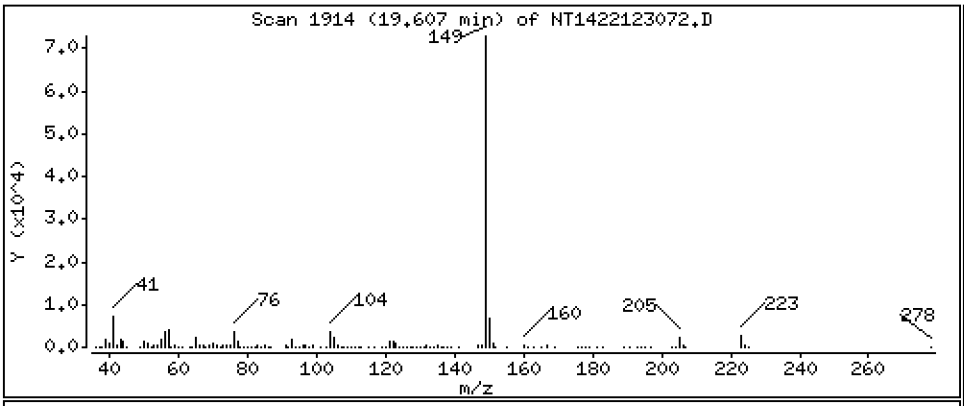
Operator: VTS

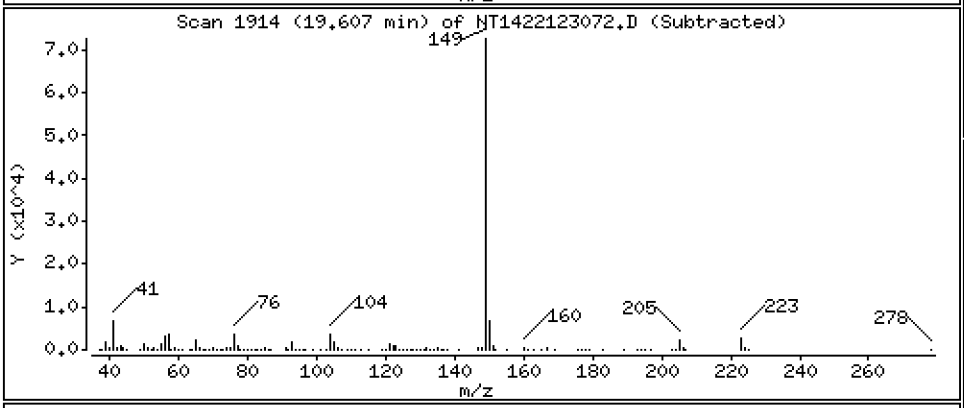
Column phase: ZB-5msi

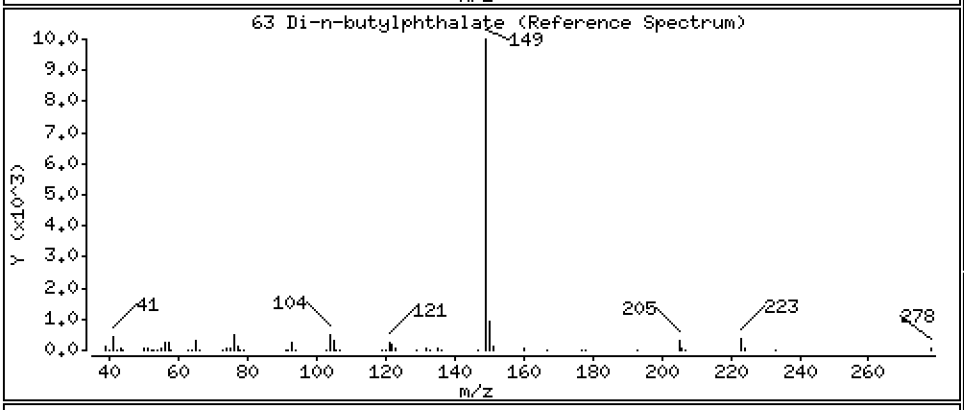
Column diameter: 0.25

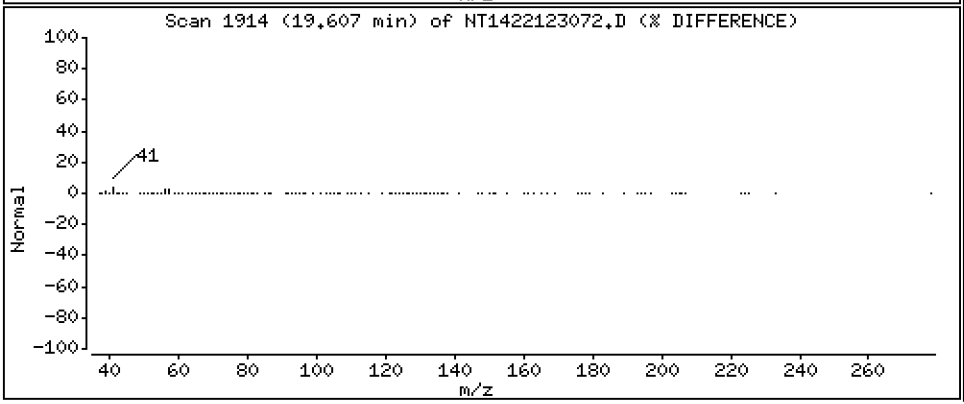
63 Di-n-butylphthalate

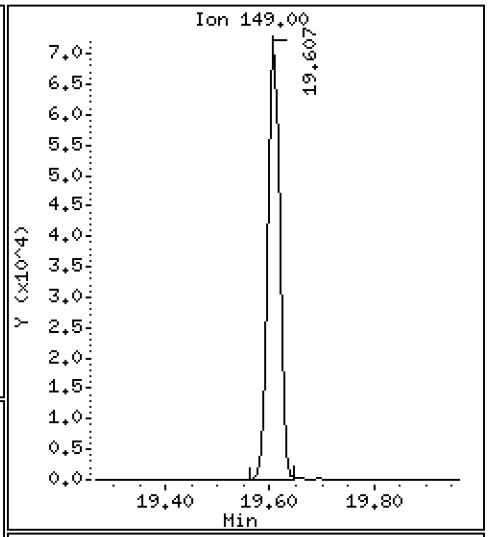
Concentration: 1.440 ug/mL

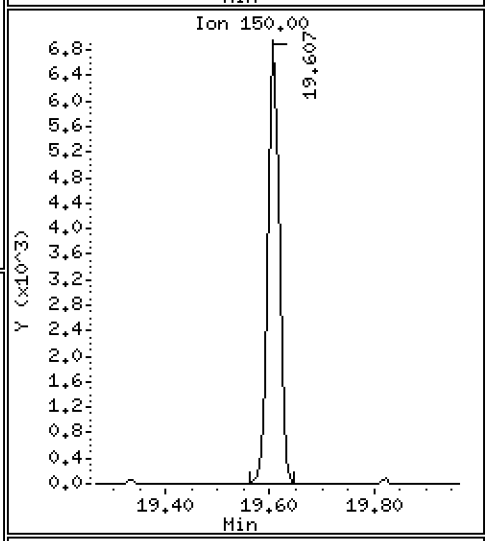


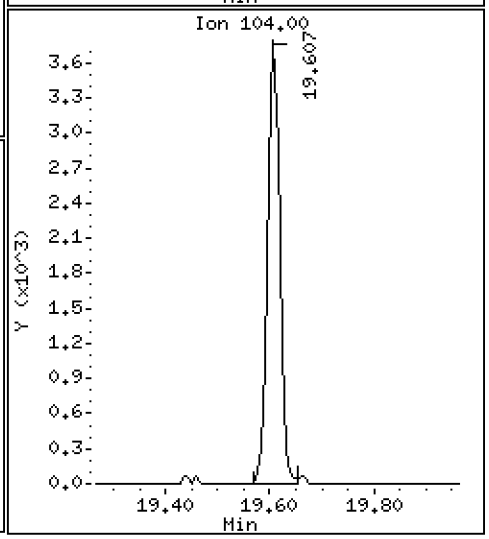












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

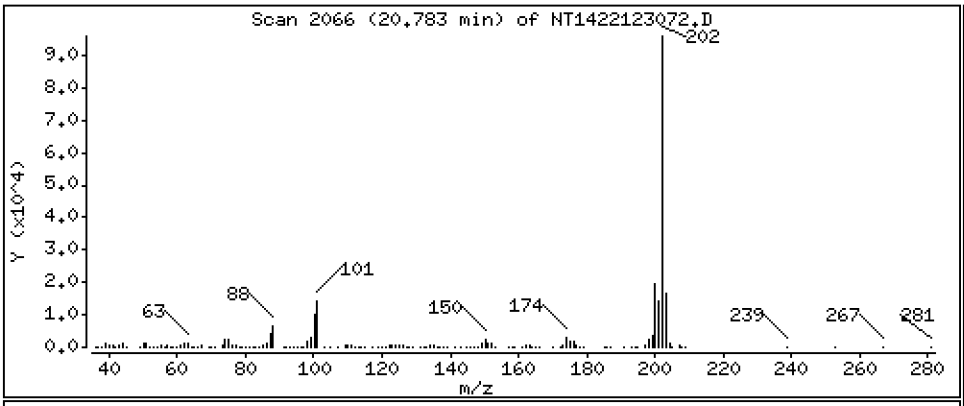
Operator: VTS

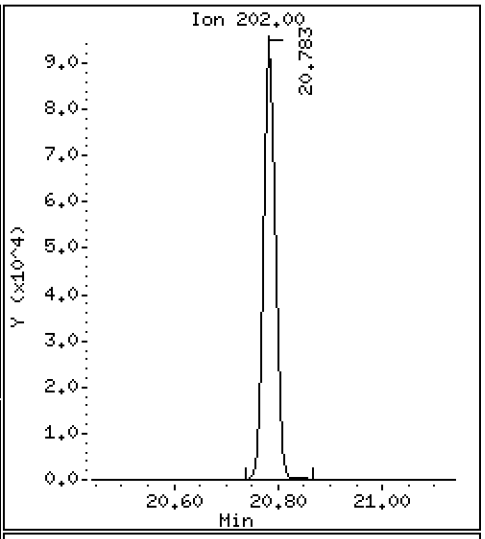
Column phase: ZB-5msi

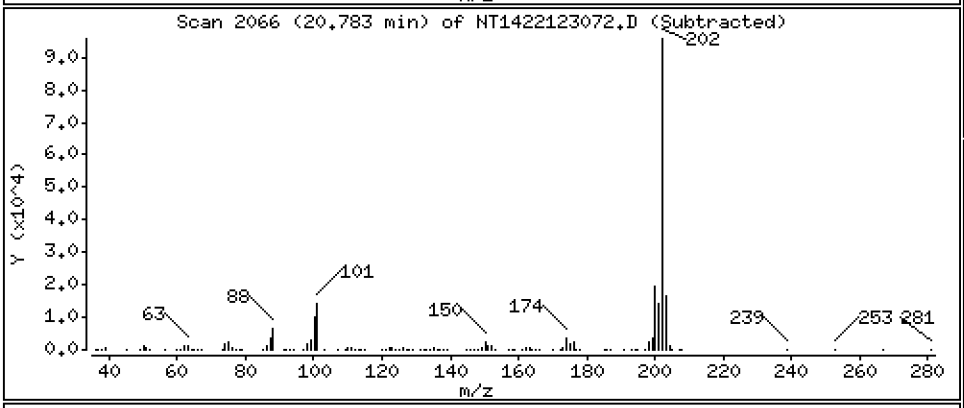
Column diameter: 0.25

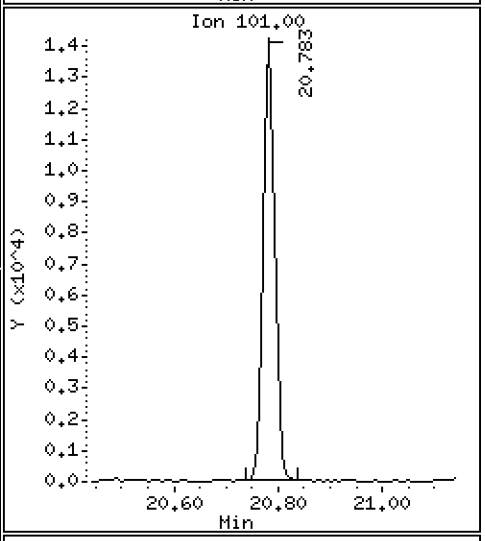
64 Fluoranthene

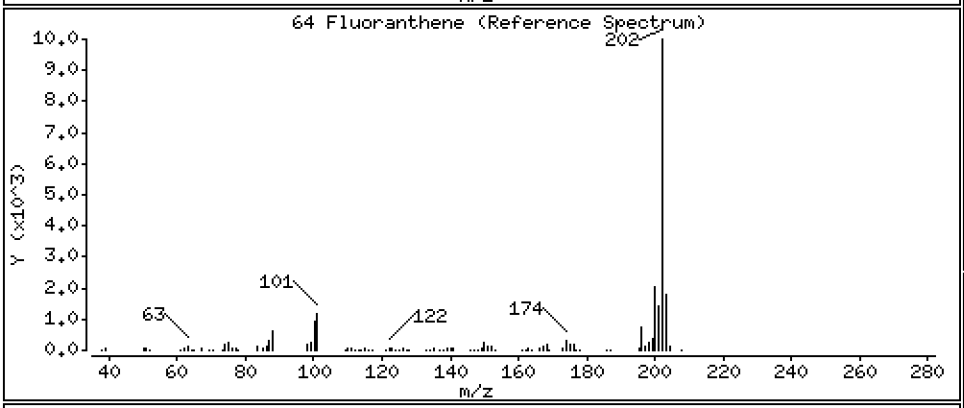
Concentration: 2.131 ug/mL

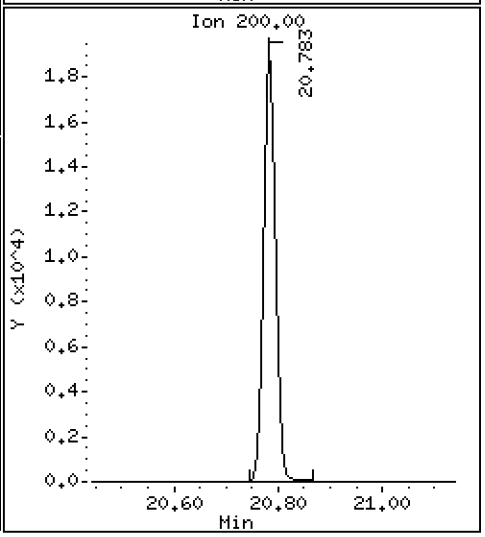


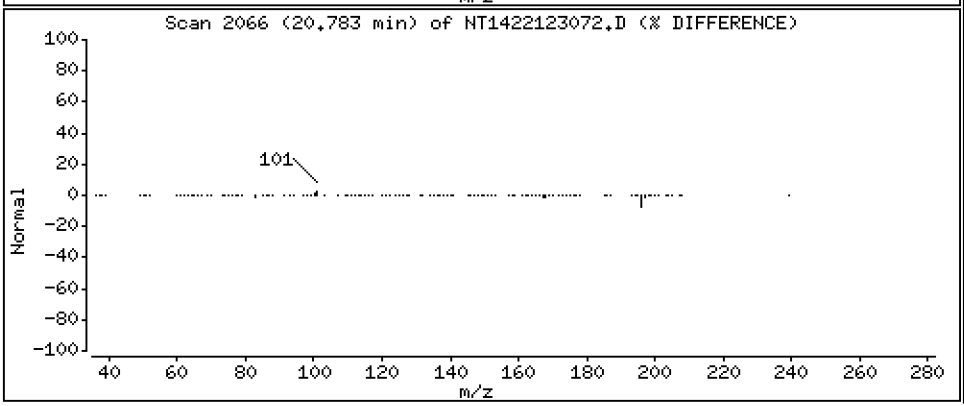












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

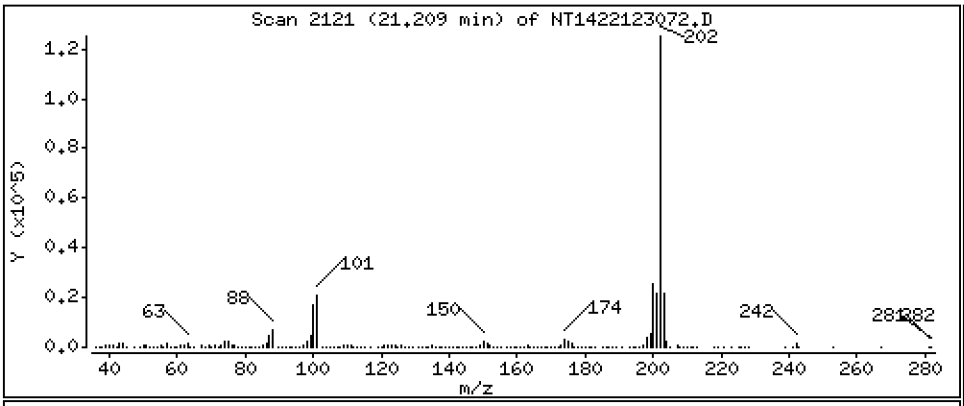
Operator: VTS

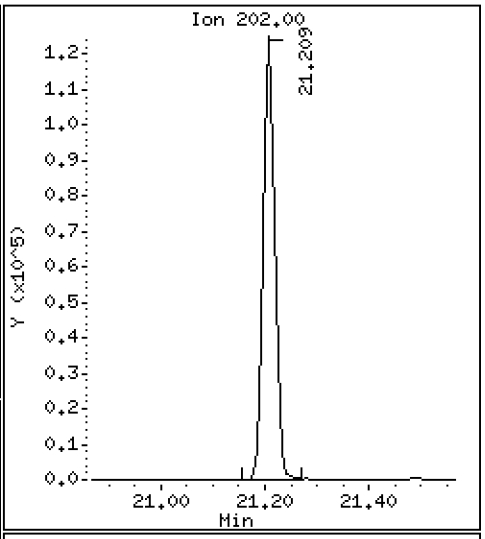
Column phase: ZB-5msi

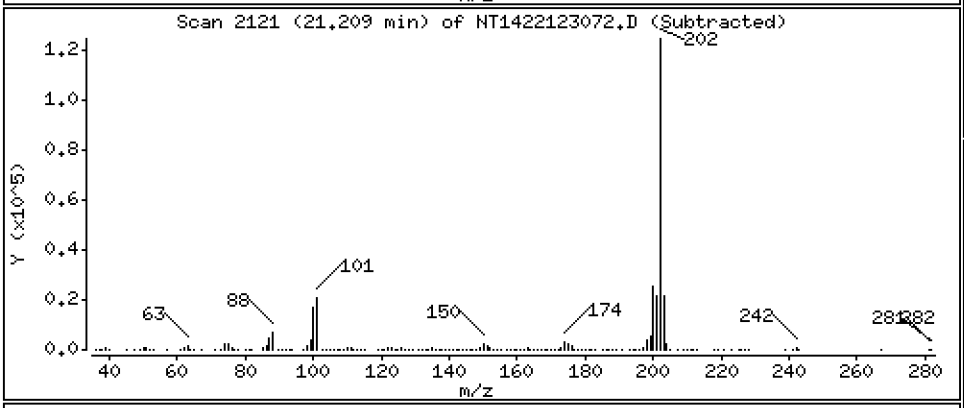
Column diameter: 0.25

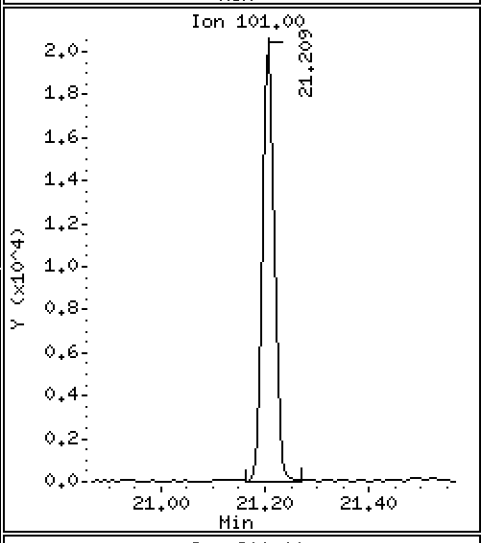
65 Pyrene

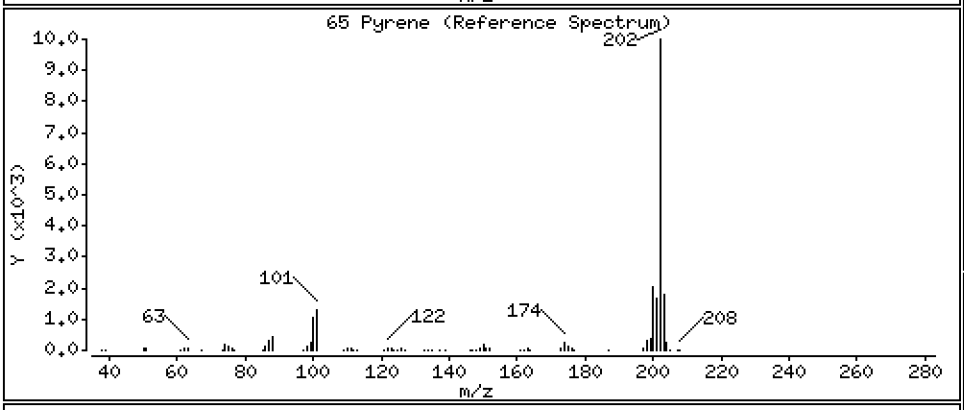
Concentration: 2.659 ug/mL

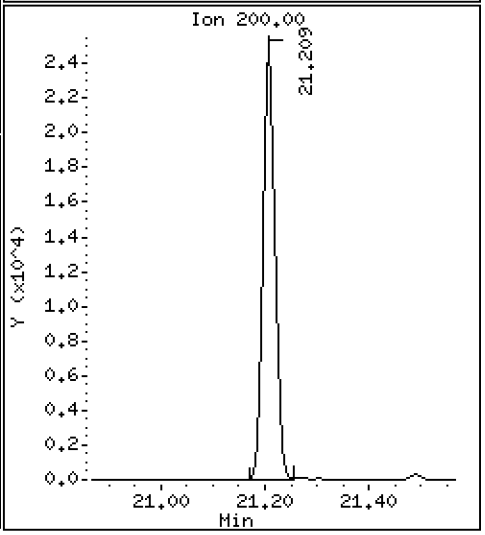


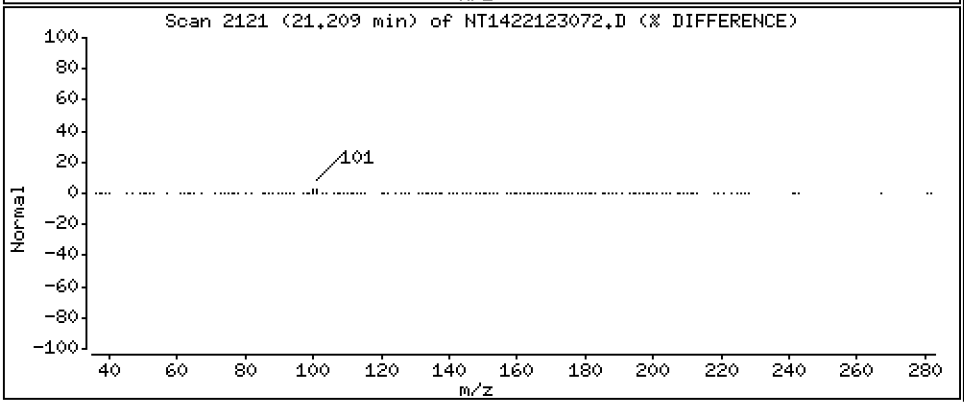












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

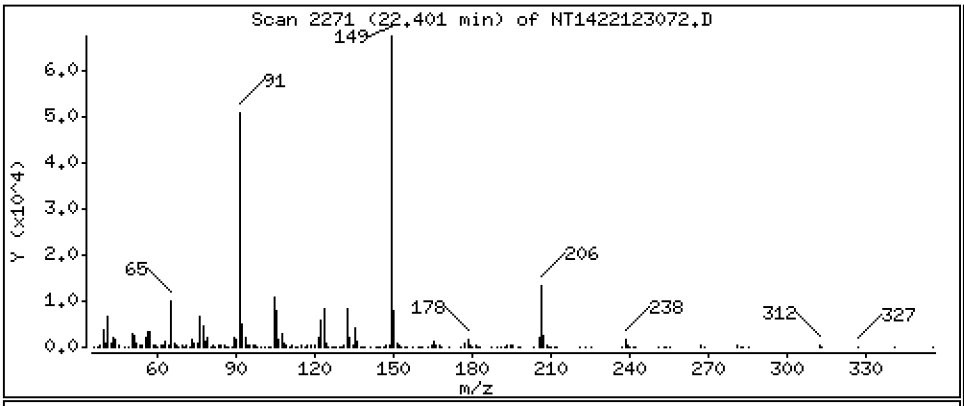
Operator: VTS

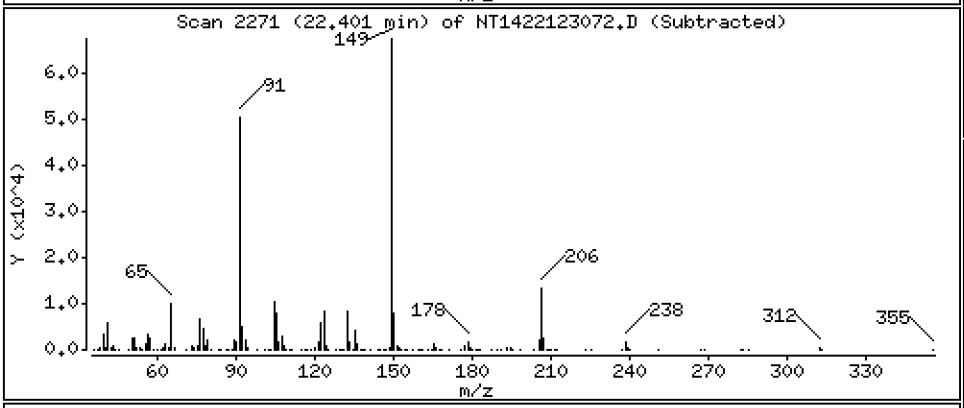
Column phase: ZB-5msi

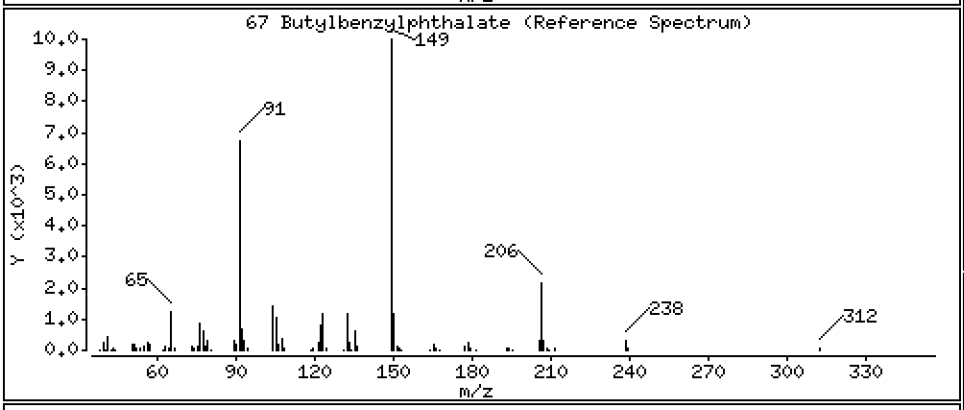
Column diameter: 0.25

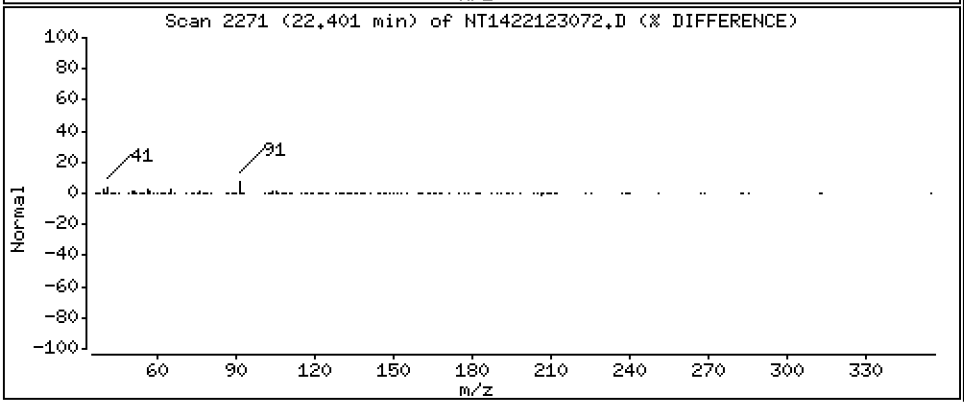
67 Butylbenzylphthalate

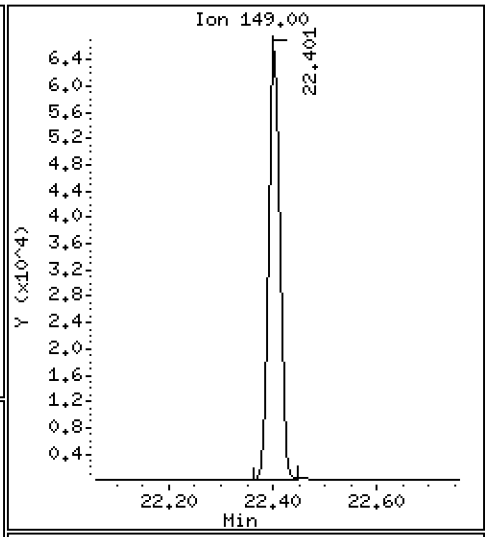
Concentration: 3.484 ug/mL

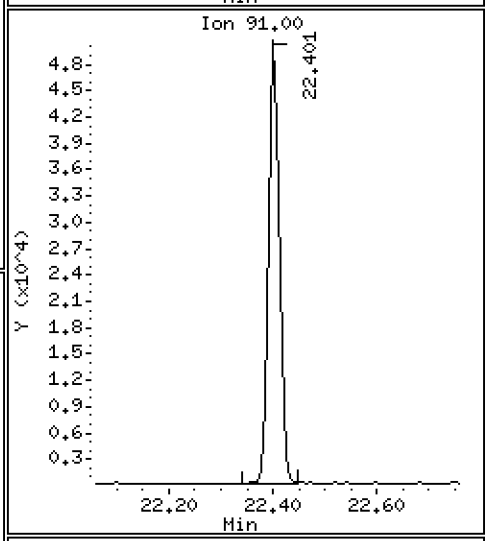


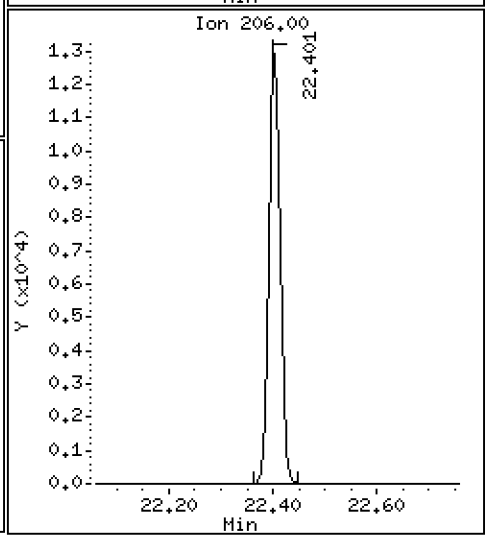












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

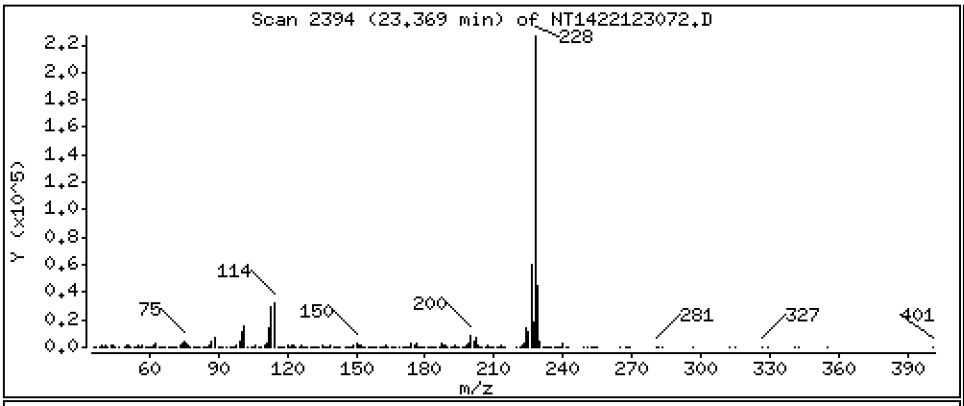
Operator: VTS

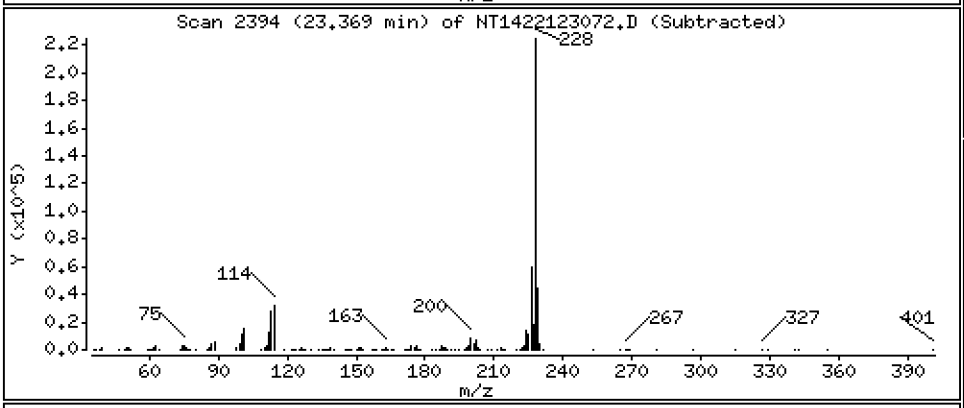
Column phase: ZB-5msi

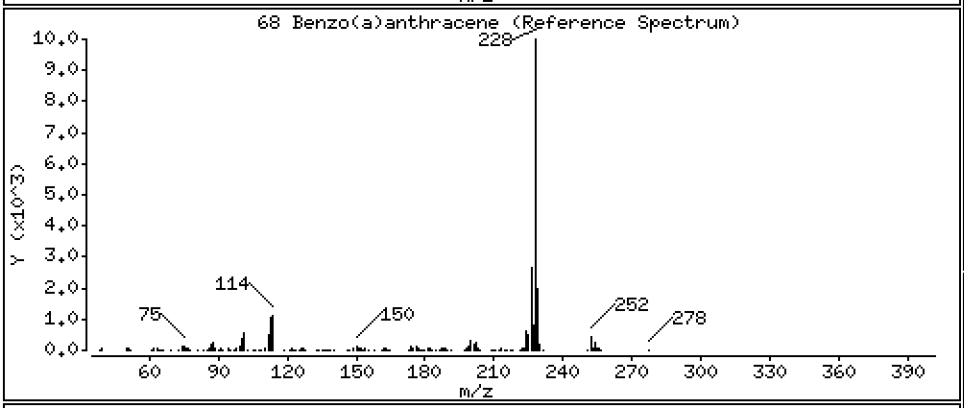
Column diameter: 0.25

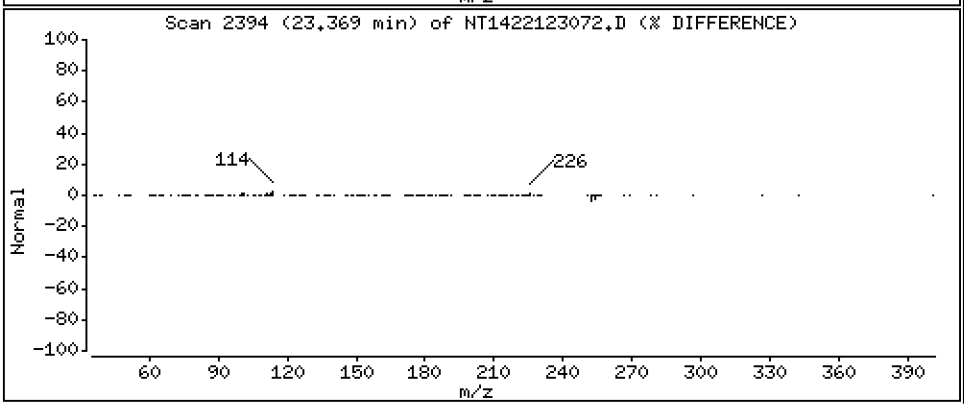
68 Benzo(a)anthracene

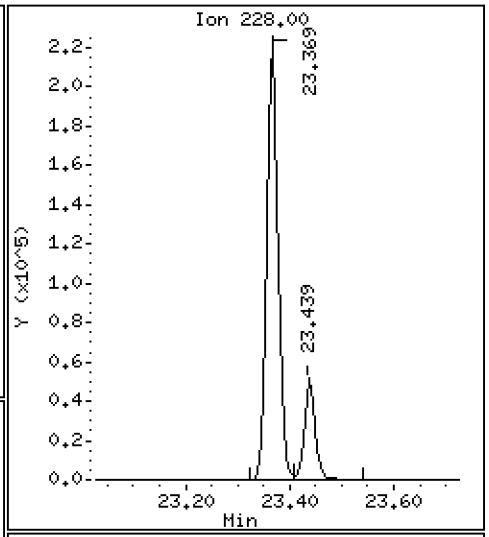
Concentration: 5.154 ug/mL

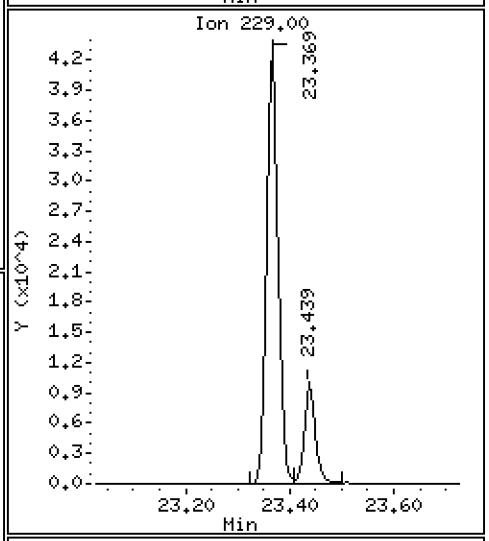


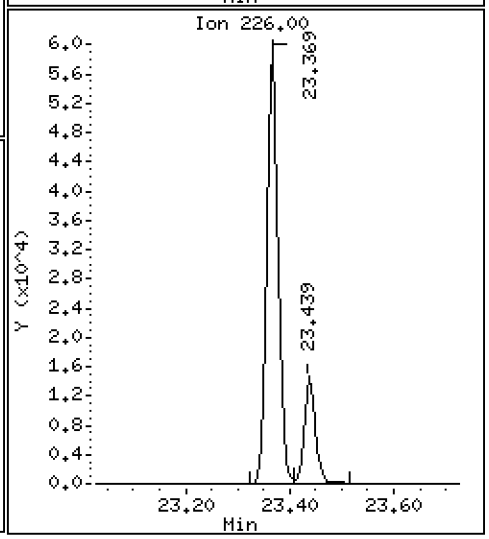












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

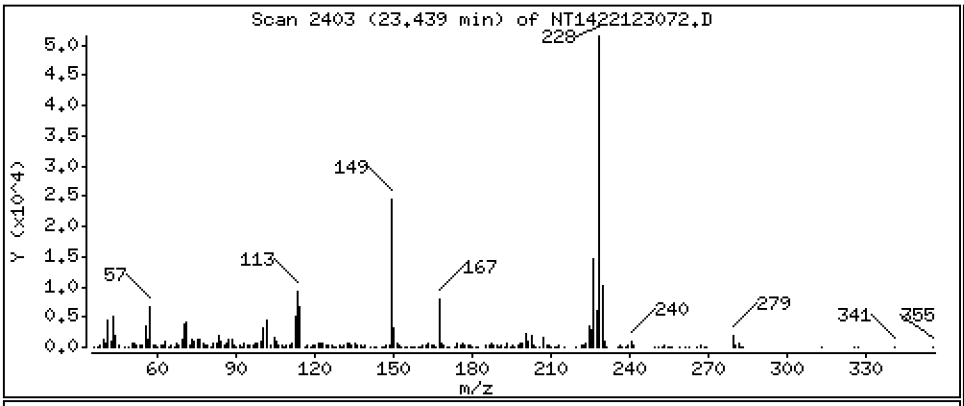
Operator: VTS

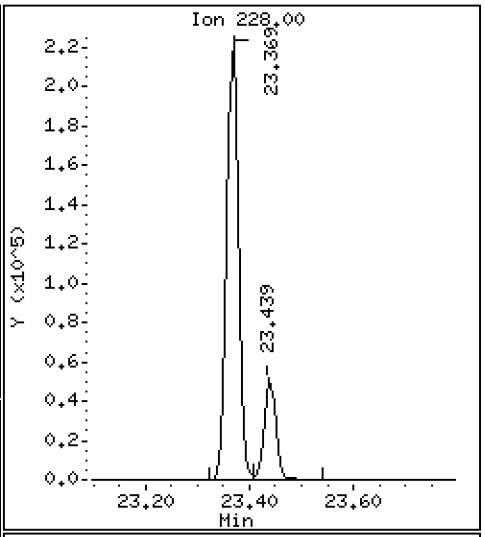
Column phase: ZB-5msi

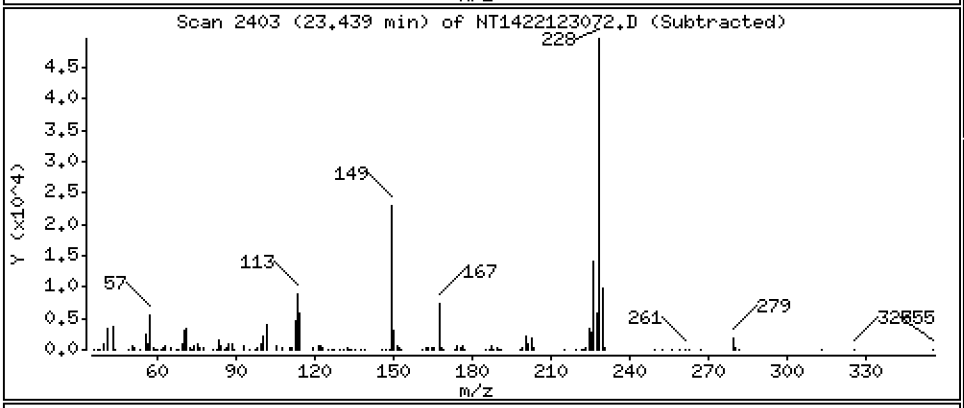
Column diameter: 0.25

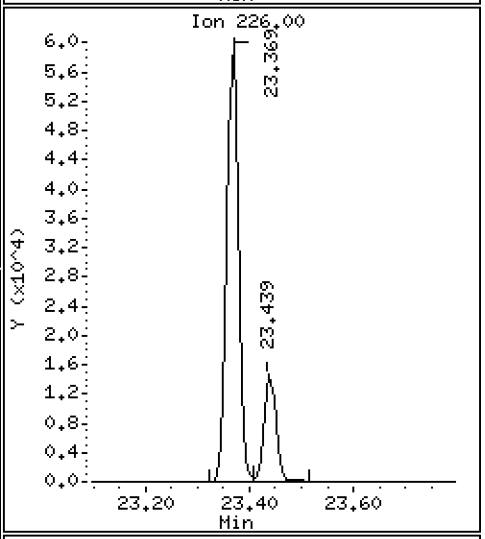
71 Chrysene

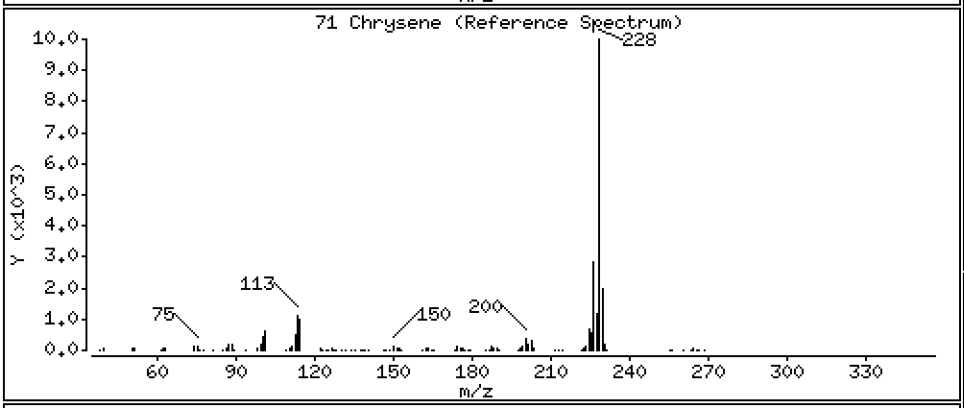
Concentration: 1.237 ug/mL

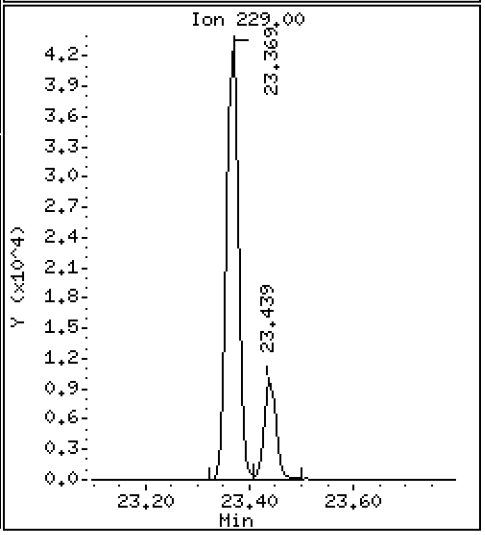


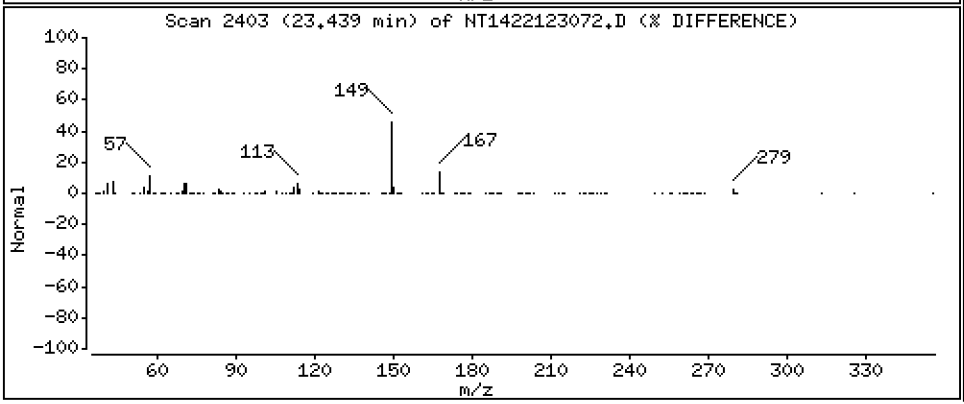












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

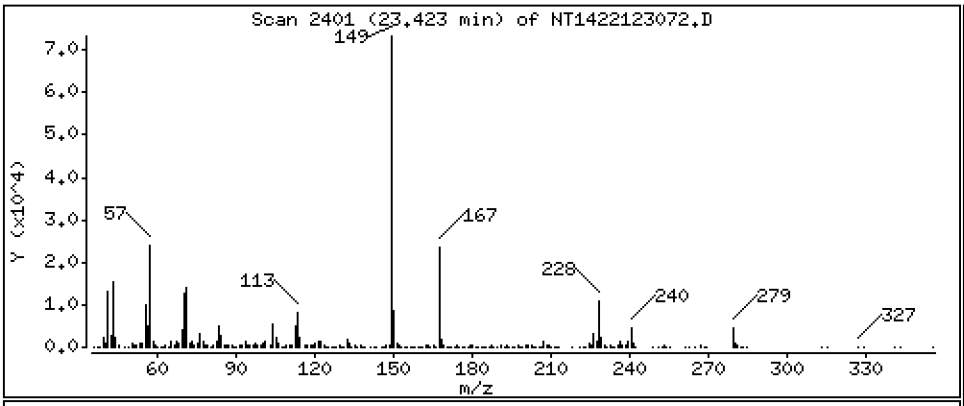
Operator: VTS

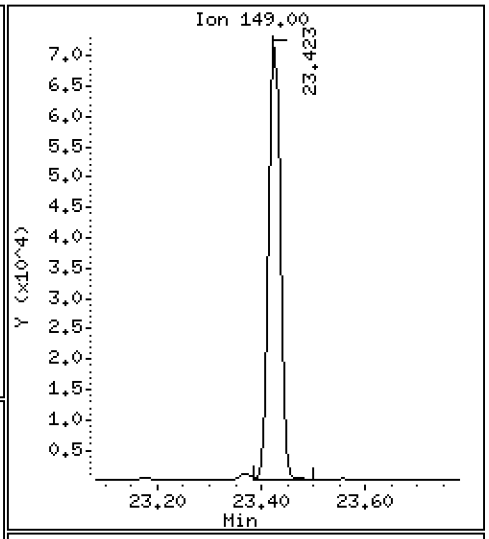
Column phase: ZB-5msi

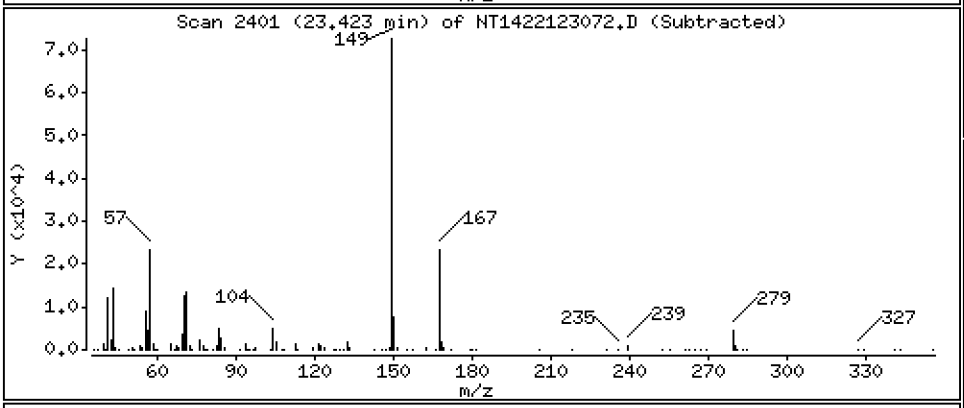
Column diameter: 0.25

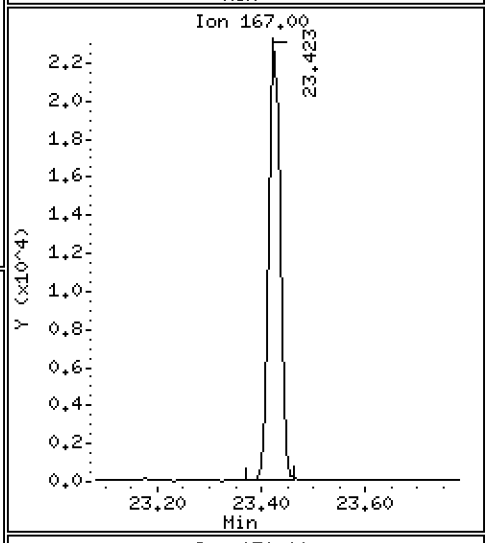
72 bis(2-Ethylhexyl)phthalate

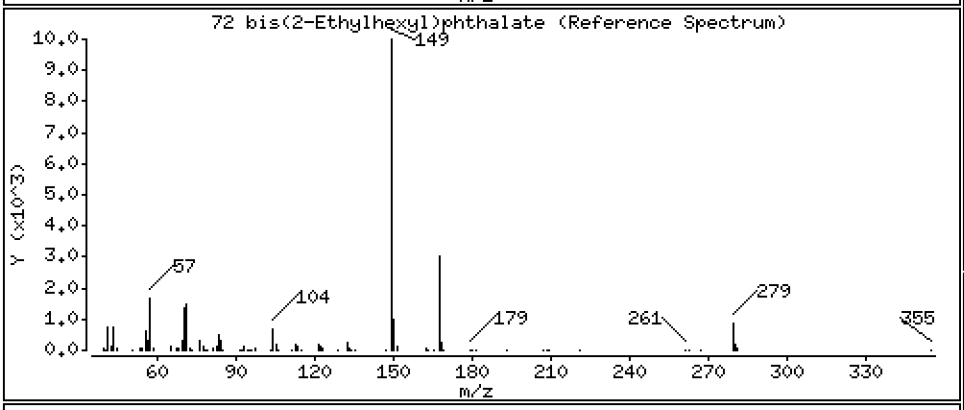
Concentration: 2.671 ug/mL

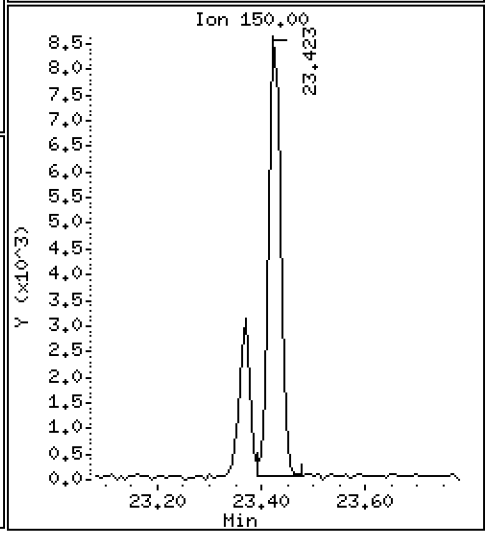


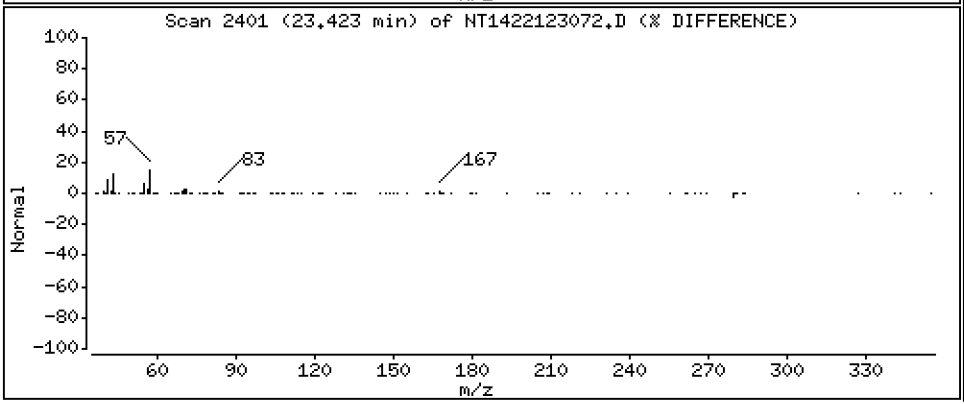












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

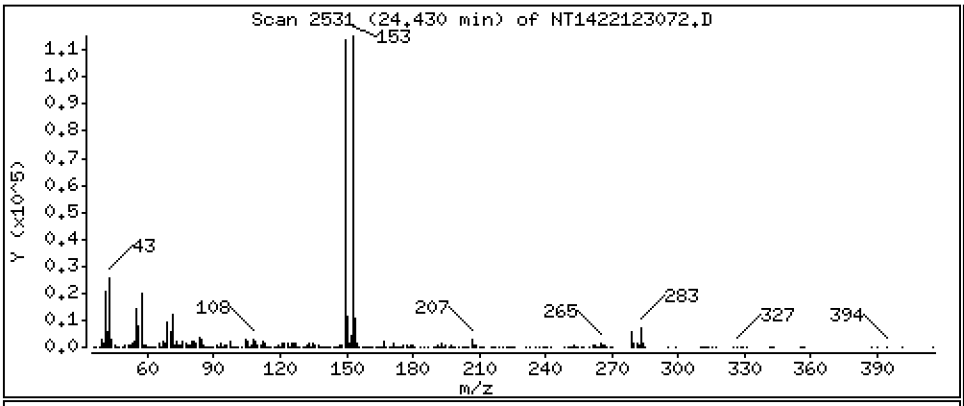
Operator: VTS

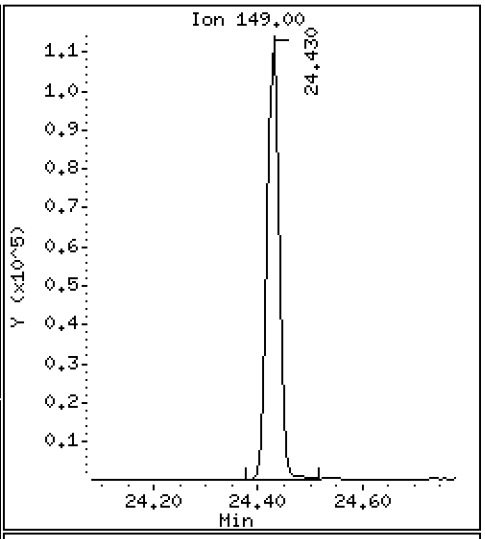
Column phase: ZB-5msi

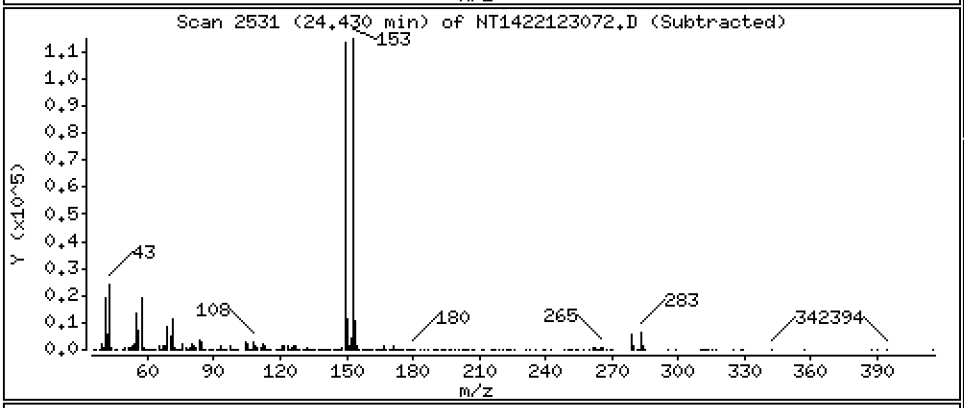
Column diameter: 0.25

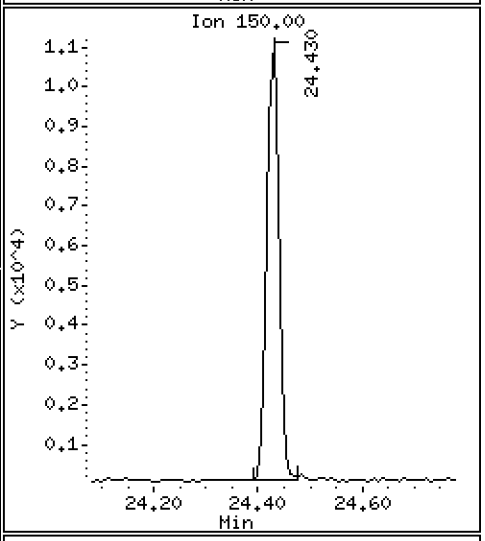
73 Di-n-octylphthalate

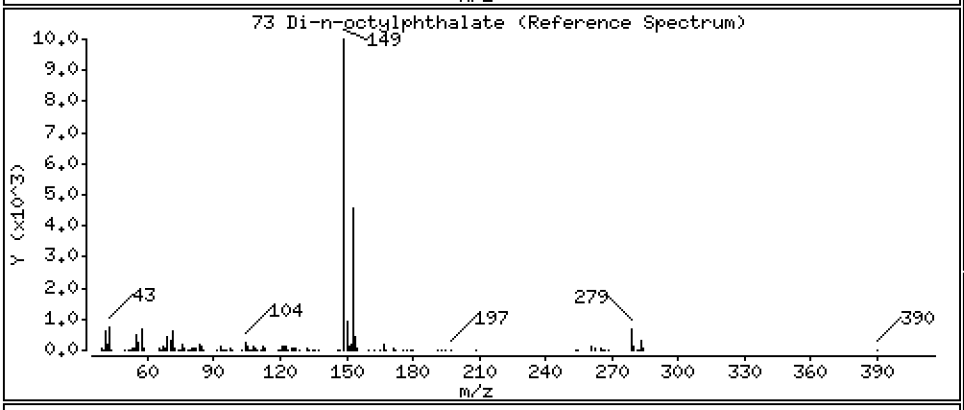
Concentration: 2.012 ug/mL

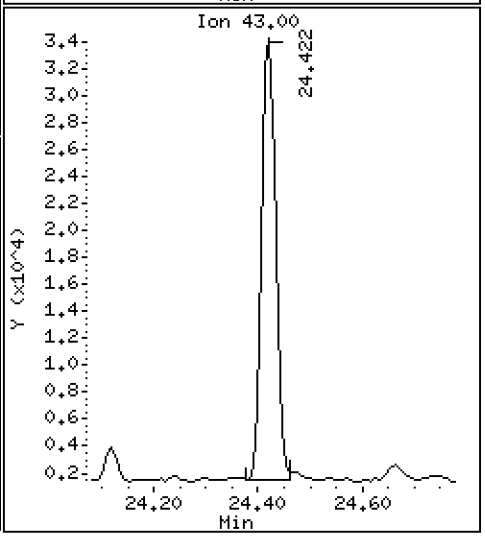


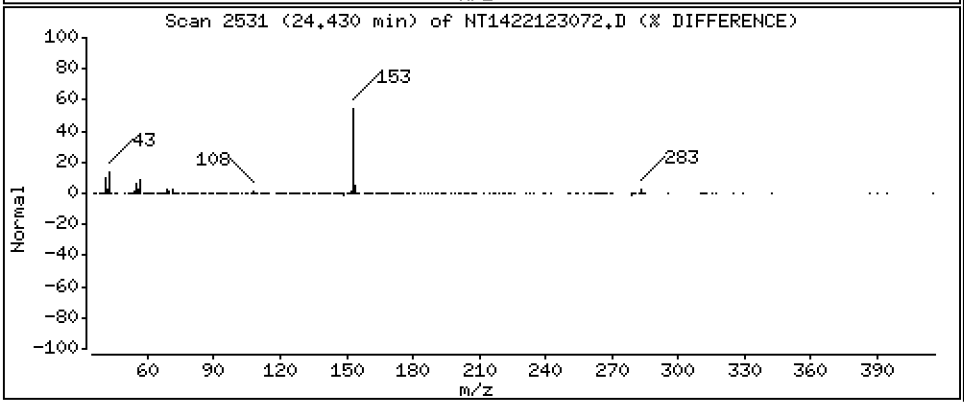












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

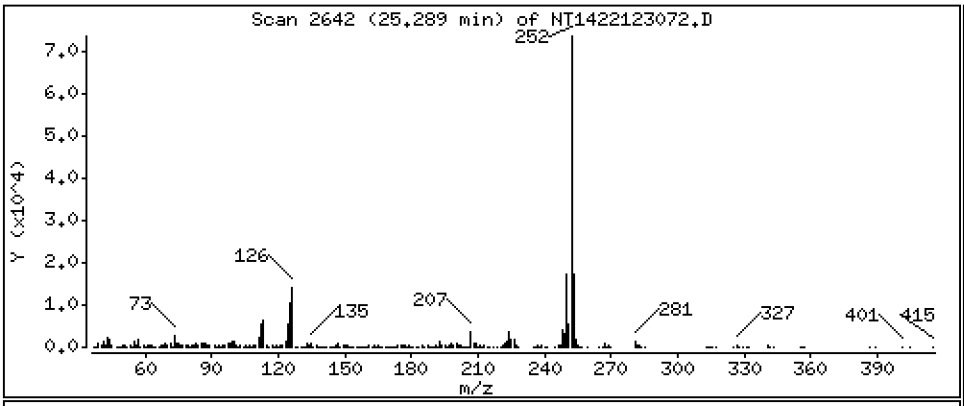
Operator: VTS

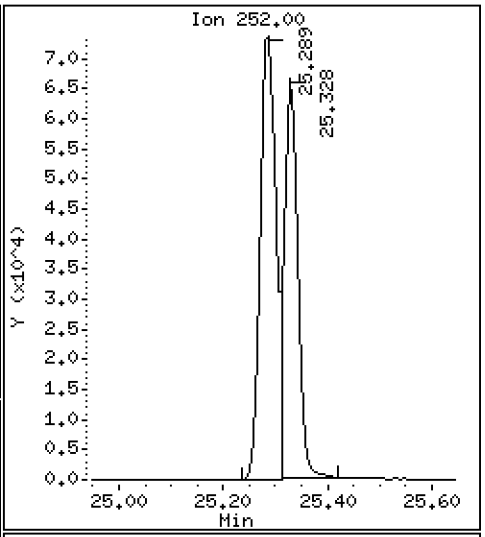
Column phase: ZB-5msi

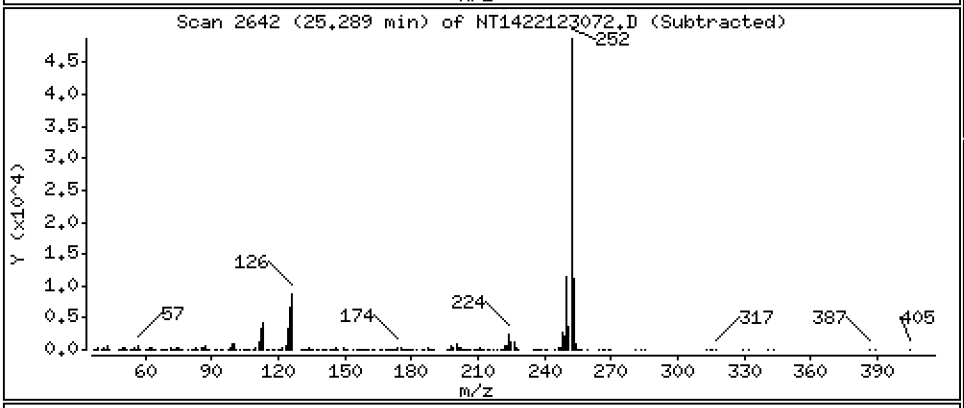
Column diameter: 0.25

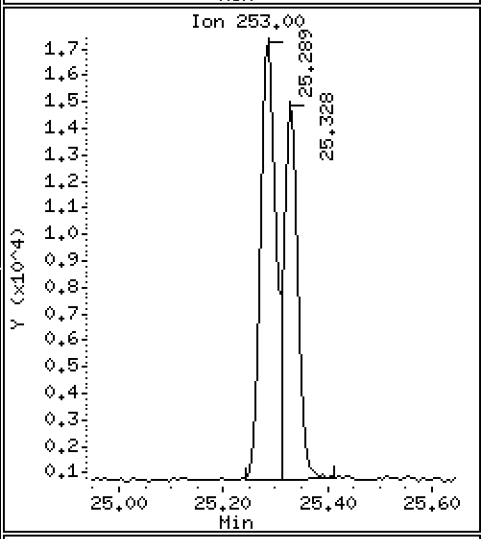
74 Benzo(b)fluoranthene

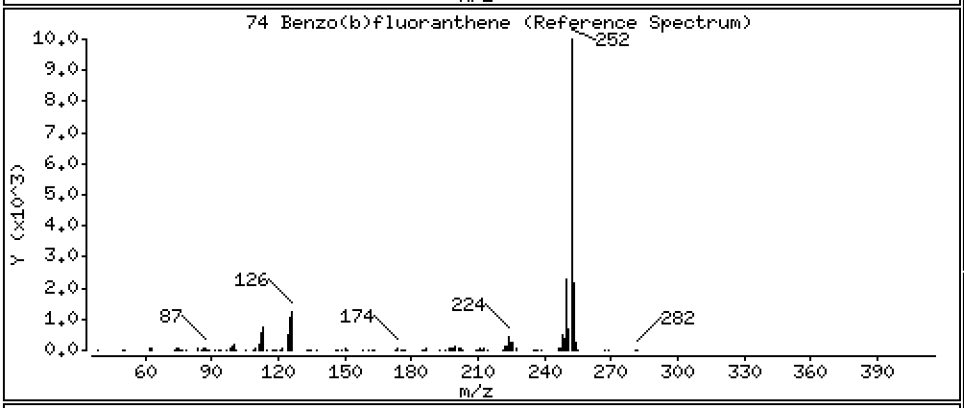
Concentration: 2.798 ug/mL

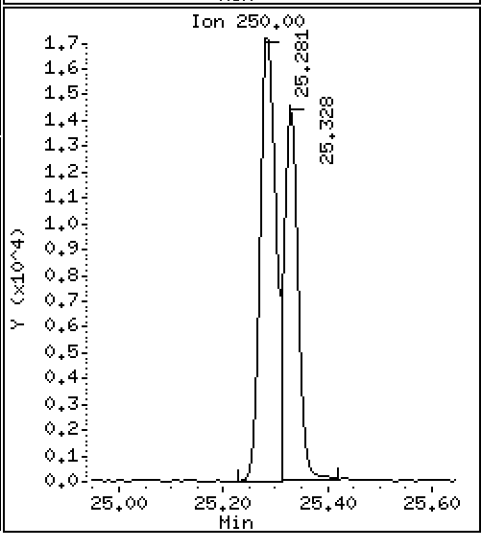


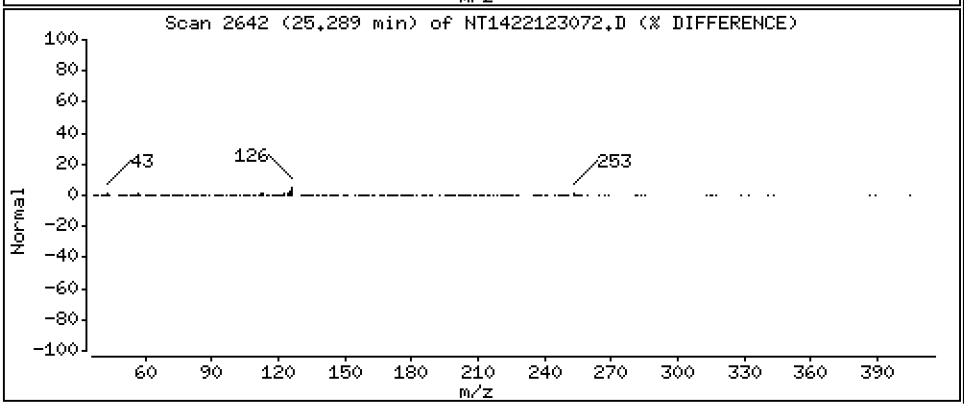












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

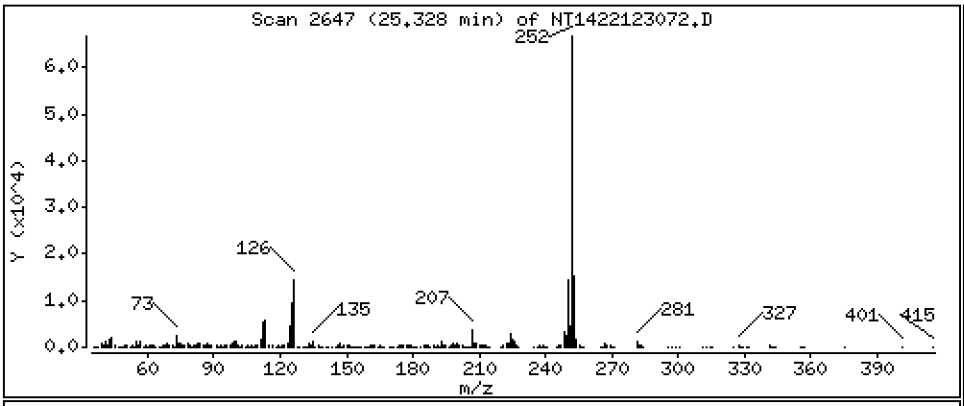
Operator: VTS

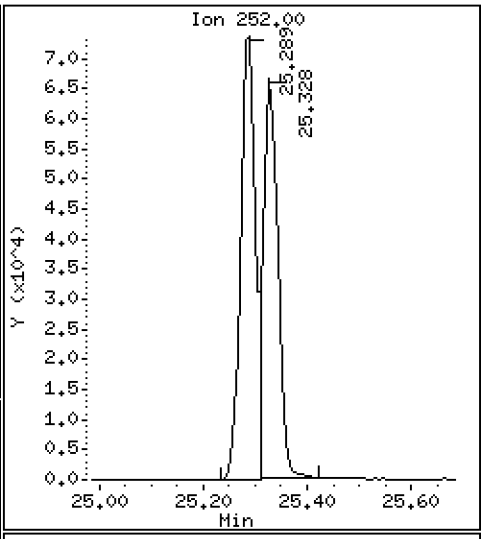
Column phase: ZB-5msi

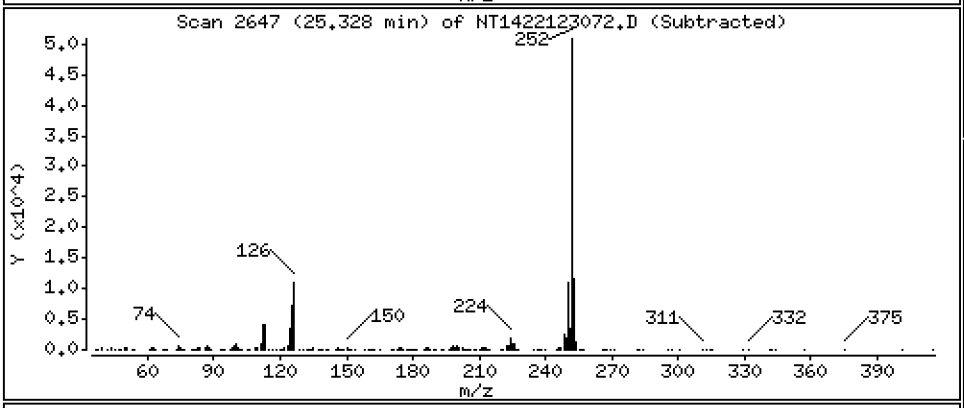
Column diameter: 0.25

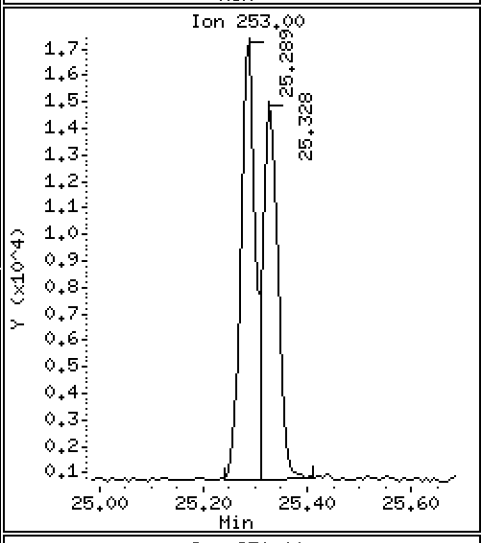
75 Benzo(k)fluoranthene

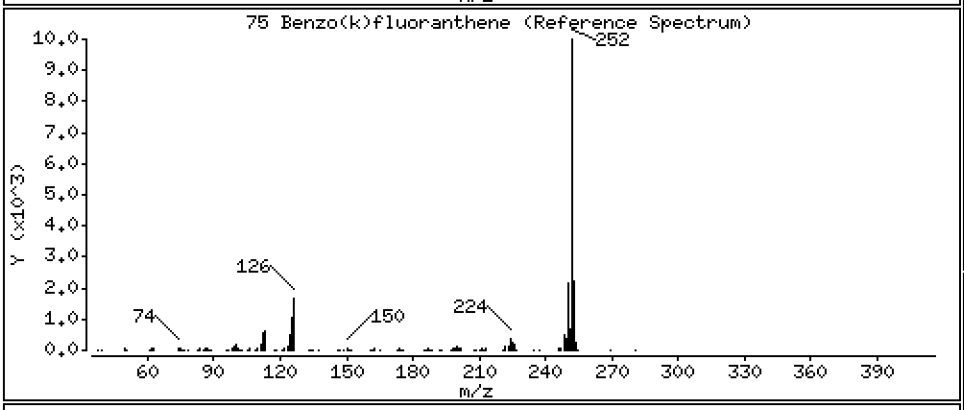
Concentration: 2.215 ug/mL

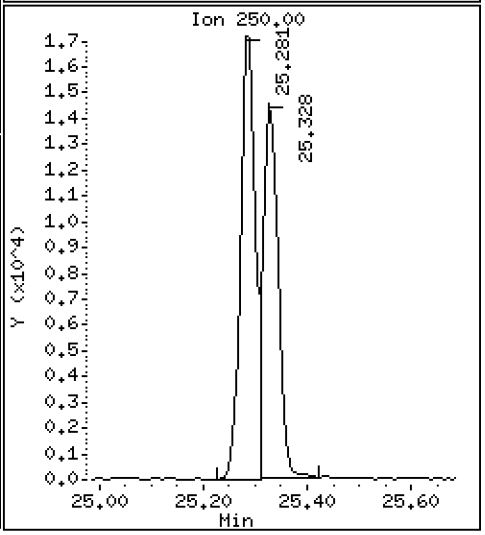


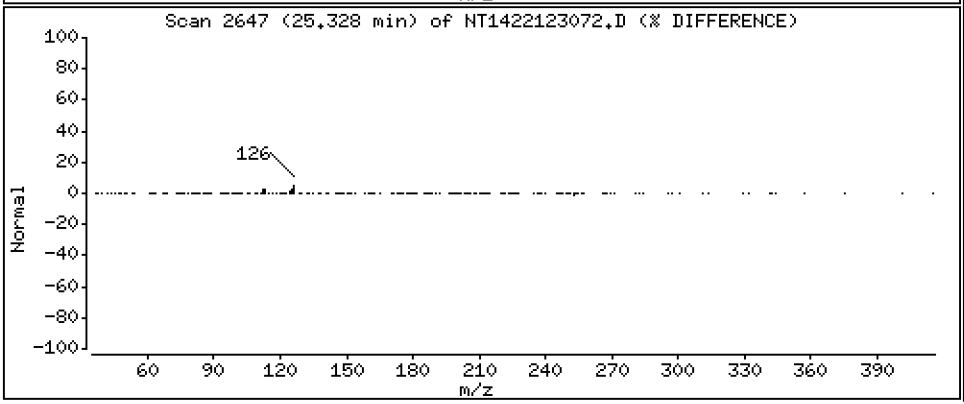












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

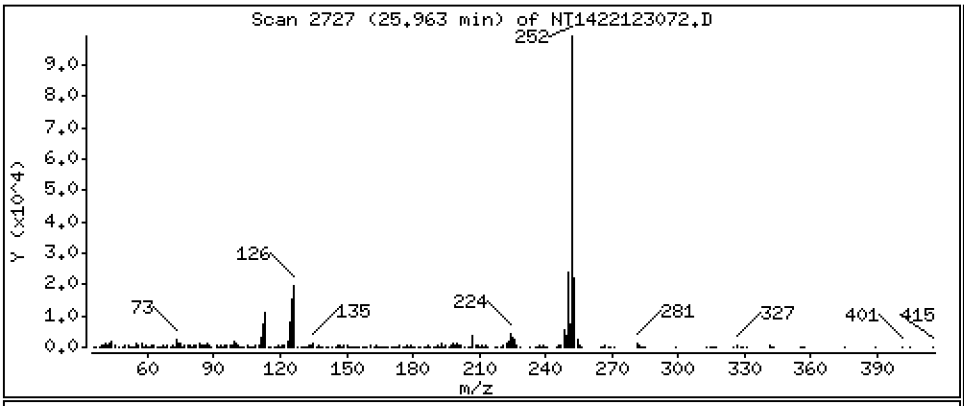
Operator: VTS

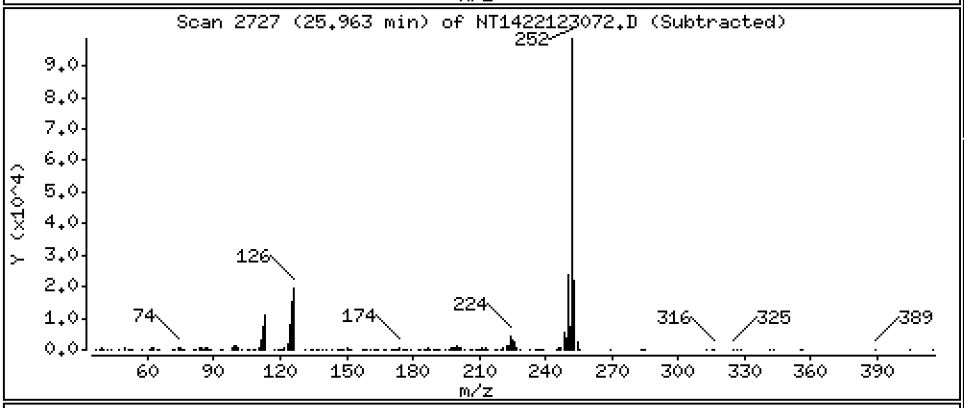
Column phase: ZB-5msi

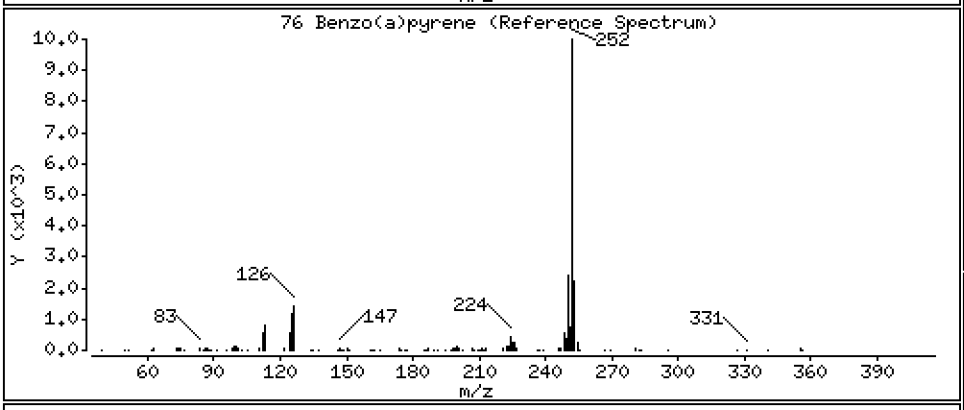
Column diameter: 0.25

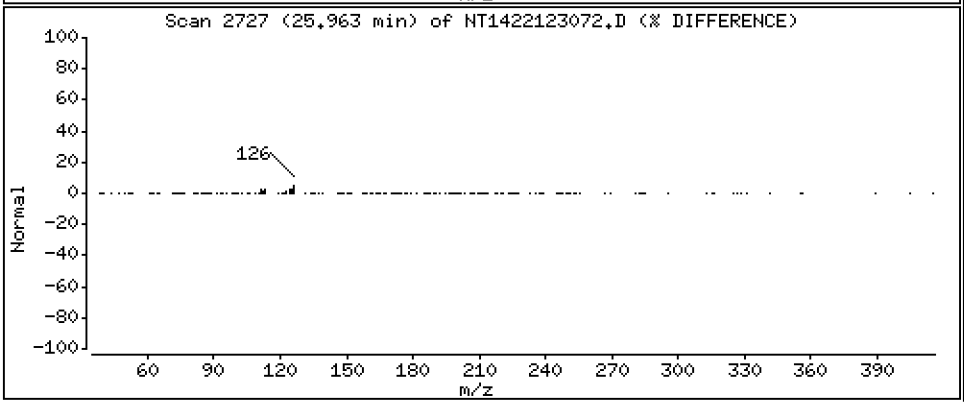
76 Benzo(a)pyrene

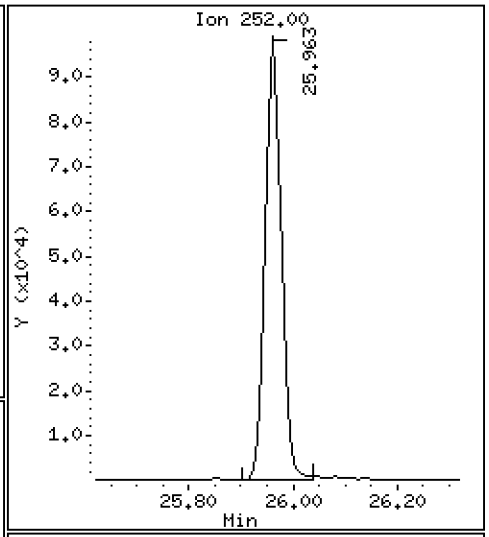
Concentration: 4.447 ug/mL

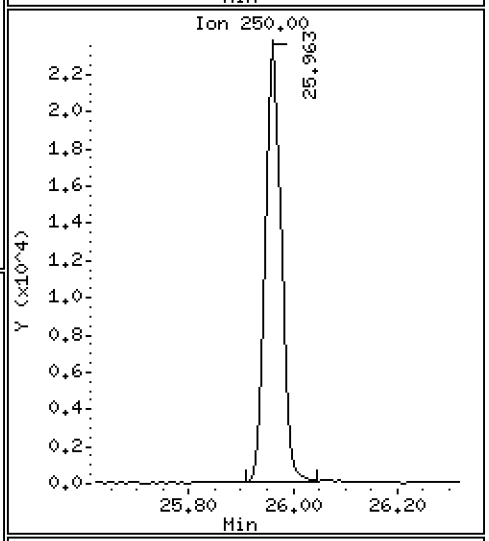


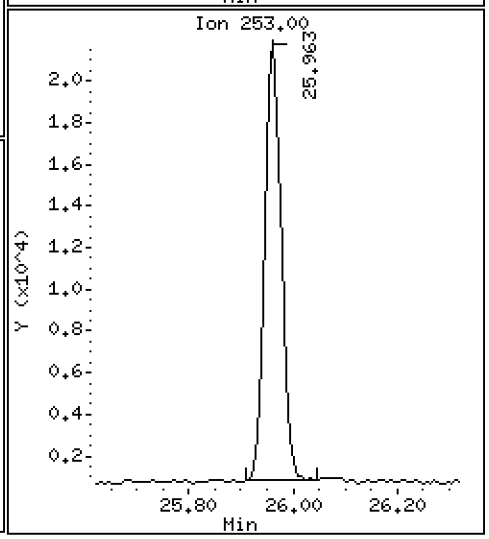












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

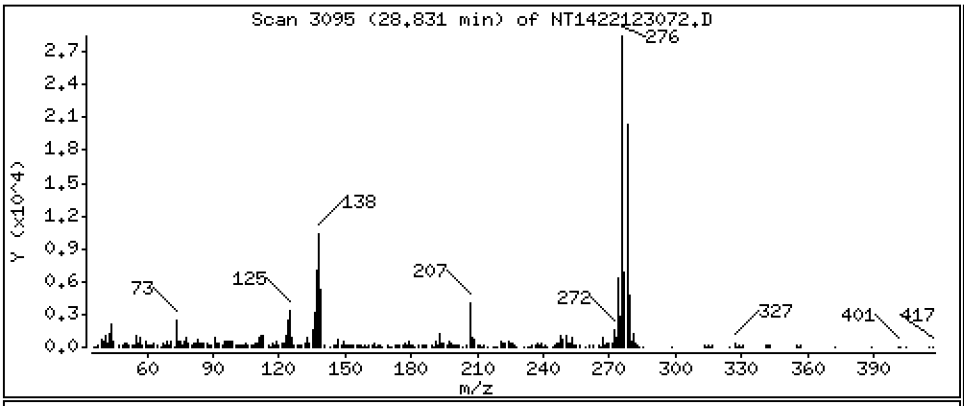
Operator: VTS

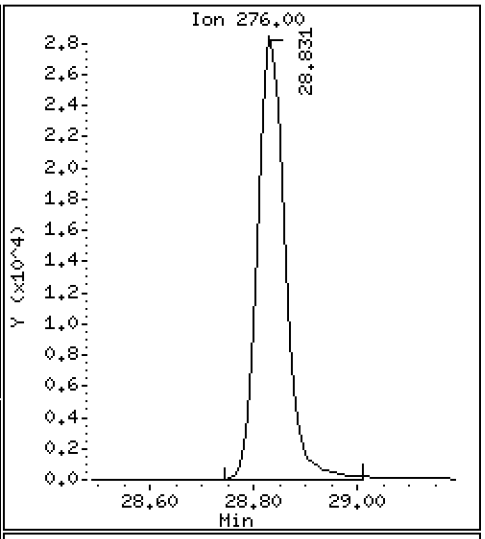
Column phase: ZB-5msi

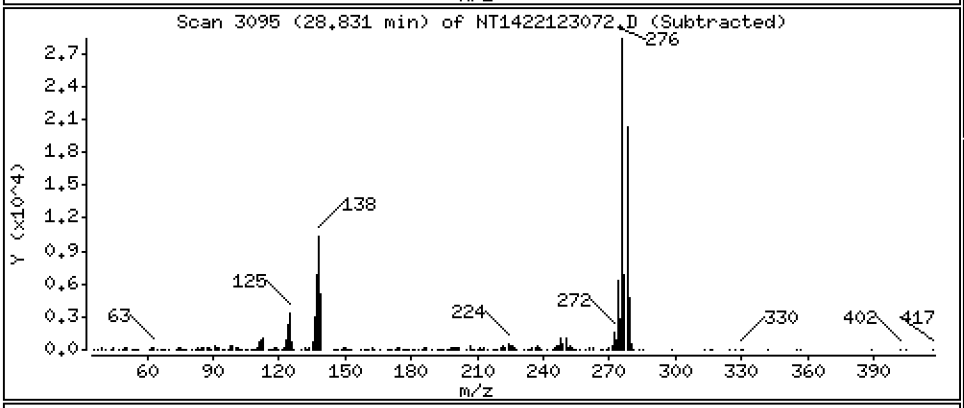
Column diameter: 0.25

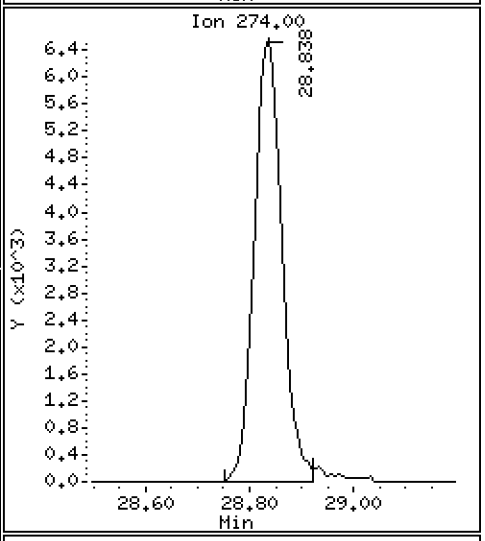
78 Indeno(1,2,3-cd)pyrene

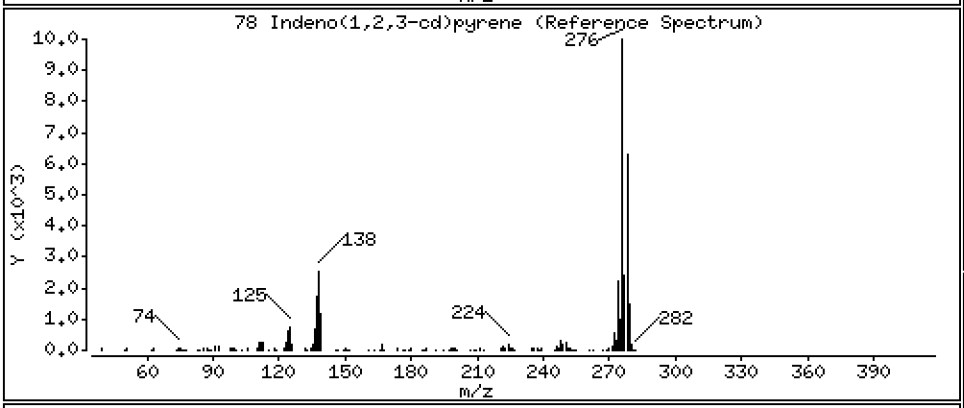
Concentration: 1.977 ug/mL

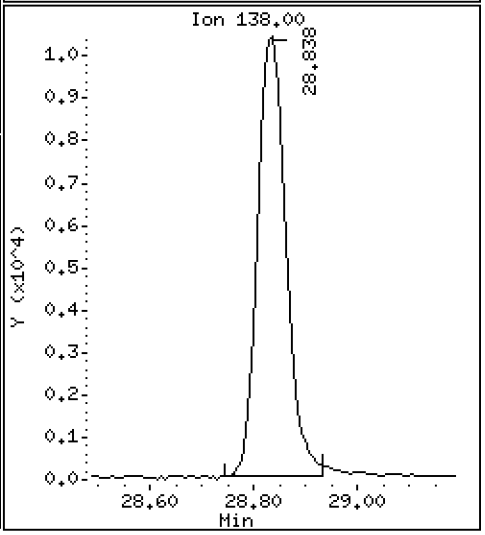


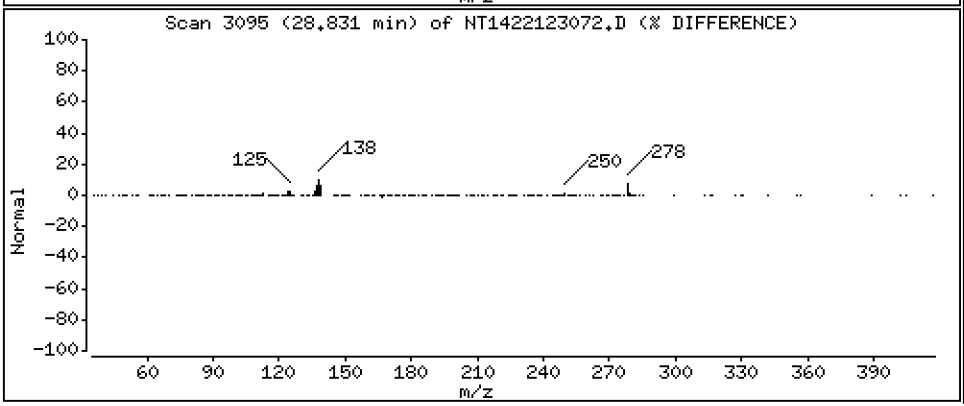












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

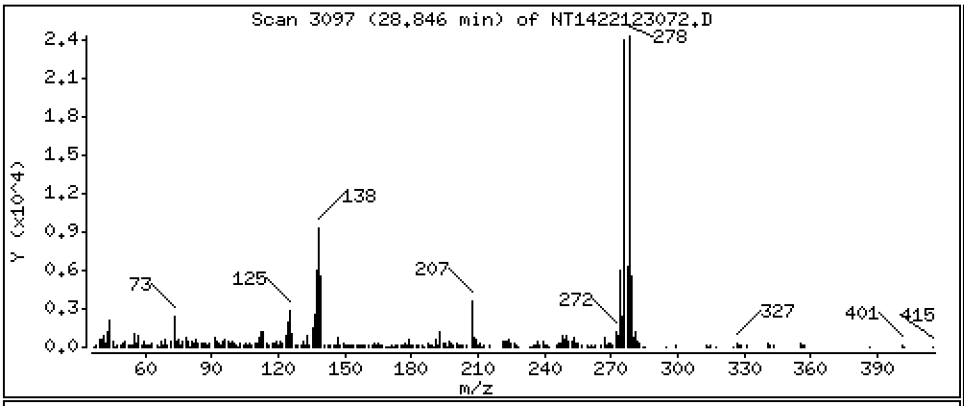
Operator: VTS

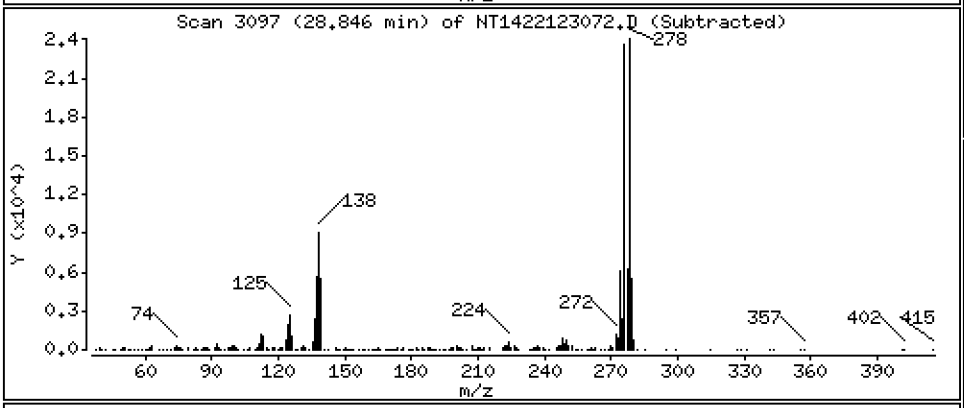
Column phase: ZB-5msi

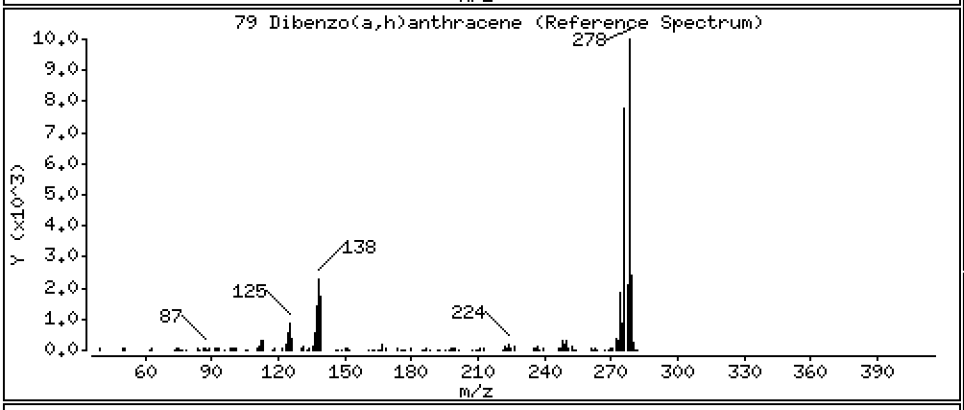
Column diameter: 0.25

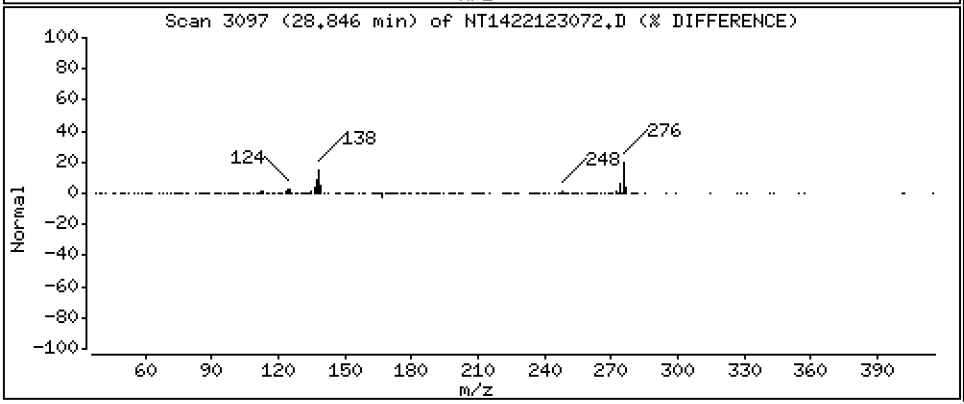
79 Dibenzo(a,h)anthracene

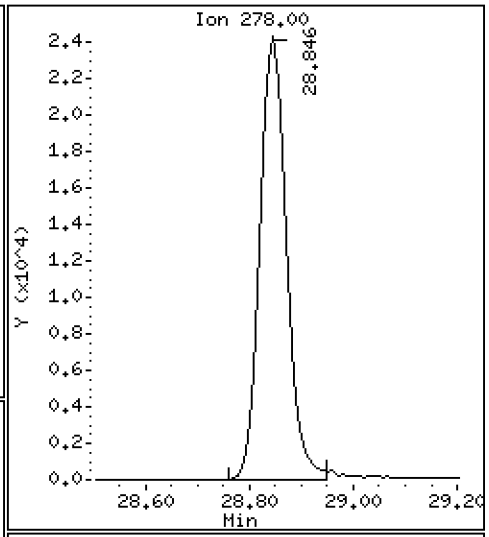
Concentration: 1.899 ug/mL

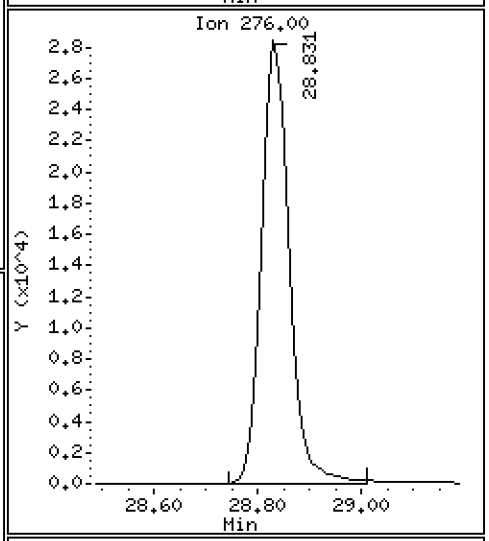


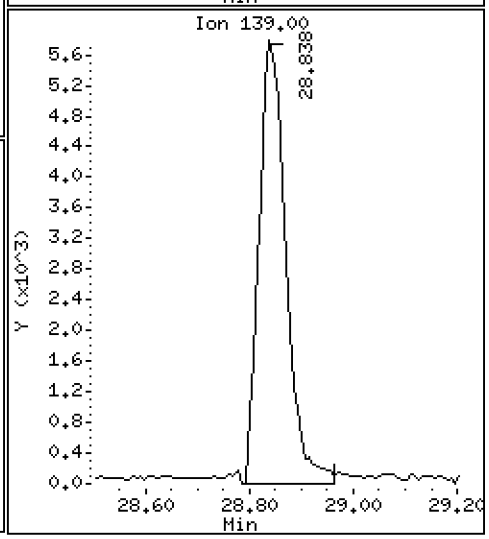












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

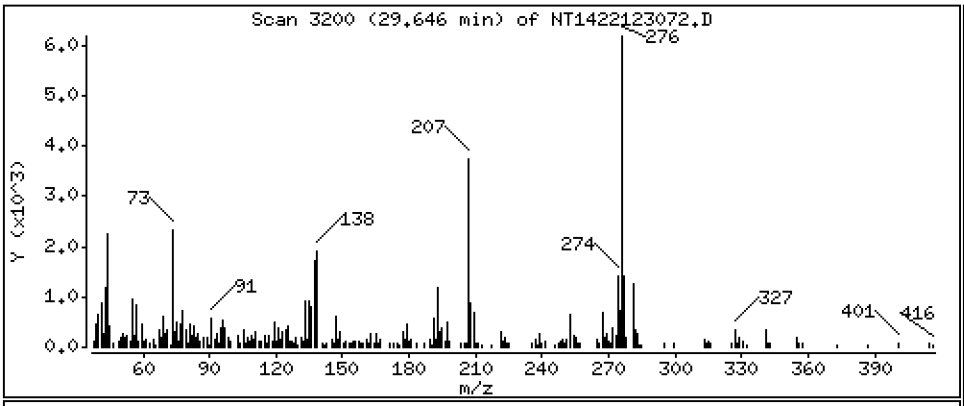
Operator: VTS

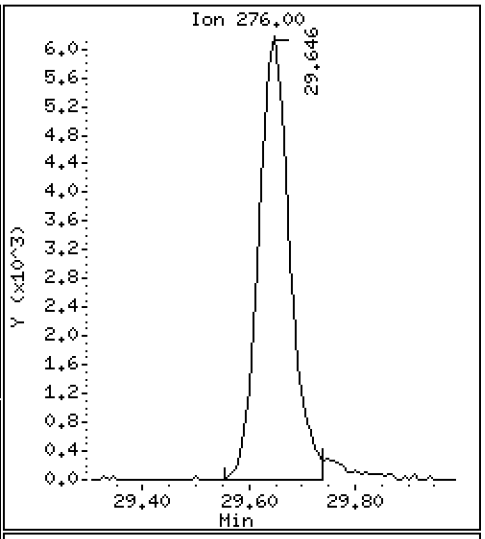
Column phase: ZB-5msi

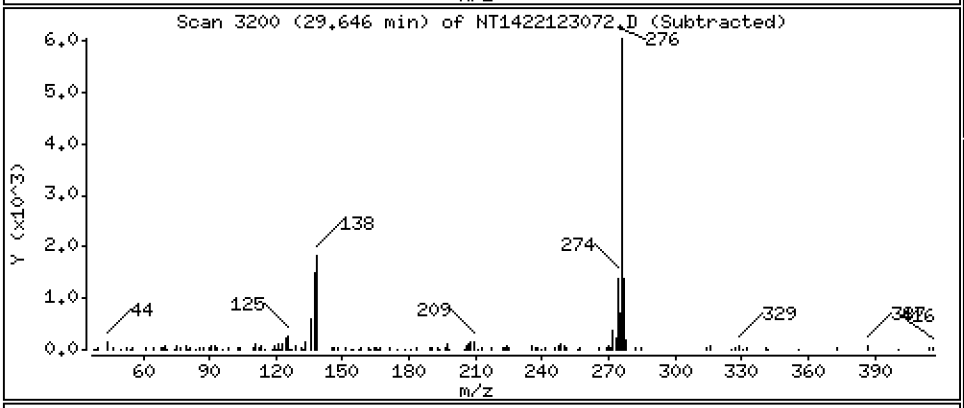
Column diameter: 0.25

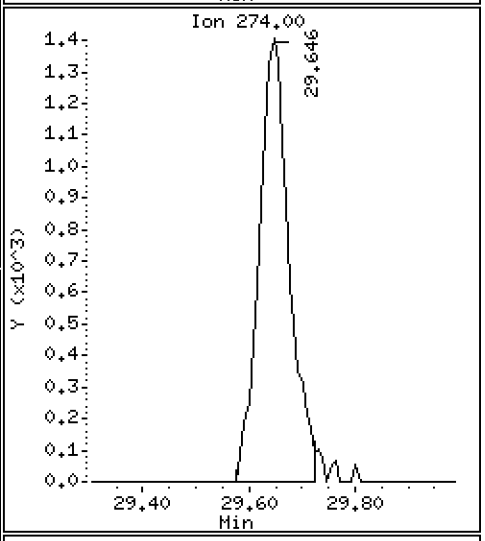
80 Benzo(g,h,i)perylene

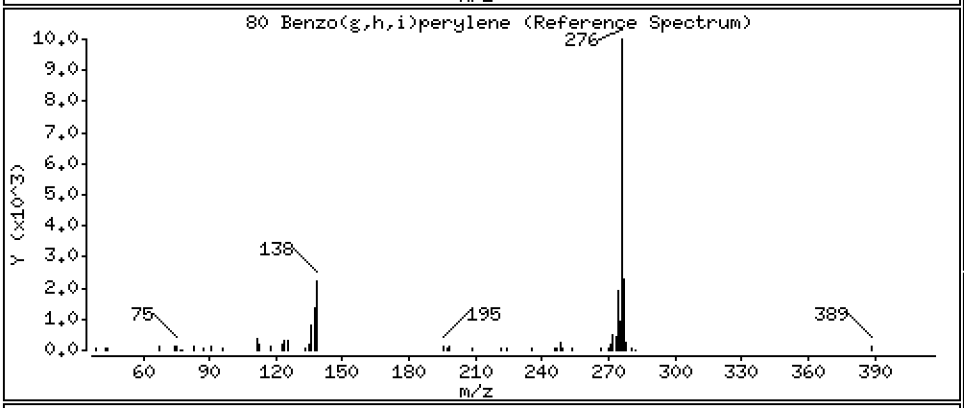
Concentration: 0.5702 ug/mL

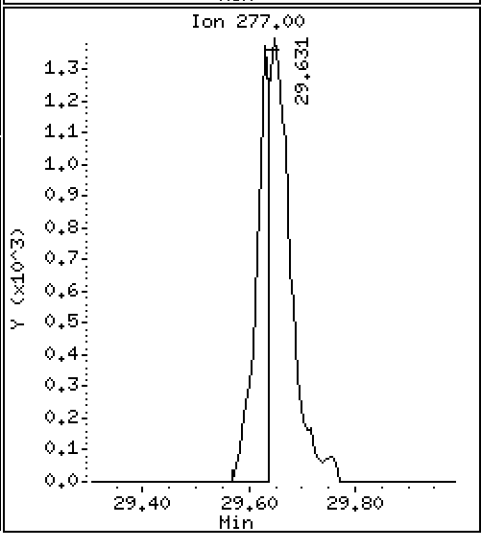


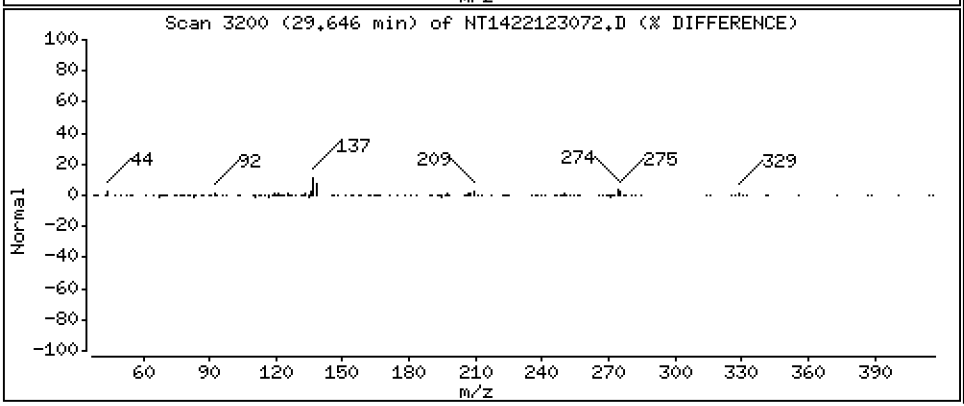












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

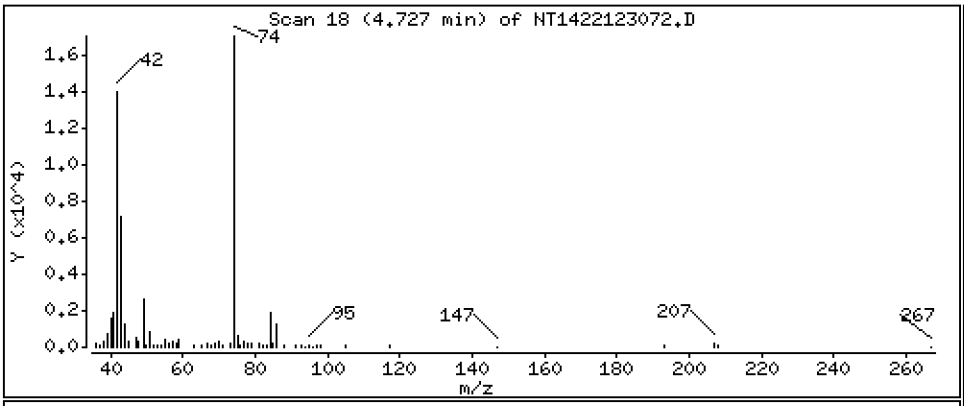
Operator: VTS

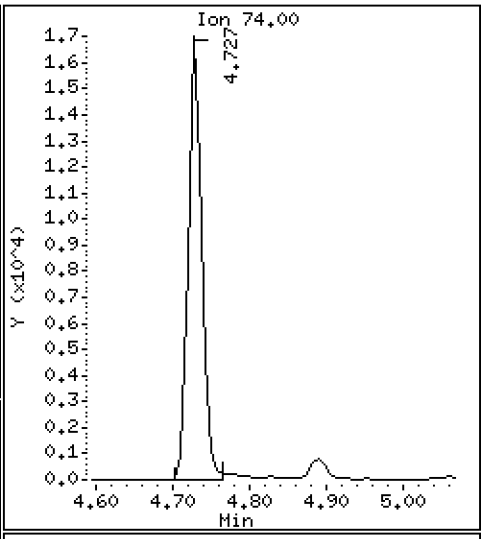
Column phase: ZB-5msi

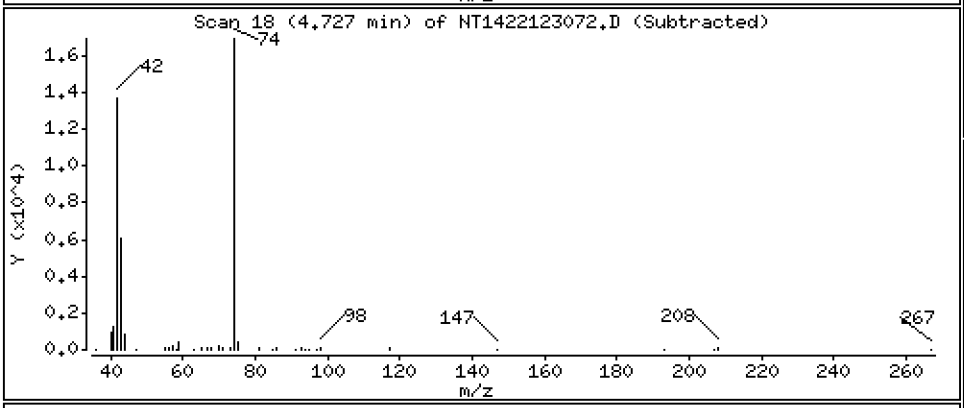
Column diameter: 0.25

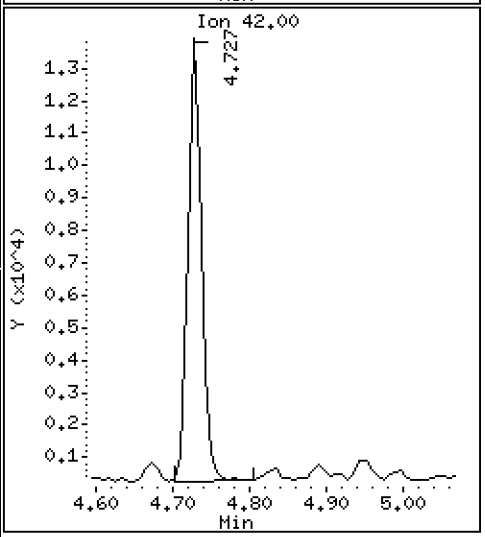
90 N-Nitrosodimethylamine

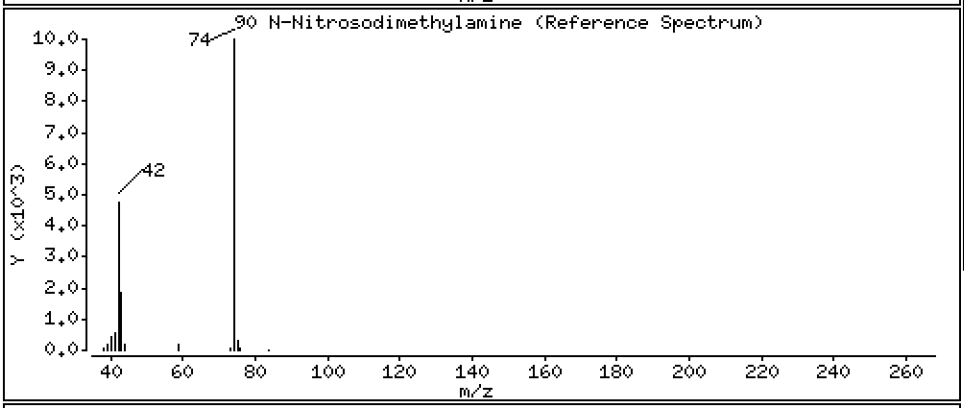
Concentration: 1.086 ug/mL

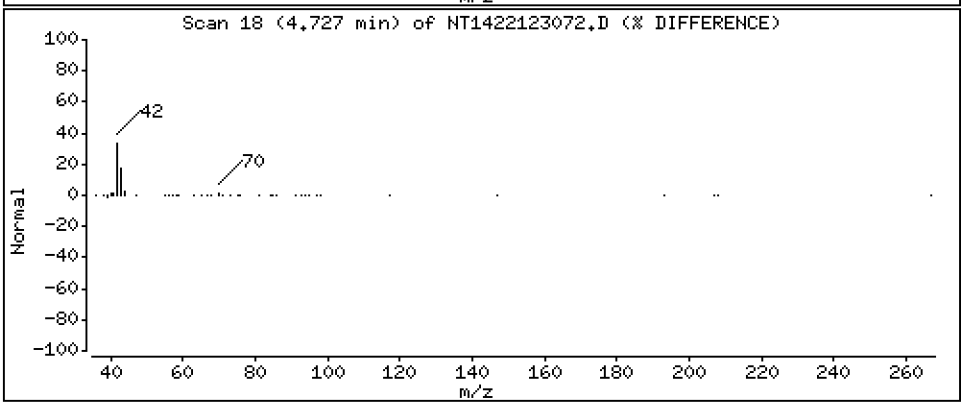












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

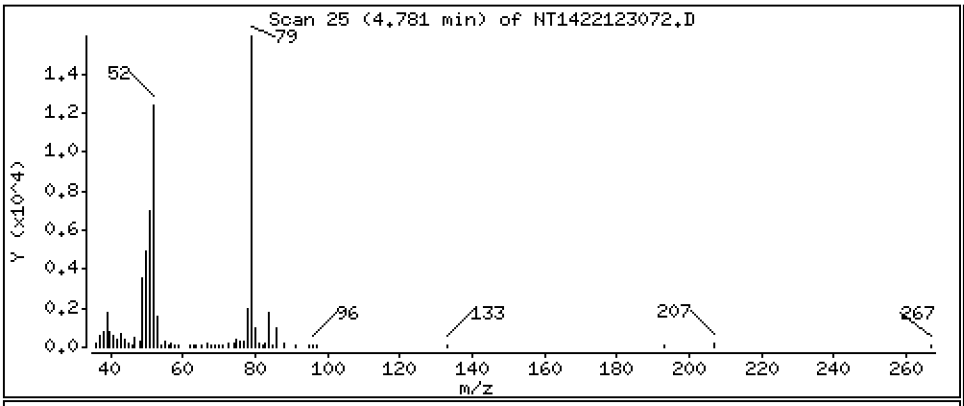
Operator: VTS

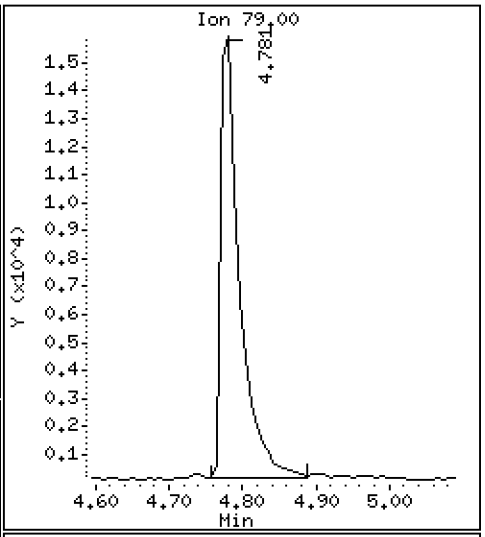
Column phase: ZB-5msi

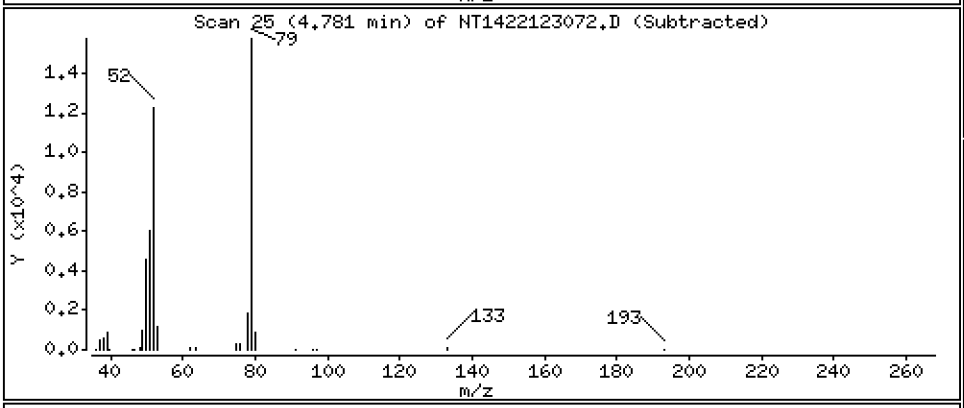
Column diameter: 0.25

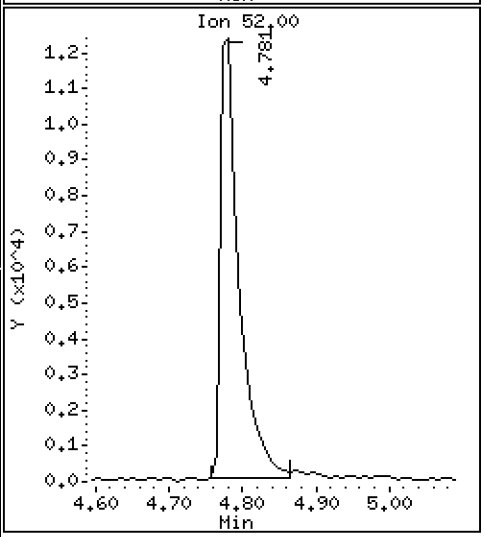
103 Pyridine

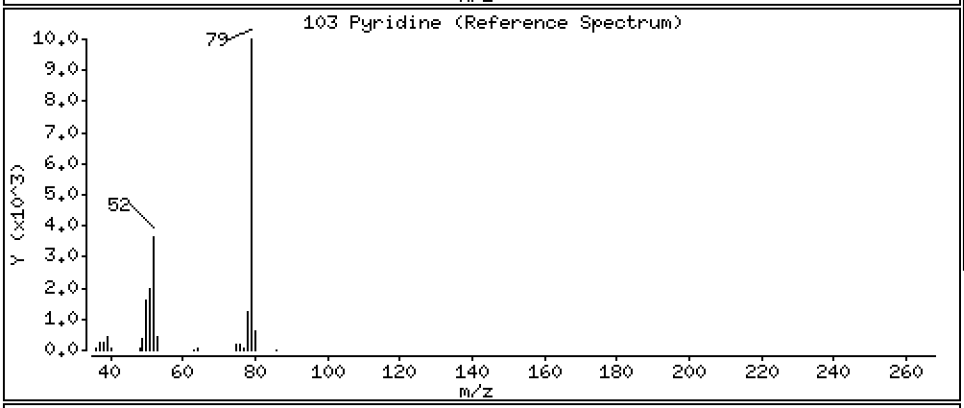
Concentration: 0.4678 ug/mL

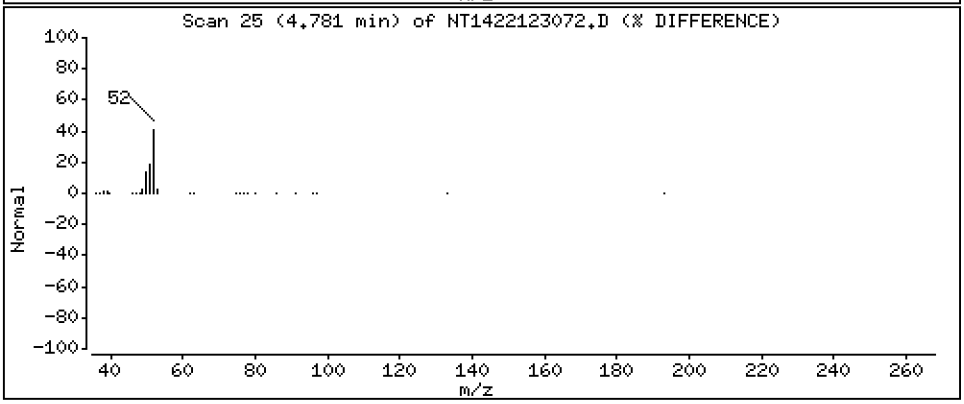












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

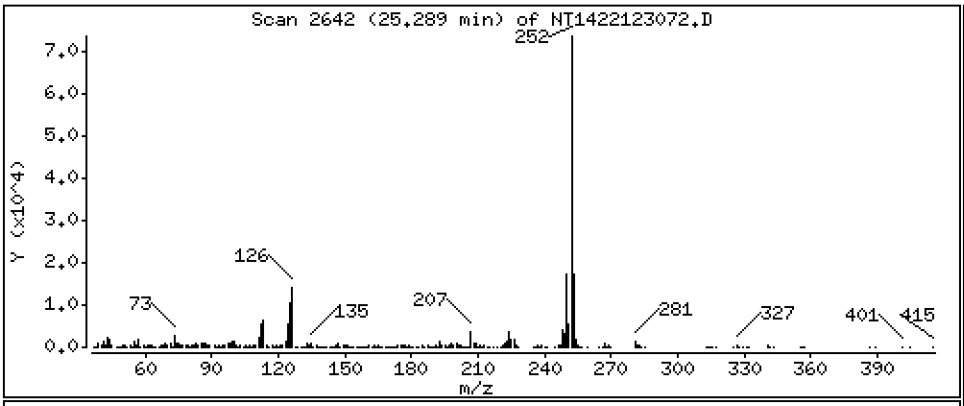
Operator: VTS

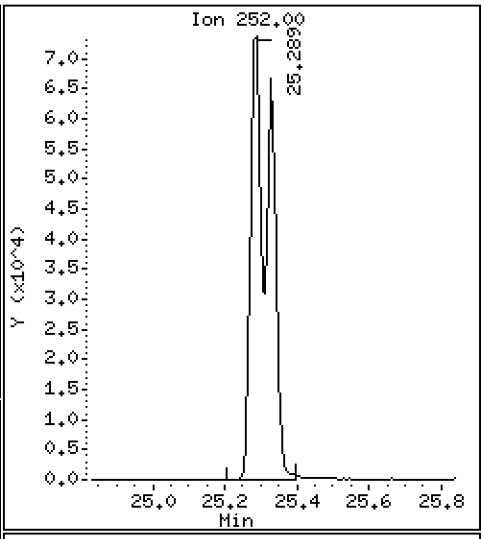
Column phase: ZB-5msi

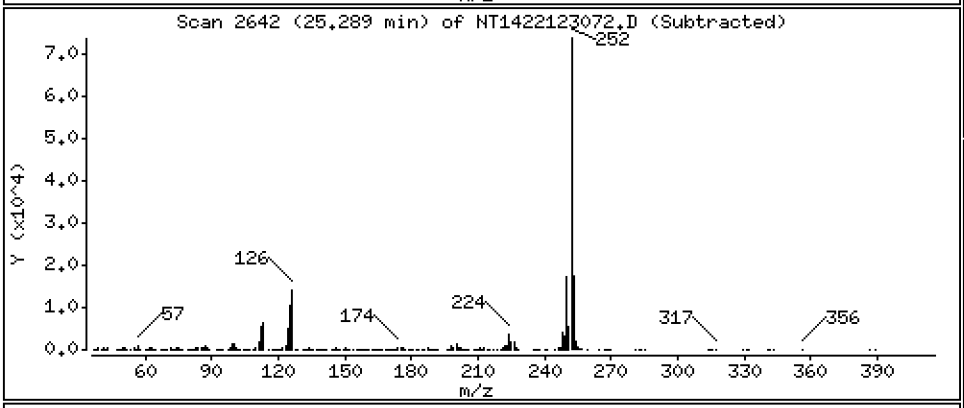
Column diameter: 0.25

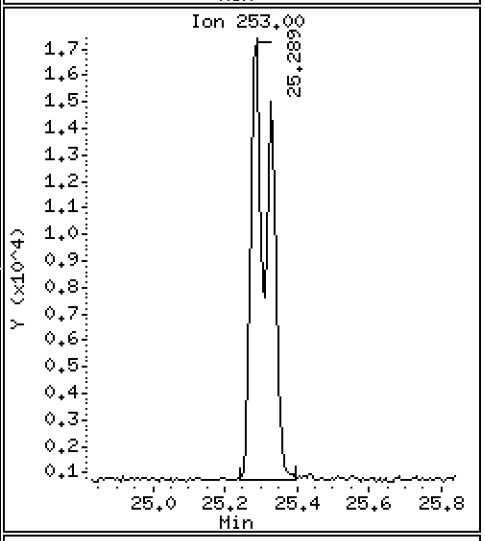
187 Total Benzofluoranthenes

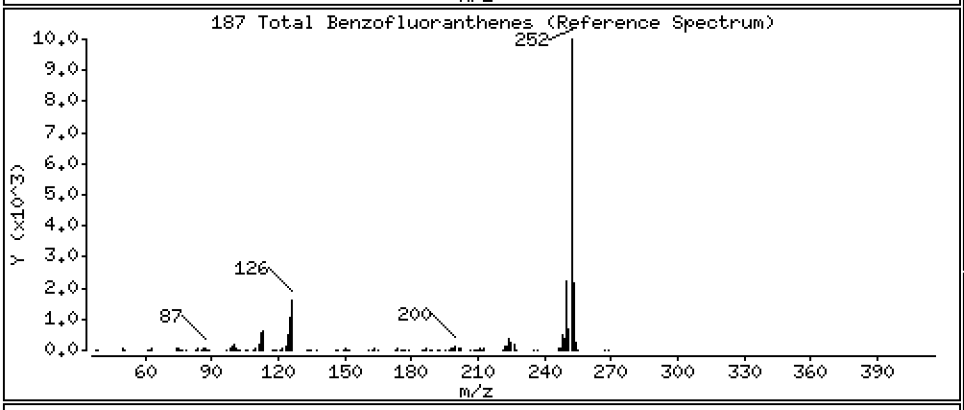
Concentration: 4.981 ug/mL

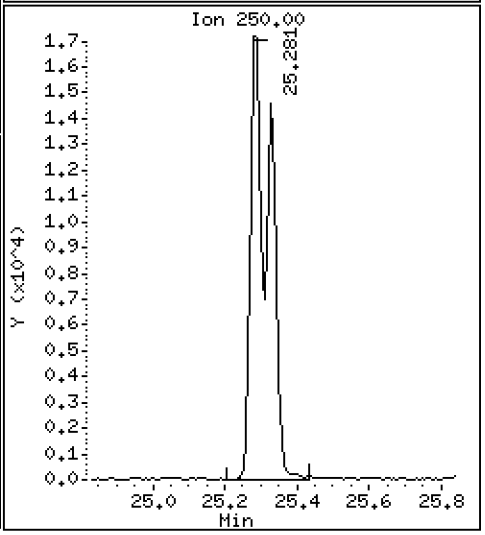


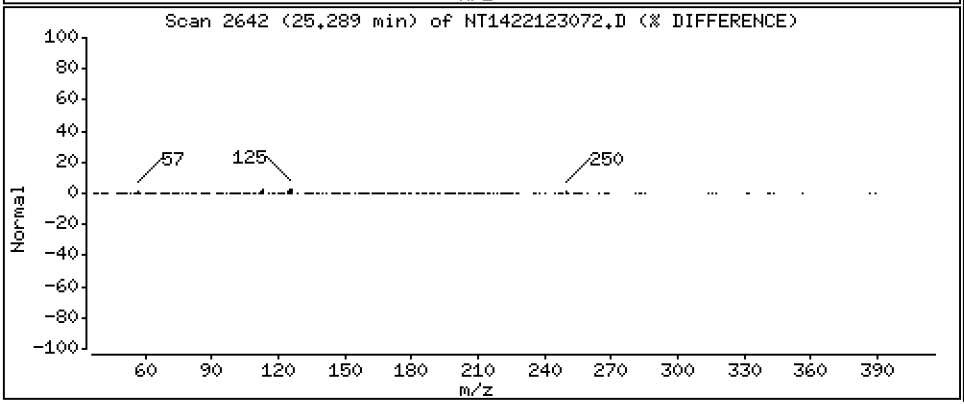












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Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

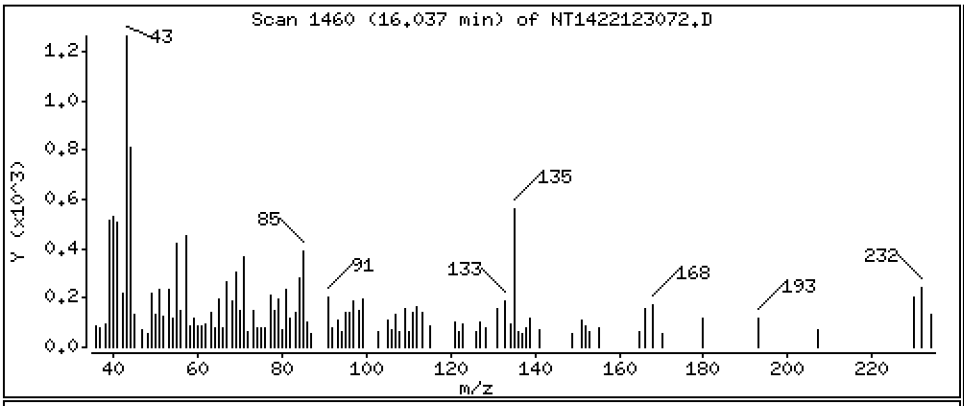
Operator: VTS

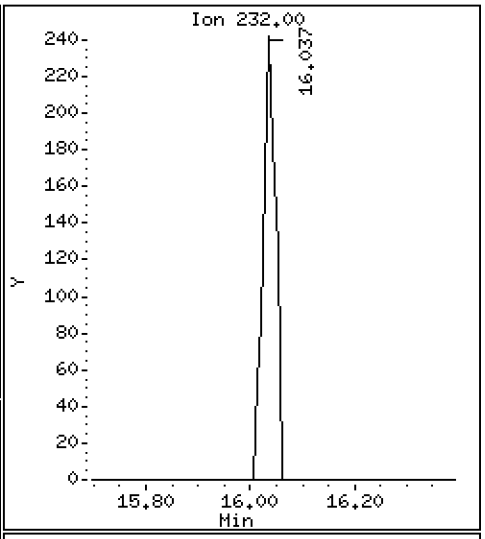
Column phase: ZB-5msi

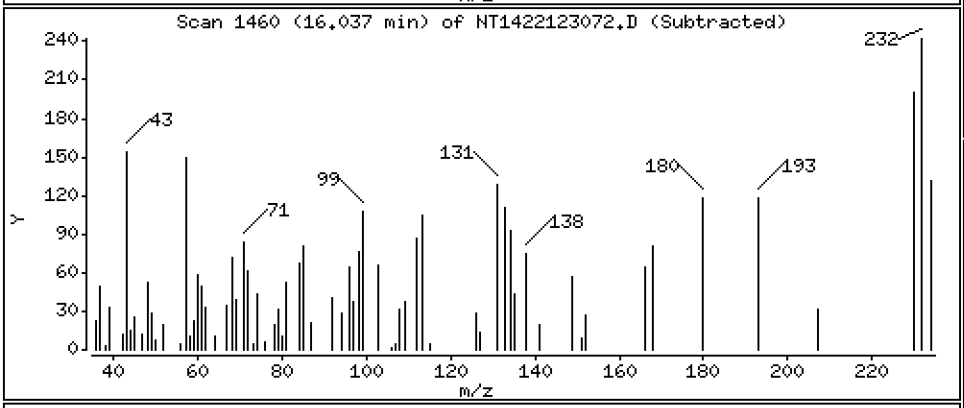
Column diameter: 0.25

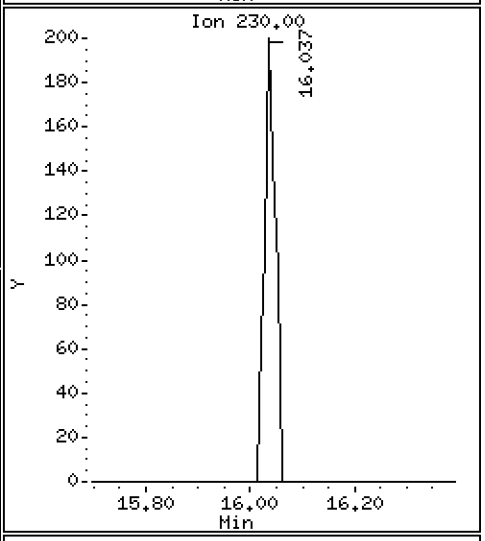
120 2,3,4,6-Tetrachlorophenol

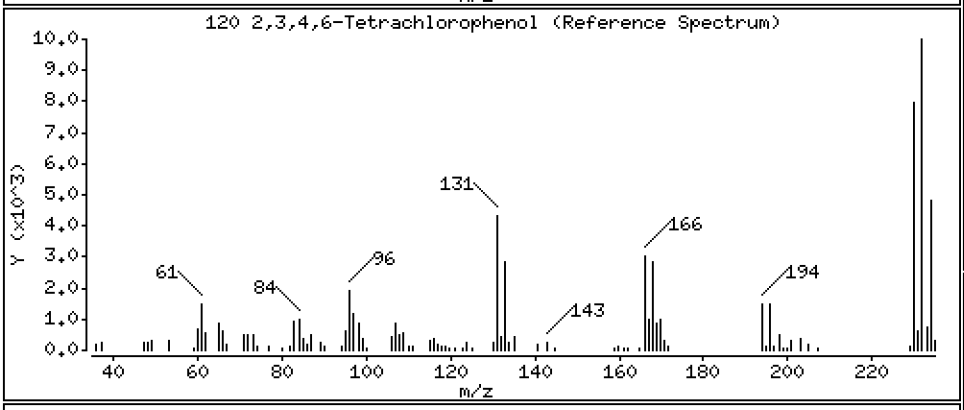
Concentration: 0.03520 ug/mL

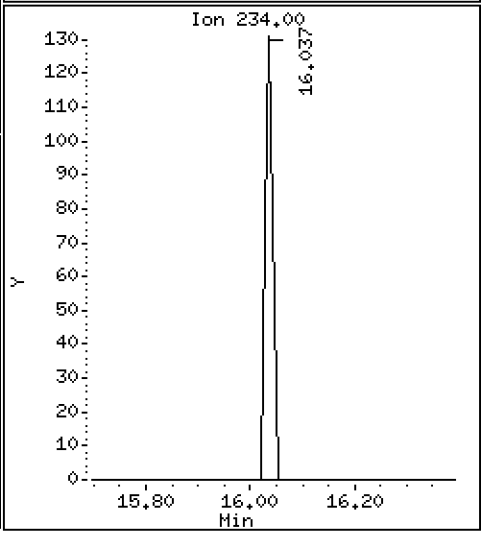


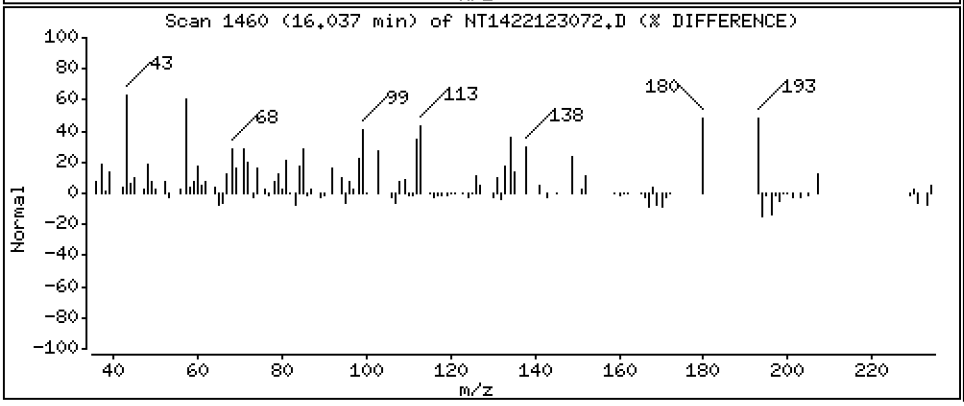












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230C.b\NT1422123072.D
Lab Smp Id: BKL0193-SRM1
Inj Date : 01-JAN-2023 03:05 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : BKL0193-SRM1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 43
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.927	6.919	(0.756)	146252	5.29221	5.292
$	2 Phenol-d5	99	8.511	8.519	(0.929)	191239	5.59960	5.600
	3 Phenol	94	8.534	8.542	(0.932)	77911	2.00767	2.008
$	5 2-Chlorophenol-d4	132	8.797	8.797	(0.960)	164649	5.74039	5.740
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	8.820	8.827	(0.963)	33897	1.07608	1.076
	7 1,3-Dichlorobenzene	146	9.098	9.098	(0.993)	24573	0.73566	0.7357
*	8 1,4-Dichlorobenzene-d4	152	9.160	9.160	(1.000)	86260	4.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	9.525	9.525	(1.040)	68106	3.47411	3.474
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	Compound Not Detected.					
	14 2,2'-oxybis(1-Chloropropane)	121	9.735	9.735	(1.063)	18528	2.05921	2.059
	13 2-Methylphenol	108	9.657	9.665	(1.054)	120502	4.27332	4.273
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	9.929	9.936	(1.084)	154510	5.19409	5.194
$	18 Nitrobenzene-d5	82	10.255	10.262	(0.879)	106881	4.01705	4.017
	19 Nitrobenzene	77	10.294	10.301	(0.882)	63588	2.40643	2.406
	20 Isophorone	82	10.744	10.751	(0.921)	59812	1.77601	1.776
	21 2-Nitrophenol	139	10.930	10.937	(0.937)	74901	4.46451	4.465
	22 2,4-Dimethylphenol	107	10.984	10.992	(0.942)	119548	4.33480	4.335
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	11.085	11.209	(0.950)	5051	0.30080	0.3008(M)
	25 2,4-Dichlorophenol	162	11.395	11.395	(0.977)	137030	5.89450	5.894
	26 1,2,4-Trichlorobenzene	180	11.581	11.581	(0.993)	23292	0.92662	0.9266
*	27 Naphthalene-d8	136	11.666	11.673	(1.000)	315083	4.00000	
	28 Naphthalene	128	11.704	11.712	(1.003)	245216	3.16242	3.162
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	12.075	12.075	(1.035)	16920	1.35668	1.357
	31 4-Chloro-3-methylphenol	107	12.810	12.810	(1.098)	34497	1.57249	1.572
	32 2-Methylnaphthalene	142	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.739	13.739	(0.898)	21309	1.59628	1.596
	35	2,4,5-Trichlorophenol	196	13.816	13.816	(0.903)	37742	2.44972	2.450
$	36	2-Fluorobiphenyl	172	13.894	13.901	(0.908)	217529	4.04528	4.045
	37	2-Chloronaphthalene	162	14.110	14.118	(0.922)	75909	1.65936	1.659
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	14.791	14.799	(0.967)	182803	4.05294	4.053
	40	Acenaphthylene	152	14.985	14.993	(0.979)	109894	1.57548	1.575
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	15.302	15.310	(1.000)	159935	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	15.372	15.371	(1.005)	201221	4.65110	4.651
	45	2,4-Dinitrophenol	184	15.434	15.441	(1.009)	5693	0.65766	0.6577
	46	Dibenzofuran	168	15.696	15.704	(1.026)	324597	5.00323	5.003
	47	4-Nitrophenol	109	15.557	15.557	(1.017)	31925	5.32951	5.330
	48	2,4-Dinitrotoluene	165	15.743	15.750	(1.029)	39823	2.85147	2.851
	50	Diethylphthalate	149	16.253	16.268	(1.062)	16179	0.26391	0.2639
	49	Fluorene	166	16.415	16.423	(1.073)	230578	3.34087	3.341
	51	4-Chlorophenyl-phenylether	204	16.400	16.407	(1.072)	63060	1.86626	1.866
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	16.585	16.600	(0.904)	36335	3.18829	3.188
	54	N-Nitrosodiphenylamine	169	16.647	16.654	(0.907)	153788	3.32165	3.322
$	55	2,4,6-Tribromophenol	330	16.947	16.955	(1.108)	46238	5.97889	5.979
	56	4-Bromophenyl-phenylether	248	17.410	17.410	(0.949)	96413	5.49940	5.499
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	18.091	18.090	(0.986)	8381	1.00152	1.002
*	59	Phenanthrene-d10	188	18.354	18.361	(1.000)	269812	4.00000	
	60	Phenanthrene	178	18.400	18.408	(1.003)	279717	3.97619	3.976
	61	Anthracene	178	18.493	18.500	(1.008)	132709	1.97608	1.976
	62	Carbazole	167	18.818	18.825	(1.025)	305658	4.70800	4.708
	63	Di-n-butylphthalate	149	19.607	19.614	(1.068)	106578	1.43956	1.440
	64	Fluoranthene	202	20.783	20.791	(0.888)	144637	2.13130	2.131
	65	Pyrene	202	21.209	21.216	(0.906)	189757	2.65943	2.659
$	66	Terphenyl-d14	244	21.487	21.495	(0.918)	224011	4.42768	4.428
	67	Butylbenzylphthalate	149	22.401	22.408	(0.957)	94908	3.48450	3.484
	68	Benzo(a)anthracene	228	23.369	23.376	(0.999)	329055	5.15380	5.154
*	69	Chrysene-d12	240	23.400	23.399	(1.000)	210765	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	23.438	23.446	(1.002)	74616	1.23723	1.237
	72	bis(2-Ethylhexyl)phthalate	149	23.423	23.430	(0.959)	105359	2.67143	2.671
*	134	Di-n-octylphthalate-d4	153	24.414	24.421	(1.000)	355122	4.00000	
	73	Di-n-octylphthalate	149	24.429	24.429	(1.001)	171475	2.01157	2.012
	74	Benzo(b)fluoranthene	252	25.288	25.296	(0.970)	157504	2.79804	2.798
	75	Benzo(k)fluoranthene	252	25.327	25.335	(0.971)	126887	2.21472	2.215
	76	Benzo(a)pyrene	252	25.962	25.970	(0.996)	208090	4.44689	4.447
*	77	Perylene-d12	264	26.078	26.086	(1.000)	179115	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.830	28.838	(1.106)	105160	1.97688	1.977
	79	Dibenzo(a,h)anthracene	278	28.846	28.853	(1.106)	85855	1.89929	1.899
	80	Benzo(g,h,i)perylene	276	29.646	29.653	(1.137)	25411	0.57023	0.5702
	90	N-Nitrosodimethylamine	74	4.726	4.718	(0.516)	20666	1.08582	1.086
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	4.780	4.741	(0.522)	28292	0.46781	0.4678
	105	1-methylnaphthalene	142	Compound Not Detected.					
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.288	25.335	(0.970)	271096	4.98145	4.981
120 2,3,4,6-Tetrachlorophenol	232	16.036	16.044	(1.048)	396	0.03520	0.03520

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123072.D
Lab Smp Id: BKL0193-SRM1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Misc Info:

Calibration Date: 31-DEC-2022
Calibration Time: 23:30
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138755	69378	277510	86260	-37.83
27 Naphthalene-d8	501723	250862	1003446	315083	-37.20
42 Acenaphthene-d10	275234	137617	550468	159935	-41.89
59 Phenanthrene-d10	440085	220043	880170	269812	-38.69
69 Chrysene-d12	384795	192398	769590	210765	-45.23
134 Di-n-octylphthala	674530	337265	1349060	355122	-47.35
77 Perylene-d12	336665	168333	673330	179115	-46.80

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	-0.06
42 Acenaphthene-d10	15.31	14.81	15.81	15.30	-0.05
59 Phenanthrene-d10	18.36	17.86	18.86	18.35	-0.04
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.41	-0.03
77 Perylene-d12	26.09	25.59	26.59	26.08	-0.03

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

REVIEW SUMMARY FOR FILE - NT1422123072.D

Lab ID: BKL0193-SRM1
nt14.i, 20221230C.b\ABN.m,   01-JAN-2023 03:05

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.950	0.960	-0.0100	Benzoic acid

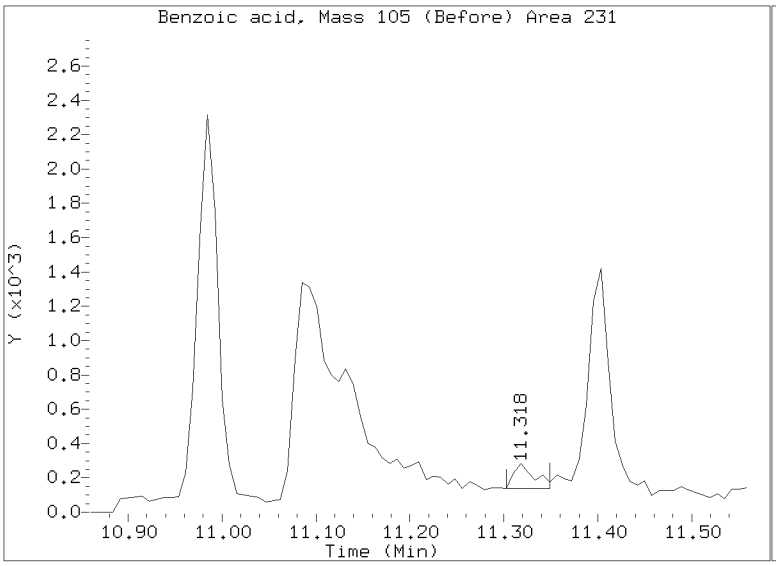
RRT check based on Ccal File: NT1422123066.D

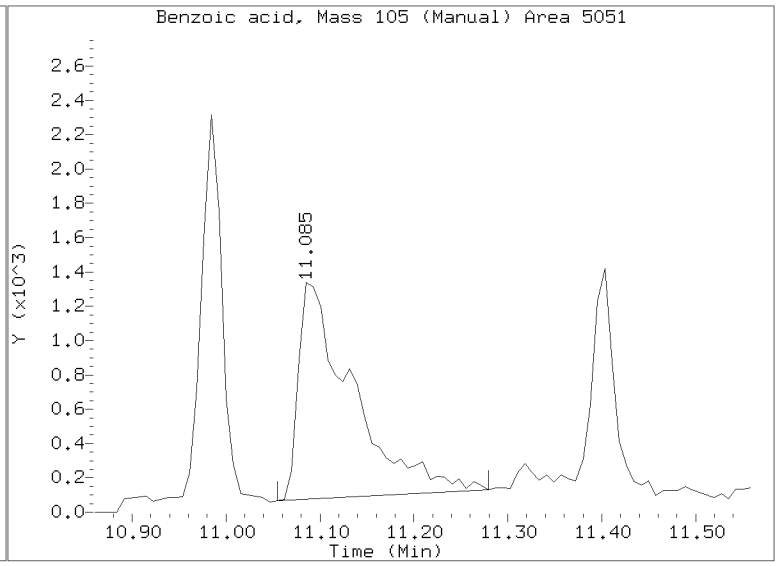
On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230C.b/NT1422123072.D
Injection Date: 01-JAN-2023 03:05
Lab ID:BKL0193-SRM1 Client ID:
Report Date: 01/04/2023 14:24





Analytical Resources, LLC
Analytical Chemists and Consultants

MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Lab File ID:	NT1422123001.D	Injection Date:	12/30/22
Instrument ID:	NT14	Injection Time:	07:53
Sequence:	SKL0355	Lab Sample ID:	SKL0355-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of 69	1.54	PASS
69	Less than 100% of 198	27.3	PASS
70	Less than 2% of 69	0	PASS
197	Less than 2% of 198	0.704	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.88	PASS
365	1 - 100% of 198	3.3	PASS
441	Less than 150% of 443	72.3	PASS
442	1 - 200% of 198	103	PASS
443	15 - 24% of 442	19.8	PASS
4,4'-DDD	Less than 20% of 4,4'-DDT		
4,4'-DDE	Less than 20% of		
4,4'-DDT	Less than 200% of		

Analytical Resources, LLC
Analytical Chemists and Consultants

MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Lab File ID:	NT1422123001.D	Injection Date:	12/30/22
Instrument ID:	NT14	Injection Time:	07:53
Sequence:	SKL0355	Lab Sample ID:	SKL0355-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of 69	1.54	PASS
69	Less than 100% of 198	27.3	PASS
70	Less than 2% of 69	0	PASS
197	Less than 2% of 198	0.704	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.88	PASS
365	1 - 100% of 198	3.3	PASS
441	Less than 150% of 443	72.3	PASS
442	1 - 200% of 198	103	PASS
443	15 - 24% of 442	19.8	PASS
4,4'-DDD	Less than 20% of 4,4'-DDT		
4,4'-DDE	Less than 20% of		
4,4'-DDT	Less than 200% of		

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
MS Tune	SKL0355-TUN1	NT1422123001.D	12/30/2022	7:53
Cal Standard	SKL0355-CAL5	NT1422123002.D	12/30/2022	8:06
Cal Standard	SKL0355-CAL7	NT1422123003.D	12/30/2022	8:42
Cal Standard	SKL0355-CAL1	NT1422123004.D	12/30/2022	9:18
Cal Standard	SKL0355-CAL6	NT1422123005.D	12/30/2022	9:54
Cal Standard	SKL0355-CAL2	NT1422123006.D	12/30/2022	10:30
Cal Standard	SKL0355-CAL4	NT1422123007.D	12/30/2022	11:07
Cal Standard	SKL0355-CAL3	NT1422123008.D	12/30/2022	11:43
Initial Cal Check	SKL0355-ICV1	NT1422123011.D	12/30/2022	13:31
Initial Cal Blank	SKL0355-ICB1	NT1422123012.D	12/30/2022	14:08
Initial Cal Check	SKL0355-ICV2	NT1422123014.D	12/30/2022	15:53
ZZZZZ	22K0241-02RE1	NT1422123038.D	12/31/2022	6:20
ZZZZZ	22K0399-08RE1	NT1422123039.D	12/31/2022	6:56
ZZZZZ	22K0399-19RE1	NT1422123040.D	12/31/2022	7:32
ZZZZZ	22K0399-22RE1	NT1422123041.D	12/31/2022	8:08
ZZZZZ	22K0399-29RE1	NT1422123042.D	12/31/2022	8:44
Initial Cal Check	SKL0355-ICV4	NT1422123049.D	12/31/2022	13:17
Low Cal Check	SKL0355-LCV1	NT1422123051.D	12/31/2022	14:29
Low Cal Check	SKL0355-LCV2	NT1422123052.D	12/31/2022	15:05
ZZZZZ	22K0021-01RE1	NT1422123060.D	12/31/2022	19:54
ZZZZZ	22K0045-01RE1	NT1422123061.D	12/31/2022	20:30
ZZZZZ	22K0045-02RE1	NT1422123062.D	12/31/2022	21:06
ZZZZZ	22K0045-03RE1	NT1422123063.D	12/31/2022	21:42
ZZZZZ	22K0045-04RE1	NT1422123064.D	12/31/2022	22:18
ZZZZZ	22K0045-05RE1	NT1422123065.D	12/31/2022	22:54
Initial Cal Check	SKL0355-ICV5	NT1422123066.D	12/31/2022	23:30

Analytical Resources, LLC
Analytical Chemists and Consultants

MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270E

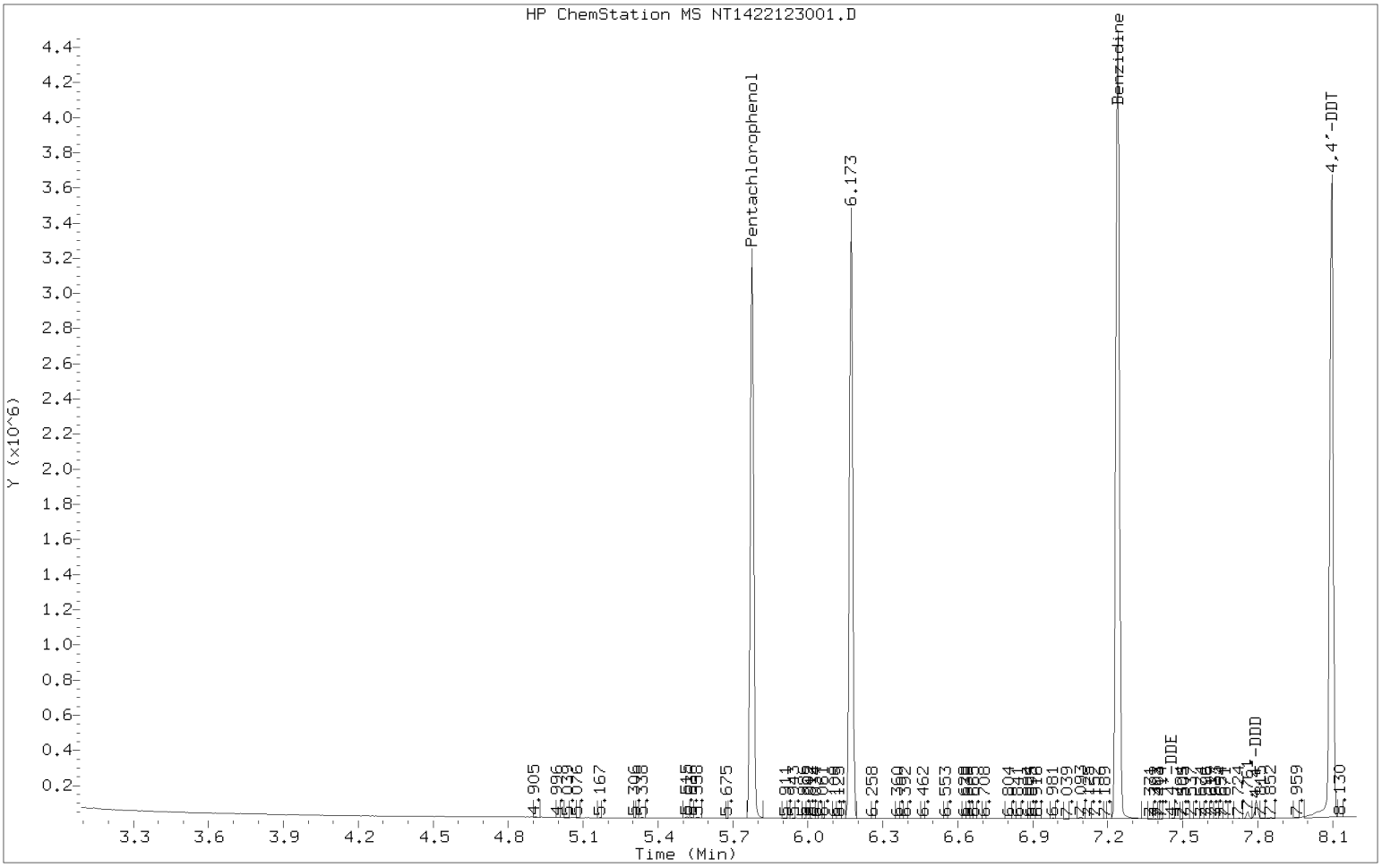
Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Lab File ID:	NT1422123001.D	Injection Date:	12/30/22
Instrument ID:	NT14	Injection Time:	07:53
Sequence:	SKL0355	Lab Sample ID:	SKL0355-TUN1

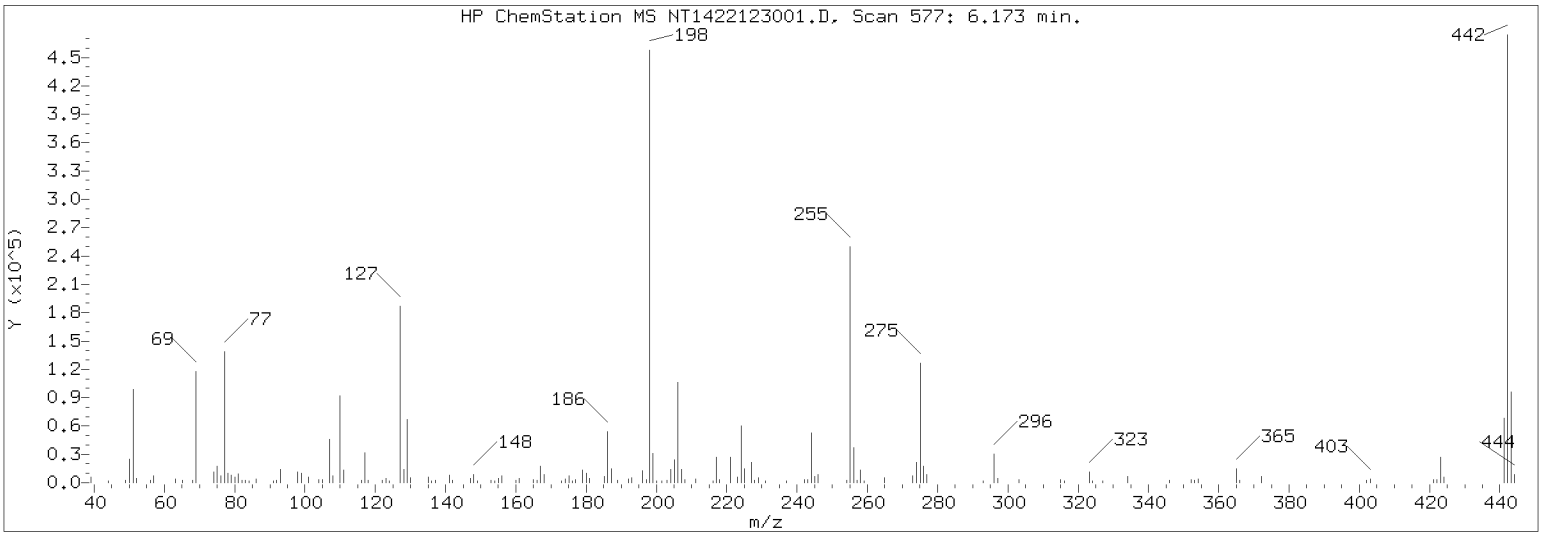
m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of 69	1.54	PASS
69	Less than 100% of 198	27.3	PASS
70	Less than 2% of 69	0	PASS
197	Less than 2% of 198	0.704	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.88	PASS
365	1 - 100% of 198	3.3	PASS
441	Less than 150% of 443	72.3	PASS
442	1 - 200% of 198	103	PASS
443	15 - 24% of 442	19.8	PASS
4,4'-DDD	Less than 20% of 4,4'-DDT		
4,4'-DDE	Less than 20% of		
4,4'-DDT	Less than 200% of		

Low Cal Check	SKL0355-LCV3	NT1422123067.D	01/01/2023	0:06
Low Cal Check	SKL0355-LCV4	NT1422123068.D	01/01/2023	0:42
Blank	BKL0193-BLK1	NT1422123069.D	01/01/2023	1:18
LCS	BKL0193-BS1	NT1422123070.D	01/01/2023	1:53
LCS Dup	BKL0193-BSD1	NT1422123071.D	01/01/2023	2:29
Reference	BKL0193-SRM1	NT1422123072.D	01/01/2023	3:05
ZZZZZ	22L0104-01	NT1422123073.D	01/01/2023	3:41
ZZZZZ	22L0104-02	NT1422123074.D	01/01/2023	4:17
LDW22-SS823	22L0136-01	NT1422123075.D	01/01/2023	4:53
LDW22-SS786	22L0136-08	NT1422123076.D	01/01/2023	5:29
LDW22-SS766	22L0136-09	NT1422123077.D	01/01/2023	6:05
Matrix Spike	BKL0193-MS1	NT1422123078.D	01/01/2023	6:41
Matrix Spike Dup	BKL0193-MSD1	NT1422123079.D	01/01/2023	7:17
LDW22-SS771	22L0136-10	NT1422123080.D	01/01/2023	7:53
LDW22-SS771-FD	22L0136-11	NT1422123081.D	01/01/2023	8:29
LDW22-SS772	22L0136-12	NT1422123082.D	01/01/2023	9:05
Calibration Check	SKL0355-CCV1	NT1422123083.D	01/01/2023	9:41

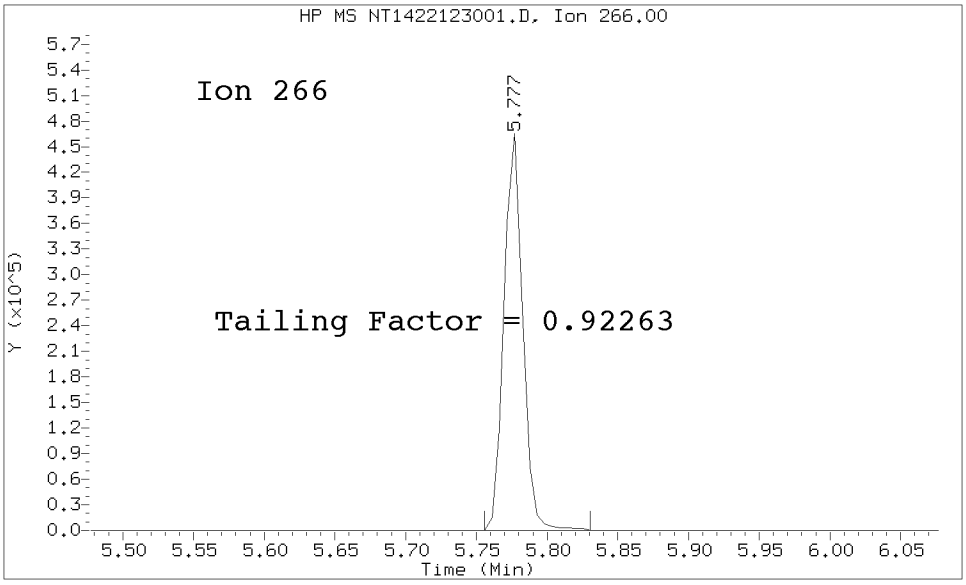
DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20221230.b/NT1422123001.D/NT1422123001.D
Method Used: \20221230.b\DFTPP8270E.m Inst: nt14
Injection Date: 30-DEC-2022 07:53 Operator: VTS
Sample Info: SKL0355-TUN1 SKL0355-TUN1
Report Date: 12/31/2022 15:11



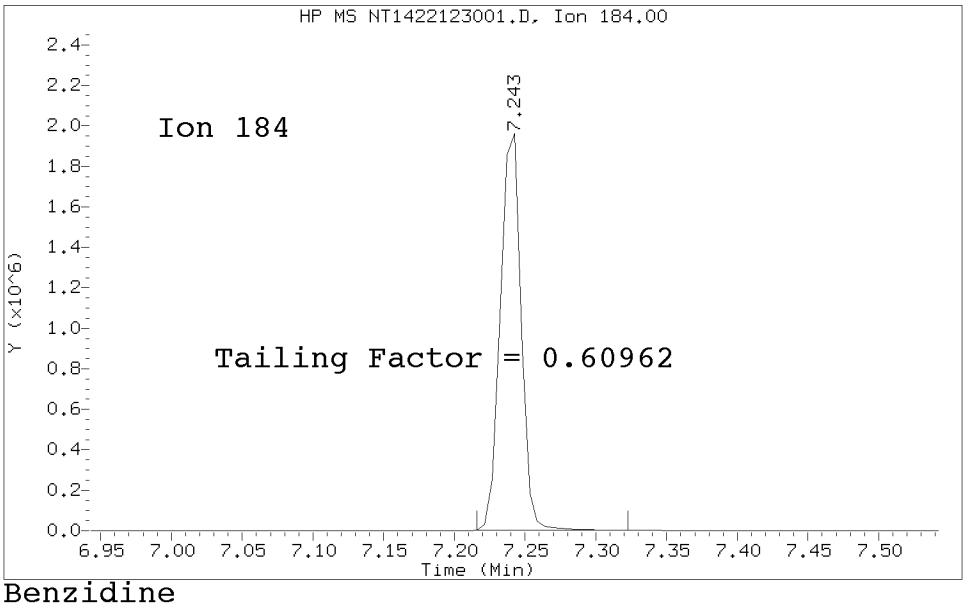


Datafile Analyzed: /20221230.b/NT1422123001.D/NT1422123001.D
Method Used: \20221230.b\DFTPP8270E.m\sw846ddt.m Inst: nt14
Injection Date: 30-DEC-2022 07:53 Operator: JZ
Sample Info: SKL0355-TUN1
Report Date: 12/31/2022 15:11



Pentachlorophenol
==========
 Exp. RT = 5.777
Found RT = 5.777

Tail Factor = 0.923 Maximum Allowed = 2.0



Benzidine
=========
 Exp. RT = 7.243
Found RT = 7.243

Tail Factor = 0.610 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.9226328	2.000	PASS
Benzidine	0.6096154	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	728571			N/A
4,4-DDE	1748	0.2	20.0	PASS
4,4-DDD	25116	3.3	20.0	PASS
4,4-DDD + DDE	26864	3.6	20.0	PASS

Tuning Sample, nt14.i/20221230.b/NT1422123001.D, *** PASSED ***

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
68	Less than 2.00% of mass 69	0.42 (1.54)
69	Mass 69 relative abundance	27.33
70	Less than 2.00% of mass 69	0.00 (0.00)
197	Less than 2.00% of mass 198	0.70
199	5.00 - 9.00% of mass 198	6.88
365	1.00 - 100.00% of mass 198	3.30
441	Less than 150.00% of mass 443	14.74 (72.29)
442	Less than 200.00% of mass 198	103.05
443	15.00 - 24.00% of mass 442	20.40 (19.79)

Data File: NT1422123001.D
Spectrum: Avg. Scans 576-578 (6.17), Background Scan 570
Location of Maximum: 442.00
Number of points: 144

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	5632	123.00	3801	193.00	4295	265.00	4182
50.00	21040	124.00	718	196.00	10174	273.00	6187
51.00	85256	127.00	152832	197.00	2556	274.00	16840
52.00	4405	128.00	11309	198.00	363008	275.00	97584
56.00	1965	129.00	55704	199.00	24968	276.00	13253
57.00	6391	130.00	4710	200.00	757	277.00	7167
63.00	3577	135.00	4859	201.00	781	293.00	783
65.00	1506	136.00	670	203.00	839	296.00	24208
68.00	1530	137.00	2423	204.00	11125	297.00	3535
69.00	99200	141.00	6775	205.00	19328	303.00	2963
74.00	9619	142.00	1723	206.00	83840	315.00	2888
75.00	15248	147.00	3621	207.00	11411	316.00	707
76.00	6040	148.00	7518	208.00	2567	323.00	8891
77.00	117336	149.00	668	211.00	3164	324.00	672
78.00	8472	153.00	914	216.00	783	327.00	775
79.00	6850	154.00	788	217.00	21288	334.00	5558
80.00	5401	155.00	4007	218.00	2851	346.00	1586
81.00	7971	156.00	6175	221.00	21128	352.00	2198
82.00	1516	160.00	1664	223.00	4917	353.00	813
83.00	1540	161.00	3469	224.00	47576	354.00	2334
86.00	3530	165.00	2796	225.00	11863	365.00	11977
91.00	1423	166.00	1689	227.00	17616	366.00	809
92.00	1511	167.00	14270	228.00	2547	372.00	5151
93.00	12327	168.00	7598	229.00	4129	402.00	1699
98.00	9312	173.00	740	231.00	741	403.00	2468
99.00	8157	174.00	3118	237.00	720	421.00	2199
101.00	4874	175.00	5843	242.00	2646	422.00	2004
104.00	2893	176.00	710	243.00	2898	423.00	20352
105.00	2773	177.00	2663	244.00	41256	424.00	4730
107.00	38432	179.00	11112	245.00	5346	441.00	53520
108.00	6152	180.00	8200	246.00	6651	442.00	374080
110.00	75432	181.00	3730	254.00	833	443.00	74040
111.00	11047	185.00	5465	255.00	195520	444.00	7022
116.00	1701	186.00	43392	256.00	29104		
117.00	26736	187.00	12254	257.00	2342		
118.00	1522	189.00	1759	258.00	10581		
122.00	2480	192.00	3535	259.00	690		

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00066	Instrument:	NT14
Calibration Date:	12/30/2022	Column (1):	ZB-5MS

Calibration Comments: 8270E, 625.1 SVOA ICAL

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	**RRF**	Conc	RRF	Conc	RRF	Conc	**RRF**	Conc	**RRF**
Phenol	0.2	2.248898	0.5	1.851836	1	1.76565	2.5	1.637458	5	1.696739	10	1.715084
bis(2-chloroethyl) ether	0.2	1.54497	0.5	1.245135	1	1.34222	2.5	1.110277	5	1.12874	10	1.14099
2-Chlorophenol	0.2	1.763769	0.5	1.495197	1	1.42085	2.5	1.310292	5	1.380644	10	1.425301
1,3-Dichlorobenzene	0.2	1.928027	0.5	1.560917	1	1.676215	2.5	1.390052	5	1.417896	10	1.429853
1,4-Dichlorobenzene	0.2	1.843668	0.5	1.466644	1	1.592102	2.5	1.311013	5	1.341617	10	1.364501
1,2-Dichlorobenzene	0.2	1.744909	0.5	1.460902	1	1.559256	2.5	1.282346	5	1.32894	10	1.345527
Benzyl Alcohol	0.2	0.8424446	0.5	0.7382943	1	0.7805735	2.5	0.7300673	5	0.8150927	10	0.8389534
2,2'-Oxybis(1-chloropropane)	0.2	0.5275633	0.5	0.4123621	1	0.457572	2.5	0.3490262	5	0.3953408	10	0.3690057
2-Methylphenol	0.2	1.550705	0.5	1.321363	1	1.270208	2.5	1.19752	5	1.258742	10	1.275566
Hexachloroethane	0.2	0.6430155	0.5	0.5189899	1	0.5636454	2.5	0.4817415	5	0.5075007	10	0.5227387
N-Nitroso-di-n-Propylamine	0.2	0.8597752	0.5	0.7423441	1	0.8554759	2.5	0.7406317	5	0.7827459	10	0.7957393
4-Methylphenol	0.2	1.603588	0.5	1.37883	1	1.339681	2.5	1.251051	5	1.351153	10	1.369765
Nitrobenzene	0.2	0.3885811	0.5	0.3167636	1	0.3452801	2.5	0.300009	5	0.3198136	10	0.33438
Isophorone	0.2	0.4170687	0.5	0.3515477	1	0.4141958	2.5	0.3791228	5	0.434338	10	0.4606781
2-Nitrophenol	0.2	0.2171999	0.5	0.1688016	1	0.1740442	2.5	0.1776769	5	0.2185774	10	0.2277228
2,4-Dimethylphenol	0.4	0.4183843	1	0.3570024	2	0.3338109	5	0.3162839	10	0.330235	20	0.3731136
Bis(2-Chloroethoxy)methane	0.2	0.4034213	0.5	0.3269736	1	0.3533537	2.5	0.2991252	5	0.3061148	10	0.3154836
2,4-Dichlorophenol	0.4	0.3181166	1	0.2810633	2	0.2997364	5	0.2607662	10	0.2834456	20	0.3225223
1,2,4-Trichlorobenzene	0.2	0.3995622	0.5	0.324568	1	0.3351147	2.5	0.2818674	5	0.2887319	10	0.2977799
Naphthalene	0.2	1.221526	0.5	0.9676198	1	1.034687	2.5	0.8739434	5	0.9080378	10	0.9400435
Benzoic acid	0.8	3.061006E-02	2	4.967613E-02	4	8.177999E-02	10	0.1546339	20	0.2250023	40	0.2411076
4-Chloroaniline			1	0.3947866	2	0.4154458	5	0.399002	10	0.3994688	20	0.4154909
Hexachlorobutadiene	0.2	0.1875546	0.5	0.1547453	1	0.1612926	2.5	0.1397884	5	0.1480313	10	0.1540463
4-Chloro-3-Methylphenol			1	0.2703707	2	0.2601314	5	0.2579195	10	0.2840888	20	0.2969454
2-Methylnaphthalene	0.2	0.8553626	0.5	0.6940042	1	0.6998589	2.5	0.6439067	5	0.6834666	10	0.7272495
Hexachlorocyclopentadiene			1	0.2489397	2	0.2936375	5	0.2648457	10	0.3025209	20	0.3350343
2,4,6-Trichlorophenol			1	0.2870169	2	0.3015677	5	0.2999683	10	0.3458369	20	0.3696307

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00066	Instrument:	NT14
Calibration Date:	12/30/2022	Column (1):	ZB-5MS

Calibration Comments: 8270E, 625.1 SVOA ICAL

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	**RRF**	Conc	RRF	Conc	RRF	Conc	**RRF**	Conc	**RRF**
2,4,5-Trichlorophenol			1	0.361223	2	0.3578205	5	0.3421372	10	0.3965594	20	0.4168822
2-Chloronaphthalene	0.2	1.387569	0.5	1.117638	1	1.228189	2.5	1.003208	5	1.047902	10	1.09962
2-Nitroaniline			1	0.26051	2	0.3076886	5	0.2845123	10	0.306839	20	0.3231995
Acenaphthylene	0.2	2.005887	0.5	1.673991	1	1.898856	2.5	1.590349	5	1.636737	10	1.702987
Dimethylphthalate	0.2	1.295168	0.5	1.078779	1	1.237464	2.5	1.021714	5	1.068789	10	1.091726
2,6-Dinitrotoluene			1	0.2174893	2	0.2687518	5	0.2360681	10	0.2543078	20	0.269795
Acenaphthene	0.2	1.320099	0.5	1.046069	1	1.159189	2.5	0.952877	5	0.9829246	10	1.046455
3-Nitroaniline			1	0.263439	2	0.3182529	5	0.2834771	10	0.3087446	20	0.3334424
2,4-Dinitrophenol			2	8.466972E-02	4	0.1170252	10	0.1557072	20	0.2128194	40	0.2507443
Dibenzofuran	0.2	2.022082	0.5	1.603271	1	1.632918	2.5	1.42838	5	1.49489	10	1.561974
4-Nitrophenol			1	0.1081747	2	0.1206784	5	0.1281484	10	0.1510057	20	0.1581896
2,4-Dinitrotoluene			1	0.291987	2	0.3643157	5	0.3201358	10	0.3514687	20	0.3751801
Fluorene	0.2	1.979275	0.5	1.635556	1	1.791286	2.5	1.665158	5	1.52905	10	1.740605
4-Chlorophenylphenyl ether	0.2	0.9377919	0.5	0.7567725	1	0.9613786	2.5	0.7843464	5	0.8023522	10	0.8307589
Diethyl phthalate	0.2	1.509472	0.5	1.277978	1	1.756654	2.5	1.479429	5	1.529598	10	1.532929
4-Nitroaniline			1	0.3178047	2	0.2965212	5	0.241759	10	0.3722485	20	0.4060248
4,6-Dinitro-2-methylphenol	0.8	9.759356E-02	2	0.1159766	4	0.1356499	10	0.146795	20	0.171322	40	0.1898123
N-Nitrosodiphenylamine	0.2	0.7813904	0.5	0.6690073	1	0.7489188	2.5	0.6153566	5	0.622903	10	0.661175
4-Bromophenyl phenyl ether	0.2	0.2868228	0.5	0.240791	1	0.269851	2.5	0.2281866	5	0.2421925	10	0.2596596
Hexachlorobenzene	0.2	0.3466427	0.5	0.2759322	1	0.3079836	2.5	0.2476557	5	0.2580605	10	0.2695389
Pentachlorophenol			1	0.0640113	2	7.966671E-02	5	9.621021E-02	10	0.1283697	20	0.1422698
Phenanthrene	0.2	1.254213	0.5	1.013236	1	1.120205	2.5	0.9147005	5	0.9459468	10	0.9933942
Anthracene	0.2	1.044702	0.5	0.906473	1	1.045236	2.5	0.8974573	5	0.9652021	10	1.020208
Carbazole	0.2	1.021112	0.5	0.888071	1	1.031749	2.5	0.8588563	5	0.8817249	10	0.9675384
Di-n-Butylphthalate	0.2	0.8688936	0.5	0.7908636	1	0.9951583	2.5	0.944274	5	1.107194	10	1.216543
Fluoranthene	0.2	1.416487	0.5	1.176839	1	1.353283	2.5	1.138026	5	1.253927	10	1.307348
Pyrene	0.2	1.499816	0.5	1.279695	1	1.42524	2.5	1.187021	5	1.297954	10	1.370745

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00066	Instrument:	NT14
Calibration Date:	12/30/2022	Column (1):	ZB-5MS

Calibration Comments: 8270E, 625.1 SVOA ICAL

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	**RRF**	Conc	RRF	Conc	RRF	Conc	**RRF**	Conc	**RRF**
Butylbenzylphthalate	0.2	0.3971468	0.5	0.3500694	1	0.4531885	2.5	0.4347242	5	0.5331431	10	0.5343125
Benzo(a)anthracene	0.2	1.357158	0.5	1.139124	1	1.286088	2.5	1.073783	5	1.163081	10	1.221004
3,3'-Dichlorobenzidine			1.5	0.3560182	3	0.3921513	7.5	0.3181743	15	0.3074182	30	0.3974804
Chrysene	0.2	1.345974	0.5	1.119691	1	1.215346	2.5	0.995944	5	1.070155	10	1.114624
bis(2-Ethylhexyl)phthalate	0.2	0.3956958	0.5	0.3633061	1	0.4722937	2.5	0.4399021	5	0.4595073	10	0.4959663
Di-n-Octylphthalate	0.2	1.203656	0.5	0.9783901	1	1.062281	2.5	0.8652733	5	0.8559596	10	0.8908453
Benzofluoranthenes, Total	0.4	1.323037	1	1.095539	2	1.244146	5	1.065182	10	1.167852	20	1.259214
Benzo(a)pyrene	0.2	1.066264	0.5	0.9048211	1	1.044788	2.5	0.9273461	5	1.03294	10	1.128387
Indeno(1,2,3-cd)pyrene	0.2	1.237356	0.5	1.045968	1	1.215216	2.5	1.074254	5	1.154658	10	1.247956
Dibenzo(a,h)anthracene	0.2	1.080467	0.5	0.8919761	1	1.02679	2.5	0.8964822	5	0.9628485	10	1.063732
Benzo(g,h,i)perylene	0.2	1.090313	0.5	0.8982822	1	1.020279	2.5	0.8945793	5	0.939054	10	1.031269
1-Methylnaphthalene	0.2	0.8101755	0.5	0.6671364	1	0.6728227	2.5	0.6197289	5	0.661132	10	0.6978153
2-Fluorophenol	0.3	1.456024	0.75	1.192829	1.5	1.408281	3.75	1.19259	7.5	1.242464	15	1.255297
Phenol-d5	0.3	1.690921	0.75	1.442174	1.5	1.685939	3.75	1.45879	7.5	1.57335	15	1.611467
2-Chlorophenol-d4	0.3	1.459762	0.75	1.22369	1.5	1.42935	3.75	1.223216	7.5	1.296086	15	1.334425
1,2-Dichlorobenzene-d4	0.2	1.070291	0.5	0.8775768	1	0.9854004	2.5	0.8052268	5	0.849654	10	0.8797075
Nitrobenzene-d5	0.2	0.3603743	0.5	0.2993225	1	0.3461398	2.5	0.306944	5	0.3334126	10	0.3526347
2-Fluorobiphenyl	0.2	1.590987	0.5	1.260855	1	1.468992	2.5	1.200146	5	1.247683	10	1.303056
2,4,6-Tribromophenol			0.75	0.1314566	1.5	0.1781234	3.75	0.1642932	7.5	0.192641	15	0.2085371
p-Terphenyl-d14	0.2	1.112516	0.5	0.9073567	1	1.063354	2.5	0.8607743	5	0.9199812	10	0.9255223

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00066	Instrument:	NT14
Calibration Date:	12/30/2022	Column (1):	ZB-5MS

Calibration Comments: 8270E, 625.1 SVOA ICAL

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Phenol	20	1.680974										
bis(2-chloroethyl) ether	20	1.165055										
2-Chlorophenol	20	1.428978										
1,3-Dichlorobenzene	20	1.439592										
1,4-Dichlorobenzene	20	1.352304										
1,2-Dichlorobenzene	20	1.351887										
Benzyl Alcohol	20	0.8623322										
2,2'-Oxybis(1-chloropropane)	20	0.4097572										
2-Methylphenol	20	1.279195										
Hexachloroethane	20	0.5402442										
N-Nitroso-di-n-Propylamine	20	0.7992017										
4-Methylphenol	20	1.3619										
Nitrobenzene	20	0.3433745										
Isophorone	20	0.5358455										
2-Nitrophenol	20	0.261475										
2,4-Dimethylphenol	40	0.3219617										
Bis(2-Chloroethoxy)methane	20	0.3237199										
2,4-Dichlorophenol	40	0.3002153										
1,2,4-Trichlorobenzene	20	0.3061376										
Naphthalene	20	0.9448258										
Benzoic acid	80	0.2734244										
4-Chloroaniline	40	0.4115465										
Hexachlorobutadiene	20	0.1628415										
4-Chloro-3-Methylphenol	40	0.3015602										
2-Methylnaphthalene	20	0.7506691										
Hexachlorocyclopentadiene	40	0.3692388										
2,4,6-Trichlorophenol	40	0.3991639										

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00066	Instrument:	NT14
Calibration Date:	12/30/2022	Column (1):	ZB-5MS

Calibration Comments: 8270E, 625.1 SVOA ICAL

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
2,4,5-Trichlorophenol	40	0.437318										
2-Chloronaphthalene	20	1.124676										
2-Nitroaniline	40	0.3220241										
Acenaphthylene	20	1.70286										
Dimethylphthalate	20	1.102727										
2,6-Dinitrotoluene	40	0.2810509										
Acenaphthene	20	1.066498										
3-Nitroaniline	40	0.3491574										
2,4-Dinitrophenol	80	0.2780648										
Dibenzofuran	20	1.614649										
4-Nitrophenol	40	0.1642219										
2,4-Dinitrotoluene	40	0.3926278										
Fluorene	20	1.742016										
4-Chlorophenylphenyl ether	20	0.8421541										
Diethyl phthalate	20	1.646826										
4-Nitroaniline	40	0.4138808										
4,6-Dinitro-2-methylphenol	80	0.2140455										
N-Nitrosodiphenylamine	20	0.7059401										
4-Bromophenyl phenyl ether	20	0.2918486										
Hexachlorobenzene	20	0.2907292										
Pentachlorophenol	40	0.1664906										
Phenanthrene	20	1.058738										
Anthracene	20	1.090063										
Carbazole	20	1.08841										
Di-n-Butylphthalate	20	1.353364										
Fluoranthene	20	1.369675										
Pyrene	20	1.418654										

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00066	Instrument:	NT14
Calibration Date:	12/30/2022	Column (1):	ZB-5MS

Calibration Comments: 8270E, 625.1 SVOA ICAL

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Butylbenzylphthalate	20	0.5529701										
Benzo(a)anthracene	20	1.241812										
3,3'-Dichlorobenzidine	60	0.4543797										
Chrysene	20	1.150279										
bis(2-Ethylhexyl)phthalate	20	0.4829547										
Di-n-Octylphthalate	20	0.8647859										
Benzofluoranthenes, Total	40	1.352364										
Benzo(a)pyrene	20	1.210557										
Indeno(1,2,3-cd)pyrene	20	1.340235										
Dibenzo(a,h)anthracene	20	1.144126										
Benzo(g,h,i)perylene	20	1.092432										
1-Methylnaphthalene	20	0.7277069										
2-Fluorophenol	30	1.222943										
Phenol-d5	30	1.623181										
2-Chlorophenol-d4	30	1.343825										
1,2-Dichlorobenzene-d4	20	0.8955576										
Nitrobenzene-d5	20	0.3656038										
2-Fluorobiphenyl	20	1.34248										
2,4,6-Tribromophenol	30	0.2318554										
p-Terphenyl-d14	20	0.9317848										

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00066	Instrument:	NT14
Calibration Date:	12/30/2022	Column (1):	ZB-5MS

Calibration Comments: 8270E, 625.1 SVOA ICAL

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Phenol	1.79952	11.7			RSD (15)	
bis(2-chloroethyl) ether	1.239627	12.7			RSD (15)	
2-Chlorophenol	1.460719	9.9			RSD (15)	
1,3-Dichlorobenzene	1.548936	12.6			RSD (15)	
1,4-Dichlorobenzene	1.467407	13.1			RSD (15)	
1,2-Dichlorobenzene	1.43911	11.4			RSD (15)	
Benzyl Alcohol	0.8011083	6.5			RSD (15)	
2,2'-Oxybis(1-chloropropane)	0.4172325	14.3			RSD (15)	
2-Methylphenol	1.307614	8.7			RSD (15)	
Hexachloroethane	0.5396966	9.7			RSD (15)	
N-Nitroso-di-n-Propylamine	0.7965591	6.0			RSD (15)	
4-Methylphenol	1.379424	7.8			RSD (15)	
Nitrobenzene	0.3354574	8.5			RSD (15)	
Isophorone	0.4275424	13.9			RSD (15)	
2-Nitrophenol	0.2064997	16.6		0.9994	QCOD (0.99)	
2,4-Dimethylphenol	0.3501131	10.3			RSD (15)	
Bis(2-Chloroethoxy)methane	0.3325989	10.8			RSD (15)	
2,4-Dichlorophenol	0.2951237	7.4			RSD (15)	
1,2,4-Trichlorobenzene	0.3191088	12.6			RSD (15)	
Naphthalene	0.9843833	11.8			RSD (15)	
Benzoic acid	0.1508906	65.2		0.9964	QCOD (0.99)	
4-Chloroaniline	0.4059568	2.3			RSD (15)	
Hexachlorobutadiene	0.1583286	9.5			RSD (15)	
4-Chloro-3-Methylphenol	0.2785027	6.7			RSD (15)	
2-Methylnaphthalene	0.7220739	9.4			RSD (15)	
Hexachlorocyclopentadiene	0.3023695	14.7			RSD (15)	
2,4,6-Trichlorophenol	0.3338641	13.4			RSD (15)	
2,4,5-Trichlorophenol	0.3853234	9.7			RSD (15)	
2-Chloronaphthalene	1.144115	11.2			RSD (15)	
2-Nitroaniline	0.3007956	8.0			RSD (15)	

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00066	Instrument:	NT14
Calibration Date:	12/30/2022	Column (1):	ZB-5MS

Calibration Comments: 8270E, 625.1 SVOA ICAL

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Acenaphthylene	1.744524	8.6			RSD (15)	
Dimethylphthalate	1.128052	8.8			RSD (15)	
2,6-Dinitrotoluene	0.2545771	9.4			RSD (15)	
Acenaphthene	1.082016	11.4			RSD (15)	
3-Nitroaniline	0.3094189	10.2			RSD (15)	
2,4-Dinitrophenol	0.1831718	41.8		0.9961	QCOD (0.99)	
Dibenzofuran	1.622595	11.7			RSD (15)	
4-Nitrophenol	0.1384031	16.3		0.9992	QCOD (0.99)	
2,4-Dinitrotoluene	0.3492859	10.6			RSD (15)	
Fluorene	1.726135	8.2			RSD (15)	
4-Chlorophenylphenyl ether	0.8450792	9.1			RSD (15)	
Diethyl phthalate	1.533269	9.7			RSD (15)	
4-Nitroaniline	0.3413732	19.8		0.9965	QCOD (0.99)	
4,6-Dinitro-2-methylphenol	0.1530278	26.9		0.9992	QCOD (0.99)	
N-Nitrosodiphenylamine	0.6863845	9.1			RSD (15)	
4-Bromophenyl phenyl ether	0.2599074	9.3			RSD (15)	
Hexachlorobenzene	0.2852204	11.8			RSD (15)	
Pentachlorophenol	0.1128364	34.9		0.9979	QCOD (0.99)	
Phenanthrene	1.042919	11.1			RSD (15)	
Anthracene	0.9956202	7.4			RSD (15)	
Carbazole	0.9624945	9.2			RSD (15)	
Di-n-Butylphthalate	1.03947	19.1		0.9993	QCOD (0.99)	
Fluoranthene	1.287941	8.0			RSD (15)	
Pyrene	1.354161	7.8			RSD (15)	
Butylbenzylphthalate	0.4650792	16.7		0.9993	QCOD (0.99)	
Benzo(a)anthracene	1.211721	7.9			RSD (15)	
3,3'-Dichlorobenzidine	0.370937	14.8			RSD (15)	
Chrysene	1.144573	9.8			RSD (15)	
bis(2-Ethylhexyl)phthalate	0.4442323	10.9			RSD (15)	
Di-n-Octylphthalate	0.9601702	13.7			RSD (15)	

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00066	Instrument:	NT14
Calibration Date:	12/30/2022	Column (1):	ZB-5MS

Calibration Comments: 8270E, 625.1 SVOA ICAL

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Benzofluoranthenes, Total	1.215333	9.0			RSD (15)	
Benzo(a)pyrene	1.045015	10.2			RSD (15)	
Indeno(1,2,3-cd)pyrene	1.187949	8.7			RSD (15)	
Dibenzo(a,h)anthracene	1.009489	9.5			RSD (15)	
Benzo(g,h,i)perylene	0.9951726	8.5			RSD (15)	
1-Methylnaphthalene	0.6937882	8.8			RSD (15)	
2-Fluorophenol	1.28149	8.3			RSD (15)	
Phenol-d5	1.583689	6.3			RSD (15)	
2-Chlorophenol-d4	1.330051	6.9			RSD (15)	
1,2-Dichlorobenzene-d4	0.9090592	9.9			RSD (15)	
Nitrobenzene-d5	0.337776	7.7			RSD (15)	
2-Fluorobiphenyl	1.344886	10.3			RSD (15)	
2,4,6-Tribromophenol	0.1844845	19.0		0.9994	QCOD (0.99)	
p-Terphenyl-d14	0.9601842	9.5			RSD (15)	

Printed: 1/4/2023 8:44:50AM

ANALYSIS SEQUENCE

SKL0355

Instrument: NT14 Element Column ID: K005461
Calibration ID: FL00066 Tune File: 221222.U
EM Voltage: 1647

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SKL0355-TUN1	MS Tune	QC		1	K004775		12/30/2022 07:53	NT1422123001.D	VTS	
SKL0355-CAL5	CAL 5	QC		2	K011109	K010831	12/30/2022 08:06	NT1422123002.D	VTS	
SKL0355-CAL7	CAL 20	QC		3	K011111	K010831	12/30/2022 08:42	NT1422123003.D	VTS	
SKL0355-CAL1	CAL 0.2	QC		4	K011105	K010831	12/30/2022 09:18	NT1422123004.D	VTS	
SKL0355-CAL6	CAL 10	QC		5	K011110	K010831	12/30/2022 09:54	NT1422123005.D	VTS	
SKL0355-CAL2	CAL 0.5	QC		6	K011106	K010831	12/30/2022 10:30	NT1422123006.D	VTS	
SKL0355-CAL4	CAL 2.5	QC		7	K011108	K010831	12/30/2022 11:07	NT1422123007.D	VTS	
SKL0355-CAL3	CAL 1.0	QC		8	K011107	K010831	12/30/2022 11:43	NT1422123008.D	VTS	
SKL0355-ICV1	SICV1	QC		9	K010066	K010831	12/30/2022 13:31	NT1422123011.D	VTS	
SKL0355-ICB1	Initial Cal Blank	QC		10	K005156	K010831	12/30/2022 14:08	NT1422123012.D	VTS	
SKL0355-ICV2	ABN 5	QC		11	K011109	K010831	12/30/2022 15:53	NT1422123014.D	VTS	
SKL0355-ICV3	ABN 5	QC		12	K011109	K010831				
22K0241-02RE1	HL-20221110	(20ug/kg solid or 0.2ug/L l	D 03	13		K010831	12/31/2022 06:20	NT1422123038.D	VTS	Added 1/3/2023 by VTS
22K0399-08RE1	DM-15-S-Dup	(20ug/kg solid or 0.2ug/L l	B 01	14		K010831	12/31/2022 06:56	NT1422123039.D	VTS	Added 12/24/2022 by VTS
22K0399-19RE1	DM-20-C-0-1	(20ug/kg solid or 0.2ug/L l	B 01	15		K010831	12/31/2022 07:32	NT1422123040.D	VTS	Added 12/23/2022 by VTS
22K0399-22RE1	DM-11-C-1-3	(20ug/kg solid or 0.2ug/L l	B 01	16		K010831	12/31/2022 08:08	NT1422123041.D	VTS	Added 12/23/2022 by VTS
22K0399-29RE1	DM-08-C-1-3	(20ug/kg solid or 0.2ug/L l	B 01	17		K010831	12/31/2022 08:44	NT1422123042.D	VTS	Added 12/31/2022 by VTS
SKL0355-ICV4	ABN 5	QC		18	K011109	K010831				
22K0021-01RE1	EWWST9-110122	(20ug/kg solid or 0.2ug/L l	A 02	19		K010831				Added 12/20/2022 by VTS
22K0045-01RE1	304509-01	(20ug/kg solid or 0.2ug/L l	A 02	20		K010831				Added 12/20/2022 by VTS
22K0045-02RE1	304509-02	(20ug/kg solid or 0.2ug/L l	A 02	21		K010831				Added 12/20/2022 by VTS
22K0045-03RE1	304509-03	(20ug/kg solid or 0.2ug/L l	A 02	22		K010831				Added 12/20/2022 by VTS

ANALYSIS SEQUENCE

SKL0355

Instrument: NT14 Element Column ID: K005461
Calibration ID: FL00066 Tune File: 221222.U
EM Voltage: 1647

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
22K0045-04RE1	304509-04	(20ug/kg solid or 0.2ug/L l	A 02	23		K010831				Added 12/20/2022 by VTS
22K0045-05RE1	304509-05	(20ug/kg solid or 0.2ug/L l	A 02	24		K010831				Added 12/20/2022 by VTS
SKL0355-ICV5	ABN 5	QC		25	K011109	K010831				
BKL0193-BLK1	Blank	QC		26		K010831				
BKL0193-BS1	LCS	QC		27		K010831				
BKL0193-BSD1	LCS Dup	QC		28		K010831				
BKL0193-SRM1	Reference	QC		29		K010831				
BKL0193-MS1	Matrix Spike	QC		30		K010831				
BKL0193-MSD1	Matrix Spike Dup	QC		31		K010831				
22L0104-01	LDW22-SS773	(20ug/kg solid or 0.2ug/L l	B 02	32		K010831				
22L0104-02	LDW22-SS774	(20ug/kg solid or 0.2ug/L l	B 02	33		K010831				If started finish and hold extract
22L0136-01	LDW22-SS823	(20ug/kg solid or 0.2ug/L l	A 02	34		K010831				
22L0136-08	LDW22-SS786	(20ug/kg solid or 0.2ug/L l	A 02	35		K010831				
22L0136-09	LDW22-SS766	(20ug/kg solid or 0.2ug/L l	A 02	36		K010831				
22L0136-10	LDW22-SS771	(20ug/kg solid or 0.2ug/L l	A 02	37		K010831				
22L0136-11	LDW22-SS771-FD	(20ug/kg solid or 0.2ug/L l	A 02	38		K010831				
22L0136-12	LDW22-SS772	(20ug/kg solid or 0.2ug/L l	A 02	39		K010831				
SKL0355-CCV1	ABN 5	QC		40	K011109	K010834				

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230.b

	Time	Filename	LabID	ClientId	DF																			
1	0753	NT1422123001.D	SKL0355-TUN1		1	|NO ISTDS FOUND||																		
2	0806	NT1422123002.D	SKL0355-CAL5		1	| 9.18	151013	||11.69	553510	||15.33	305411	||18.38	491708	||23.42	424740	||26.10	395150	||24.44	684951 |
3	0842	NT1422123003.D	SKL0355-CAL7		1	| 9.18	143300	||11.70	507556	||15.33	290278	||18.38	423275	||23.42	399899	||26.11	359748	||24.44	687276 |
4	0918	NT1422123004.D	SKL0355-CAL1		1	| 9.18	156948	||11.69	570074	||15.33	297614	||18.37	498496	||23.41	404183	||26.10	371728	||24.44	540769 |
5	0954	NT1422123005.D	SKL0355-CAL6		1	| 9.18	144388	||11.69	520524	||15.33	291597	||18.38	457445	||23.42	408635	||26.10	373712	||24.44	652062 |
6	1030	NT1422123006.D	SKL0355-CAL2		1	| 9.18	156057	||11.69	571985	||15.33	301808	||18.37	495600	||23.41	403440	||26.10	378046	||24.44	538411 |
7	1107	NT1422123007.D	SKL0355-CAL4		1	| 9.18	144333	||11.69	532256	||15.33	287473	||18.37	465065	||23.41	401380	||26.10	368275	||24.44	554407 |
8	1143	NT1422123008.D	SKL0355-CAL3		1	| 9.18	148086	||11.69	558364	||15.33	288519	||18.37	472142	||23.41	394732	||26.10	370479	||24.44	526757 |
9	1219	NT1422123009.D	SKL0356-CAL1		1	| 9.18	146141	||11.69	533259	||15.33	275387	||18.37	457503	||23.41	370157	||26.10	345259	||24.44	434329 |
10	1255	NT1422123010.D			1	| 9.18	150179	||11.69	554597	||15.33	282107	||18.37	470125	||23.41	374625	||26.10	352812	||24.44	438400 |
11	1331	NT1422123011.D	SKL0355-ICV1		1	| 9.18	145276	||11.69	542519	||15.33	292314	||18.37	478070	||23.42	412507	||26.10	379639	||24.44	590464 |
12	1408	NT1422123012.D	SKL0355-ICB1		1	| 9.18	174509	||11.69	641934	||15.33	335436	||18.37	560033	||23.41	444498	||26.10	423100	||24.44	541261 |
13	1516	NT1422123013.D		NOT USING	1	| 9.18	146864	||11.69	550707	||15.33	275006	||18.37	643649	||23.42	583196	||26.11	599166	||24.44	900001 |
14	1553	NT1422123014.D	SKL0355-ICV2		1	| 9.18	130476	||11.69	484478	||15.33	261445	||18.37	412822	||23.41	349122	||26.10	327130	||24.44	522046 |
15	1629	NT1422123015.D			1	| 9.18	132066	||11.69	499724	||15.33	257503	||18.37	413048	||23.41	335724	||26.09	308207	||24.44	434247 |
16	1705	NT1422123016.D	BKK0733-BLK1		1	| 9.18	126906	||11.69	483124	||15.32	256877	||18.37	444495	||23.41	333261	||26.09	320178	||24.44	495841 |
17	1741	NT1422123017.D	BKK0733-BS1		1	| 9.18	124003	||11.69	465208	||15.33	251001	||18.37	418062	||23.41	342657	||26.10	324681	||24.44	577170 |
18	1818	NT1422123018.D	BKK0733-BSD1		1	| 9.18	124976	||11.69	467689	||15.33	258016	||18.37	428907	||23.41	356316	||26.09	340564	||24.44	643011 |
19	1854	NT1422123019.D	22K0399-01		1	| 9.18	121953	||11.69	458530	||15.32	242934	||18.37	396367	||23.41	291013	||26.10	344522	||24.44	561675 |
20	1930	NT1422123020.D	BKK0733-MS1		1	| 9.18	115884	||11.69	434586	||15.33	230677	||18.38	374636	||23.42	295274	||26.11	347439	||24.44	560195 |

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230.b

	Time	Filename	LabID	ClientId	DF																
21	2006	NT1422123021.D	BKK0733-MSD1		1	9.18	115038	11.69	422786	15.33	231453	18.38	377450	23.42	296619	26.11	342779	24.44	551214		
22	2042	NT1422123022.D	22K0399-07		1	9.18	118717	11.69	440463	15.33	235964	18.38	394316	23.42	287701	26.11	334549	24.44	535369		
23	2119	NT1422123023.D	22K0399-08		1	9.18	119344	11.69	442541	15.33	234795	18.38	389401	23.42	283797	26.11	329236	24.44	507254		
24	2155	NT1422123024.D	22K0399-31		1	9.18	120549	11.69	456717	15.33	235065	18.38	385218	23.42	290921	26.12	332471	24.44	522799		
25	2231	NT1422123025.D	22K0399-43		1	9.18	115488	11.69	438973	15.33	230528	18.38	372346	23.42	316873	26.13	312137	24.45	540998		
26	2307	NT1422123026.D	22K0399-44		1	9.18	114799	11.69	429093	15.33	225512	18.38	375444	23.42	344033	26.14	334179	24.45	548267		
27	2343	NT1422123027.D	BKK0733-SRM1		1	9.18	116509	11.69	420160	15.33	224093	18.38	385101	23.42	308820	26.10	324504	24.44	539884		

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230.b

Instrument: nt14.i Date: 30-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
0753	NT1422123001.D	SKL0355-TUN1	1	NO MANUAL INTEGRATION
0806	NT1422123002.D	SKL0355-CAL5	1	2,2'-oxybis(1-Chloropropane), Benzo(g,h,i)perylene,
0842	NT1422123003.D	SKL0355-CAL7	1	2,2'-oxybis(1-Chloropropane),
0918	NT1422123004.D	SKL0355-CAL1	1	2,2'-oxybis(1-Chloropropane), Benzoic acid,
0954	NT1422123005.D	SKL0355-CAL6	1	2,2'-oxybis(1-Chloropropane),
1030	NT1422123006.D	SKL0355-CAL2	1	2,2'-oxybis(1-Chloropropane), Benzoic acid,
1107	NT1422123007.D	SKL0355-CAL4	1	2,2'-oxybis(1-Chloropropane),
1143	NT1422123008.D	SKL0355-CAL3	1	2,2'-oxybis(1-Chloropropane),
1219	NT1422123009.D	SKL0356-CAL1	1	NO MANUAL INTEGRATION
1255	NT1422123010.D		1	NO MANUAL INTEGRATION
1331	NT1422123011.D	SKL0355-ICV1	1	NO MANUAL INTEGRATION
1408	NT1422123012.D	SKL0355-ICB1	1	NO MANUAL INTEGRATION
1516	NT1422123013.D		1	NO MANUAL INTEGRATION
1553	NT1422123014.D	SKL0355-ICV2	1	NO MANUAL INTEGRATION
1629	NT1422123015.D		1	NO MANUAL INTEGRATION
1705	NT1422123016.D	BKK0733-BLK1	1	NO MANUAL INTEGRATION
1741	NT1422123017.D	BKK0733-BS1	1	NO MANUAL INTEGRATION

Instrument: nt14.i Date: 30-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
1818	NT1422123018.D	BKK0733-BSD1	1	NO MANUAL INTEGRATION
1854	NT1422123019.D	22K0399-01	1	NO MANUAL INTEGRATION
1930	NT1422123020.D	BKK0733-MS1	1	NO MANUAL INTEGRATION
2006	NT1422123021.D	BKK0733-MSD1	1	NO MANUAL INTEGRATION
2042	NT1422123022.D	22K0399-07	1	NO MANUAL INTEGRATION
2119	NT1422123023.D	22K0399-08	1	NO MANUAL INTEGRATION
2155	NT1422123024.D	22K0399-31	1	NO MANUAL INTEGRATION
2231	NT1422123025.D	22K0399-43	1	NO MANUAL INTEGRATION
2307	NT1422123026.D	22K0399-44	1	NO MANUAL INTEGRATION
2343	NT1422123027.D	BKK0733-SRM1	1	NO MANUAL INTEGRATION

Security Status Report

Date: 04-Jan-2023 08:39

NT1422123001.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123002.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123003.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123004.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123005.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123006.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123007.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123008.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123009.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123010.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123011.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123012.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123013.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123014.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123015.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123016.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123017.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123018.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123019.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123020.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123021.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123022.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123023.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123024.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123025.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123026.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123027.D	Data Locked	van, 04-Jan-2023 08:39

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-DEC-2022 08:06
End Cal Date : 30-DEC-2022 11:43
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Last Edit : 30-Dec-2022 17:01 deenayd

Calibration File Names:
Level 1: \\target\share\chem3\nt14.i\20221230.b\NT1422123004.D
Level 2: \\target\share\chem3\nt14.i\20221230.b\NT1422123006.D
Level 3: \\target\share\chem3\nt14.i\20221230.b\NT1422123008.D
Level 4: \\target\share\chem3\nt14.i\20221230.b\NT1422123007.D
Level 5: \\target\share\chem3\nt14.i\20221230.b\NT1422123002.D
Level 6: \\target\share\chem3\nt14.i\20221230.b\NT1422123005.D
Level 7: \\target\share\chem3\nt14.i\20221230.b\NT1422123003.D

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

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-DEC-2022 08:06
End Cal Date : 30-DEC-2022 11:43
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Last Edit : 30-Dec-2022 17:01 deenayd

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

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-DEC-2022 08:06
End Cal Date : 30-DEC-2022 11:43
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Last Edit : 30-Dec-2022 17:01 deenayd

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

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

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

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

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
143 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	
120 2,3,4,6-Tetrachlorophenol	3081	7674	16275	43442	110018	230505						
	511264						QUAD	0.000e+000	3.55507	-0.40963	0.99950	
178 2-Benzyl-4-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
119 7,12-Dimethylbenz(a)anthracen	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	
118 Triphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
117 Butyl Diphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
116 Dibutyl Phenyl Phosphate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
115 Tributyl Phosphate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
114 Beta-Pinene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
113 Diphenyl Oxide	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
112 Biphenyl	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
111 Azobenzene (1,2-DP-Hydrazine)	1.68258 / 1.36696	1.46194	1.65694	1.39901	1.40938	1.42114	AVRG		1.48542		8.70237	
110 Tetrachloroguaiacol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

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

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
106 Guaiacol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
105 1-methylnaphthalene	0.81018	0.66714	0.67282	0.61973	0.66113	0.69782						
	0.72771						AVRG		0.69379		8.80958	
151 1,2,4,5-Tetrachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
152 Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	
153 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	
154 Diazinon	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	
155 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	

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

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
163 1,2,3,5,8-Pentachloronaphthal	***** / *****	*****	*****	*****	*****	*****	AVRG		0.000e+000		0.000e+000
164 1,2,3,4,6,7-Hexachloronaphtha	***** / *****	*****	*****	*****	*****	*****	AVRG		0.000e+000		0.000e+000
165 1,2,3,4,5,6,7-Heptachloronaph	***** / *****	*****	*****	*****	*****	*****	AVRG		0.000e+000		0.000e+000
166 Octachloronaphthalene	***** / *****	*****	*****	*****	*****	*****	AVRG		0.000e+000		0.000e+000
167 2,2',4,4',5-Pentabromobipheny	***** / *****	*****	*****	*****	*****	*****	AVRG		0.000e+000		0.000e+000
3 Phenol	2.24890 / 1.68097	1.85184	1.76565	1.63746	1.69674	1.71508	AVRG		1.79952		11.65290
4 Bis(2-Chloroethyl)ether	1.54497 / 1.16506	1.24513	1.34222	1.11028	1.12874	1.14099	AVRG		1.23963		12.67426

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
6 2-Chlorophenol	1.76377	1.49520	1.42085	1.31029	1.38064	1.42530					
	1.42898						AVRG		1.46072		9.91755
7 1,3-Dichlorobenzene	1.92803	1.56092	1.67622	1.39005	1.41790	1.42985					
	1.43959						AVRG		1.54894		12.60186
9 1,4-Dichlorobenzene	1.84367	1.46664	1.59210	1.31101	1.34162	1.36450					
	1.35230						AVRG		1.46741		13.08603
11 Benzyl alcohol	0.84244	0.73829	0.78057	0.73007	0.81509	0.83895					
	0.86233						AVRG		0.80111		6.54578
12 1,2-Dichlorobenzene	1.74491	1.46090	1.55926	1.28235	1.32894	1.34553					
	1.35189						AVRG		1.43911		11.40035
13 2-Methylphenol	1.55070	1.32136	1.27021	1.19752	1.25874	1.27557					
	1.27919						AVRG		1.30761		8.66486
14 2,2'-oxybis(1-Chloropropane)	4140	8044	16940	31485	74627	133200					
	293591						QUAD	0.000e+000	2.78633	-0.16655	0.99920

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15 4-Methylphenol	1.60359	1.37883	1.33968	1.25105	1.35115	1.36976					
	1.36190						AVRG		1.37942		7.80273
16 N-Nitroso-di-n-propylamine	0.85978	0.74234	0.85548	0.74063	0.78275	0.79574					
	0.79920						AVRG		0.79656		6.00606
17 Hexachloroethane	0.64302	0.51899	0.56365	0.48174	0.50750	0.52274					
	0.54024						AVRG		0.53970		9.67545
19 Nitrobenzene	0.38858	0.31676	0.34528	0.30001	0.31981	0.33438					
	0.34337						AVRG		0.33546		8.46069
20 Isophorone	0.41707	0.35155	0.41420	0.37912	0.43434	0.46068					
	0.53585						AVRG		0.42754		13.92975
21 2-Nitrophenol	6191	12069	24295	59106	151231	296338					
	663566						QUAD	0.000e+000	4.88934	-0.81682	0.99956
22 2,4-Dimethylphenol	0.41838	0.35700	0.33381	0.31628	0.33024	0.37311					
	0.32196						AVRG		0.35011		10.32149

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
23 Bis(2-Chloroethoxy)methane	0.40342	0.32697	0.35335	0.29913	0.30611	0.31548					
	0.32372						AVRG		0.33260		10.75114
24 Benzoic acid	+++++	14207	45663	205762	622705	1255023					
	2775564						QUAD	0.000e+000	4.69405	-0.19087	0.99854
25 2,4-Dichlorophenol	18135	40191	83681	173493	392225	839403					
	1523761						QUAD	0.000e+000	3.18639	0.04188	0.99824
26 1,2,4-Trichlorobenzene	0.39956	0.32457	0.33511	0.28187	0.28873	0.29778					
	0.30614						AVRG		0.31911		12.59456
28 Naphthalene	1.22153	0.96762	1.03469	0.87394	0.90804	0.94004					
	0.94483						AVRG		0.98438		11.77442
29 4-Chloroaniline	+++++	0.39479	0.41545	0.39900	0.39947	0.41549					
	0.41155						AVRG		0.40596		2.27753
30 Hexachlorobutadiene	0.18755	0.15475	0.16129	0.13979	0.14803	0.15405					
	0.16284						AVRG		0.15833		9.52389

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Compound	0.2000000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	20.0000 Level 7										
31 4-Chloro-3-methylphenol	+++++	0.27037	0.26013	0.25792	0.28409	0.29695					
	0.30156						AVRG		0.27850		6.67952
32 2-Methylnaphthalene	0.85536	0.69400	0.69986	0.64391	0.68347	0.72725					
	0.75067						AVRG		0.72207		9.37452
33 Hexachlorocyclopentadiene	+++++	0.24894	0.29364	0.26485	0.30252	0.33503					
	0.36924						AVRG		0.30237		14.69946
34 2,4,6-Trichlorophenol	+++++	0.28702	0.30157	0.29997	0.34584	0.36963					
	0.39916						AVRG		0.33386		13.44409
35 2,4,5-Trichlorophenol	+++++	0.36122	0.35782	0.34214	0.39656	0.41688					
	0.43732						AVRG		0.38532		9.72979
37 2-Chloronaphthalene	1.38757	1.11764	1.22819	1.00321	1.04790	1.09962					
	1.12468						AVRG		1.14411		11.19934
38 2-Nitroaniline	+++++	0.26051	0.30769	0.28451	0.30684	0.32320					
	0.32202						AVRG		0.30080		8.04051

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
39 Dimethylphthalate	1.29517	1.07878	1.23746	1.02171	1.06879	1.09173						
	1.10273						AVRG		1.12805		8.79864	
40 Acenaphthylene	2.00589	1.67399	1.89886	1.59035	1.63674	1.70299						
	1.70286						AVRG		1.74452		8.62862	
41 2,6-Dinitrotoluene	+++++	0.21749	0.26875	0.23607	0.25431	0.26979						
	0.28105						AVRG		0.25458		9.38069	
43 3-Nitroaniline	+++++	0.26344	0.31825	0.28348	0.30874	0.33344						
	0.34916						AVRG		0.30942		10.24241	
44 Acenaphthene	1.32010	1.04607	1.15919	0.95288	0.98292	1.04646						
	1.06650						AVRG		1.08202		11.44000	
45 2,4-Dinitrophenol	+++++	0.08467	0.11703	0.15571	0.21282	0.25074						
	0.27806						AVRG		0.18317		41.77892	<-
46 Dibenzofuran	2.02208	1.60327	1.63292	1.42838	1.49489	1.56197						
	1.61465						AVRG		1.62260		11.74300	

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-DEC-2022 08:06
End Cal Date : 30-DEC-2022 11:43
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Last Edit : 30-Dec-2022 17:01 deenayd

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
47 4-Nitrophenol	+++++	8162	17409	46049	115297	230638					
	476700						QUAD	0.000e+000	6.75734	-0.41335	0.99959
48 2,4-Dinitrotoluene	+++++	0.29199	0.36432	0.32014	0.35147	0.37518					
	0.39263						AVRG		0.34929		10.64521
49 Fluorene	1.97928	1.63556	1.79129	1.66516	1.52905	1.74061					
	1.74202						AVRG		1.72614		8.17761
50 Diethylphthalate	1.50947	1.27798	1.75665	1.47943	1.52960	1.53293					
	1.64683						AVRG		1.53327		9.65346
51 4-Chlorophenyl-phenylether	0.93779	0.75677	0.96138	0.78435	0.80235	0.83076					
	0.84215						AVRG		0.84508		9.12091
52 4-Nitroaniline	+++++	23979	42776	86874	284222	591978					
	1201405						QUAD	0.000e+000	2.68791	-0.06783	0.99758
53 4,6-Dinitro-2-methylphenol	+++++	28739	64046	170673	421202	868287					
	1812002						QUAD	0.000e+000	5.95957	-0.30276	0.99955

ARI Labs, Inc.

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Integrator : HP RTE
Method file : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Last Edit : 30-Dec-2022 17:01 deenayd

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
54 N-Nitrosodiphenylamine	0.78139	0.66901	0.74892	0.61536	0.62290	0.66118					
	0.70594						AVRG		0.68638		9.08506
56 4-Bromophenyl-phenylether	0.28682	0.24079	0.26985	0.22819	0.24219	0.25966					
	0.29185						AVRG		0.25991		9.33117
57 Hexachlorobenzene	0.34664	0.27593	0.30798	0.24766	0.25806	0.26954					
	0.29073						AVRG		0.28522		11.80503
58 Pentachlorophenol	+++++	7931	18807	55930	157801	325403					
	704713						QUAD	0.000e+000	8.09980	-1.26443	0.99905
60 Phenanthrene	1.25421	1.01324	1.12021	0.91470	0.94595	0.99339					
	1.05874						AVRG		1.04292		11.07498
61 Anthracene	1.04470	0.90647	1.04524	0.89746	0.96520	1.02021					
	1.09006						AVRG		0.99562		7.43791
62 Carbazole	1.02111	0.88807	1.03175	0.85886	0.88172	0.96754					
	1.08841						AVRG		0.96249		9.18725

ARI Labs, Inc.

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Last Edit : 30-Dec-2022 17:01 deenayd

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
63 Di-n-butylphthalate	21657	48994	117464	274468	680520	1391254					
	2864226						QUAD	0.000e+000	0.92185	-0.02722	0.99955
64 Fluoranthene	1.41649	1.17684	1.35328	1.13803	1.25393	1.30735					
	1.36968						AVRG		1.28794		8.00806
65 Pyrene	1.49982	1.27969	1.42524	1.18702	1.29795	1.37075					
	1.41865						AVRG		1.35416		7.82345
67 Butylbenzylphthalate	8026	17654	44722	109056	283059	545847					
	1105661						QUAD	0.000e+000	1.95943	-0.05530	0.99953
68 Benzo(a)anthracene	1.35716	1.13912	1.28609	1.07378	1.16308	1.22100					
	1.24181						AVRG		1.21172		7.85360
70 3,3'-Dichlorobenzidine	+++++	0.35602	0.39215	0.31817	0.30742	0.39748					
	0.45438						AVRG		0.37094		14.84368
71 Chrysene	1.34597	1.11969	1.21535	0.99594	1.07015	1.11462					
	1.15028						AVRG		1.14457		9.75175

ARI Labs, Inc.

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
72 bis(2-Ethylhexyl)phthalate	0.39570	0.36331	0.47229	0.43990	0.45951	0.49597					
	0.48295						AVRG		0.44423		10.92030
73 Di-n-octylphthalate	1.20366	0.97839	1.06228	0.86527	0.85596	0.89085					
	0.86479						AVRG		0.96017		13.69944
74 Benzo(b)fluoranthene	1.29643	1.06474	1.31960	1.11886	1.25593	1.32801					
	1.41604						AVRG		1.25709		9.84273
75 Benzo(k)fluoranthene	1.45095	1.20794	1.28150	1.10572	1.19408	1.30815					
	1.40788						AVRG		1.27946		9.53602
187 Total Benzofluoranthenes	1.32304	1.09554	1.24415	1.06518	1.16785	1.25921					
	1.35236						AVRG		1.21533		9.03129
76 Benzo(a)pyrene	1.06626	0.90482	1.04479	0.92735	1.03294	1.12839					
	1.21056						AVRG		1.04501		10.22109
78 Indeno(1,2,3-cd)pyrene	1.23736	1.04597	1.21522	1.07425	1.15466	1.24796					
	1.34024						AVRG		1.18795		8.70548

ARI Labs, Inc.

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
79 Dibenzo(a,h)anthracene	1.08047	0.89198	1.02679	0.89648	0.96285	1.06373					
	1.14413						AVRG		1.00949		9.49823
80 Benzo(g,h,i)perylene	1.09031	0.89828	1.02028	0.89458	0.93905	1.03127					
	1.09243						AVRG		0.99517		8.51662
90 N-Nitrosodimethylamine	1.05149	0.88437	0.97997	0.83613	0.85202	0.84122					
	0.73278						AVRG		0.88257		11.81707
91 Aniline	2.10293	1.73319	1.83176	1.59251	1.65533	1.69345					
	1.65597						AVRG		1.75216		9.81075
92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
93 Benzidine	+++++	50054	95074	194169	482728	1160731					
	2468777						QUAD	0.000e+000	2.04434	-0.06983	0.99754
96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

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Last Edit : 30-Dec-2022 17:01 deenayd

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
97 Caffeine	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
98 Retene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
99 Perylene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
100 3-beta-Coprostanol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
101 Cholesterol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
102 beta-Sitosterol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
103 Pyridine	3.35054 / 2.21804	2.84937	3.26505	2.69575	2.65192	2.60034	AVRG		2.80443		14.06111	

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
188 2,6-Dichlorophenol	*****	*****	*****	*****	*****	*****						
	*****						AVRG		0.000e+000		0.000e+000	<-
189 N-Nitrosomethylethylamine	*****	*****	*****	*****	*****	*****						
	*****						AVRG		0.000e+000		0.000e+000	<-
$ 1 2-Fluorophenol	1.45602	1.19283	1.40828	1.19259	1.24246	1.25530						
	1.22294						AVRG		1.28149		8.30362	
$ 137 d8-1,4-Dioxane	*****	*****	*****	*****	*****	*****						
	*****						AVRG		0.000e+000		0.000e+000	<-
$ 2 Phenol-d5	1.69092	1.44217	1.68594	1.45879	1.57335	1.61147						
	1.62318						AVRG		1.58369		6.31534	
$ 5 2-Chlorophenol-d4	1.45976	1.22369	1.42935	1.22322	1.29609	1.33442						
	1.34383						AVRG		1.33005		6.91635	
$ 10 1,2-Dichlorobenzene-d4	1.07029	0.87758	0.98540	0.80523	0.84965	0.87971						
	0.89556						AVRG		0.90906		9.85632	

ARI Labs, Inc.

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Last Edit : 30-Dec-2022 17:01 deenayd

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
$ 18 Nitrobenzene-d5	0.36037	0.29932	0.34614	0.30694	0.33341	0.35263					
	0.36560						AVRG		0.33778		7.66710
$ 36 2-Fluorobiphenyl	1.59099	1.26085	1.46899	1.20015	1.24768	1.30306					
	1.34248						AVRG		1.34489		10.30227
$ 55 2,4,6-Tribromophenol	+++++	7439	19272	44278	110315	228033					
	504769						QUAD	0.000e+000	5.34233	-0.59550	0.99961
$ 66 Terphenyl-d14	1.11252	0.90736	1.06335	0.86077	0.91998	0.92552					
	0.93178						AVRG		0.96018		9.52115
$ 85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
$ 86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
$ 87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000

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

ARI Labs, Inc.

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20221230.b
Inst ID: nt14.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	NT1422123002	NT1422123003	NT1422123004	NT1422123005	NT1422123006	NT1422123007	NT1422123008
INJ.DATE:	30-DEC-2022	30-DEC-2022	30-DEC-2022	30-DEC-2022	30-DEC-2022	30-DEC-2022	30-DEC-2022
INJ.TIME:	08:06	08:42	09:18	09:54	10:30	11:07	11:43

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
$ 1 2-Fluorophenol	6.935	6.943	6.935	6.935	6.935	6.935	6.935	6.935	3.935-9.935	6.936	0.003
186 Carbaryl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.785	15.785-21.785	+++++	+++++
179 n-Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.645	5.645-11.645	+++++	+++++
180 n-Octadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.455	14.455-20.455	+++++	+++++
169 4-tert-Butylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.696	17.696-23.696	+++++	+++++
170 N,N-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.219	16.219-22.219	+++++	+++++
171 2,3-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.559	16.559-22.559	+++++	+++++
172 2,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.559	16.559-22.559	+++++	+++++
173 2,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.949	19.949-25.949	+++++	+++++
174 2,6-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.196	16.196-22.196	+++++	+++++
175 3,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.559	16.559-22.559	+++++	+++++
176 3,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.503	17.503-23.503	+++++	+++++
177 p-Benzoquinone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.827	4.827-10.827	+++++	+++++
168 Pentachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.842	12.842-18.842	+++++	+++++
145 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.212	44.212-50.212	+++++	+++++
146 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.746	44.746-50.746	+++++	+++++
147 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	48.216	45.216-51.216	+++++	+++++

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20221230.b
Inst ID: nt14.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
148 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.281	44.281-50.281	+++++	+++++
149 TCMX	+++++	+++++	+++++	+++++	+++++	+++++	+++++	43.387	40.387-46.387	+++++	+++++
150 DCBP	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.989	47.989-53.989	+++++	+++++
138 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	67.733	64.733-70.733	+++++	+++++
139 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.067	62.067-68.067	+++++	+++++
140 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.487	62.487-68.487	+++++	+++++
141 Diallate B	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.487	62.487-68.487	+++++	+++++
142 1,2-Dibromo-3-Chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	49.917	46.917-52.917	+++++	+++++
135 2,3,5,6-Tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.383	13.383-19.383	+++++	+++++
136 2,3,4,5-tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.317	36.317-42.317	+++++	+++++
$ 137 d8-1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.445	0.000-5.445	+++++	+++++
* 134 Di-n-octylphthalate-d4	24.437	24.445	24.437	24.437	24.437	24.437	24.437	24.437	21.437-27.437	24.438	0.003
133 Butylatedhydroxytoluen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.571	12.571-18.571	+++++	+++++
132 3,6-Dimethylphenanthre	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.450	62.450-68.450	+++++	+++++
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	64.400	61.400-67.400	+++++	+++++
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	62.100	59.100-65.100	+++++	+++++
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.912	51.912-57.912	+++++	+++++
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.212	51.212-57.212	+++++	+++++
127 2-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	57.650	54.650-60.650	+++++	+++++
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	56.750	53.750-59.750	+++++	+++++
144 alpha-Terpineol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.447	8.447-14.447	+++++	+++++
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	52.166	49.166-55.166	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20221230.b
Inst ID: nt14.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.617	47.617-53.617	+++++	+++++
123 Acetophenone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.252	7.252-13.252	+++++	+++++
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	43.467	40.467-46.467	+++++	+++++
143 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.697	0.000-5.697	+++++	+++++
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.500	51.500-57.500	+++++	+++++
120 2,3,4,6-Tetrachlorophe	16.052	16.060	16.052	16.052	16.052	16.052	16.052	16.052	13.052-19.052	16.053	0.003
178 2-Benzyl-4-Chloropheno	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.963	15.963-21.963	+++++	+++++
119 7,12-Dimethylbenz(a)an	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.069	44.069-50.069	+++++	+++++
118 Triphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.215	18.215-24.215	+++++	+++++
117 Butyl Diphenyl Phospha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.761	13.761-19.761	+++++	+++++
116 Dibutyl Phenyl Phospha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.747	15.747-21.747	+++++	+++++
115 Tributyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.923	13.923-19.923	+++++	+++++
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	48.950	45.950-51.950	+++++	+++++
113 Diphenyl Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.341	11.341-17.341	+++++	+++++
112 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.085	11.085-17.085	+++++	+++++
111 Azobenzene (1,2-DP-Hyd	16.747	16.763	16.747	16.755	16.747	16.747	16.747	16.747	13.747-19.747	16.751	0.006
110 Tetrachloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.140	14.140-20.140	+++++	+++++
109 3,4,5-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.070	12.070-18.070	+++++	+++++
181 3,4,6-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.232	12.232-18.232	+++++	+++++
108 4,5,6-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.374	13.374-19.374	+++++	+++++
184 3,4-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.120	10.120-16.120	+++++	+++++
107 4,5-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.096	11.096-17.096	+++++	+++++
182 4,6-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.096	11.096-17.096	+++++	+++++
185 4-Chloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.735	8.735-14.735	+++++	+++++

ARI Labs, Inc.
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Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
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Inst ID: nt14.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	106 Guaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.243	6.243-12.243	+++++	+++++
	105 1-methylnaphthalene	13.360	13.368	13.360	13.360	13.360	13.360	13.360	13.360	10.360-16.360	13.361	0.003
	151 1,2,4,5-Tetrachloroben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.499	8.499-14.499	+++++	+++++
	152 Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	30.943	27.943-33.943	+++++	+++++
	153 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.642	24.642-30.642	+++++	+++++
	154 Diazinon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.953	22.953-28.953	+++++	+++++
	155 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.750	24.750-30.750	+++++	+++++
	156 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.464	23.464-29.464	+++++	+++++
	157 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.099	24.099-30.099	+++++	+++++
	158 Ethion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.513	21.513-27.513	+++++	+++++
	159 4-Nonylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.132	22.132-28.132	+++++	+++++
	160 Tetraethyl Tin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.528	16.528-22.528	+++++	+++++
	161 1,2,3-Trichloronaphtha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	36.246	33.246-39.246	+++++	+++++
	162 1,2,3,4-Tetrachloronap	+++++	+++++	+++++	+++++	+++++	+++++	+++++	37.506	34.506-40.506	+++++	+++++
	163 1,2,3,5,8-Pentachloron	+++++	+++++	+++++	+++++	+++++	+++++	+++++	38.893	35.893-41.893	+++++	+++++
	164 1,2,3,4,6,7-Hexachloro	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.681	36.681-42.681	+++++	+++++
	165 1,2,3,4,5,6,7-Heptachl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	41.123	38.123-44.123	+++++	+++++
	166 Octachloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	42.253	39.253-45.253	+++++	+++++
	167 2,2',4,4',5-Pentabromo	+++++	+++++	+++++	+++++	+++++	+++++	+++++	42.033	39.033-45.033	+++++	+++++
$	2 Phenol-d5	8.527	8.542	8.519	8.535	8.519	8.527	8.519	8.527	5.527-11.527	8.527	0.009
	3 Phenol	8.550	8.565	8.542	8.550	8.542	8.542	8.542	8.550	5.550-11.550	8.548	0.008
	4 Bis(2-Chloroethyl)ethe	8.720	8.728	8.720	8.720	8.720	8.720	8.720	8.720	5.720-11.720	8.721	0.003
$	5 2-Chlorophenol-d4	8.820	8.828	8.813	8.820	8.813	8.813	8.813	8.820	5.820-11.820	8.817	0.006

ARI Labs, Inc.
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Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
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Inst ID: nt14.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	6 2-Chlorophenol	8.843	8.851	8.844	8.844	8.844	8.844	8.844	8.843	5.843-11.843	8.845	0.003
	7 1,3-Dichlorobenzene	9.122	9.122	9.122	9.122	9.114	9.122	9.122	9.122	6.122-12.122	9.121	0.003
*	8 1,4-Dichlorobenzene-d4	9.184	9.184	9.184	9.184	9.184	9.184	9.184	9.184	6.184-12.184	9.184	0.000
	9 1,4-Dichlorobenzene	9.215	9.223	9.215	9.215	9.215	9.215	9.215	9.215	6.215-12.215	9.216	0.003
$	10 1,2-Dichlorobenzene-d4	9.548	9.556	9.549	9.549	9.549	9.549	9.549	9.548	6.548-12.548	9.550	0.003
	11 Benzyl alcohol	9.448	9.463	9.448	9.456	9.448	9.448	9.448	9.448	6.448-12.448	9.451	0.006
	12 1,2-Dichlorobenzene	9.572	9.580	9.572	9.572	9.572	9.572	9.572	9.572	6.572-12.572	9.573	0.003
	13 2-Methylphenol	9.673	9.681	9.673	9.673	9.673	9.673	9.673	9.673	6.673-12.673	9.674	0.003
	14 2,2'-oxybis(1-Chloropr	9.758	9.758	9.759	9.759	9.759	9.759	9.759	9.758	6.758-12.758	9.758	0.000
	15 4-Methylphenol	9.944	9.960	9.937	9.945	9.937	9.945	9.937	9.944	6.944-12.944	9.944	0.008
	16 N-Nitroso-di-n-propyla	10.014	10.038	10.015	10.022	10.015	10.015	10.015	10.014	7.014-13.014	10.019	0.009
	17 Hexachloroethane	10.177	10.177	10.178	10.178	10.178	10.178	10.178	10.177	7.177-13.177	10.178	0.000
$	18 Nitrobenzene-d5	10.286	10.294	10.279	10.286	10.279	10.279	10.279	10.286	7.286-13.286	10.283	0.006
	19 Nitrobenzene	10.317	10.325	10.317	10.317	10.317	10.317	10.317	10.317	7.317-13.317	10.318	0.003
	20 Isophorone	10.775	10.798	10.767	10.775	10.767	10.767	10.767	10.775	7.775-13.775	10.774	0.011
	21 2-Nitrophenol	10.953	10.961	10.954	10.954	10.954	10.954	10.954	10.953	7.953-13.953	10.955	0.003
	22 2,4-Dimethylphenol	11.000	11.015	11.000	11.008	11.000	11.000	11.000	11.000	8.000-14.000	11.003	0.006
	23 Bis(2-Chloroethoxy)met	11.201	11.209	11.202	11.202	11.194	11.202	11.202	11.201	8.201-14.201	11.202	0.004
	24 Benzoic acid	11.201	11.357	11.101	11.271	11.109	11.155	11.116	11.201	8.201-14.201	11.187	0.096
	25 2,4-Dichlorophenol	11.411	11.419	11.403	11.411	11.403	11.403	11.403	11.411	8.411-14.411	11.408	0.006
	26 1,2,4-Trichlorobenzene	11.604	11.612	11.604	11.604	11.597	11.597	11.604	11.604	8.604-14.604	11.603	0.005
*	27 Naphthalene-d8	11.689	11.697	11.689	11.689	11.689	11.689	11.689	11.689	8.689-14.689	11.690	0.003
	28 Naphthalene	11.735	11.735	11.728	11.736	11.728	11.728	11.728	11.735	8.735-14.735	11.731	0.004
	29 4-Chloroaniline	11.859	11.867	11.852	11.859	11.851	11.852	11.851	11.859	8.859-14.859	11.856	0.006

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Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
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Inst ID: nt14.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	30 Hexachlorobutadiene	12.098	12.099	12.099	12.099	12.099	12.099	12.099	12.098	9.098-15.098	12.099	0.000
	31 4-Chloro-3-methylpheno	12.818	12.826	12.811	12.818	12.811	12.811	12.811	12.818	9.818-15.818	12.815	0.006
	32 2-Methylnaphthalene	13.135	13.143	13.136	13.136	13.136	13.136	13.136	13.135	10.135-16.135	13.137	0.003
	33 Hexachlorocyclopentadi	13.607	13.615	13.608	13.608	13.608	13.608	13.608	13.607	10.607-16.607	13.609	0.003
	34 2,4,6-Trichlorophenol	13.754	13.762	13.755	13.755	13.755	13.755	13.755	13.754	10.754-16.754	13.756	0.003
	35 2,4,5-Trichlorophenol	13.824	13.840	13.825	13.832	13.825	13.825	13.825	13.824	10.824-16.824	13.828	0.006
$	36 2-Fluorobiphenyl	13.917	13.925	13.917	13.917	13.917	13.917	13.917	13.917	10.917-16.917	13.918	0.003
	37 2-Chloronaphthalene	14.134	14.142	14.134	14.134	14.134	14.134	14.134	14.134	11.134-17.134	14.135	0.003
	38 2-Nitroaniline	14.389	14.405	14.382	14.389	14.382	14.382	14.382	14.389	11.389-17.389	14.387	0.009
	39 Dimethylphthalate	14.822	14.838	14.815	14.823	14.815	14.815	14.815	14.822	11.822-17.822	14.821	0.009
	40 Acenaphthylene	15.008	15.016	15.009	15.009	15.009	15.009	15.009	15.008	12.008-18.008	15.010	0.003
	41 2,6-Dinitrotoluene	14.954	14.970	14.955	14.962	14.955	14.955	14.955	14.954	11.954-17.954	14.958	0.006
*	42 Acenaphthene-d10	15.325	15.333	15.326	15.326	15.326	15.326	15.326	15.325	12.325-18.325	15.327	0.003
	43 3-Nitroaniline	15.240	15.264	15.233	15.248	15.233	15.233	15.233	15.240	12.240-18.240	15.241	0.012
	44 Acenaphthene	15.395	15.403	15.388	15.395	15.388	15.388	15.388	15.395	12.395-18.395	15.392	0.006
	45 2,4-Dinitrophenol	15.457	15.480	15.442	15.465	15.442	15.450	15.442	15.457	12.457-18.457	15.454	0.015
	46 Dibenzofuran	15.720	15.735	15.712	15.720	15.712	15.720	15.712	15.720	12.720-18.720	15.719	0.008
	47 4-Nitrophenol	15.550	15.573	15.542	15.558	15.542	15.542	15.542	15.550	12.550-18.550	15.550	0.012
	48 2,4-Dinitrotoluene	15.766	15.789	15.759	15.774	15.759	15.759	15.759	15.766	12.766-18.766	15.766	0.012
	49 Fluorene	16.438	16.446	16.431	16.439	16.431	16.431	16.431	16.438	13.438-19.438	16.435	0.006
	50 Diethylphthalate	16.284	16.307	16.277	16.292	16.277	16.277	16.277	16.284	13.284-19.284	16.284	0.012
	51 4-Chlorophenyl-phenyle	16.423	16.431	16.423	16.423	16.423	16.423	16.423	16.423	13.423-19.423	16.424	0.003
	52 4-Nitroaniline	16.516	16.554	16.501	16.524	16.501	16.501	16.501	16.516	13.516-19.516	16.514	0.020
	53 4,6-Dinitro-2-methylph	16.616	16.639	16.601	16.624	16.601	16.609	16.601	16.616	13.616-19.616	16.613	0.015

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Inst ID: nt14.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	54 N-Nitrosodiphenylamine	16.670	16.685	16.663	16.670	16.670	16.670	16.663	16.670	13.670-19.670	16.670	0.008
$	55 2,4,6-Tribromophenol	16.971	16.978	16.971	16.971	16.963	16.963	16.963	16.971	13.971-19.971	16.969	0.006
	56 4-Bromophenyl-phenylet	17.433	17.433	17.426	17.434	17.426	17.426	17.426	17.433	14.433-20.433	17.429	0.004
	57 Hexachlorobenzene	17.750	17.758	17.750	17.750	17.750	17.750	17.750	17.750	14.750-20.750	17.751	0.003
	58 Pentachlorophenol	18.106	18.114	18.107	18.106	18.107	18.099	18.107	18.106	15.106-21.106	18.106	0.004
*	59 Phenanthrene-d10	18.377	18.377	18.370	18.377	18.370	18.370	18.370	18.377	15.377-21.377	18.373	0.004
	60 Phenanthrene	18.423	18.431	18.416	18.424	18.416	18.416	18.416	18.423	15.423-21.423	18.420	0.006
	61 Anthracene	18.516	18.524	18.509	18.517	18.509	18.509	18.509	18.516	15.516-21.516	18.513	0.006
	62 Carbazole	18.841	18.849	18.834	18.841	18.834	18.834	18.834	18.841	15.841-21.841	18.838	0.006
	63 Di-n-butylphthalate	19.630	19.630	19.631	19.631	19.631	19.631	19.631	19.630	16.630-22.630	19.631	0.000
	64 Fluoranthene	20.806	20.806	20.799	20.807	20.799	20.799	20.799	20.806	17.806-23.806	20.802	0.004
	65 Pyrene	21.232	21.232	21.225	21.224	21.224	21.225	21.225	21.232	18.232-24.232	21.227	0.004
$	66 Terphenyl-d14	21.510	21.511	21.503	21.503	21.503	21.503	21.503	21.510	18.510-24.510	21.505	0.004
	67 Butylbenzylphthalate	22.424	22.424	22.424	22.424	22.424	22.424	22.424	22.424	19.424-25.424	22.424	0.000
	68 Benzo(a)anthracene	23.384	23.392	23.385	23.385	23.377	23.385	23.385	23.384	20.384-26.384	23.384	0.004
*	69 Chrysene-d12	23.415	23.423	23.408	23.415	23.408	23.408	23.408	23.415	20.415-26.415	23.412	0.006
	70 3,3'-Dichlorobenzidine	23.330	23.346	23.330	23.338	23.330	23.330	23.330	23.330	20.330-26.330	23.334	0.006
	71 Chrysene	23.462	23.470	23.454	23.462	23.454	23.454	23.454	23.462	20.462-26.462	23.459	0.006
	72 bis(2-Ethylhexyl)phtha	23.446	23.446	23.447	23.446	23.439	23.447	23.447	23.446	20.446-26.446	23.445	0.003
	73 Di-n-octylphthalate	24.452	24.453	24.445	24.453	24.445	24.445	24.445	24.452	21.452-27.452	24.448	0.004
	74 Benzo(b)fluoranthene	25.312	25.320	25.297	25.312	25.297	25.305	25.305	25.312	22.312-28.312	25.307	0.009
	75 Benzo(k)fluoranthene	25.358	25.366	25.343	25.359	25.343	25.351	25.343	25.358	22.358-28.358	25.352	0.009
	187 Total Benzofluoranthen	25.358	25.366	25.297	25.359	25.343	25.351	25.305	25.358	22.358-28.358	25.340	0.028
	76 Benzo(a)pyrene	25.985	26.001	25.978	25.986	25.978	25.978	25.978	25.985	22.985-28.985	25.984	0.009

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Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
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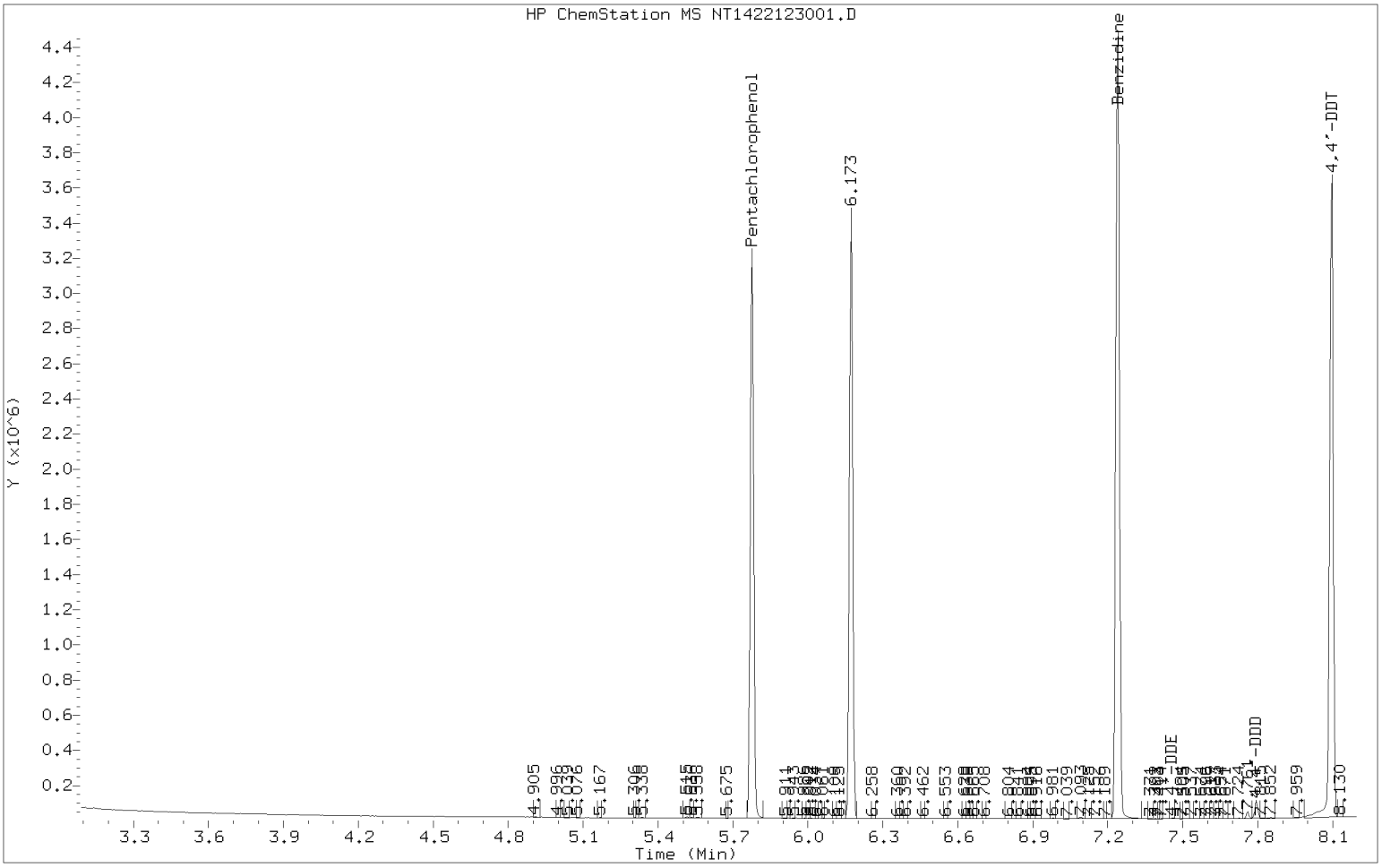
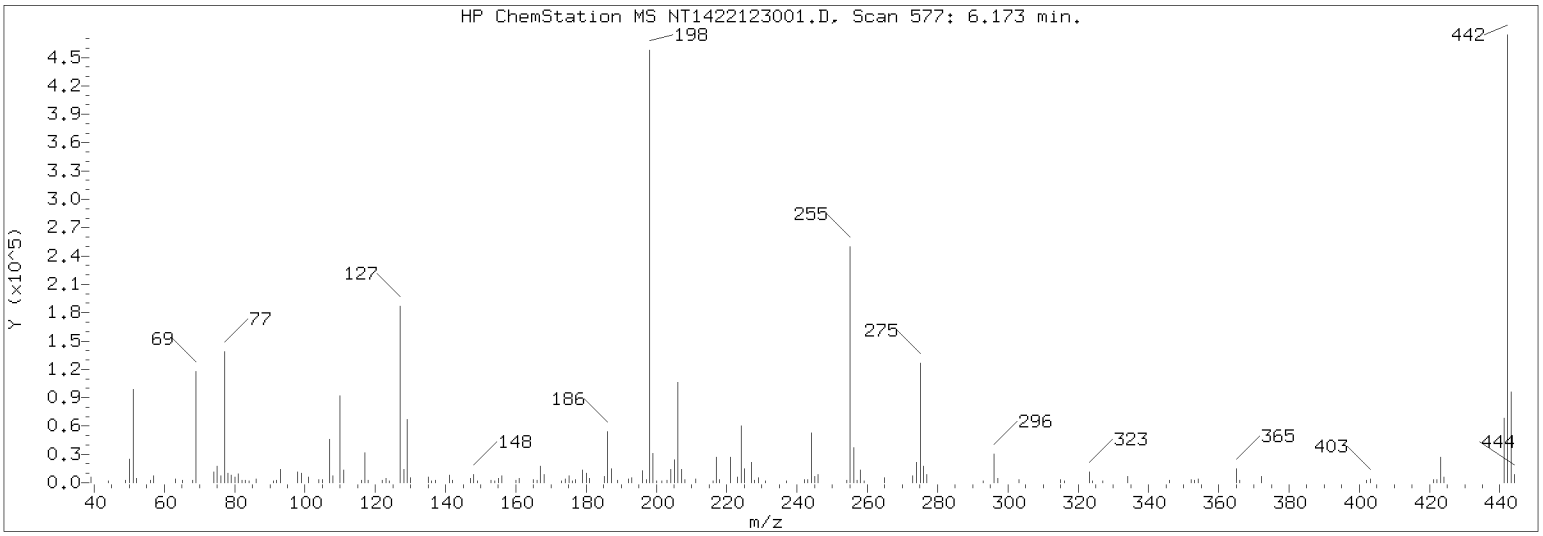
Inst ID: nt14.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
*	77 Perylene-d12	26.102	26.110	26.102	26.102	26.102	26.102	26.102	26.102	23.102-29.102	26.103	0.003
	78 Indeno(1,2,3-cd)pyrene	28.869	28.893	28.854	28.870	28.854	28.854	28.854	28.869	25.869-31.869	28.864	0.015
	79 Dibenzo(a,h)anthracene	28.877	28.908	28.862	28.885	28.862	28.862	28.862	28.877	25.877-31.877	28.874	0.018
	80 Benzo(g,h,i)perylene	29.685	29.716	29.662	29.693	29.662	29.670	29.662	29.685	26.685-32.685	29.678	0.021
$	85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	51.633	48.633-54.633	+++++	+++++
$	86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	63.533	60.533-66.533	+++++	+++++
$	87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	60.273	57.273-63.273	+++++	+++++
$	88 Dibenz(a,h)anthracene-	+++++	+++++	+++++	+++++	+++++	+++++	+++++	78.600	75.600-81.600	+++++	+++++
$	89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.841	47.841-53.841	+++++	+++++
	90 N-Nitrosodimethylamine	4.749	4.765	4.750	4.757	4.750	4.750	4.750	4.749	1.749-7.749	4.753	0.006
	91 Aniline	8.635	8.643	8.627	8.635	8.627	8.627	8.627	8.635	5.635-11.635	8.632	0.006
	92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	56.160	53.160-59.160	+++++	+++++
	93 Benzidine	21.031	21.031	21.023	21.023	21.023	21.023	21.023	21.031	18.031-24.031	21.025	0.004
$	95 D10-1-methylnaphthalen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	52.075	49.075-55.075	+++++	+++++
	96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	49.250	46.250-52.250	+++++	+++++
	97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	61.202	58.202-64.202	+++++	+++++
	98 Retene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.787	15.787-21.787	+++++	+++++
	99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.361	21.361-27.361	+++++	+++++
	100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.411	22.411-28.411	+++++	+++++
	101 Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.023	23.023-29.023	+++++	+++++
	102 beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	79.550	76.550-82.550	+++++	+++++
	103 Pyridine	4.780	4.780	4.819	4.781	4.804	4.788	4.796	4.780	1.780-7.780	4.793	0.015
	188 2,6-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.874	8.874-14.874	+++++	+++++
	189 N-Nitrosomethylethylam	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.818	2.818-8.818	+++++	+++++

DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20221230.b/NT1422123001.D/NT1422123001.D
Method Used: \20221230.b\DFTPP8270E.m Inst: nt14
Injection Date: 30-DEC-2022 07:53 Operator: VTS
Sample Info: SKL0355-TUN1 SKL0355-TUN1
Report Date: 12/31/2022 15:11





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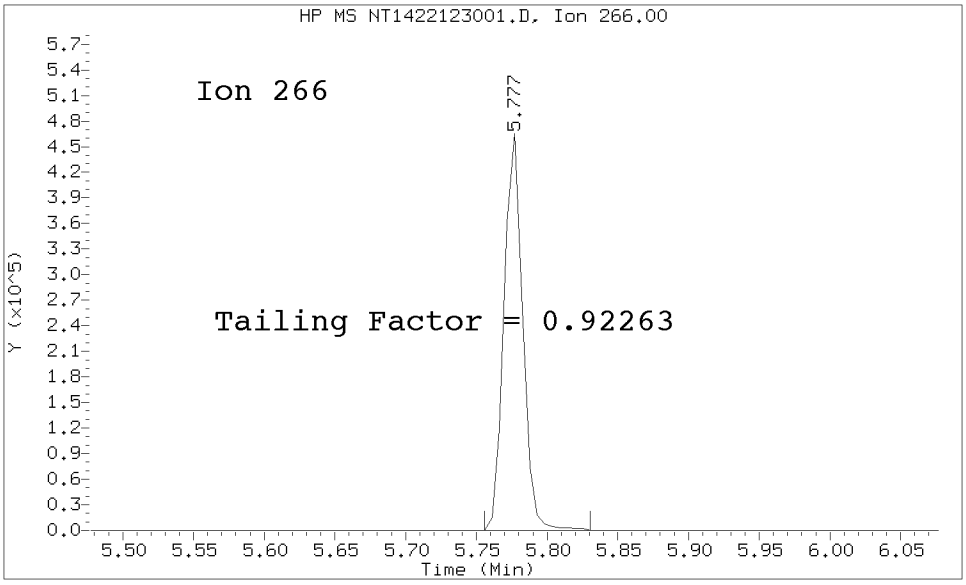
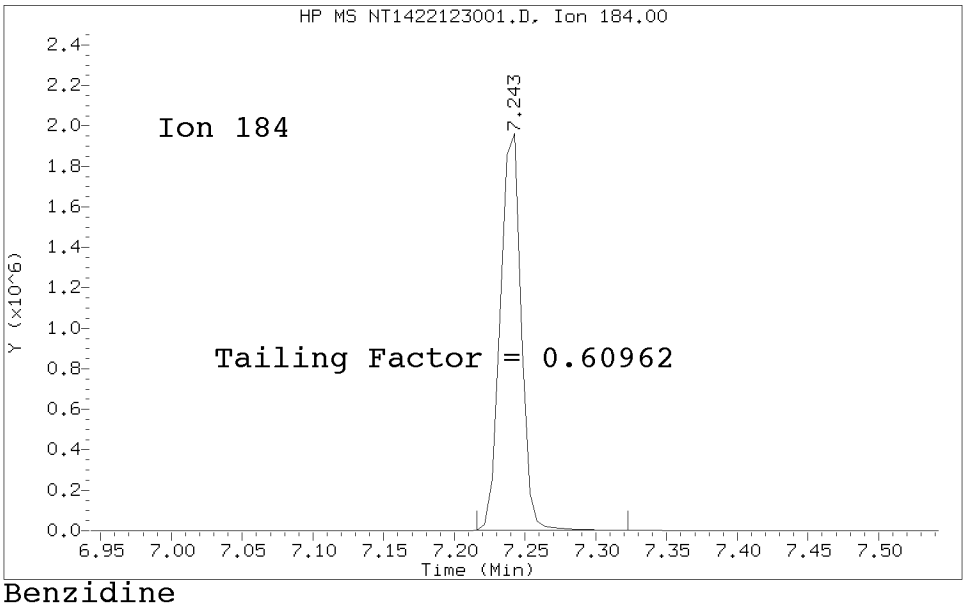
Method Used: \20221230.b\DFTPP8270E.m\sw846ddt.m Inst: nt14
Injection Date: 30-DEC-2022 07:53 Operator: JZ
Sample Info: SKL0355-TUN1
Report Date: 12/31/2022 15:11



Pentachlorophenol
==========
Exp. RT = 5.777
Found RT = 5.777

Tail Factor = 0.923 Maximum Allowed = 2.0



Benzidine
==========
Exp. RT = 7.243
Found RT = 7.243

Tail Factor = 0.610 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.9226328	2.000	PASS
Benzidine	0.6096154	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	728571			N/A
4,4-DDE	1748	0.2	20.0	PASS
4,4-DDD	25116	3.3	20.0	PASS
4,4-DDD + DDE	26864	3.6	20.0	PASS

Tuning Sample, nt14.i/20221230.b/NT1422123001.D, *** PASSED ***

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
68	Less than 2.00% of mass 69	0.42 (1.54)
69	Mass 69 relative abundance	27.33
70	Less than 2.00% of mass 69	0.00 (0.00)
197	Less than 2.00% of mass 198	0.70
199	5.00 - 9.00% of mass 198	6.88
365	1.00 - 100.00% of mass 198	3.30
441	Less than 150.00% of mass 443	14.74 (72.29)
442	Less than 200.00% of mass 198	103.05
443	15.00 - 24.00% of mass 442	20.40 (19.79)

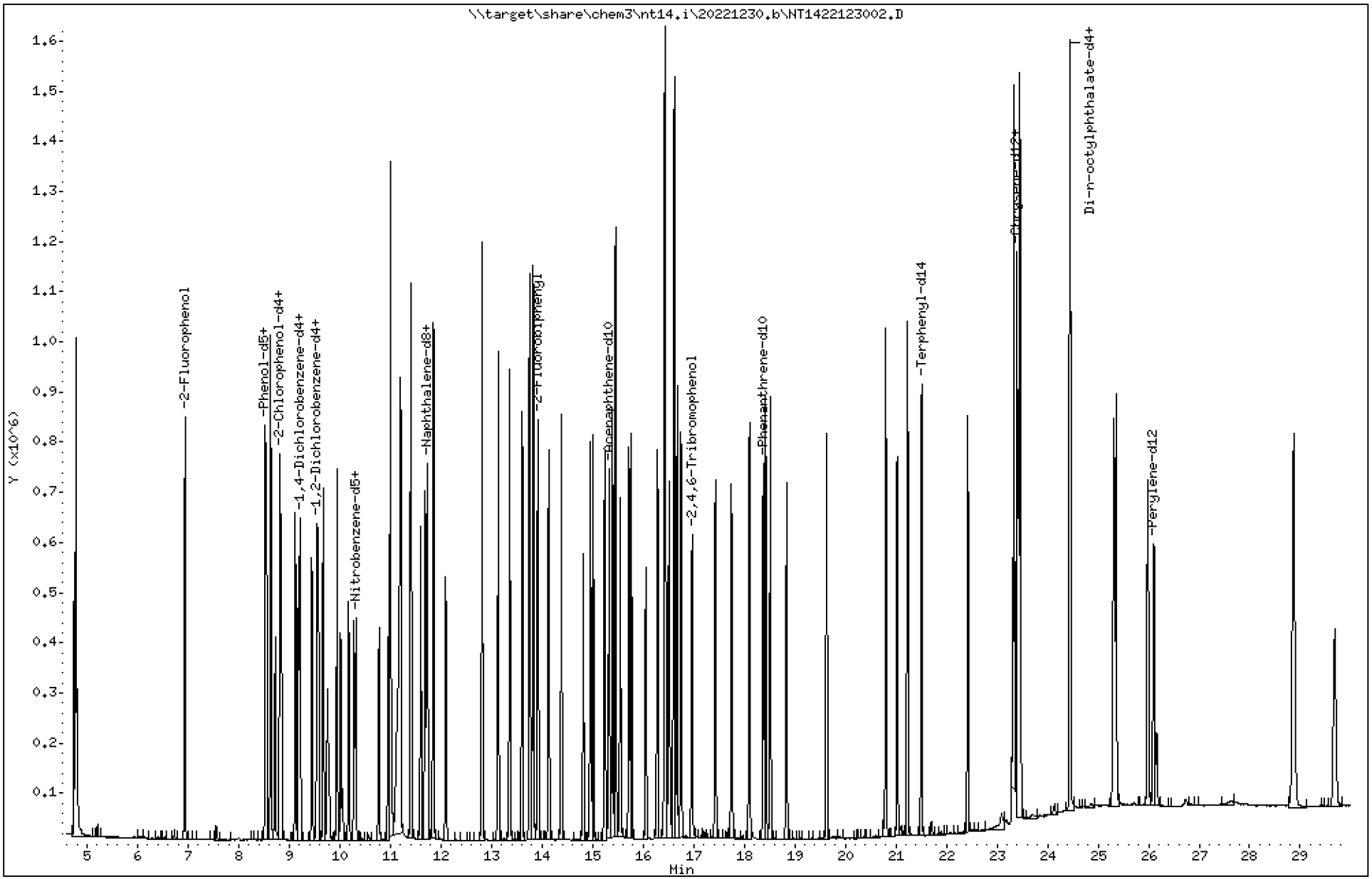
Data File: NT1422123001.D
Spectrum: Avg. Scans 576-578 (6.17), Background Scan 570
Location of Maximum: 442.00
Number of points: 144

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	5632	123.00	3801	193.00	4295	265.00	4182
50.00	21040	124.00	718	196.00	10174	273.00	6187
51.00	85256	127.00	152832	197.00	2556	274.00	16840
52.00	4405	128.00	11309	198.00	363008	275.00	97584
56.00	1965	129.00	55704	199.00	24968	276.00	13253
57.00	6391	130.00	4710	200.00	757	277.00	7167
63.00	3577	135.00	4859	201.00	781	293.00	783
65.00	1506	136.00	670	203.00	839	296.00	24208
68.00	1530	137.00	2423	204.00	11125	297.00	3535
69.00	99200	141.00	6775	205.00	19328	303.00	2963
74.00	9619	142.00	1723	206.00	83840	315.00	2888
75.00	15248	147.00	3621	207.00	11411	316.00	707
76.00	6040	148.00	7518	208.00	2567	323.00	8891
77.00	117336	149.00	668	211.00	3164	324.00	672
78.00	8472	153.00	914	216.00	783	327.00	775
79.00	6850	154.00	788	217.00	21288	334.00	5558
80.00	5401	155.00	4007	218.00	2851	346.00	1586
81.00	7971	156.00	6175	221.00	21128	352.00	2198
82.00	1516	160.00	1664	223.00	4917	353.00	813
83.00	1540	161.00	3469	224.00	47576	354.00	2334
86.00	3530	165.00	2796	225.00	11863	365.00	11977
91.00	1423	166.00	1689	227.00	17616	366.00	809
92.00	1511	167.00	14270	228.00	2547	372.00	5151
93.00	12327	168.00	7598	229.00	4129	402.00	1699
98.00	9312	173.00	740	231.00	741	403.00	2468
99.00	8157	174.00	3118	237.00	720	421.00	2199
101.00	4874	175.00	5843	242.00	2646	422.00	2004
104.00	2893	176.00	710	243.00	2898	423.00	20352
105.00	2773	177.00	2663	244.00	41256	424.00	4730
107.00	38432	179.00	11112	245.00	5346	441.00	53520
108.00	6152	180.00	8200	246.00	6651	442.00	374080
110.00	75432	181.00	3730	254.00	833	443.00	74040
111.00	11047	185.00	5465	255.00	195520	444.00	7022
116.00	1701	186.00	43392	256.00	29104		
117.00	26736	187.00	12254	257.00	2342		
118.00	1522	189.00	1759	258.00	10581		
122.00	2480	192.00	3535	259.00	690		

Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123002.D
Date : 30-DEC-2022 08:06
Client ID:
Sample Info: SKL0355-CAL5

Instrument: nt14.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230.b\NT1422123002.D
Lab Smp Id: SKL0355-CAL5
Inj Date : 30-DEC-2022 08:06 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-CAL5
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Meth Date : 04-Jan-2023 08:09 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.934	6.934	(0.755)	351803	7.50000	7.272
$	2 Phenol-d5	99	8.526	8.526	(0.928)	445493	7.50000	7.451
	3 Phenol	94	8.549	8.549	(0.931)	320287	5.00000	4.714
$	5 2-Chlorophenol-d4	132	8.820	8.820	(0.960)	366986	7.50000	7.308
	4 Bis(2-Chloroethyl)ether	93	8.719	8.719	(0.949)	213068	5.00000	4.553
	6 2-Chlorophenol	128	8.843	8.843	(0.963)	260619	5.00000	4.726
	7 1,3-Dichlorobenzene	146	9.121	9.121	(0.993)	267651	5.00000	4.577
*	8 1,4-Dichlorobenzene-d4	152	9.183	9.183	(1.000)	151013	4.00000	
	9 1,4-Dichlorobenzene	146	9.214	9.214	(1.003)	253252	5.00000	4.571
$	10 1,2-Dichlorobenzene-d4	152	9.548	9.548	(1.040)	160386	5.00000	4.673
	12 1,2-Dichlorobenzene	146	9.571	9.571	(1.042)	250859	5.00000	4.617
	11 Benzyl alcohol	108	9.447	9.447	(1.029)	153862	5.00000	5.087
	14 2,2'-oxybis(1-Chloropropane)	121	9.758	9.758	(1.063)	74627	5.00000	4.738(M)
	13 2-Methylphenol	108	9.672	9.672	(1.053)	237608	5.00000	4.813
	17 Hexachloroethane	117	10.177	10.177	(1.108)	95799	5.00000	4.702
	16 N-Nitroso-di-n-propylamine	70	10.014	10.014	(1.090)	147756	5.00000	4.913
	15 4-Methylphenol	108	9.944	9.944	(1.083)	255052	5.00000	4.898
$	18 Nitrobenzene-d5	82	10.285	10.285	(0.880)	230684	5.00000	4.935
	19 Nitrobenzene	77	10.316	10.316	(0.883)	221275	5.00000	4.767
	20 Isophorone	82	10.774	10.774	(0.922)	300513	5.00000	5.079
	21 2-Nitrophenol	139	10.953	10.953	(0.937)	151231	5.00000	5.100
	22 2,4-Dimethylphenol	107	10.999	10.999	(0.941)	456971	10.0000	9.432
	23 Bis(2-Chloroethoxy)methane	93	11.201	11.201	(0.958)	211797	5.00000	4.602
	24 Benzoic acid	105	11.201	11.201	(0.958)	622705	20.0000	20.16
	25 2,4-Dichlorophenol	162	11.410	11.410	(0.976)	392225	10.0000	9.604
	26 1,2,4-Trichlorobenzene	180	11.604	11.604	(0.993)	199770	5.00000	4.524
*	27 Naphthalene-d8	136	11.688	11.688	(1.000)	553510	4.00000	
	28 Naphthalene	128	11.735	11.735	(1.004)	628260	5.00000	4.612
	29 4-Chloroaniline	127	11.858	11.858	(1.015)	552775	10.0000	9.840
	30 Hexachlorobutadiene	225	12.098	12.098	(1.035)	102421	5.00000	4.675
	31 4-Chloro-3-methylphenol	107	12.818	12.818	(1.097)	393115	10.0000	10.20
	32 2-Methylnaphthalene	142	13.135	13.135	(1.124)	472882	5.00000	4.733
	33 Hexachlorocyclopentadiene	237	13.607	13.607	(0.888)	230983	10.0000	10.01

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.754	13.754	(0.897)	264056	10.0000	10.36
	35 2,4,5-Trichlorophenol	196	13.824	13.824	(0.902)	302784	10.0000	10.29
$	36 2-Fluorobiphenyl	172	13.916	13.916	(0.908)	476320	5.00000	4.639
	37 2-Chloronaphthalene	162	14.133	14.133	(0.922)	400051	5.00000	4.580
	38 2-Nitroaniline	65	14.389	14.389	(0.939)	234280	10.0000	10.20
	39 Dimethylphthalate	163	14.822	14.822	(0.967)	408025	5.00000	4.737
	40 Acenaphthylene	152	15.008	15.008	(0.979)	624847	5.00000	4.691
	41 2,6-Dinitrotoluene	165	14.954	14.954	(0.976)	194171	10.0000	9.989
*	42 Acenaphthene-d10	164	15.325	15.325	(1.000)	305411	4.00000	
	43 3-Nitroaniline	138	15.240	15.240	(0.994)	235735	10.0000	9.978
	44 Acenaphthene	153	15.394	15.394	(1.005)	375245	5.00000	4.542
	45 2,4-Dinitrophenol	184	15.456	15.456	(1.009)	324987	20.0000	18.84
	46 Dibenzofuran	168	15.719	15.719	(1.026)	570695	5.00000	4.606
	47 4-Nitrophenol	109	15.549	15.549	(1.015)	115297	10.0000	9.968
	48 2,4-Dinitrotoluene	165	15.765	15.765	(1.029)	268356	10.0000	10.06
	50 Diethylphthalate	149	16.283	16.283	(1.063)	583945	5.00000	4.988
	49 Fluorene	166	16.438	16.438	(1.073)	583736	5.00000	4.429
	51 4-Chlorophenyl-phenylether	204	16.423	16.423	(1.072)	306309	5.00000	4.747
	52 4-Nitroaniline	138	16.515	16.515	(1.078)	284222	10.0000	9.771
	53 4,6-Dinitro-2-methylphenol	198	16.615	16.615	(0.904)	421202	20.0000	19.53
	54 N-Nitrosodiphenylamine	169	16.669	16.669	(0.907)	382858	5.00000	4.538
$	55 2,4,6-Tribromophenol	330	16.970	16.970	(1.107)	110315	7.50000	7.408
	56 4-Bromophenyl-phenylether	248	17.433	17.433	(0.949)	148860	5.00000	4.659
	57 Hexachlorobenzene	284	17.749	17.749	(0.966)	158613	5.00000	4.524
	58 Pentachlorophenol	266	18.106	18.106	(0.985)	157801	10.0000	9.877
*	59 Phenanthrene-d10	188	18.376	18.376	(1.000)	491708	4.00000	
	60 Phenanthrene	178	18.423	18.423	(1.003)	581412	5.00000	4.535
	61 Anthracene	178	18.516	18.516	(1.008)	593247	5.00000	4.847
	62 Carbazole	167	18.841	18.841	(1.025)	541939	5.00000	4.580
	63 Di-n-butylphthalate	149	19.630	19.630	(1.068)	680520	5.00000	4.895
	64 Fluoranthene	202	20.806	20.806	(0.889)	665741	5.00000	4.868
	65 Pyrene	202	21.231	21.231	(0.907)	689116	5.00000	4.792
$	66 Terphenyl-d14	244	21.510	21.510	(0.919)	488441	5.00000	4.791
	67 Butylbenzylphthalate	149	22.423	22.423	(0.958)	283059	5.00000	5.125
	68 Benzo(a)anthracene	228	23.384	23.384	(0.999)	617509	5.00000	4.799
*	69 Chrysene-d12	240	23.415	23.415	(1.000)	424740	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.329	23.329	(0.996)	489648	15.0000	12.43
	71 Chrysene	228	23.461	23.461	(1.002)	568172	5.00000	4.675
	72 bis(2-Ethylhexyl)phthalate	149	23.446	23.446	(0.959)	393425	5.00000	5.172
*	134 Di-n-octylphthalate-d4	153	24.437	24.437	(1.000)	684951	4.00000	
	73 Di-n-octylphthalate	149	24.452	24.452	(1.001)	732863	5.00000	4.457
	74 Benzo(b)fluoranthene	252	25.311	25.311	(0.970)	620349	5.00000	4.995
	75 Benzo(k)fluoranthene	252	25.358	25.358	(0.972)	589803	5.00000	4.666
	76 Benzo(a)pyrene	252	25.985	25.985	(0.996)	510208	5.00000	4.942
*	77 Perylene-d12	264	26.101	26.101	(1.000)	395150	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	28.869	28.869	(1.106)	570329	5.00000	4.860
	79 Dibenzo(a,h)anthracene	278	28.876	28.876	(1.106)	475587	5.00000	4.769
	80 Benzo(g,h,i)perylene	276	29.684	29.684	(1.137)	463834	5.00000	4.718(M)
	90 N-Nitrosodimethylamine	74	4.749	4.749	(0.517)	321667	10.0000	9.654
	91 Aniline	93	8.634	8.634	(0.940)	624940	10.0000	9.447
	93 Benzidine	184	21.030	21.030	(0.898)	482728	10.0000	8.933
	103 Pyridine	79	4.780	4.780	(0.521)	500593	5.00000	4.728
	105 1-methylnaphthalene	142	13.359	13.359	(1.143)	457429	5.00000	4.765
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.746	16.746	(1.093)	538050	5.00000	4.744

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.358	25.358	(0.972)	1153692	10.0000	9.609
120 2,3,4,6-Tetrachlorophenol	232	16.051	16.051	(1.047)	110018	5.00000	4.910

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123002.D
Lab Smp Id: SKL0355-CAL5
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Misc Info:

Calibration Date: 30-DEC-2022
Calibration Time: 08:06
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	151013	75507	302026	151013	0.00
27 Naphthalene-d8	553510	276755	1107020	553510	0.00
42 Acenaphthene-d10	305411	152706	610822	305411	0.00
59 Phenanthrene-d10	491708	245854	983416	491708	0.00
69 Chrysene-d12	424740	212370	849480	424740	0.00
134 Di-n-octylphthala	684951	342476	1369902	684951	0.00
77 Perylene-d12	395150	197575	790300	395150	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.18	8.68	9.68	9.18	0.00
27 Naphthalene-d8	11.69	11.19	12.19	11.69	0.00
42 Acenaphthene-d10	15.33	14.83	15.83	15.33	0.00
59 Phenanthrene-d10	18.38	17.88	18.88	18.38	0.00
69 Chrysene-d12	23.42	22.92	23.92	23.42	0.00
134 Di-n-octylphthala	24.44	23.94	24.94	24.44	0.00
77 Perylene-d12	26.10	25.60	26.60	26.10	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123002.D

Lab ID: SKL0355-CAL5
nt14.i, 20221230.b\ABN.m,   30-DEC-2022 08:06

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

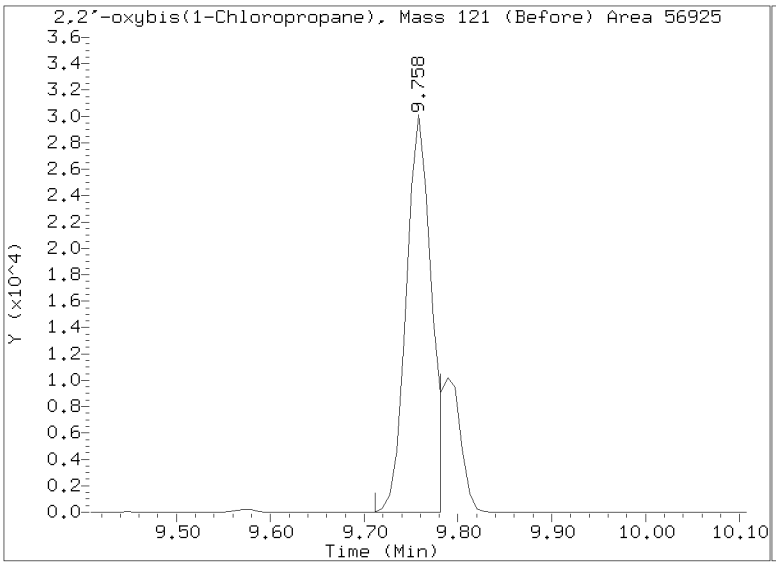
RRT check based on Ccal File: NT1422123002.D

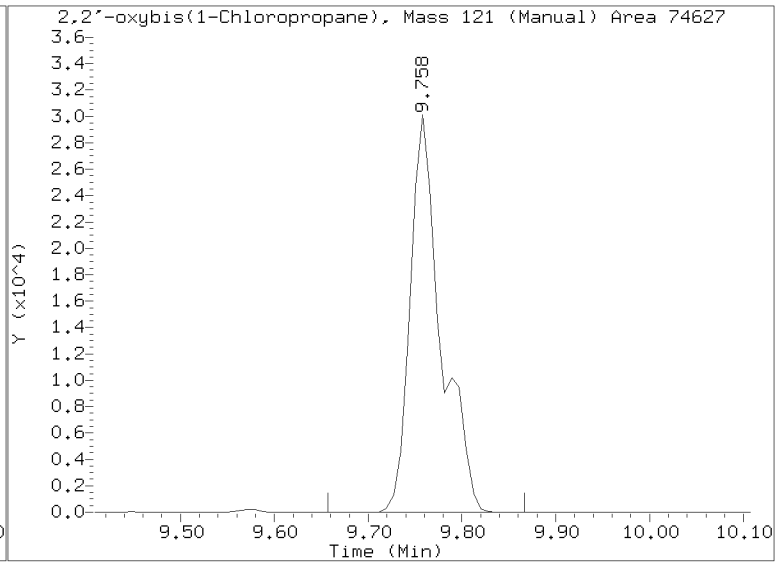
On Column LOD for nt14.i, 20221230.b\ABN.m, ICAL.sub = 0.0000

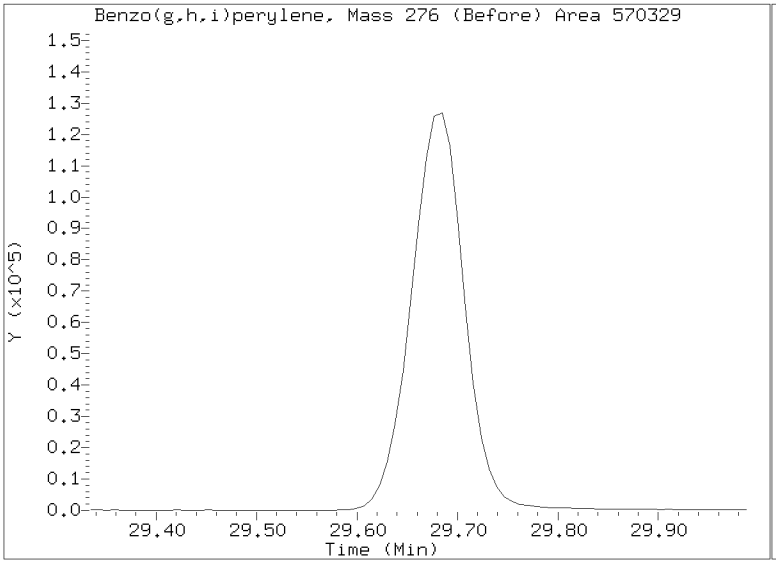
* Only compounds listed in the work order have been verified by the analyst *

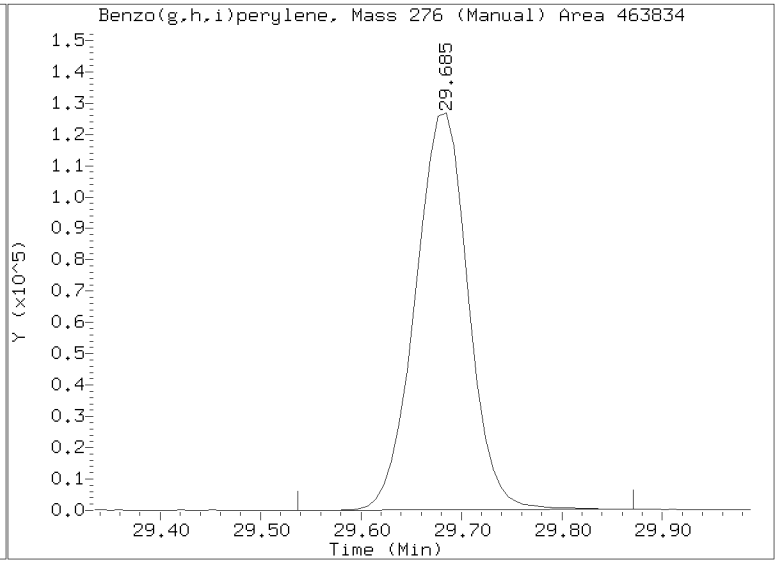
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230.b/NT1422123002.D
Injection Date: 30-DEC-2022 08:06
Lab ID:SKL0355-CAL5 Client ID:
Report Date: 01/04/2023 08:21





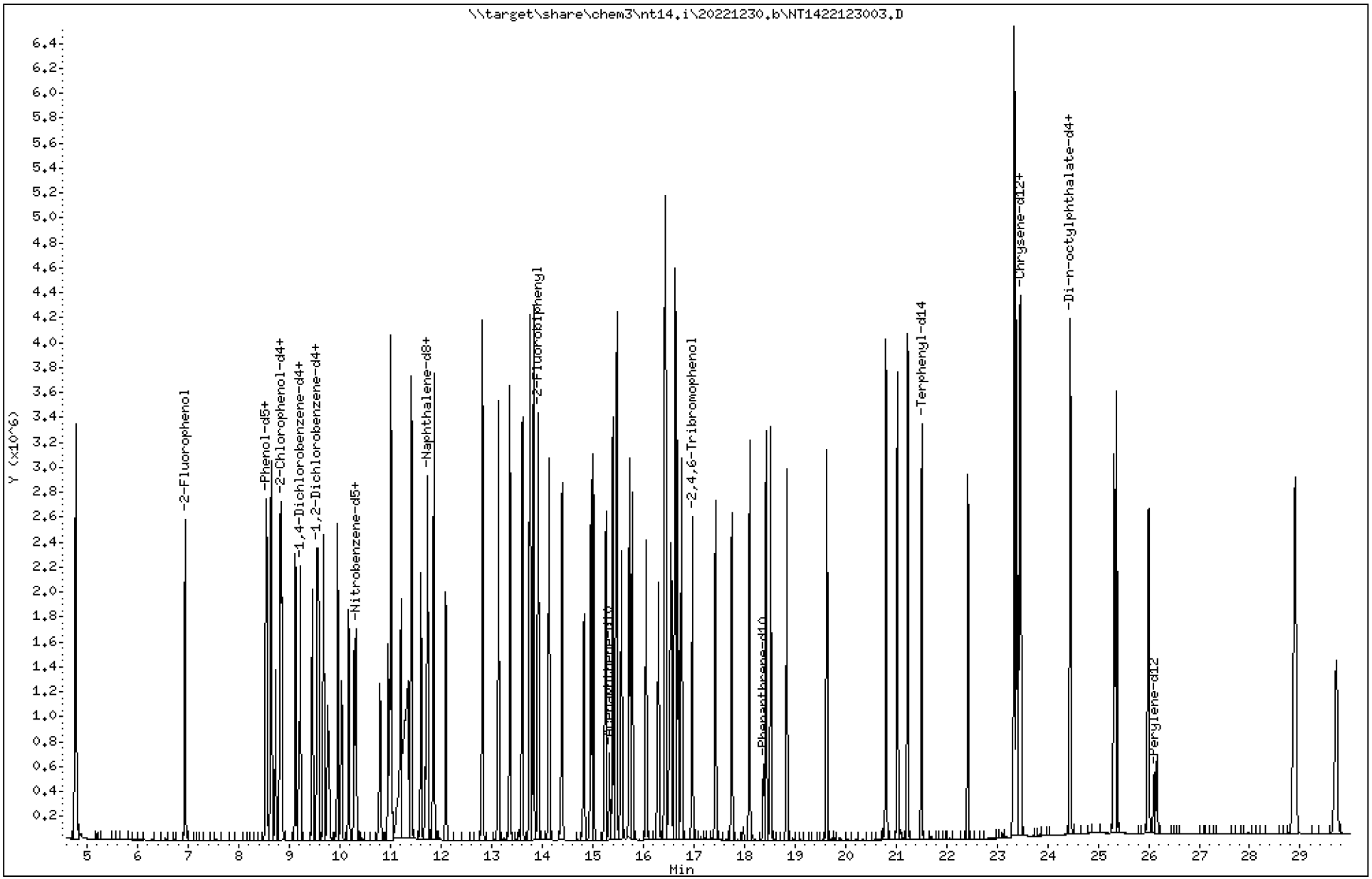




Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123003.D
Date : 30-DEC-2022 08:42
Client ID:
Sample Info: SKL0355-CAL7

Instrument: nt14.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230.b\NT1422123003.D
Lab Smp Id: SKL0355-CAL7
Inj Date : 30-DEC-2022 08:42 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-CAL7
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Meth Date : 04-Jan-2023 08:09 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 3 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.942	6.934	(0.756)	1314358	30.0000	28.63
$	2 Phenol-d5	99	8.542	8.526	(0.930)	1744514	30.0000	30.75
	3 Phenol	94	8.565	8.549	(0.933)	1204418	20.0000	18.68
$	5 2-Chlorophenol-d4	132	8.827	8.820	(0.961)	1444276	30.0000	30.31
	4 Bis(2-Chloroethyl)ether	93	8.727	8.719	(0.950)	834762	20.0000	18.80
	6 2-Chlorophenol	128	8.851	8.843	(0.964)	1023863	20.0000	19.57
	7 1,3-Dichlorobenzene	146	9.121	9.121	(0.993)	1031468	20.0000	18.59
*	8 1,4-Dichlorobenzene-d4	152	9.183	9.183	(1.000)	143300	4.00000	
	9 1,4-Dichlorobenzene	146	9.222	9.214	(1.004)	968926	20.0000	18.43
$	10 1,2-Dichlorobenzene-d4	152	9.556	9.548	(1.041)	641667	20.0000	19.70
	12 1,2-Dichlorobenzene	146	9.579	9.571	(1.043)	968627	20.0000	18.79
	11 Benzyl alcohol	108	9.463	9.447	(1.030)	617861	20.0000	21.53
	14 2,2'-oxybis(1-Chloropropane)	121	9.758	9.758	(1.063)	293591	20.0000	19.64(M)
	13 2-Methylphenol	108	9.680	9.672	(1.054)	916543	20.0000	19.57
	17 Hexachloroethane	117	10.177	10.177	(1.108)	387085	20.0000	20.02
	16 N-Nitroso-di-n-propylamine	70	10.037	10.014	(1.093)	572628	20.0000	20.07
	15 4-Methylphenol	108	9.960	9.944	(1.085)	975801	20.0000	19.75
$	18 Nitrobenzene-d5	82	10.293	10.285	(0.880)	927822	20.0000	21.65
	19 Nitrobenzene	77	10.324	10.316	(0.883)	871409	20.0000	20.47
	20 Isophorone	82	10.798	10.774	(0.923)	1359858	20.0000	25.07
	21 2-Nitrophenol	139	10.961	10.953	(0.937)	663566	20.0000	19.98
	22 2,4-Dimethylphenol	107	11.015	10.999	(0.942)	1634136	40.0000	36.78
	23 Bis(2-Chloroethoxy)methane	93	11.209	11.201	(0.958)	821530	20.0000	19.47
	24 Benzoic acid	105	11.356	11.201	(0.971)	2775564	80.0000	79.85
	25 2,4-Dichlorophenol	162	11.418	11.410	(0.976)	1523761	40.0000	40.69
	26 1,2,4-Trichlorobenzene	180	11.611	11.604	(0.993)	776910	20.0000	19.19
*	27 Naphthalene-d8	136	11.696	11.688	(1.000)	507556	4.00000	
	28 Naphthalene	128	11.735	11.735	(1.003)	2397760	20.0000	19.20
	29 4-Chloroaniline	127	11.866	11.858	(1.015)	2088829	40.0000	40.55
	30 Hexachlorobutadiene	225	12.098	12.098	(1.034)	413256	20.0000	20.57
	31 4-Chloro-3-methylphenol	107	12.826	12.818	(1.097)	1530587	40.0000	43.31
	32 2-Methylnaphthalene	142	13.143	13.135	(1.124)	1905033	20.0000	20.79
	33 Hexachlorocyclopentadiene	237	13.615	13.607	(0.888)	1071819	40.0000	48.85

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.762	13.754	(0.898)	1158685	40.0000	47.82
	35 2,4,5-Trichlorophenol	196	13.839	13.824	(0.903)	1269438	40.0000	45.40
$	36 2-Fluorobiphenyl	172	13.924	13.916	(0.908)	1948462	20.0000	19.96
	37 2-Chloronaphthalene	162	14.141	14.133	(0.922)	1632344	20.0000	19.66
	38 2-Nitroaniline	65	14.404	14.389	(0.939)	934765	40.0000	42.82
	39 Dimethylphthalate	163	14.838	14.822	(0.968)	1600487	20.0000	19.55
	40 Acenaphthylene	152	15.016	15.008	(0.979)	2471514	20.0000	19.52
	41 2,6-Dinitrotoluene	165	14.969	14.954	(0.976)	815829	40.0000	44.16
*	42 Acenaphthene-d10	164	15.333	15.325	(1.000)	290278	4.00000	
	43 3-Nitroaniline	138	15.263	15.240	(0.995)	1013527	40.0000	45.14
	44 Acenaphthene	153	15.402	15.394	(1.005)	1547905	20.0000	19.71
	45 2,4-Dinitrophenol	184	15.480	15.456	(1.010)	1614322	80.0000	79.72
	46 Dibenzofuran	168	15.735	15.719	(1.026)	2343486	20.0000	19.90
	47 4-Nitrophenol	109	15.572	15.549	(1.016)	476700	40.0000	39.93
	48 2,4-Dinitrotoluene	165	15.789	15.765	(1.030)	1139712	40.0000	44.96
	50 Diethylphthalate	149	16.307	16.283	(1.064)	2390187	20.0000	21.48
	49 Fluorene	166	16.446	16.438	(1.073)	2528345	20.0000	20.18
	51 4-Chlorophenyl-phenylether	204	16.430	16.423	(1.072)	1222294	20.0000	19.93
	52 4-Nitroaniline	138	16.554	16.515	(1.080)	1201405	40.0000	39.85
	53 4,6-Dinitro-2-methylphenol	198	16.639	16.615	(0.905)	1812002	80.0000	79.86
	54 N-Nitrosodiphenylamine	169	16.685	16.669	(0.908)	1494034	20.0000	20.57
$	55 2,4,6-Tribromophenol	330	16.978	16.970	(1.107)	504769	30.0000	29.96
	56 4-Bromophenyl-phenylether	248	17.433	17.433	(0.949)	617661	20.0000	22.46
	57 Hexachlorobenzene	284	17.757	17.749	(0.966)	615292	20.0000	20.39
	58 Pentachlorophenol	266	18.114	18.106	(0.986)	704713	40.0000	39.92
*	59 Phenanthrene-d10	188	18.377	18.376	(1.000)	423275	4.00000	
	60 Phenanthrene	178	18.431	18.423	(1.003)	2240686	20.0000	20.30
	61 Anthracene	178	18.524	18.516	(1.008)	2306983	20.0000	21.90
	62 Carbazole	167	18.849	18.841	(1.026)	2303484	20.0000	22.62
	63 Di-n-butylphthalate	149	19.630	19.630	(1.068)	2864226	20.0000	19.97
	64 Fluoranthene	202	20.806	20.806	(0.888)	2738659	20.0000	21.27
	65 Pyrene	202	21.232	21.231	(0.906)	2836592	20.0000	20.95
$	66 Terphenyl-d14	244	21.510	21.510	(0.918)	1863099	20.0000	19.41
	67 Butylbenzylphthalate	149	22.424	22.423	(0.957)	1105661	20.0000	19.98
	68 Benzo(a)anthracene	228	23.392	23.384	(0.999)	2482996	20.0000	20.50
*	69 Chrysene-d12	240	23.423	23.415	(1.000)	399899	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.345	23.329	(0.997)	2725590	60.0000	73.50
	71 Chrysene	228	23.469	23.461	(1.002)	2299977	20.0000	20.10
	72 bis(2-Ethylhexyl)phthalate	149	23.446	23.446	(0.959)	1659616	20.0000	21.74
*	134 Di-n-octylphthalate-d4	153	24.444	24.437	(1.000)	687276	4.00000	
	73 Di-n-octylphthalate	149	24.452	24.452	(1.000)	2971733	20.0000	18.01
	74 Benzo(b)fluoranthene	252	25.319	25.311	(0.970)	2547081	20.0000	22.53
	75 Benzo(k)fluoranthene	252	25.366	25.358	(0.972)	2532408	20.0000	22.01
	76 Benzo(a)pyrene	252	26.001	25.985	(0.996)	2177478	20.0000	23.17
*	77 Perylene-d12	264	26.109	26.101	(1.000)	359748	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	28.892	28.869	(1.107)	2410735	20.0000	22.56
	79 Dibenzo(a,h)anthracene	278	28.908	28.876	(1.107)	2057986	20.0000	22.67
	80 Benzo(g,h,i)perylene	276	29.715	29.684	(1.138)	1965002	20.0000	21.95
	90 N-Nitrosodimethylamine	74	4.764	4.749	(0.519)	1050073	40.0000	33.21
	91 Aniline	93	8.642	8.634	(0.941)	2373007	40.0000	37.80
	93 Benzidine	184	21.030	21.030	(0.898)	2468777	40.0000	39.84
	103 Pyridine	79	4.780	4.780	(0.521)	1589226	20.0000	15.82
	105 1-methylnaphthalene	142	13.367	13.359	(1.143)	1846760	20.0000	20.98
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.762	16.746	(1.093)	1983985	20.0000	18.40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.366	25.358	(0.972)	4865104	40.0000	44.51
120 2,3,4,6-Tetrachlorophenol	232	16.059	16.051	(1.047)	511264	20.0000	19.96

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123003.D
Lab Smp Id: SKL0355-CAL7
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Misc Info:

Calibration Date: 30-DEC-2022
Calibration Time: 08:06
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	151013	75507	302026	143300	-5.11
27 Naphthalene-d8	553510	276755	1107020	507556	-8.30
42 Acenaphthene-d10	305411	152706	610822	290278	-4.95
59 Phenanthrene-d10	491708	245854	983416	423275	-13.92
69 Chrysene-d12	424740	212370	849480	399899	-5.85
134 Di-n-octylphthala	684951	342476	1369902	687276	0.34
77 Perylene-d12	395150	197575	790300	359748	-8.96

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.18	8.68	9.68	9.18	0.00
27 Naphthalene-d8	11.69	11.19	12.19	11.70	0.07
42 Acenaphthene-d10	15.33	14.83	15.83	15.33	0.05
59 Phenanthrene-d10	18.38	17.88	18.88	18.38	0.00
69 Chrysene-d12	23.42	22.92	23.92	23.42	0.03
134 Di-n-octylphthala	24.44	23.94	24.94	24.44	0.03
77 Perylene-d12	26.10	25.60	26.60	26.11	0.03

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

REVIEW SUMMARY FOR FILE - NT1422123003.D

Lab ID: SKL0355-CAL7
nt14.i, 20221230.b\ABN.m,   30-DEC-2022 08:42

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.971	0.958	0.0126	Benzoic acid

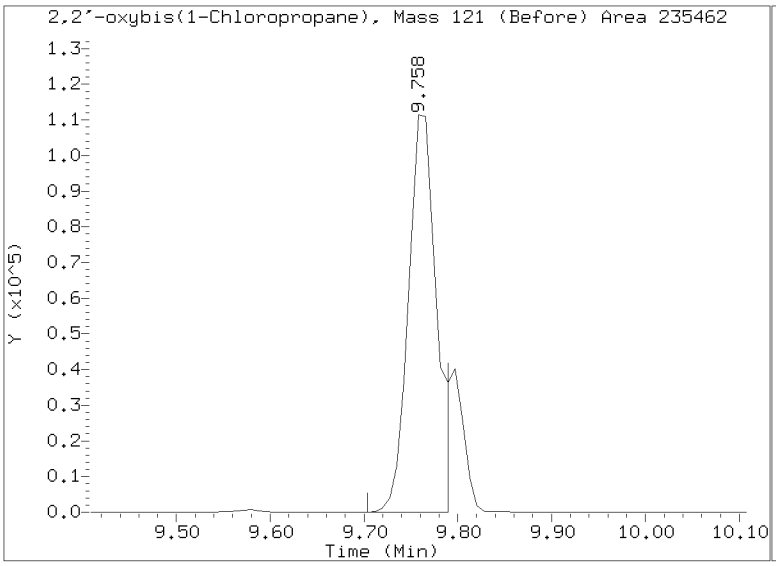
RRT check based on Ccal File: NT1422123002.D

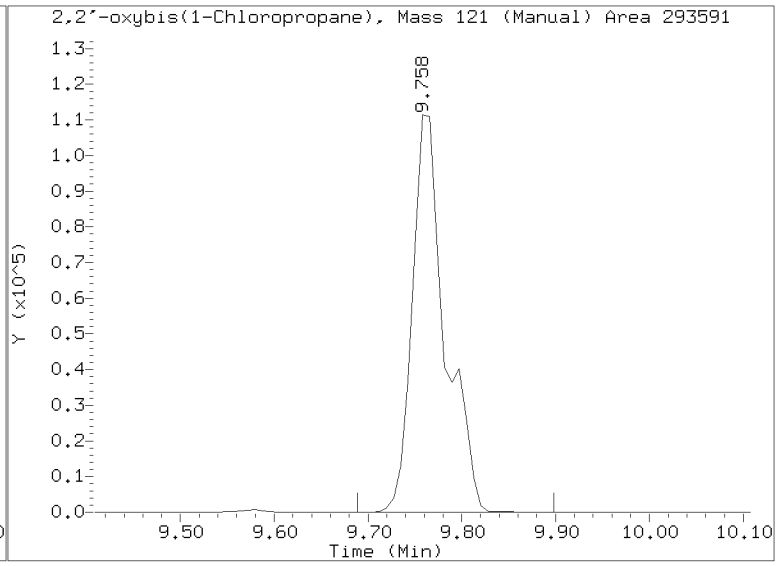
On Column LOD for nt14.i, 20221230.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

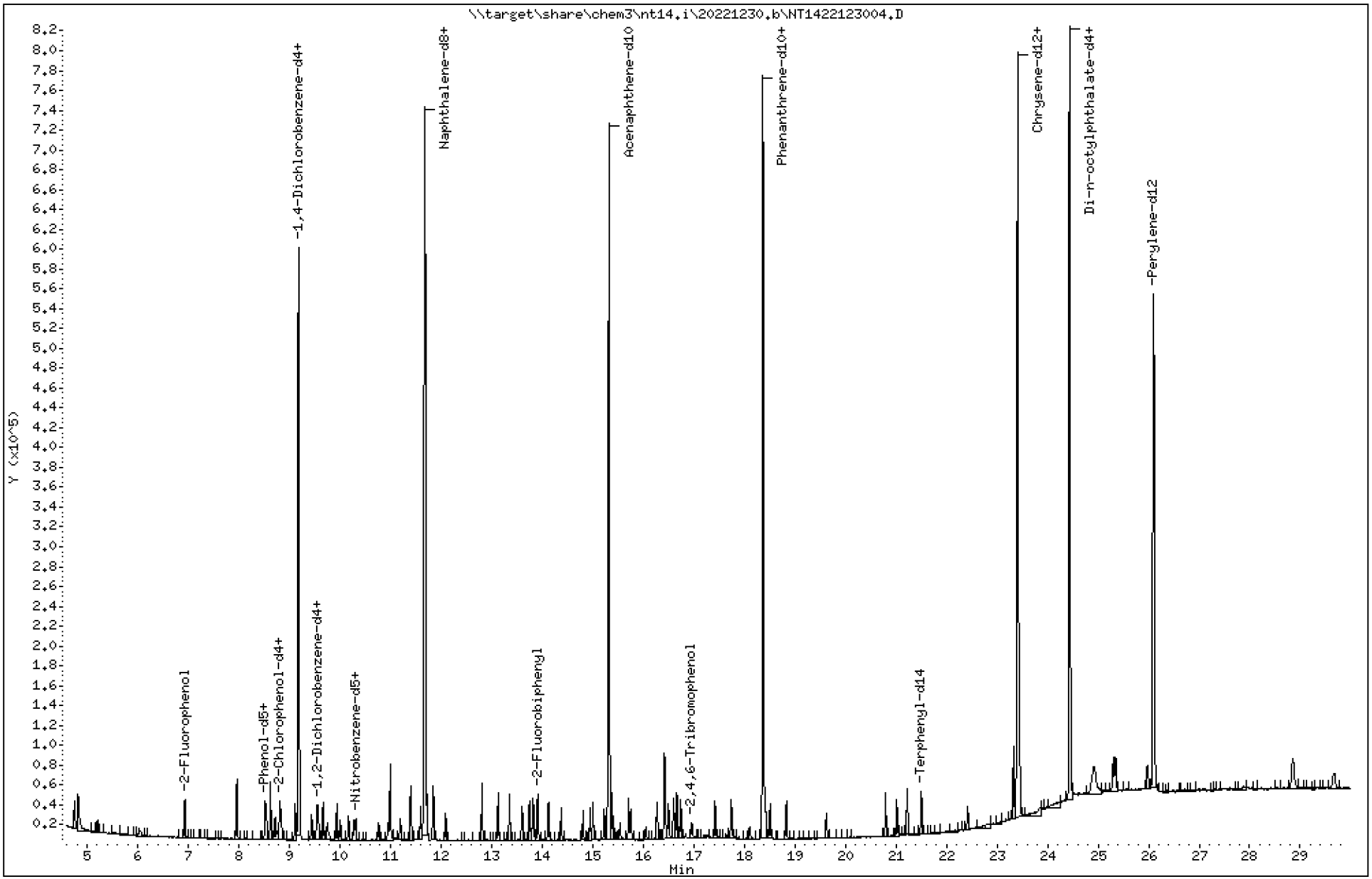
Datafile: //target/share/chem3/nt14.i/20221230.b/NT1422123003.D
Injection Date: 30-DEC-2022 08:42
Lab ID:SKL0355-CAL7 Client ID:
Report Date: 01/04/2023 08:09





Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123004.D
Date : 30-DEC-2022 09:18
Client ID:
Sample Info: SKL0355-CAL1

Instrument: nt14.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230.b\NT1422123004.D
Lab Smp Id: SKL0355-CAL1
Inj Date : 30-DEC-2022 09:18 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-CAL1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Meth Date : 04-Jan-2023 08:09 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.935	6.934	(0.755)	17139	0.30000	0.3409
$	2 Phenol-d5	99	8.519	8.526	(0.928)	19904	0.30000	0.3203
	3 Phenol	94	8.542	8.549	(0.930)	17648	0.20000	0.2499
$	5 2-Chlorophenol-d4	132	8.812	8.820	(0.960)	17183	0.30000	0.3293
	4 Bis(2-Chloroethyl)ether	93	8.720	8.719	(0.949)	12124	0.20000	0.2493
	6 2-Chlorophenol	128	8.843	8.843	(0.963)	13841	0.20000	0.2415
	7 1,3-Dichlorobenzene	146	9.122	9.121	(0.993)	15130	0.20000	0.2489
*	8 1,4-Dichlorobenzene-d4	152	9.184	9.183	(1.000)	156948	4.00000	
	9 1,4-Dichlorobenzene	146	9.215	9.214	(1.003)	14468	0.20000	0.2513
$	10 1,2-Dichlorobenzene-d4	152	9.548	9.548	(1.040)	8399	0.20000	0.2355
	12 1,2-Dichlorobenzene	146	9.572	9.571	(1.042)	13693	0.20000	0.2425
	11 Benzyl alcohol	108	9.448	9.447	(1.029)	6611	0.20000	0.2103
	14 2,2'-oxybis(1-Chloropropane)	121	9.758	9.758	(1.063)	4140	0.20000	0.2529(M)
	13 2-Methylphenol	108	9.673	9.672	(1.053)	12169	0.20000	0.2372
	17 Hexachloroethane	117	10.177	10.177	(1.108)	5046	0.20000	0.2383
	16 N-Nitroso-di-n-propylamine	70	10.014	10.014	(1.090)	6747	0.20000	0.2159
	15 4-Methylphenol	108	9.937	9.944	(1.082)	12584	0.20000	0.2325
$	18 Nitrobenzene-d5	82	10.278	10.285	(0.879)	10272	0.20000	0.2134
	19 Nitrobenzene	77	10.317	10.316	(0.883)	11076	0.20000	0.2317
	20 Isophorone	82	10.767	10.774	(0.921)	11888	0.20000	0.1951
	21 2-Nitrophenol	139	10.953	10.953	(0.937)	6191	0.20000	0.2120
	22 2,4-Dimethylphenol	107	11.000	10.999	(0.941)	23851	0.40000	0.4780
	23 Bis(2-Chloroethoxy)methane	93	11.201	11.201	(0.958)	11499	0.20000	0.2426
	24 Benzoic acid	105	11.100	11.201	(0.950)	3490	0.80000	0.1149(M)
	25 2,4-Dichlorophenol	162	11.403	11.410	(0.976)	18135	0.40000	0.4312
	26 1,2,4-Trichlorobenzene	180	11.604	11.604	(0.993)	11389	0.20000	0.2504
*	27 Naphthalene-d8	136	11.689	11.688	(1.000)	570074	4.00000	
	28 Naphthalene	128	11.727	11.735	(1.003)	34818	0.20000	0.2482
	29 4-Chloroaniline	127	11.851	11.858	(1.014)	26250	0.40000	0.4537
	30 Hexachlorobutadiene	225	12.098	12.098	(1.035)	5346	0.20000	0.2369
	31 4-Chloro-3-methylphenol	107	12.810	12.818	(1.096)	17455	0.40000	0.4398
	32 2-Methylnaphthalene	142	13.135	13.135	(1.124)	24381	0.20000	0.2369
	33 Hexachlorocyclopentadiene	237	13.607	13.607	(0.888)	8437	0.40000	0.3750

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.754	13.754	(0.897)	9231	0.40000	0.3716
	35 2,4,5-Trichlorophenol	196	13.824	13.824	(0.902)	11115	0.40000	0.3877
$	36 2-Fluorobiphenyl	172	13.917	13.916	(0.908)	23675	0.20000	0.2366
	37 2-Chloronaphthalene	162	14.134	14.133	(0.922)	20648	0.20000	0.2426
	38 2-Nitroaniline	65	14.381	14.389	(0.938)	8268	0.40000	0.3694
	39 Dimethylphthalate	163	14.815	14.822	(0.967)	19273	0.20000	0.2296
	40 Acenaphthylene	152	15.008	15.008	(0.979)	29849	0.20000	0.2300
	41 2,6-Dinitrotoluene	165	14.954	14.954	(0.976)	7046	0.40000	0.3720
*	42 Acenaphthene-d10	164	15.325	15.325	(1.000)	297614	4.00000	
	43 3-Nitroaniline	138	15.233	15.240	(0.994)	8294	0.40000	0.3603
	44 Acenaphthene	153	15.387	15.394	(1.004)	19644	0.20000	0.2440
	45 2,4-Dinitrophenol	184	15.441	15.456	(1.008)	3242	0.80000	0.2015
	46 Dibenzofuran	168	15.712	15.719	(1.025)	30090	0.20000	0.2492
	47 4-Nitrophenol	109	15.542	15.549	(1.014)	3296	0.40000	0.2991
	48 2,4-Dinitrotoluene	165	15.758	15.765	(1.028)	8877	0.40000	0.3416
	50 Diethylphthalate	149	16.276	16.283	(1.062)	22462	0.20000	0.1969
	49 Fluorene	166	16.431	16.438	(1.072)	29453	0.20000	0.2293
	51 4-Chlorophenyl-phenylether	204	16.423	16.423	(1.072)	13955	0.20000	0.2219
	52 4-Nitroaniline	138	16.500	16.515	(1.077)	10011	0.40000	0.3614
	53 4,6-Dinitro-2-methylphenol	198	16.600	16.615	(0.904)	9730	0.80000	0.4648
	54 N-Nitrosodiphenylamine	169	16.662	16.669	(0.907)	19476	0.20000	0.2277
$	55 2,4,6-Tribromophenol	330	16.970	16.970	(1.107)	3068	0.30000	0.2200
	56 4-Bromophenyl-phenylether	248	17.425	17.433	(0.949)	7149	0.20000	0.2207
	57 Hexachlorobenzene	284	17.750	17.749	(0.966)	8640	0.20000	0.2431
	58 Pentachlorophenol	266	18.106	18.106	(0.986)	3022	0.40000	0.1962
*	59 Phenanthrene-d10	188	18.369	18.376	(1.000)	498496	4.00000	
	60 Phenanthrene	178	18.416	18.423	(1.003)	31261	0.20000	0.2405
	61 Anthracene	178	18.508	18.516	(1.008)	26039	0.20000	0.2099
	62 Carbazole	167	18.833	18.841	(1.025)	25451	0.20000	0.2122
	63 Di-n-butylphthalate	149	19.630	19.630	(1.069)	21657	0.20000	0.1600
	64 Fluoranthene	202	20.798	20.806	(0.889)	28626	0.20000	0.2200
	65 Pyrene	202	21.224	21.231	(0.907)	30310	0.20000	0.2215
$	66 Terphenyl-d14	244	21.503	21.510	(0.919)	22483	0.20000	0.2317
	67 Butylbenzylphthalate	149	22.424	22.423	(0.958)	8026	0.20000	0.1555
	68 Benzo(a)anthracene	228	23.384	23.384	(0.999)	27427	0.20000	0.2240
*	69 Chrysene-d12	240	23.407	23.415	(1.000)	404183	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.330	23.329	(0.997)	24605	0.60000	0.6565
	71 Chrysene	228	23.454	23.461	(1.002)	27201	0.20000	0.2352
	72 bis(2-Ethylhexyl)phthalate	149	23.446	23.446	(0.959)	10699	0.20000	0.1781
*	134 Di-n-octylphthalate-d4	153	24.437	24.437	(1.000)	540769	4.00000	
	73 Di-n-octylphthalate	149	24.445	24.452	(1.000)	32545	0.20000	0.2507
	74 Benzo(b)fluoranthene	252	25.296	25.311	(0.969)	24096	0.20000	0.2063
	75 Benzo(k)fluoranthene	252	25.343	25.358	(0.971)	26968	0.20000	0.2268
	76 Benzo(a)pyrene	252	25.978	25.985	(0.995)	19818	0.20000	0.2041
*	77 Perylene-d12	264	26.102	26.101	(1.000)	371728	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	28.854	28.869	(1.105)	22998	0.20000	0.2083
	79 Dibenzo(a,h)anthracene	278	28.861	28.876	(1.106)	20082	0.20000	0.2141
	80 Benzo(g,h,i)perylene	276	29.661	29.684	(1.136)	20265	0.20000	0.2191
	90 N-Nitrosodimethylamine	74	4.749	4.749	(0.517)	16503	0.40000	0.4766
	91 Aniline	93	8.627	8.634	(0.939)	33005	0.40000	0.4801
	93 Benzidine	184	21.023	21.030	(0.898)	23015	0.40000	0.4647
	103 Pyridine	79	4.819	4.780	(0.525)	26293	0.20000	0.2389
	105 1-methylnaphthalene	142	13.360	13.359	(1.143)	23093	0.20000	0.2336
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.747	16.746	(1.093)	25038	0.20000	0.2265

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.296	25.358	(0.969)	49181	0.40000	0.4354
120 2,3,4,6-Tetrachlorophenol	232	16.052	16.051	(1.047)	3081	0.20000	0.1470

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123004.D
Lab Smp Id: SKL0355-CAL1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Misc Info:

Calibration Date: 30-DEC-2022
Calibration Time: 08:06
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	151013	75507	302026	156948	3.93
27 Naphthalene-d8	553510	276755	1107020	570074	2.99
42 Acenaphthene-d10	305411	152706	610822	297614	-2.55
59 Phenanthrene-d10	491708	245854	983416	498496	1.38
69 Chrysene-d12	424740	212370	849480	404183	-4.84
134 Di-n-octylphthala	684951	342476	1369902	540769	-21.05
77 Perylene-d12	395150	197575	790300	371728	-5.93

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.18	8.68	9.68	9.18	0.00
27 Naphthalene-d8	11.69	11.19	12.19	11.69	0.00
42 Acenaphthene-d10	15.33	14.83	15.83	15.33	0.00
59 Phenanthrene-d10	18.38	17.88	18.88	18.37	-0.04
69 Chrysene-d12	23.42	22.92	23.92	23.41	-0.03
134 Di-n-octylphthala	24.44	23.94	24.94	24.44	0.00
77 Perylene-d12	26.10	25.60	26.60	26.10	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123004.D

Lab ID: SKL0355-CAL1
nt14.i, 20221230.b\ABN.m,   30-DEC-2022 09:18

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.950	0.958	-0.0086	Benzoic acid

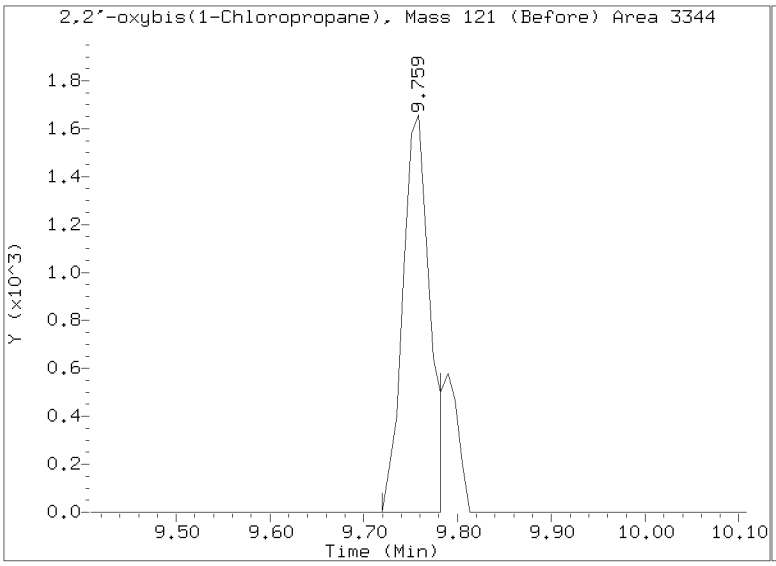
RRT check based on Ccal File: NT1422123002.D

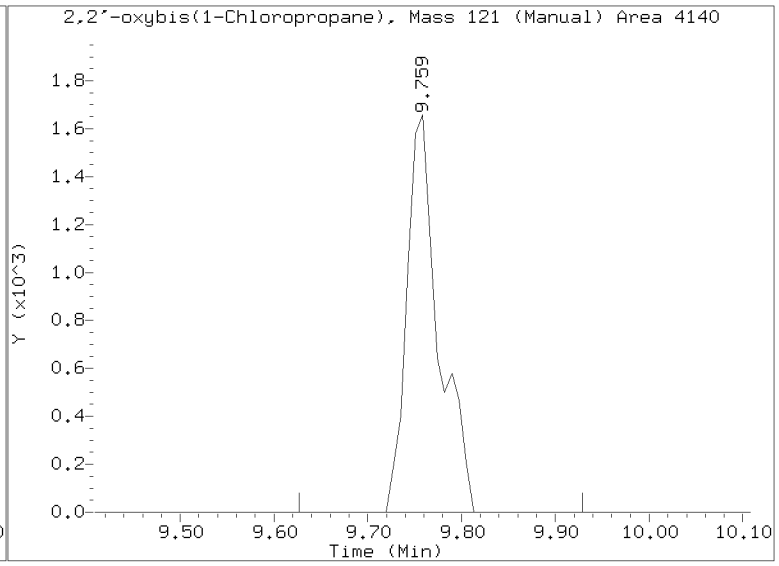
On Column LOD for nt14.i, 20221230.b\ABN.m, ICAL.sub = 0.0000

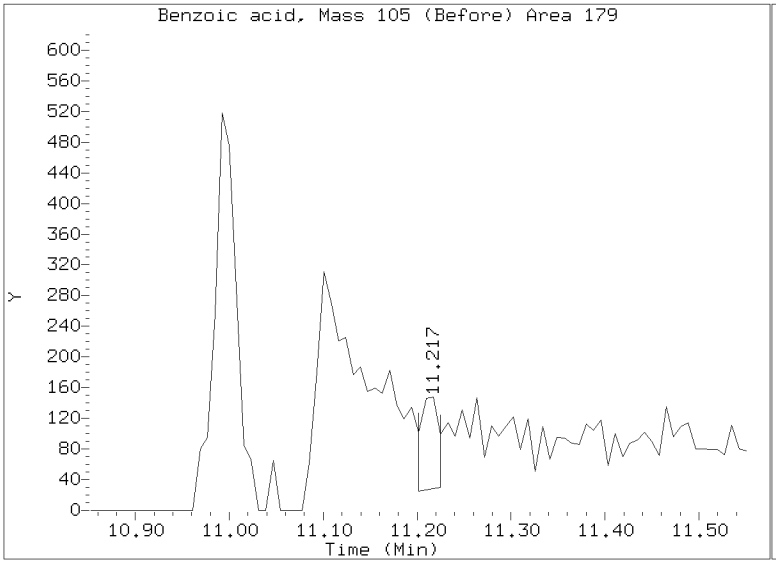
* Only compounds listed in the work order have been verified by the analyst *

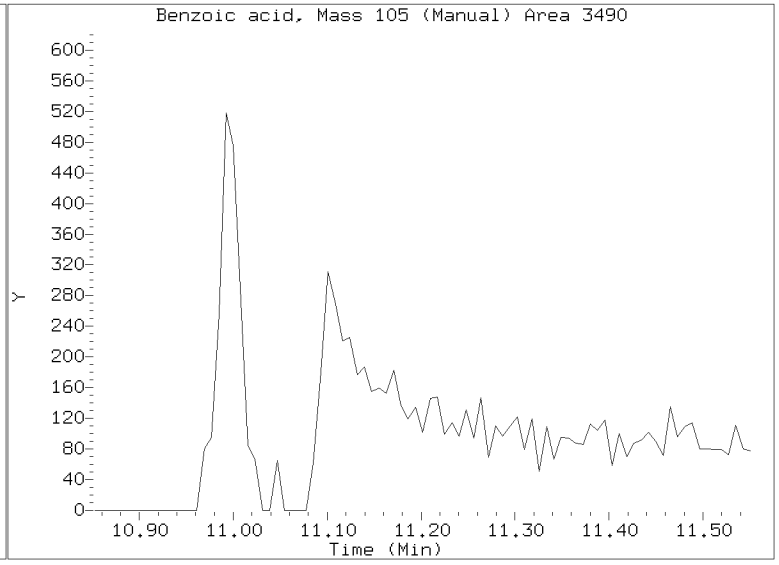
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230.b/NT1422123004.D
Injection Date: 30-DEC-2022 09:18
Lab ID:SKL0355-CAL1 Client ID:
Report Date: 01/04/2023 08:10





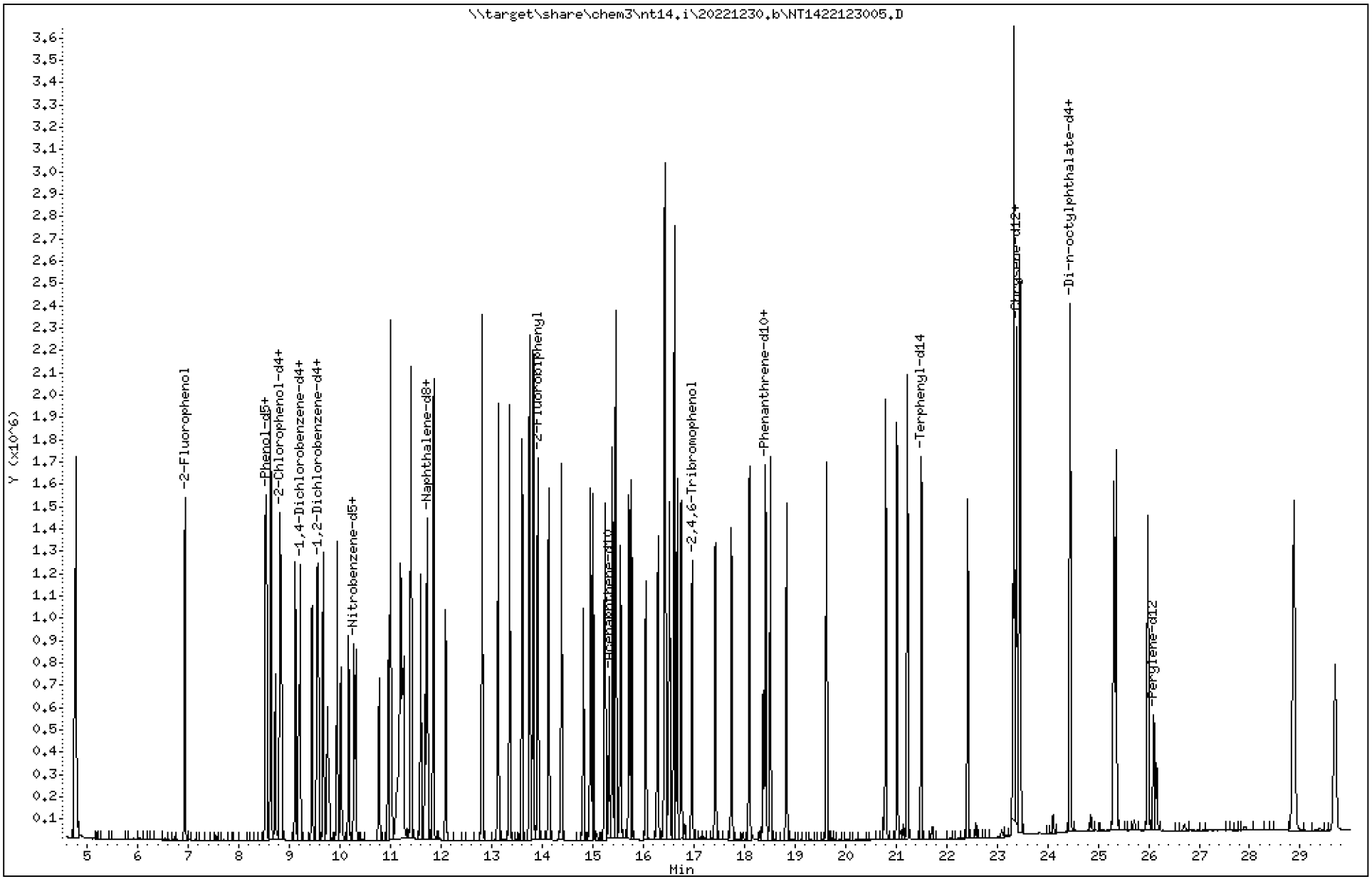




Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123005.D
Date : 30-DEC-2022 09:54
Client ID:
Sample Info: SKL0355-CAL6

Instrument: nt14.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230.b\NT1422123005.D
Lab Smp Id: SKL0355-CAL6
Inj Date : 30-DEC-2022 09:54 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-CAL6
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Meth Date : 04-Jan-2023 08:09 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 5 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.935	6.934	(0.755)	679687	15.0000	14.69
$	2 Phenol-d5	99	8.534	8.526	(0.929)	872537	15.0000	15.26
	3 Phenol	94	8.550	8.549	(0.931)	619094	10.0000	9.531
$	5 2-Chlorophenol-d4	132	8.820	8.820	(0.960)	722531	15.0000	15.05
	4 Bis(2-Chloroethyl)ether	93	8.719	8.719	(0.949)	411863	10.0000	9.204
	6 2-Chlorophenol	128	8.843	8.843	(0.963)	514491	10.0000	9.758
	7 1,3-Dichlorobenzene	146	9.122	9.121	(0.993)	516134	10.0000	9.231
*	8 1,4-Dichlorobenzene-d4	152	9.184	9.183	(1.000)	144388	4.00000	
	9 1,4-Dichlorobenzene	146	9.215	9.214	(1.003)	492544	10.0000	9.299
$	10 1,2-Dichlorobenzene-d4	152	9.548	9.548	(1.040)	317548	10.0000	9.677
	12 1,2-Dichlorobenzene	146	9.572	9.571	(1.042)	485695	10.0000	9.350
	11 Benzyl alcohol	108	9.455	9.447	(1.030)	302837	10.0000	10.47
	14 2,2'-oxybis(1-Chloropropane)	121	9.758	9.758	(1.063)	133200	10.0000	8.844(M)
	13 2-Methylphenol	108	9.673	9.672	(1.053)	460441	10.0000	9.755
	17 Hexachloroethane	117	10.177	10.177	(1.108)	188693	10.0000	9.686
	16 N-Nitroso-di-n-propylamine	70	10.022	10.014	(1.091)	287238	10.0000	9.990
	15 4-Methylphenol	108	9.944	9.944	(1.083)	494444	10.0000	9.930
$	18 Nitrobenzene-d5	82	10.286	10.285	(0.880)	458887	10.0000	10.44
	19 Nitrobenzene	77	10.317	10.316	(0.883)	435132	10.0000	9.968
	20 Isophorone	82	10.775	10.774	(0.922)	599485	10.0000	10.78
	21 2-Nitrophenol	139	10.953	10.953	(0.937)	296338	10.0000	10.08
	22 2,4-Dimethylphenol	107	11.007	10.999	(0.942)	971073	20.0000	21.31
	23 Bis(2-Chloroethoxy)methane	93	11.201	11.201	(0.958)	410542	10.0000	9.485
	24 Benzoic acid	105	11.271	11.201	(0.964)	1255023	40.0000	40.83
	25 2,4-Dichlorophenol	162	11.410	11.410	(0.976)	839403	20.0000	21.86
	26 1,2,4-Trichlorobenzene	180	11.604	11.604	(0.993)	387504	10.0000	9.332
*	27 Naphthalene-d8	136	11.689	11.688	(1.000)	520524	4.00000	
	28 Naphthalene	128	11.735	11.735	(1.004)	1223288	10.0000	9.550
	29 4-Chloroaniline	127	11.859	11.858	(1.015)	1081365	20.0000	20.47
	30 Hexachlorobutadiene	225	12.098	12.098	(1.035)	200462	10.0000	9.730
	31 4-Chloro-3-methylphenol	107	12.818	12.818	(1.097)	772836	20.0000	21.32
	32 2-Methylnaphthalene	142	13.135	13.135	(1.124)	946377	10.0000	10.07
	33 Hexachlorocyclopentadiene	237	13.607	13.607	(0.888)	488475	20.0000	22.16

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.754	13.754	(0.897)	538916	20.0000	22.14
	35 2,4,5-Trichlorophenol	196	13.832	13.824	(0.903)	607808	20.0000	21.64
$	36 2-Fluorobiphenyl	172	13.917	13.916	(0.908)	949918	10.0000	9.689
	37 2-Chloronaphthalene	162	14.134	14.133	(0.922)	801615	10.0000	9.611
	38 2-Nitroaniline	65	14.389	14.389	(0.939)	471220	20.0000	21.49
	39 Dimethylphthalate	163	14.822	14.822	(0.967)	795860	10.0000	9.678
	40 Acenaphthylene	152	15.008	15.008	(0.979)	1241465	10.0000	9.762
	41 2,6-Dinitrotoluene	165	14.962	14.954	(0.976)	393357	20.0000	21.20
*	42 Acenaphthene-d10	164	15.325	15.325	(1.000)	291597	4.00000	
	43 3-Nitroaniline	138	15.248	15.240	(0.995)	486154	20.0000	21.55
	44 Acenaphthene	153	15.395	15.394	(1.005)	762858	10.0000	9.671
	45 2,4-Dinitrophenol	184	15.464	15.456	(1.009)	731163	40.0000	41.68
	46 Dibenzofuran	168	15.719	15.719	(1.026)	1138667	10.0000	9.626
	47 4-Nitrophenol	109	15.557	15.549	(1.015)	230638	20.0000	20.34
	48 2,4-Dinitrotoluene	165	15.774	15.765	(1.029)	547007	20.0000	21.48
	50 Diethylphthalate	149	16.292	16.283	(1.063)	1117494	10.0000	9.998
	49 Fluorene	166	16.438	16.438	(1.073)	1268888	10.0000	10.08
	51 4-Chlorophenyl-phenylether	204	16.423	16.423	(1.072)	605617	10.0000	9.831
	52 4-Nitroaniline	138	16.523	16.515	(1.078)	591978	20.0000	20.71
	53 4,6-Dinitro-2-methylphenol	198	16.623	16.615	(0.905)	868287	40.0000	40.88
	54 N-Nitrosodiphenylamine	169	16.670	16.669	(0.907)	756128	10.0000	9.633
$	55 2,4,6-Tribromophenol	330	16.970	16.970	(1.107)	228033	15.0000	15.25
	56 4-Bromophenyl-phenylether	248	17.433	17.433	(0.949)	296950	10.0000	9.990
	57 Hexachlorobenzene	284	17.750	17.749	(0.966)	308248	10.0000	9.450
	58 Pentachlorophenol	266	18.106	18.106	(0.985)	325403	20.0000	20.49
*	59 Phenanthrene-d10	188	18.377	18.376	(1.000)	457445	4.00000	
	60 Phenanthrene	178	18.423	18.423	(1.003)	1136058	10.0000	9.525
	61 Anthracene	178	18.516	18.516	(1.008)	1166723	10.0000	10.25
	62 Carbazole	167	18.841	18.841	(1.025)	1106489	10.0000	10.05
	63 Di-n-butylphthalate	149	19.630	19.630	(1.068)	1391254	10.0000	10.21
	64 Fluoranthene	202	20.806	20.806	(0.889)	1335570	10.0000	10.15
	65 Pyrene	202	21.224	21.231	(0.906)	1400336	10.0000	10.12
$	66 Terphenyl-d14	244	21.503	21.510	(0.918)	945502	10.0000	9.639
	67 Butylbenzylphthalate	149	22.424	22.423	(0.958)	545847	10.0000	10.07
	68 Benzo(a)anthracene	228	23.384	23.384	(0.999)	1247362	10.0000	10.08
*	69 Chrysene-d12	240	23.415	23.415	(1.000)	408635	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.338	23.329	(0.997)	1218183	30.0000	32.15
	71 Chrysene	228	23.461	23.461	(1.002)	1138686	10.0000	9.738
	72 bis(2-Ethylhexyl)phthalate	149	23.446	23.446	(0.959)	808502	10.0000	11.16
*	134 Di-n-octylphthalate-d4	153	24.437	24.437	(1.000)	652062	4.00000	
	73 Di-n-octylphthalate	149	24.452	24.452	(1.001)	1452216	10.0000	9.278
	74 Benzo(b)fluoranthene	252	25.312	25.311	(0.970)	1240733	10.0000	10.56
	75 Benzo(k)fluoranthene	252	25.358	25.358	(0.972)	1222178	10.0000	10.22
	76 Benzo(a)pyrene	252	25.985	25.985	(0.996)	1054229	10.0000	10.80
*	77 Perylene-d12	264	26.102	26.101	(1.000)	373712	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	28.869	28.869	(1.106)	1165940	10.0000	10.51
	79 Dibenzo(a,h)anthracene	278	28.885	28.876	(1.107)	993824	10.0000	10.54
	80 Benzo(g,h,i)perylene	276	29.692	29.684	(1.138)	963494	10.0000	10.36
	90 N-Nitrosodimethylamine	74	4.757	4.749	(0.518)	607307	20.0000	19.06
	91 Aniline	93	8.635	8.634	(0.940)	1222568	20.0000	19.33
	93 Benzidine	184	21.023	21.030	(0.898)	1160731	20.0000	20.97
	103 Pyridine	79	4.780	4.780	(0.521)	938645	10.0000	9.272
	105 1-methylnaphthalene	142	13.360	13.359	(1.143)	908074	10.0000	10.06
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.754	16.746	(1.093)	1036002	10.0000	9.567

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.358	25.358	(0.972)	2352916	20.0000	20.72
120 2,3,4,6-Tetrachlorophenol	232	16.052	16.051	(1.047)	230505	10.0000	10.22

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123005.D
Lab Smp Id: SKL0355-CAL6
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Misc Info:

Calibration Date: 30-DEC-2022
Calibration Time: 08:06
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	151013	75507	302026	144388	-4.39
27 Naphthalene-d8	553510	276755	1107020	520524	-5.96
42 Acenaphthene-d10	305411	152706	610822	291597	-4.52
59 Phenanthrene-d10	491708	245854	983416	457445	-6.97
69 Chrysene-d12	424740	212370	849480	408635	-3.79
134 Di-n-octylphthala	684951	342476	1369902	652062	-4.80
77 Perylene-d12	395150	197575	790300	373712	-5.43

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.18	8.68	9.68	9.18	0.00
27 Naphthalene-d8	11.69	11.19	12.19	11.69	0.00
42 Acenaphthene-d10	15.33	14.83	15.83	15.33	0.00
59 Phenanthrene-d10	18.38	17.88	18.88	18.38	0.00
69 Chrysene-d12	23.42	22.92	23.92	23.42	0.00
134 Di-n-octylphthala	24.44	23.94	24.94	24.44	0.00
77 Perylene-d12	26.10	25.60	26.60	26.10	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123005.D

Lab ID: SKL0355-CAL6
nt14.i, 20221230.b\ABN.m,   30-DEC-2022 09:54

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.964	0.958	0.0060	Benzoic acid

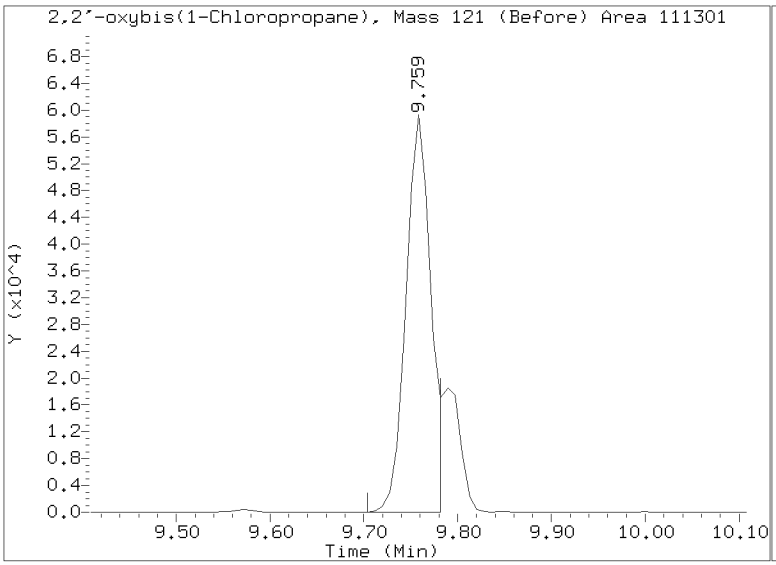
RRT check based on Ccal File: NT1422123002.D

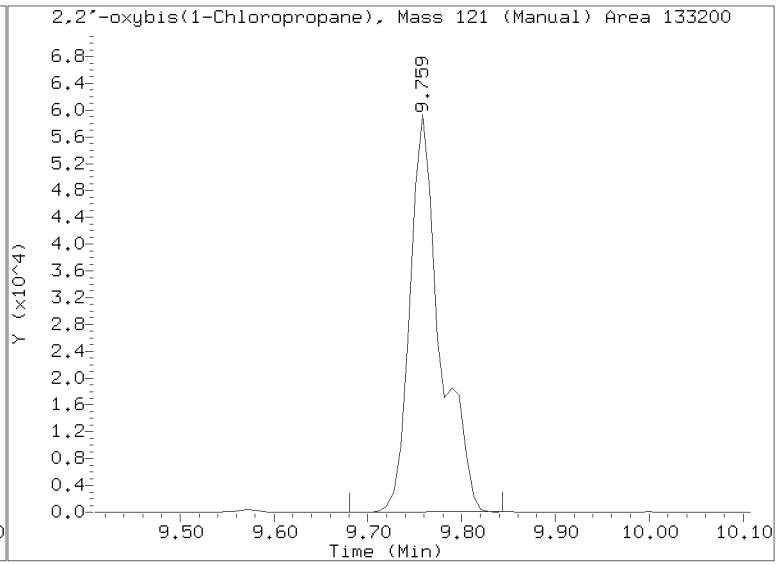
On Column LOD for nt14.i, 20221230.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230.b/NT1422123005.D
Injection Date: 30-DEC-2022 09:54
Lab ID:SKL0355-CAL6 Client ID:
Report Date: 01/04/2023 08:10

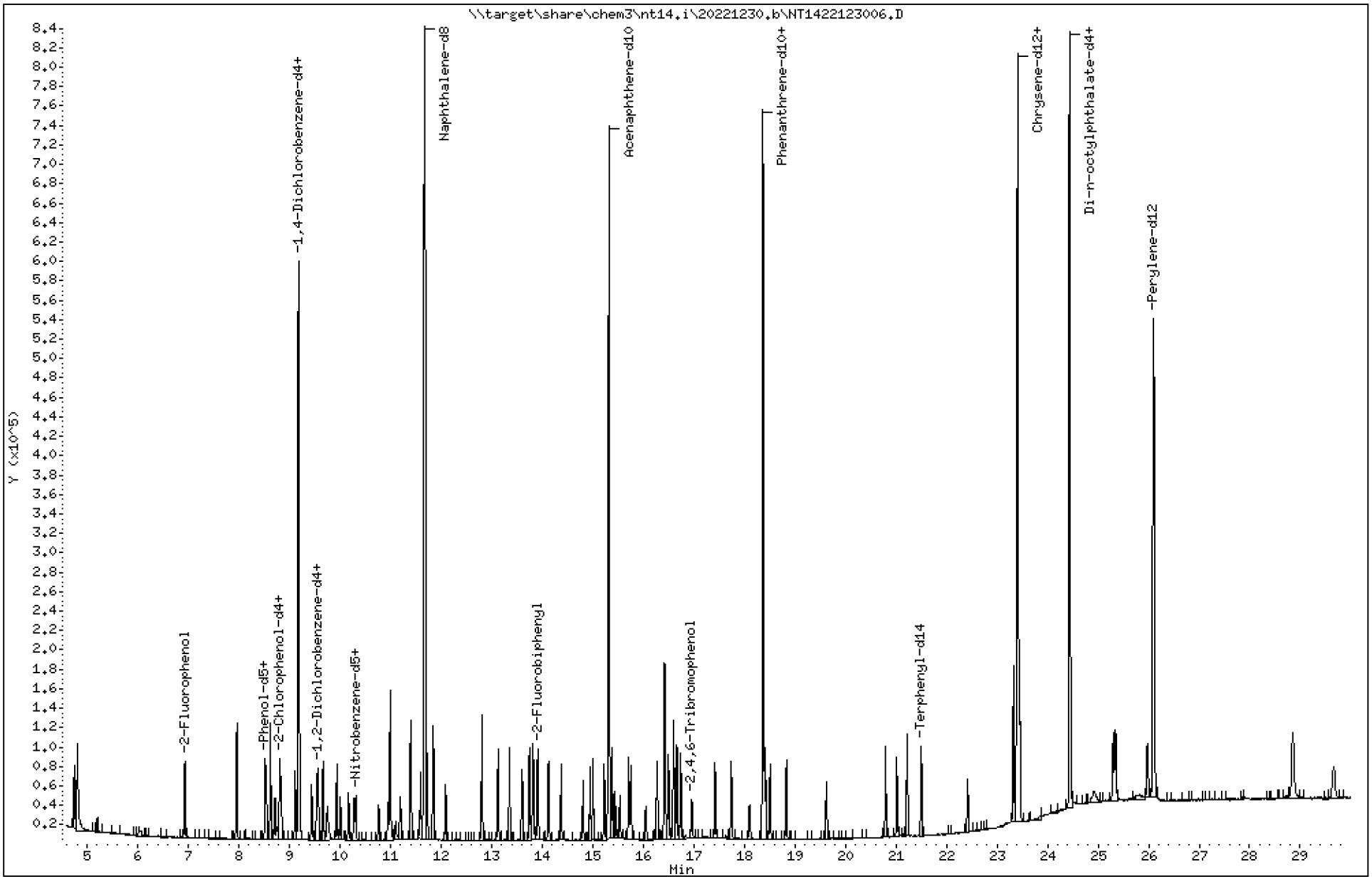




Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123006.D
Date : 30-DEC-2022 10:30
Client ID:
Sample Info: SKL0355-CAL2

Instrument: nt14.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230.b\NT1422123006.D
Lab Smp Id: SKL0355-CAL2
Inj Date : 30-DEC-2022 10:30 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-CAL2
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Meth Date : 04-Jan-2023 08:09 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.935	6.934	(0.755)	34903	0.75000	0.6981
$	2 Phenol-d5	99	8.519	8.526	(0.928)	42199	0.75000	0.6830
	3 Phenol	94	8.542	8.549	(0.930)	36124	0.50000	0.5145
$	5 2-Chlorophenol-d4	132	8.812	8.820	(0.960)	35806	0.75000	0.6900
	4 Bis(2-Chloroethyl)ether	93	8.720	8.719	(0.949)	24289	0.50000	0.5022
	6 2-Chlorophenol	128	8.843	8.843	(0.963)	29167	0.50000	0.5118
	7 1,3-Dichlorobenzene	146	9.114	9.121	(0.992)	30449	0.50000	0.5039
*	8 1,4-Dichlorobenzene-d4	152	9.184	9.183	(1.000)	156057	4.00000	
	9 1,4-Dichlorobenzene	146	9.215	9.214	(1.003)	28610	0.50000	0.4997
$	10 1,2-Dichlorobenzene-d4	152	9.548	9.548	(1.040)	17119	0.50000	0.4827
	12 1,2-Dichlorobenzene	146	9.572	9.571	(1.042)	28498	0.50000	0.5076
	11 Benzyl alcohol	108	9.447	9.447	(1.029)	14402	0.50000	0.4608
	14 2,2'-oxybis(1-Chloropropane)	121	9.758	9.758	(1.063)	8044	0.50000	0.4942(M)
	13 2-Methylphenol	108	9.673	9.672	(1.053)	25776	0.50000	0.5053
	17 Hexachloroethane	117	10.177	10.177	(1.108)	10124	0.50000	0.4808
	16 N-Nitroso-di-n-propylamine	70	10.014	10.014	(1.090)	14481	0.50000	0.4660
	15 4-Methylphenol	108	9.937	9.944	(1.082)	26897	0.50000	0.4998
$	18 Nitrobenzene-d5	82	10.278	10.285	(0.879)	21401	0.50000	0.4431
	19 Nitrobenzene	77	10.317	10.316	(0.883)	22648	0.50000	0.4721
	20 Isophorone	82	10.767	10.774	(0.921)	25135	0.50000	0.4111
	21 2-Nitrophenol	139	10.953	10.953	(0.937)	12069	0.50000	0.4112
	22 2,4-Dimethylphenol	107	11.000	10.999	(0.941)	51050	1.00000	1.020
	23 Bis(2-Chloroethoxy)methane	93	11.193	11.201	(0.958)	23378	0.50000	0.4915
	24 Benzoic acid	105	11.108	11.201	(0.950)	14207	2.00000	0.4659(M)
	25 2,4-Dichlorophenol	162	11.403	11.410	(0.976)	40191	1.00000	0.9524
	26 1,2,4-Trichlorobenzene	180	11.596	11.604	(0.992)	23206	0.50000	0.5086
*	27 Naphthalene-d8	136	11.689	11.688	(1.000)	571985	4.00000	
	28 Naphthalene	128	11.727	11.735	(1.003)	69183	0.50000	0.4915
	29 4-Chloroaniline	127	11.851	11.858	(1.014)	56453	1.00000	0.9725
	30 Hexachlorobutadiene	225	12.098	12.098	(1.035)	11064	0.50000	0.4887
	31 4-Chloro-3-methylphenol	107	12.810	12.818	(1.096)	38662	1.00000	0.9708
	32 2-Methylnaphthalene	142	13.135	13.135	(1.124)	49620	0.50000	0.4806
	33 Hexachlorocyclopentadiene	237	13.607	13.607	(0.888)	18783	1.00000	0.8233

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.754	13.754	(0.897)	21656	1.00000	0.8597
	35 2,4,5-Trichlorophenol	196	13.824	13.824	(0.902)	27255	1.00000	0.9375
$	36 2-Fluorobiphenyl	172	13.917	13.916	(0.908)	47567	0.50000	0.4688
	37 2-Chloronaphthalene	162	14.134	14.133	(0.922)	42164	0.50000	0.4884
	38 2-Nitroaniline	65	14.381	14.389	(0.938)	19656	1.00000	0.8661
	39 Dimethylphthalate	163	14.815	14.822	(0.967)	40698	0.50000	0.4782
	40 Acenaphthylene	152	15.008	15.008	(0.979)	63153	0.50000	0.4798
	41 2,6-Dinitrotoluene	165	14.954	14.954	(0.976)	16410	1.00000	0.8543
*	42 Acenaphthene-d10	164	15.325	15.325	(1.000)	301808	4.00000	
	43 3-Nitroaniline	138	15.233	15.240	(0.994)	19877	1.00000	0.8514
	44 Acenaphthene	153	15.387	15.394	(1.004)	39464	0.50000	0.4834
	45 2,4-Dinitrophenol	184	15.441	15.456	(1.008)	12777	2.00000	0.7820
	46 Dibenzofuran	168	15.712	15.719	(1.025)	60485	0.50000	0.4940
	47 4-Nitrophenol	109	15.542	15.549	(1.014)	8162	1.00000	0.7298
	48 2,4-Dinitrotoluene	165	15.758	15.765	(1.028)	22031	1.00000	0.8360
	50 Diethylphthalate	149	16.276	16.283	(1.062)	48213	0.50000	0.4167
	49 Fluorene	166	16.431	16.438	(1.072)	61703	0.50000	0.4738
	51 4-Chlorophenyl-phenylether	204	16.423	16.423	(1.072)	28550	0.50000	0.4478
	52 4-Nitroaniline	138	16.500	16.515	(1.077)	23979	1.00000	0.8525
	53 4,6-Dinitro-2-methylphenol	198	16.600	16.615	(0.904)	28739	2.00000	1.378
	54 N-Nitrosodiphenylamine	169	16.670	16.669	(0.907)	41445	0.50000	0.4873
$	55 2,4,6-Tribromophenol	330	16.963	16.970	(1.107)	7439	0.75000	0.5253
	56 4-Bromophenyl-phenylether	248	17.425	17.433	(0.949)	14917	0.50000	0.4632
	57 Hexachlorobenzene	284	17.750	17.749	(0.966)	17094	0.50000	0.4837
	58 Pentachlorophenol	266	18.106	18.106	(0.986)	7931	1.00000	0.5172
*	59 Phenanthrene-d10	188	18.369	18.376	(1.000)	495600	4.00000	
	60 Phenanthrene	178	18.415	18.423	(1.003)	62770	0.50000	0.4858
	61 Anthracene	178	18.508	18.516	(1.008)	56156	0.50000	0.4552
	62 Carbazole	167	18.833	18.841	(1.025)	55016	0.50000	0.4613
	63 Di-n-butylphthalate	149	19.630	19.630	(1.069)	48994	0.50000	0.3635
	64 Fluoranthene	202	20.798	20.806	(0.889)	59348	0.50000	0.4569
	65 Pyrene	202	21.224	21.231	(0.907)	64535	0.50000	0.4725
$	66 Terphenyl-d14	244	21.503	21.510	(0.919)	45758	0.50000	0.4725
	67 Butylbenzylphthalate	149	22.424	22.423	(0.958)	17654	0.50000	0.3425
	68 Benzo(a)anthracene	228	23.376	23.384	(0.999)	57446	0.50000	0.4700
*	69 Chrysene-d12	240	23.407	23.415	(1.000)	403440	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.330	23.329	(0.997)	53862	1.50000	1.440
	71 Chrysene	228	23.454	23.461	(1.002)	56466	0.50000	0.4891
	72 bis(2-Ethylhexyl)phthalate	149	23.438	23.446	(0.959)	24451	0.50000	0.4089
*	134 Di-n-octylphthalate-d4	153	24.437	24.437	(1.000)	538411	4.00000	
	73 Di-n-octylphthalate	149	24.445	24.452	(1.000)	65847	0.50000	0.5095
	74 Benzo(b)fluoranthene	252	25.296	25.311	(0.969)	50315	0.50000	0.4235
	75 Benzo(k)fluoranthene	252	25.343	25.358	(0.971)	57082	0.50000	0.4720
	76 Benzo(a)pyrene	252	25.978	25.985	(0.995)	42758	0.50000	0.4329
*	77 Perylene-d12	264	26.102	26.101	(1.000)	378046	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	28.854	28.869	(1.105)	49428	0.50000	0.4402
	79 Dibenzo(a,h)anthracene	278	28.861	28.876	(1.106)	42151	0.50000	0.4418
	80 Benzo(g,h,i)perylene	276	29.661	29.684	(1.136)	42449	0.50000	0.4513
	90 N-Nitrosodimethylamine	74	4.749	4.749	(0.517)	34503	1.00000	1.002
	91 Aniline	93	8.627	8.634	(0.939)	67619	1.00000	0.9892
	93 Benzidine	184	21.023	21.030	(0.898)	50054	1.00000	1.010
	103 Pyridine	79	4.803	4.780	(0.523)	55583	0.50000	0.5080
	105 1-methylnaphthalene	142	13.360	13.359	(1.143)	47699	0.50000	0.4808
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.747	16.746	(1.093)	55153	0.50000	0.4921

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.343	25.358	(0.971)	103541	1.00000	0.9014
120 2,3,4,6-Tetrachlorophenol	232	16.052	16.051	(1.047)	7674	0.50000	0.3605

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123006.D
Lab Smp Id: SKL0355-CAL2
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Misc Info:

Calibration Date: 30-DEC-2022
Calibration Time: 08:06
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	151013	75507	302026	156057	3.34
27 Naphthalene-d8	553510	276755	1107020	571985	3.34
42 Acenaphthene-d10	305411	152706	610822	301808	-1.18
59 Phenanthrene-d10	491708	245854	983416	495600	0.79
69 Chrysene-d12	424740	212370	849480	403440	-5.01
134 Di-n-octylphthala	684951	342476	1369902	538411	-21.39
77 Perylene-d12	395150	197575	790300	378046	-4.33

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.18	8.68	9.68	9.18	0.00
27 Naphthalene-d8	11.69	11.19	12.19	11.69	0.00
42 Acenaphthene-d10	15.33	14.83	15.83	15.33	0.00
59 Phenanthrene-d10	18.38	17.88	18.88	18.37	-0.04
69 Chrysene-d12	23.42	22.92	23.92	23.41	-0.03
134 Di-n-octylphthala	24.44	23.94	24.94	24.44	0.00
77 Perylene-d12	26.10	25.60	26.60	26.10	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123006.D

Lab ID: SKL0355-CAL2
nt14.i, 20221230.b\ABN.m,   30-DEC-2022 10:30

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.950	0.958	-0.0080	Benzoic acid

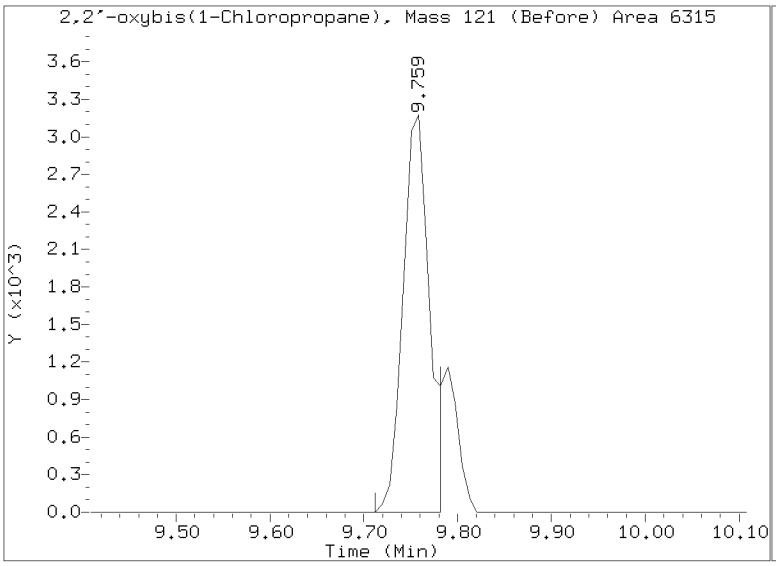
RRT check based on Ccal File: NT1422123002.D

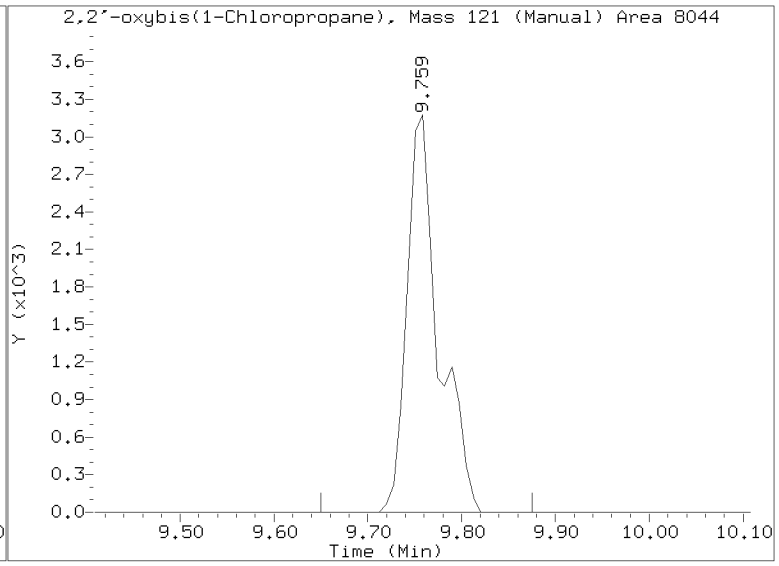
On Column LOD for nt14.i, 20221230.b\ABN.m, ICAL.sub = 0.0000

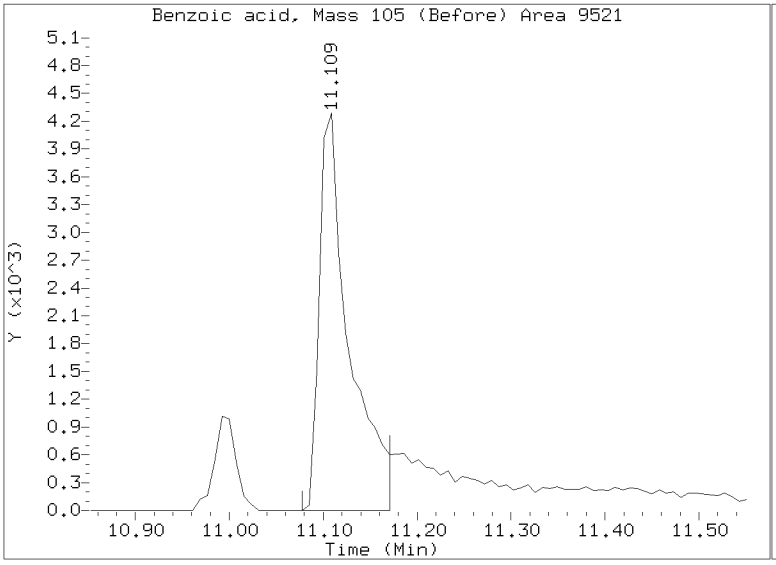
* Only compounds listed in the work order have been verified by the analyst *

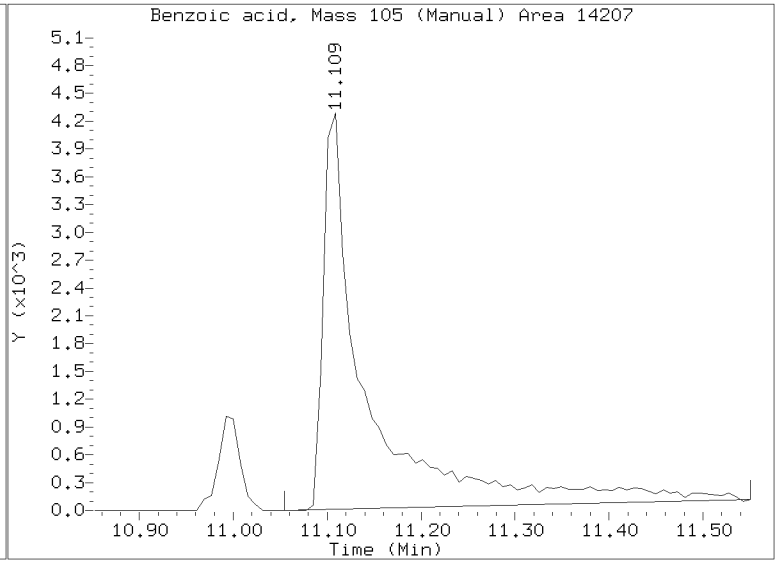
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230.b/NT1422123006.D
Injection Date: 30-DEC-2022 10:30
Lab ID:SKL0355-CAL2 Client ID:
Report Date: 01/04/2023 08:10





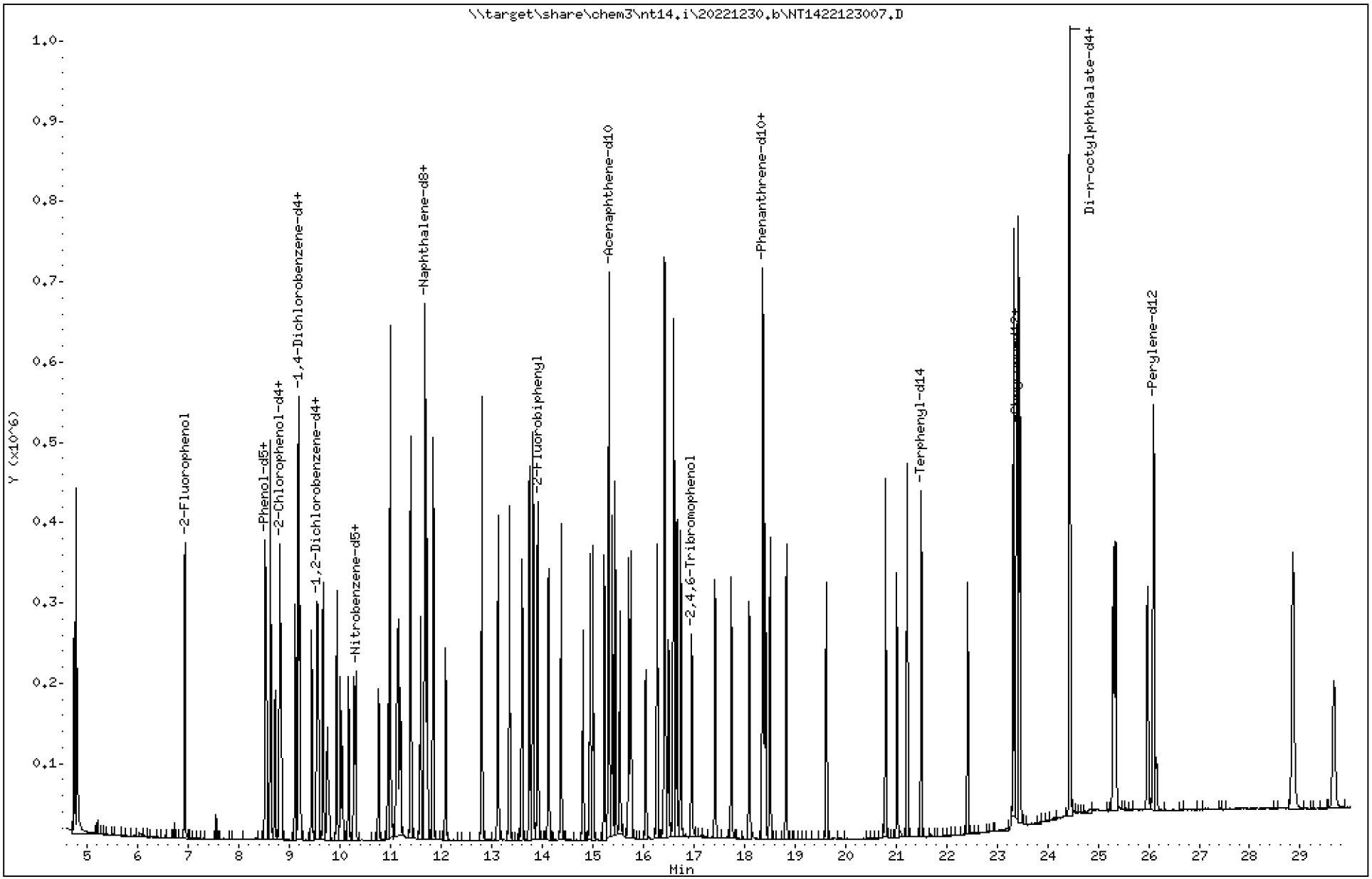




Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123007.D
Date : 30-DEC-2022 11:07
Client ID:
Sample Info: SKL0355-CAL4

Instrument: nt14.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230.b\NT1422123007.D
Lab Smp Id: SKL0355-CAL4
Inj Date : 30-DEC-2022 11:07 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-CAL4
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Meth Date : 04-Jan-2023 08:09 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.935	6.934	(0.755)	161372	3.75000	3.490
$	2 Phenol-d5	99	8.526	8.526	(0.928)	197392	3.75000	3.454
	3 Phenol	94	8.542	8.549	(0.930)	147712	2.50000	2.275
$	5 2-Chlorophenol-d4	132	8.812	8.820	(0.960)	165516	3.75000	3.449
	4 Bis(2-Chloroethyl)ether	93	8.720	8.719	(0.949)	100156	2.50000	2.239
	6 2-Chlorophenol	128	8.843	8.843	(0.963)	118199	2.50000	2.243
	7 1,3-Dichlorobenzene	146	9.122	9.121	(0.993)	125394	2.50000	2.244
*	8 1,4-Dichlorobenzene-d4	152	9.184	9.183	(1.000)	144333	4.00000	
	9 1,4-Dichlorobenzene	146	9.215	9.214	(1.003)	118264	2.50000	2.234
$	10 1,2-Dichlorobenzene-d4	152	9.548	9.548	(1.040)	72638	2.50000	2.214
	12 1,2-Dichlorobenzene	146	9.572	9.571	(1.042)	115678	2.50000	2.228
	11 Benzyl alcohol	108	9.448	9.447	(1.029)	65858	2.50000	2.278
	14 2,2'-oxybis(1-Chloropropane)	121	9.758	9.758	(1.063)	31485	2.50000	2.091(M)
	13 2-Methylphenol	108	9.673	9.672	(1.053)	108026	2.50000	2.290
	17 Hexachloroethane	117	10.177	10.177	(1.108)	43457	2.50000	2.232
	16 N-Nitroso-di-n-propylamine	70	10.014	10.014	(1.090)	66811	2.50000	2.324
	15 4-Methylphenol	108	9.944	9.944	(1.083)	112855	2.50000	2.267
$	18 Nitrobenzene-d5	82	10.278	10.285	(0.879)	102108	2.50000	2.272
	19 Nitrobenzene	77	10.317	10.316	(0.883)	99801	2.50000	2.236
	20 Isophorone	82	10.767	10.774	(0.921)	126119	2.50000	2.217
	21 2-Nitrophenol	139	10.953	10.953	(0.937)	59106	2.50000	2.132
	22 2,4-Dimethylphenol	107	11.000	10.999	(0.941)	210430	5.00000	4.517
	23 Bis(2-Chloroethoxy)methane	93	11.201	11.201	(0.958)	99507	2.50000	2.248
	24 Benzoic acid	105	11.155	11.201	(0.954)	205762	10.0000	7.144
	25 2,4-Dichlorophenol	162	11.403	11.410	(0.976)	173493	5.00000	4.418
	26 1,2,4-Trichlorobenzene	180	11.596	11.604	(0.992)	93766	2.50000	2.208
*	27 Naphthalene-d8	136	11.689	11.688	(1.000)	532256	4.00000	
	28 Naphthalene	128	11.728	11.735	(1.003)	290726	2.50000	2.220
	29 4-Chloroaniline	127	11.851	11.858	(1.014)	265464	5.00000	4.914
	30 Hexachlorobutadiene	225	12.098	12.098	(1.035)	46502	2.50000	2.207
	31 4-Chloro-3-methylphenol	107	12.810	12.818	(1.096)	171599	5.00000	4.630
	32 2-Methylnaphthalene	142	13.135	13.135	(1.124)	214202	2.50000	2.229
	33 Hexachlorocyclopentadiene	237	13.607	13.607	(0.888)	95170	5.00000	4.380

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.754	13.754	(0.897)	107791	5.00000	4.492
	35 2,4,5-Trichlorophenol	196	13.824	13.824	(0.902)	122944	5.00000	4.440
$	36 2-Fluorobiphenyl	172	13.917	13.916	(0.908)	215631	2.50000	2.231
	37 2-Chloronaphthalene	162	14.134	14.133	(0.922)	180247	2.50000	2.192
	38 2-Nitroaniline	65	14.381	14.389	(0.938)	102237	5.00000	4.729
	39 Dimethylphthalate	163	14.815	14.822	(0.967)	183572	2.50000	2.264
	40 Acenaphthylene	152	15.008	15.008	(0.979)	285739	2.50000	2.279
	41 2,6-Dinitrotoluene	165	14.954	14.954	(0.976)	84829	5.00000	4.636
*	42 Acenaphthene-d10	164	15.325	15.325	(1.000)	287473	4.00000	
	43 3-Nitroaniline	138	15.233	15.240	(0.994)	101865	5.00000	4.581
	44 Acenaphthene	153	15.387	15.394	(1.004)	171204	2.50000	2.202
	45 2,4-Dinitrophenol	184	15.449	15.456	(1.008)	111904	10.0000	7.089
	46 Dibenzofuran	168	15.720	15.719	(1.026)	256638	2.50000	2.201
	47 4-Nitrophenol	109	15.542	15.549	(1.014)	46049	5.00000	4.287
	48 2,4-Dinitrotoluene	165	15.758	15.765	(1.028)	115038	5.00000	4.583
	50 Diethylphthalate	149	16.276	16.283	(1.062)	265810	2.50000	2.412
	49 Fluorene	166	16.431	16.438	(1.072)	299180	2.50000	2.412
	51 4-Chlorophenyl-phenylether	204	16.423	16.423	(1.072)	140924	2.50000	2.320
	52 4-Nitroaniline	138	16.500	16.515	(1.077)	86874	5.00000	3.224
	53 4,6-Dinitro-2-methylphenol	198	16.608	16.615	(0.904)	170673	10.0000	8.585
	54 N-Nitrosodiphenylamine	169	16.670	16.669	(0.907)	178863	2.50000	2.241
$	55 2,4,6-Tribromophenol	330	16.963	16.970	(1.107)	44278	3.75000	3.235
	56 4-Bromophenyl-phenylether	248	17.425	17.433	(0.949)	66326	2.50000	2.195
	57 Hexachlorobenzene	284	17.750	17.749	(0.966)	71985	2.50000	2.171
	58 Pentachlorophenol	266	18.098	18.106	(0.985)	55930	5.00000	3.823
*	59 Phenanthrene-d10	188	18.369	18.376	(1.000)	465065	4.00000	
	60 Phenanthrene	178	18.416	18.423	(1.003)	265872	2.50000	2.193
	61 Anthracene	178	18.508	18.516	(1.008)	260860	2.50000	2.254
	62 Carbazole	167	18.833	18.841	(1.025)	249640	2.50000	2.231
	63 Di-n-butylphthalate	149	19.630	19.630	(1.069)	274468	2.50000	2.138
	64 Fluoranthene	202	20.798	20.806	(0.889)	285488	2.50000	2.209
	65 Pyrene	202	21.224	21.231	(0.907)	297779	2.50000	2.191
$	66 Terphenyl-d14	244	21.503	21.510	(0.919)	215936	2.50000	2.241
	67 Butylbenzylphthalate	149	22.424	22.423	(0.958)	109056	2.50000	2.113
	68 Benzo(a)anthracene	228	23.384	23.384	(0.999)	269372	2.50000	2.215
*	69 Chrysene-d12	240	23.407	23.415	(1.000)	401380	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.330	23.329	(0.997)	239454	7.50000	6.433
	71 Chrysene	228	23.454	23.461	(1.002)	249845	2.50000	2.175
	72 bis(2-Ethylhexyl)phthalate	149	23.446	23.446	(0.959)	152428	2.50000	2.476
*	134 Di-n-octylphthalate-d4	153	24.437	24.437	(1.000)	554407	4.00000	
	73 Di-n-octylphthalate	149	24.445	24.452	(1.000)	299821	2.50000	2.253
	74 Benzo(b)fluoranthene	252	25.304	25.311	(0.969)	257530	2.50000	2.225
	75 Benzo(k)fluoranthene	252	25.350	25.358	(0.971)	254506	2.50000	2.161
	76 Benzo(a)pyrene	252	25.978	25.985	(0.995)	213449	2.50000	2.219
*	77 Perylene-d12	264	26.102	26.101	(1.000)	368275	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	28.854	28.869	(1.105)	247263	2.50000	2.261
	79 Dibenzo(a,h)anthracene	278	28.861	28.876	(1.106)	206345	2.50000	2.220
	80 Benzo(g,h,i)perylene	276	29.669	29.684	(1.137)	205907	2.50000	2.247
	90 N-Nitrosodimethylamine	74	4.749	4.749	(0.517)	150851	5.00000	4.737
	91 Aniline	93	8.627	8.634	(0.939)	287314	5.00000	4.544
	93 Benzidine	184	21.023	21.030	(0.898)	194169	5.00000	3.890
	103 Pyridine	79	4.788	4.780	(0.521)	243179	2.50000	2.403
	105 1-methylnaphthalene	142	13.360	13.359	(1.143)	206159	2.50000	2.233
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.747	16.746	(1.093)	251361	2.50000	2.355

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.350	25.358	(0.971)	490350	5.00000	4.382
120 2,3,4,6-Tetrachlorophenol	232	16.052	16.051	(1.047)	43442	2.50000	2.112

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123007.D
Lab Smp Id: SKL0355-CAL4
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Misc Info:

Calibration Date: 30-DEC-2022
Calibration Time: 08:06
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	151013	75507	302026	144333	-4.42
27 Naphthalene-d8	553510	276755	1107020	532256	-3.84
42 Acenaphthene-d10	305411	152706	610822	287473	-5.87
59 Phenanthrene-d10	491708	245854	983416	465065	-5.42
69 Chrysene-d12	424740	212370	849480	401380	-5.50
134 Di-n-octylphthala	684951	342476	1369902	554407	-19.06
77 Perylene-d12	395150	197575	790300	368275	-6.80

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.18	8.68	9.68	9.18	0.00
27 Naphthalene-d8	11.69	11.19	12.19	11.69	0.00
42 Acenaphthene-d10	15.33	14.83	15.83	15.33	0.00
59 Phenanthrene-d10	18.38	17.88	18.88	18.37	-0.04
69 Chrysene-d12	23.42	22.92	23.92	23.41	-0.03
134 Di-n-octylphthala	24.44	23.94	24.94	24.44	0.00
77 Perylene-d12	26.10	25.60	26.60	26.10	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123007.D

Lab ID: SKL0355-CAL4
nt14.i, 20221230.b\ABN.m,   30-DEC-2022 11:07

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

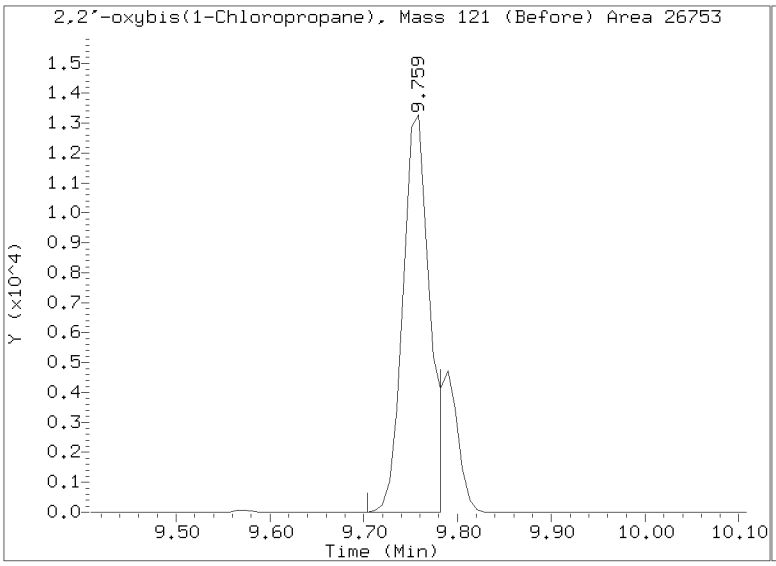
RRT check based on Ccal File: NT1422123002.D

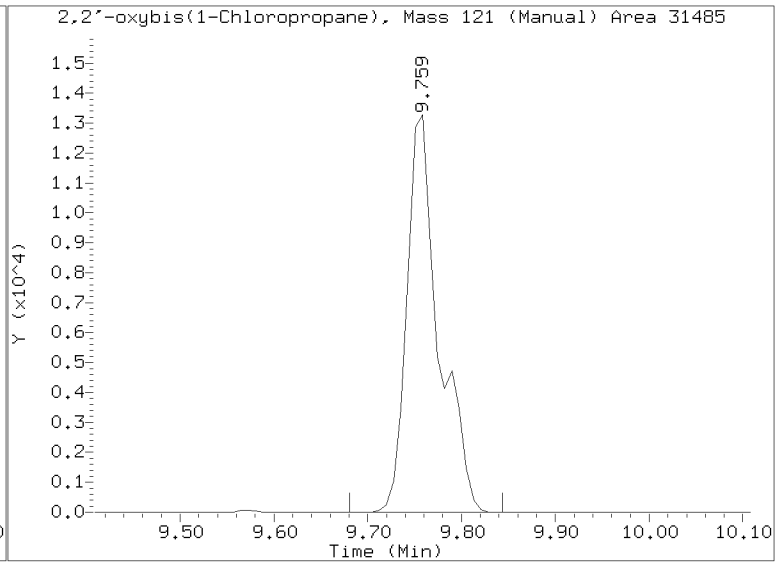
On Column LOD for nt14.i, 20221230.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230.b/NT1422123007.D
Injection Date: 30-DEC-2022 11:07
Lab ID:SKL0355-CAL4 Client ID:
Report Date: 01/04/2023 08:10





Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123008.D

Page 1

Date : 30-DEC-2022 11:43

Client ID:

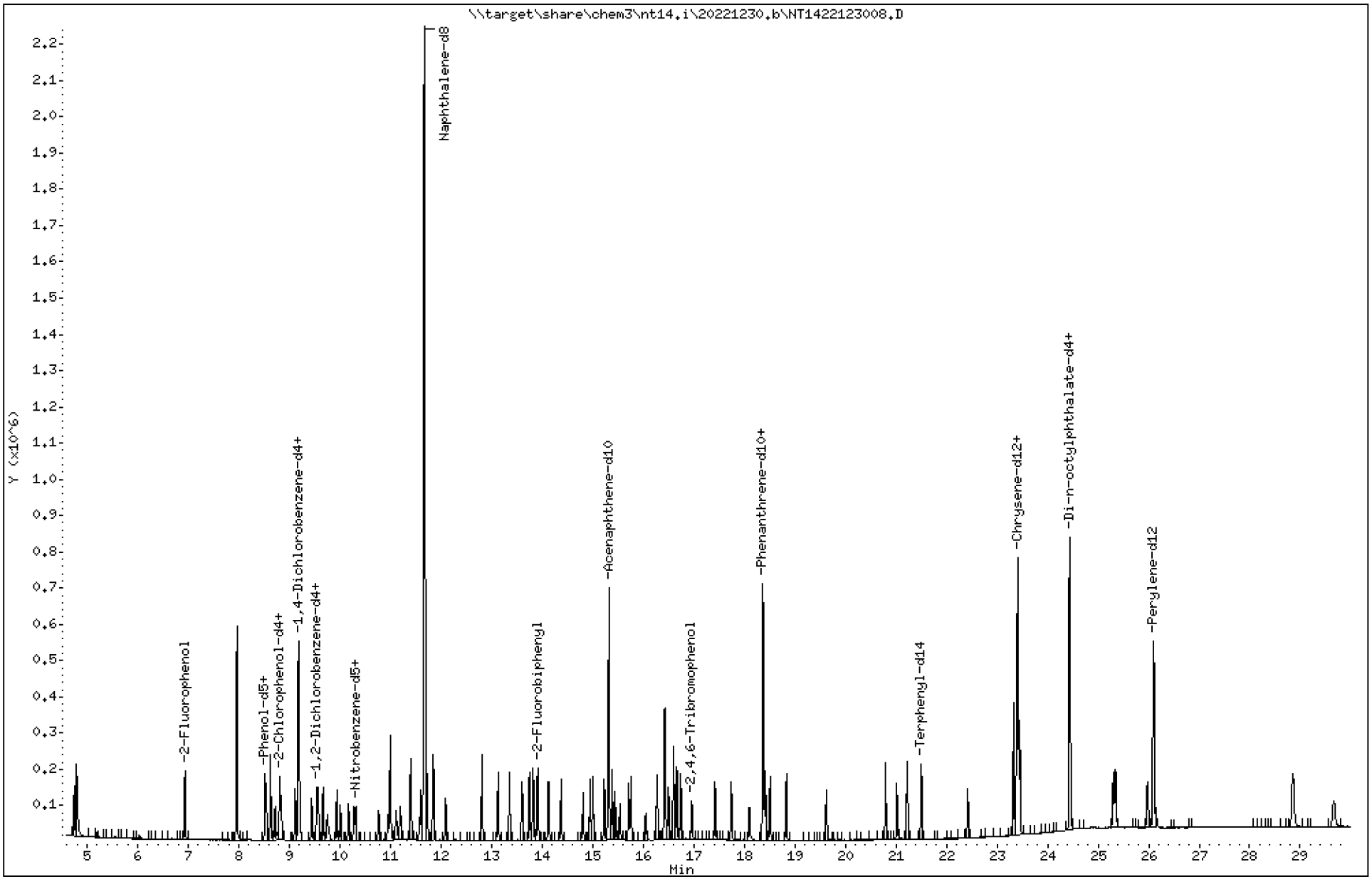
Instrument: nt14.i

Sample Info: SKL0355-CAL3

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230.b\NT1422123008.D
Lab Smp Id: SKL0355-CAL3
Inj Date : 30-DEC-2022 11:43 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-CAL3
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Meth Date : 04-Jan-2023 08:09 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.935	6.934	(0.755)	78205	1.50000	1.648
$	2 Phenol-d5	99	8.519	8.526	(0.928)	93624	1.50000	1.597
	3 Phenol	94	8.542	8.549	(0.930)	65367	1.00000	0.9812
$	5 2-Chlorophenol-d4	132	8.812	8.820	(0.960)	79375	1.50000	1.612
	4 Bis(2-Chloroethyl)ether	93	8.720	8.719	(0.949)	49691	1.00000	1.083
	6 2-Chlorophenol	128	8.843	8.843	(0.963)	52602	1.00000	0.9727
	7 1,3-Dichlorobenzene	146	9.122	9.121	(0.993)	62056	1.00000	1.082
*	8 1,4-Dichlorobenzene-d4	152	9.184	9.183	(1.000)	148086	4.00000	
	9 1,4-Dichlorobenzene	146	9.215	9.214	(1.003)	58942	1.00000	1.085
$	10 1,2-Dichlorobenzene-d4	152	9.548	9.548	(1.040)	36481	1.00000	1.084
	12 1,2-Dichlorobenzene	146	9.572	9.571	(1.042)	57726	1.00000	1.083
	11 Benzyl alcohol	108	9.447	9.447	(1.029)	28898	1.00000	0.9744
	14 2,2'-oxybis(1-Chloropropane)	121	9.758	9.758	(1.063)	16940	1.00000	1.097(M)
	13 2-Methylphenol	108	9.673	9.672	(1.053)	47025	1.00000	0.9714
	17 Hexachloroethane	117	10.177	10.177	(1.108)	20867	1.00000	1.044
	16 N-Nitroso-di-n-propylamine	70	10.014	10.014	(1.090)	31671	1.00000	1.074
	15 4-Methylphenol	108	9.937	9.944	(1.082)	49597	1.00000	0.9712
$	18 Nitrobenzene-d5	82	10.278	10.285	(0.879)	48318	1.00000	1.025
	19 Nitrobenzene	77	10.317	10.316	(0.883)	48198	1.00000	1.029
	20 Isophorone	82	10.767	10.774	(0.921)	57818	1.00000	0.9688
	21 2-Nitrophenol	139	10.953	10.953	(0.937)	24295	1.00000	0.8448
	22 2,4-Dimethylphenol	107	11.000	10.999	(0.941)	93194	2.00000	1.907
	23 Bis(2-Chloroethoxy)methane	93	11.201	11.201	(0.958)	49325	1.00000	1.062
	24 Benzoic acid	105	11.116	11.201	(0.951)	45663	4.00000	1.530
	25 2,4-Dichlorophenol	162	11.403	11.410	(0.976)	83681	2.00000	2.031
	26 1,2,4-Trichlorobenzene	180	11.604	11.604	(0.993)	46779	1.00000	1.050
*	27 Naphthalene-d8	136	11.689	11.688	(1.000)	558364	4.00000	
	28 Naphthalene	128	11.727	11.735	(1.003)	144433	1.00000	1.051
	29 4-Chloroaniline	127	11.851	11.858	(1.014)	115985	2.00000	2.047
	30 Hexachlorobutadiene	225	12.098	12.098	(1.035)	22515	1.00000	1.019
	31 4-Chloro-3-methylphenol	107	12.810	12.818	(1.096)	72624	2.00000	1.868
	32 2-Methylnaphthalene	142	13.135	13.135	(1.124)	97694	1.00000	0.9692
	33 Hexachlorocyclopentadiene	237	13.607	13.607	(0.888)	42360	2.00000	1.942

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.754	13.754	(0.897)	43504	2.00000	1.807
	35 2,4,5-Trichlorophenol	196	13.824	13.824	(0.902)	51619	2.00000	1.857
$	36 2-Fluorobiphenyl	172	13.917	13.916	(0.908)	105958	1.00000	1.092
	37 2-Chloronaphthalene	162	14.134	14.133	(0.922)	88589	1.00000	1.073
	38 2-Nitroaniline	65	14.381	14.389	(0.938)	44387	2.00000	2.046
	39 Dimethylphthalate	163	14.815	14.822	(0.967)	89258	1.00000	1.097
	40 Acenaphthylene	152	15.008	15.008	(0.979)	136964	1.00000	1.088
	41 2,6-Dinitrotoluene	165	14.954	14.954	(0.976)	38770	2.00000	2.111
*	42 Acenaphthene-d10	164	15.325	15.325	(1.000)	288519	4.00000	
	43 3-Nitroaniline	138	15.233	15.240	(0.994)	45911	2.00000	2.057
	44 Acenaphthene	153	15.387	15.394	(1.004)	83612	1.00000	1.071
	45 2,4-Dinitrophenol	184	15.441	15.456	(1.008)	33764	4.00000	2.155
	46 Dibenzofuran	168	15.712	15.719	(1.025)	117782	1.00000	1.006
	47 4-Nitrophenol	109	15.542	15.549	(1.014)	17409	2.00000	1.625
	48 2,4-Dinitrotoluene	165	15.758	15.765	(1.028)	52556	2.00000	2.086
	50 Diethylphthalate	149	16.276	16.283	(1.062)	126707	1.00000	1.146
	49 Fluorene	166	16.431	16.438	(1.072)	129205	1.00000	1.038
	51 4-Chlorophenyl-phenylether	204	16.423	16.423	(1.072)	69344	1.00000	1.138
	52 4-Nitroaniline	138	16.500	16.515	(1.077)	42776	2.00000	1.588
	53 4,6-Dinitro-2-methylphenol	198	16.600	16.615	(0.904)	64046	4.00000	3.211
	54 N-Nitrosodiphenylamine	169	16.662	16.669	(0.907)	88399	1.00000	1.091
$	55 2,4,6-Tribromophenol	330	16.963	16.970	(1.107)	19272	1.50000	1.417
	56 4-Bromophenyl-phenylether	248	17.425	17.433	(0.949)	31852	1.00000	1.038
	57 Hexachlorobenzene	284	17.750	17.749	(0.966)	36353	1.00000	1.080
	58 Pentachlorophenol	266	18.106	18.106	(0.986)	18807	2.00000	1.283
*	59 Phenanthrene-d10	188	18.369	18.376	(1.000)	472142	4.00000	
	60 Phenanthrene	178	18.416	18.423	(1.003)	132224	1.00000	1.074
	61 Anthracene	178	18.508	18.516	(1.008)	123375	1.00000	1.050
	62 Carbazole	167	18.833	18.841	(1.025)	121783	1.00000	1.072
	63 Di-n-butylphthalate	149	19.630	19.630	(1.069)	117464	1.00000	0.9106
	64 Fluoranthene	202	20.798	20.806	(0.889)	133546	1.00000	1.051
	65 Pyrene	202	21.224	21.231	(0.907)	140647	1.00000	1.052
$	66 Terphenyl-d14	244	21.503	21.510	(0.919)	104935	1.00000	1.107
	67 Butylbenzylphthalate	149	22.424	22.423	(0.958)	44722	1.00000	0.8852
	68 Benzo(a)anthracene	228	23.384	23.384	(0.999)	126915	1.00000	1.061
*	69 Chrysene-d12	240	23.407	23.415	(1.000)	394732	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.330	23.329	(0.997)	116096	3.00000	3.172
	71 Chrysene	228	23.454	23.461	(1.002)	119934	1.00000	1.062
	72 bis(2-Ethylhexyl)phthalate	149	23.446	23.446	(0.959)	62196	1.00000	1.063
*	134 Di-n-octylphthalate-d4	153	24.437	24.437	(1.000)	526757	4.00000	
	73 Di-n-octylphthalate	149	24.445	24.452	(1.000)	139891	1.00000	1.106
	74 Benzo(b)fluoranthene	252	25.304	25.311	(0.969)	122221	1.00000	1.050
	75 Benzo(k)fluoranthene	252	25.343	25.358	(0.971)	118692	1.00000	1.002
	76 Benzo(a)pyrene	252	25.978	25.985	(0.995)	96768	1.00000	0.9998
*	77 Perylene-d12	264	26.102	26.101	(1.000)	370479	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	28.854	28.869	(1.105)	112553	1.00000	1.023
	79 Dibenzo(a,h)anthracene	278	28.861	28.876	(1.106)	95101	1.00000	1.017
	80 Benzo(g,h,i)perylene	276	29.661	29.684	(1.136)	94498	1.00000	1.025
	90 N-Nitrosodimethylamine	74	4.749	4.749	(0.517)	72560	2.00000	2.221
	91 Aniline	93	8.627	8.634	(0.939)	135629	2.00000	2.091
	93 Benzidine	184	21.023	21.030	(0.898)	95074	2.00000	1.953
	103 Pyridine	79	4.796	4.780	(0.522)	120877	1.00000	1.164
	105 1-methylnaphthalene	142	13.360	13.359	(1.143)	93920	1.00000	0.9698
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.747	16.746	(1.093)	119515	1.00000	1.115

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.304	25.358	(0.969)	230465	2.00000	2.047
120 2,3,4,6-Tetrachlorophenol	232	16.052	16.051	(1.047)	16275	1.00000	0.7969

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123008.D
Lab Smp Id: SKL0355-CAL3
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Misc Info:

Calibration Date: 30-DEC-2022
Calibration Time: 08:06
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	151013	75507	302026	148086	-1.94
27 Naphthalene-d8	553510	276755	1107020	558364	0.88
42 Acenaphthene-d10	305411	152706	610822	288519	-5.53
59 Phenanthrene-d10	491708	245854	983416	472142	-3.98
69 Chrysene-d12	424740	212370	849480	394732	-7.07
134 Di-n-octylphthala	684951	342476	1369902	526757	-23.10
77 Perylene-d12	395150	197575	790300	370479	-6.24

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.18	8.68	9.68	9.18	0.00
27 Naphthalene-d8	11.69	11.19	12.19	11.69	0.00
42 Acenaphthene-d10	15.33	14.83	15.83	15.33	0.00
59 Phenanthrene-d10	18.38	17.88	18.88	18.37	-0.04
69 Chrysene-d12	23.42	22.92	23.92	23.41	-0.03
134 Di-n-octylphthala	24.44	23.94	24.94	24.44	0.00
77 Perylene-d12	26.10	25.60	26.60	26.10	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123008.D

Lab ID: SKL0355-CAL3
nt14.i, 20221230.b\ABN.m,   30-DEC-2022 11:43

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.951	0.958	-0.0073	Benzoic acid

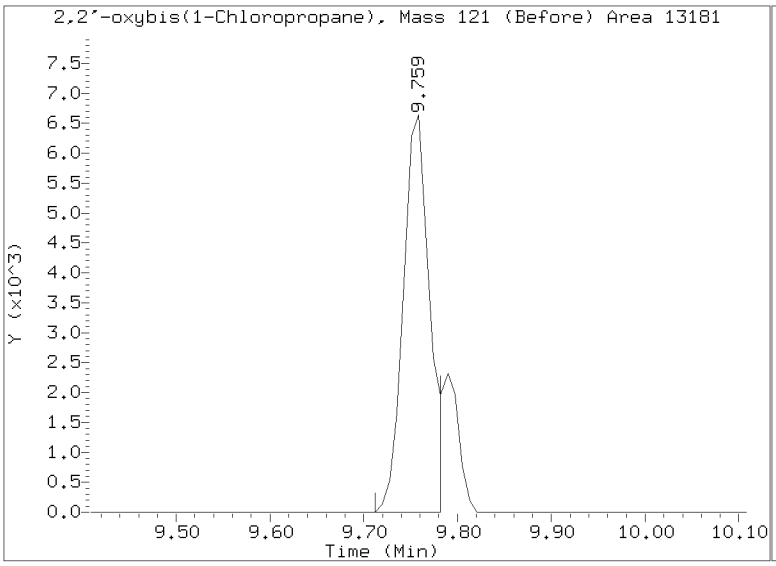
RRT check based on Ccal File: NT1422123002.D

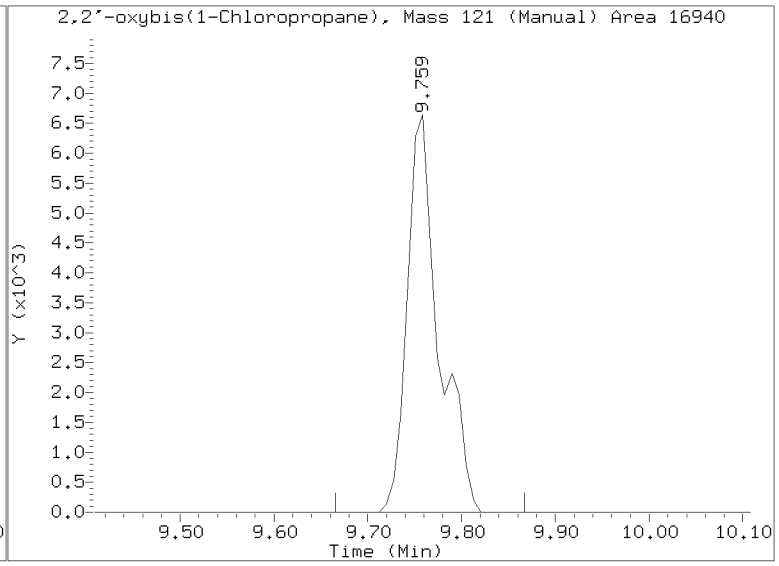
On Column LOD for nt14.i, 20221230.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230.b/NT1422123008.D
Injection Date: 30-DEC-2022 11:43
Lab ID:SKL0355-CAL3 Client ID:
Report Date: 01/04/2023 08:10





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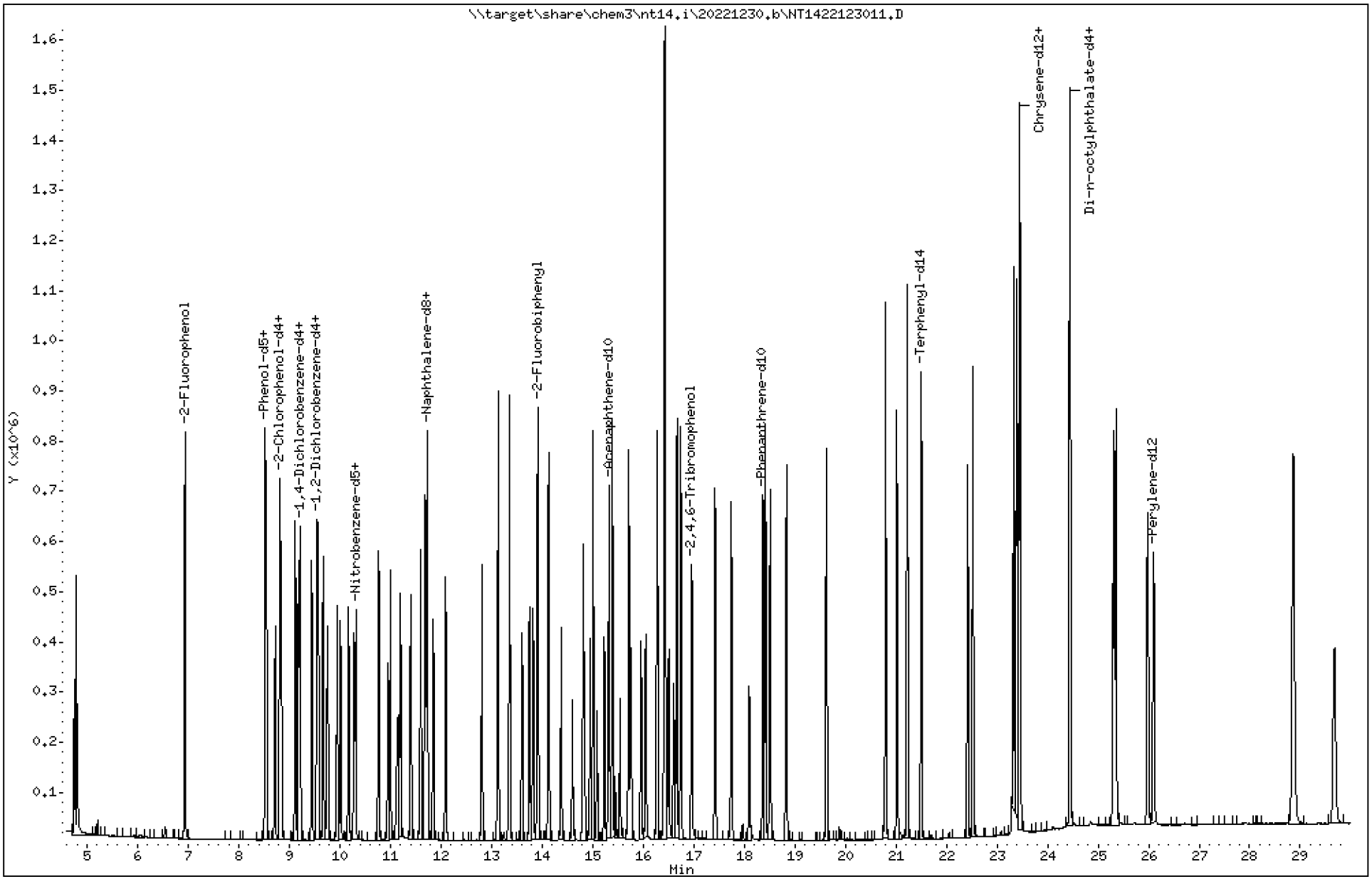
Date : 30-DEC-2022 13:31
Client ID:
Sample Info: SKL0355-SCV1

Column phase: ZB-5msi

Instrument: nt14.i

Operator: VTS
Column diameter: 0.25



Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123011.D

Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

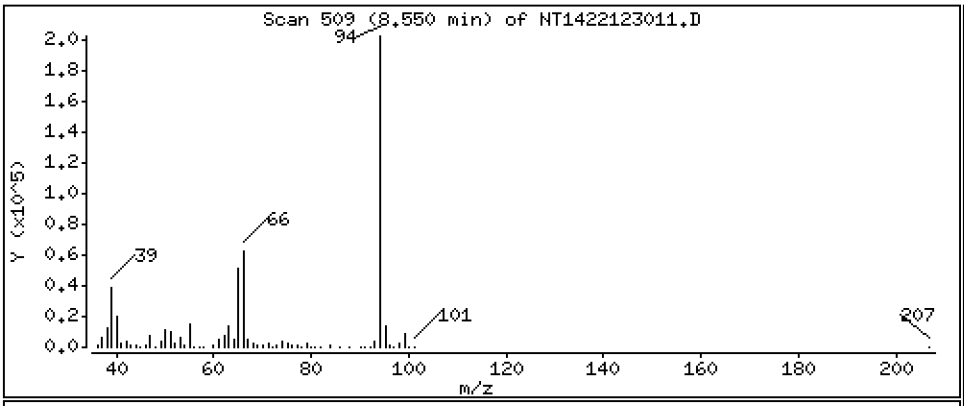
Operator: VTS

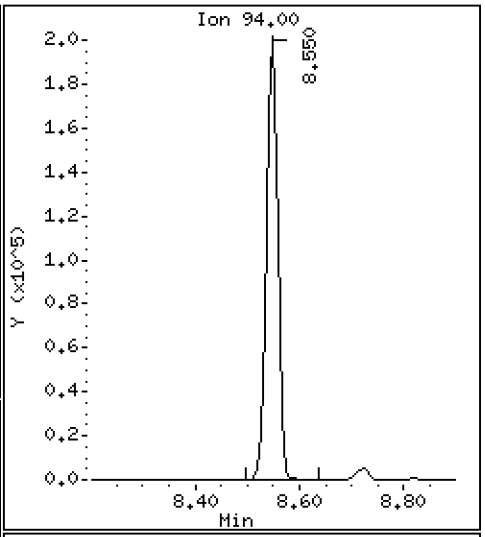
Column phase: ZB-5msi

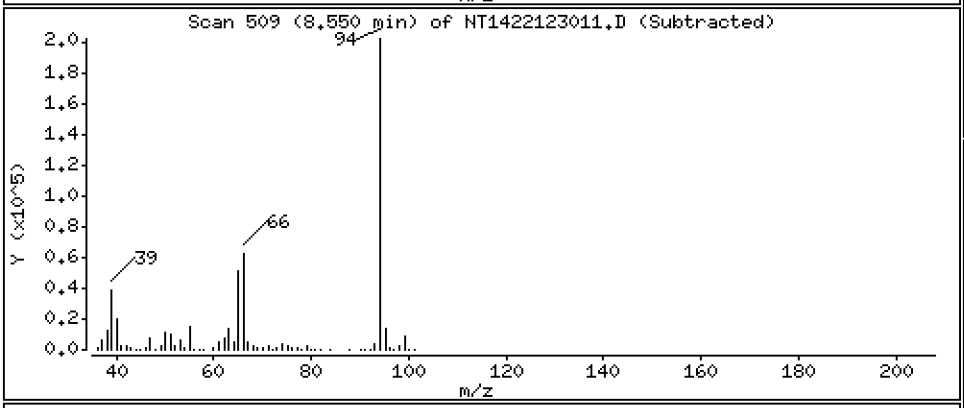
Column diameter: 0.25

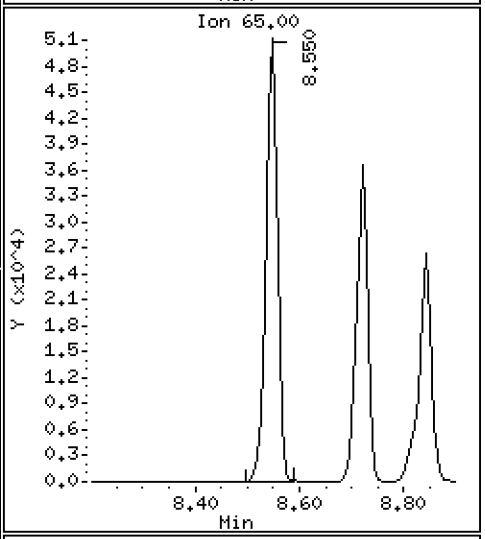
3 Phenol

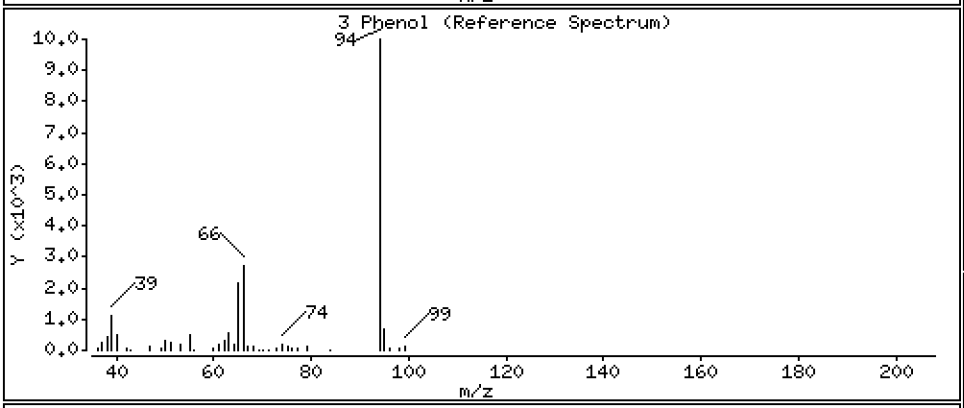
Concentration: 4.351 ug/mL

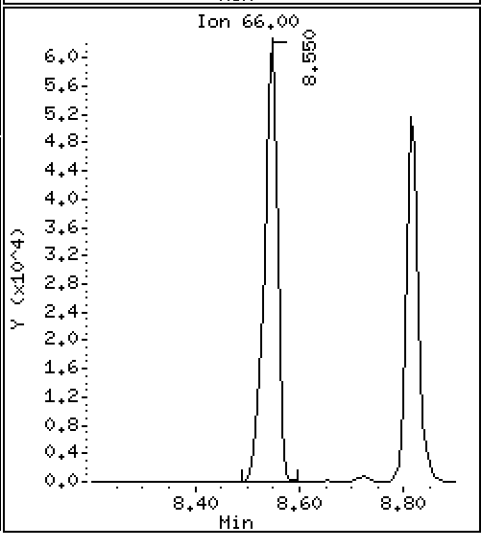


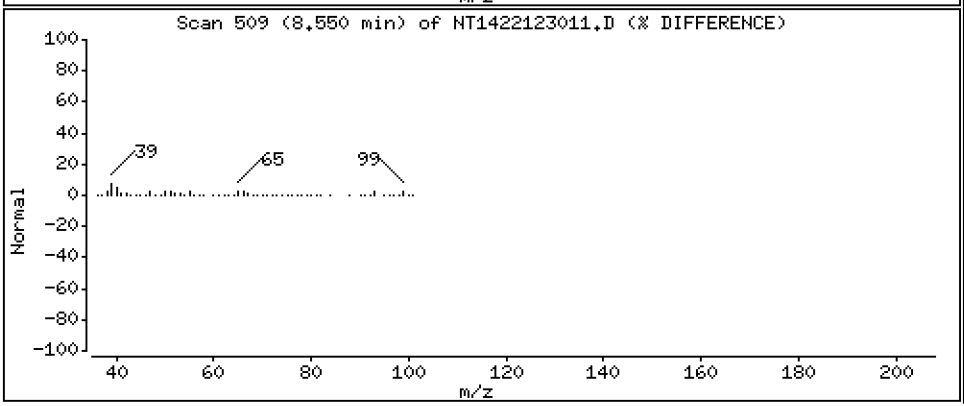












Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123011.D

Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

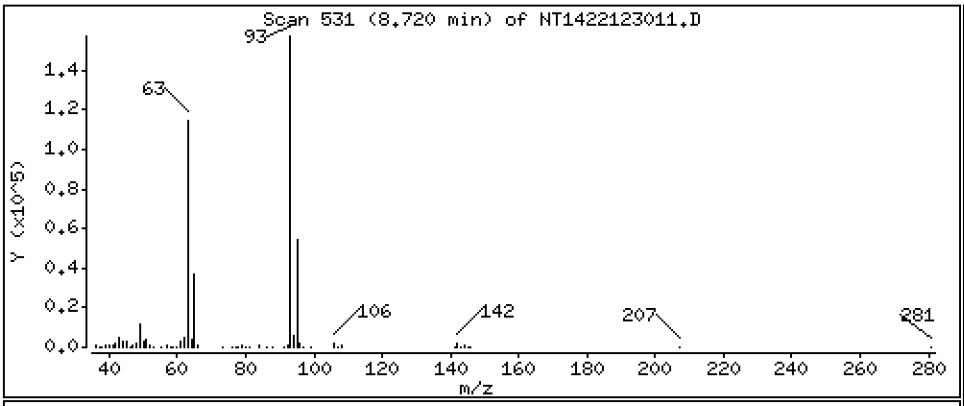
Operator: VTS

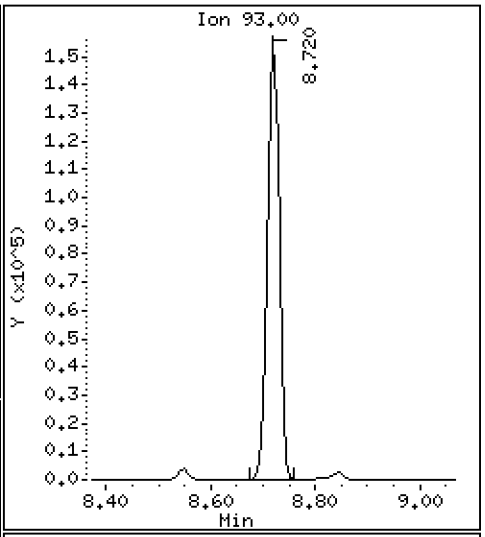
Column phase: ZB-5msi

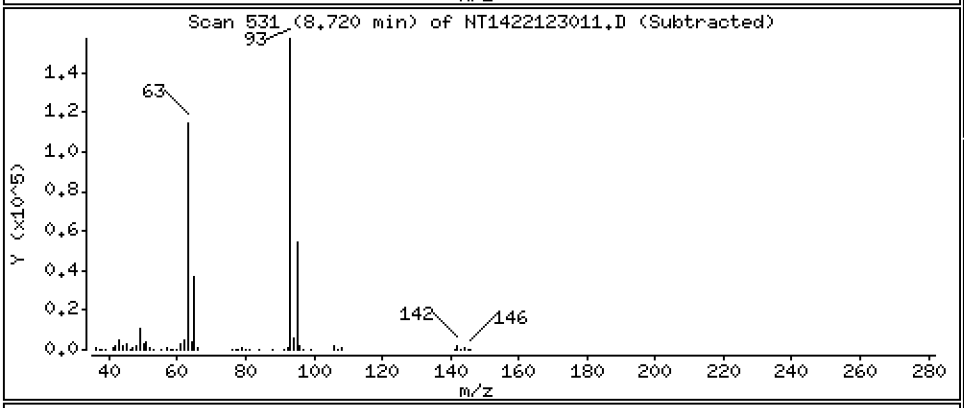
Column diameter: 0.25

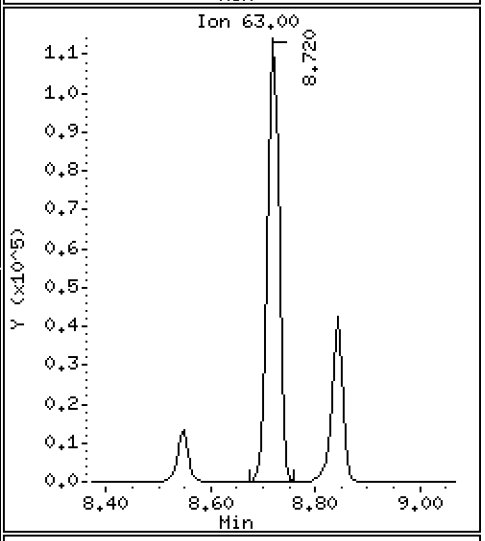
4 Bis(2-Chloroethyl)ether

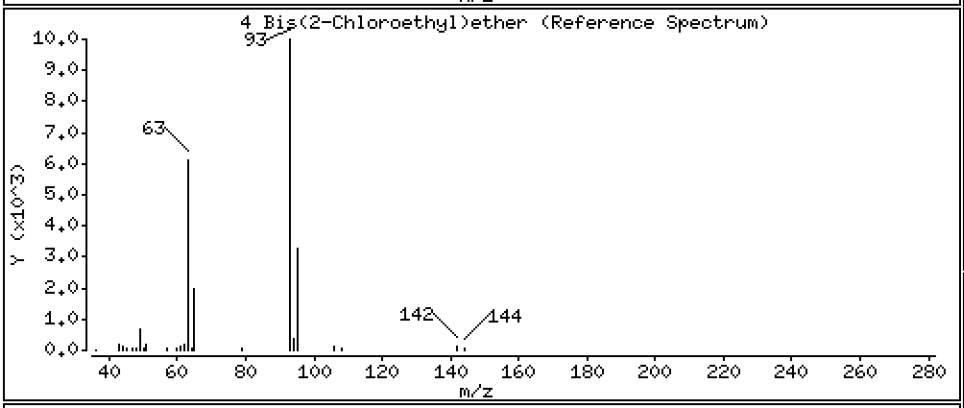
Concentration: 5.095 ug/mL

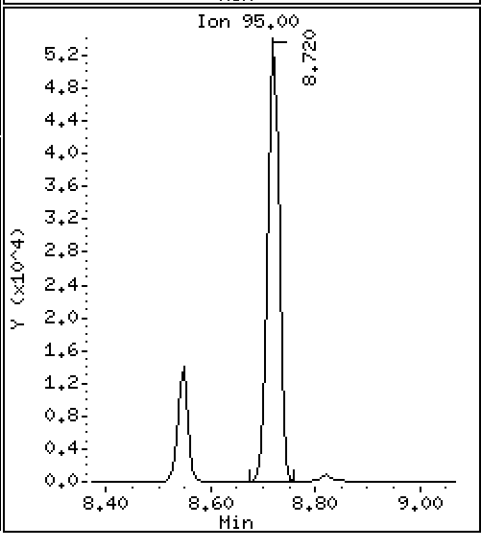


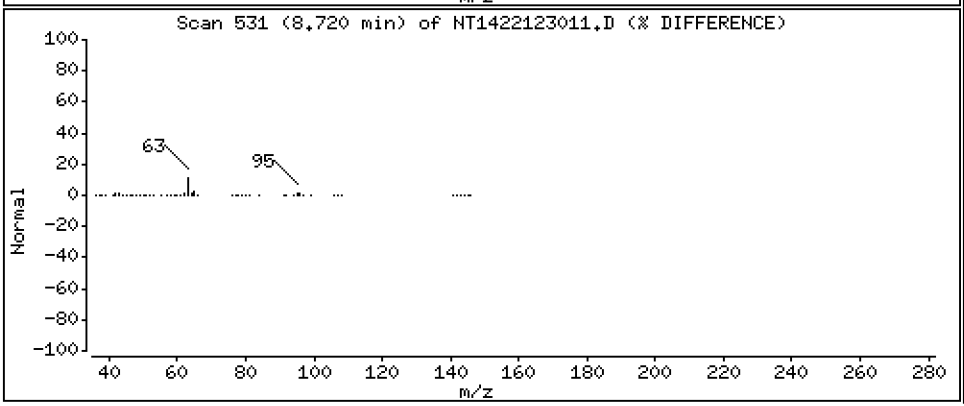












Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123011.D

Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

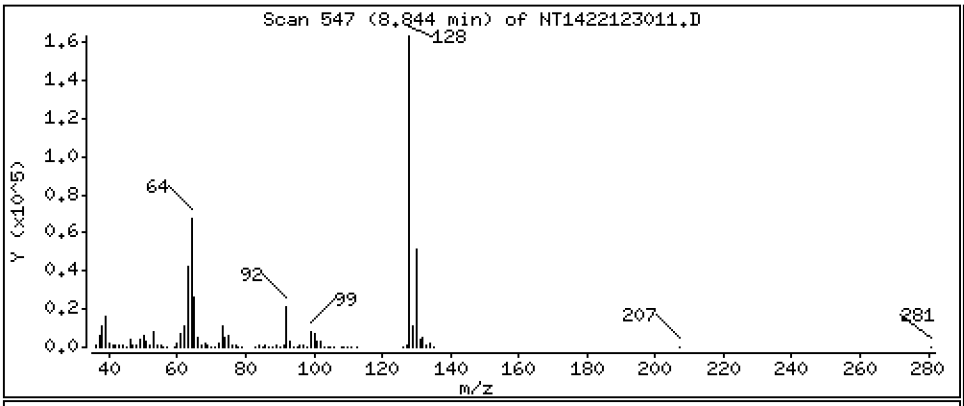
Operator: VTS

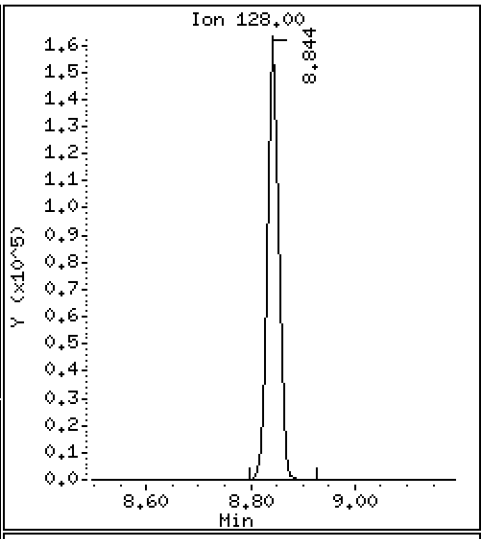
Column phase: ZB-5msi

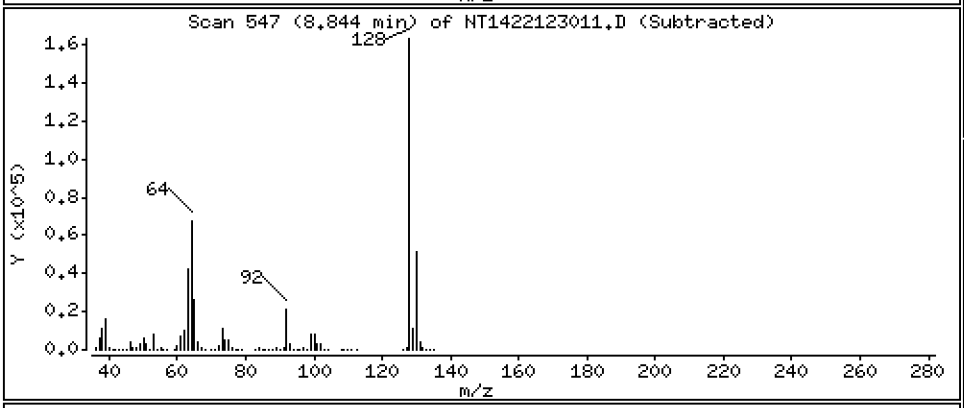
Column diameter: 0.25

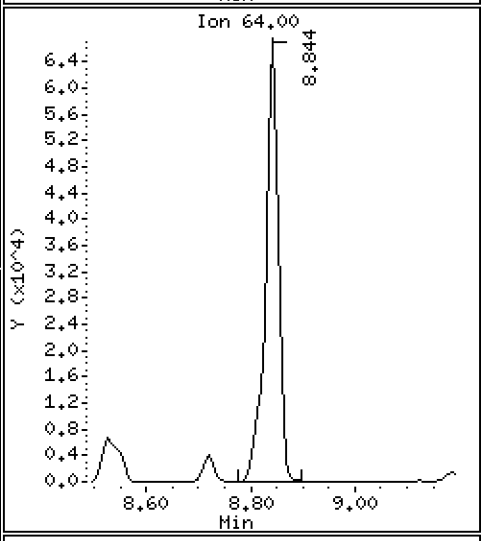
6 2-Chlorophenol

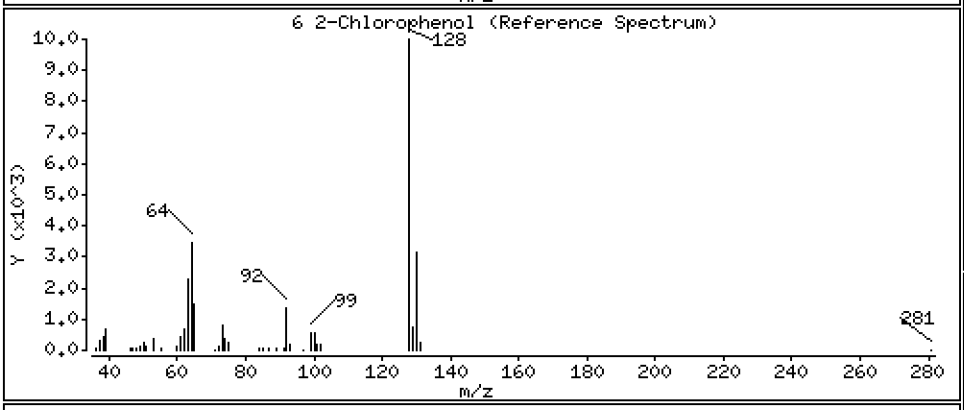
Concentration: 4.461 ug/mL

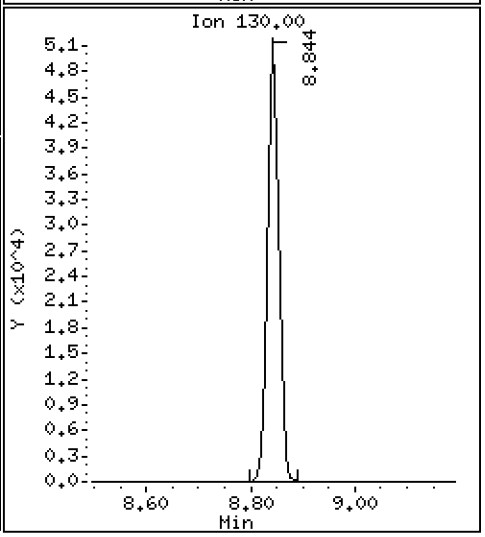


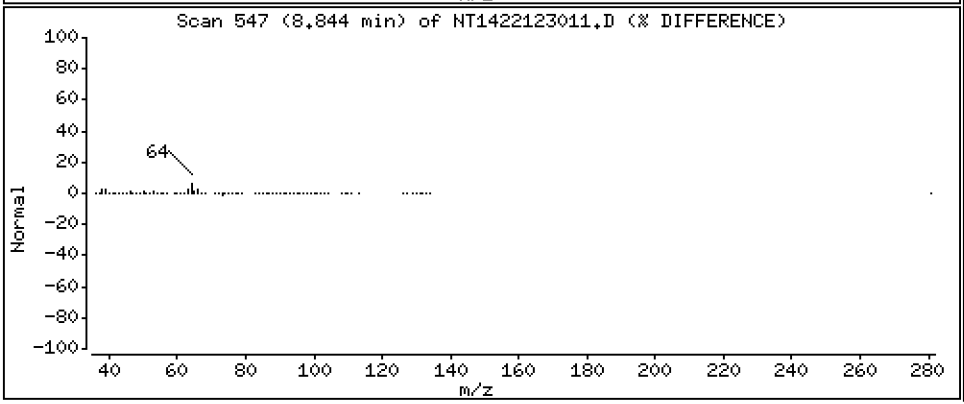












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

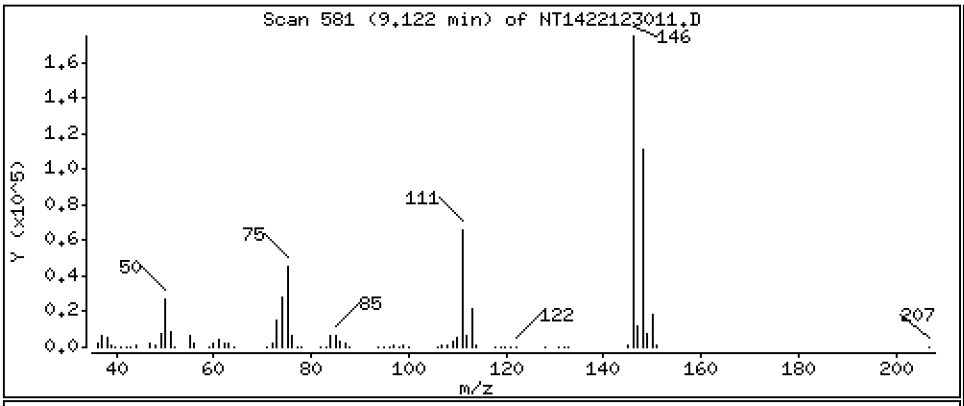
Operator: VTS

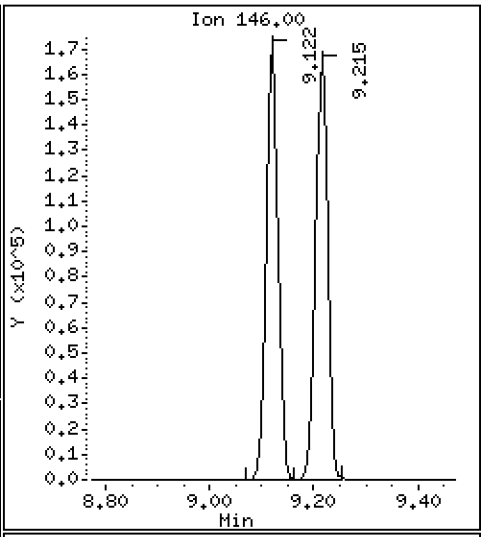
Column phase: ZB-5msi

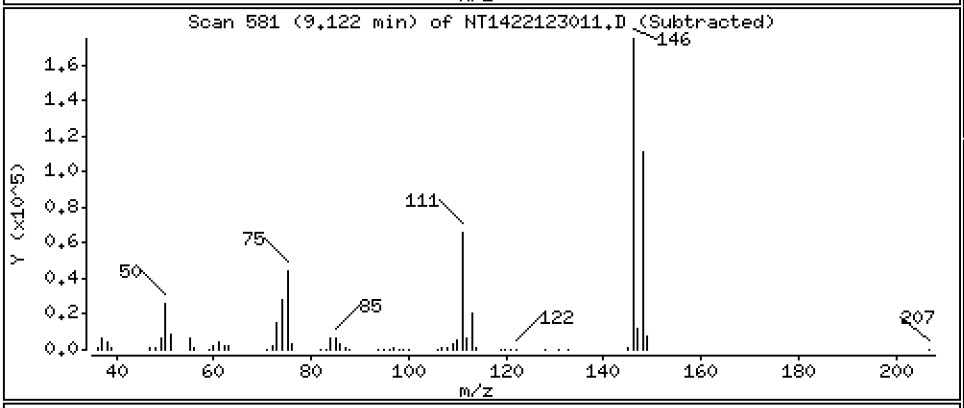
Column diameter: 0.25

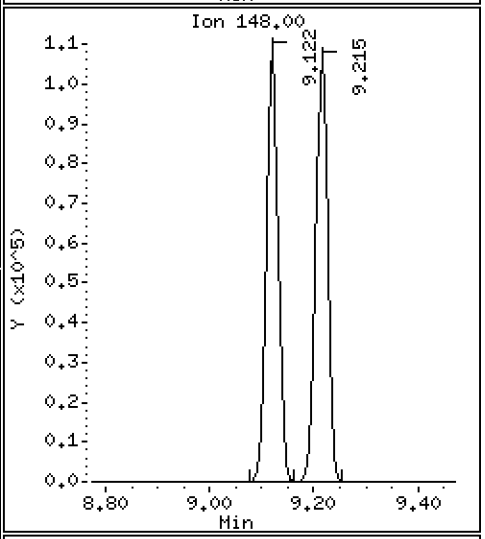
7 1,3-Dichlorobenzene

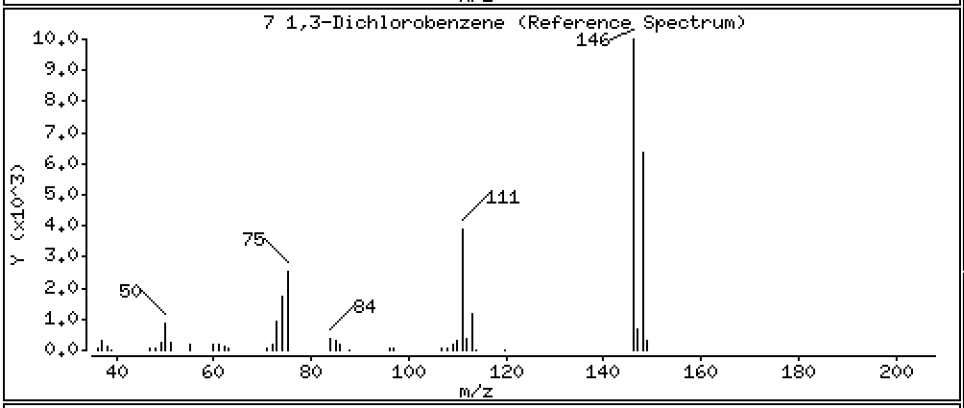
Concentration: 4.754 ug/mL

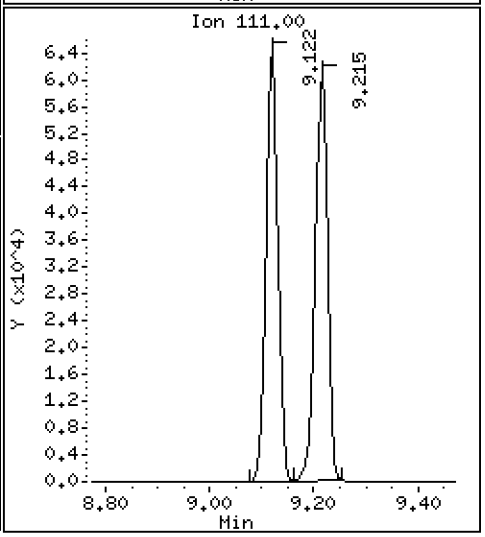


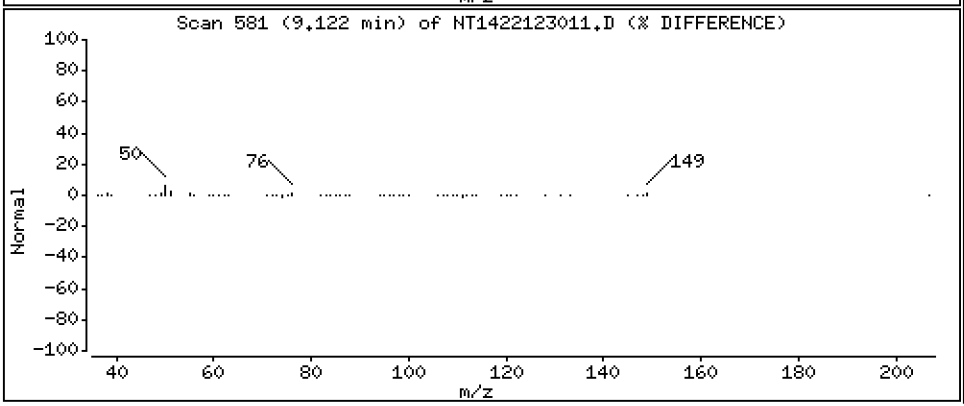












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

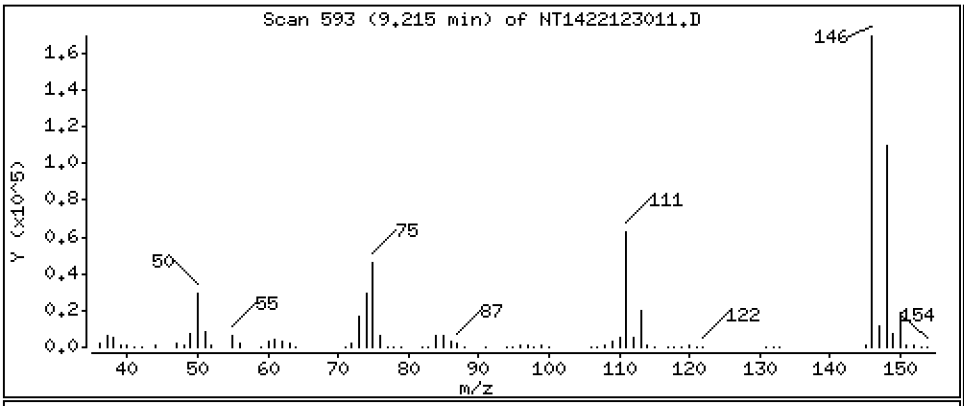
Operator: VTS

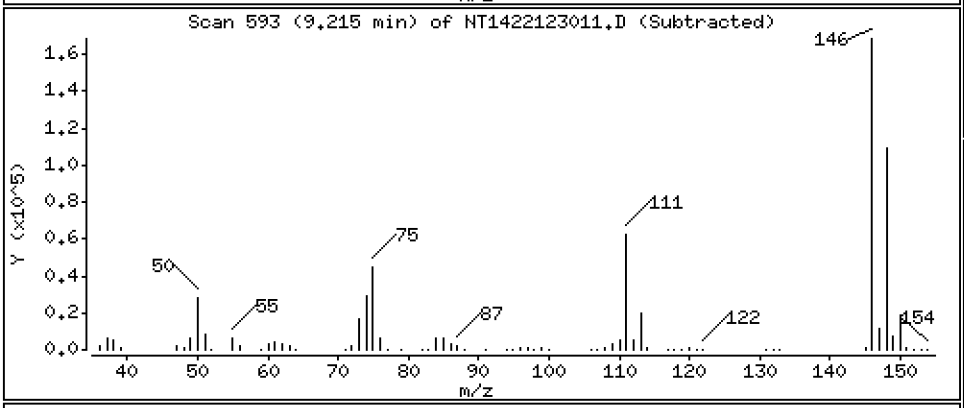
Column phase: ZB-5msi

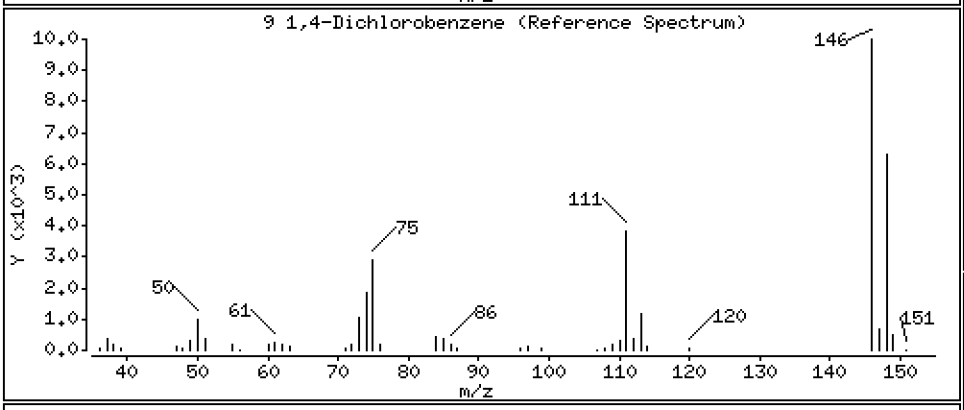
Column diameter: 0.25

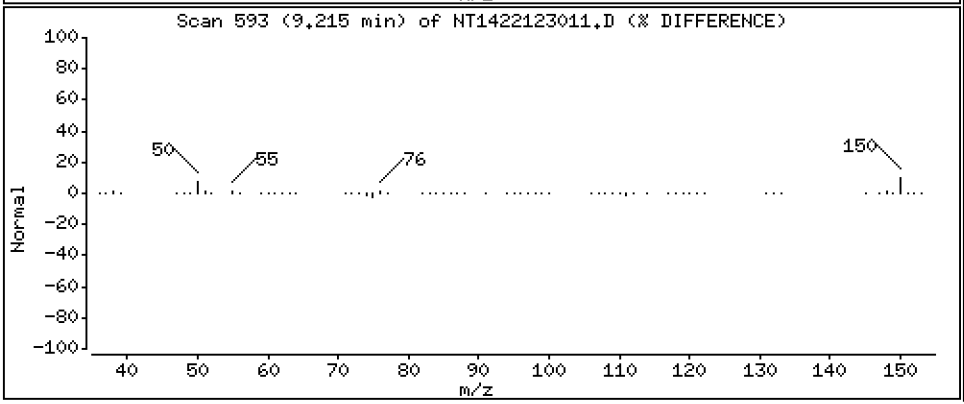
9 1,4-Dichlorobenzene

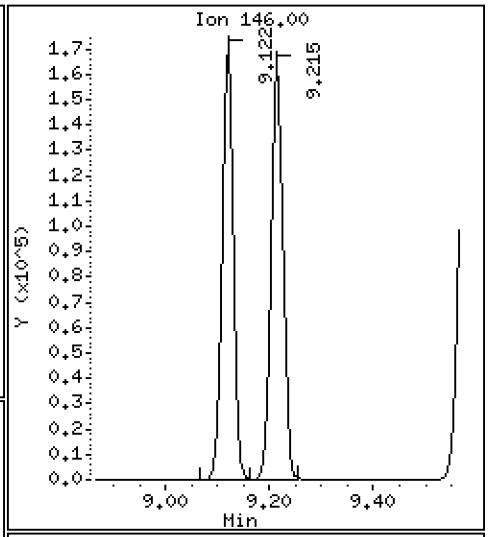
Concentration: 4.773 ug/mL

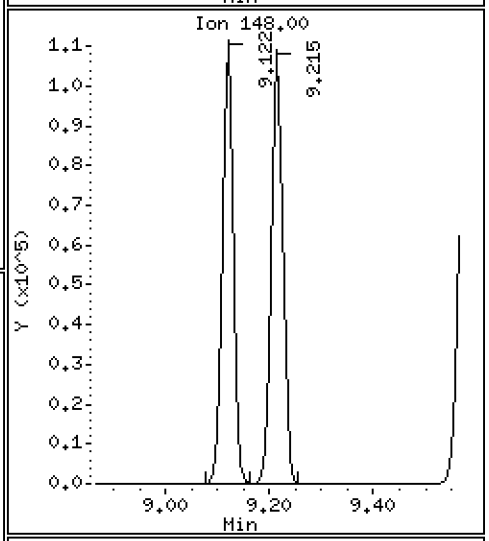


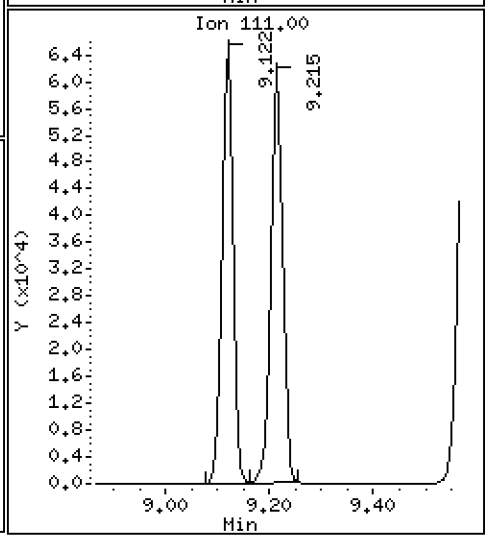












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

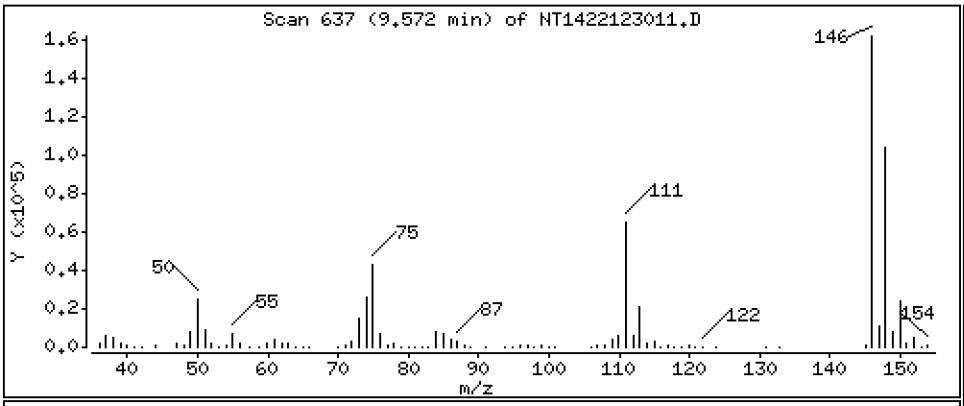
Operator: VTS

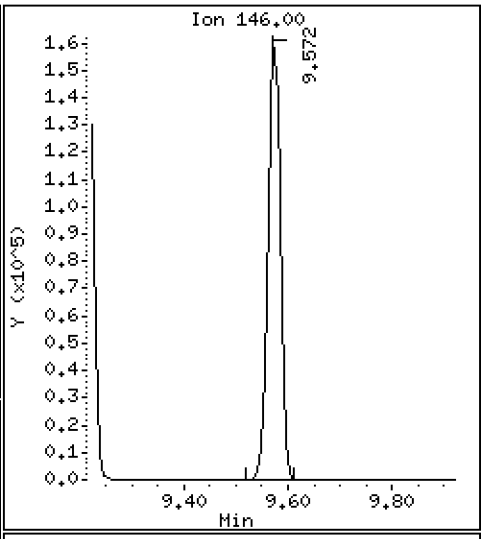
Column phase: ZB-5msi

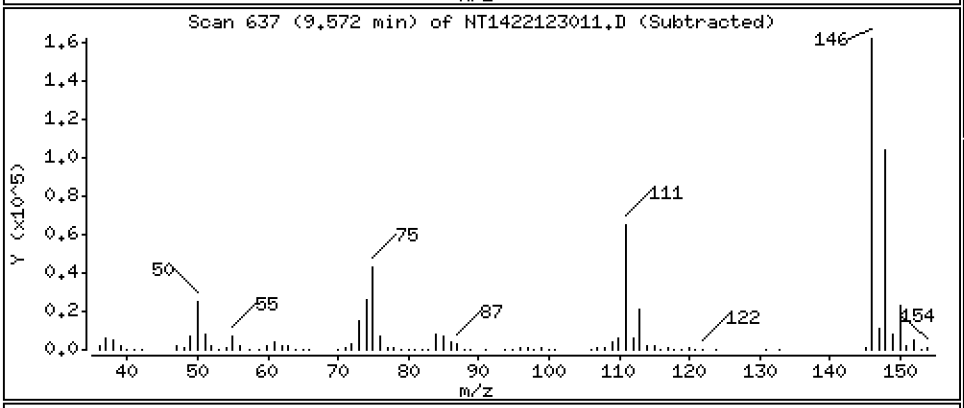
Column diameter: 0.25

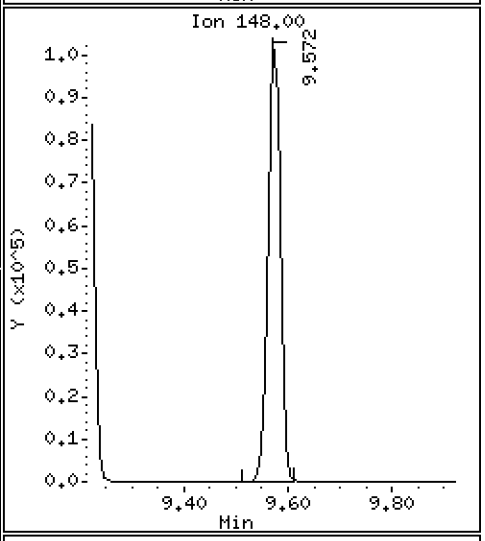
12 1,2-Dichlorobenzene

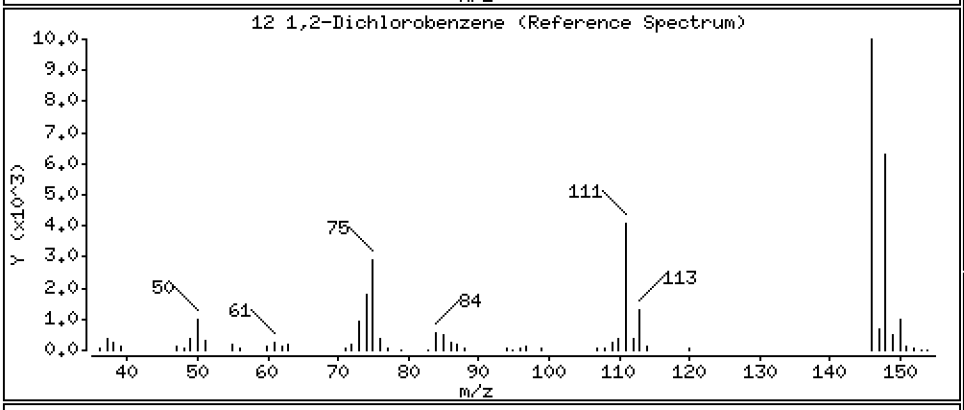
Concentration: 4.767 ug/mL

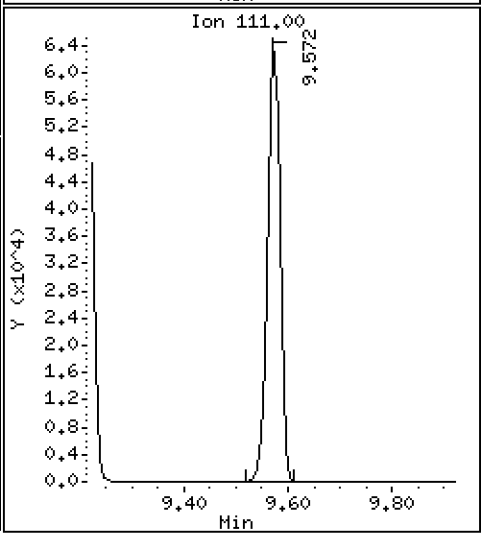


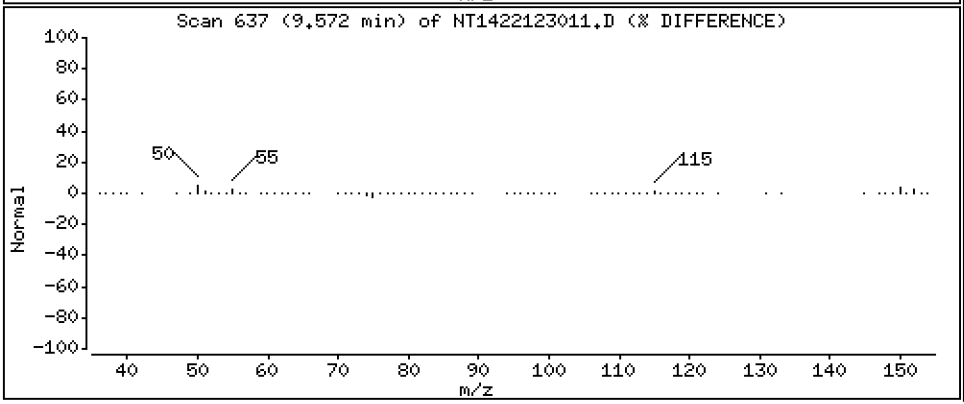












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

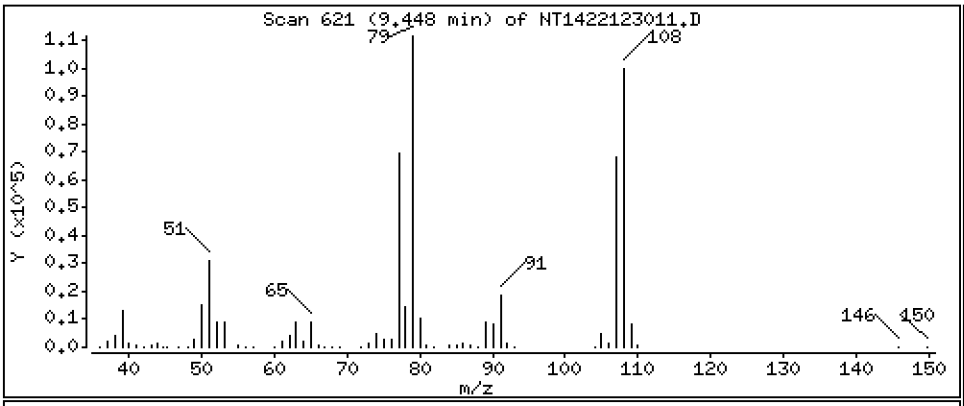
Operator: VTS

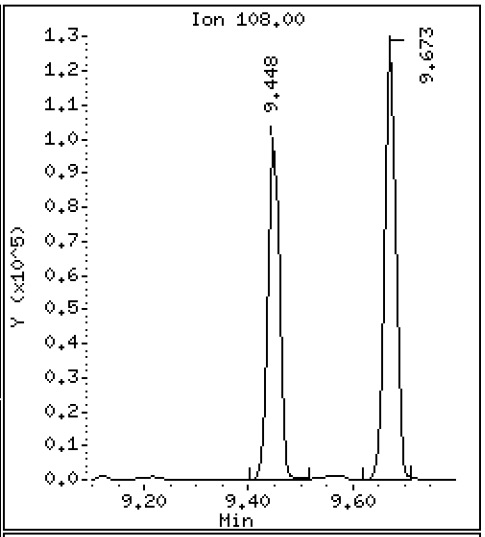
Column phase: ZB-5msi

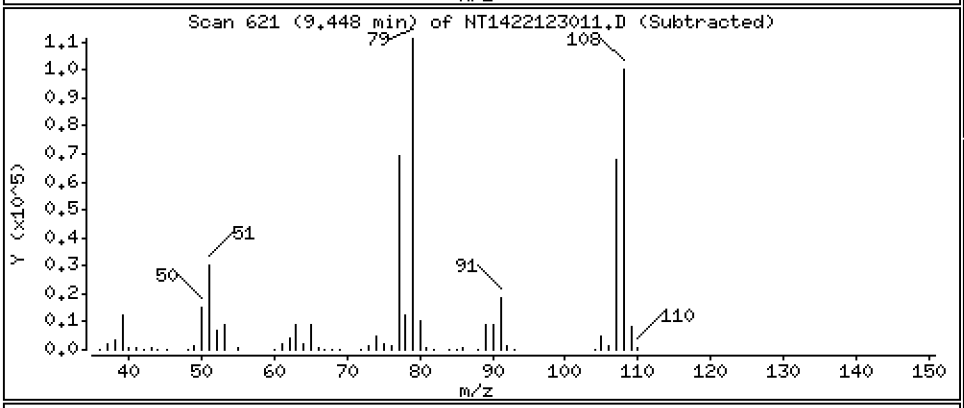
Column diameter: 0.25

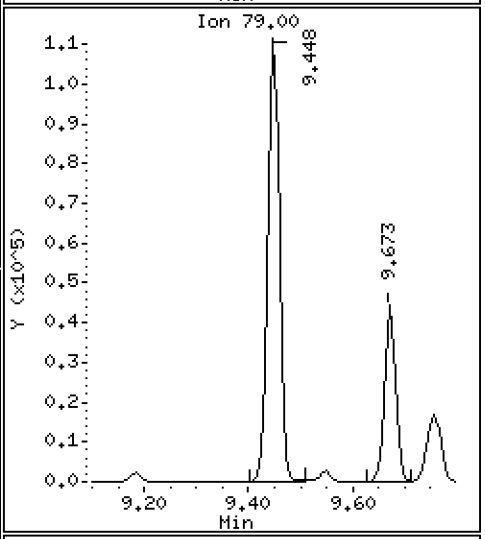
11 Benzyl alcohol

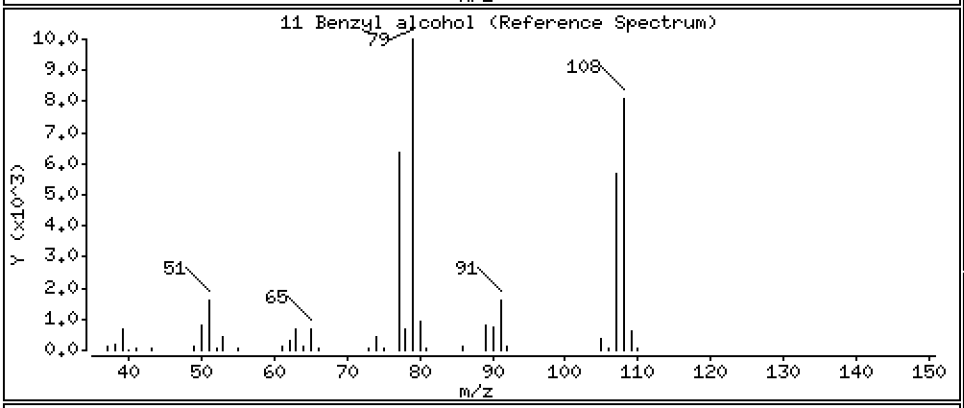
Concentration: 4.980 ug/mL

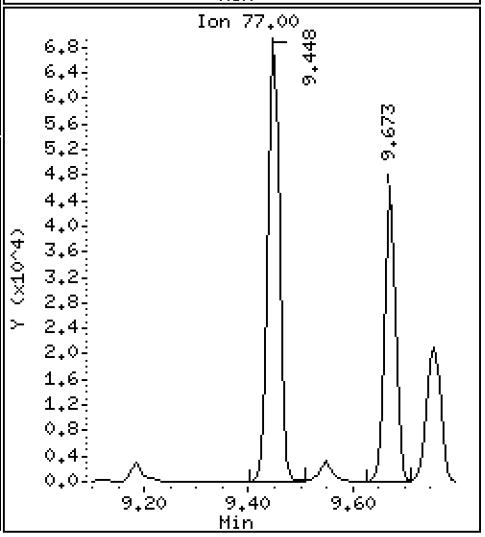


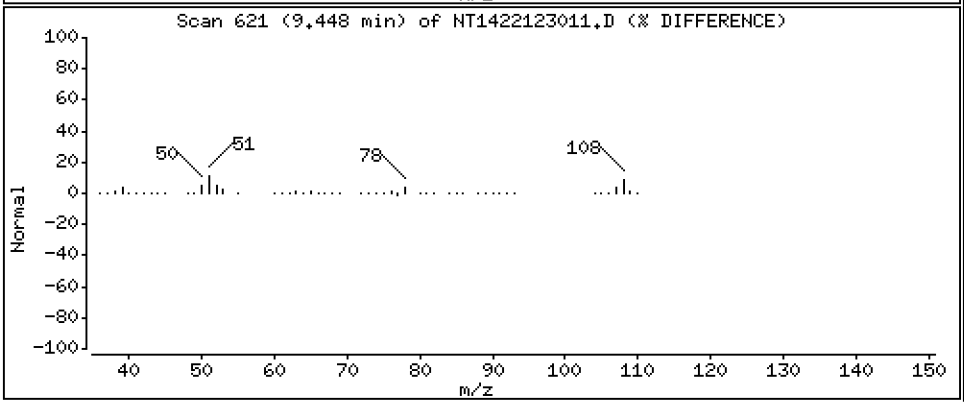












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

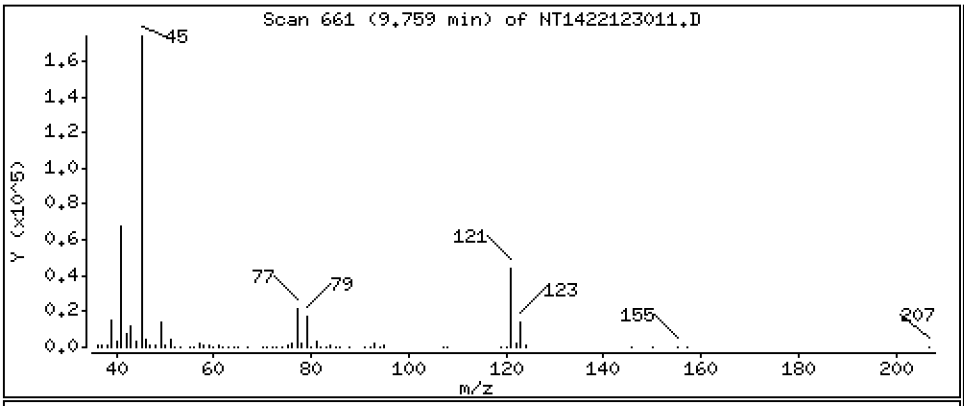
Operator: VTS

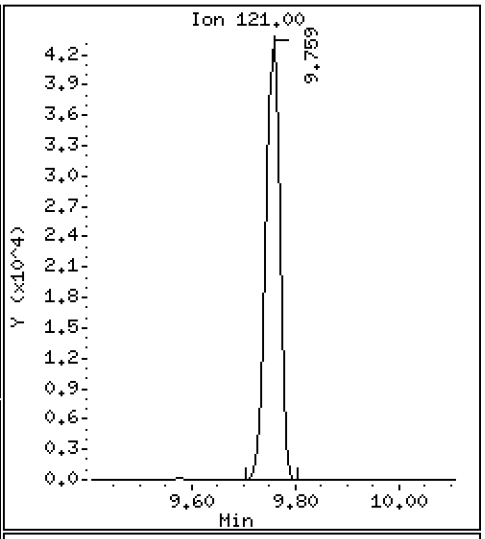
Column phase: ZB-5msi

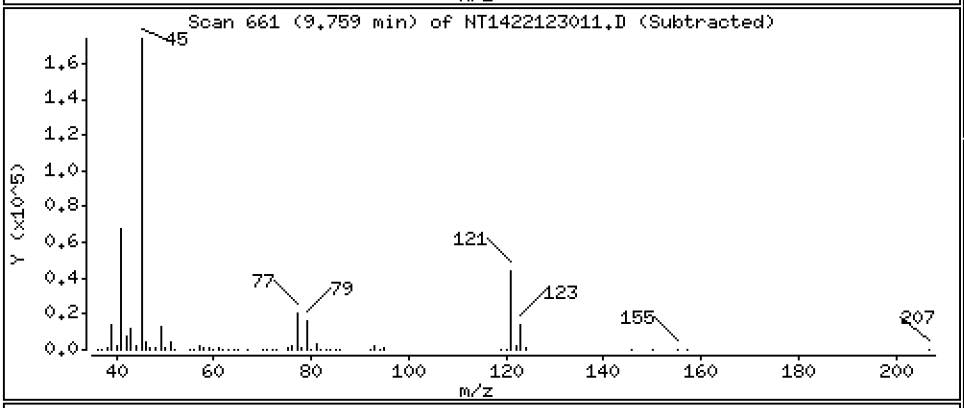
Column diameter: 0.25

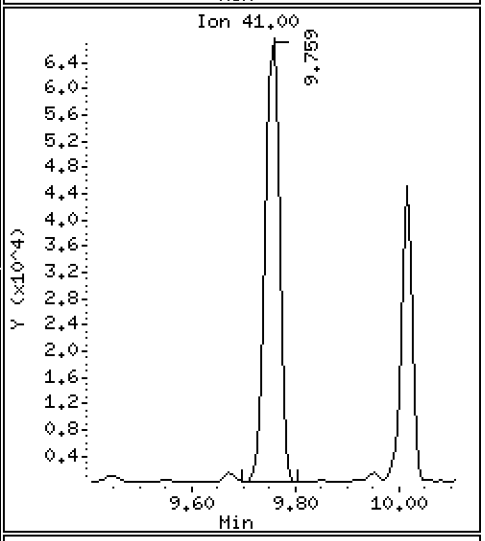
14 2,2'-oxybis(1-Chloropropane)

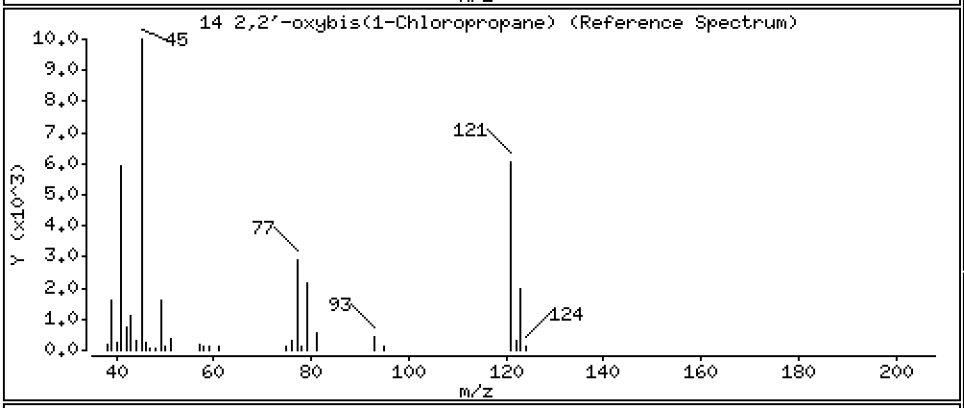
Concentration: 5.193 ug/mL

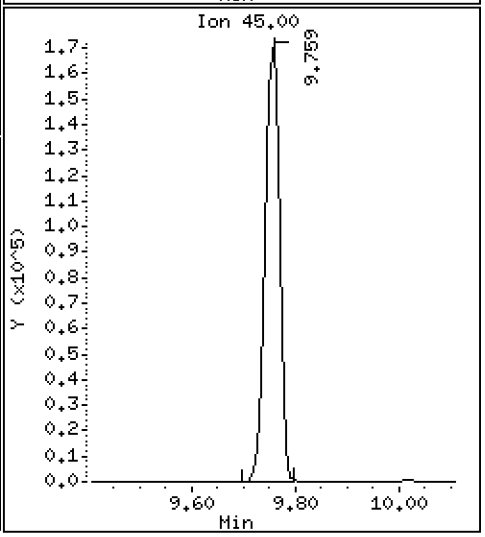


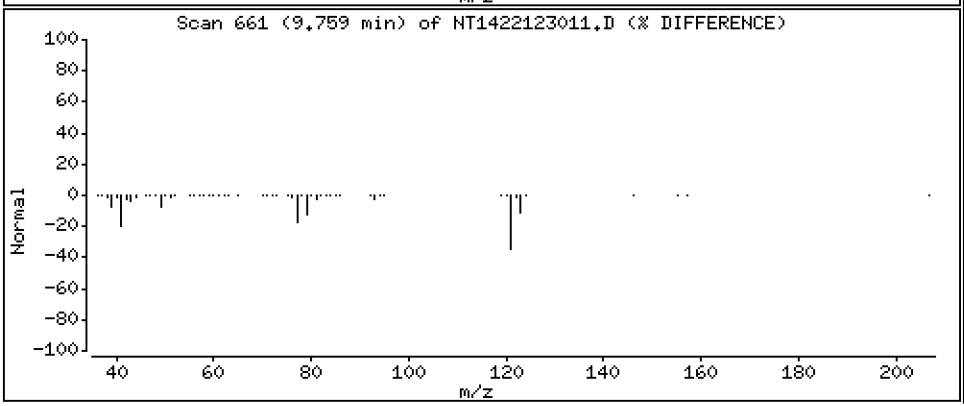












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

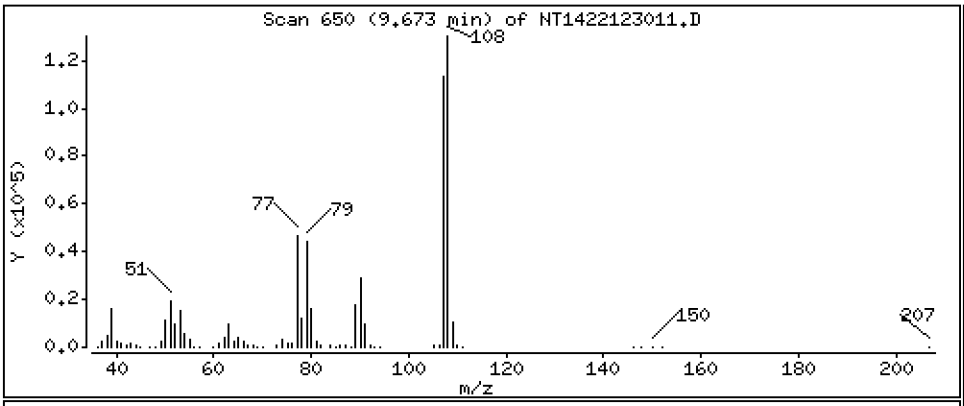
Operator: VTS

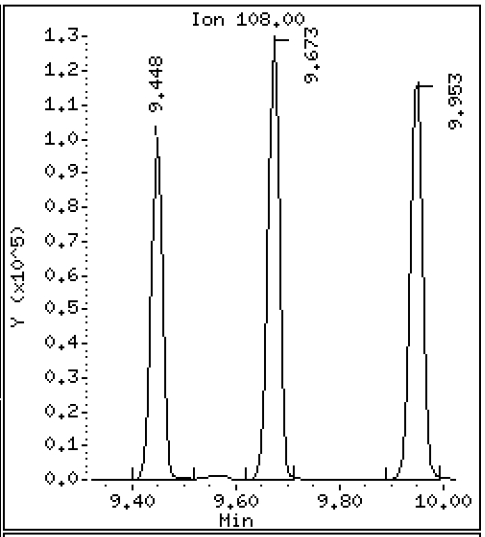
Column phase: ZB-5msi

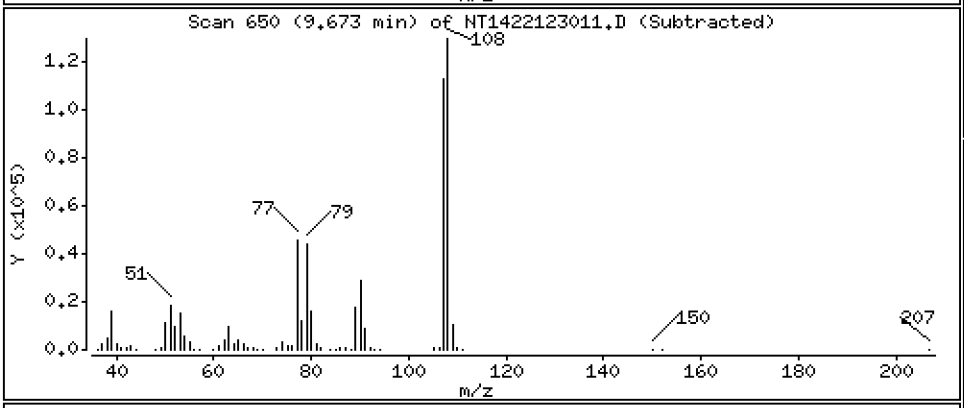
Column diameter: 0.25

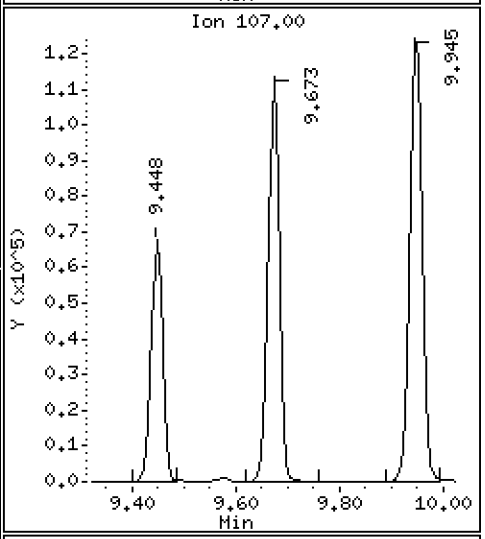
13 2-Methylphenol

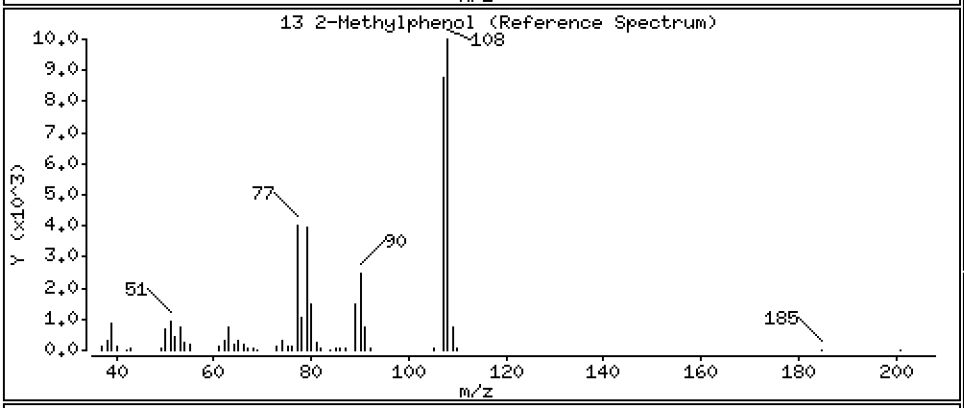
Concentration: 3.927 ug/mL

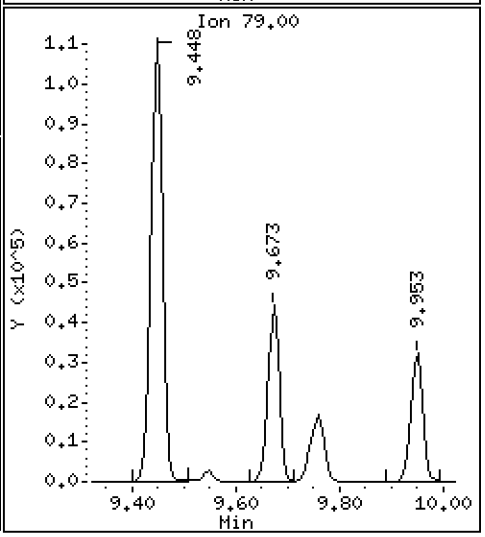


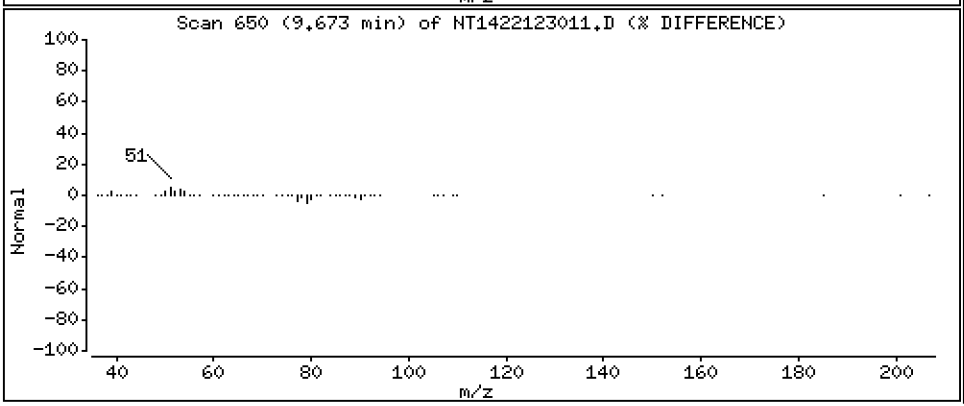












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

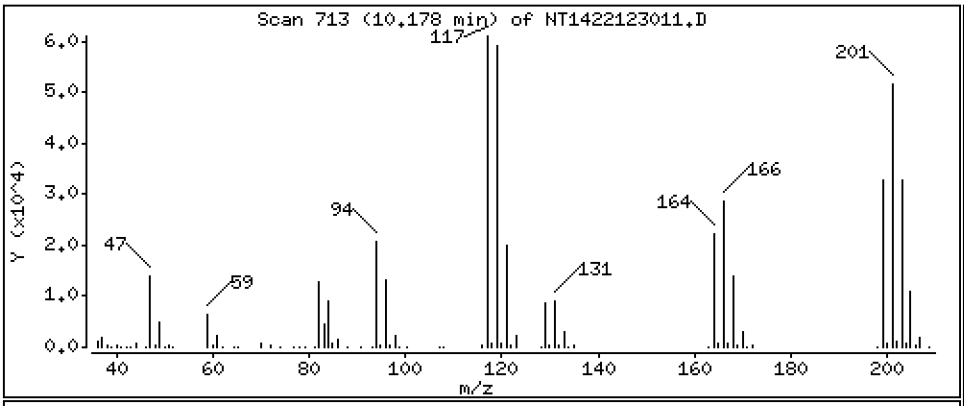
Operator: VTS

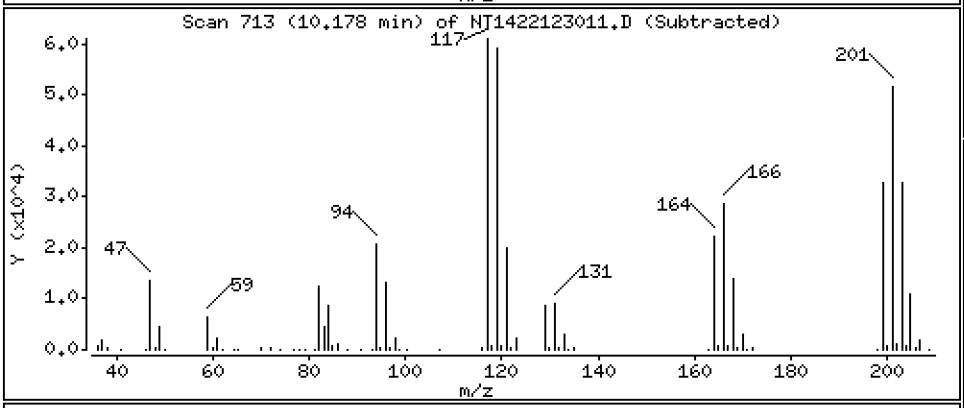
Column phase: ZB-5msi

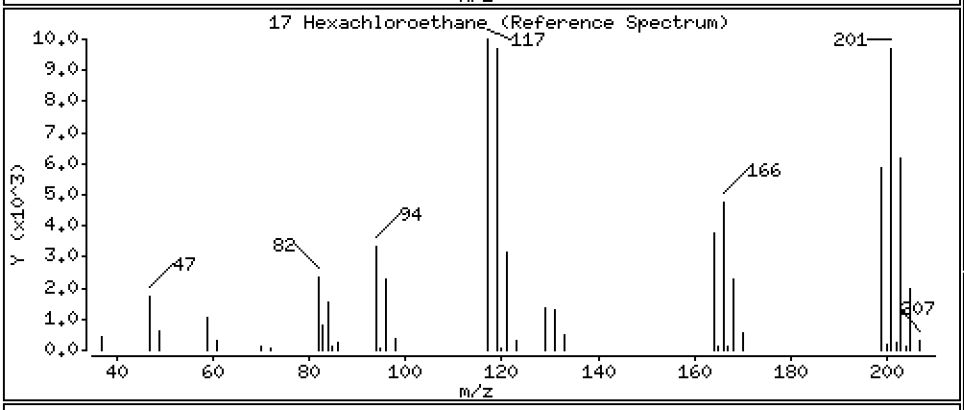
Column diameter: 0.25

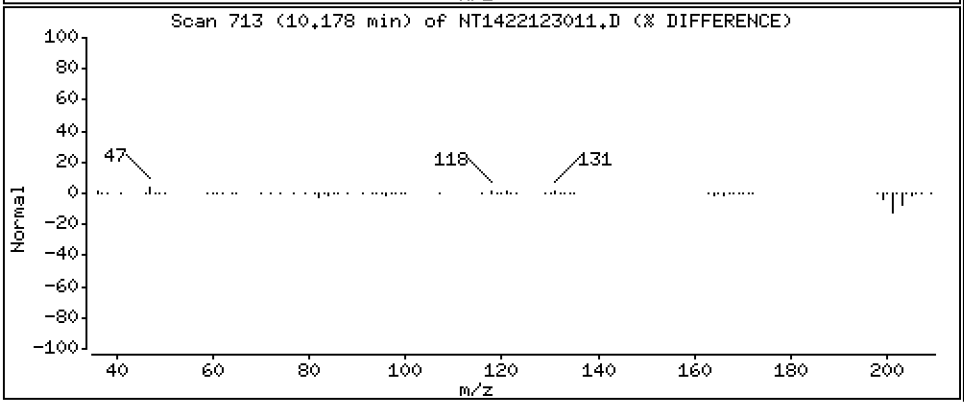
17 Hexachloroethane

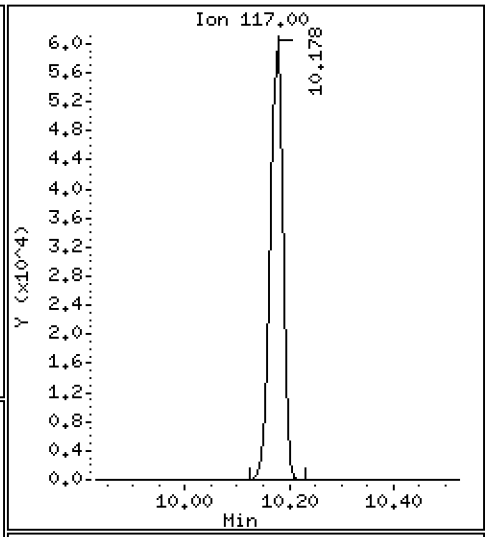
Concentration: 4.929 ug/mL

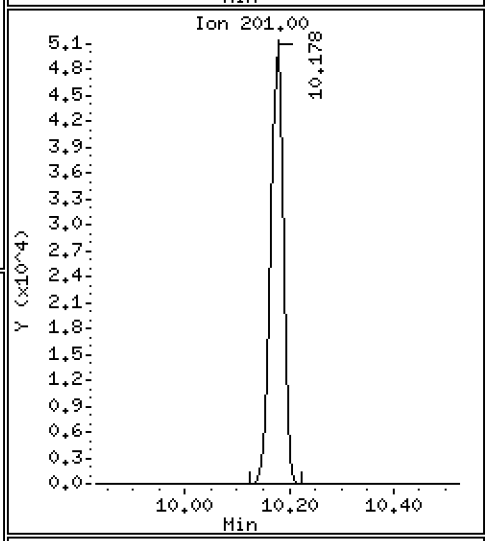


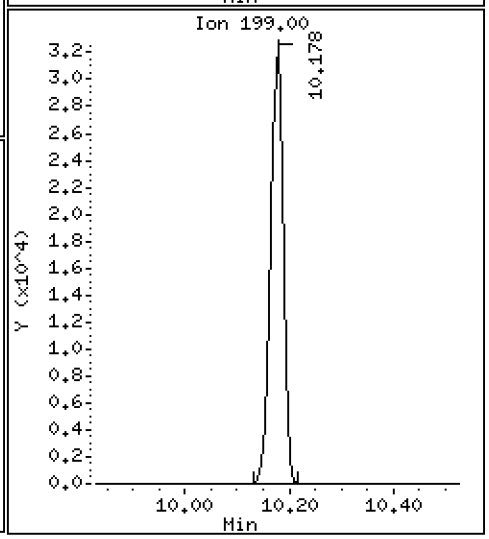












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

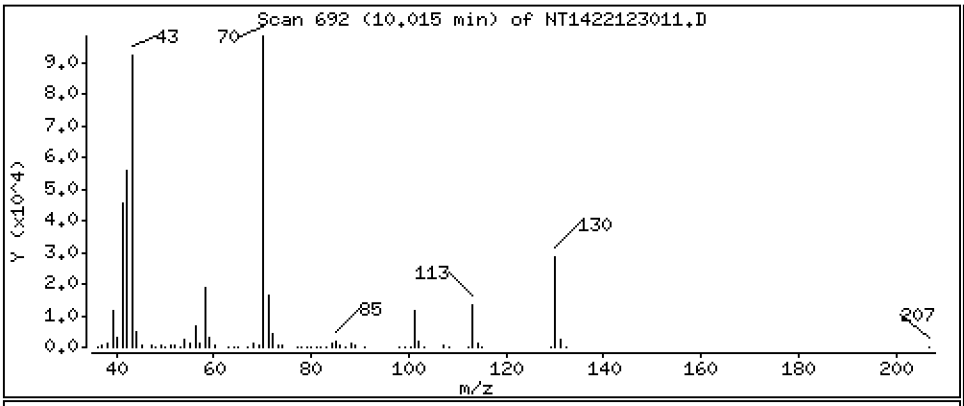
Operator: VTS

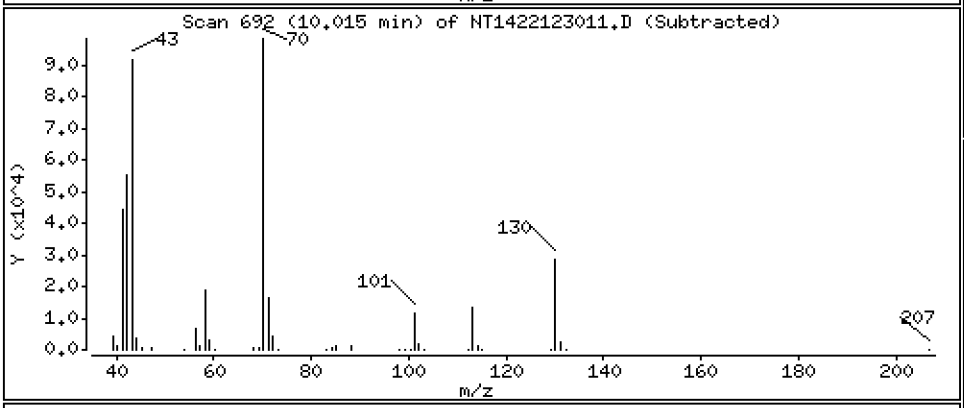
Column phase: ZB-5msi

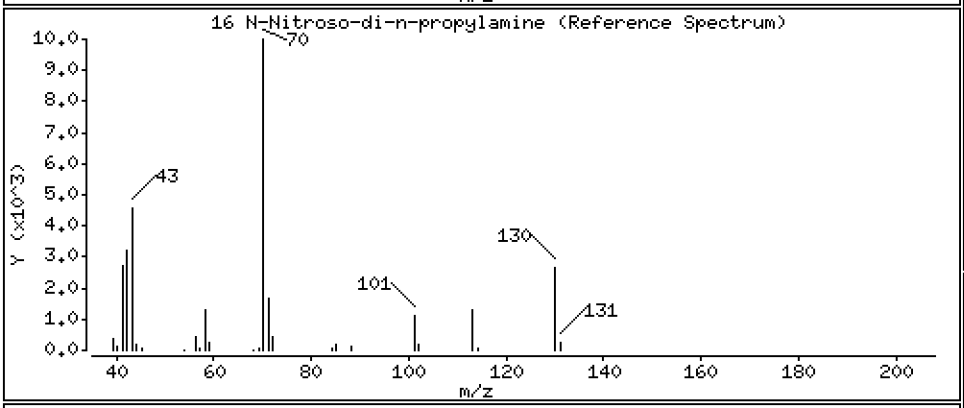
Column diameter: 0.25

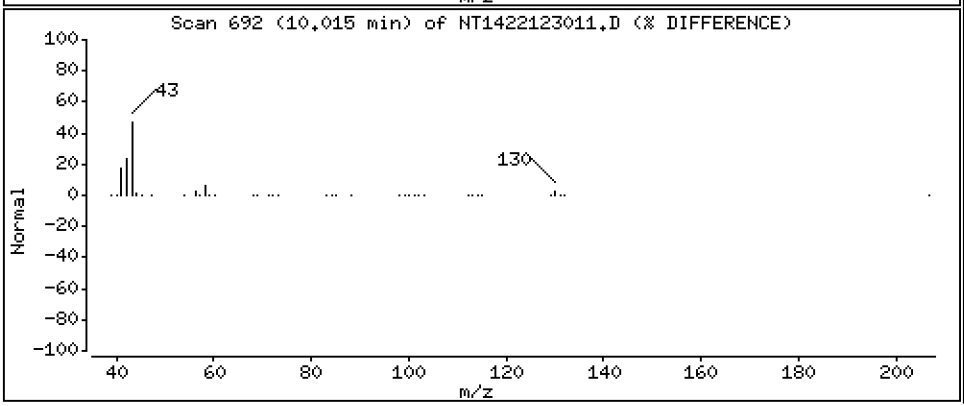
16 N-Nitroso-di-n-propylamine

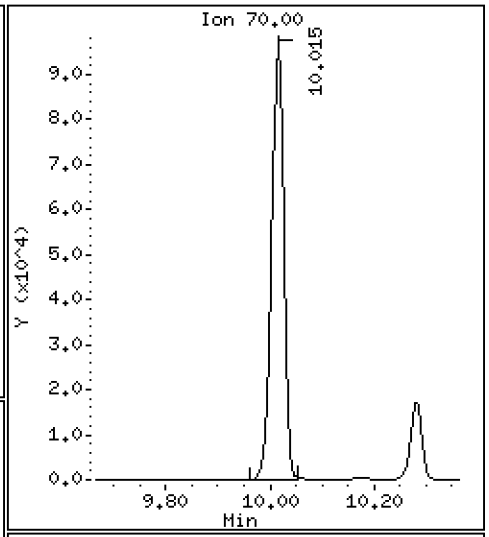
Concentration: 5.128 ug/mL

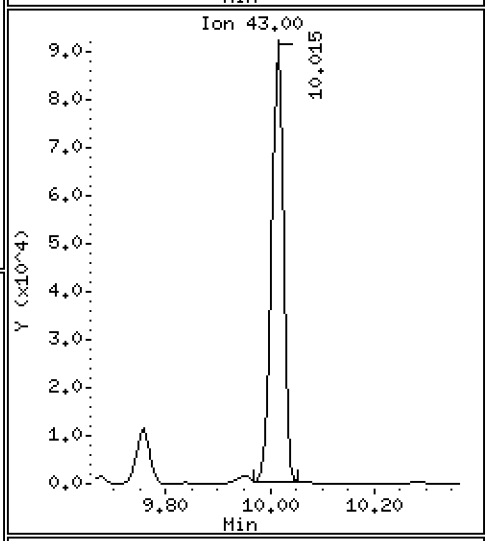


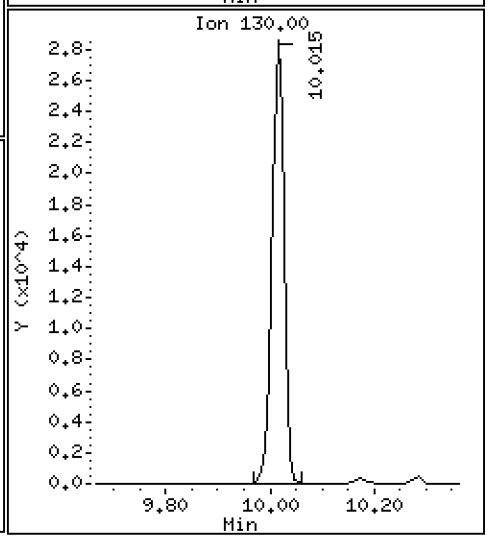












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

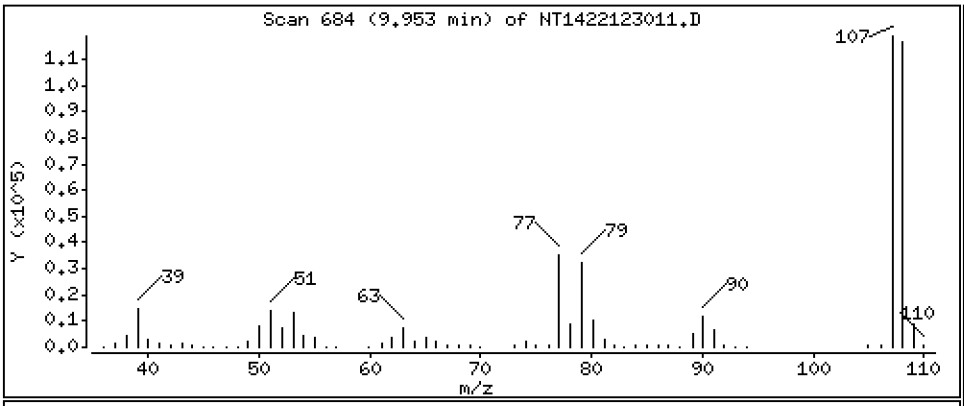
Operator: VTS

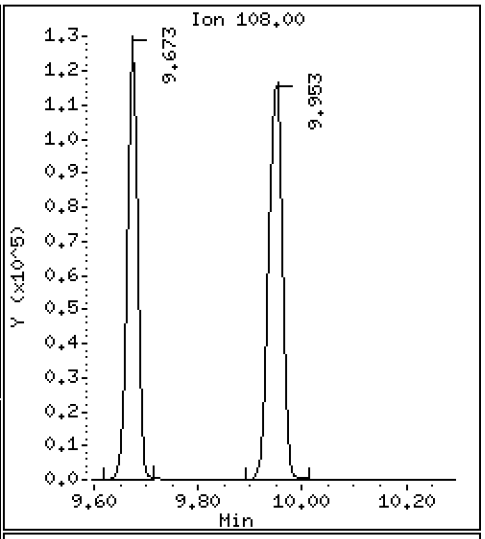
Column phase: ZB-5msi

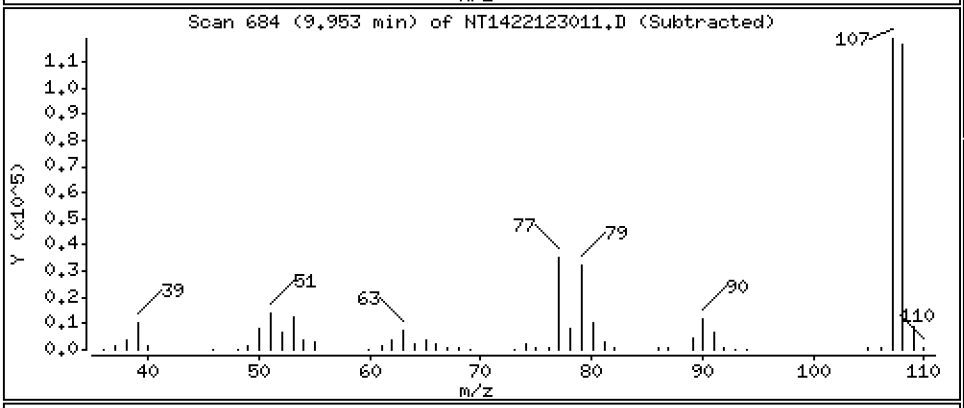
Column diameter: 0.25

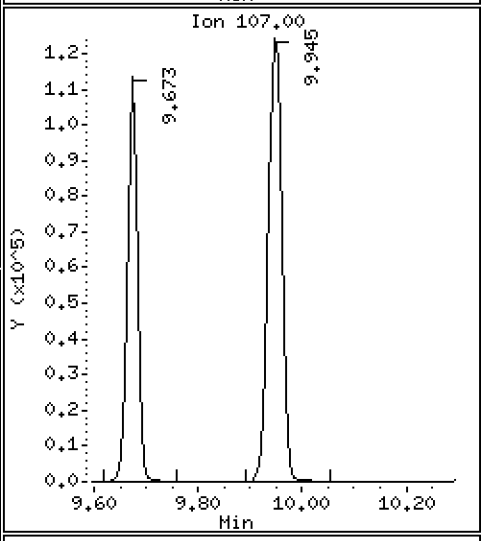
15 4-Methylphenol

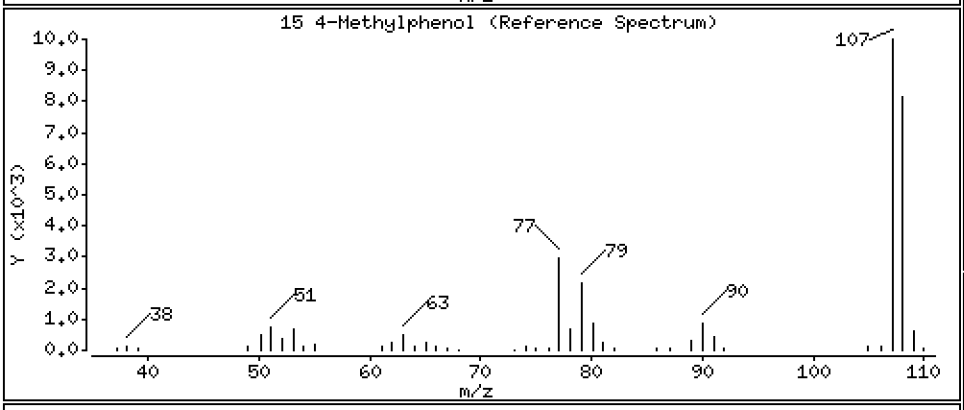
Concentration: 4.122 ug/mL

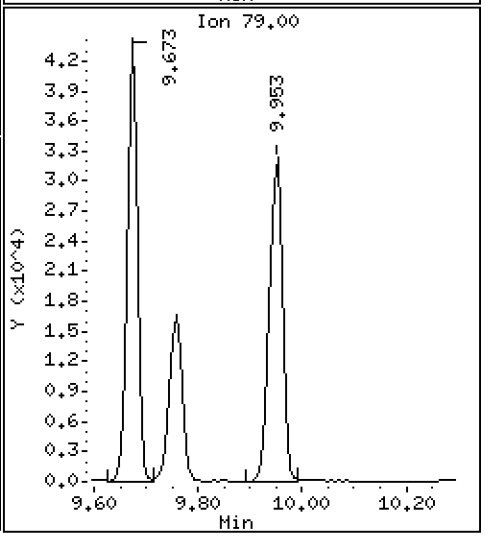


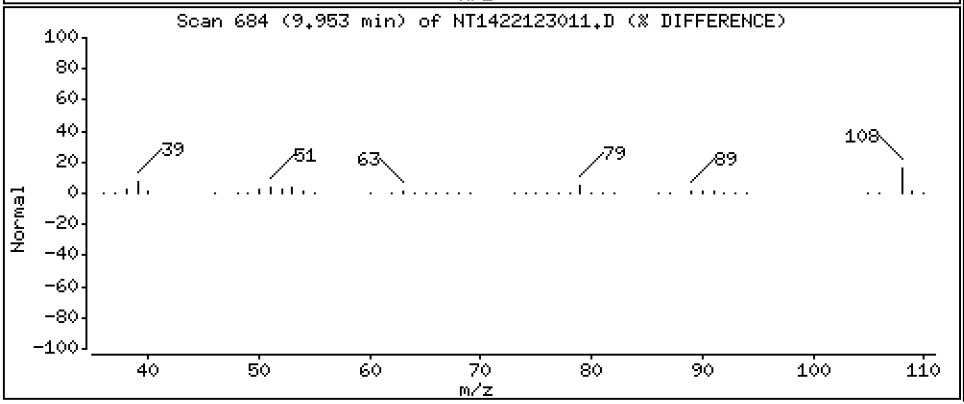












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

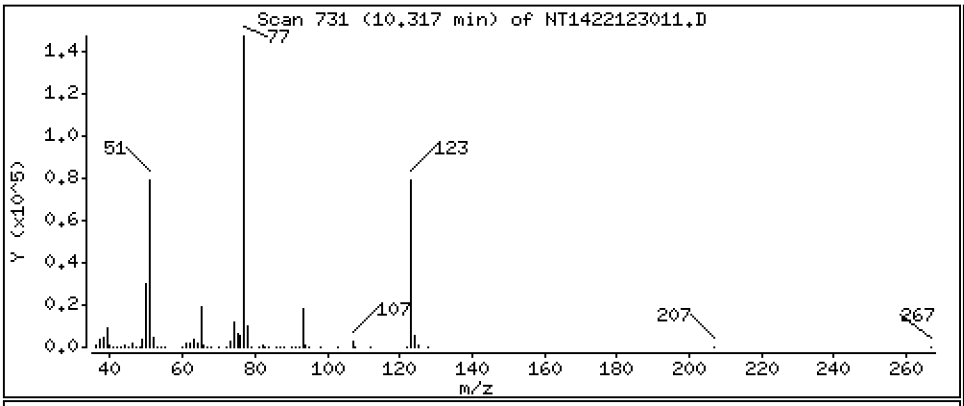
Operator: VTS

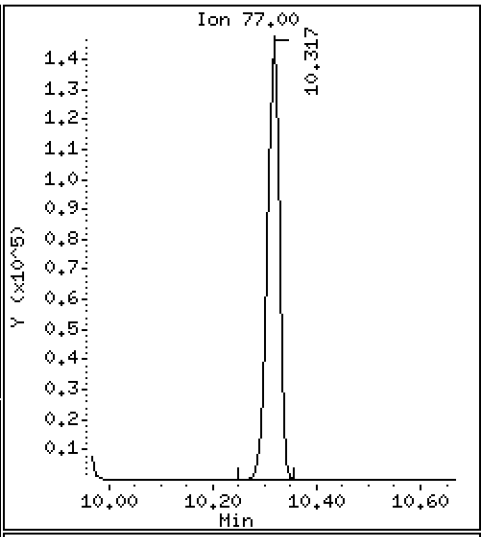
Column phase: ZB-5msi

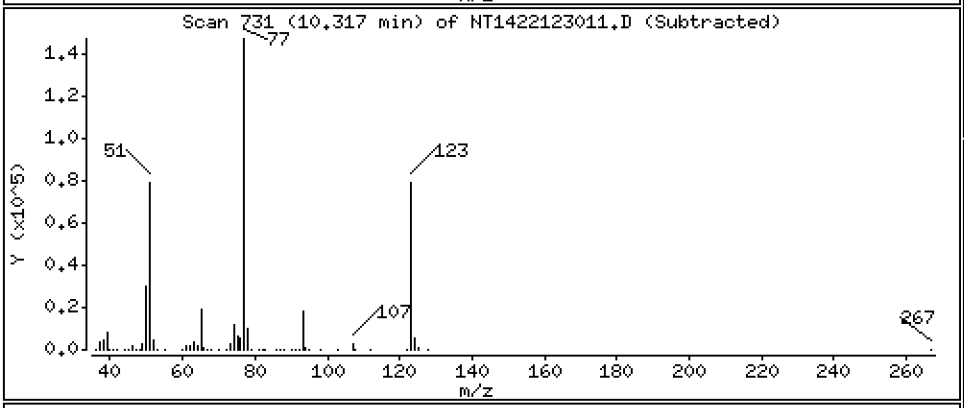
Column diameter: 0.25

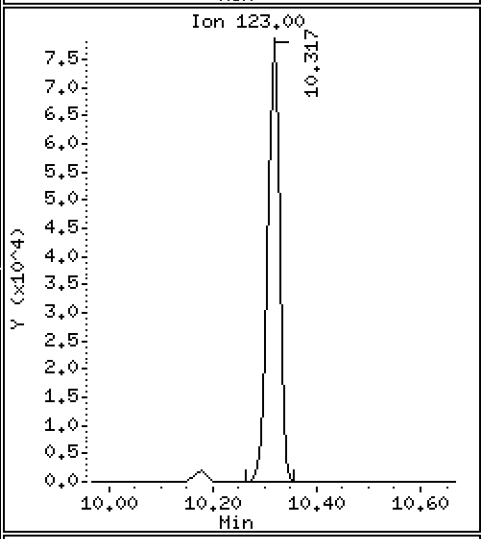
19 Nitrobenzene

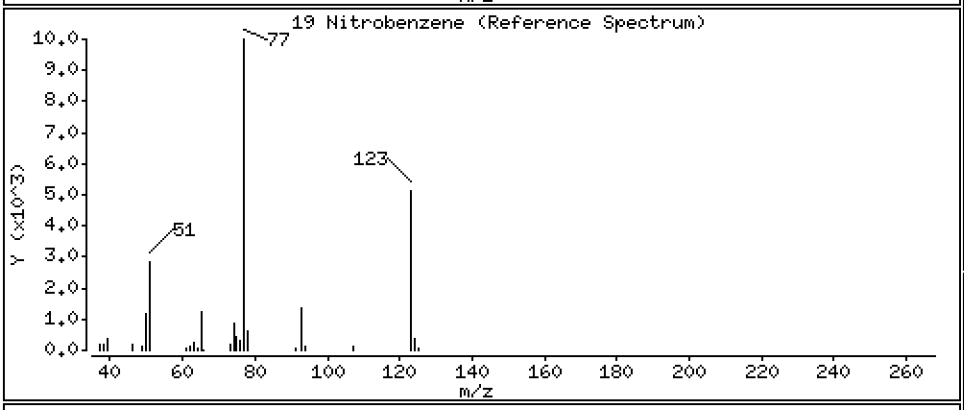
Concentration: 4.880 ug/mL

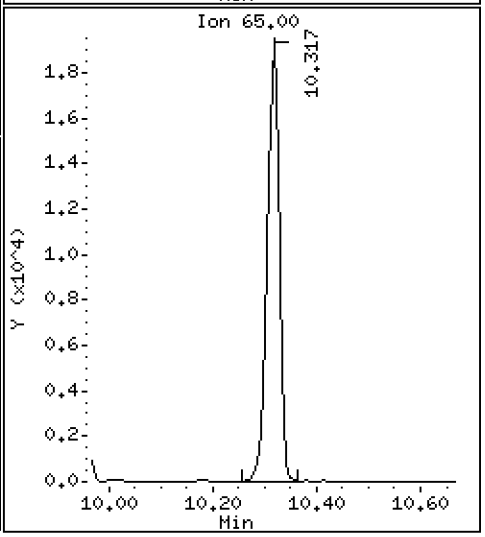


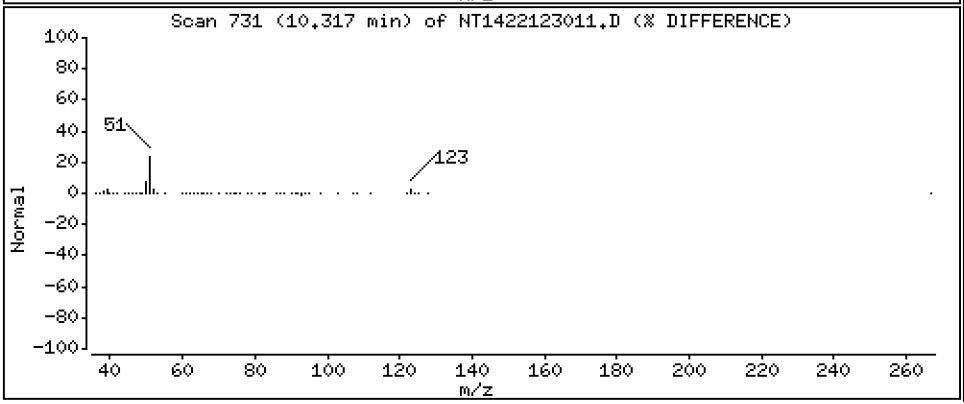












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

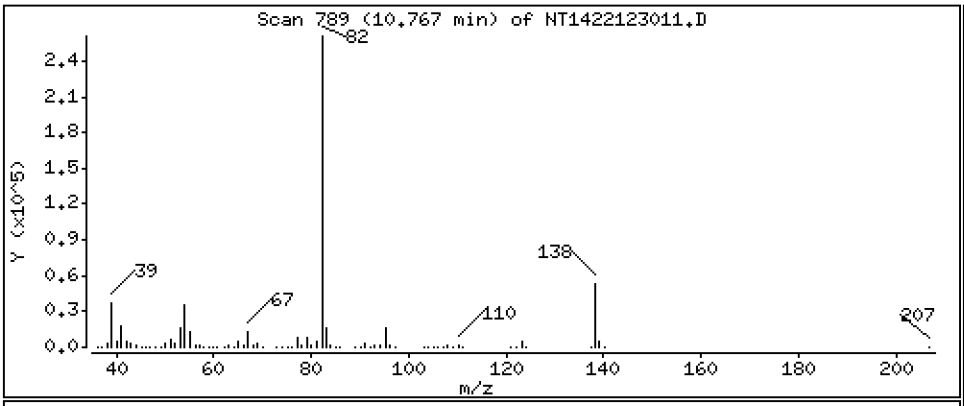
Operator: VTS

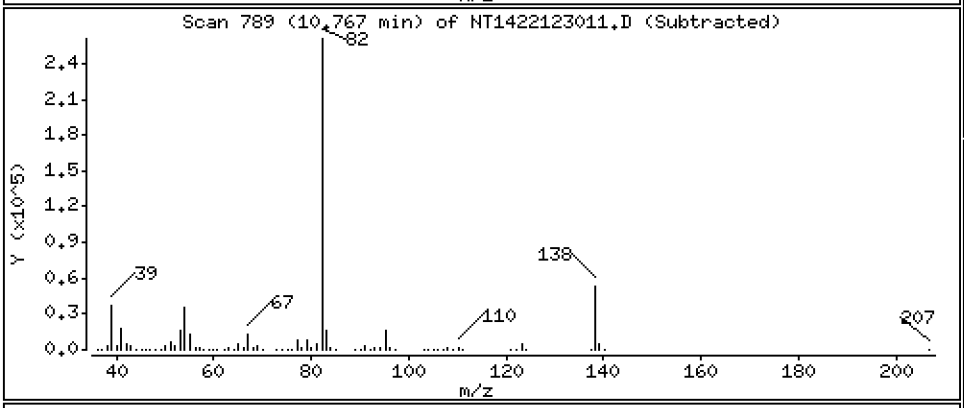
Column phase: ZB-5msi

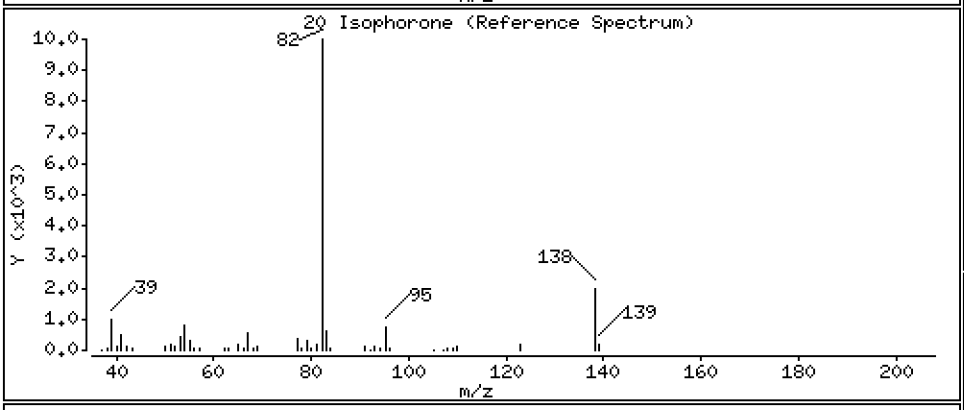
Column diameter: 0.25

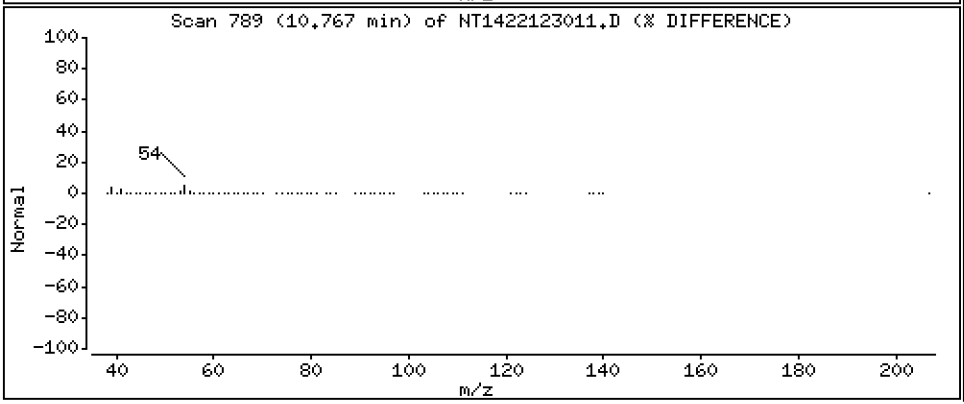
20 Isophorone

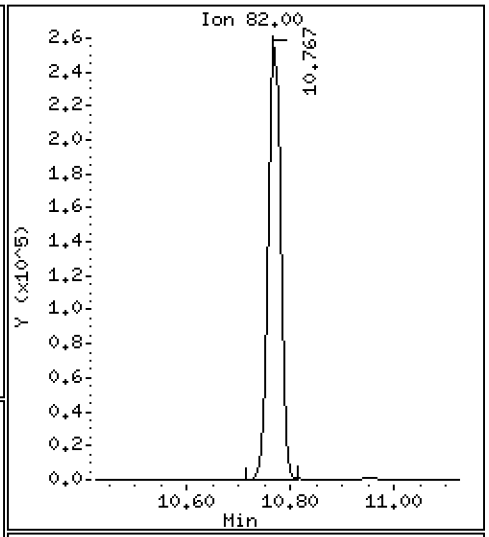
Concentration: 6.946 ug/mL

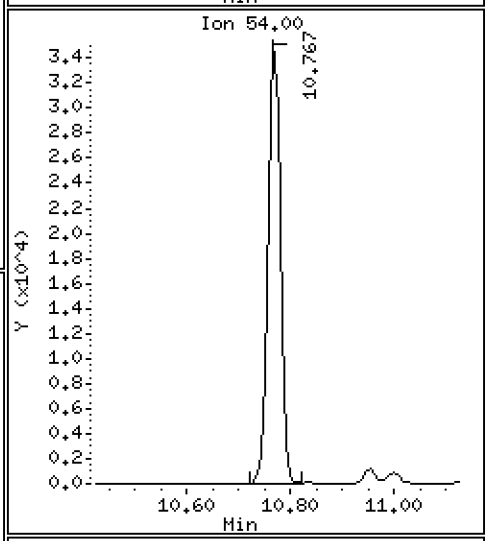


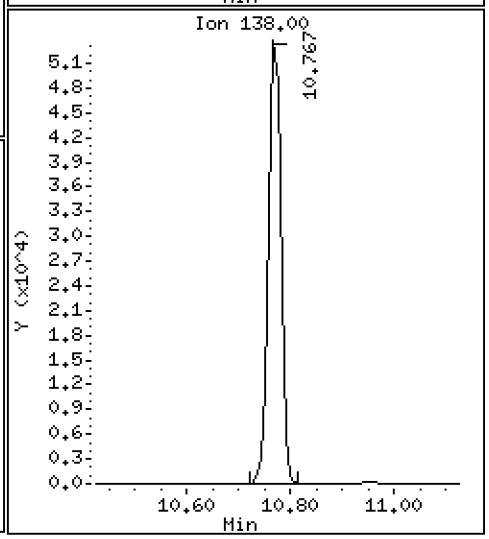












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

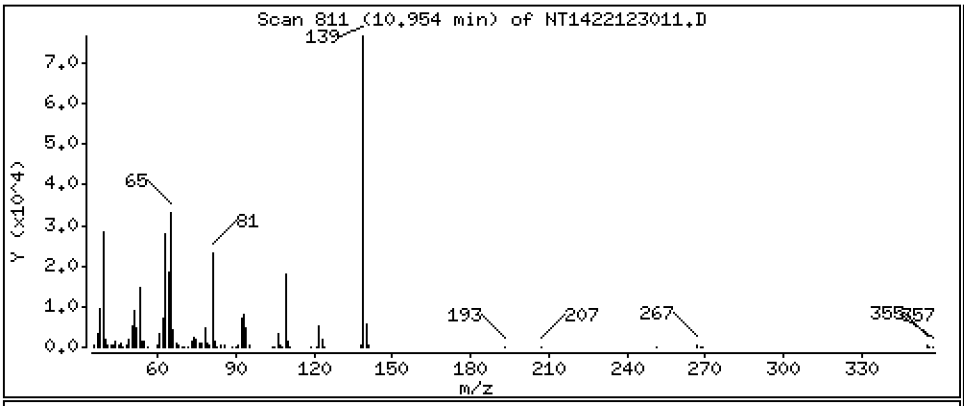
Operator: VTS

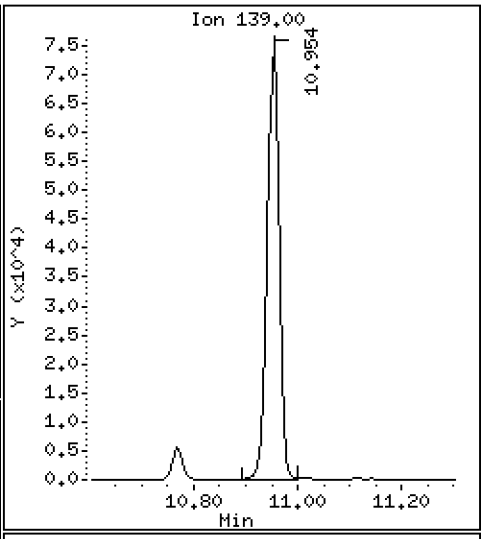
Column phase: ZB-5msi

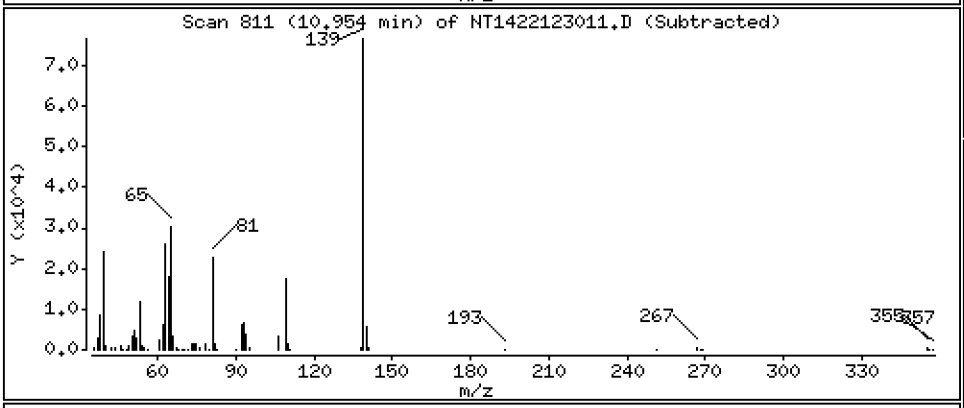
Column diameter: 0.25

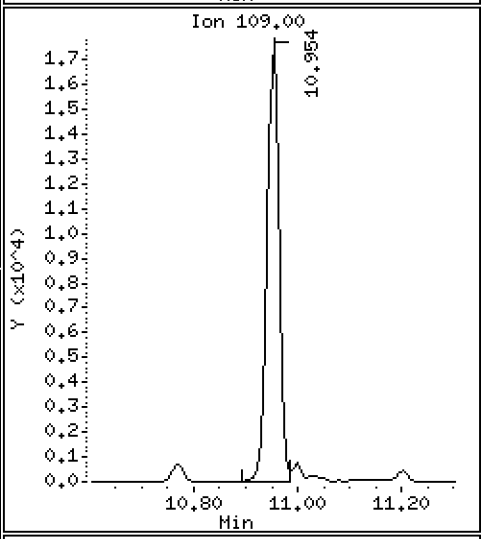
21 2-Nitrophenol

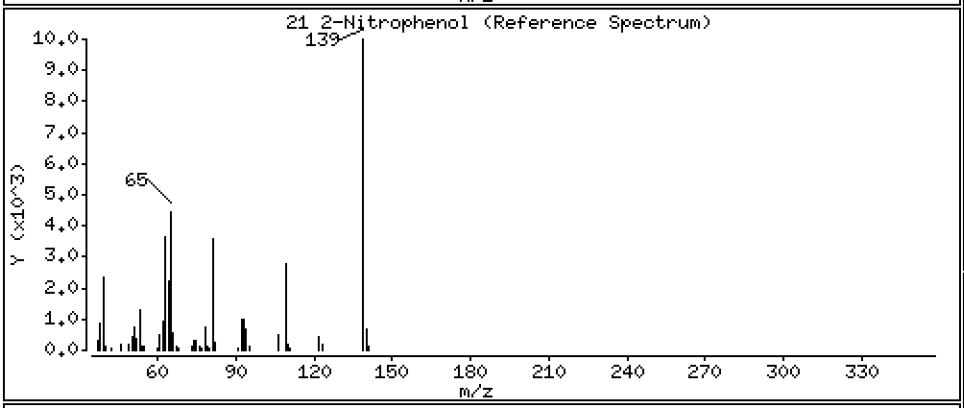
Concentration: 4.556 ug/mL

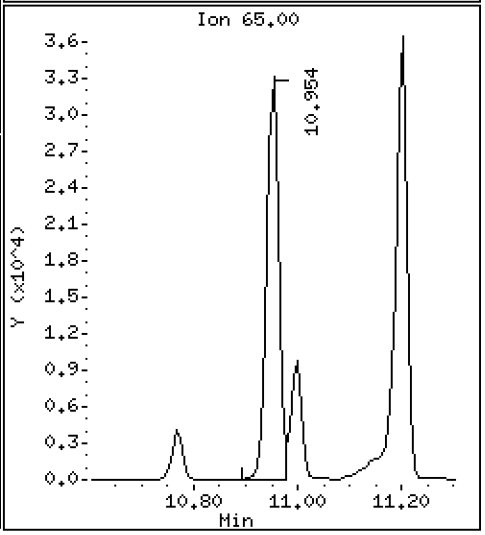


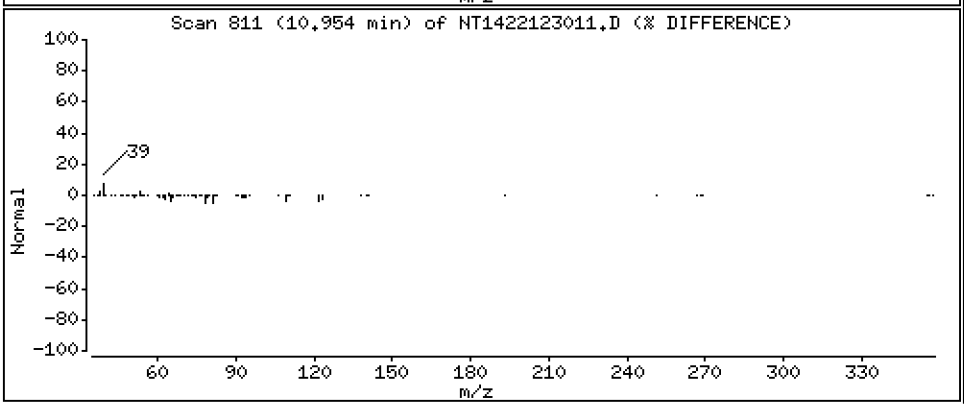












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

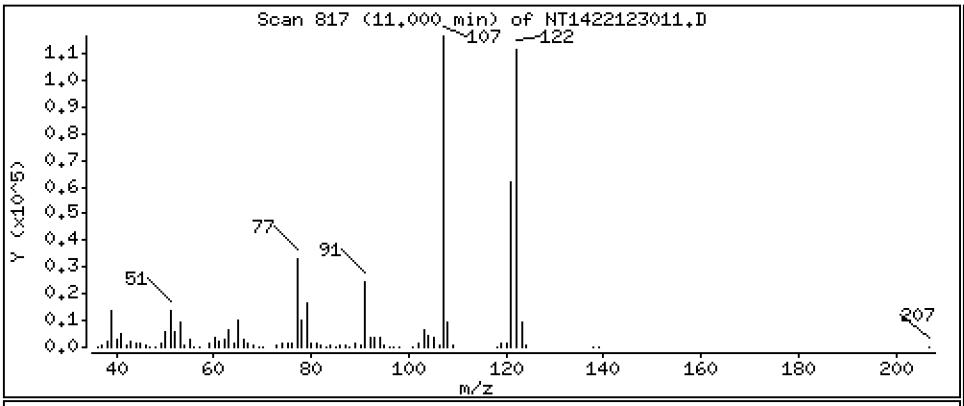
Operator: VTS

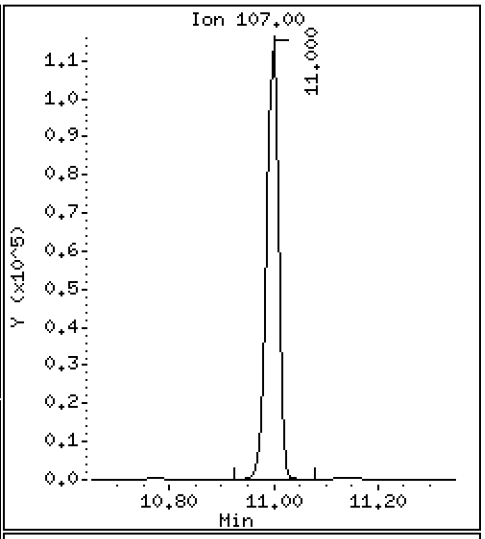
Column phase: ZB-5msi

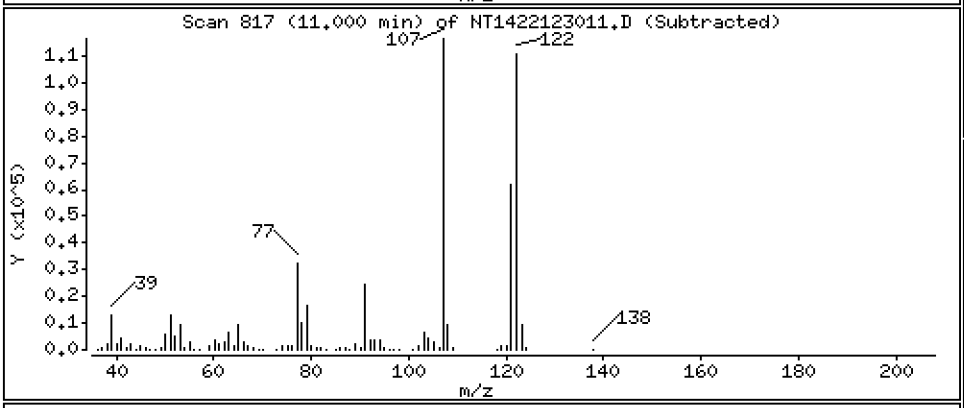
Column diameter: 0.25

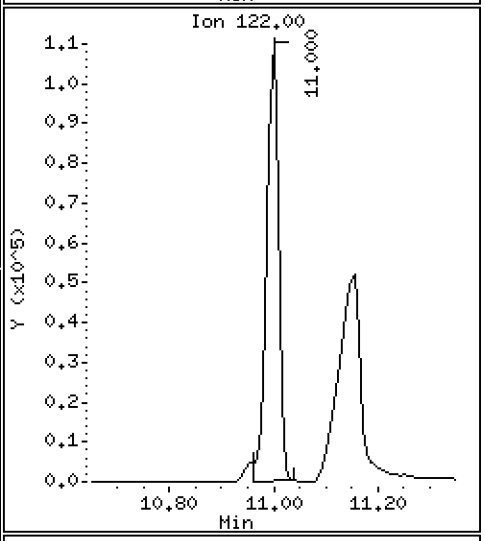
22 2,4-Dimethylphenol

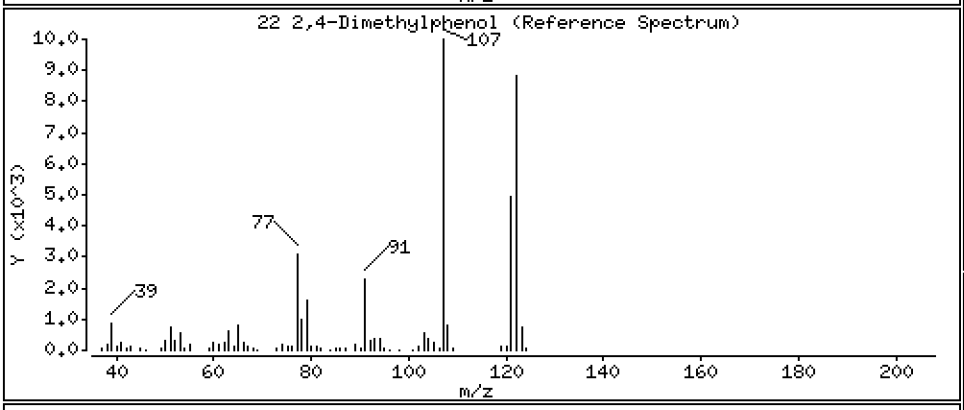
Concentration: 3.663 ug/mL

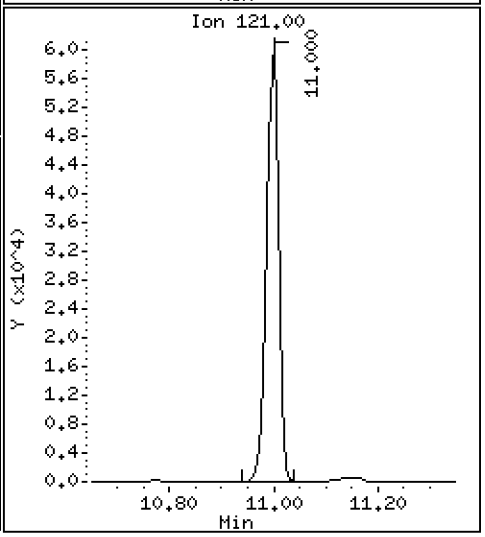


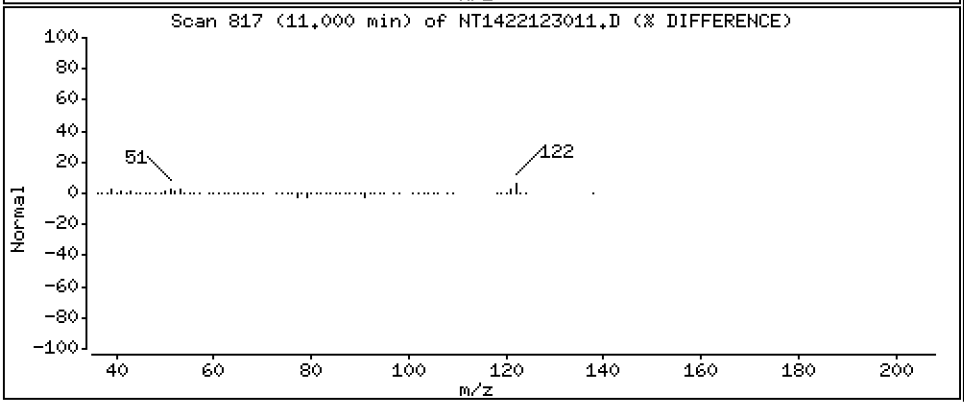












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

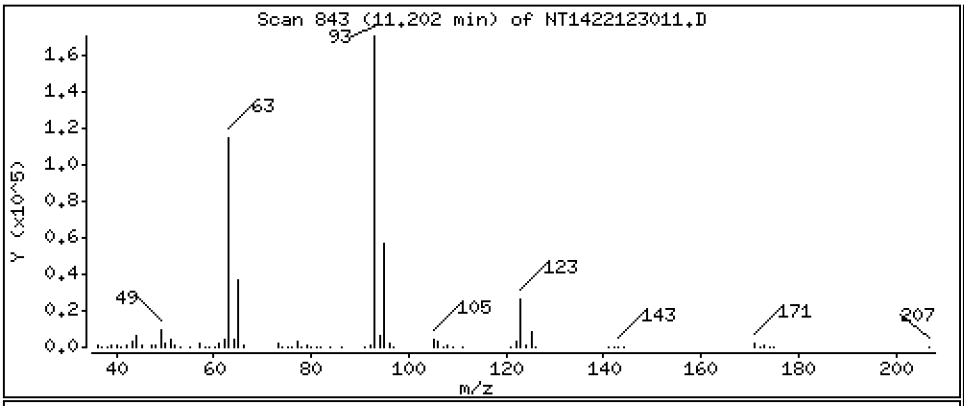
Operator: VTS

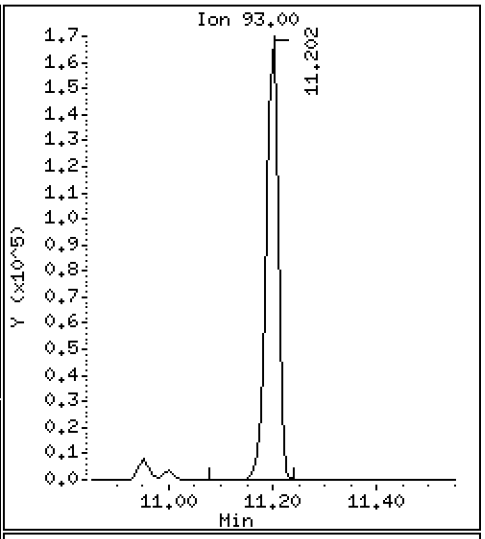
Column phase: ZB-5msi

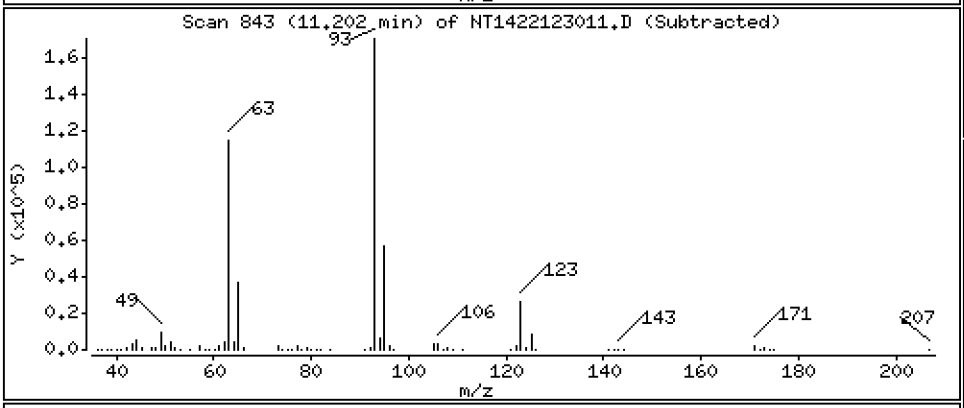
Column diameter: 0.25

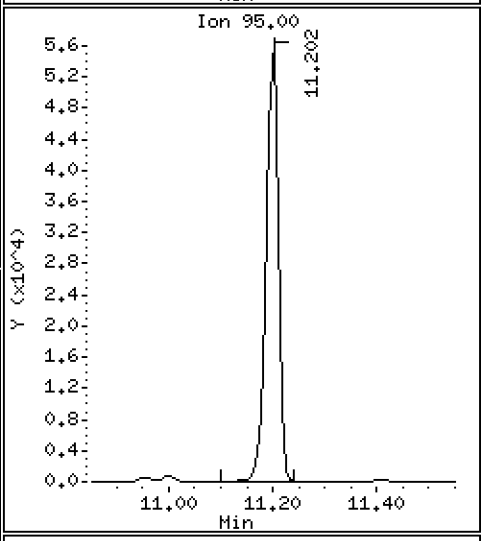
23 Bis(2-Chloroethoxy)methane

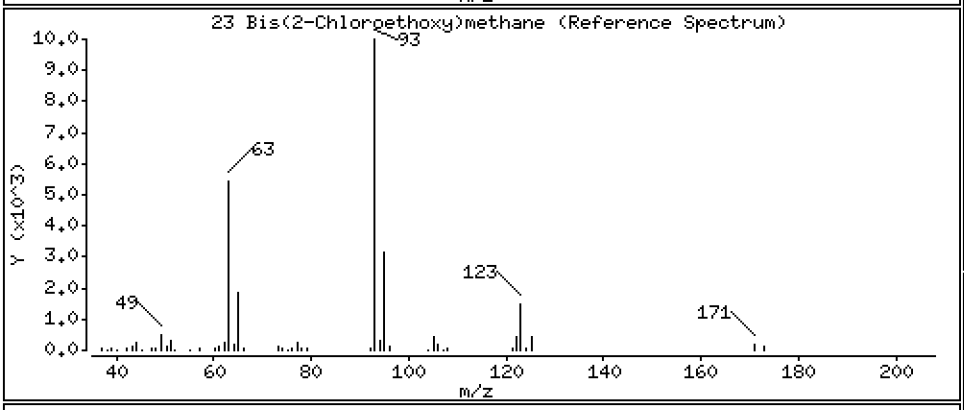
Concentration: 5.670 ug/mL

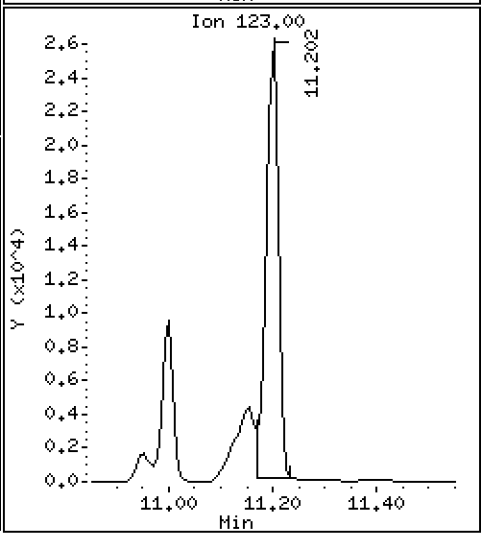


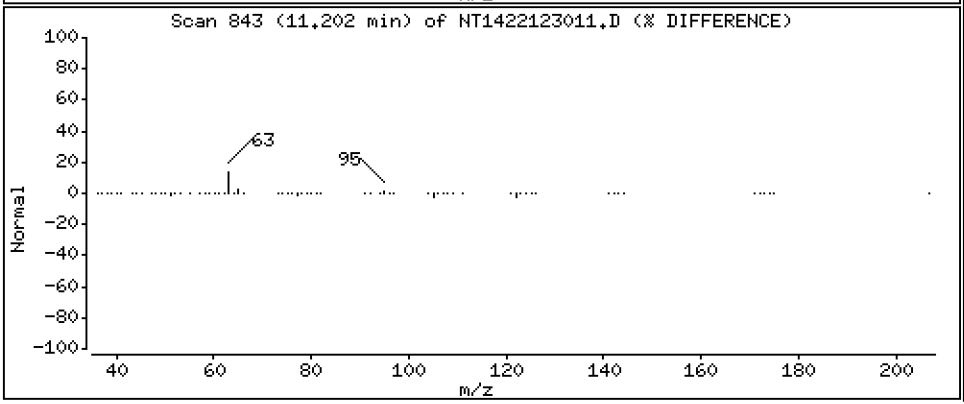












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

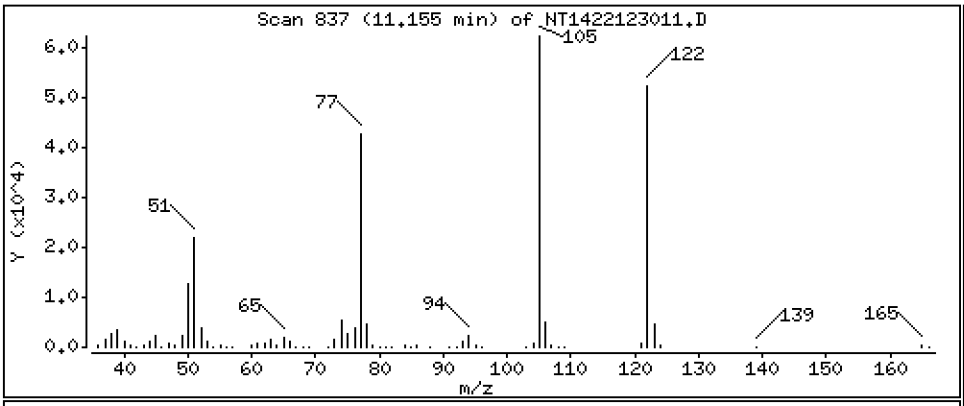
Operator: VTS

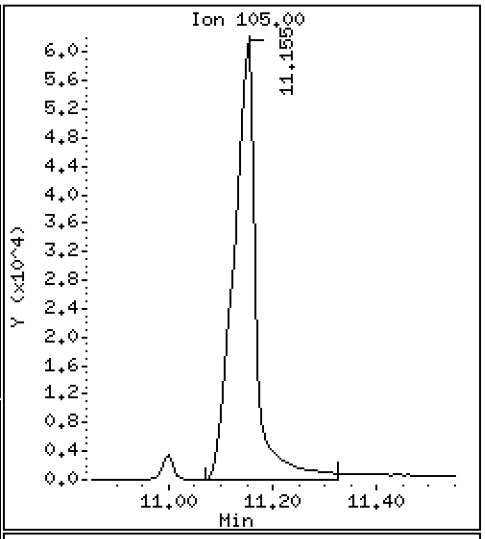
Column phase: ZB-5msi

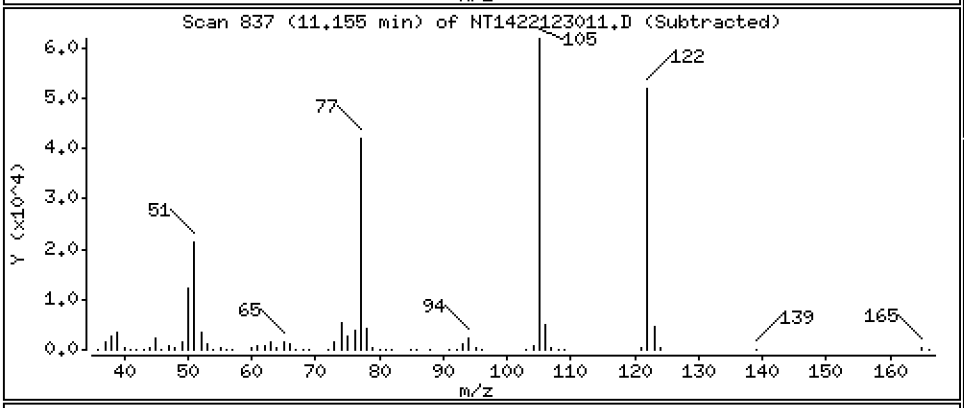
Column diameter: 0.25

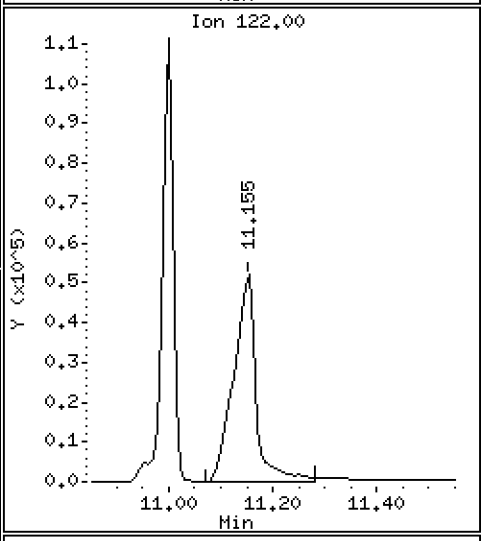
24 Benzoic acid

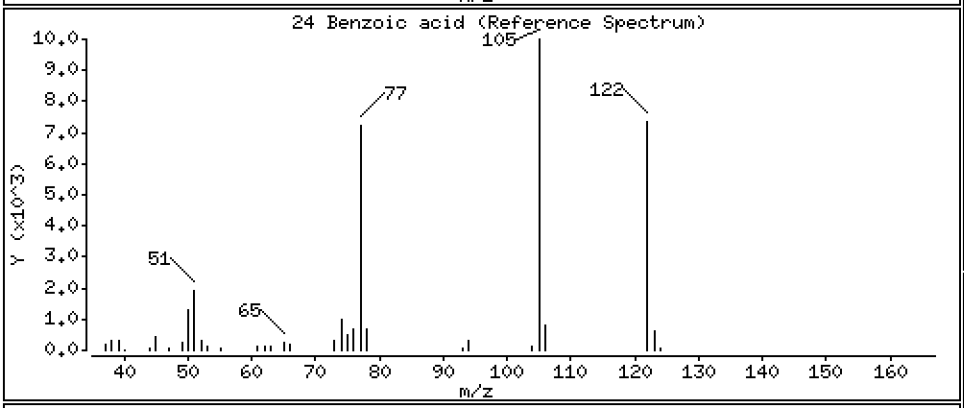
Concentration: 6.385 ug/mL

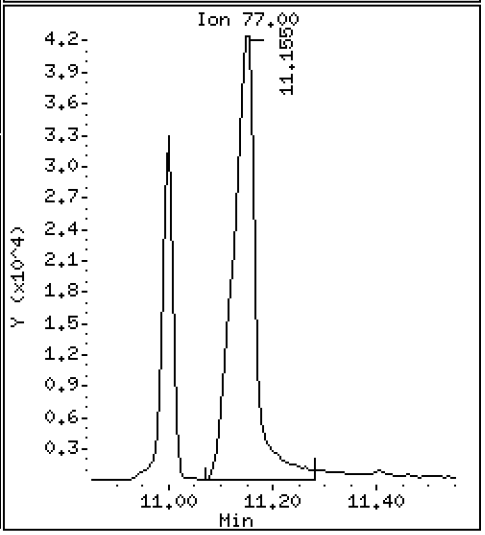


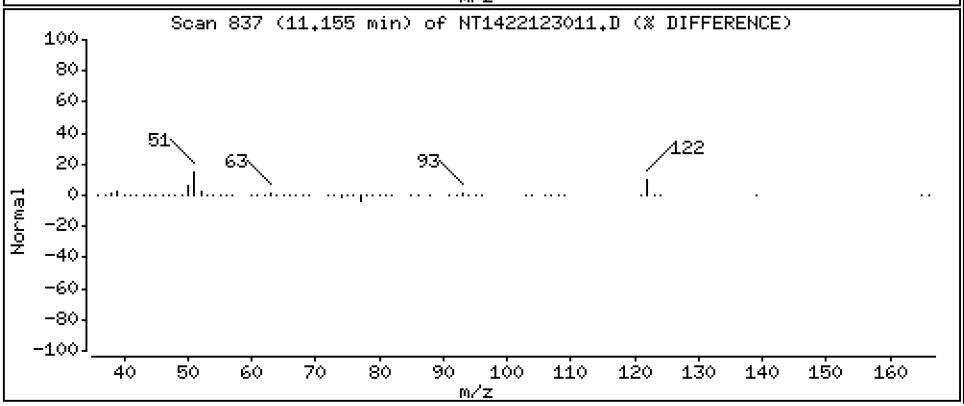












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

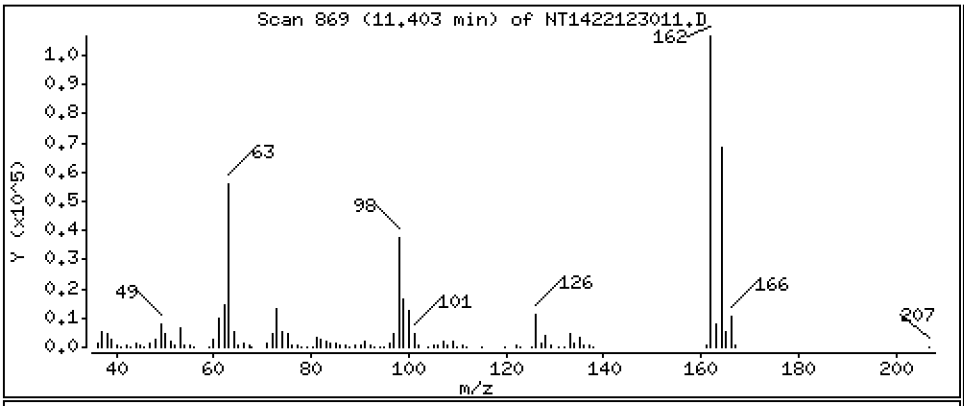
Operator: VTS

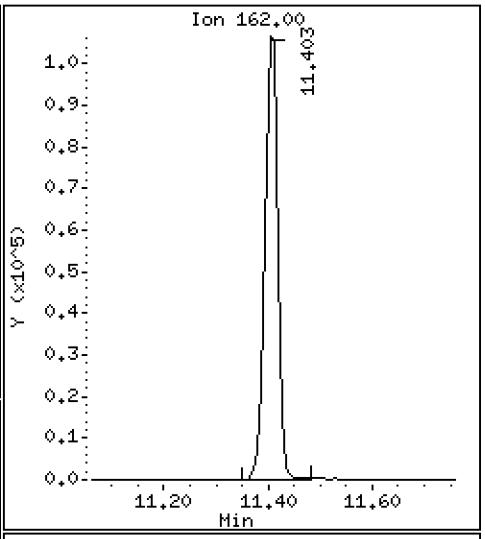
Column phase: ZB-5msi

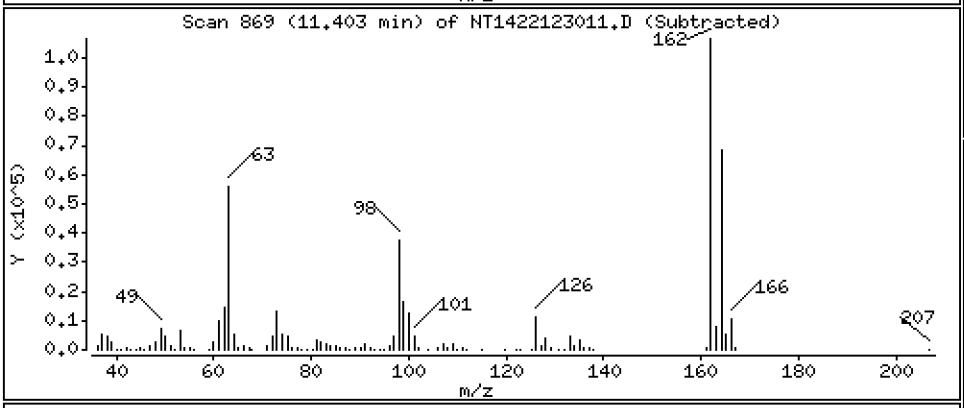
Column diameter: 0.25

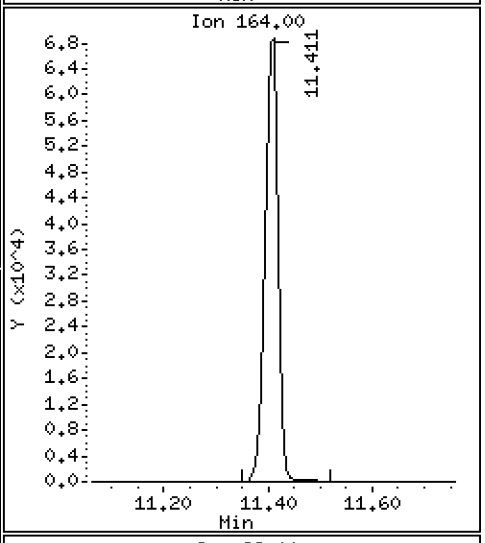
25 2,4-Dichlorophenol

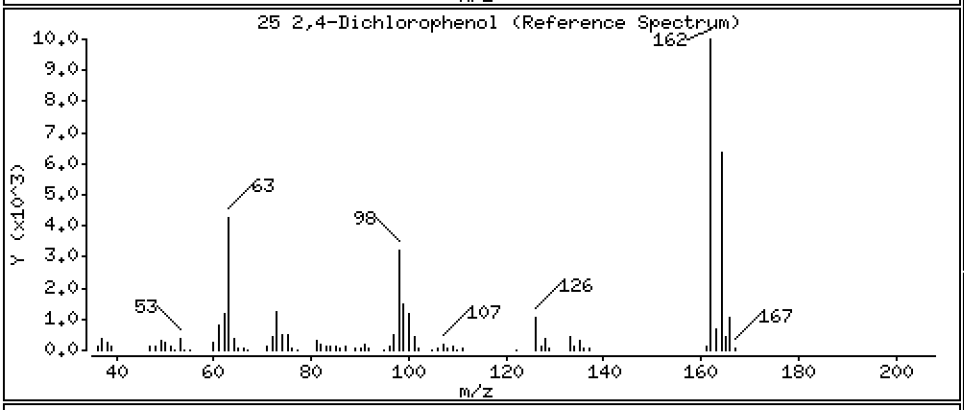
Concentration: 4.388 ug/mL

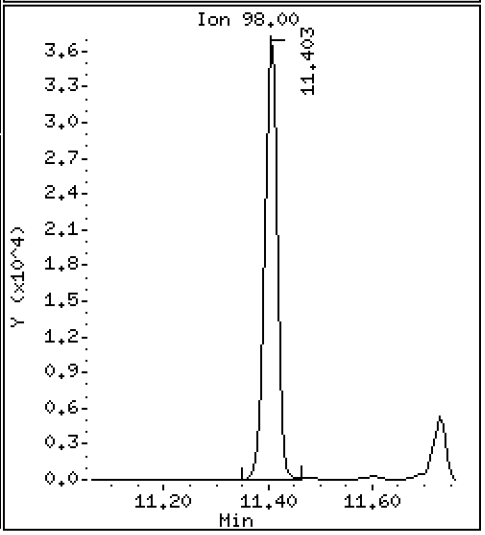


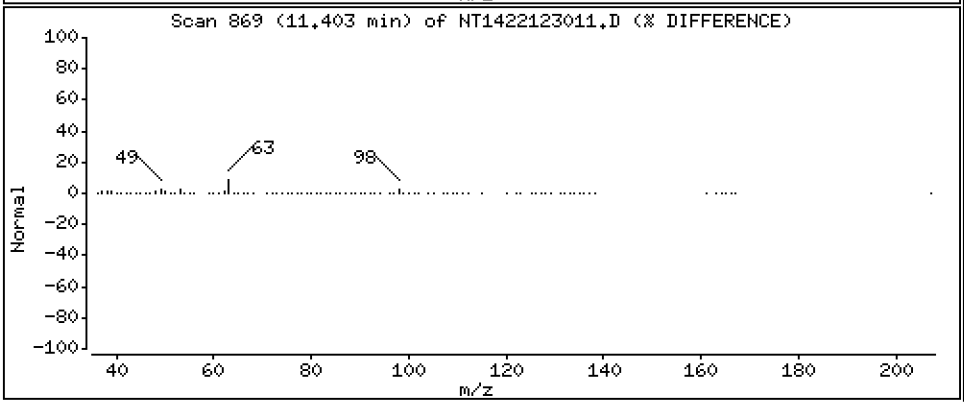












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

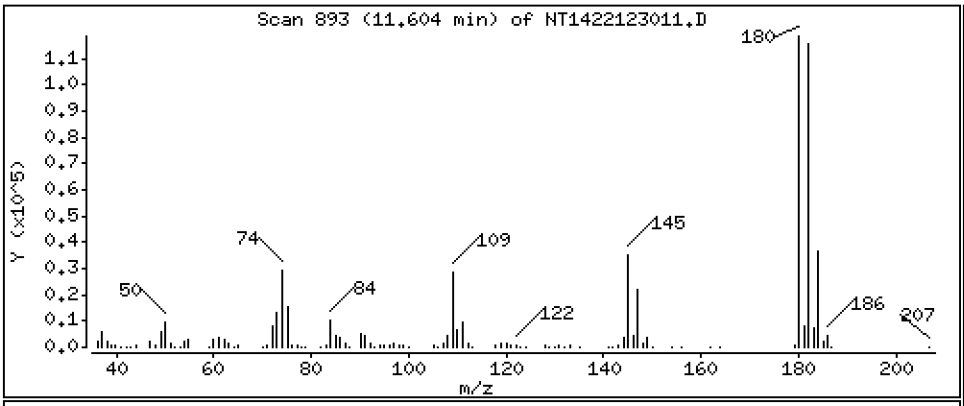
Operator: VTS

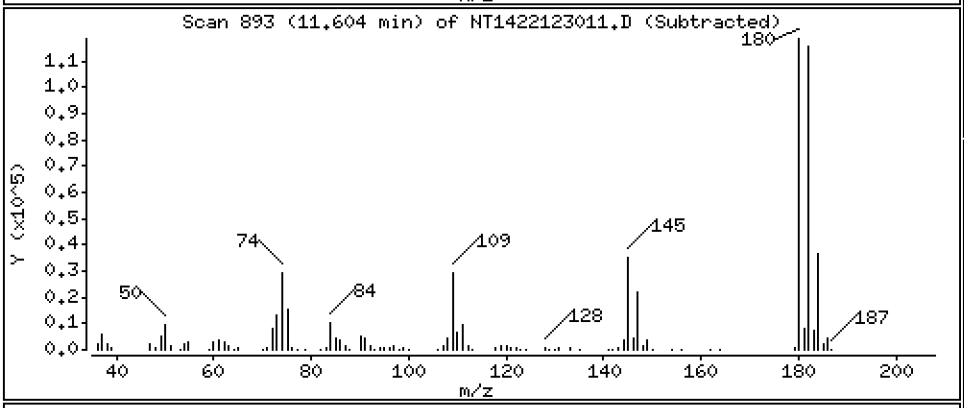
Column phase: ZB-5msi

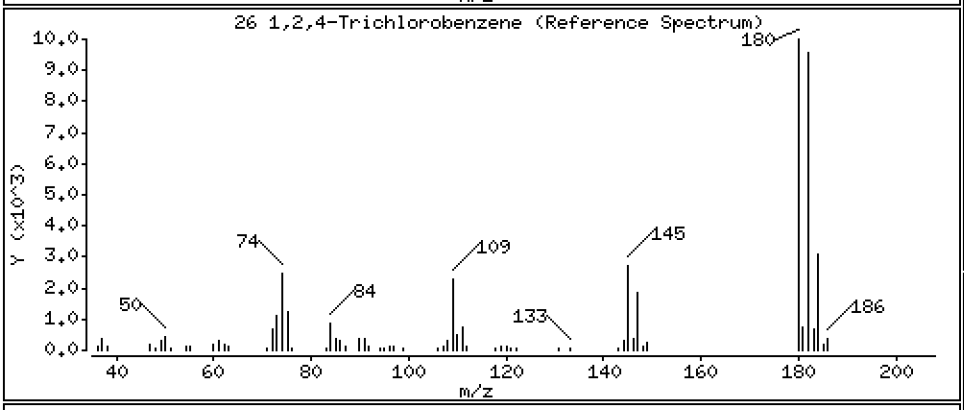
Column diameter: 0.25

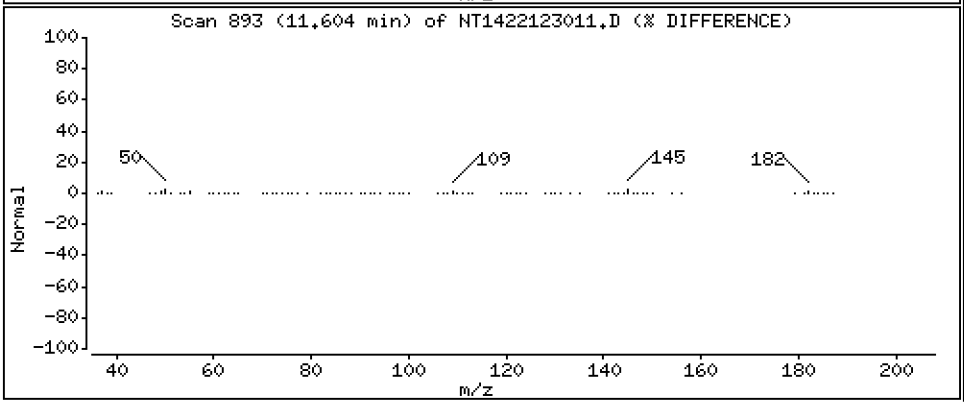
26 1,2,4-Trichlorobenzene

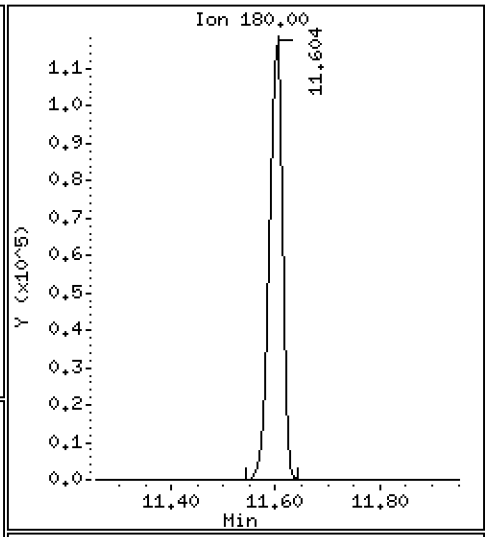
Concentration: 4.574 ug/mL

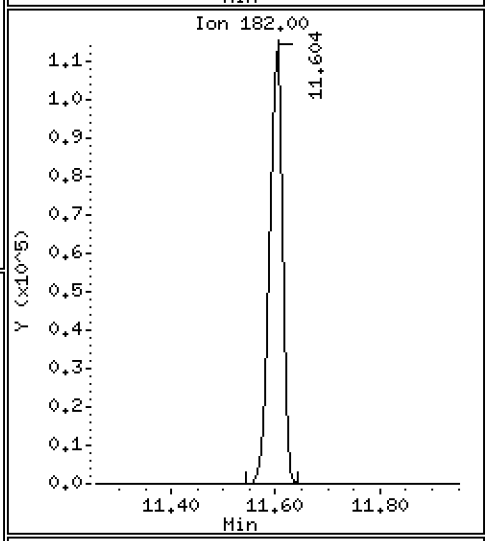


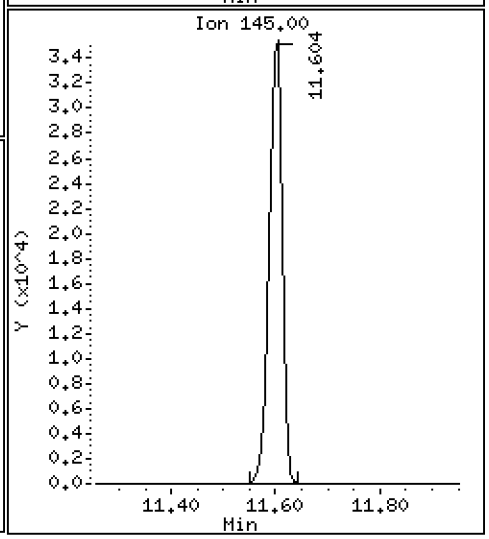












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

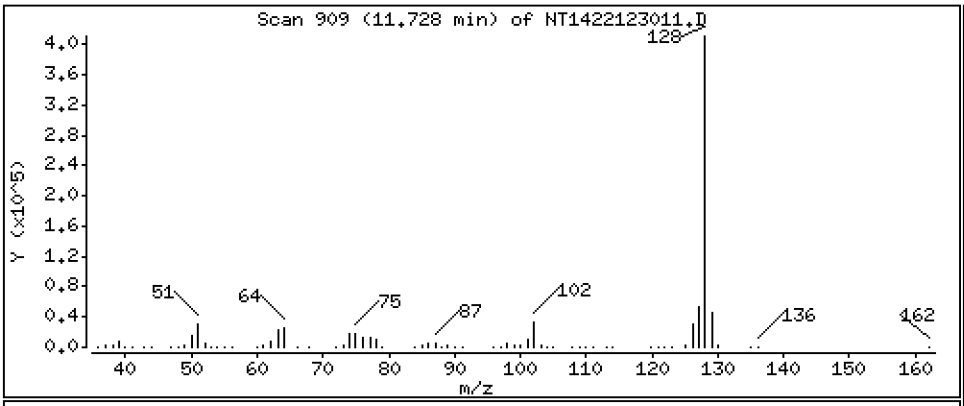
Operator: VTS

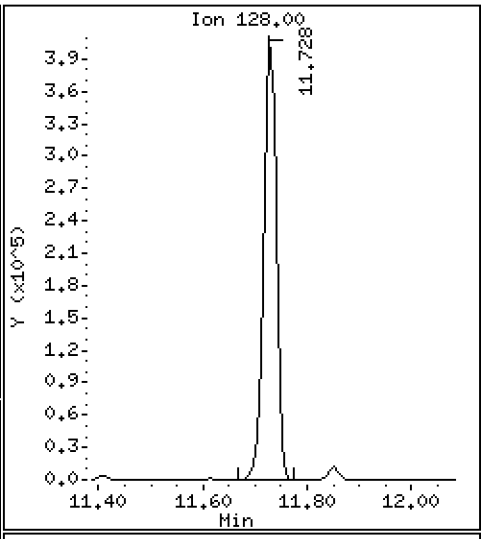
Column phase: ZB-5msi

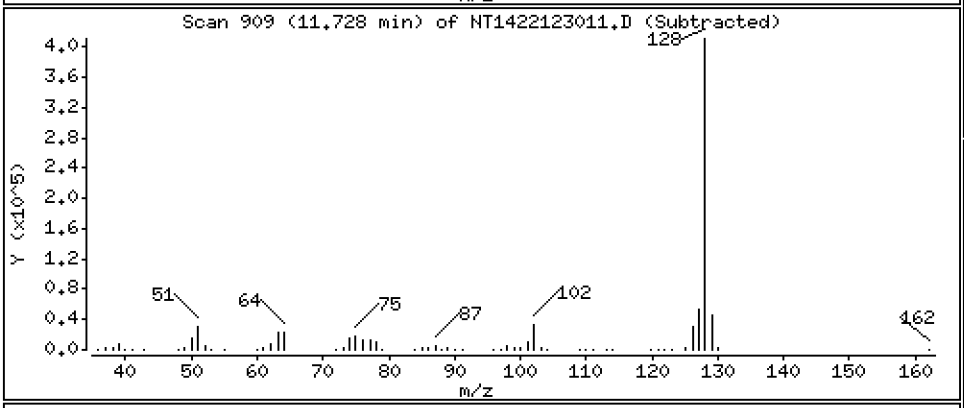
Column diameter: 0.25

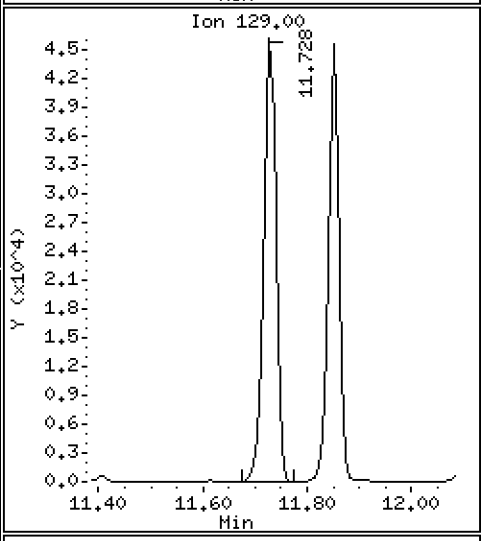
28 Naphthalene

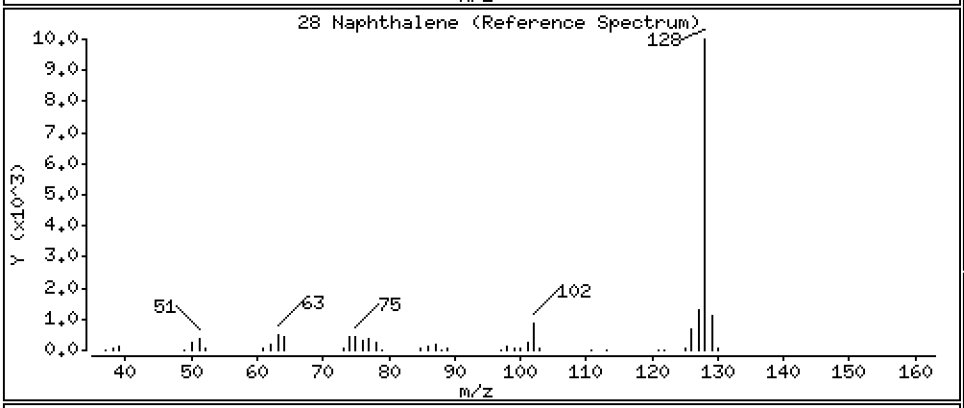
Concentration: 4.812 ug/mL

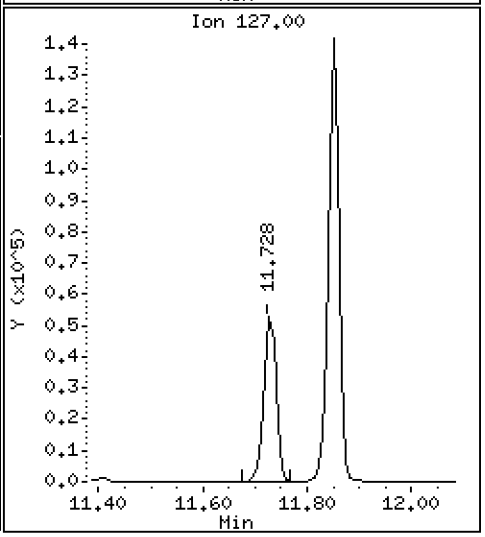


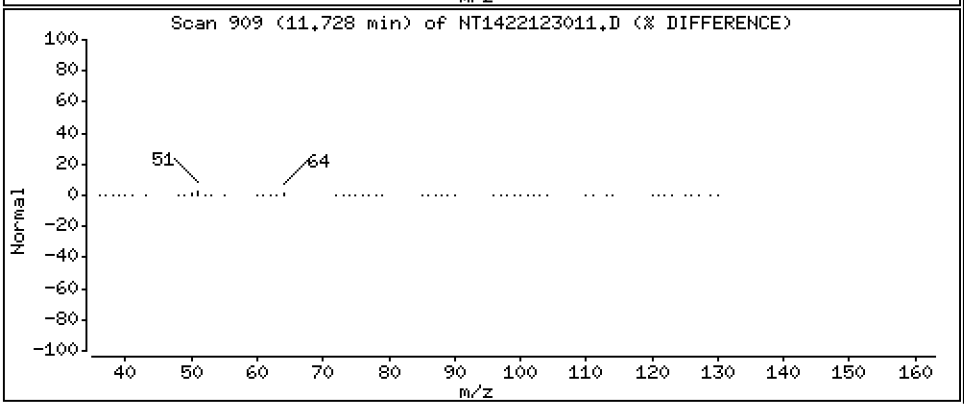












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

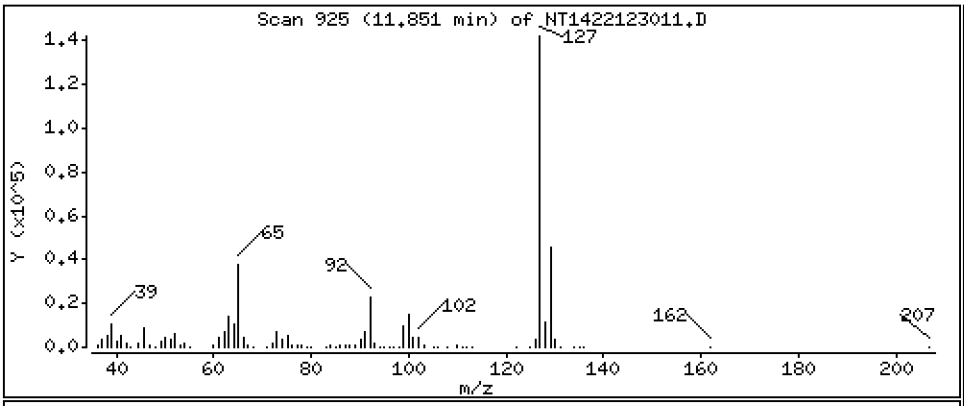
Operator: VTS

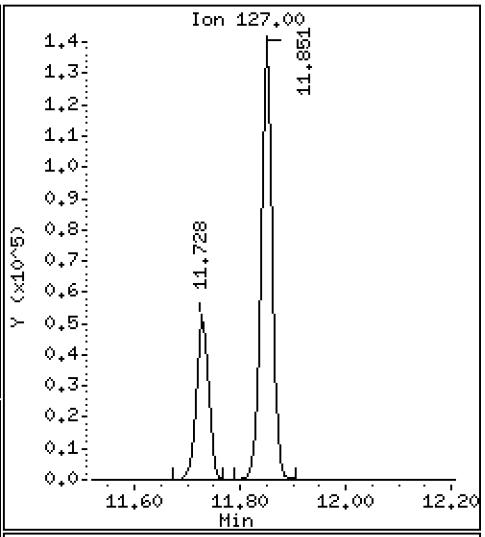
Column phase: ZB-5msi

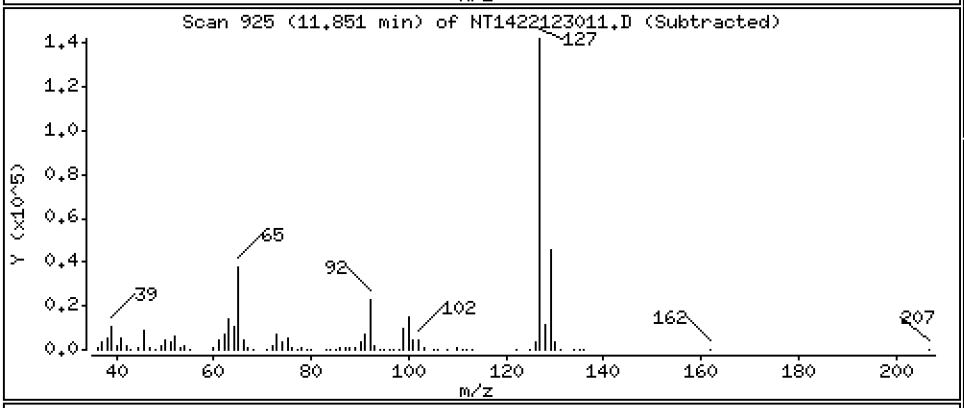
Column diameter: 0.25

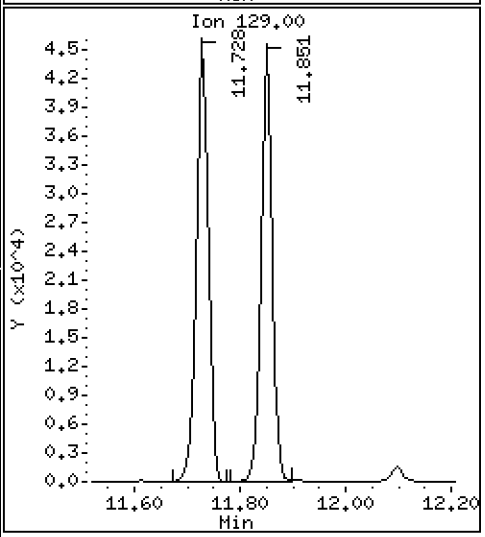
29 4-Chloroaniline

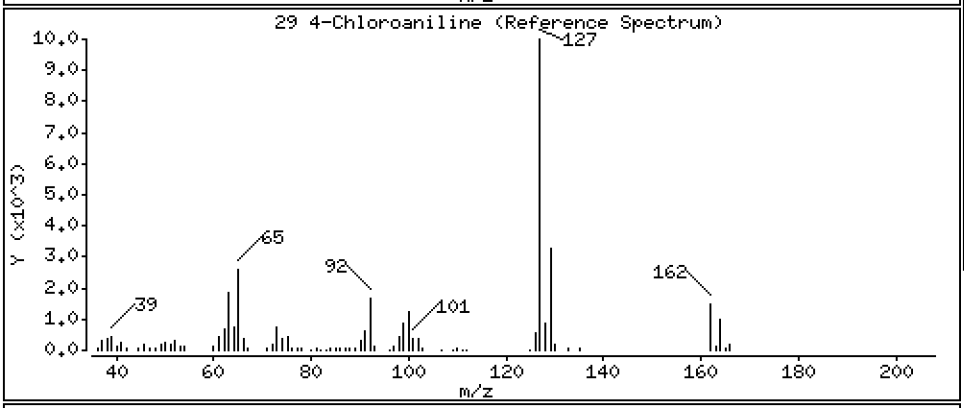
Concentration: 3.849 ug/mL

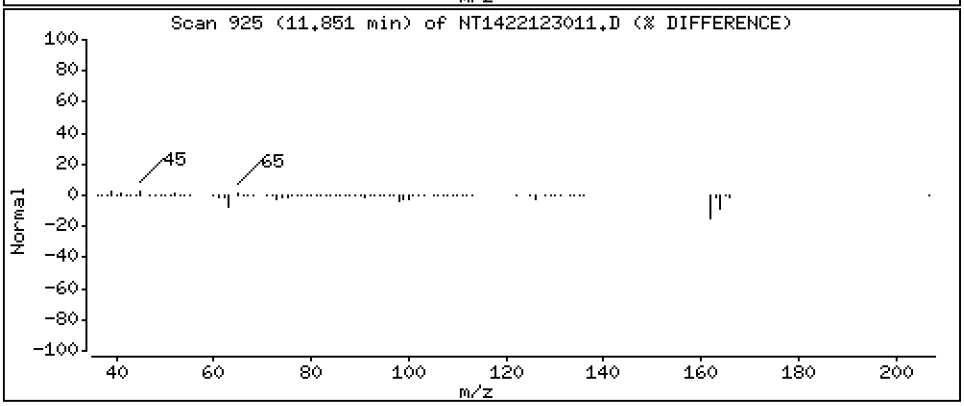












Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123011.D

Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

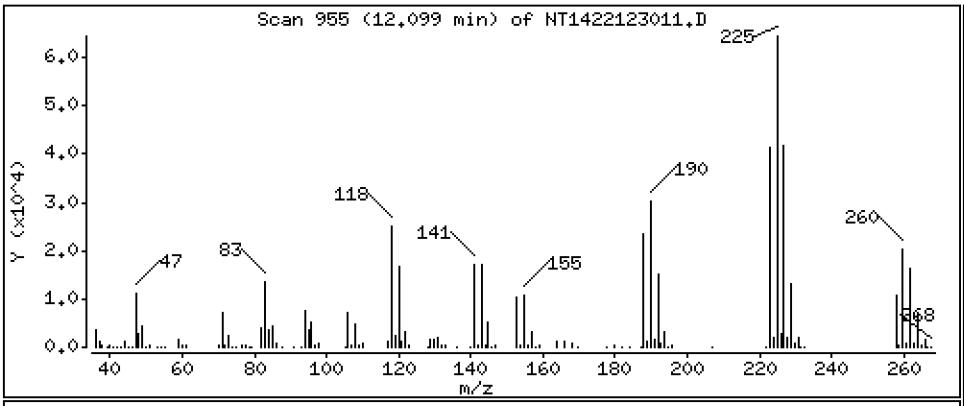
Operator: VTS

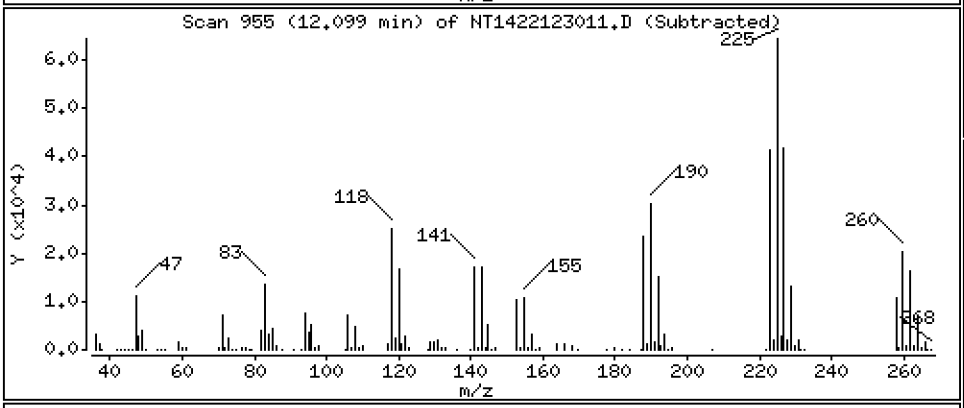
Column phase: ZB-5msi

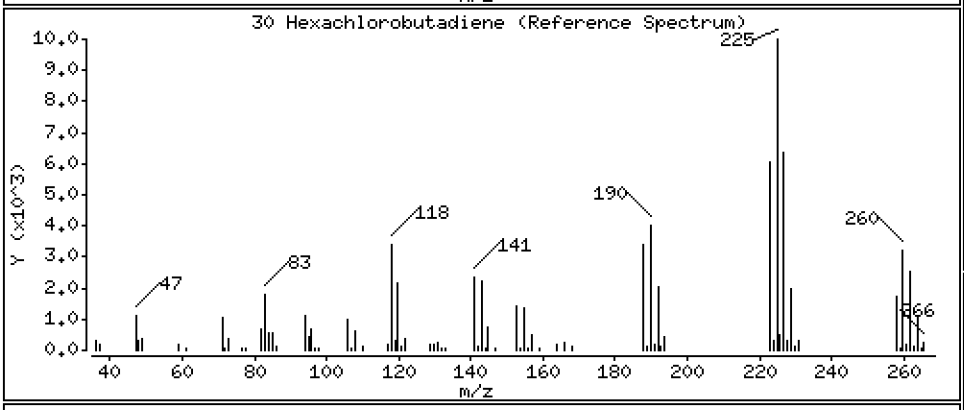
Column diameter: 0.25

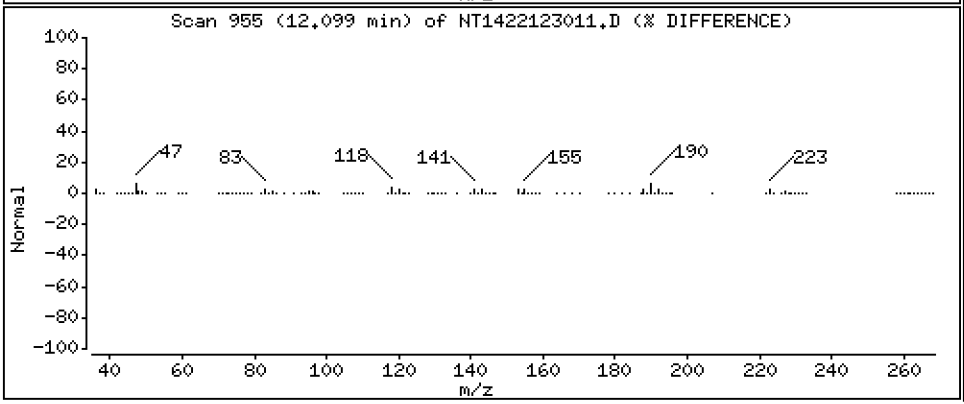
30 Hexachlorobutadiene

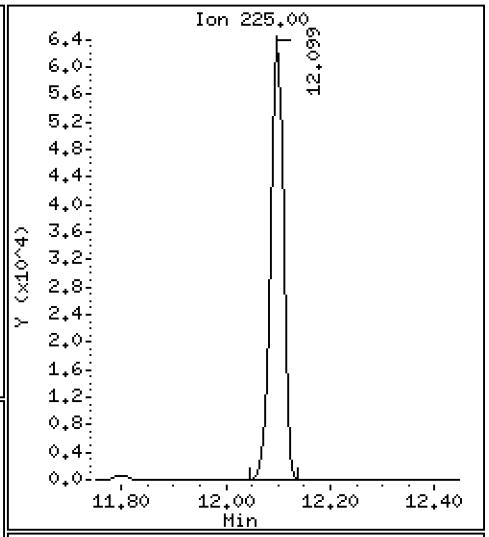
Concentration: 4.823 ug/mL

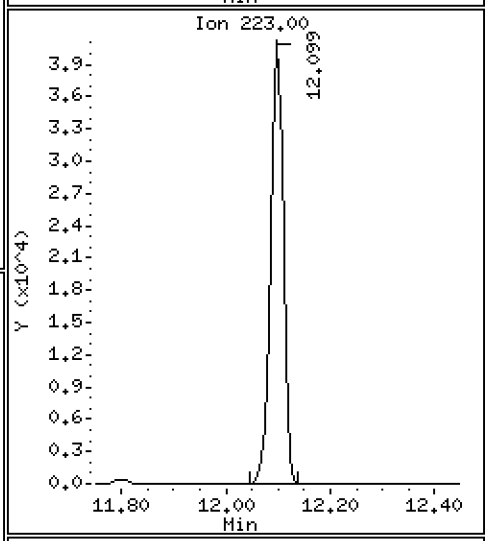


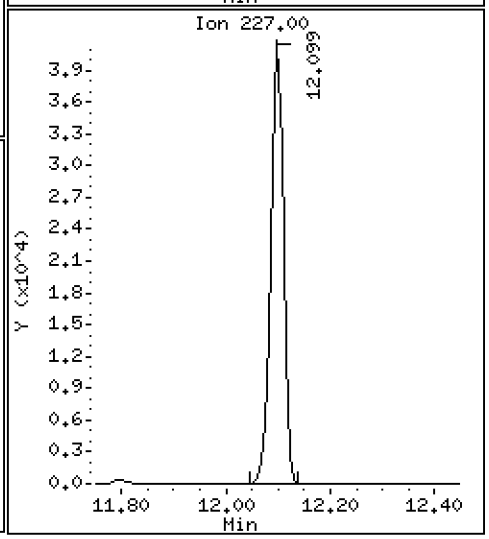












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

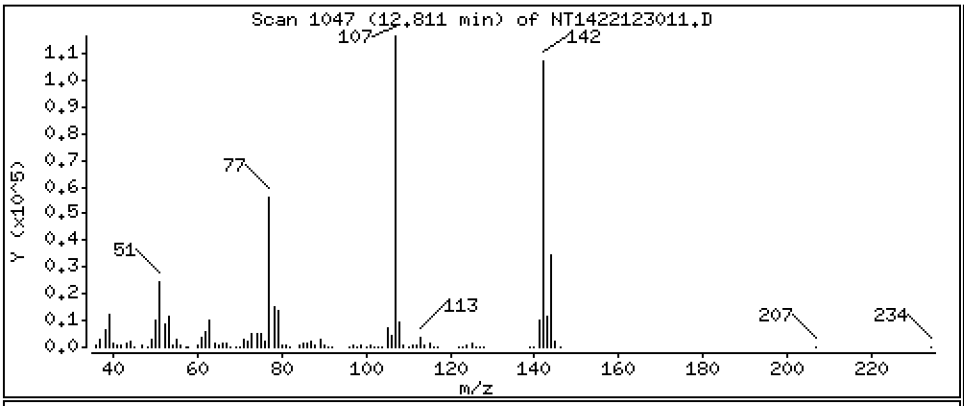
Operator: VTS

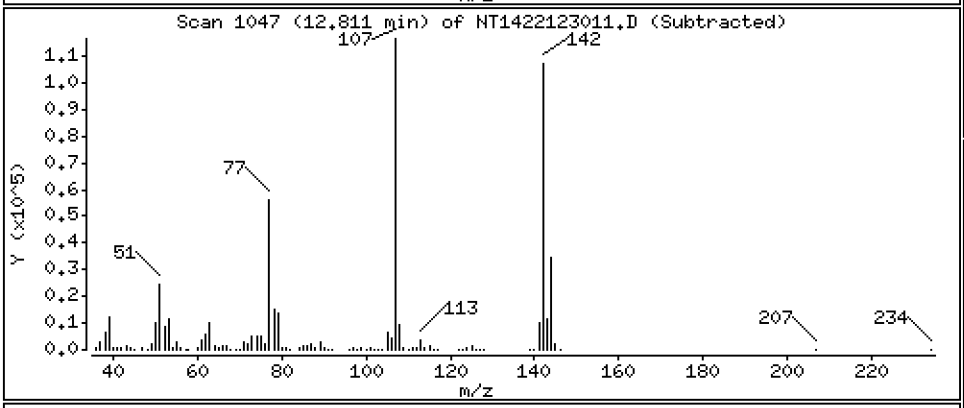
Column phase: ZB-5msi

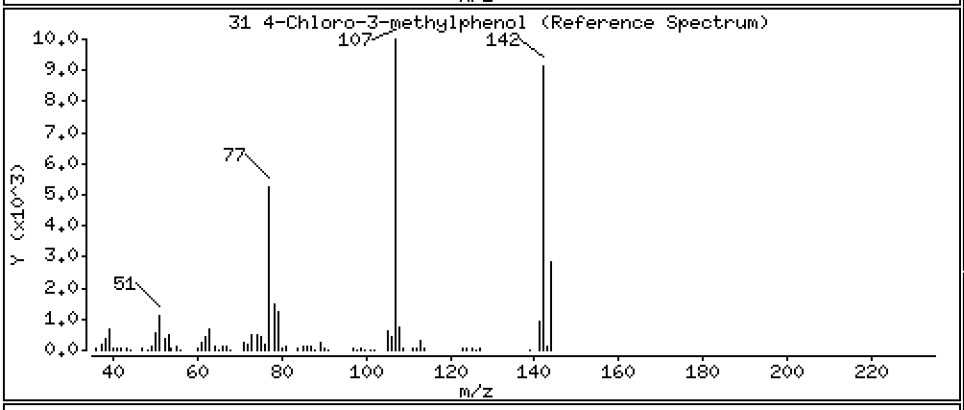
Column diameter: 0.25

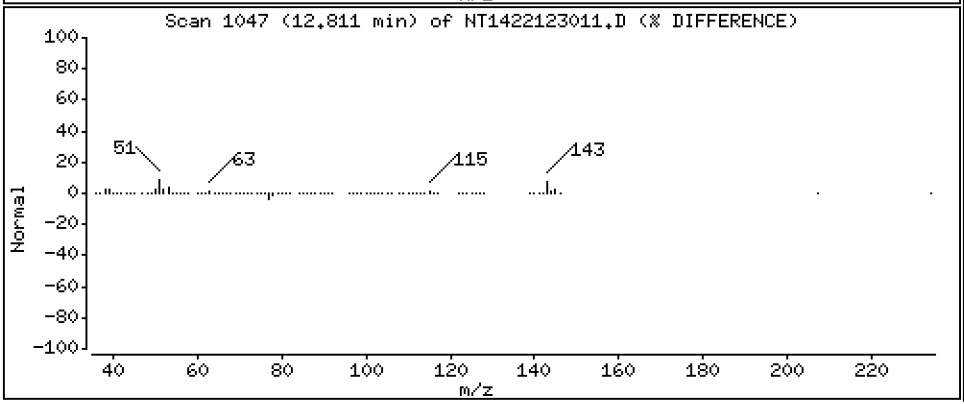
31 4-Chloro-3-methylphenol

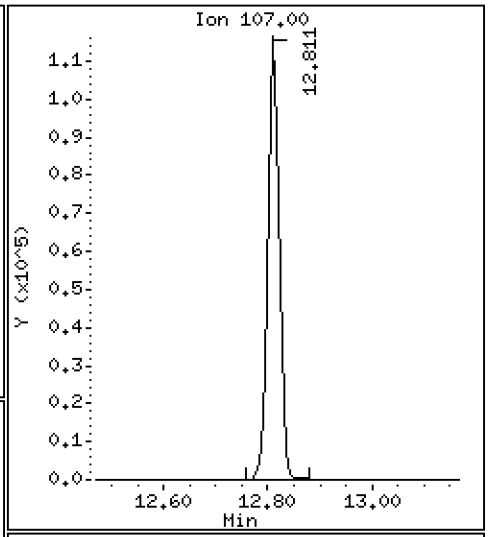
Concentration: 4.522 ug/mL

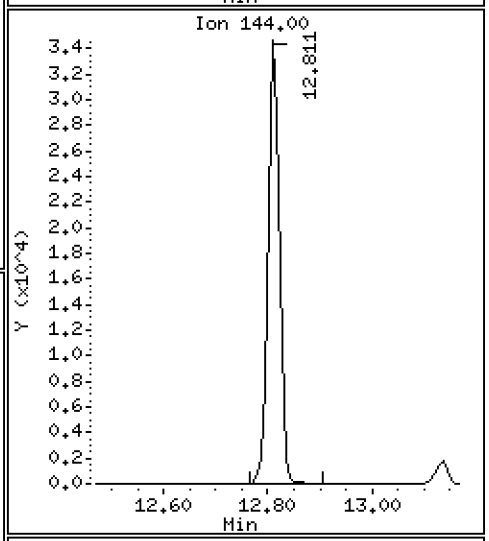


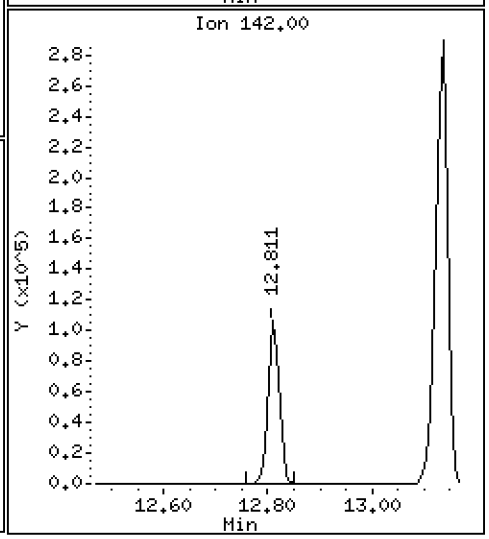












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

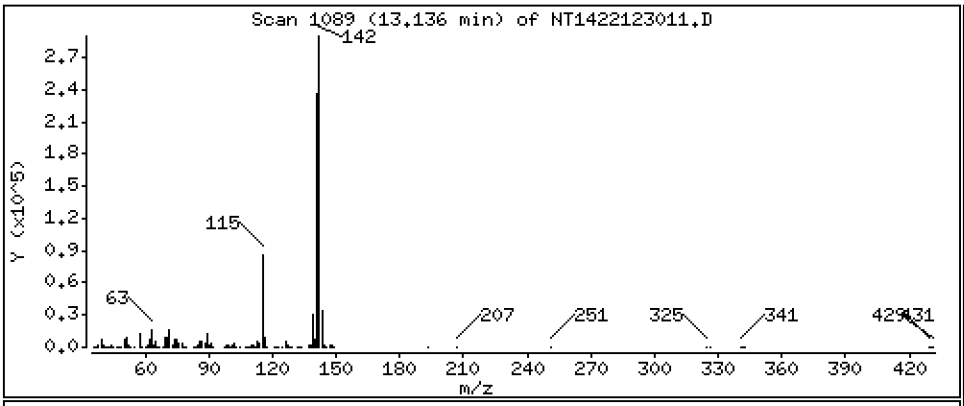
Operator: VTS

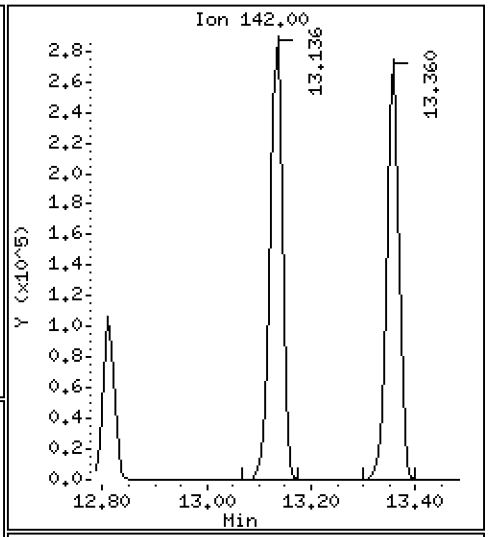
Column phase: ZB-5msi

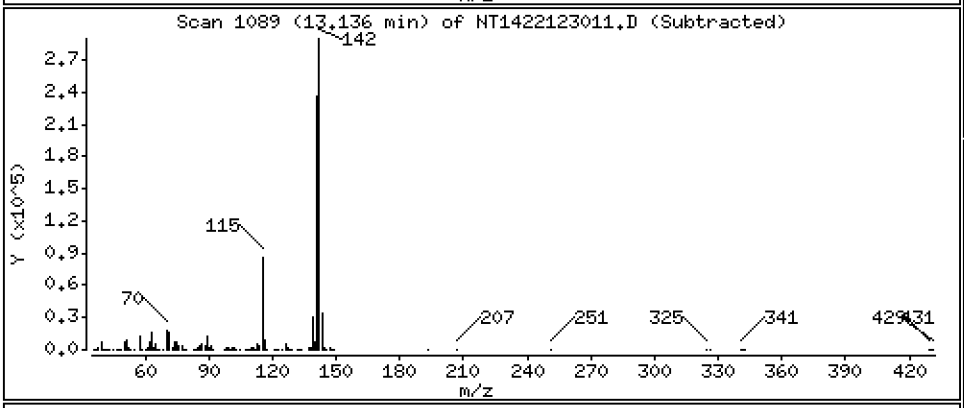
Column diameter: 0.25

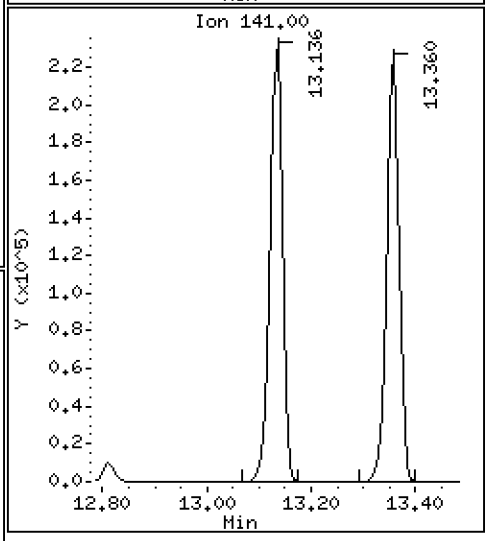
32 2-Methylnaphthalene

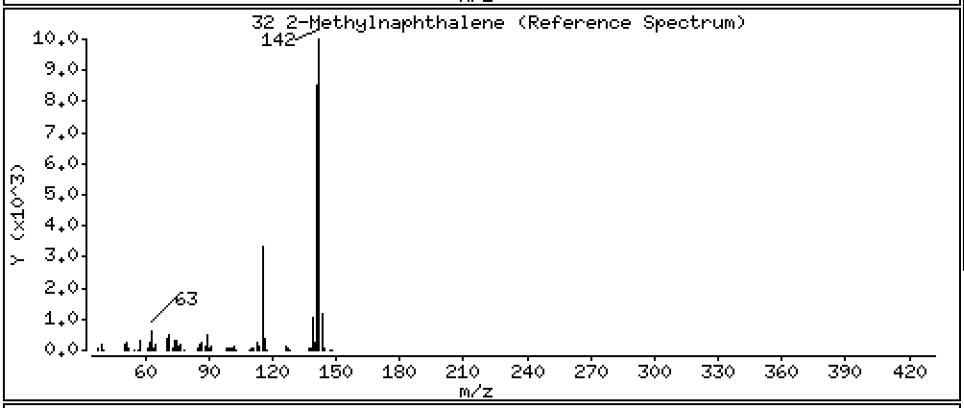
Concentration: 4.616 ug/mL

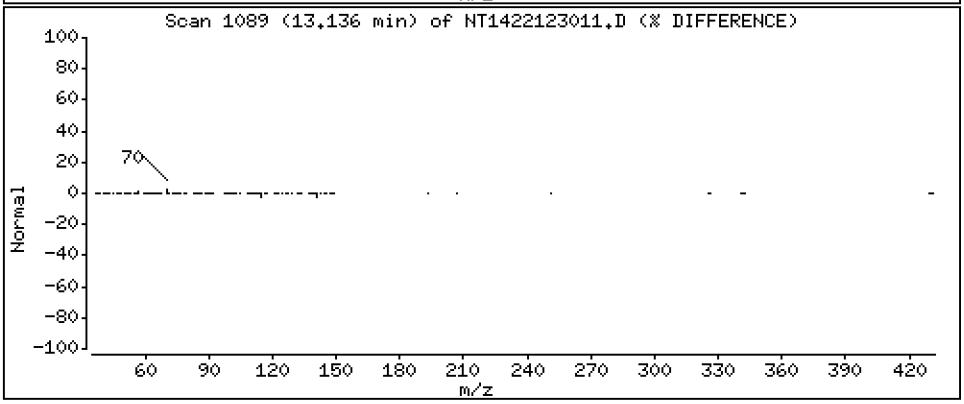












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

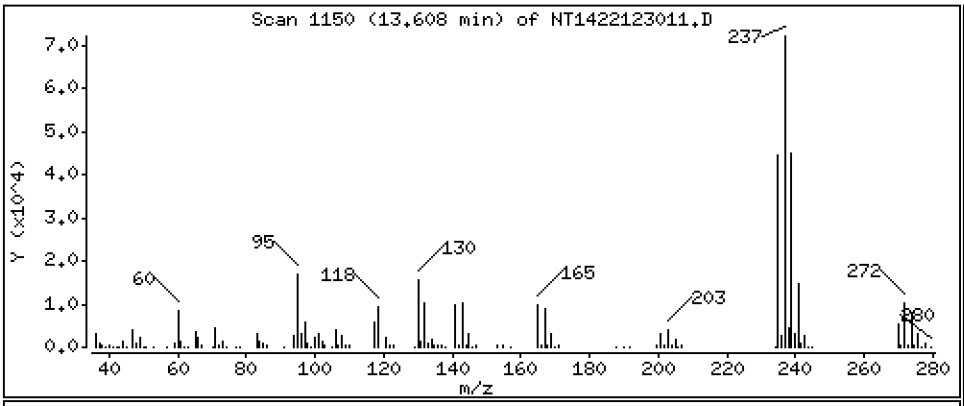
Operator: VTS

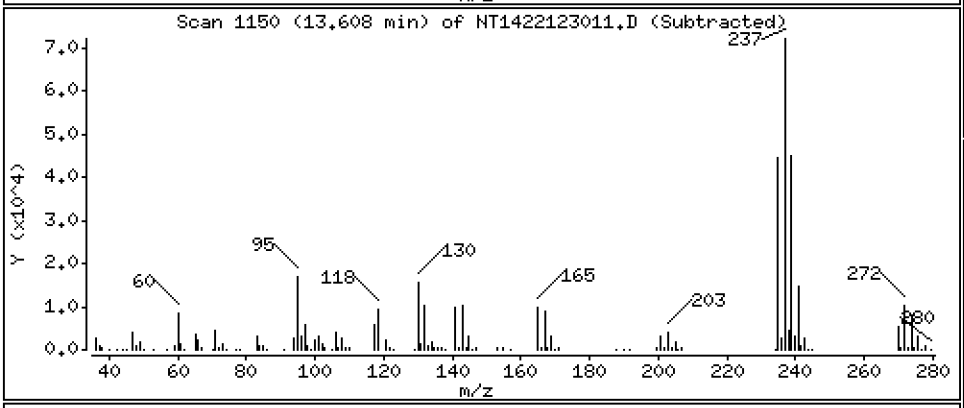
Column phase: ZB-5msi

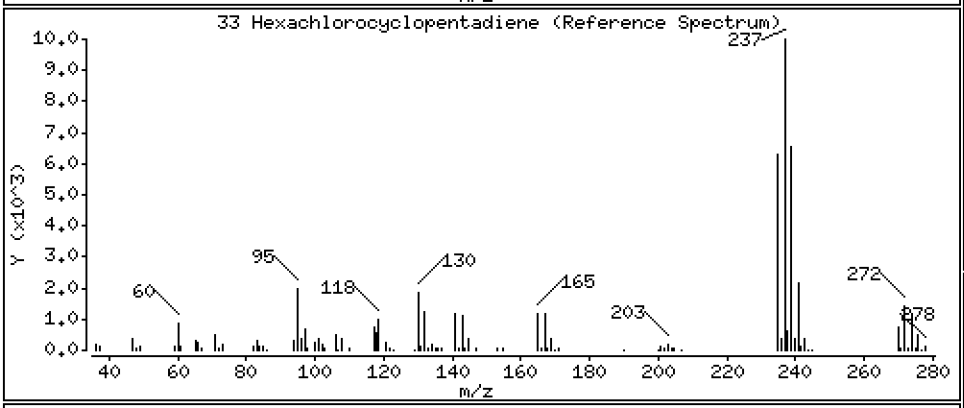
Column diameter: 0.25

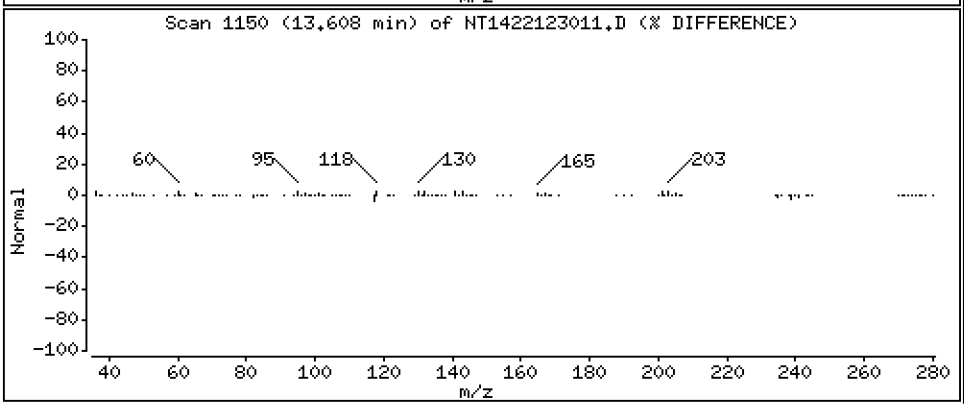
33 Hexachlorocyclopentadiene

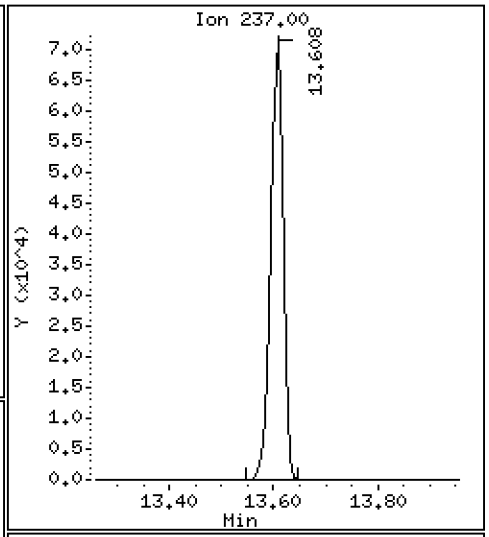
Concentration: 5.081 ug/mL

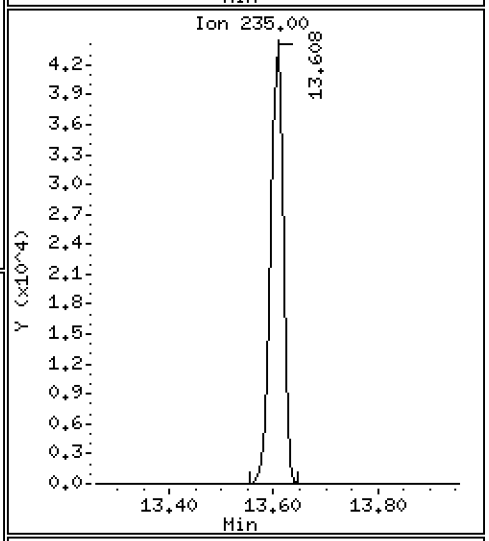


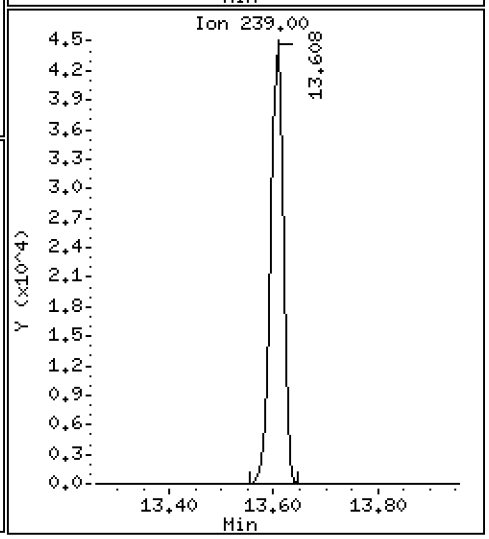












Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123011.D

Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

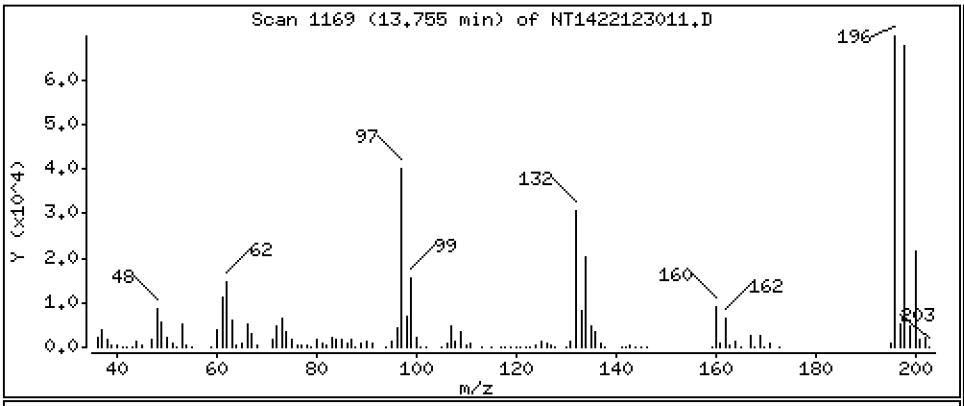
Operator: VTS

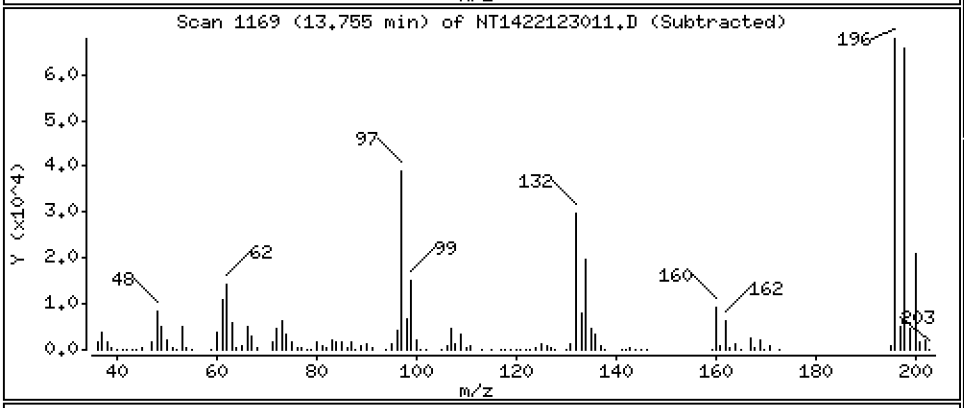
Column phase: ZB-5msi

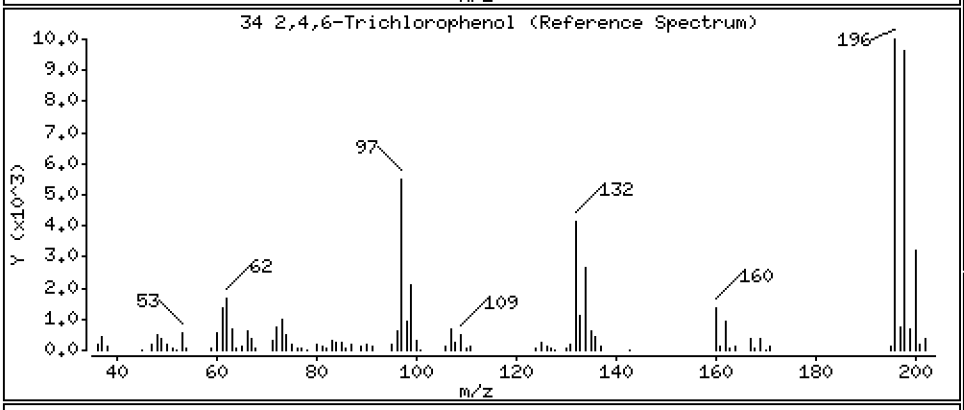
Column diameter: 0.25

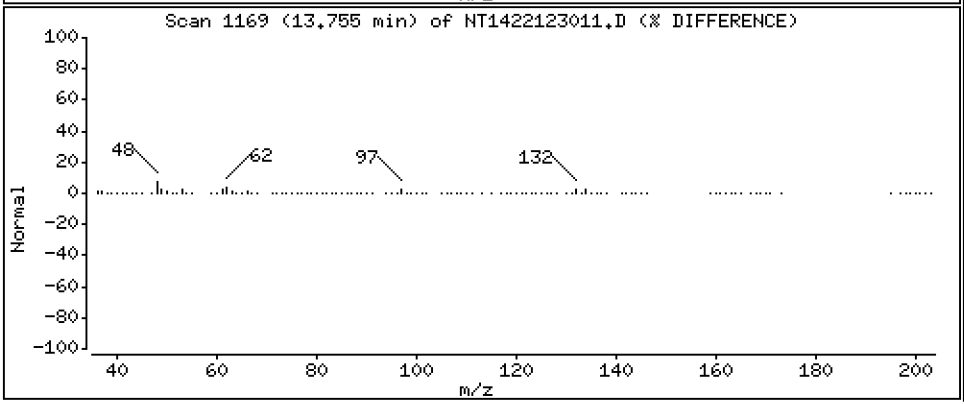
34 2,4,6-Trichlorophenol

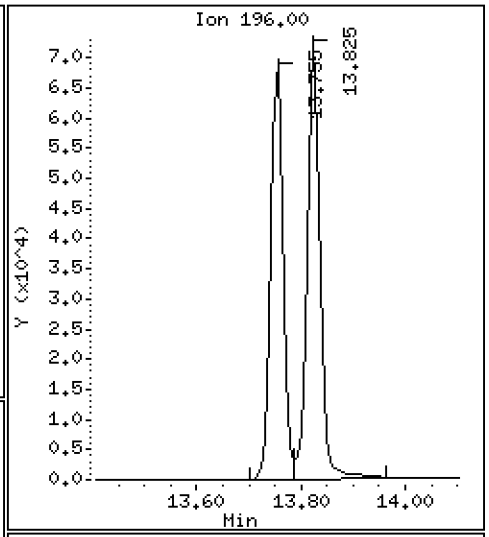
Concentration: 4.407 ug/mL

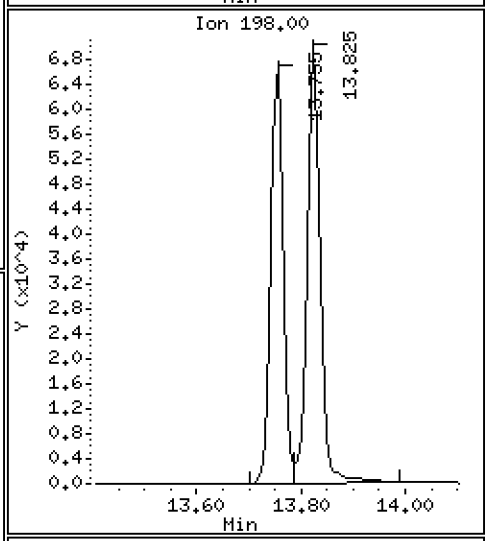


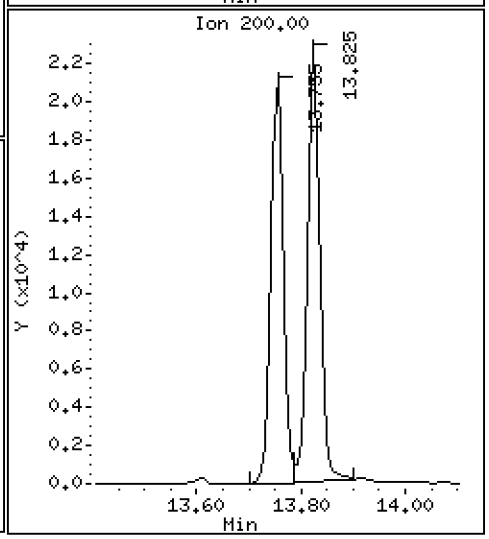












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

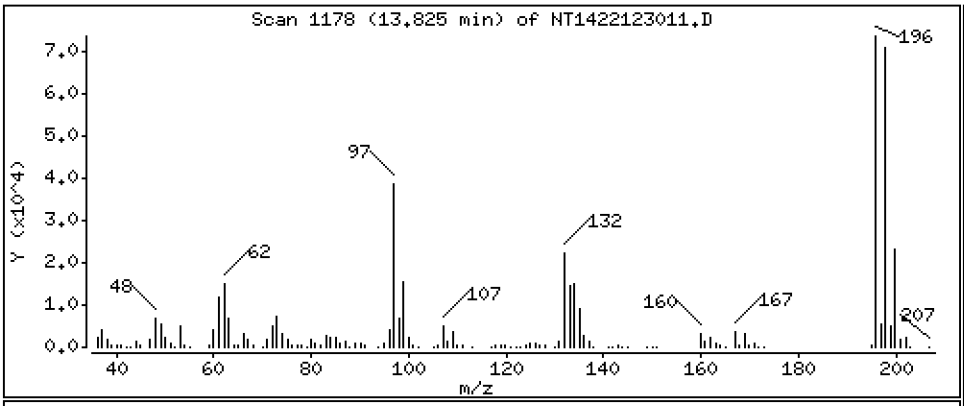
Operator: VTS

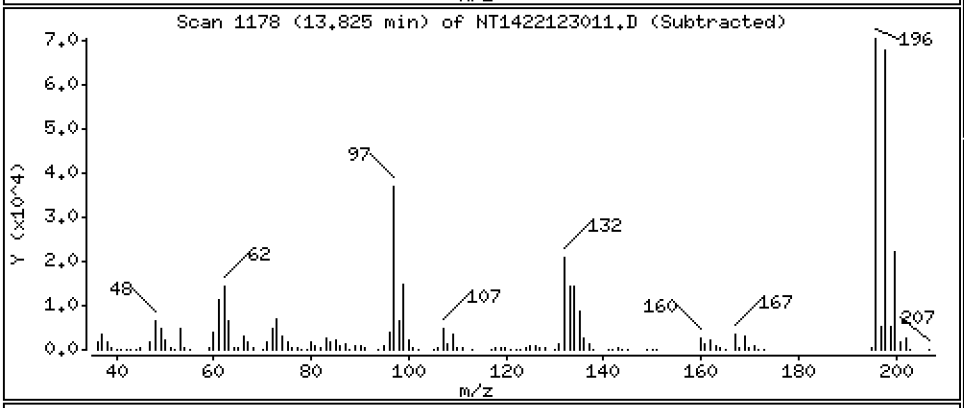
Column phase: ZB-5msi

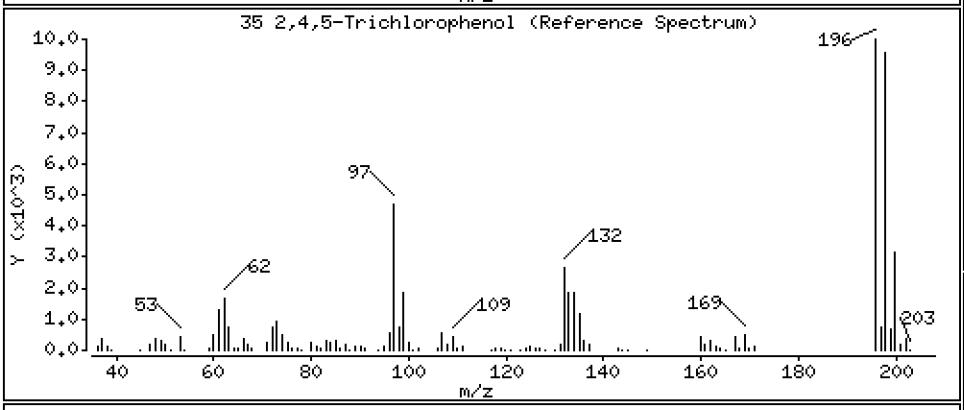
Column diameter: 0.25

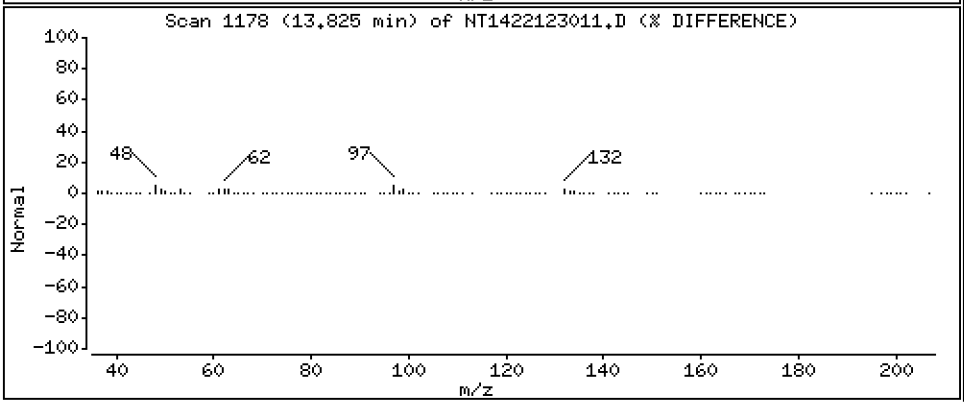
35 2,4,5-Trichlorophenol

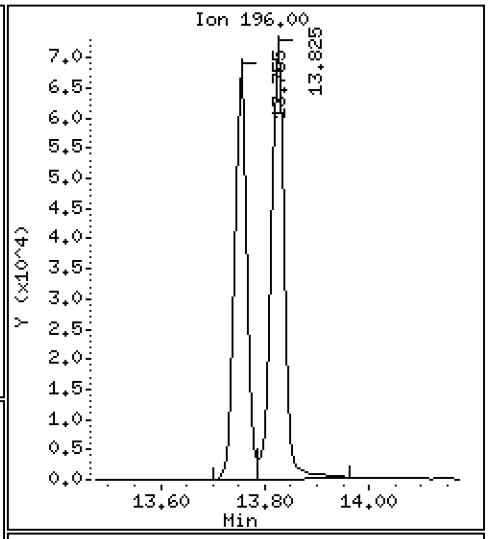
Concentration: 4.278 ug/mL

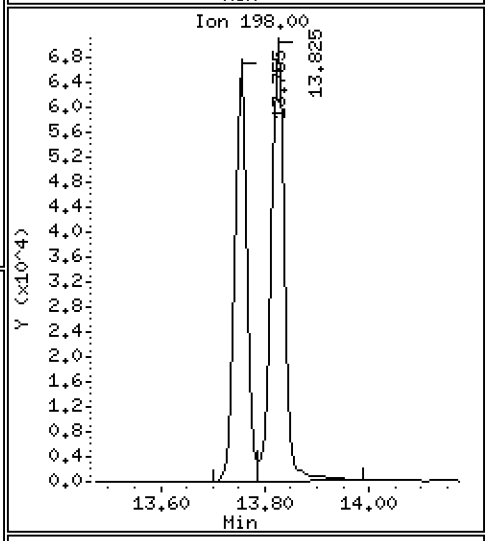


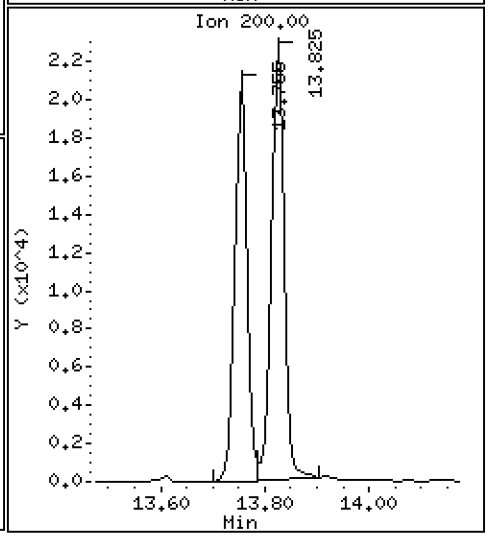












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

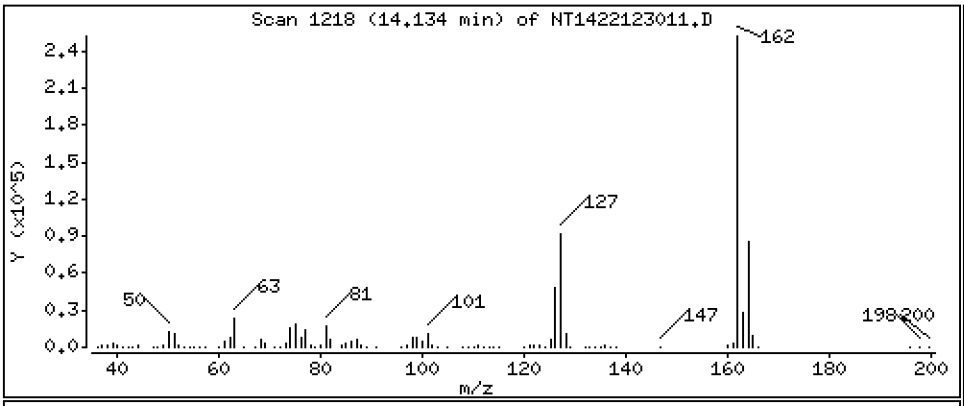
Operator: VTS

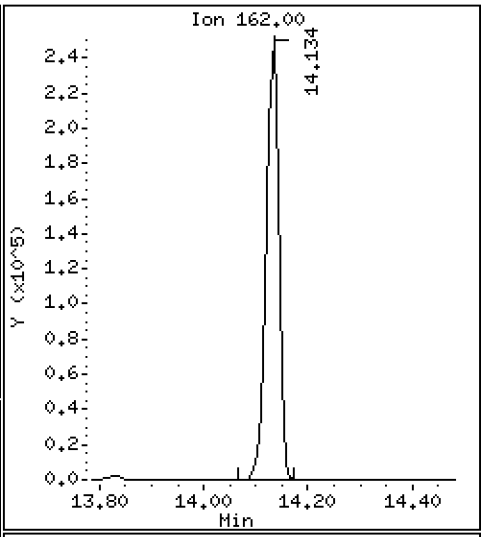
Column phase: ZB-5msi

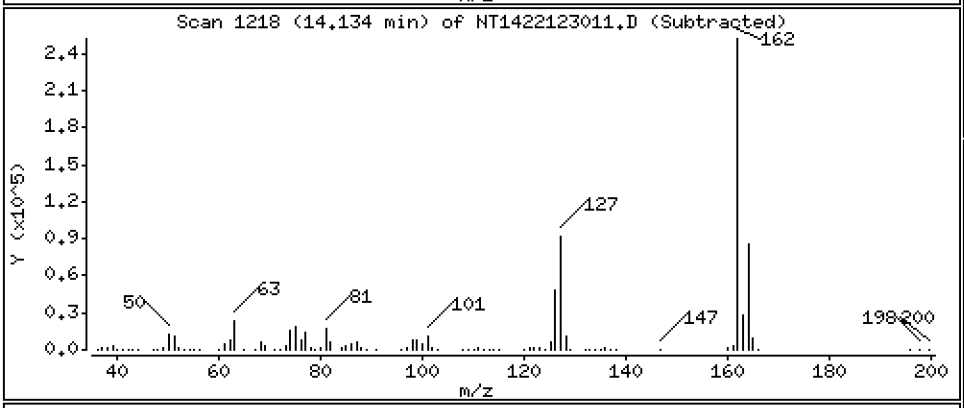
Column diameter: 0.25

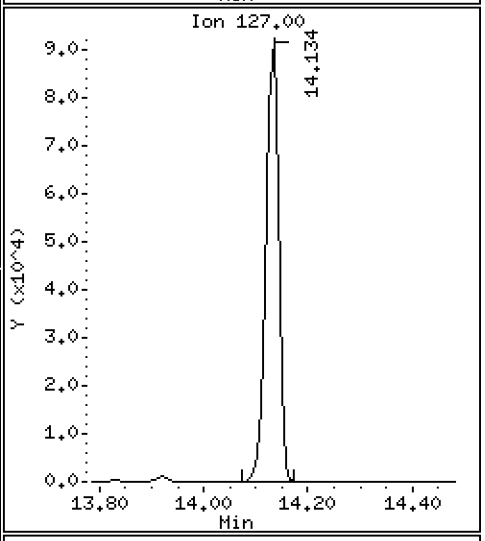
37 2-Chloronaphthalene

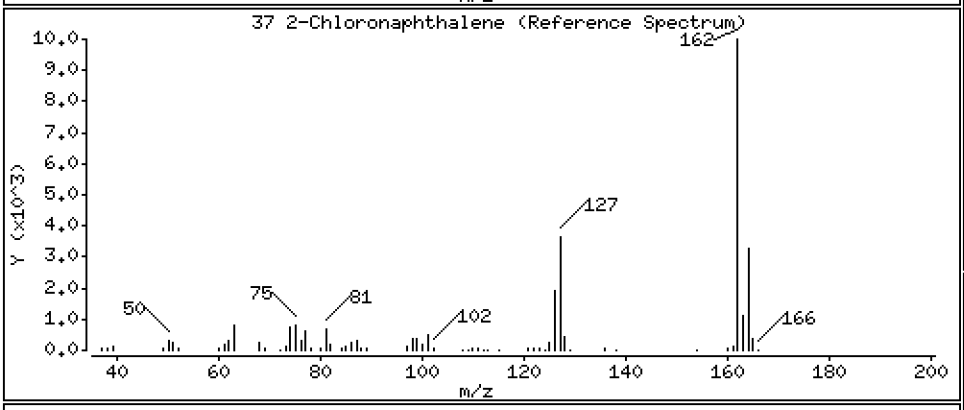
Concentration: 4.754 ug/mL

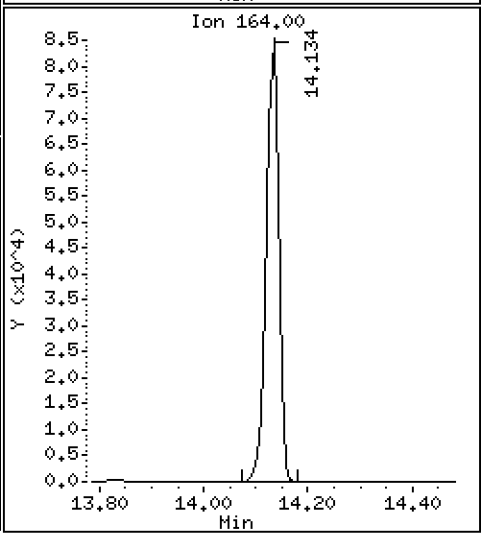


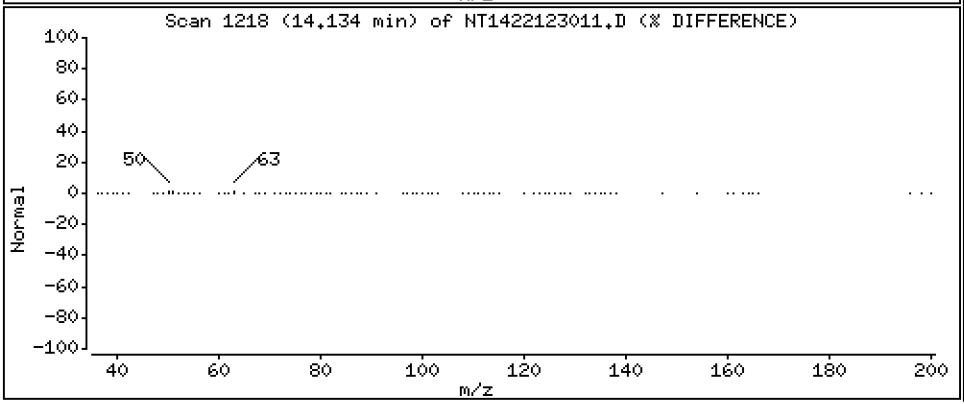












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

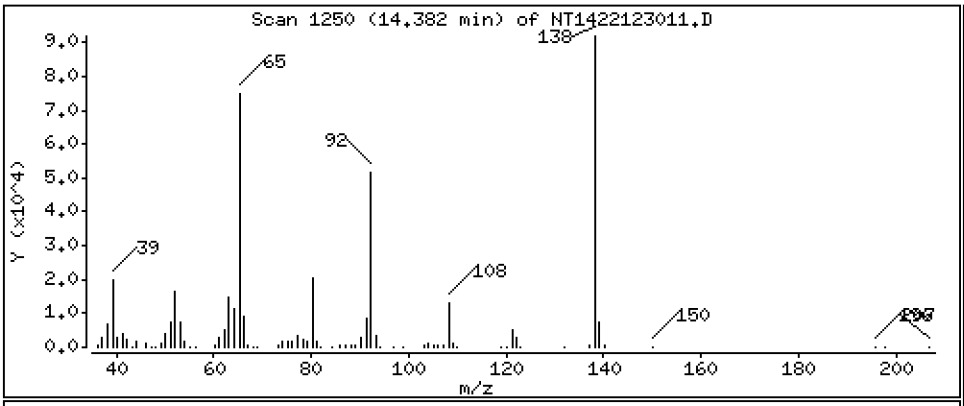
Operator: VTS

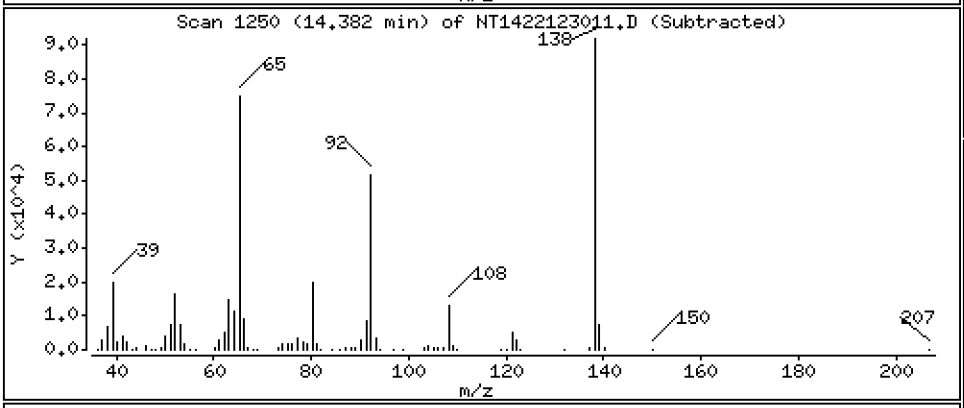
Column phase: ZB-5msi

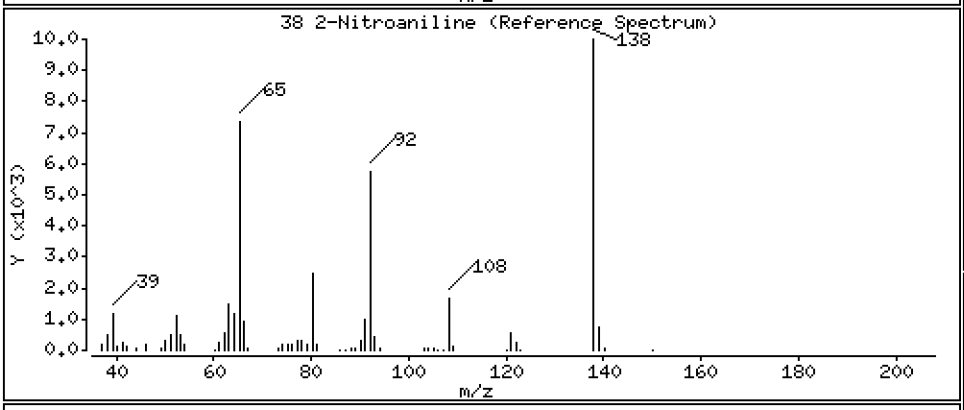
Column diameter: 0.25

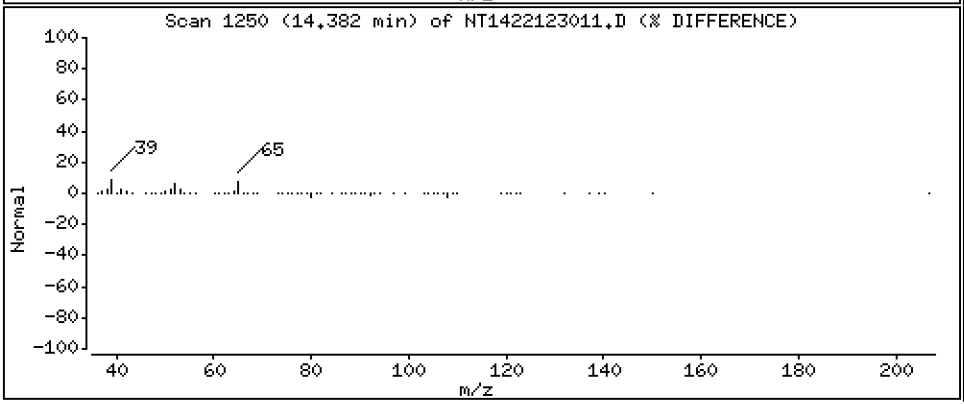
38 2-Nitroaniline

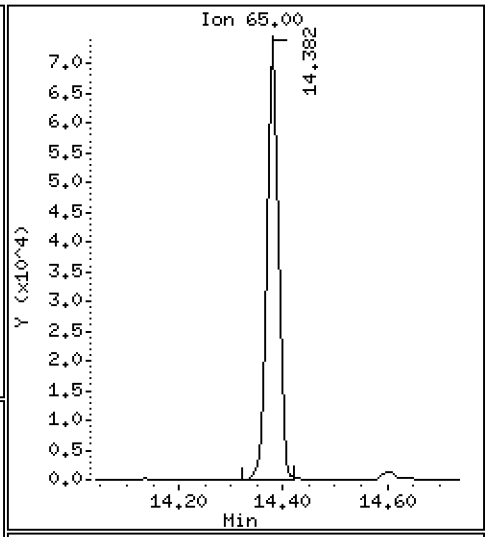
Concentration: 5.043 ug/mL

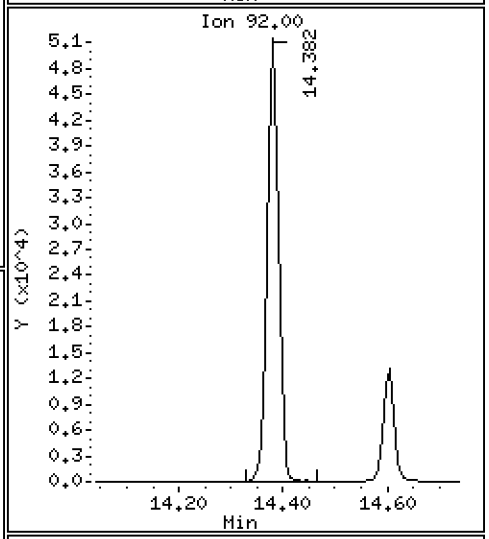


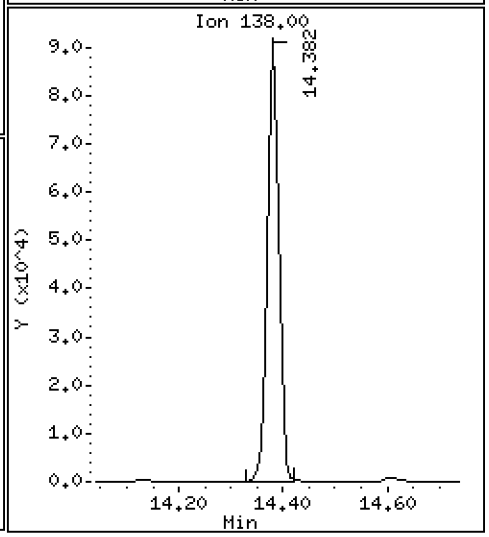












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

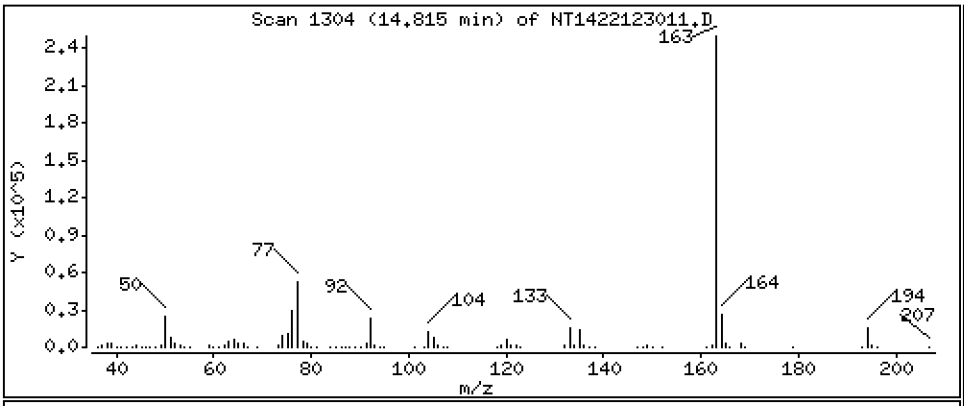
Operator: VTS

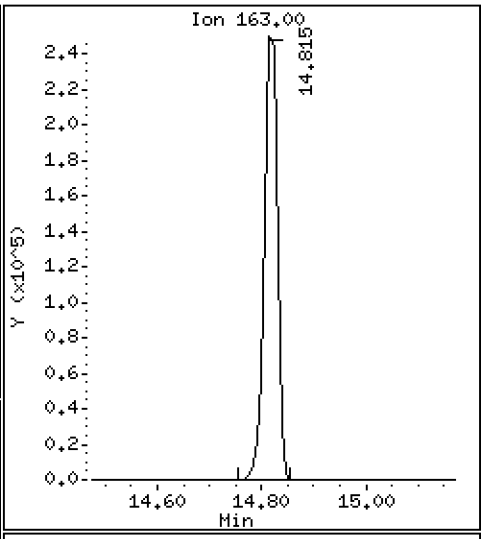
Column phase: ZB-5msi

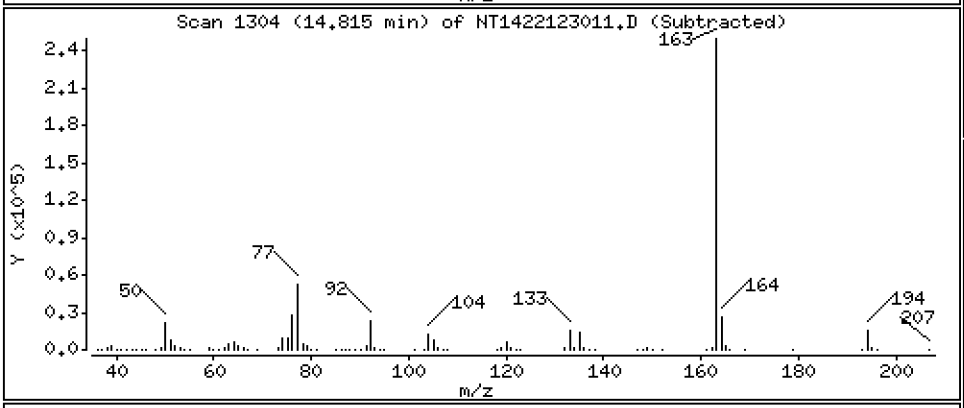
Column diameter: 0.25

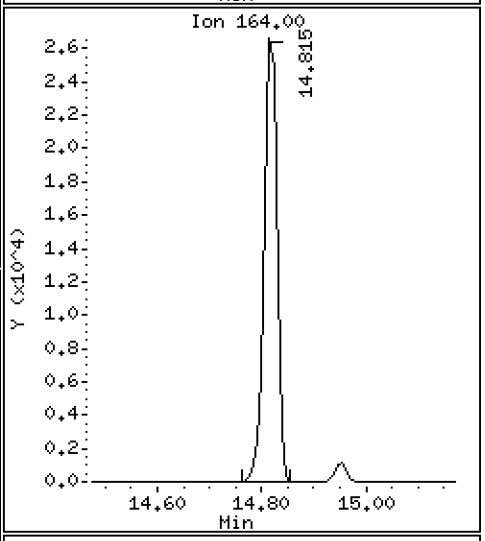
39 Dimethylphthalate

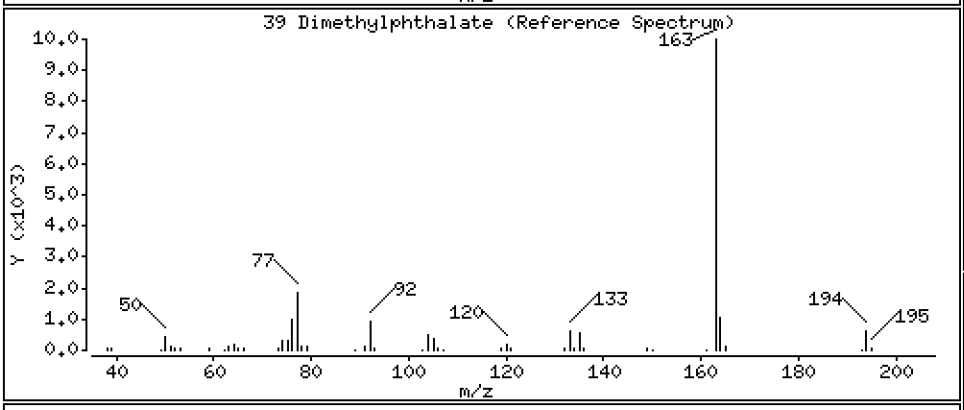
Concentration: 5.023 ug/mL

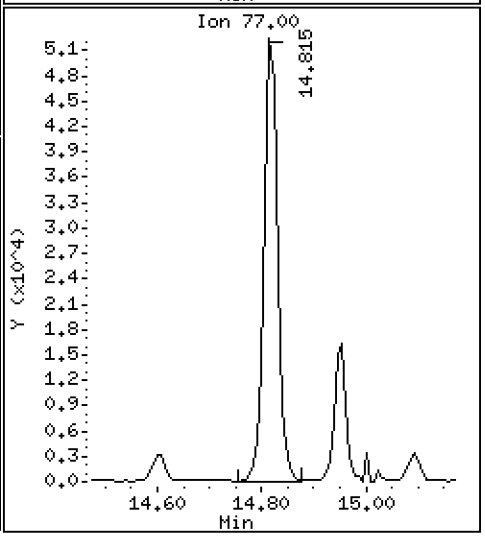


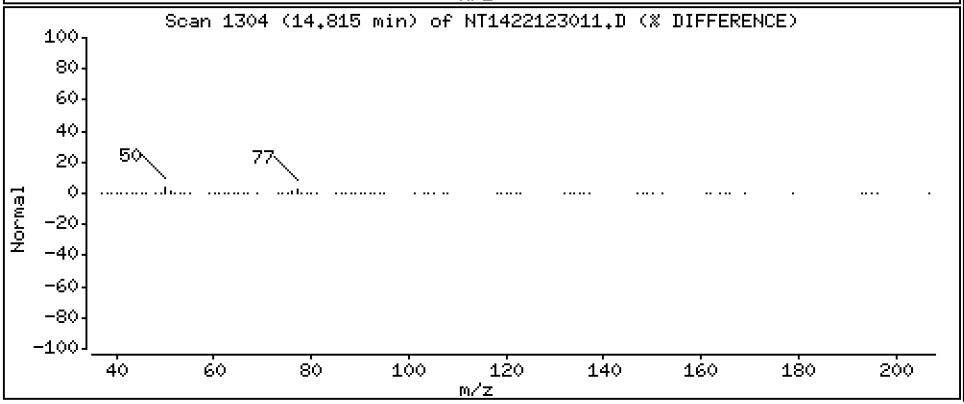












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

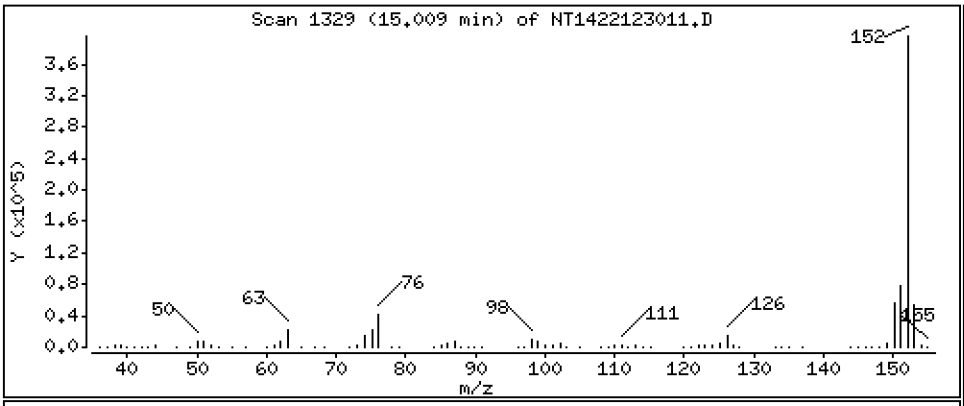
Operator: VTS

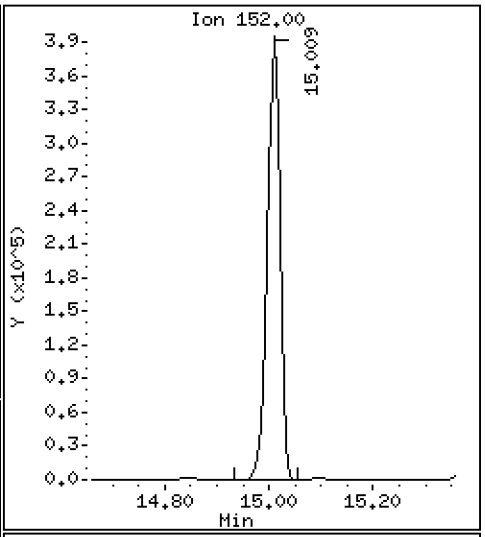
Column phase: ZB-5msi

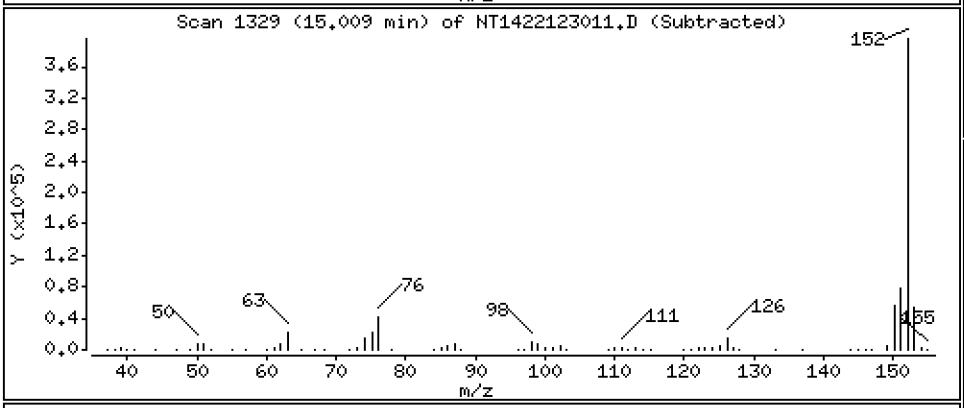
Column diameter: 0.25

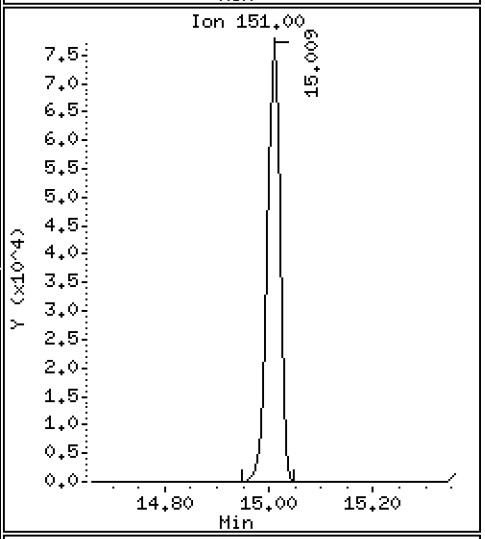
40 Acenaphthylene

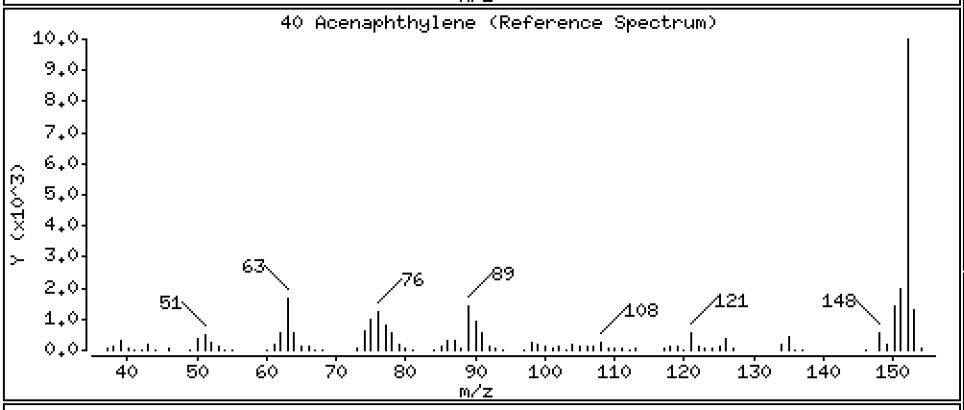
Concentration: 5.000 ug/mL

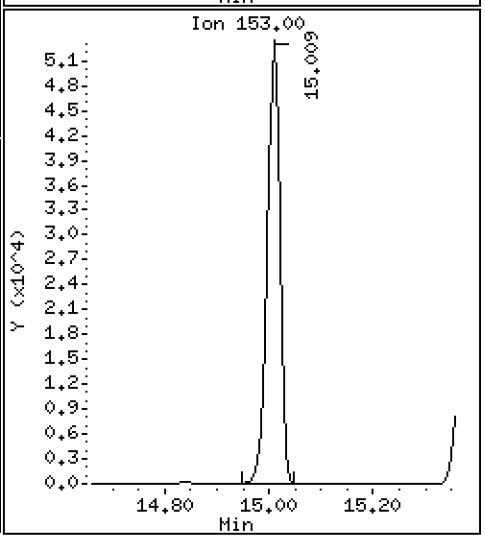


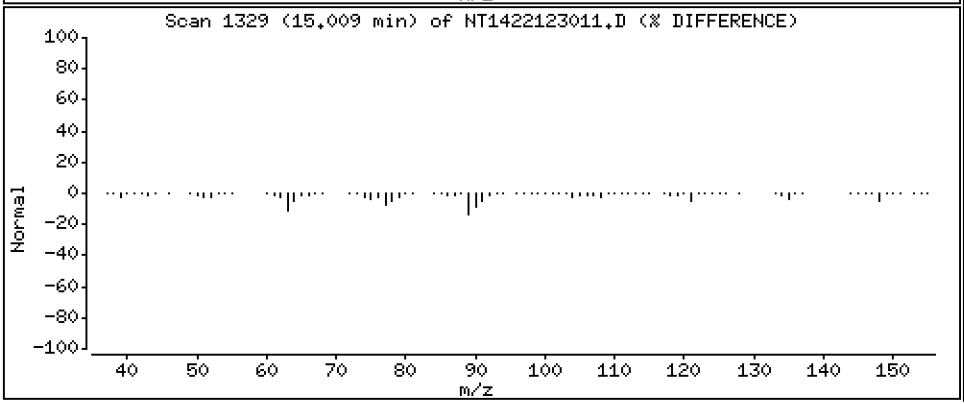












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

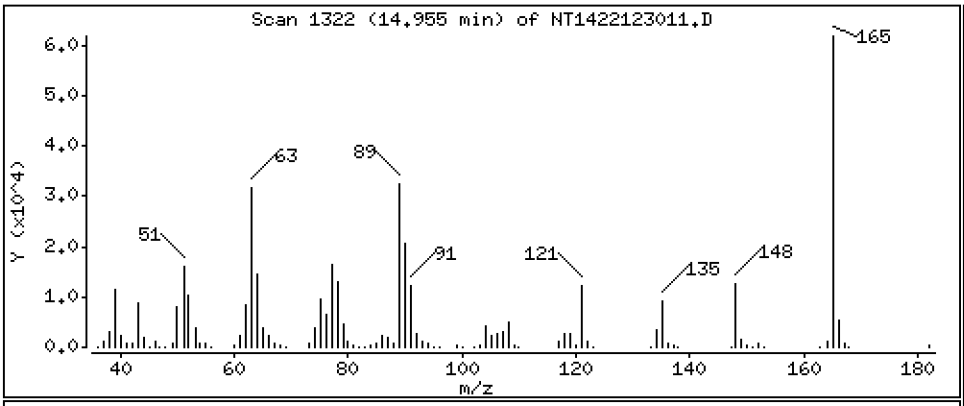
Operator: VTS

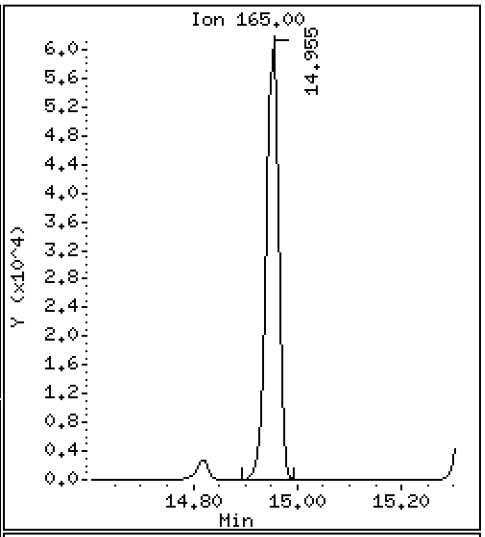
Column phase: ZB-5msi

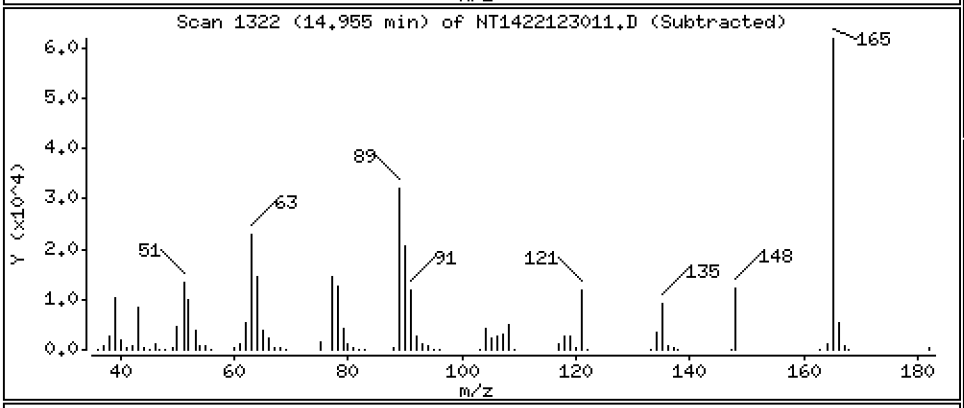
Column diameter: 0.25

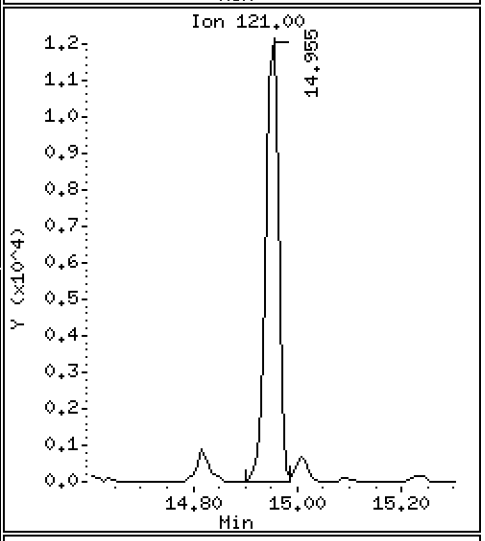
41 2,6-Dinitrotoluene

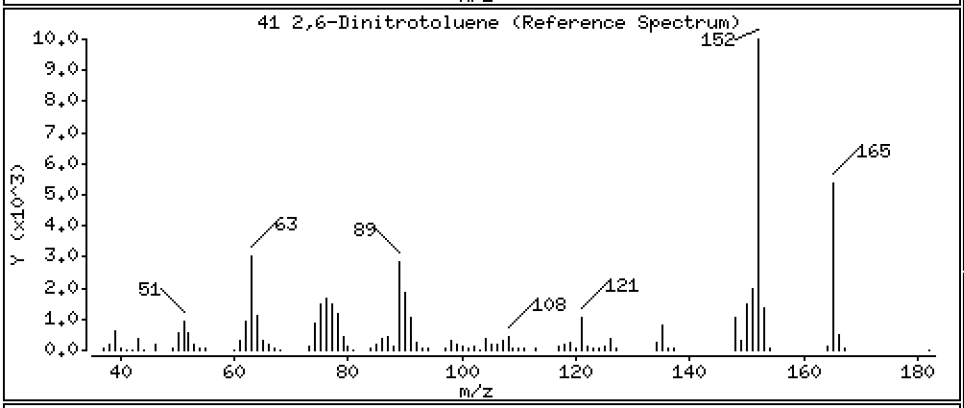
Concentration: 5.115 ug/mL

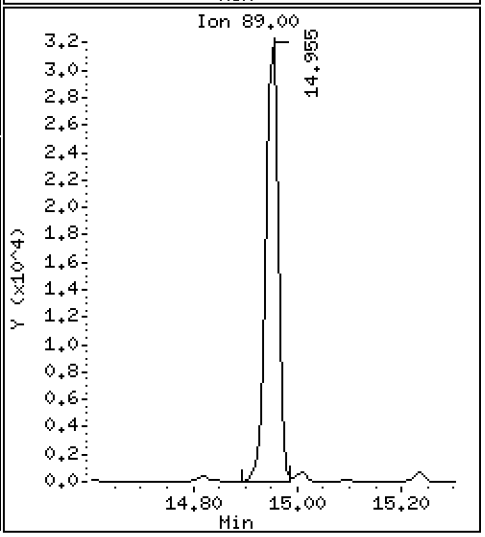


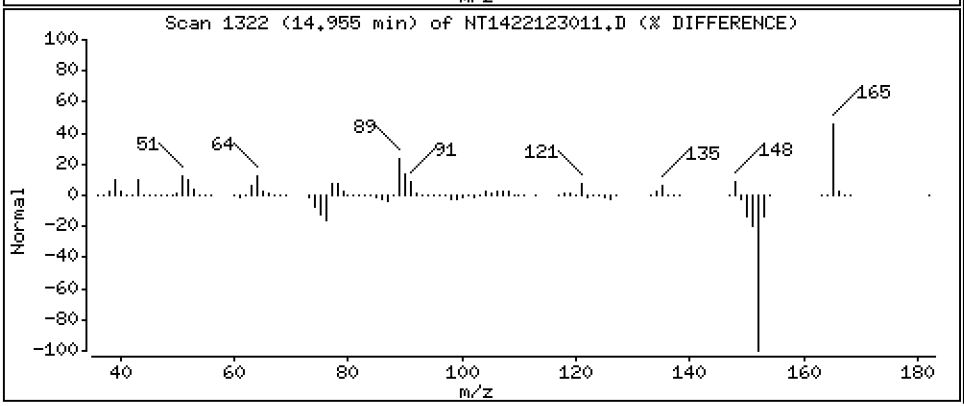












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

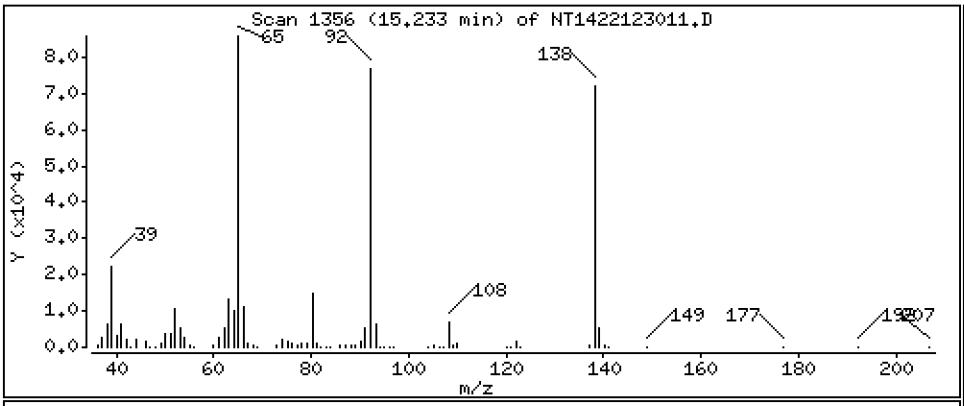
Operator: VTS

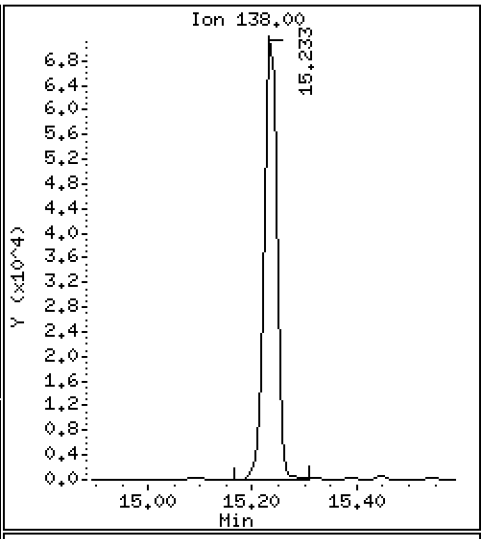
Column phase: ZB-5msi

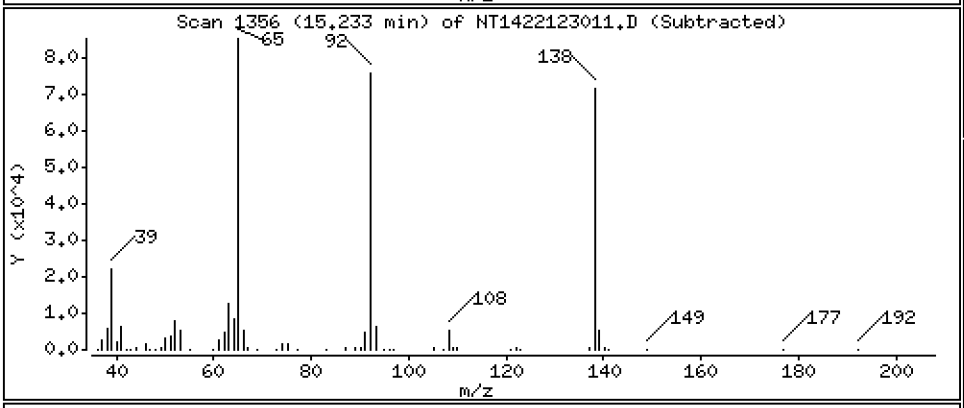
Column diameter: 0.25

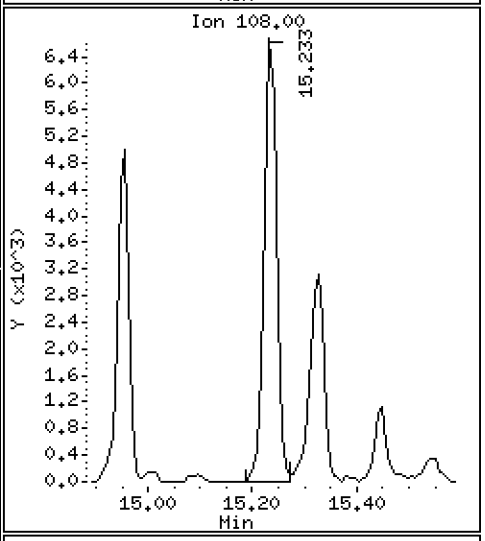
43 3-Nitroaniline

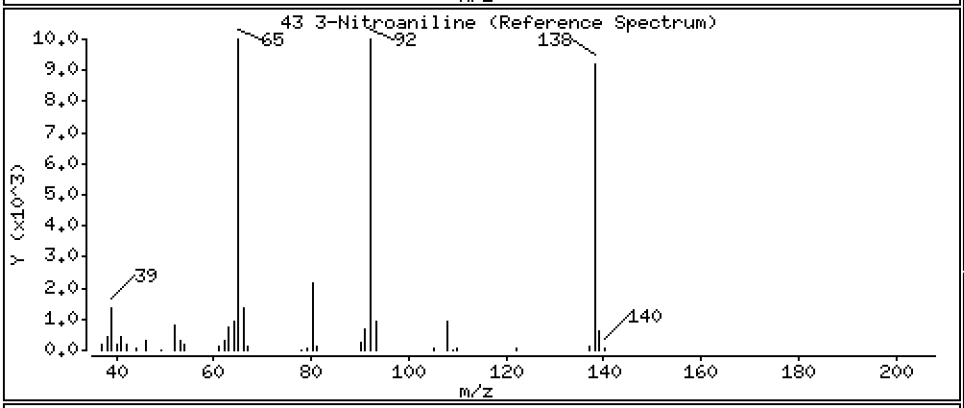
Concentration: 5.088 ug/mL

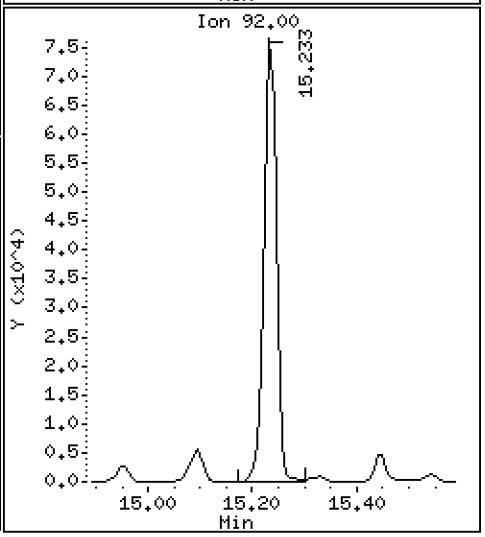


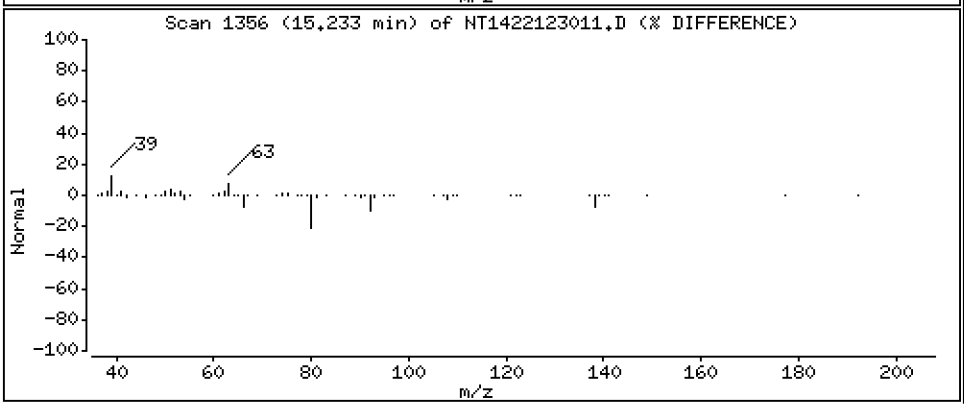












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

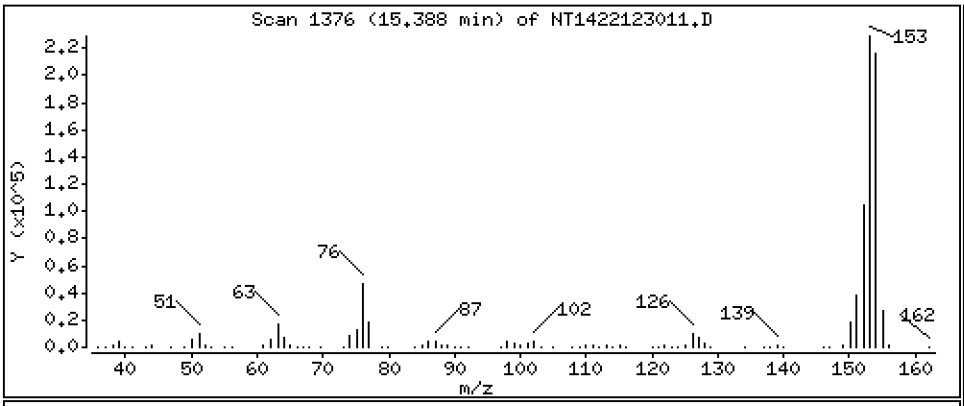
Operator: VTS

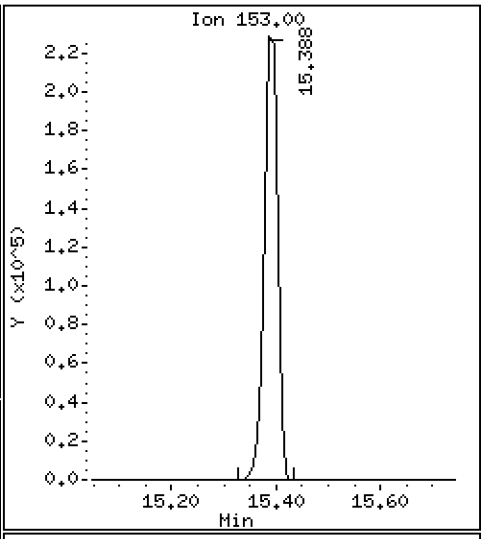
Column phase: ZB-5msi

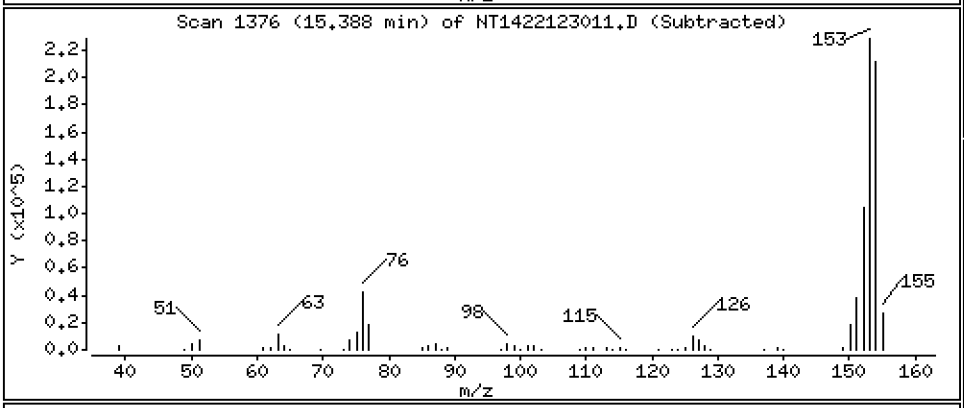
Column diameter: 0.25

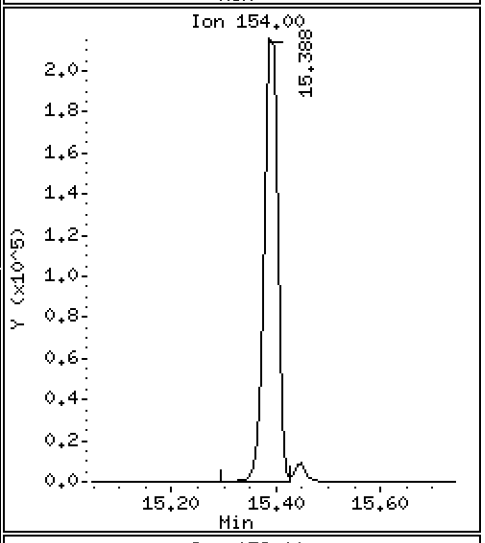
44 Acenaphthene

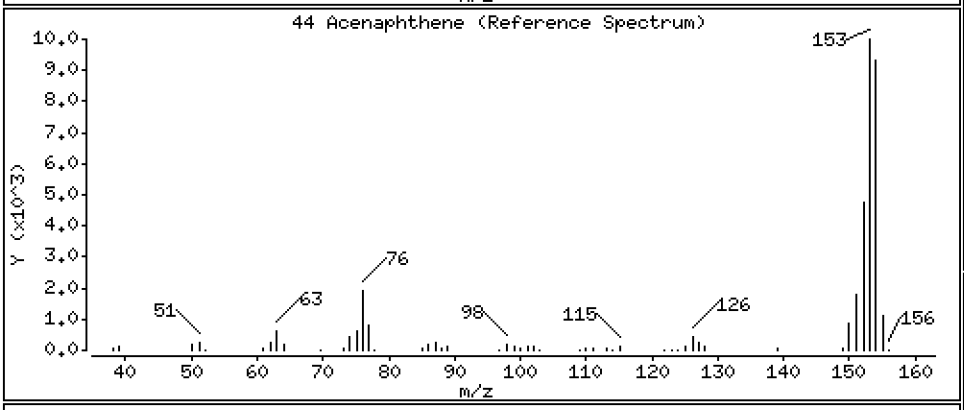
Concentration: 4.916 ug/mL

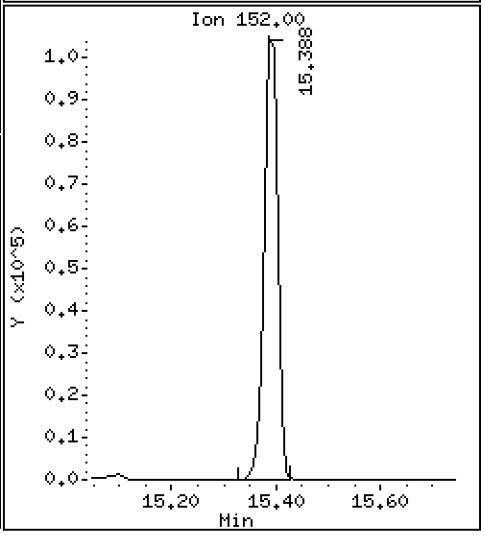


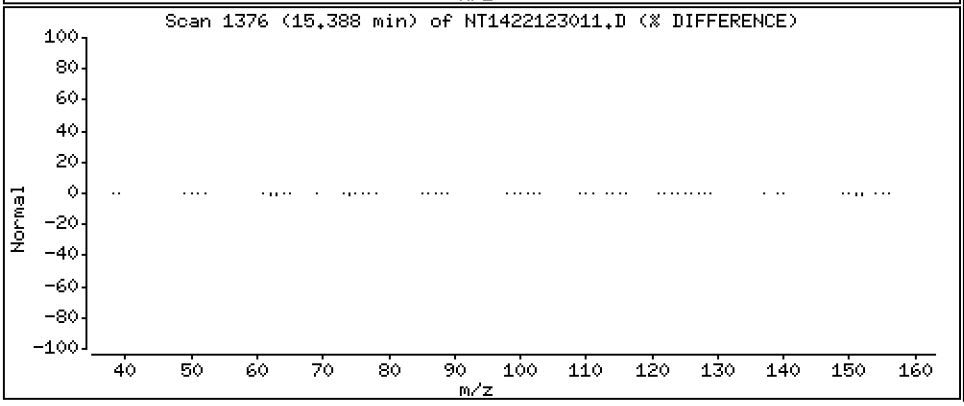












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

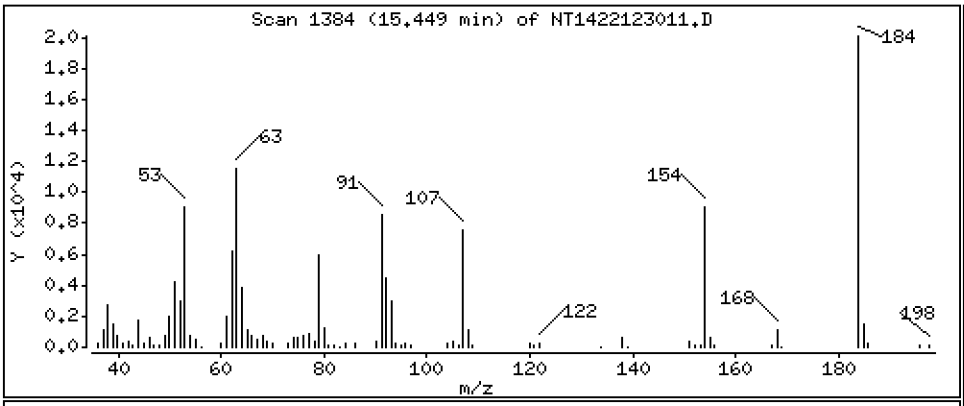
Operator: VTS

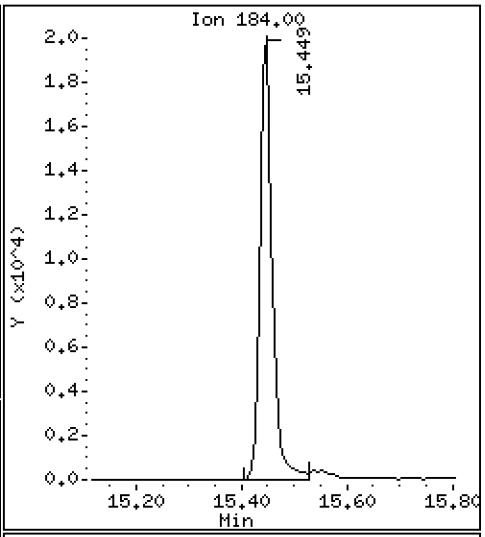
Column phase: ZB-5msi

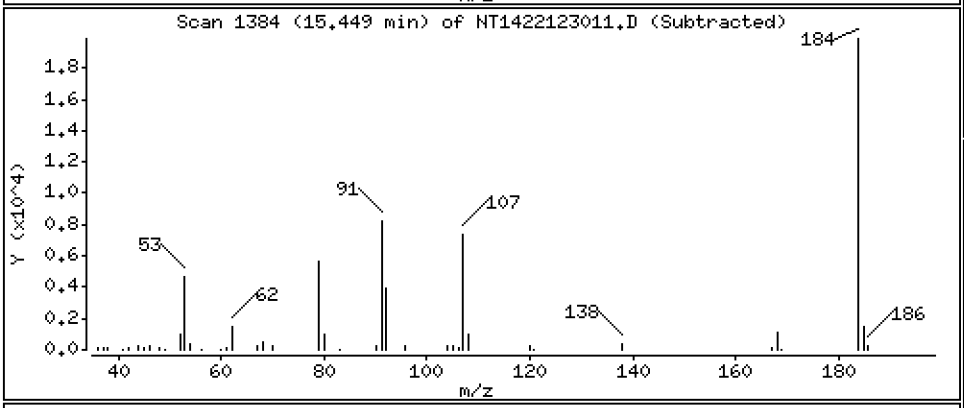
Column diameter: 0.25

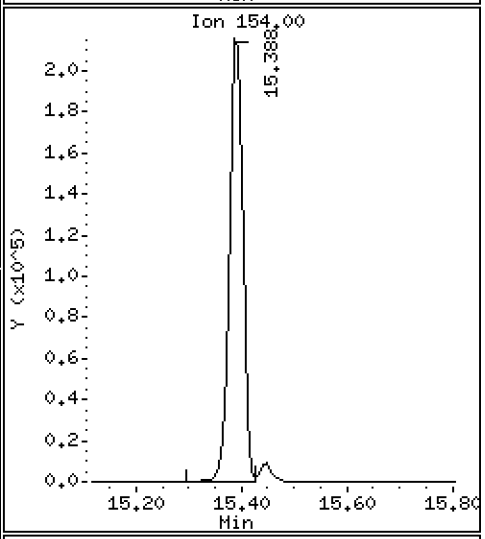
45 2,4-Dinitrophenol

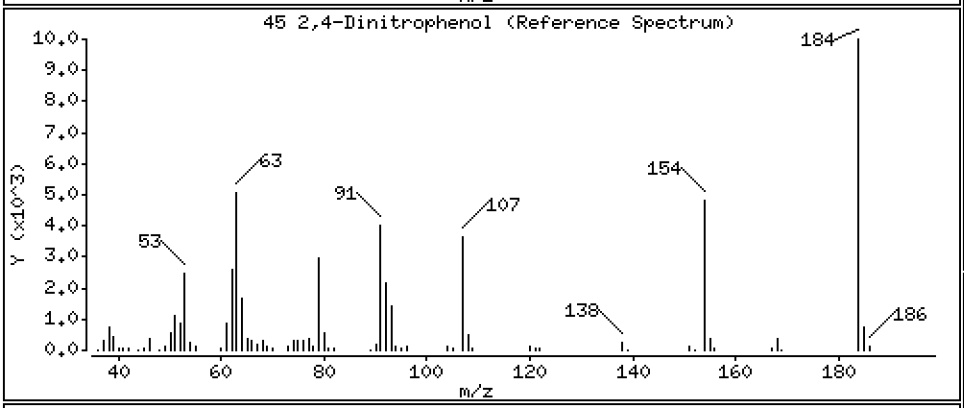
Concentration: 2.036 ug/mL

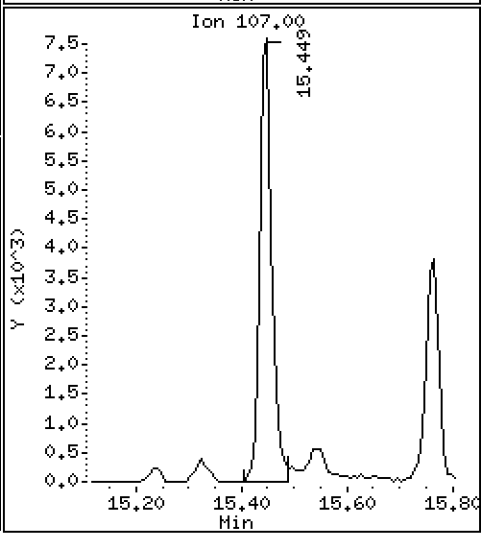


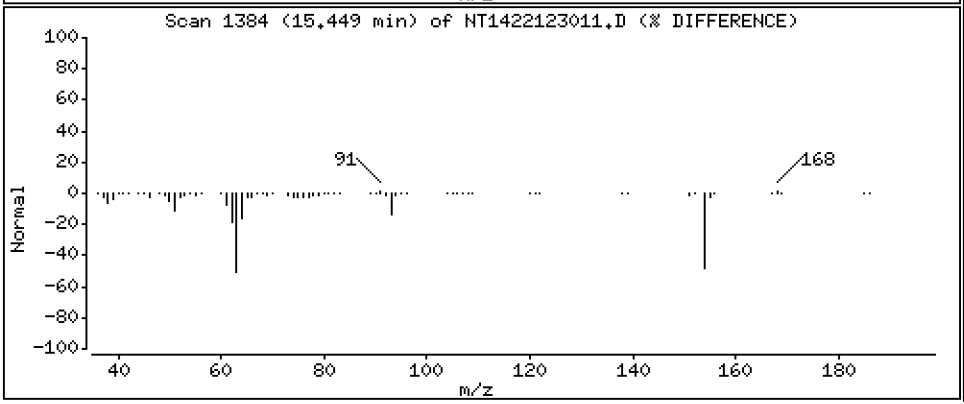












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

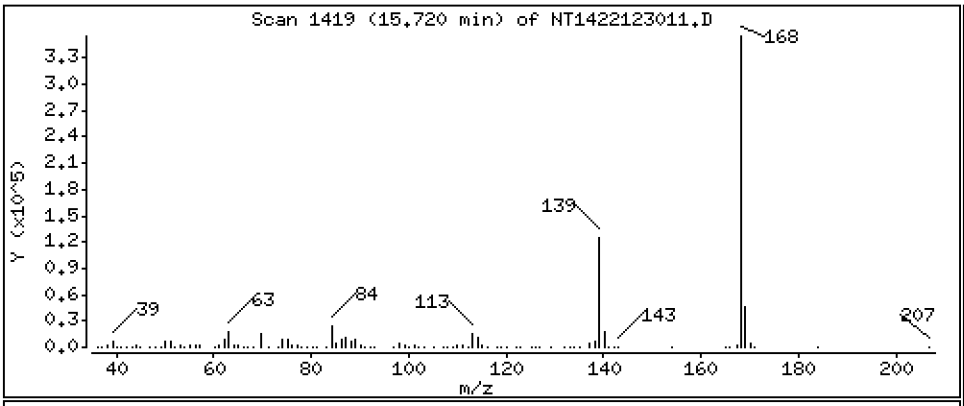
Operator: VTS

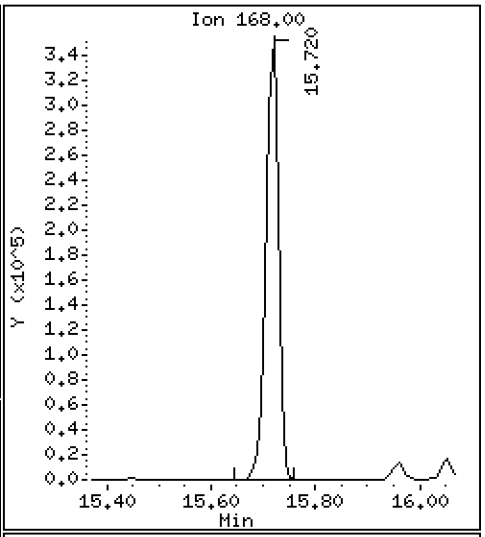
Column phase: ZB-5msi

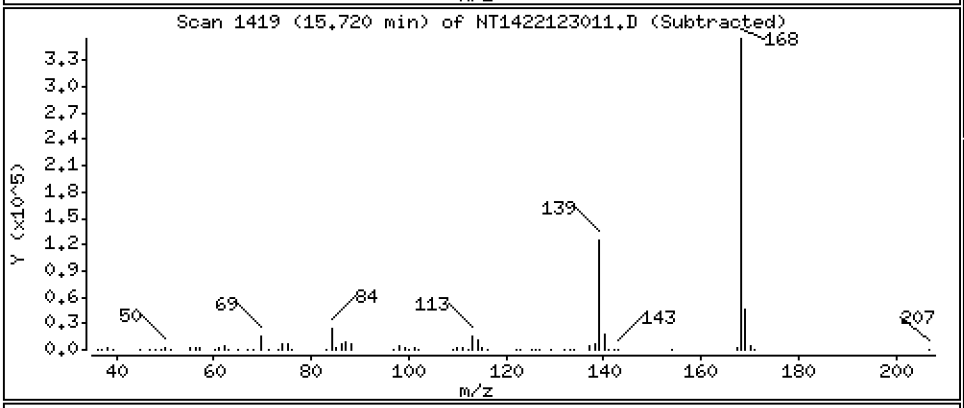
Column diameter: 0.25

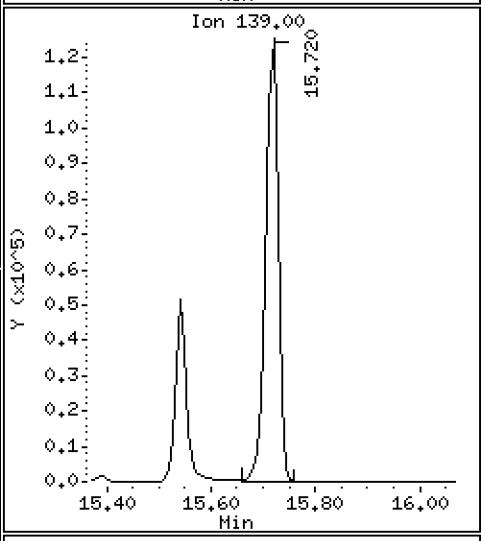
46 Dibenzofuran

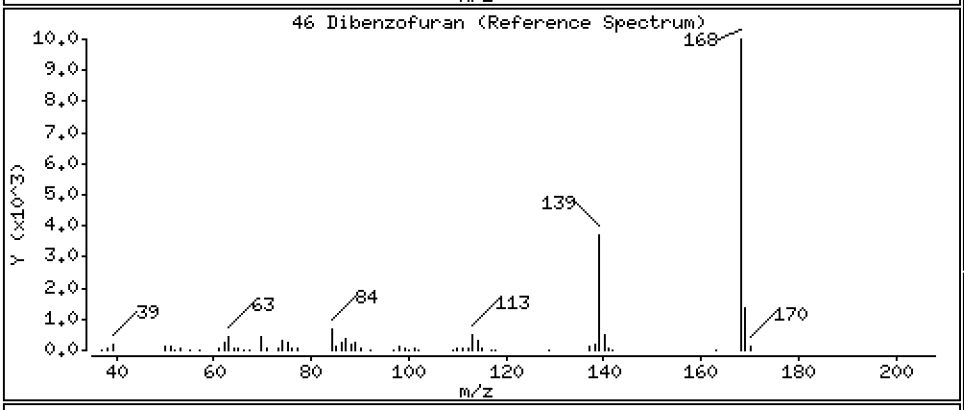
Concentration: 4.709 ug/mL

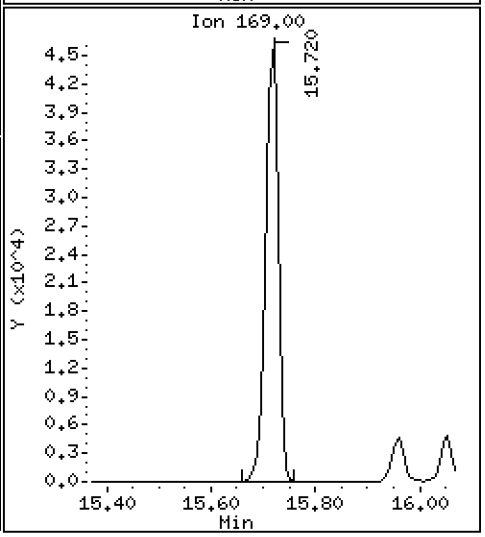


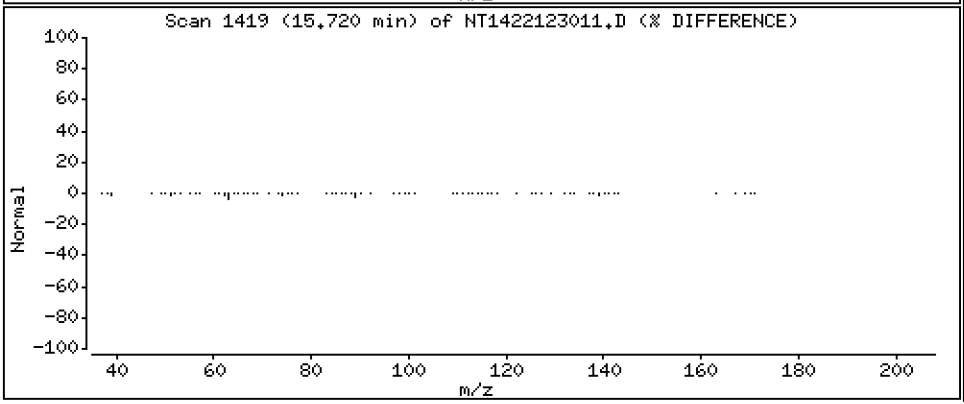












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

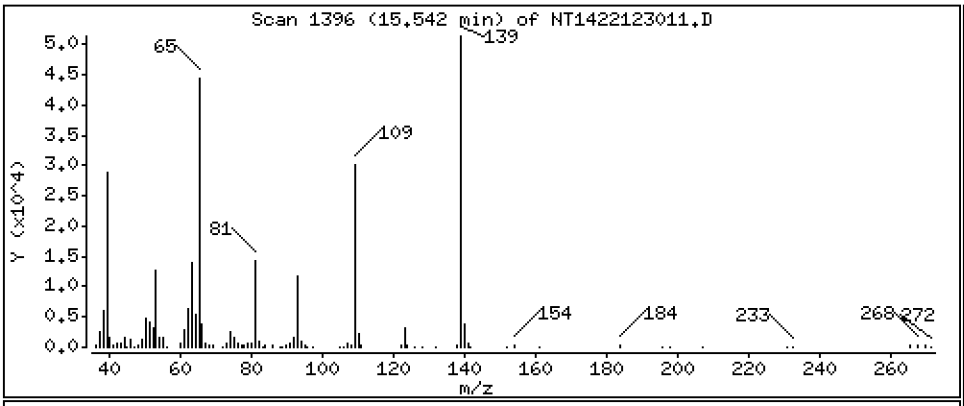
Operator: VTS

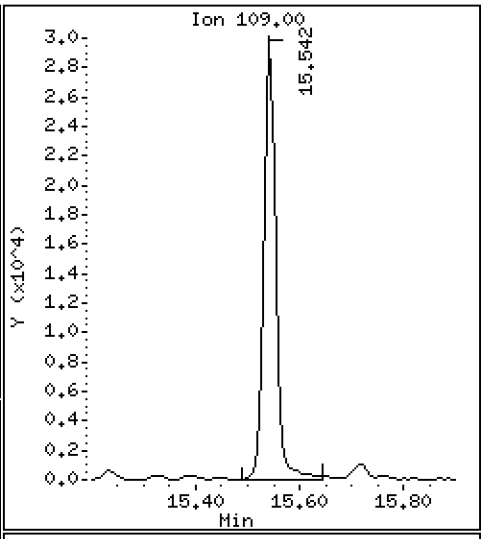
Column phase: ZB-5msi

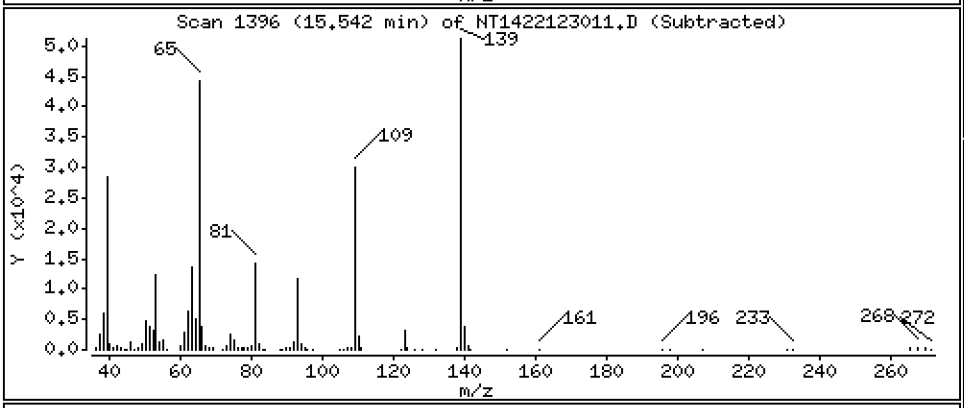
Column diameter: 0.25

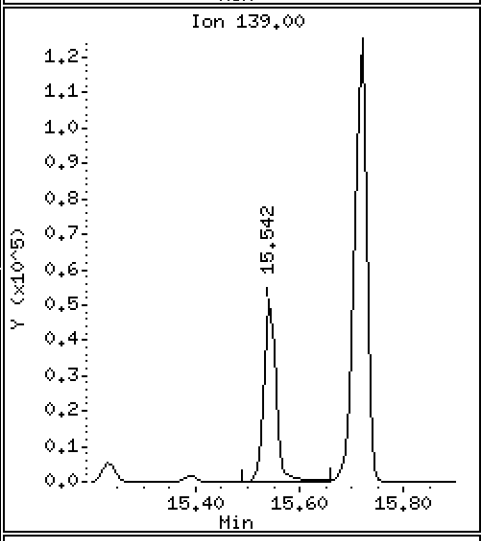
47 4-Nitrophenol

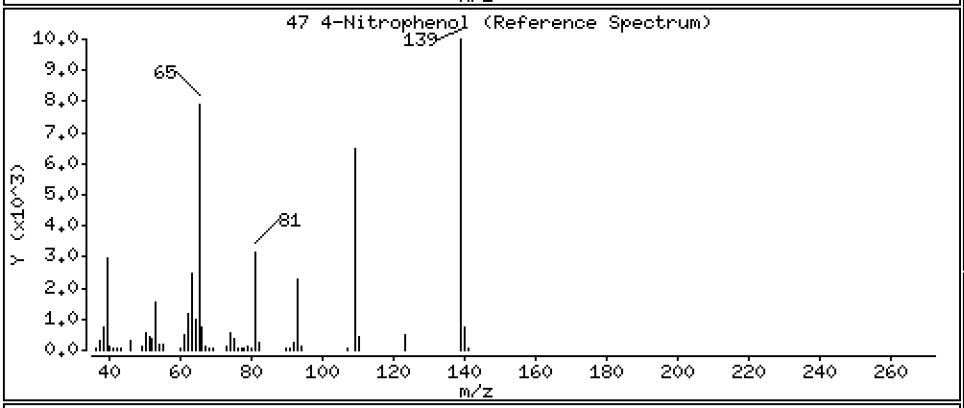
Concentration: 4.077 ug/mL

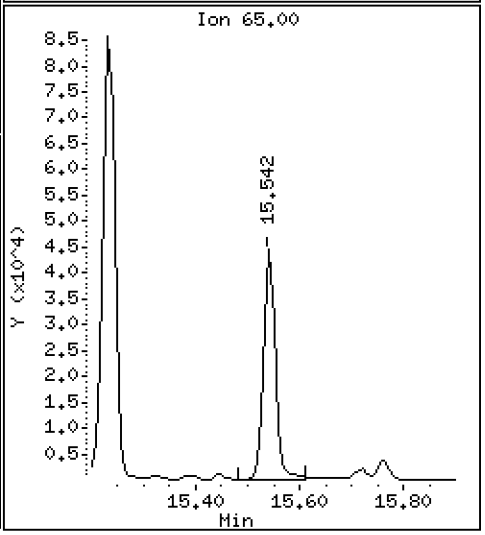


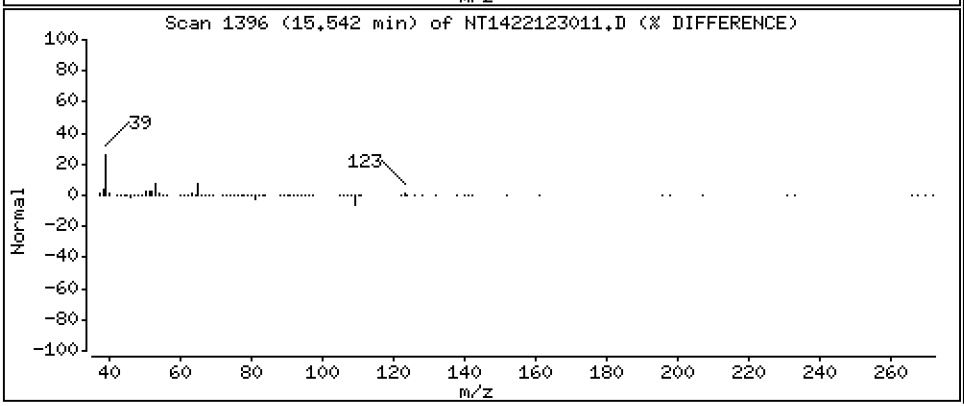












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

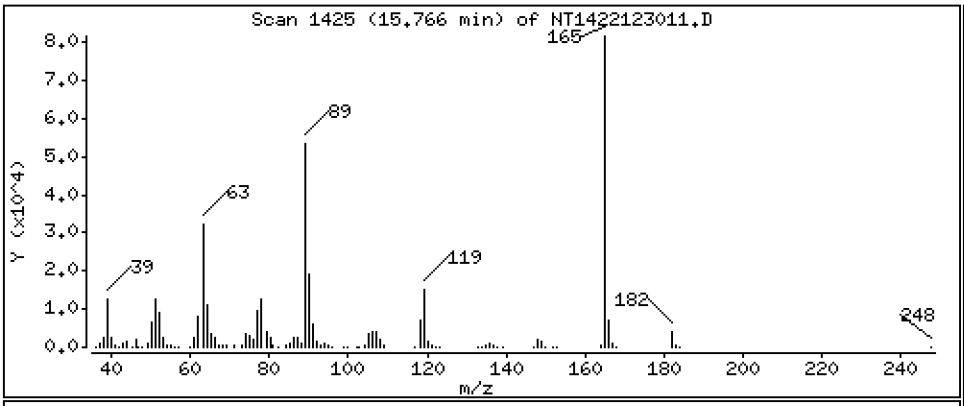
Operator: VTS

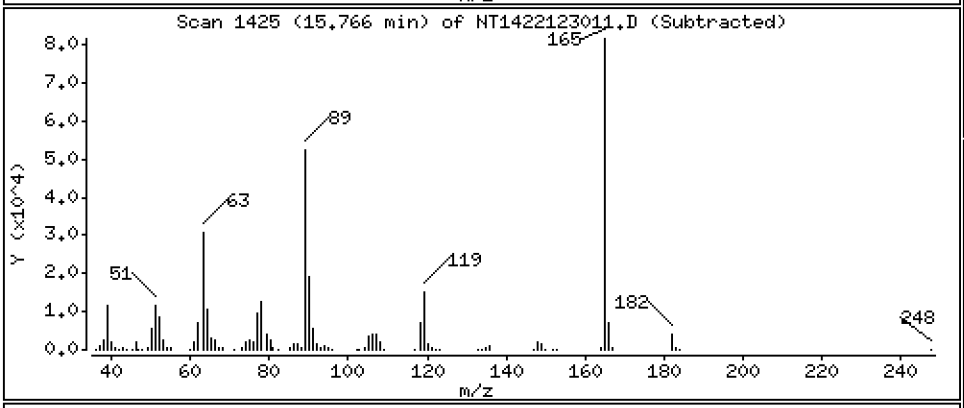
Column phase: ZB-5msi

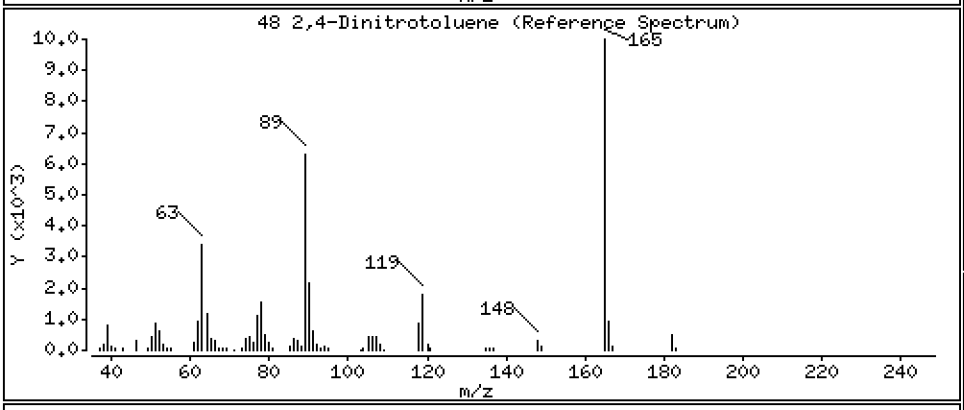
Column diameter: 0.25

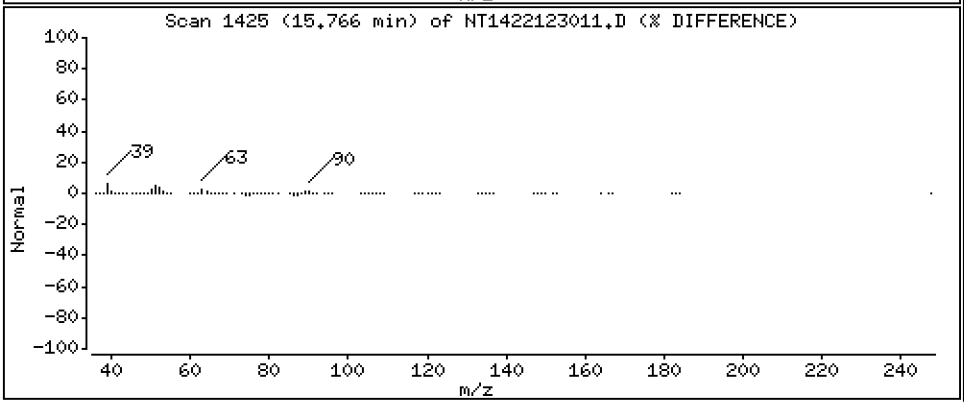
48 2,4-Dinitrotoluene

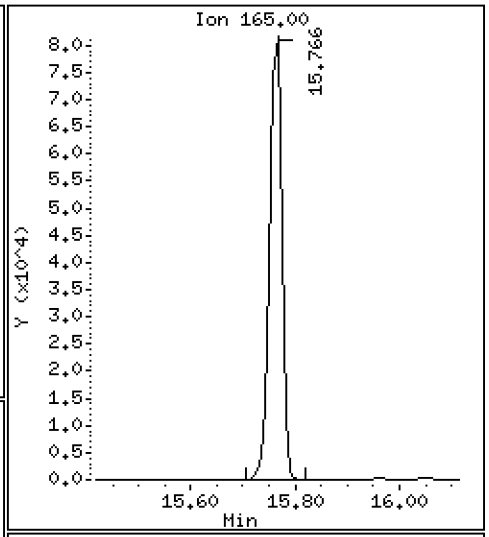
Concentration: 4.956 ug/mL

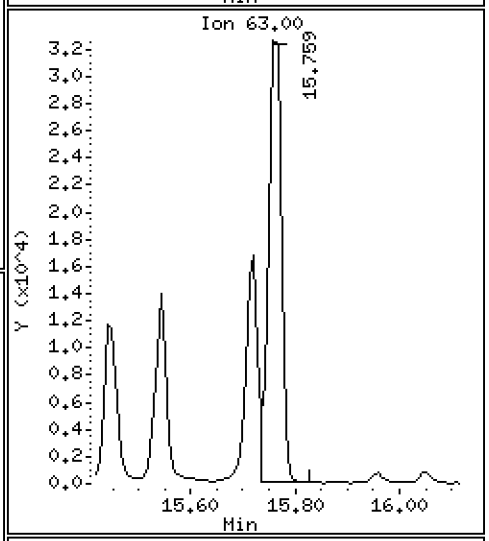


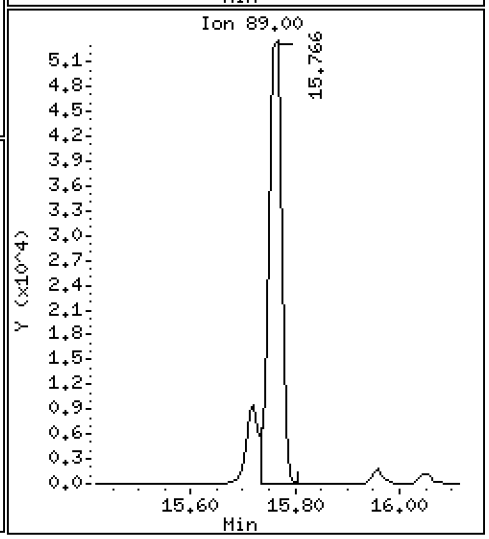












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

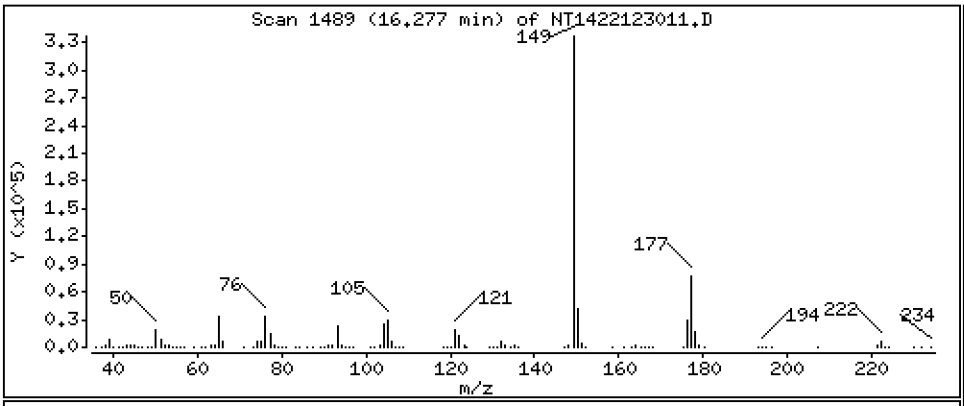
Operator: VTS

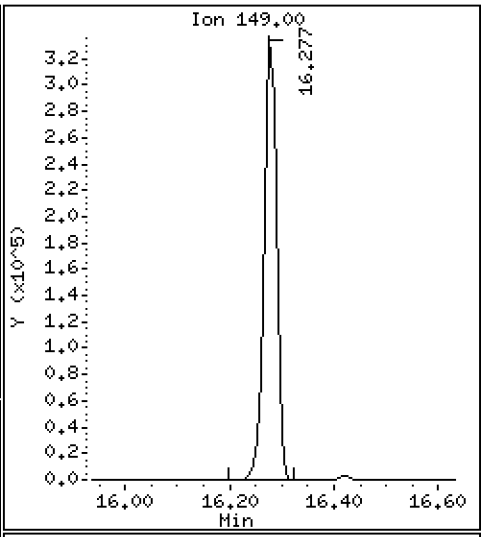
Column phase: ZB-5msi

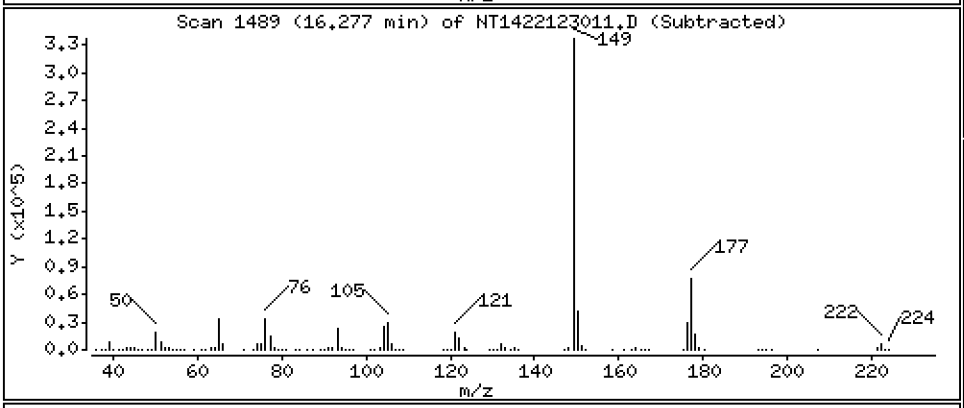
Column diameter: 0.25

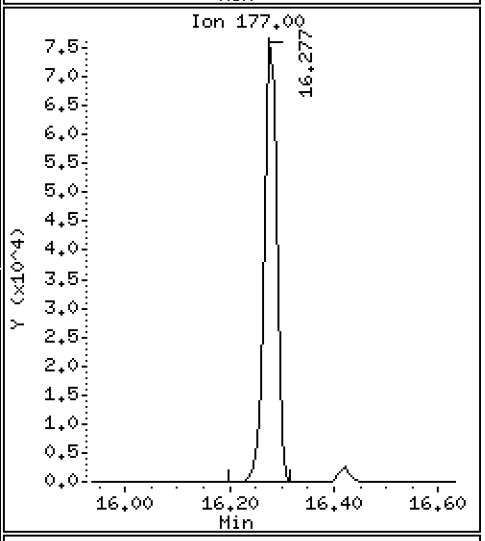
50 Diethylphthalate

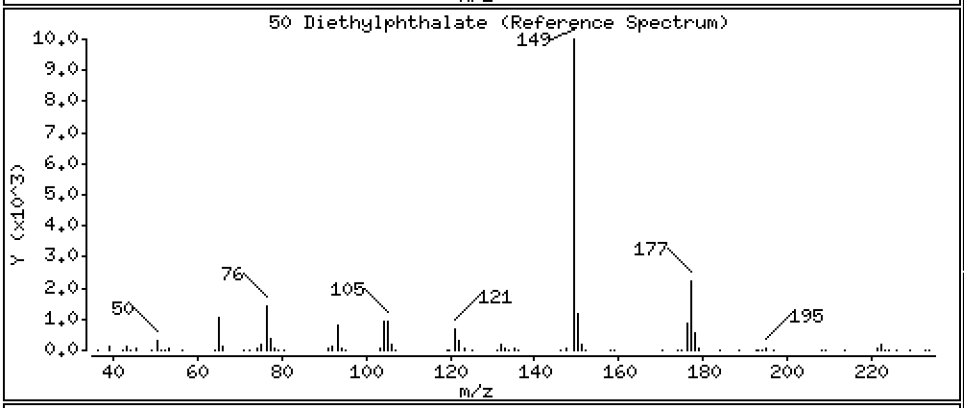
Concentration: 5.353 ug/mL

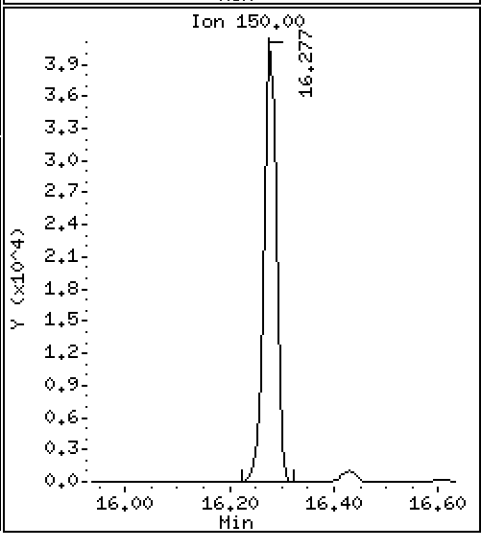


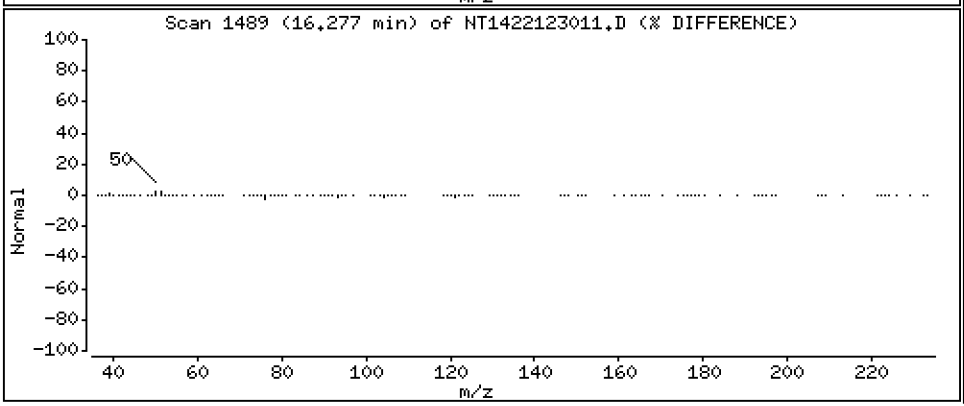












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

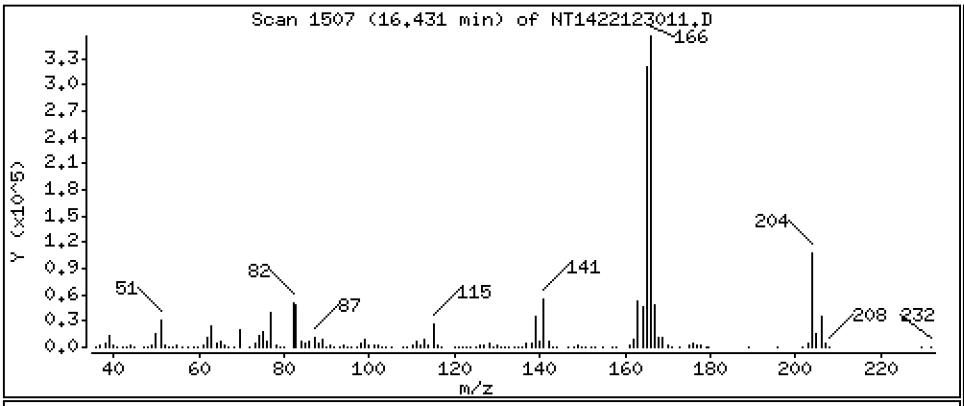
Operator: VTS

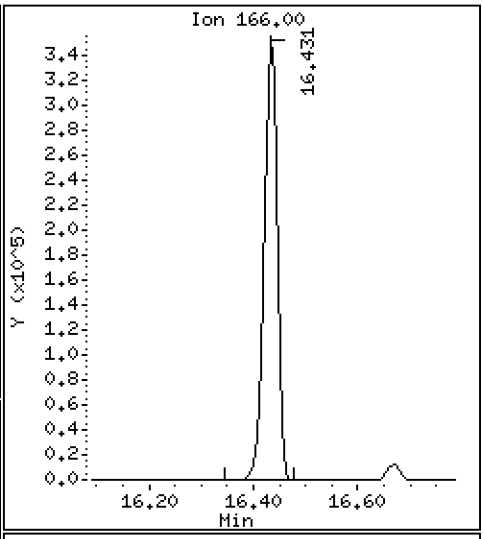
Column phase: ZB-5msi

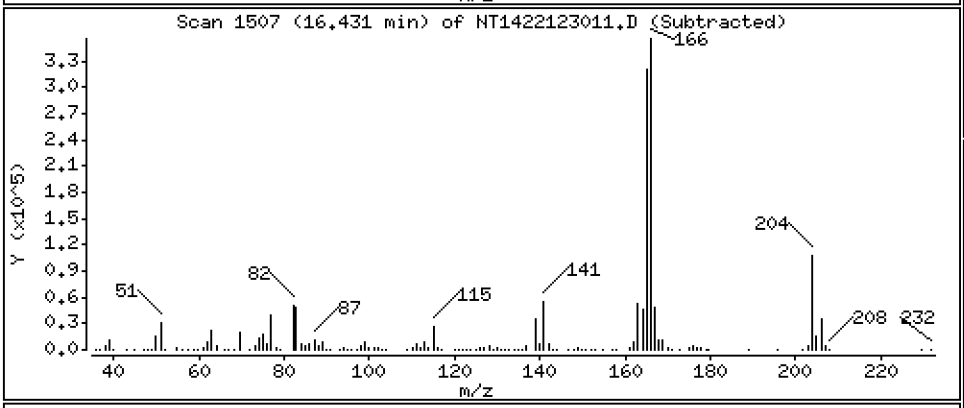
Column diameter: 0.25

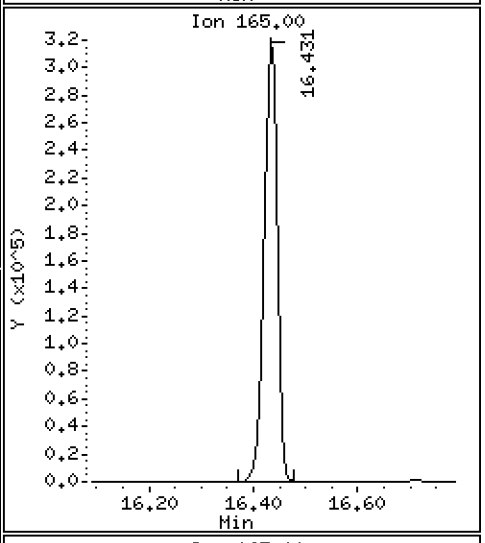
49 Fluorene

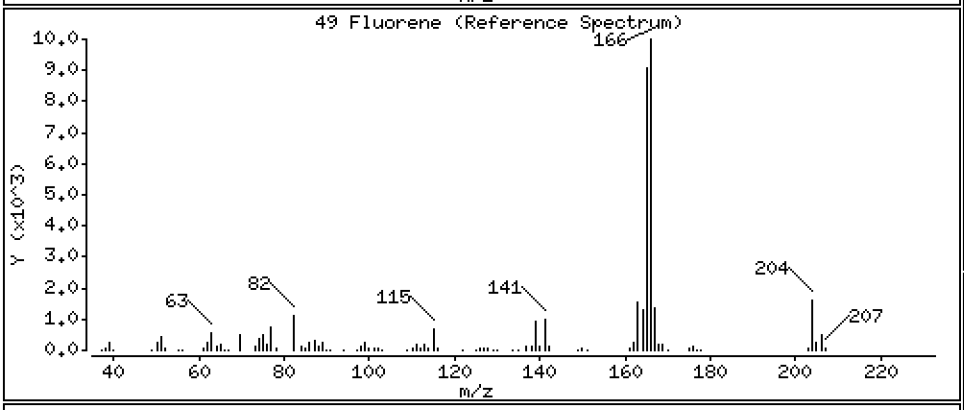
Concentration: 5.230 ug/mL

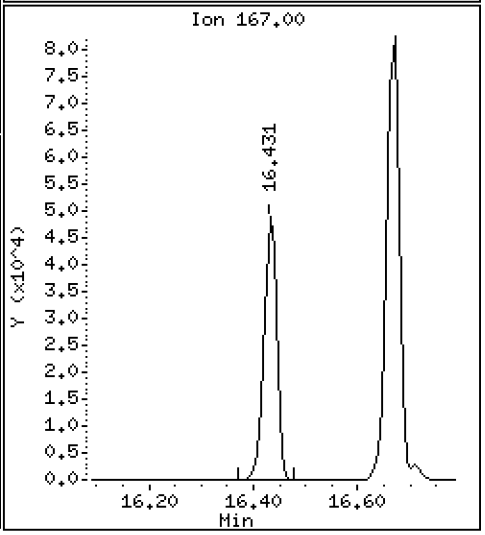


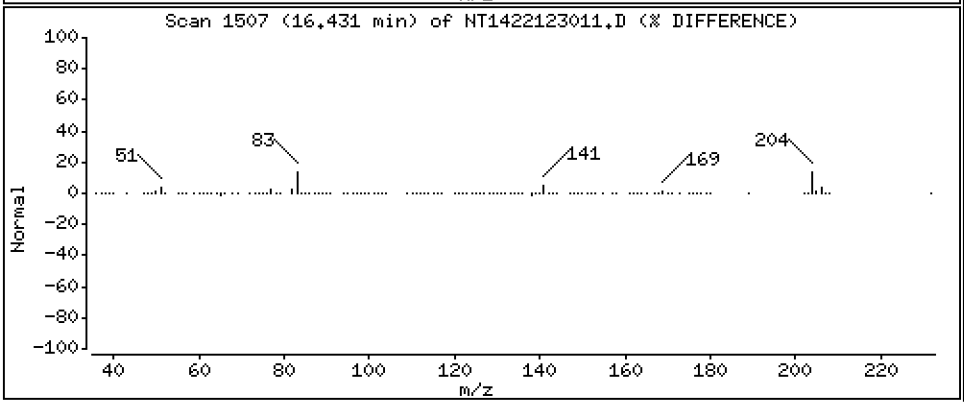












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

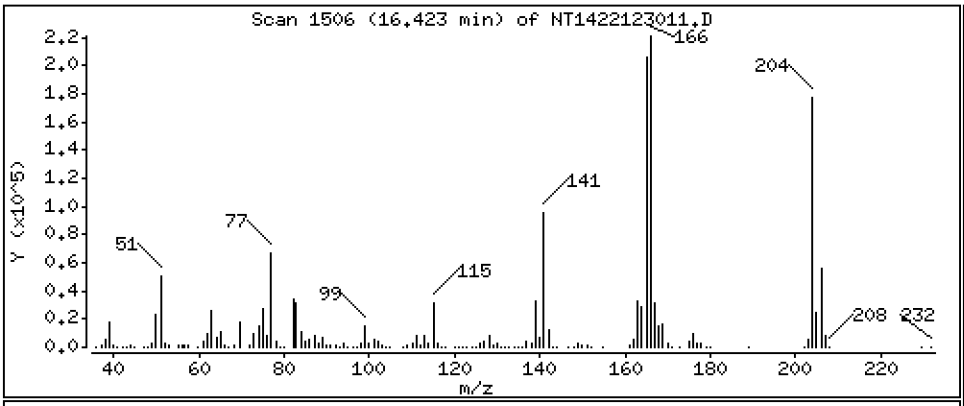
Operator: VTS

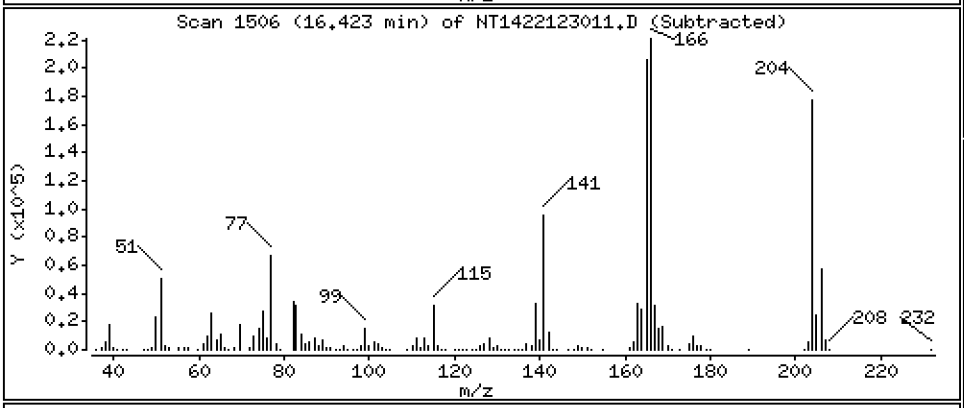
Column phase: ZB-5msi

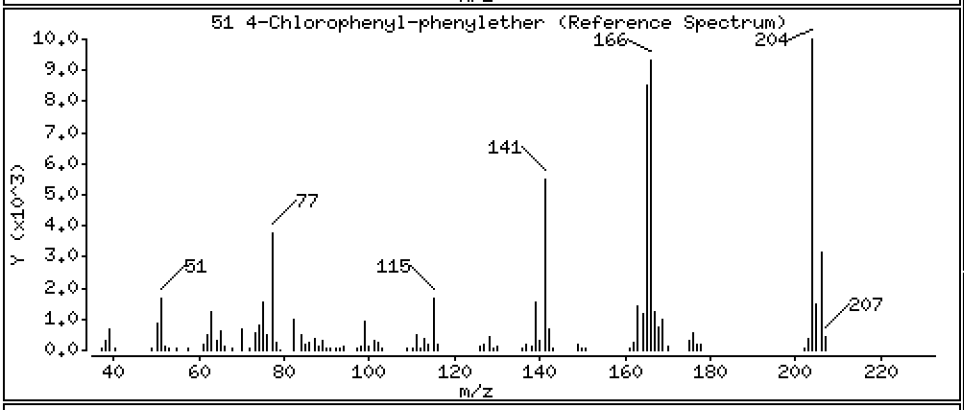
Column diameter: 0.25

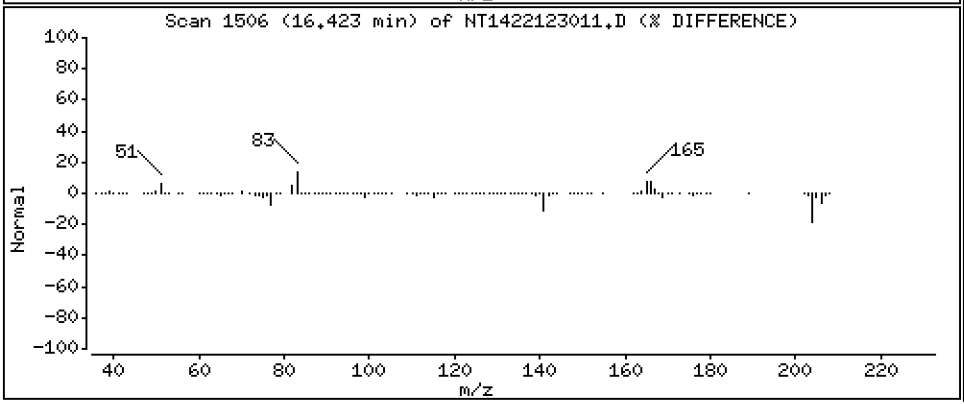
51 4-Chlorophenyl-phenylether

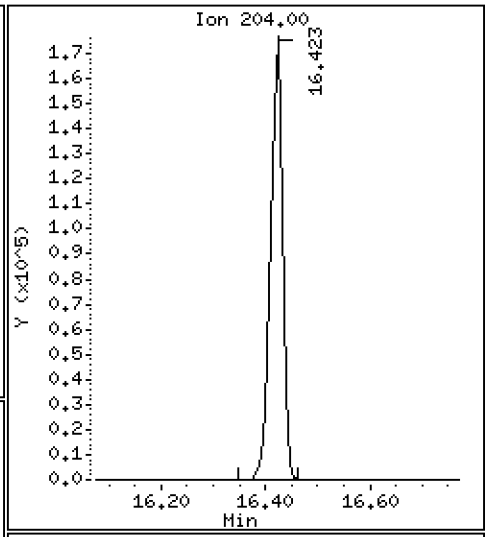
Concentration: 5.094 ug/mL

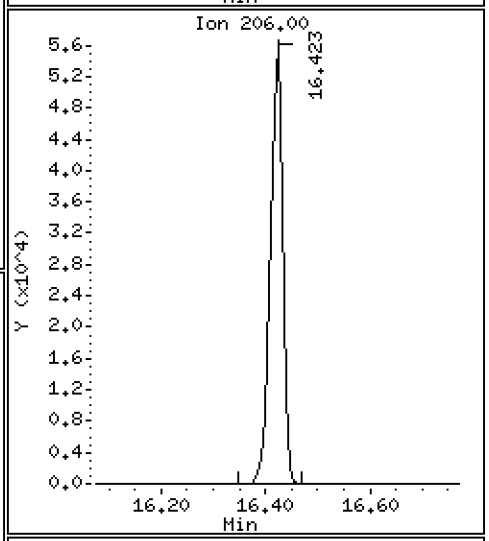


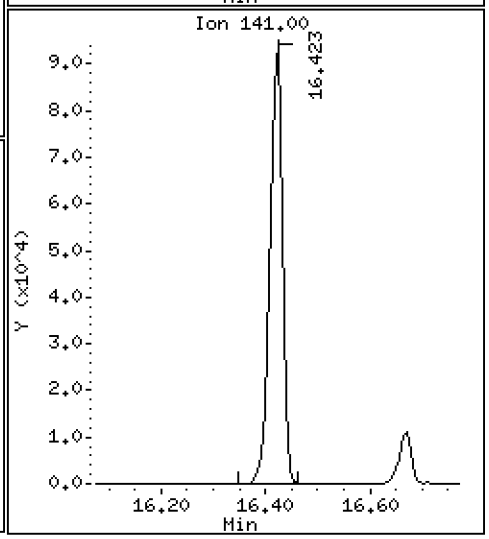












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

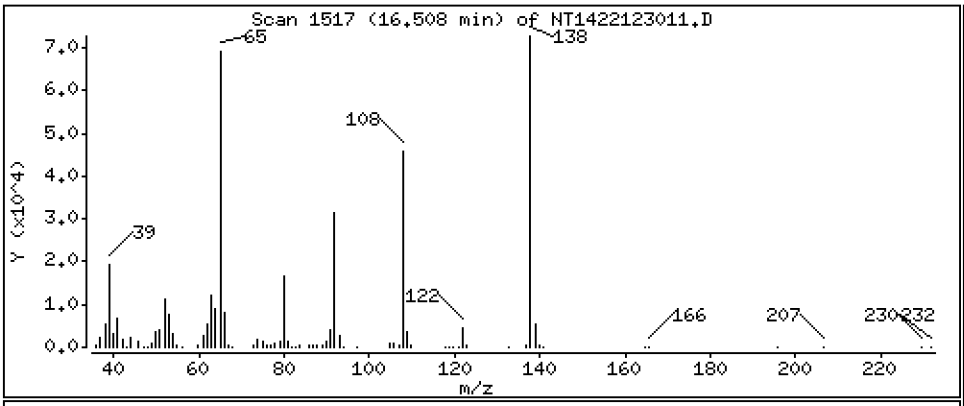
Operator: VTS

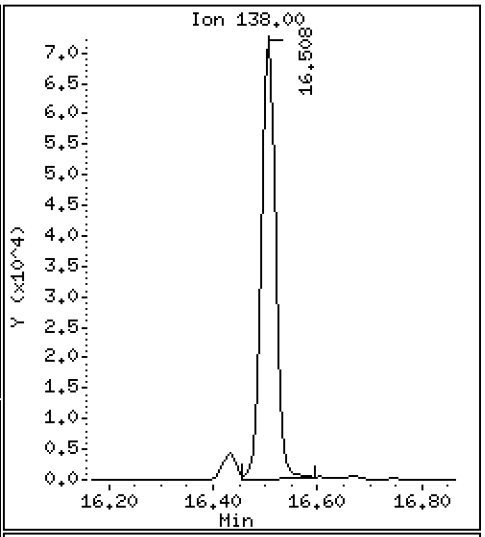
Column phase: ZB-5msi

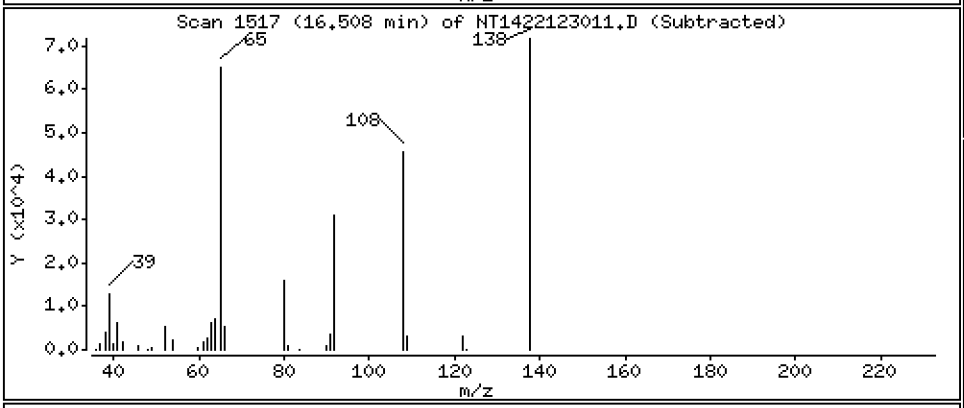
Column diameter: 0.25

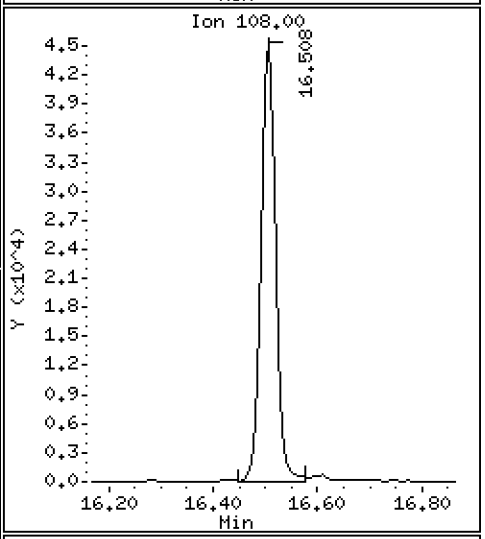
52 4-Nitroaniline

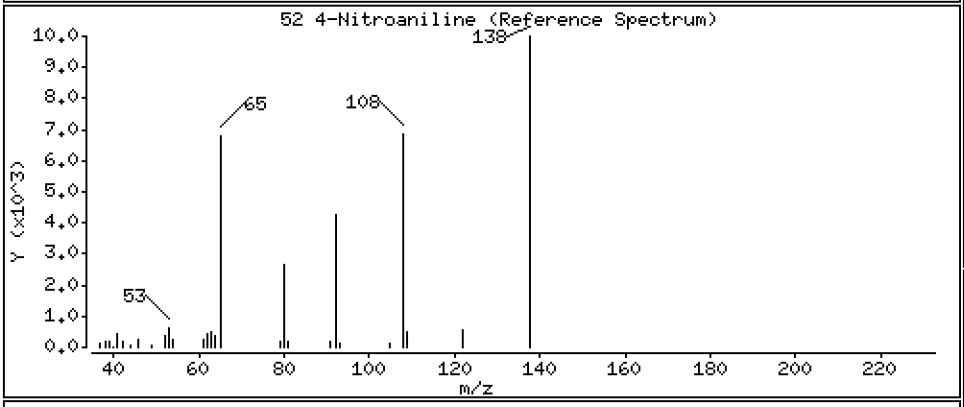
Concentration: 4.733 ug/mL

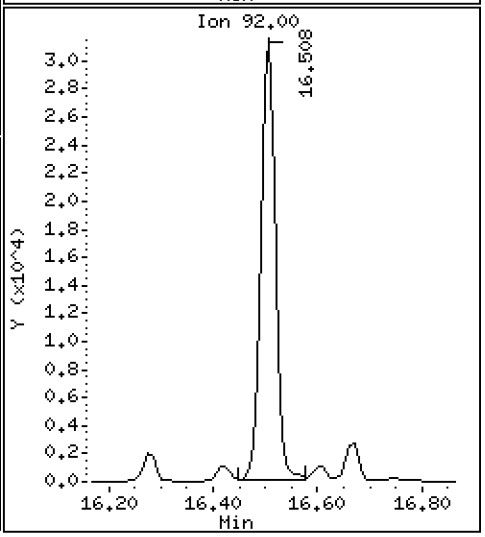


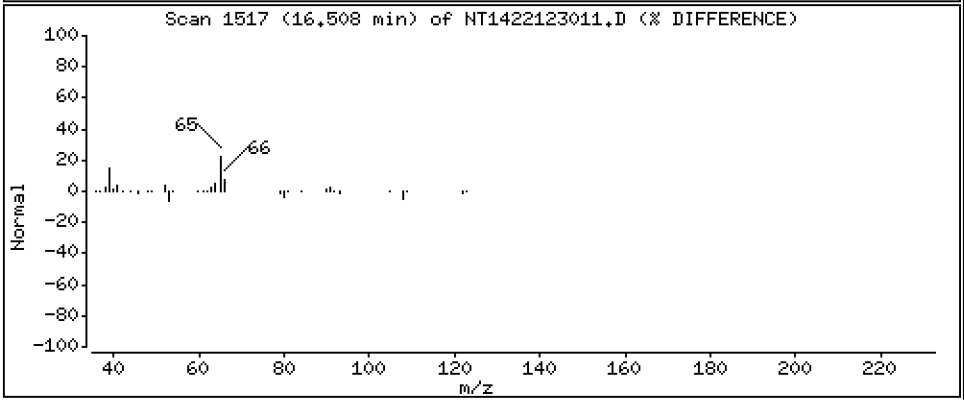












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

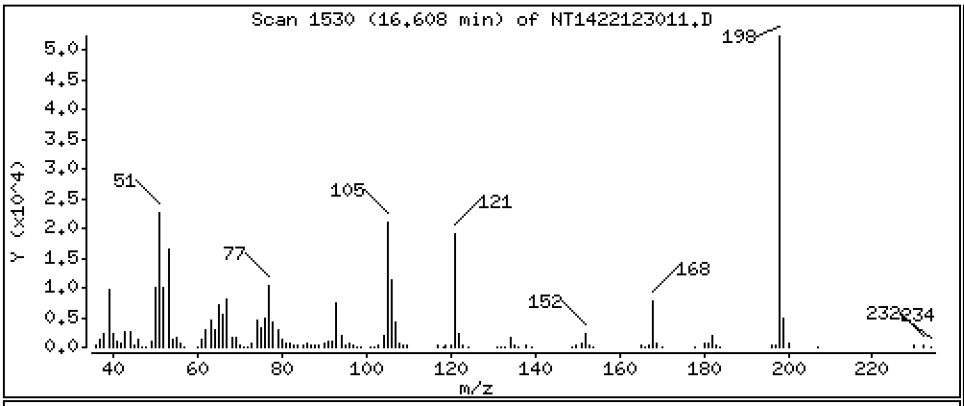
Operator: VTS

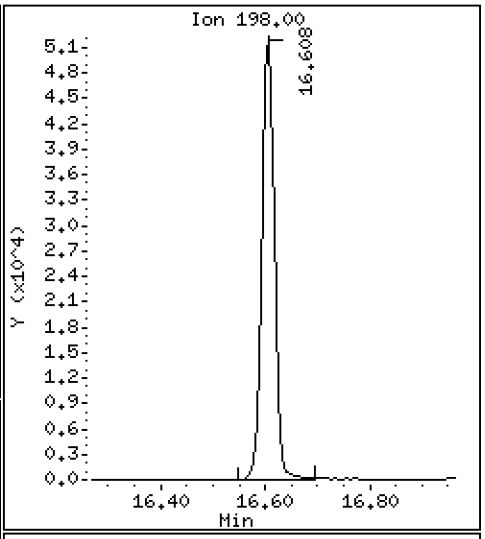
Column phase: ZB-5msi

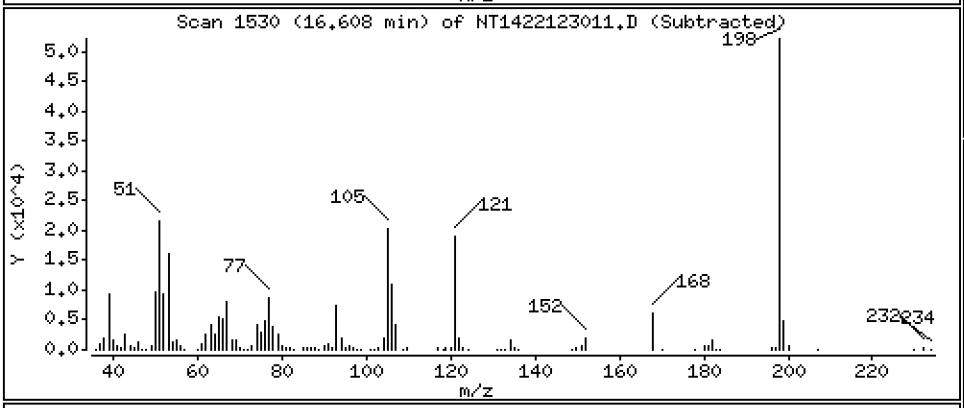
Column diameter: 0.25

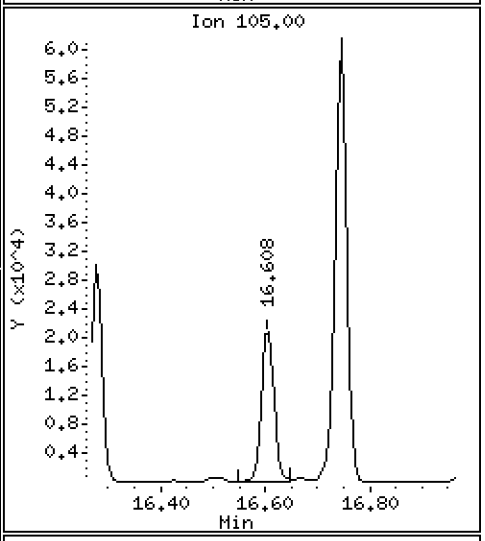
53 4,6-Dinitro-2-methylphenol

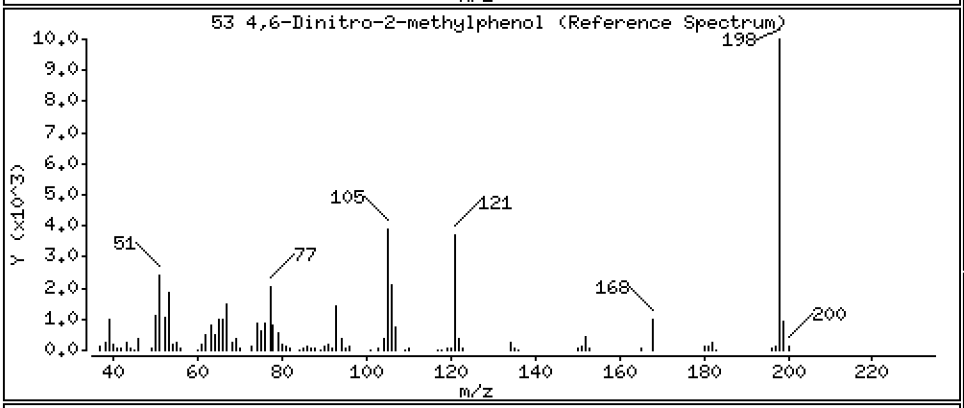
Concentration: 4.082 ug/mL

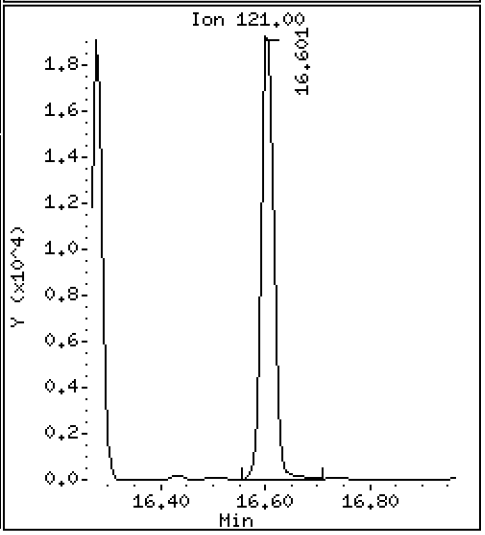


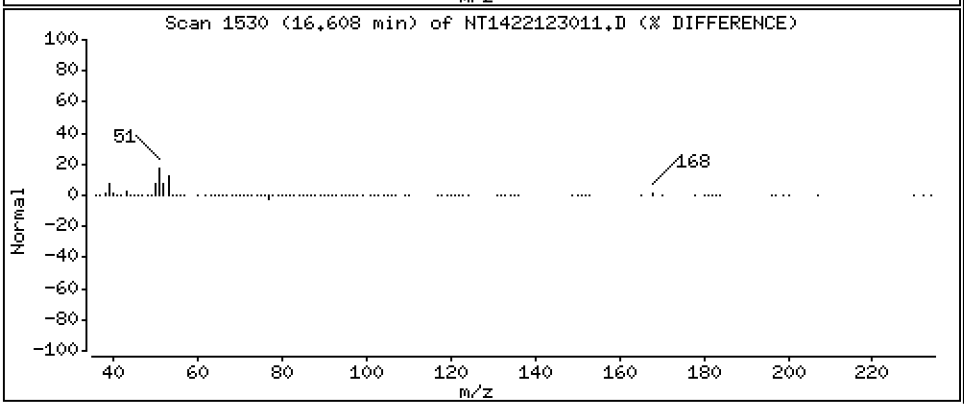












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

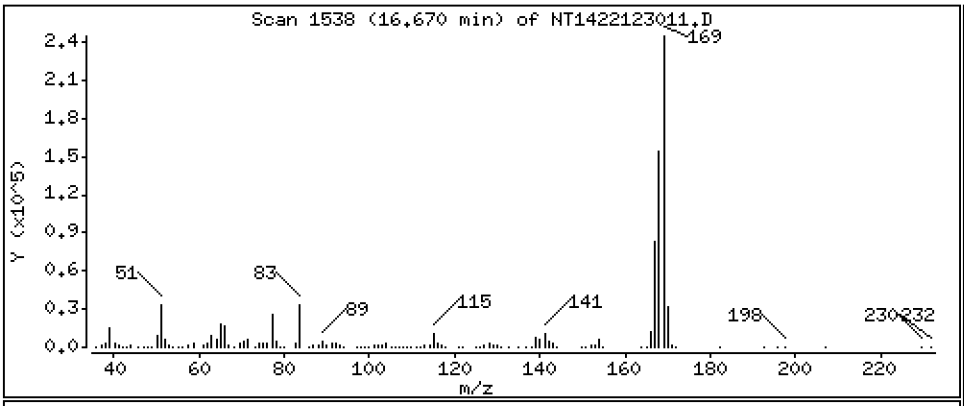
Operator: VTS

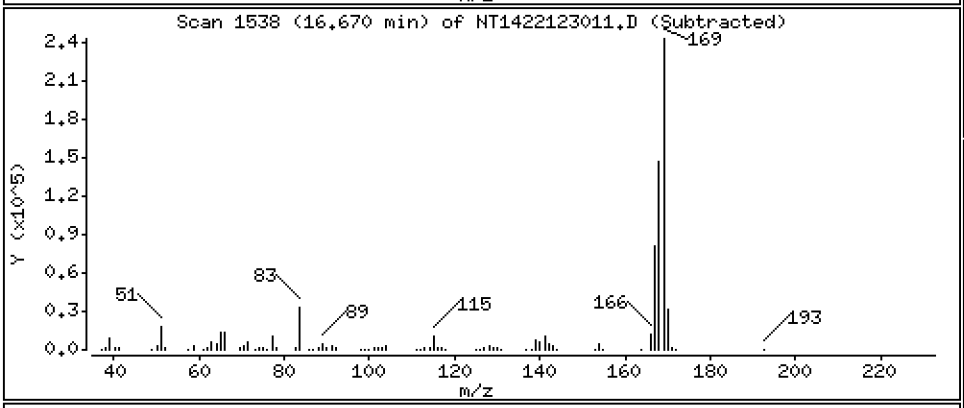
Column phase: ZB-5msi

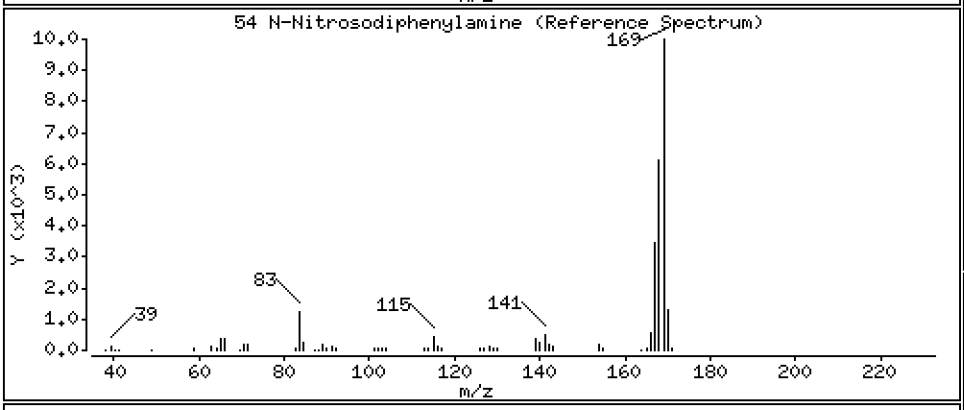
Column diameter: 0.25

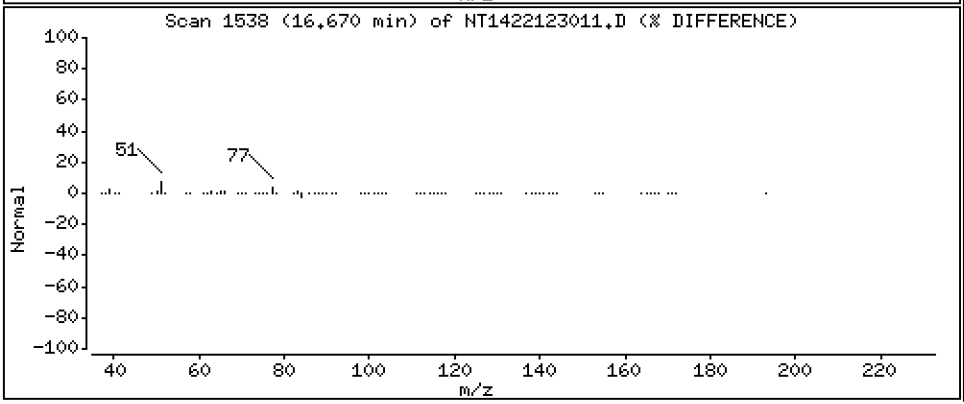
54 N-Nitrosodiphenylamine

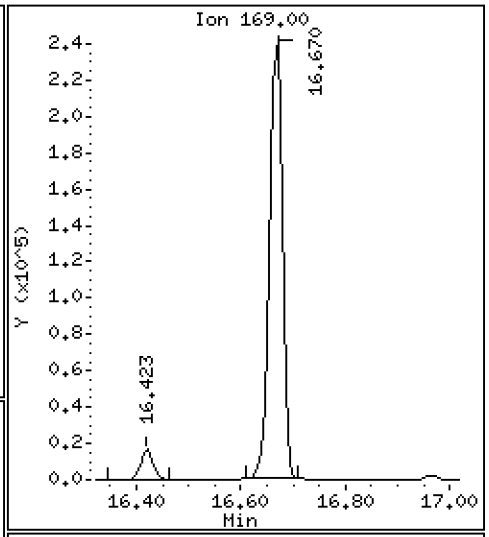
Concentration: 4.775 ug/mL

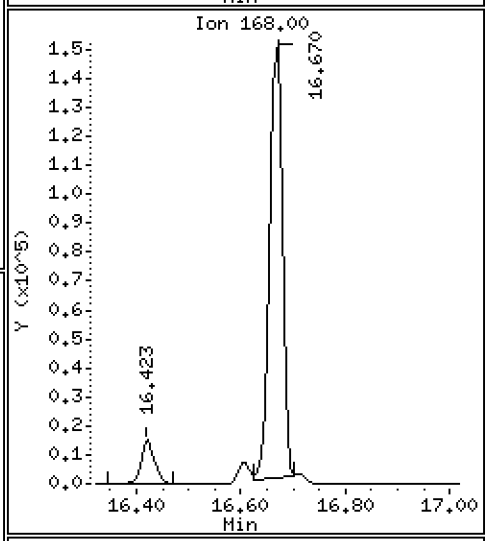


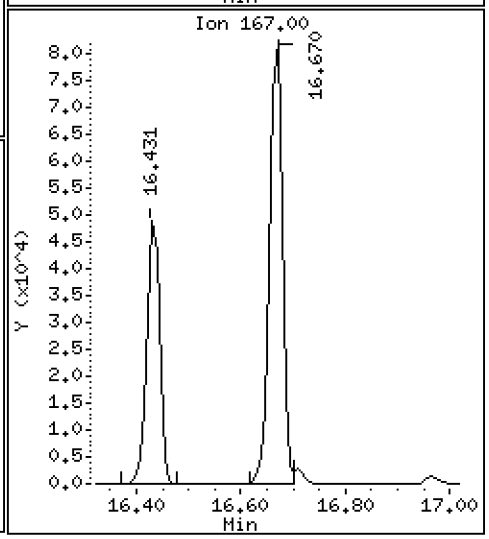












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

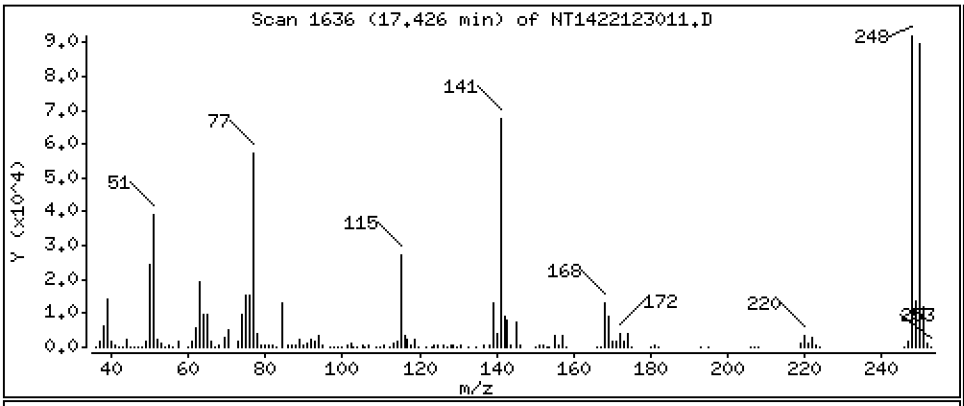
Operator: VTS

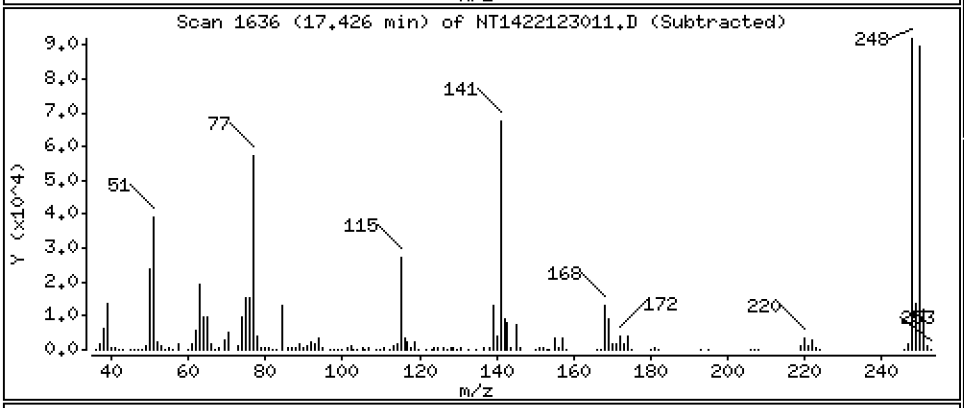
Column phase: ZB-5msi

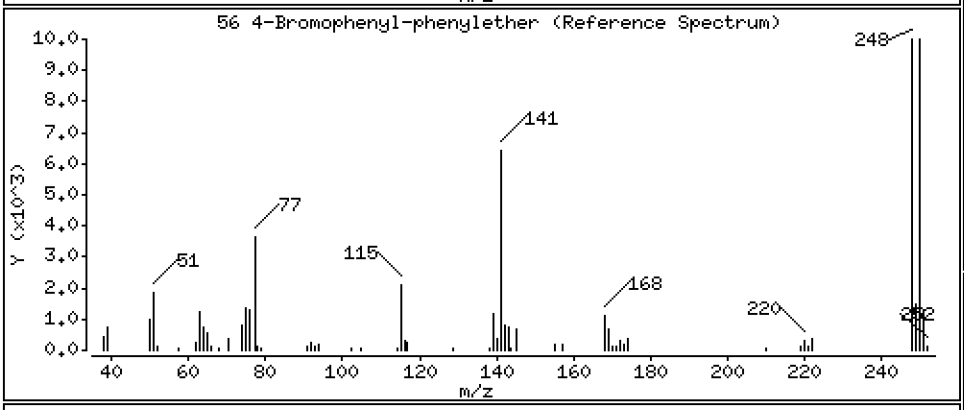
Column diameter: 0.25

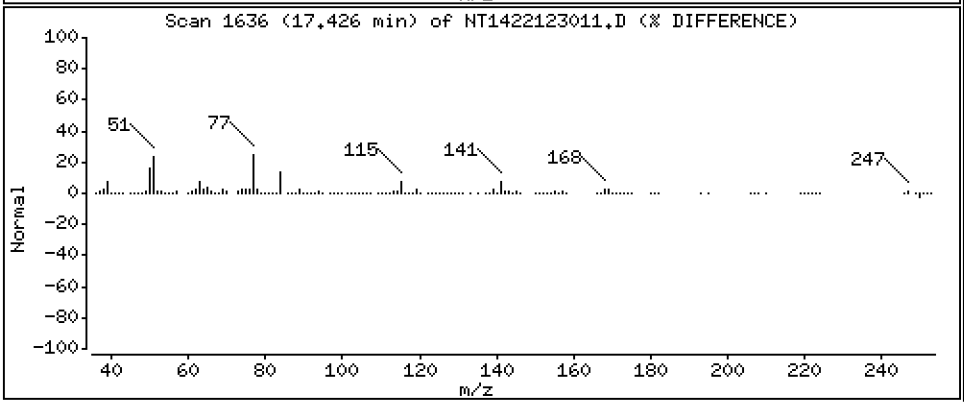
56 4-Bromophenyl-phenylether

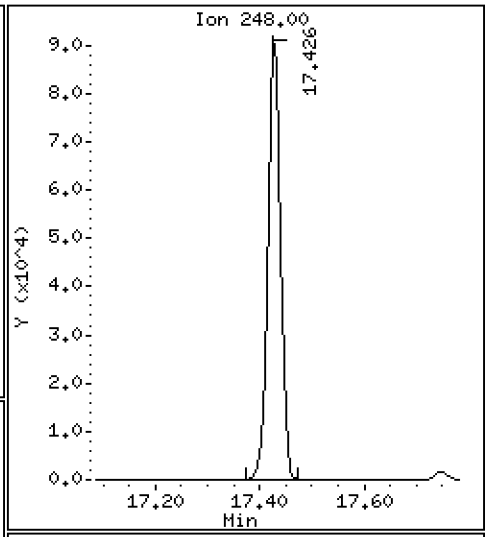
Concentration: 4.938 ug/mL

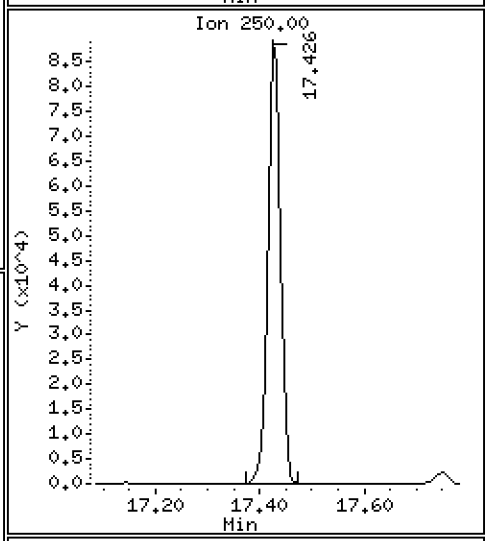


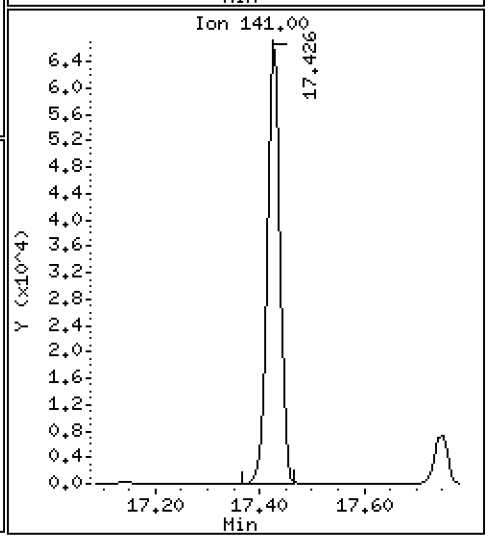












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

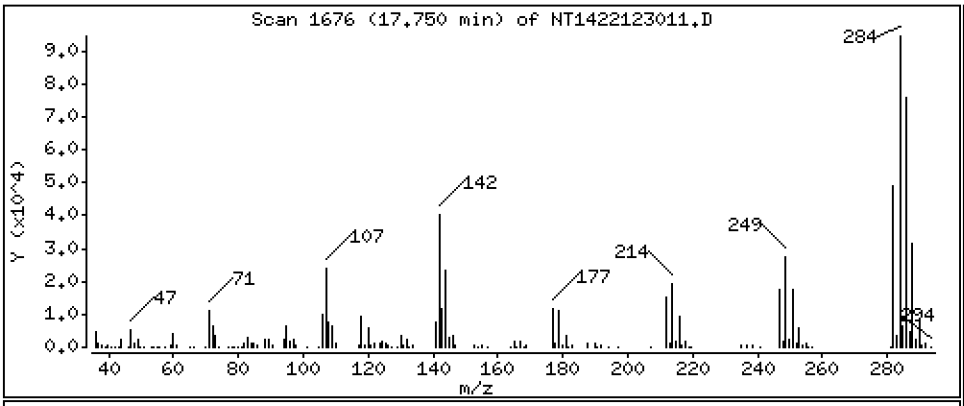
Operator: VTS

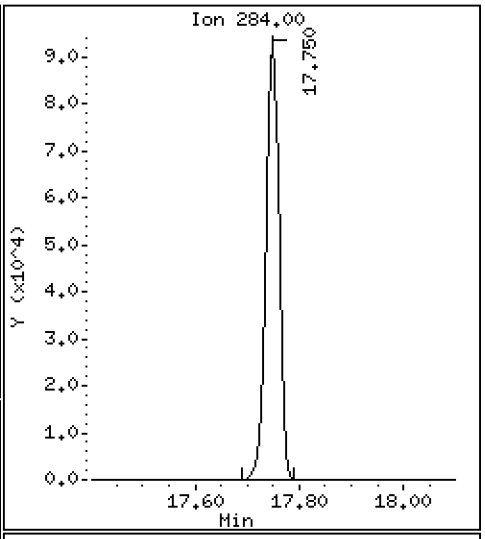
Column phase: ZB-5msi

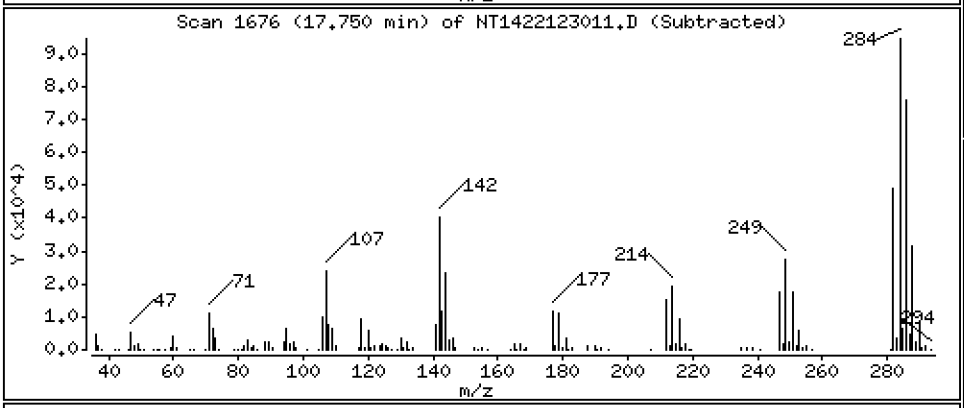
Column diameter: 0.25

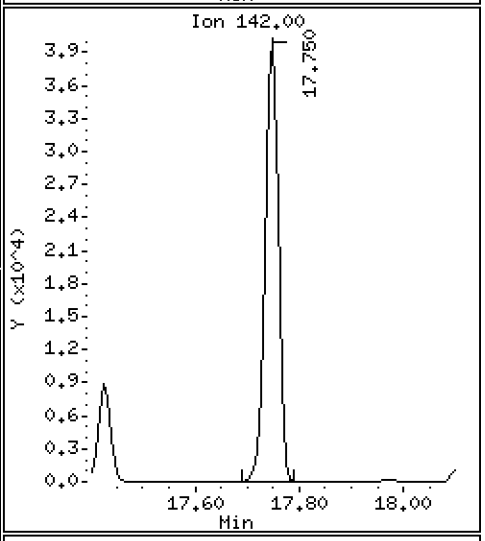
57 Hexachlorobenzene

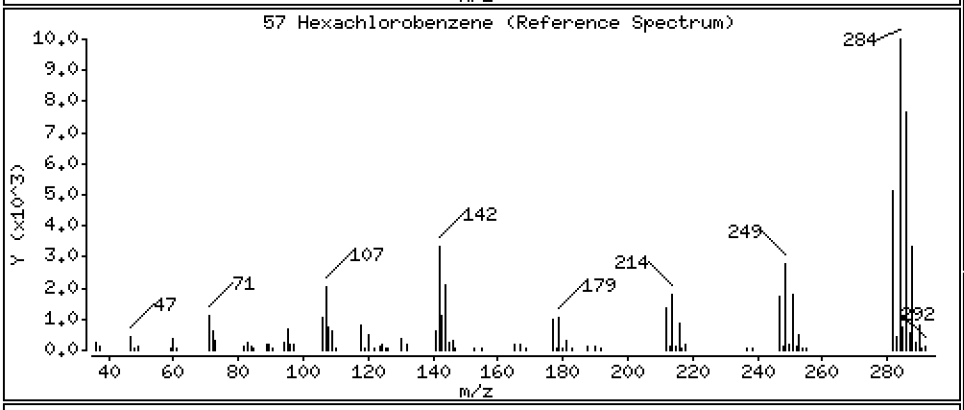
Concentration: 4.553 ug/mL

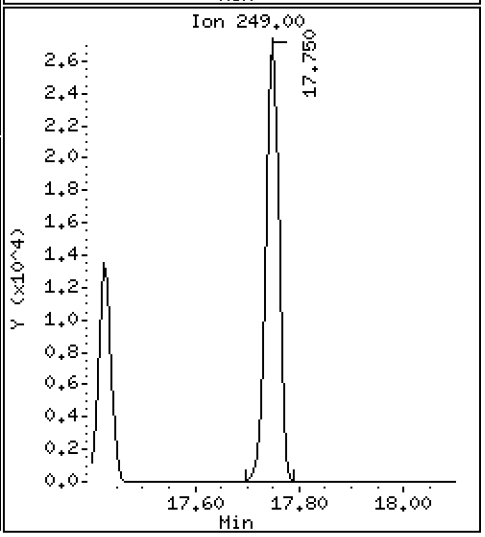


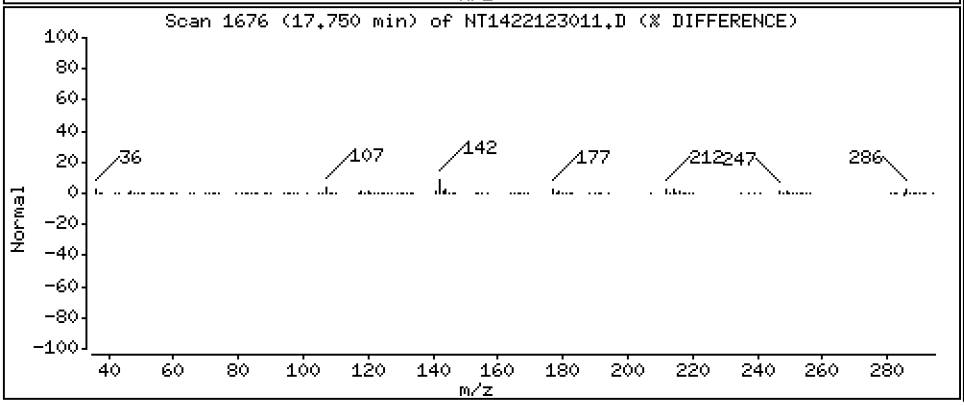












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

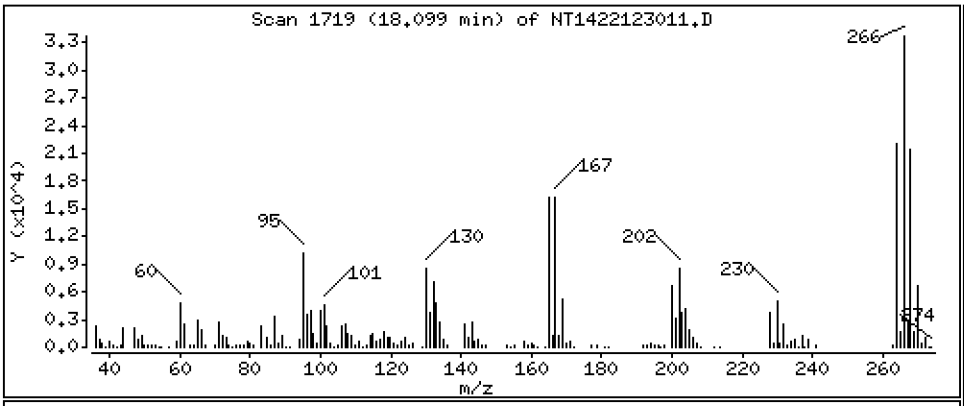
Operator: VTS

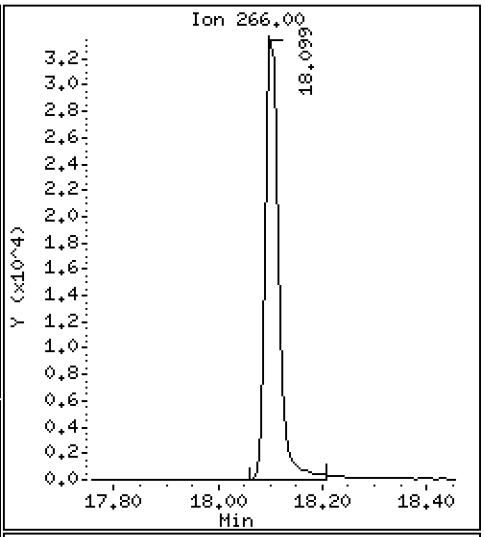
Column phase: ZB-5msi

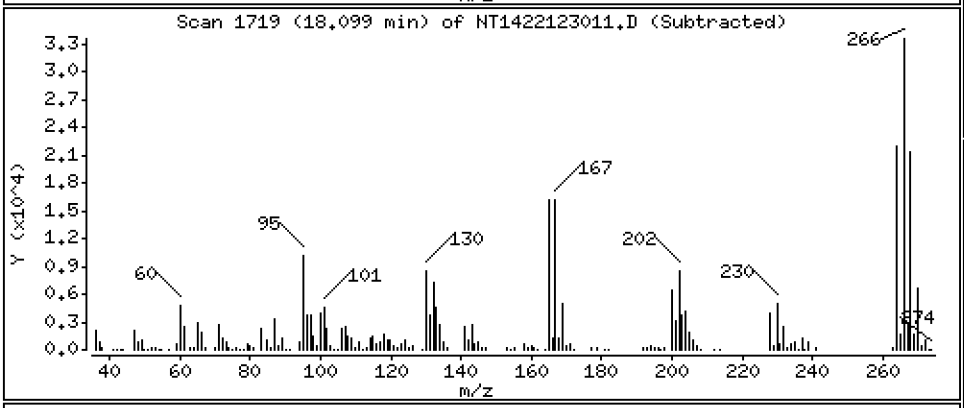
Column diameter: 0.25

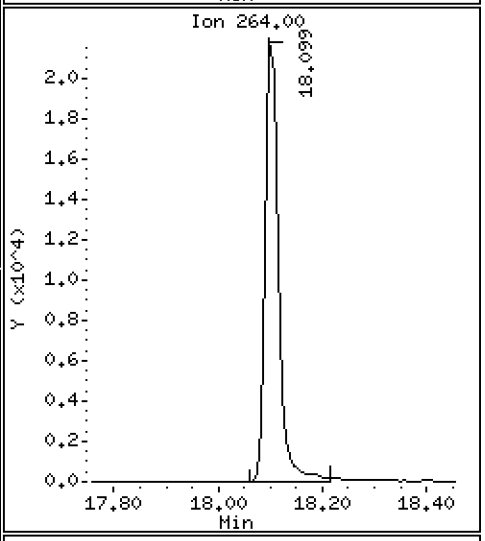
58 Pentachlorophenol

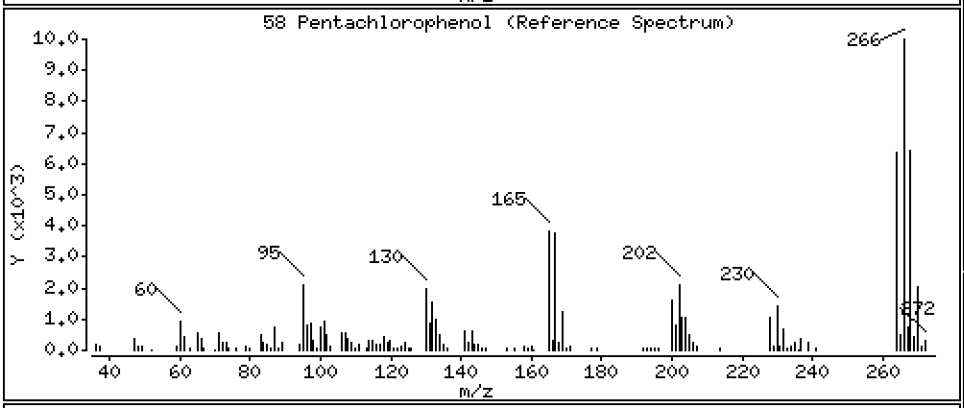
Concentration: 3.796 ug/mL

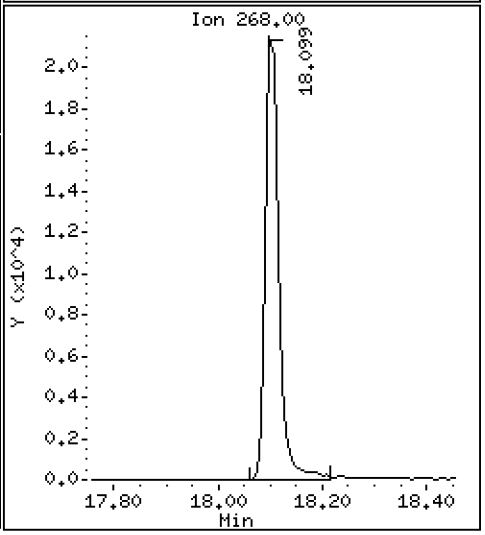


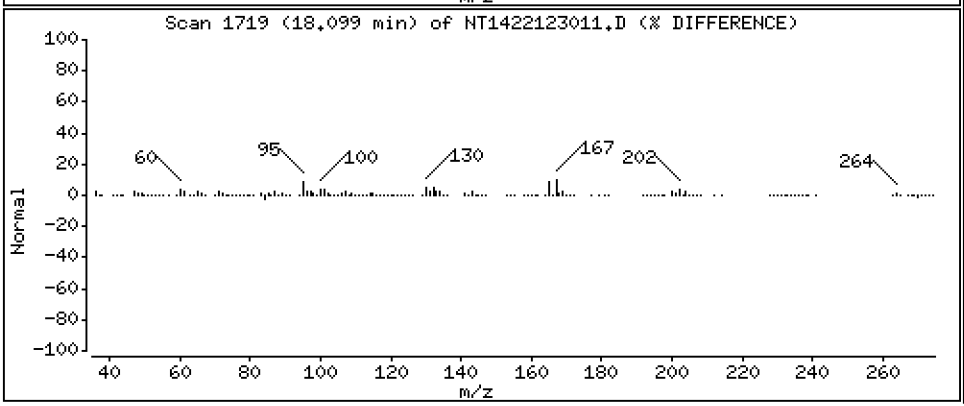












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

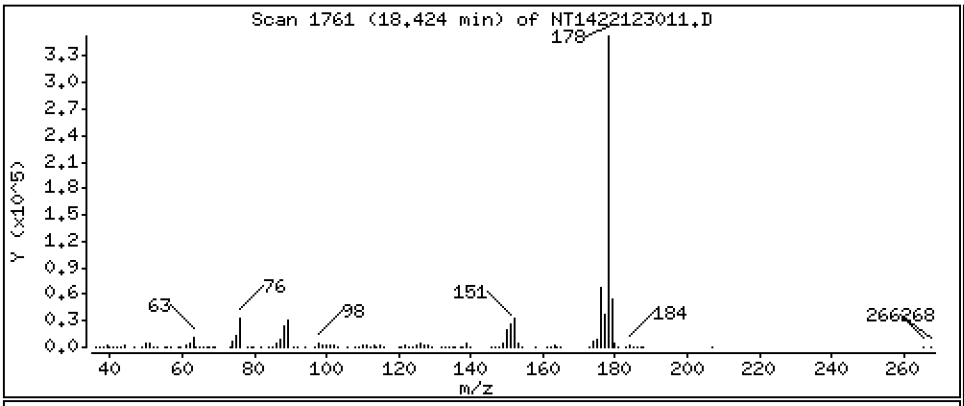
Operator: VTS

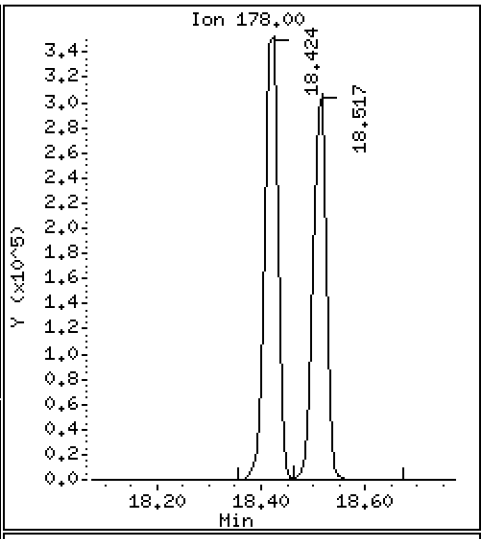
Column phase: ZB-5msi

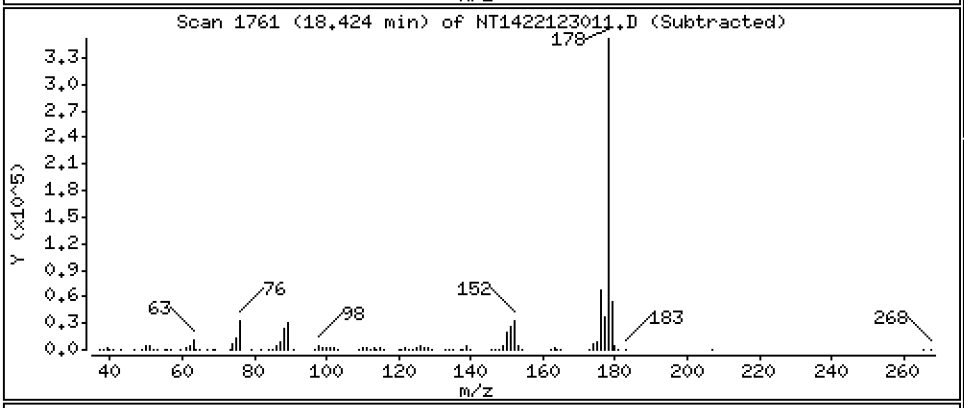
Column diameter: 0.25

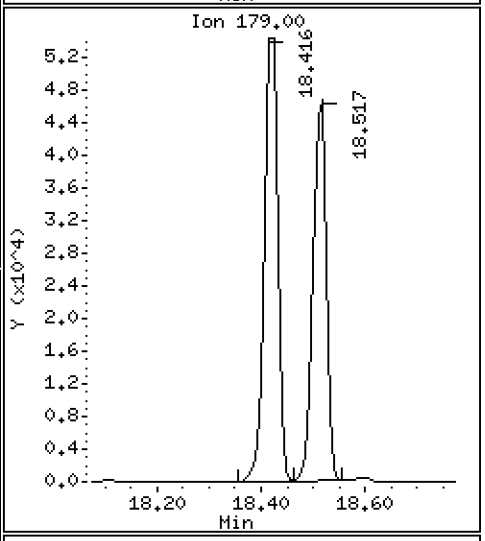
60 Phenanthrene

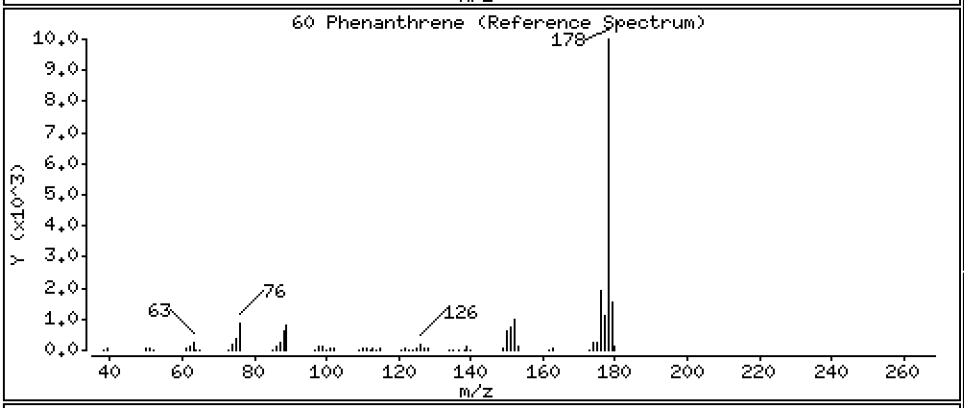
Concentration: 4.767 ug/mL

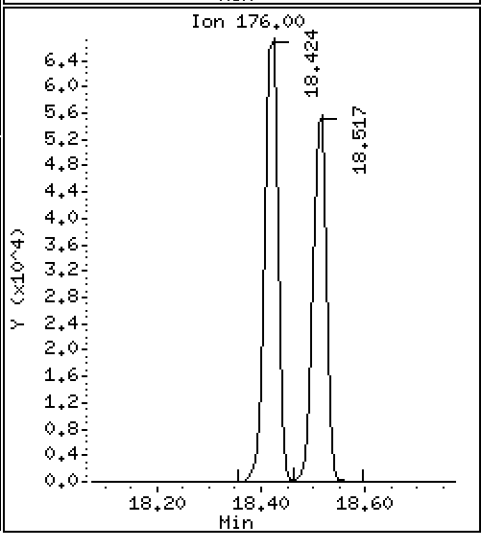


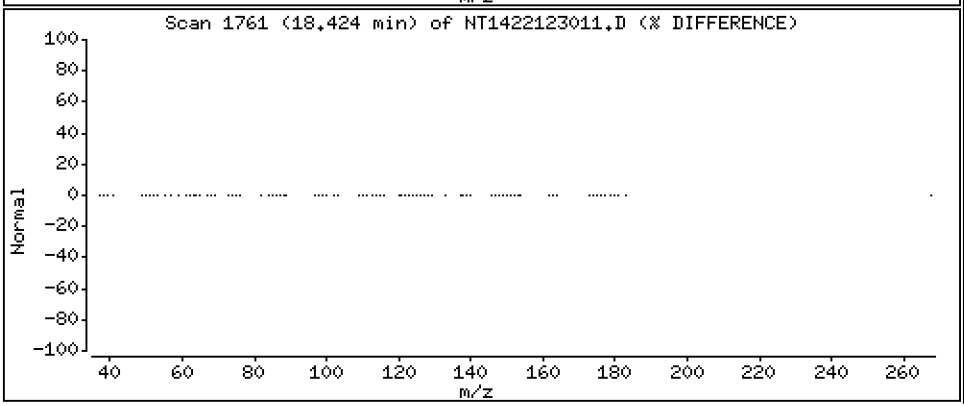












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

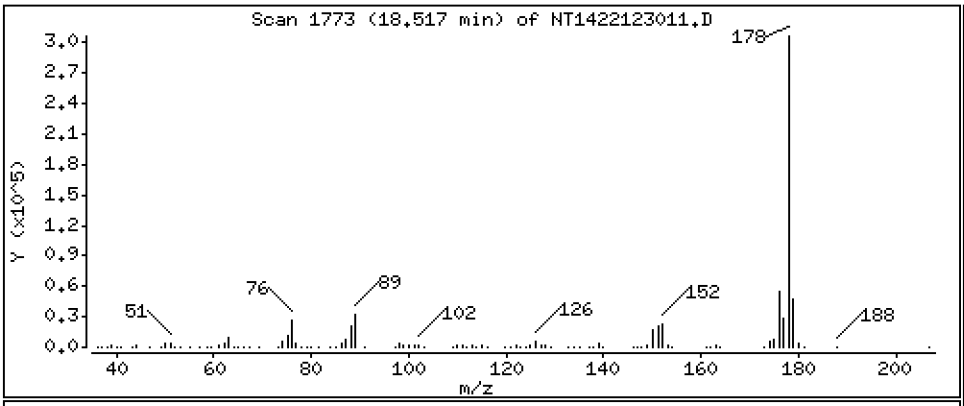
Operator: VTS

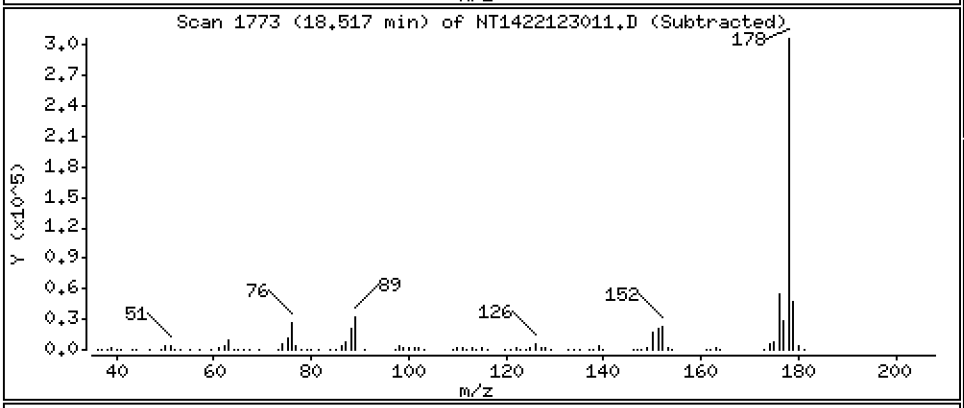
Column phase: ZB-5msi

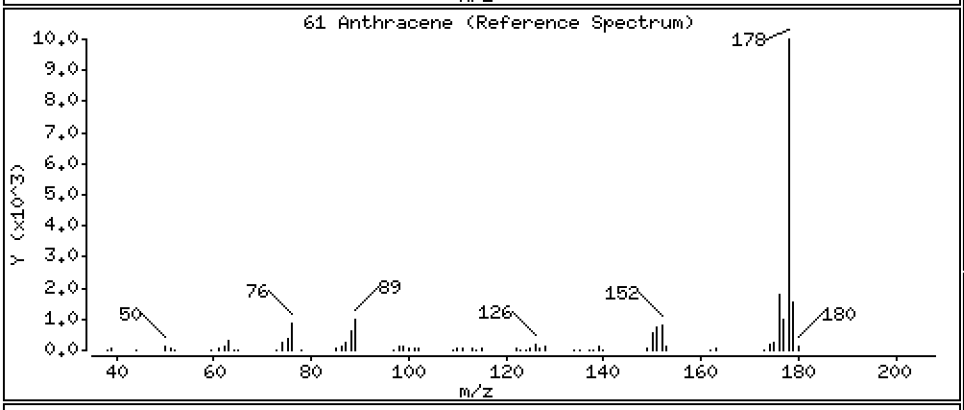
Column diameter: 0.25

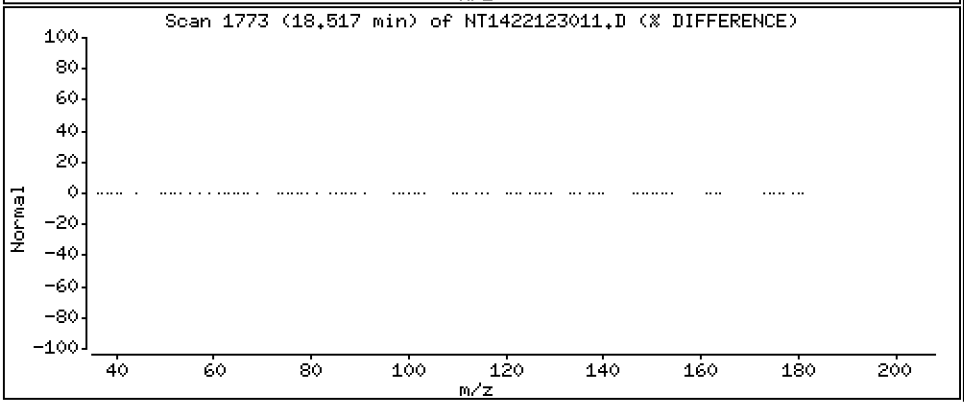
61 Anthracene

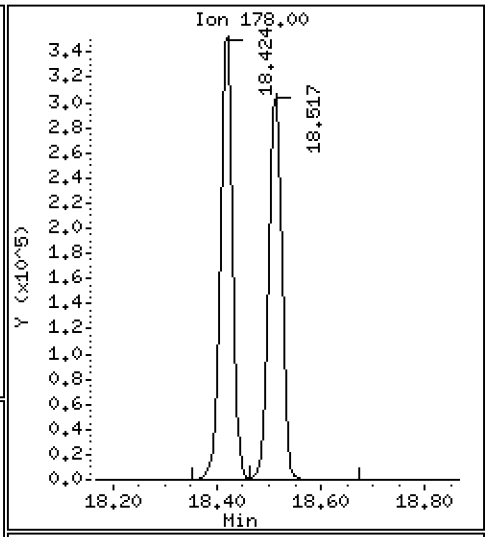
Concentration: 4.373 ug/mL

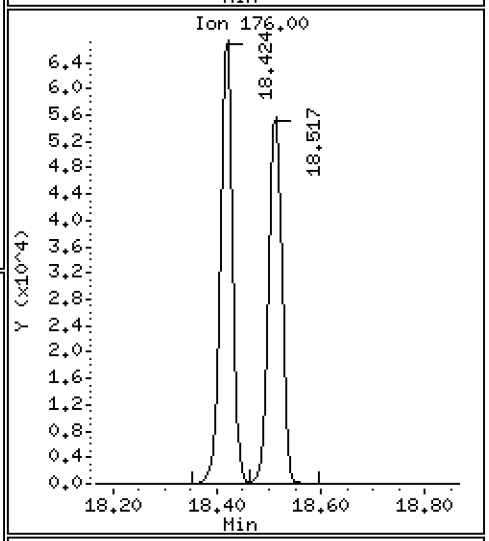


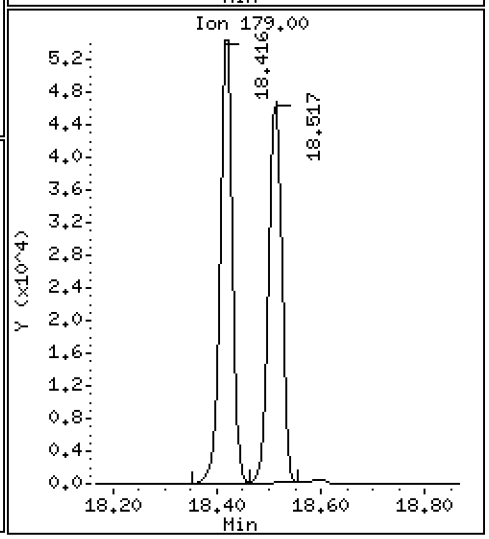












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

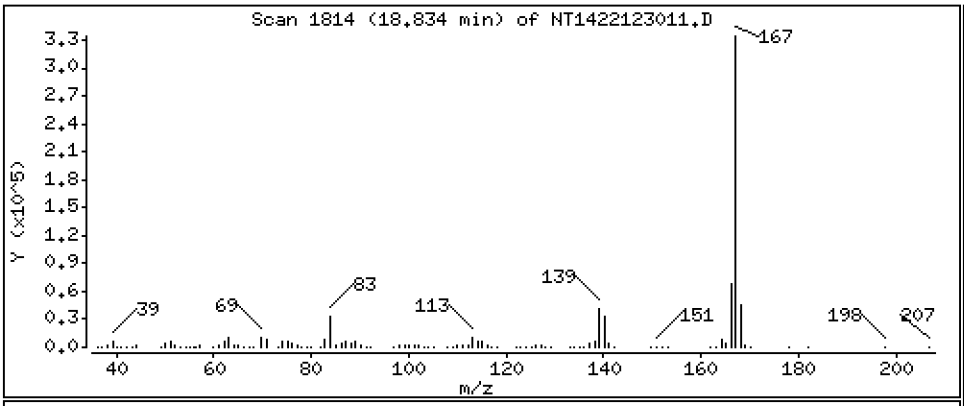
Operator: VTS

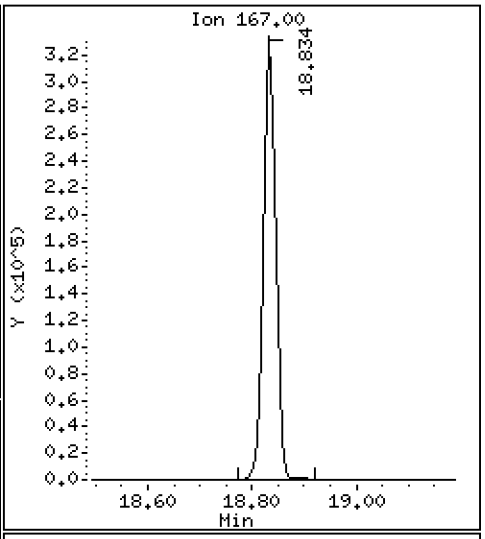
Column phase: ZB-5msi

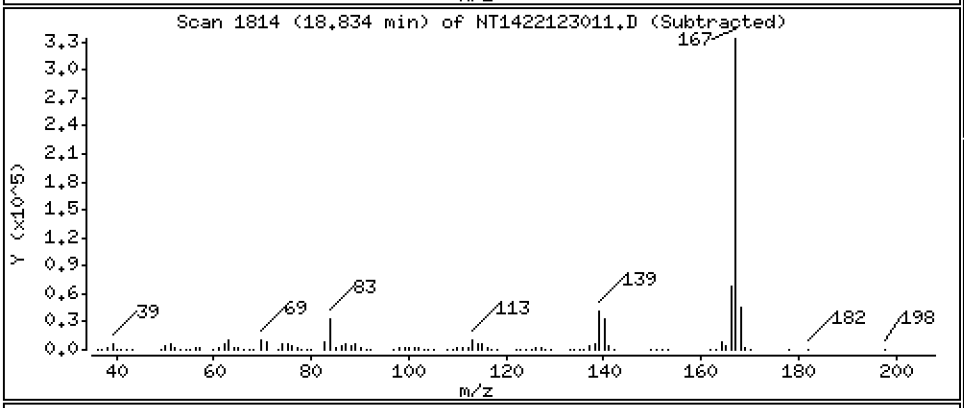
Column diameter: 0.25

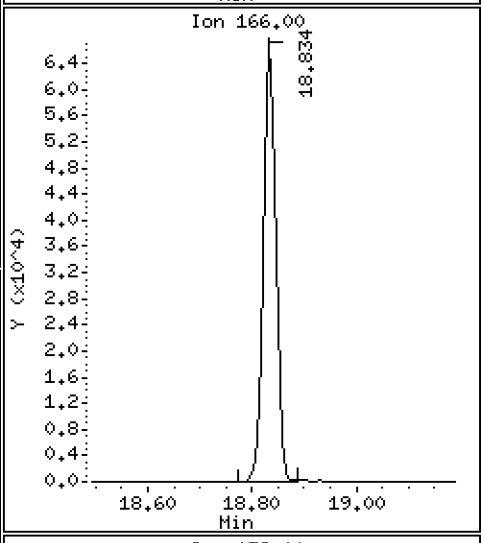
62 Carbazole

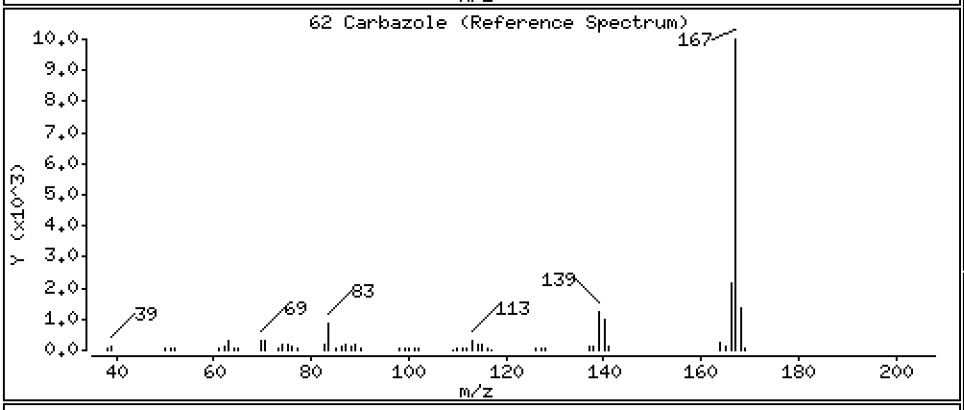
Concentration: 4.620 ug/mL

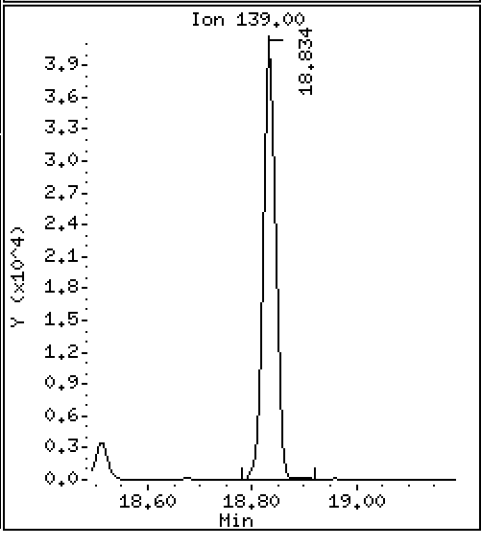


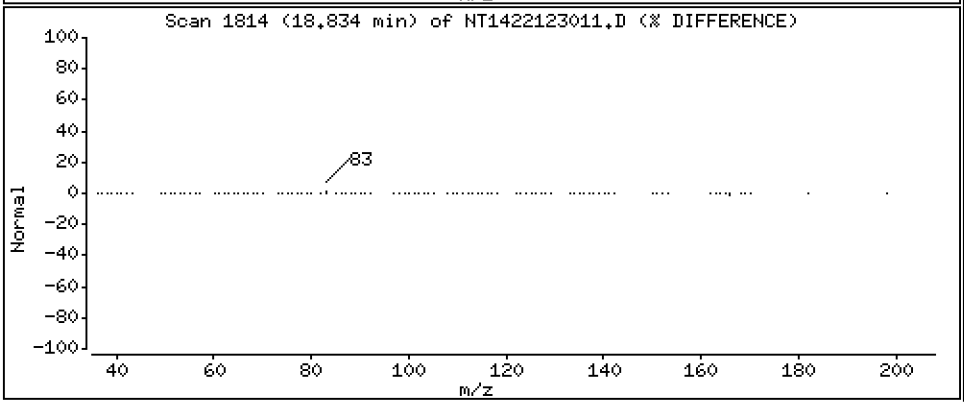












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

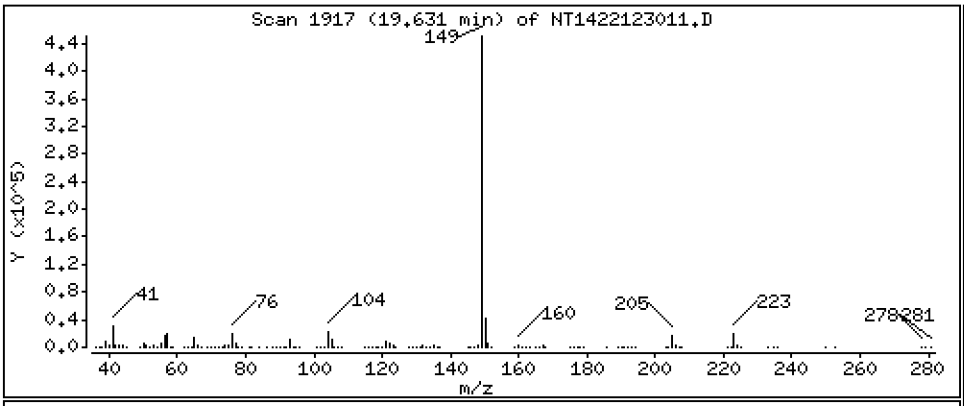
Operator: VTS

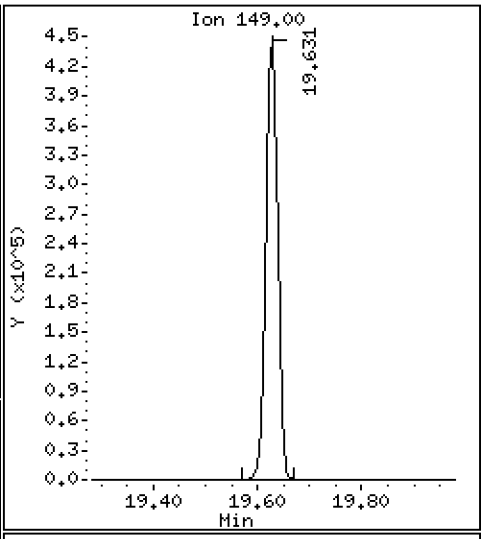
Column phase: ZB-5msi

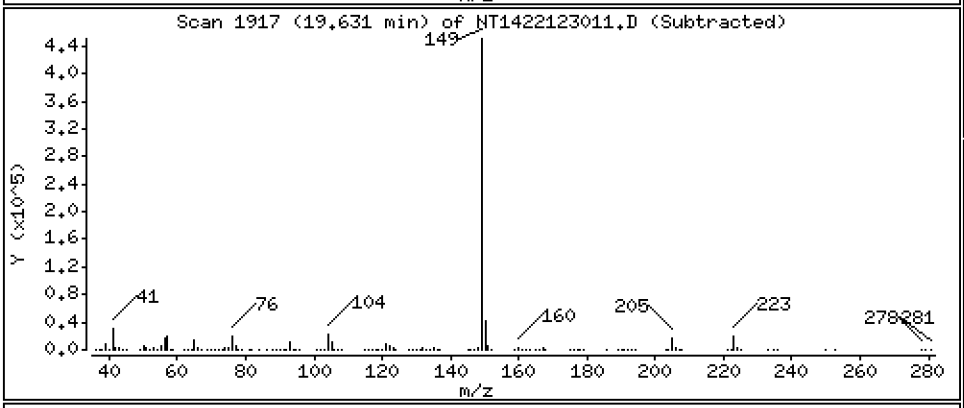
Column diameter: 0.25

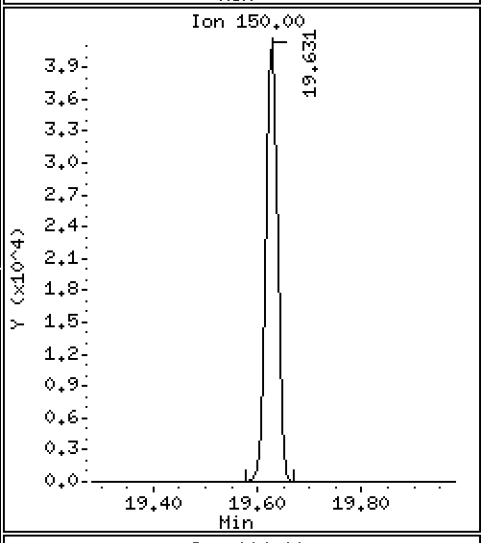
63 Di-n-butylphthalate

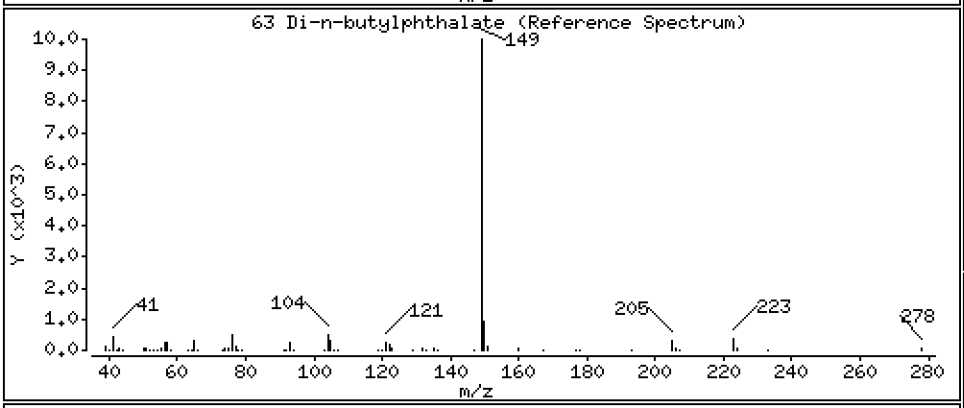
Concentration: 4.931 ug/mL

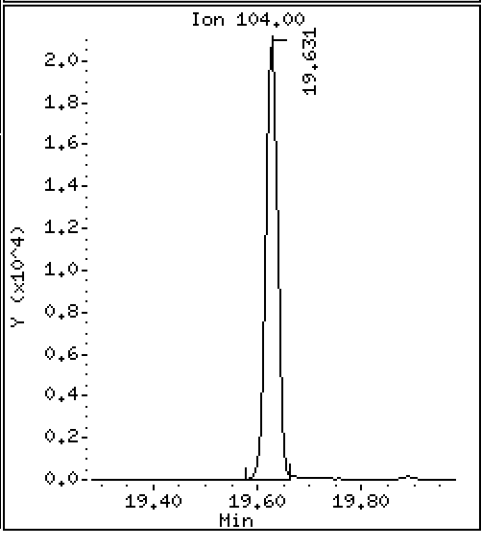


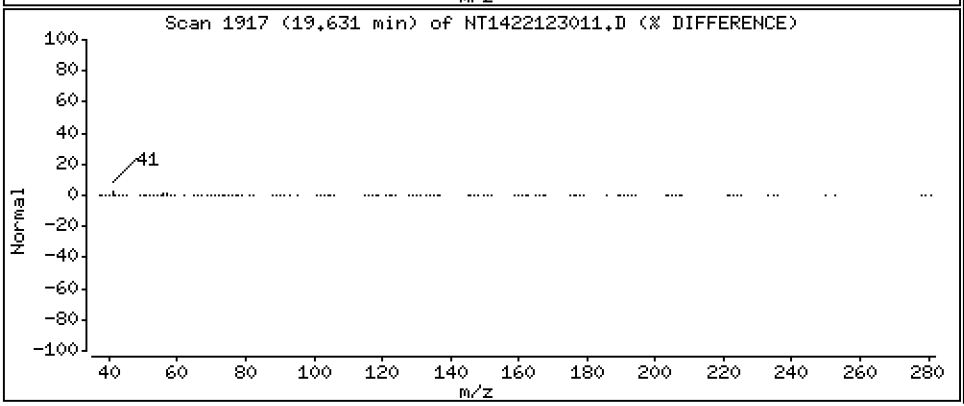












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

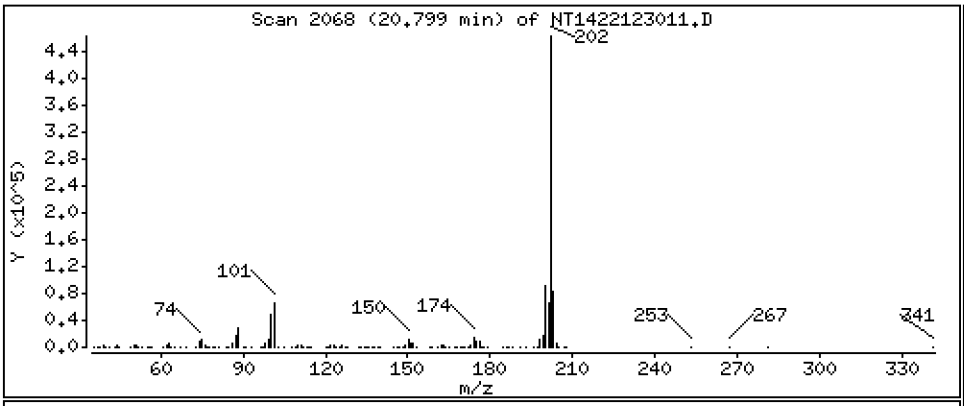
Operator: VTS

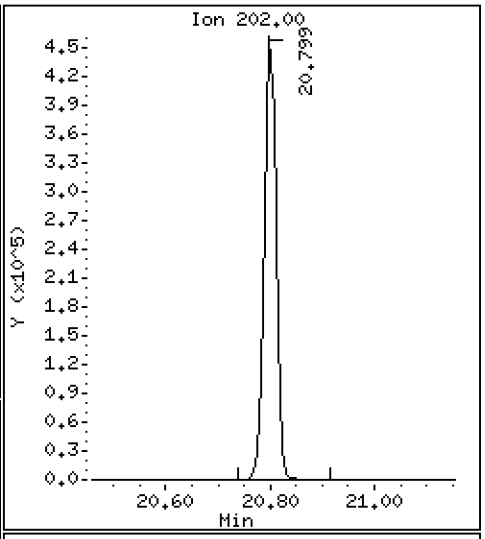
Column phase: ZB-5msi

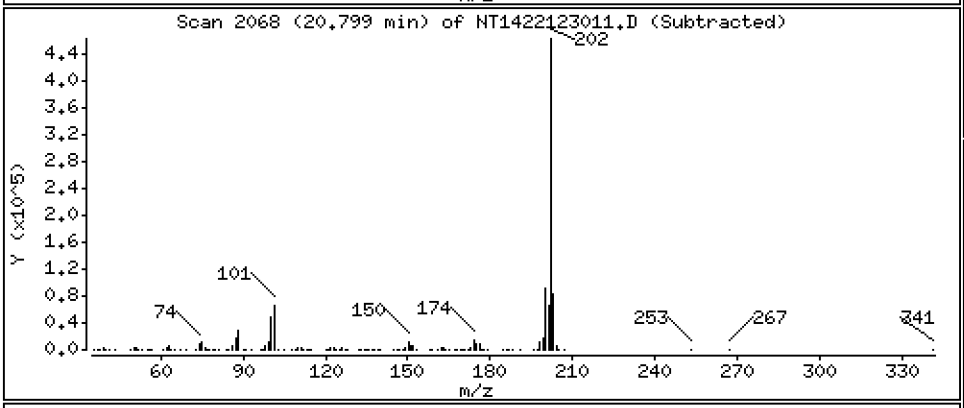
Column diameter: 0.25

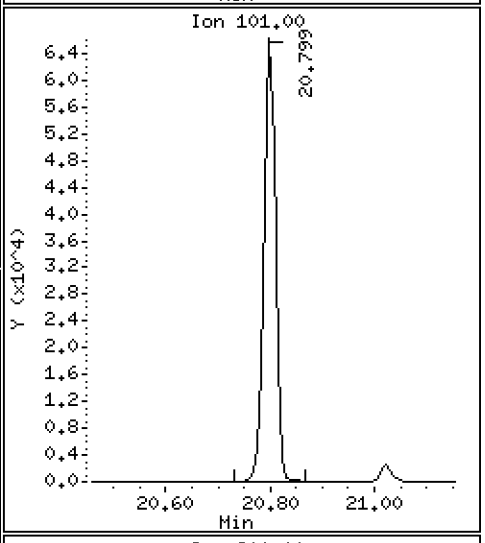
64 Fluoranthene

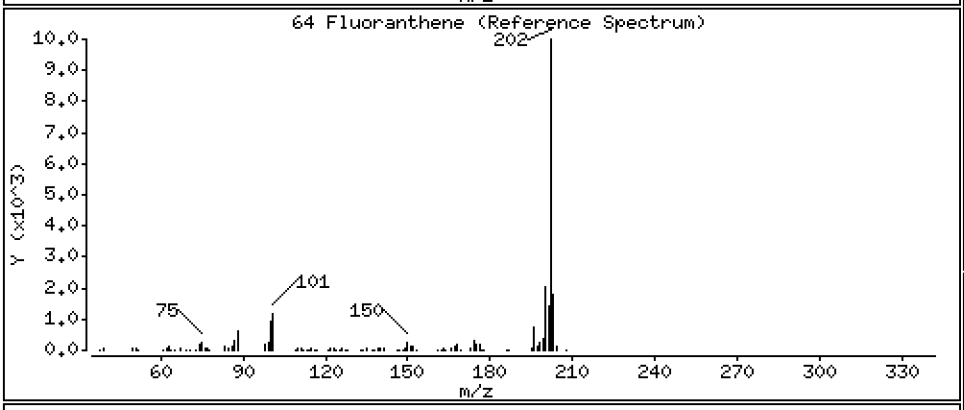
Concentration: 5.090 ug/mL

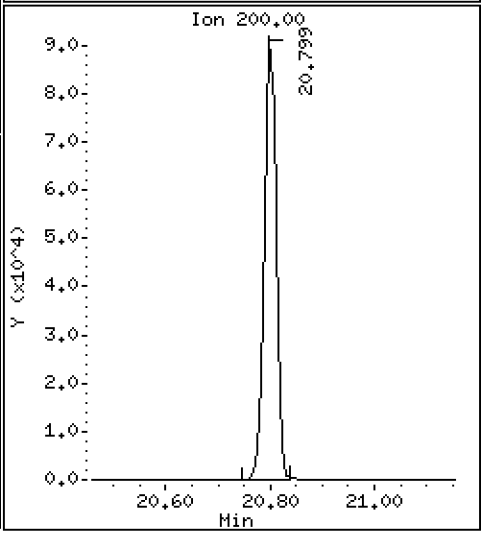


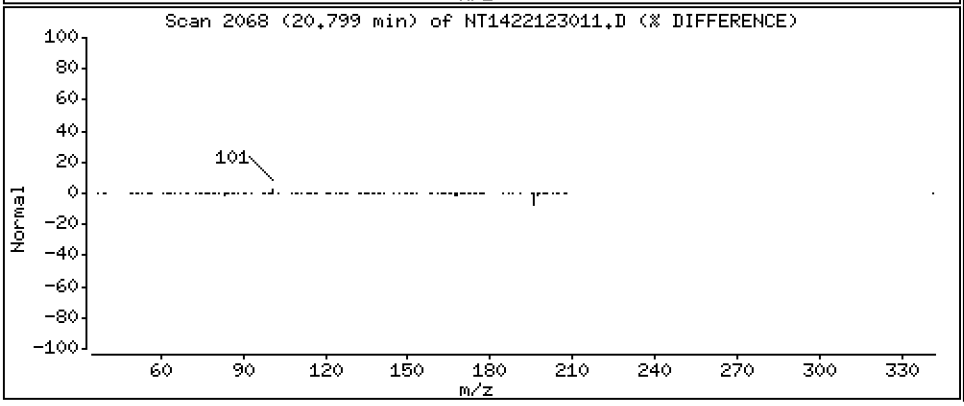












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

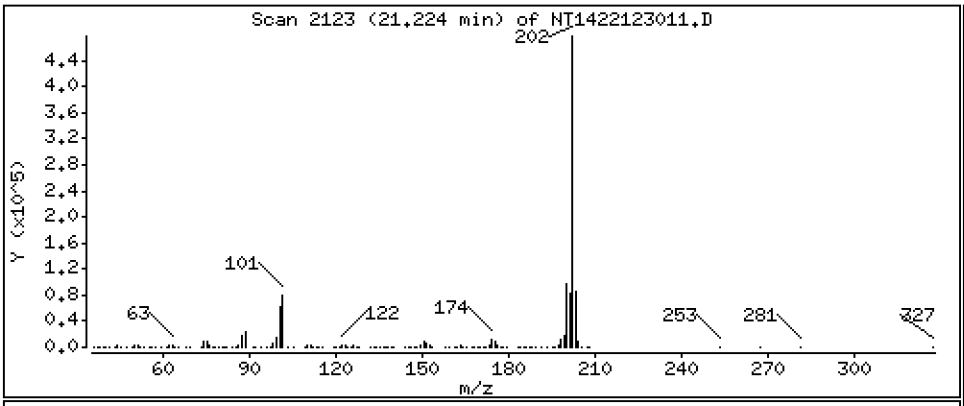
Operator: VTS

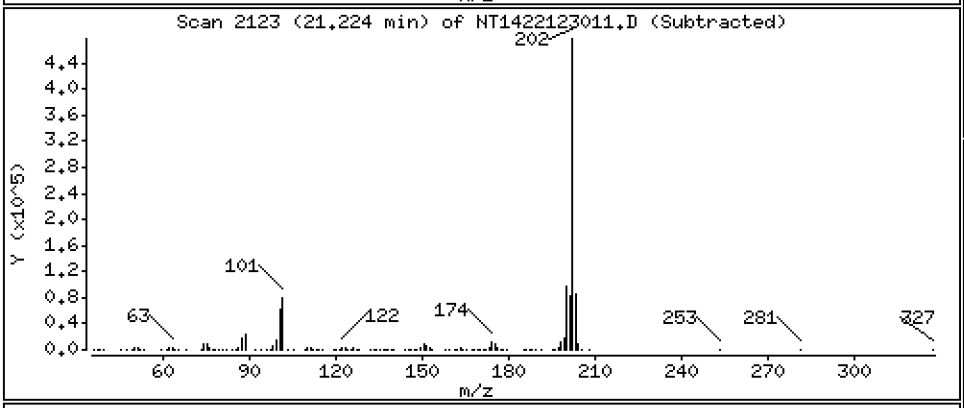
Column phase: ZB-5msi

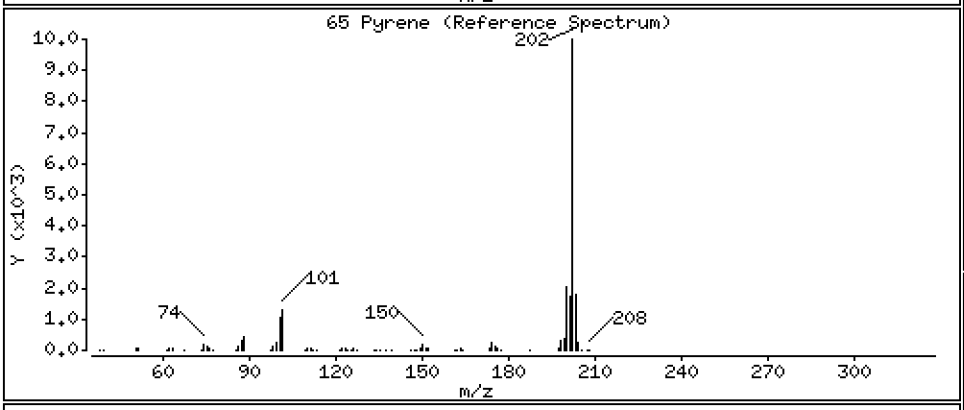
Column diameter: 0.25

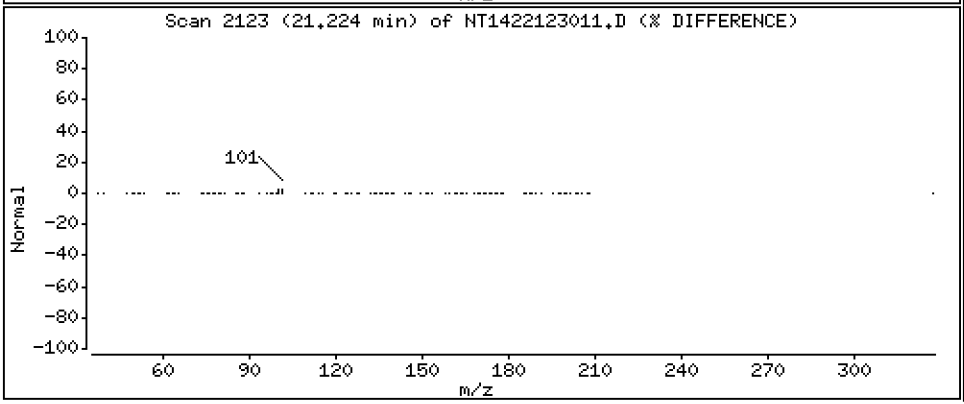
65 Pyrene

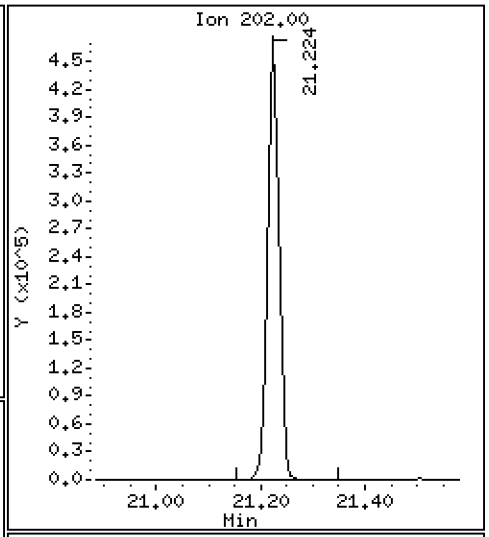
Concentration: 5.022 ug/mL

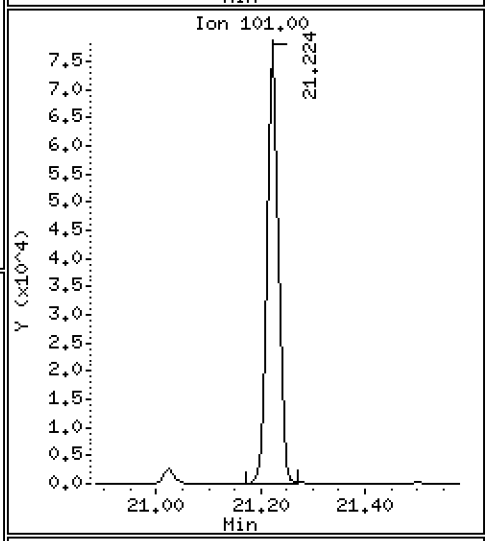


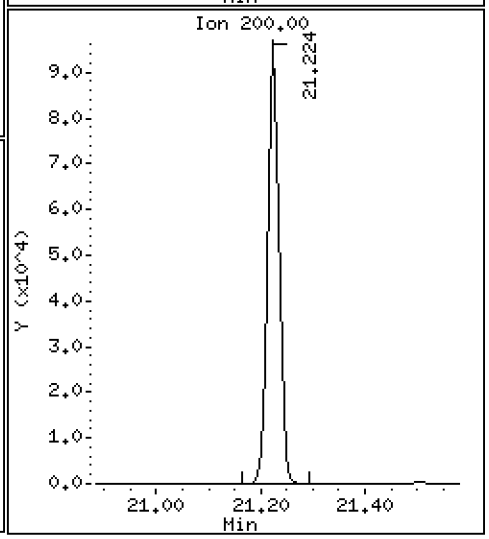












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

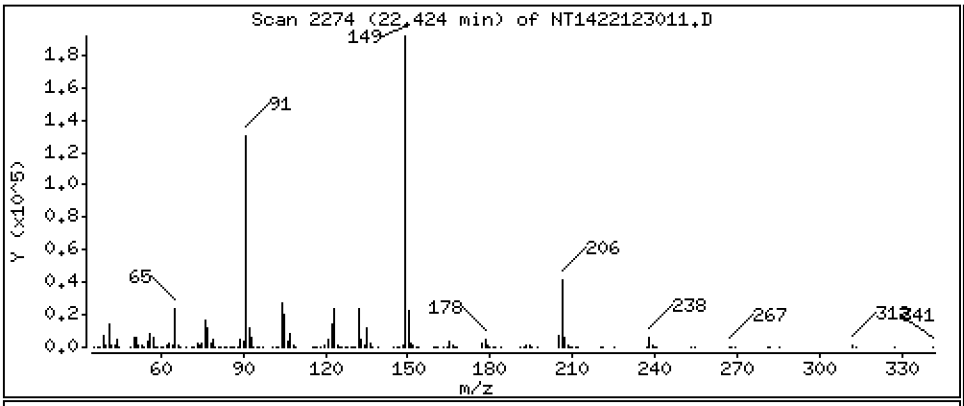
Operator: VTS

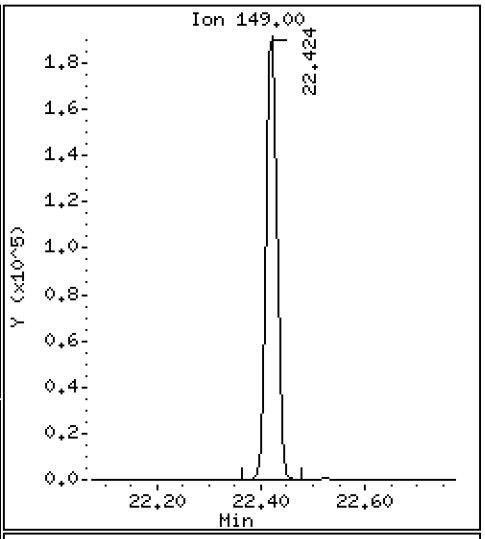
Column phase: ZB-5msi

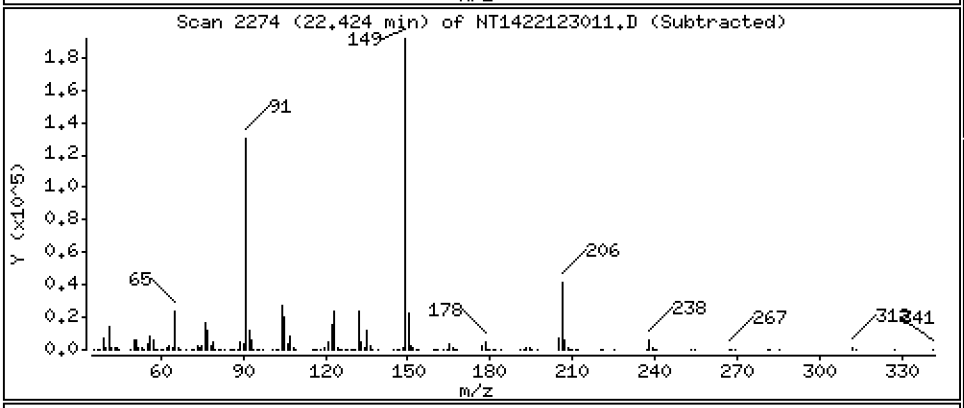
Column diameter: 0.25

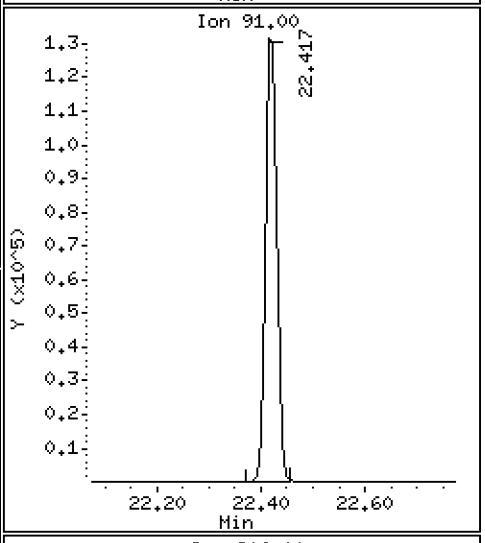
67 Butylbenzylphthalate

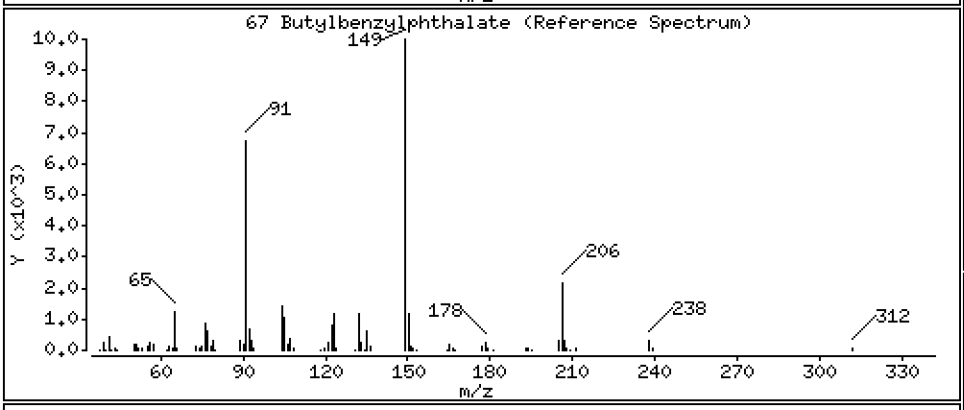
Concentration: 5.005 ug/mL

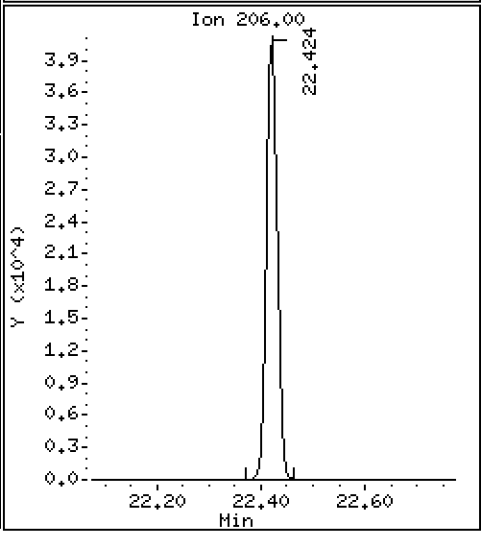


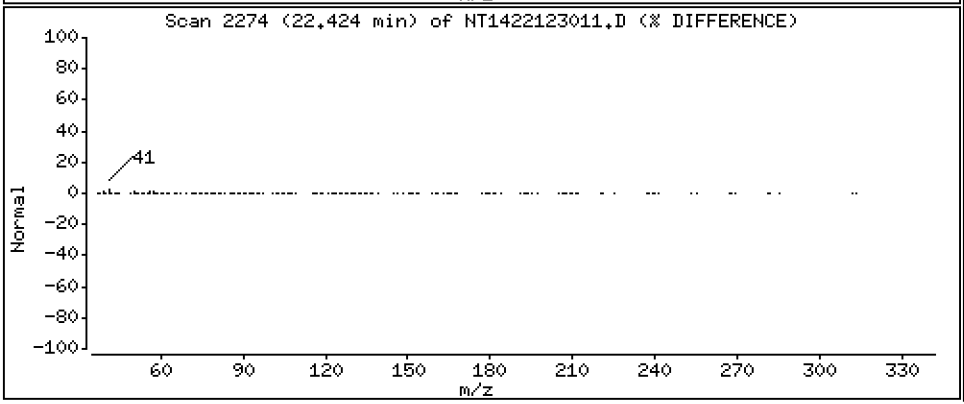












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

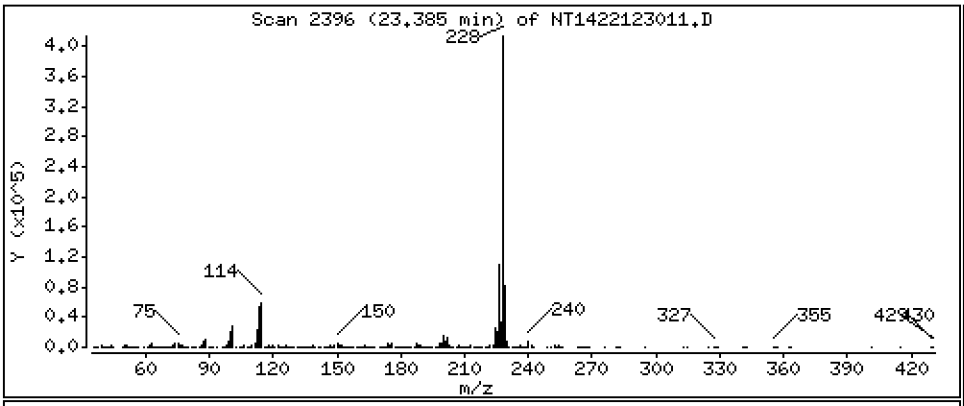
Operator: VTS

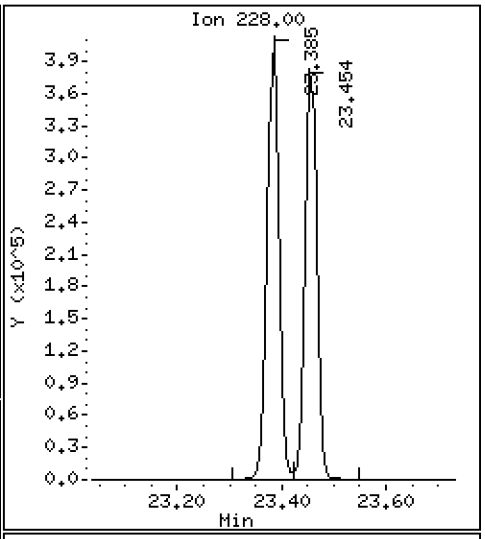
Column phase: ZB-5msi

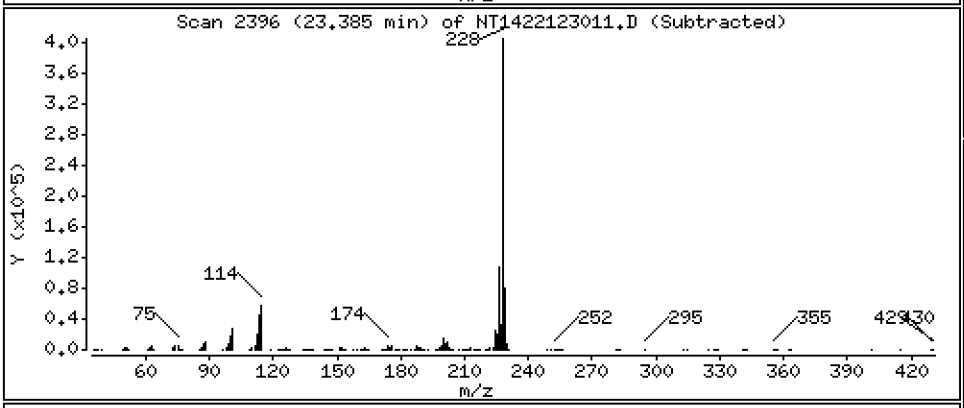
Column diameter: 0.25

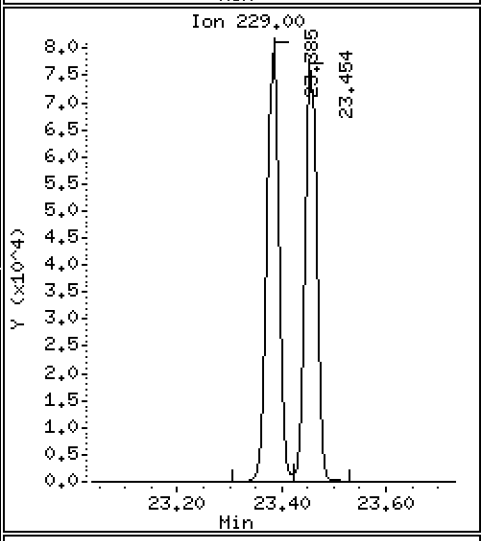
68 Benzo(a)anthracene

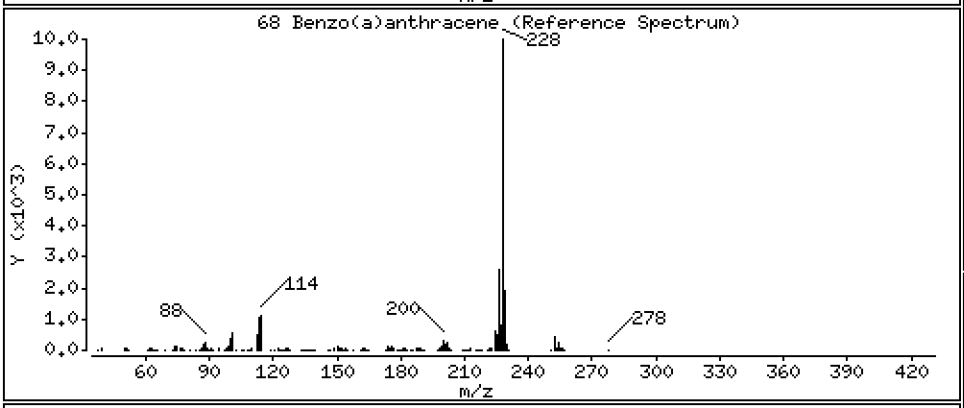
Concentration: 4.890 ug/mL

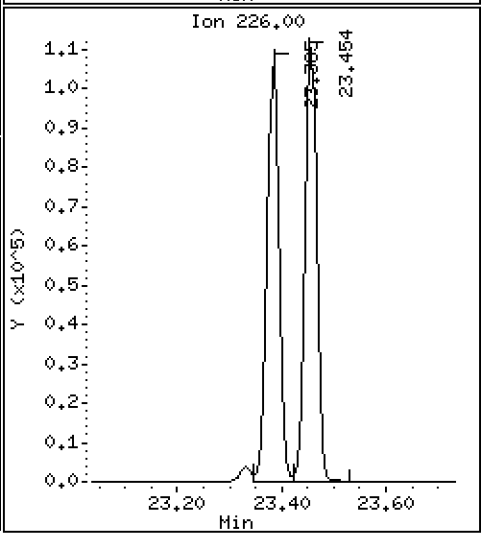


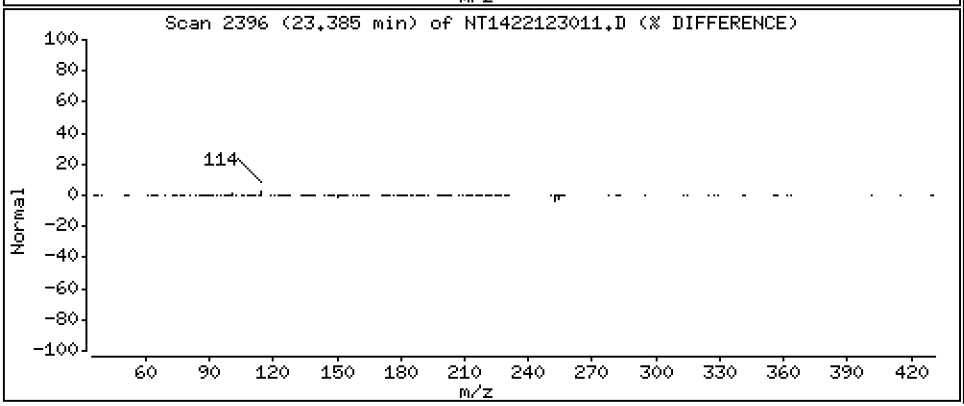












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

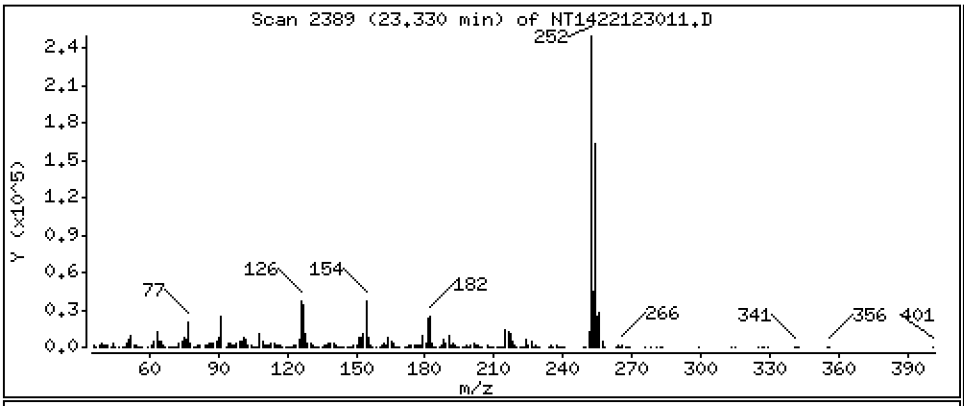
Operator: VTS

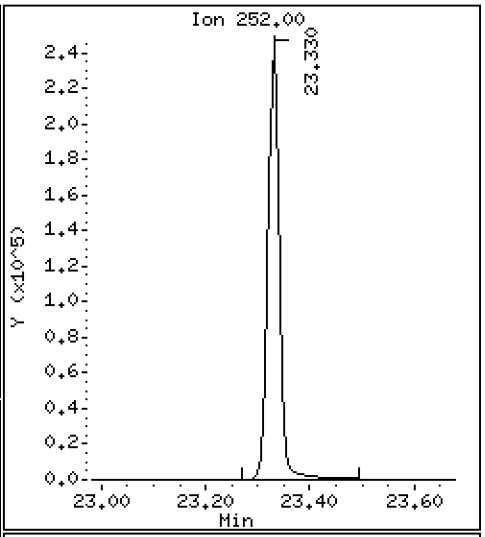
Column phase: ZB-5msi

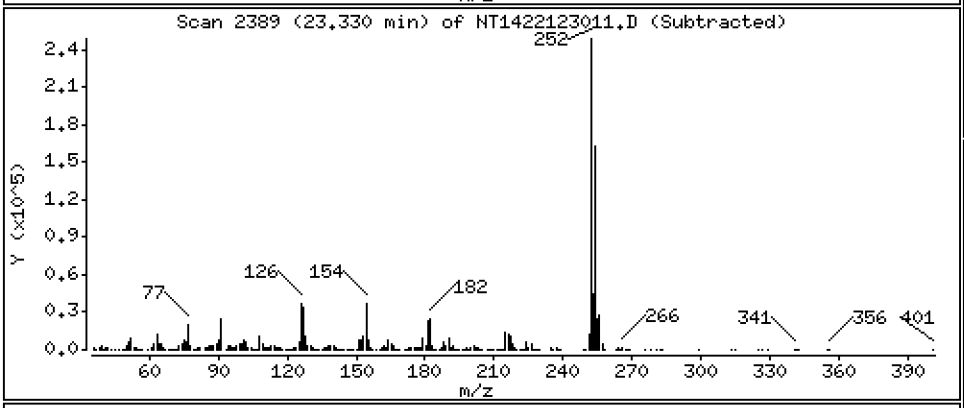
Column diameter: 0.25

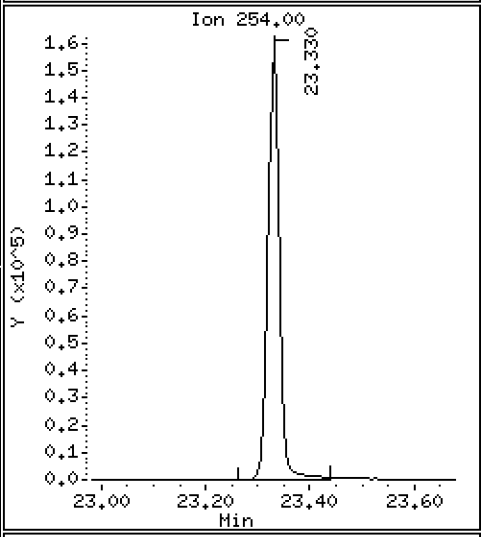
70 3,3'-Dichlorobenzidine

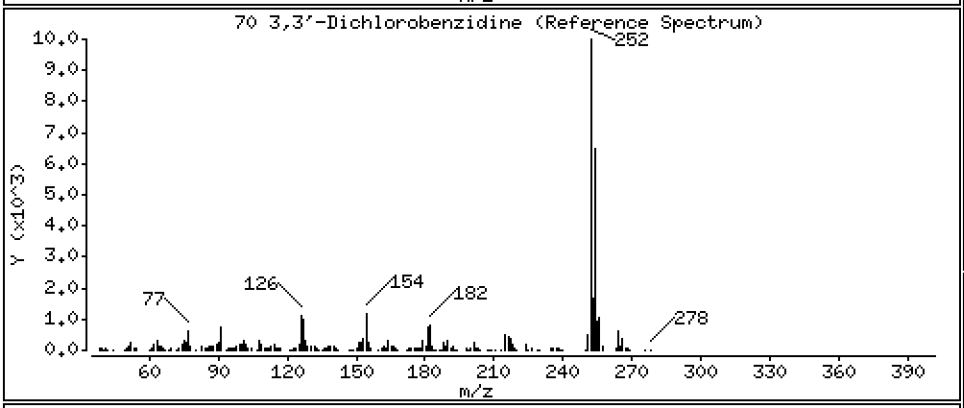
Concentration: 9.207 ug/mL

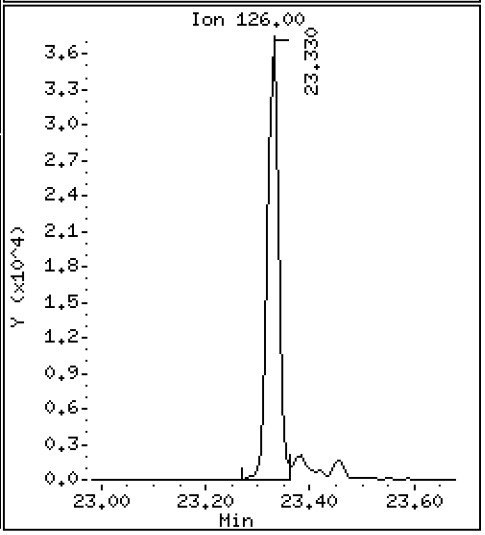


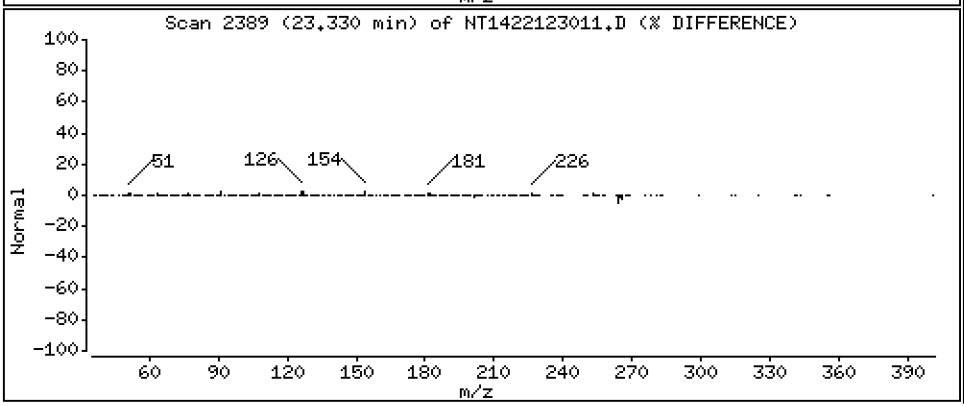












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

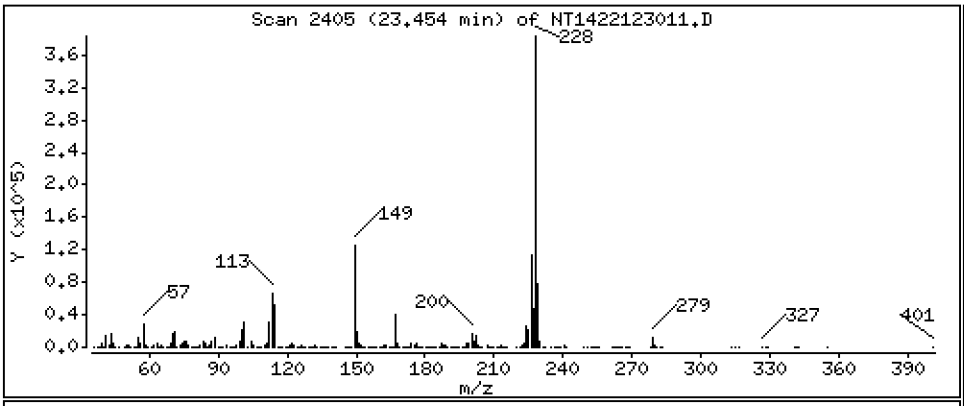
Operator: VTS

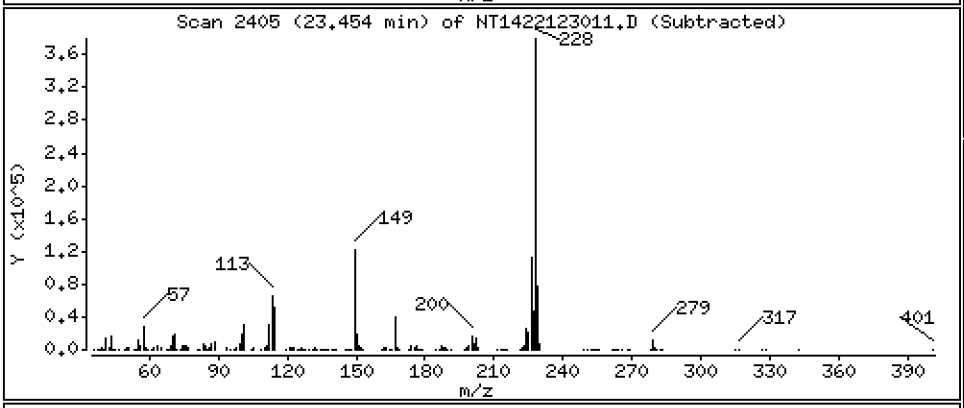
Column phase: ZB-5msi

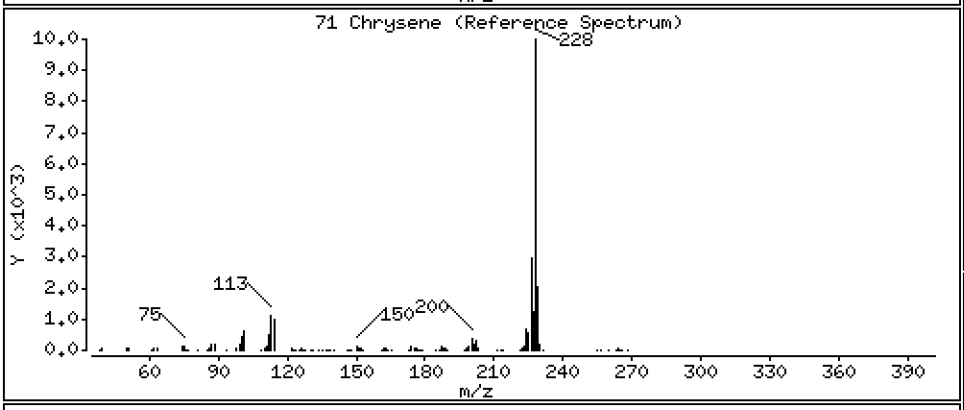
Column diameter: 0.25

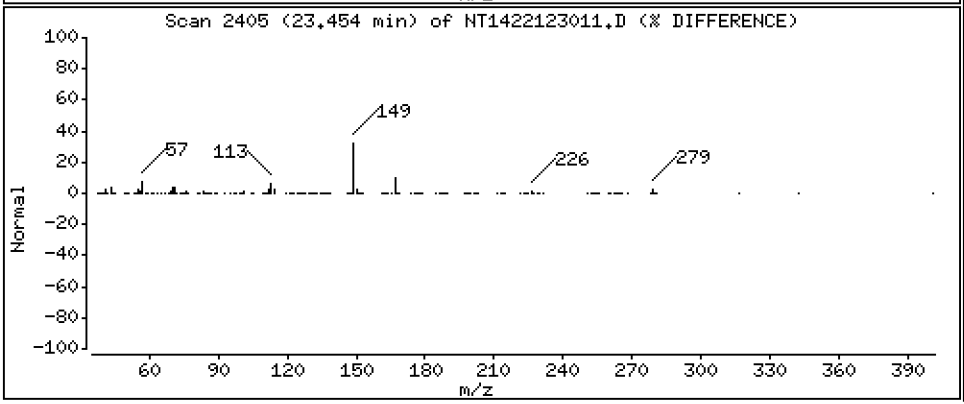
71 Chrysene

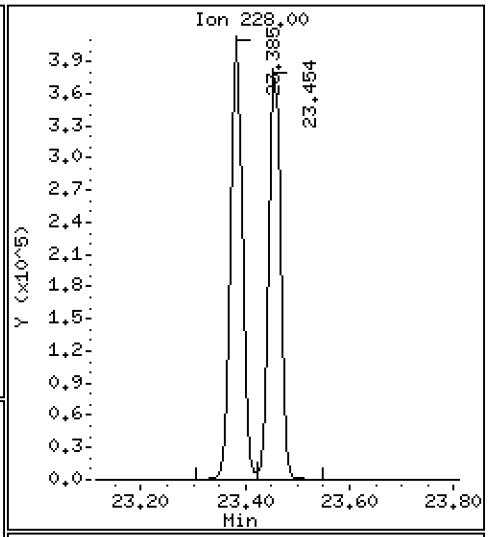
Concentration: 4.763 ug/mL

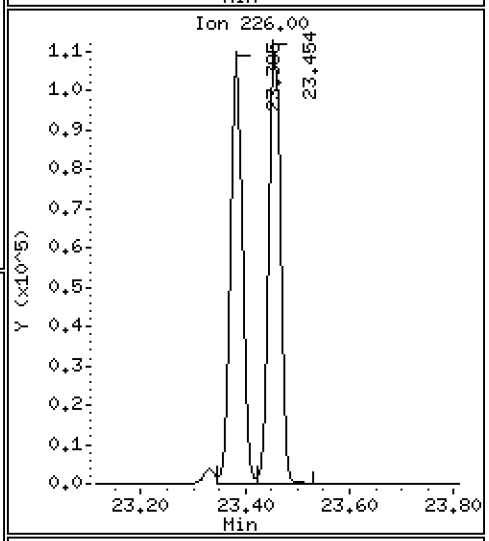


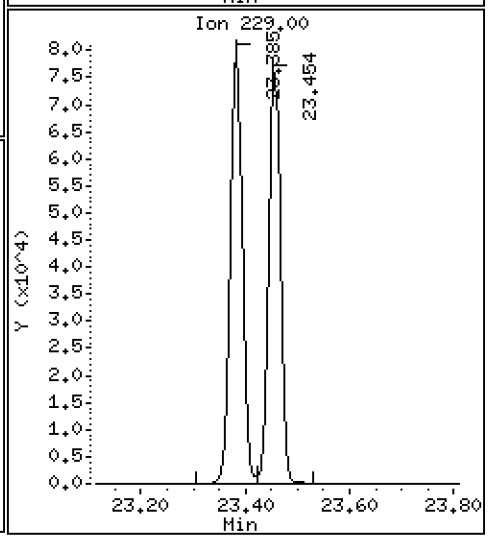












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

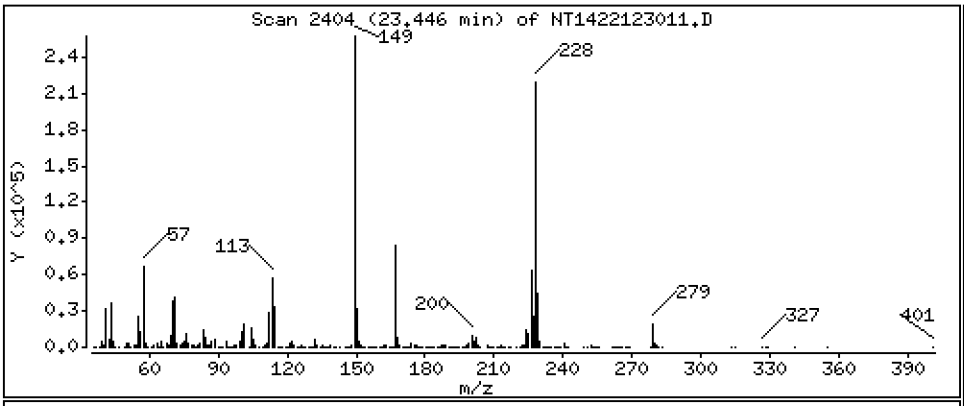
Operator: VTS

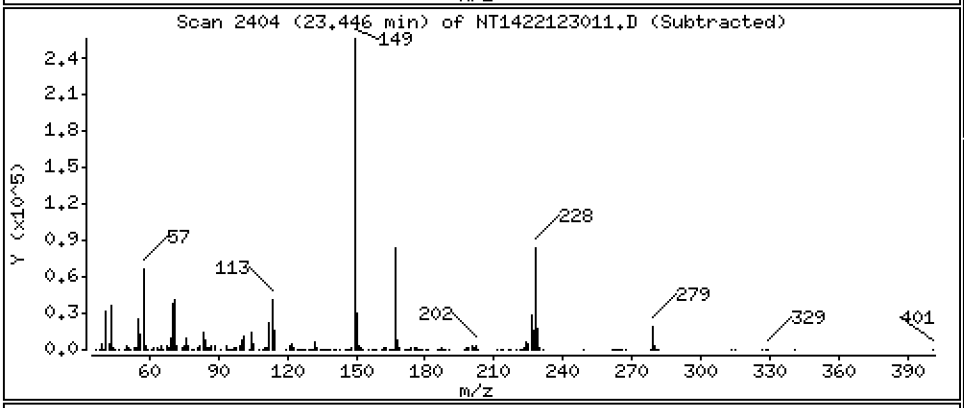
Column phase: ZB-5msi

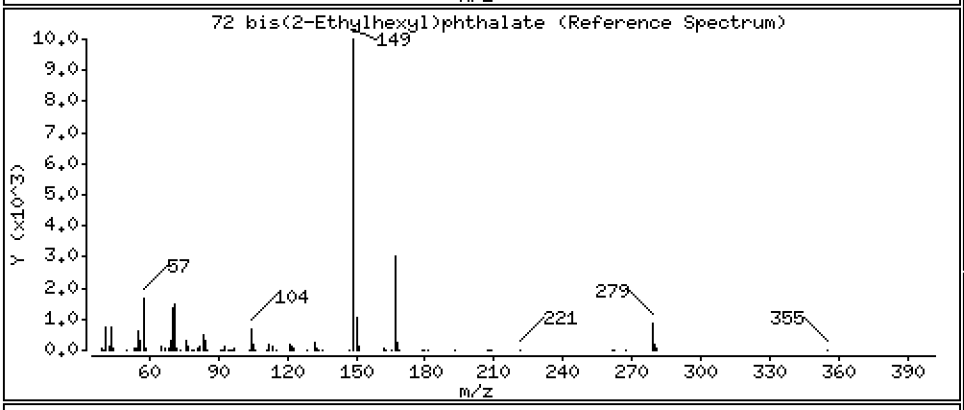
Column diameter: 0.25

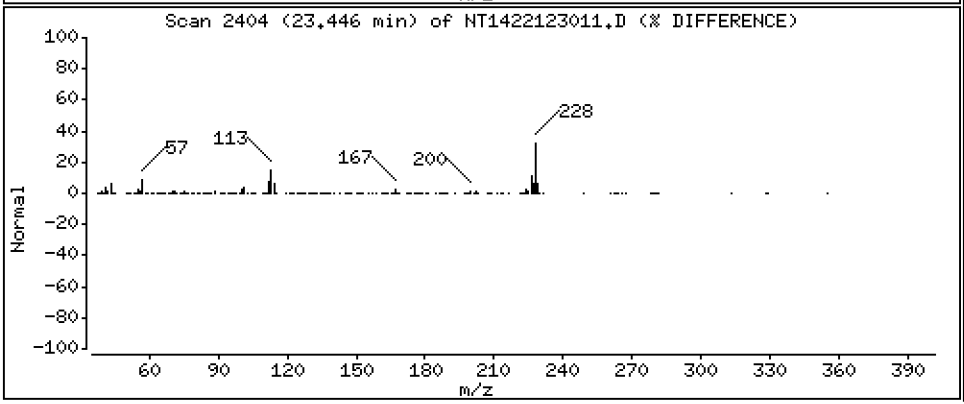
72 bis(2-Ethylhexyl)phthalate

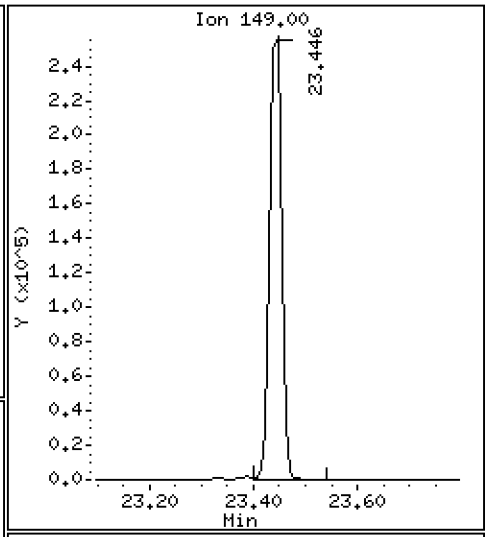
Concentration: 5.899 ug/mL

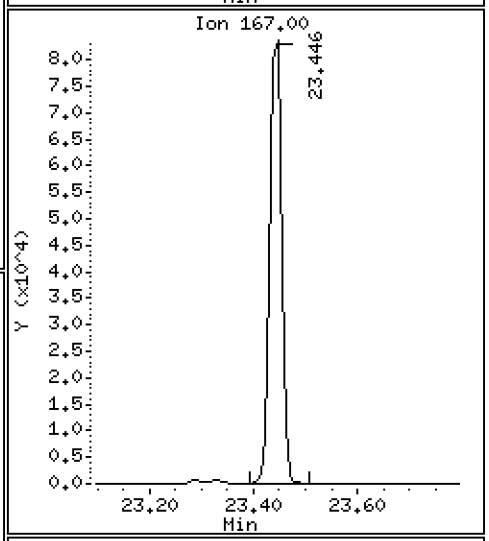


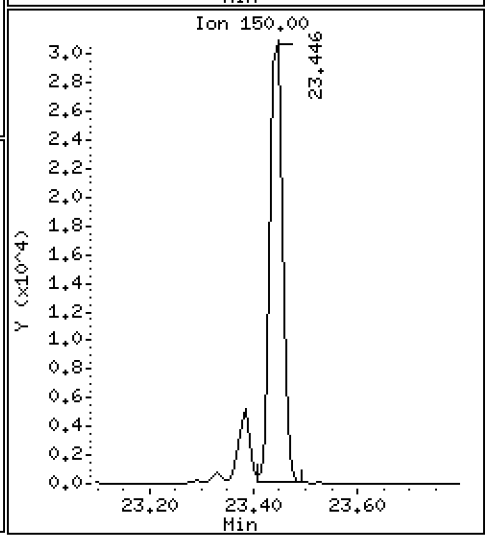












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

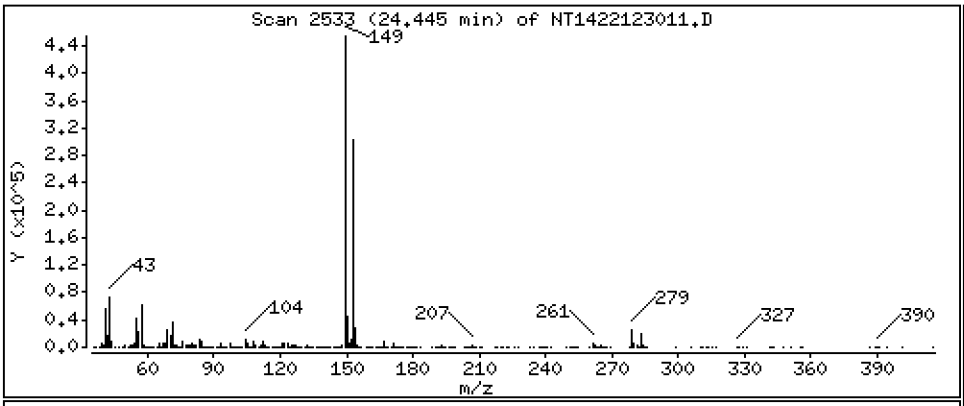
Operator: VTS

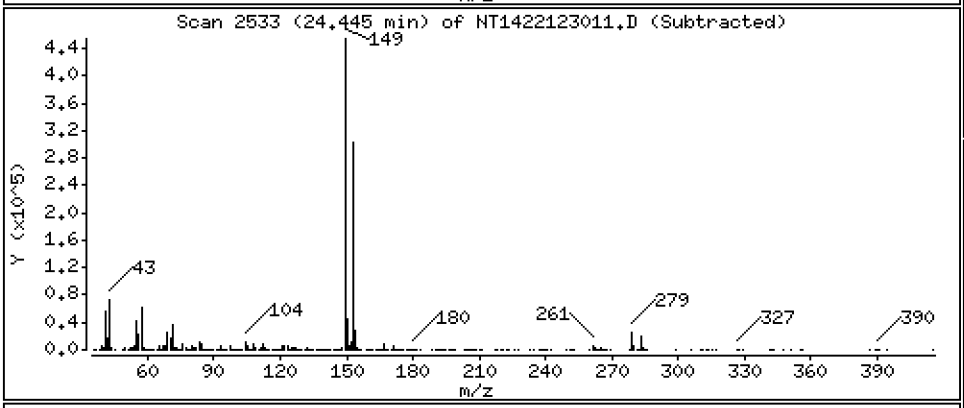
Column phase: ZB-5msi

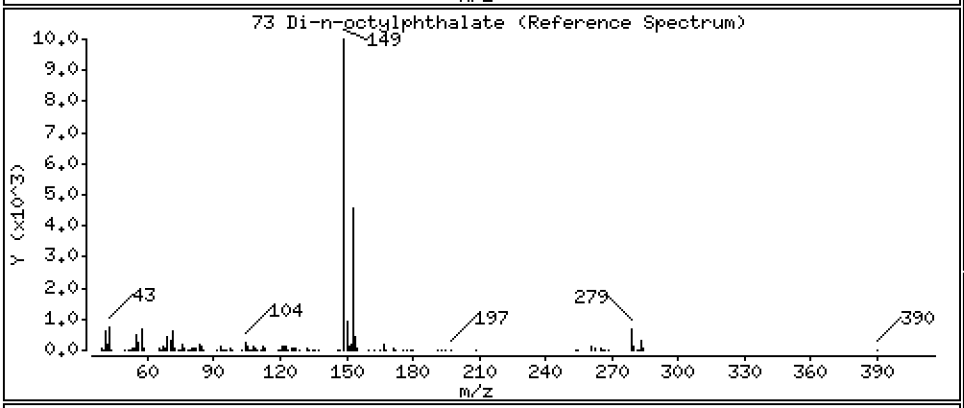
Column diameter: 0.25

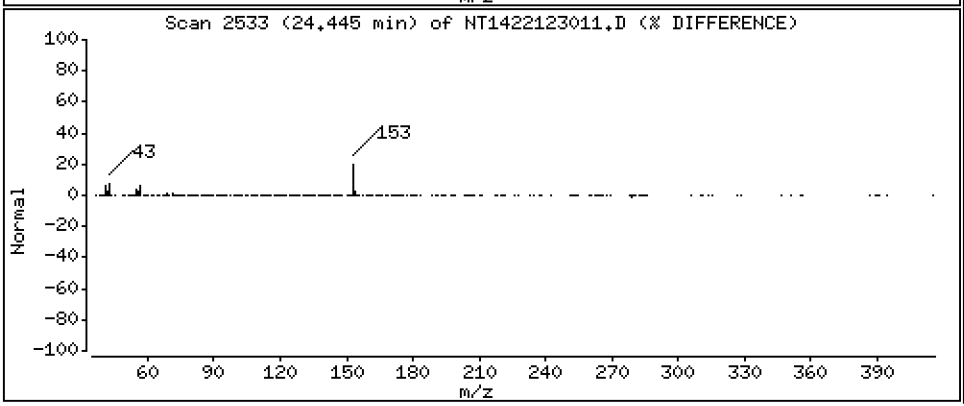
73 Di-n-octylphthalate

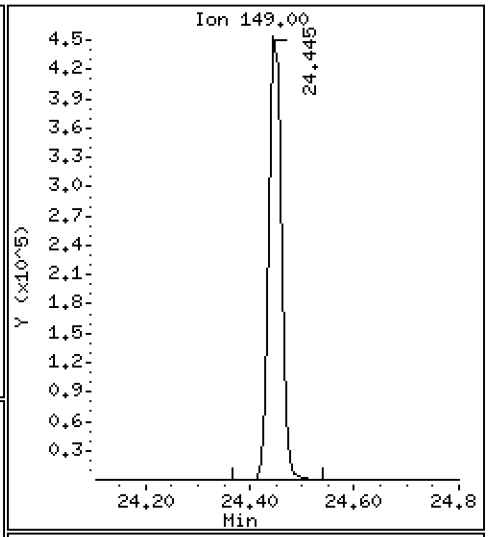
Concentration: 5.083 ug/mL

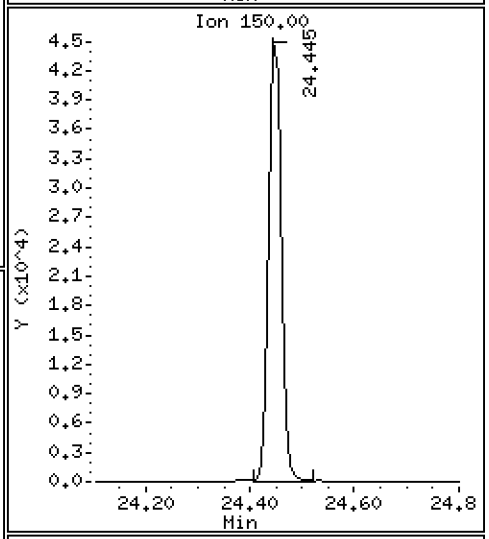


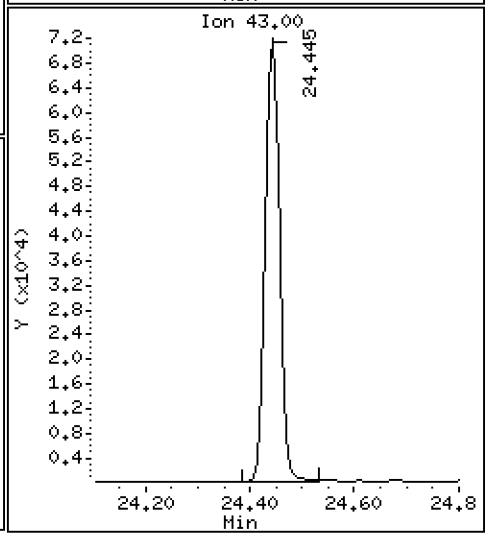












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

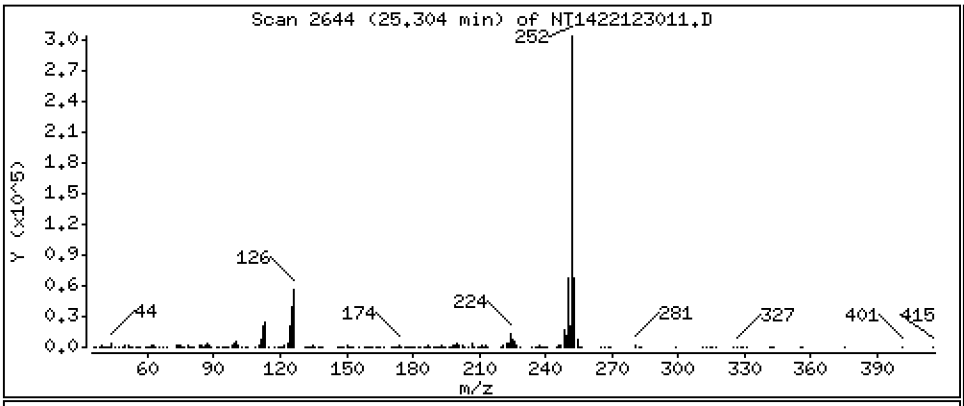
Operator: VTS

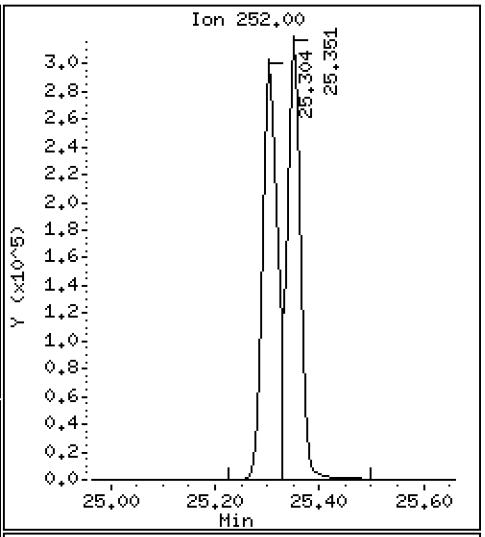
Column phase: ZB-5msi

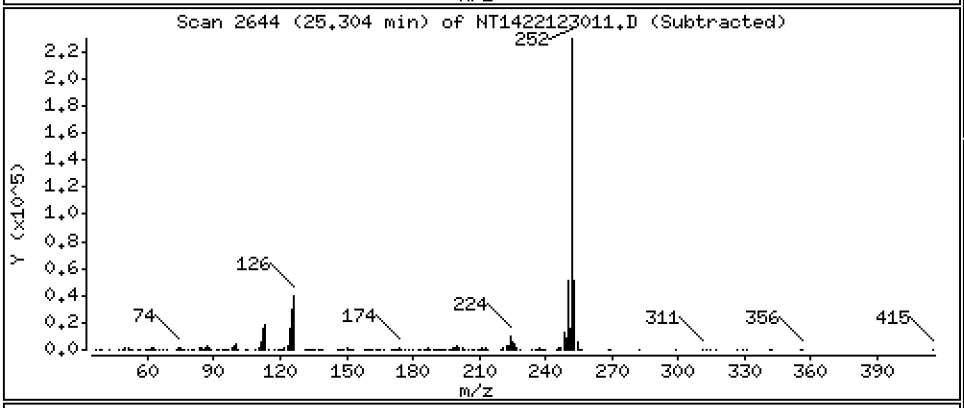
Column diameter: 0.25

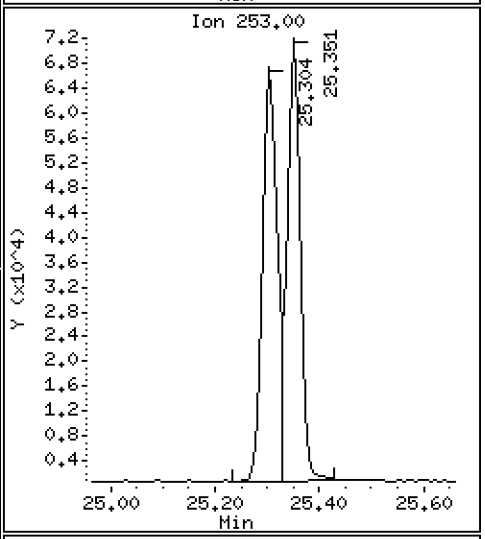
74 Benzo(b)fluoranthene

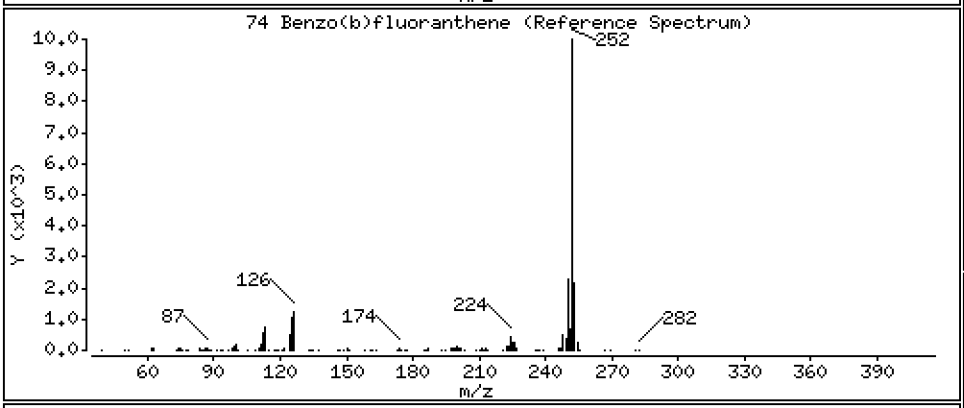
Concentration: 4.893 ug/mL

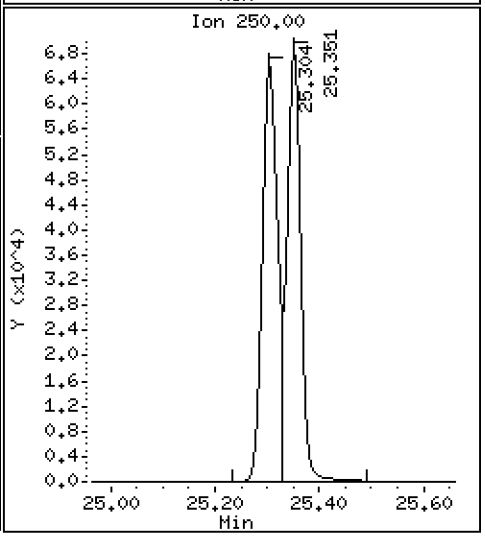


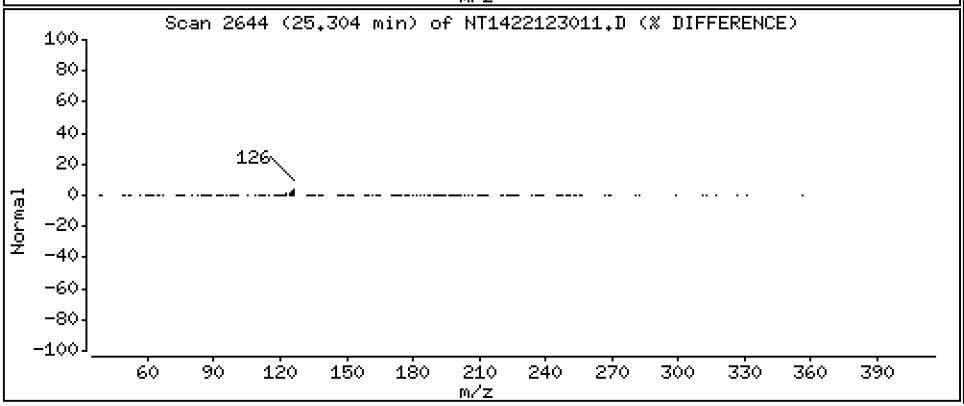












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

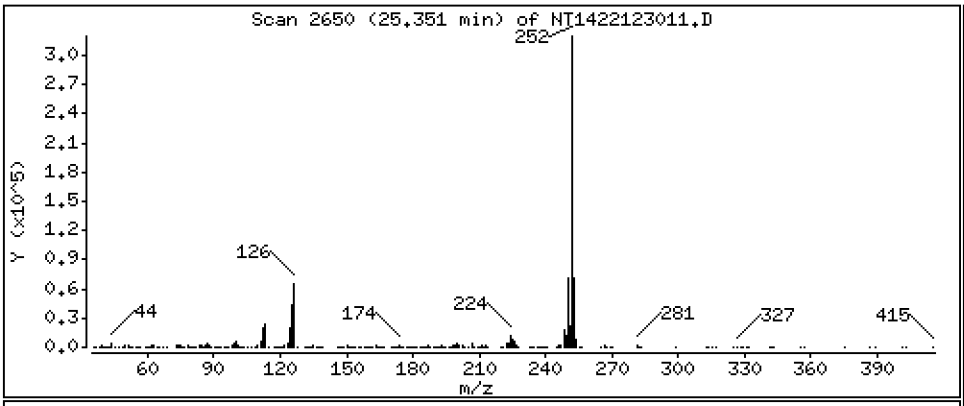
Operator: VTS

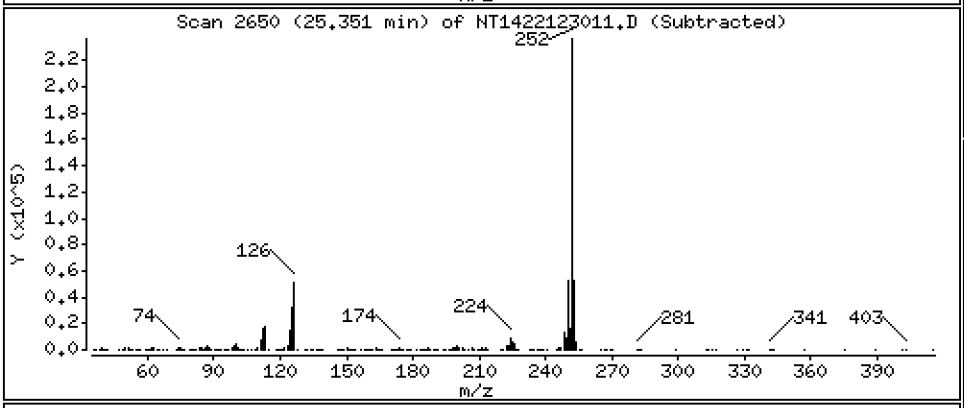
Column phase: ZB-5msi

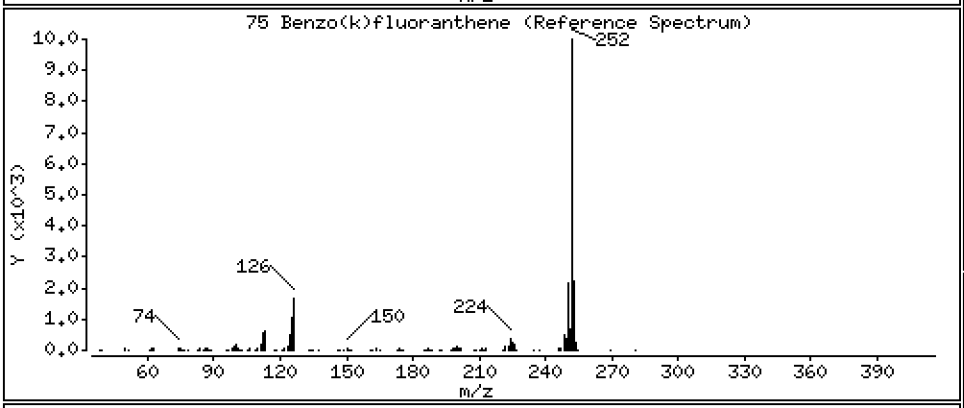
Column diameter: 0.25

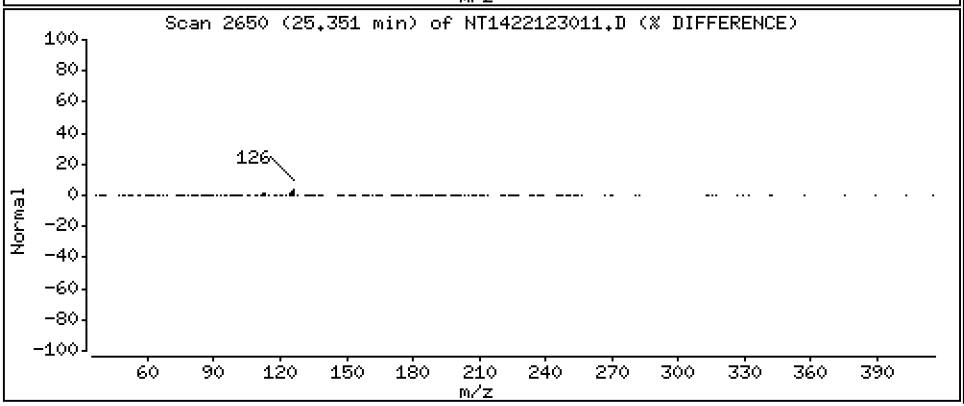
75 Benzo(k)fluoranthene

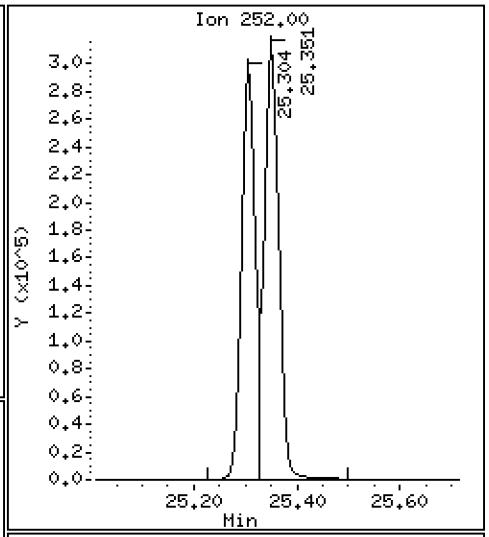
Concentration: 5.093 ug/mL

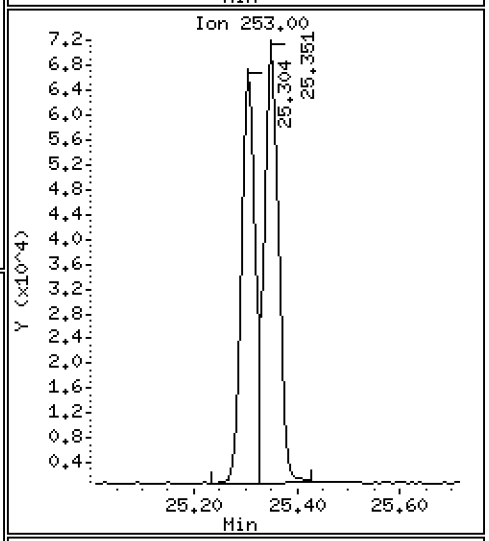


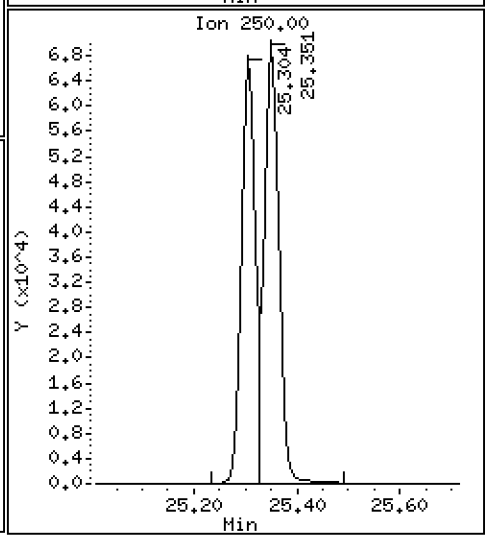












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

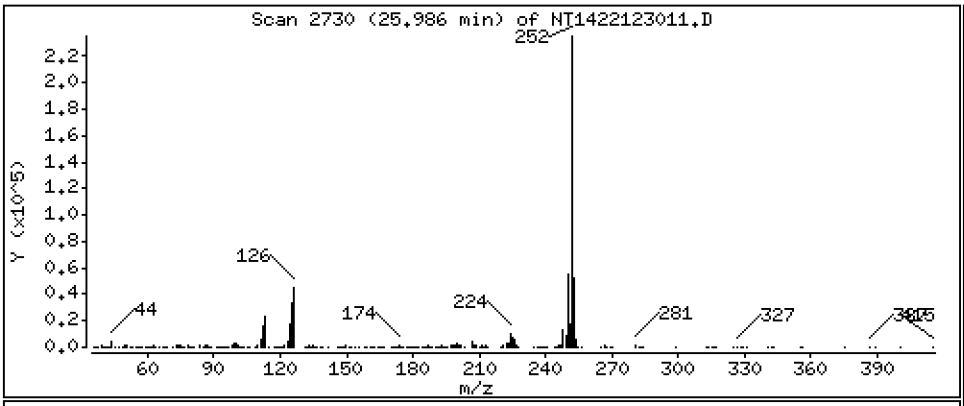
Operator: VTS

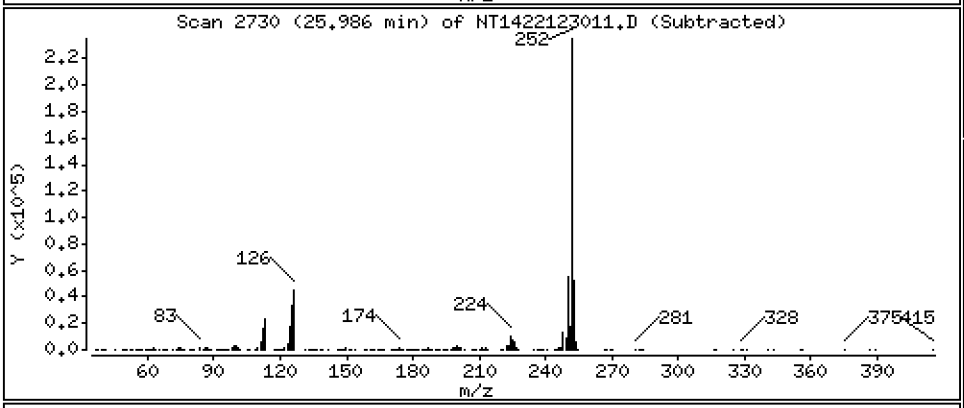
Column phase: ZB-5msi

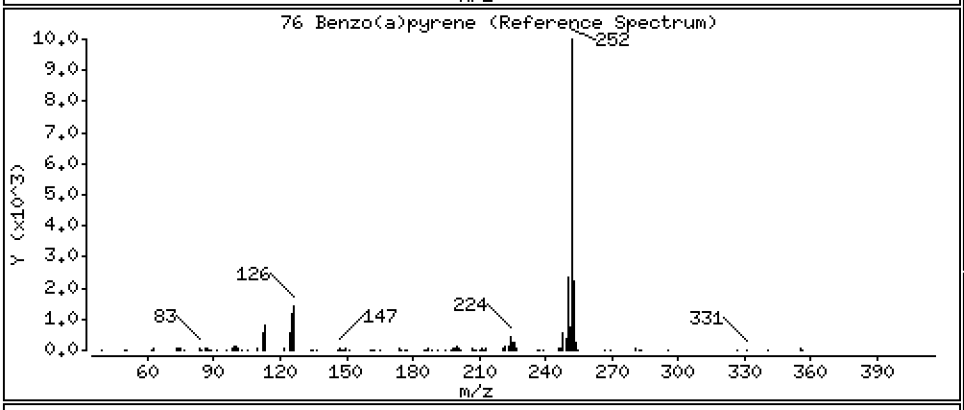
Column diameter: 0.25

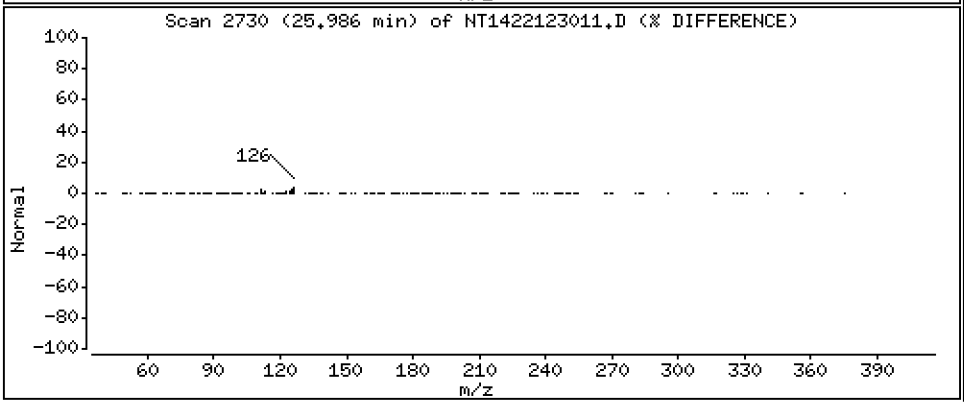
76 Benzo(a)pyrene

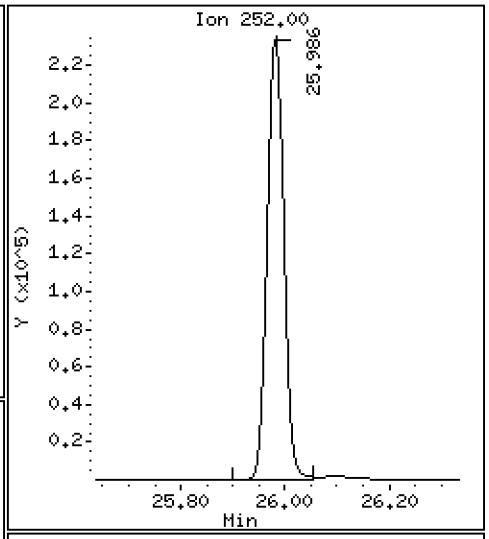
Concentration: 5.092 ug/mL

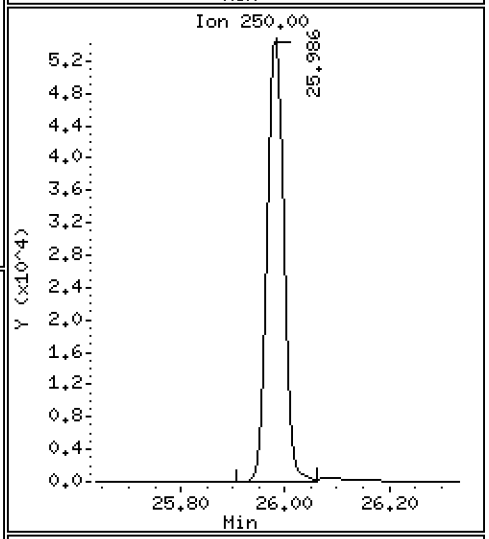


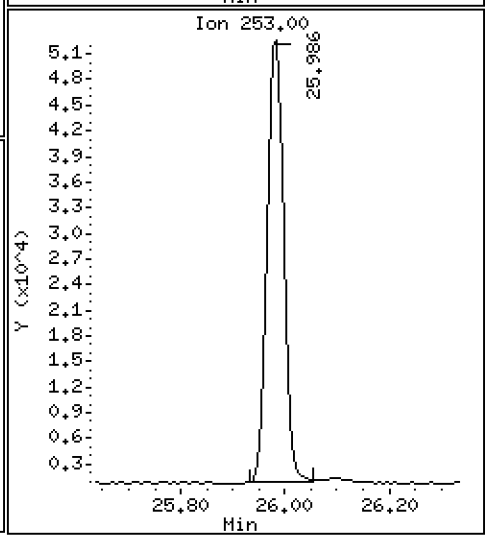












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

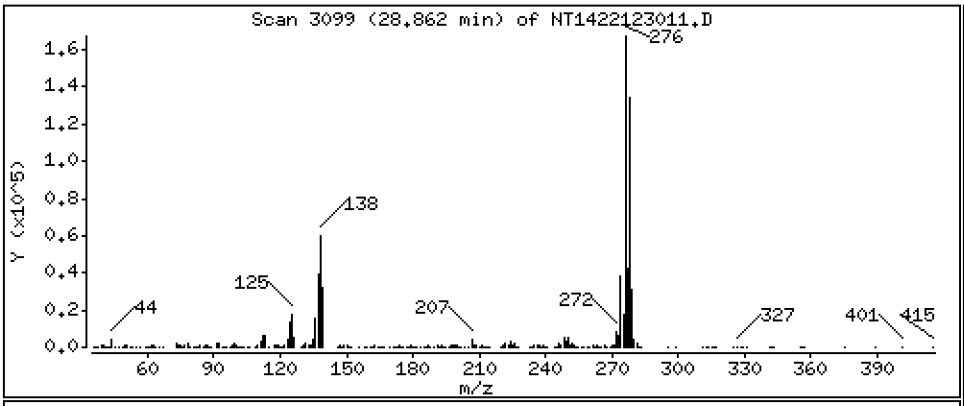
Operator: VTS

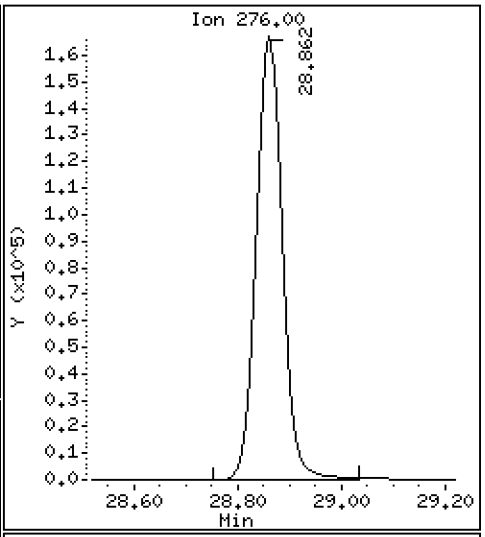
Column phase: ZB-5msi

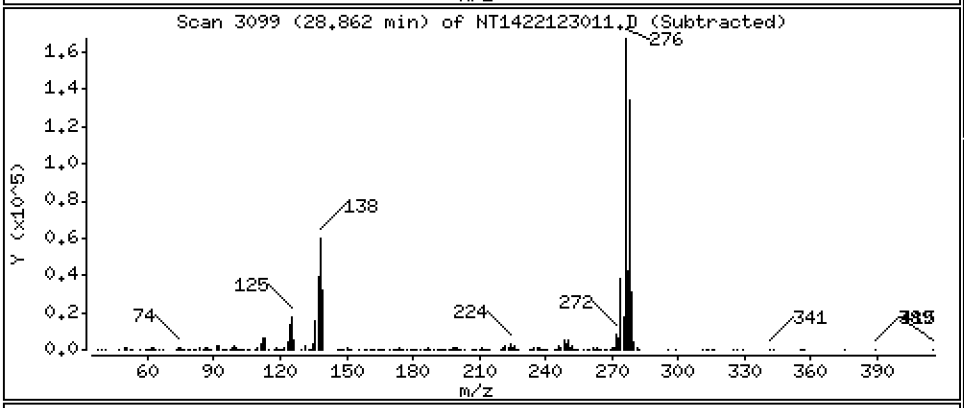
Column diameter: 0.25

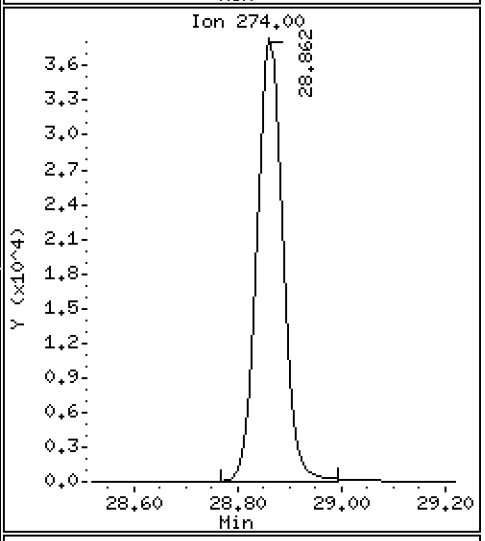
78 Indeno(1,2,3-cd)pyrene

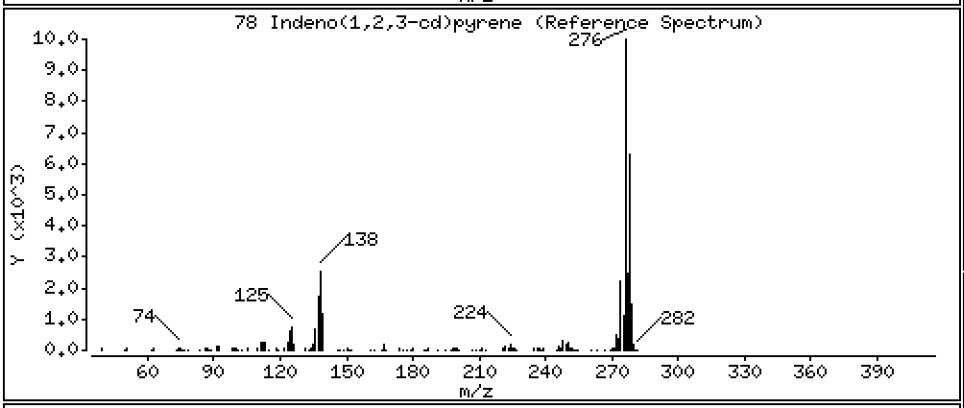
Concentration: 5.128 ug/mL

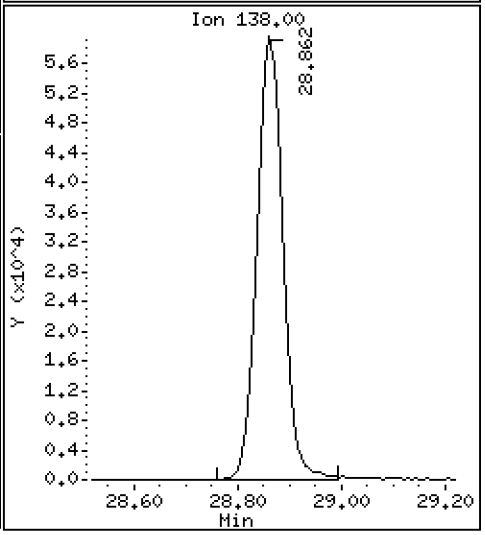


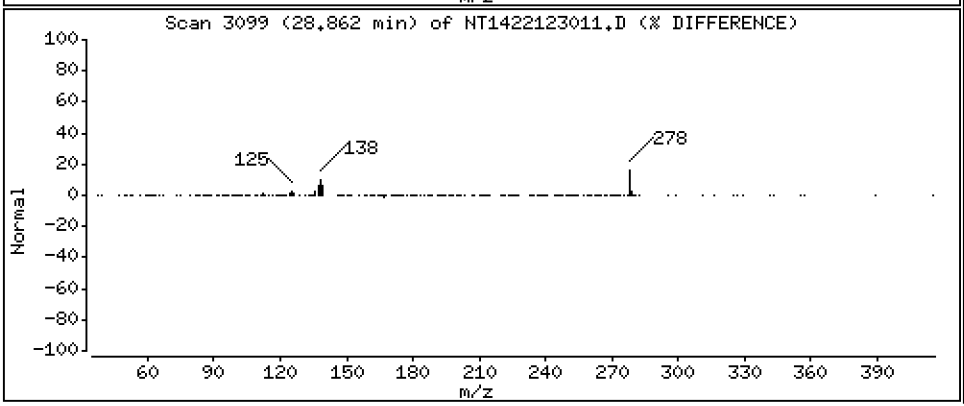












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

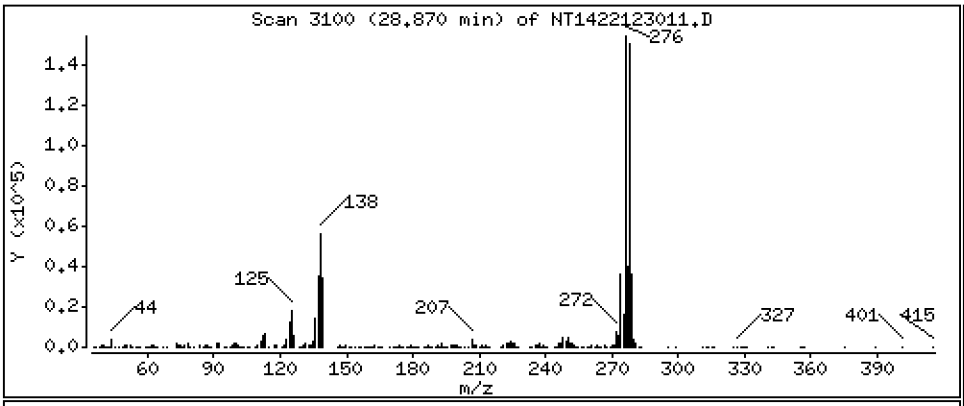
Operator: VTS

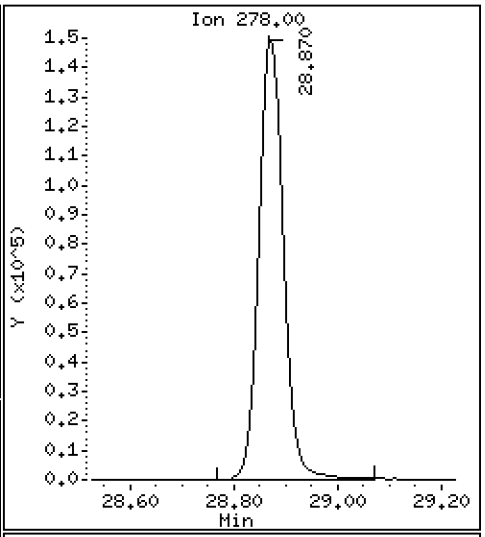
Column phase: ZB-5msi

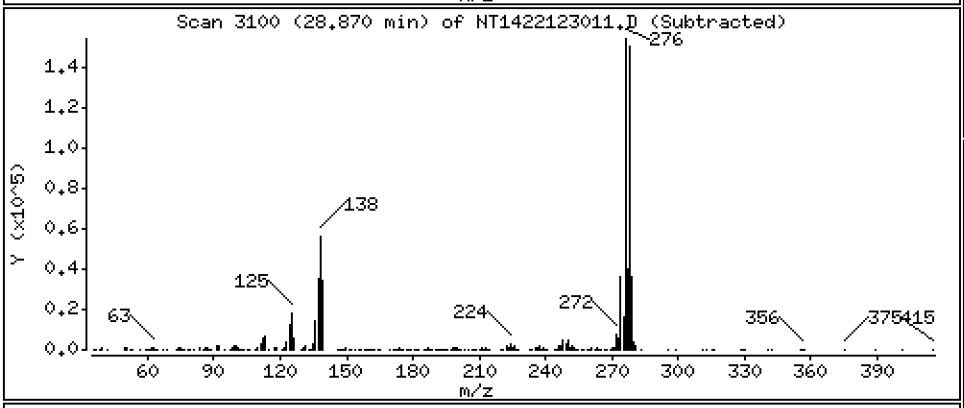
Column diameter: 0.25

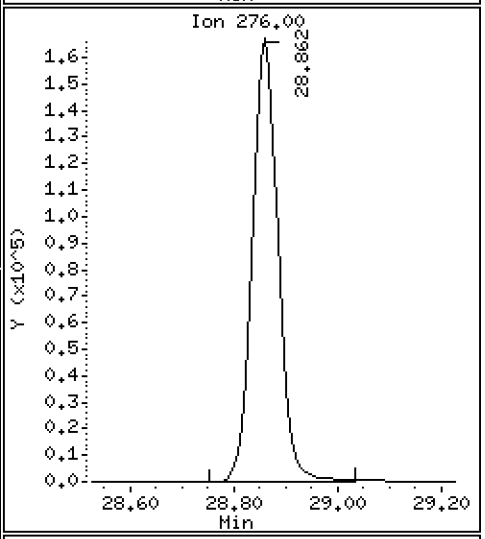
79 Dibenzo(a,h)anthracene

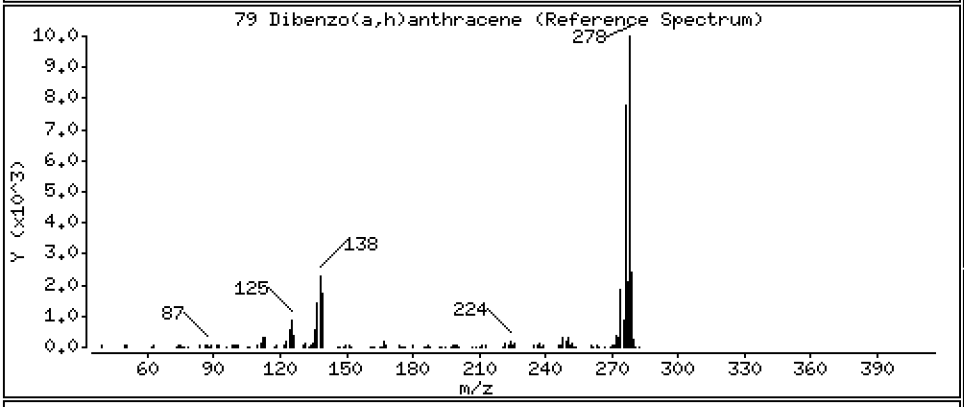
Concentration: 5.087 ug/mL

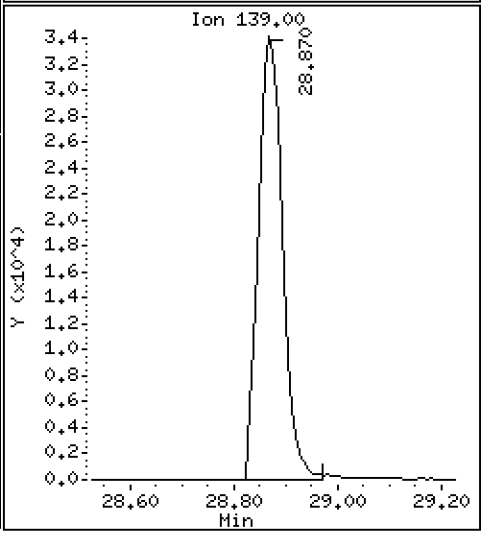


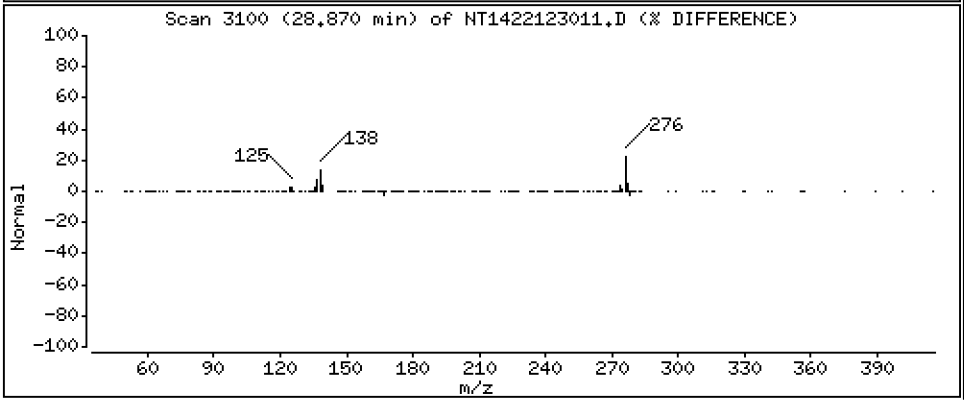












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

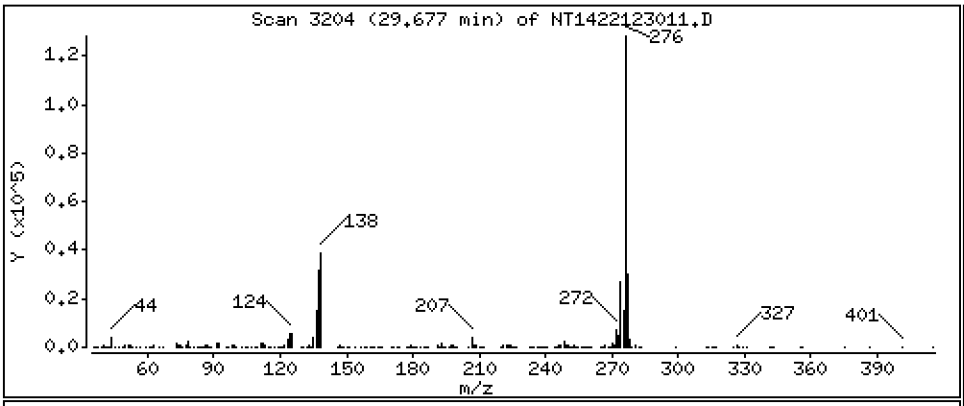
Operator: VTS

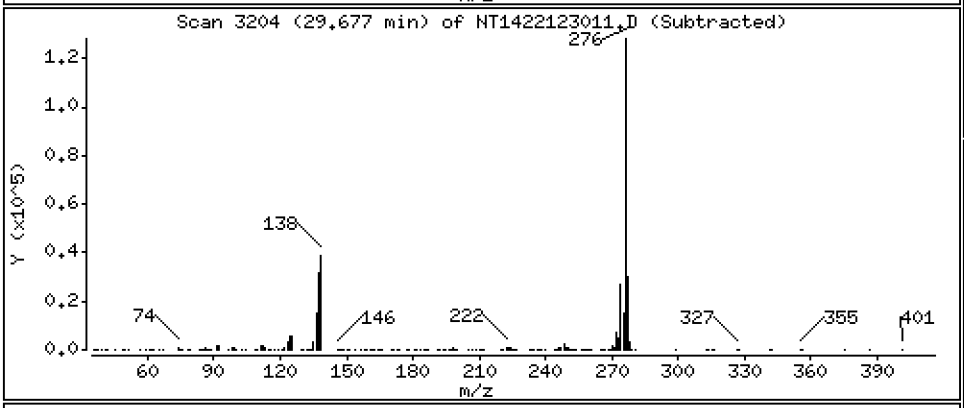
Column phase: ZB-5msi

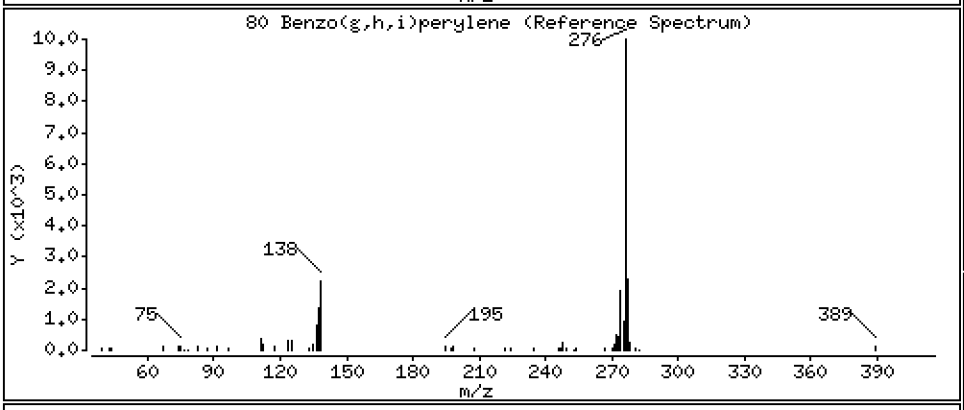
Column diameter: 0.25

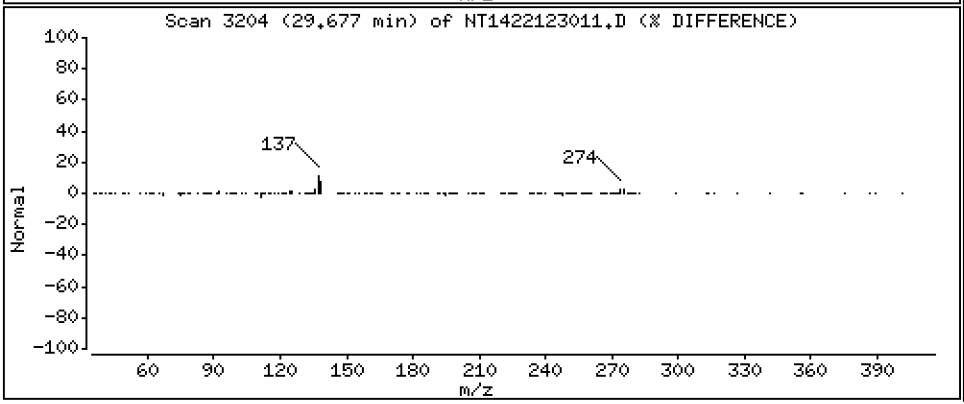
80 Benzo(g,h,i)perylene

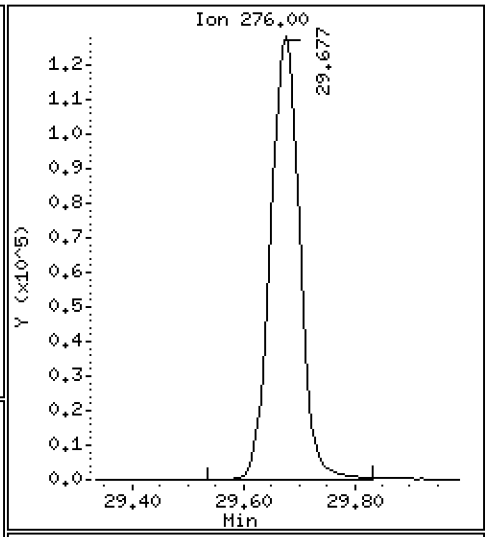
Concentration: 5.037 ug/mL

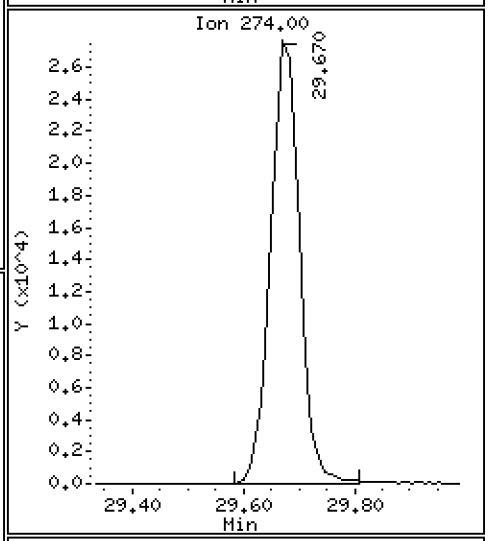


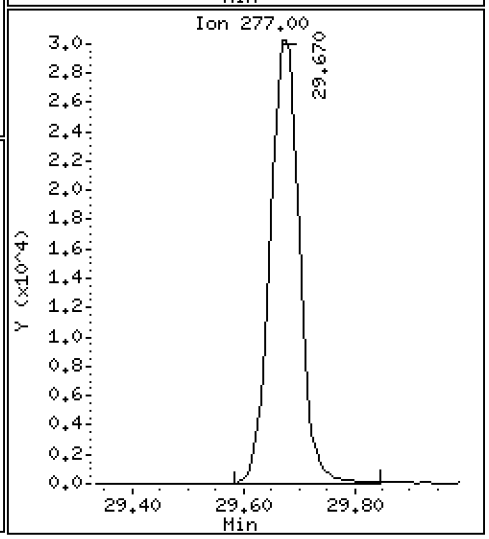












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

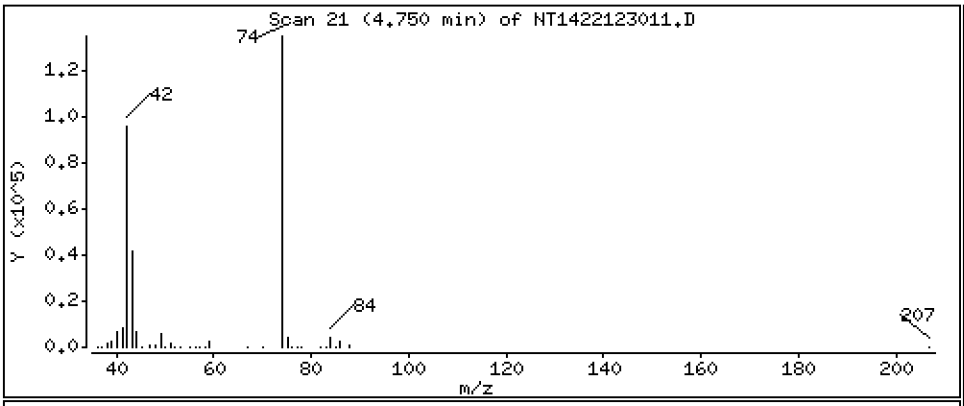
Operator: VTS

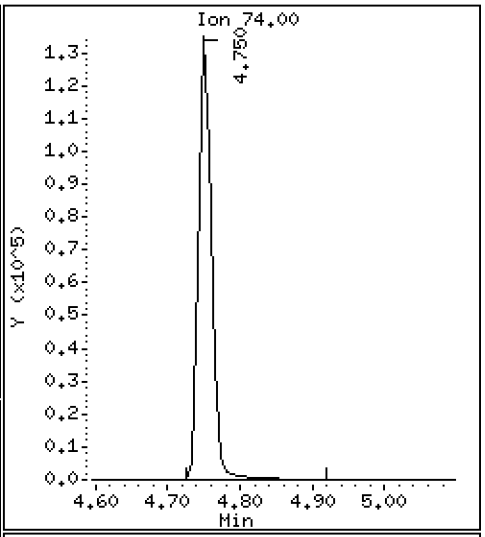
Column phase: ZB-5msi

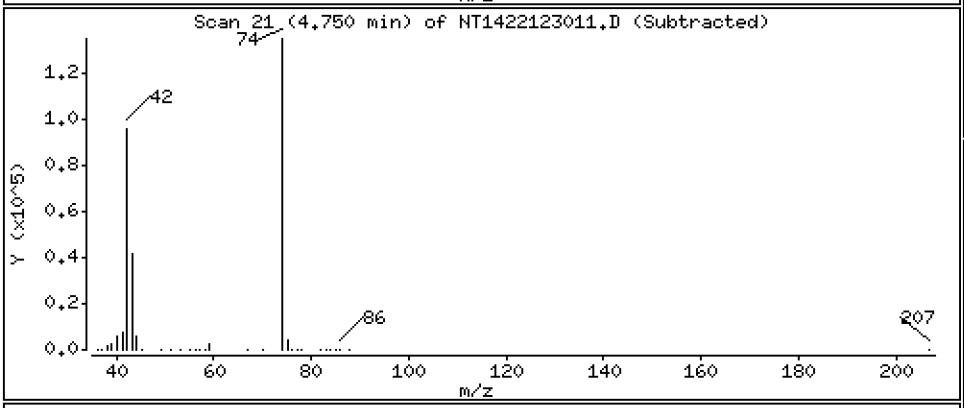
Column diameter: 0.25

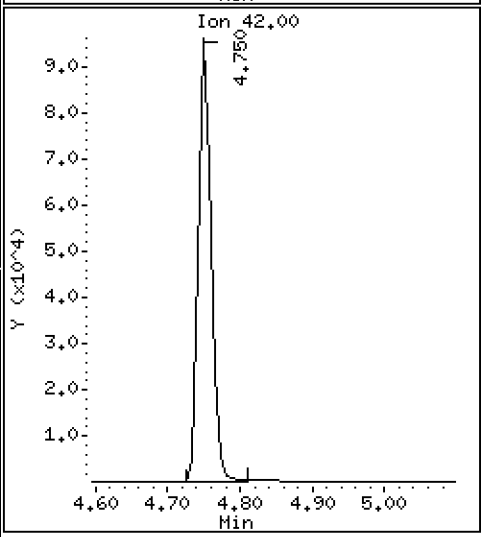
90 N-Nitrosodimethylamine

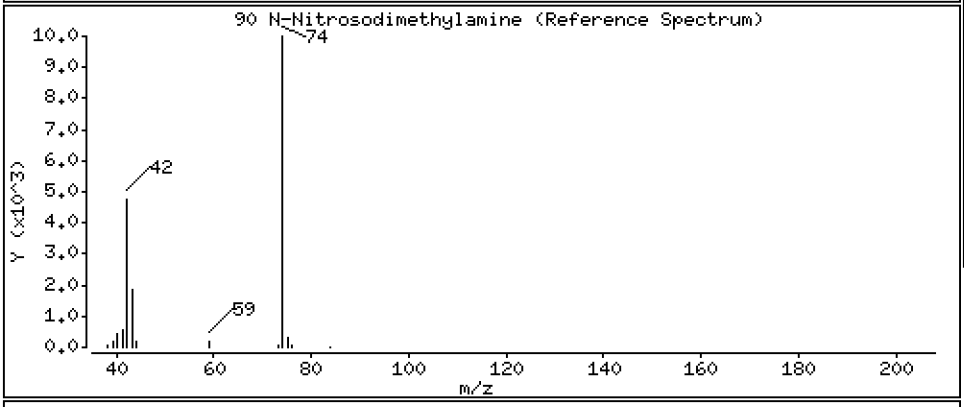
Concentration: 5.154 ug/mL

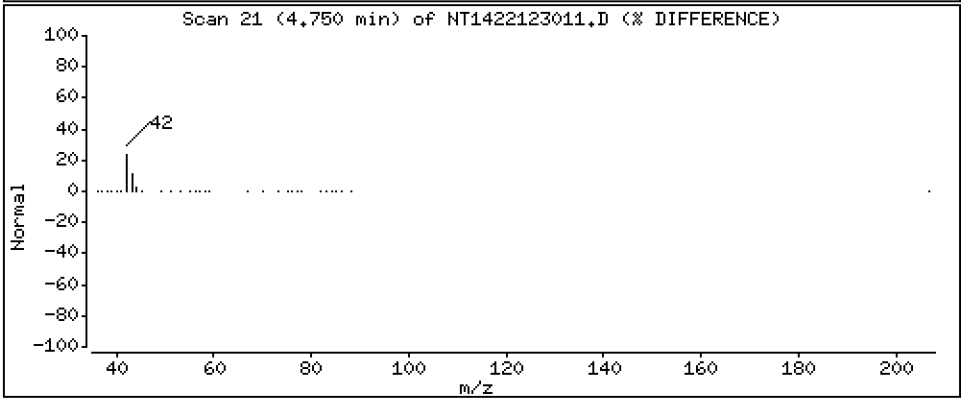












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

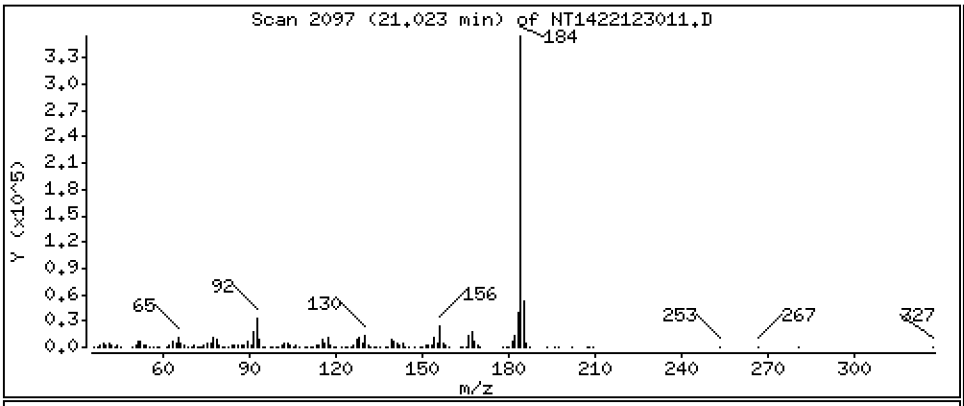
Operator: VTS

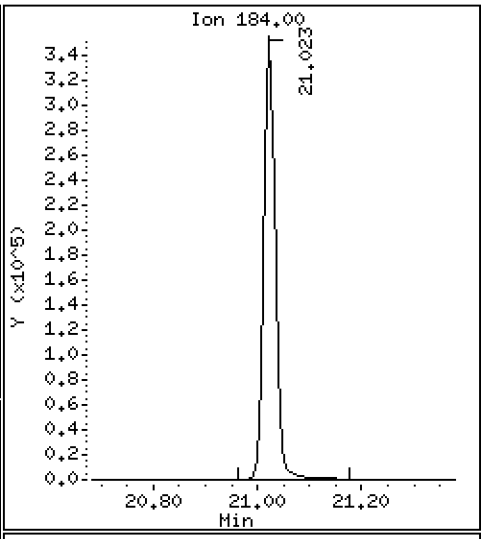
Column phase: ZB-5msi

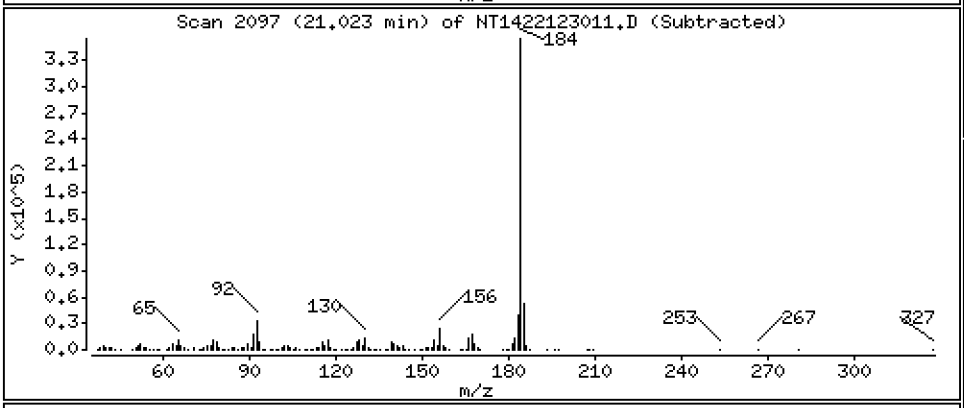
Column diameter: 0.25

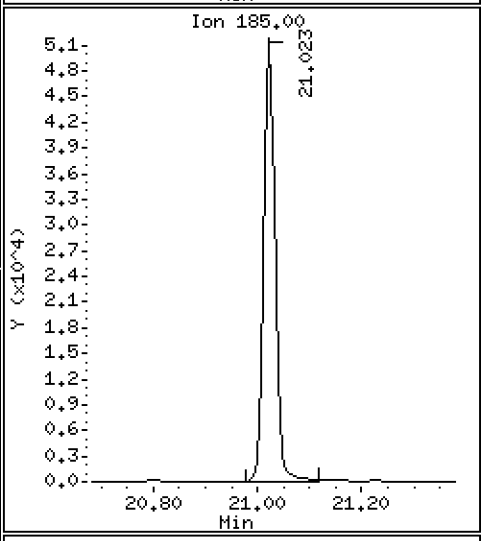
93 Benzidine

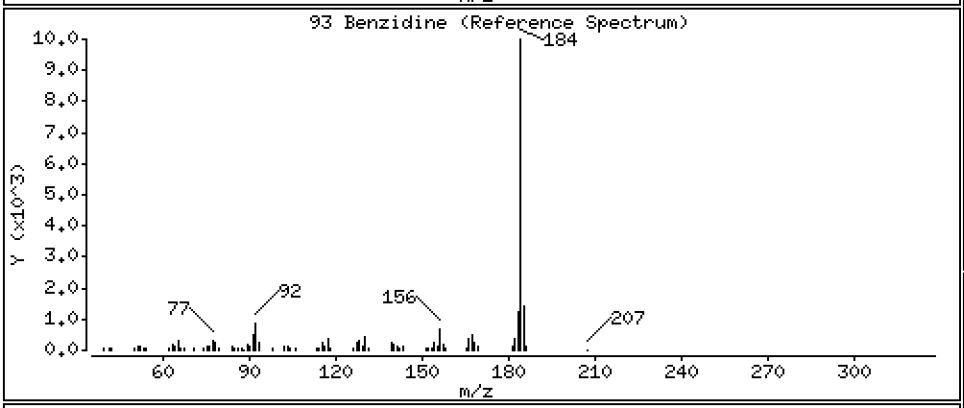
Concentration: 9.704 ug/mL

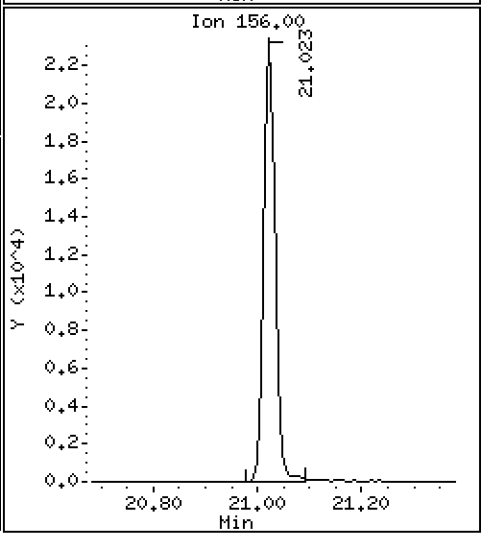


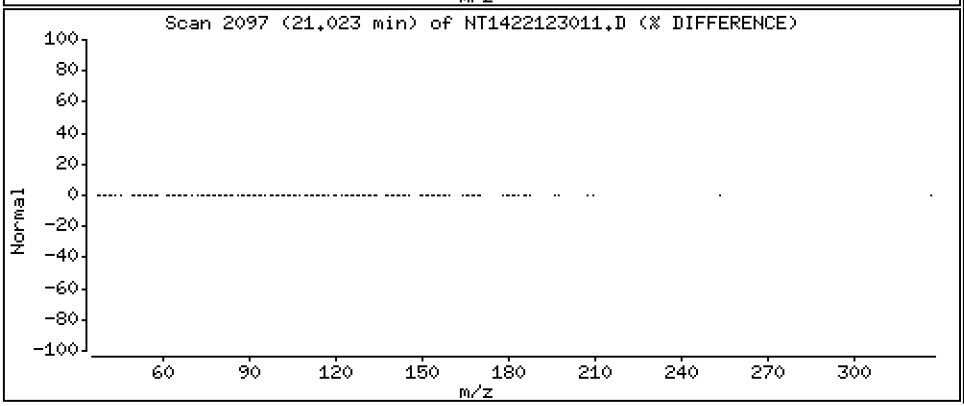












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

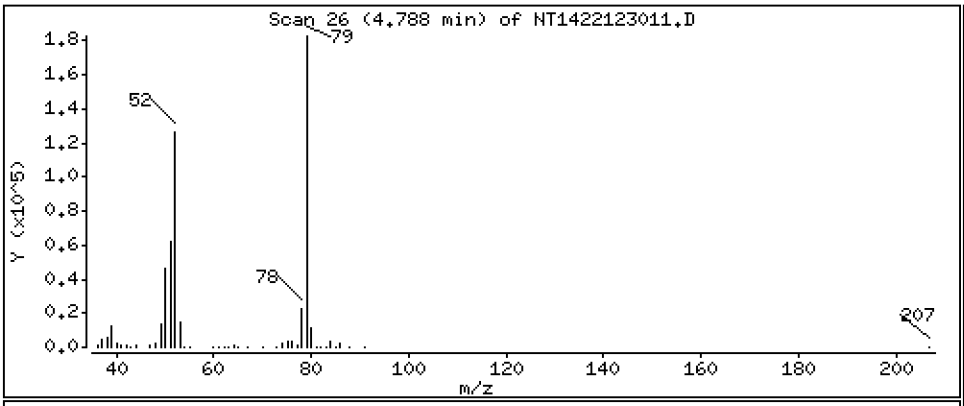
Operator: VTS

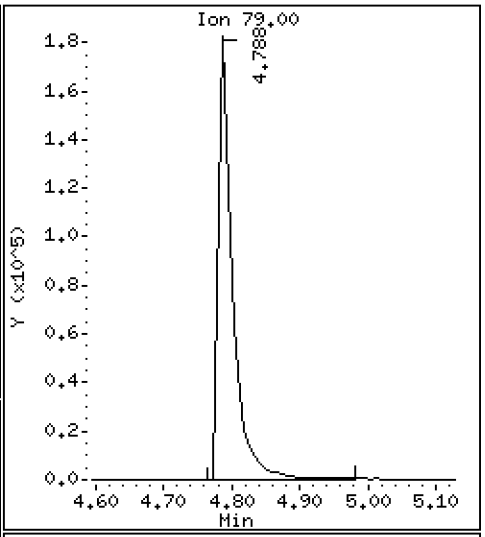
Column phase: ZB-5msi

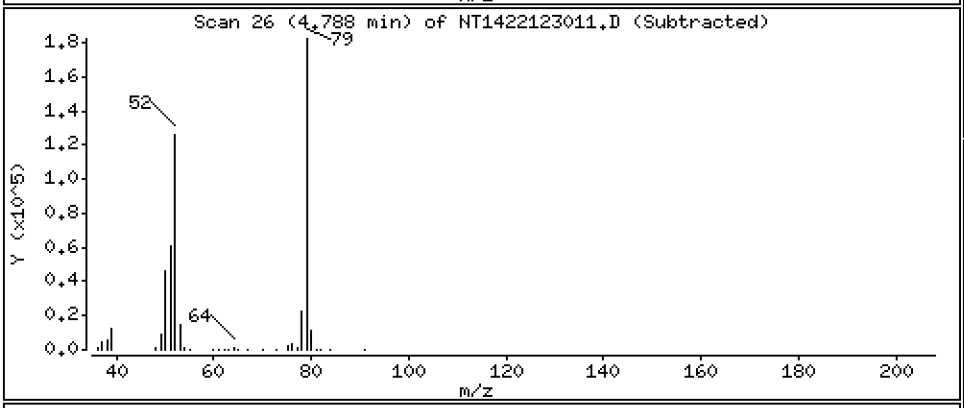
Column diameter: 0.25

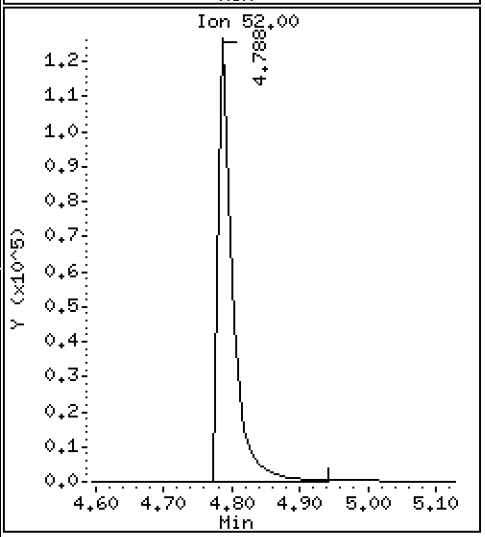
103 Pyridine

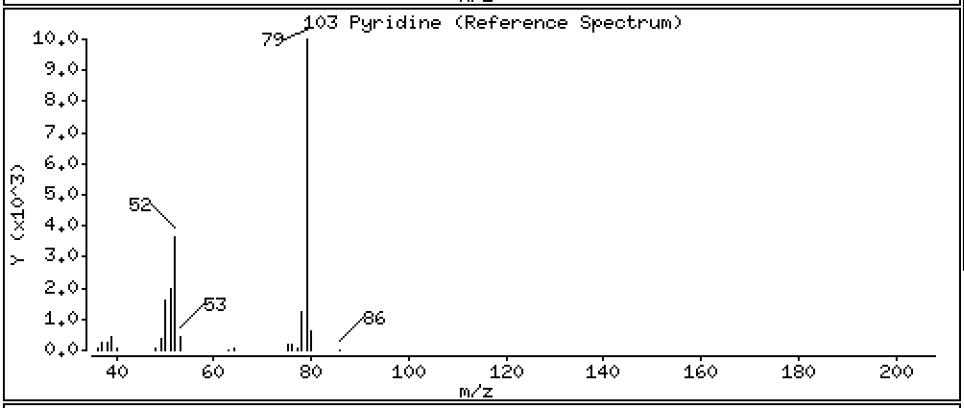
Concentration: 2.681 ug/mL

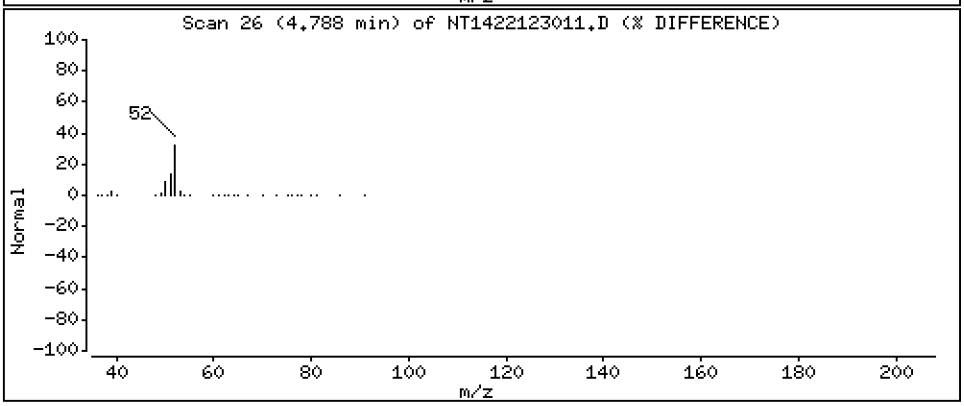












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

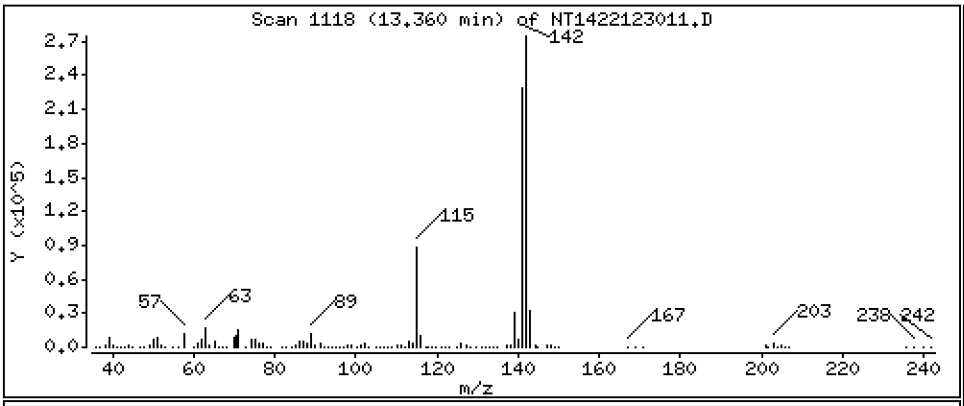
Operator: VTS

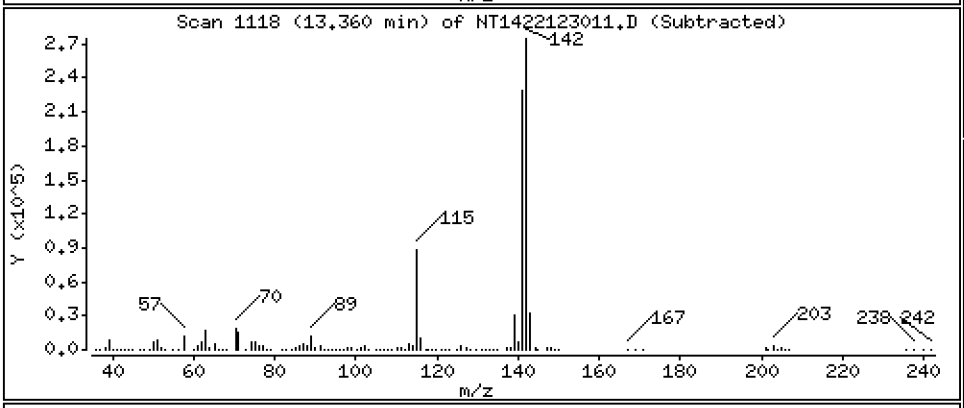
Column phase: ZB-5msi

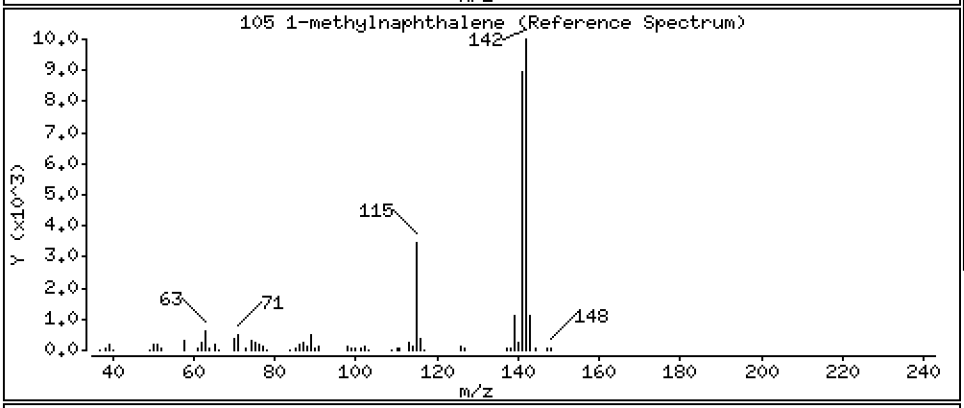
Column diameter: 0.25

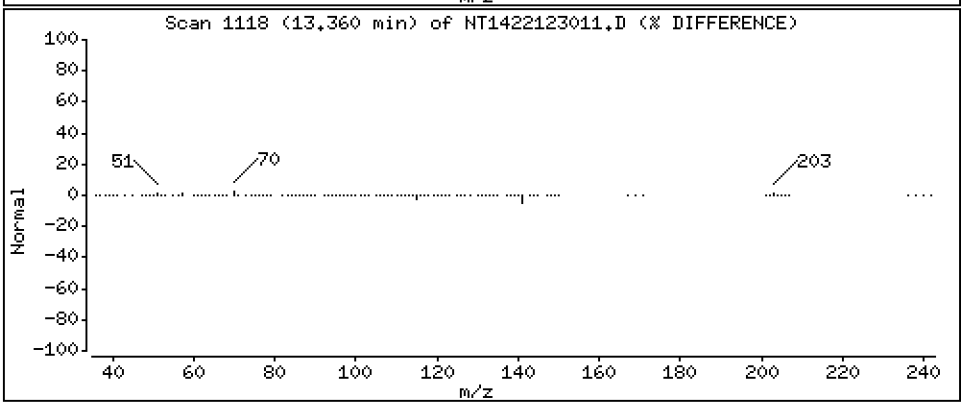
105 1-methylnaphthalene

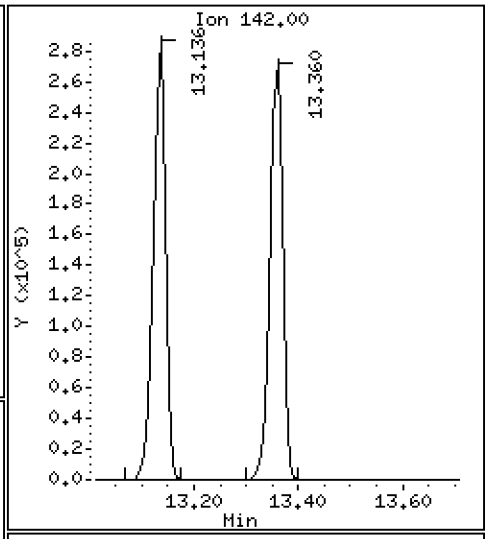
Concentration: 4.671 ug/mL

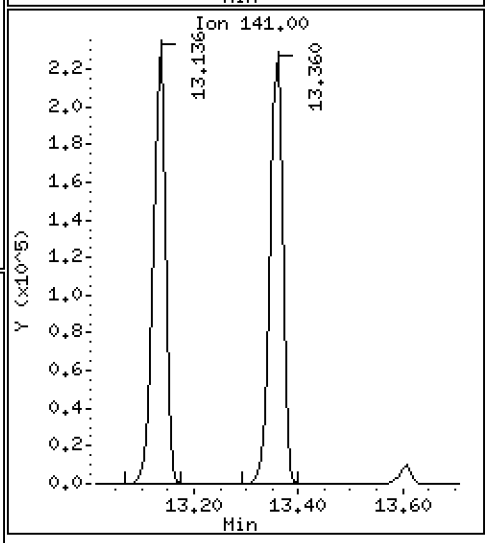












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

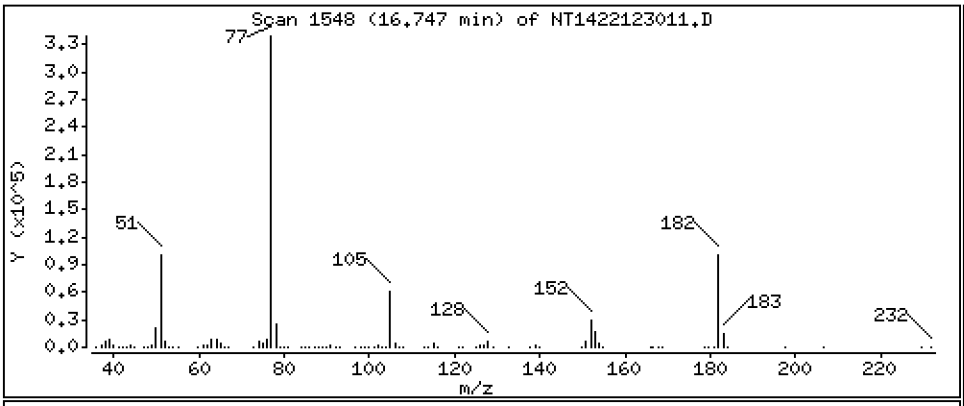
Operator: VTS

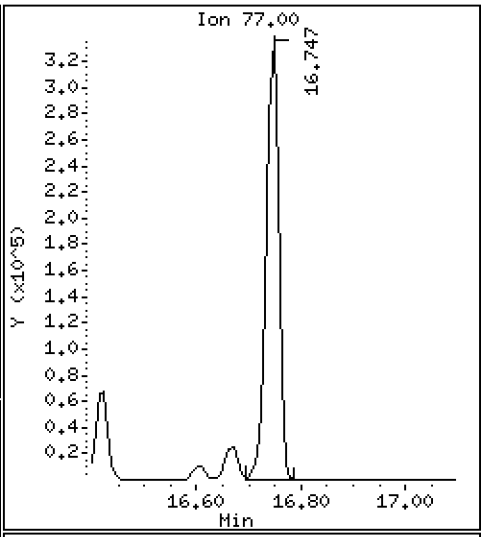
Column phase: ZB-5msi

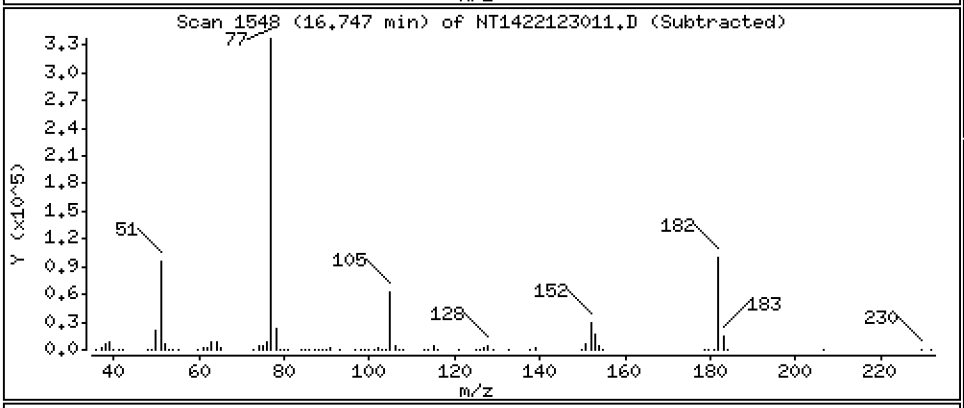
Column diameter: 0.25

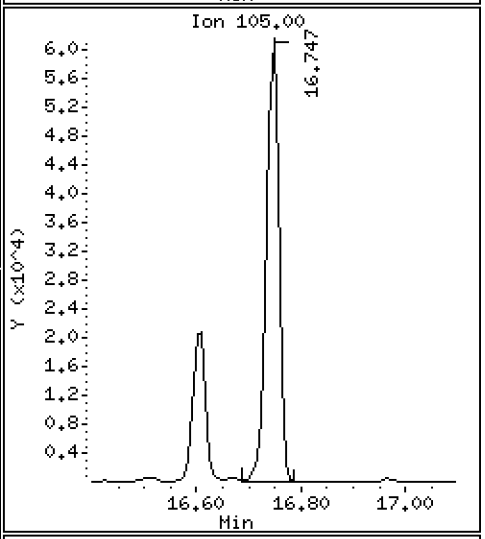
111 Azobenzene (1,2-DP-Hydrazine)

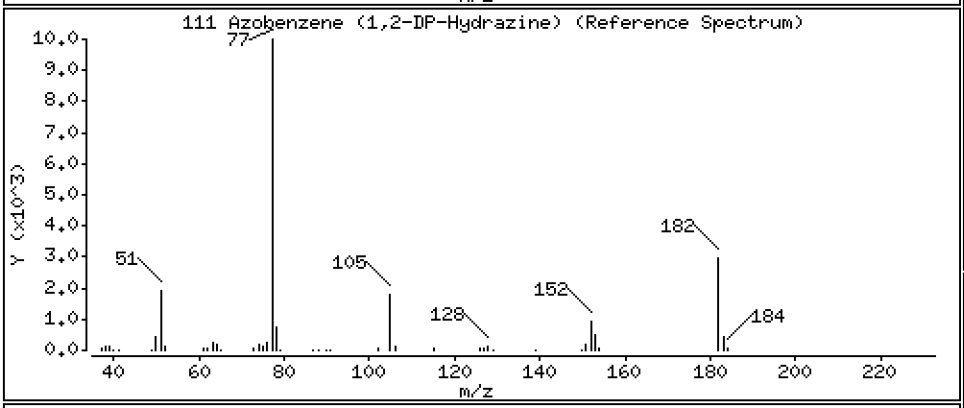
Concentration: 4.893 ug/mL

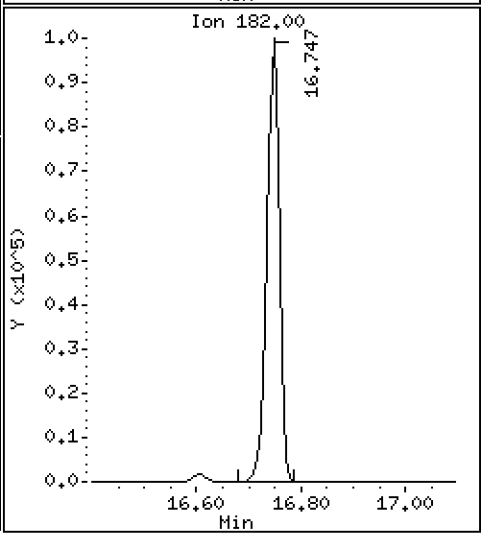


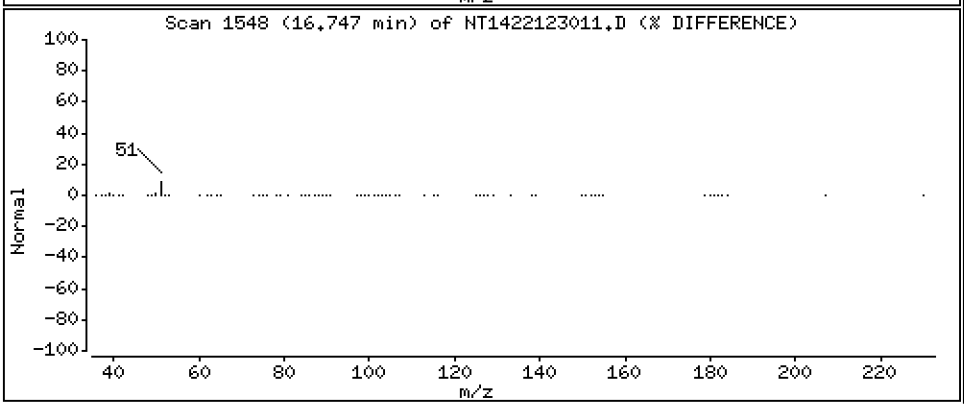












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

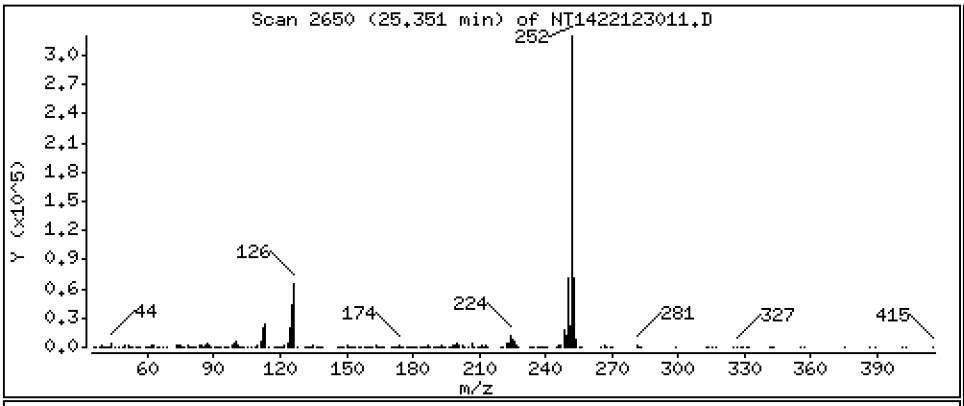
Operator: VTS

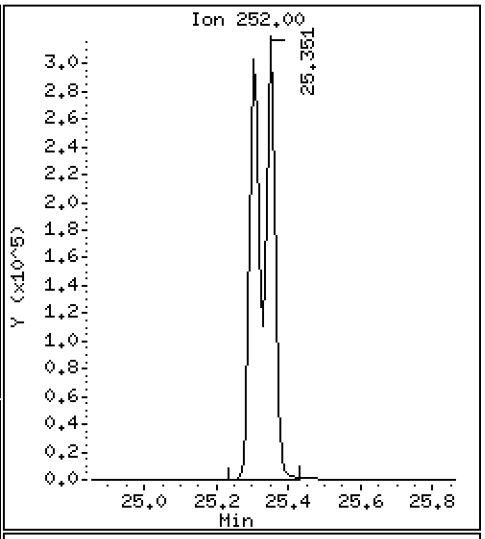
Column phase: ZB-5msi

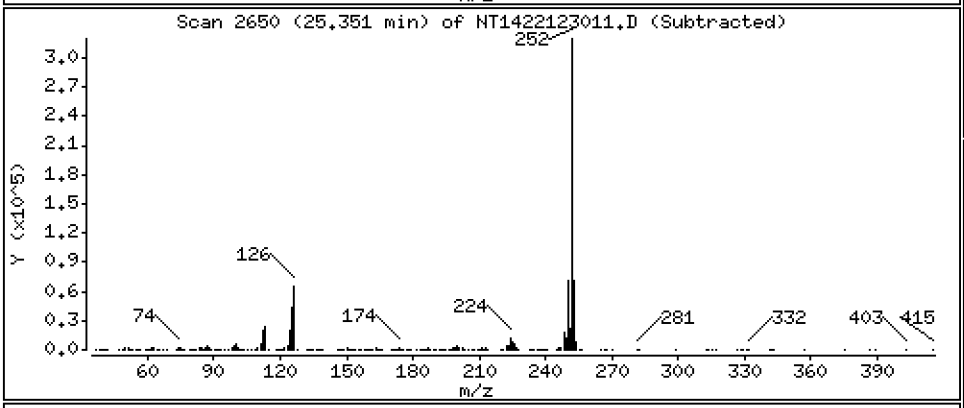
Column diameter: 0.25

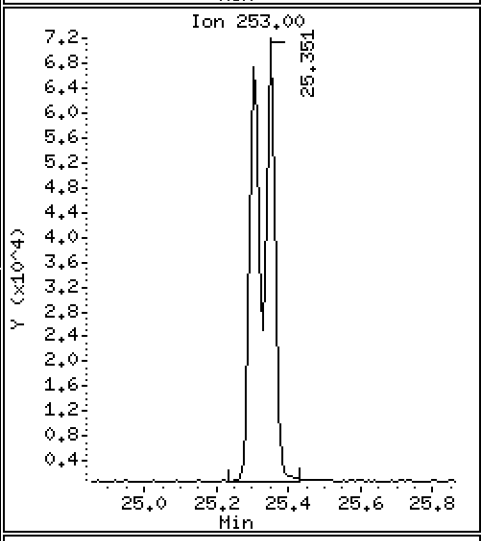
187 Total Benzofluoranthenes

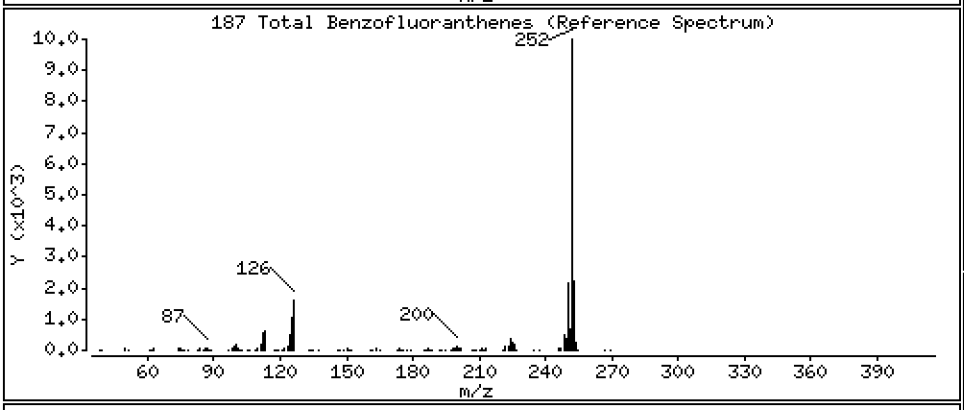
Concentration: 9.972 ug/mL

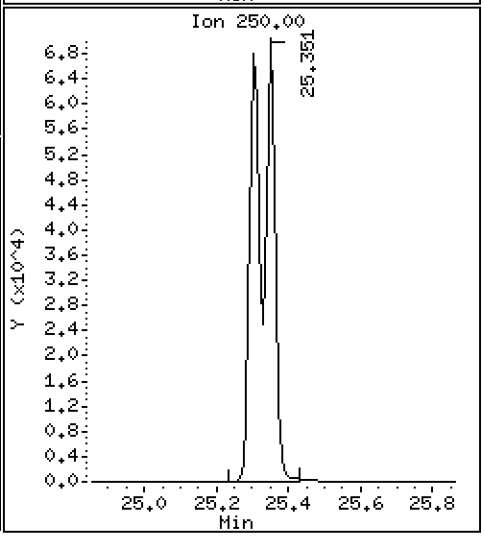


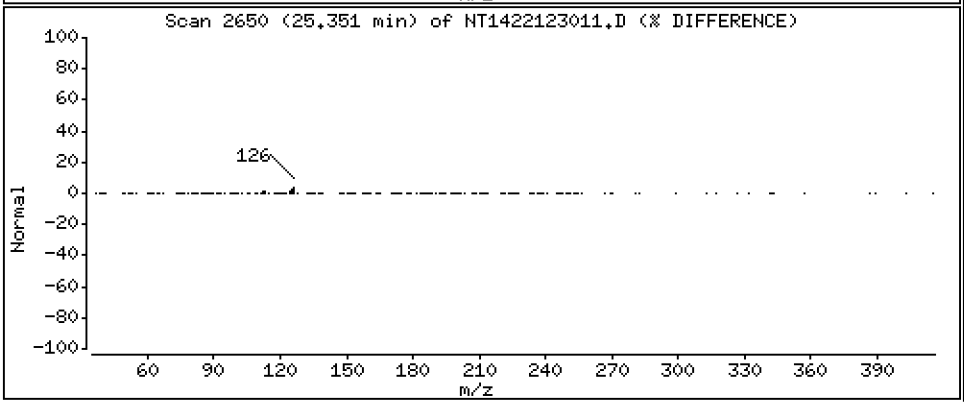












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

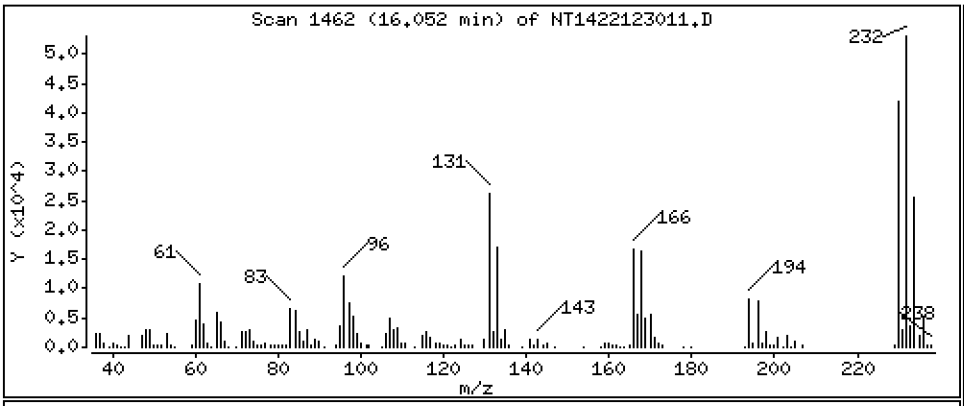
Operator: VTS

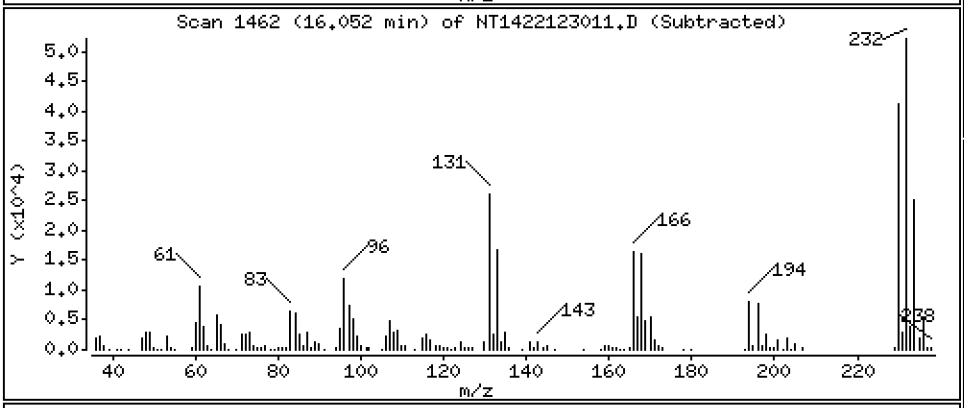
Column phase: ZB-5msi

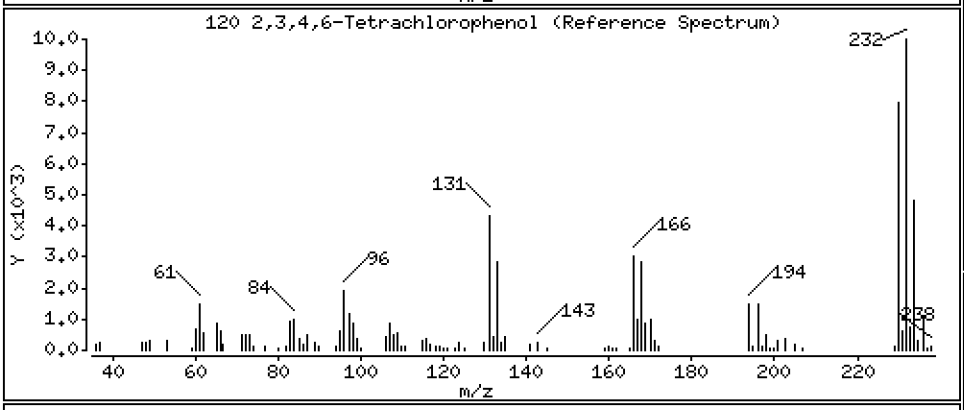
Column diameter: 0.25

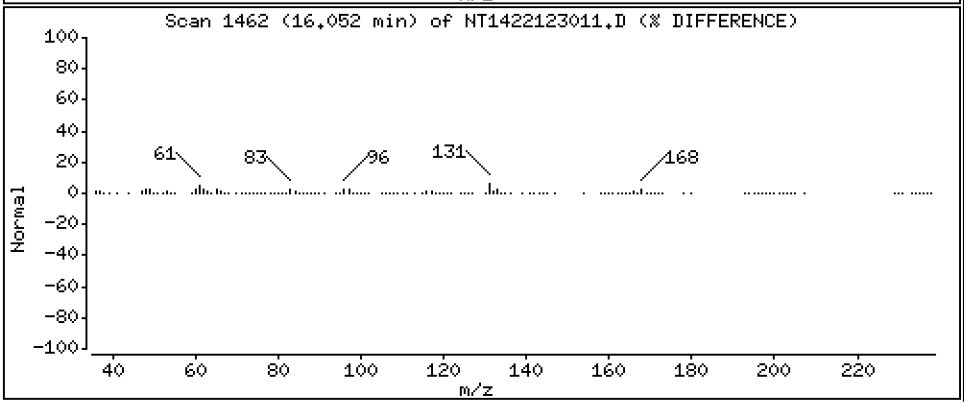
120 2,3,4,6-Tetrachlorophenol

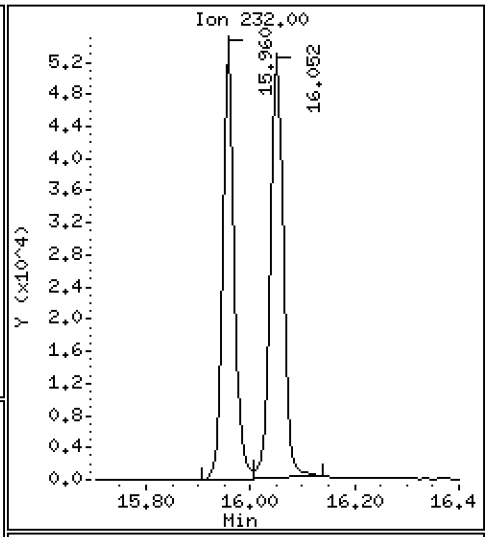
Concentration: 4.079 ug/mL

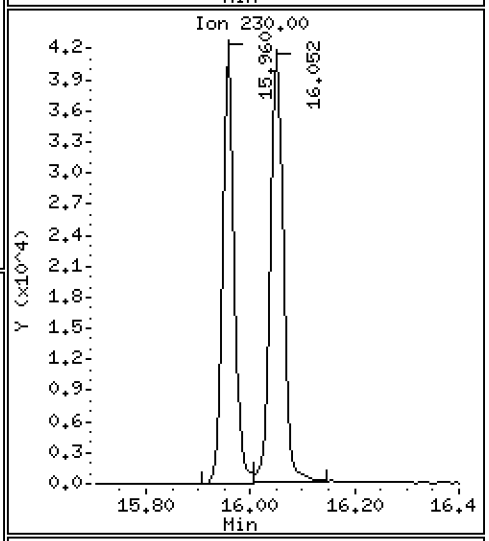


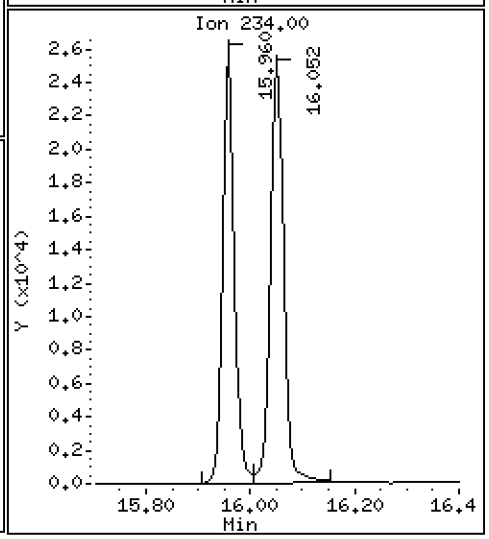












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Lab Smp Id: SKL0355-ICV1
Inj Date : 30-DEC-2022 13:31 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-SCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Meth Date : 04-Jan-2023 08:09 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.935	6.934	(0.755)	340542	7.31681	7.317
$	2 Phenol-d5	99	8.526	8.526	(0.928)	425409	7.39610	7.396
	3 Phenol	94	8.550	8.549	(0.931)	284374	4.35110	4.351
$	5 2-Chlorophenol-d4	132	8.812	8.820	(0.960)	353505	7.31802	7.318
	4 Bis(2-Chloroethyl)ether	93	8.720	8.719	(0.949)	229408	5.09546	5.095
	6 2-Chlorophenol	128	8.843	8.843	(0.963)	236672	4.46115	4.461
	7 1,3-Dichlorobenzene	146	9.122	9.121	(0.993)	267449	4.75416	4.754
*	8 1,4-Dichlorobenzene-d4	152	9.184	9.183	(1.000)	145276	4.00000	
	9 1,4-Dichlorobenzene	146	9.215	9.214	(1.003)	254370	4.77289	4.773
$	10 1,2-Dichlorobenzene-d4	152	9.548	9.548	(1.040)	157368	4.76640	4.766
	12 1,2-Dichlorobenzene	146	9.572	9.571	(1.042)	249154	4.76694	4.767
	11 Benzyl alcohol	108	9.447	9.447	(1.029)	144889	4.97978	4.980
	14 2,2'-oxybis(1-Chloropropane)	121	9.758	9.758	(1.063)	78691	5.19294	5.193
	13 2-Methylphenol	108	9.673	9.672	(1.053)	186498	3.92700	3.927
	17 Hexachloroethane	117	10.177	10.177	(1.108)	96618	4.92918	4.929
	16 N-Nitroso-di-n-propylamine	70	10.014	10.014	(1.090)	148366	5.12841	5.128
	15 4-Methylphenol	108	9.952	9.944	(1.084)	206520	4.12221	4.122
$	18 Nitrobenzene-d5	82	10.278	10.285	(0.879)	222732	4.86182	4.862
	19 Nitrobenzene	77	10.317	10.316	(0.883)	222014	4.87964	4.880
	20 Isophorone	82	10.767	10.774	(0.921)	402784	6.94605	6.946
	21 2-Nitrophenol	139	10.953	10.953	(0.937)	131718	4.55573	4.556
	22 2,4-Dimethylphenol	107	11.000	10.999	(0.941)	173928	3.66274	3.663
	23 Bis(2-Chloroethoxy)methane	93	11.201	11.201	(0.958)	255794	5.67041	5.670
	24 Benzoic acid	105	11.155	11.201	(0.954)	187105	6.38476	6.385
	25 2,4-Dichlorophenol	162	11.403	11.410	(0.976)	175656	4.38838	4.388
	26 1,2,4-Trichlorobenzene	180	11.604	11.604	(0.993)	197978	4.57428	4.574
*	27 Naphthalene-d8	136	11.689	11.688	(1.000)	542519	4.00000	
	28 Naphthalene	128	11.727	11.735	(1.003)	642406	4.81161	4.812
	29 4-Chloroaniline	127	11.851	11.858	(1.014)	211901	3.84856	3.849
	30 Hexachlorobutadiene	225	12.098	12.098	(1.035)	103565	4.82279	4.823
	31 4-Chloro-3-methylphenol	107	12.810	12.818	(1.096)	170811	4.52201	4.522
	32 2-Methylnaphthalene	142	13.135	13.135	(1.124)	452041	4.61574	4.616
	33 Hexachlorocyclopentadiene	237	13.607	13.607	(0.888)	112264	5.08058	5.081

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
34	2,4,6-Trichlorophenol	196	13.754	13.754	(0.897)	107518	4.40679	4.407
35	2,4,5-Trichlorophenol	196	13.824	13.824	(0.902)	120450	4.27752	4.278
$ 36	2-Fluorobiphenyl	172	13.917	13.916	(0.908)	473396	4.81670	4.817
37	2-Chloronaphthalene	162	14.134	14.133	(0.922)	397460	4.75373	4.754
38	2-Nitroaniline	65	14.381	14.389	(0.938)	110847	5.04270	5.043
39	Dimethylphthalate	163	14.815	14.822	(0.967)	414043	5.02258	5.023
40	Acenaphthylene	152	15.008	15.008	(0.979)	637390	4.99964	5.000
41	2,6-Dinitrotoluene	165	14.954	14.954	(0.976)	95155	5.11473	5.115
* 42	Acenaphthene-d10	164	15.325	15.325	(1.000)	292314	4.00000	
43	3-Nitroaniline	138	15.233	15.240	(0.994)	115042	5.08768	5.088
44	Acenaphthene	153	15.387	15.394	(1.004)	388683	4.91555	4.916
45	2,4-Dinitrophenol	184	15.449	15.456	(1.008)	32313	2.03614	2.036
46	Dibenzofuran	168	15.720	15.719	(1.026)	558398	4.70917	4.709
47	4-Nitrophenol	109	15.542	15.549	(1.014)	44501	4.07655	4.077
48	2,4-Dinitrotoluene	165	15.766	15.765	(1.029)	126494	4.95564	4.956
50	Diethylphthalate	149	16.276	16.283	(1.062)	599841	5.35338	5.353
49	Fluorene	166	16.431	16.438	(1.072)	659773	5.23034	5.230
51	4-Chlorophenyl-phenylether	204	16.423	16.423	(1.072)	314576	5.09376	5.094
52	4-Nitroaniline	138	16.508	16.515	(1.077)	130156	4.73349	4.733
53	4,6-Dinitro-2-methylphenol	198	16.608	16.615	(0.904)	82579	4.08155	4.082
54	N-Nitrosodiphenylamine	169	16.670	16.669	(0.907)	391689	4.77466	4.775
$ 55	2,4,6-Tribromophenol	330	16.963	16.970	(1.107)	103080	7.23936	7.239
56	4-Bromophenyl-phenylether	248	17.425	17.433	(0.949)	153403	4.93837	4.938
57	Hexachlorobenzene	284	17.750	17.749	(0.966)	155193	4.55261	4.553
58	Pentachlorophenol	266	18.098	18.106	(0.985)	57071	3.79567	3.796
* 59	Phenanthrene-d10	188	18.369	18.376	(1.000)	478070	4.00000	
60	Phenanthrene	178	18.423	18.423	(1.003)	594211	4.76715	4.767
61	Anthracene	178	18.516	18.516	(1.008)	520344	4.37286	4.373
62	Carbazole	167	18.833	18.841	(1.025)	531516	4.62047	4.620
63	Di-n-butylphthalate	149	19.630	19.630	(1.069)	666827	4.93141	4.931
64	Fluoranthene	202	20.798	20.806	(0.888)	676060	5.09000	5.090
65	Pyrene	202	21.224	21.231	(0.906)	701324	5.02201	5.022
$ 66	Terphenyl-d14	244	21.503	21.510	(0.918)	476897	4.81614	4.816
67	Butylbenzylphthalate	149	22.424	22.423	(0.958)	268323	5.00461	5.005
68	Benzo(a)anthracene	228	23.384	23.384	(0.999)	611047	4.88991	4.890
* 69	Chrysene-d12	240	23.415	23.415	(1.000)	412507	4.00000	
70	3,3'-Dichlorobenzidine	252	23.330	23.329	(0.996)	352190	9.20673	9.207
71	Chrysene	228	23.454	23.461	(1.002)	562245	4.76333	4.763
72	bis(2-Ethylhexyl)phthalate	149	23.446	23.446	(0.959)	386843	5.89917	5.899
* 134	Di-n-octylphthalate-d4	153	24.437	24.437	(1.000)	590464	4.00000	
73	Di-n-octylphthalate	149	24.445	24.452	(1.000)	720505	5.08341	5.083
74	Benzo(b)fluoranthene	252	25.304	25.311	(0.969)	583736	4.89261	4.893
75	Benzo(k)fluoranthene	252	25.350	25.358	(0.971)	618510	5.09341	5.093
76	Benzo(a)pyrene	252	25.985	25.985	(0.996)	505003	5.09168	5.092
* 77	Perylene-d12	264	26.102	26.101	(1.000)	379639	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.861	28.869	(1.106)	578206	5.12831	5.128
79	Dibenzo(a,h)anthracene	278	28.869	28.876	(1.106)	487403	5.08716	5.087
80	Benzo(g,h,i)perylene	276	29.677	29.684	(1.137)	475788	5.03737	5.037
90	N-Nitrosodimethylamine	74	4.749	4.749	(0.517)	165220	5.15442	5.154
91	Aniline	93	Compound Not Detected.					
93	Benzidine	184	21.023	21.030	(0.898)	511157	9.70402	9.704
103	Pyridine	79	4.788	4.780	(0.521)	273100	2.68129	2.681
105	1-methylnaphthalene	142	13.360	13.359	(1.143)	439557	4.67125	4.671
111	Azobenzene (1,2-DP-Hydrazine)	77	16.747	16.746	(1.093)	531158	4.89310	4.893

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.350	25.358	(0.971)	1150223	9.97185	9.972
120 2,3,4,6-Tetrachlorophenol	232	16.052	16.051	(1.047)	86828	4.07937	4.079

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123011.D
Lab Smp Id: SKL0355-ICV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Misc Info:

Calibration Date: 30-DEC-2022
Calibration Time: 08:06
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	151013	75507	302026	145276	-3.80
27 Naphthalene-d8	553510	276755	1107020	542519	-1.99
42 Acenaphthene-d10	305411	152706	610822	292314	-4.29
59 Phenanthrene-d10	491708	245854	983416	478070	-2.77
69 Chrysene-d12	424740	212370	849480	412507	-2.88
134 Di-n-octylphthala	684951	342476	1369902	590464	-13.79
77 Perylene-d12	395150	197575	790300	379639	-3.93

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.18	8.68	9.68	9.18	0.00
27 Naphthalene-d8	11.69	11.19	12.19	11.69	0.00
42 Acenaphthene-d10	15.33	14.83	15.83	15.33	0.00
59 Phenanthrene-d10	18.38	17.88	18.88	18.37	-0.04
69 Chrysene-d12	23.42	22.92	23.92	23.42	0.00
134 Di-n-octylphthala	24.44	23.94	24.94	24.44	0.00
77 Perylene-d12	26.10	25.60	26.60	26.10	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123011.D

Lab ID: SKL0355-ICV1
nt14.i, 20221230.b\ABN.m,   30-DEC-2022 13:31

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1422123002.D

On Column LOD for nt14.i, 20221230.b\ABN.m, ICAL.sub = 0.0000

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

Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123012.D

Page 1

Date : 30-DEC-2022 14:08

Client ID:

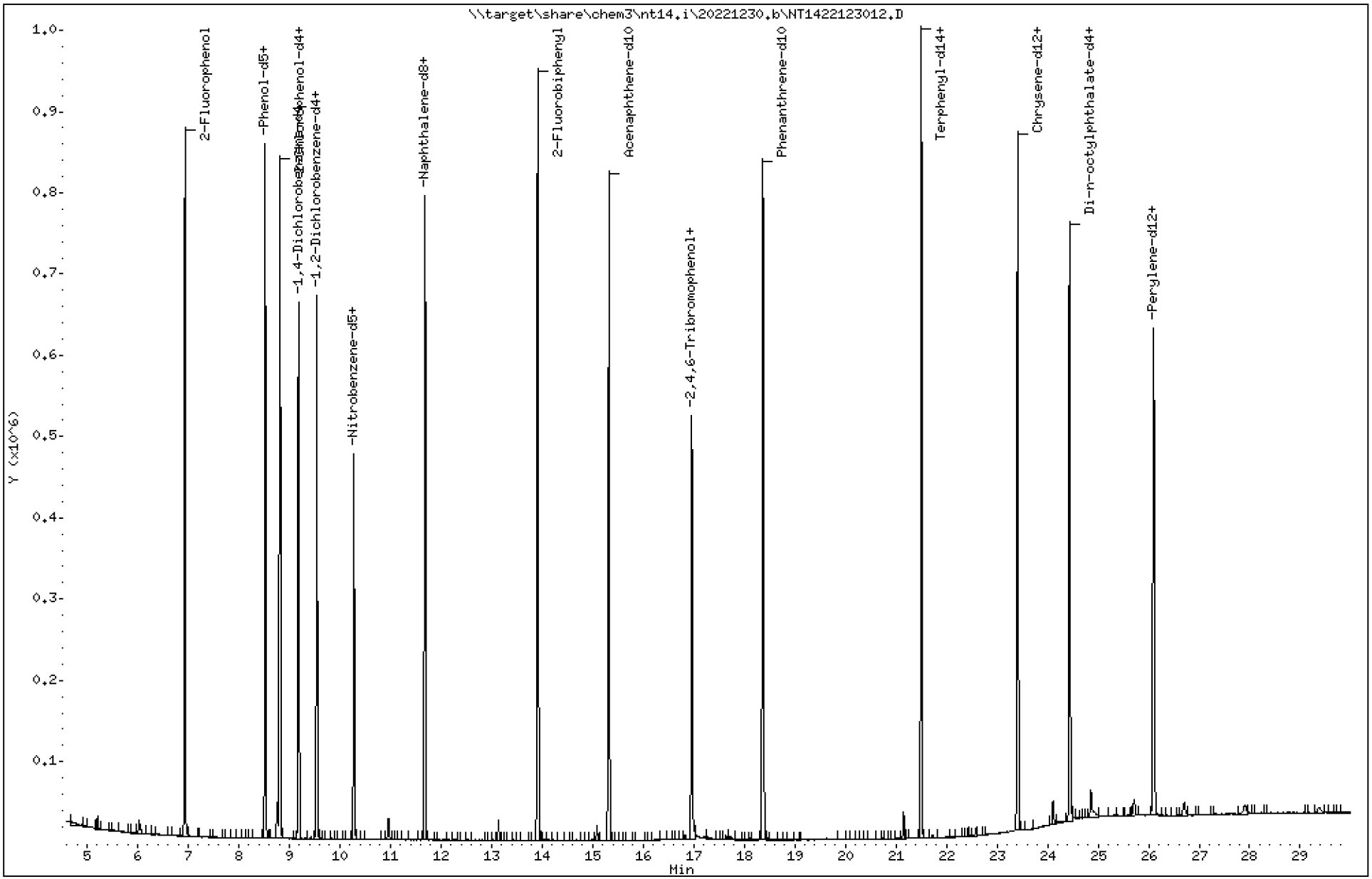
Instrument: nt14.i

Sample Info: SKL0355-ICB1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

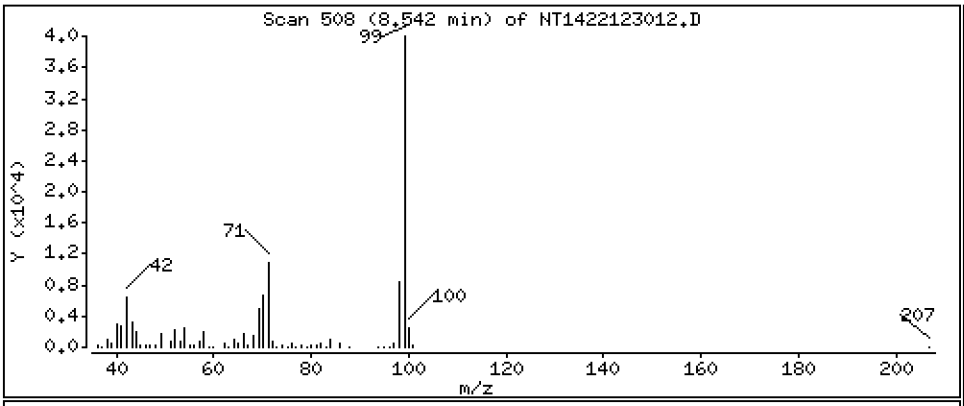
Operator: VTS

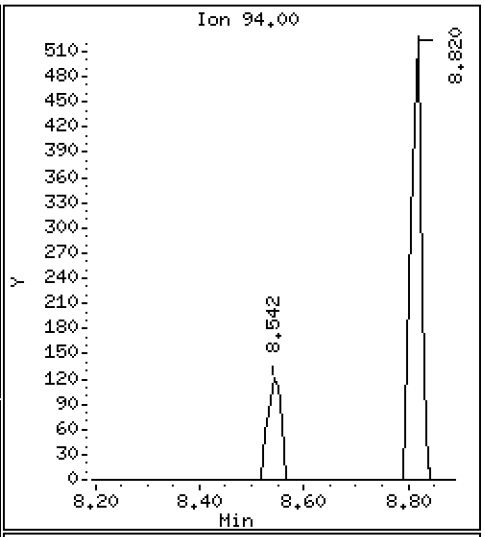
Column phase: ZB-5msi

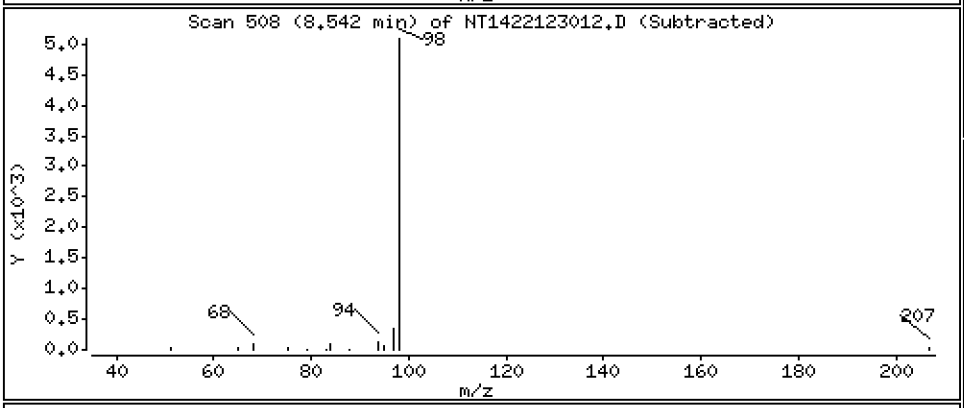
Column diameter: 0.25

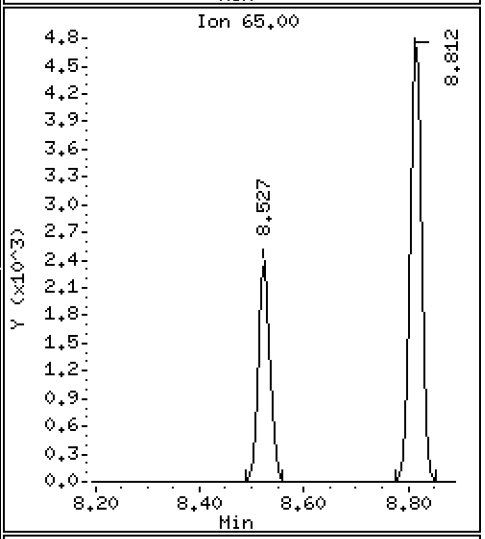
3 Phenol

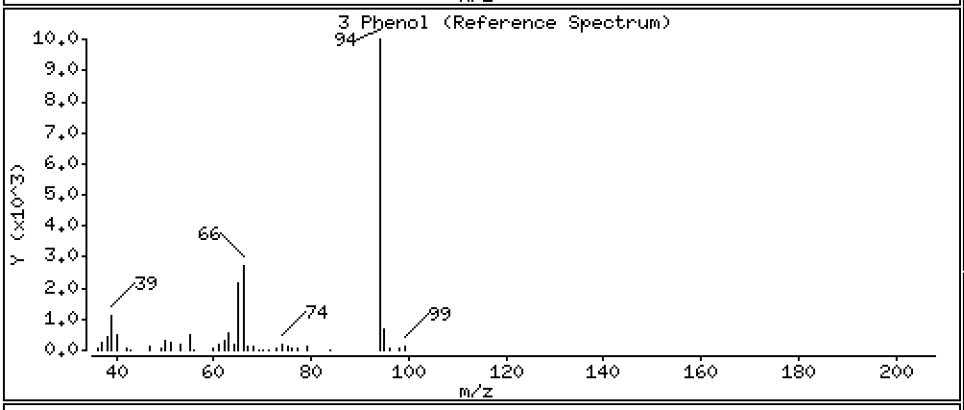
Concentration: 0.002573 ug/mL

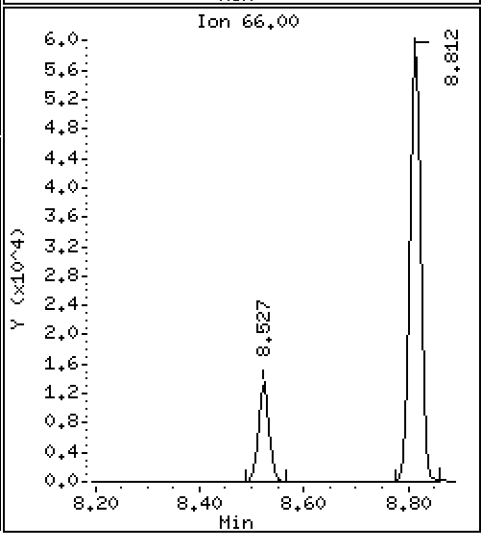


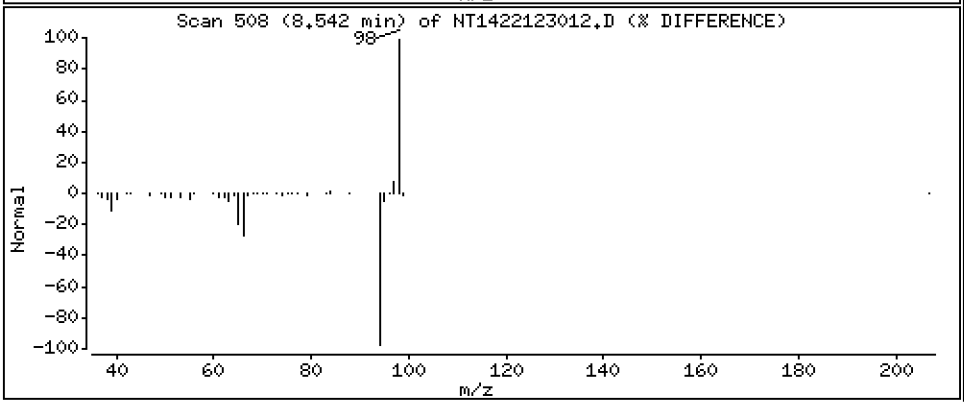












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Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

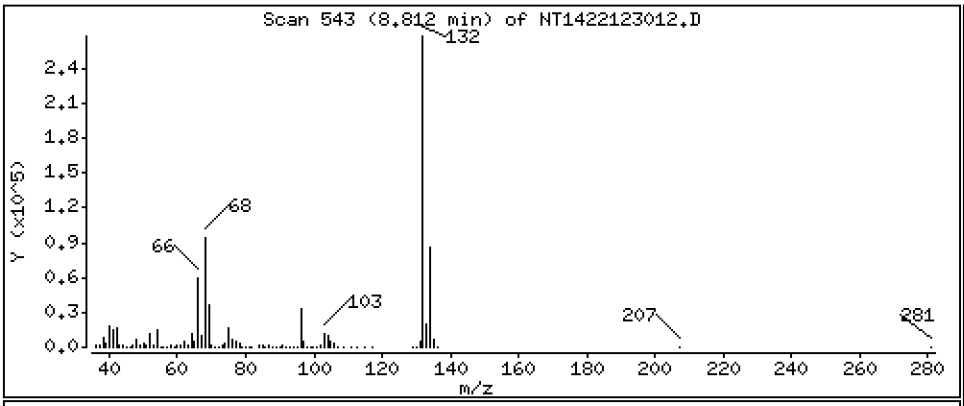
Operator: VTS

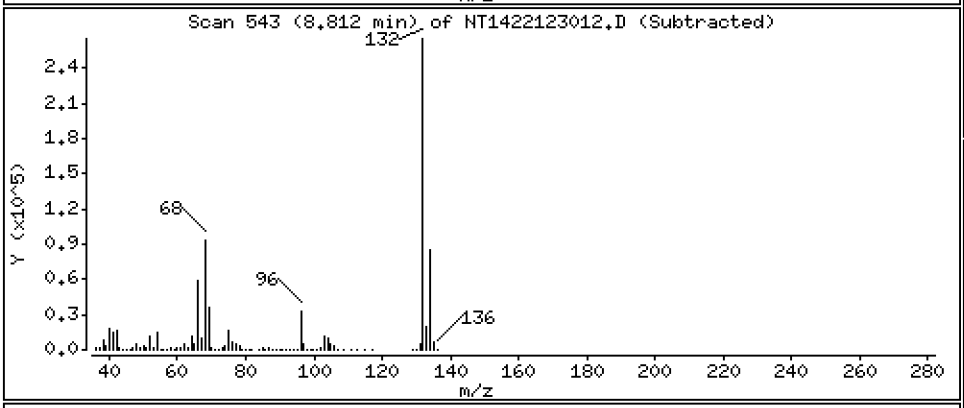
Column phase: ZB-5msi

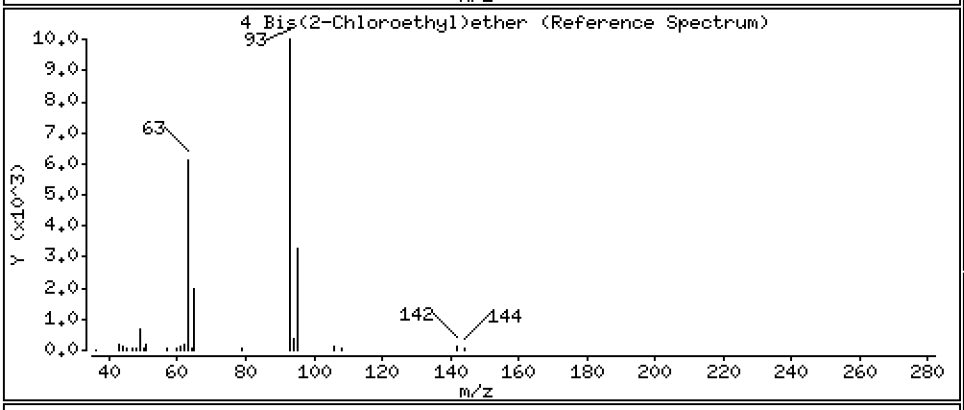
Column diameter: 0.25

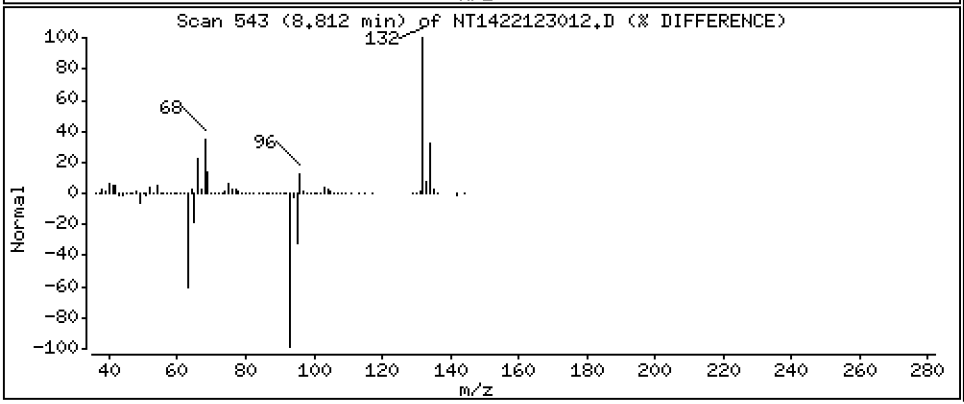
4 Bis(2-Chloroethyl)ether

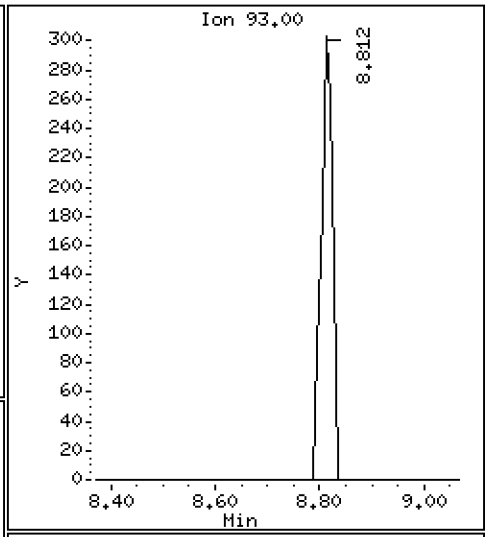
Concentration: 0.008376 ug/mL

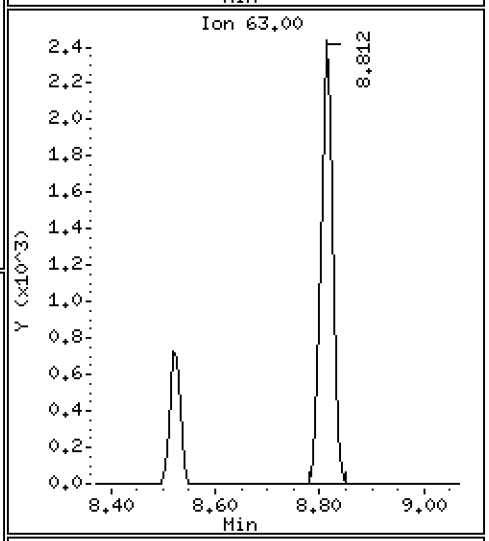


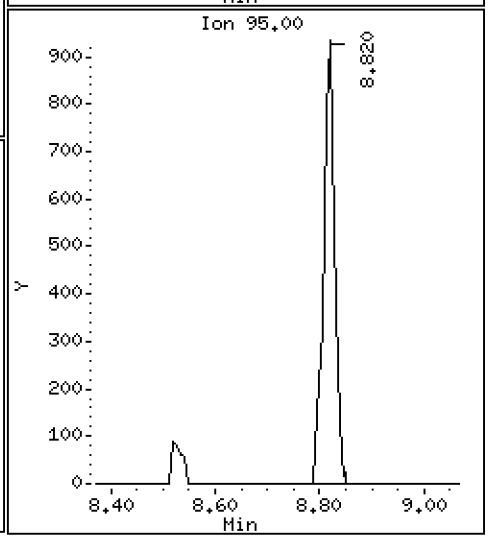












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Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

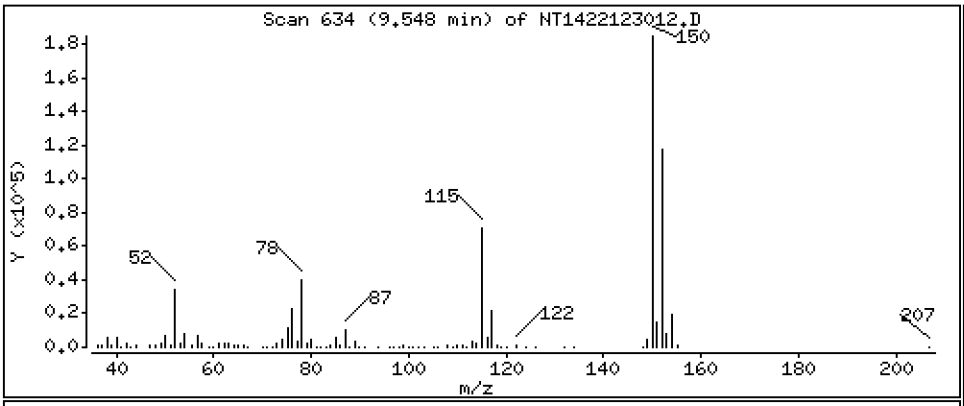
Operator: VTS

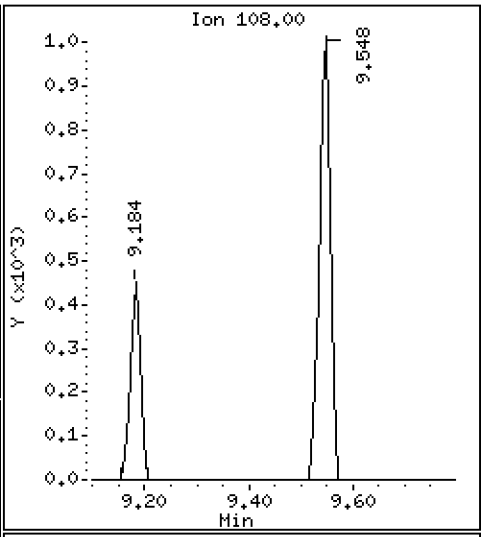
Column phase: ZB-5msi

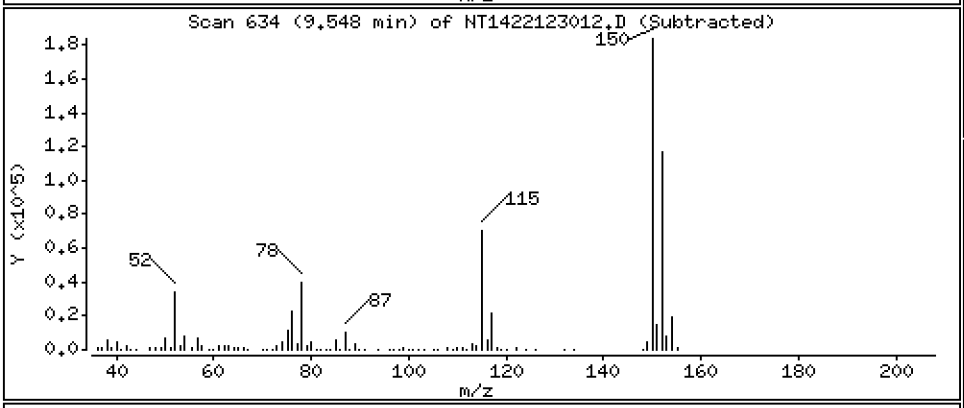
Column diameter: 0.25

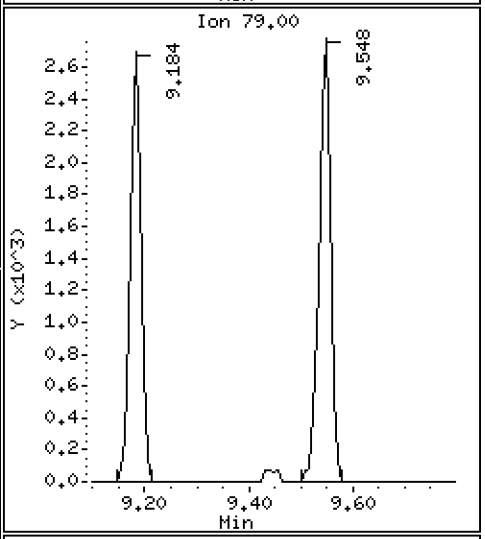
11 Benzyl alcohol

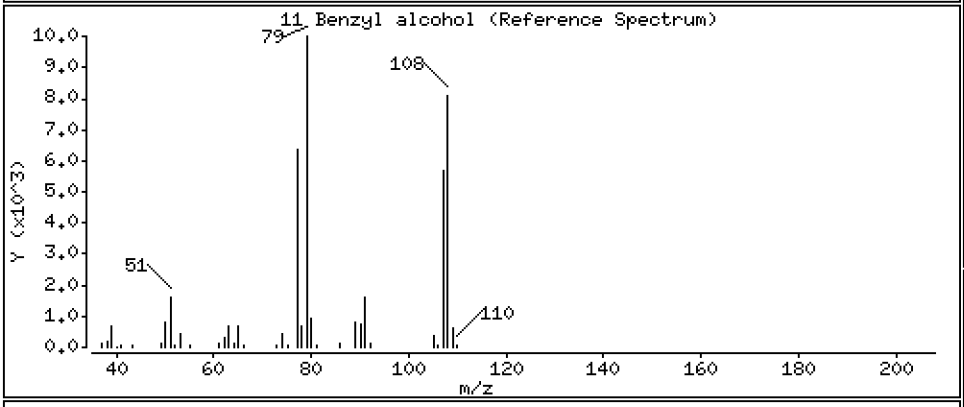
Concentration: 0.04372 ug/mL

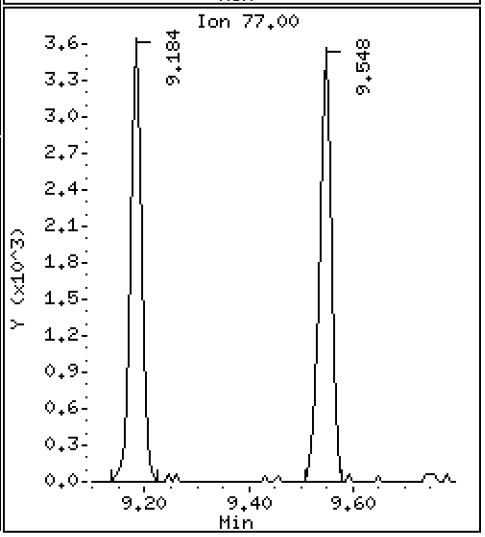


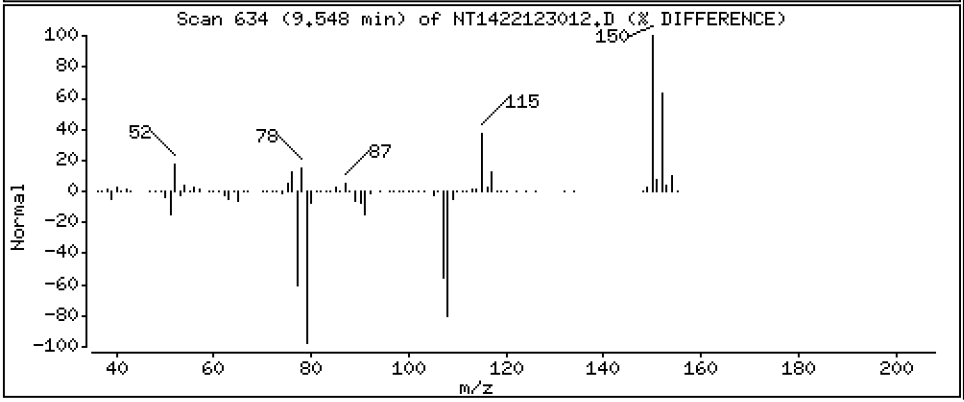












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Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

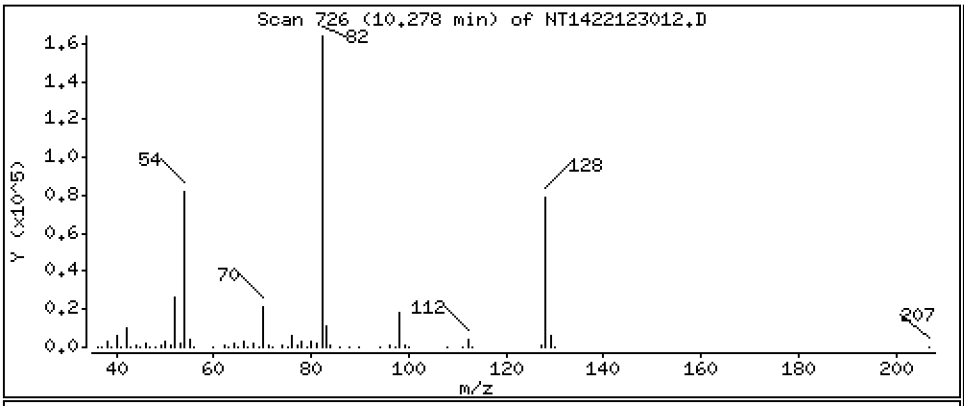
Operator: VTS

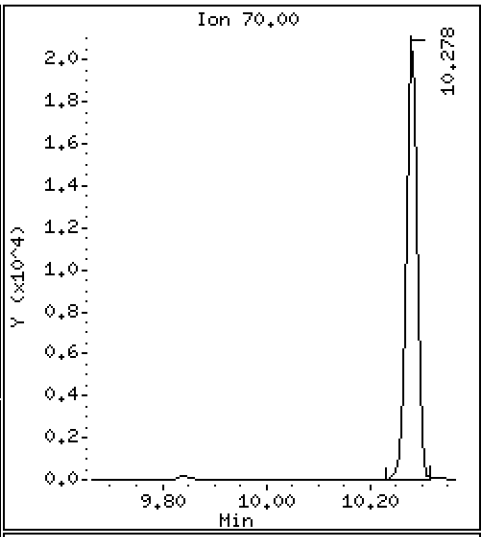
Column phase: ZB-5msi

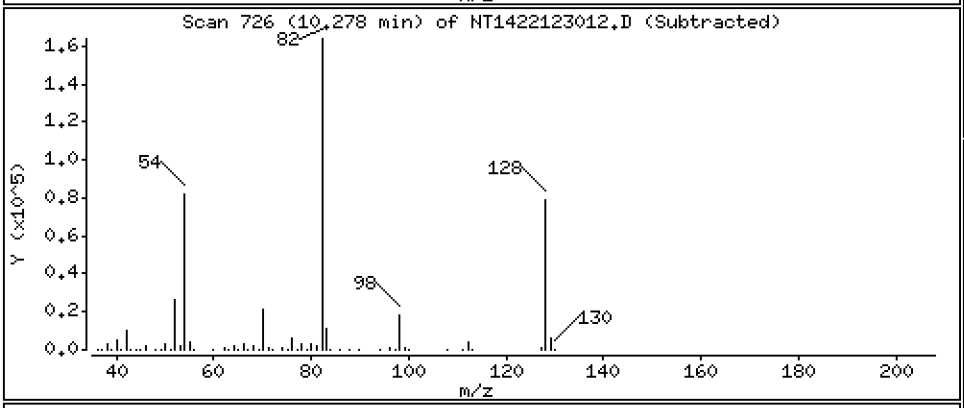
Column diameter: 0.25

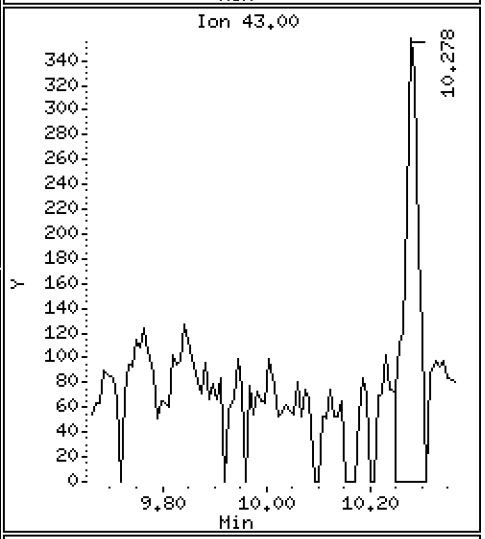
16 N-Nitroso-di-n-propylamine

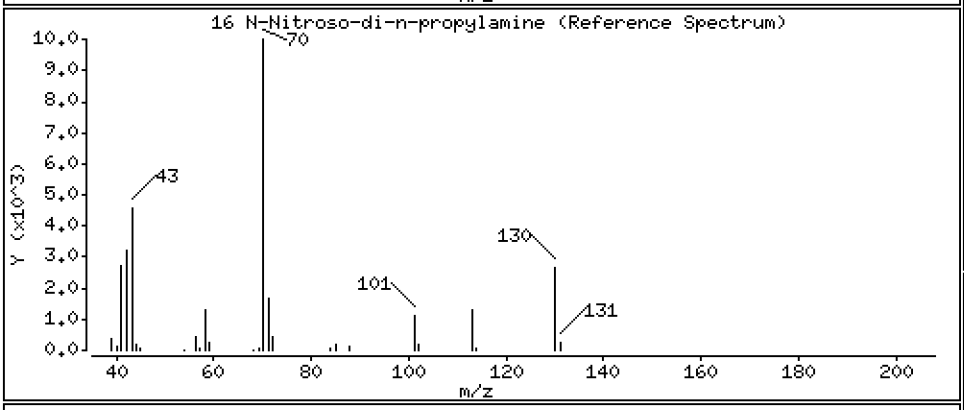
Concentration: 0.9150 ug/mL

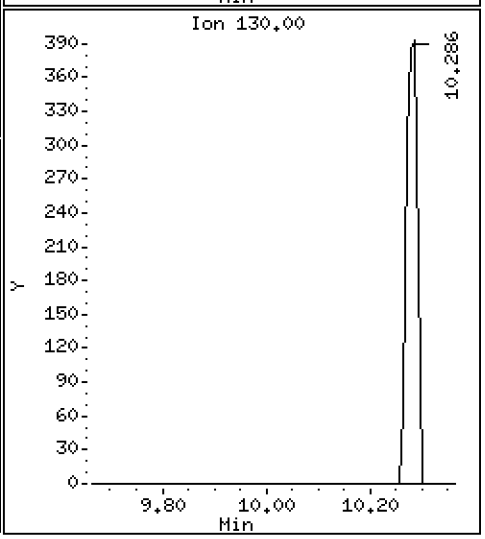


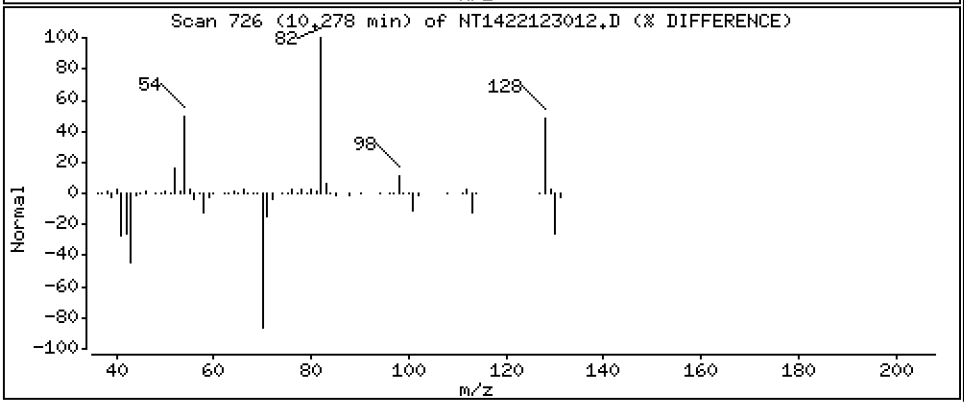












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Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

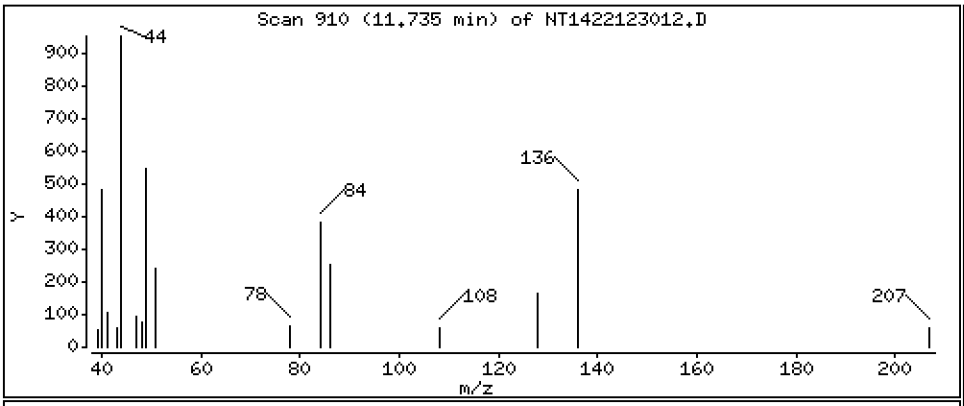
Operator: VTS

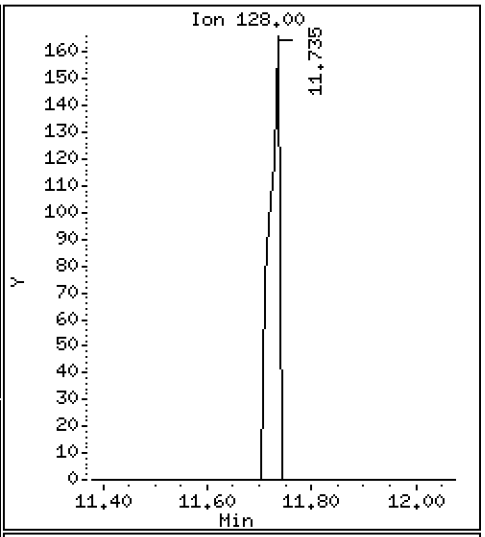
Column phase: ZB-5msi

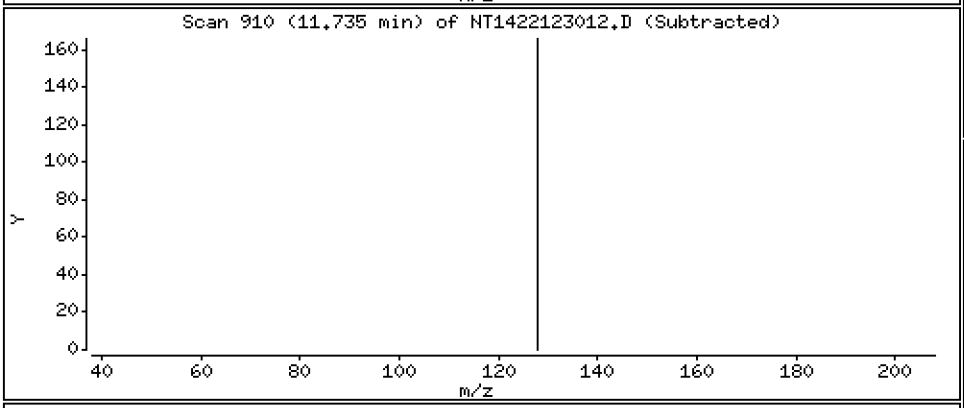
Column diameter: 0.25

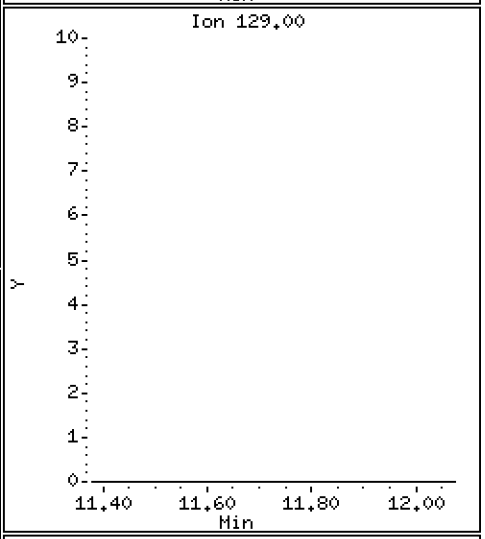
28 Naphthalene

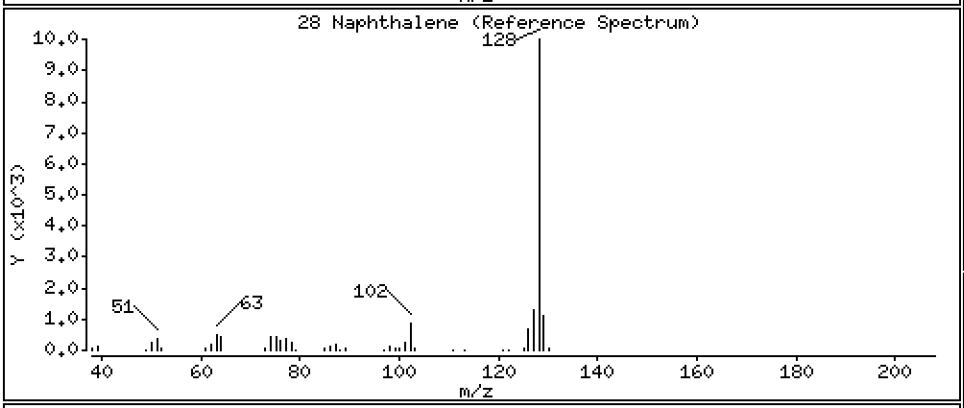
Concentration: 0.001336 ug/mL

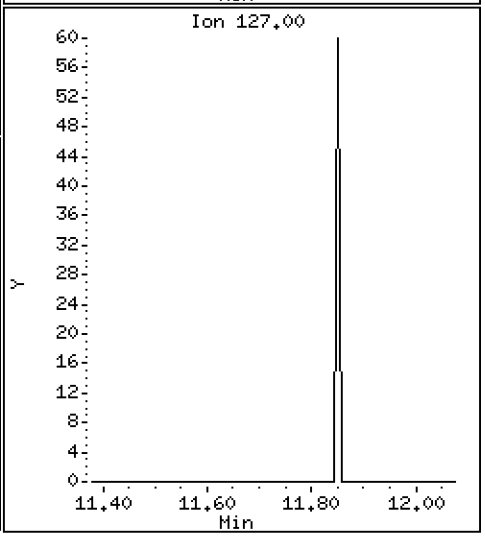


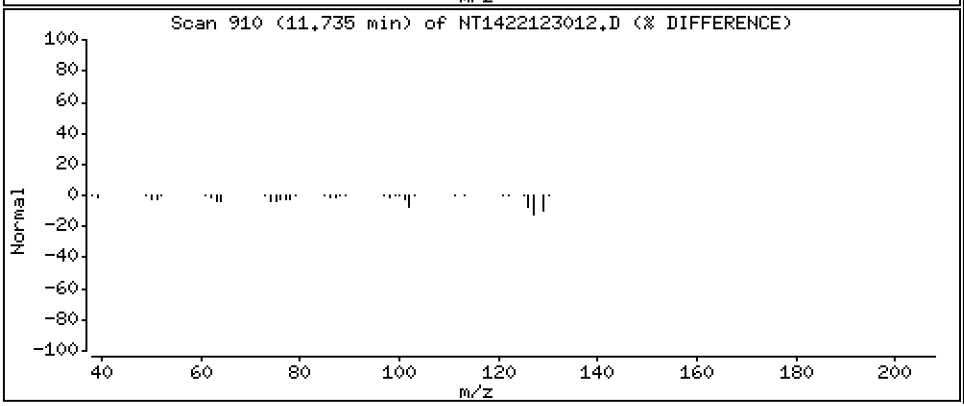












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Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

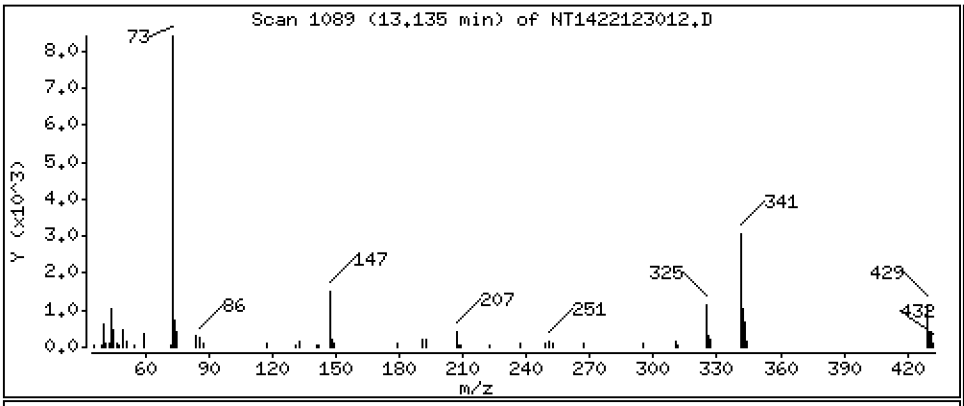
Operator: VTS

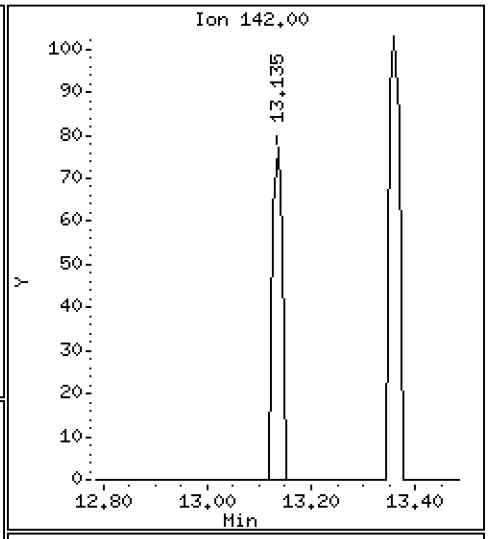
Column phase: ZB-5msi

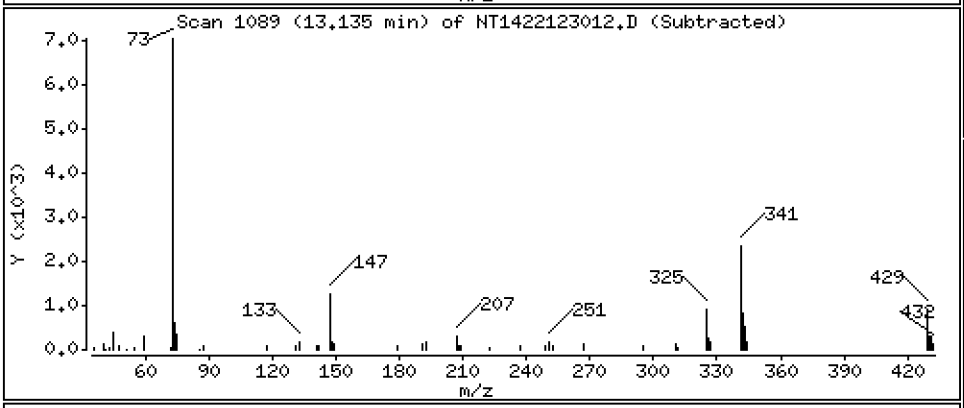
Column diameter: 0.25

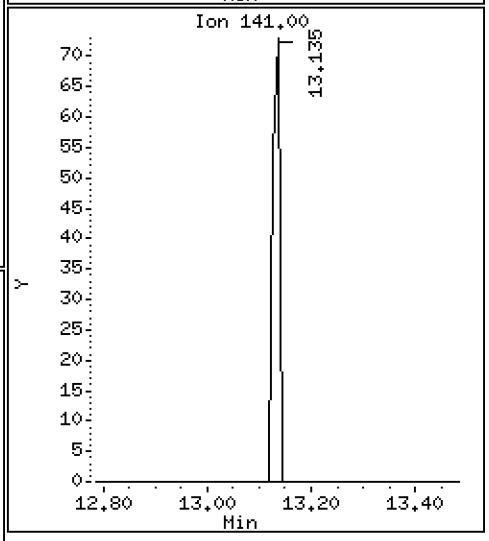
32 2-Methylnaphthalene

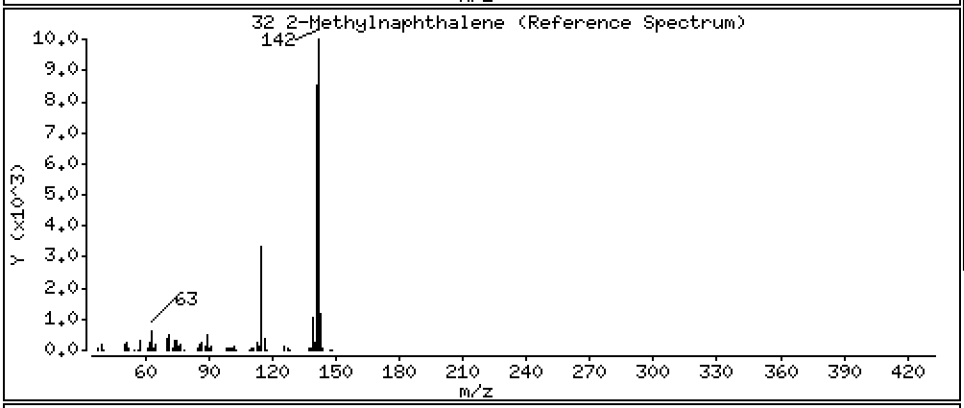
Concentration: 0.0007767 ug/mL

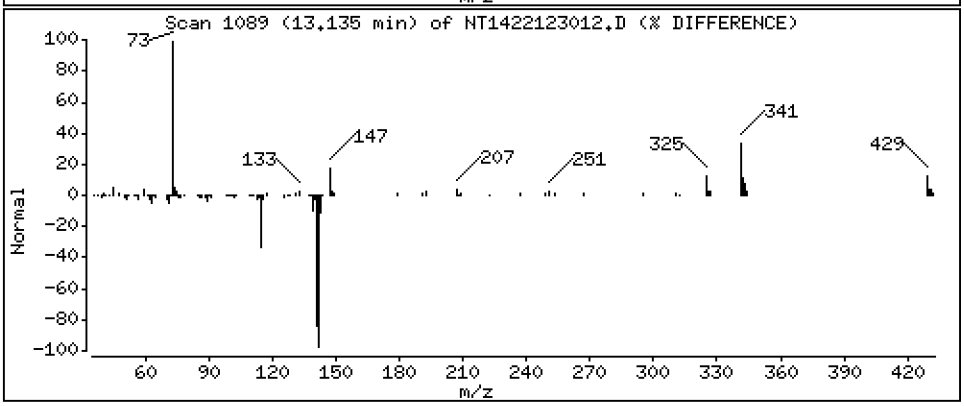












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Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

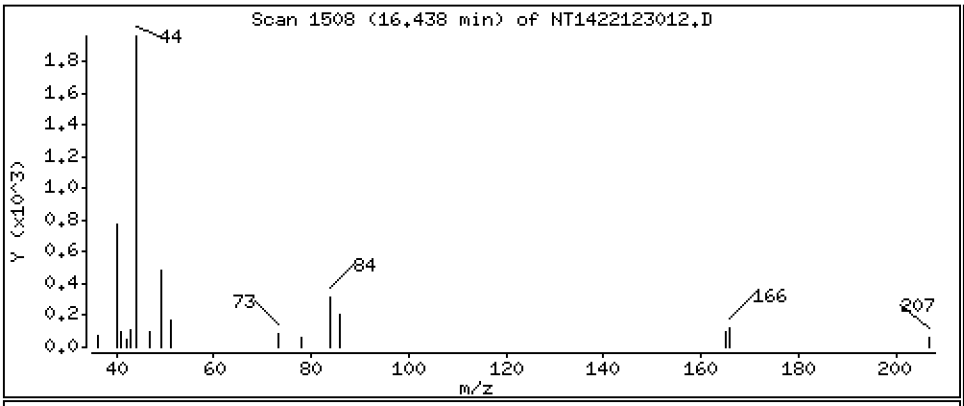
Operator: VTS

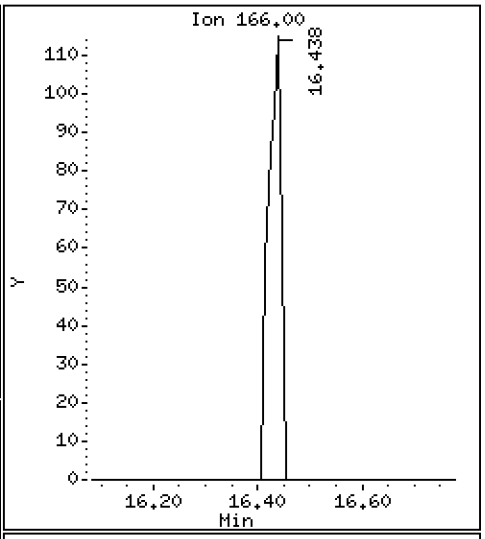
Column phase: ZB-5msi

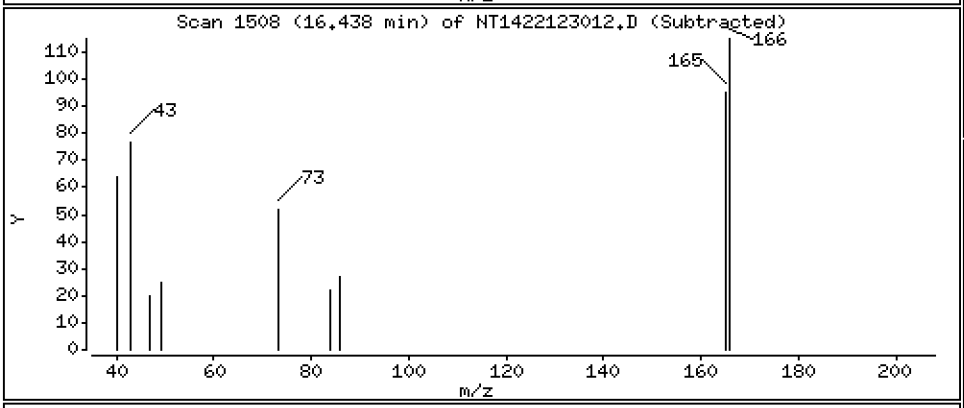
Column diameter: 0.25

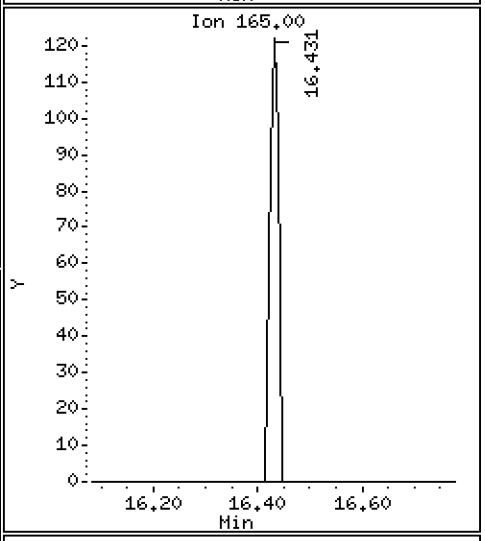
49 Fluorene

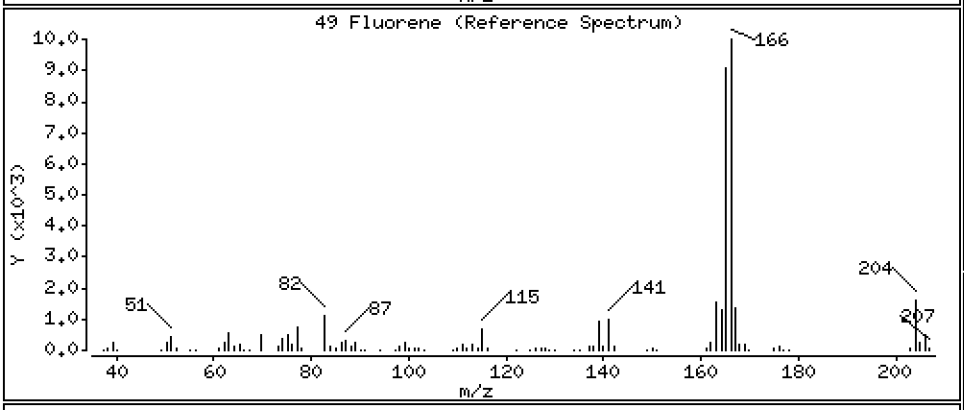
Concentration: 0.001319 ug/mL

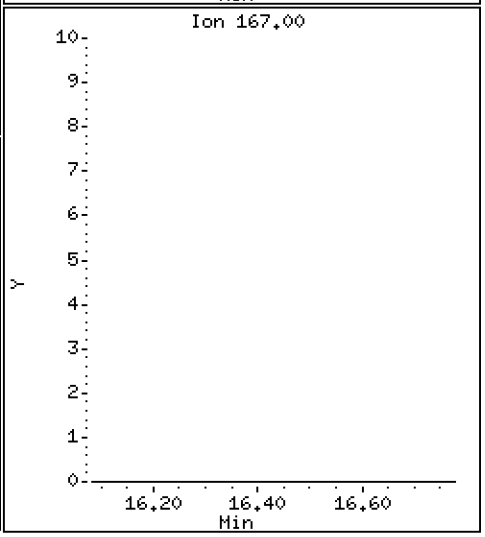


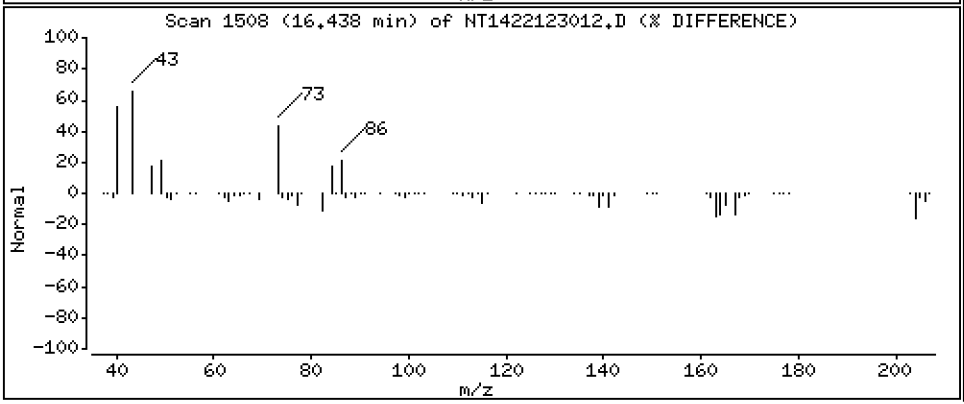












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Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

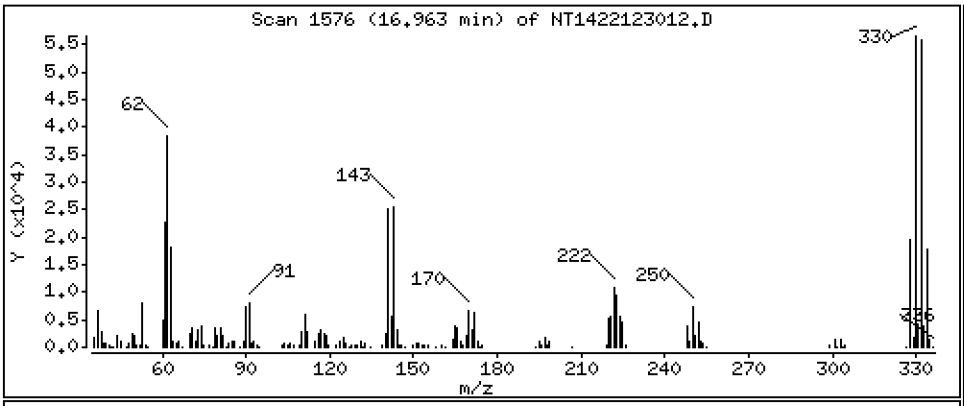
Operator: VTS

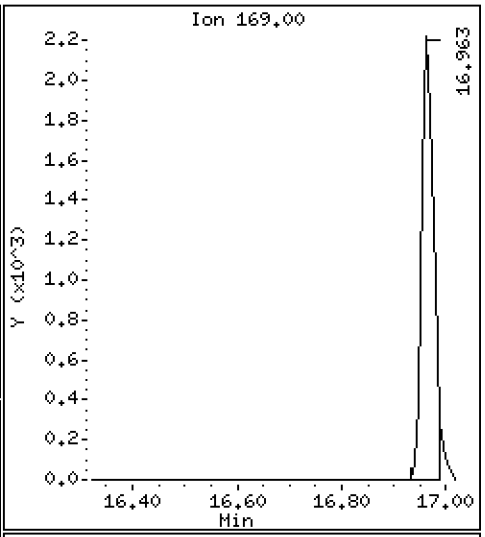
Column phase: ZB-5msi

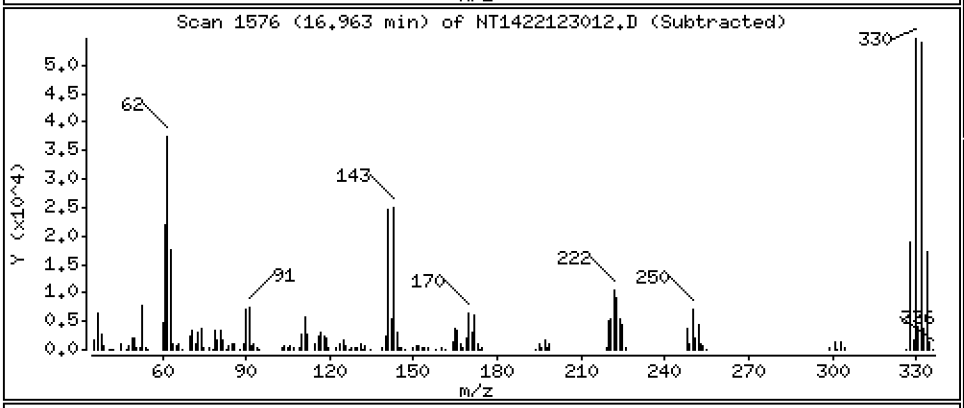
Column diameter: 0.25

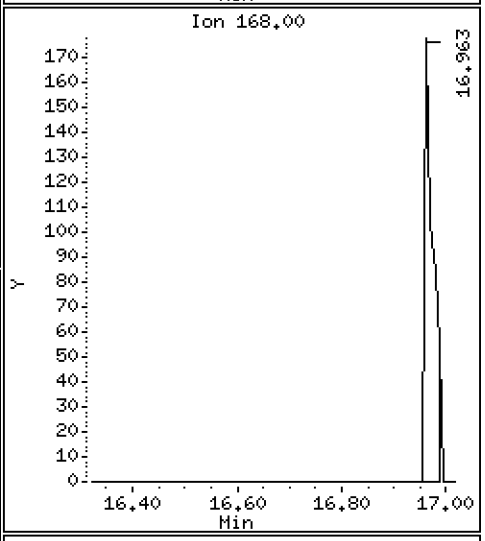
54 N-Nitrosodiphenylamine

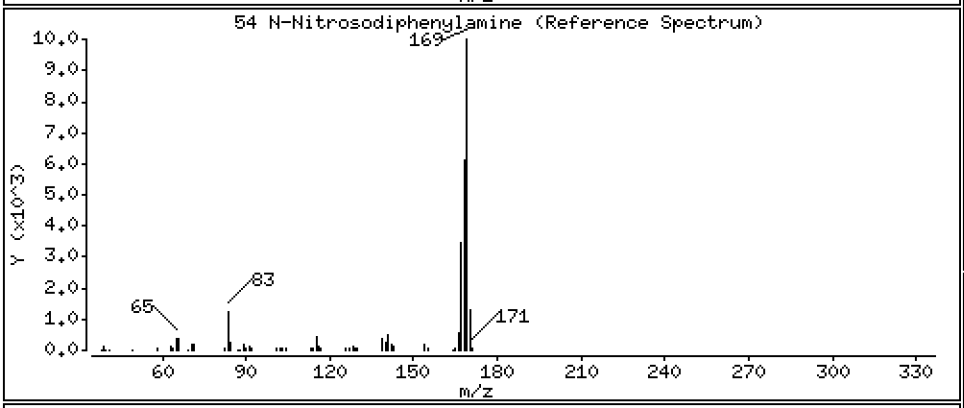
Concentration: 0.03543 ug/mL

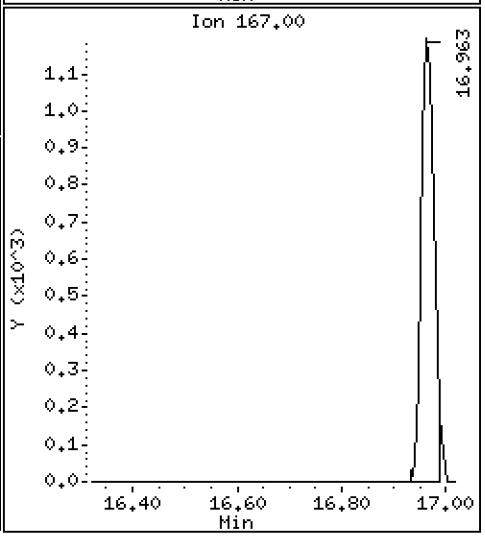


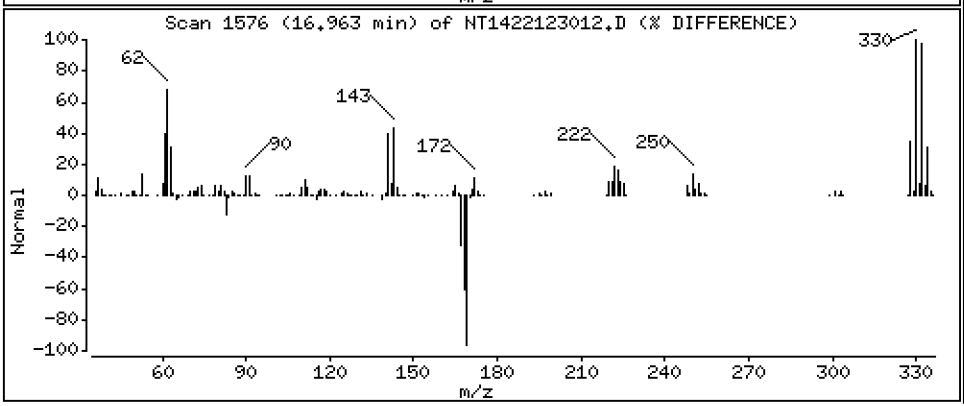












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Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

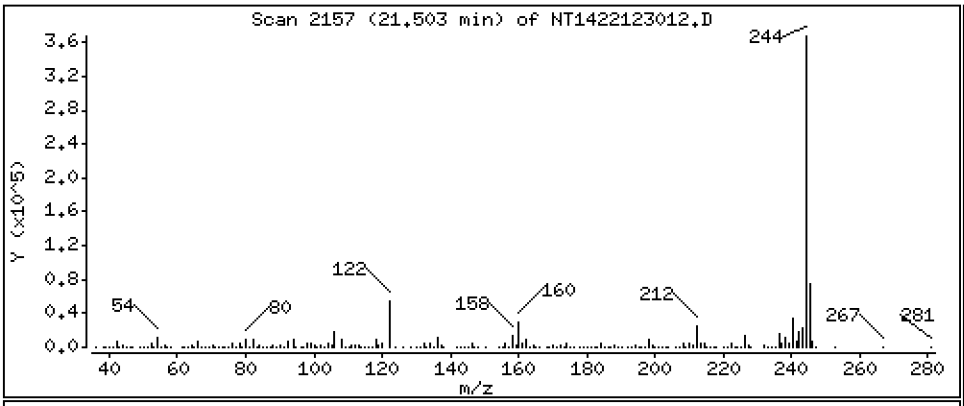
Operator: VTS

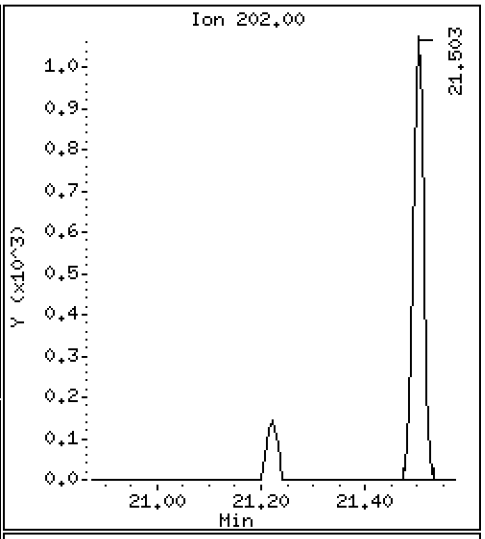
Column phase: ZB-5msi

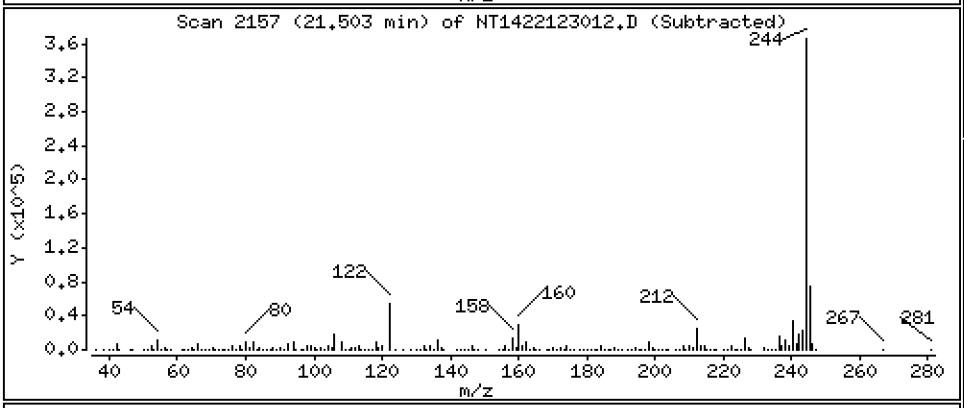
Column diameter: 0.25

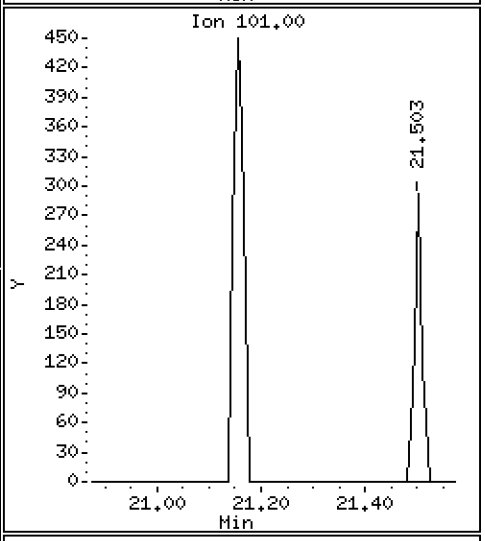
65 Pyrene

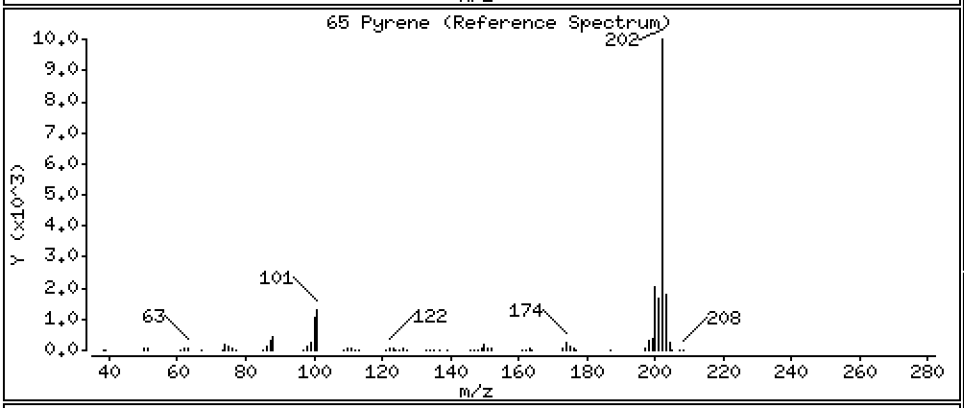
Concentration: 0.01055 ug/mL

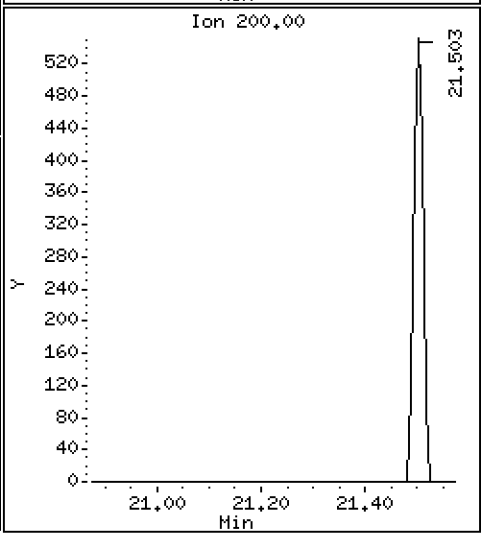


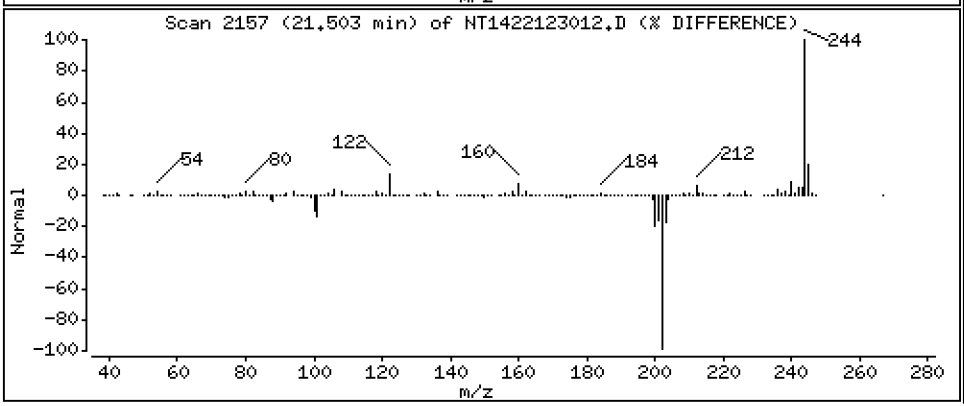












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Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

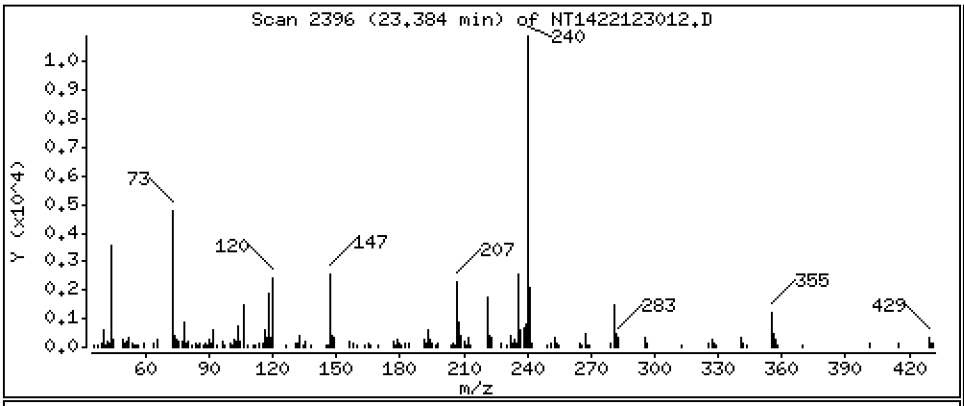
Operator: VTS

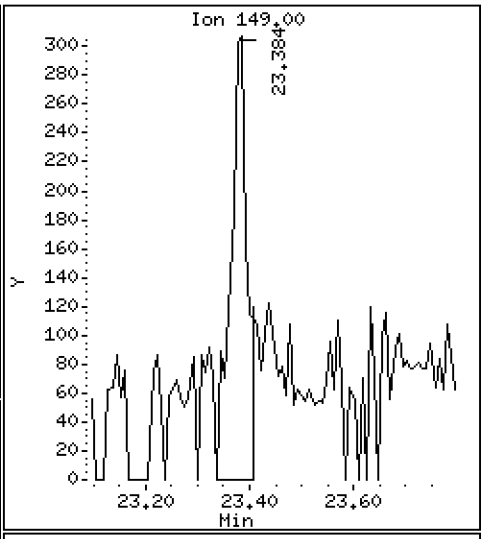
Column phase: ZB-5msi

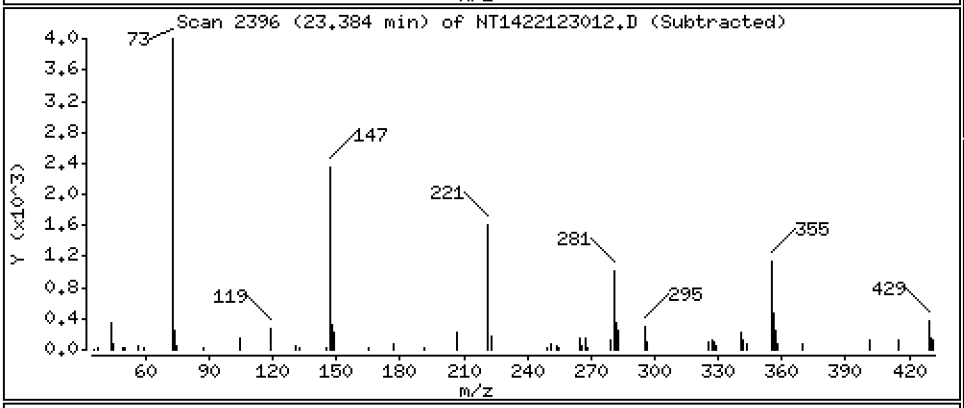
Column diameter: 0.25

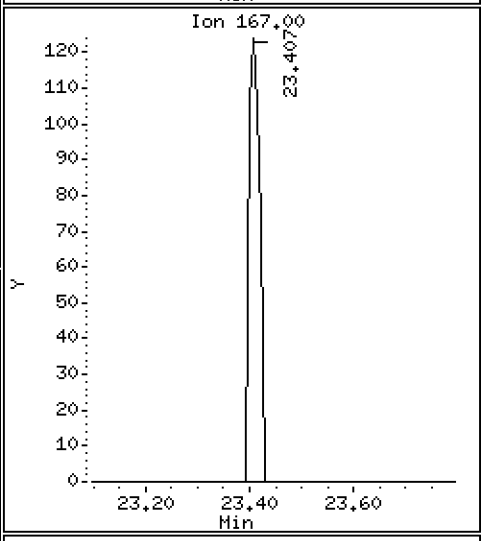
72 bis(2-Ethylhexyl)phthalate

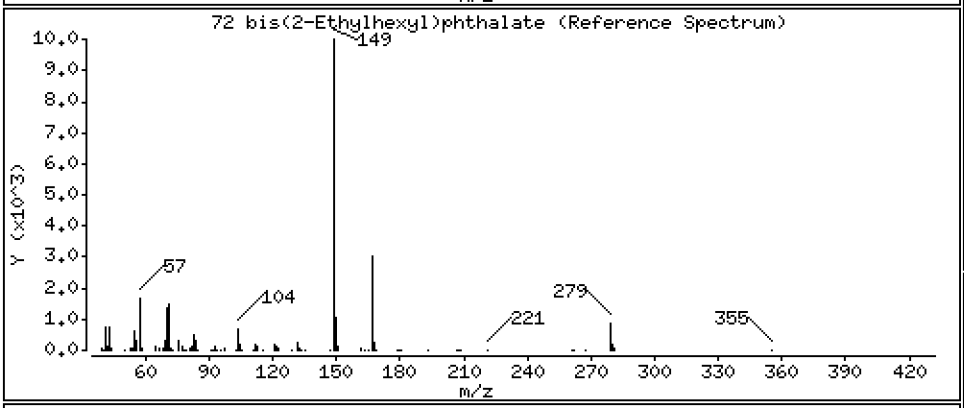
Concentration: 0.01128 ug/mL

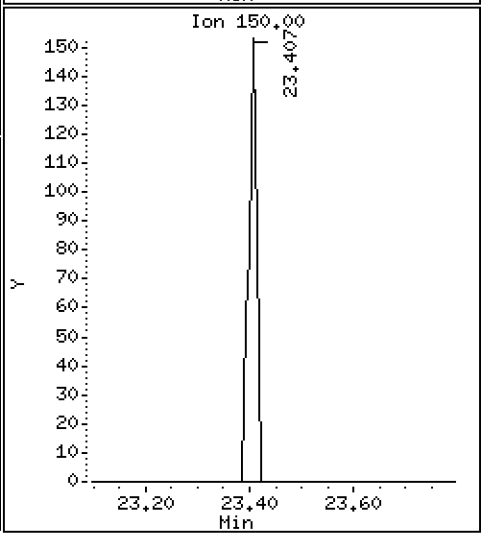


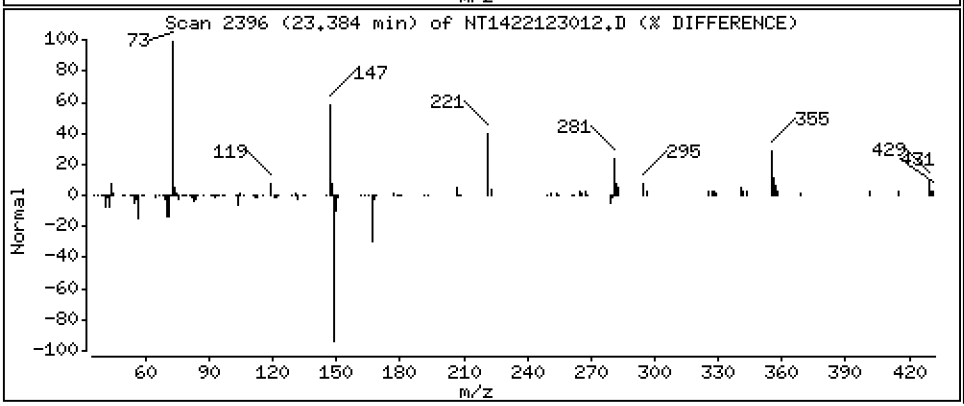












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Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

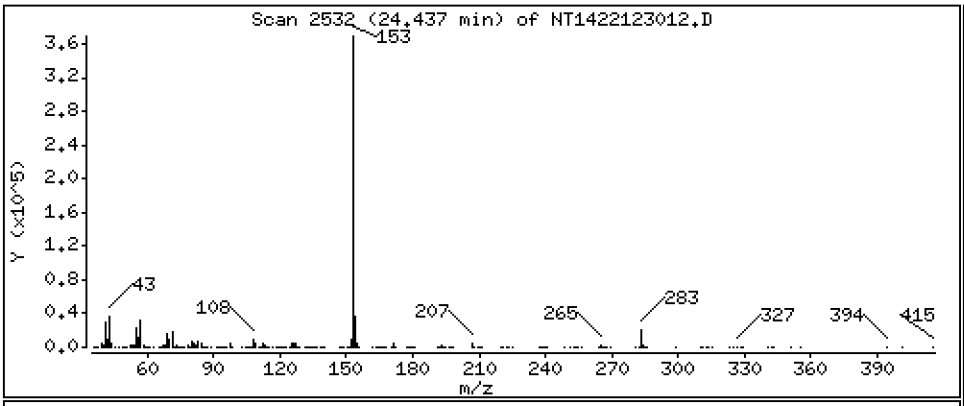
Operator: VTS

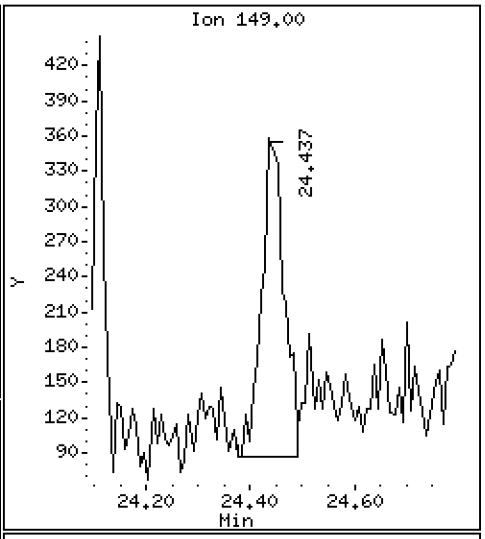
Column phase: ZB-5msi

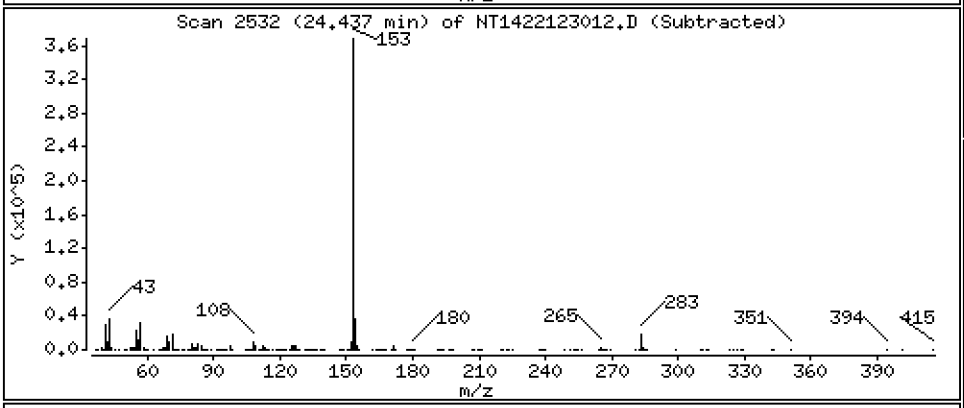
Column diameter: 0.25

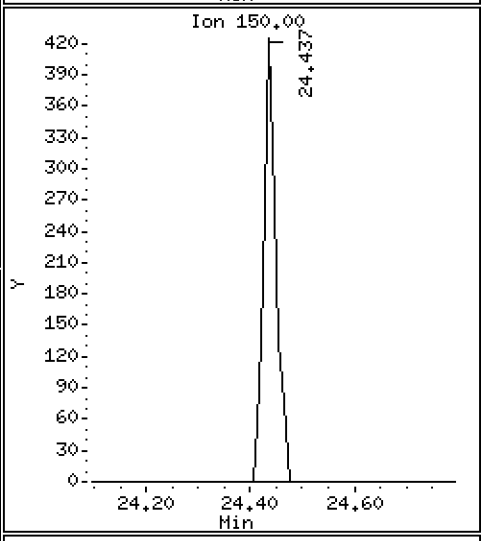
73 Di-n-octylphthalate

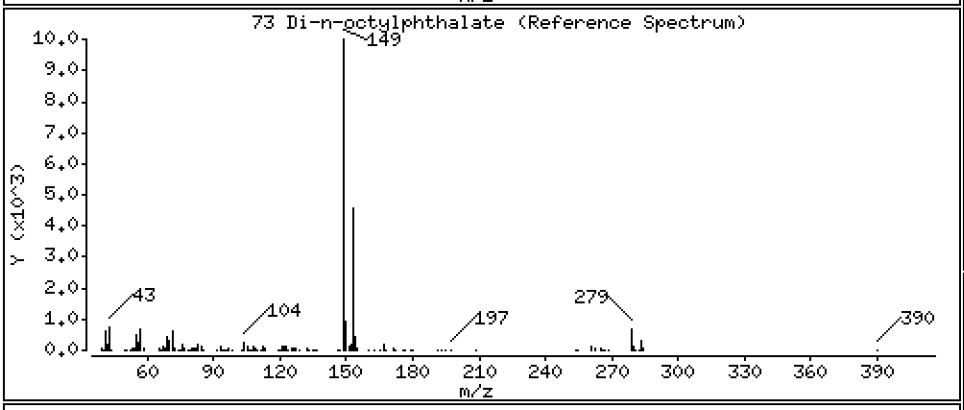
Concentration: 0.006180 ug/mL

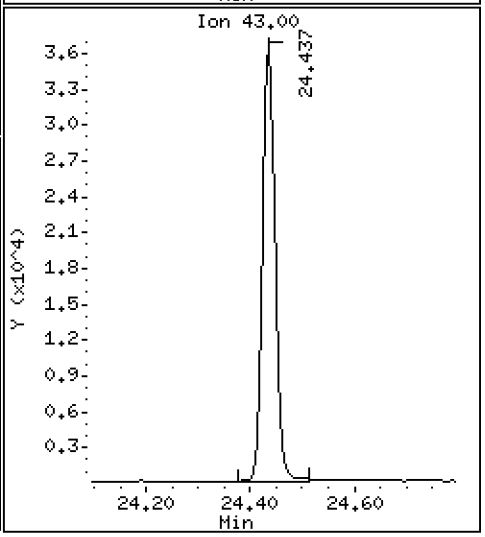


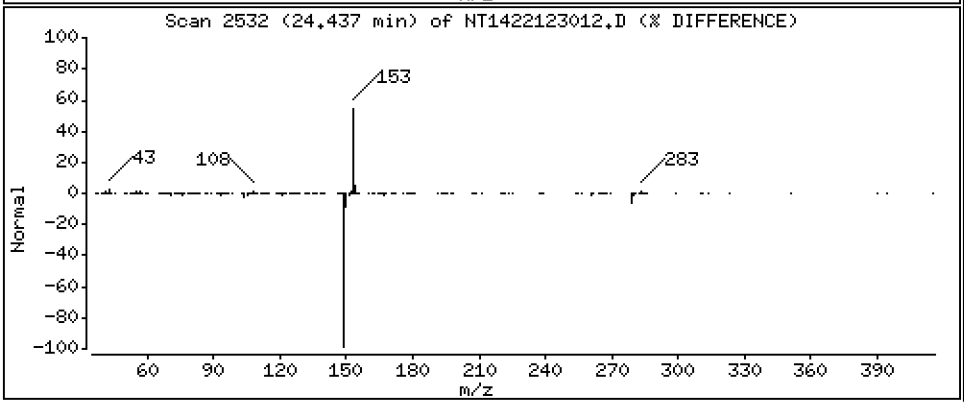












Date : 30-DEC-2022 14:08

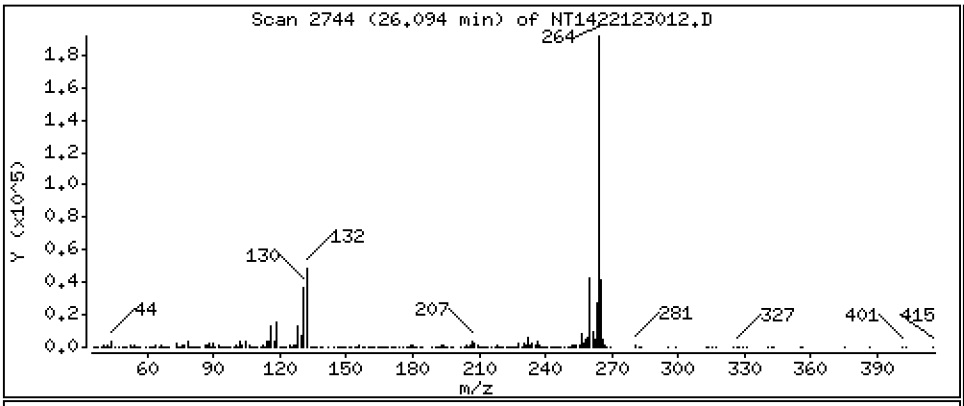
Client ID: Instrument: nt14.i

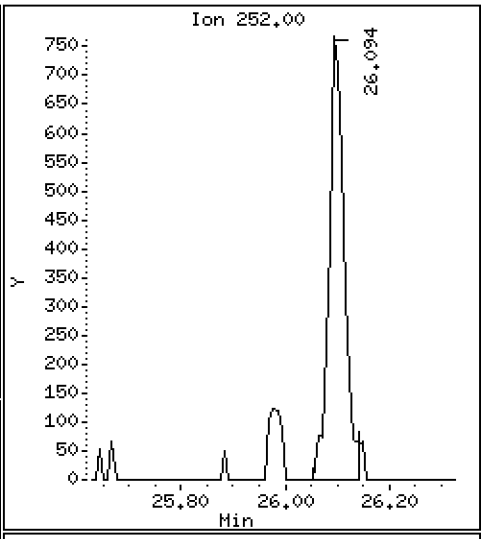
Sample Info: SKL0355-ICB1

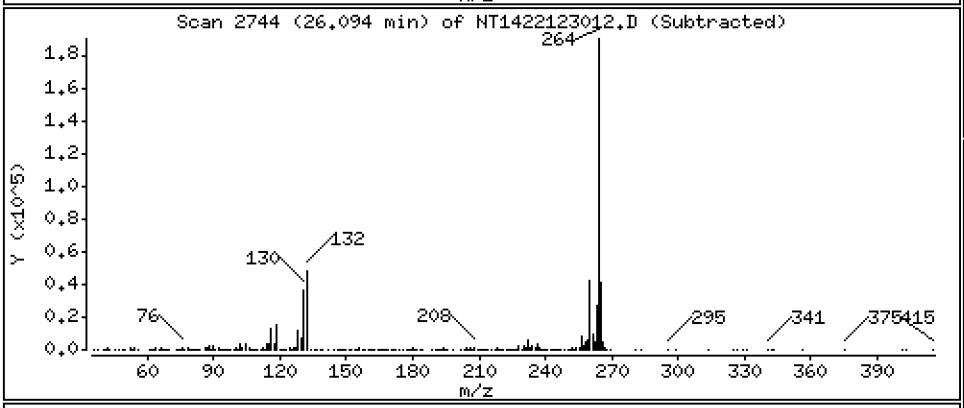
Operator: VTS

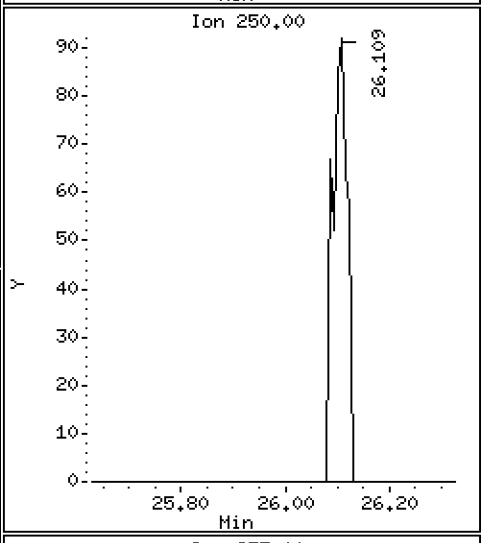
Column phase: ZB-5msi Column diameter: 0.25

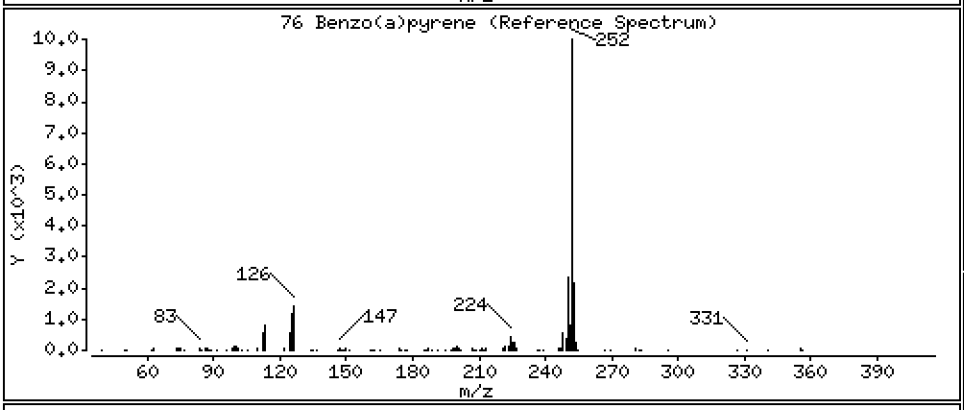
76 Benzo(a)pyrene Concentration: 0.01457 ug/mL

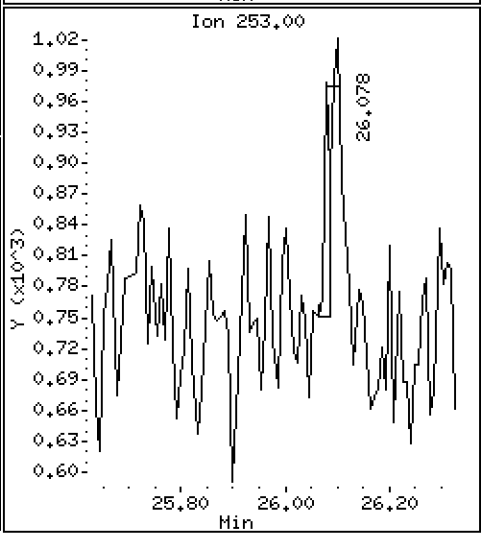


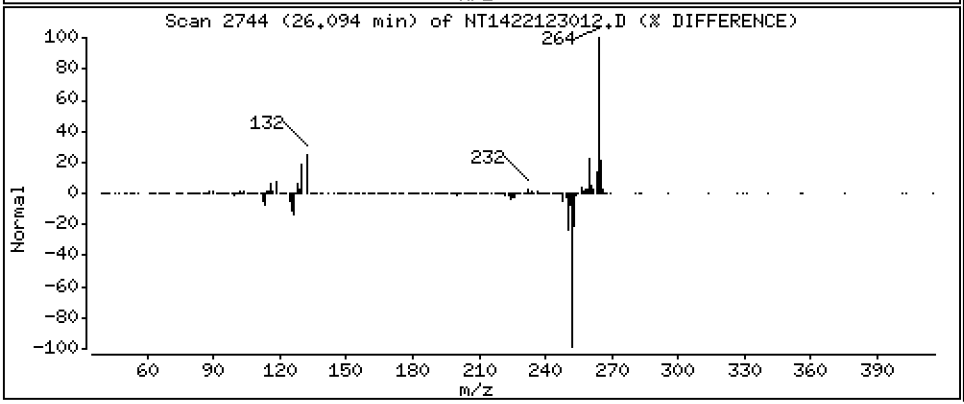












Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123012.D

Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

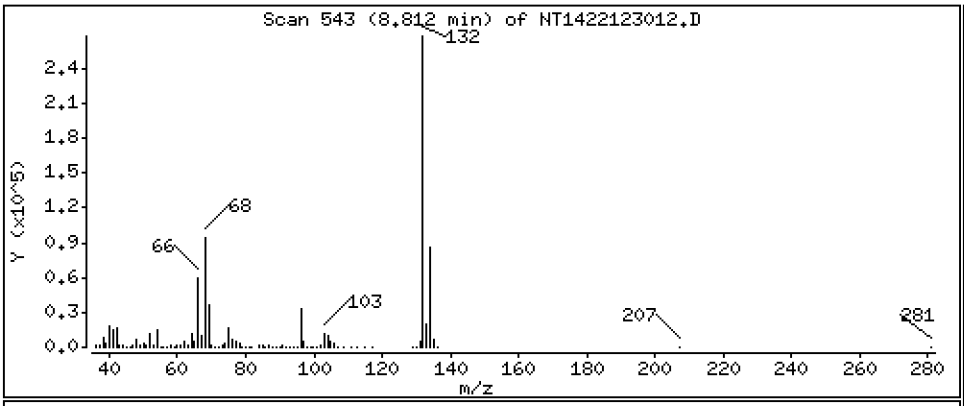
Operator: VTS

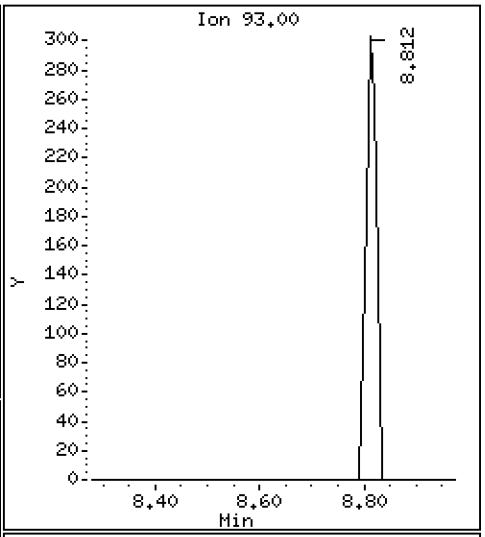
Column phase: ZB-5msi

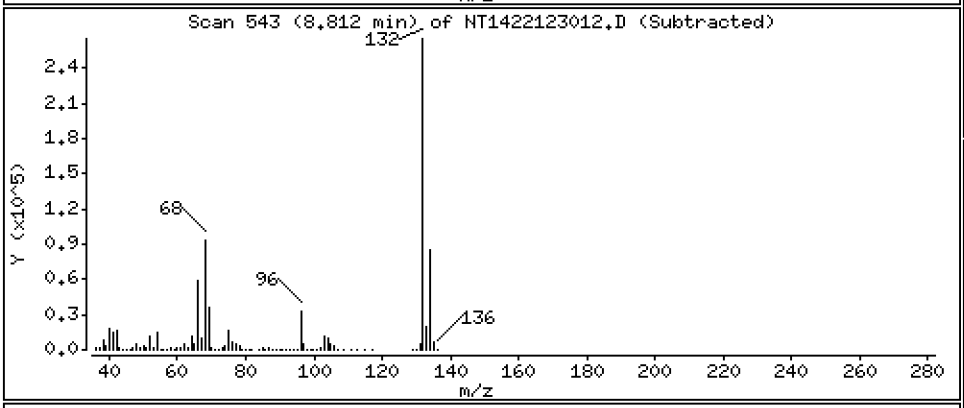
Column diameter: 0.25

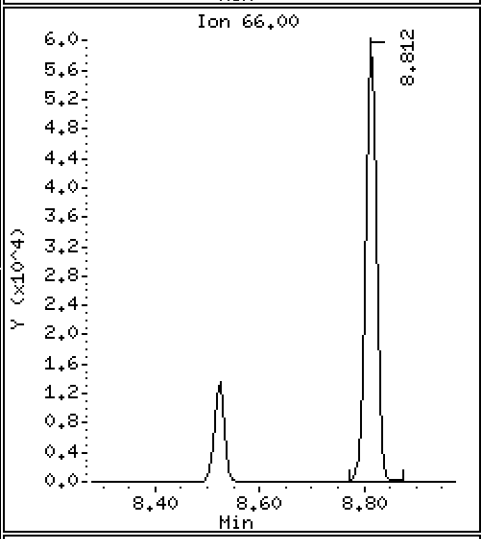
91 Aniline

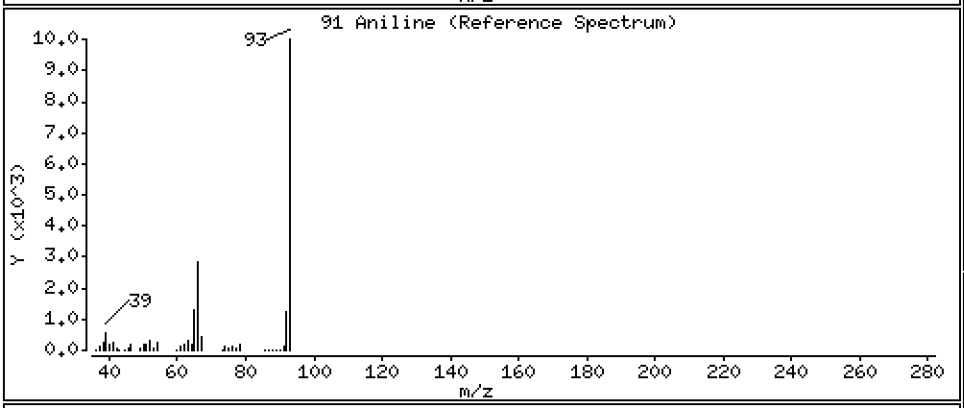
Concentration: 0.005926 ug/mL

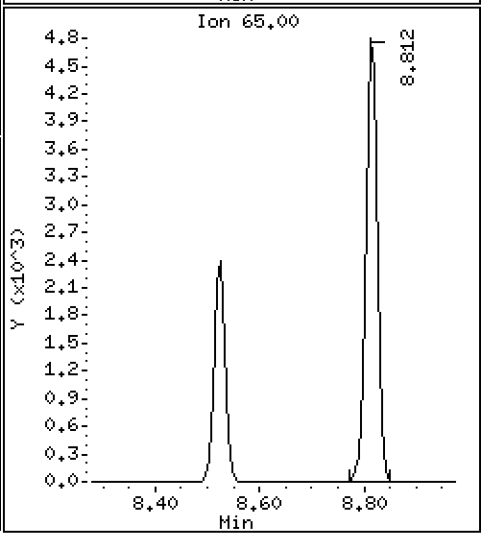


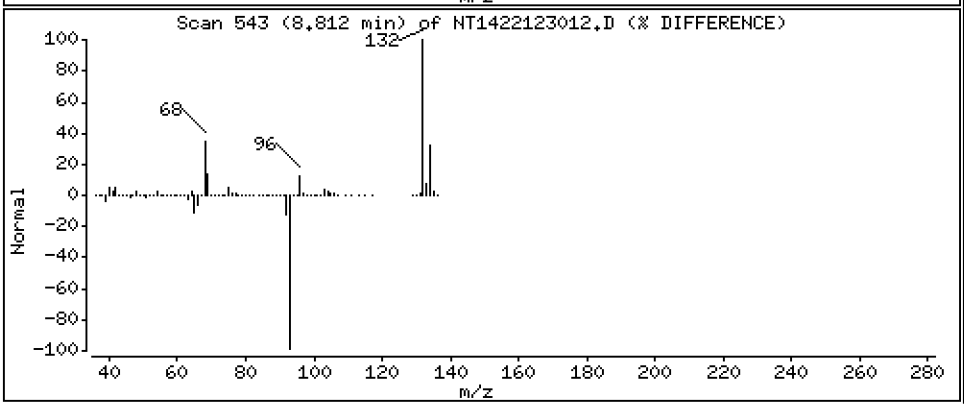












Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123012.D

Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

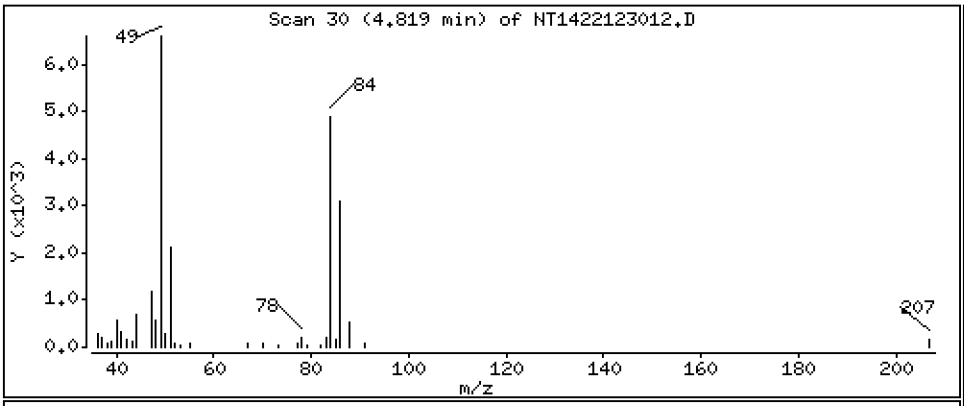
Operator: VTS

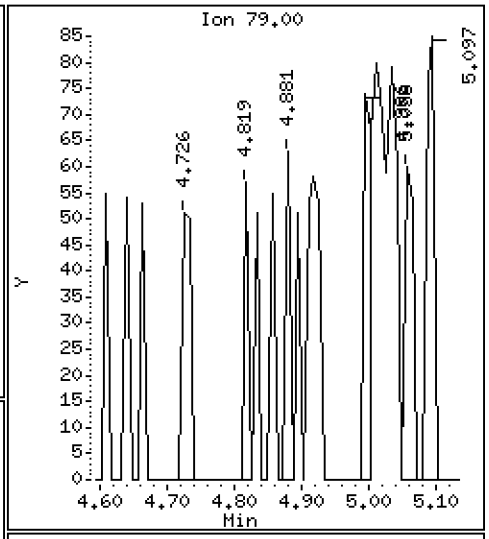
Column phase: ZB-5msi

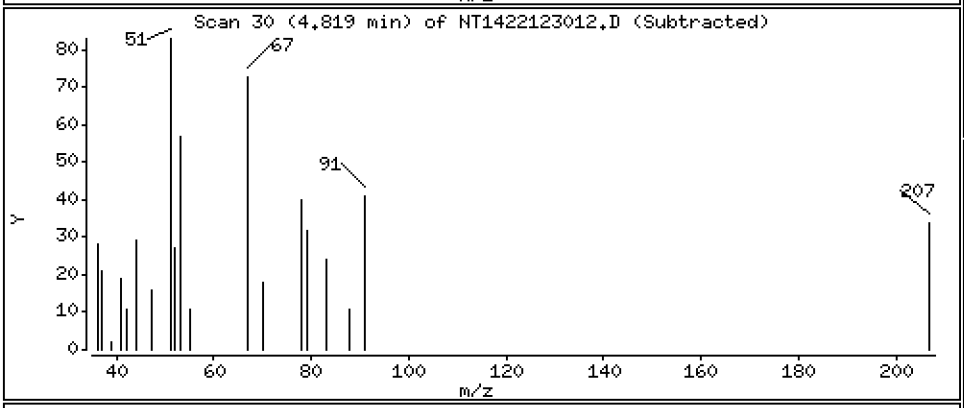
Column diameter: 0.25

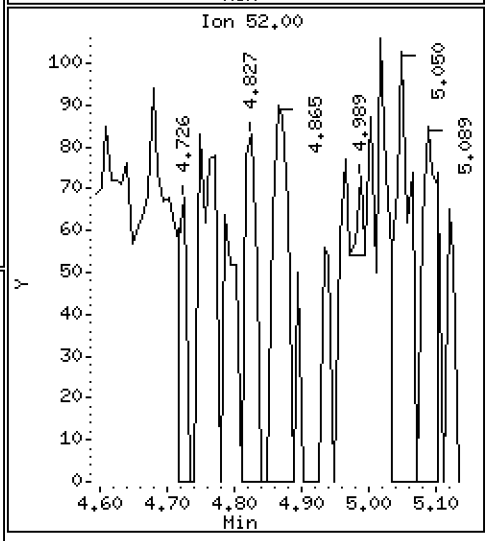
103 Pyridine

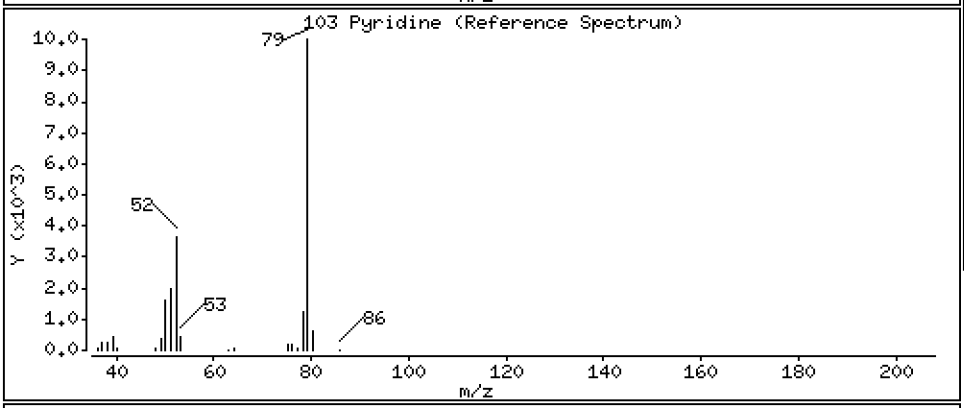
Concentration: 0.0002125 ug/mL

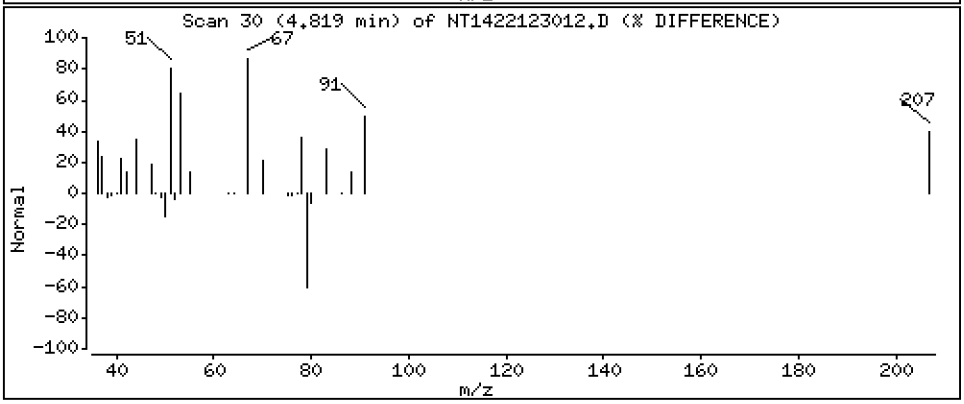












Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123012.D

Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

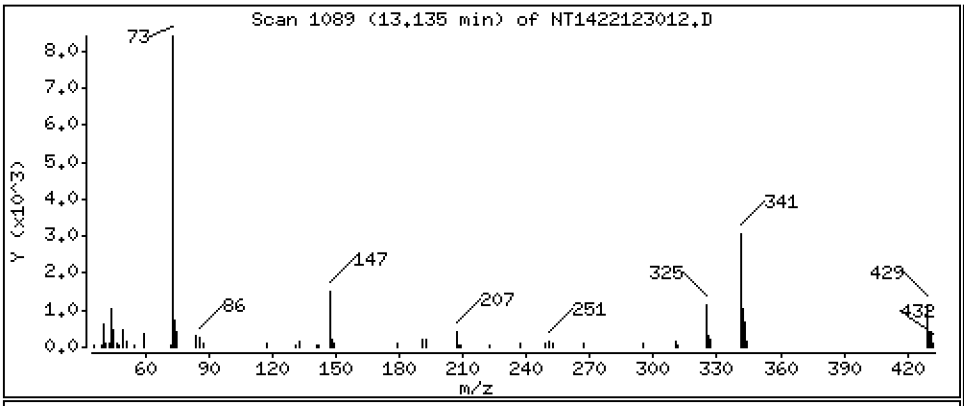
Operator: VTS

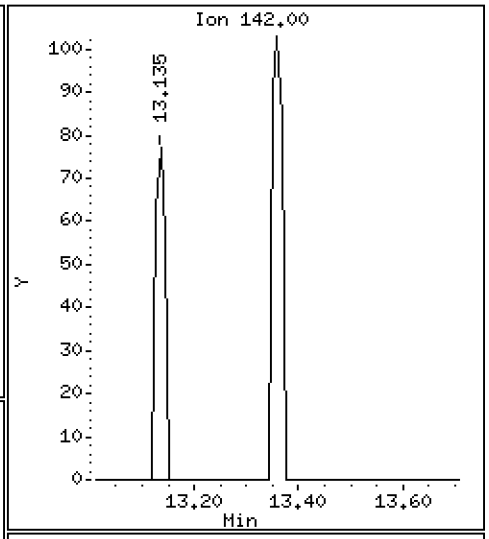
Column phase: ZB-5msi

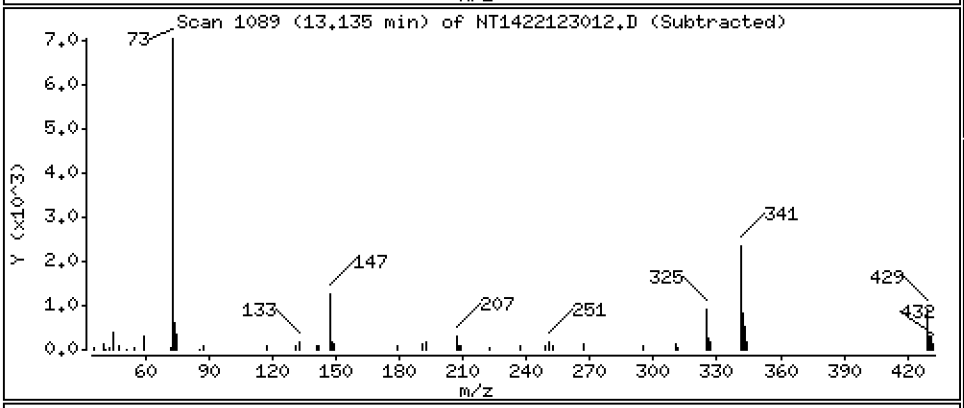
Column diameter: 0.25

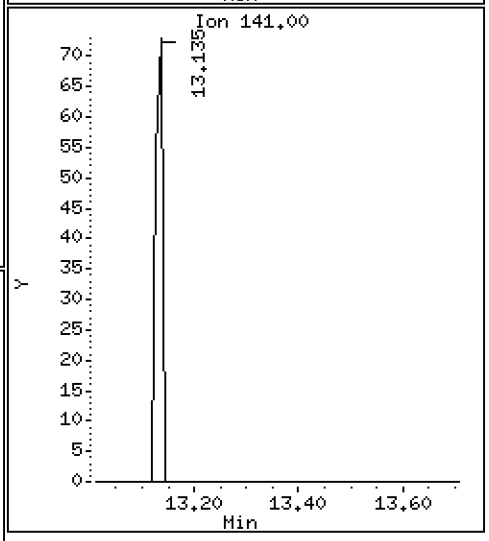
105 1-methylnaphthalene

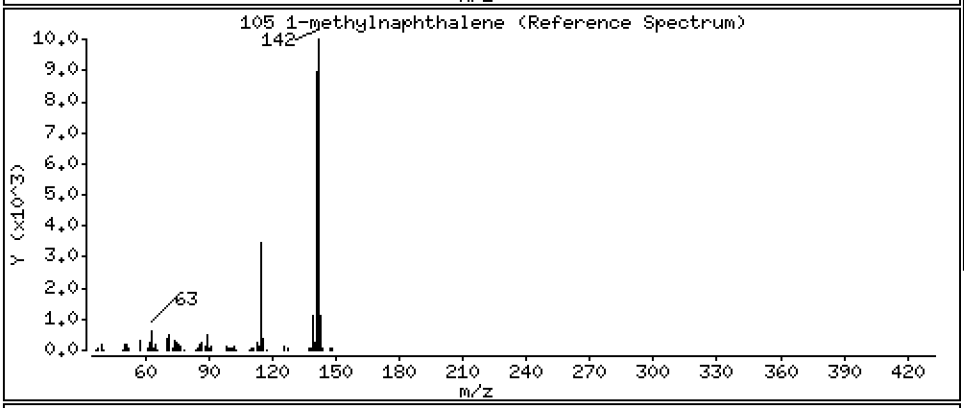
Concentration: 0.0008083 ug/mL

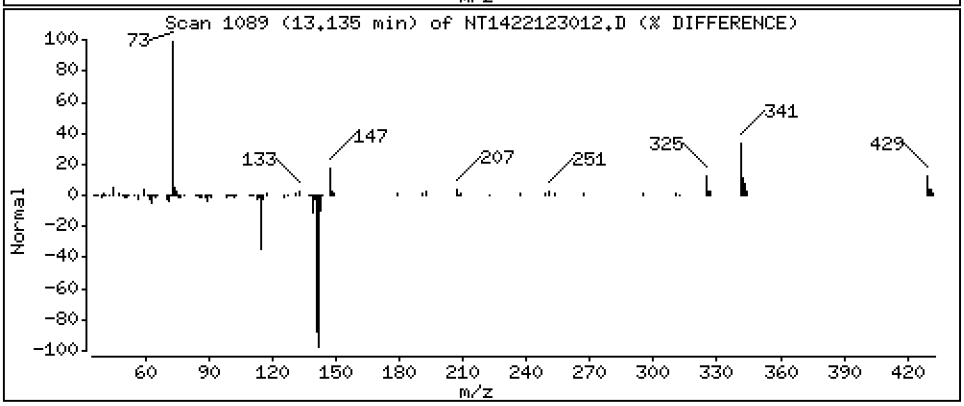












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230.b\NT1422123012.D
Lab Smp Id: SKL0355-ICB1
Inj Date : 30-DEC-2022 14:08 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-ICB1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Meth Date : 31-Dec-2022 11:40 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.934	6.935	(0.755)	370869	6.63357	6.634
$	2 Phenol-d5	99	8.526	8.526	(0.928)	467490	6.76620	6.766
	3 Phenol	94	8.541	8.542	(0.930)	202	0.00257	0.002573
$	5 2-Chlorophenol-d4	132	8.812	8.812	(0.960)	403584	6.95517	6.955
	4 Bis(2-Chloroethyl)ether	93	8.812	8.720	(0.960)	453	0.00838	0.008376
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	9.183	9.184	(1.000)	174509	4.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	9.548	9.548	(1.040)	176910	4.46069	4.461
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	9.548	9.448	(1.040)	1528	0.04372	0.04372
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	10.278	10.014	(1.119)	31797	0.91498	0.9150
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	10.278	10.278	(0.879)	248621	4.58647	4.586
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	11.688	11.689	(1.000)	641934	4.00000	
	28 Naphthalene	128	11.735	11.728	(1.004)	211	0.00134	0.001336
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	142	13.135	13.135	(1.124)	90	8e-004	0.0007767
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	13.916	13.917	(0.908)	519279	4.60432	4.604
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	Compound Not Detected.					
	40	Acenaphthylene	152	Compound Not Detected.					
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	15.325	15.325	(1.000)	335436	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	Compound Not Detected.					
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	Compound Not Detected.					
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	Compound Not Detected.					
	49	Fluorene	166	16.438	16.431	(1.073)	191	0.00132	0.001319
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	16.962	16.670	(0.923)	3405	0.03543	0.03543
$	55	2,4,6-Tribromophenol	330	16.962	16.963	(1.107)	92025	5.68327	5.683
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	18.369	18.369	(1.000)	560033	4.00000	
	60	Phenanthrene	178	Compound Not Detected.					
	61	Anthracene	178	Compound Not Detected.					
	62	Carbazole	167	Compound Not Detected.					
	63	Di-n-butylphthalate	149	Compound Not Detected.					
	64	Fluoranthene	202	Compound Not Detected.					
	65	Pyrene	202	21.502	21.224	(0.919)	1588	0.01055	0.01055
$	66	Terphenyl-d14	244	21.502	21.503	(0.919)	509644	4.77642	4.776
	67	Butylbenzylphthalate	149	Compound Not Detected.					
	68	Benzo(a)anthracene	228	Compound Not Detected.					
*	69	Chrysene-d12	240	23.407	23.407	(1.000)	444498	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	Compound Not Detected.					
	72	bis(2-Ethylhexyl)phthalate	149	23.384	23.446	(0.957)	678	0.01128	0.01128
*	134	Di-n-octylphthalate-d4	153	24.436	24.437	(1.000)	541261	4.00000	
	73	Di-n-octylphthalate	149	24.436	24.445	(1.000)	803	0.00618	0.006180
	74	Benzo(b)fluoranthene	252	Compound Not Detected.					
	75	Benzo(k)fluoranthene	252	Compound Not Detected.					
	76	Benzo(a)pyrene	252	26.093	25.978	(1.000)	1610	0.01457	0.01457
*	77	Perylene-d12	264	26.101	26.102	(1.000)	423100	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80	Benzo(g,h,i)perylene	276	Compound Not Detected.					
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	8.812	8.627	(0.960)	453	0.00593	0.005926
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	4.818	4.788	(0.525)	26	2e-004	0.0002125
	105	1-methylnaphthalene	142	13.135	13.360	(1.124)	90	8e-004	0.0008083
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123012.D
Lab Smp Id: SKL0355-ICB1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Misc Info:

Calibration Date: 30-DEC-2022
Calibration Time: 08:06
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	151013	75507	302026	174509	15.56
27 Naphthalene-d8	553510	276755	1107020	641934	15.98
42 Acenaphthene-d10	305411	152706	610822	335436	9.83
59 Phenanthrene-d10	491708	245854	983416	560033	13.90
69 Chrysene-d12	424740	212370	849480	444498	4.65
134 Di-n-octylphthala	684951	342476	1369902	541261	-20.98
77 Perylene-d12	395150	197575	790300	423100	7.07

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.18	8.68	9.68	9.18	-0.00
27 Naphthalene-d8	11.69	11.19	12.19	11.69	-0.00
42 Acenaphthene-d10	15.33	14.83	15.83	15.33	-0.00
59 Phenanthrene-d10	18.38	17.88	18.88	18.37	-0.04
69 Chrysene-d12	23.42	22.92	23.92	23.41	-0.03
134 Di-n-octylphthala	24.44	23.94	24.94	24.44	-0.00
77 Perylene-d12	26.10	25.60	26.60	26.10	-0.00

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

REVIEW SUMMARY FOR FILE - NT1422123012.D

Lab ID: SKL0355-ICB1
nt14.i, 20221230.b\ABN.m,   30-DEC-2022 14:08

RT	CO-ELUTION COMPOUNDS
13.135	1-methylnaphthalene and 2-Methylnaphthalene

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.960	0.949	0.0101	Bis(2-Chloroethyl)ether
1.040	1.029	0.0110	Benzyl alcohol
1.119	1.090	0.0287	N-Nitroso-di-n-propylamine
0.923	0.907	0.0160	N-Nitrosodiphenylamine
0.919	0.907	0.0119	Pyrene
0.960	0.939	0.0202	Aniline
1.124	1.143	-0.0192	1-methylnaphthalene

RRT check based on Ccal File: NT1422123007.D

On Column LOD for nt14.i, 20221230.b\ABN.m, ICAL.sub = 0.0000

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

LOW-CONCENTRATION CALIBRATION VERIFICATION

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00066
Laboratory ID: SKL0355-LCV1
Sequence: SKL0355
Standard ID: K011105

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Phenol	0.20000	0.2	14.7	50.00
bis(2-chloroethyl) ether	0.20000	0.2	19.5	50.00
2-Chlorophenol	0.20000	0.2	17.8	50.00
1,3-Dichlorobenzene	0.20000	0.2	22.8	50.00
1,4-Dichlorobenzene	0.20000	0.2	24.3	50.00
1,2-Dichlorobenzene	0.20000	0.2	21.6	50.00
Benzyl Alcohol	0.20000	0.2	-18.9	50.00
2,2'-Oxybis(1-chloropropane)	0.20000	0.2	11.8	50.00
2-Methylphenol	0.20000	0.2	17.1	50.00
Hexachloroethane	0.20000	0.2	-12.3	50.00
N-Nitroso-di-n-Propylamine	0.20000	0.2	10.4	50.00
4-Methylphenol	0.20000	0.2	6.0	50.00
Nitrobenzene	0.20000	0.2	12.7	50.00
Isophorone	0.20000	0.2	-1.7	50.00
2-Nitrophenol	0.20000	0.2	1.4	50.00
2,4-Dimethylphenol	0.40000	0.5	13.9	50.00
Bis(2-Chloroethoxy)methane	0.20000	0.2	17.9	50.00
2,4-Dichlorophenol	0.40000	0.4	3.3	50.00
1,2,4-Trichlorobenzene	0.20000	0.2	21.1	50.00
Naphthalene	0.20000	0.2	18.9	50.00
Benzoic acid	0.80000	0.2	-78.2	50.00
4-Chloroaniline	0.40000	0.4	1.5	50.00
Hexachlorobutadiene	0.20000	0.2	11.2	50.00
4-Chloro-3-Methylphenol	0.40000	0.4	0.3	50.00
2-Methylnaphthalene	0.20000	0.2	11.5	50.00
Hexachlorocyclopentadiene	0.40000	0.02	-94.6	50.00
2,4,6-Trichlorophenol	0.40000	0.4	-6.3	50.00
2,4,5-Trichlorophenol	0.40000	0.4	7.9	50.00
2-Chloronaphthalene	0.20000	0.2	18.6	50.00

LOW-CONCENTRATION CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00066
Laboratory ID: SKL0355-LCV1
Sequence: SKL0355
Standard ID: K011105

2-Nitroaniline	0.40000	0.4	-0.7	50.00
Acenaphthylene	0.20000	0.2	12.8	50.00
Dimethylphthalate	0.20000	0.2	11.6	50.00
2,6-Dinitrotoluene	0.40000	0.4	-12.1	50.00
Acenaphthene	0.20000	0.2	17.6	50.00
3-Nitroaniline	0.40000	0.3	-15.7	50.00
2,4-Dinitrophenol	0.80000	0.005	-99.3	50.00
Dibenzofuran	0.20000	0.2	20.2	50.00
4-Nitrophenol	0.40000	0.2	-40.6	50.00
2,4-Dinitrotoluene	0.40000	0.3	-24.5	50.00
Fluorene	0.20000	0.2	13.7	50.00
4-Chlorophenylphenyl ether	0.20000	0.2	6.9	50.00
Diethyl phthalate	0.20000	0.2	13.9	50.00
4-Nitroaniline	0.40000	0.3	-21.8	50.00
4,6-Dinitro-2-methylphenol	0.80000	0.2	-74.8	50.00
N-Nitrosodiphenylamine	0.20000	0.2	21.1	50.00
4-Bromophenyl phenyl ether	0.20000	0.2	13.7	50.00
Hexachlorobenzene	0.20000	0.2	14.5	50.00
Pentachlorophenol	0.40000	0.08	-80.8	50.00
Phenanthrene	0.20000	0.2	20.7	50.00
Anthracene	0.20000	0.2	9.1	50.00
Carbazole	0.20000	0.2	8.7	50.00
Di-n-Butylphthalate	0.20000	0.2	-4.7	50.00
Fluoranthene	0.20000	0.2	15.4	50.00
Pyrene	0.20000	0.2	10.6	50.00
Butylbenzylphthalate	0.20000	0.2	4.0	50.00
Benzo(a)anthracene	0.20000	0.2	20.8	50.00
3,3'-Dichlorobenzidine	0.60000	0.7	16.0	50.00
Chrysene	0.20000	0.2	20.7	50.00
bis(2-Ethylhexyl)phthalate	0.20000	0.2	9.3	50.00
Di-n-Octylphthalate	0.20000	0.2	21.0	50.00

LOW-CONCENTRATION CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00066
Laboratory ID: SKL0355-LCV1
Sequence: SKL0355
Standard ID: K011105

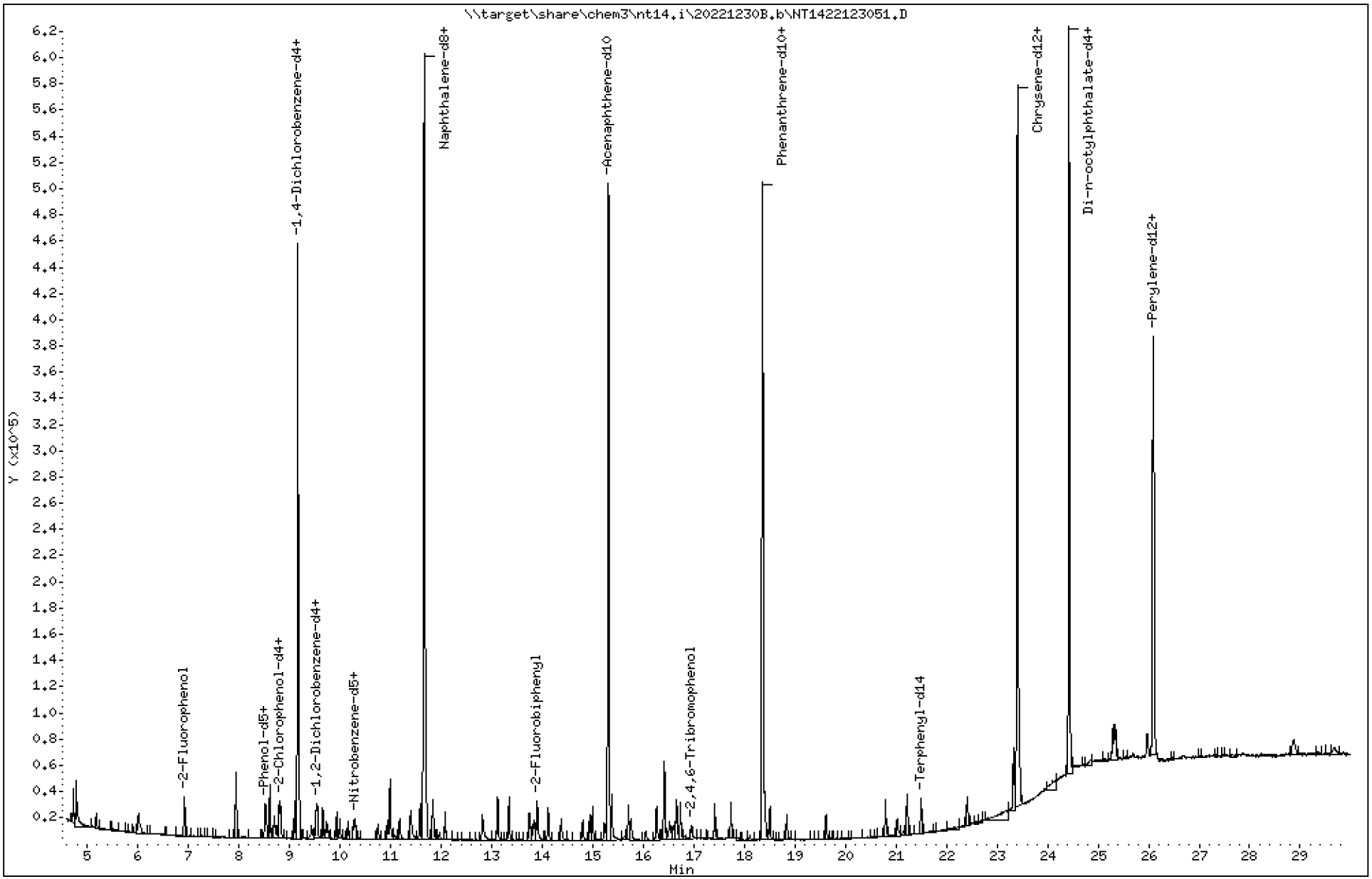
Benzofluoranthenes, Total	0.40000	0.5	27.2	50.00
Benzo(a)pyrene	0.20000	0.2	20.8	50.00
Indeno(1,2,3-cd)pyrene	0.20000	0.1	-28.7	50.00
Dibenzo(a,h)anthracene	0.20000	0.1	-25.2	50.00
Benzo(g,h,i)perylene	0.20000	0.1	-38.5	50.00
1-Methylnaphthalene	0.20000	0.2	15.9	50.00
2-Fluorophenol	0.30000	0.344	14.8	50.00
Phenol-d5	0.30000	0.307	2.4	50.00
2-Chlorophenol-d4	0.30000	0.332	10.7	50.00
1,2-Dichlorobenzene-d4	0.20000	0.241	20.5	50.00
Nitrobenzene-d5	0.20000	0.214	7.0	50.00
2-Fluorobiphenyl	0.20000	0.223	11.6	50.00
2,4,6-Tribromophenol	0.30000	0.212	-29.4	50.00
p-Terphenyl-d14	0.20000	0.218	8.8	50.00

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D
Date : 31-DEC-2022 14:29
Client ID:
Sample Info: SKL0355-LCV1

Instrument: nt14.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

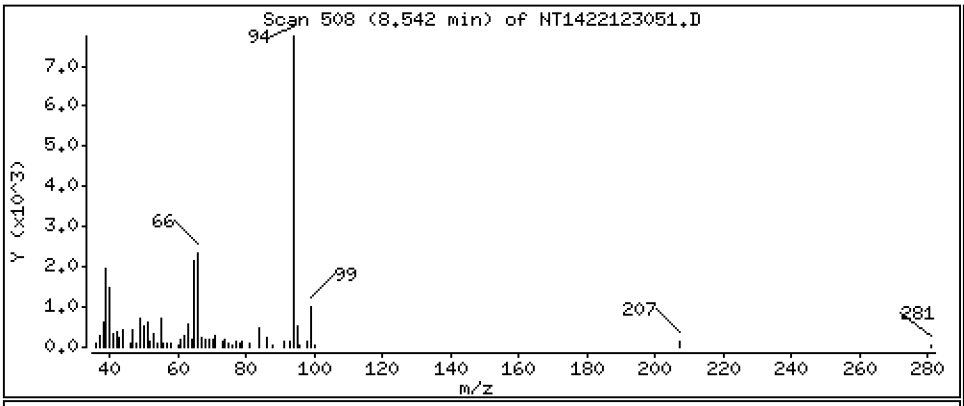
Operator: VTS

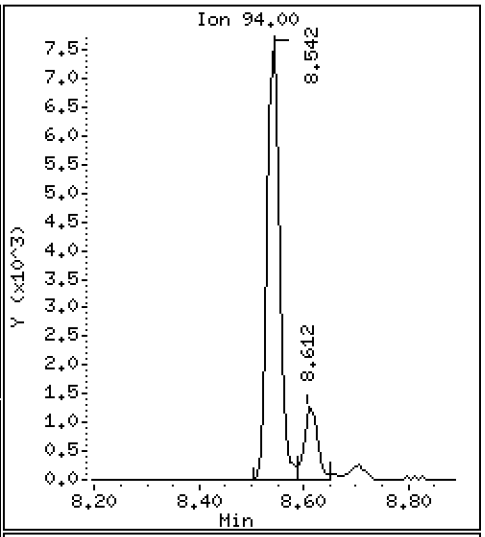
Column phase: ZB-5msi

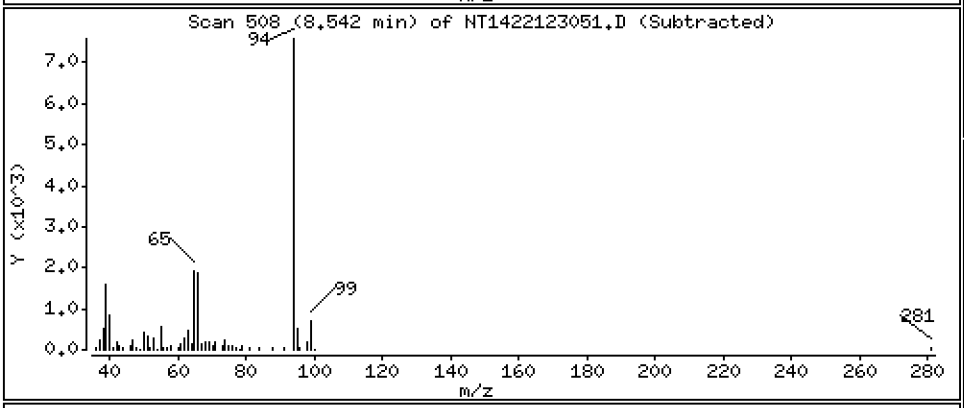
Column diameter: 0.25

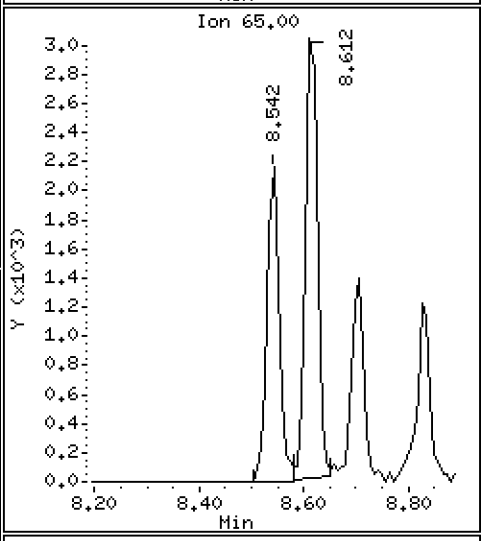
3 Phenol

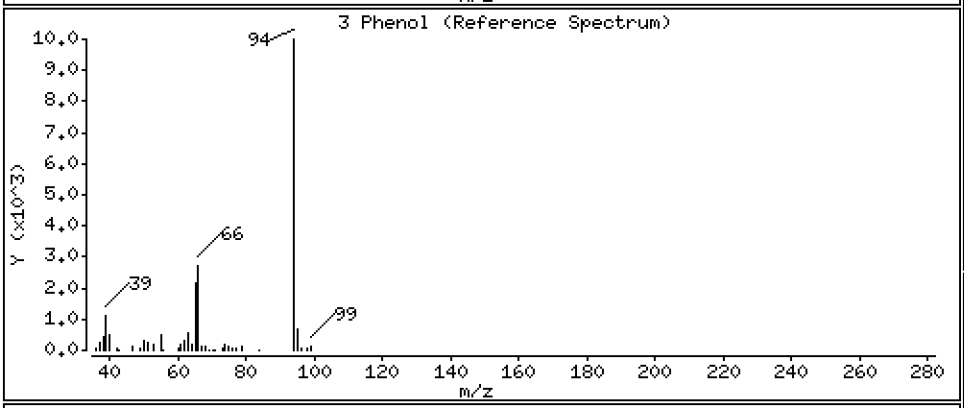
Concentration: 0.2294 ug/mL

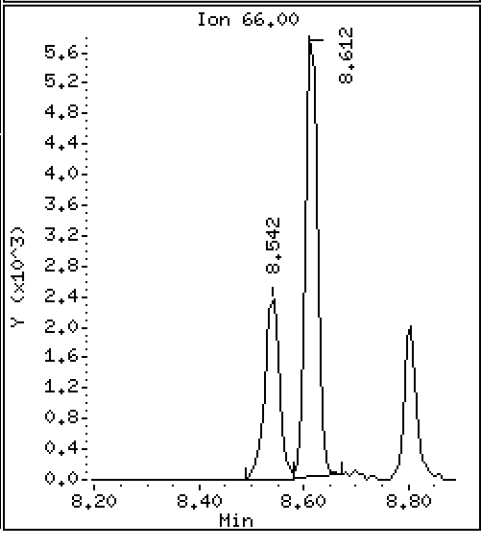


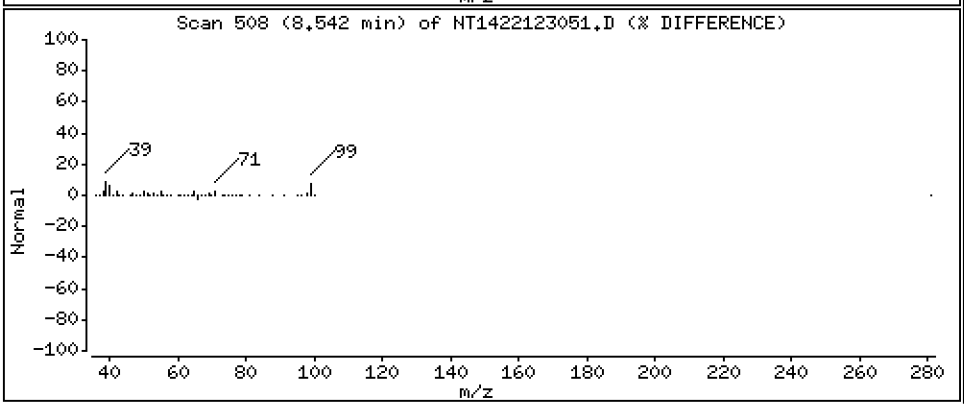












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

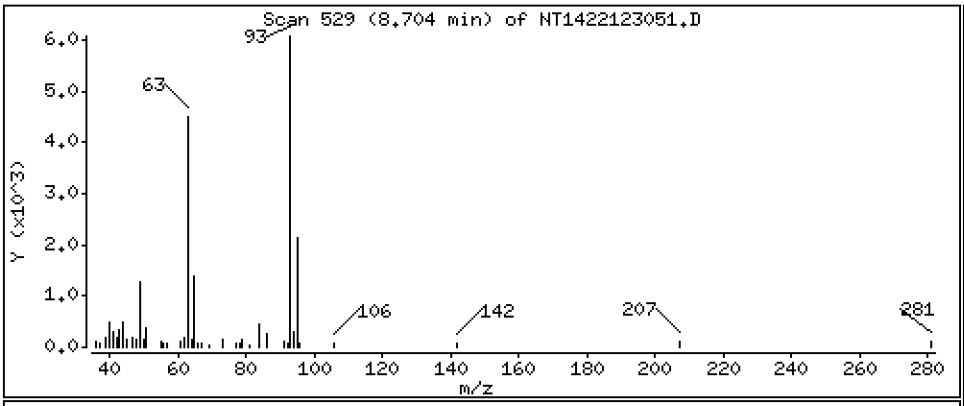
Operator: VTS

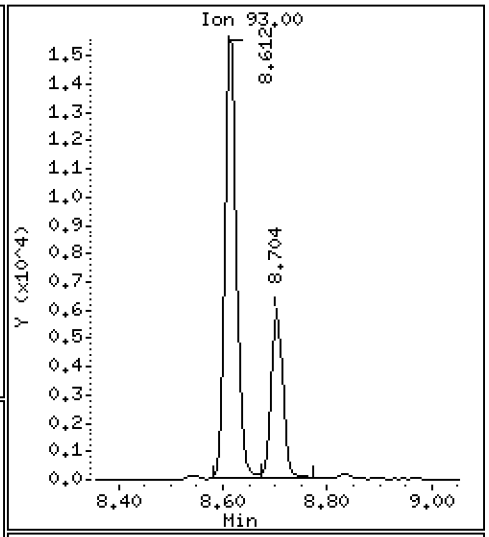
Column phase: ZB-5msi

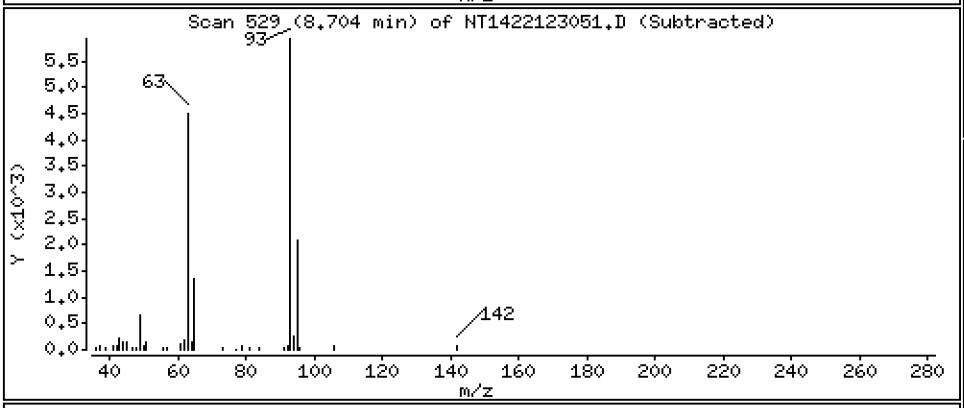
Column diameter: 0.25

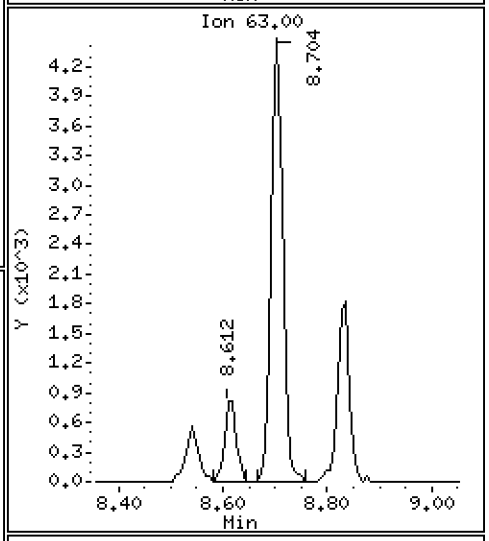
4 Bis(2-Chloroethyl)ether

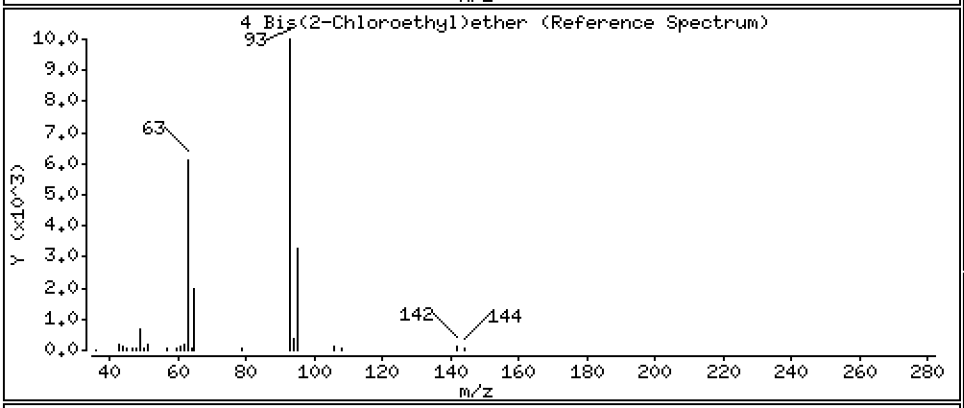
Concentration: 0.2390 ug/mL

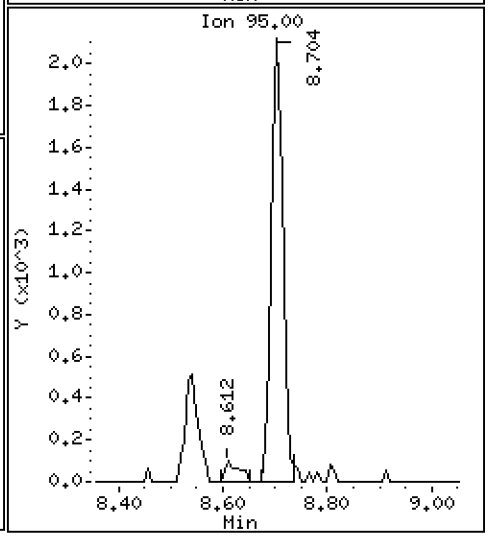


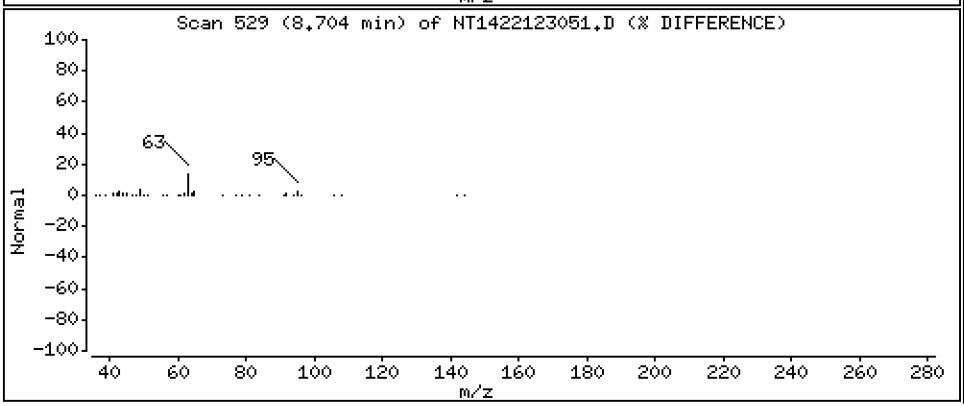












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

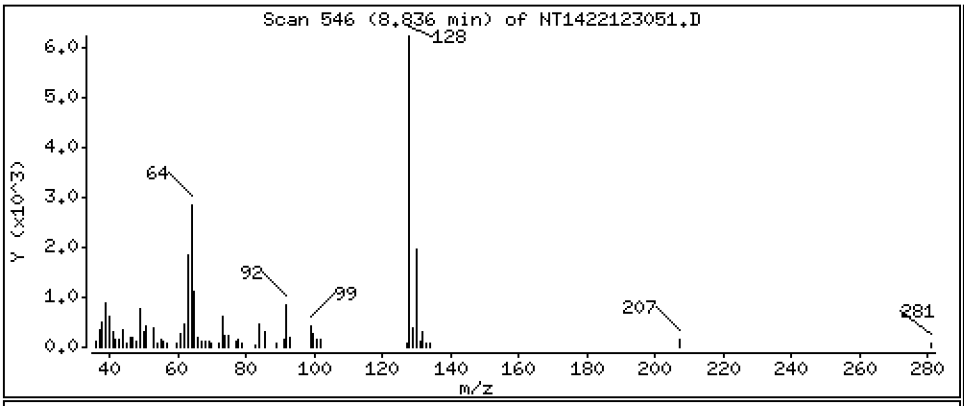
Operator: VTS

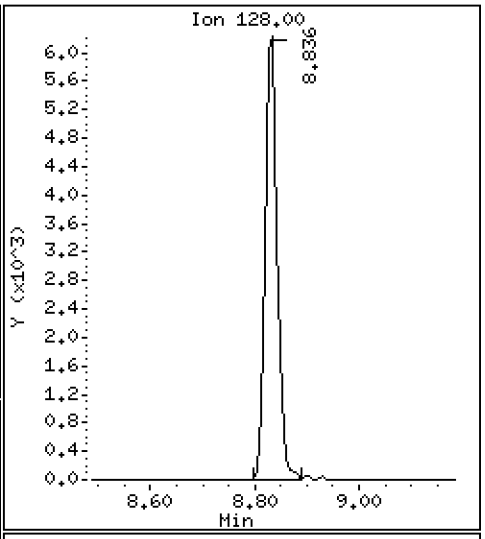
Column phase: ZB-5msi

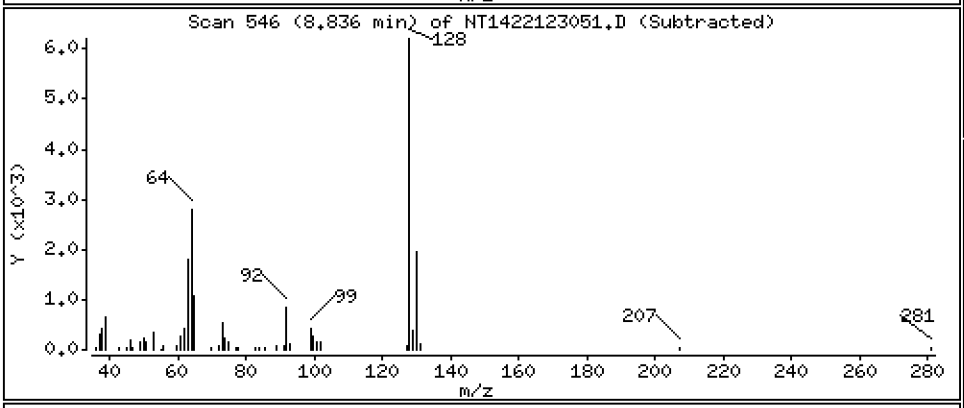
Column diameter: 0.25

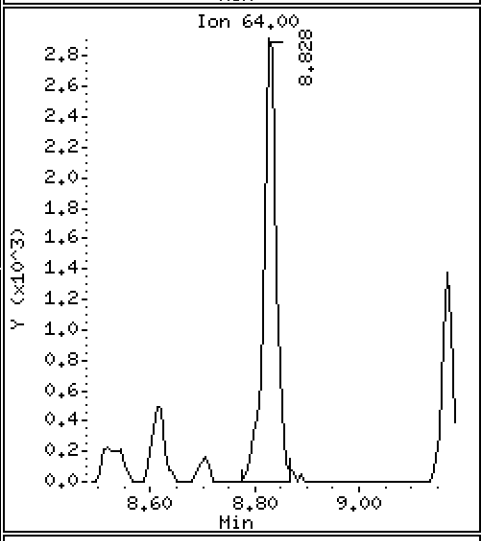
6 2-Chlorophenol

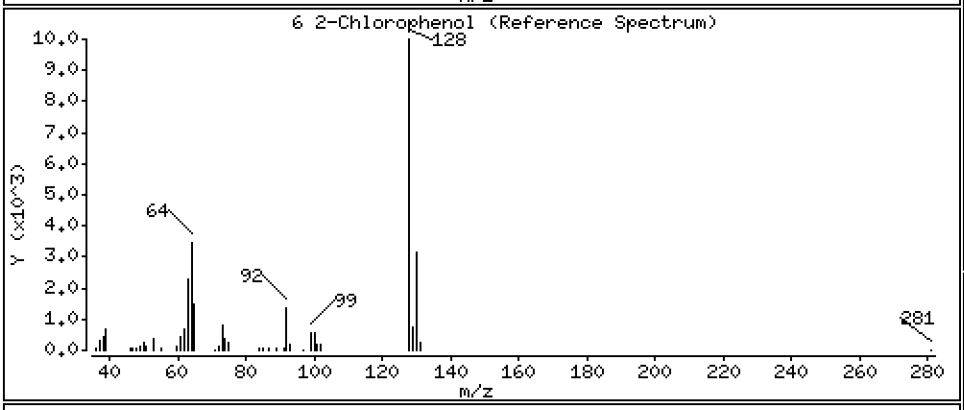
Concentration: 0.2355 ug/mL

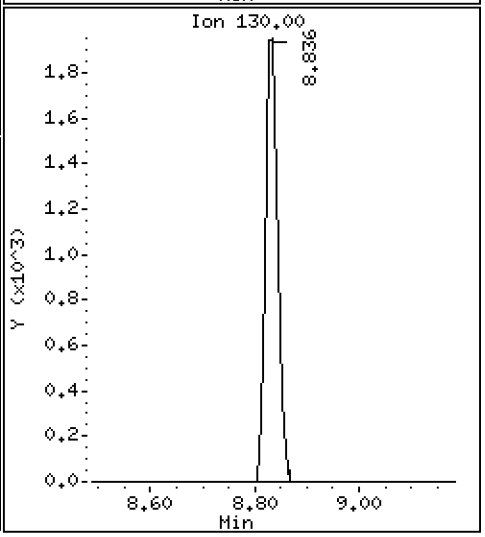


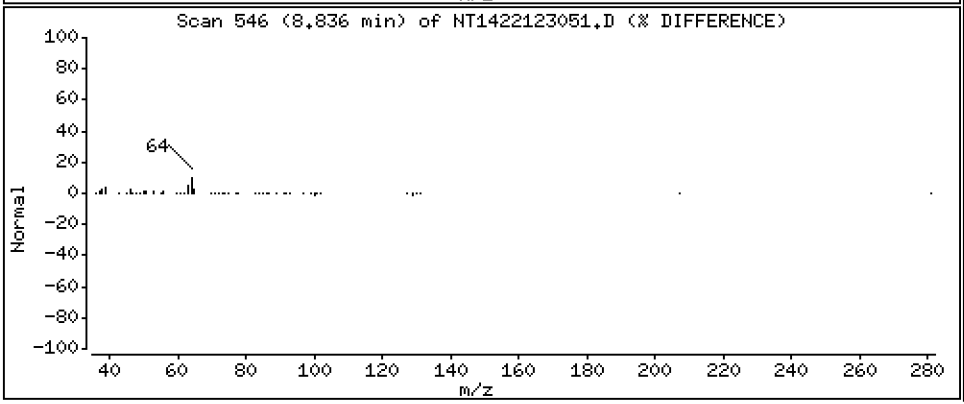












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

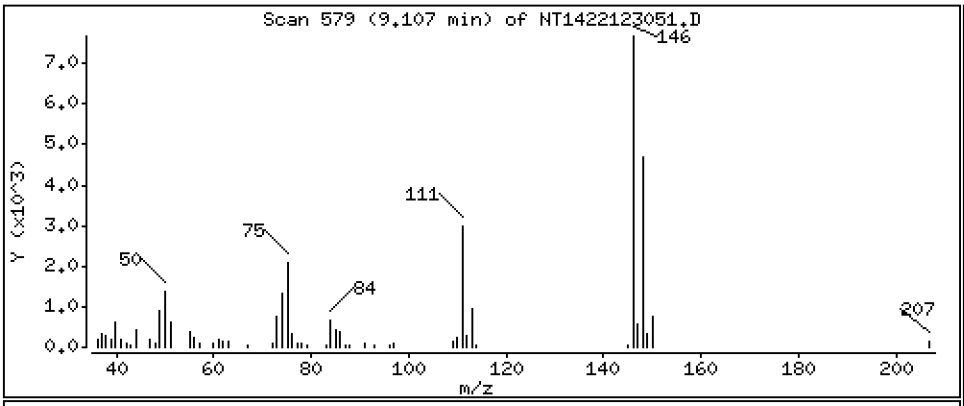
Operator: VTS

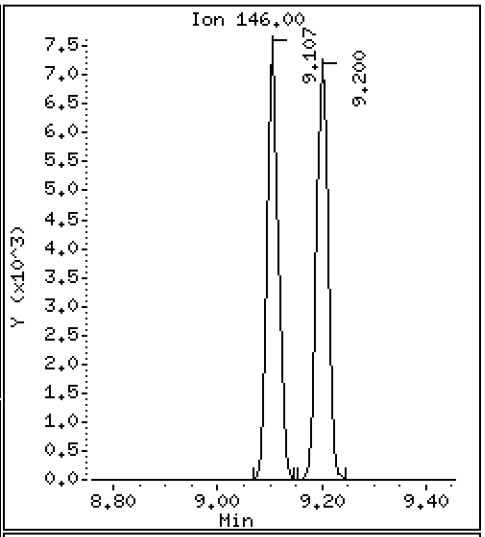
Column phase: ZB-5msi

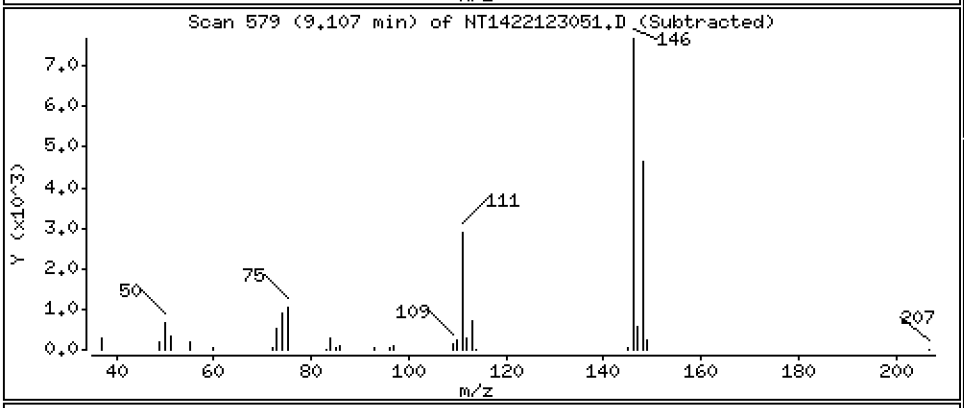
Column diameter: 0.25

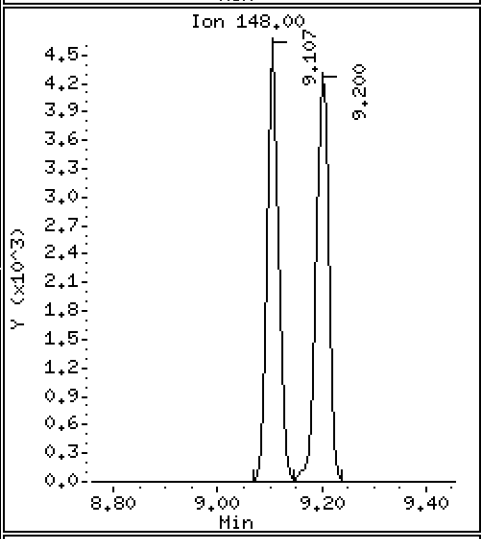
7 1,3-Dichlorobenzene

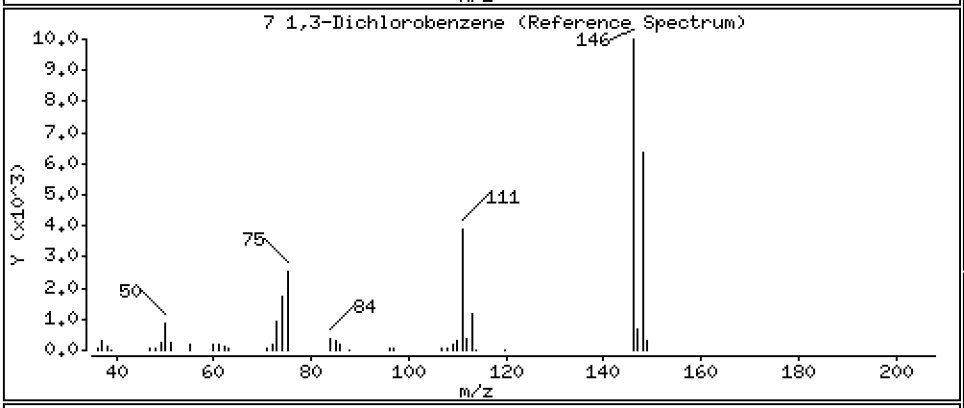
Concentration: 0.2457 ug/mL

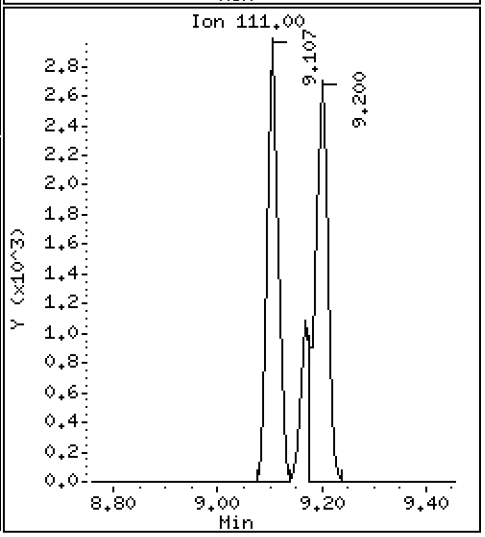


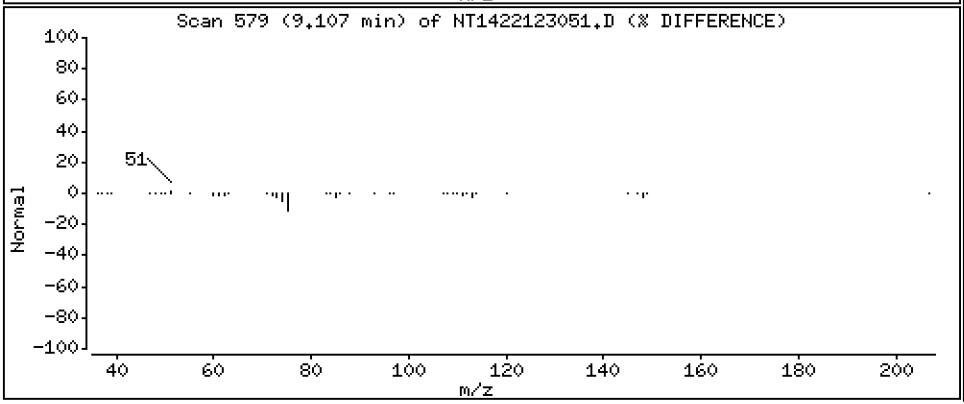












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

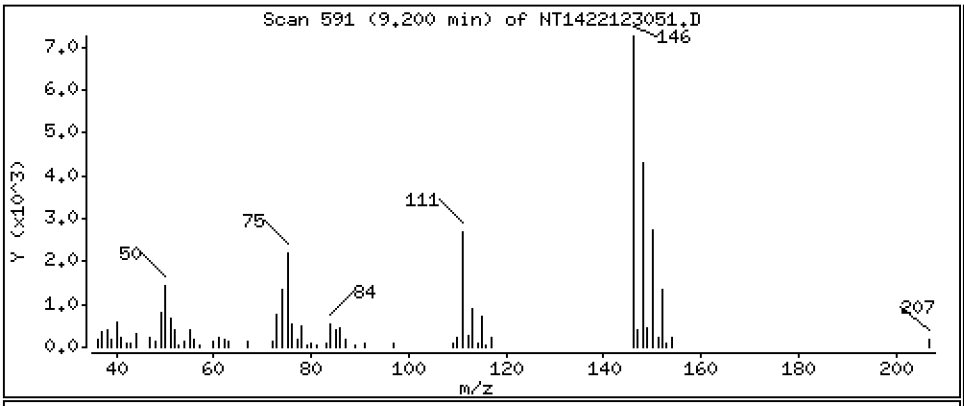
Operator: VTS

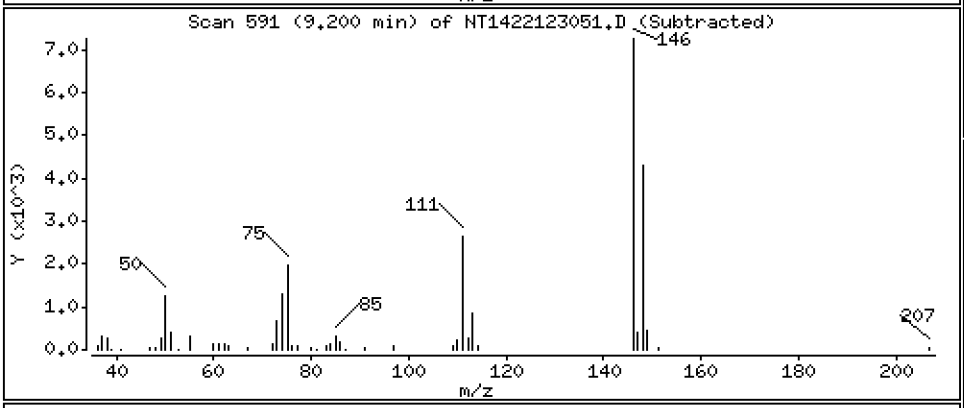
Column phase: ZB-5msi

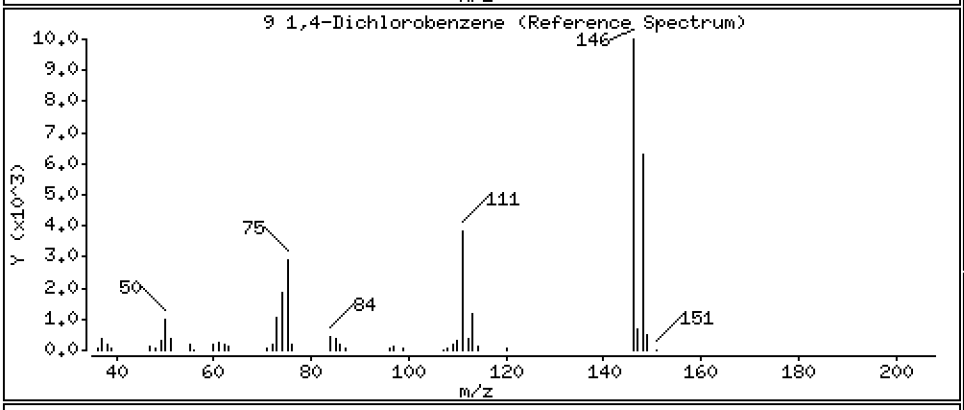
Column diameter: 0.25

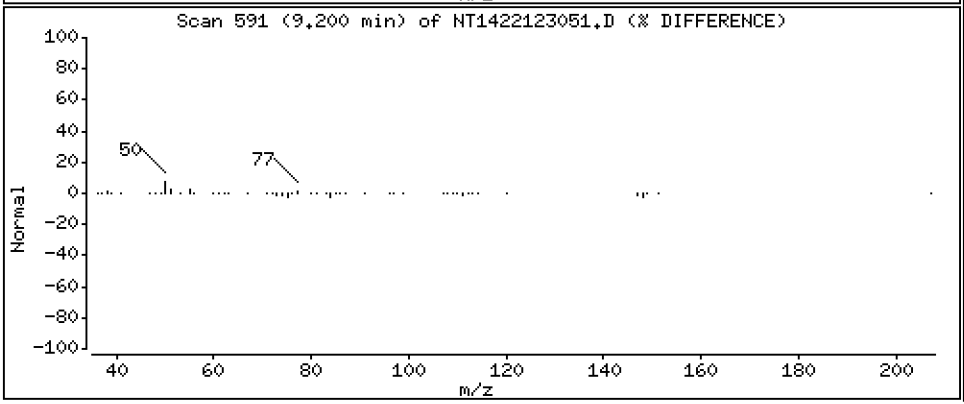
9 1,4-Dichlorobenzene

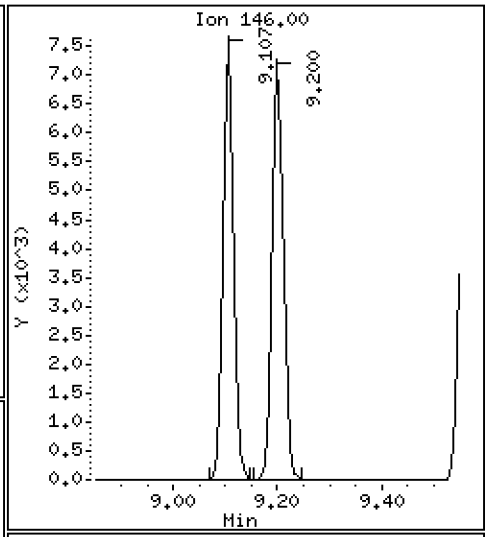
Concentration: 0.2487 ug/mL

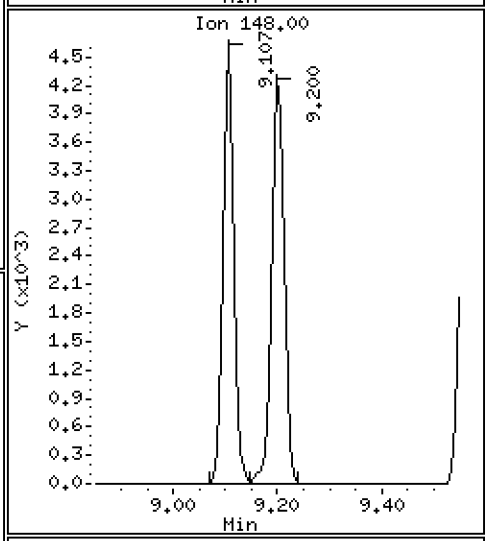


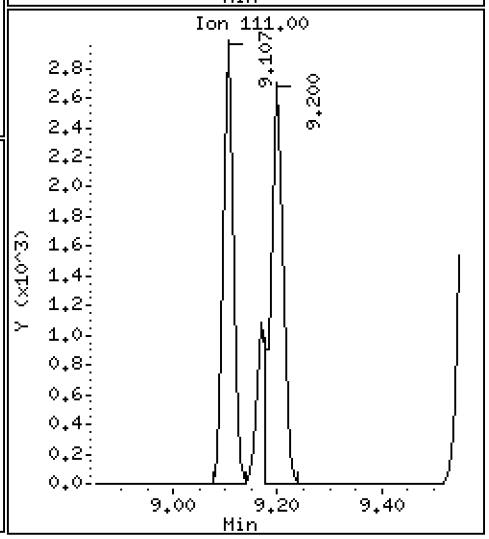












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

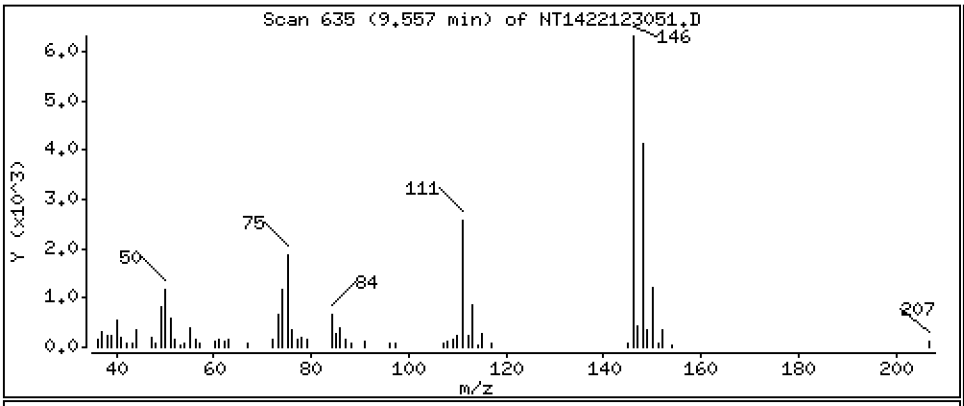
Operator: VTS

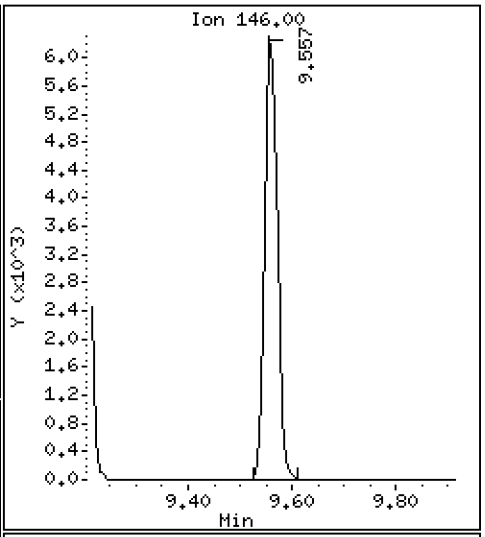
Column phase: ZB-5msi

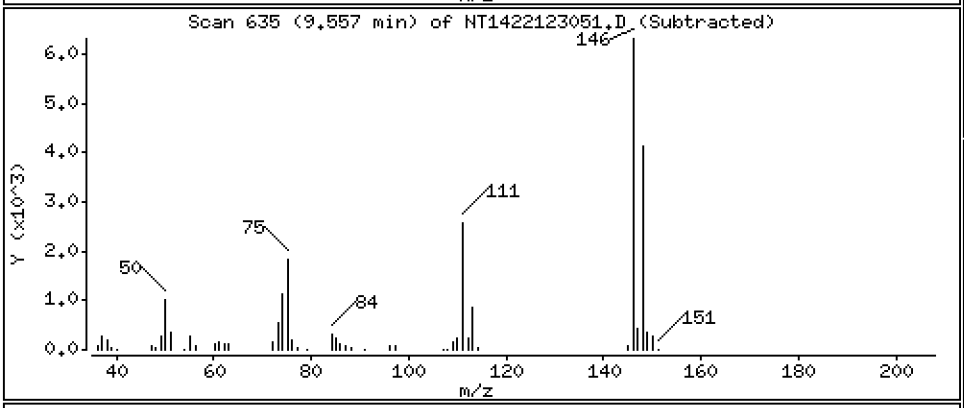
Column diameter: 0.25

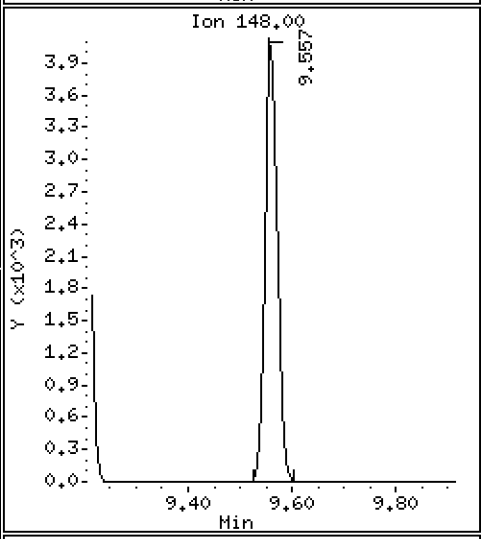
12 1,2-Dichlorobenzene

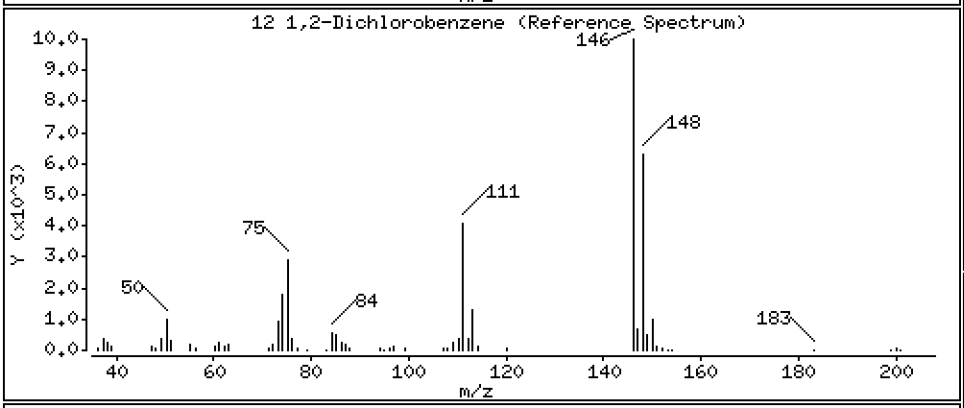
Concentration: 0.2432 ug/mL

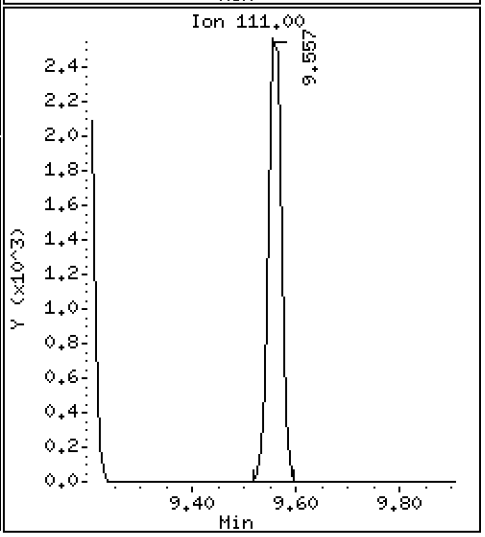


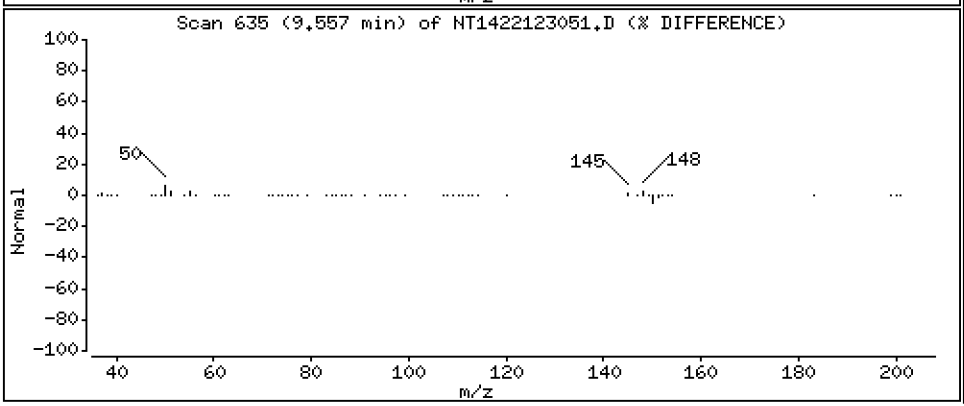












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

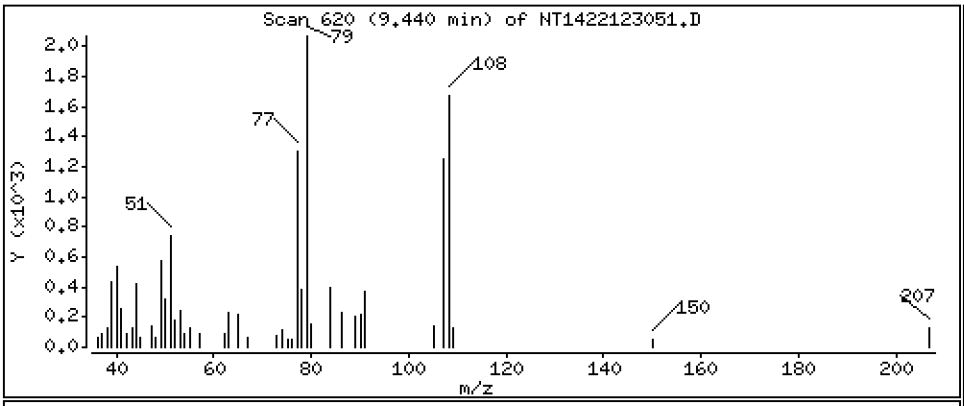
Operator: VTS

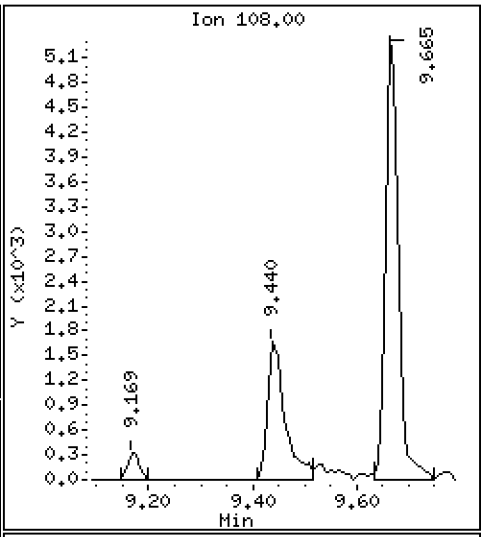
Column phase: ZB-5msi

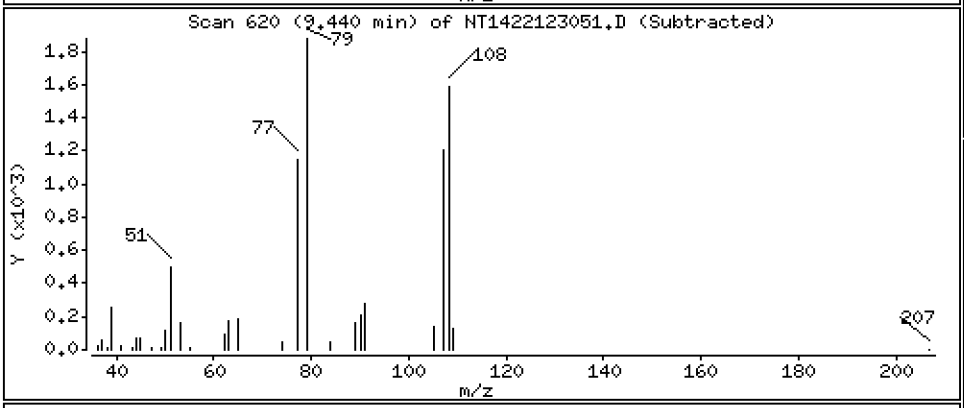
Column diameter: 0.25

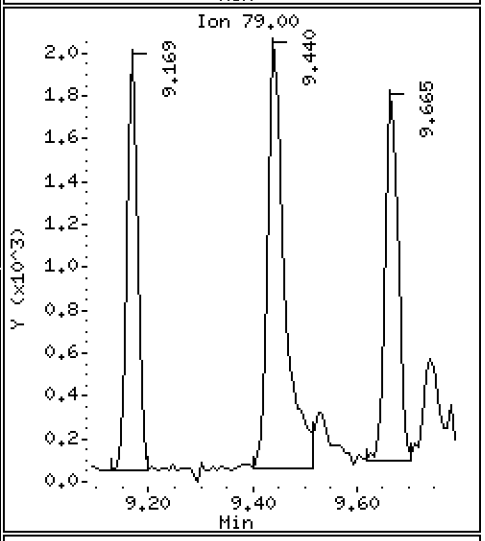
11 Benzyl alcohol

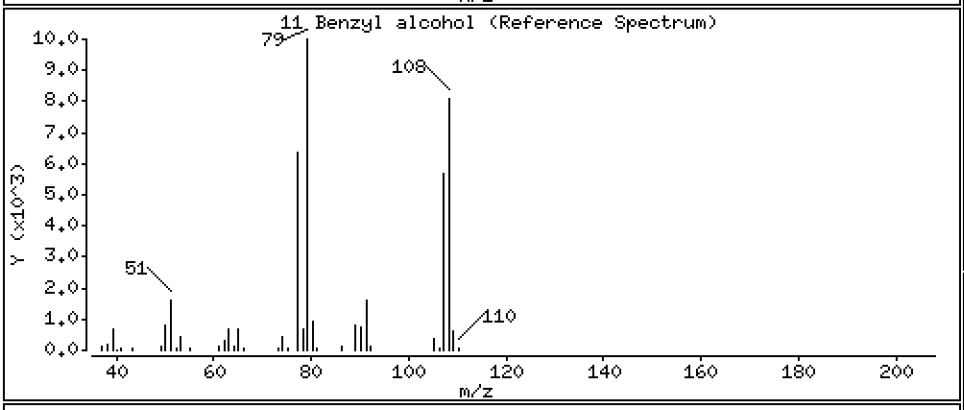
Concentration: 0.1623 ug/mL

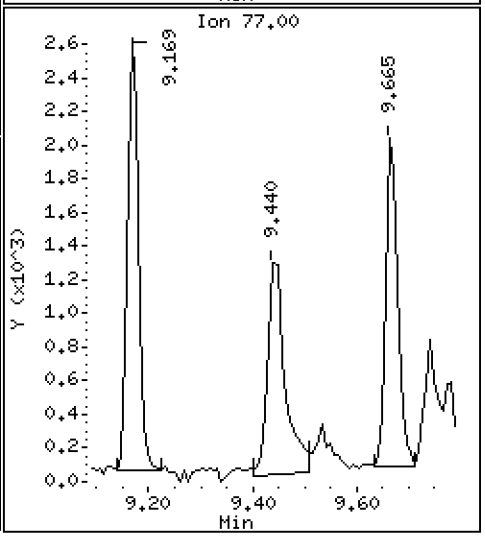


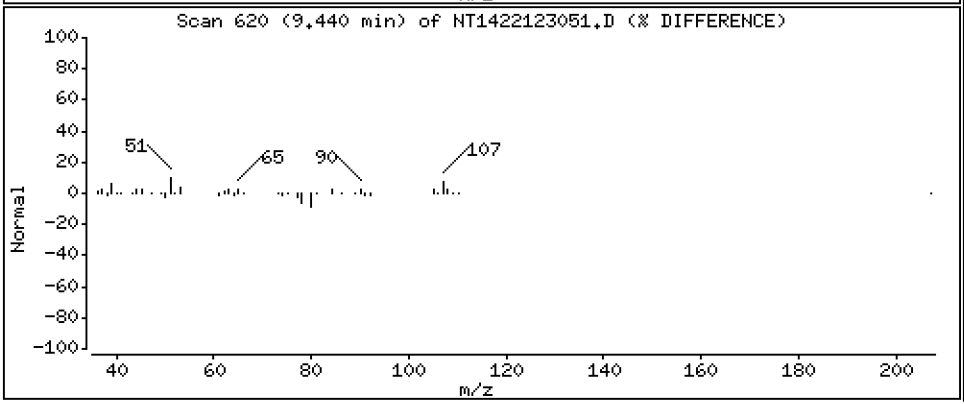












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

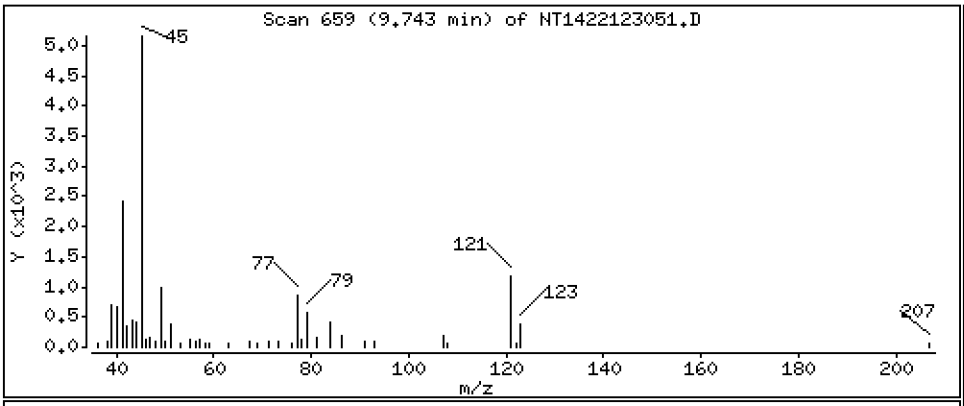
Operator: VTS

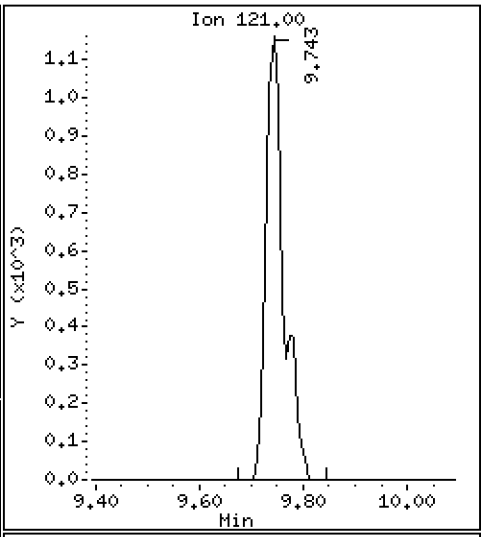
Column phase: ZB-5msi

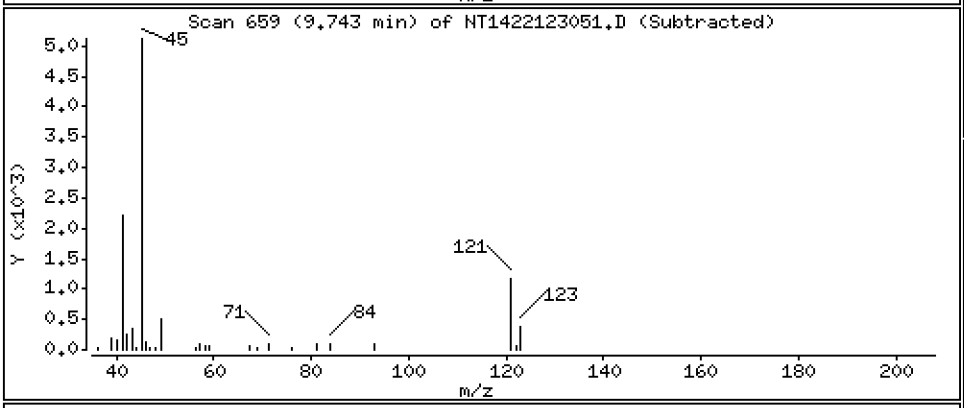
Column diameter: 0.25

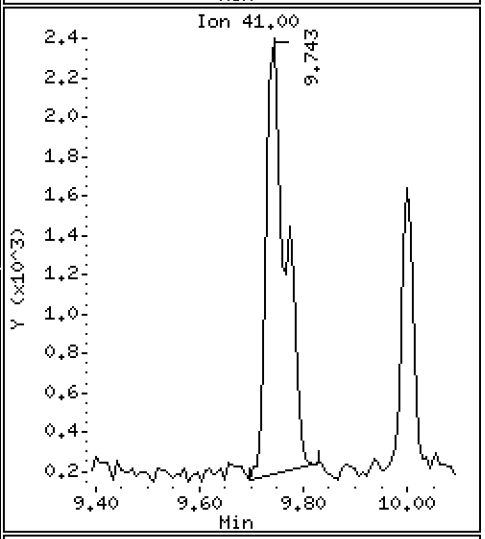
14 2,2'-oxybis(1-Chloropropane)

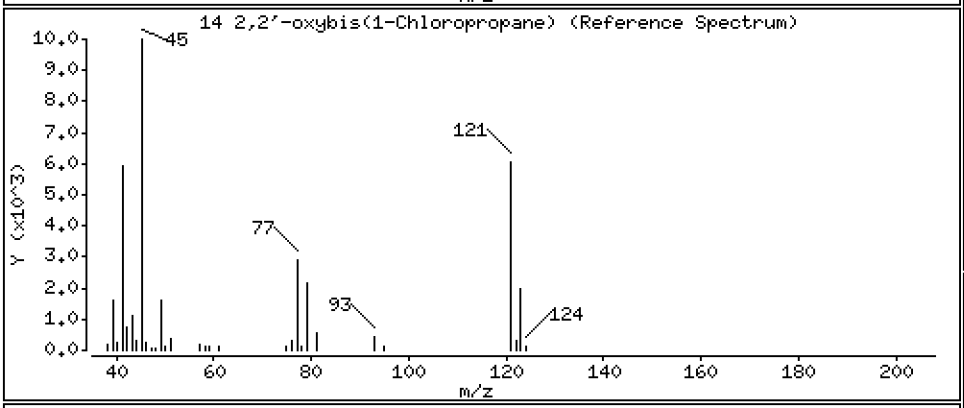
Concentration: 0.2236 ug/mL

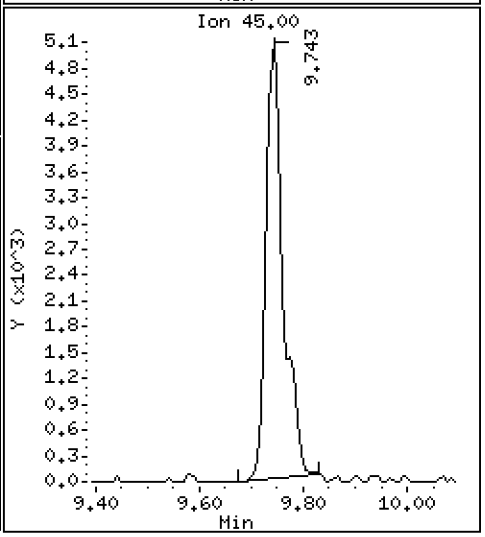


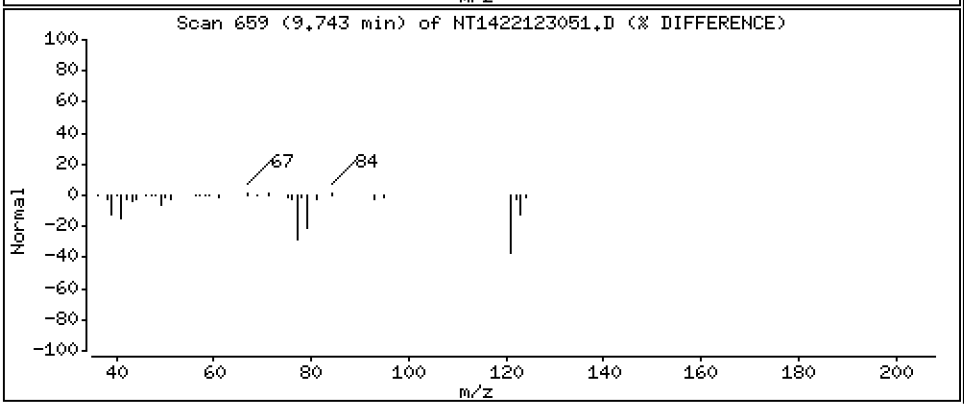












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

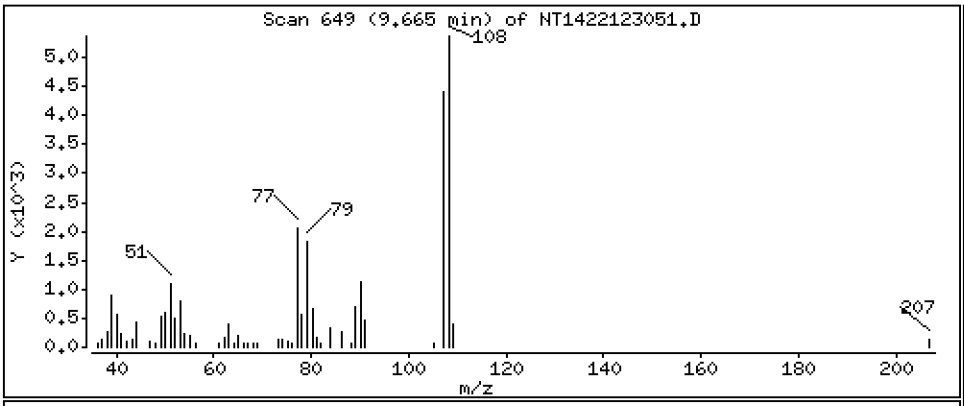
Operator: VTS

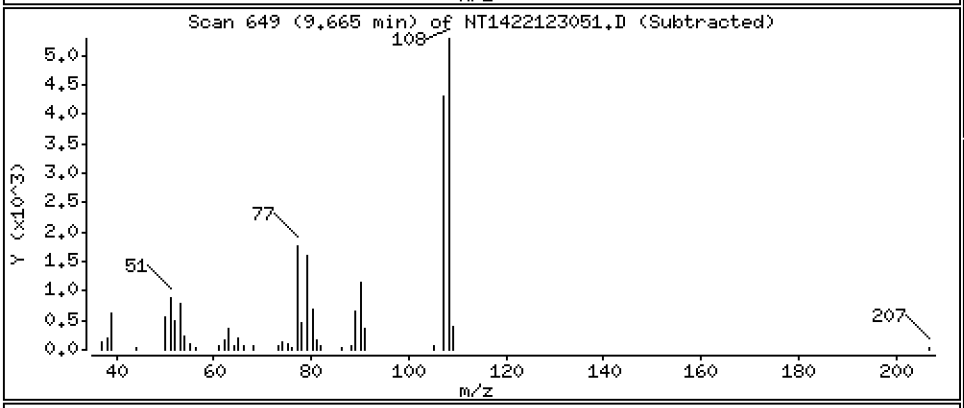
Column phase: ZB-5msi

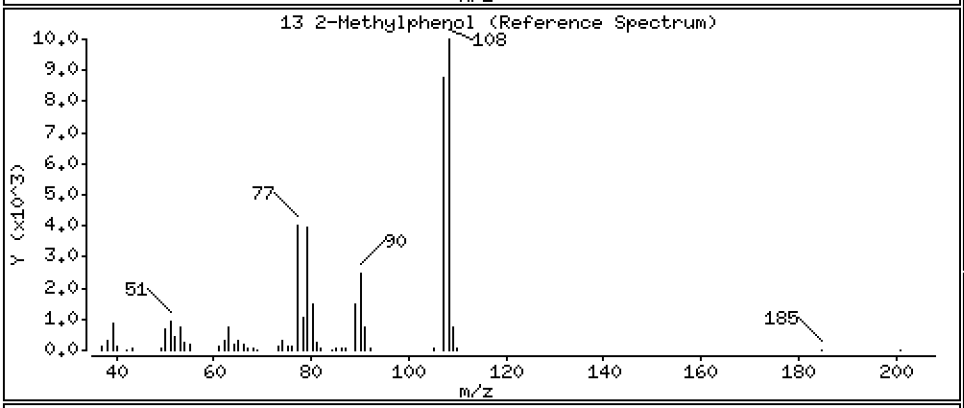
Column diameter: 0.25

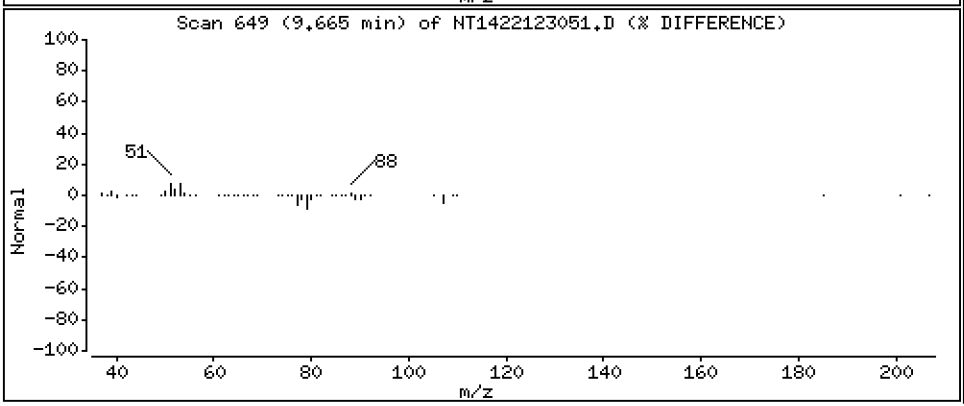
13 2-Methylphenol

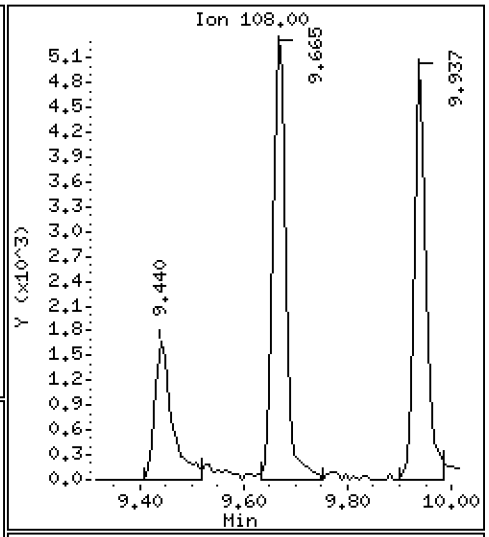
Concentration: 0.2341 ug/mL

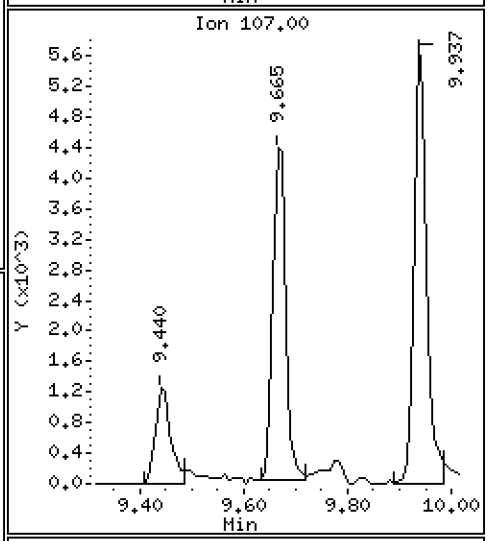


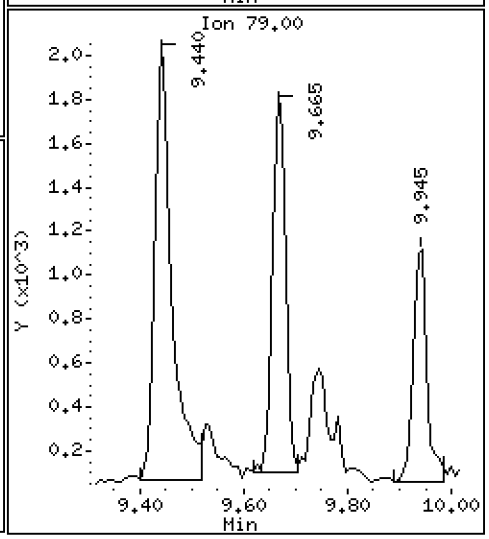












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

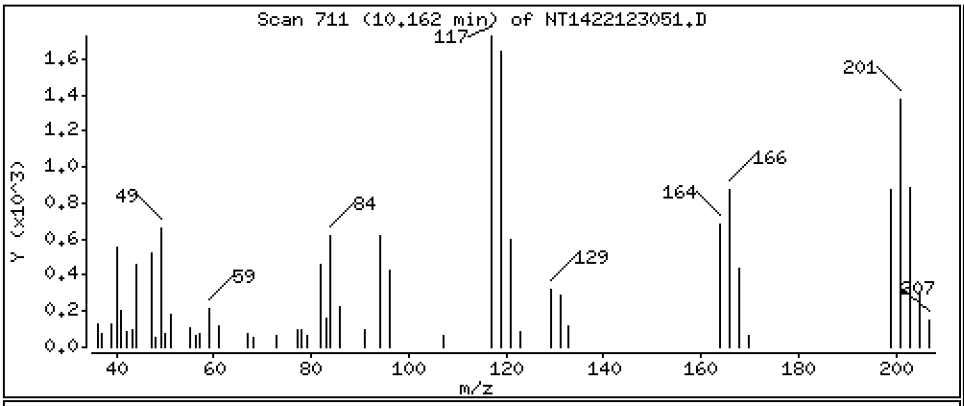
Operator: VTS

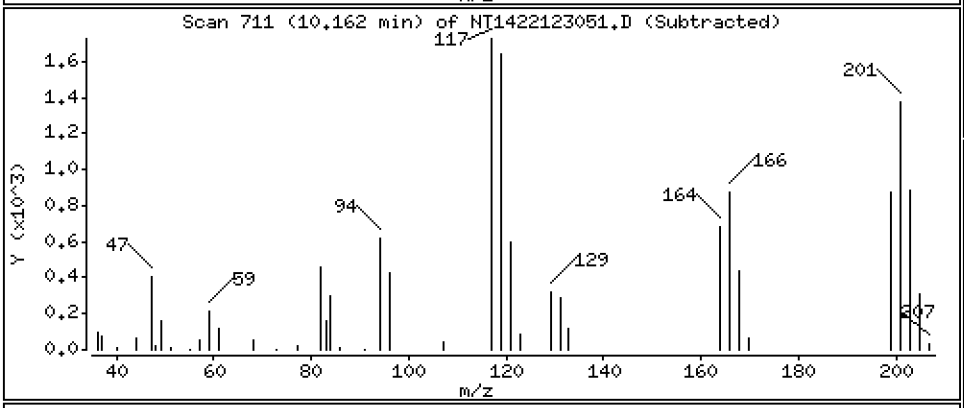
Column phase: ZB-5msi

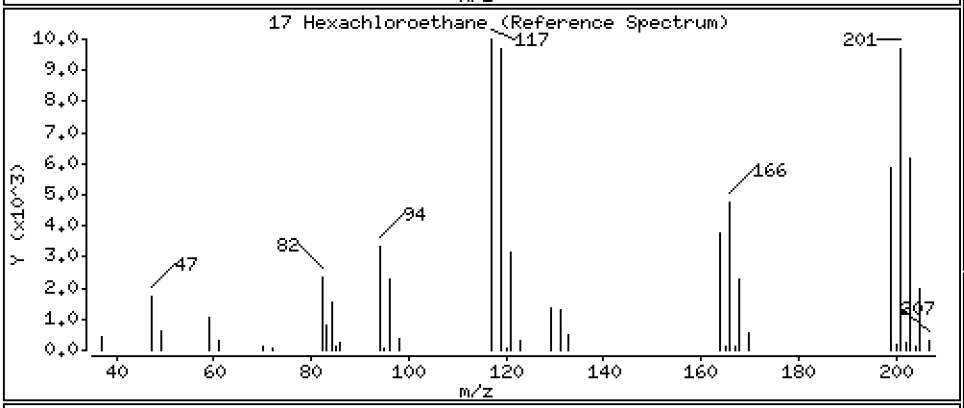
Column diameter: 0.25

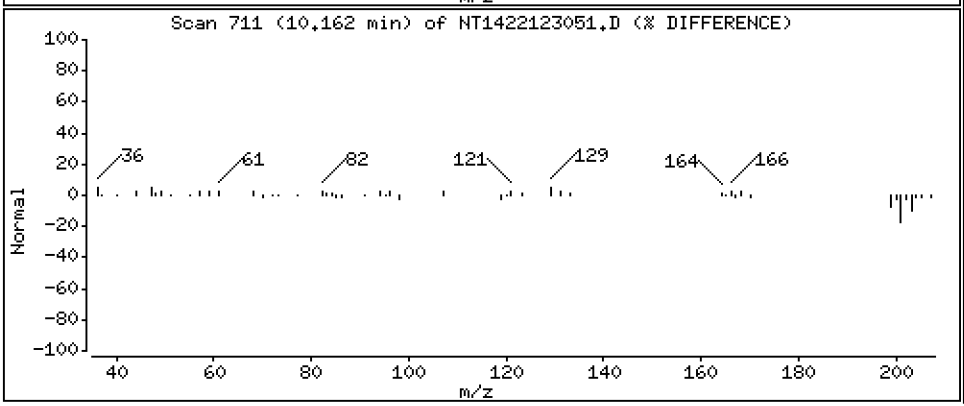
17 Hexachloroethane

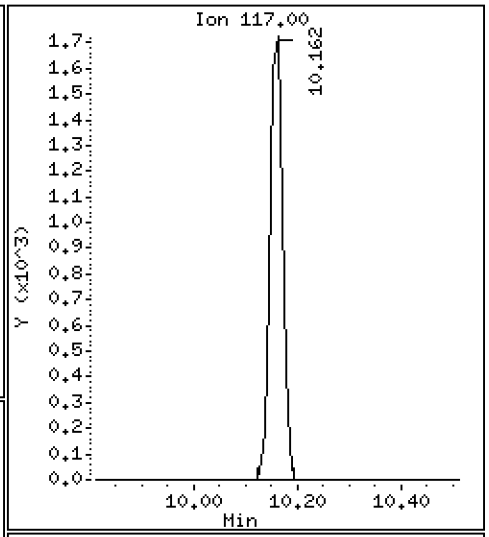
Concentration: 0.1755 ug/mL

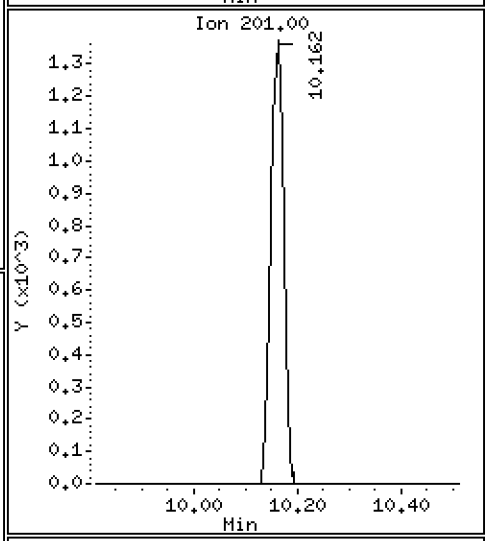


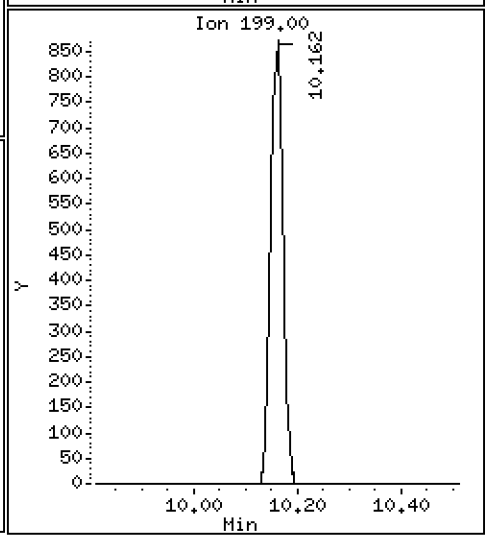












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

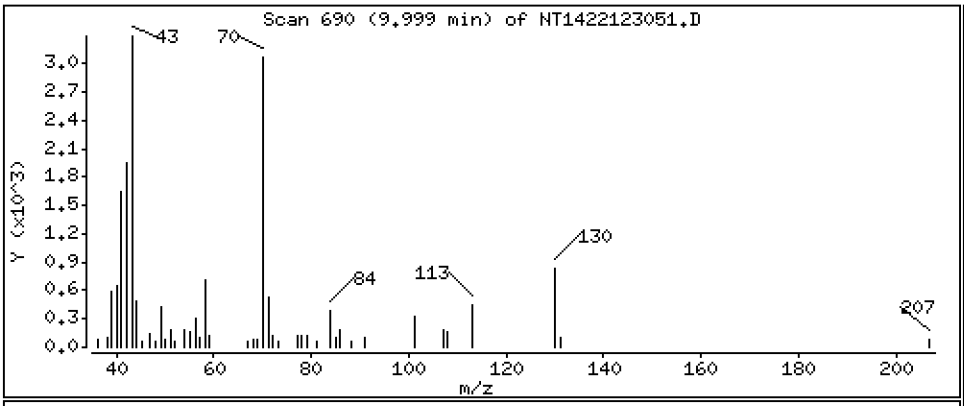
Operator: VTS

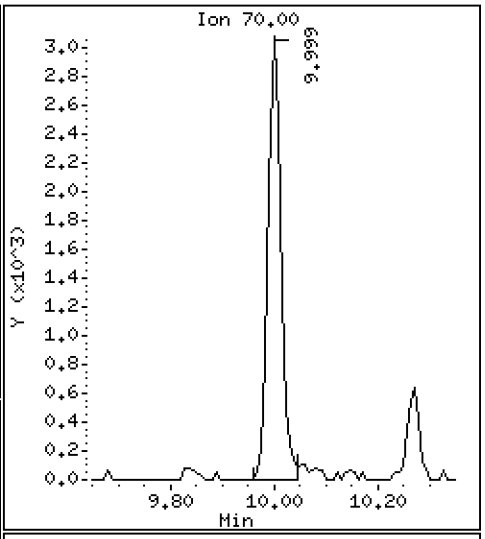
Column phase: ZB-5msi

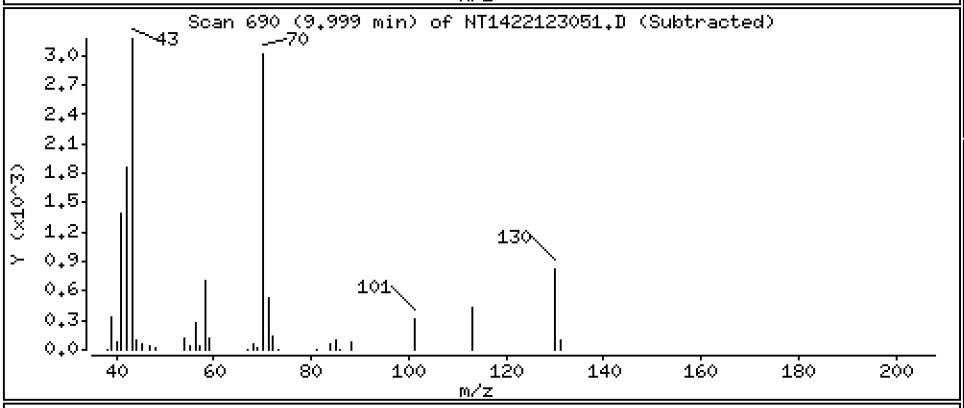
Column diameter: 0.25

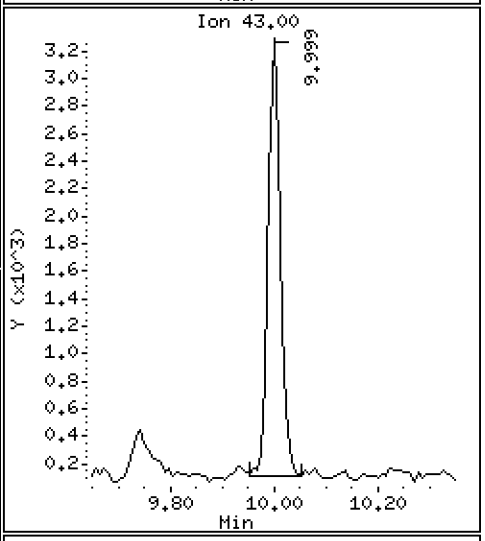
16 N-Nitroso-di-n-propylamine

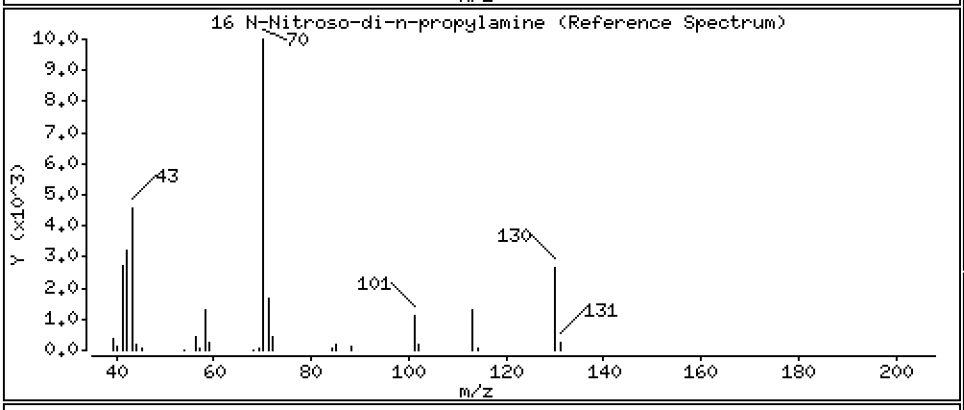
Concentration: 0.2208 ug/mL

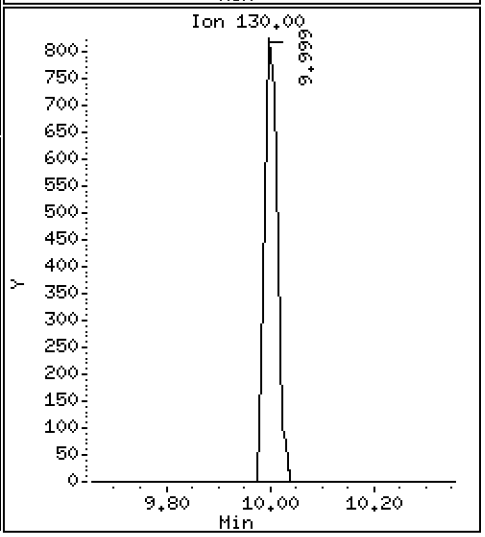


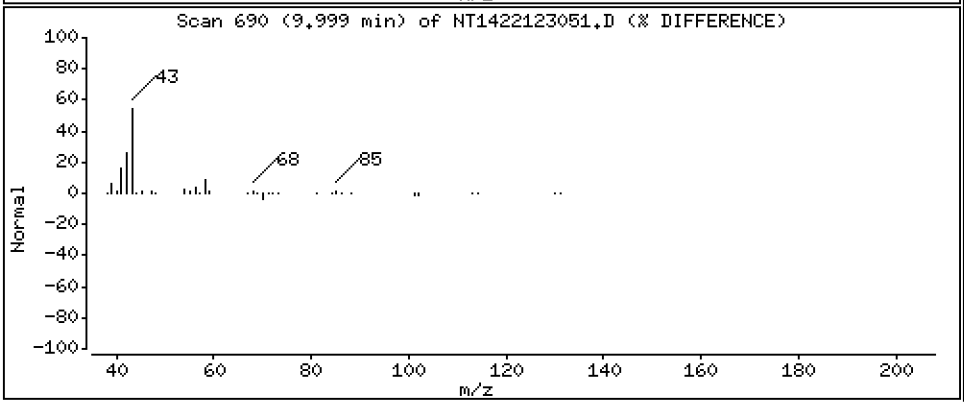












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

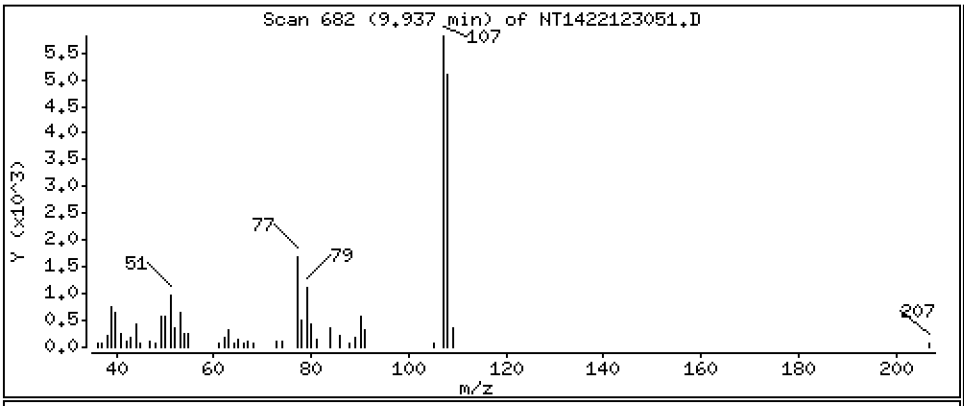
Operator: VTS

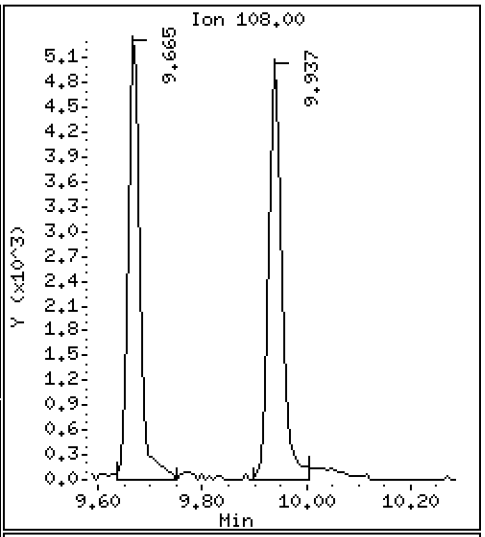
Column phase: ZB-5msi

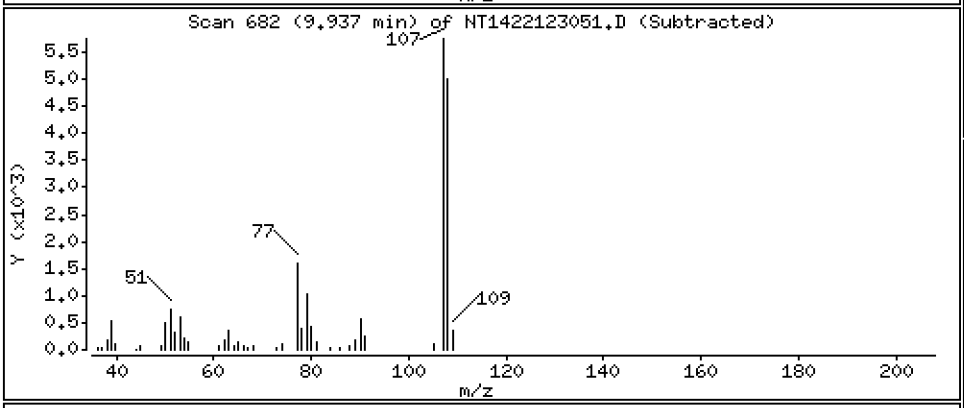
Column diameter: 0.25

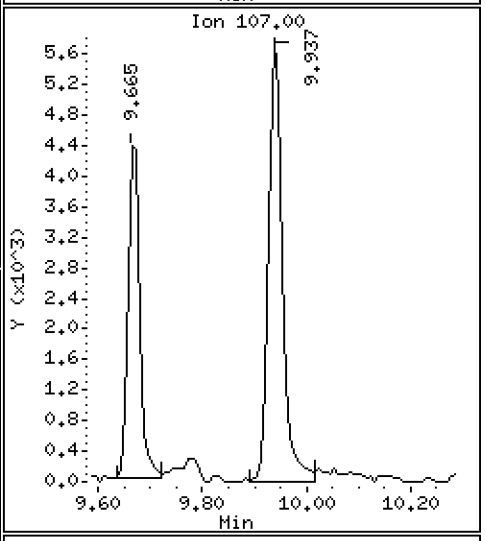
15 4-Methylphenol

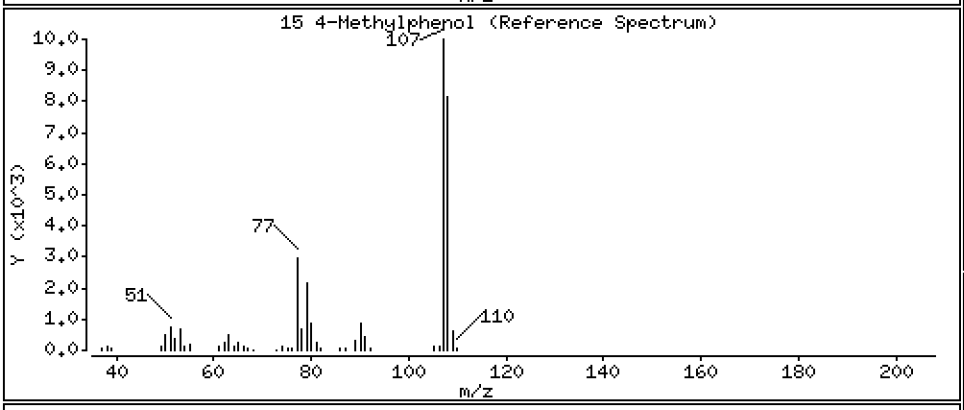
Concentration: 0.2121 ug/mL

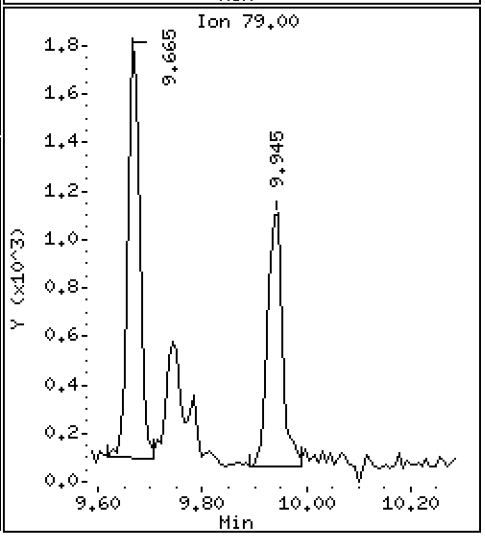


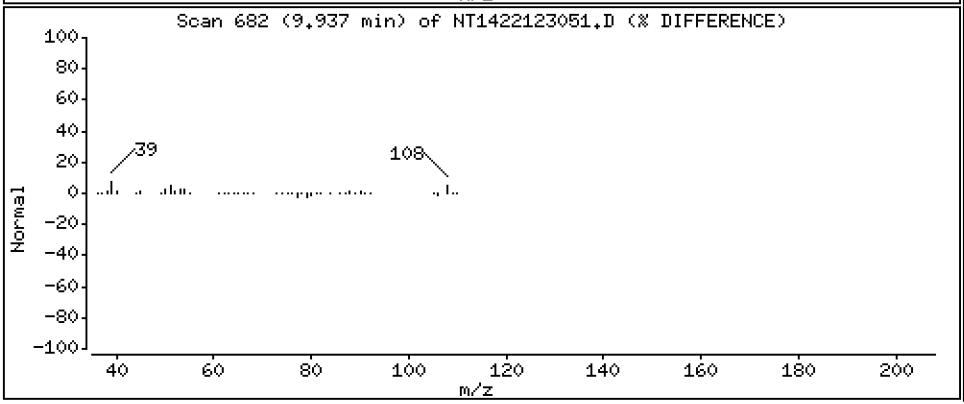












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

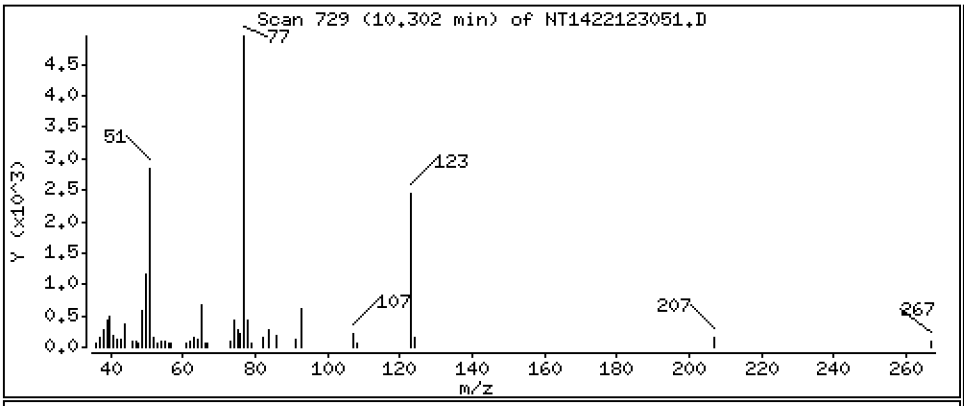
Operator: VTS

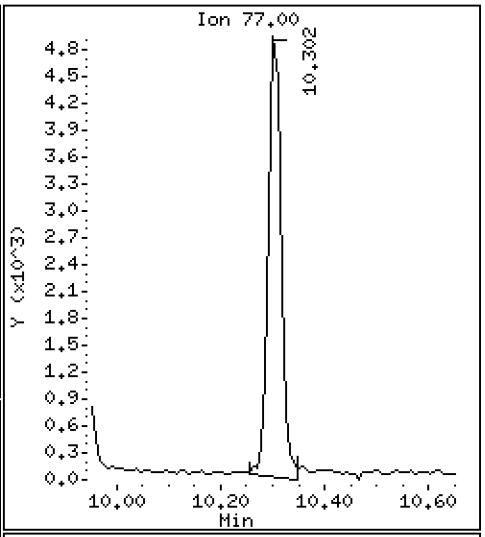
Column phase: ZB-5msi

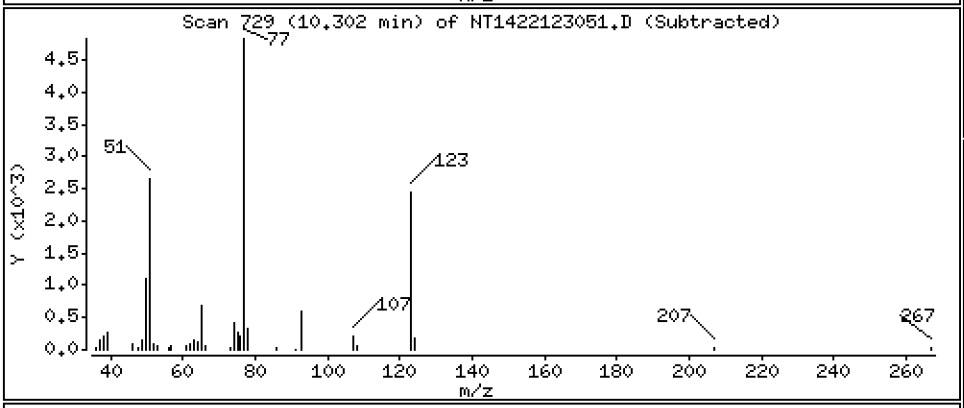
Column diameter: 0.25

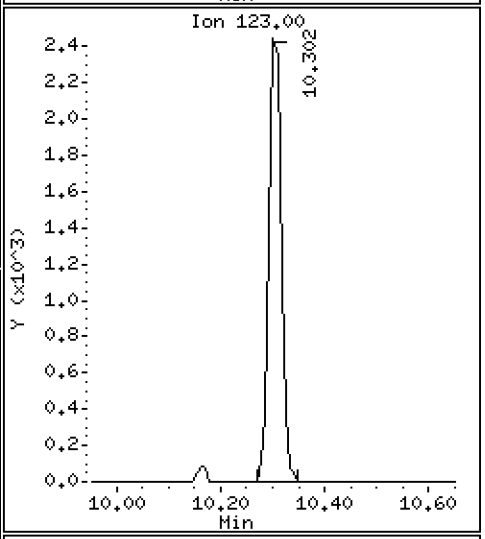
19 Nitrobenzene

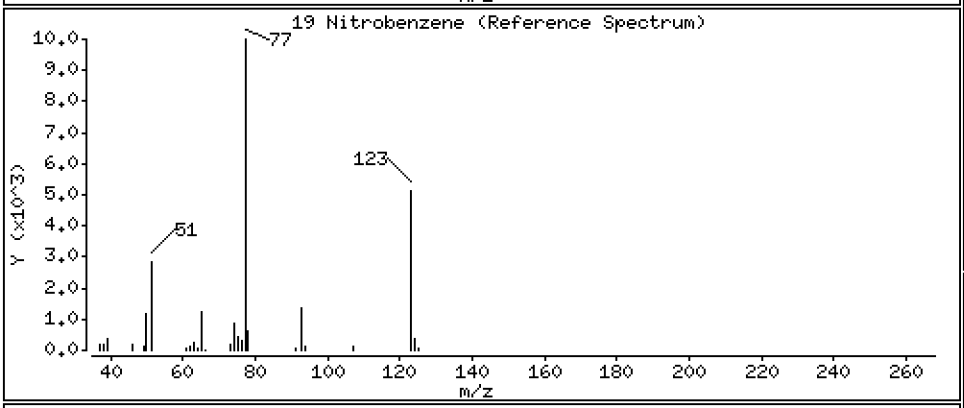
Concentration: 0.2254 ug/mL

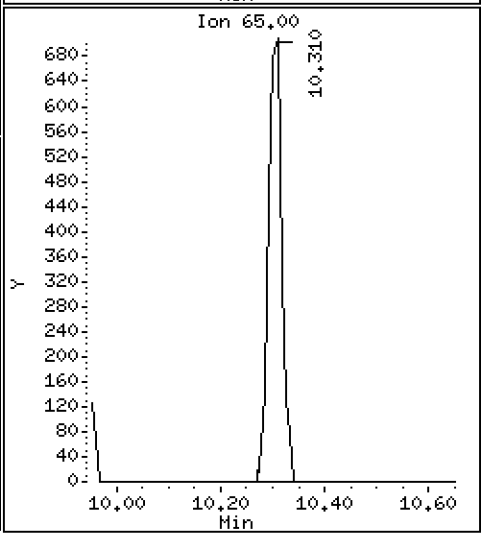


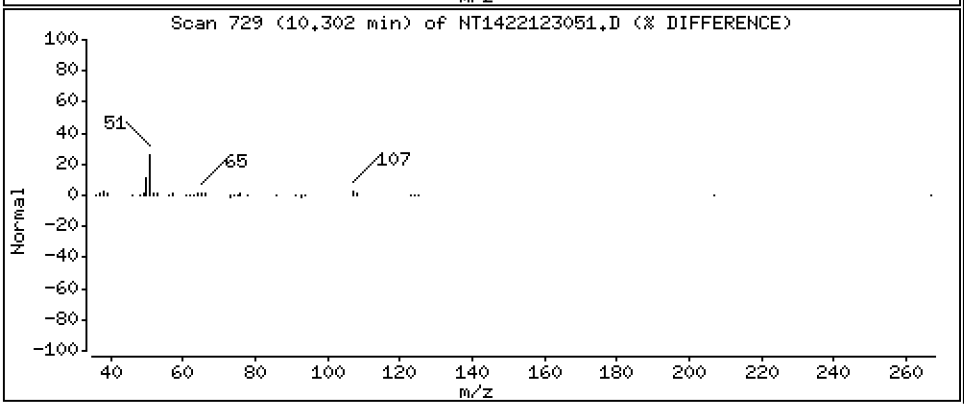












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

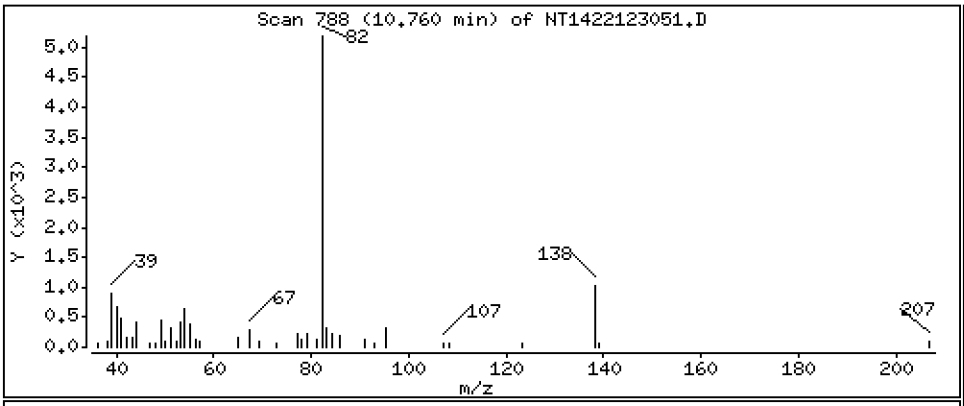
Operator: VTS

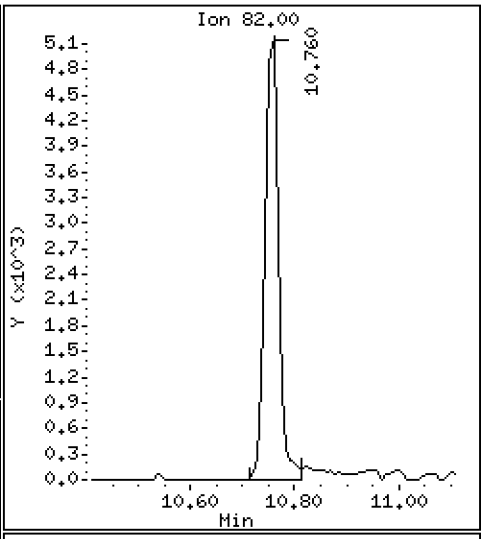
Column phase: ZB-5msi

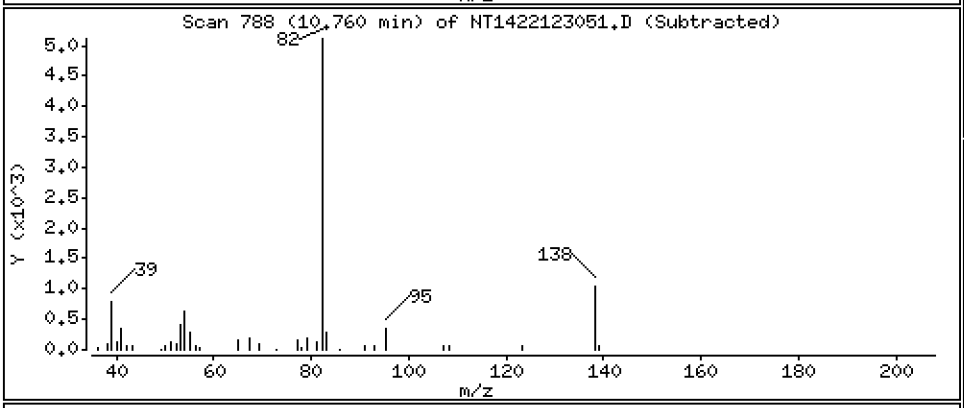
Column diameter: 0.25

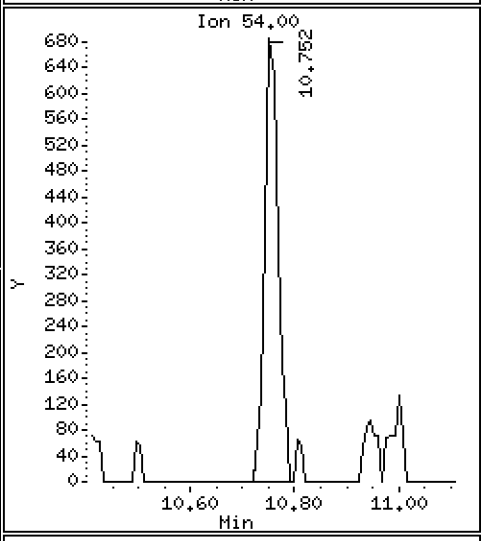
20 Isophorone

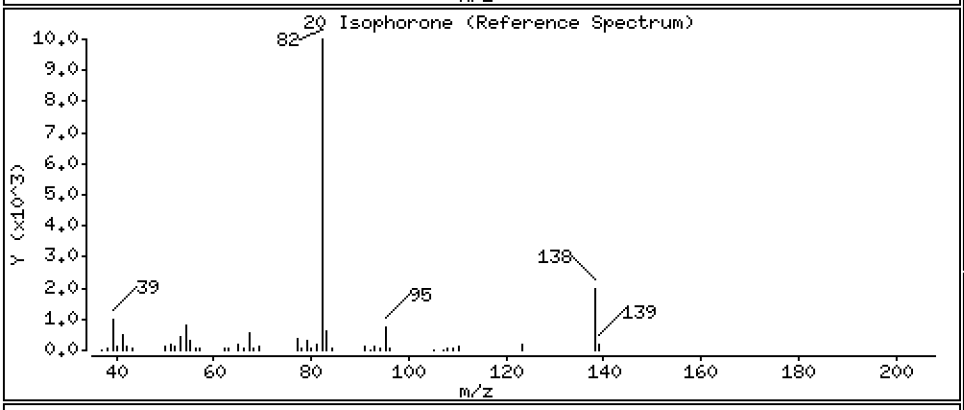
Concentration: 0.1965 ug/mL

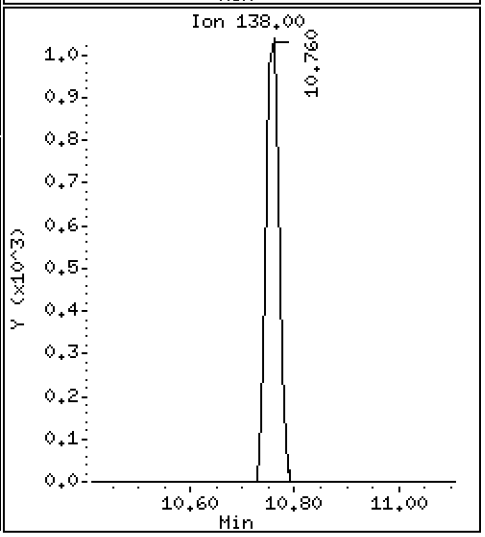


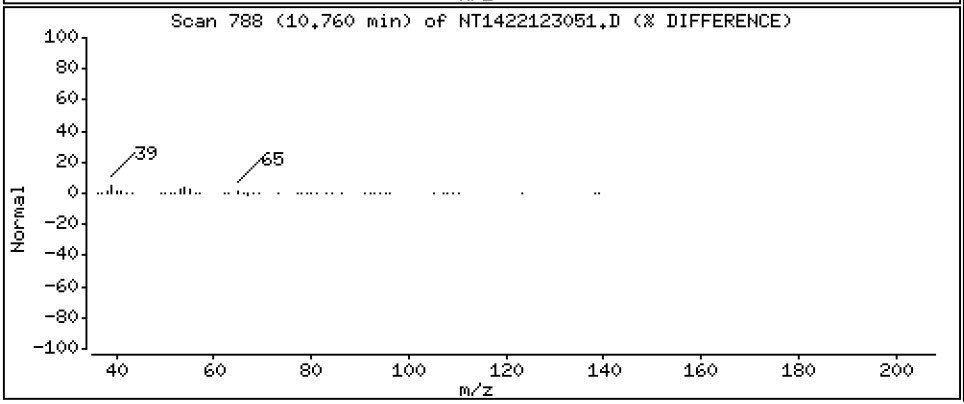












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

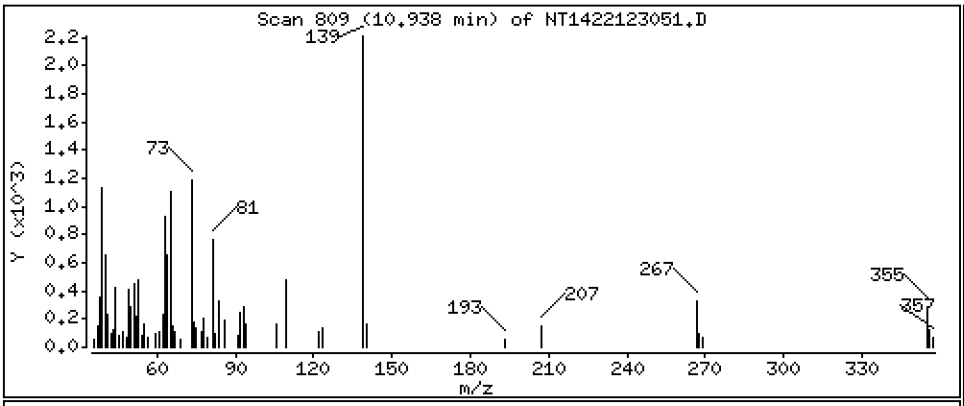
Operator: VTS

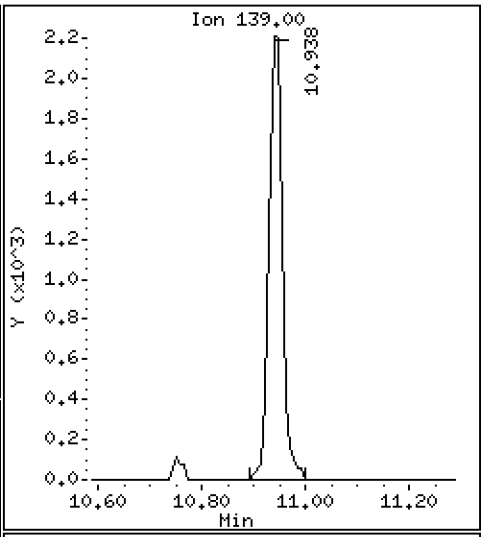
Column phase: ZB-5msi

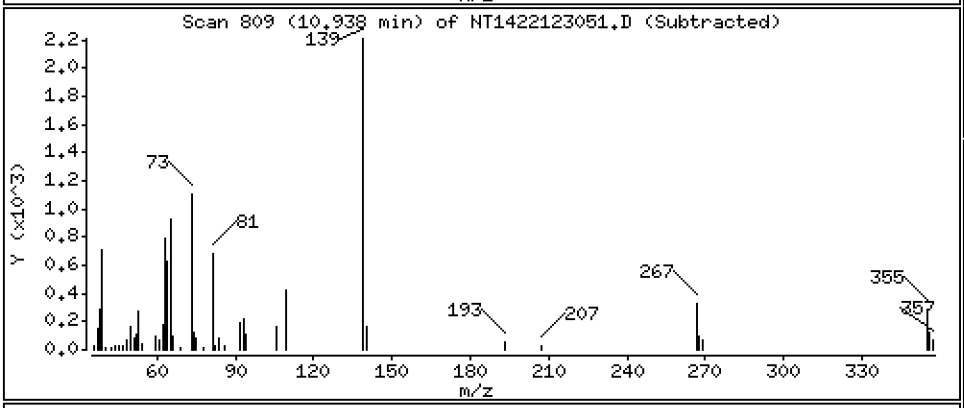
Column diameter: 0.25

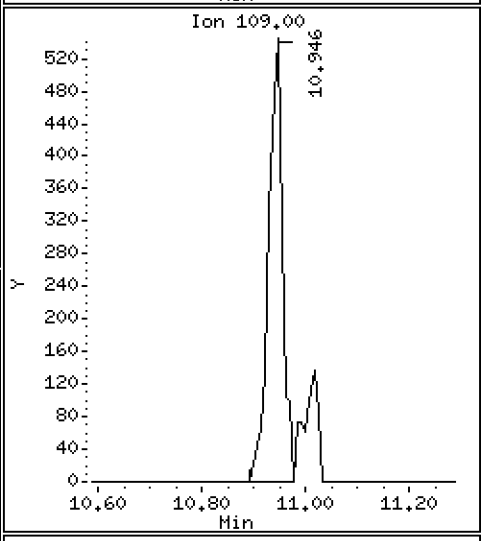
21 2-Nitrophenol

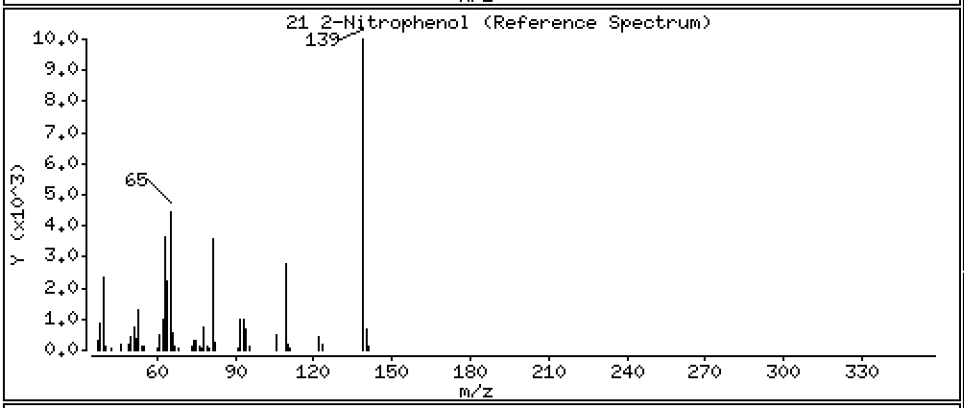
Concentration: 0.2028 ug/mL

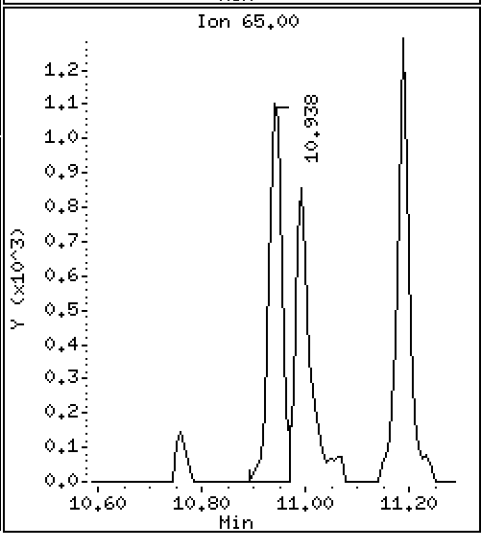


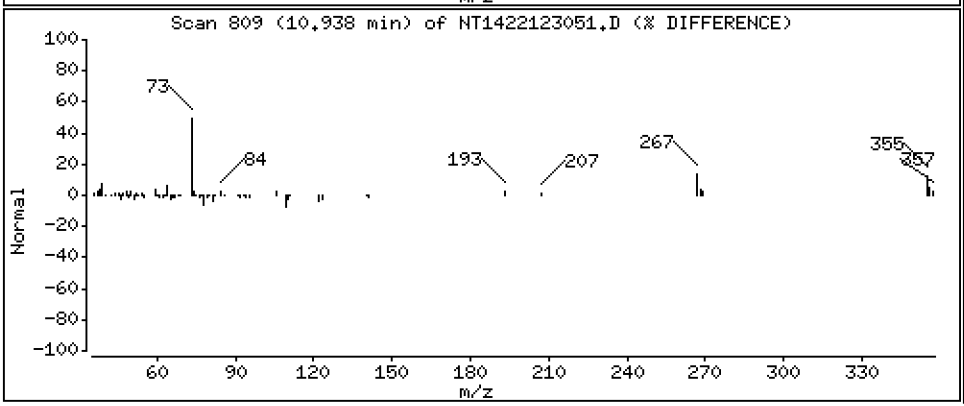












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

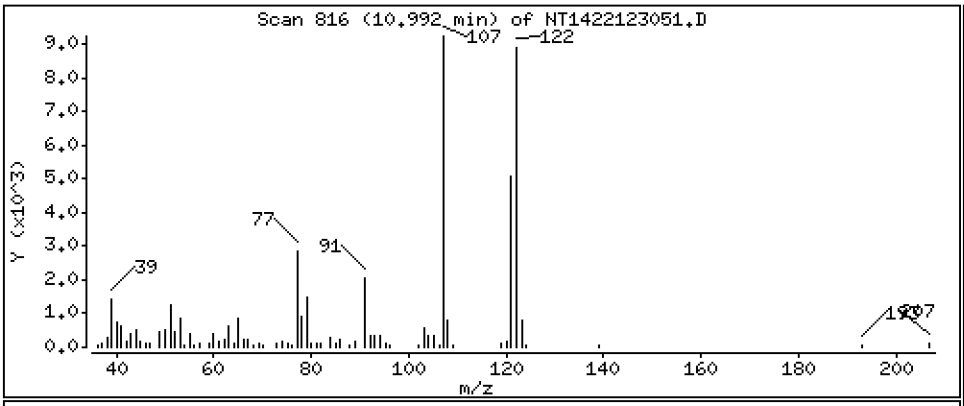
Operator: VTS

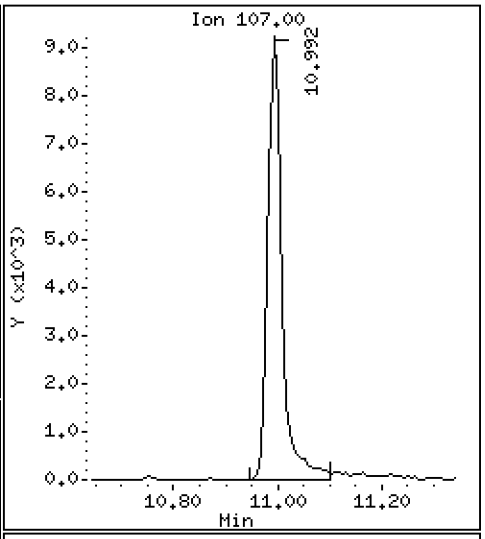
Column phase: ZB-5msi

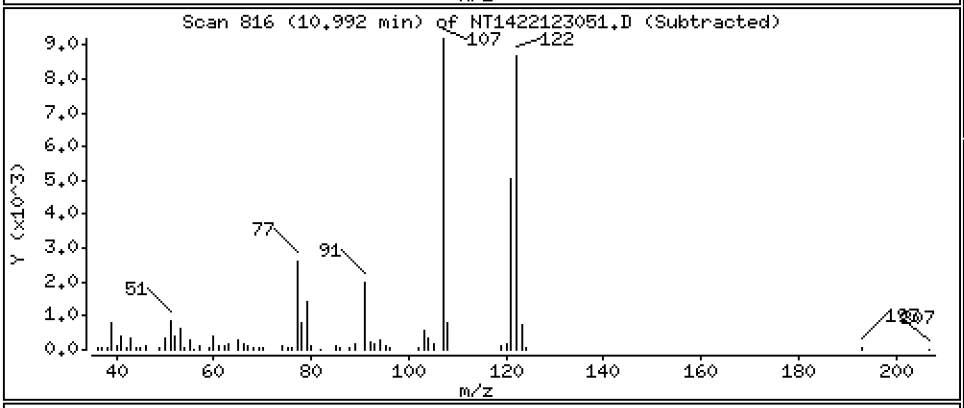
Column diameter: 0.25

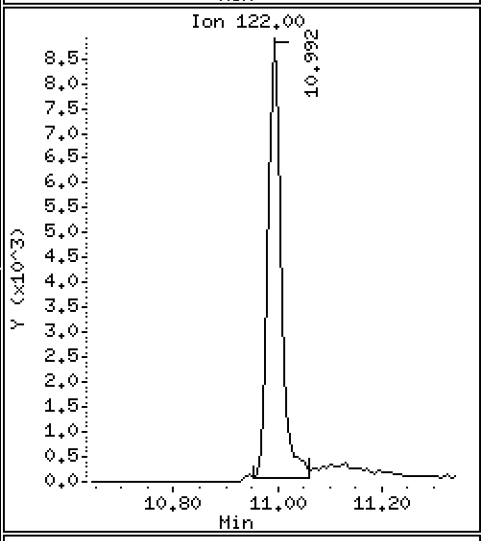
22 2,4-Dimethylphenol

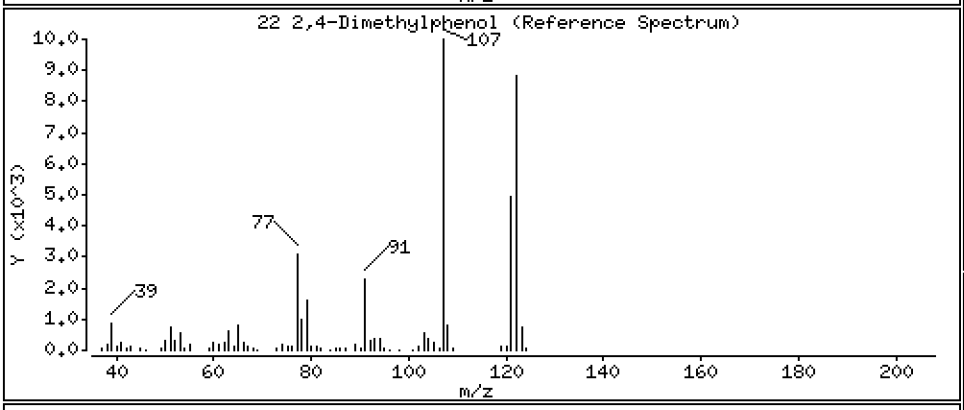
Concentration: 0.4556 ug/mL

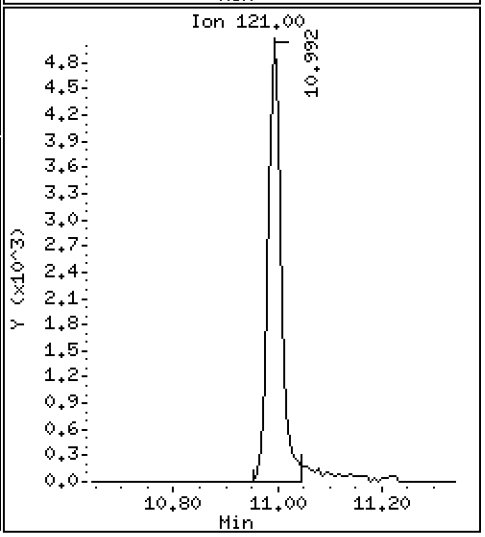


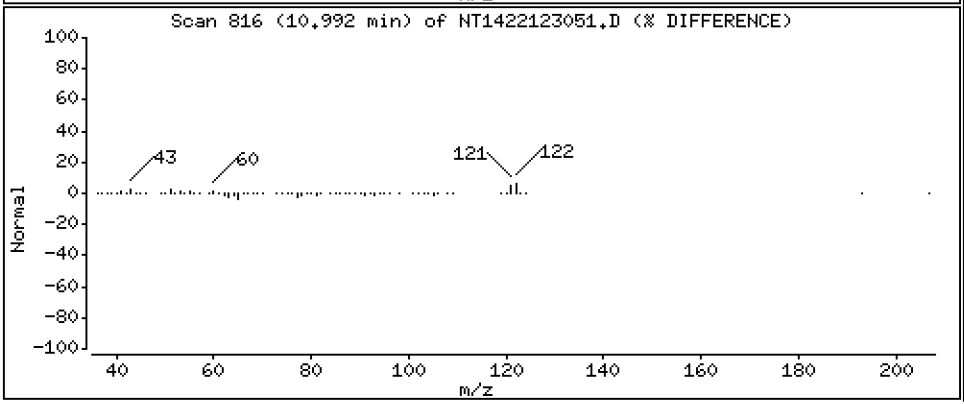












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

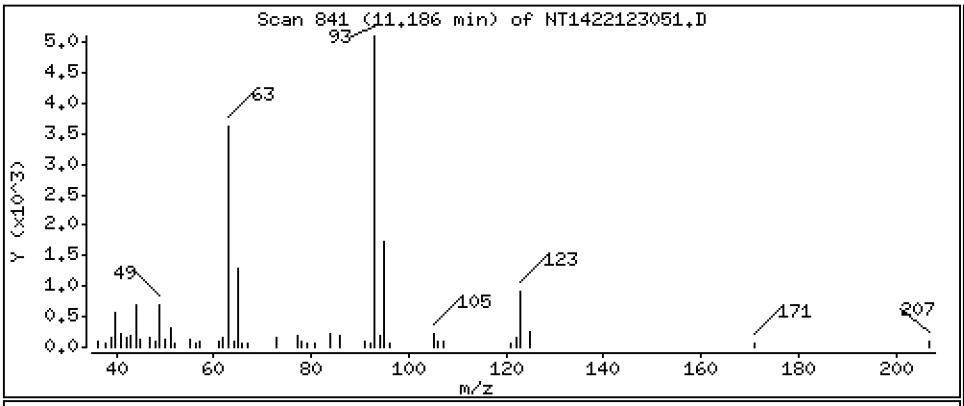
Operator: VTS

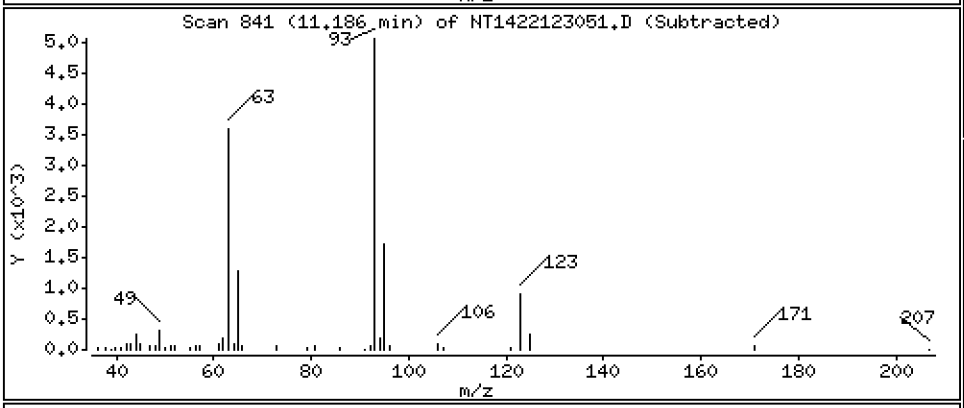
Column phase: ZB-5msi

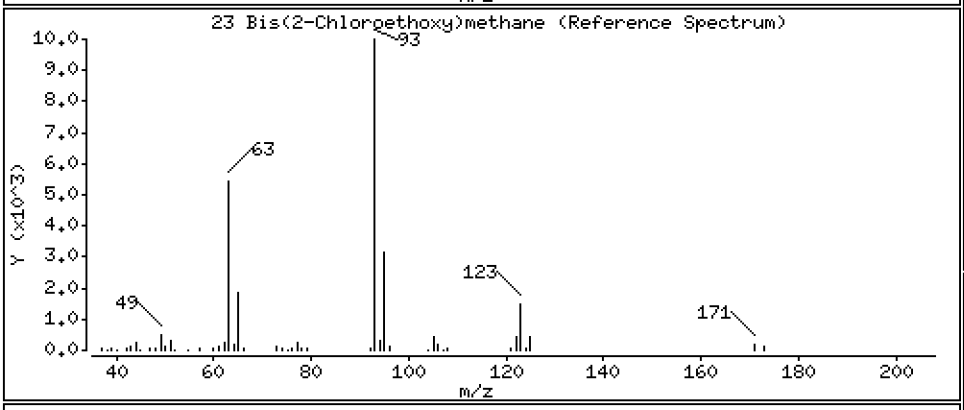
Column diameter: 0.25

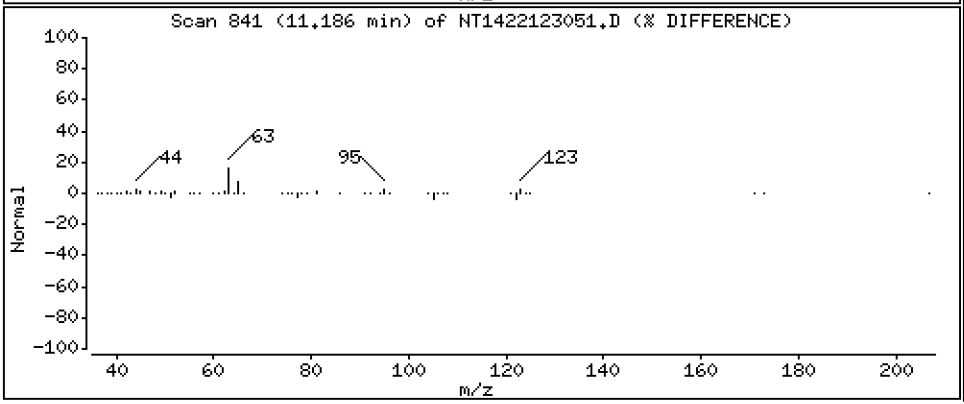
23 Bis(2-Chloroethoxy)methane

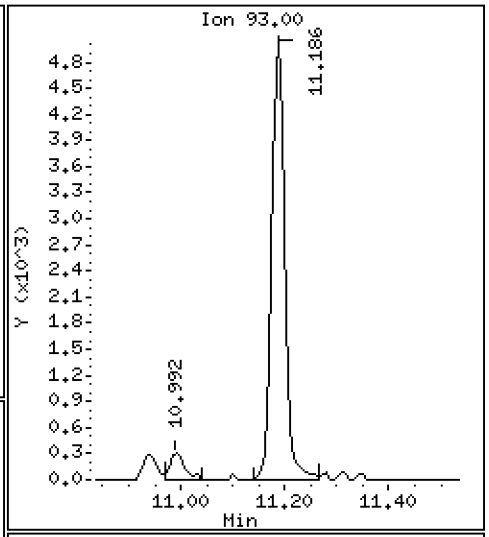
Concentration: 0.2358 ug/mL

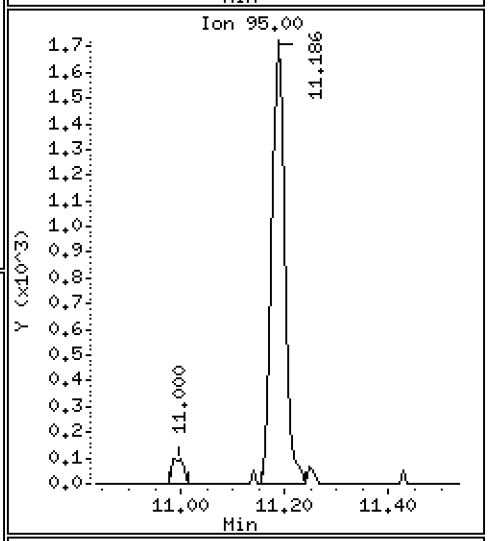


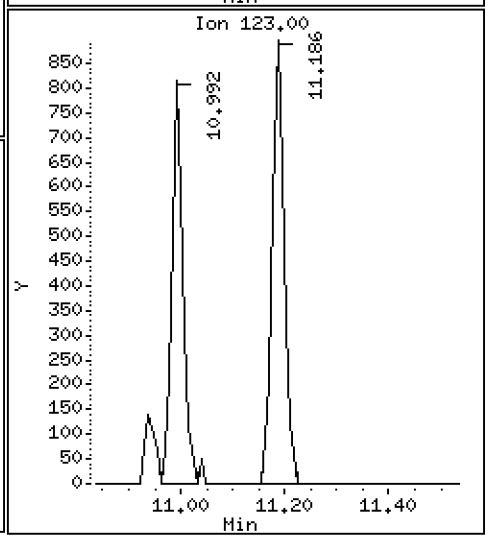












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

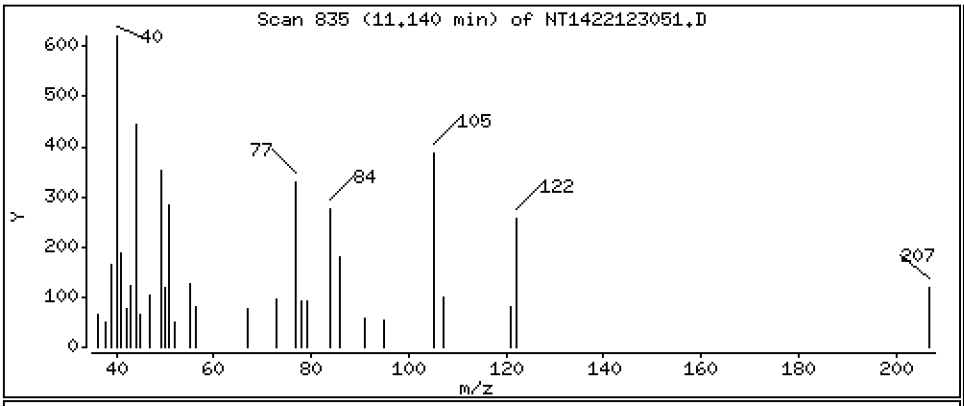
Operator: VTS

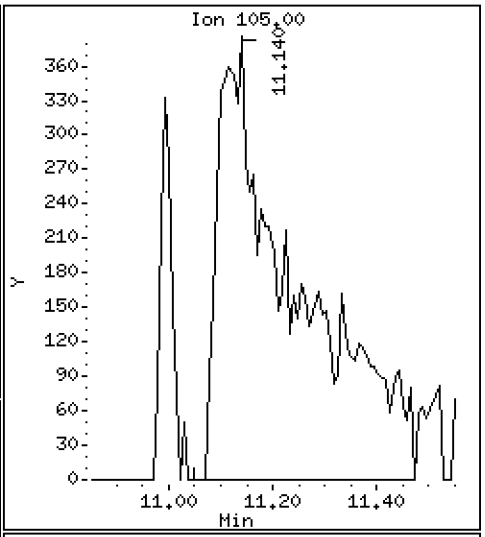
Column phase: ZB-5msi

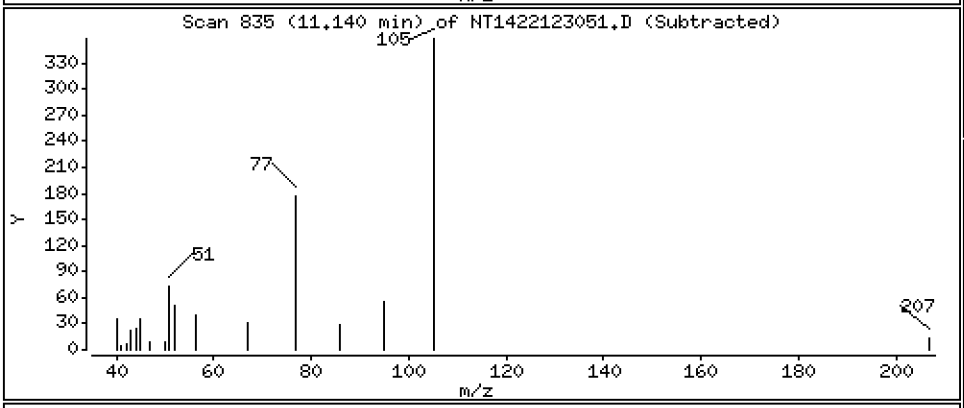
Column diameter: 0.25

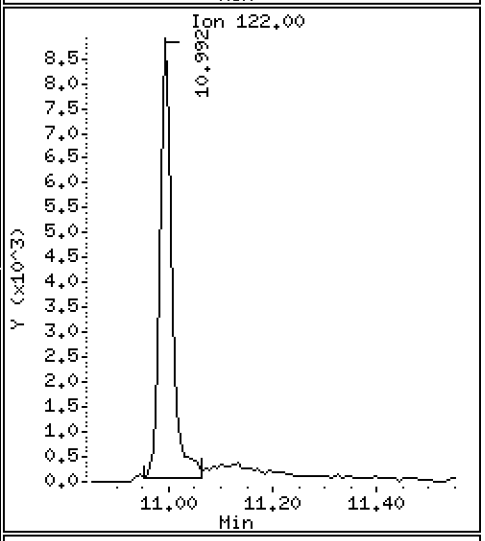
24 Benzoic acid

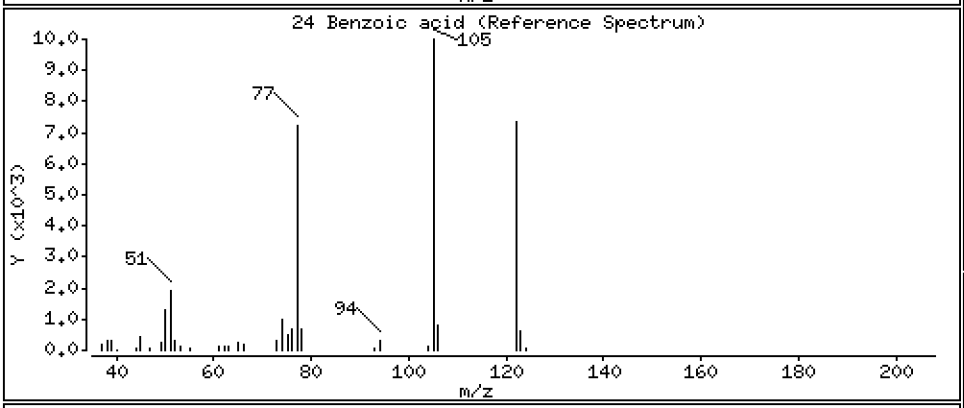
Concentration: 0.1748 ug/mL

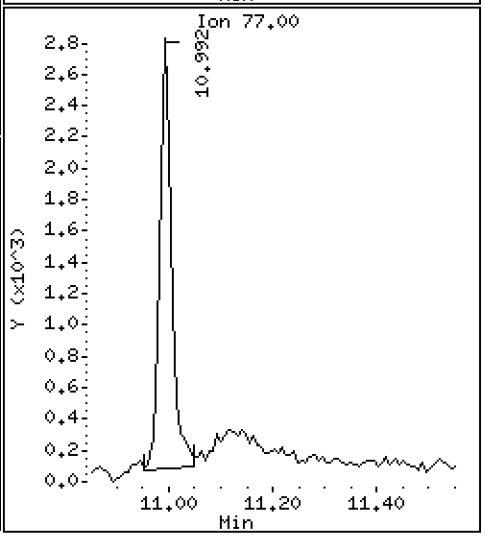


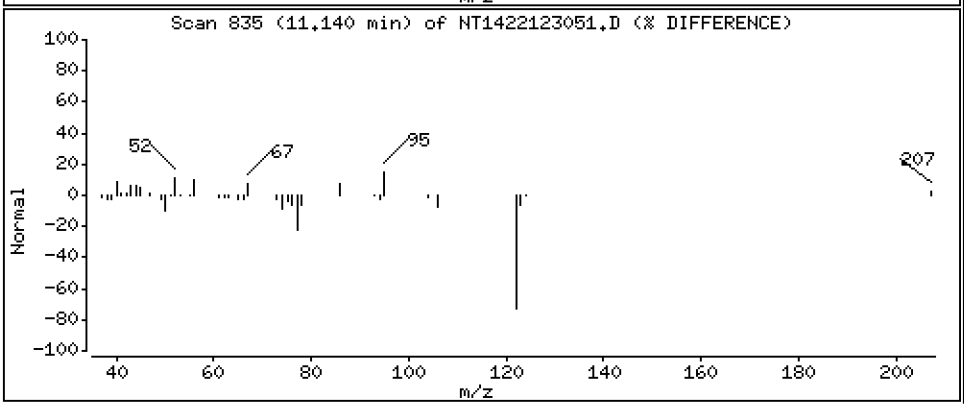












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

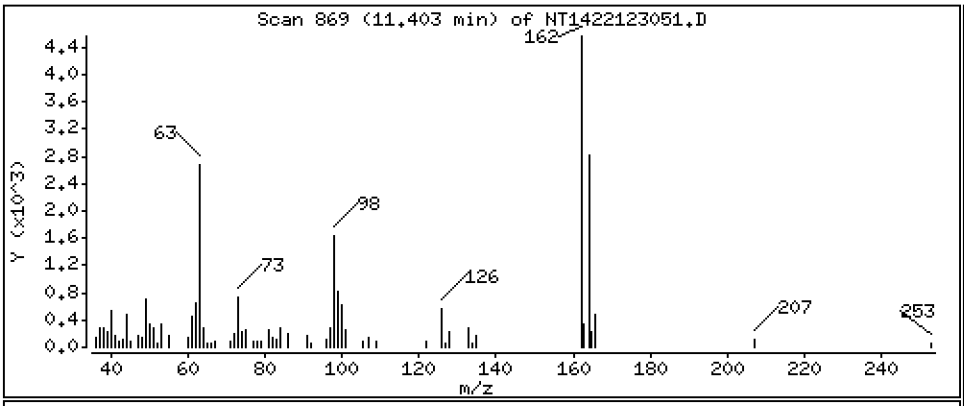
Operator: VTS

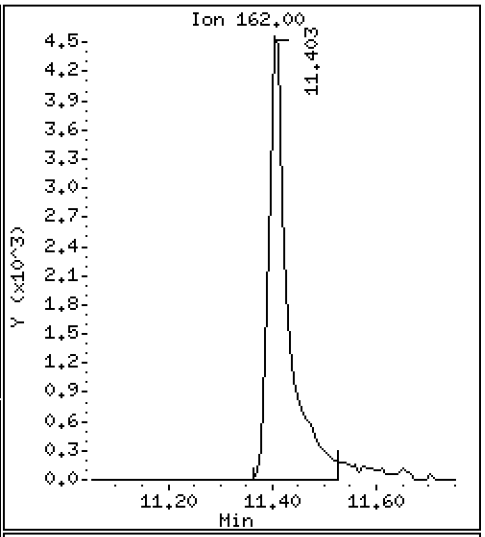
Column phase: ZB-5msi

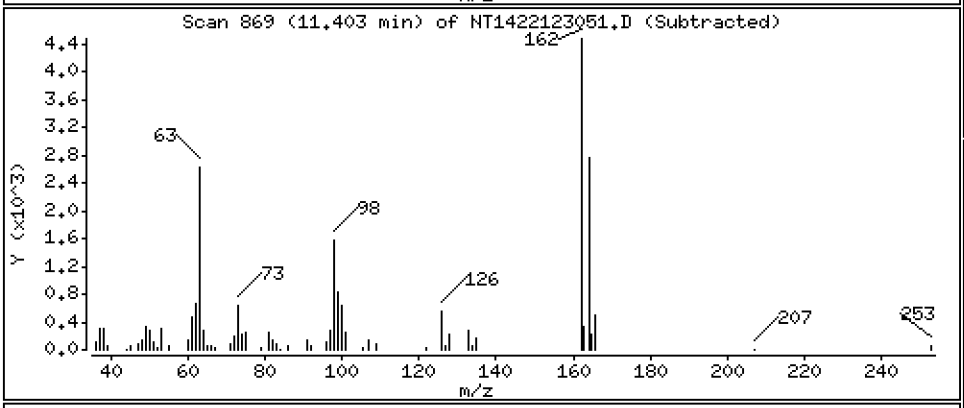
Column diameter: 0.25

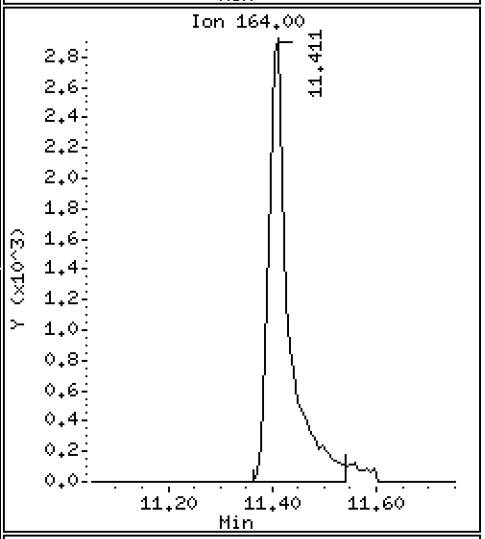
25 2,4-Dichlorophenol

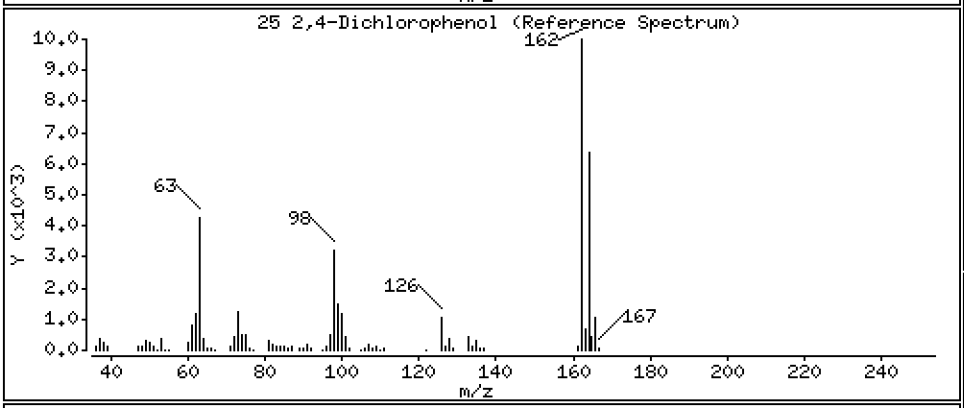
Concentration: 0.4132 ug/mL

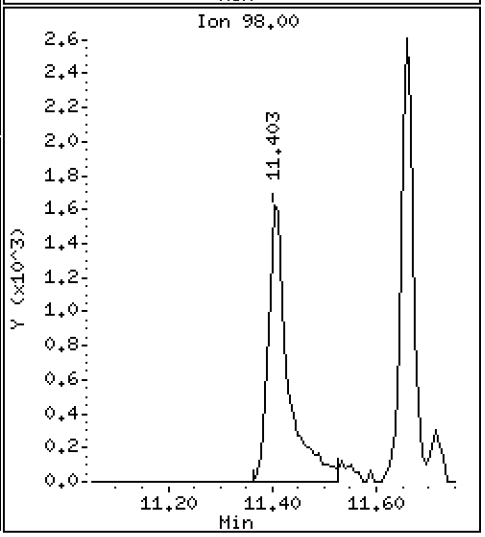


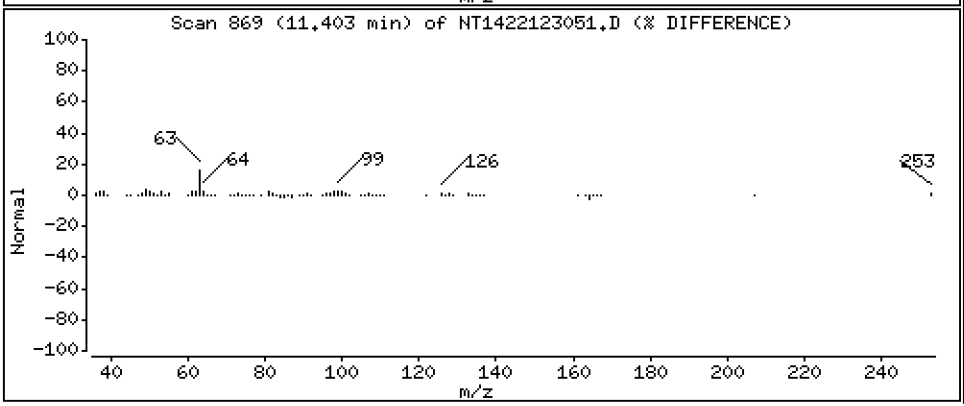












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

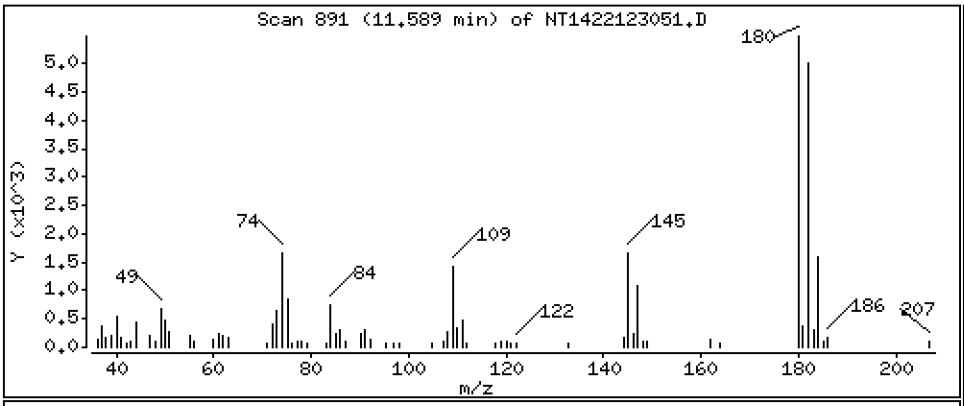
Operator: VTS

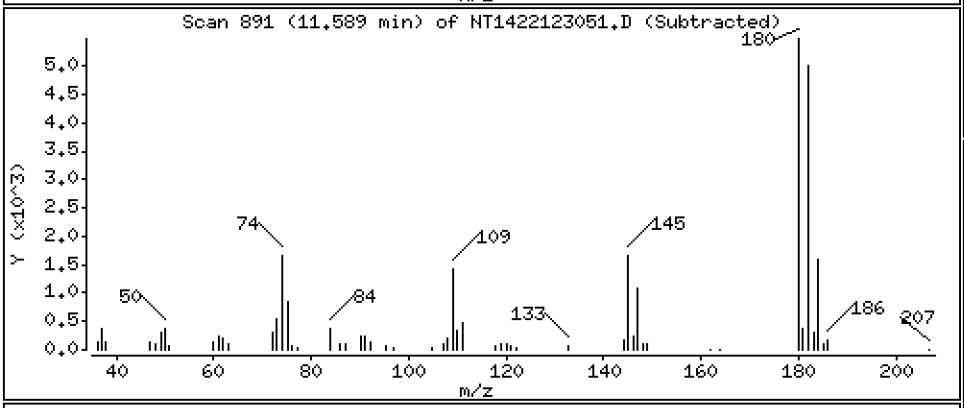
Column phase: ZB-5msi

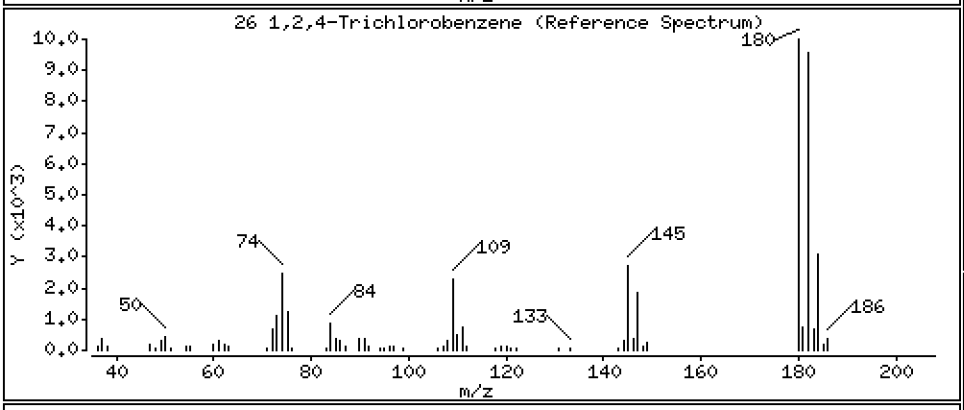
Column diameter: 0.25

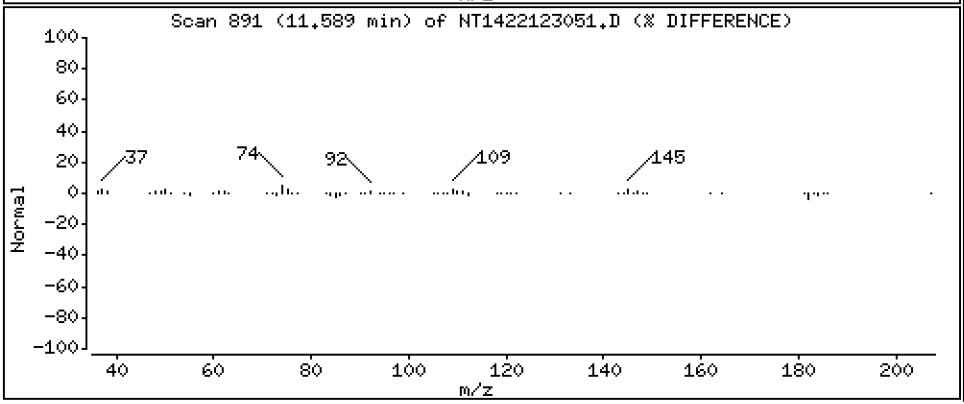
26 1,2,4-Trichlorobenzene

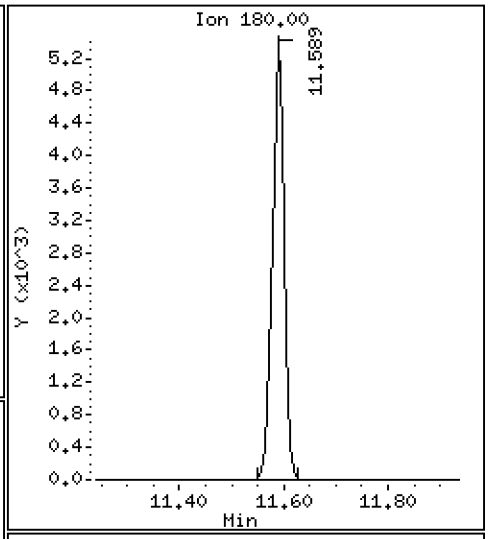
Concentration: 0.2422 ug/mL

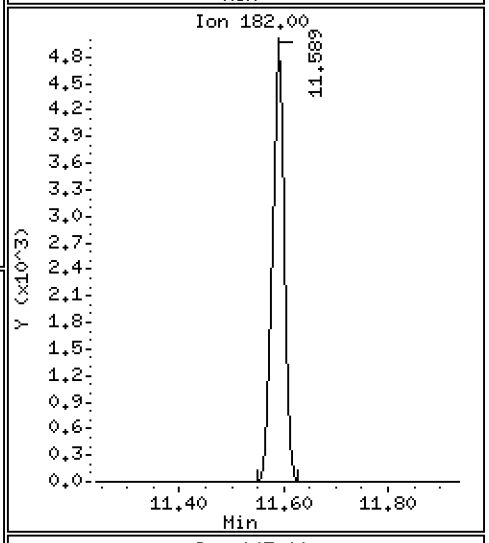


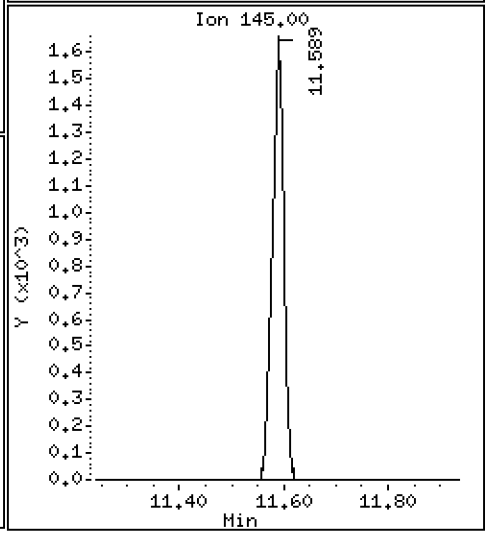












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

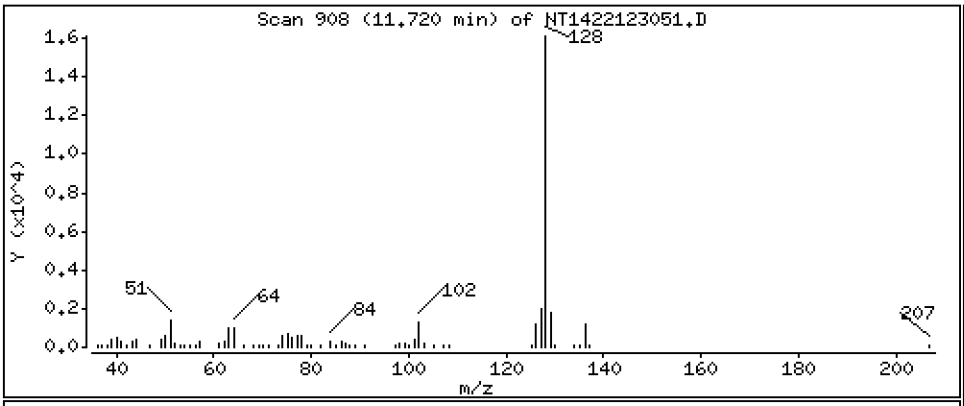
Operator: VTS

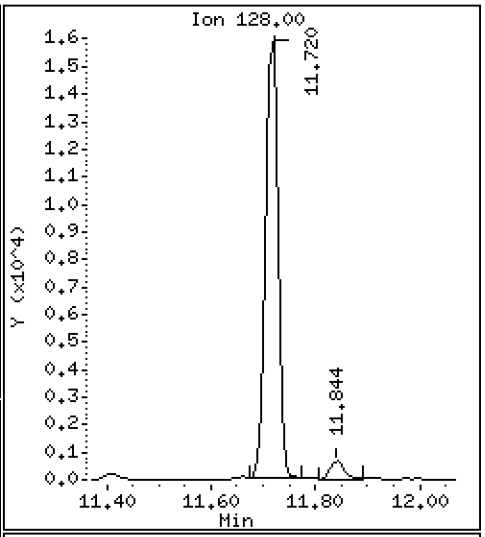
Column phase: ZB-5msi

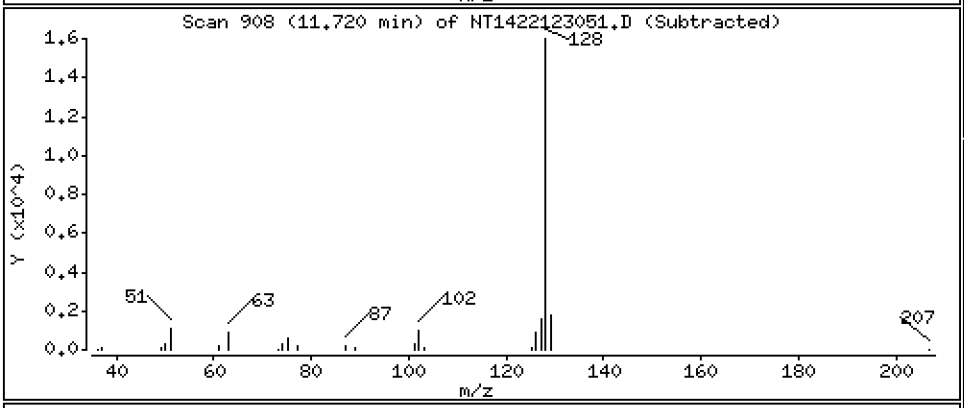
Column diameter: 0.25

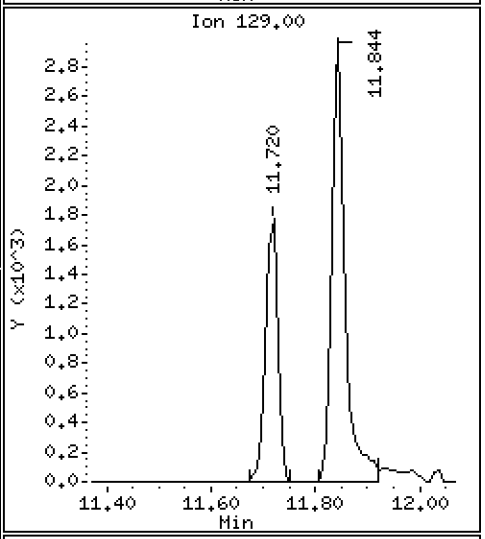
28 Naphthalene

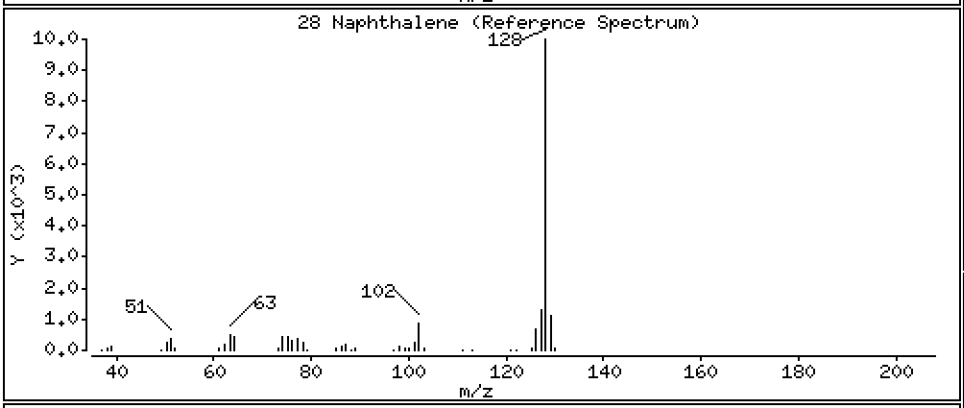
Concentration: 0.2377 ug/mL

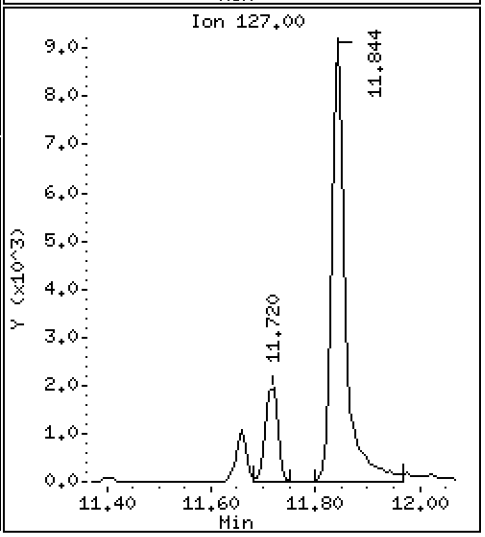


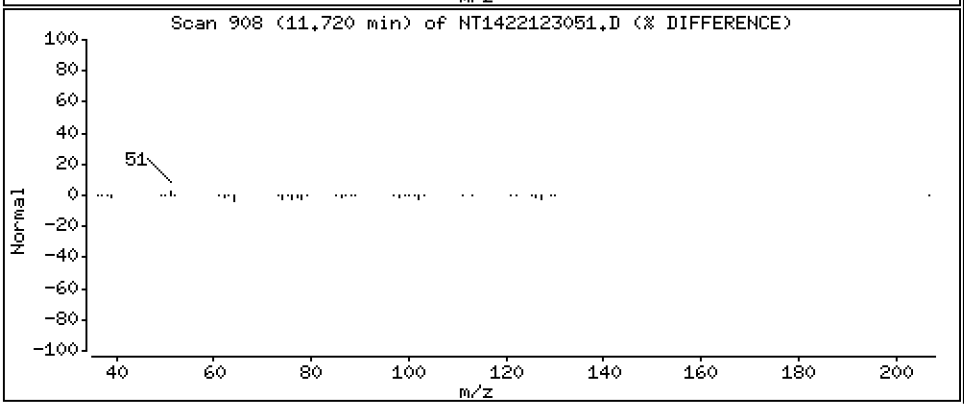












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

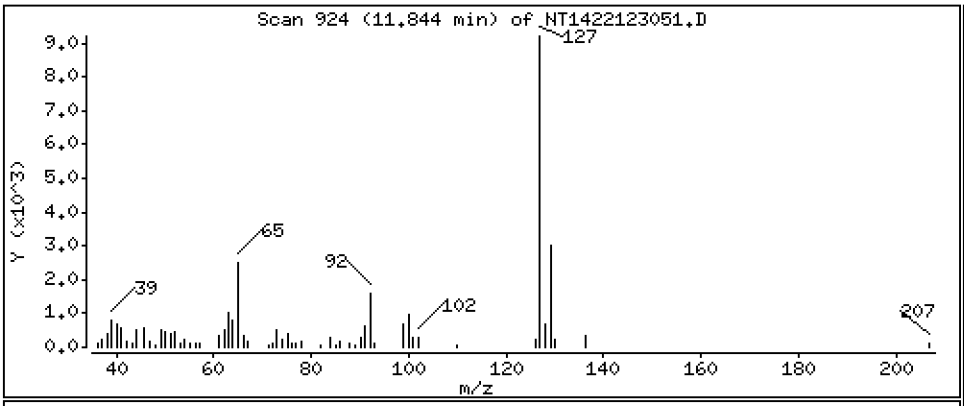
Operator: VTS

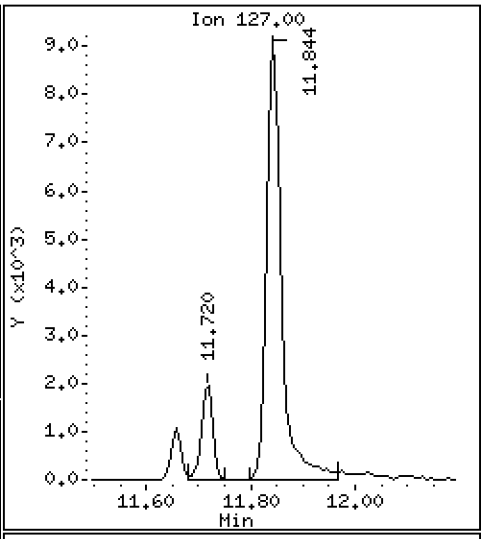
Column phase: ZB-5msi

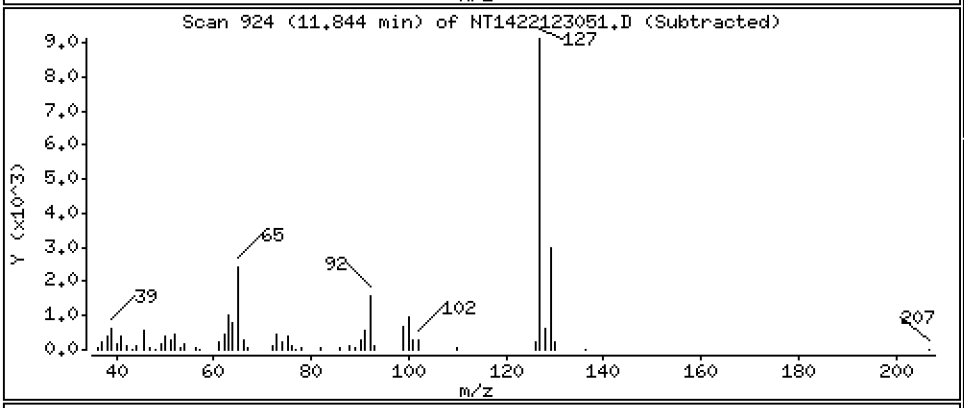
Column diameter: 0.25

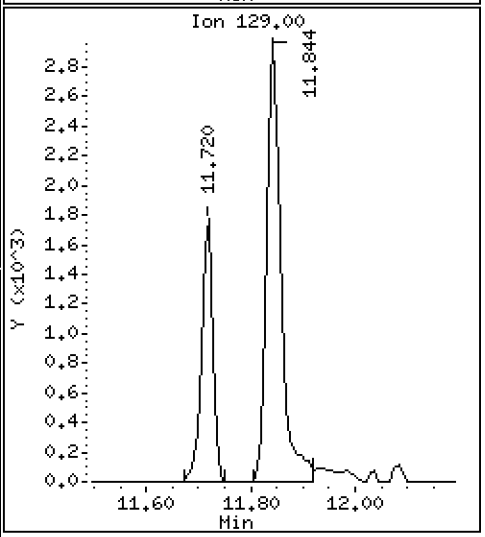
29 4-Chloroaniline

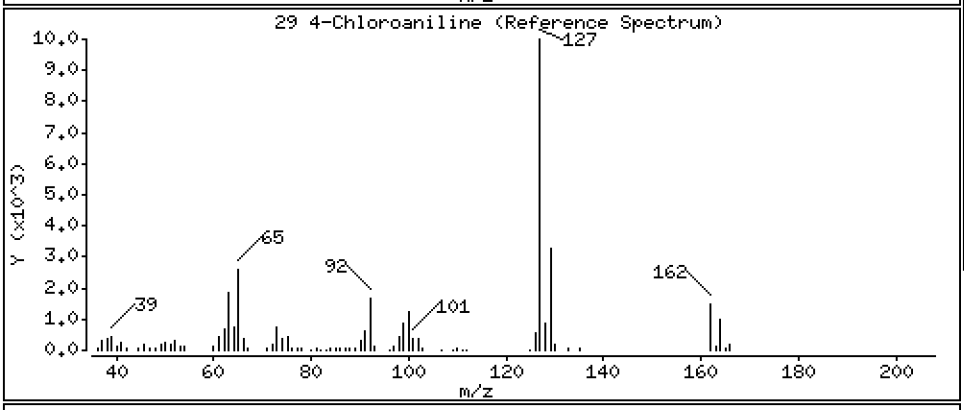
Concentration: 0.4058 ug/mL

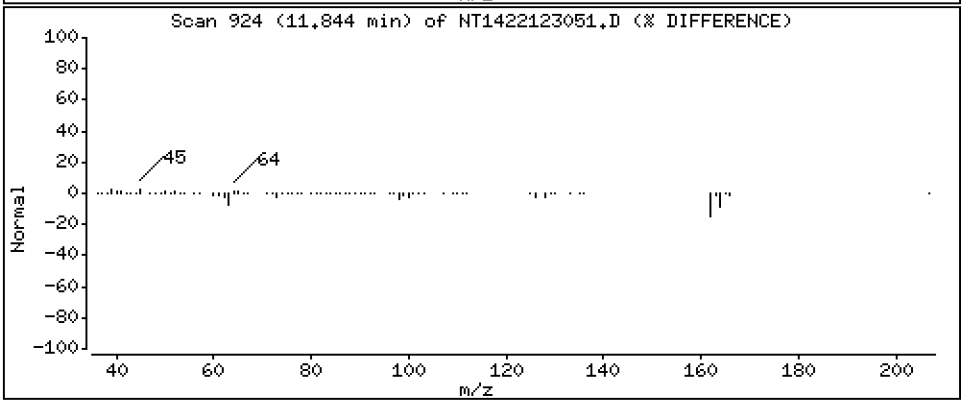












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

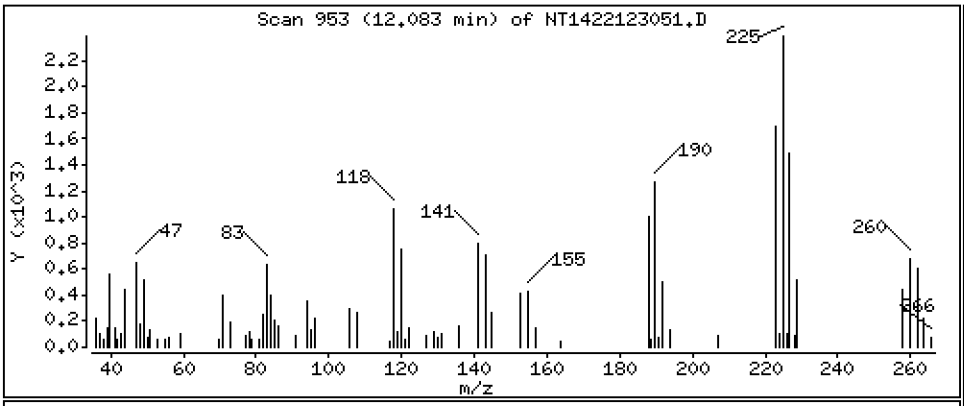
Operator: VTS

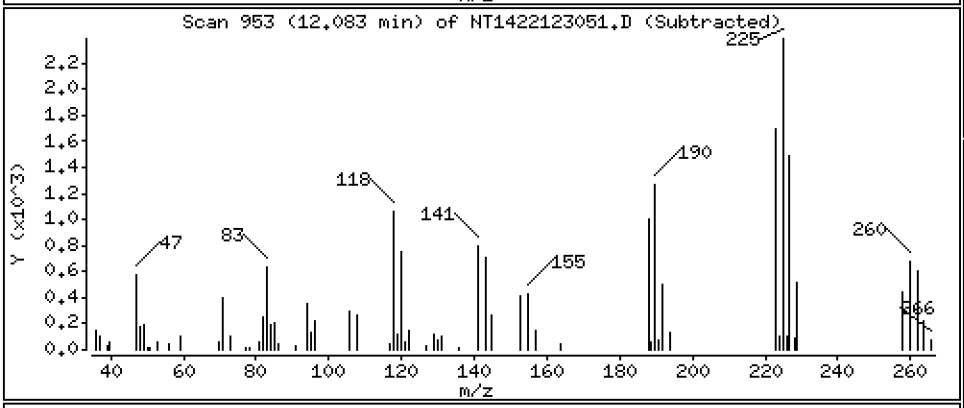
Column phase: ZB-5msi

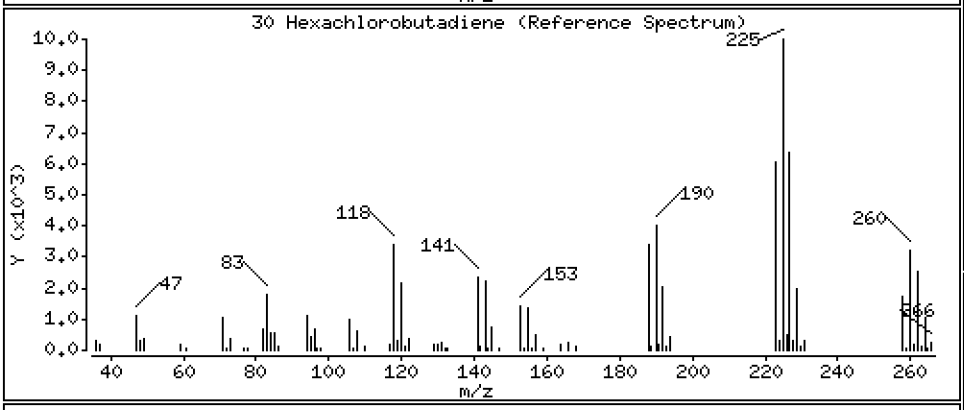
Column diameter: 0.25

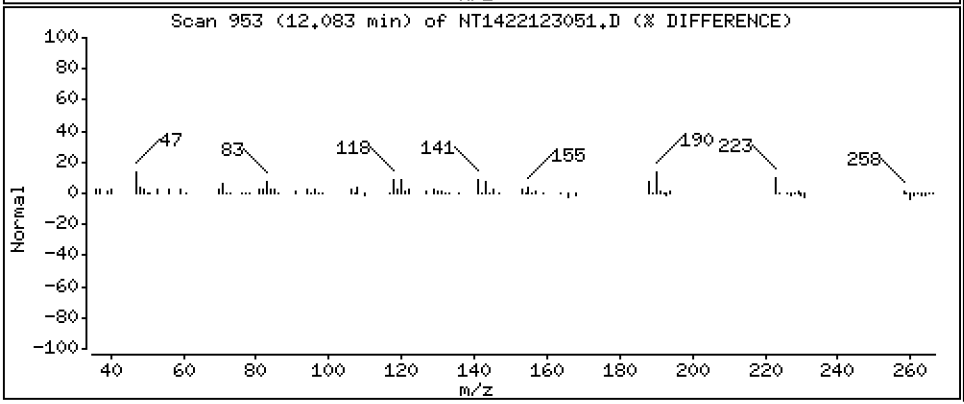
30 Hexachlorobutadiene

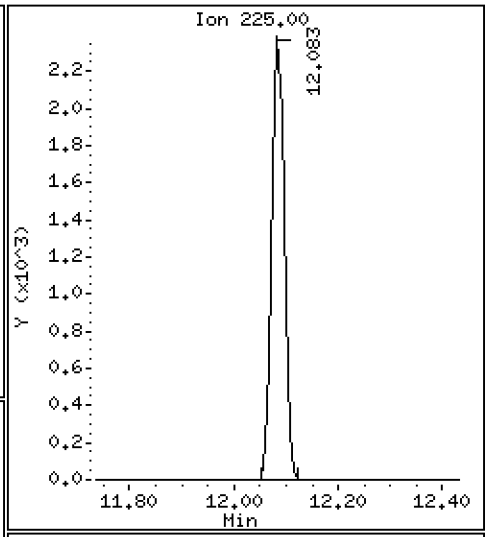
Concentration: 0.2223 ug/mL

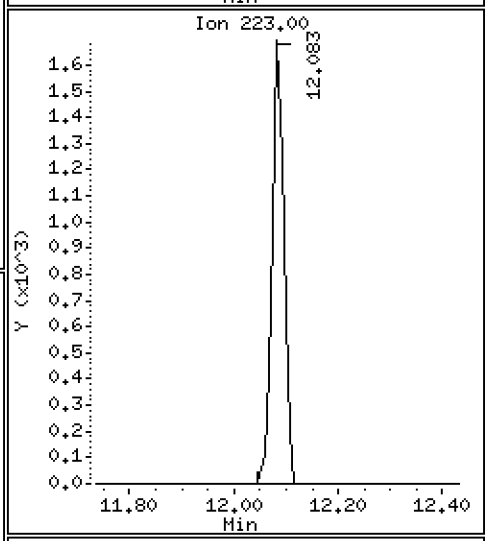


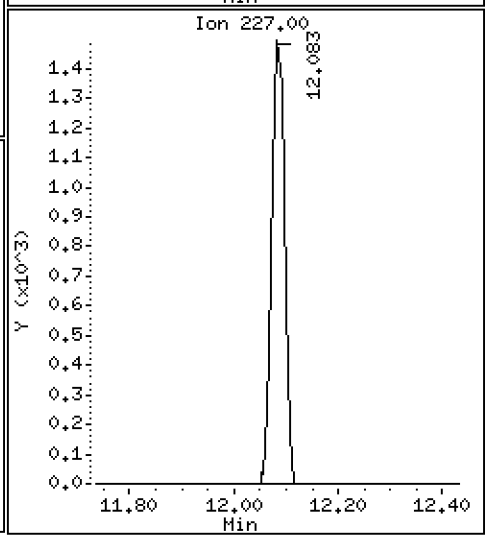












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

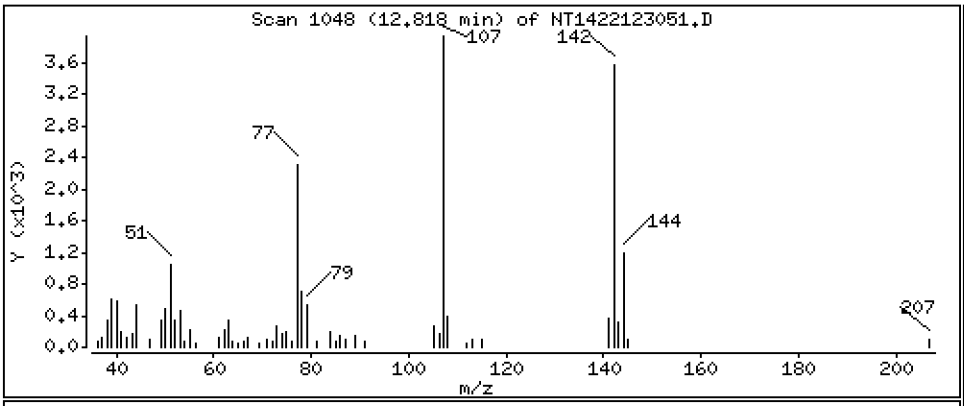
Operator: VTS

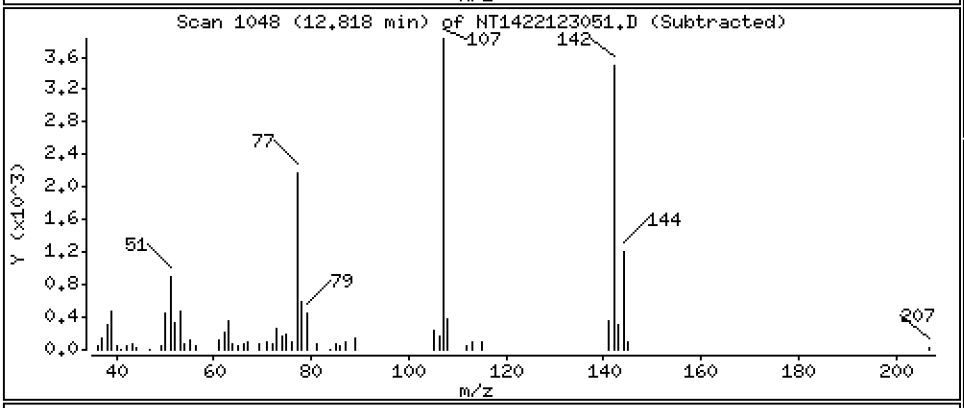
Column phase: ZB-5msi

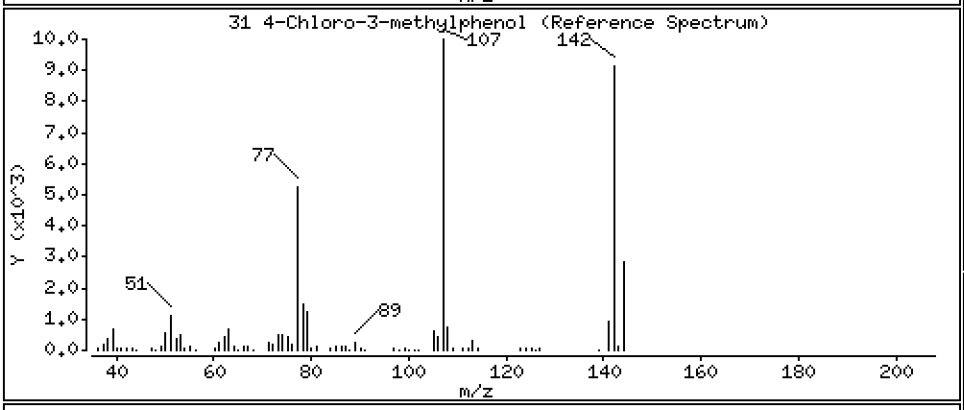
Column diameter: 0.25

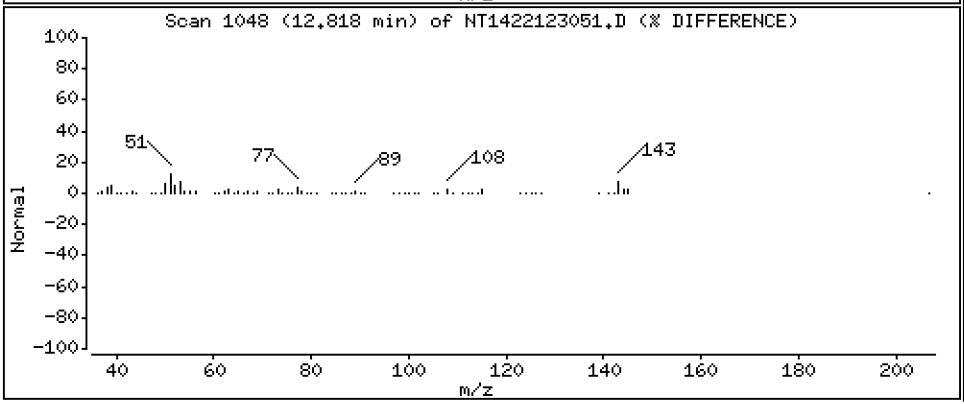
31 4-Chloro-3-methylphenol

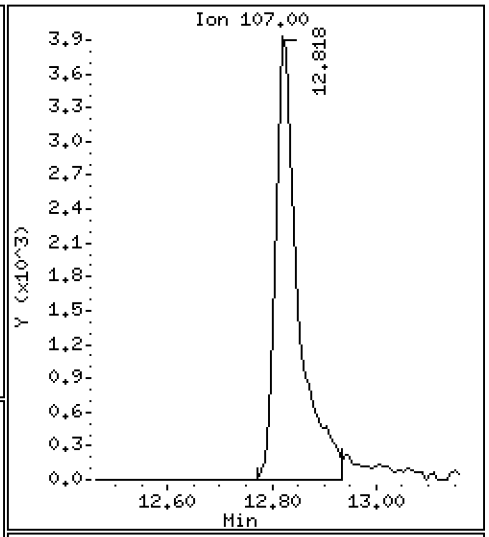
Concentration: 0.4010 ug/mL

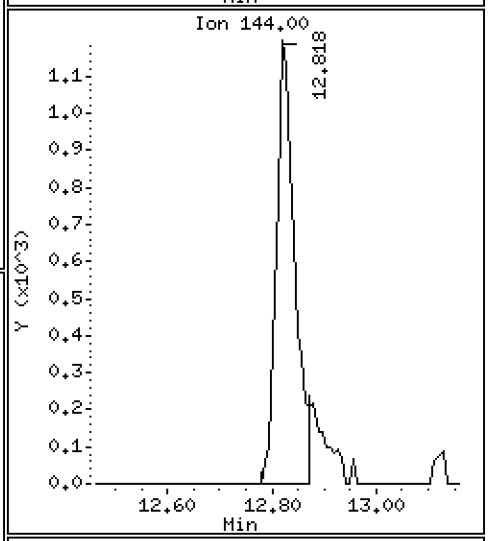


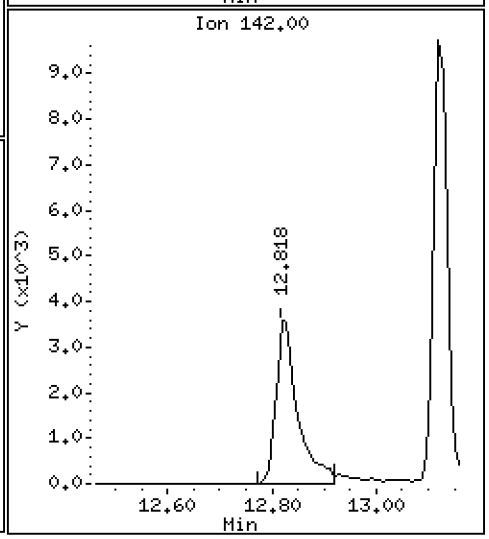












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

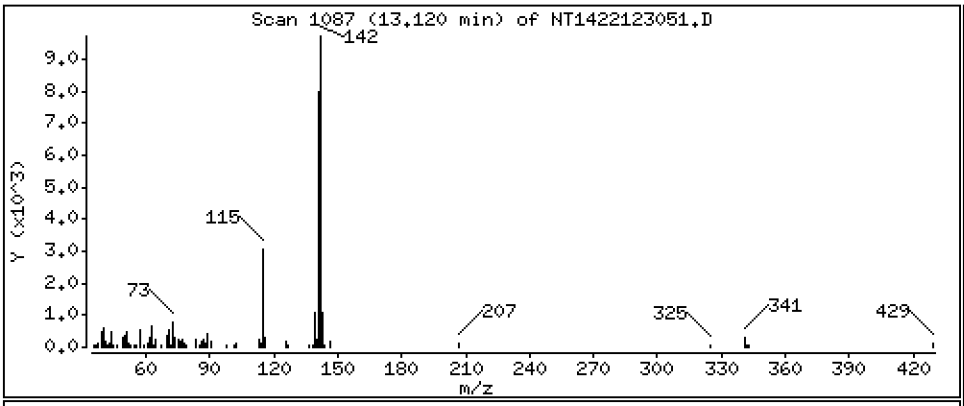
Operator: VTS

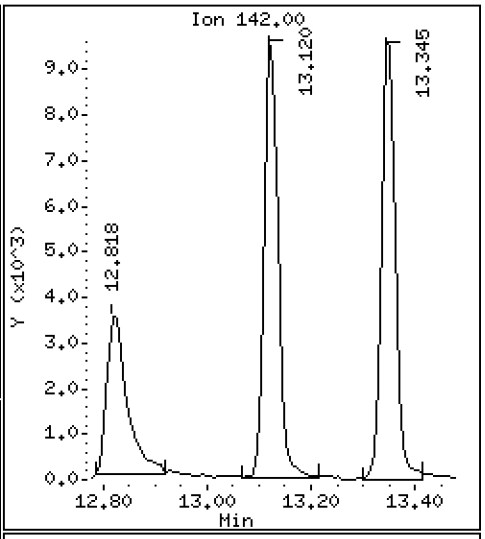
Column phase: ZB-5msi

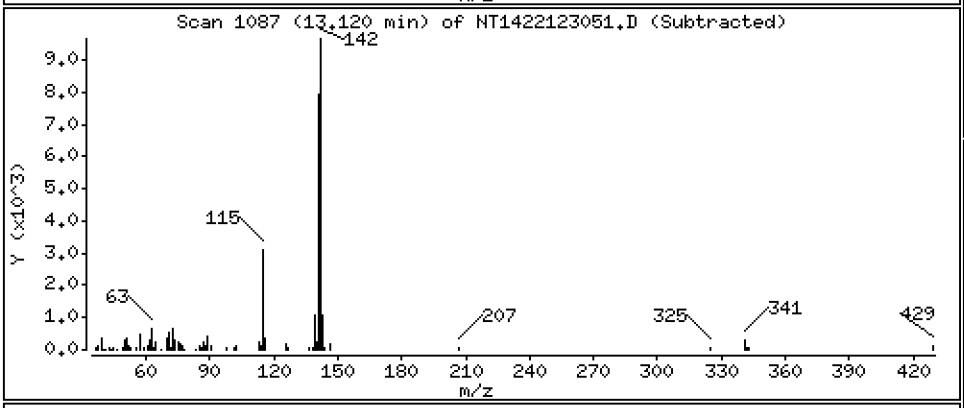
Column diameter: 0.25

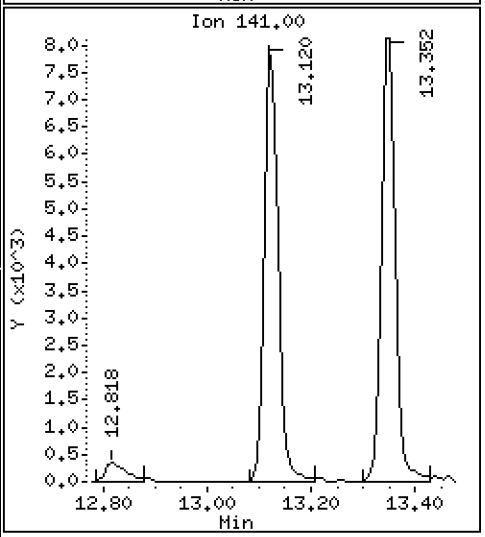
32 2-Methylnaphthalene

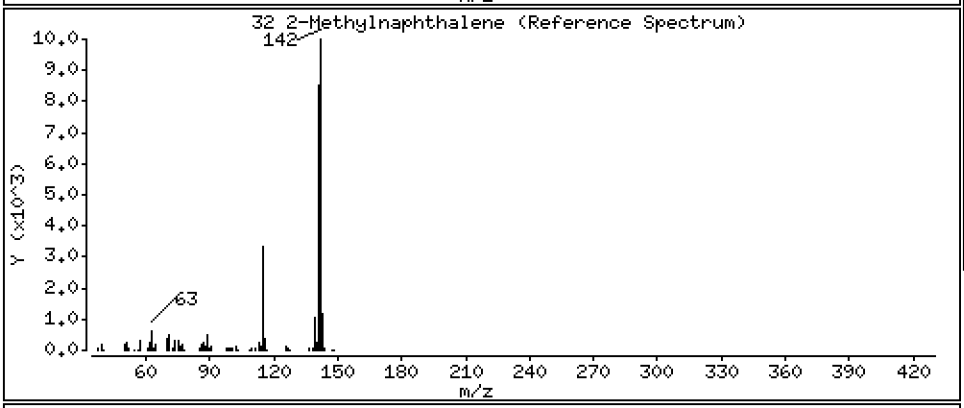
Concentration: 0.2231 ug/mL

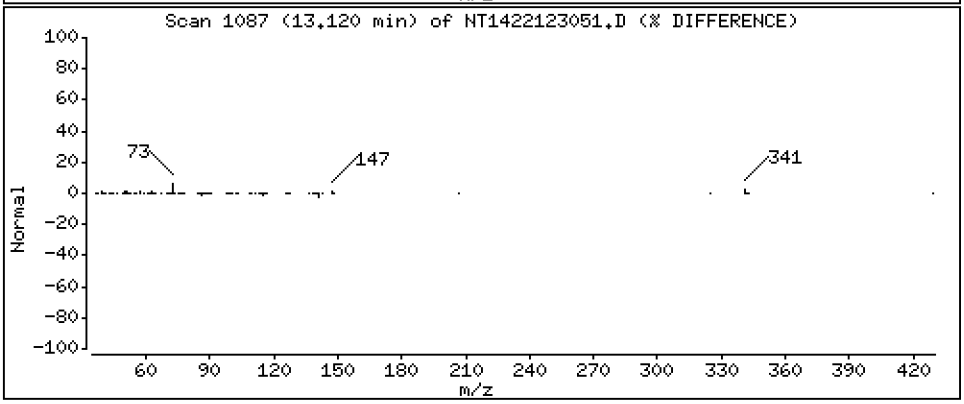












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

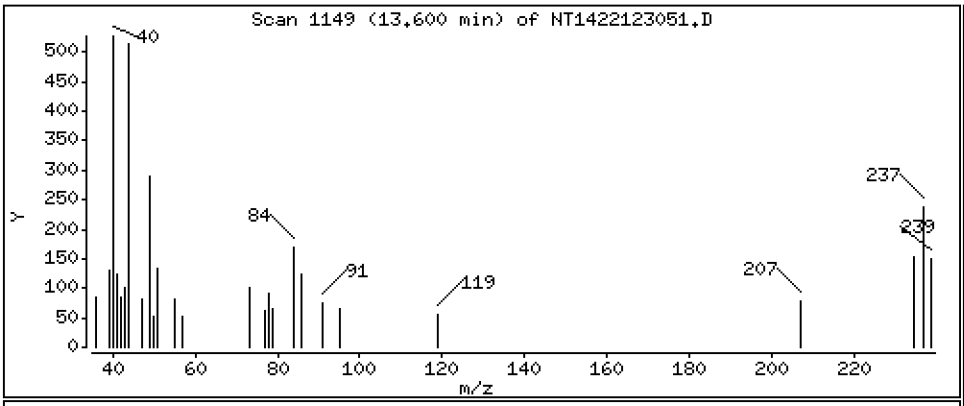
Operator: VTS

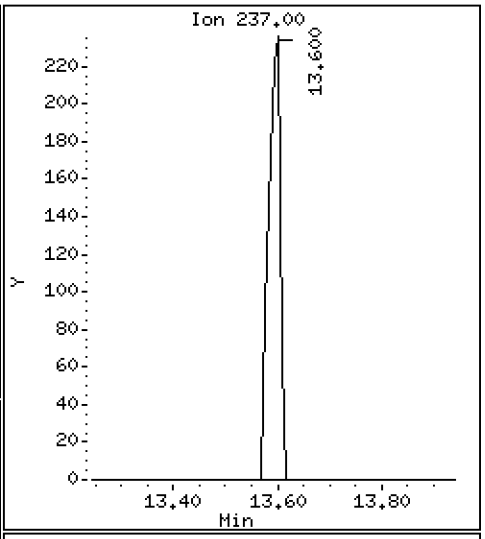
Column phase: ZB-5msi

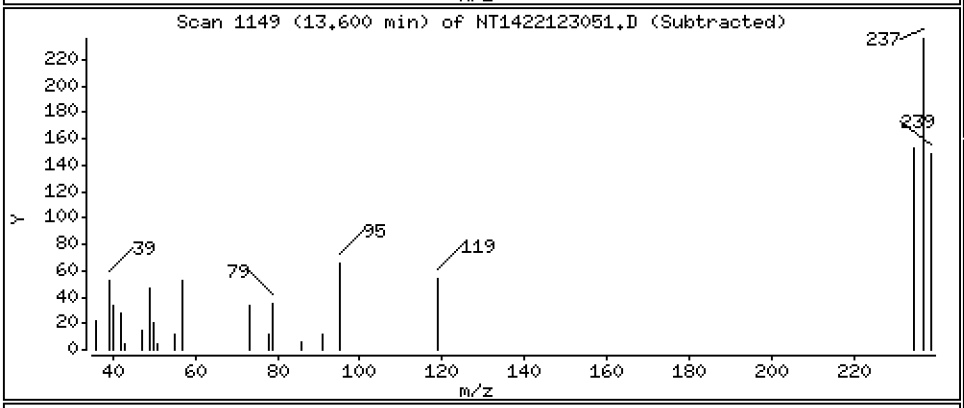
Column diameter: 0.25

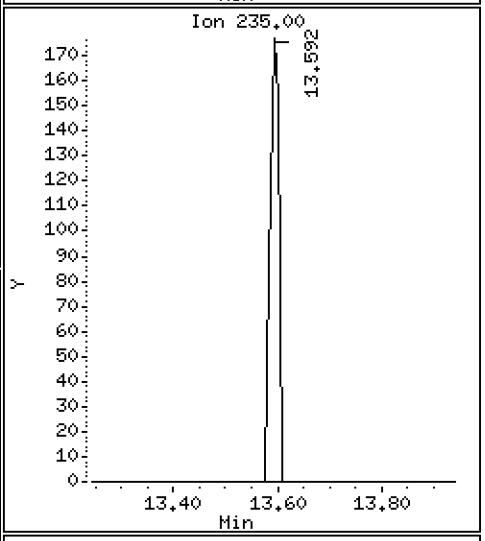
33 Hexachlorocyclopentadiene

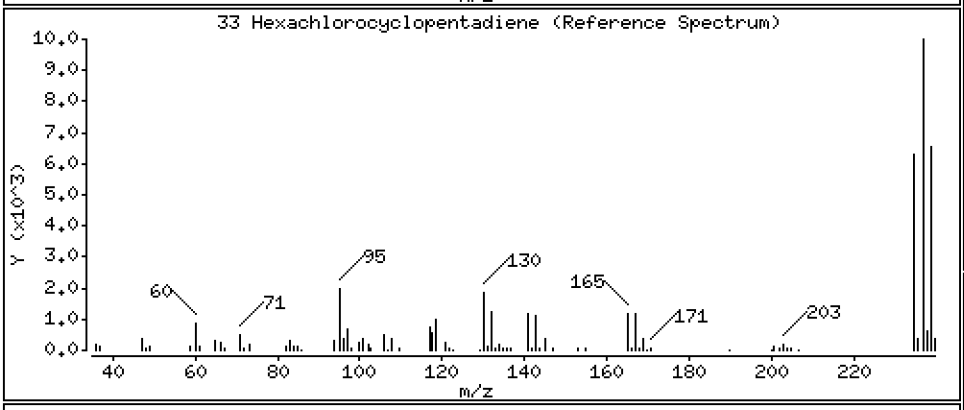
Concentration: 0.02150 ug/mL

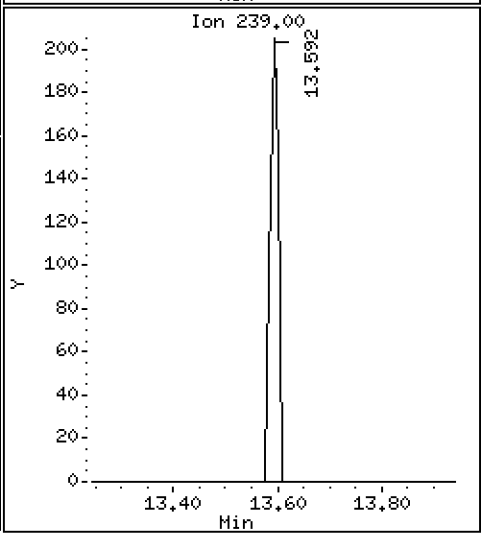


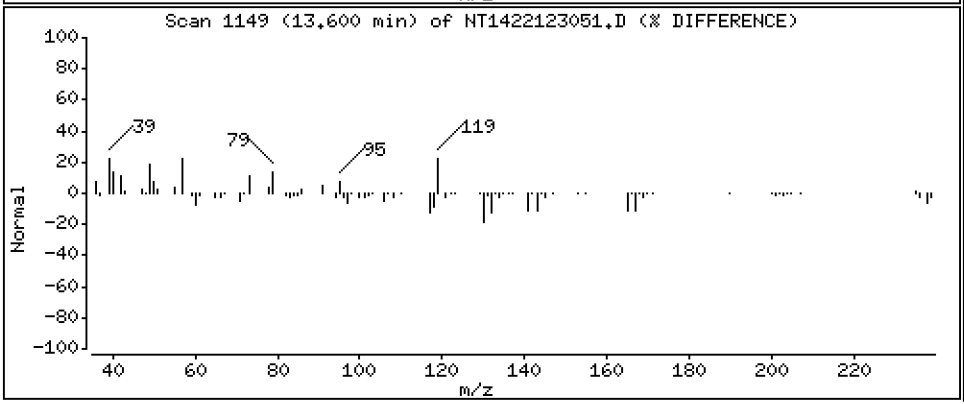












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

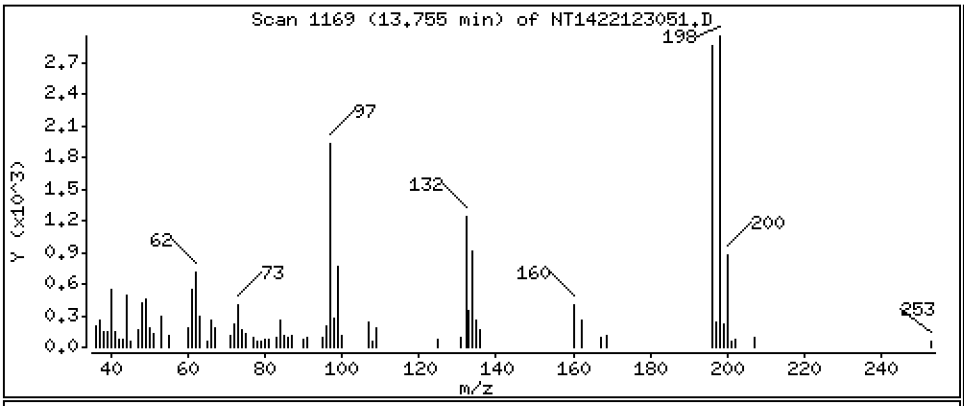
Operator: VTS

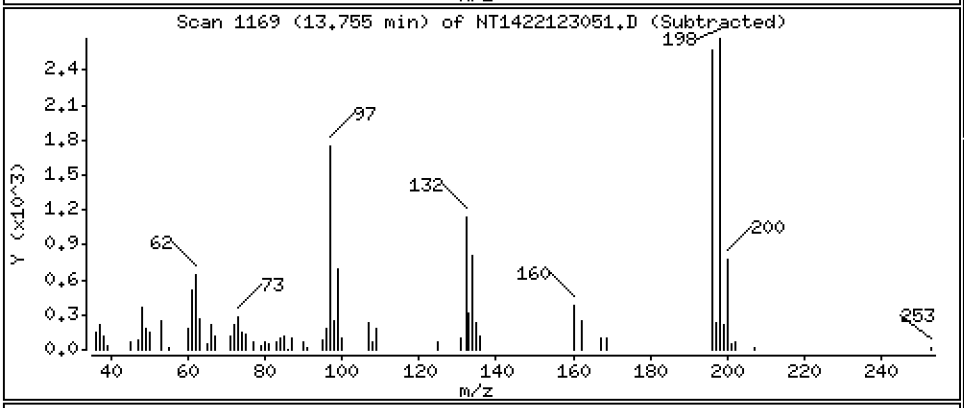
Column phase: ZB-5msi

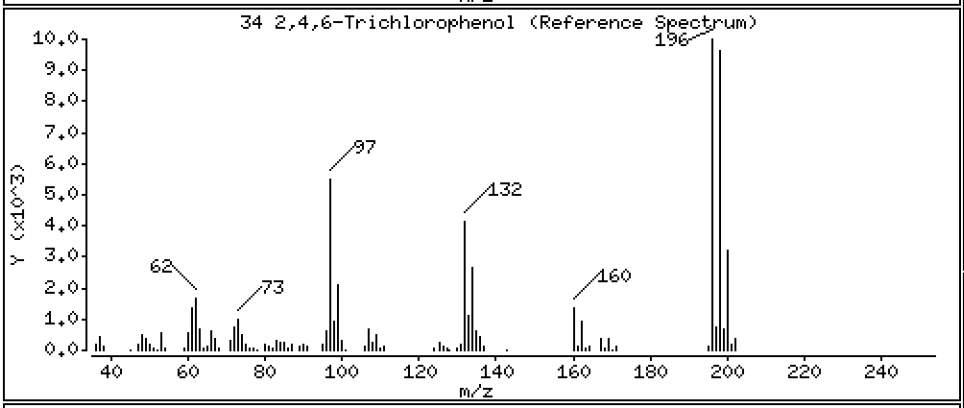
Column diameter: 0.25

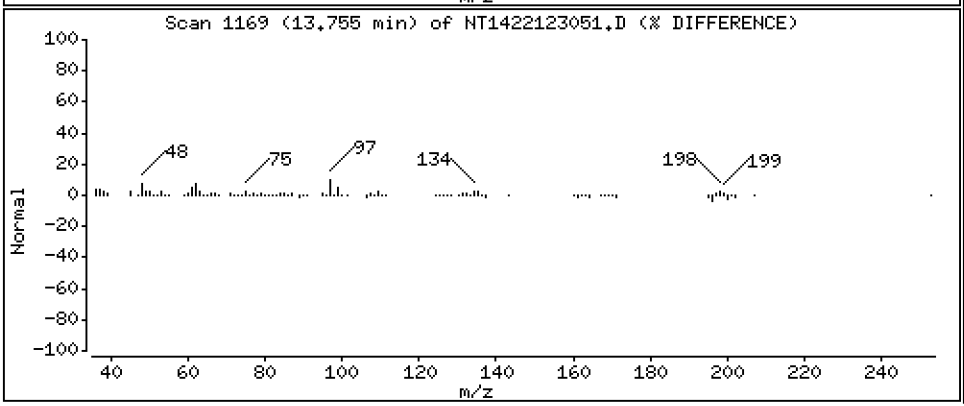
34 2,4,6-Trichlorophenol

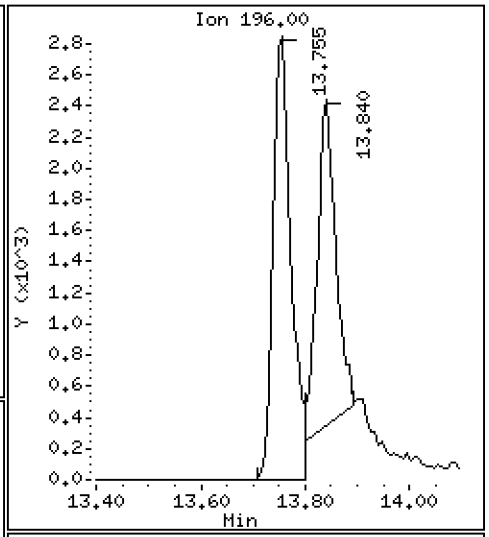
Concentration: 0.3746 ug/mL

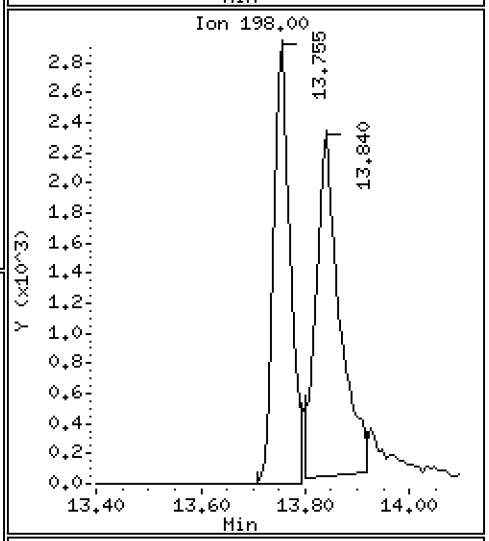


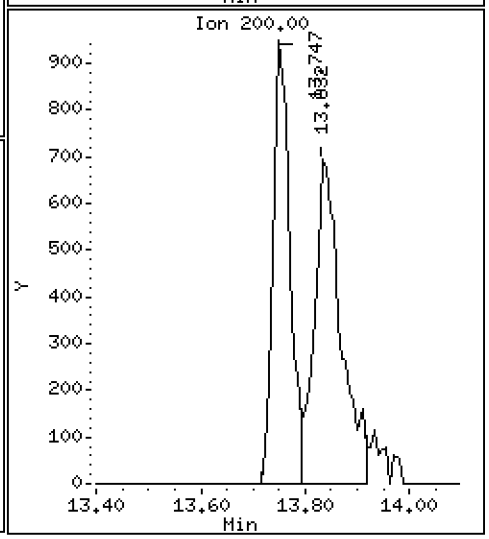












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

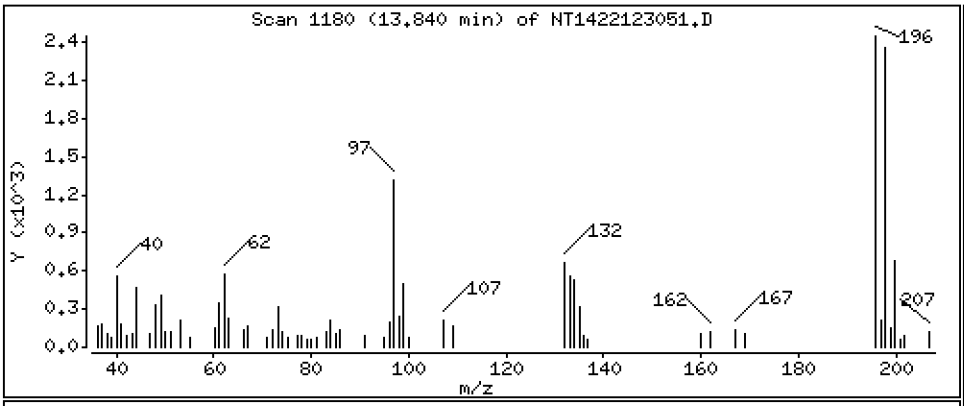
Operator: VTS

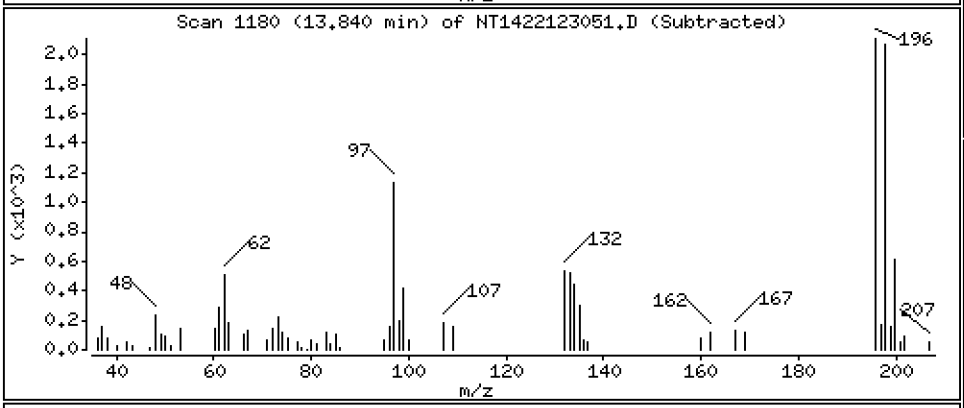
Column phase: ZB-5msi

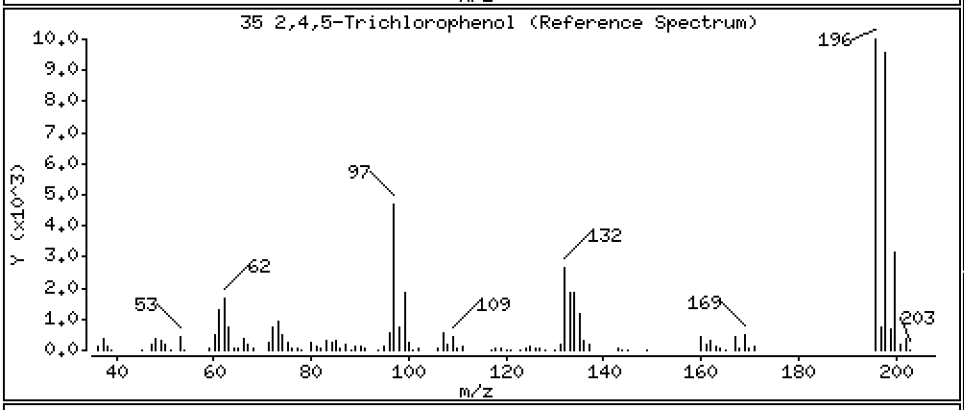
Column diameter: 0.25

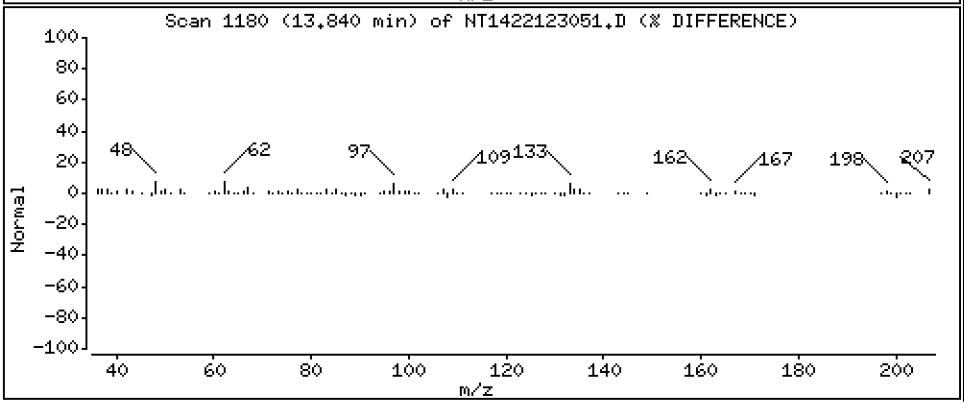
35 2,4,5-Trichlorophenol

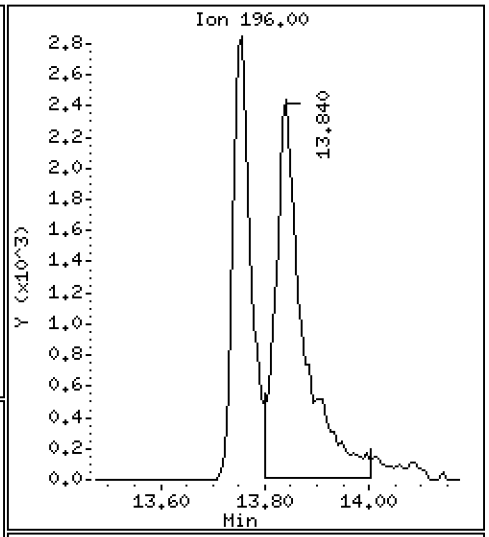
Concentration: 0.4316 ug/mL

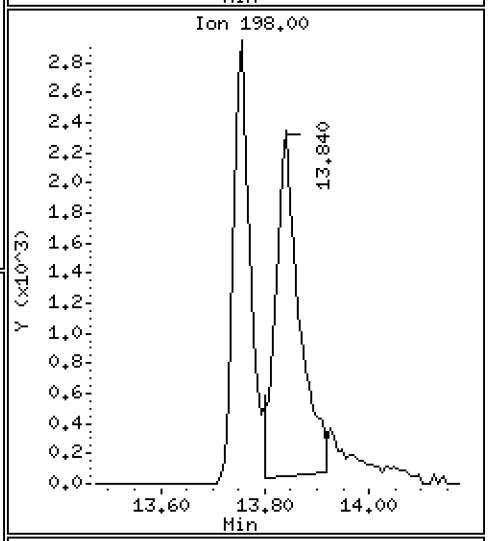


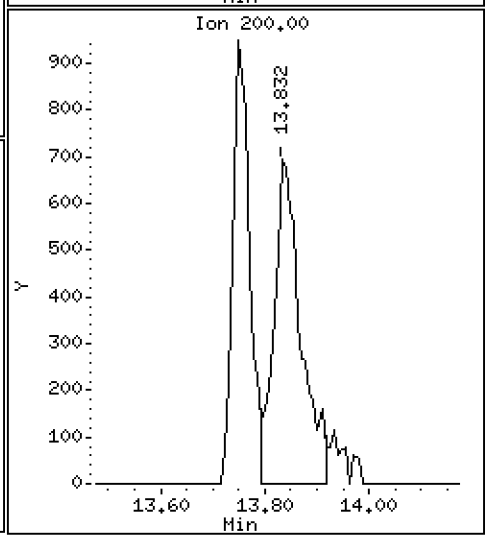












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

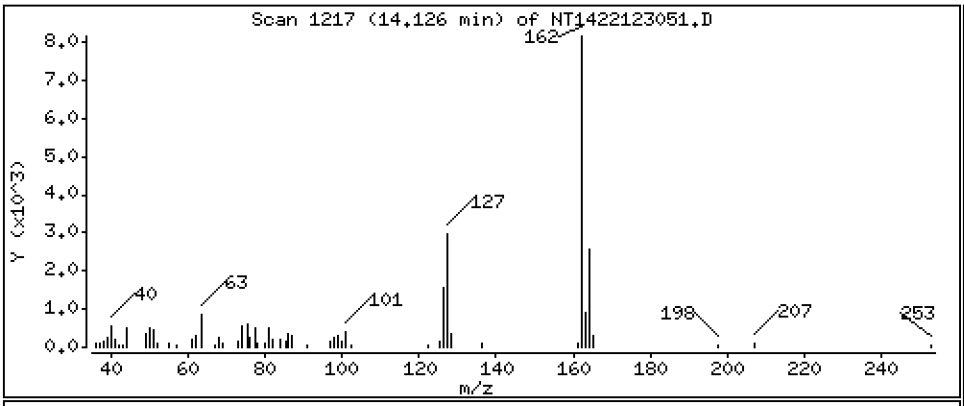
Operator: VTS

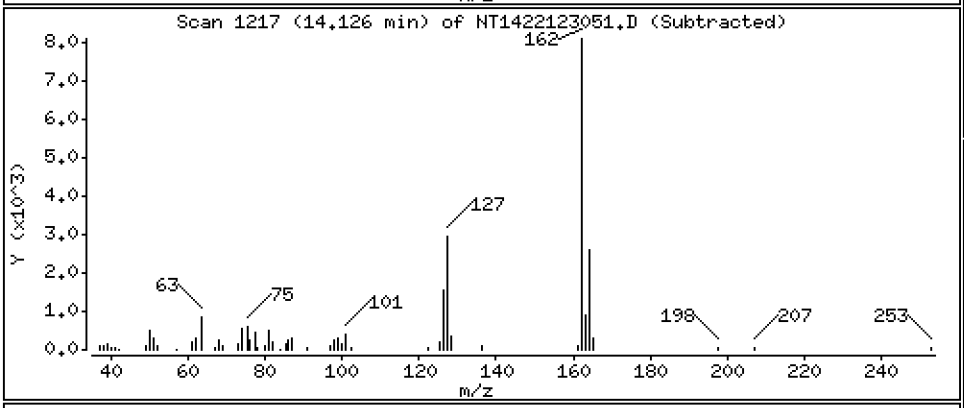
Column phase: ZB-5msi

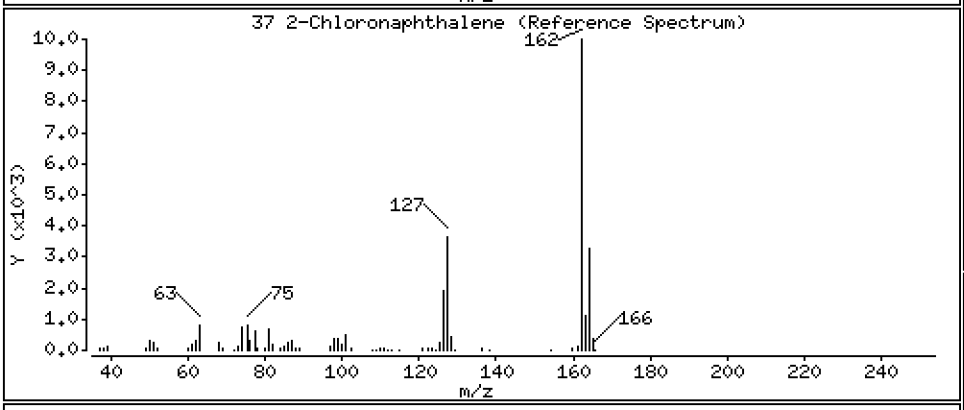
Column diameter: 0.25

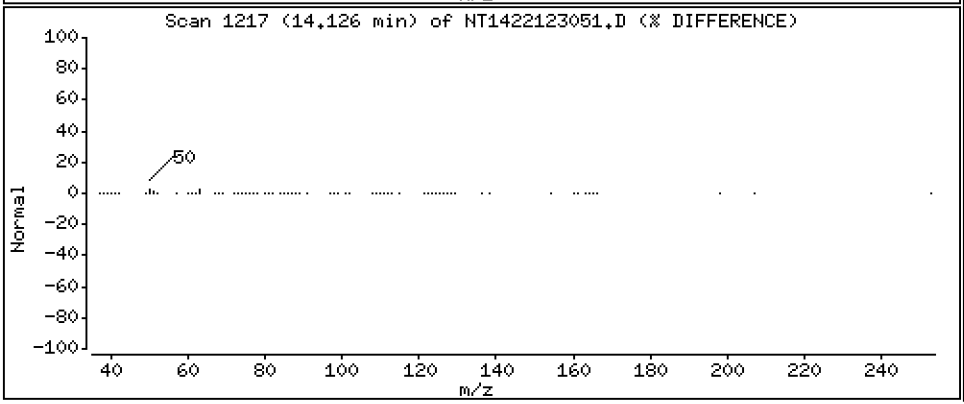
37 2-Chloronaphthalene

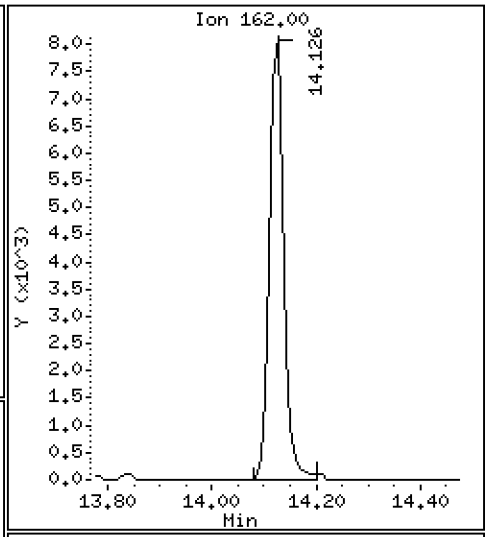
Concentration: 0.2372 ug/mL

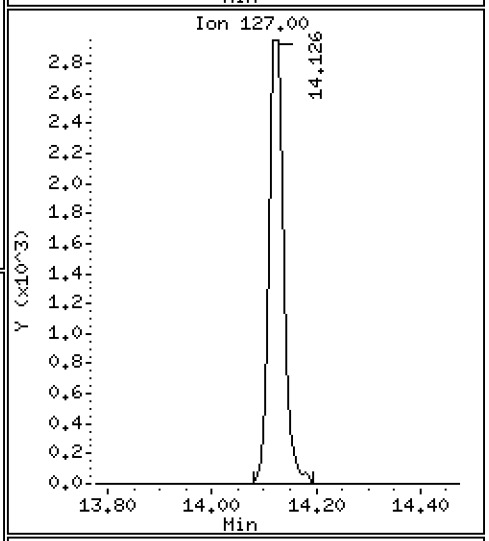


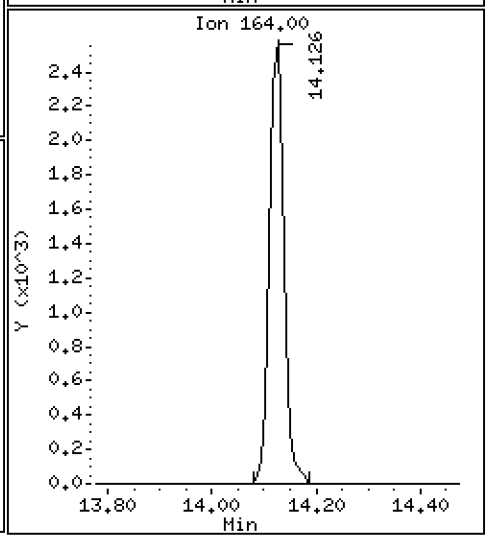












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

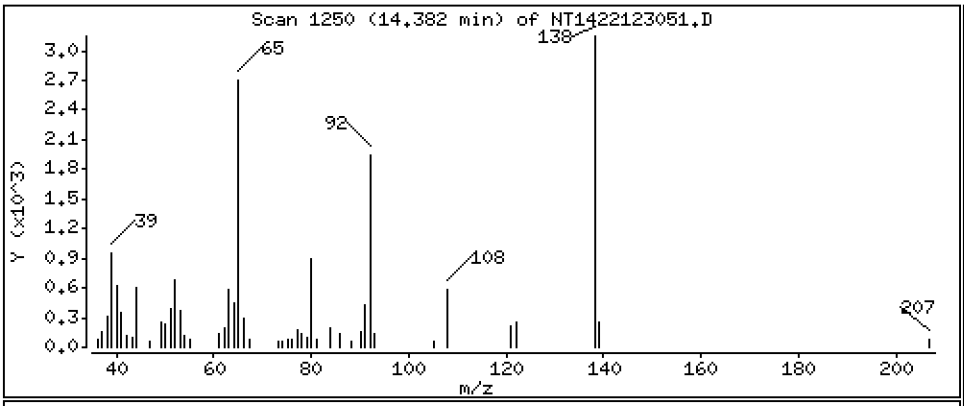
Operator: VTS

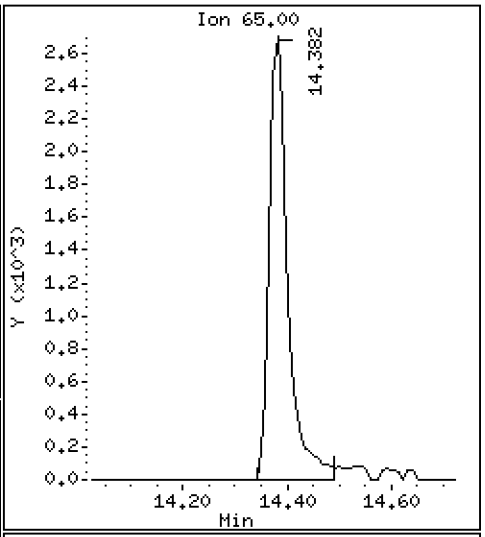
Column phase: ZB-5msi

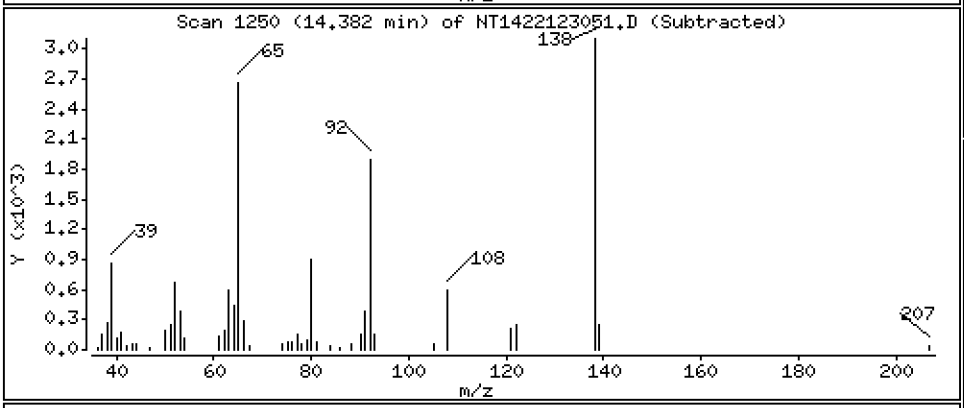
Column diameter: 0.25

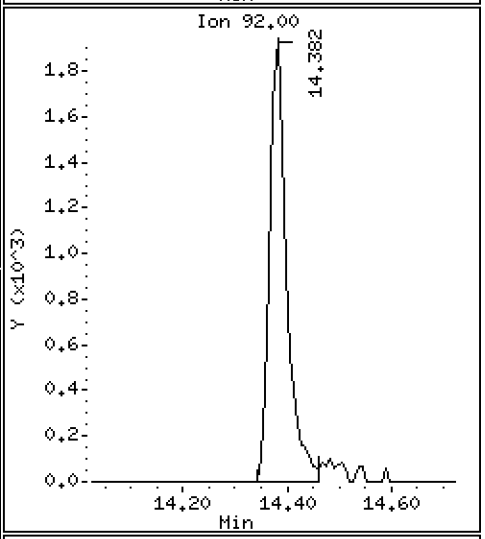
38 2-Nitroaniline

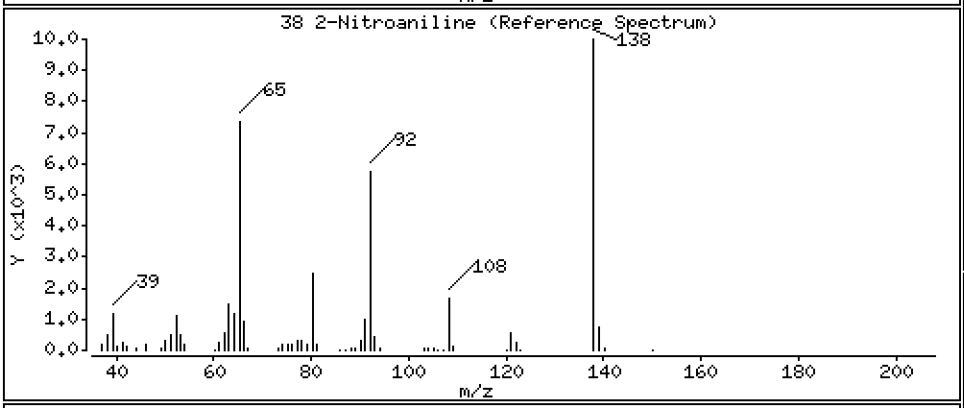
Concentration: 0.3972 ug/mL

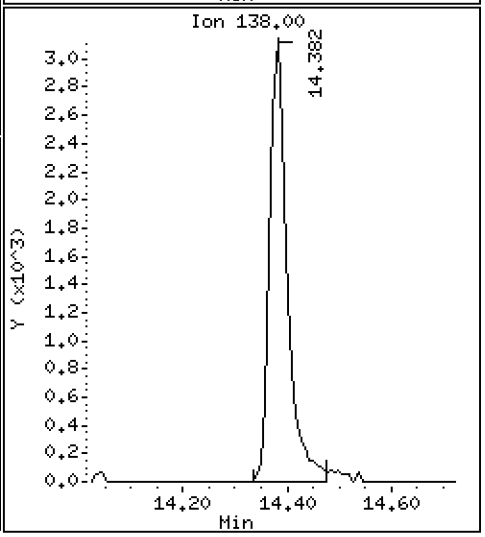


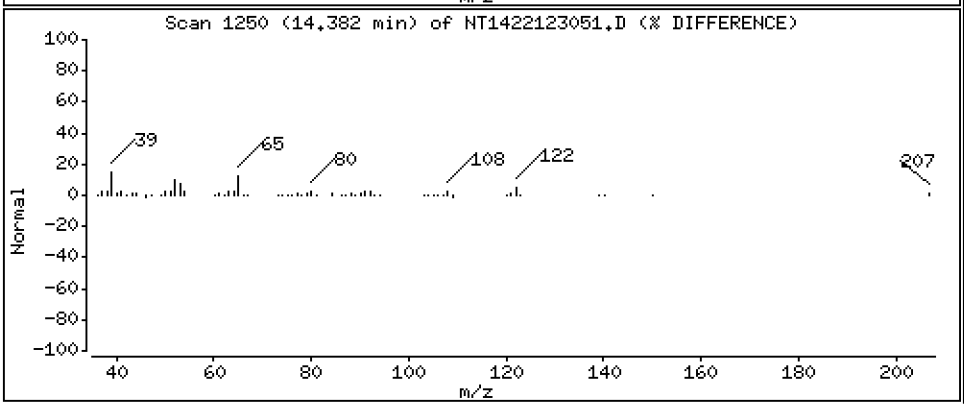












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

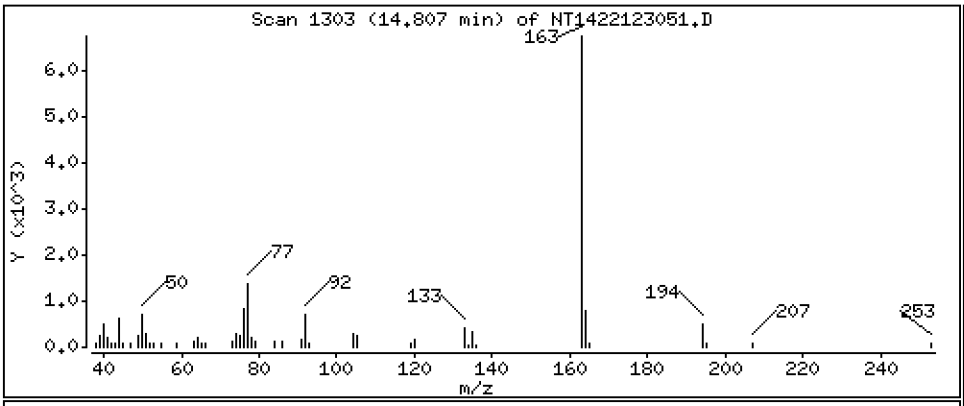
Operator: VTS

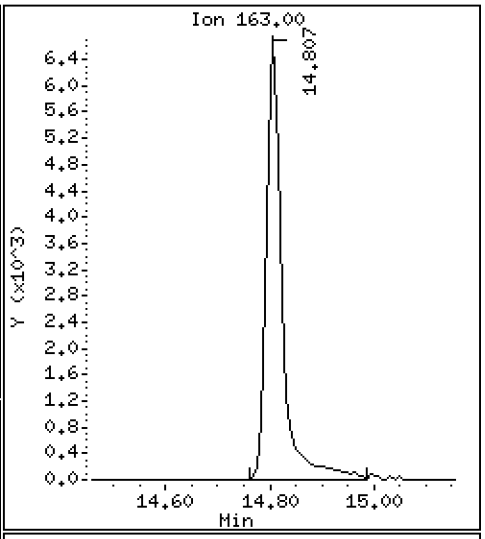
Column phase: ZB-5msi

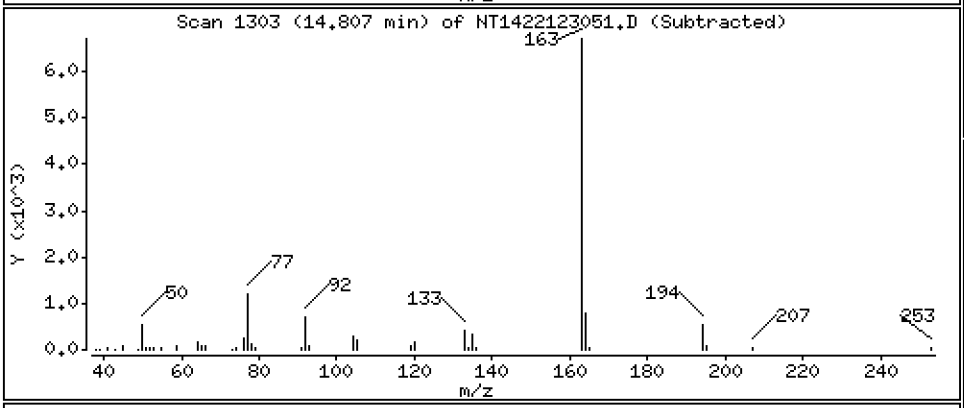
Column diameter: 0.25

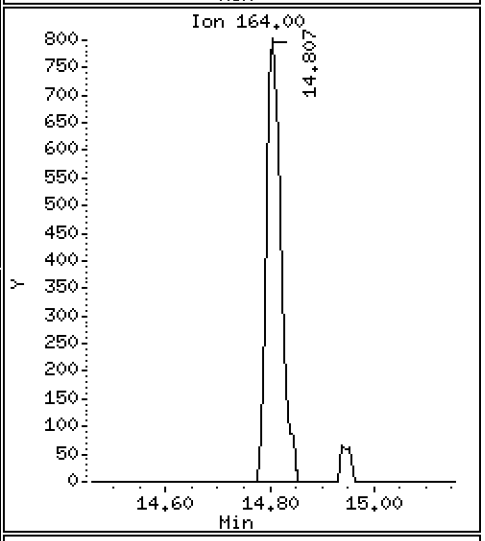
39 Dimethylphthalate

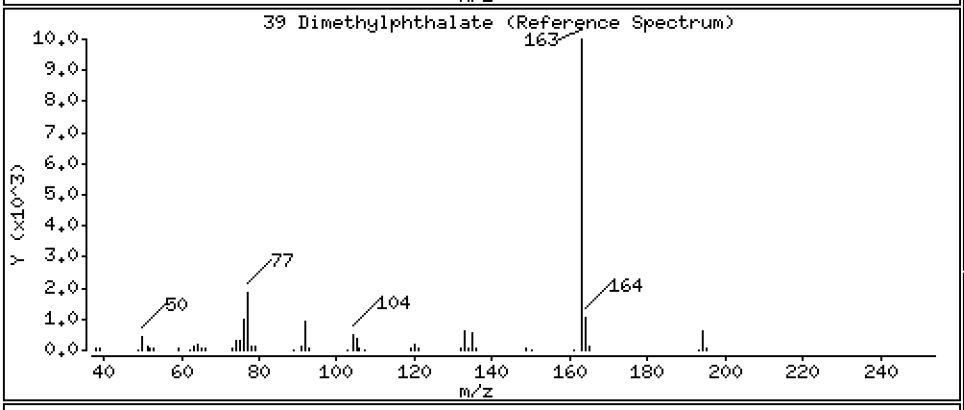
Concentration: 0.2231 ug/mL

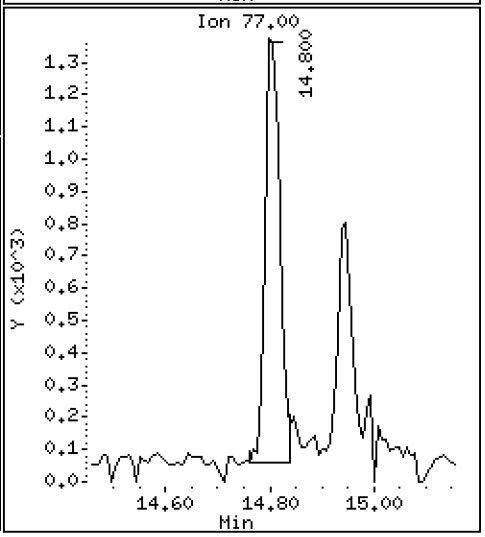


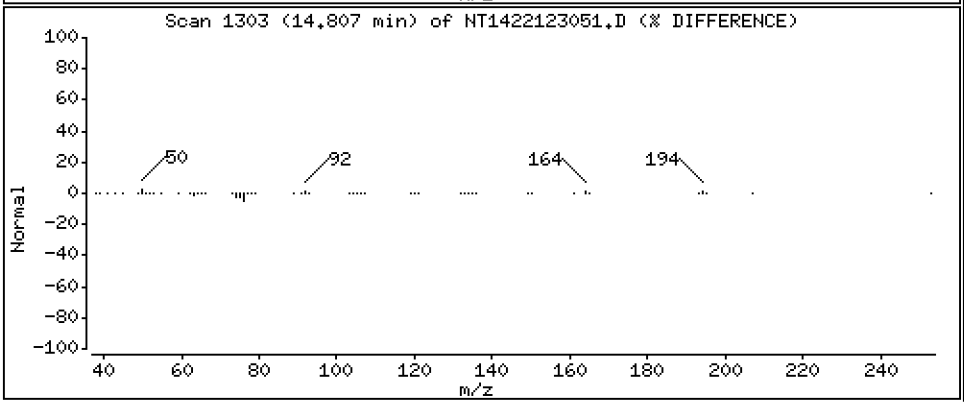












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

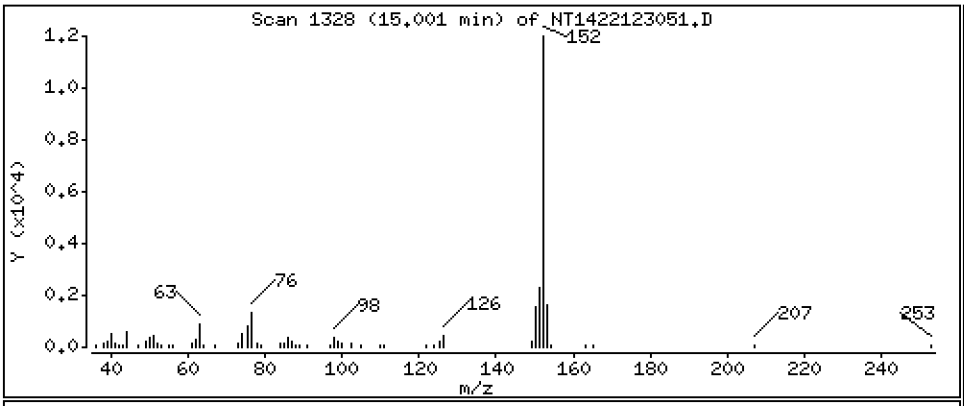
Operator: VTS

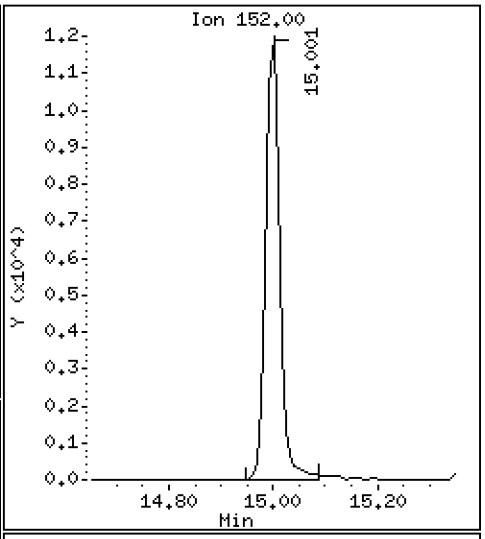
Column phase: ZB-5msi

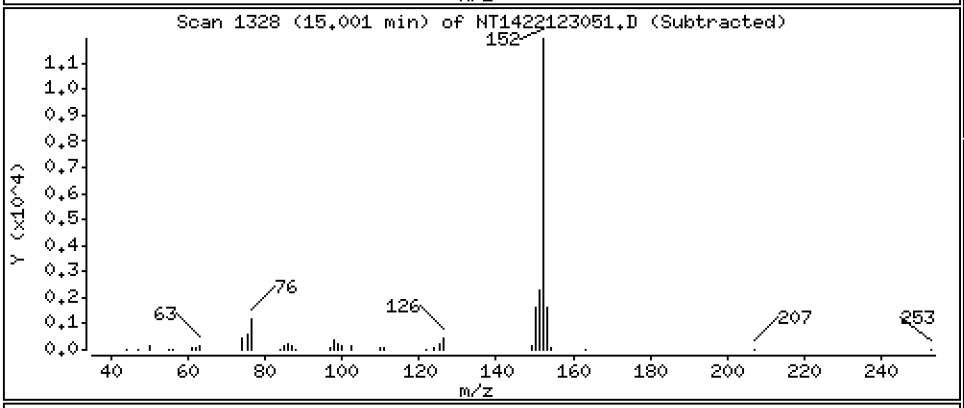
Column diameter: 0.25

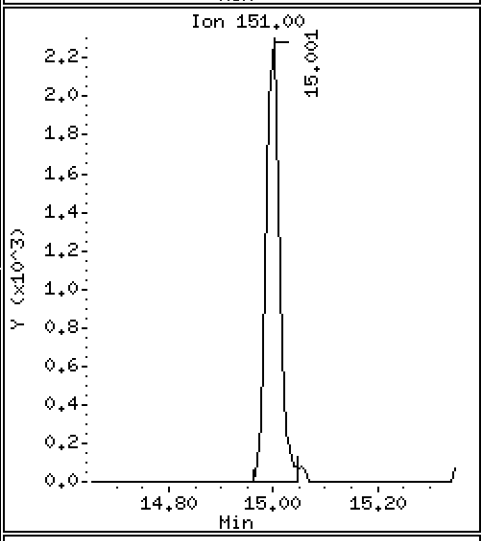
40 Acenaphthylene

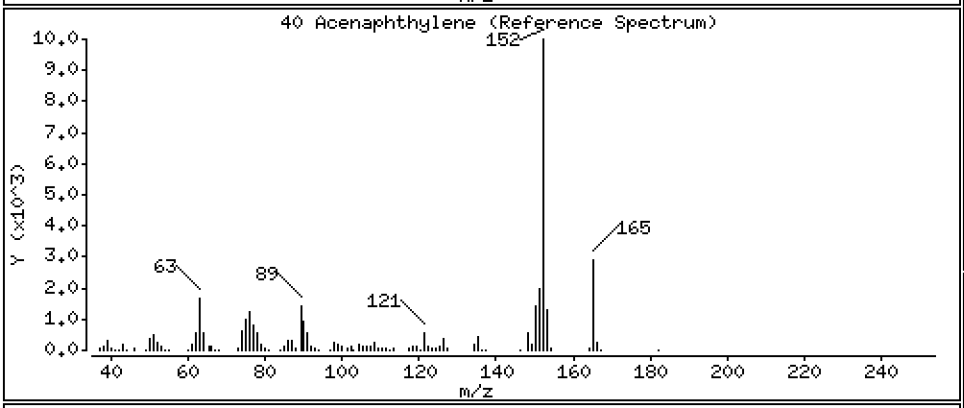
Concentration: 0.2256 ug/mL

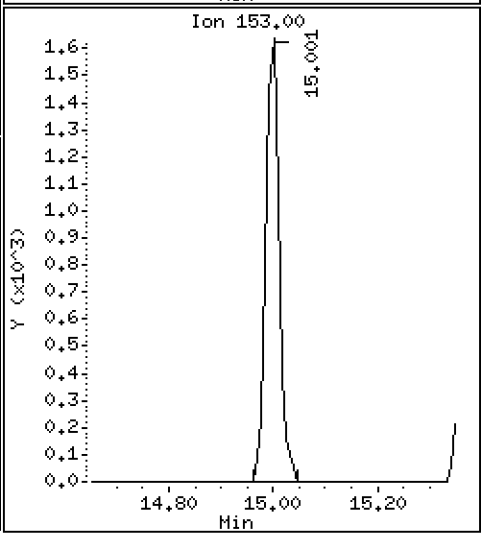


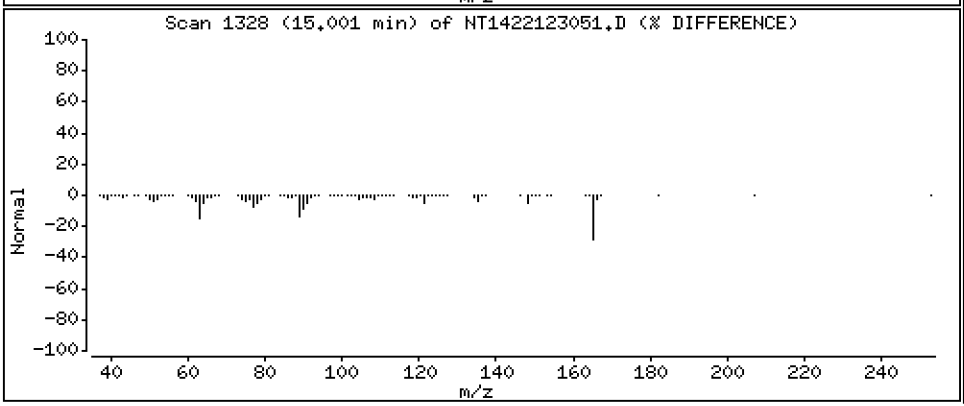












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

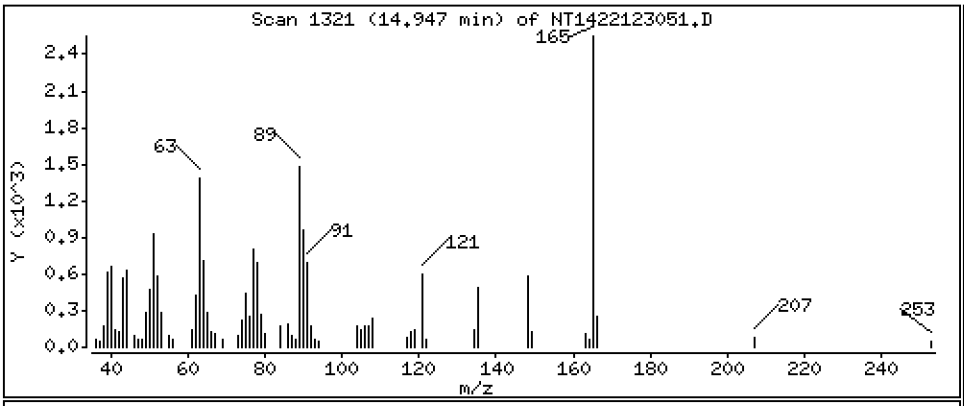
Operator: VTS

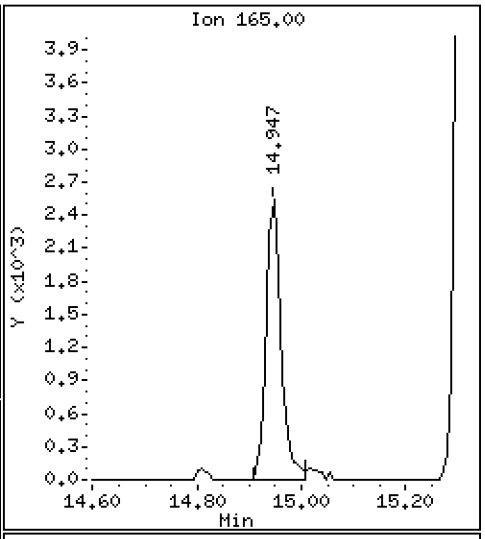
Column phase: ZB-5msi

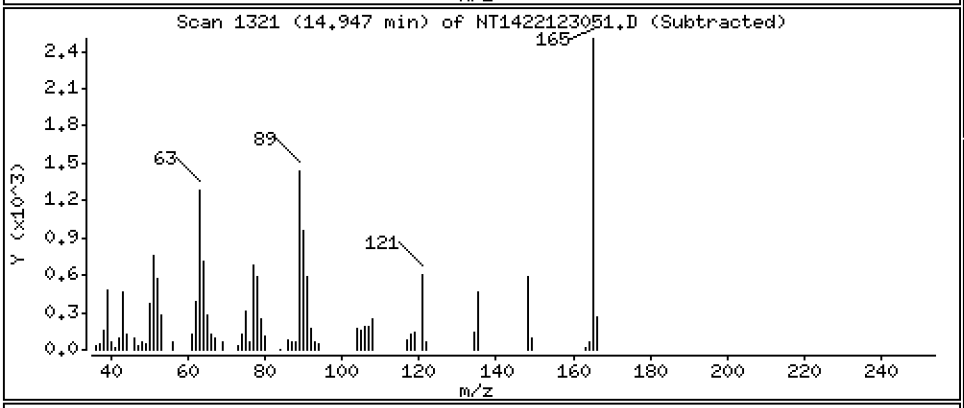
Column diameter: 0.25

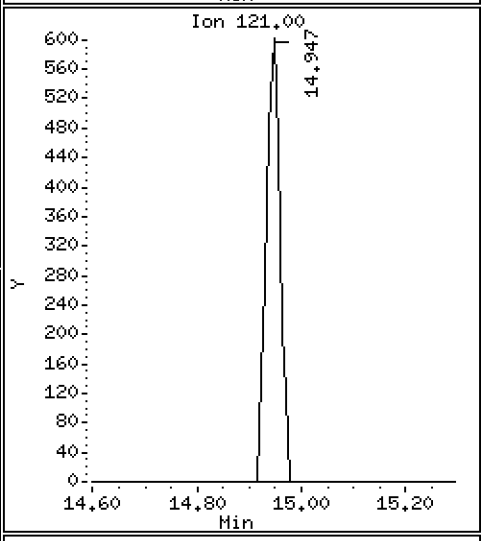
41 2,6-Dinitrotoluene

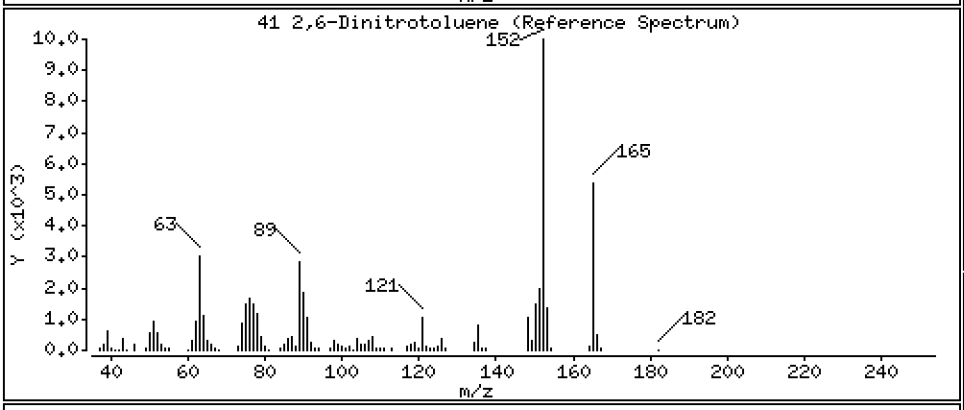
Concentration: 0.3515 ug/mL

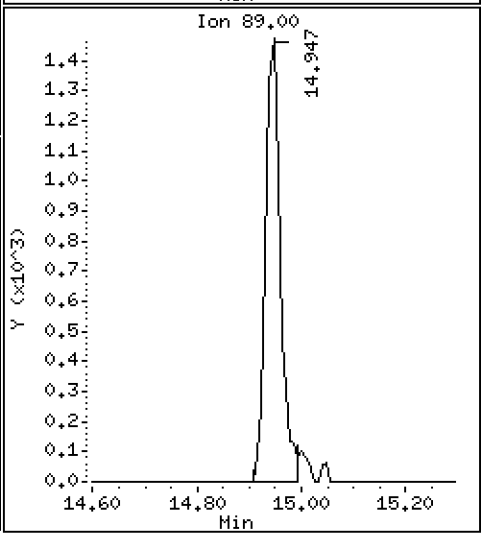


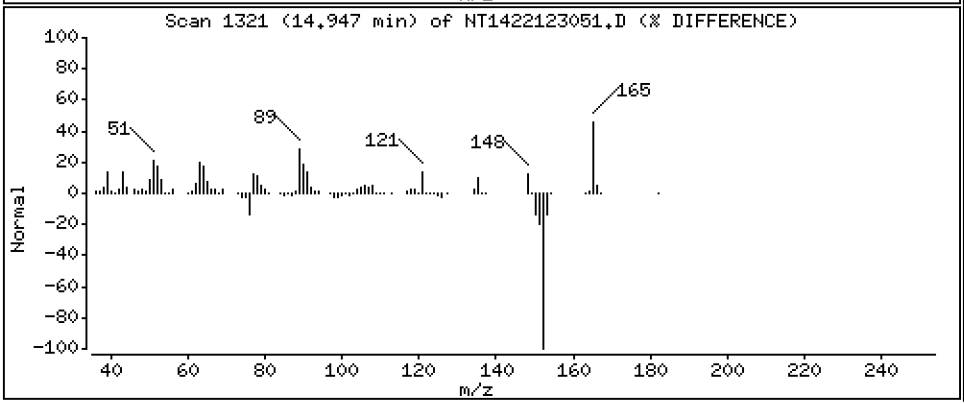












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

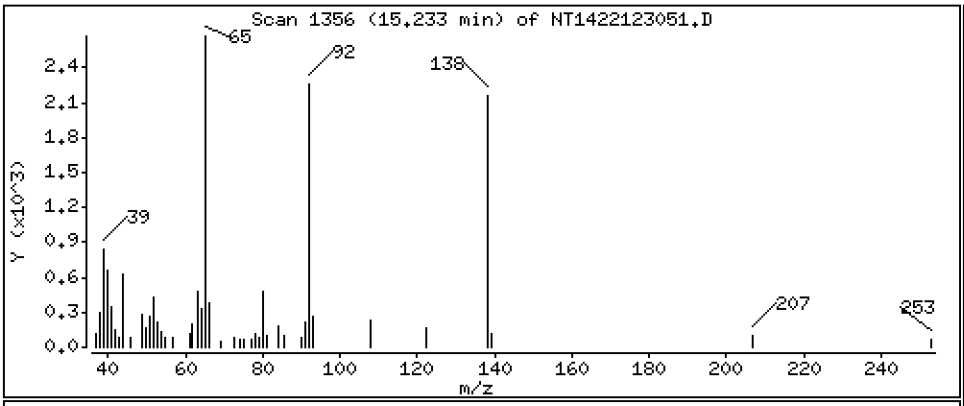
Operator: VTS

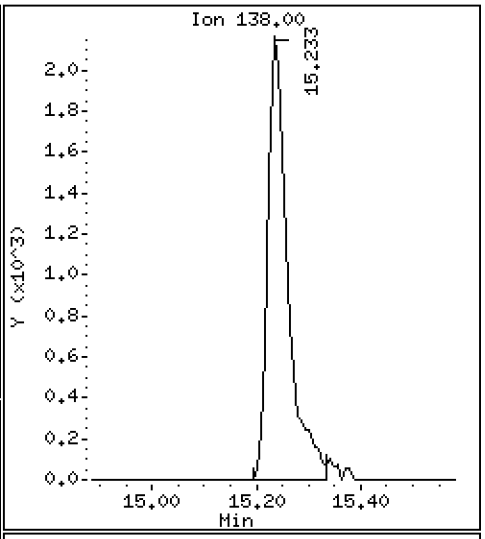
Column phase: ZB-5msi

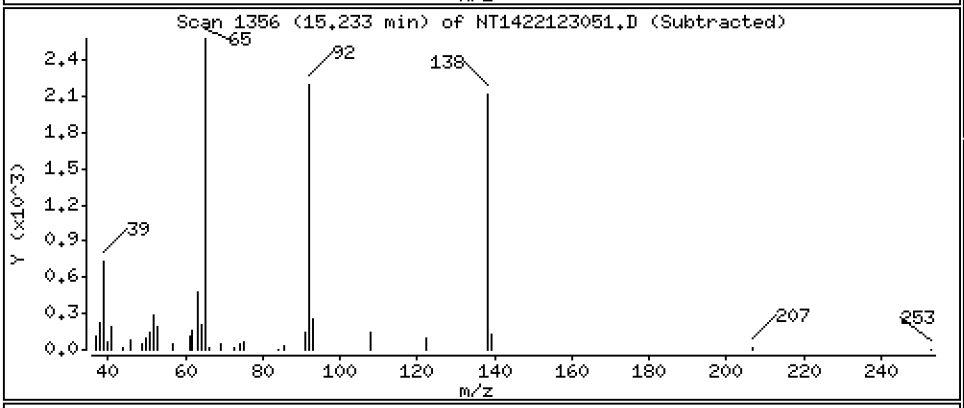
Column diameter: 0.25

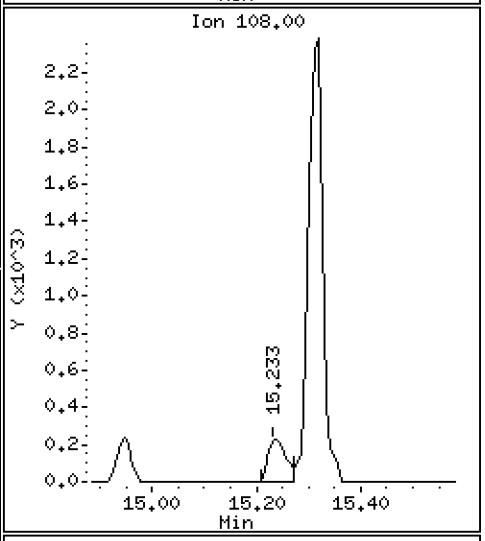
43 3-Nitroaniline

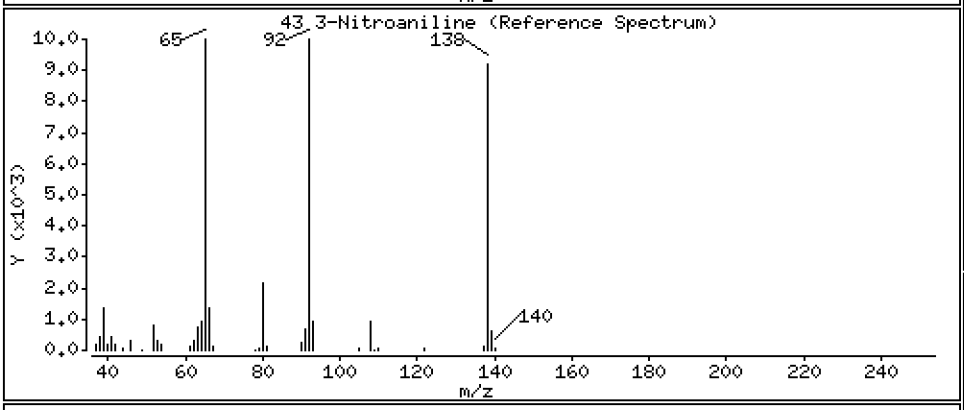
Concentration: 0.3370 ug/mL

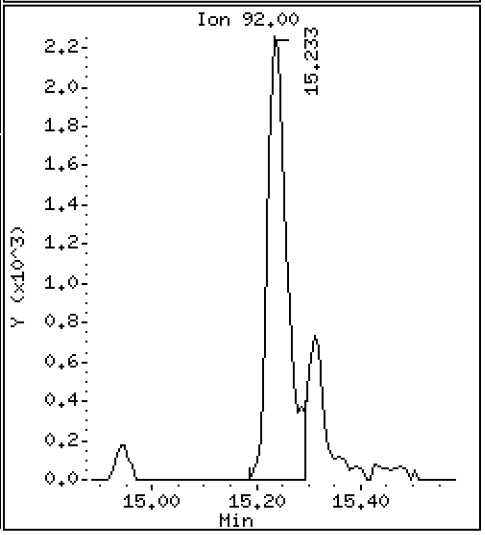


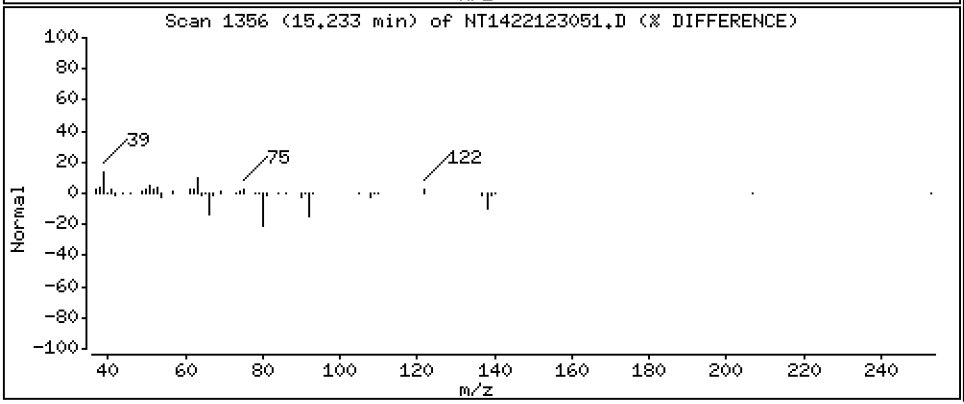












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

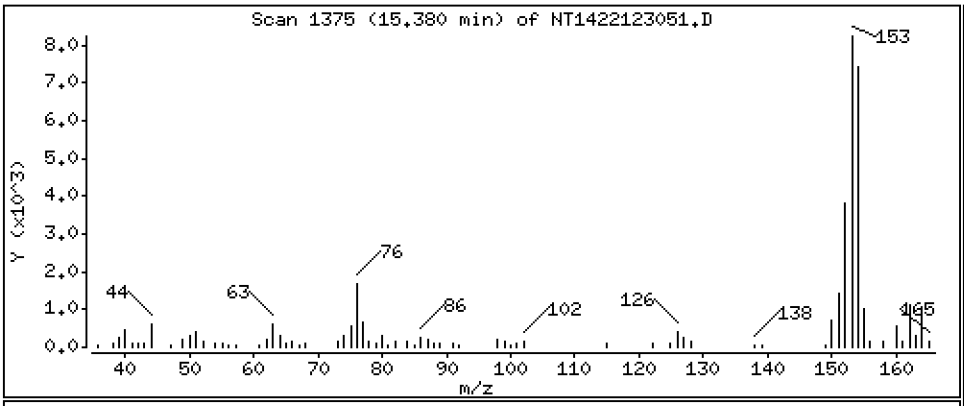
Operator: VTS

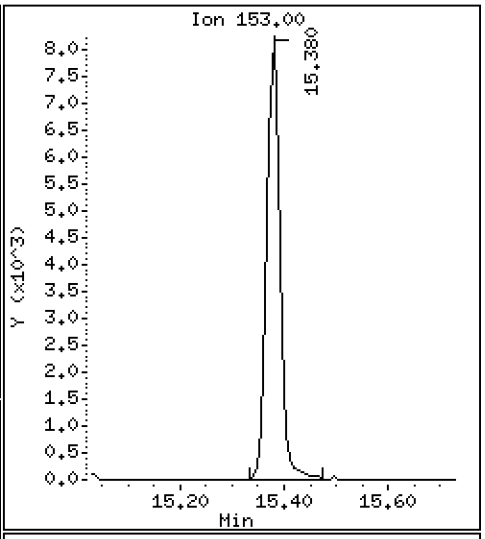
Column phase: ZB-5msi

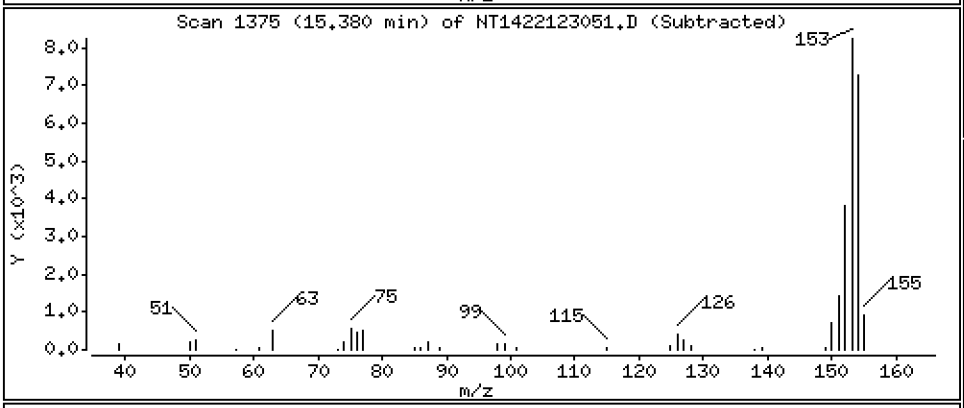
Column diameter: 0.25

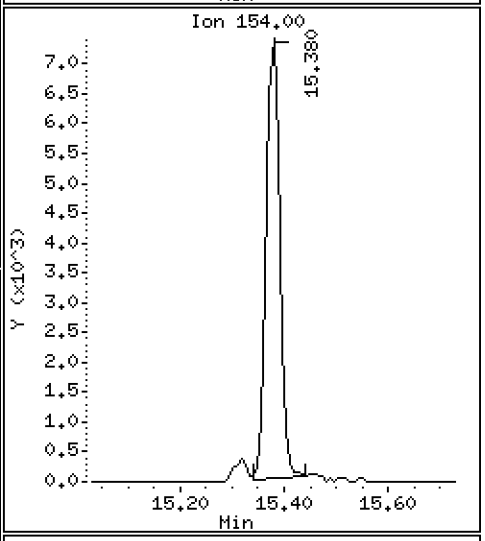
44 Acenaphthene

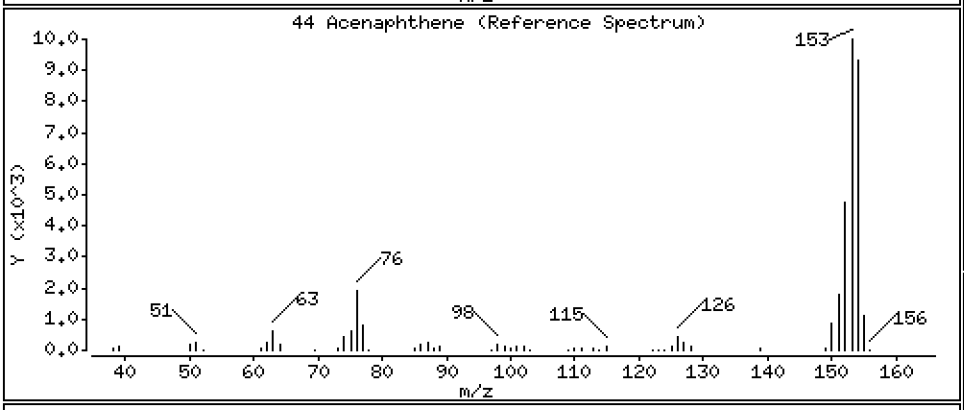
Concentration: 0.2351 ug/mL

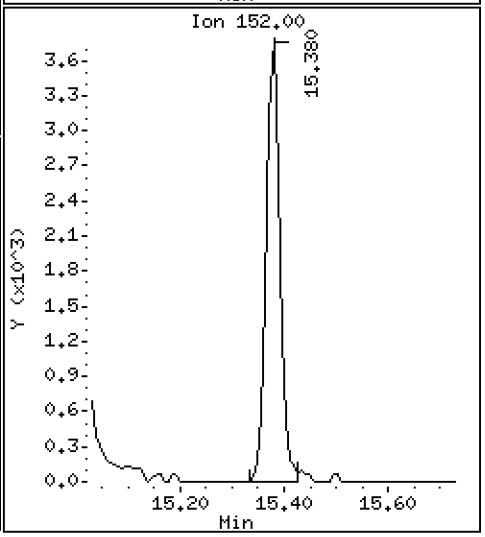


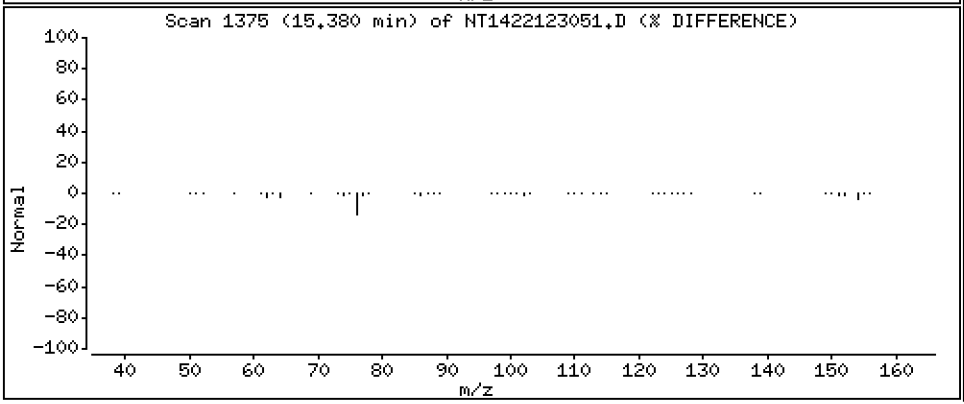












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

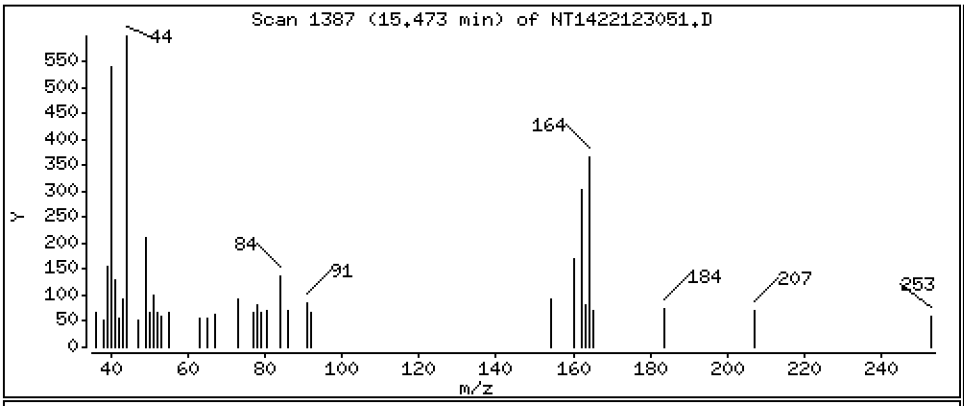
Operator: VTS

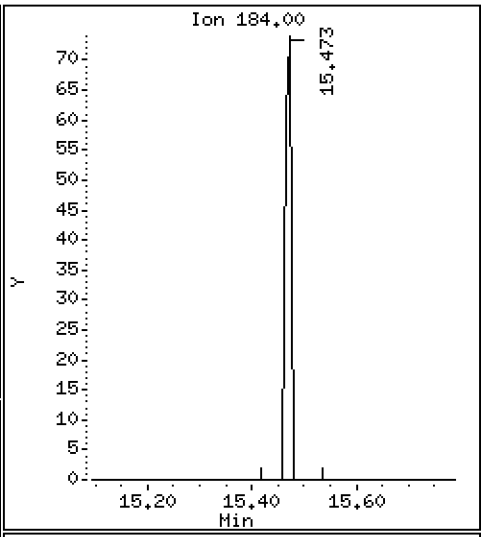
Column phase: ZB-5msi

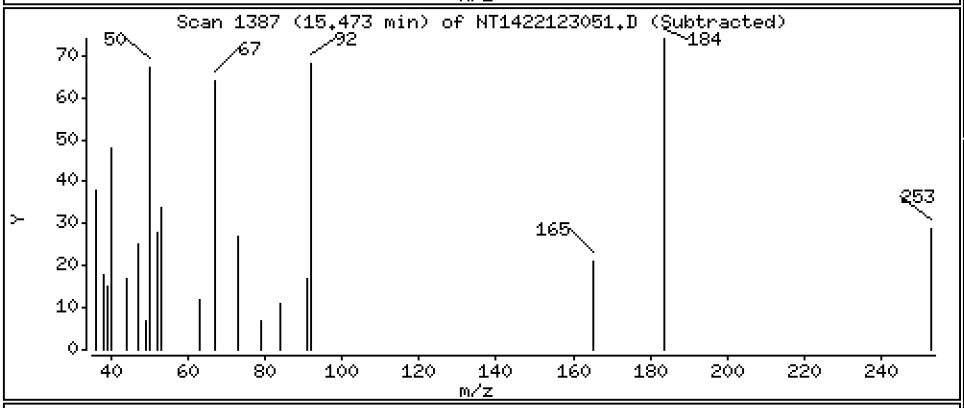
Column diameter: 0.25

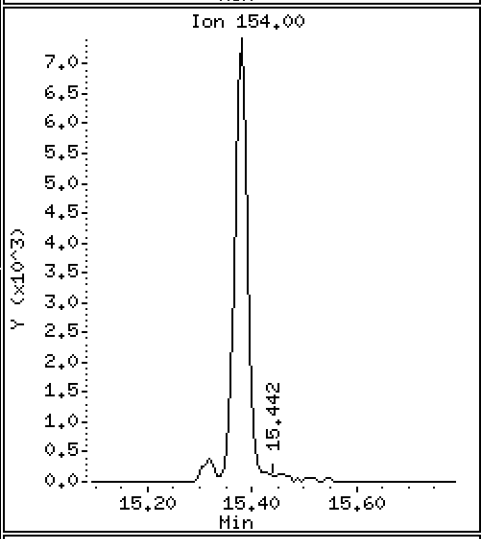
45 2,4-Dinitrophenol

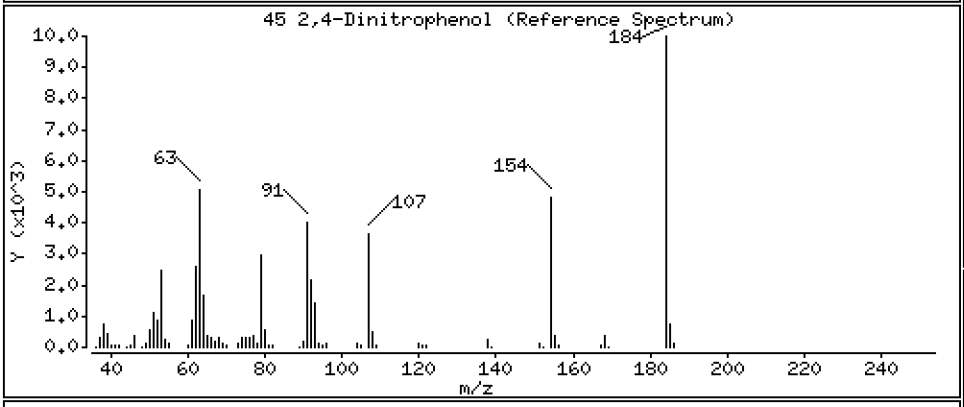
Concentration: 0.005296 ug/mL

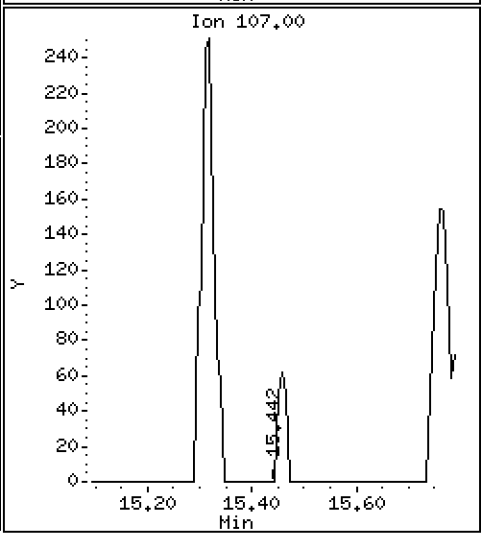


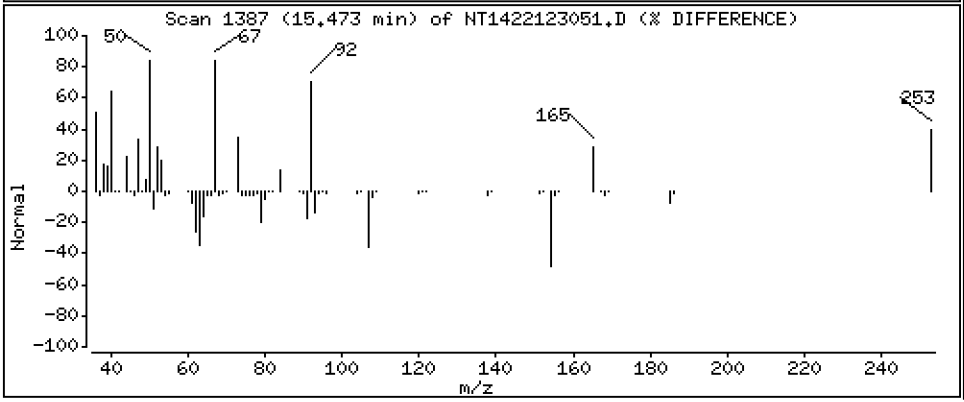












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

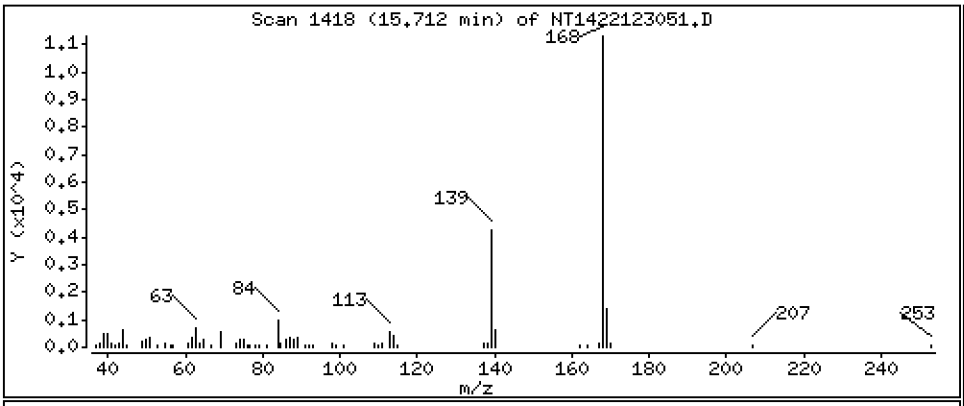
Operator: VTS

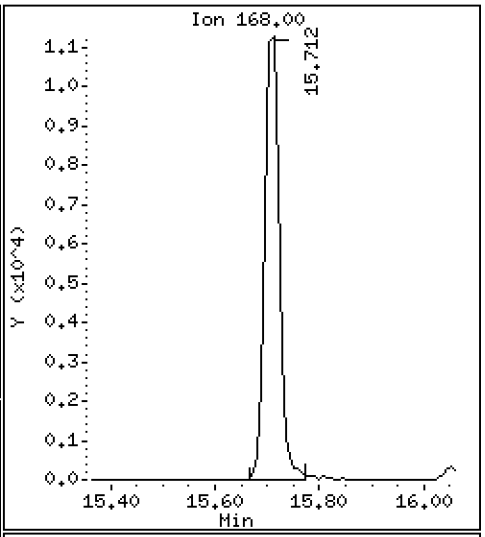
Column phase: ZB-5msi

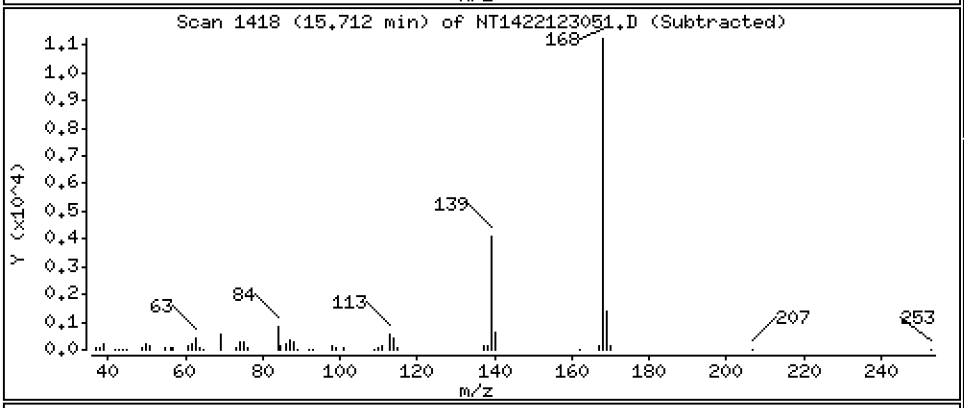
Column diameter: 0.25

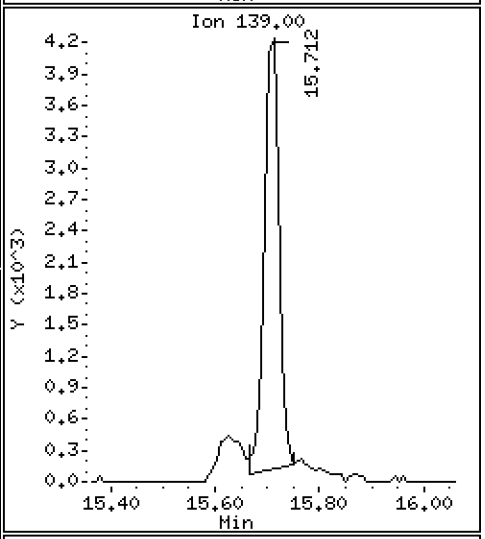
46 Dibenzofuran

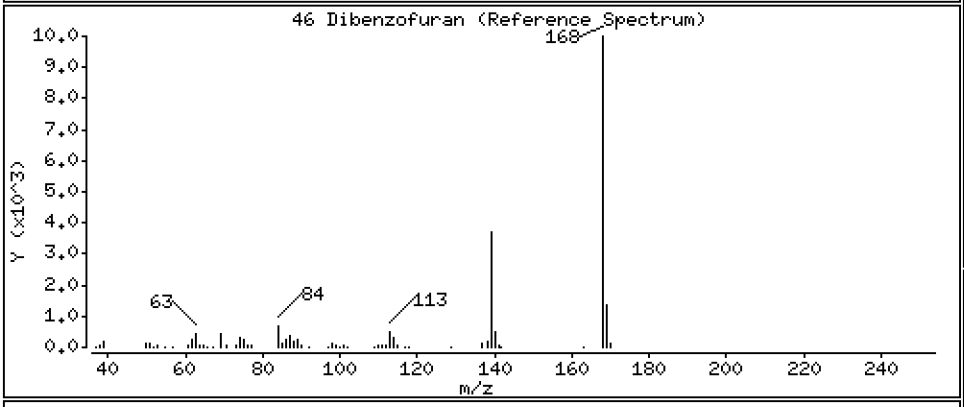
Concentration: 0.2405 ug/mL

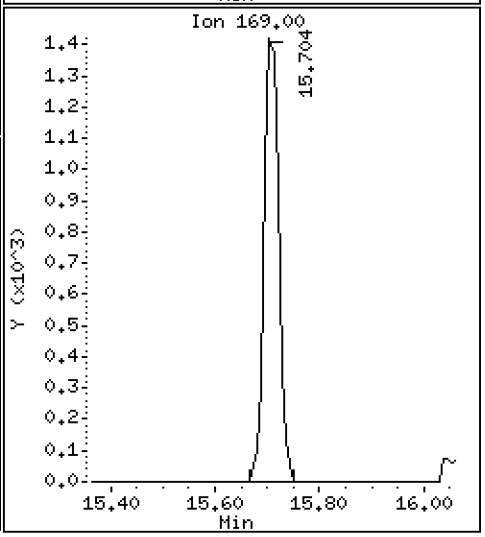


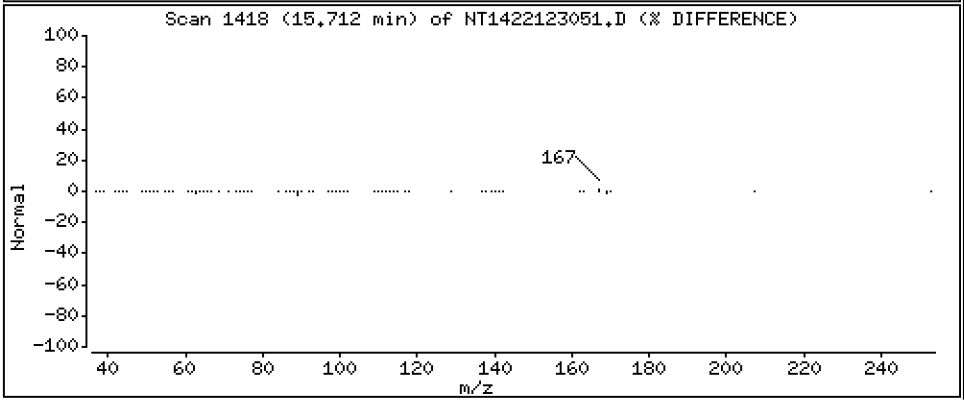












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

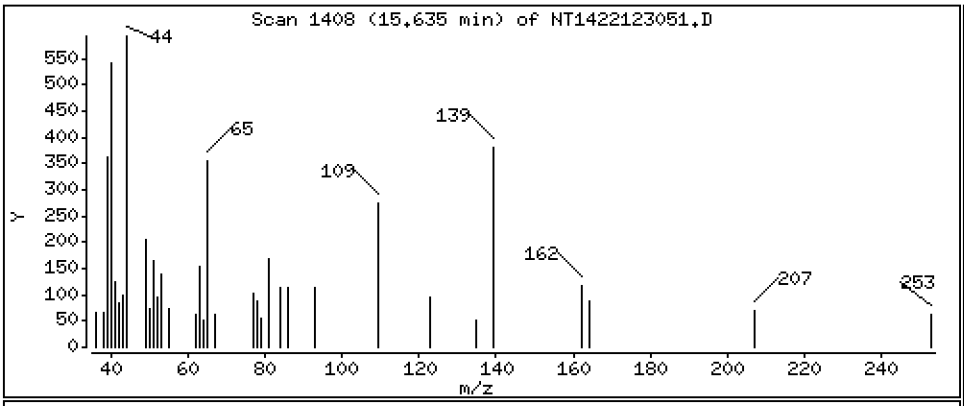
Operator: VTS

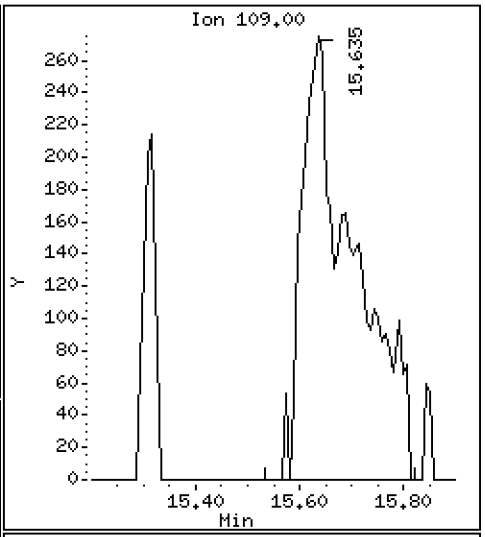
Column phase: ZB-5msi

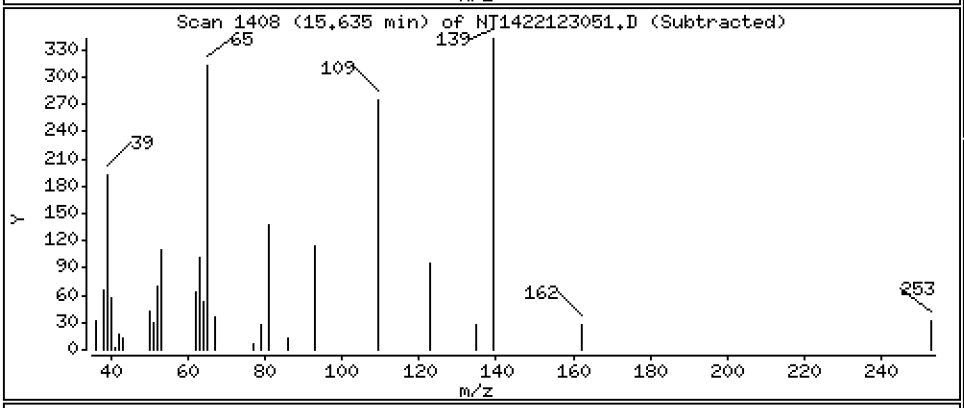
Column diameter: 0.25

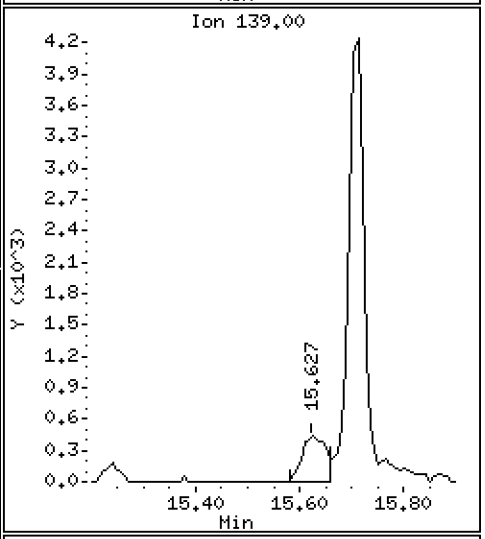
47 4-Nitrophenol

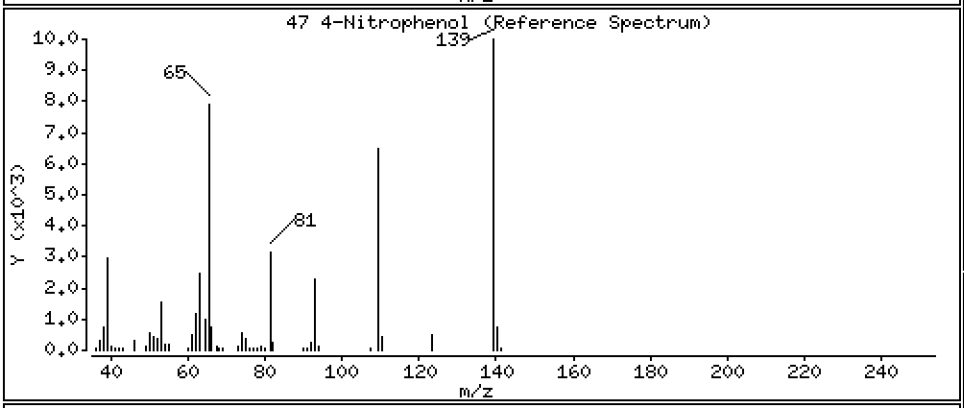
Concentration: 0.2375 ug/mL

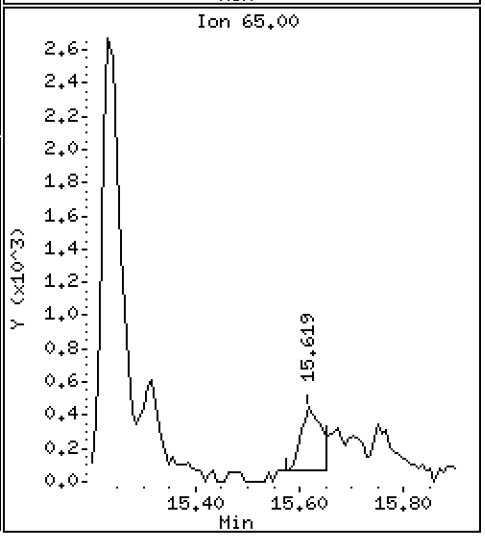


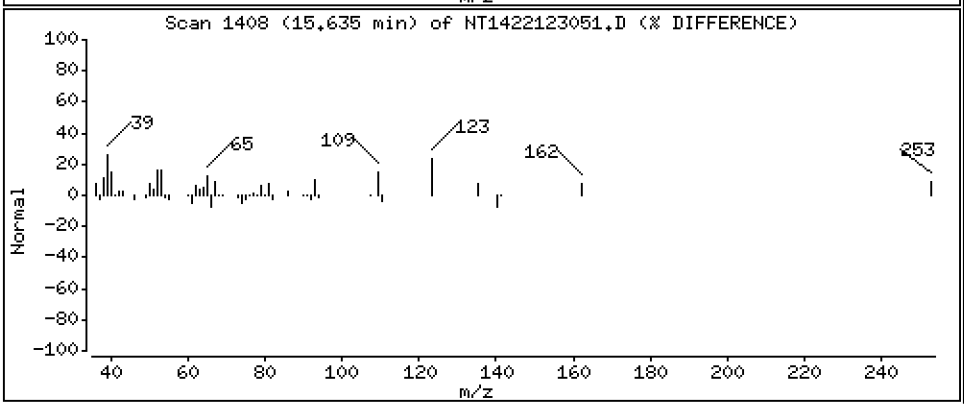












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

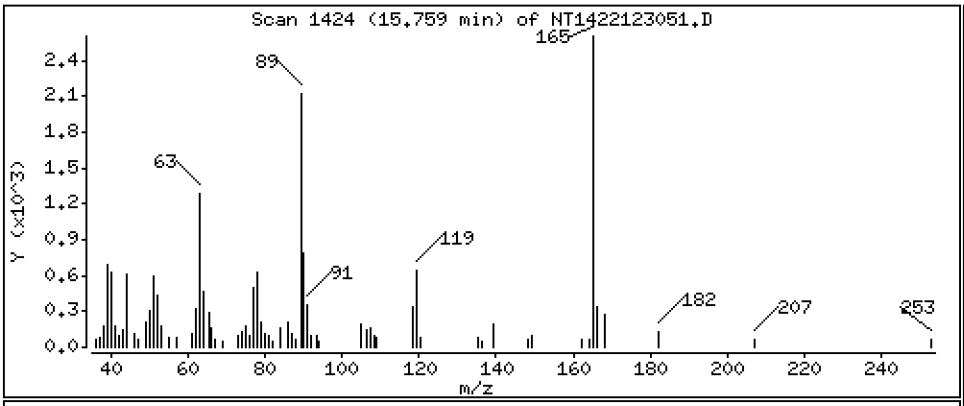
Operator: VTS

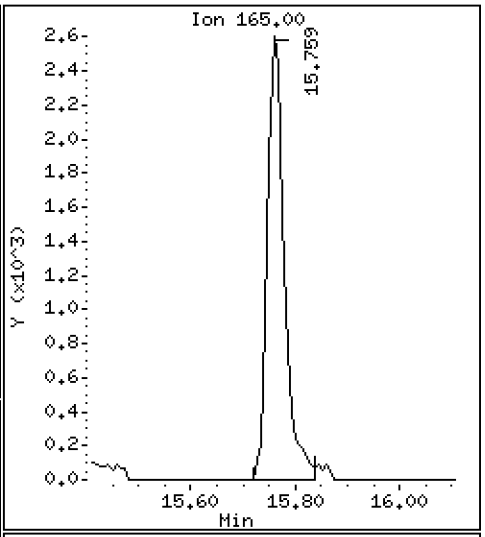
Column phase: ZB-5msi

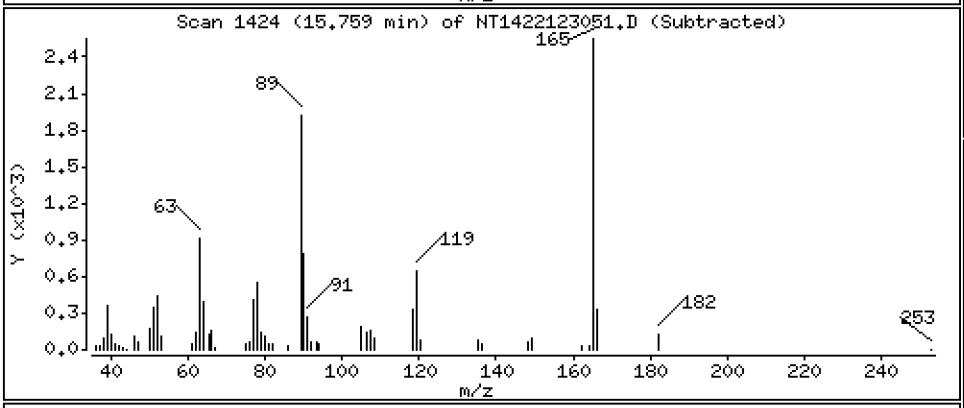
Column diameter: 0.25

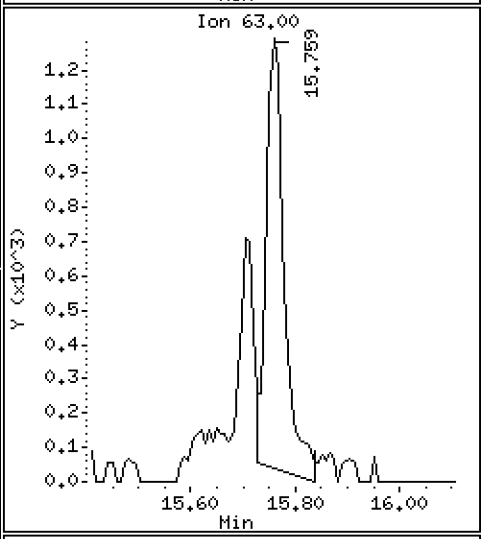
48 2,4-Dinitrotoluene

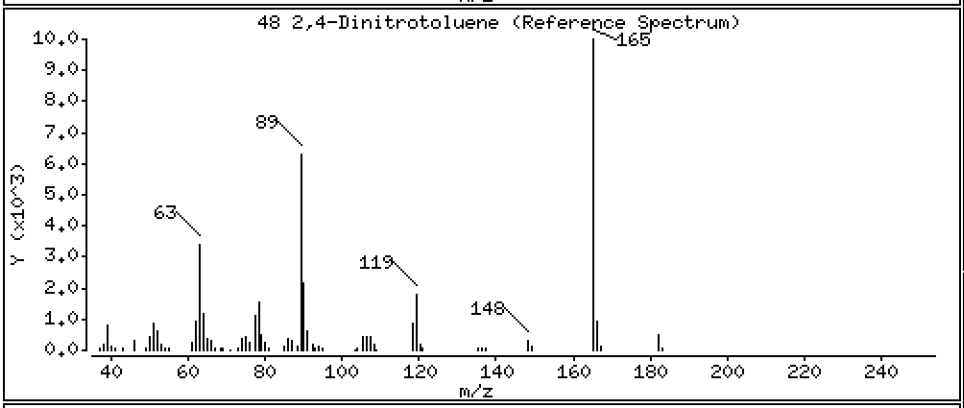
Concentration: 0.3020 ug/mL

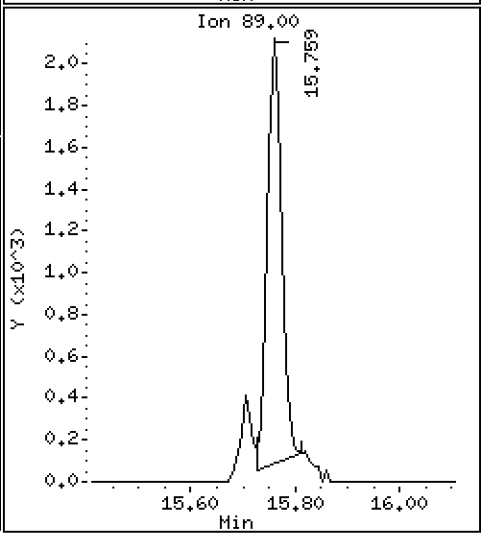


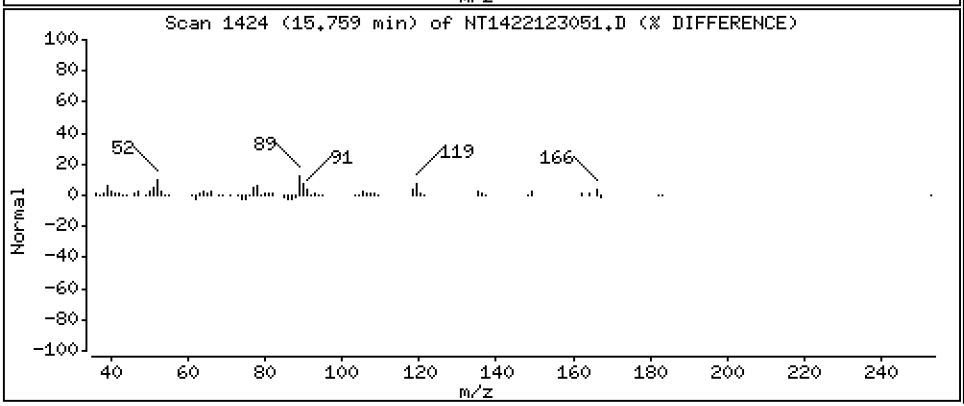












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

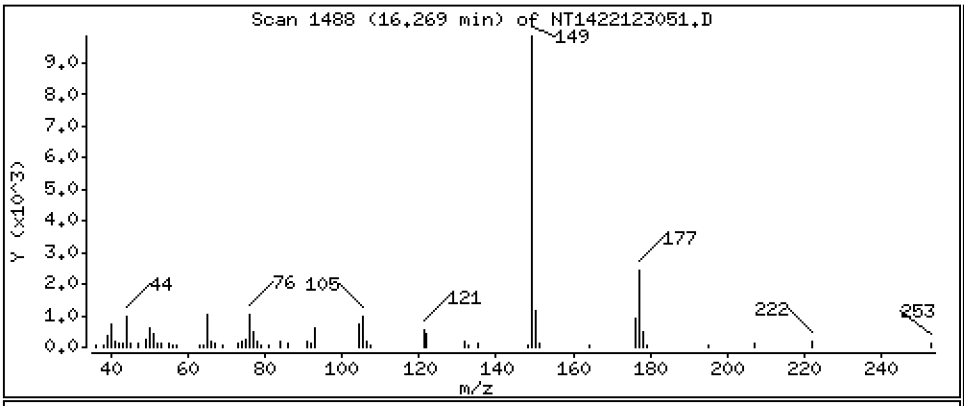
Operator: VTS

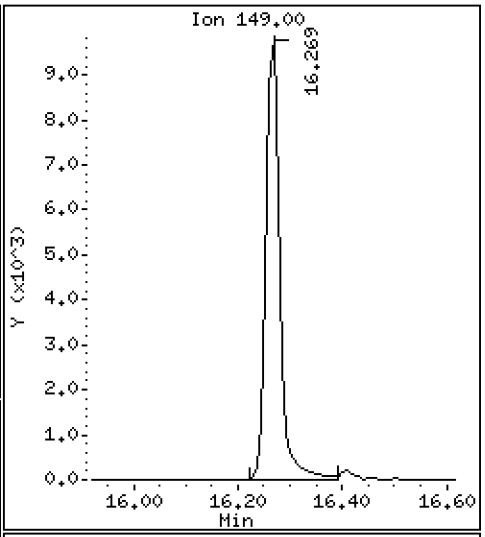
Column phase: ZB-5msi

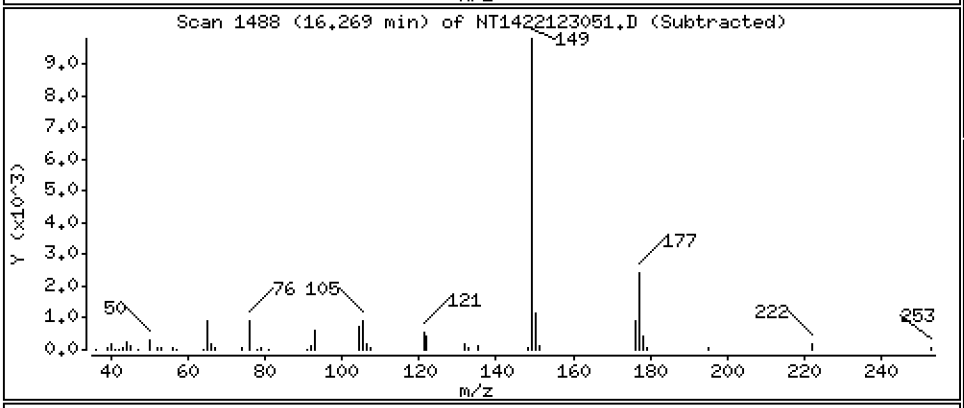
Column diameter: 0.25

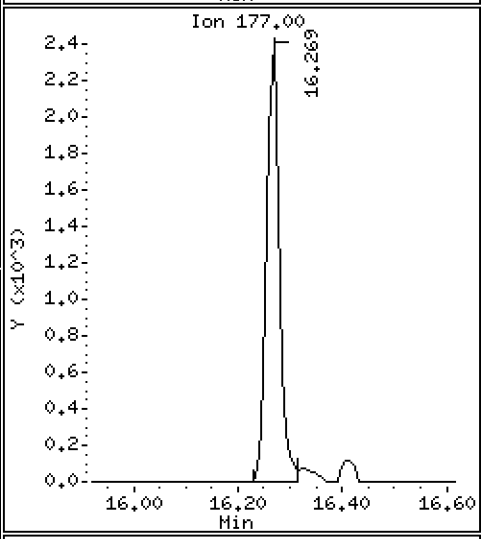
50 Diethylphthalate

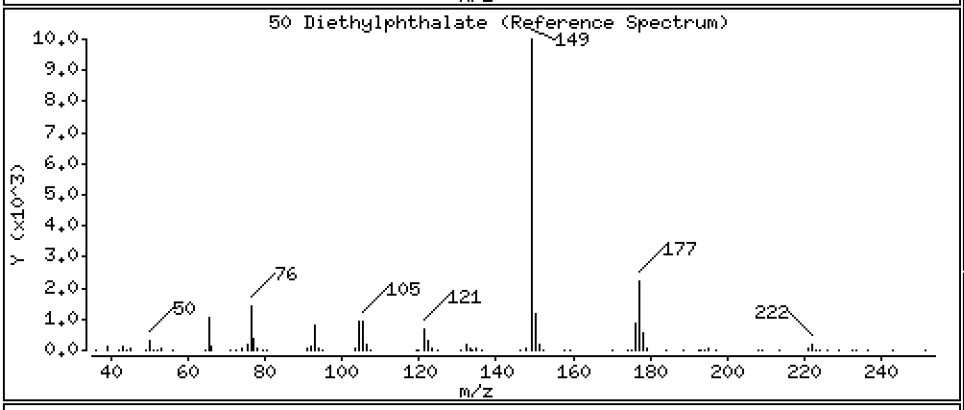
Concentration: 0.2277 ug/mL

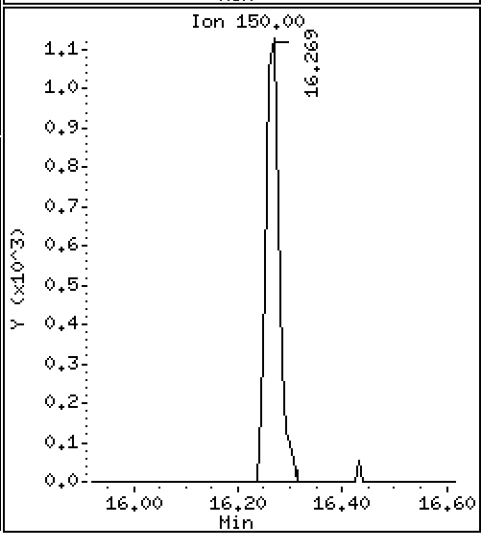


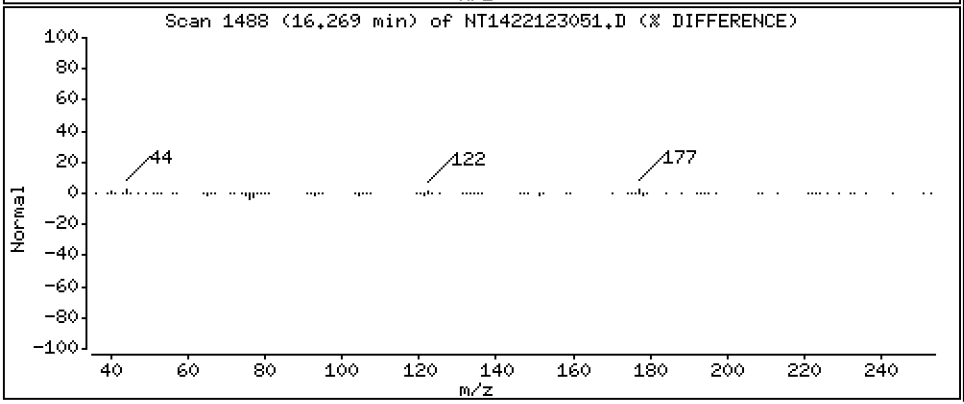












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

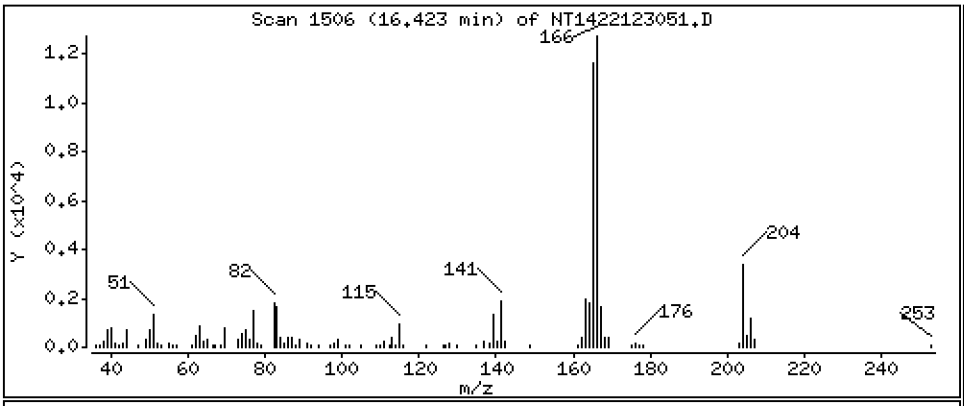
Operator: VTS

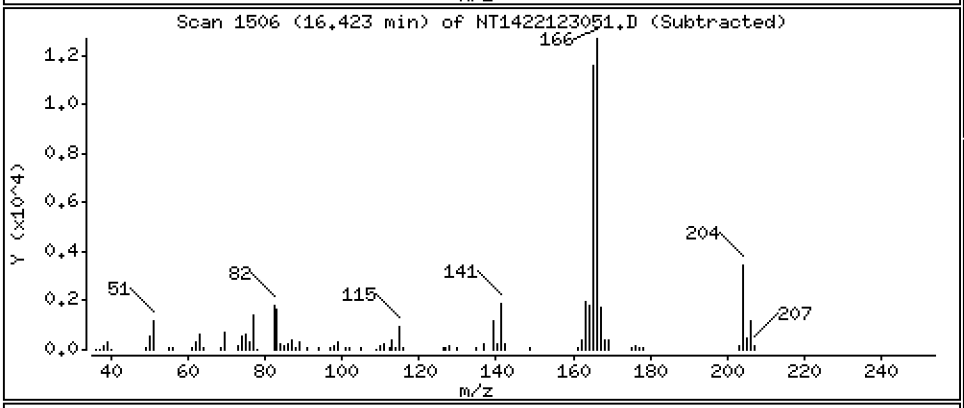
Column phase: ZB-5msi

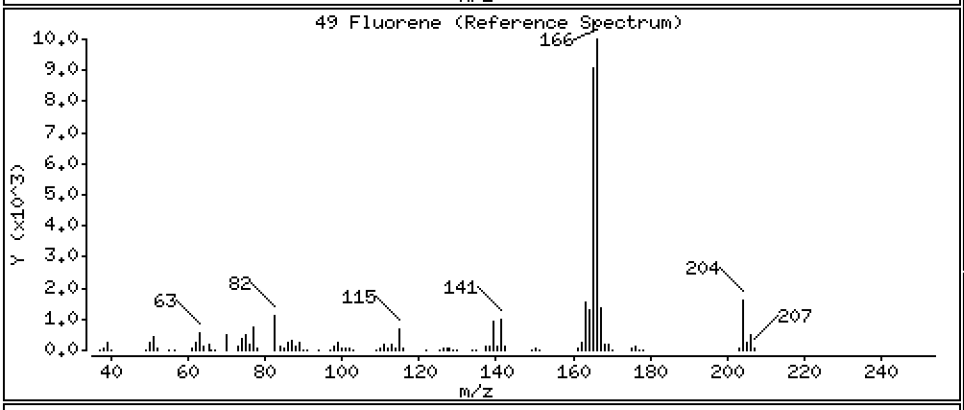
Column diameter: 0.25

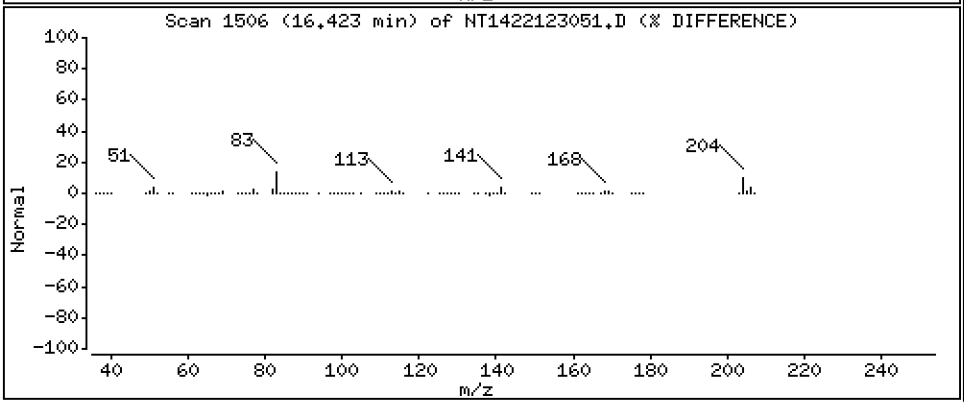
49 Fluorene

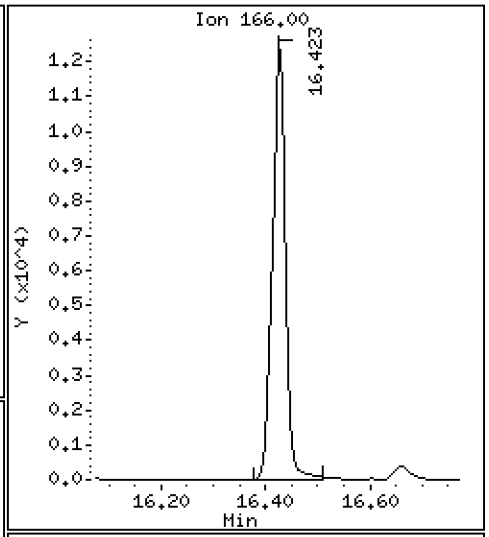
Concentration: 0.2274 ug/mL

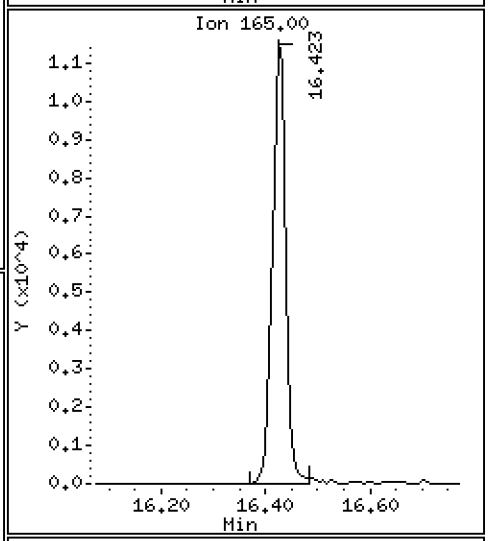


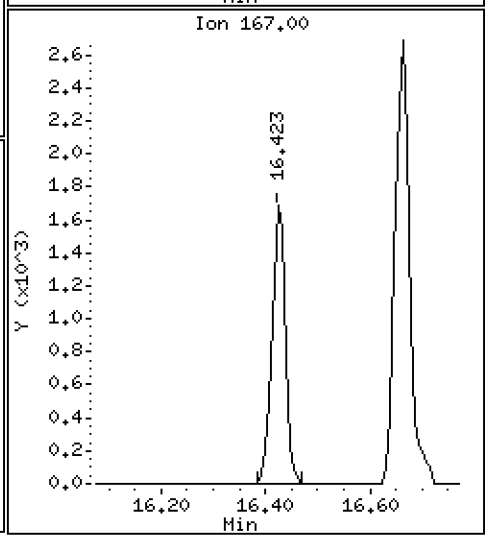












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

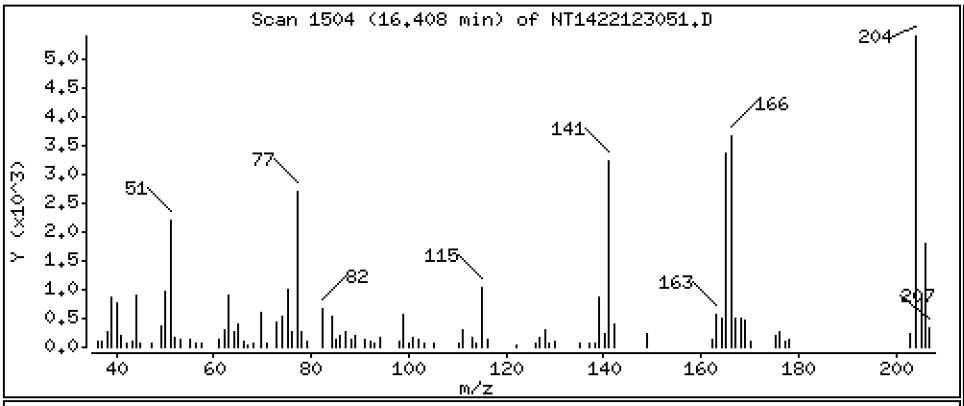
Operator: VTS

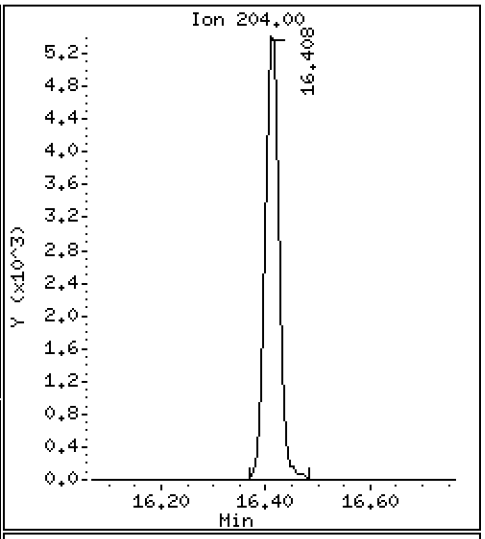
Column phase: ZB-5msi

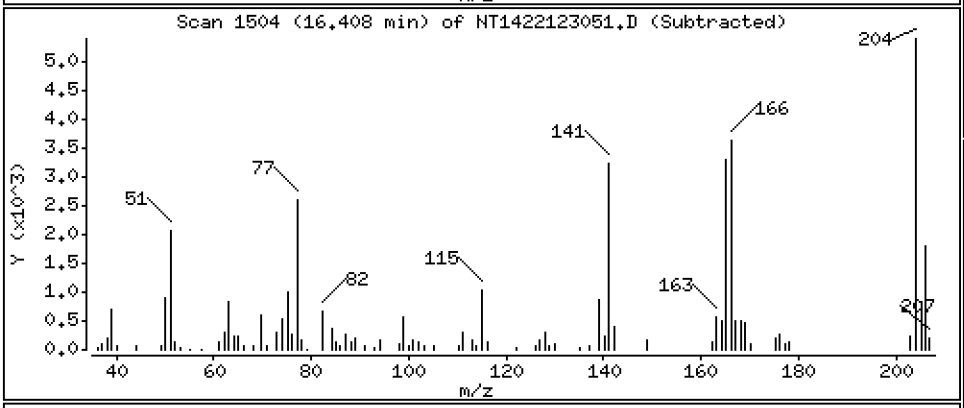
Column diameter: 0.25

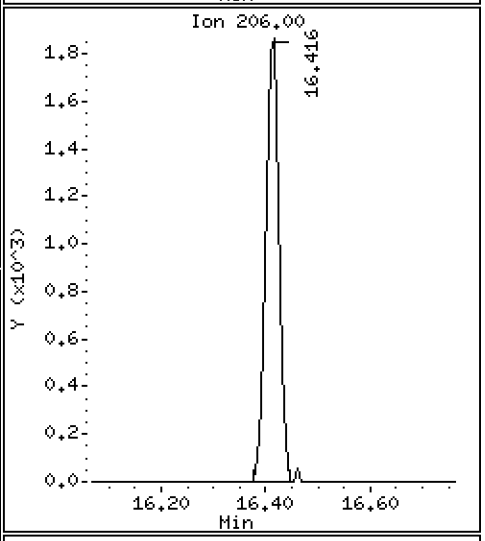
51 4-Chlorophenyl-phenylether

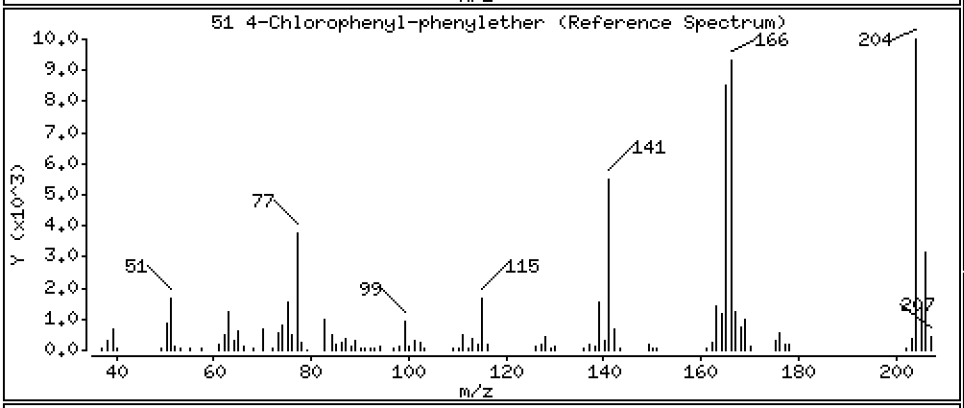
Concentration: 0.2138 ug/mL

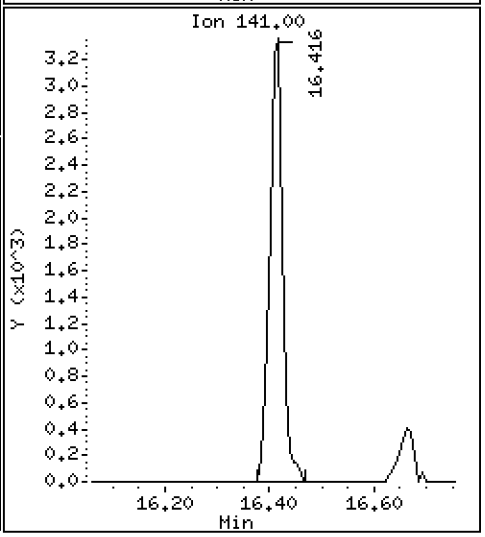


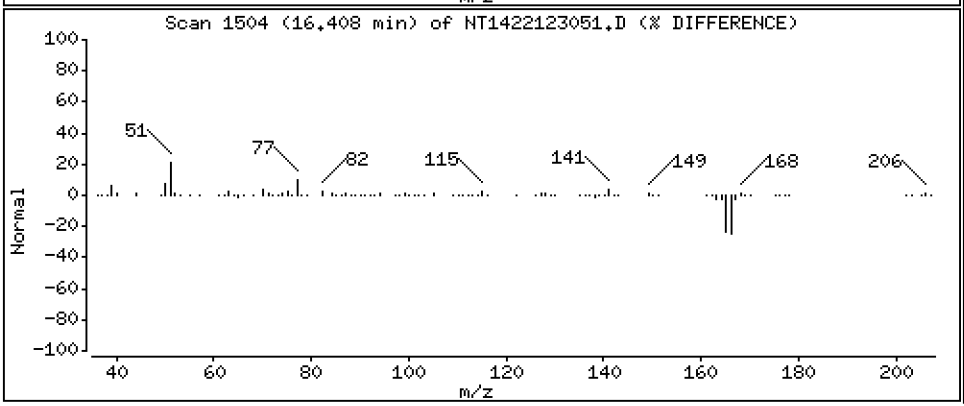












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

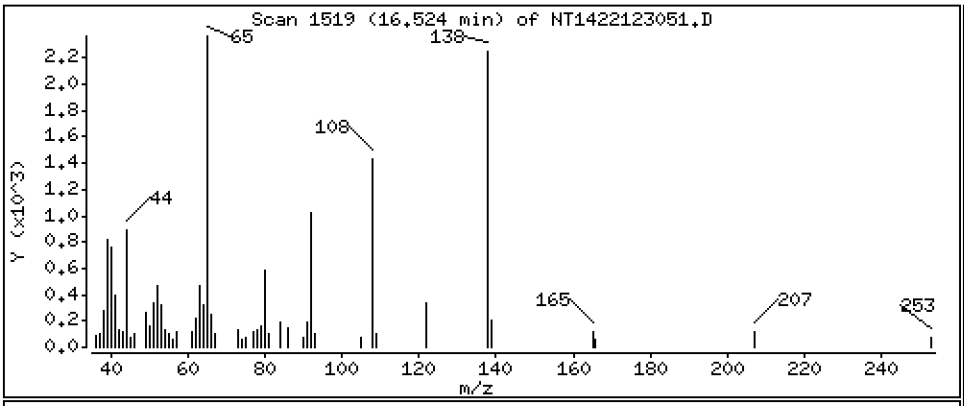
Operator: VTS

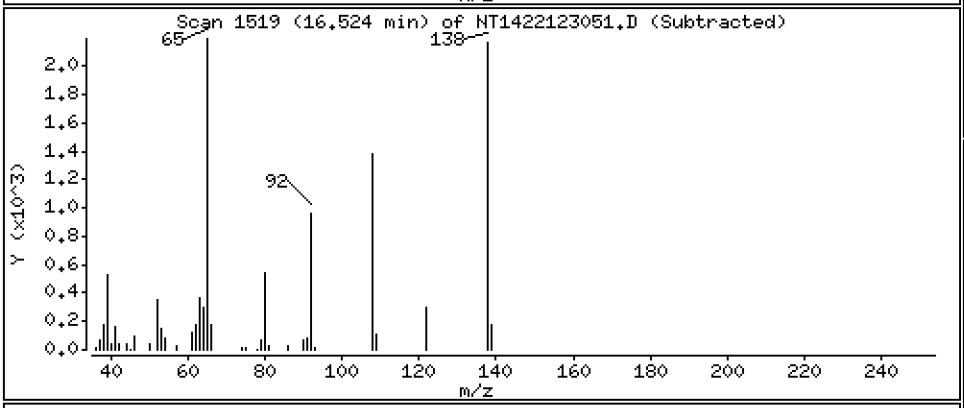
Column phase: ZB-5msi

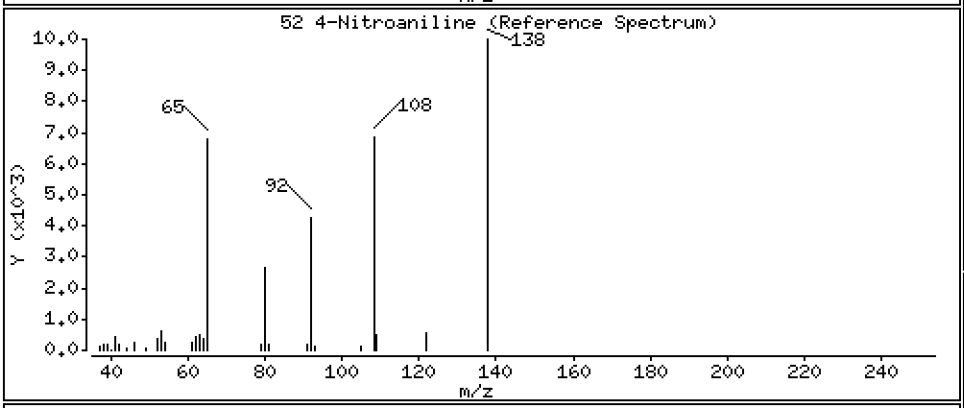
Column diameter: 0.25

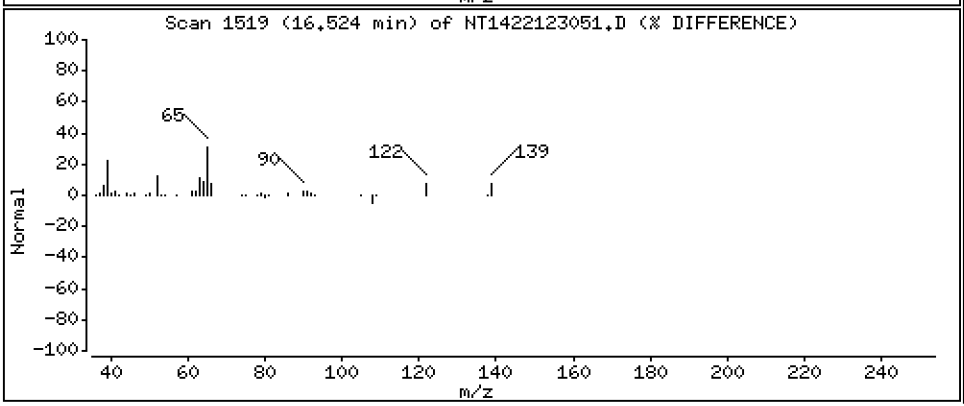
52 4-Nitroaniline

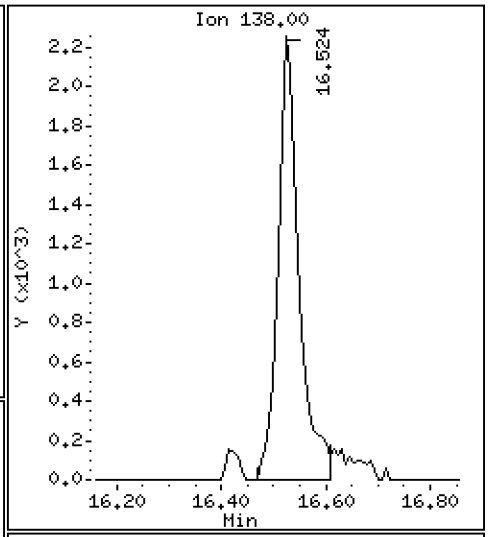
Concentration: 0.3128 ug/mL

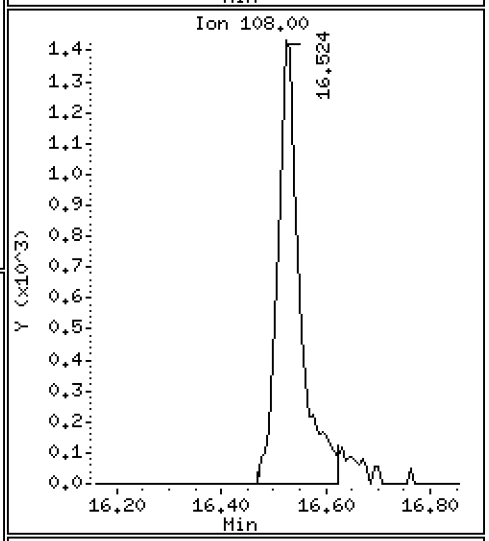


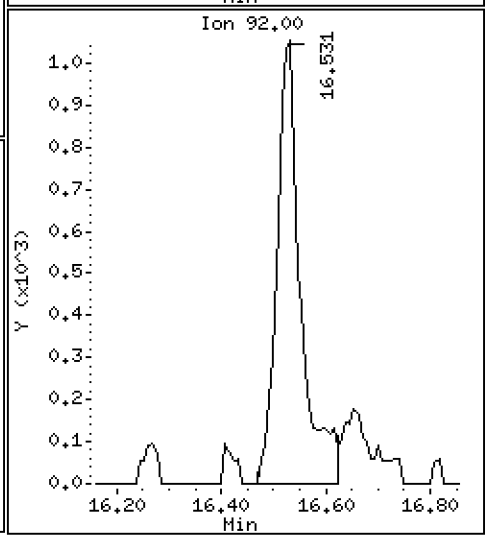












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

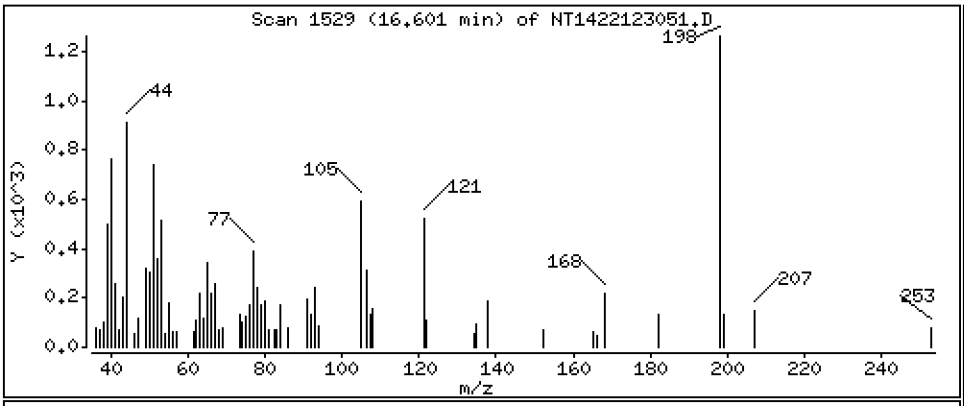
Operator: VTS

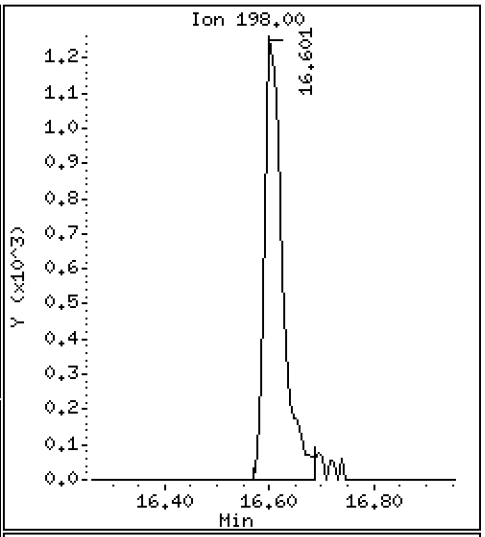
Column phase: ZB-5msi

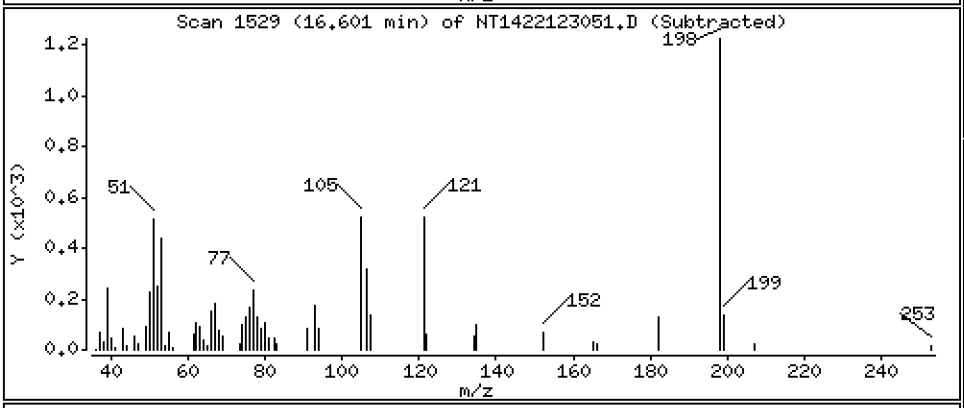
Column diameter: 0.25

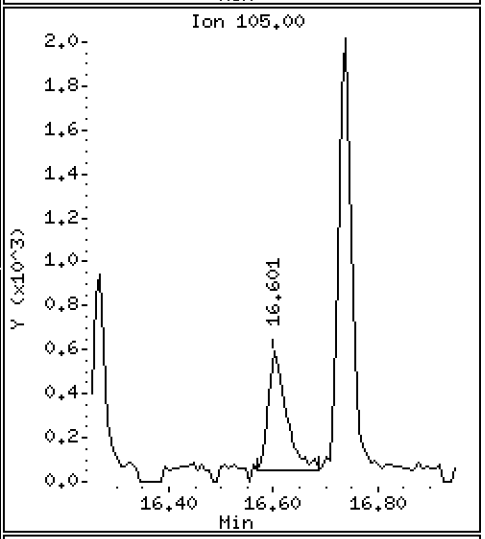
53 4,6-Dinitro-2-methylphenol

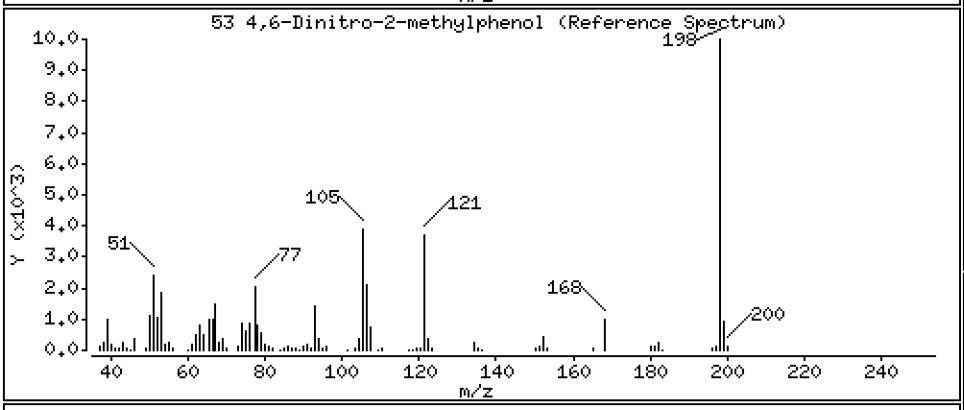
Concentration: 0.2020 ug/mL

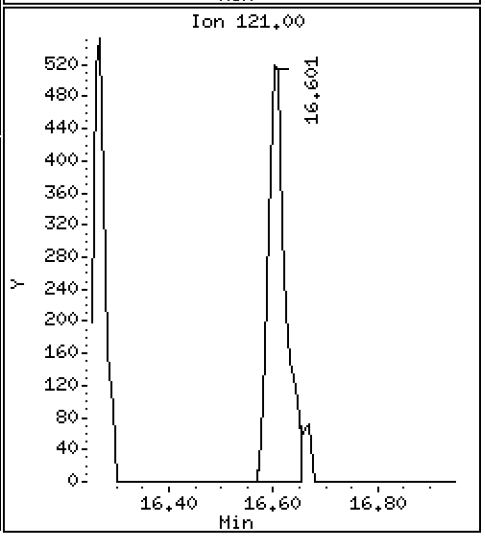


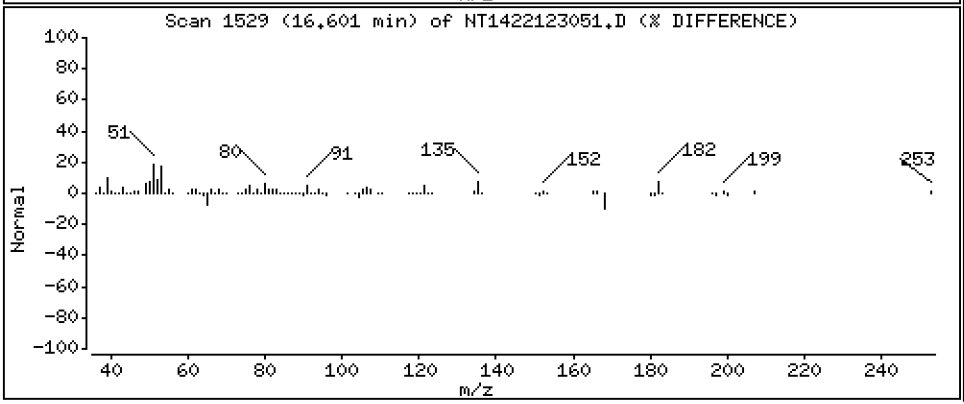












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

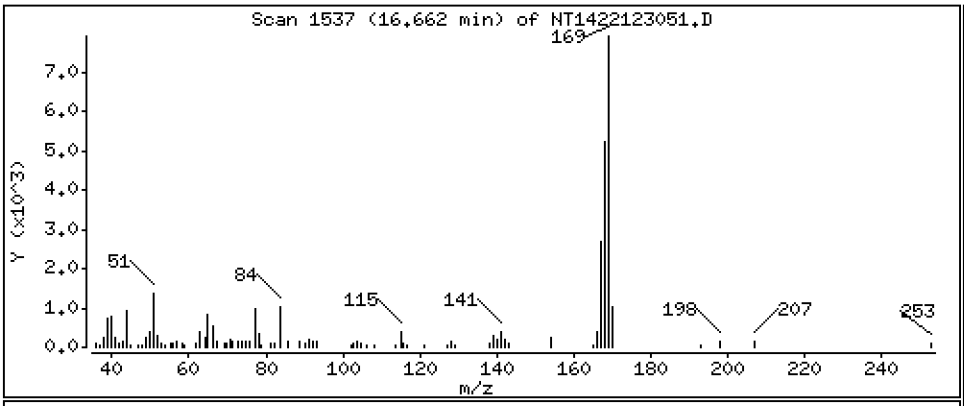
Operator: VTS

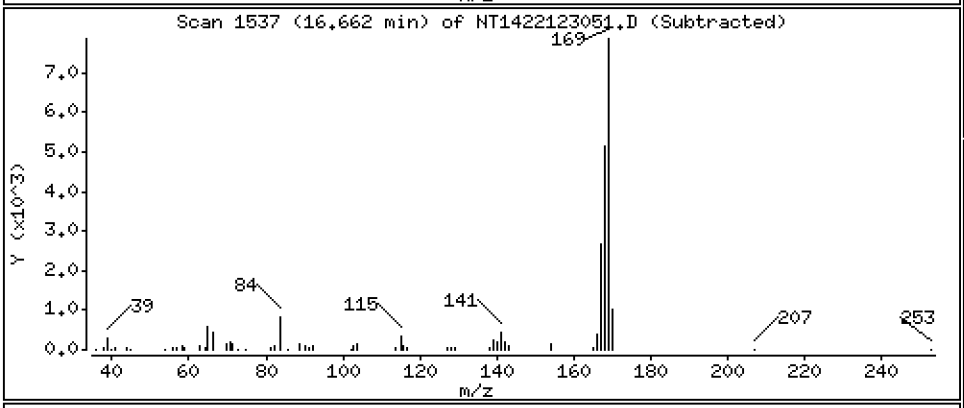
Column phase: ZB-5msi

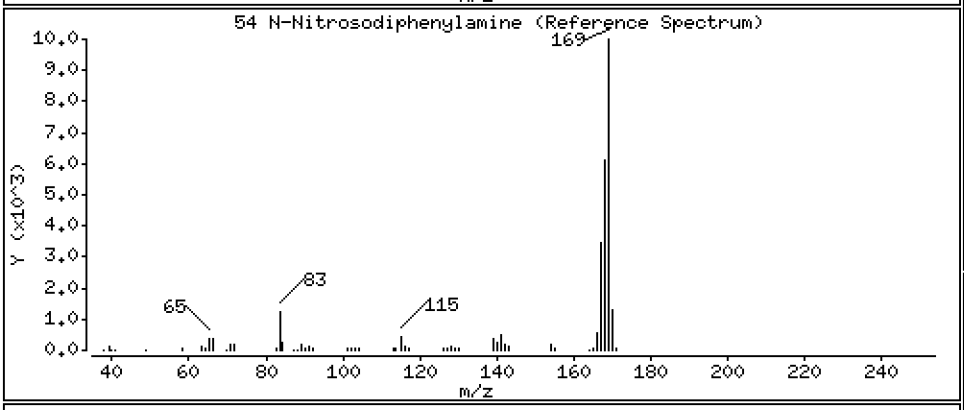
Column diameter: 0.25

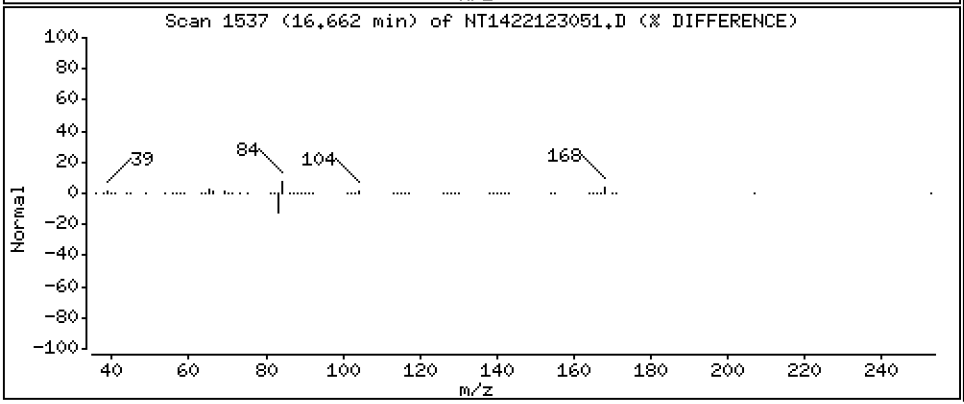
54 N-Nitrosodiphenylamine

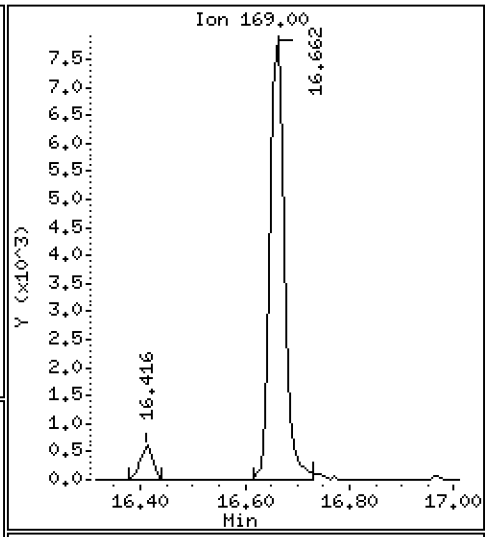
Concentration: 0.2422 ug/mL

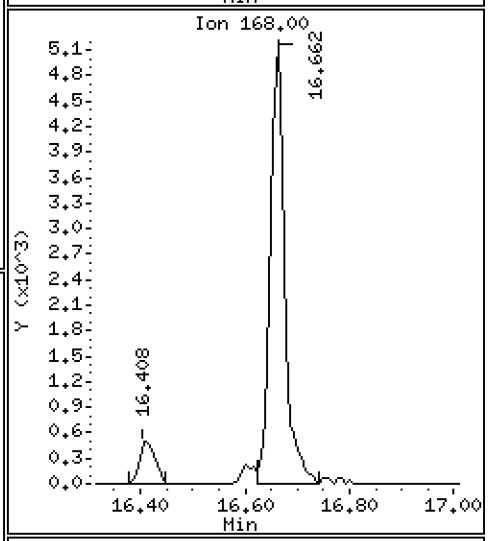


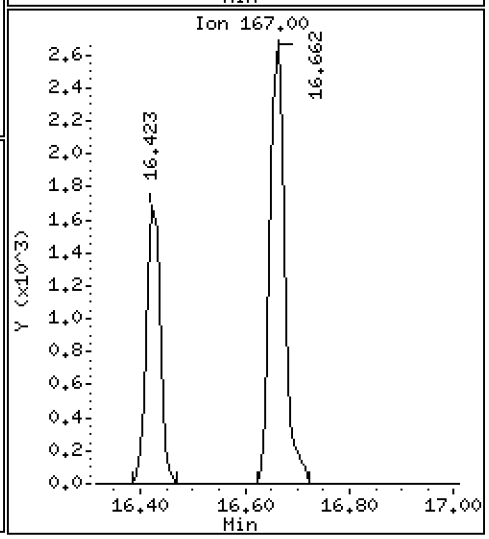












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

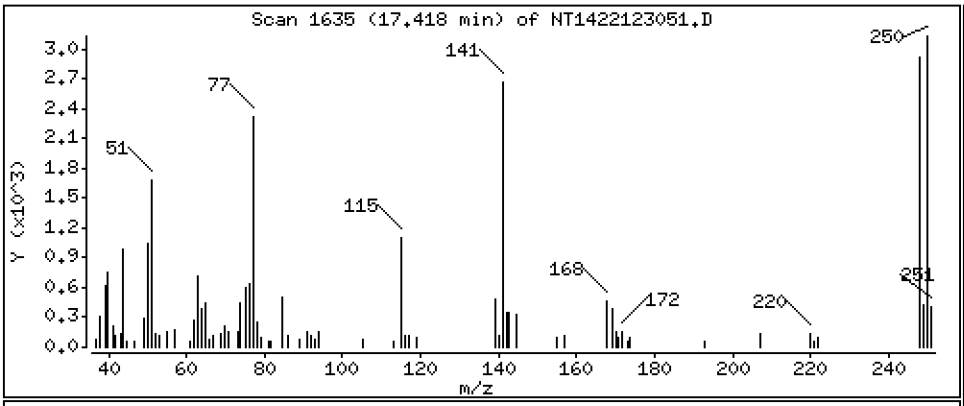
Operator: VTS

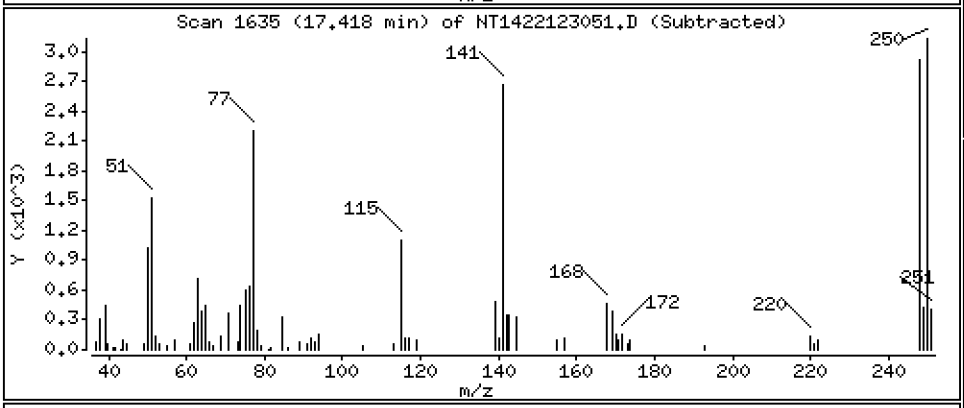
Column phase: ZB-5msi

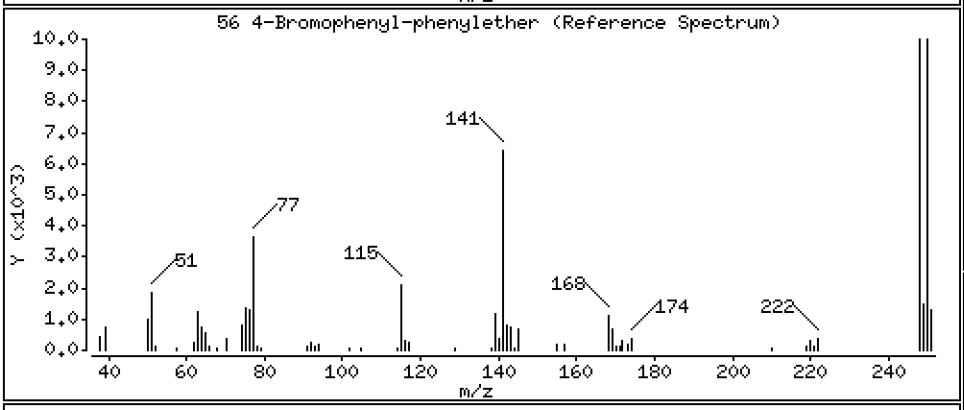
Column diameter: 0.25

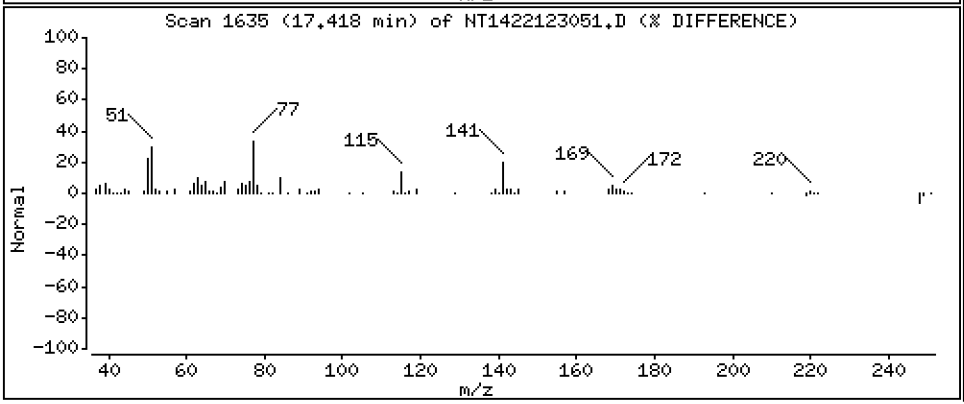
56 4-Bromophenyl-phenylether

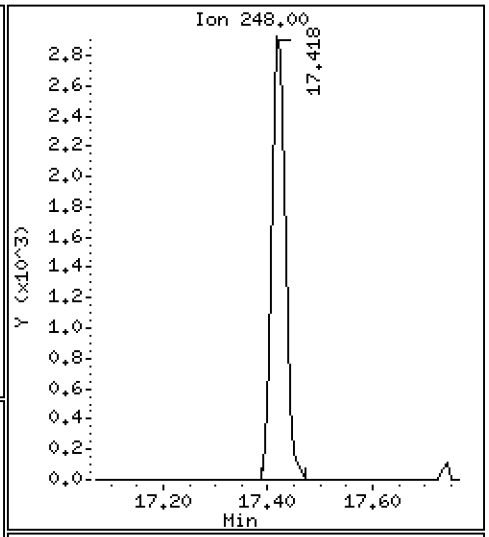
Concentration: 0.2274 ug/mL

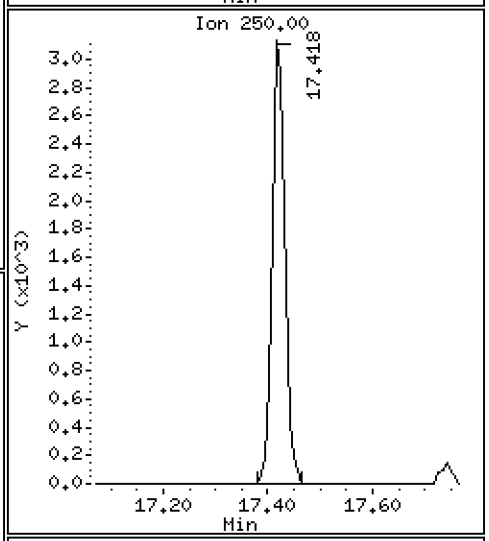


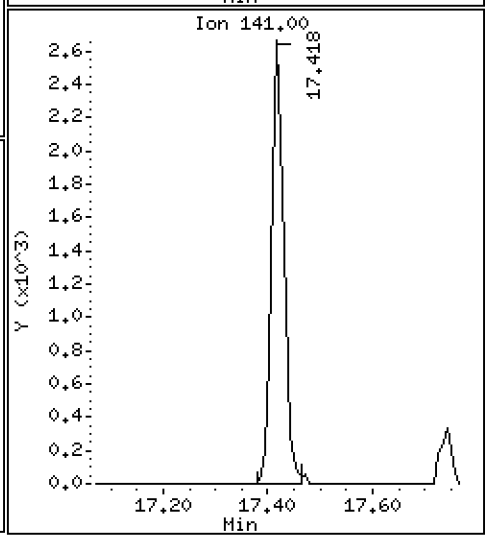












Date : 31-DEC-2022 14:29

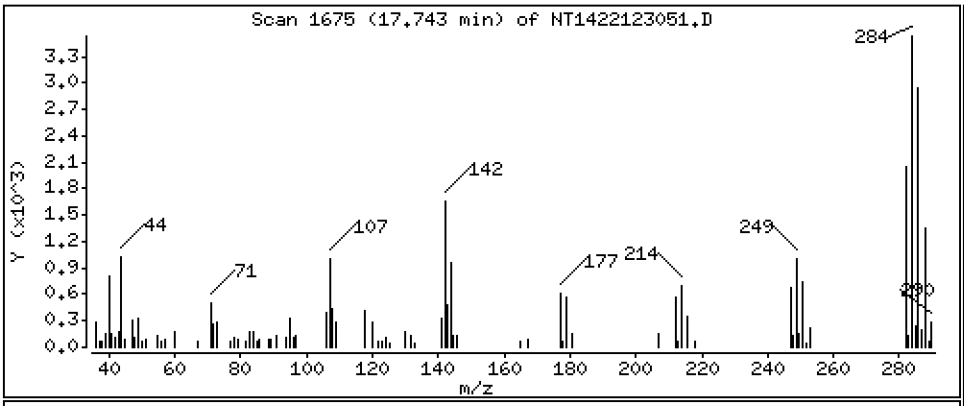
Client ID: Instrument: nt14.i

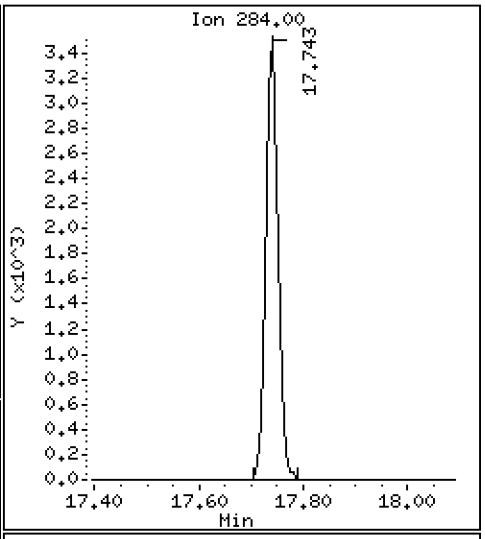
Sample Info: SKL0355-LCV1

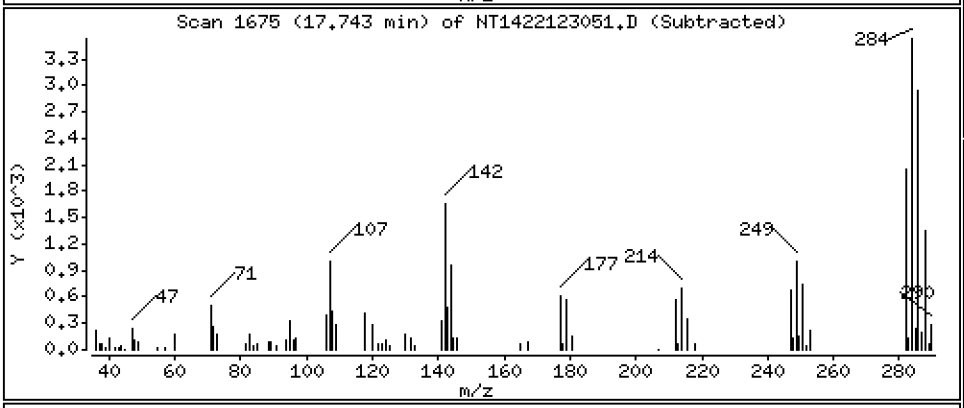
Operator: VTS

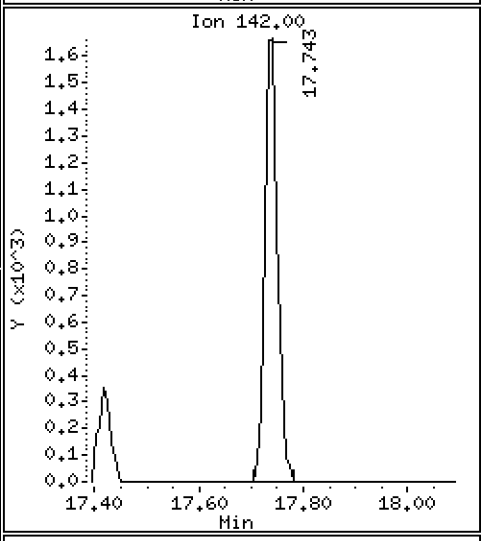
Column phase: ZB-5msi Column diameter: 0.25

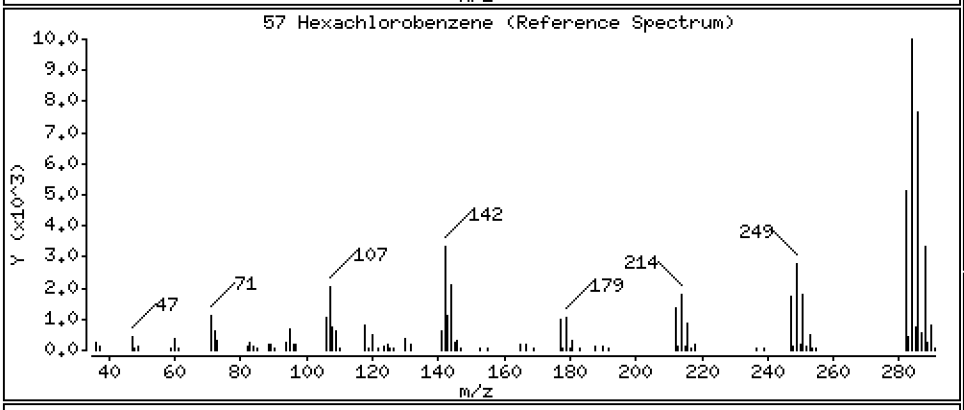
57 Hexachlorobenzene Concentration: 0.2291 ug/mL

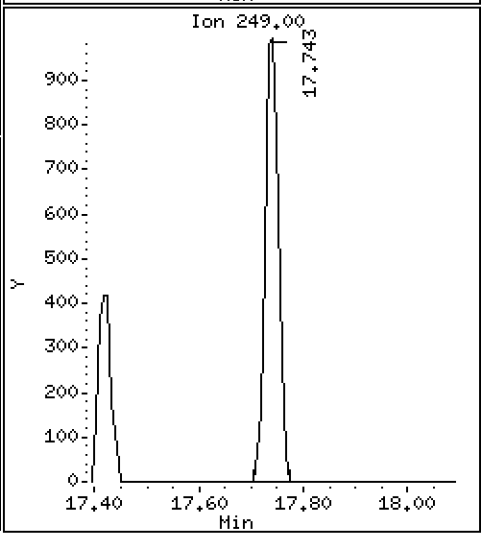


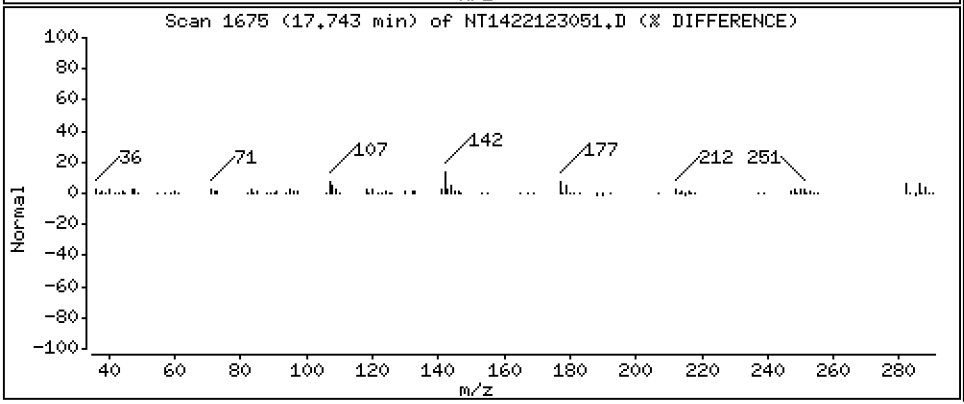












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

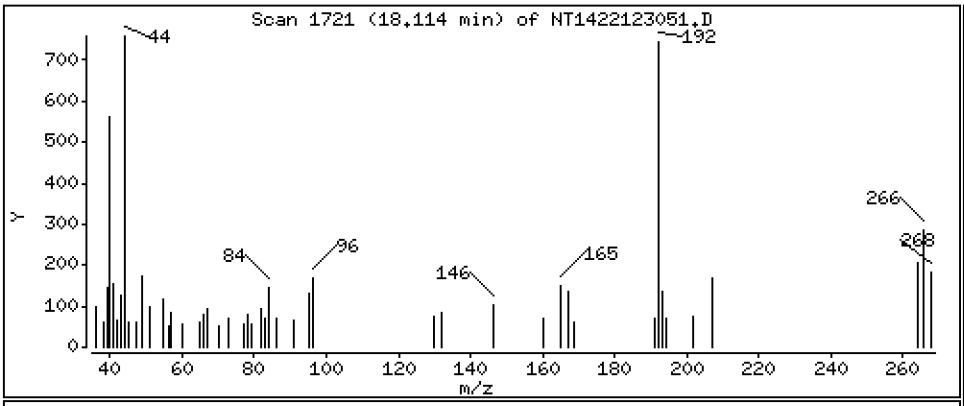
Operator: VTS

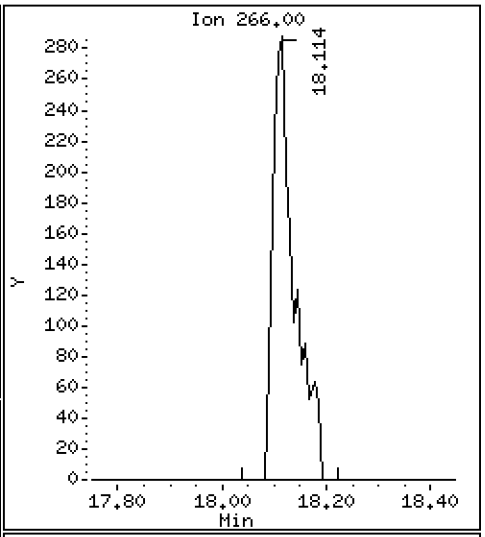
Column phase: ZB-5msi

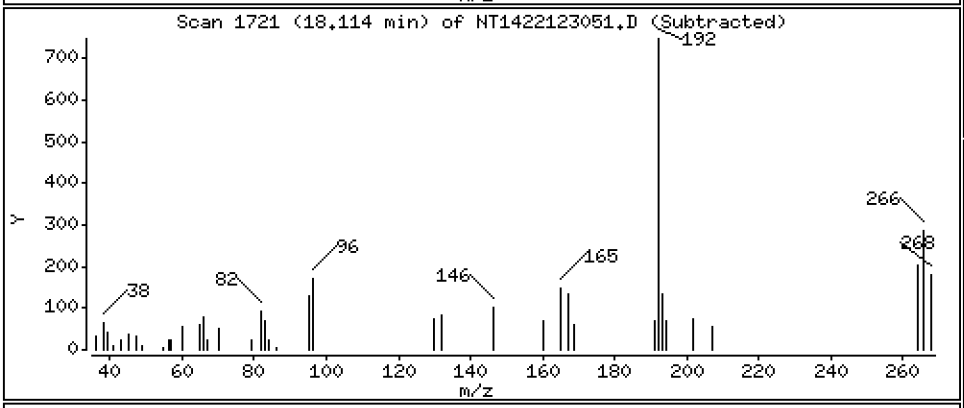
Column diameter: 0.25

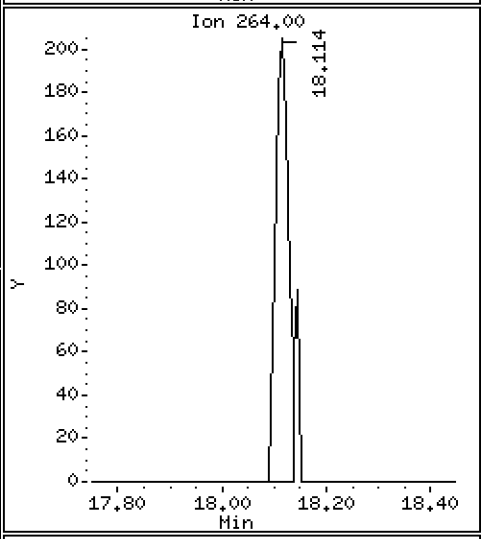
58 Pentachlorophenol

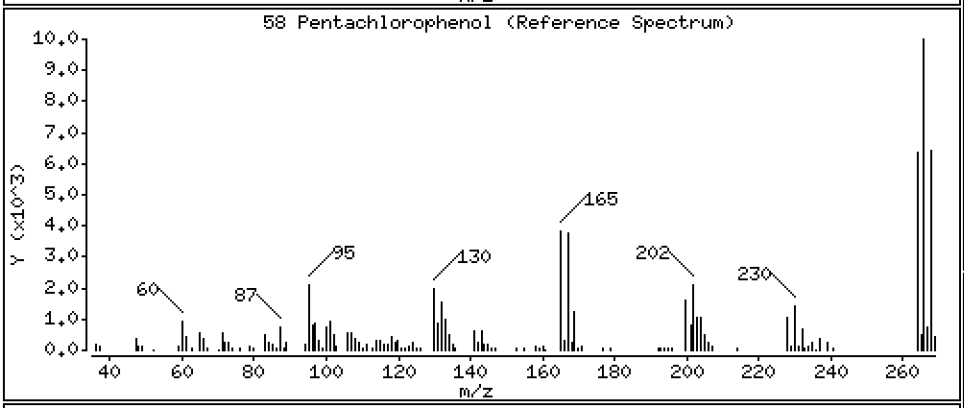
Concentration: 0.07669 ug/mL

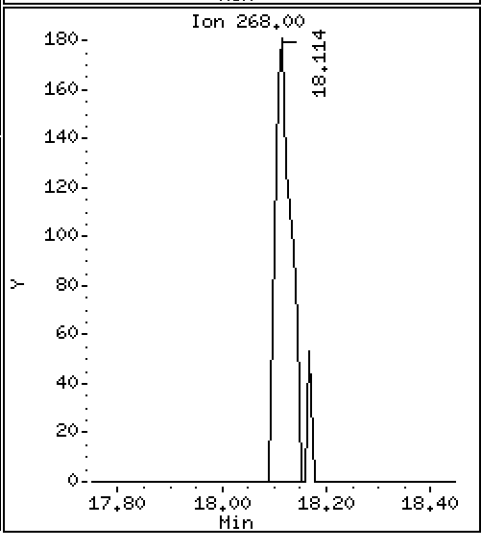


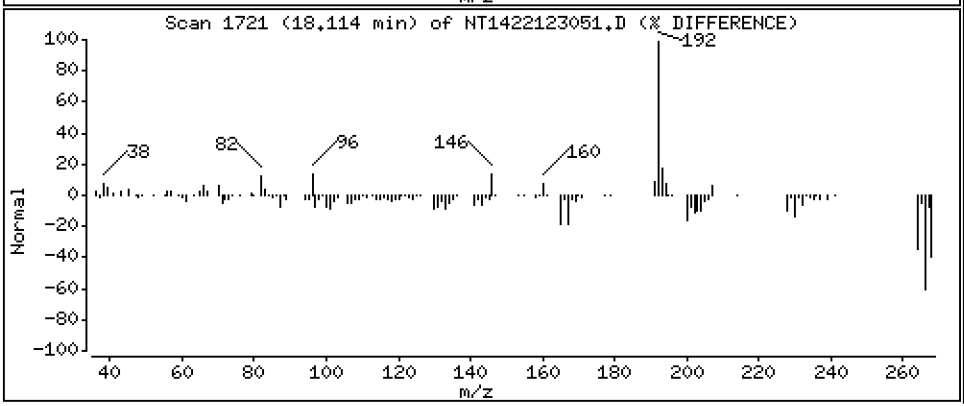












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

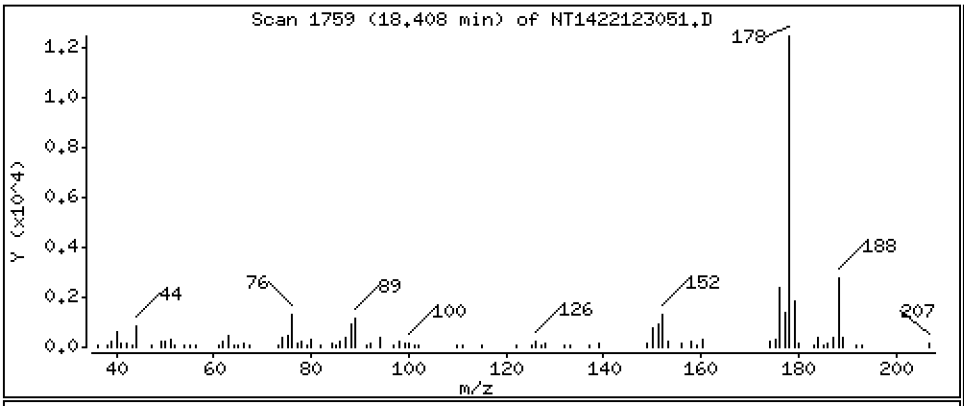
Operator: VTS

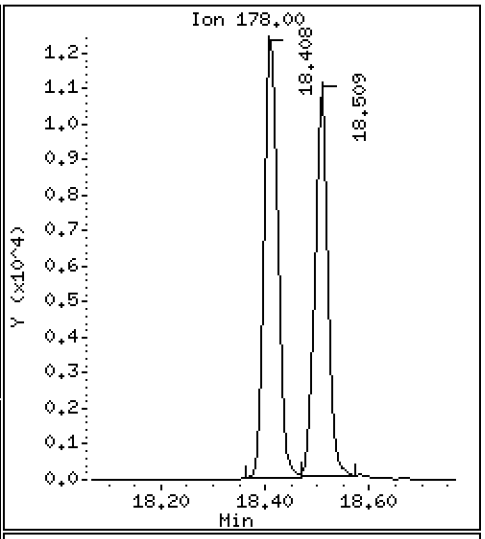
Column phase: ZB-5msi

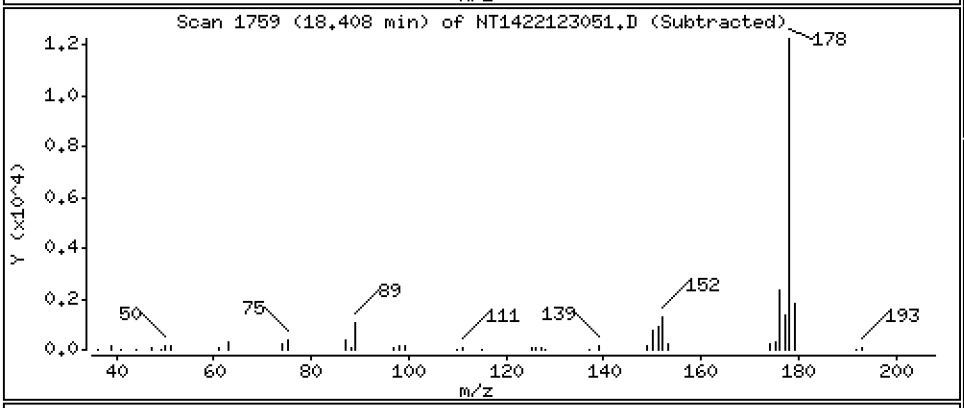
Column diameter: 0.25

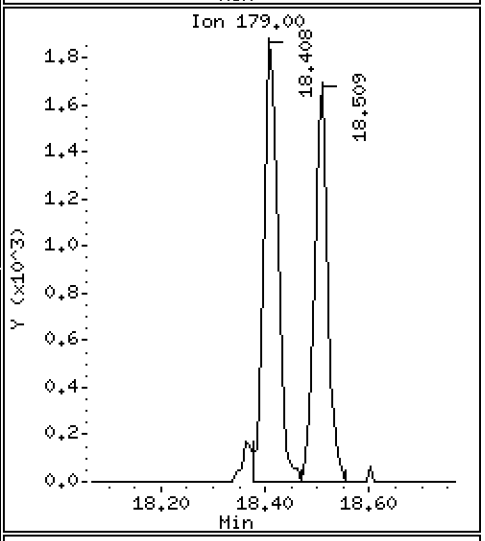
60 Phenanthrene

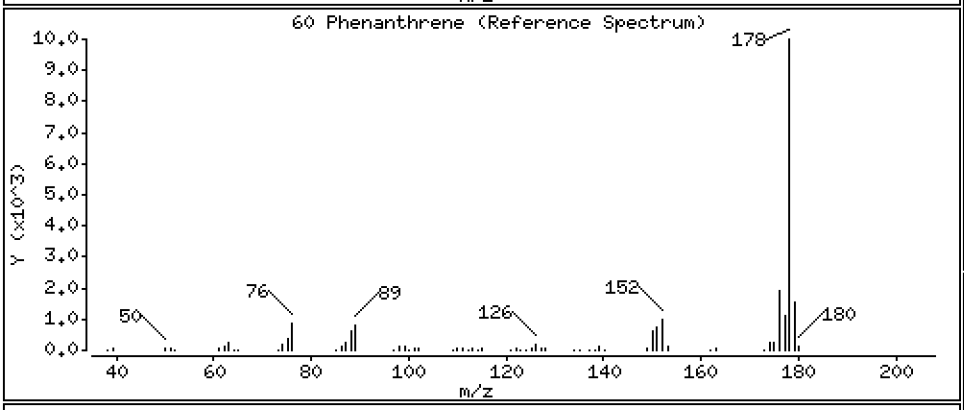
Concentration: 0.2415 ug/mL

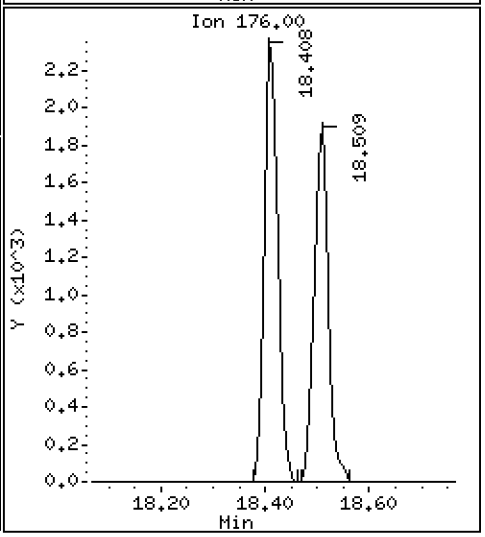


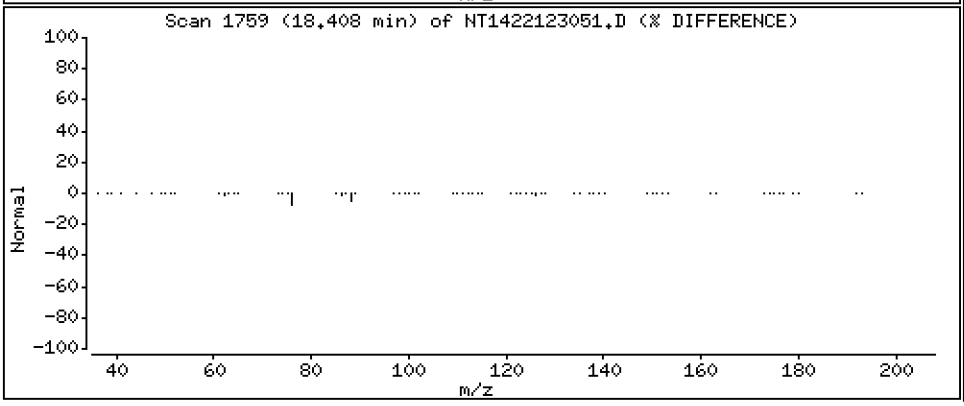












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

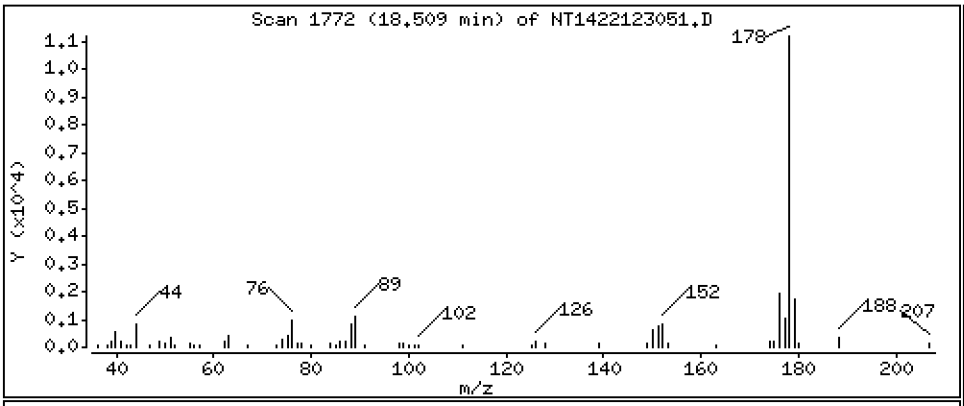
Operator: VTS

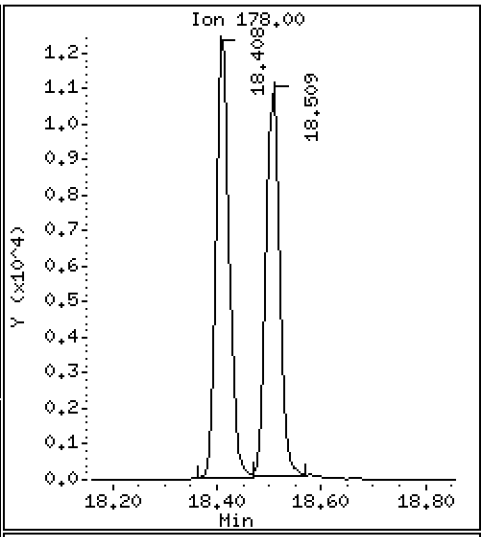
Column phase: ZB-5msi

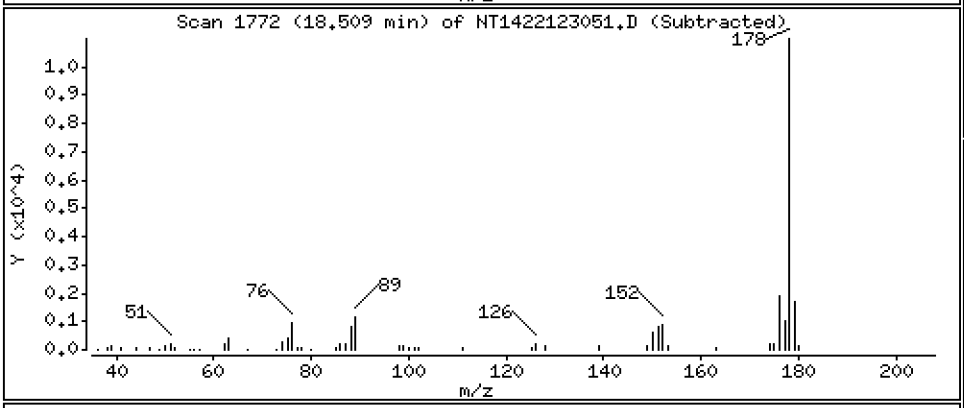
Column diameter: 0.25

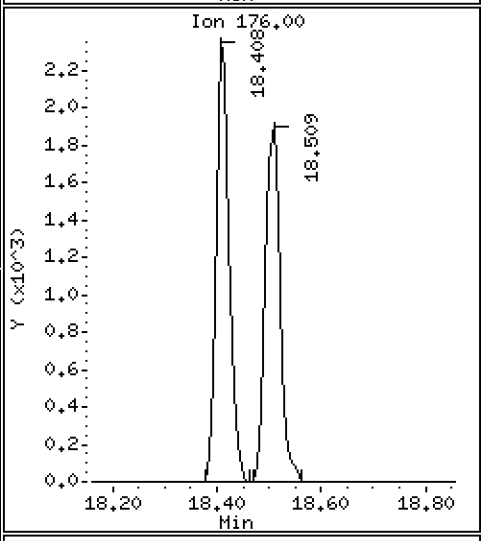
61 Anthracene

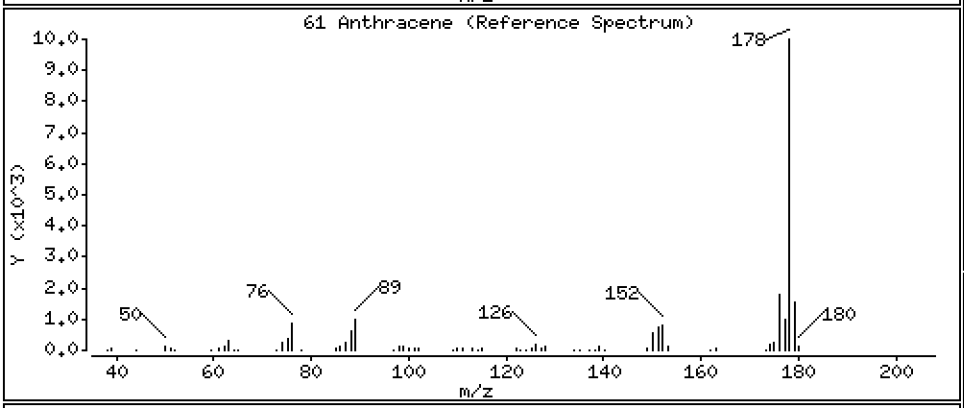
Concentration: 0.2183 ug/mL

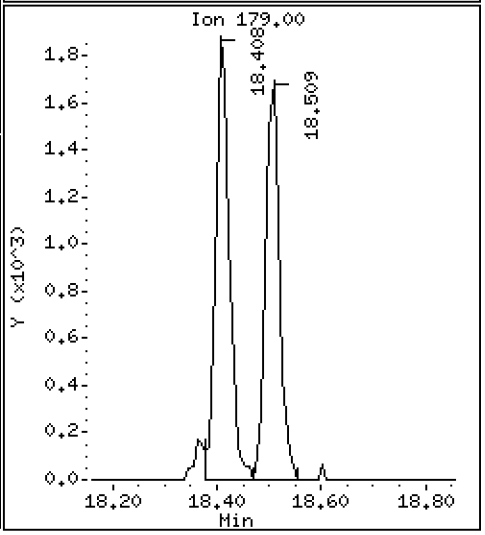


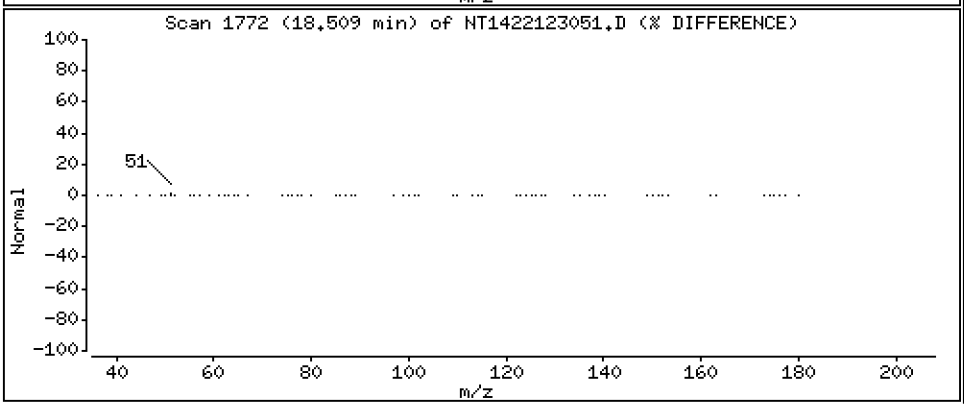












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

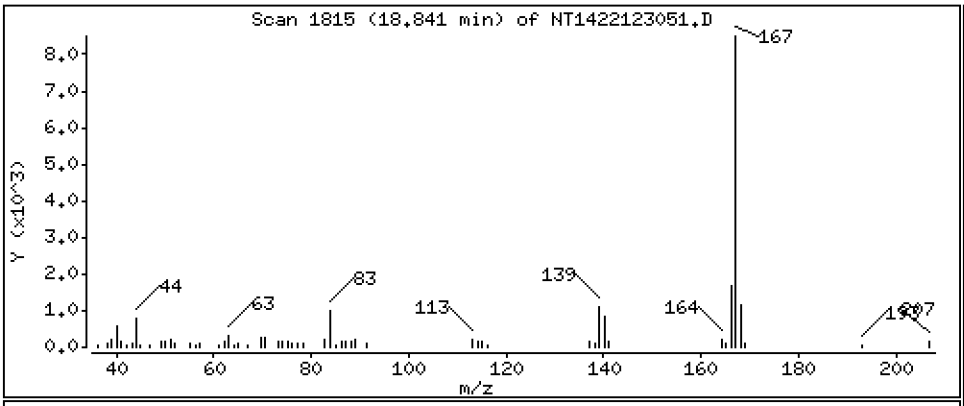
Operator: VTS

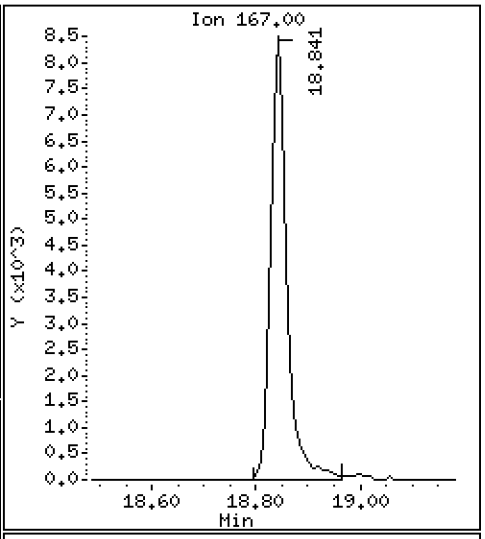
Column phase: ZB-5msi

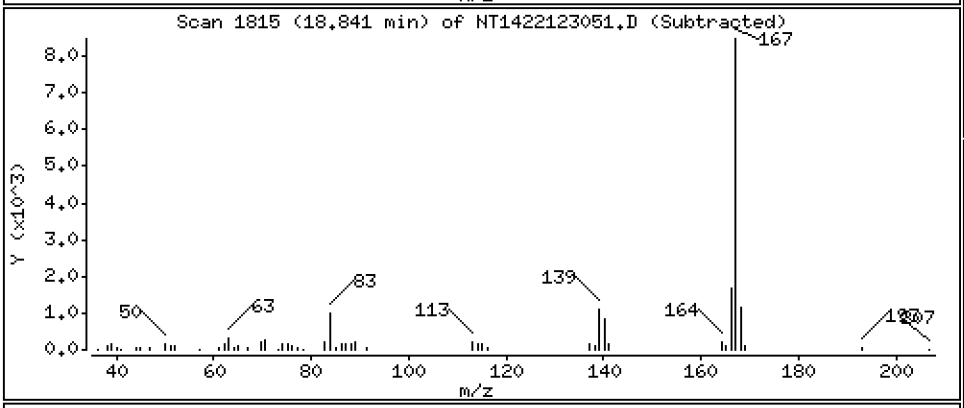
Column diameter: 0.25

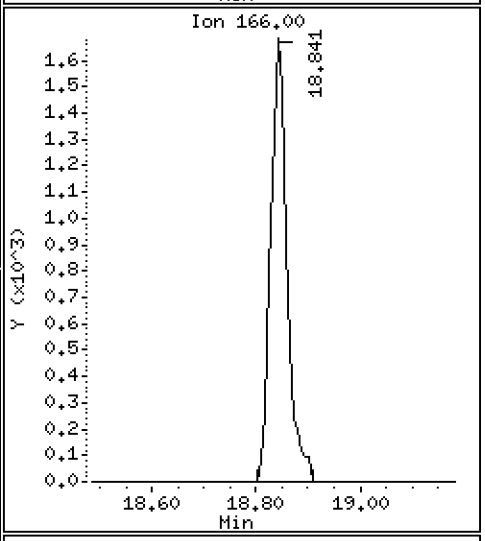
62 Carbazole

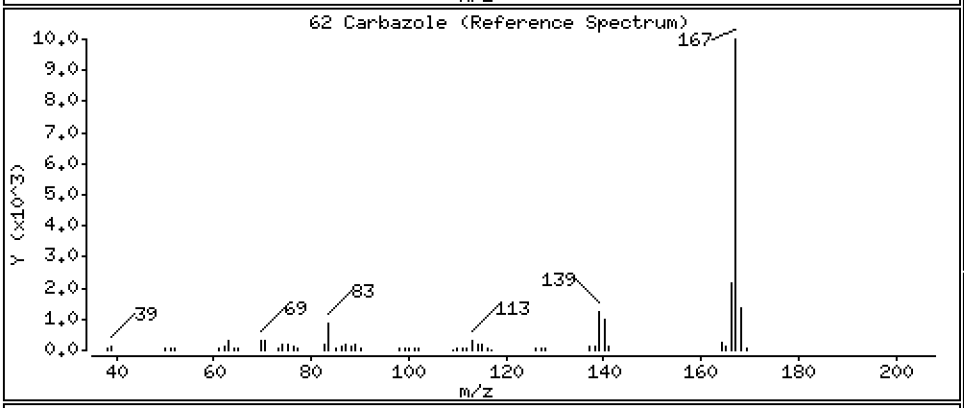
Concentration: 0.2174 ug/mL

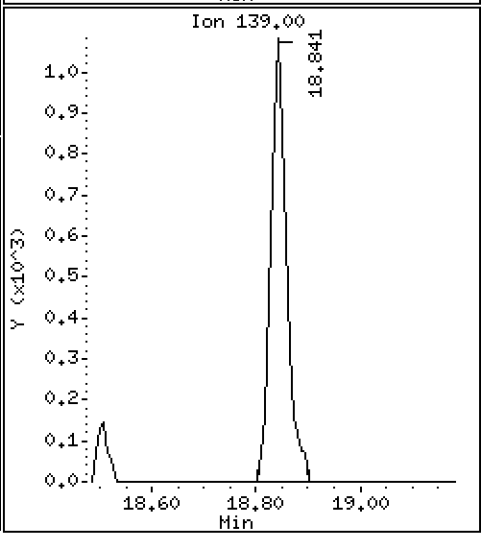


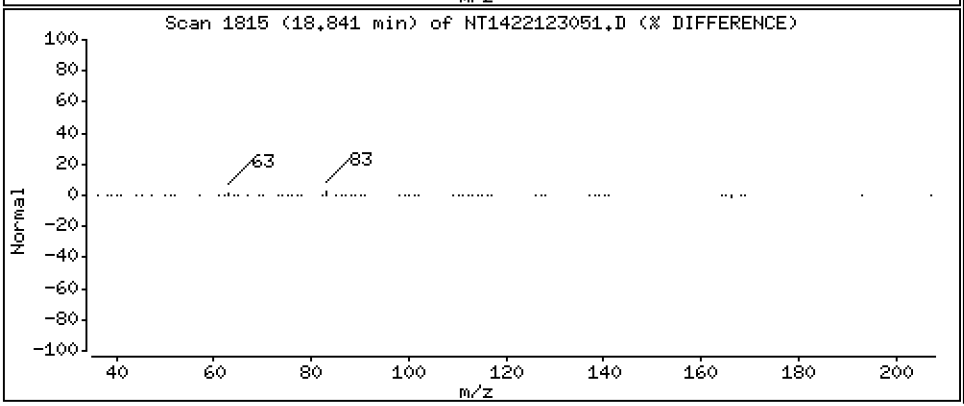












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

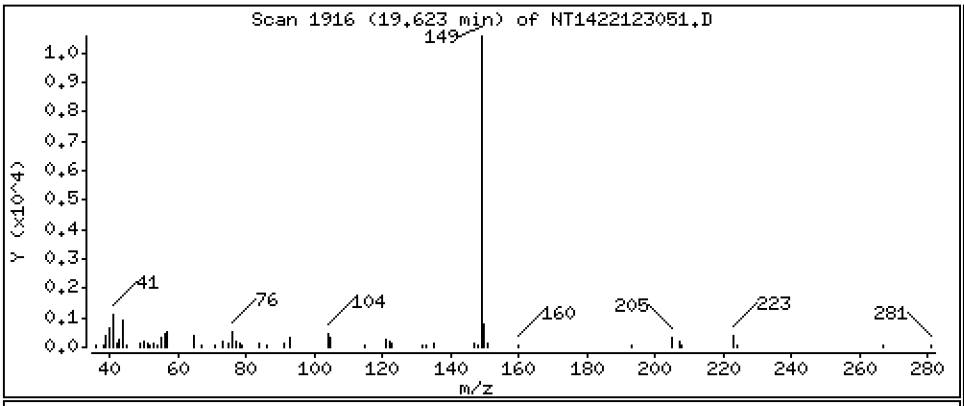
Operator: VTS

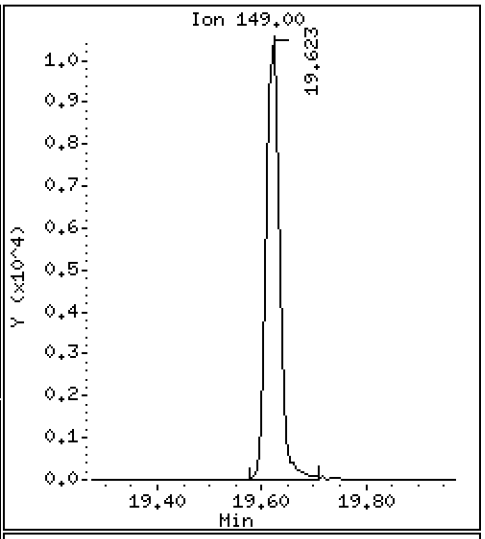
Column phase: ZB-5msi

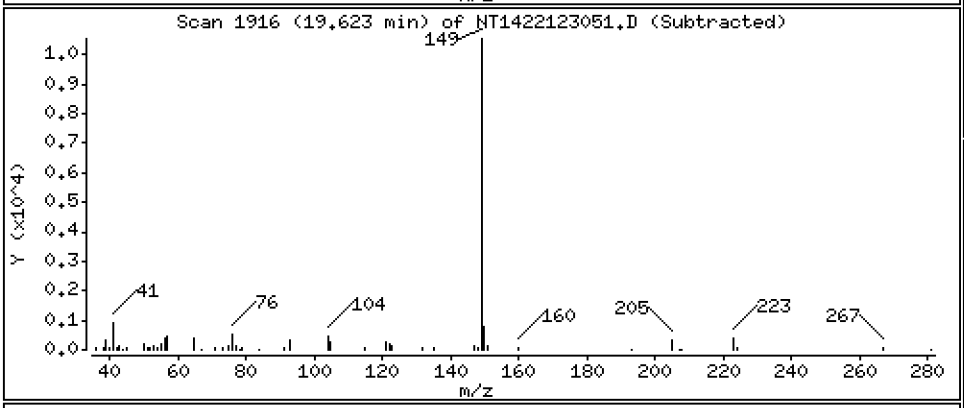
Column diameter: 0.25

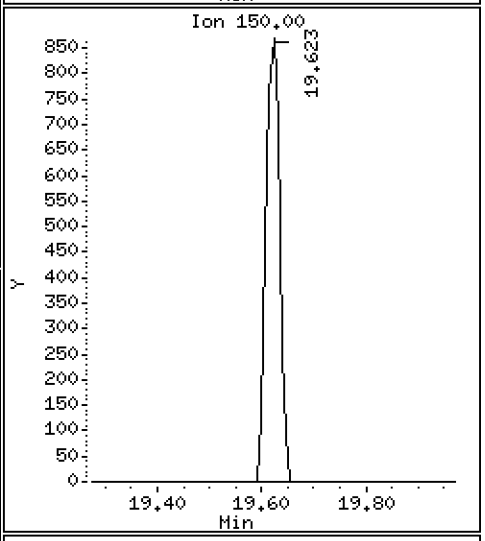
63 Di-n-butylphthalate

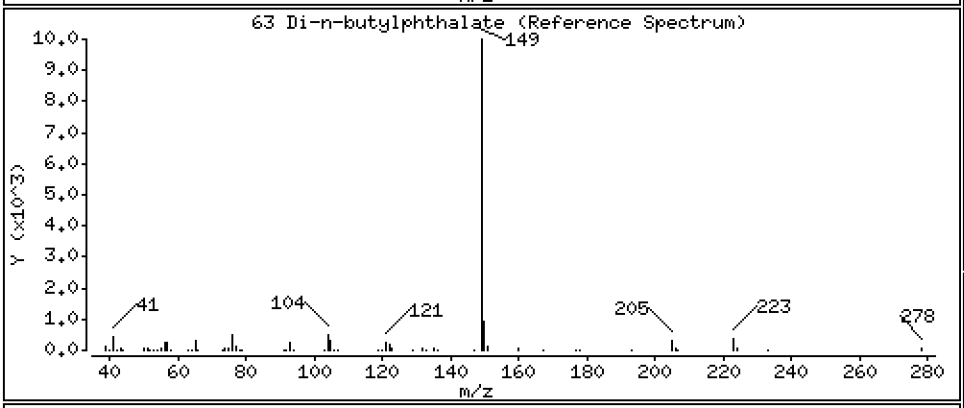
Concentration: 0.1906 ug/mL

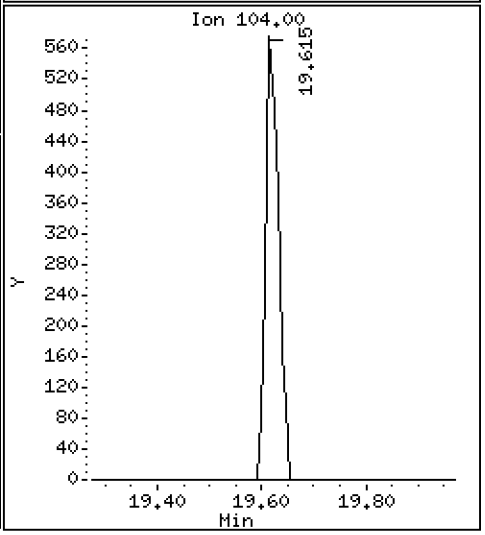


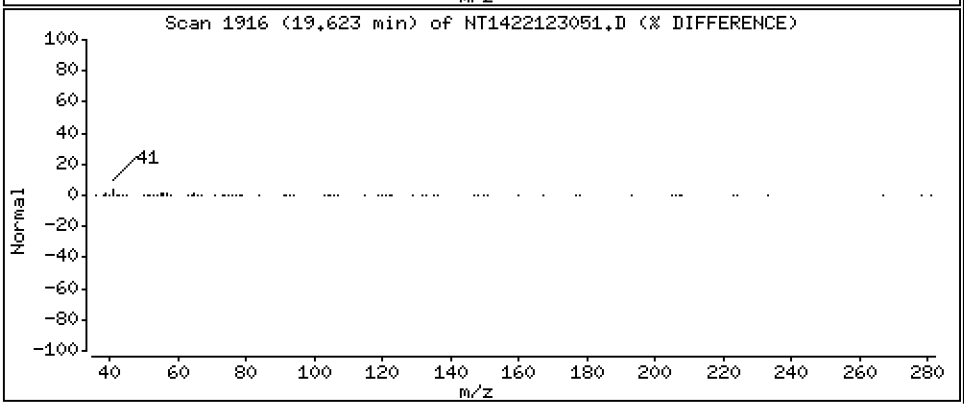












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

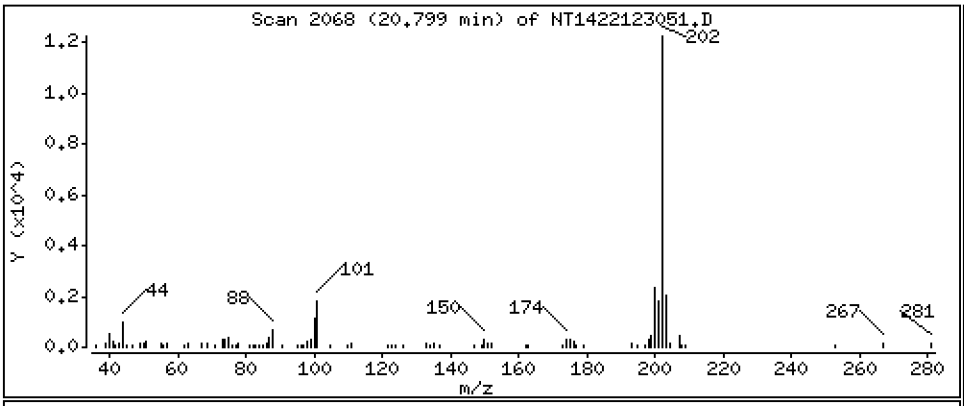
Operator: VTS

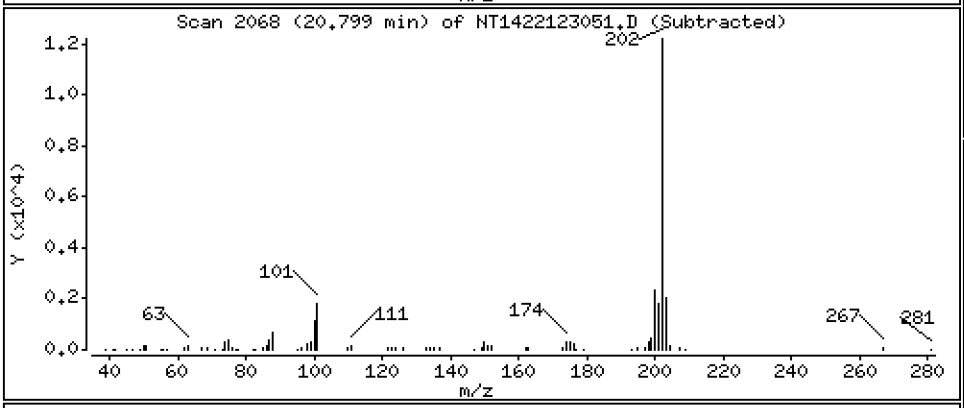
Column phase: ZB-5msi

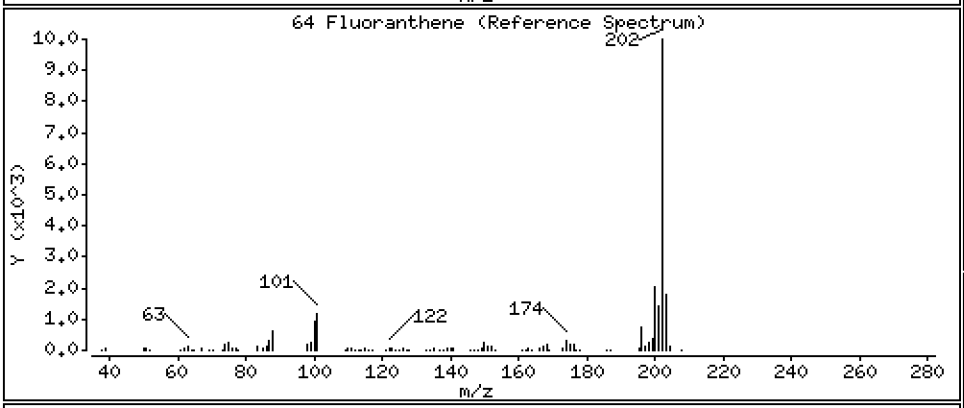
Column diameter: 0.25

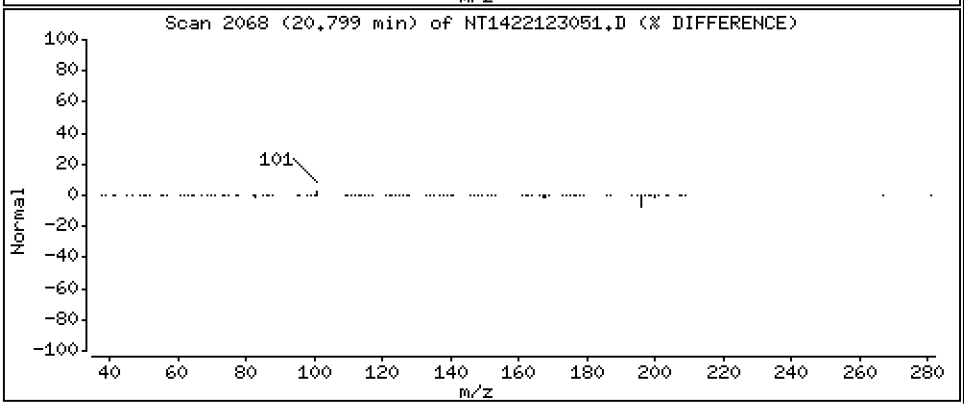
64 Fluoranthene

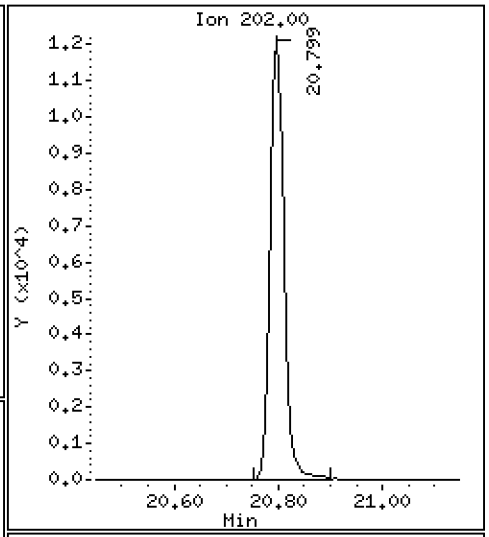
Concentration: 0.2308 ug/mL

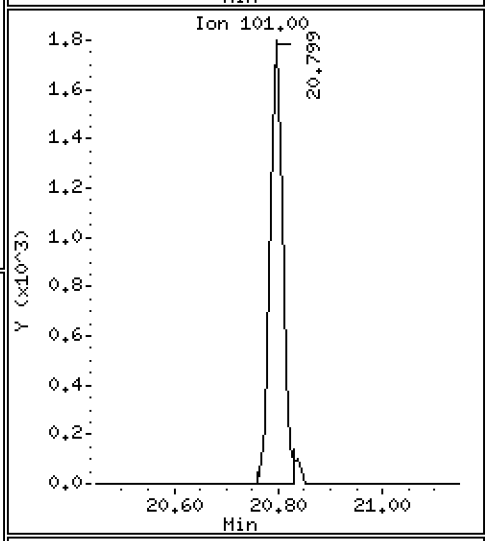


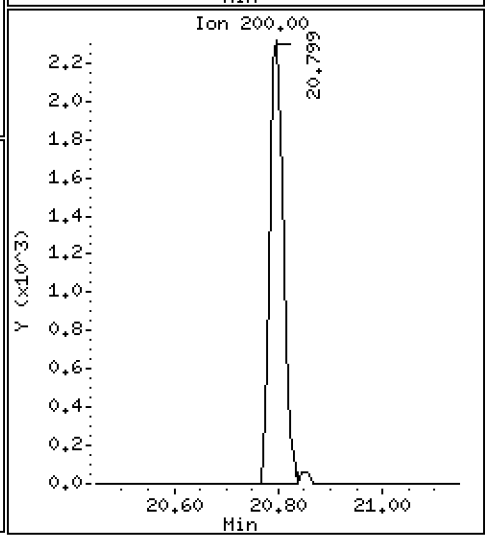












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

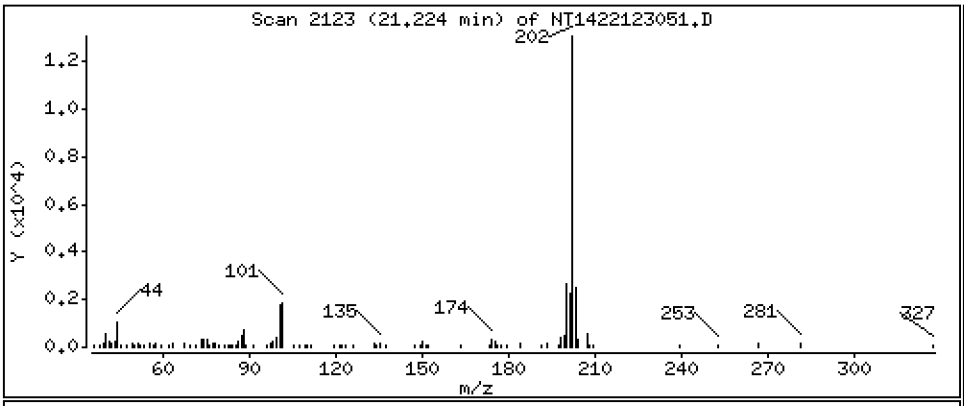
Operator: VTS

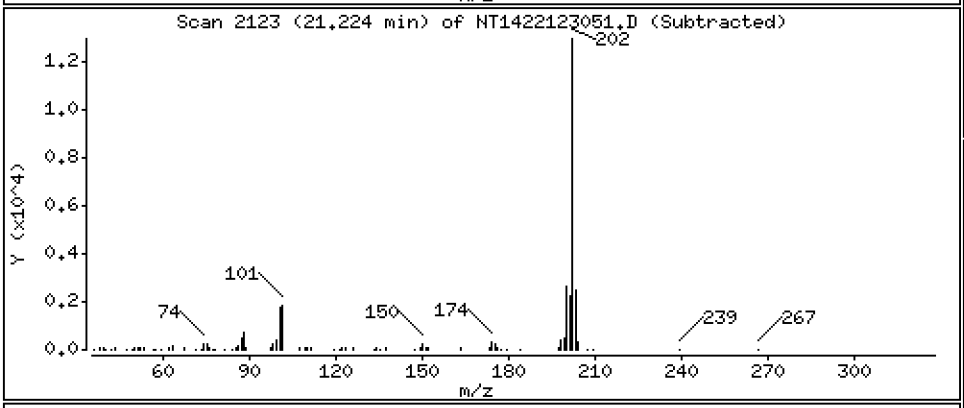
Column phase: ZB-5msi

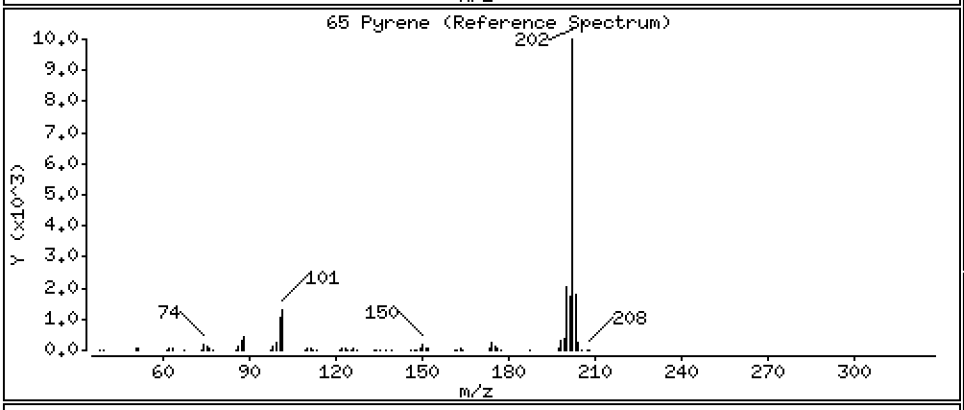
Column diameter: 0.25

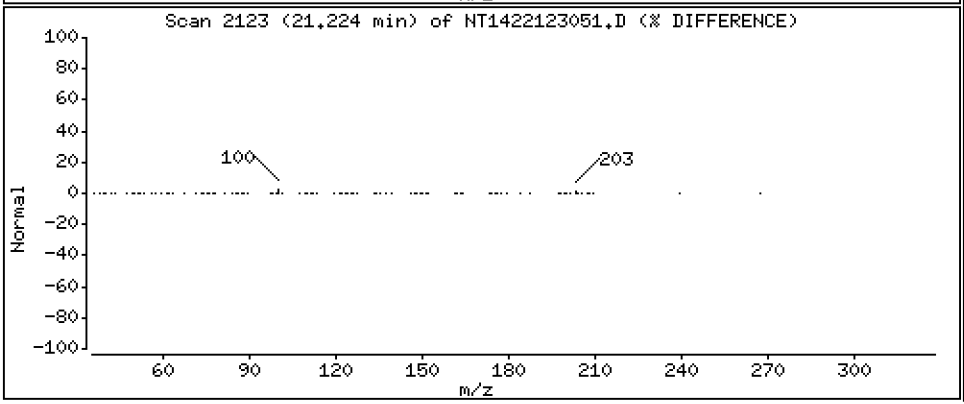
65 Pyrene

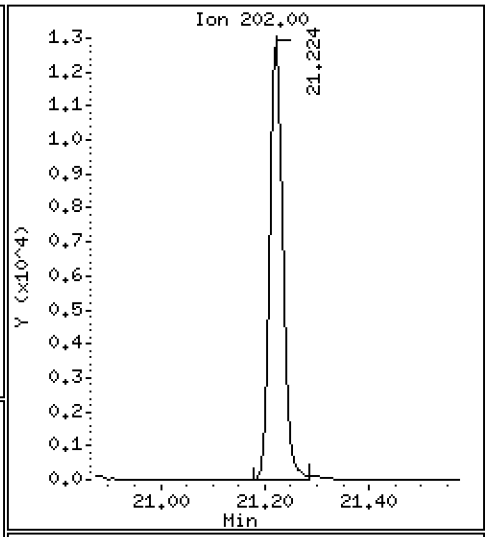
Concentration: 0.2212 ug/mL

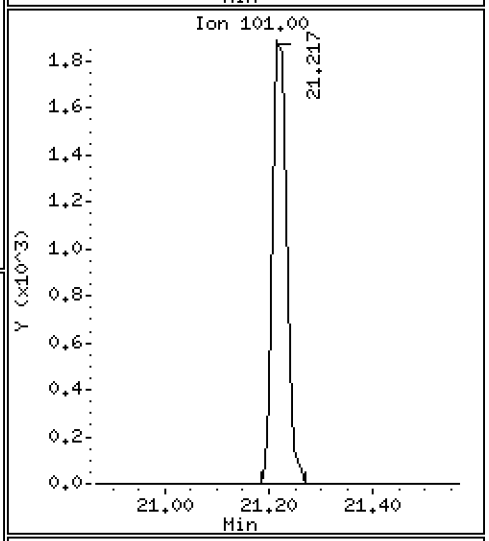


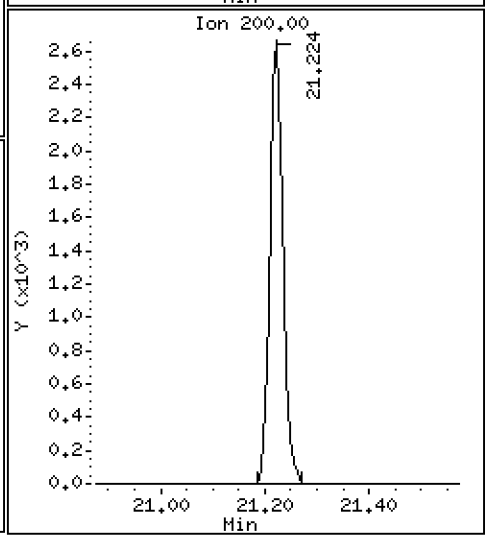












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

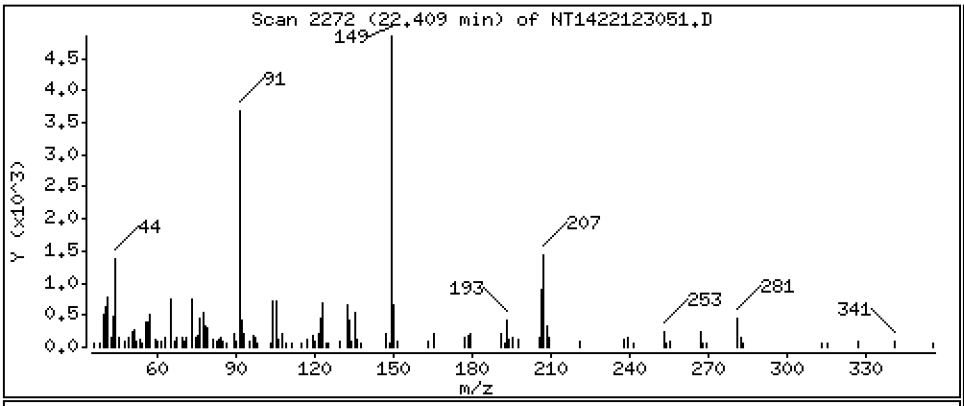
Operator: VTS

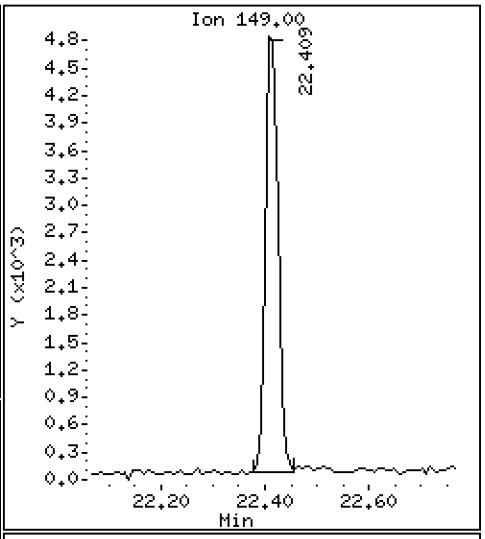
Column phase: ZB-5msi

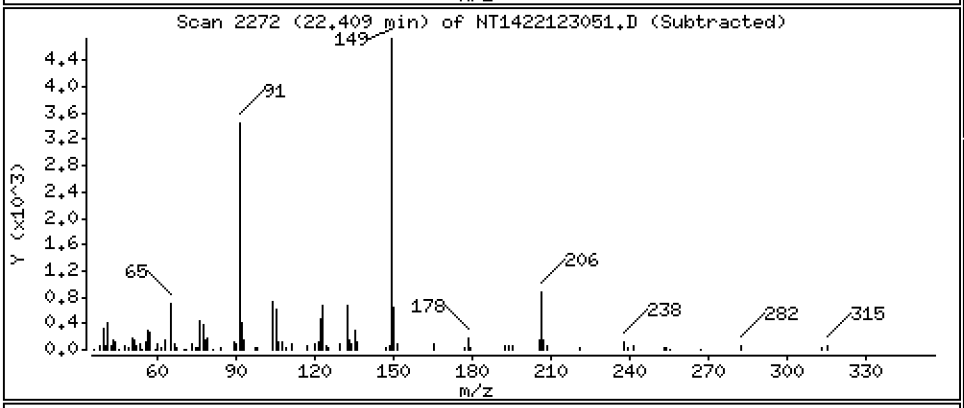
Column diameter: 0.25

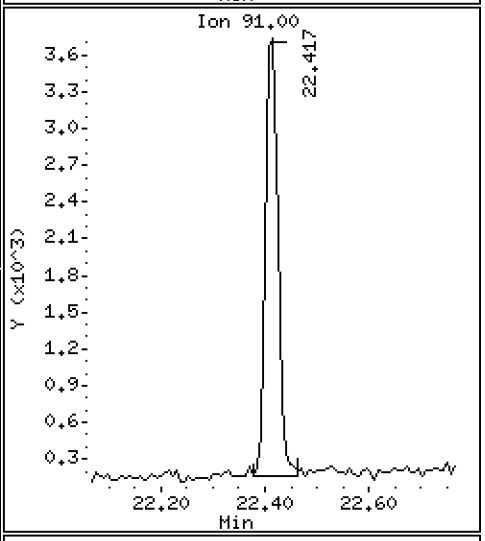
67 Butylbenzylphthalate

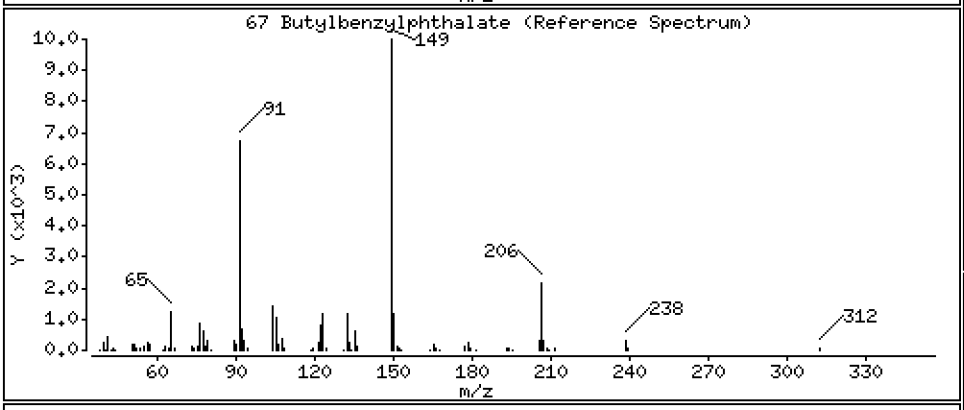
Concentration: 0.2080 ug/mL

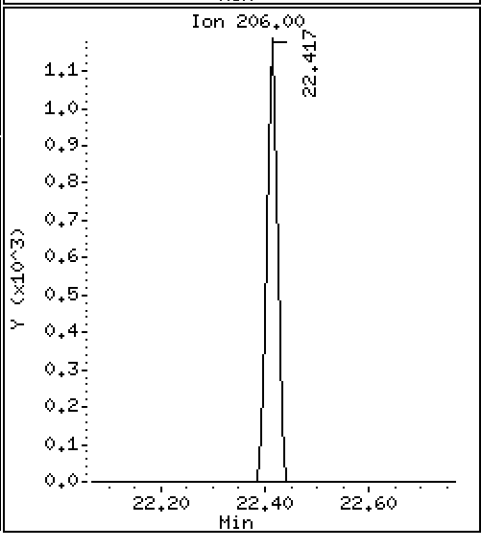


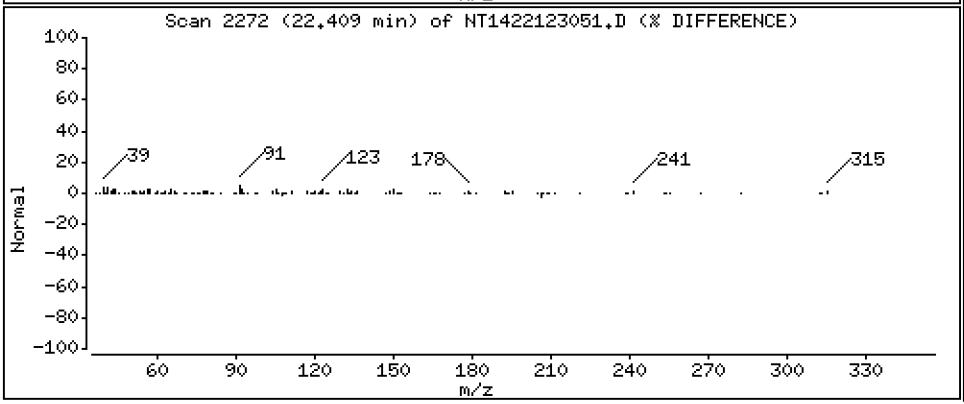












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

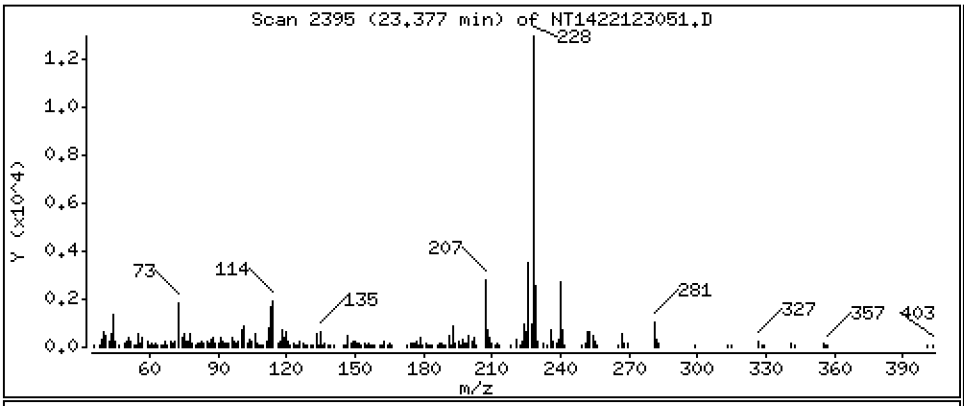
Operator: VTS

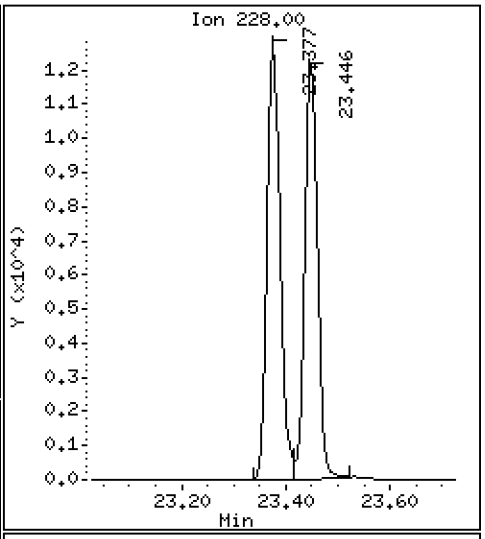
Column phase: ZB-5msi

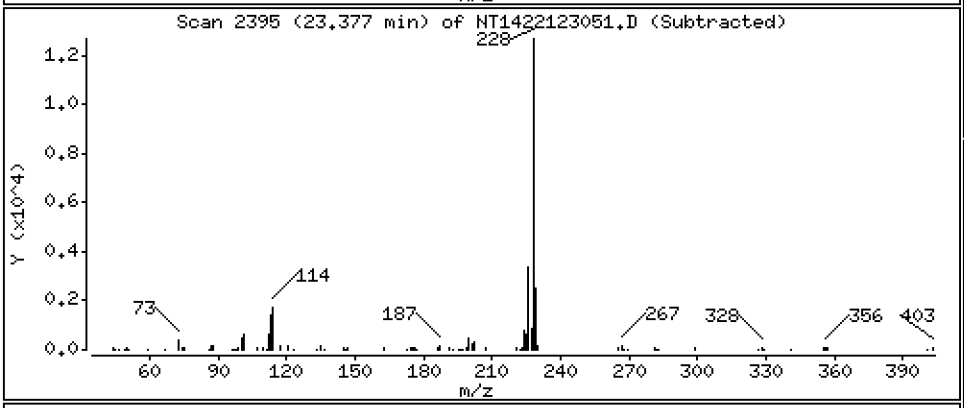
Column diameter: 0.25

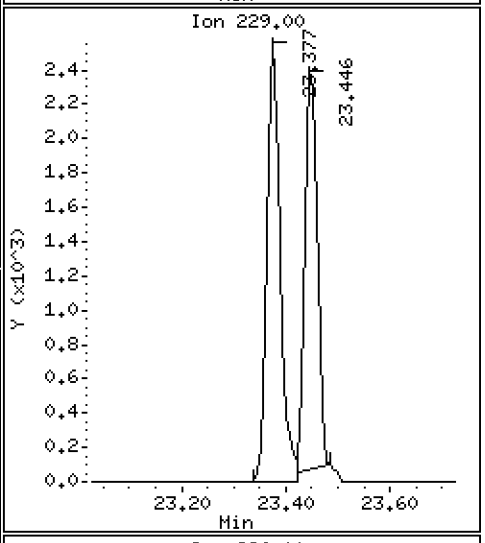
68 Benzo(a)anthracene

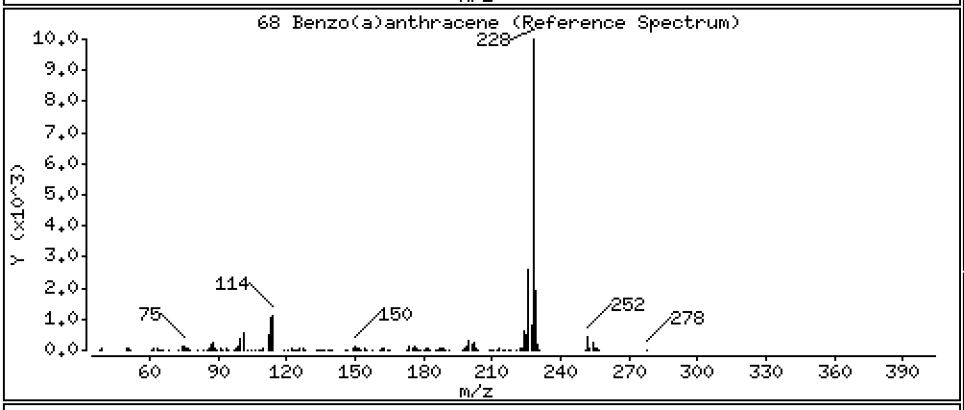
Concentration: 0.2415 ug/mL

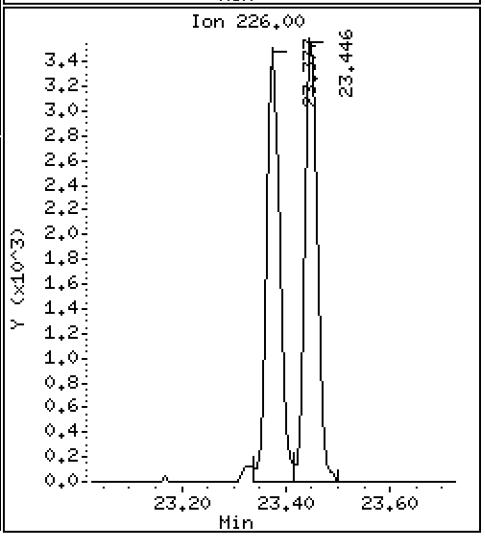


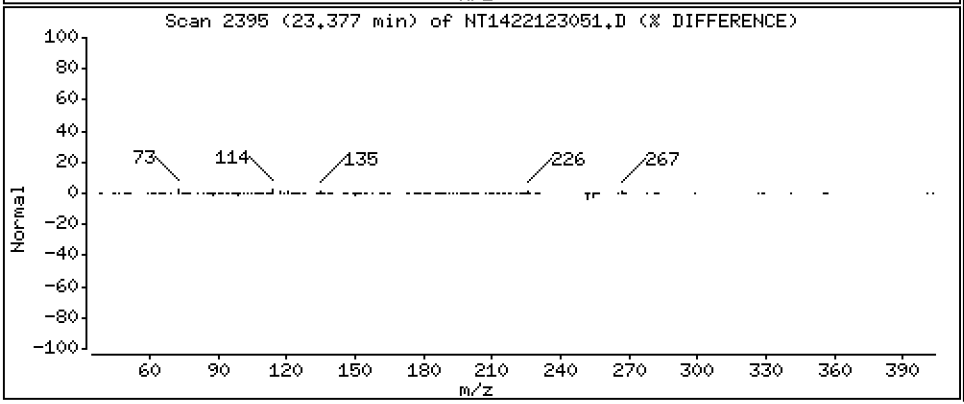












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

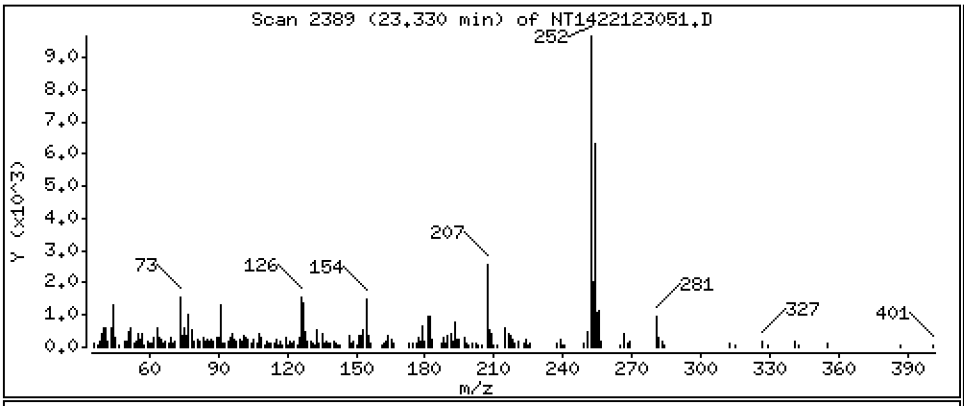
Operator: VTS

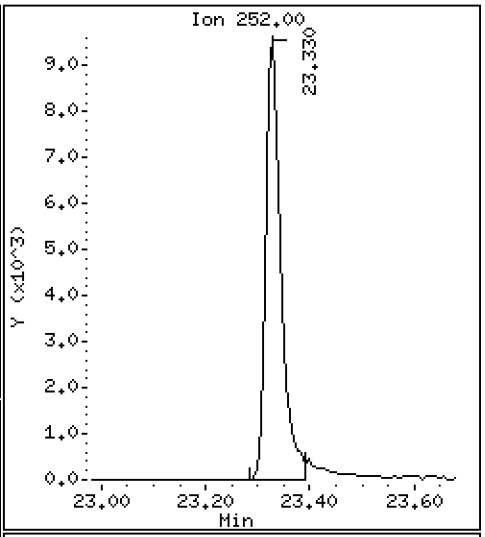
Column phase: ZB-5msi

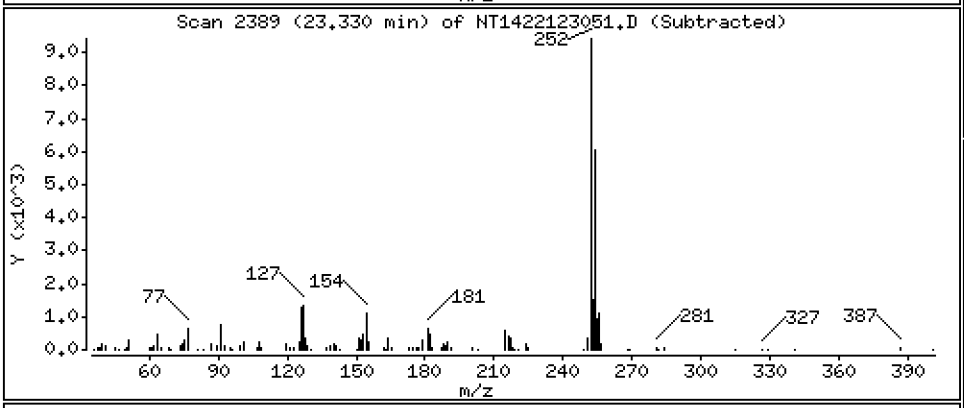
Column diameter: 0.25

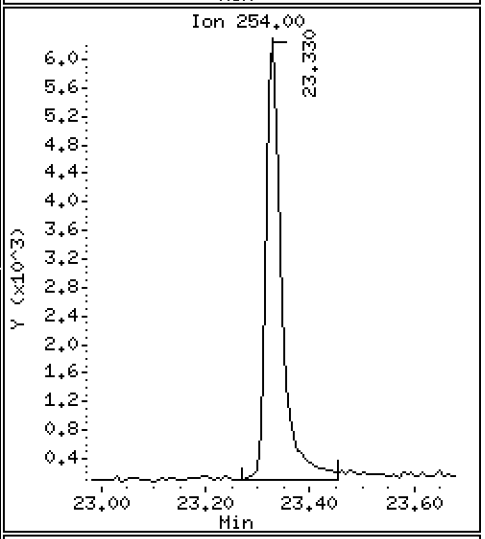
70 3,3'-Dichlorobenzidine

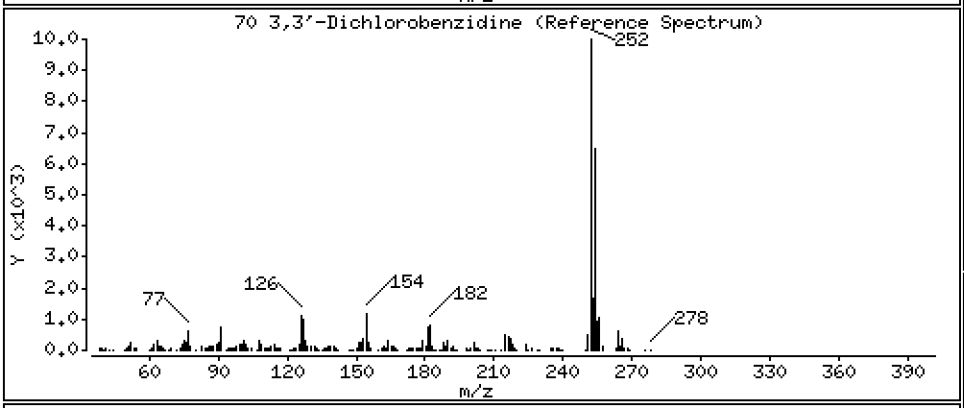
Concentration: 0.6962 ug/mL

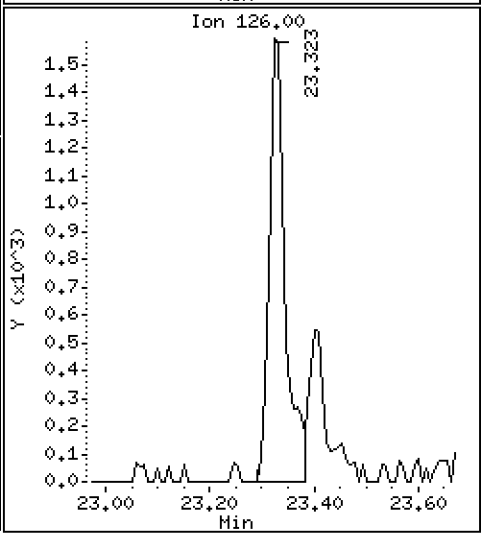


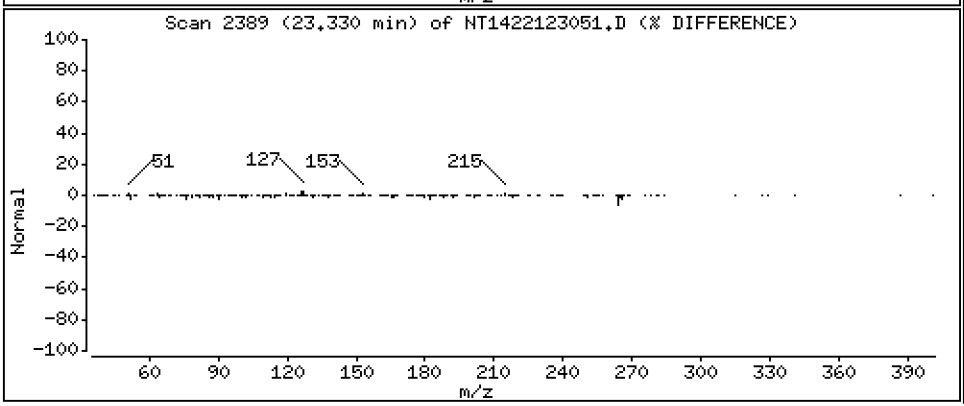












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

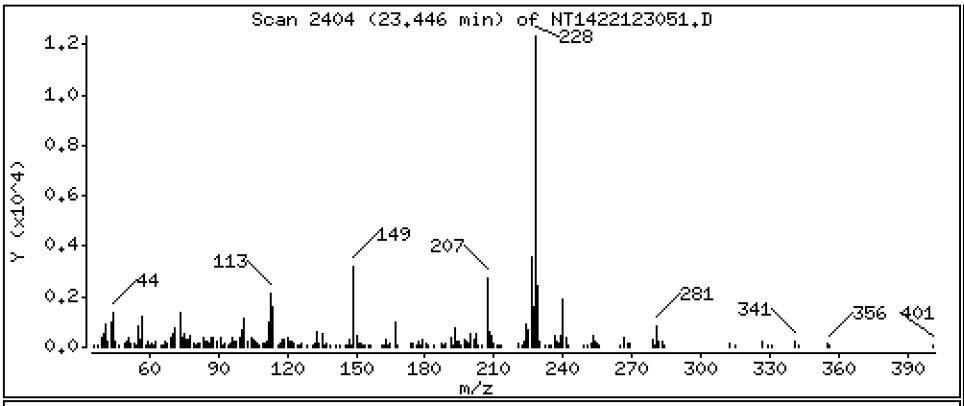
Operator: VTS

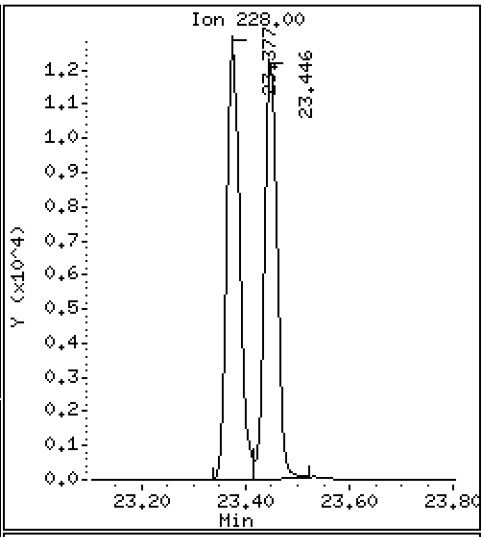
Column phase: ZB-5msi

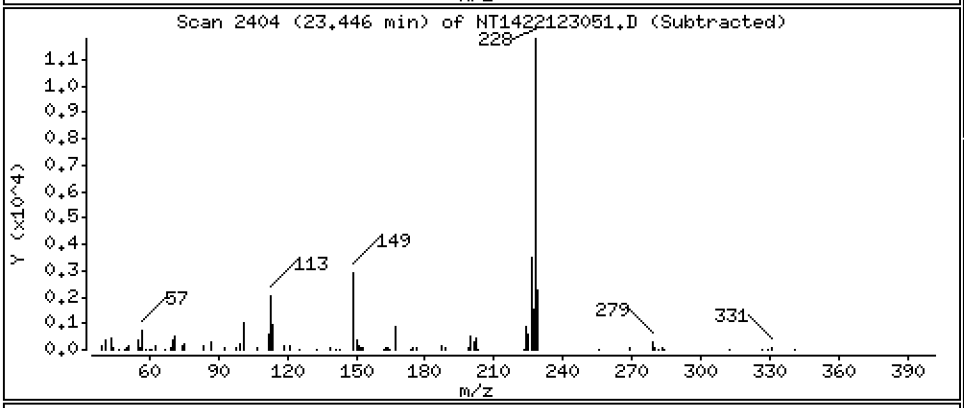
Column diameter: 0.25

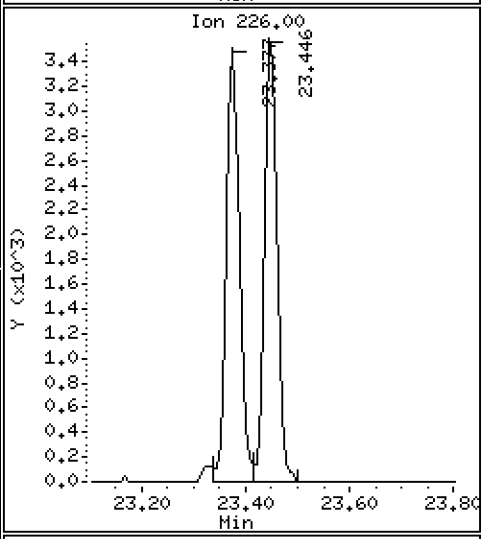
71 Chrysene

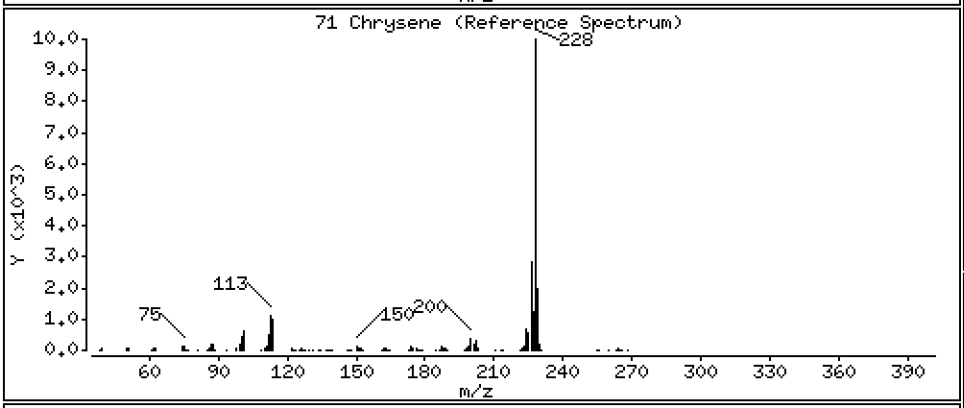
Concentration: 0.2414 ug/mL

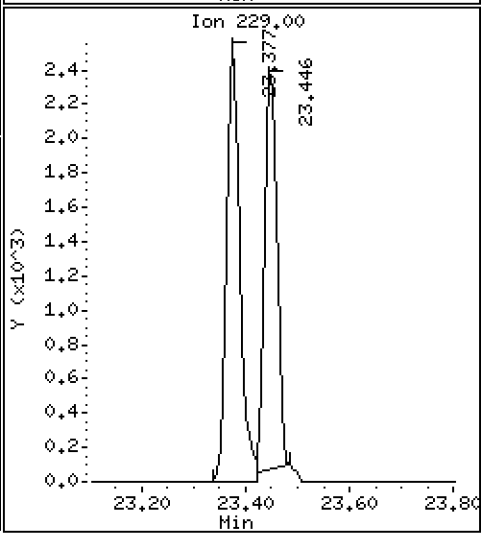


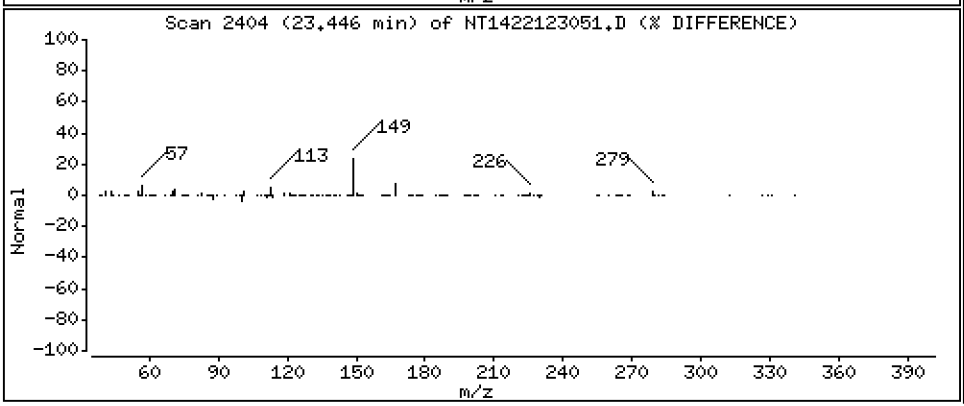












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

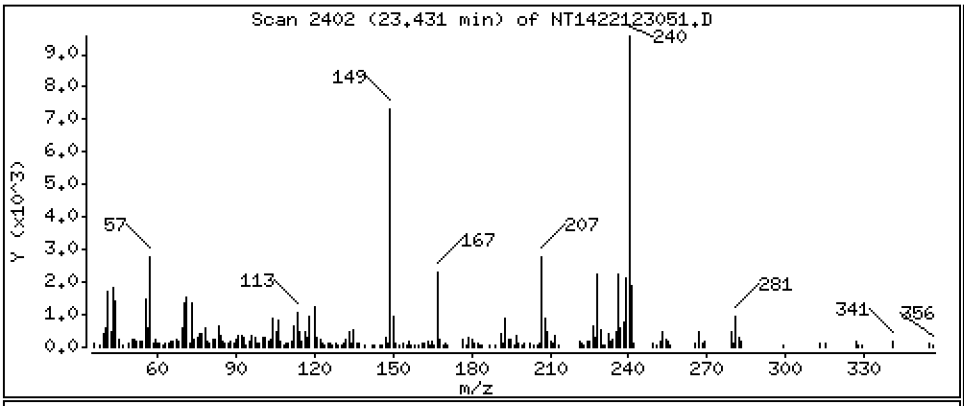
Operator: VTS

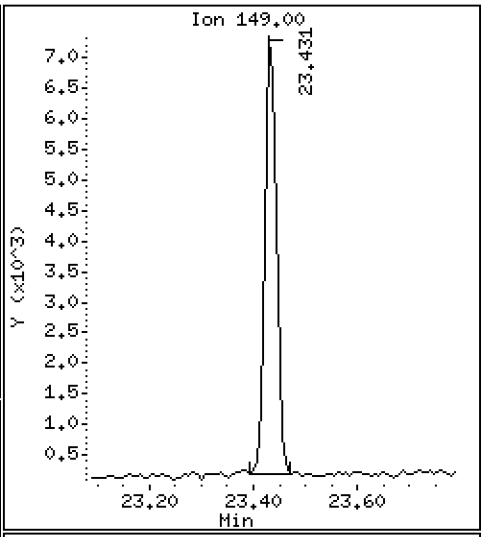
Column phase: ZB-5msi

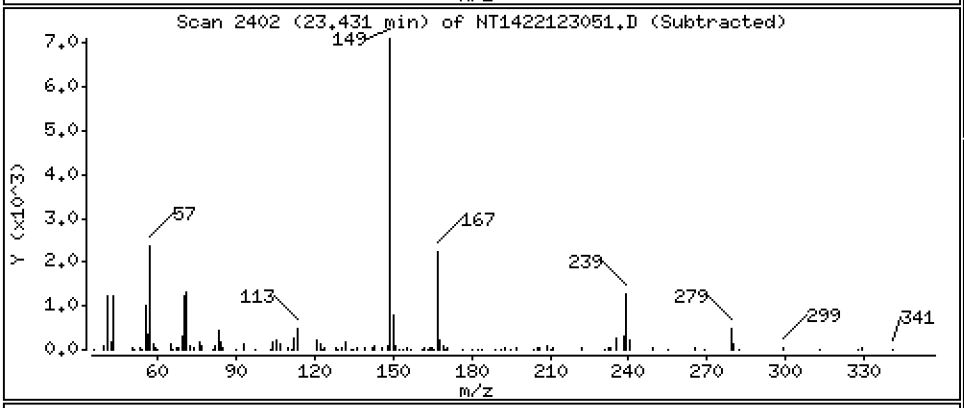
Column diameter: 0.25

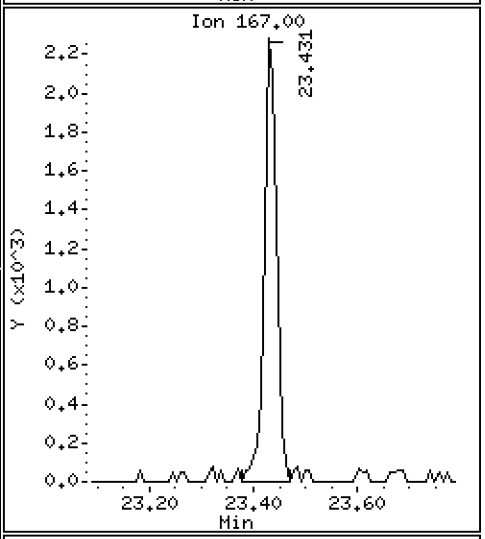
72 bis(2-Ethylhexyl)phthalate

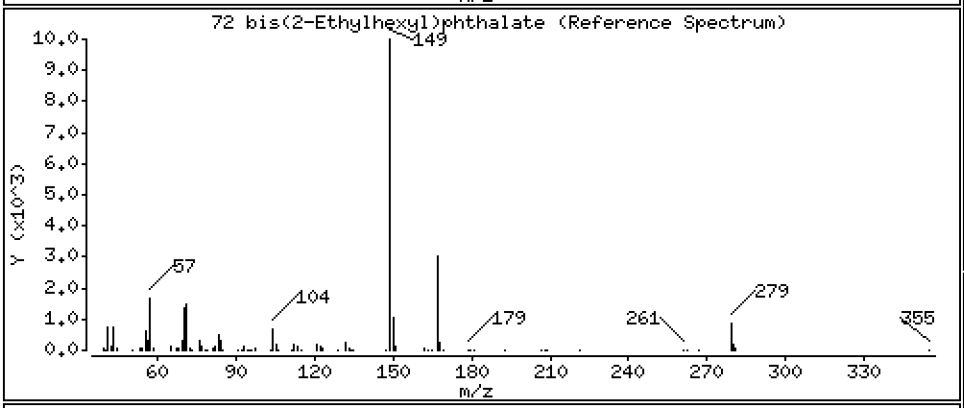
Concentration: 0.2185 ug/mL

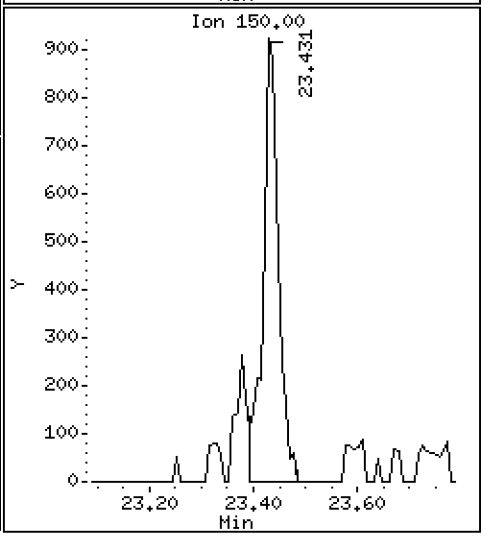


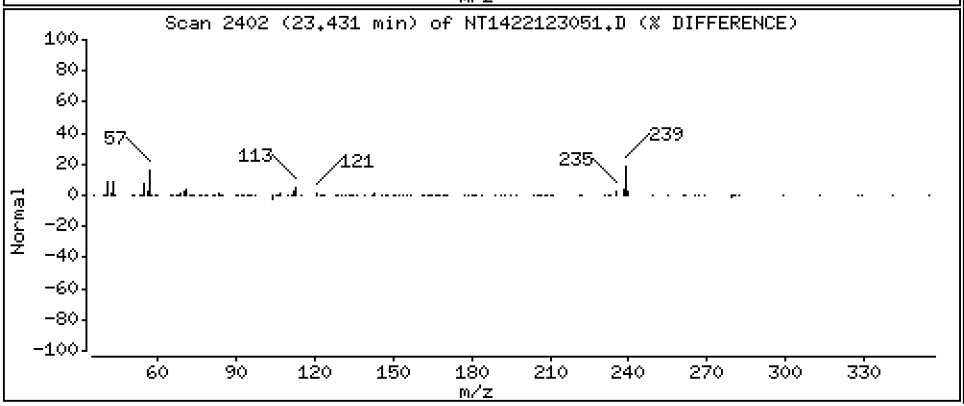












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

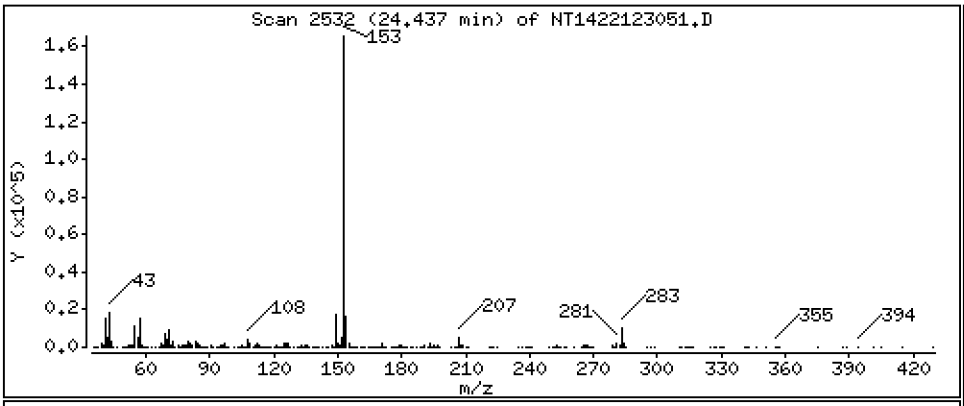
Operator: VTS

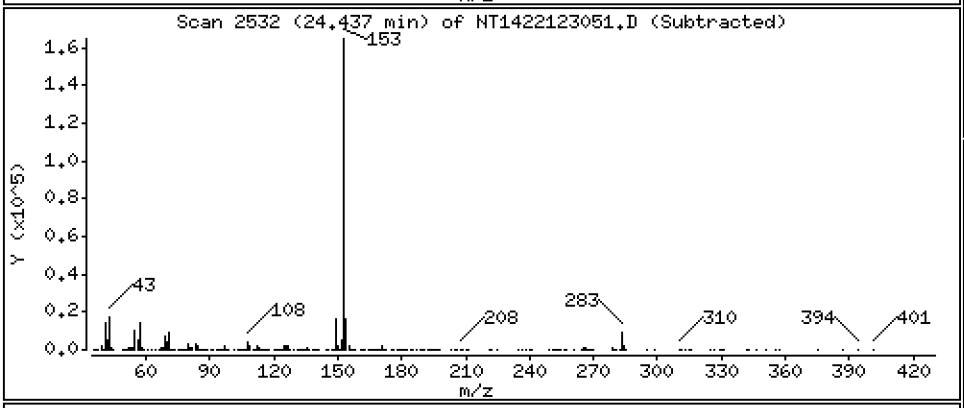
Column phase: ZB-5msi

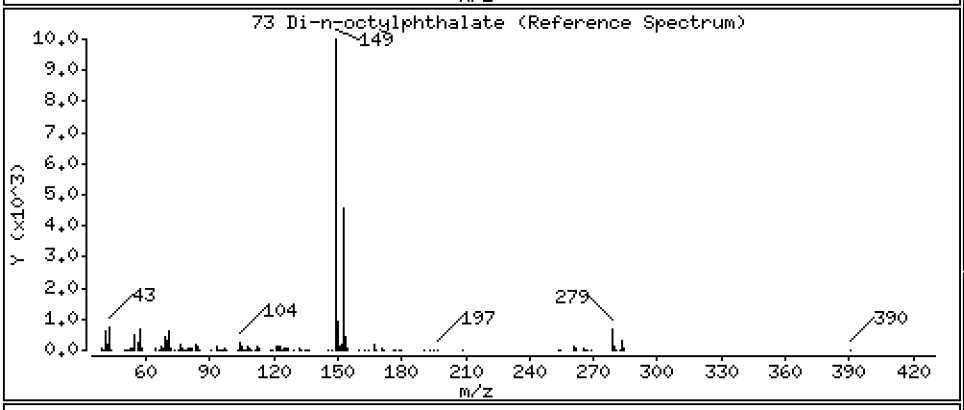
Column diameter: 0.25

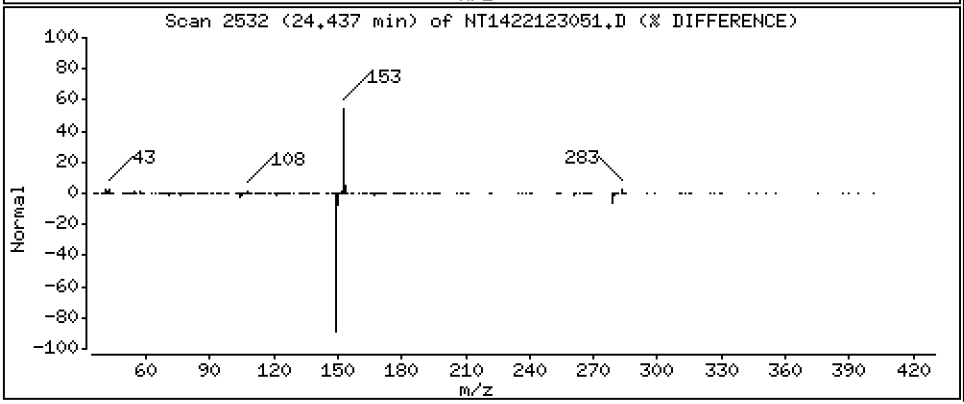
73 Di-n-octylphthalate

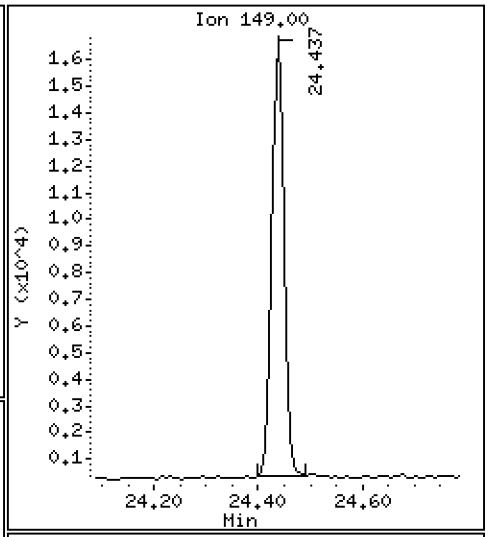
Concentration: 0.2419 ug/mL

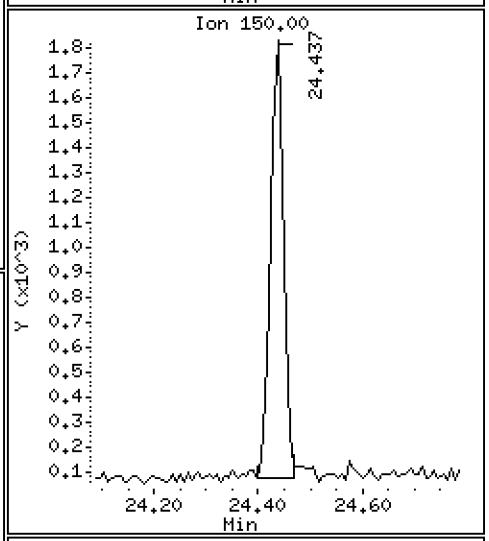


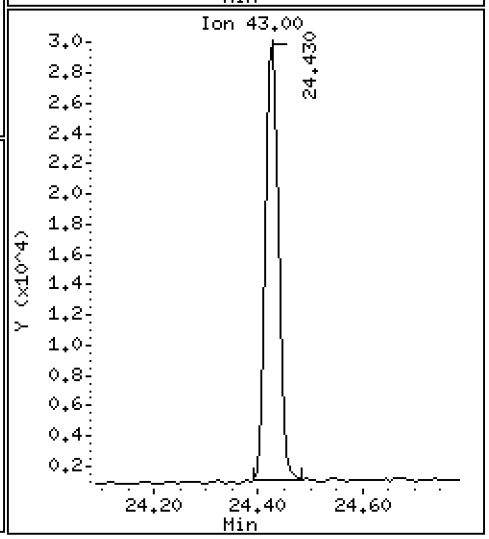












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

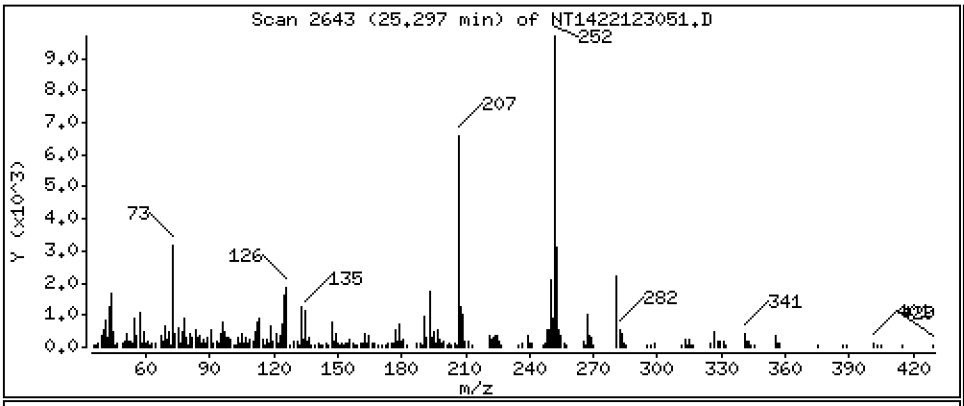
Operator: VTS

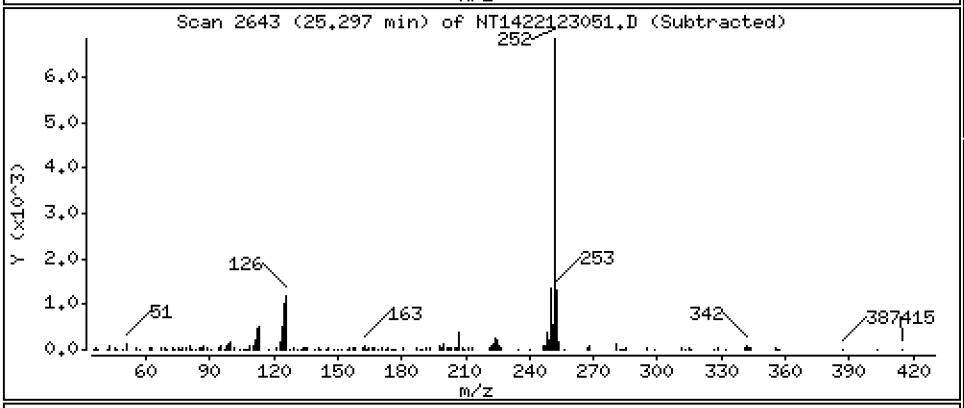
Column phase: ZB-5msi

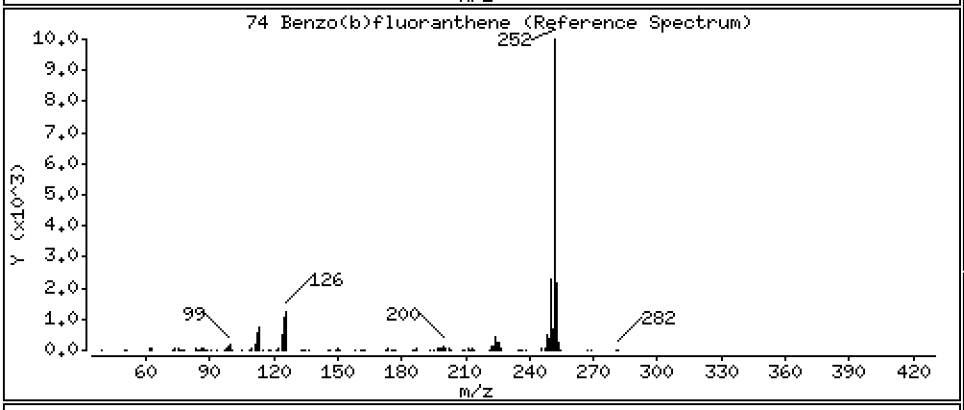
Column diameter: 0.25

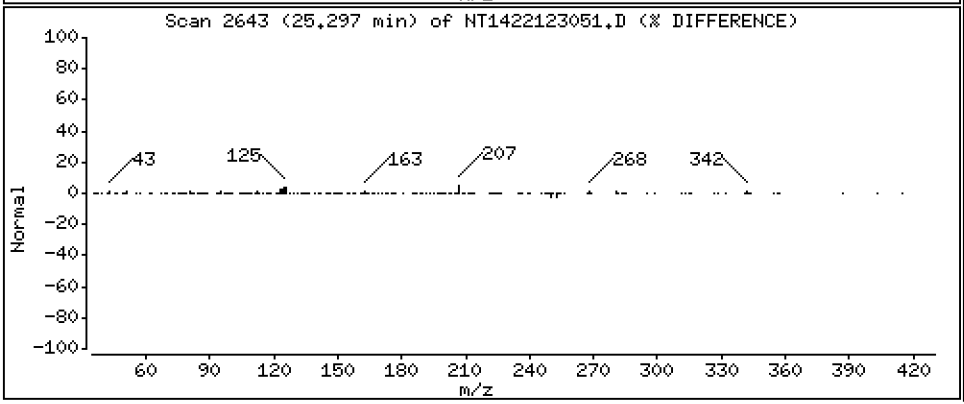
74 Benzo(b)fluoranthene

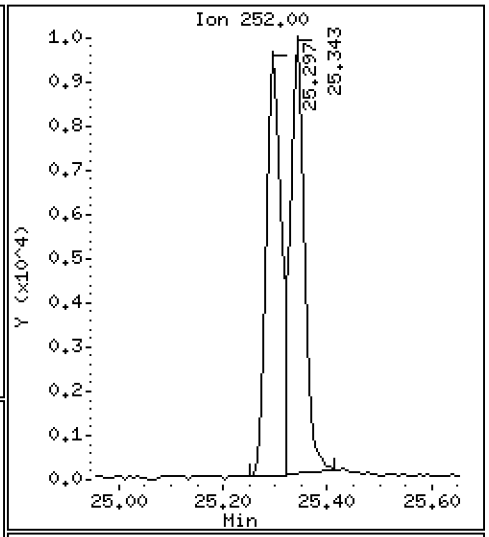
Concentration: 0.2459 ug/mL

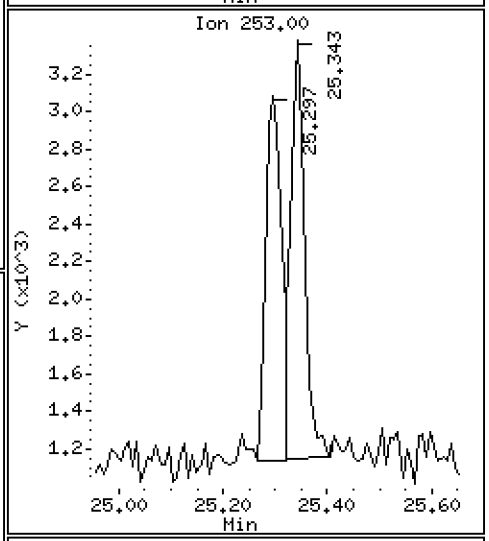


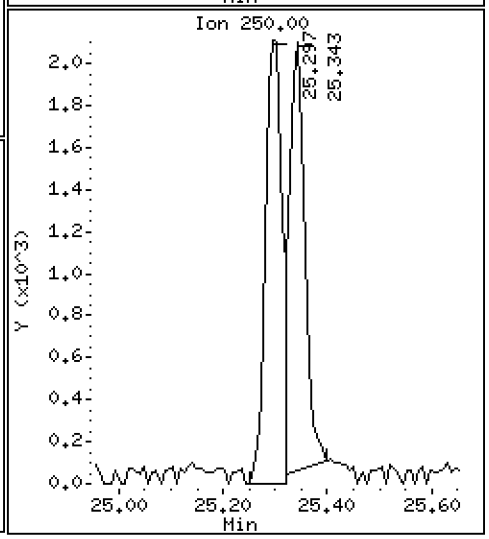












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

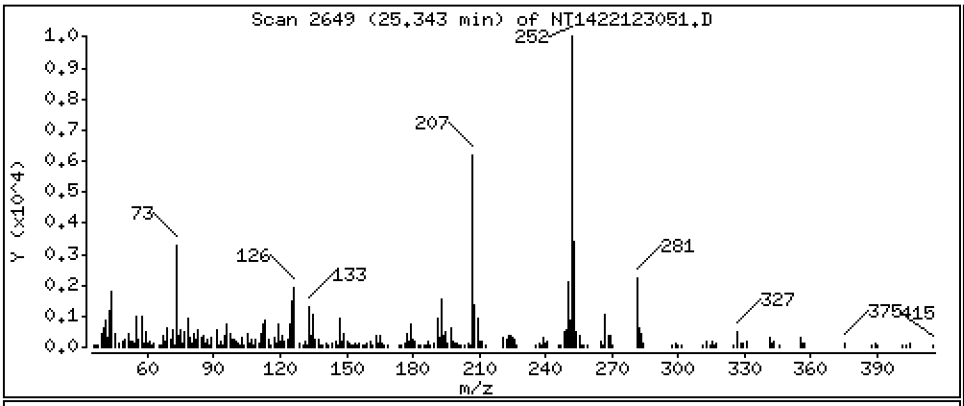
Operator: VTS

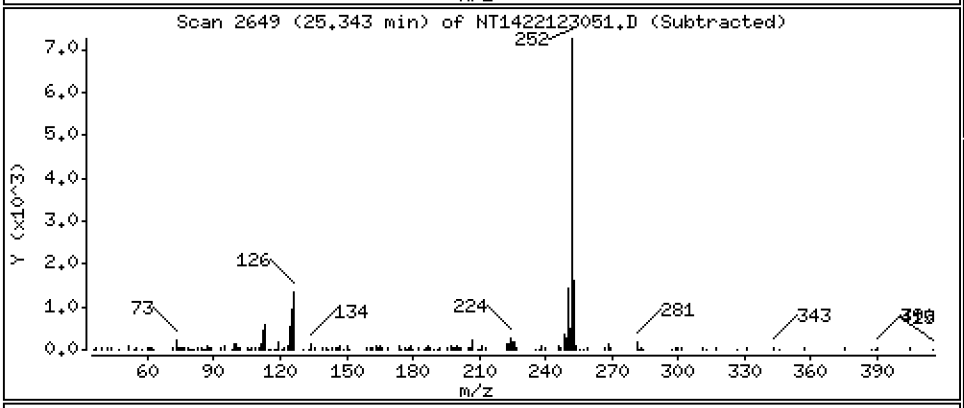
Column phase: ZB-5msi

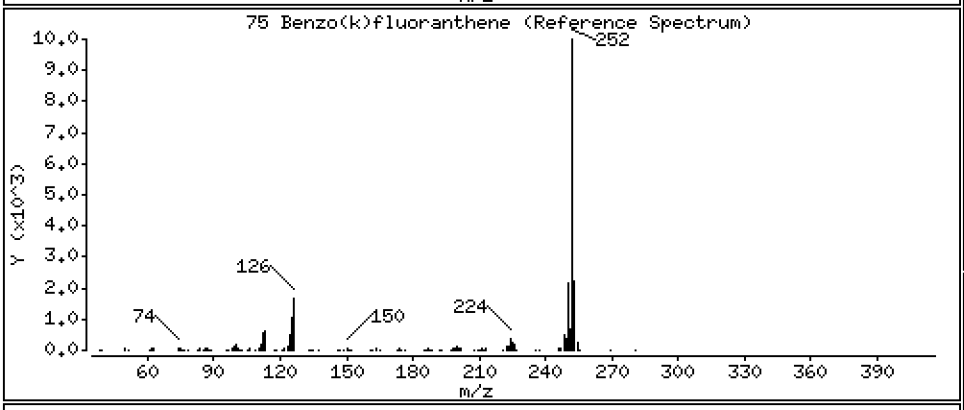
Column diameter: 0.25

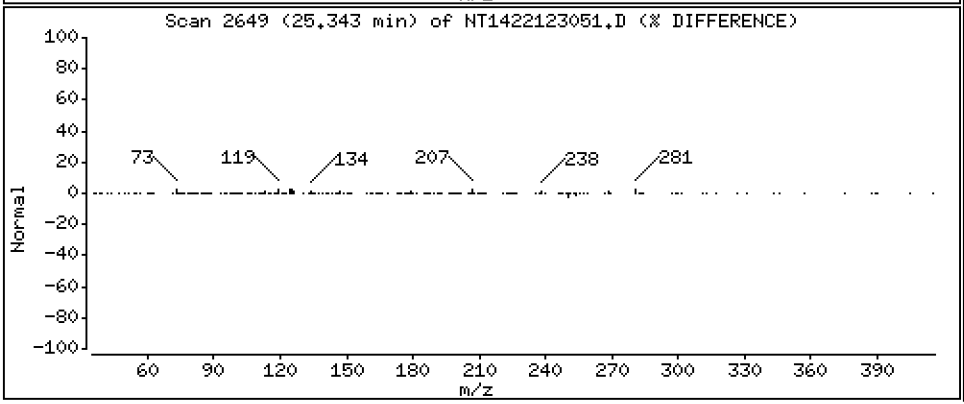
75 Benzo(k)fluoranthene

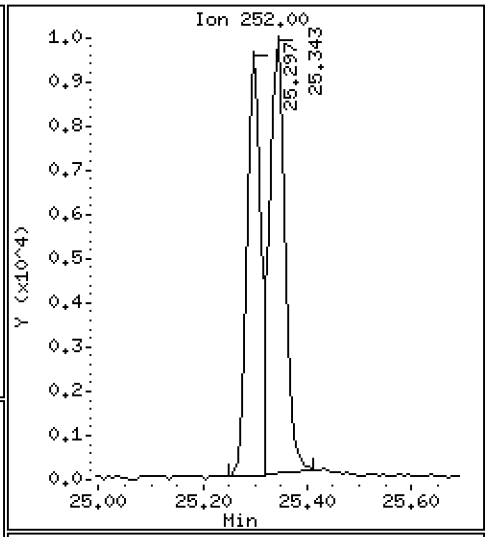
Concentration: 0.2549 ug/mL

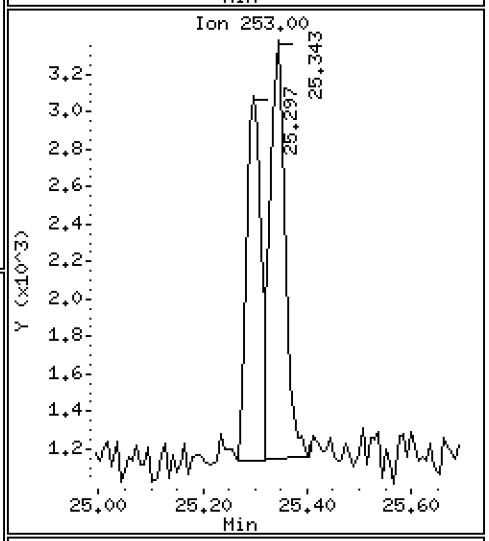


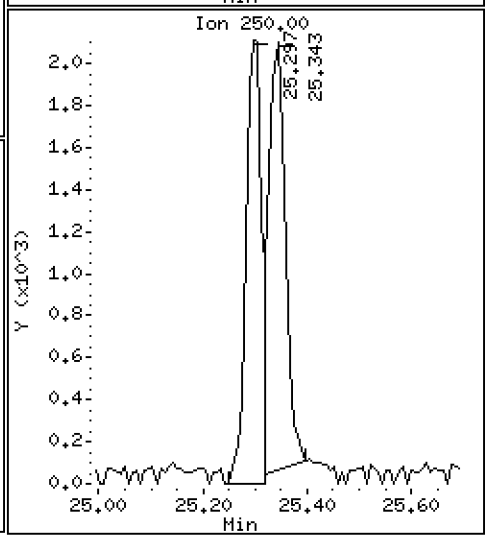












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

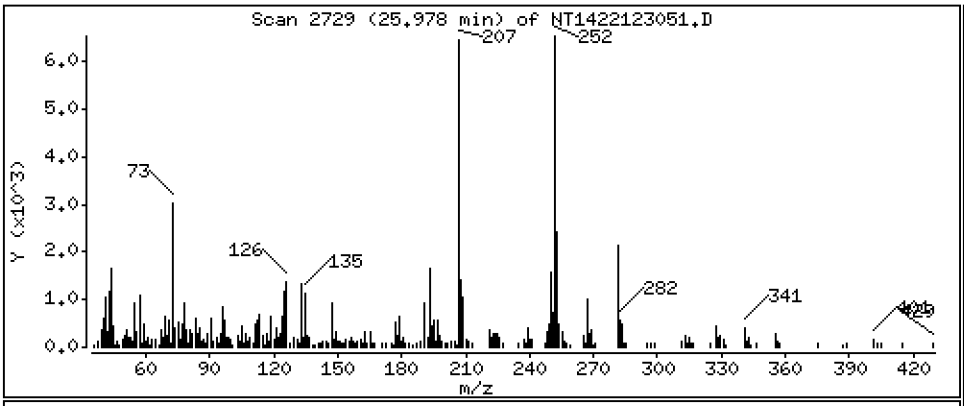
Operator: VTS

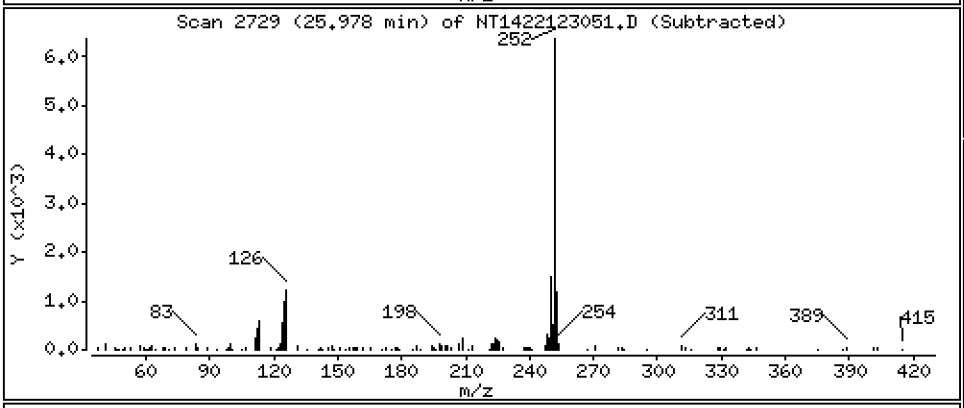
Column phase: ZB-5msi

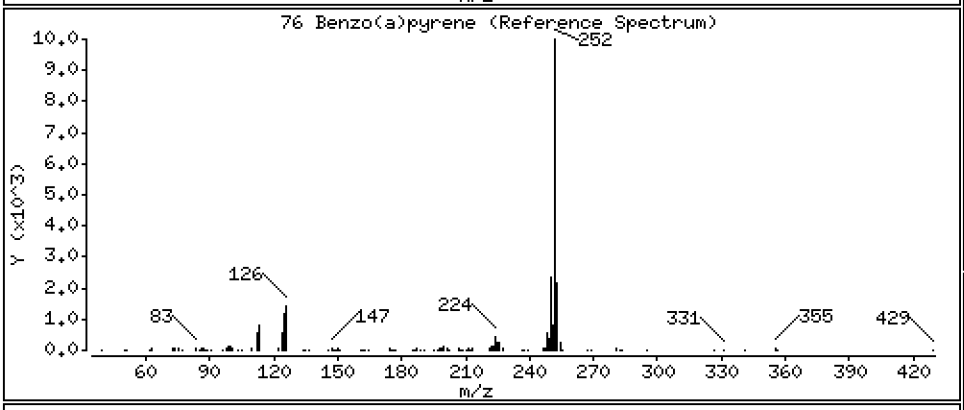
Column diameter: 0.25

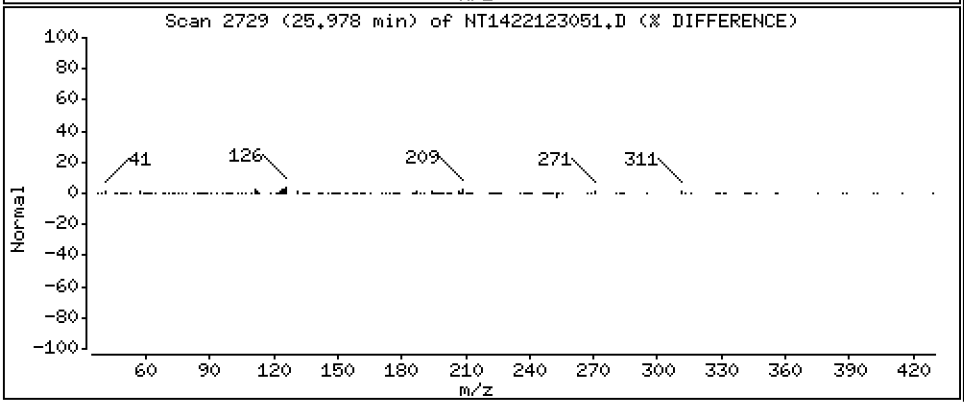
76 Benzo(a)pyrene

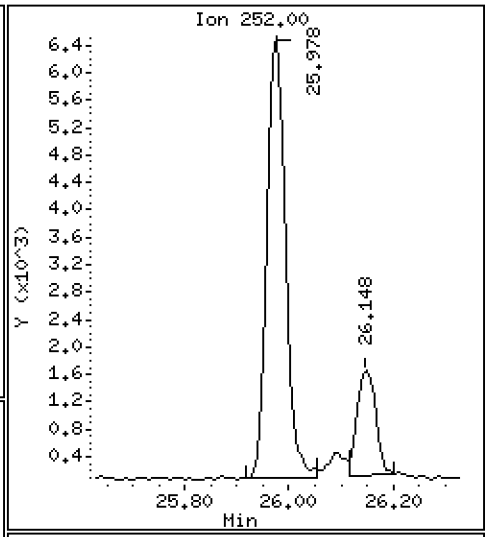
Concentration: 0.2416 ug/mL

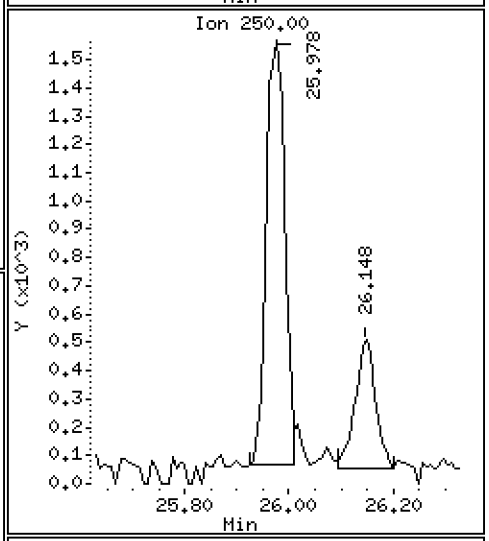


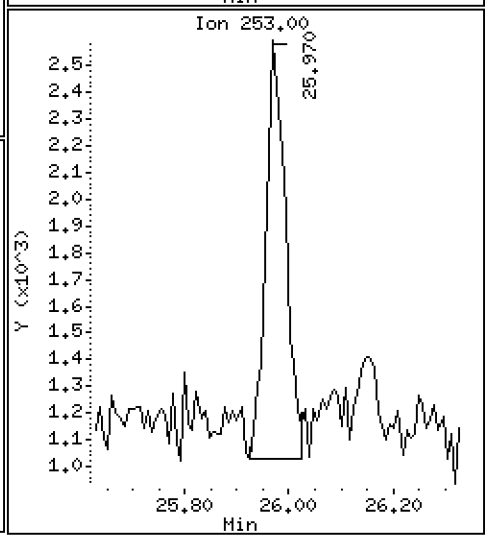












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

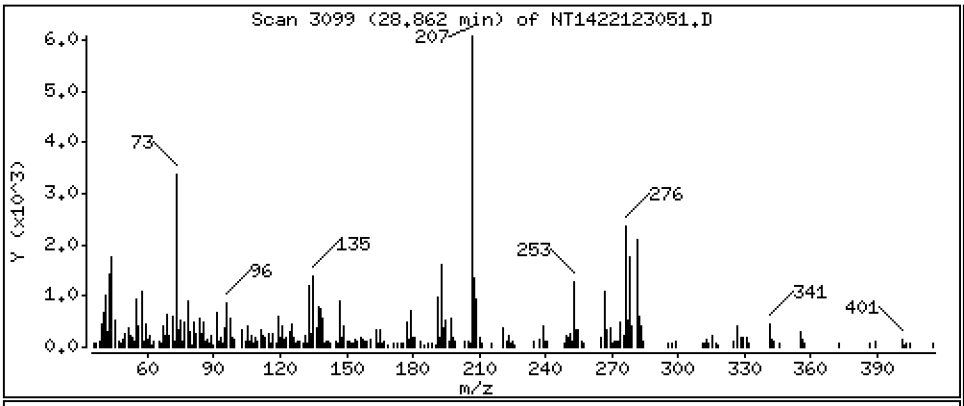
Operator: VTS

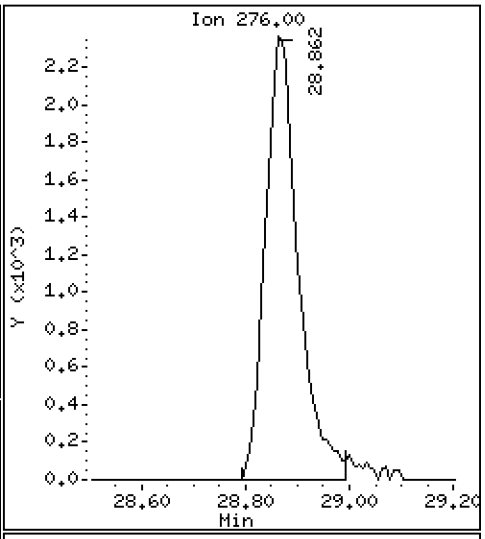
Column phase: ZB-5msi

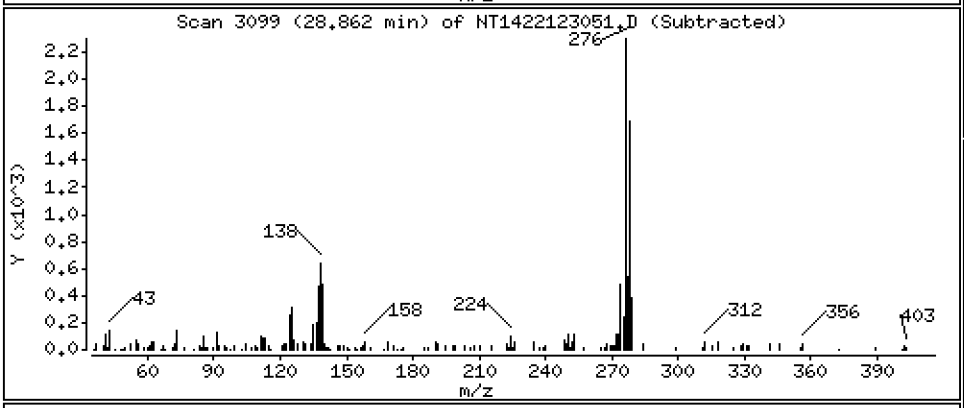
Column diameter: 0.25

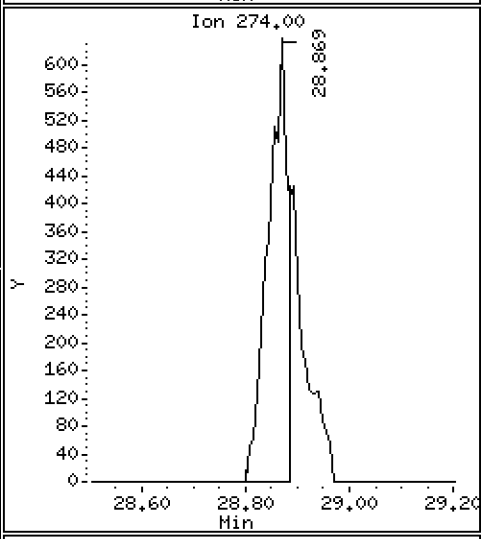
78 Indeno(1,2,3-cd)pyrene

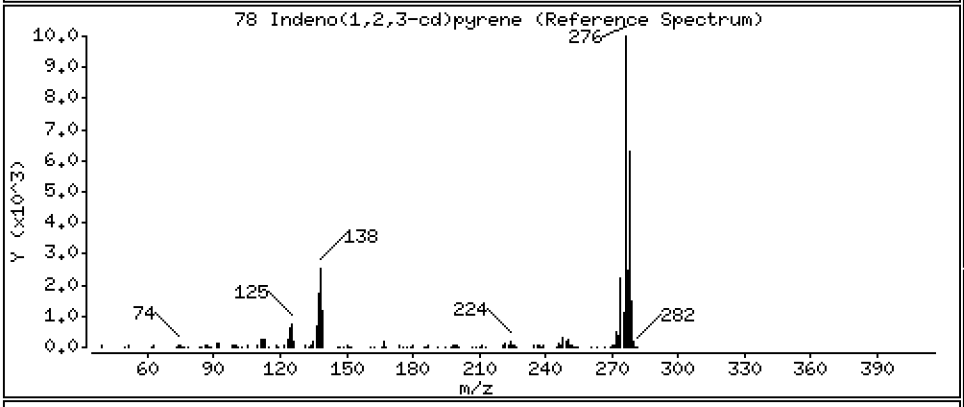
Concentration: 0.1427 ug/mL

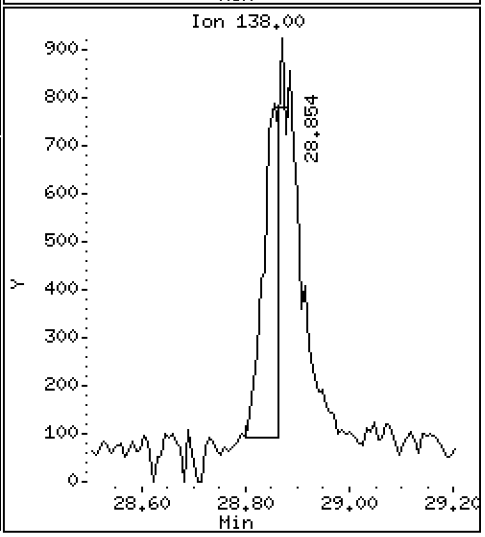


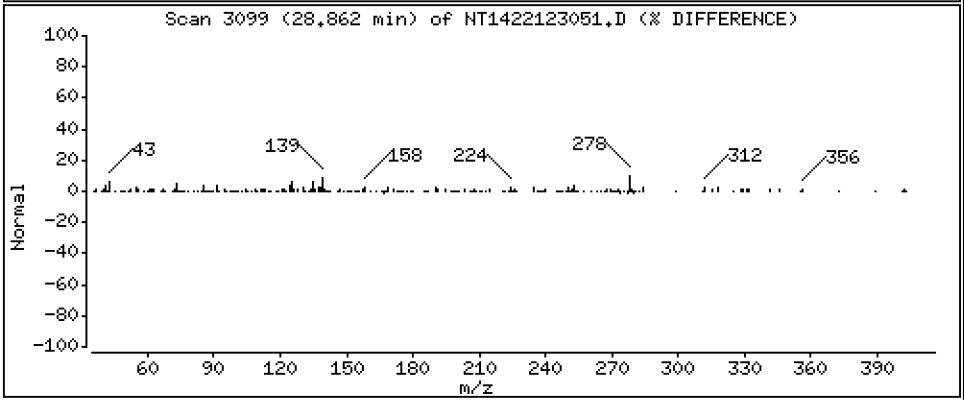












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

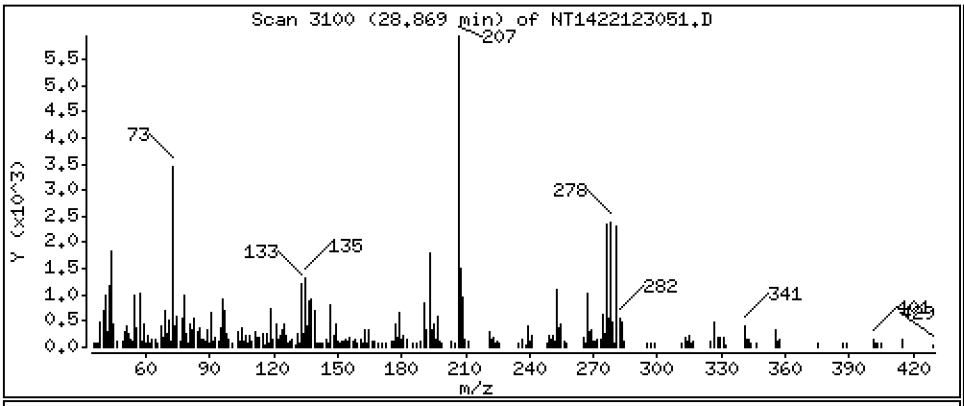
Operator: VTS

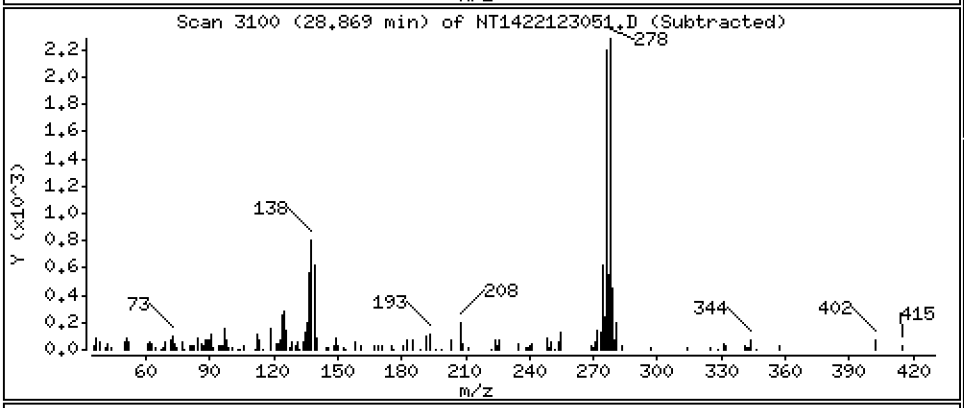
Column phase: ZB-5msi

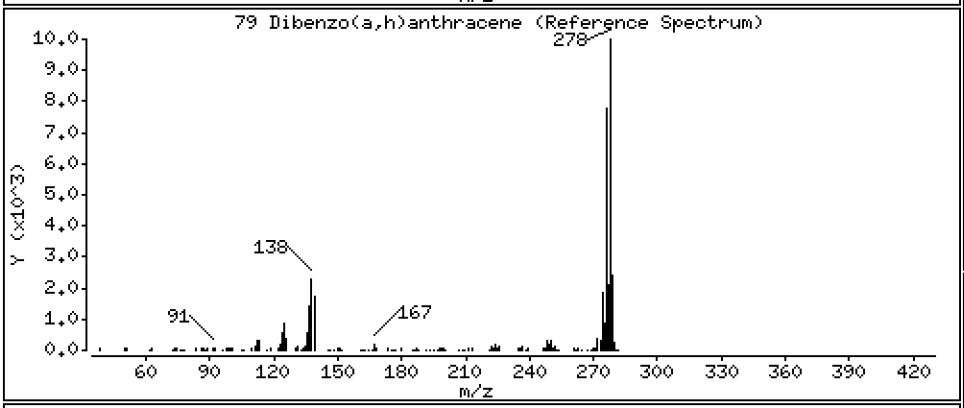
Column diameter: 0.25

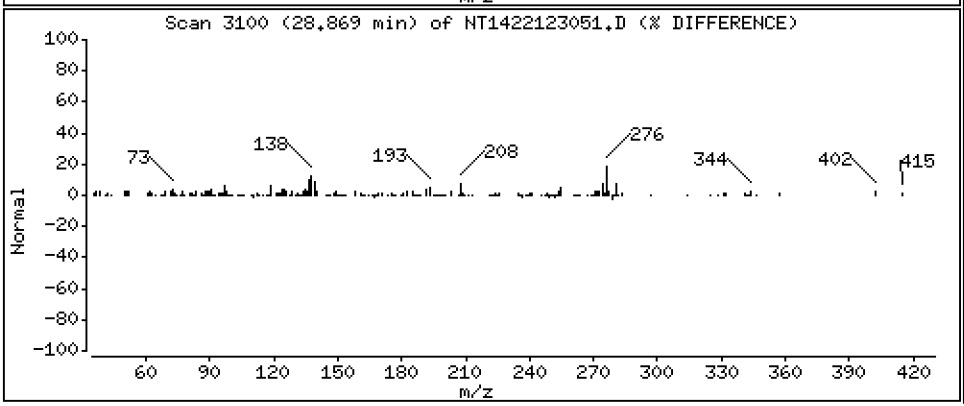
79 Dibenzo(a,h)anthracene

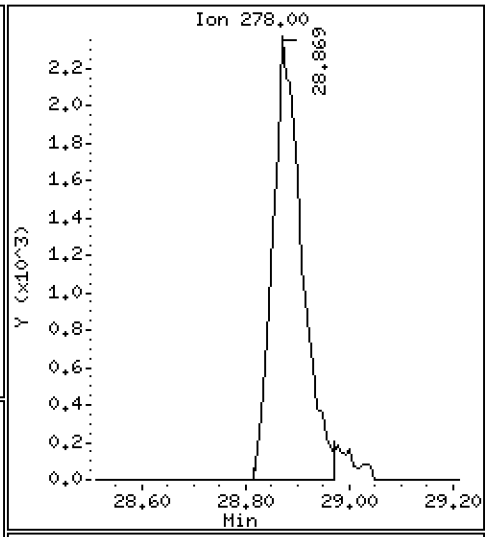
Concentration: 0.1497 ug/mL

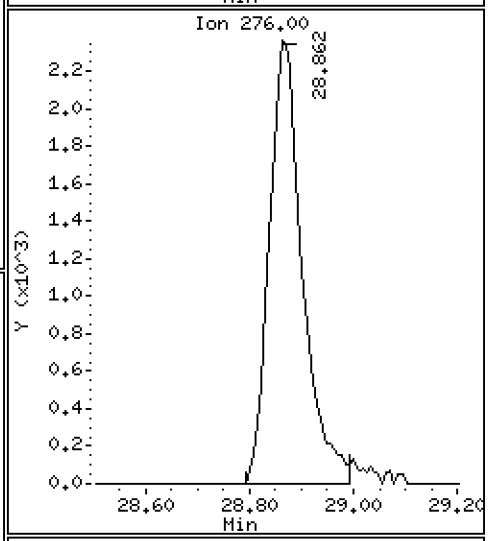


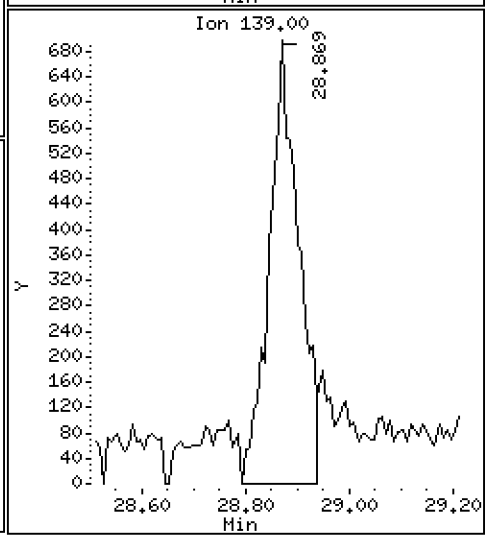












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

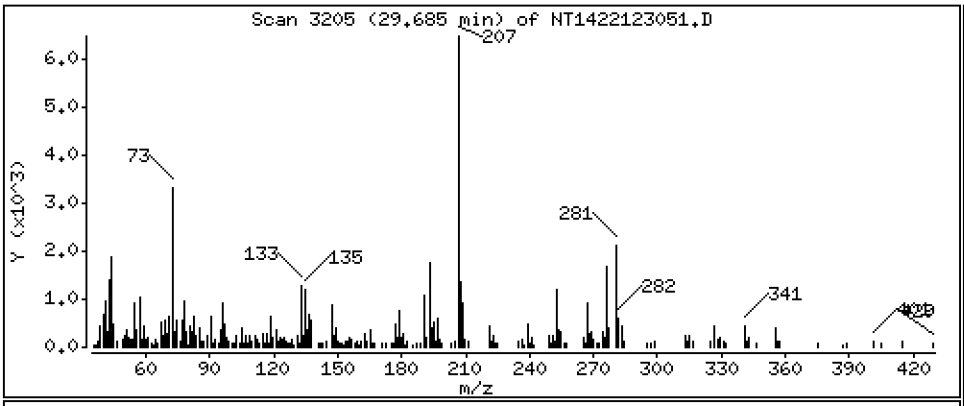
Operator: VTS

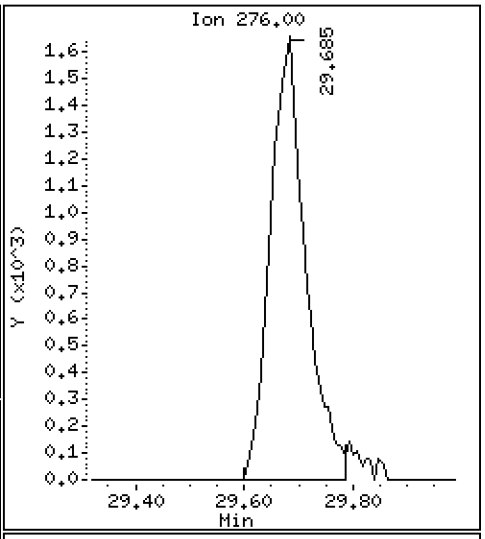
Column phase: ZB-5msi

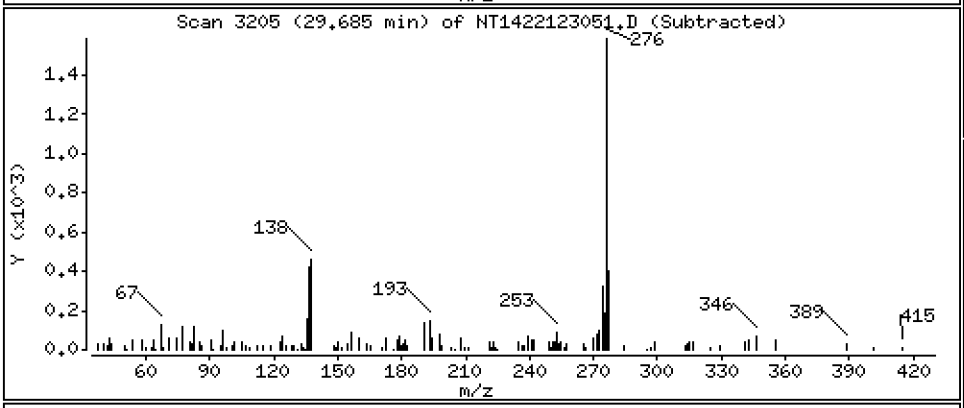
Column diameter: 0.25

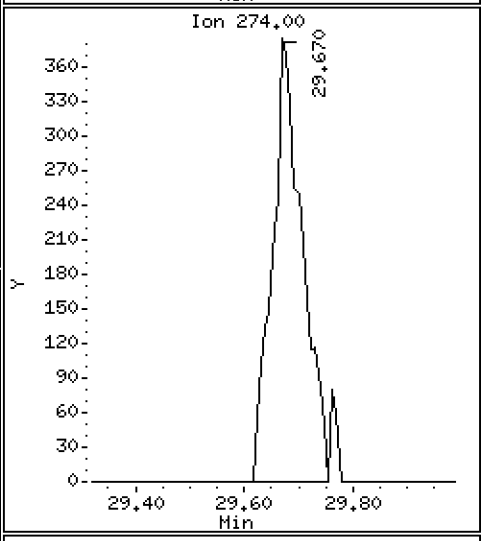
80 Benzo(g,h,i)perylene

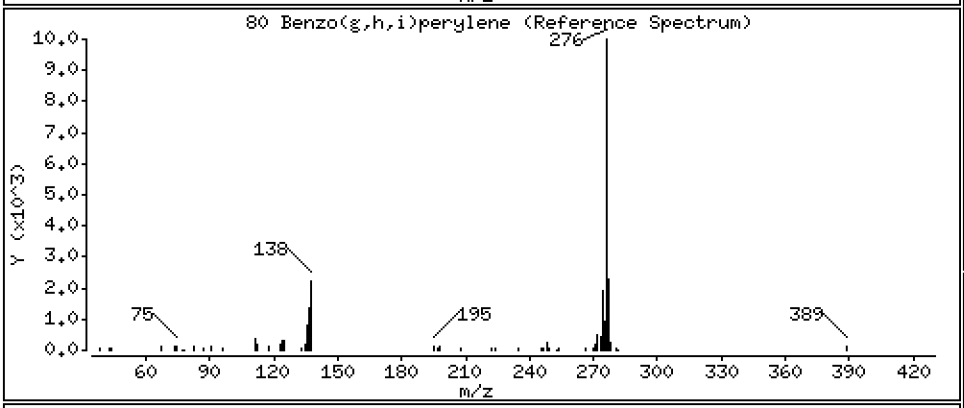
Concentration: 0.1229 ug/mL

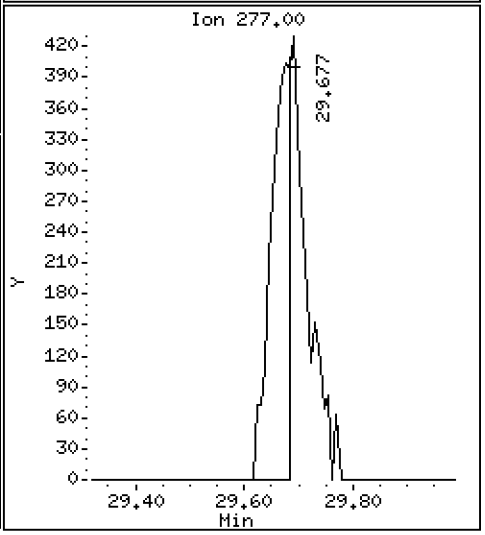


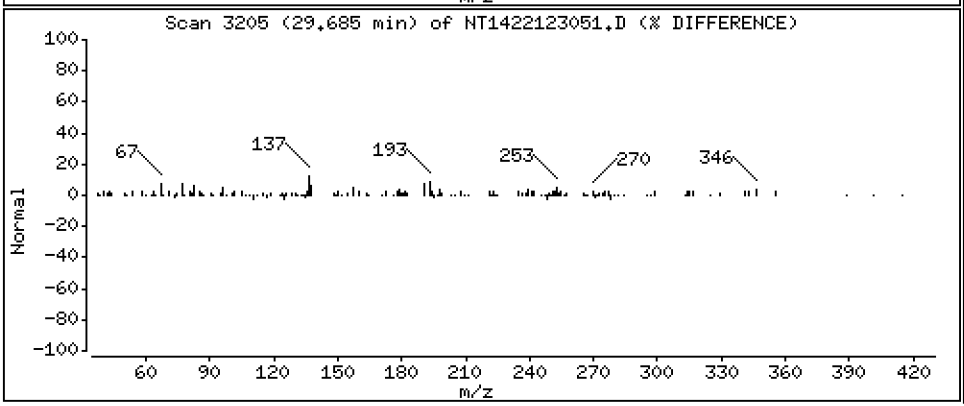












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

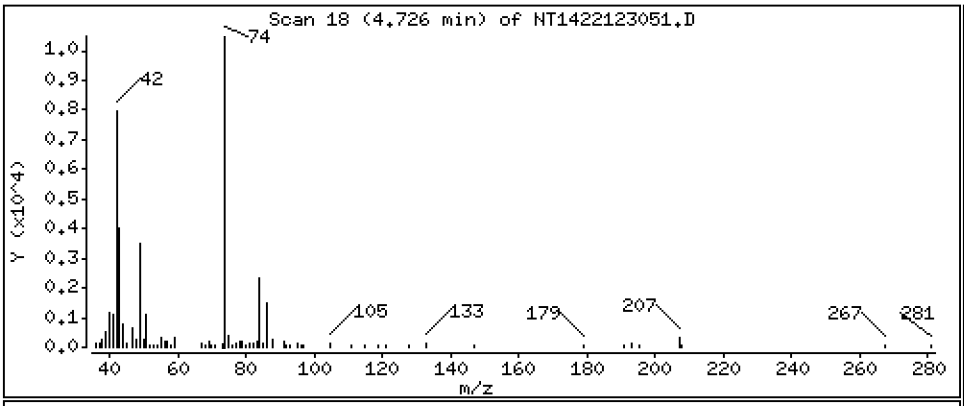
Operator: VTS

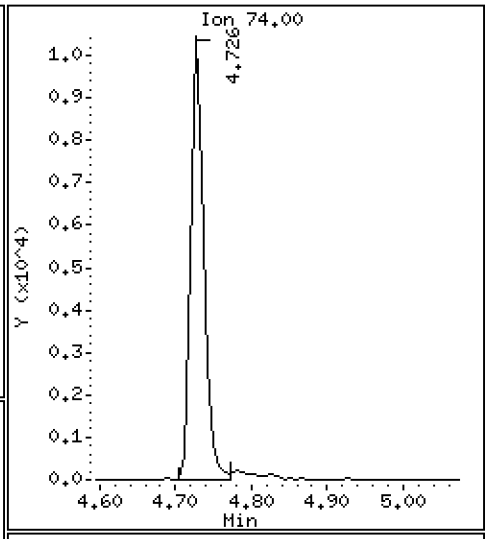
Column phase: ZB-5msi

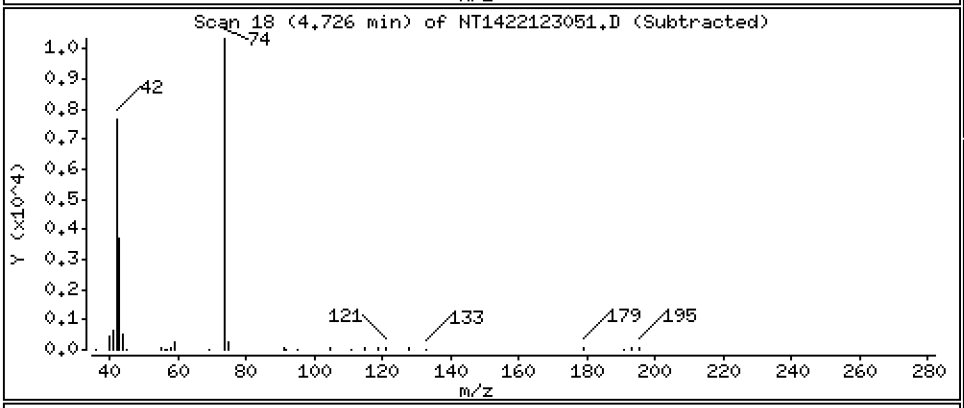
Column diameter: 0.25

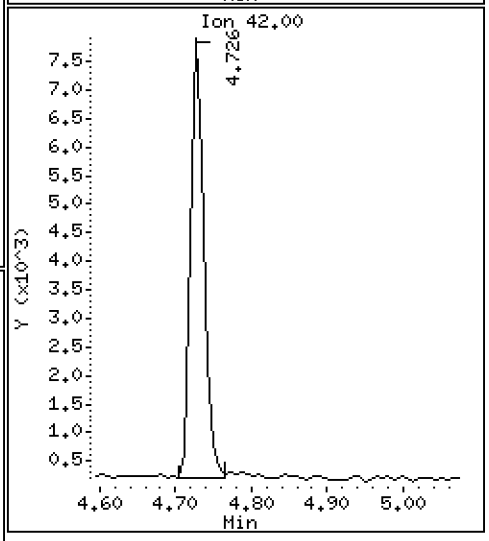
90 N-Nitrosodimethylamine

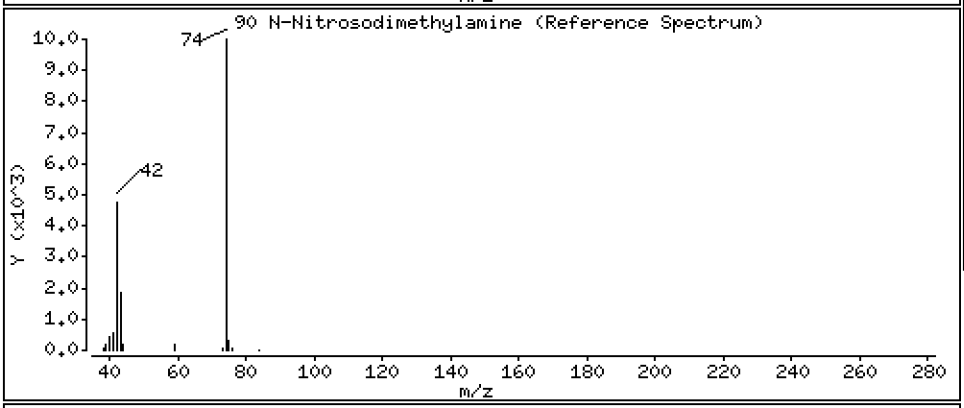
Concentration: 0.4965 ug/mL

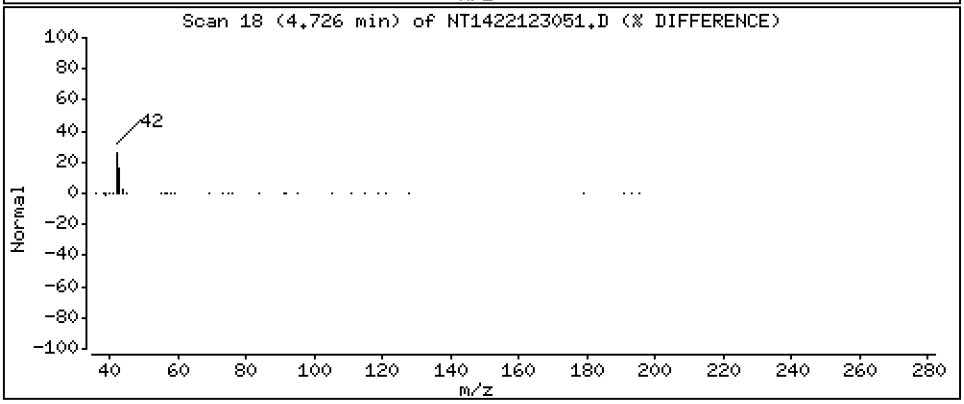












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

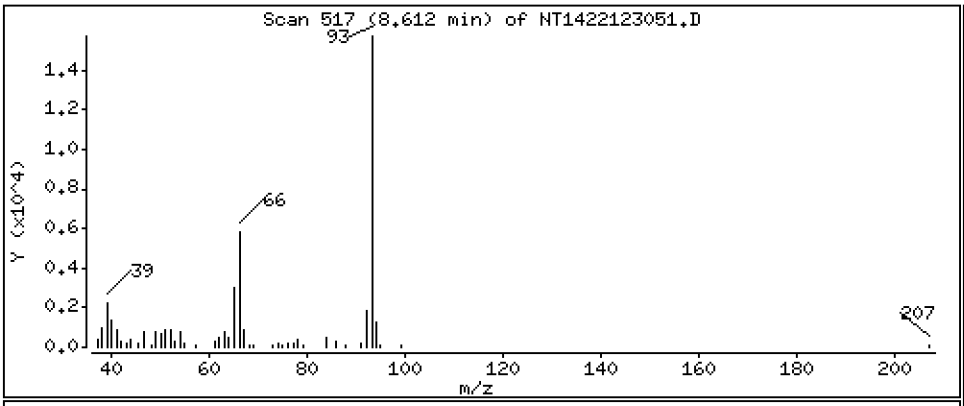
Operator: VTS

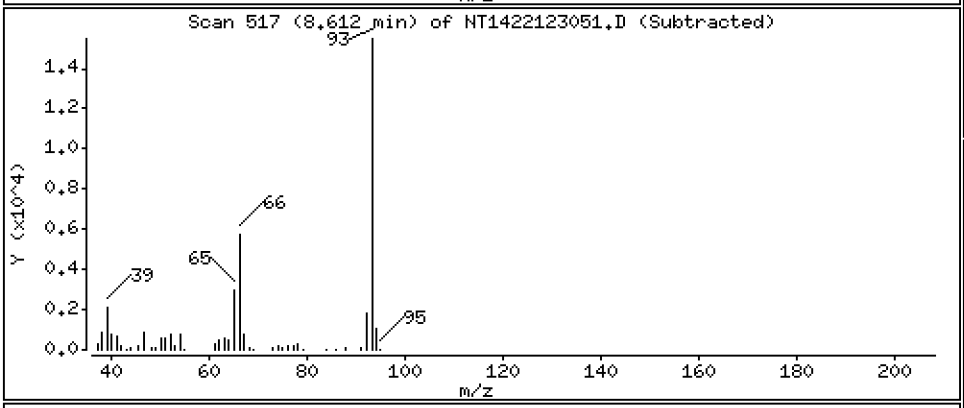
Column phase: ZB-5msi

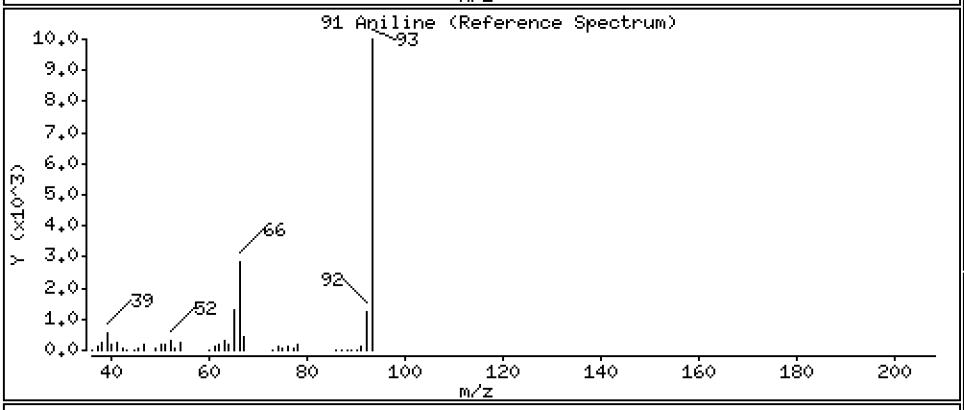
Column diameter: 0.25

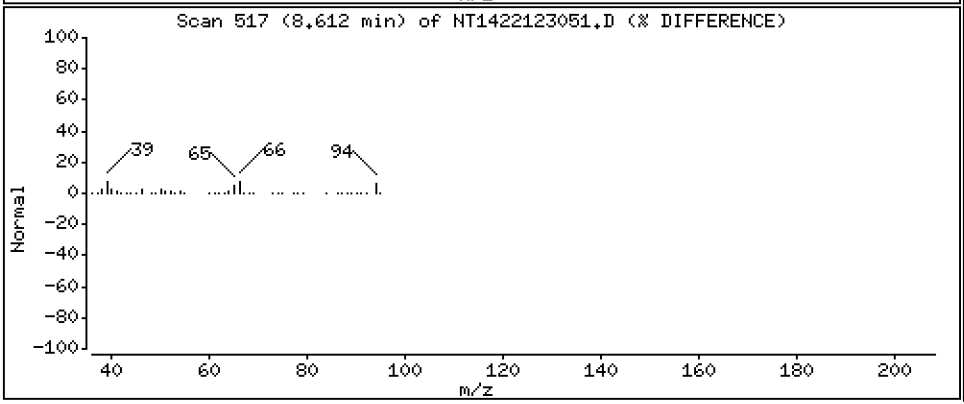
91 Aniline

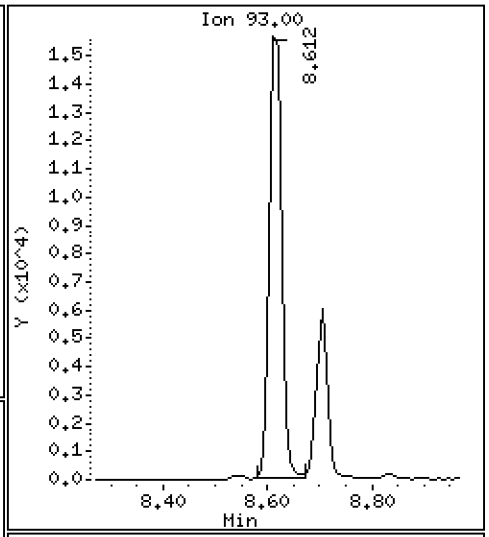
Concentration: 0.4714 ug/mL

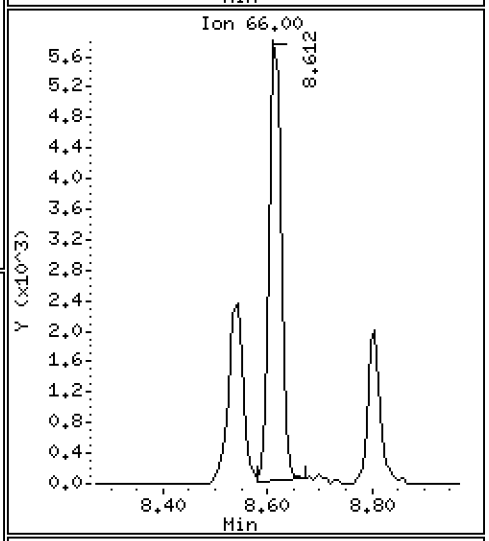


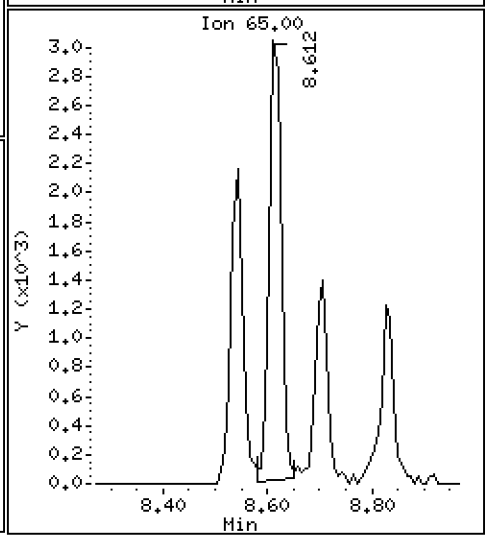












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

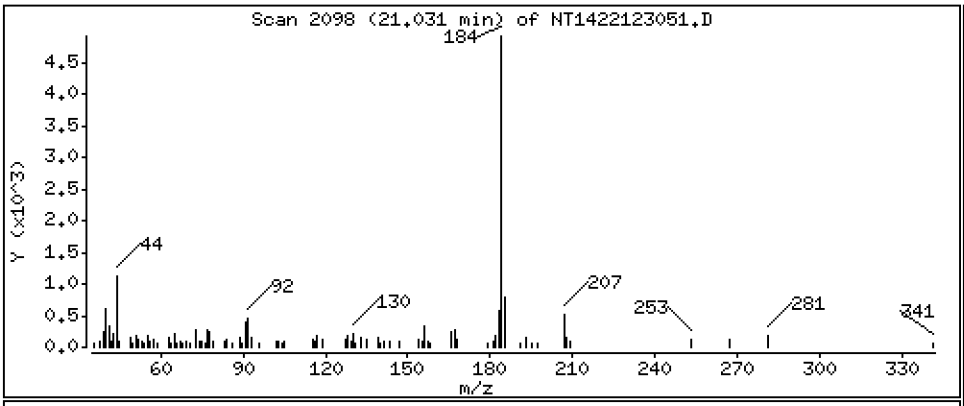
Operator: VTS

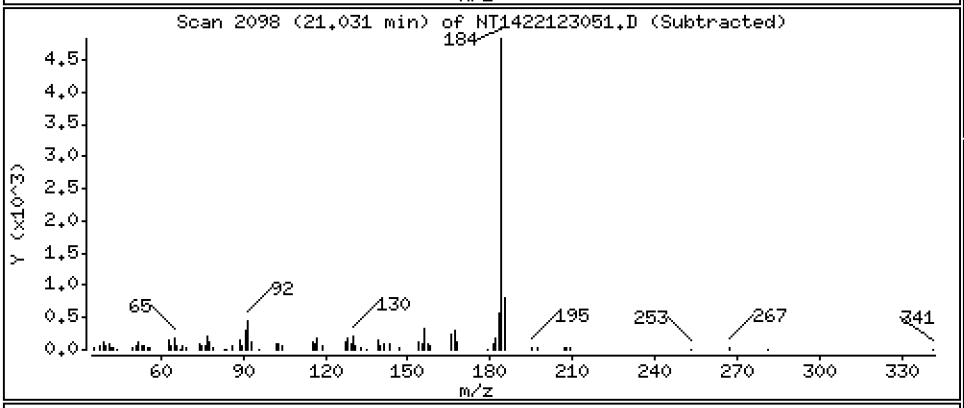
Column phase: ZB-5msi

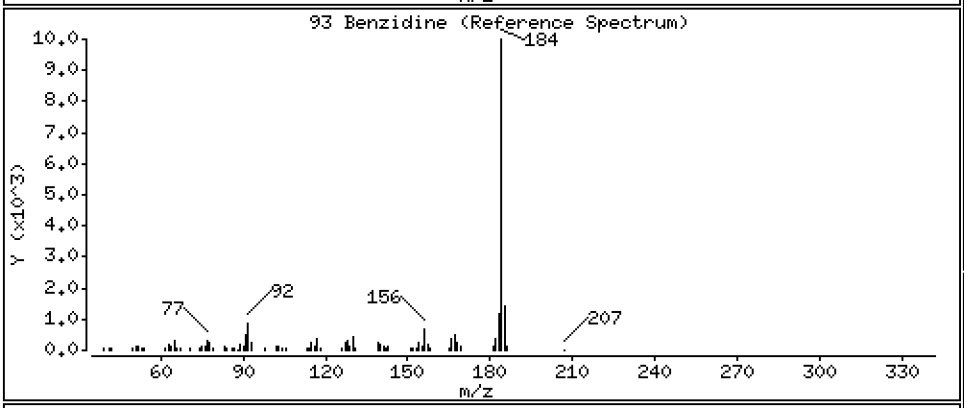
Column diameter: 0.25

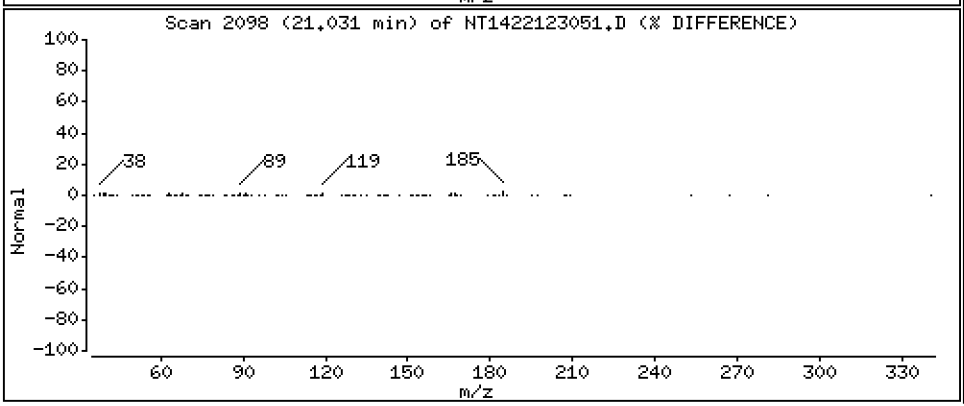
93 Benzidine

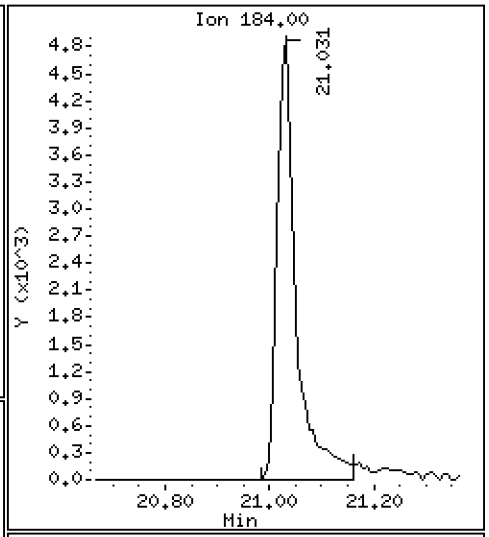
Concentration: 0.3471 ug/mL

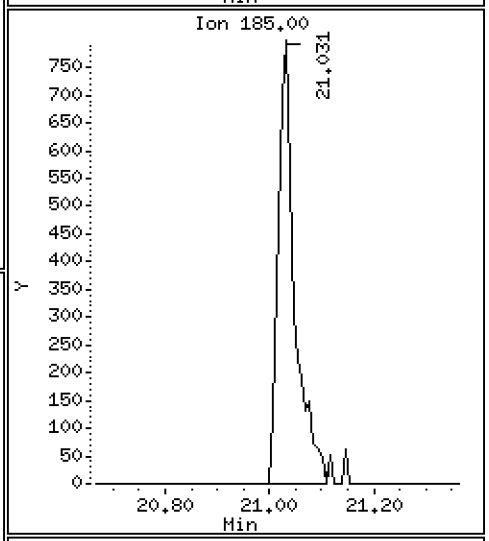


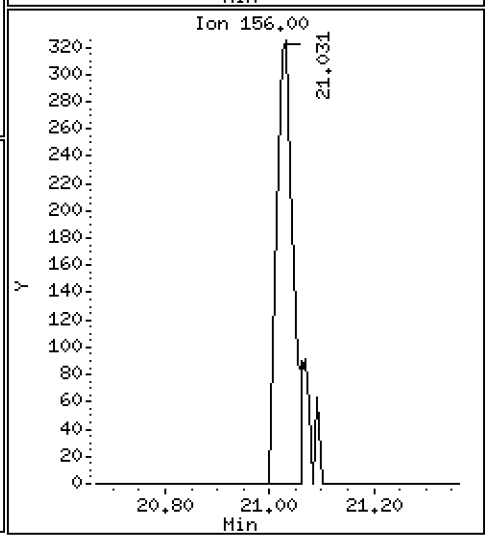












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

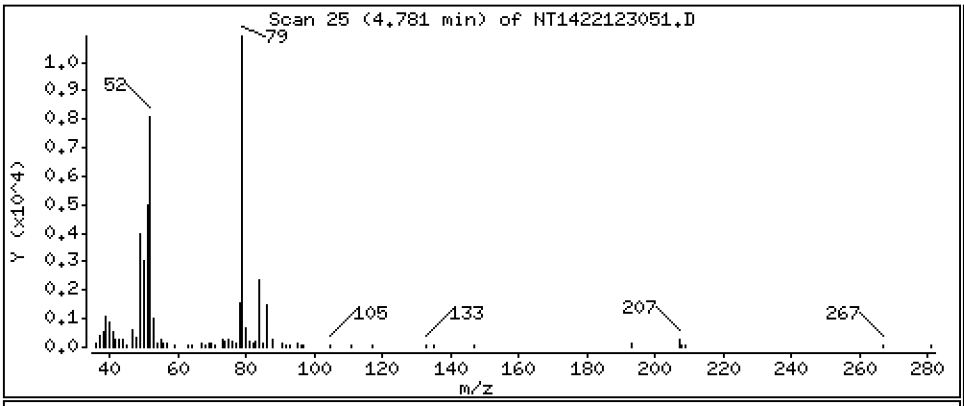
Operator: VTS

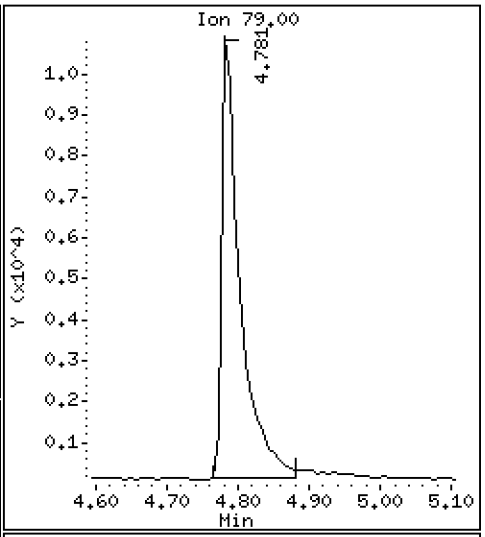
Column phase: ZB-5msi

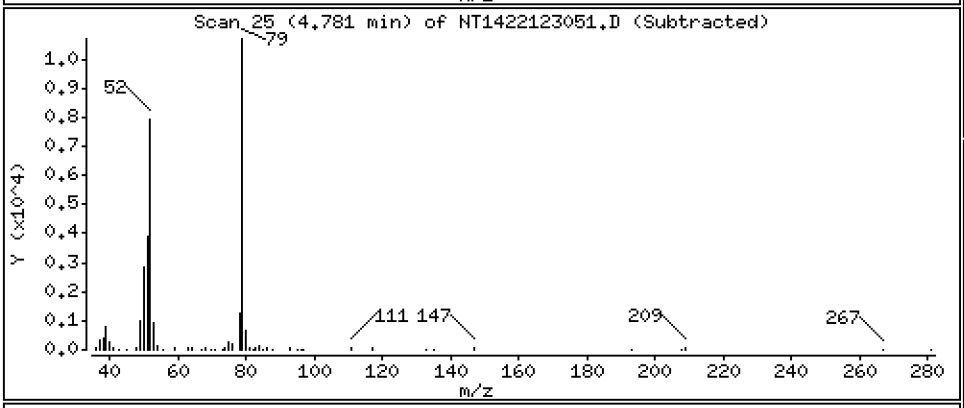
Column diameter: 0.25

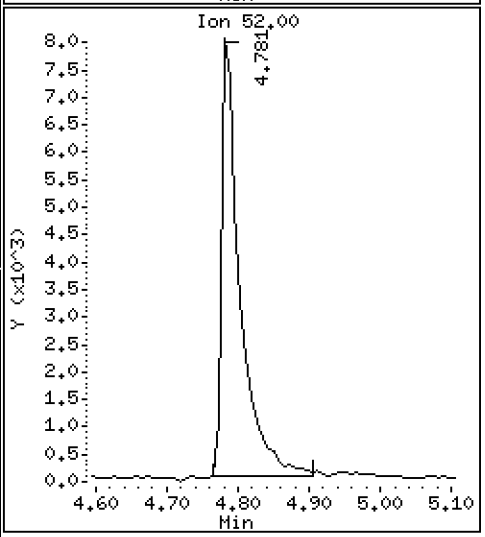
103 Pyridine

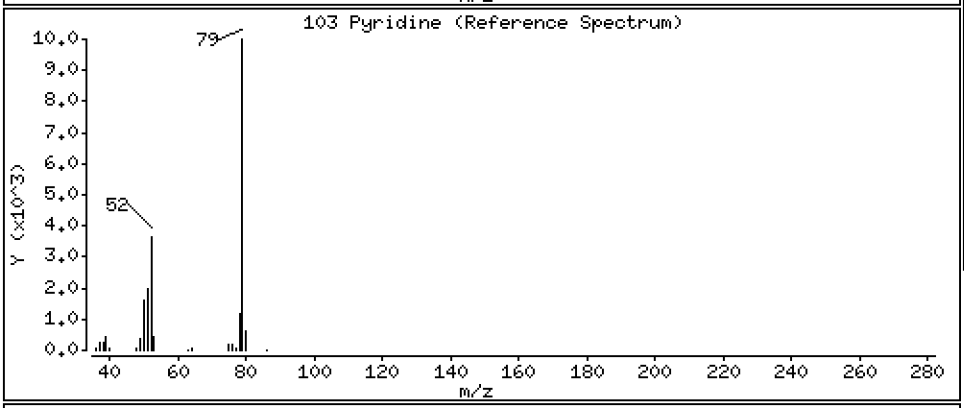
Concentration: 0.2428 ug/mL

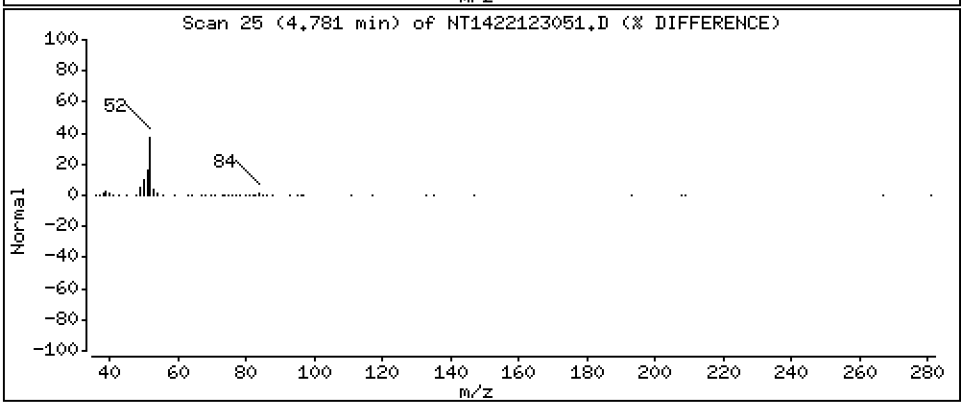












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

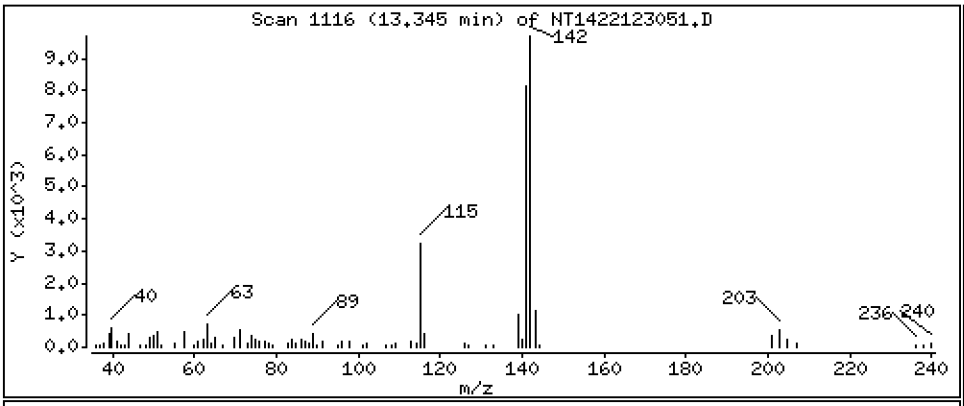
Operator: VTS

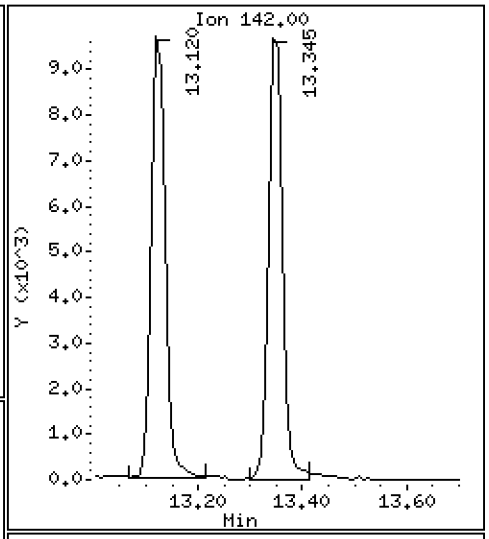
Column phase: ZB-5msi

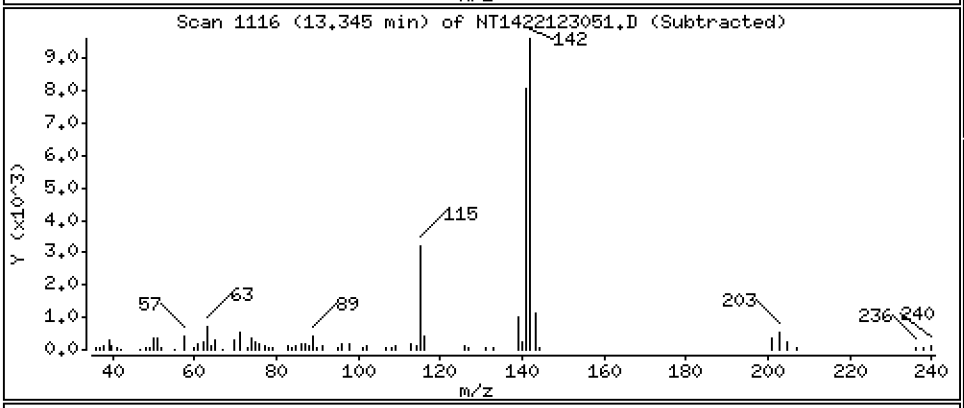
Column diameter: 0.25

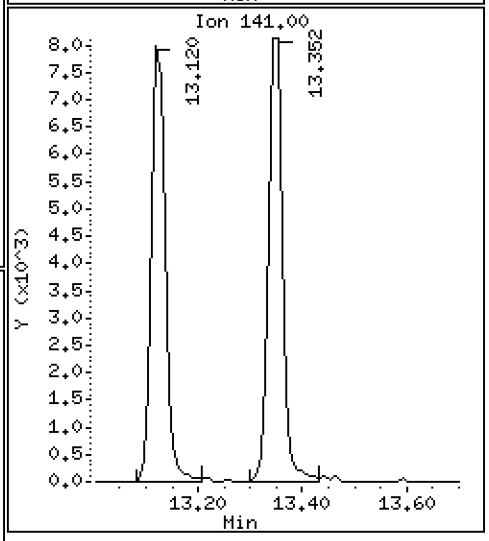
105 1-methylnaphthalene

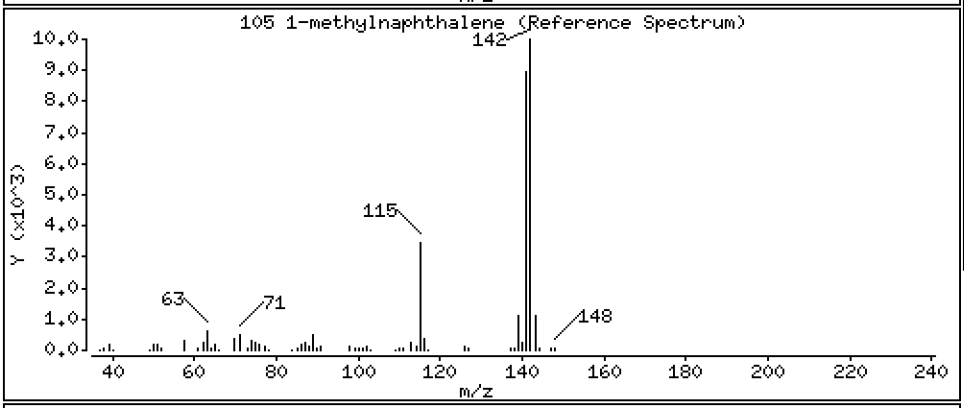
Concentration: 0.2317 ug/mL

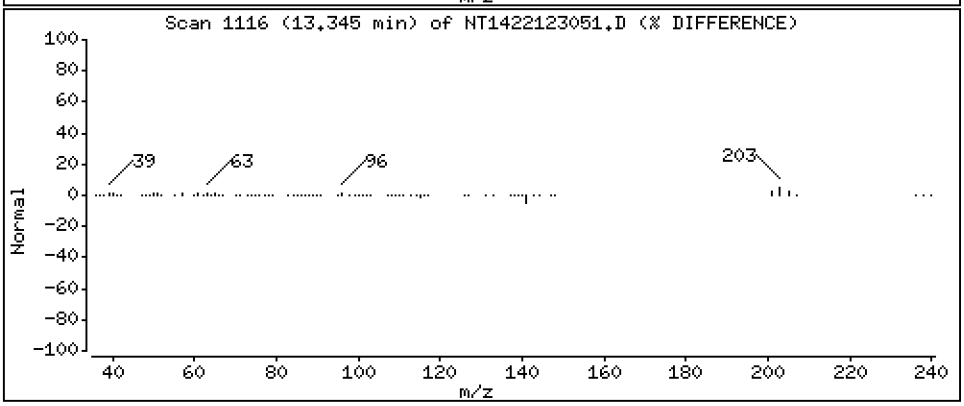












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

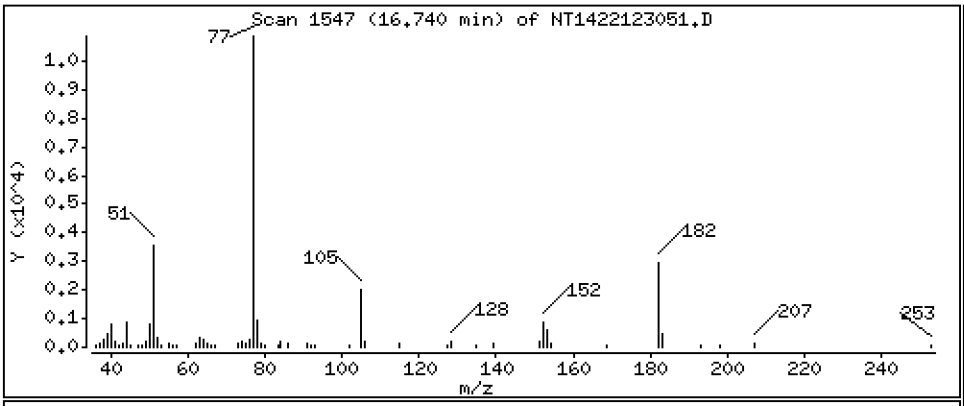
Operator: VTS

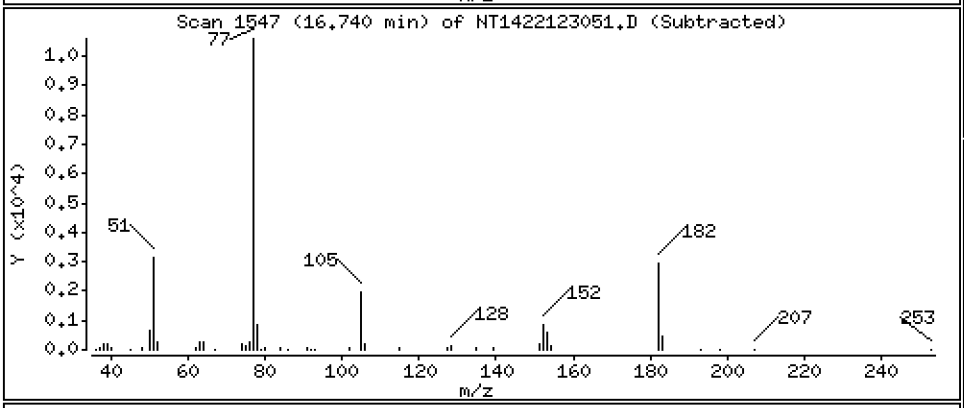
Column phase: ZB-5msi

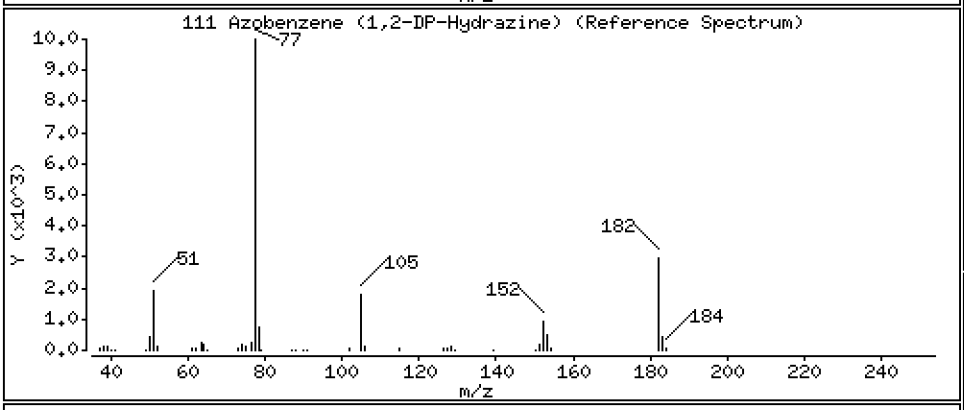
Column diameter: 0.25

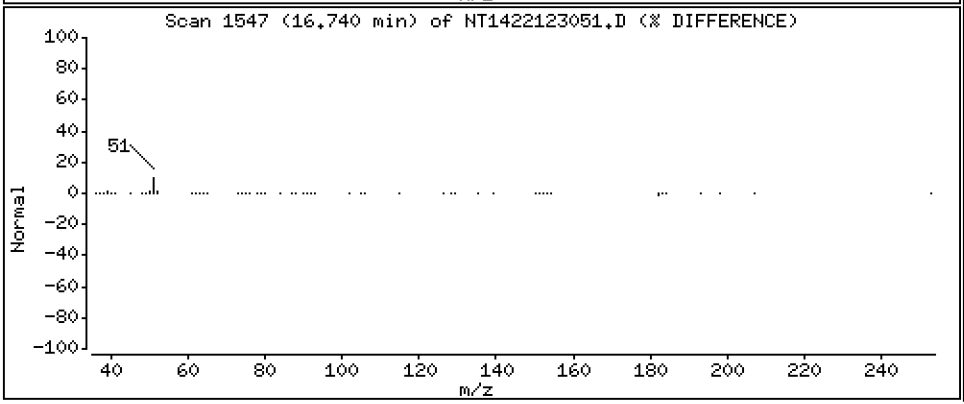
111 Azobenzene (1,2-DP-Hydrazine)

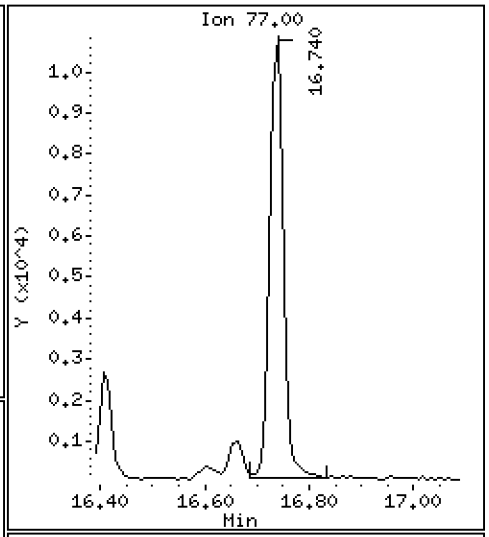
Concentration: 0.2322 ug/mL

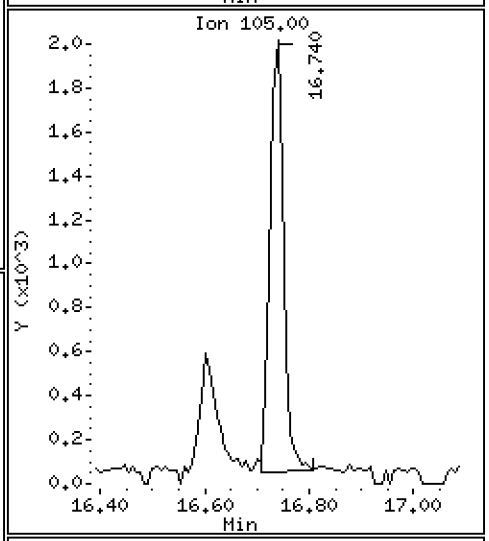


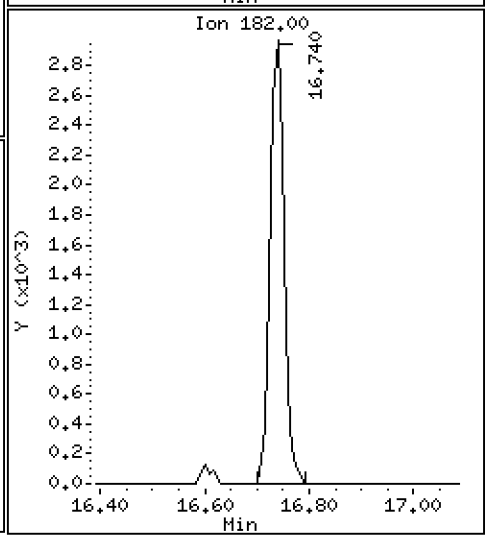












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

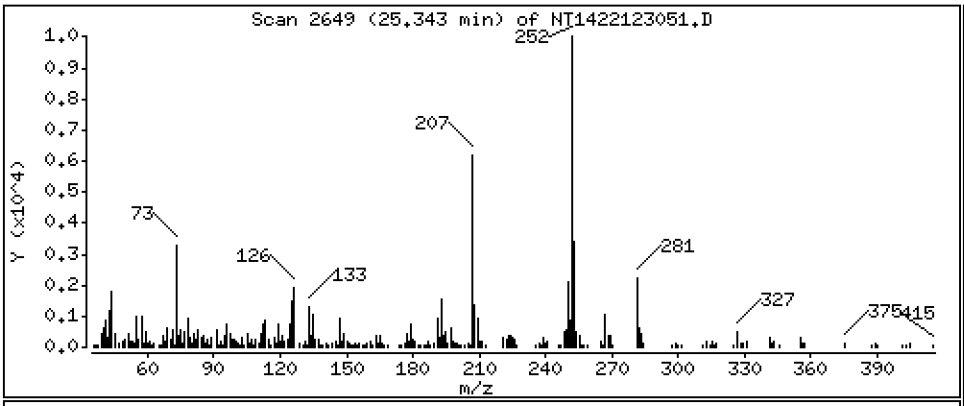
Operator: VTS

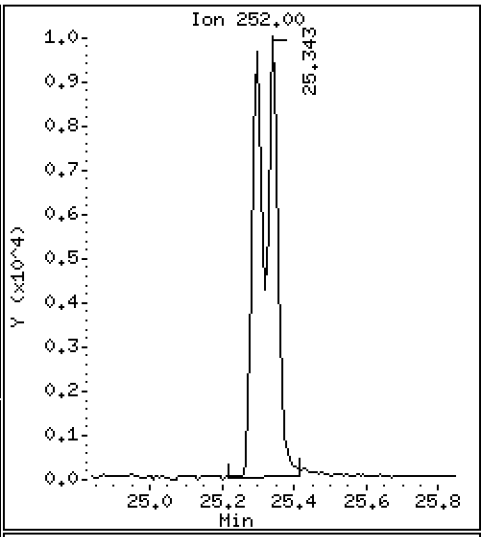
Column phase: ZB-5msi

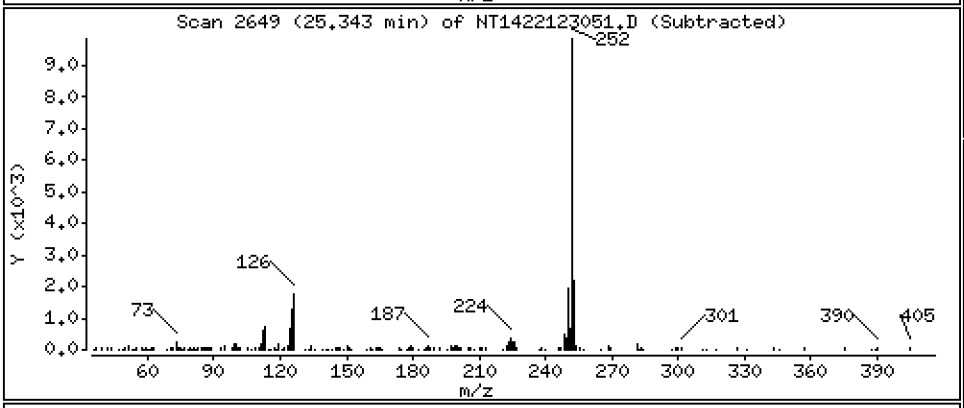
Column diameter: 0.25

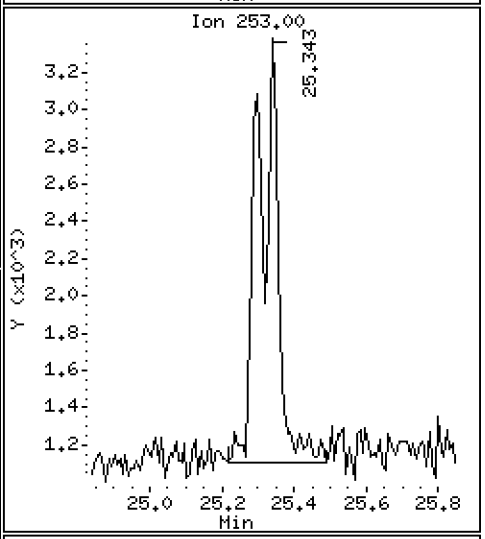
187 Total Benzofluoranthenes

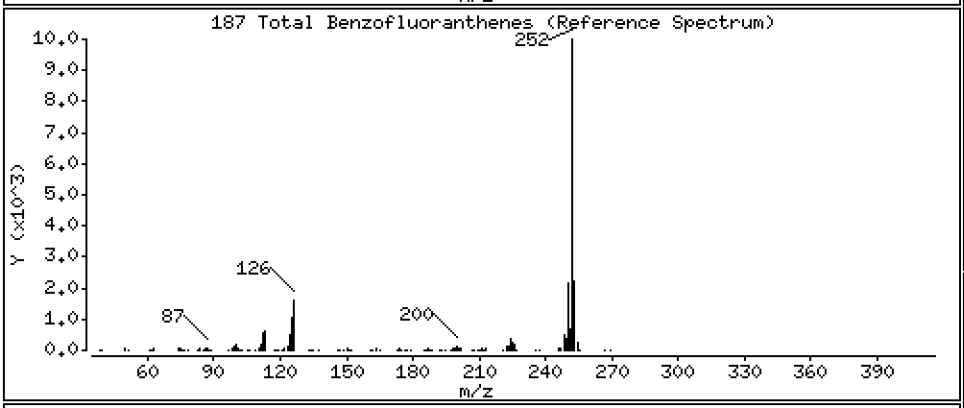
Concentration: 0.5087 ug/mL

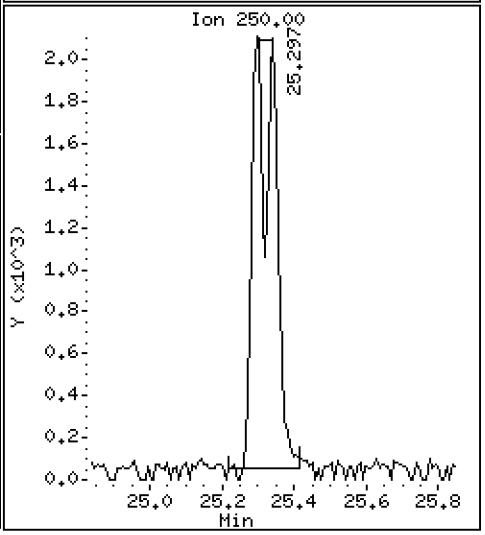


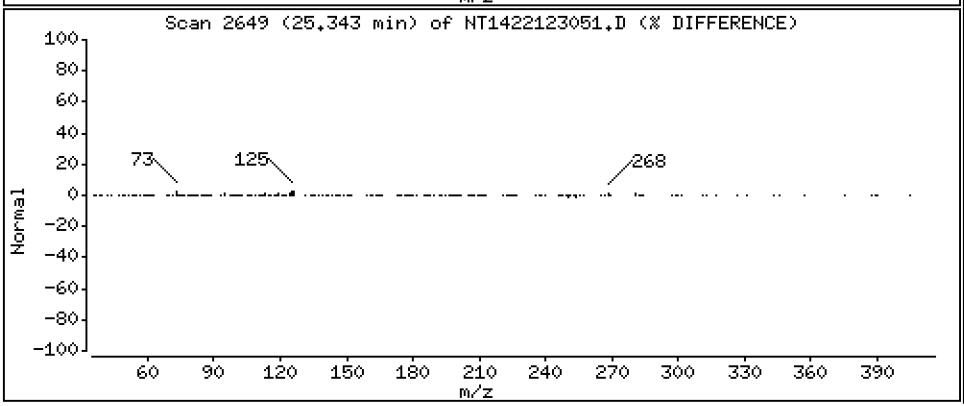












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

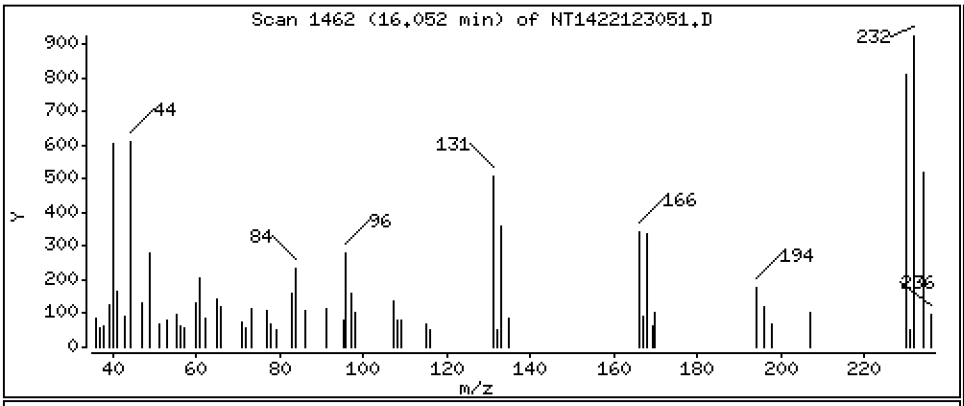
Operator: VTS

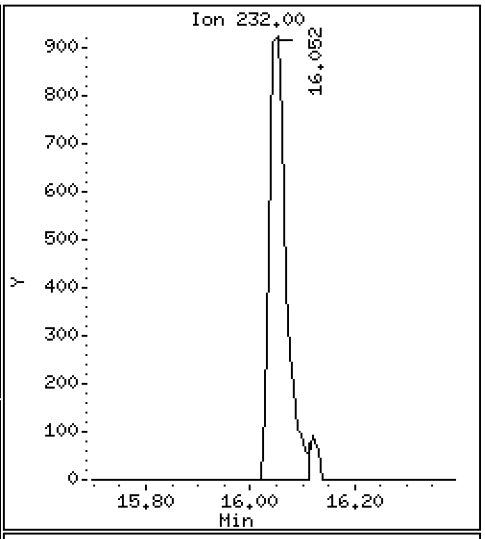
Column phase: ZB-5msi

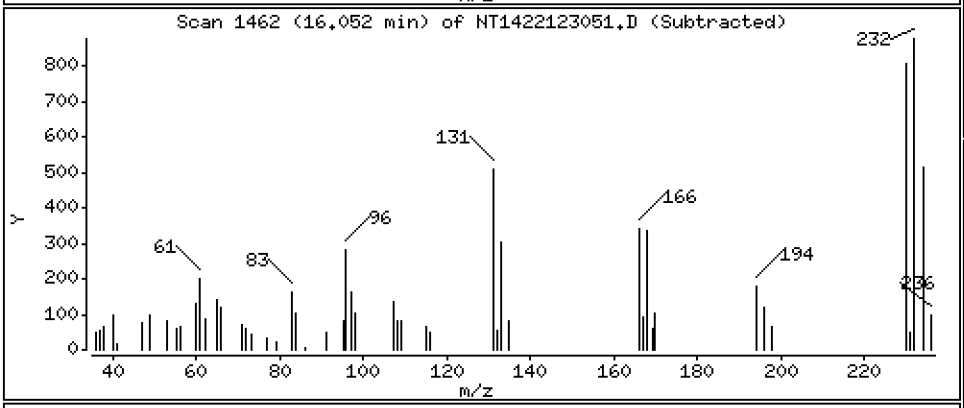
Column diameter: 0.25

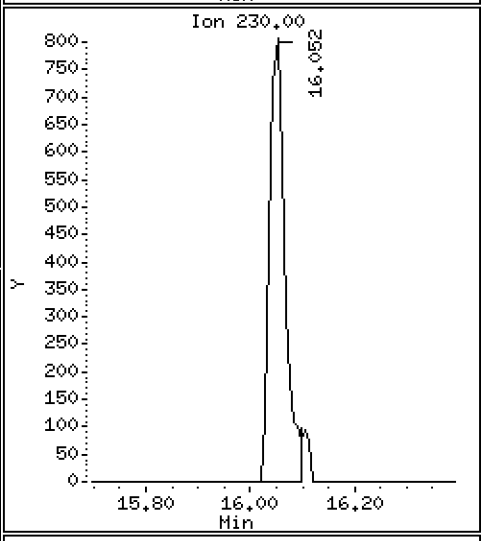
120 2,3,4,6-Tetrachlorophenol

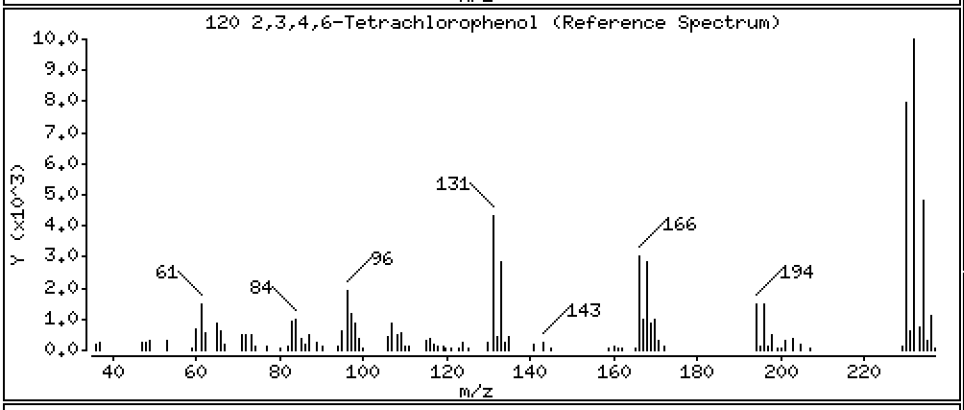
Concentration: 0.1326 ug/mL

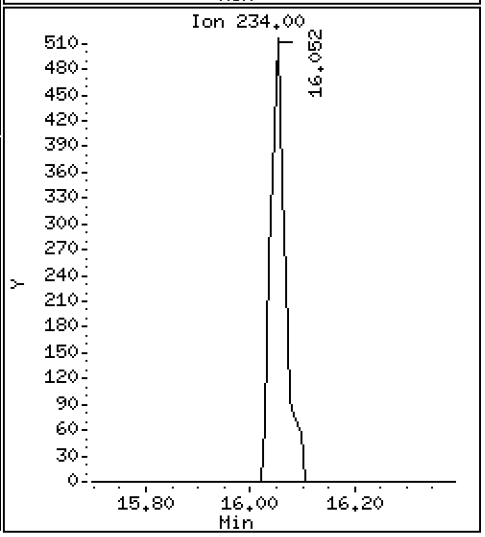


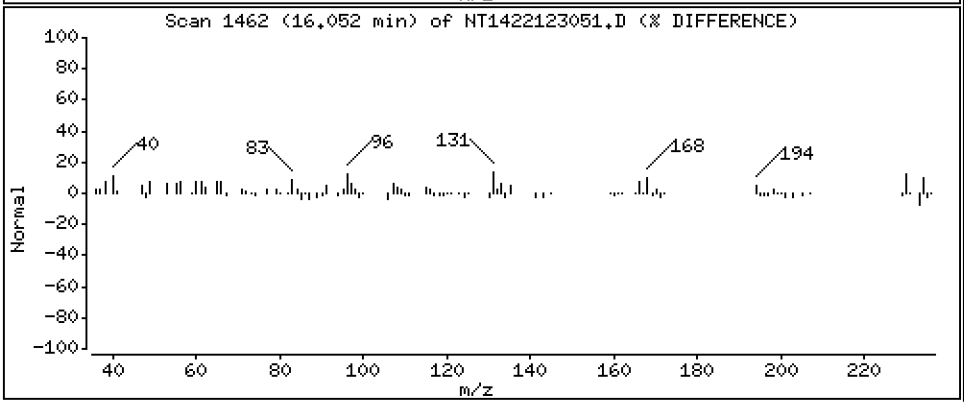












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Lab Smp Id: SKL0355-LCV1
Inj Date : 31-DEC-2022 14:29 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-LCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230B.b\ABN.m
Meth Date : 04-Jan-2023 08:43 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.927	6.927	(0.756)	12842	0.34438	0.3444
$	2 Phenol-d5	99	8.519	8.519	(0.929)	14155	0.30716	0.3072
	3 Phenol	94	8.542	8.542	(0.932)	12014	0.22943	0.2294
$	5 2-Chlorophenol-d4	132	8.804	8.804	(0.960)	12856	0.33217	0.3322
	4 Bis(2-Chloroethyl)ether	93	8.704	8.704	(0.949)	8623	0.23905	0.2390
	6 2-Chlorophenol	128	8.835	8.835	(0.964)	10012	0.23554	0.2355
	7 1,3-Dichlorobenzene	146	9.106	9.106	(0.993)	11073	0.24567	0.2457
*	8 1,4-Dichlorobenzene-d4	152	9.168	9.168	(1.000)	116397	4.00000	
	9 1,4-Dichlorobenzene	146	9.199	9.199	(1.003)	10619	0.24869	0.2487
$	10 1,2-Dichlorobenzene-d4	152	9.533	9.533	(1.040)	6376	0.24103	0.2410
	12 1,2-Dichlorobenzene	146	9.556	9.564	(1.042)	10186	0.24324	0.2432
	11 Benzyl alcohol	108	9.440	9.440	(1.030)	3783	0.16228	0.1623
	14 2,2'-oxybis(1-Chloropropane)	121	9.742	9.743	(1.063)	2715	0.22362	0.2236(M)
	13 2-Methylphenol	108	9.665	9.665	(1.054)	8908	0.23411	0.2341
	17 Hexachloroethane	117	10.162	10.162	(1.108)	2756	0.17549	0.1755
	16 N-Nitroso-di-n-propylamine	70	9.999	9.999	(1.091)	5117	0.22076	0.2208
	15 4-Methylphenol	108	9.937	9.937	(1.084)	8513	0.21208	0.2121
$	18 Nitrobenzene-d5	82	10.270	10.270	(0.880)	7699	0.21407	0.2141
	19 Nitrobenzene	77	10.301	10.301	(0.882)	8051	0.22540	0.2254
	20 Isophorone	82	10.759	10.759	(0.922)	8947	0.19654	0.1965
	21 2-Nitrophenol	139	10.938	10.938	(0.937)	4423	0.20275	0.2028
	22 2,4-Dimethylphenol	107	10.992	10.992	(0.942)	16985	0.45562	0.4556
	23 Bis(2-Chloroethoxy)methane	93	11.186	11.186	(0.958)	8349	0.23576	0.2358
	24 Benzoic acid	105	11.139	11.201	(0.954)	3966	0.17478	0.1748(M)
	25 2,4-Dichlorophenol	162	11.403	11.403	(0.977)	12985	0.41323	0.4132
	26 1,2,4-Trichlorobenzene	180	11.588	11.589	(0.993)	8229	0.24219	0.2422
*	27 Naphthalene-d8	136	11.673	11.681	(1.000)	425902	4.00000	
	28 Naphthalene	128	11.720	11.720	(1.004)	24917	0.23773	0.2377
	29 4-Chloroaniline	127	11.843	11.843	(1.015)	17541	0.40581	0.4058
	30 Hexachlorobutadiene	225	12.083	12.083	(1.035)	3748	0.22233	0.2223
	31 4-Chloro-3-methylphenol	107	12.818	12.810	(1.098)	11891	0.40100	0.4010
	32 2-Methylnaphthalene	142	13.120	13.128	(1.124)	17149	0.22305	0.2231
	33 Hexachlorocyclopentadiene	237	13.600	13.592	(0.888)	352	0.02150	0.02150

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.754	13.747	(0.898)	6773	0.37464	0.3746
	35	2,4,5-Trichlorophenol	196	13.839	13.824	(0.904)	9005	0.43158	0.4316(M)
$	36	2-Fluorobiphenyl	172	13.909	13.909	(0.909)	16254	0.22319	0.2232
	37	2-Chloronaphthalene	162	14.126	14.126	(0.923)	14693	0.23716	0.2372
	38	2-Nitroaniline	65	14.381	14.373	(0.939)	6470	0.39723	0.3972
	39	Dimethylphthalate	163	14.807	14.807	(0.967)	13629	0.22312	0.2231
	40	Acenaphthylene	152	15.000	15.000	(0.980)	21309	0.22558	0.2256
	41	2,6-Dinitrotoluene	165	14.946	14.946	(0.976)	4846	0.35154	0.3515
*	42	Acenaphthene-d10	164	15.310	15.318	(1.000)	216598	4.00000	
	43	3-Nitroaniline	138	15.232	15.233	(0.995)	5647	0.33704	0.3370
	44	Acenaphthene	153	15.379	15.379	(1.005)	13777	0.23514	0.2351
	45	2,4-Dinitrophenol	184	15.472	15.441	(1.011)	62	0.00530	0.005296(M)
	46	Dibenzofuran	168	15.712	15.712	(1.026)	21128	0.24047	0.2405
	47	4-Nitrophenol	109	15.634	15.549	(1.021)	1904	0.23747	0.2375(M)
	48	2,4-Dinitrotoluene	165	15.758	15.758	(1.029)	5711	0.30195	0.3020
	50	Diethylphthalate	149	16.268	16.268	(1.063)	18907	0.22772	0.2277
	49	Fluorene	166	16.423	16.423	(1.073)	21251	0.22736	0.2274
	51	4-Chlorophenyl-phenylether	204	16.407	16.415	(1.072)	9783	0.21379	0.2138
	52	4-Nitroaniline	138	16.523	16.508	(1.079)	6307	0.31284	0.3128
	53	4,6-Dinitro-2-methylphenol	198	16.600	16.608	(0.904)	2946	0.20197	0.2020
	54	N-Nitrosodiphenylamine	169	16.662	16.662	(0.907)	14446	0.24221	0.2422
$	55	2,4,6-Tribromophenol	330	16.963	16.963	(1.108)	2148	0.21169	0.2117(M)
	56	4-Bromophenyl-phenylether	248	17.418	17.418	(0.949)	5136	0.22742	0.2274
	57	Hexachlorobenzene	284	17.742	17.742	(0.966)	5677	0.22906	0.2291
	58	Pentachlorophenol	266	18.114	18.098	(0.987)	823	0.07669	0.07669(M)
*	59	Phenanthrene-d10	188	18.361	18.369	(1.000)	347572	4.00000	
	60	Phenanthrene	178	18.408	18.415	(1.003)	21884	0.24149	0.2415
	61	Anthracene	178	18.508	18.508	(1.008)	18882	0.21826	0.2183
	62	Carbazole	167	18.841	18.833	(1.026)	18183	0.21741	0.2174
	63	Di-n-butylphthalate	149	19.622	19.622	(1.069)	17991	0.19057	0.1906
	64	Fluoranthene	202	20.798	20.798	(0.889)	21465	0.23077	0.2308
	65	Pyrene	202	21.224	21.224	(0.907)	21631	0.22118	0.2212
$	66	Terphenyl-d14	244	21.495	21.495	(0.918)	15087	0.21757	0.2176
	67	Butylbenzylphthalate	149	22.408	22.416	(0.957)	7672	0.20800	0.2080
	68	Benzo(a)anthracene	228	23.376	23.376	(0.999)	21137	0.24154	0.2415
*	69	Chrysene-d12	240	23.407	23.407	(1.000)	288877	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.330	23.330	(0.997)	18651	0.69622	0.6962
	71	Chrysene	228	23.446	23.454	(1.002)	19952	0.24137	0.2414
	72	bis(2-Ethylhexyl)phthalate	149	23.430	23.438	(0.959)	10512	0.21854	0.2185
*	134	Di-n-octylphthalate-d4	153	24.429	24.429	(1.000)	433122	4.00000	
	73	Di-n-octylphthalate	149	24.437	24.437	(1.000)	25154	0.24194	0.2419
	74	Benzo(b)fluoranthene	252	25.296	25.304	(0.969)	19147	0.24594	0.2459
	75	Benzo(k)fluoranthene	252	25.343	25.343	(0.971)	20195	0.25486	0.2549
	76	Benzo(a)pyrene	252	25.978	25.978	(0.996)	15635	0.24158	0.2416
*	77	Perylene-d12	264	26.094	26.094	(1.000)	247727	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.861	28.854	(1.106)	10497	0.14268	0.1427
	79	Dibenzo(a,h)anthracene	278	28.869	28.861	(1.106)	9359	0.14970	0.1497
	80	Benzo(g,h,i)perylene	276	29.685	29.669	(1.138)	7577	0.12294	0.1229
	90	N-Nitrosodimethylamine	74	4.726	4.726	(0.516)	12751	0.49649	0.4965
	91	Aniline	93	8.611	8.619	(0.939)	24033	0.47136	0.4714
	93	Benzidine	184	21.030	21.015	(0.898)	12279	0.34708	0.3471
	103	Pyridine	79	4.780	4.757	(0.521)	19811	0.24276	0.2428
	105	1-methylnaphthalene	142	13.344	13.352	(1.143)	17117	0.23171	0.2317
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.739	16.739	(1.093)	18676	0.23219	0.2322

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.343	25.343	(0.971)	38292	0.50874	0.5087
120 2,3,4,6-Tetrachlorophenol	232	16.052	16.044	(1.048)	2022	0.13261	0.1326

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123051.D
Lab Smp Id: SKL0355-LCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230B.b\ABN.m
Misc Info:

Calibration Date: 31-DEC-2022
Calibration Time: 13:17
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	134439	67220	268878	116397	-13.42
27 Naphthalene-d8	492388	246194	984776	425902	-13.50
42 Acenaphthene-d10	270679	135340	541358	216598	-19.98
59 Phenanthrene-d10	429616	214808	859232	347572	-19.10
69 Chrysene-d12	376030	188015	752060	288877	-23.18
134 Di-n-octylphthala	634628	317314	1269256	433122	-31.75
77 Perylene-d12	336225	168113	672450	247727	-26.32

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.17	8.67	9.67	9.17	-0.00
27 Naphthalene-d8	11.68	11.18	12.18	11.67	-0.07
42 Acenaphthene-d10	15.32	14.82	15.82	15.31	-0.05
59 Phenanthrene-d10	18.37	17.87	18.87	18.36	-0.04
69 Chrysene-d12	23.41	22.91	23.91	23.41	-0.00
134 Di-n-octylphthala	24.43	23.93	24.93	24.43	-0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	-0.00

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

REVIEW SUMMARY FOR FILE - NT1422123051.D

Lab ID: SKL0355-LCV1
nt14.i, 20221230B.b\ABN.m,   31-DEC-2022 14:29

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.021	1.015	0.0061	4-Nitrophenol

RRT check based on Ccal File: NT1422123049.D

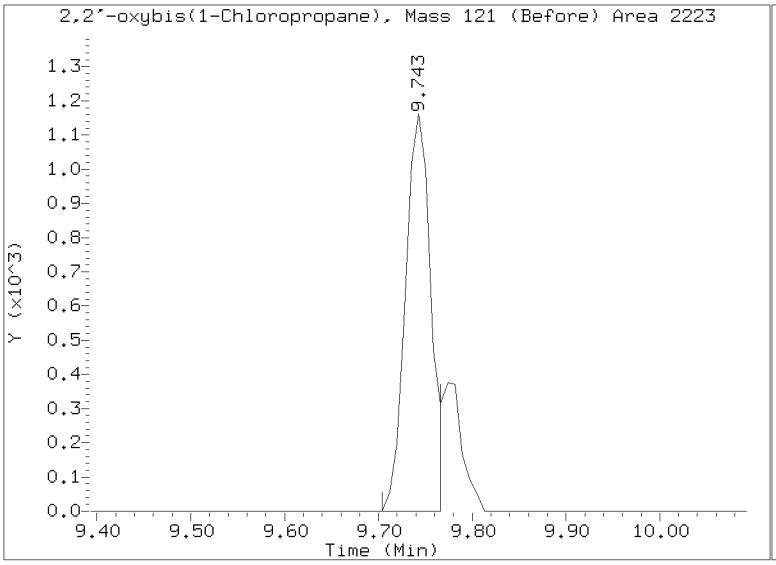
On Column LOD for nt14.i, 20221230B.b\ABN.m, ICAL.sub = 0.0000

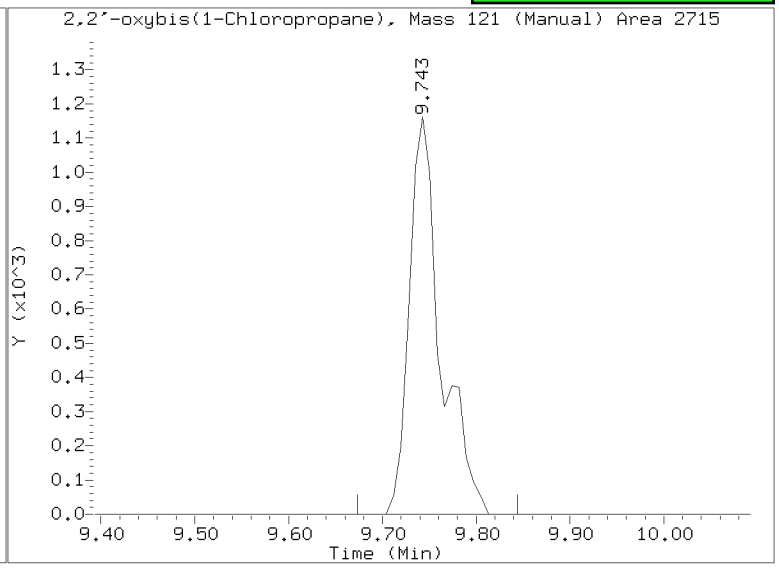
* Only compounds listed in the work order have been verified by the analyst *

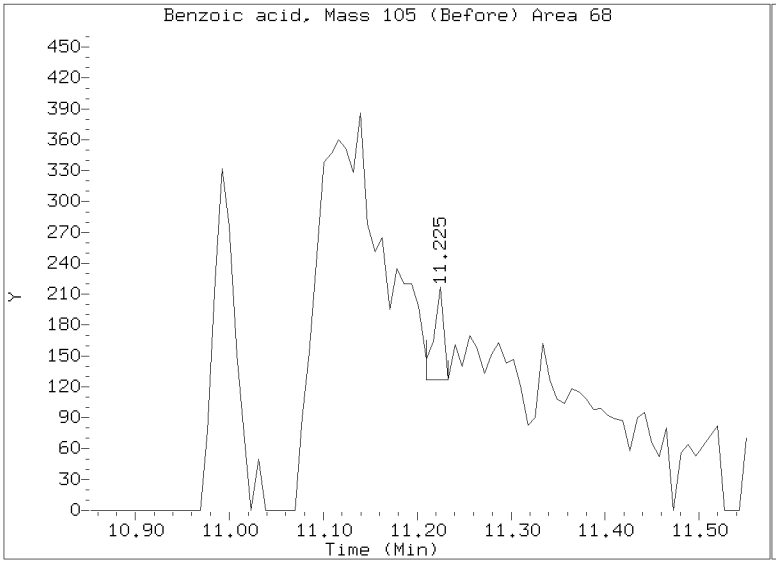
Quant Ion Manual Peak Adjustment Report

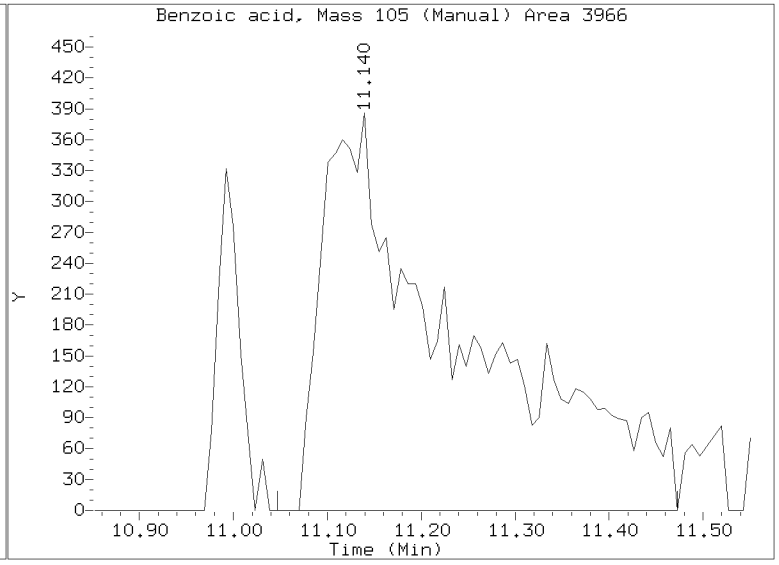
Datafile: //target/share/chem3/nt14.i/20221230B.b/NT1422123051.D
Injection Date: 31-DEC-2022 14:29
Lab ID:SKL0355-LCV1 Client ID:
Report Date: 01/04/2023 12:20

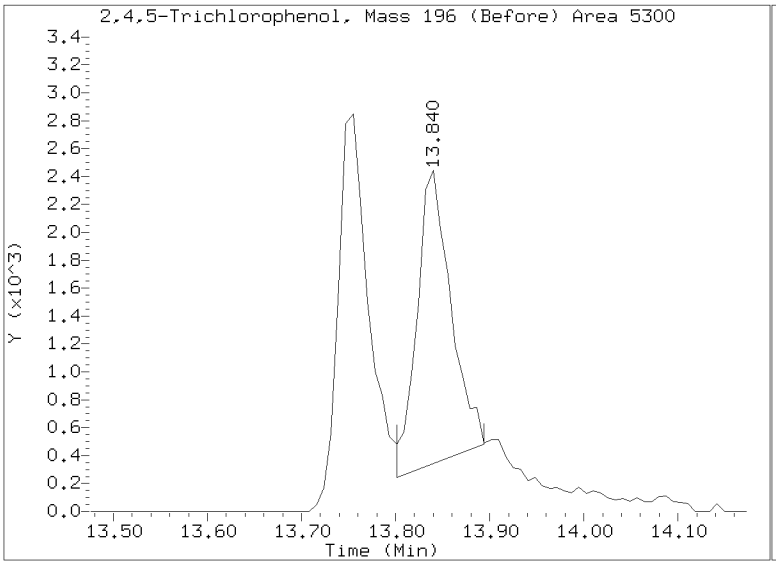
REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM

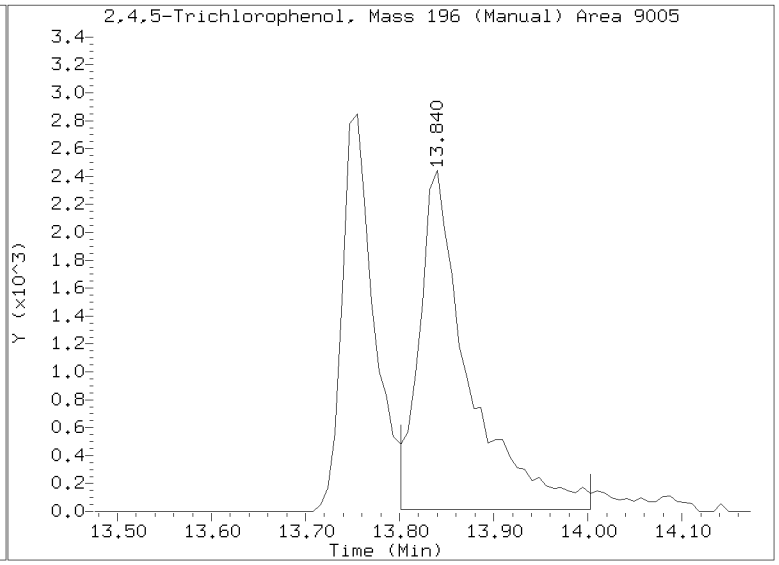








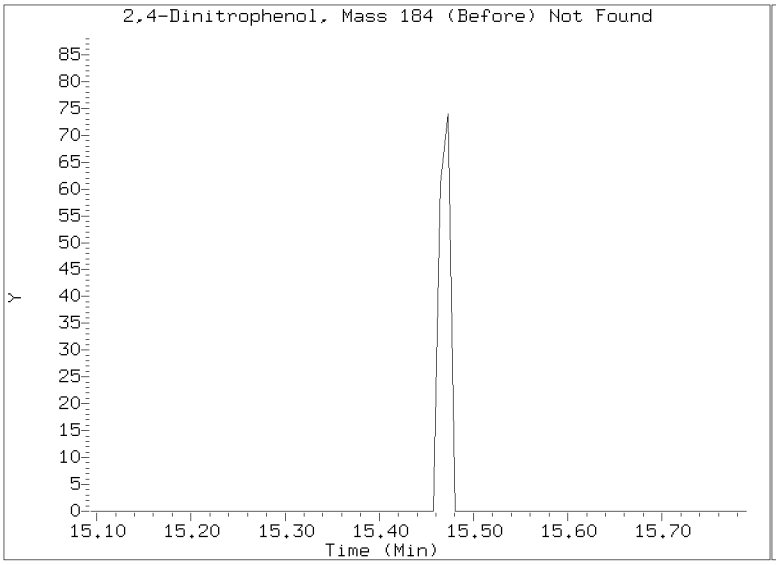


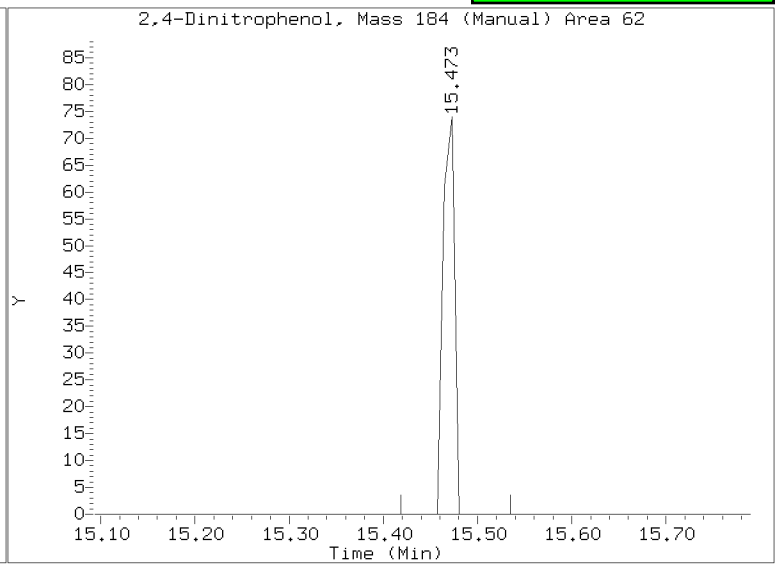


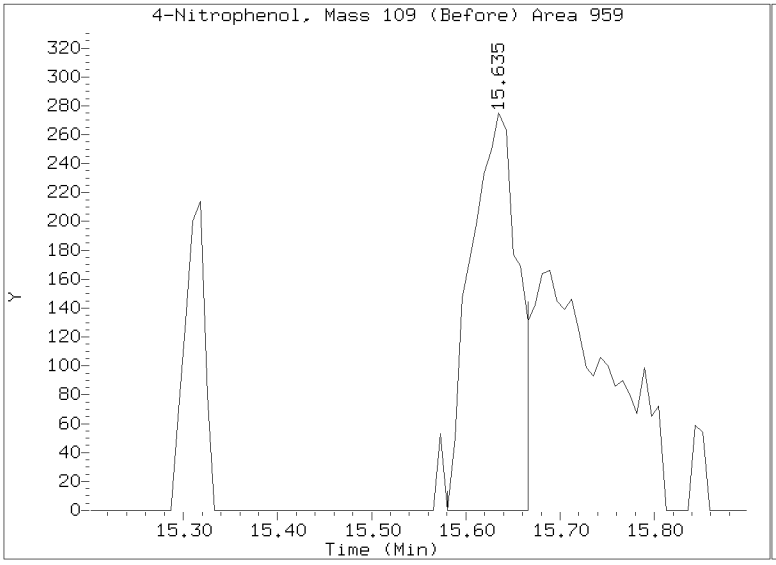
Quant Ion Manual Peak Adjustment Report

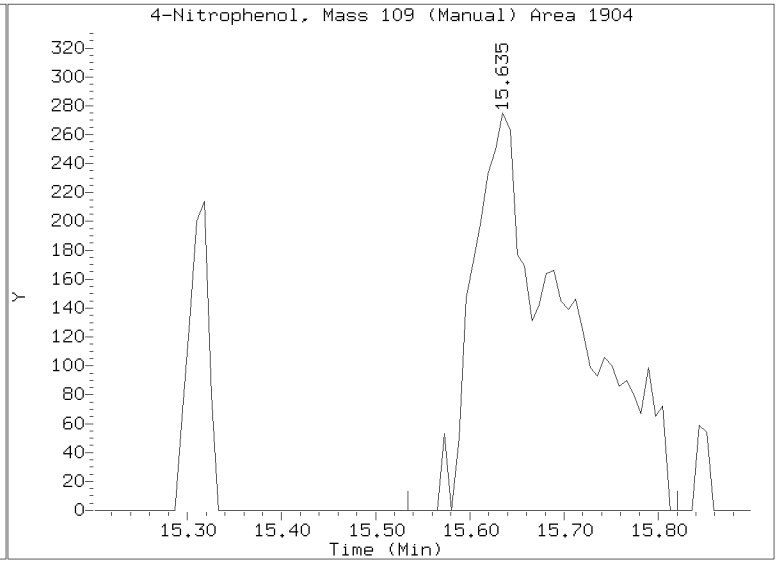
Datafile: //target/share/chem3/nt14.i/20221230B.b/NT1422123051.D
Injection Date: 31-DEC-2022 14:29
Lab ID:SKL0355-LCV1 Client ID:
Report Date: 01/04/2023 12:20

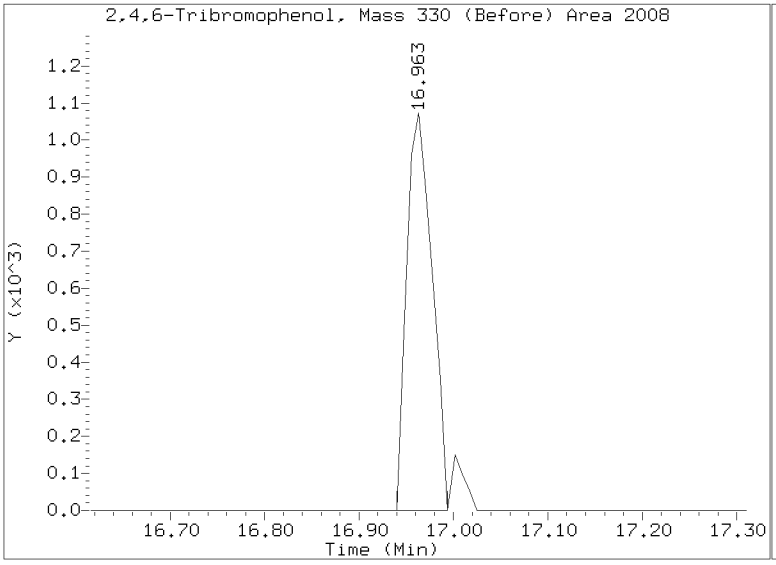
REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM

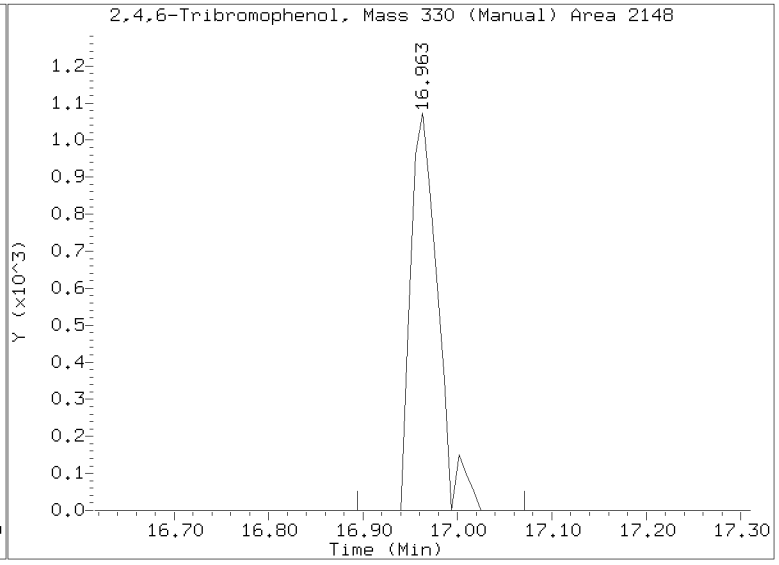








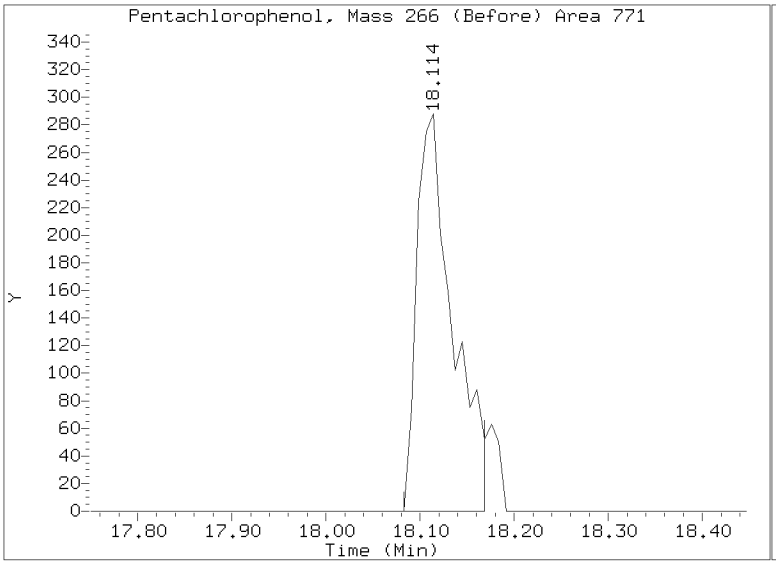


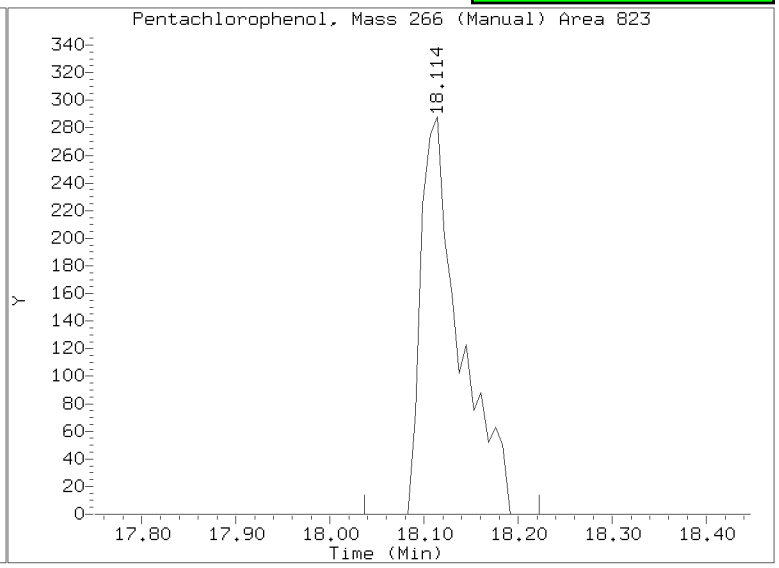


Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230B.b/NT1422123051.D
Injection Date: 31-DEC-2022 14:29
Lab ID:SKL0355-LCV1 Client ID:
Report Date: 01/04/2023 12:20

REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM





LOW-CONCENTRATION CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00066
Laboratory ID: SKL0355-LCV2
Sequence: SKL0355
Standard ID: K011106

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Phenol	0.50000	0.5	-3.7	50.00
bis(2-chloroethyl) ether	0.50000	0.5	-3.0	50.00
2-Chlorophenol	0.50000	0.5	1.1	50.00
1,3-Dichlorobenzene	0.50000	0.5	-1.0	50.00
1,4-Dichlorobenzene	0.50000	0.5	-1.5	50.00
1,2-Dichlorobenzene	0.50000	0.5	-3.2	50.00
Benzyl Alcohol	0.50000	0.4	-24.2	50.00
2,2'-Oxybis(1-chloropropane)	0.50000	0.5	-7.7	50.00
2-Methylphenol	0.50000	0.5	-3.3	50.00
Hexachloroethane	0.50000	0.4	-25.4	50.00
N-Nitroso-di-n-Propylamine	0.50000	0.5	-6.9	50.00
4-Methylphenol	0.50000	0.5	-5.1	50.00
Nitrobenzene	0.50000	0.5	-7.2	50.00
Isophorone	0.50000	0.4	-13.7	50.00
2-Nitrophenol	0.50000	0.5	-8.8	50.00
2,4-Dimethylphenol	1.0000	1.0	-1.2	50.00
Bis(2-Chloroethoxy)methane	0.50000	0.5	-3.2	50.00
2,4-Dichlorophenol	1.0000	1.0	-0.8	50.00
1,2,4-Trichlorobenzene	0.50000	0.5	-3.7	50.00
Naphthalene	0.50000	0.5	-3.1	50.00
Benzoic acid	2.0000	0.3	-83.5	50.00
4-Chloroaniline	1.0000	0.9	-13.0	50.00
Hexachlorobutadiene	0.50000	0.5	-5.8	50.00
4-Chloro-3-Methylphenol	1.0000	1.0	-4.8	50.00
2-Methylnaphthalene	0.50000	0.5	-6.5	50.00
Hexachlorocyclopentadiene	1.0000	0.1	-89.3	50.00
2,4,6-Trichlorophenol	1.0000	0.9	-11.0	50.00
2,4,5-Trichlorophenol	1.0000	0.9	-10.1	50.00
2-Chloronaphthalene	0.50000	0.5	-2.4	50.00

LOW-CONCENTRATION CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00066
Laboratory ID: SKL0355-LCV2
Sequence: SKL0355
Standard ID: K011106

2-Nitroaniline	1.0000	0.9	-8.0	50.00
Acenaphthylene	0.50000	0.5	6.4	50.00
Dimethylphthalate	0.50000	0.5	-6.9	50.00
2,6-Dinitrotoluene	1.0000	0.9	-14.9	50.00
Acenaphthene	0.50000	0.5	-0.7	50.00
3-Nitroaniline	1.0000	0.8	-20.0	50.00
2,4-Dinitrophenol	2.0000	0.1	-92.8	50.00
Dibenzofuran	0.50000	0.5	-1.5	50.00
4-Nitrophenol	1.0000	0.6	-35.2	50.00
2,4-Dinitrotoluene	1.0000	0.8	-22.1	50.00
Fluorene	0.50000	0.5	-3.3	50.00
4-Chlorophenylphenyl ether	0.50000	0.5	-8.3	50.00
Diethyl phthalate	0.50000	0.5	7.5	50.00
4-Nitroaniline	1.0000	0.8	-20.7	50.00
4,6-Dinitro-2-methylphenol	2.0000	0.8	-62.2	50.00
N-Nitrosodiphenylamine	0.50000	0.5	2.3	50.00
4-Bromophenyl phenyl ether	0.50000	0.5	-1.9	50.00
Hexachlorobenzene	0.50000	0.5	-2.0	50.00
Pentachlorophenol	1.0000	0.2	-77.5	50.00
Phenanthrene	0.50000	0.5	-2.3	50.00
Anthracene	0.50000	0.5	-6.3	50.00
Carbazole	0.50000	0.5	-7.8	50.00
Di-n-Butylphthalate	0.50000	0.4	-14.3	50.00
Fluoranthene	0.50000	0.5	-7.1	50.00
Pyrene	0.50000	0.5	-6.4	50.00
Butylbenzylphthalate	0.50000	0.4	-11.3	50.00
Benzo(a)anthracene	0.50000	0.5	-3.0	50.00
3,3'-Dichlorobenzidine	1.5000	1.5	-1.4	50.00
Chrysene	0.50000	0.5	-2.0	50.00
bis(2-Ethylhexyl)phthalate	0.50000	0.5	-5.9	50.00
Di-n-Octylphthalate	0.50000	0.5	-2.4	50.00

LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00066
Laboratory ID: SKL0355-LCV2
Sequence: SKL0355
Standard ID: K011106

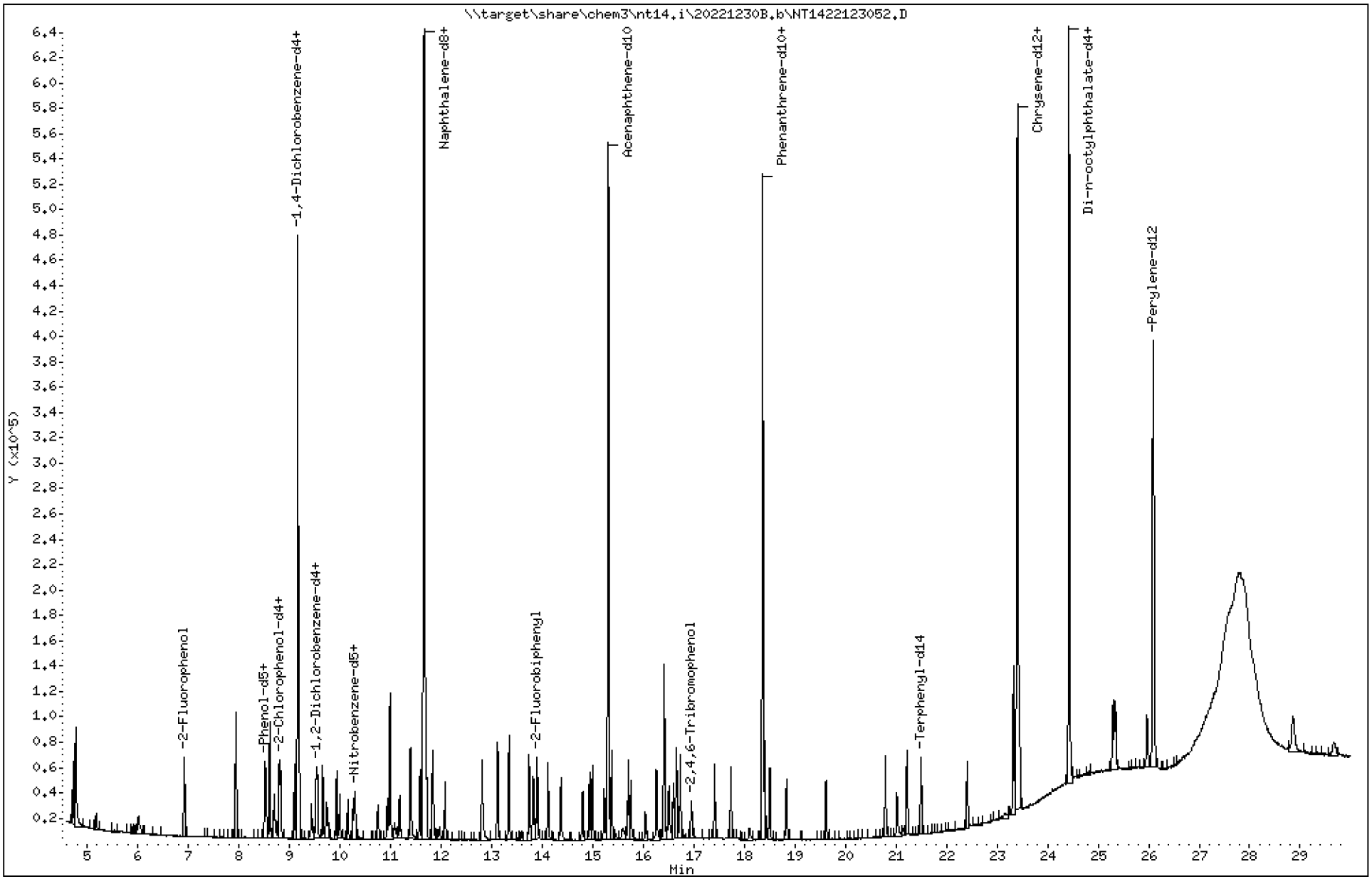
Benzofluoranthenes, Total	1.0000	1.0	2.2	50.00
Benzo(a)pyrene	0.50000	0.5	0.3	50.00
Indeno(1,2,3-cd)pyrene	0.50000	0.3	-35.3	50.00
Dibenzo(a,h)anthracene	0.50000	0.3	-34.1	50.00
Benzo(g,h,i)perylene	0.50000	0.3	-46.5	50.00
1-Methylnaphthalene	0.50000	0.5	-4.7	50.00
2-Fluorophenol	0.75000	0.711	-5.2	50.00
Phenol-d5	0.75000	0.658	-12.3	50.00
2-Chlorophenol-d4	0.75000	0.686	-8.5	50.00
1,2-Dichlorobenzene-d4	0.50000	0.471	-5.9	50.00
Nitrobenzene-d5	0.50000	0.460	-8.0	50.00
2-Fluorobiphenyl	0.50000	0.474	-5.1	50.00
2,4,6-Tribromophenol	0.75000	0.536	-28.6	50.00
p-Terphenyl-d14	0.50000	0.454	-9.2	50.00

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123052.D
Date : 31-DEC-2022 15:05
Client ID:
Sample Info: SKL0356-LCV2

Instrument: nt14.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

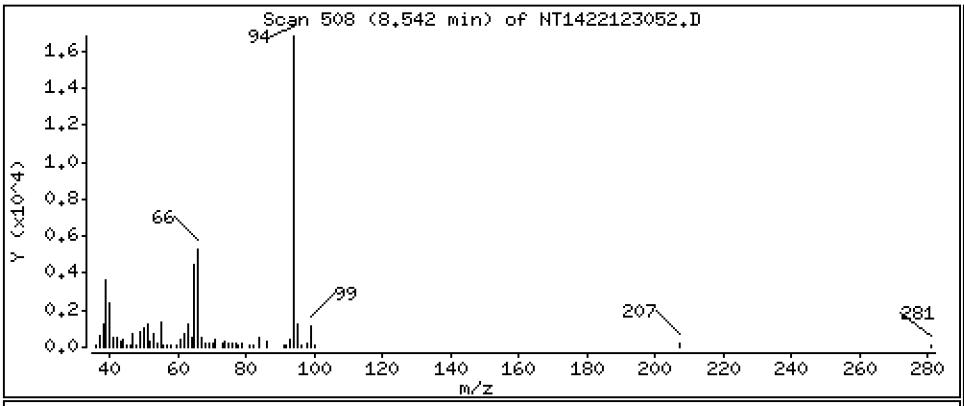
Operator: VTS

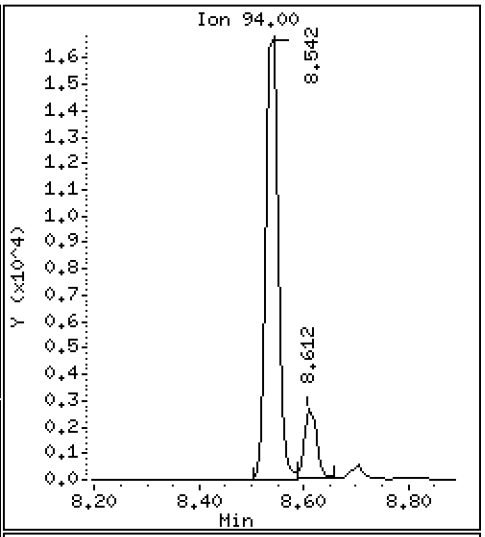
Column phase: ZB-5msi

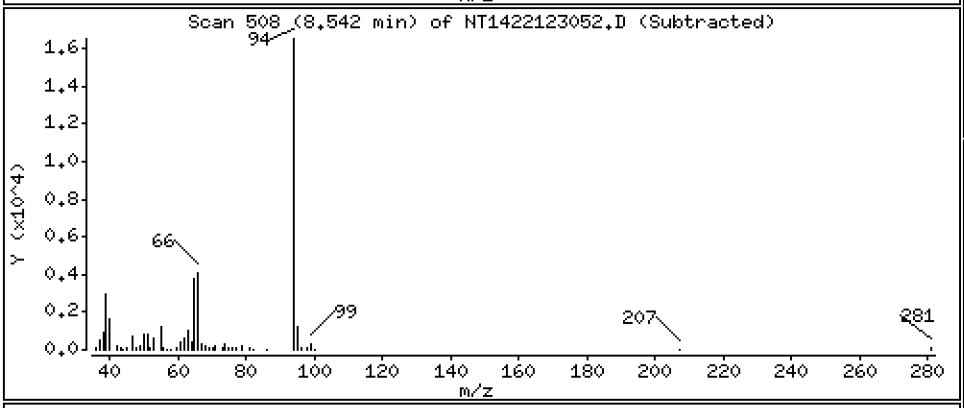
Column diameter: 0.25

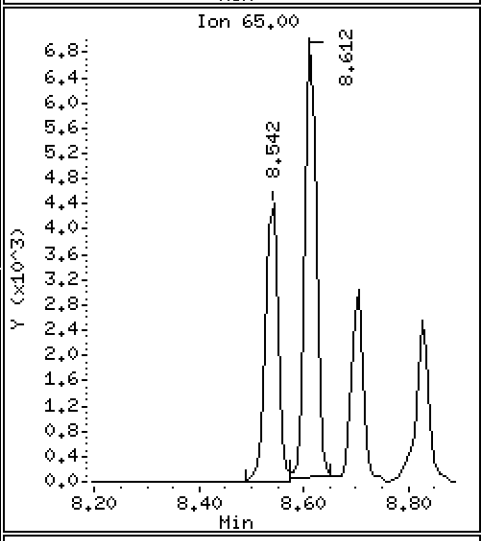
3 Phenol

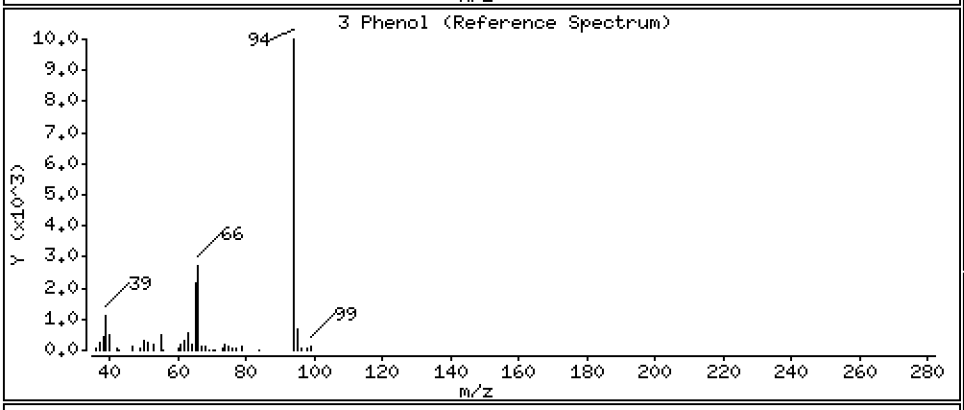
Concentration: 0.4814 ug/mL

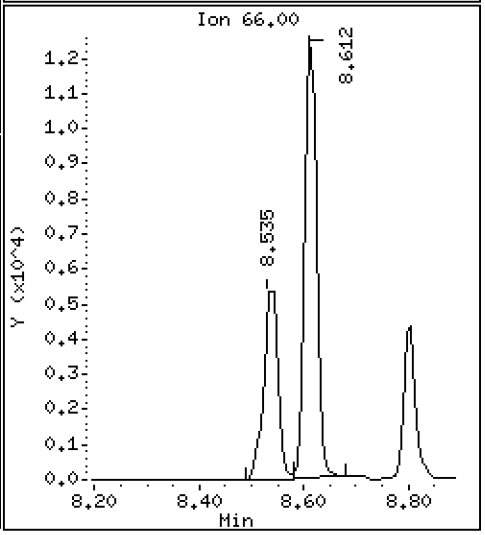


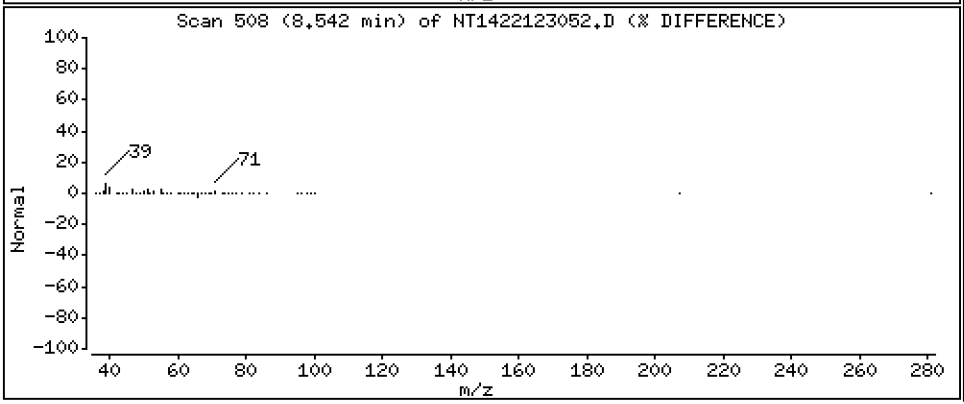












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

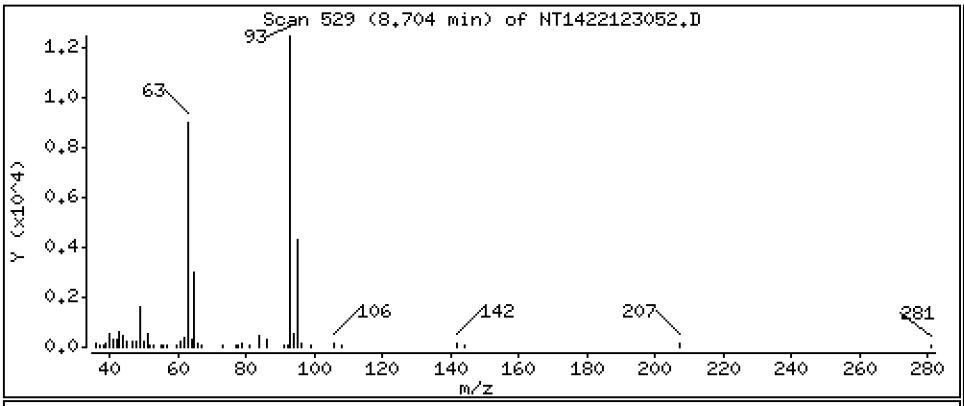
Operator: VTS

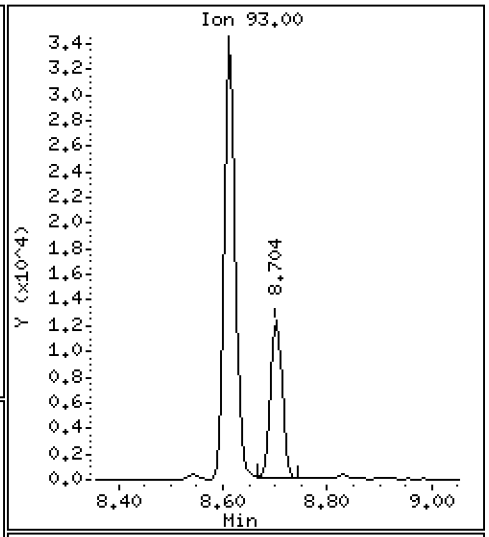
Column phase: ZB-5msi

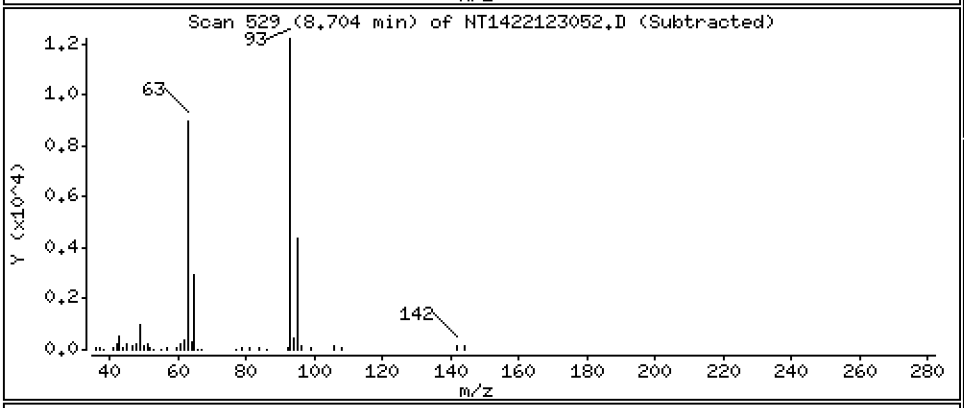
Column diameter: 0.25

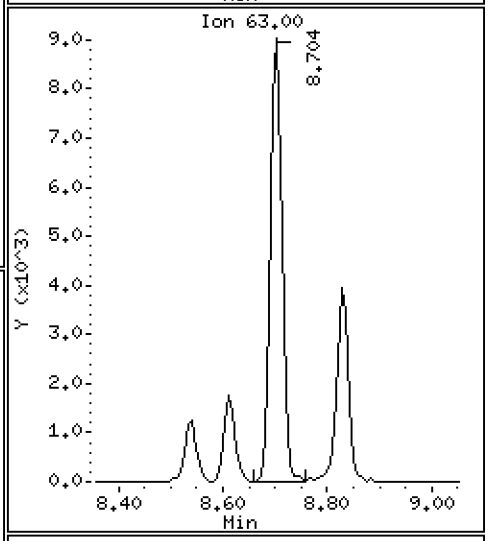
4 Bis(2-Chloroethyl)ether

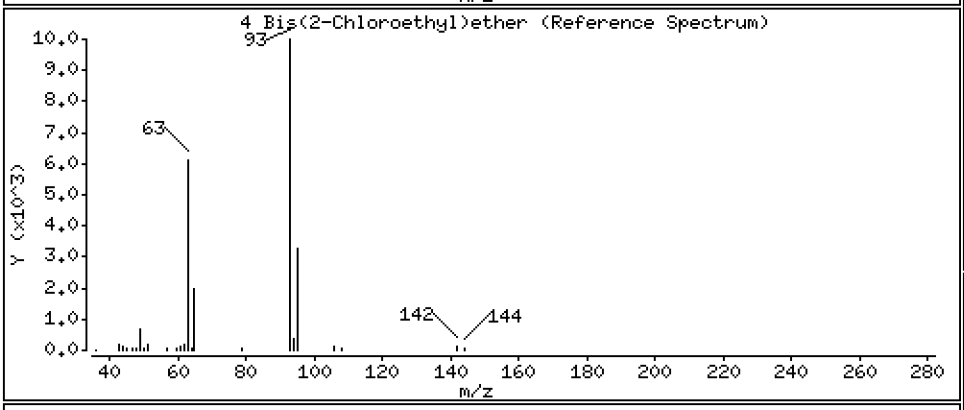
Concentration: 0.4852 ug/mL

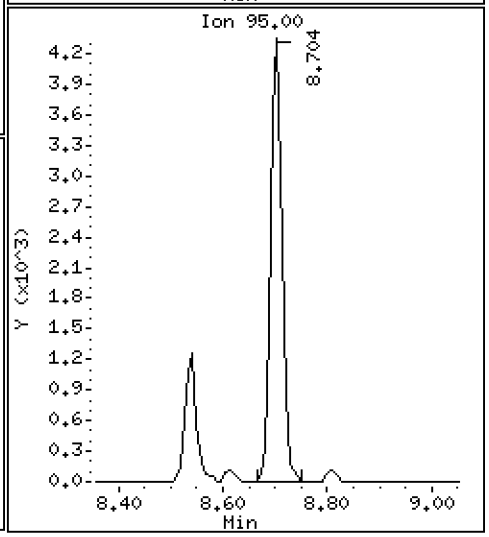


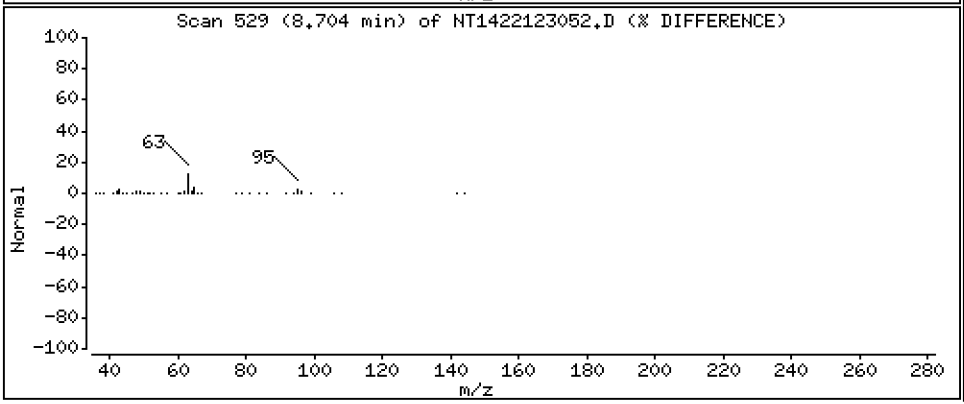












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

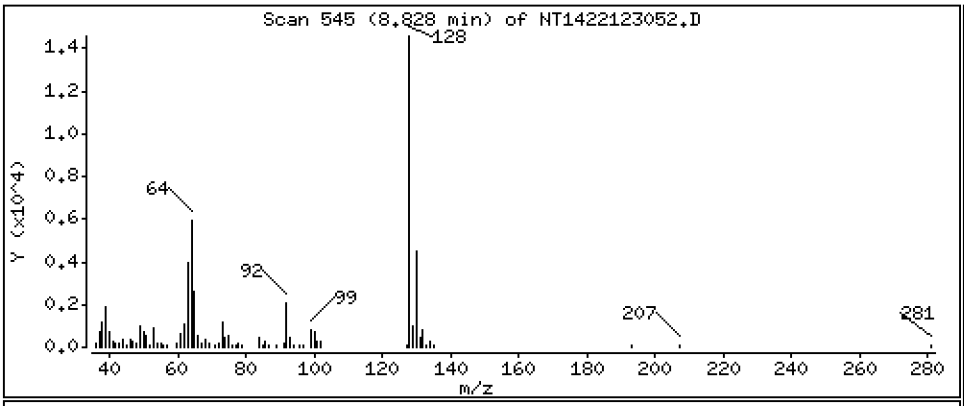
Operator: VTS

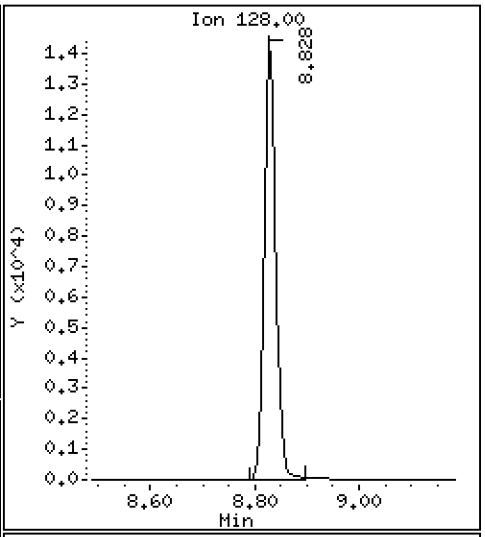
Column phase: ZB-5msi

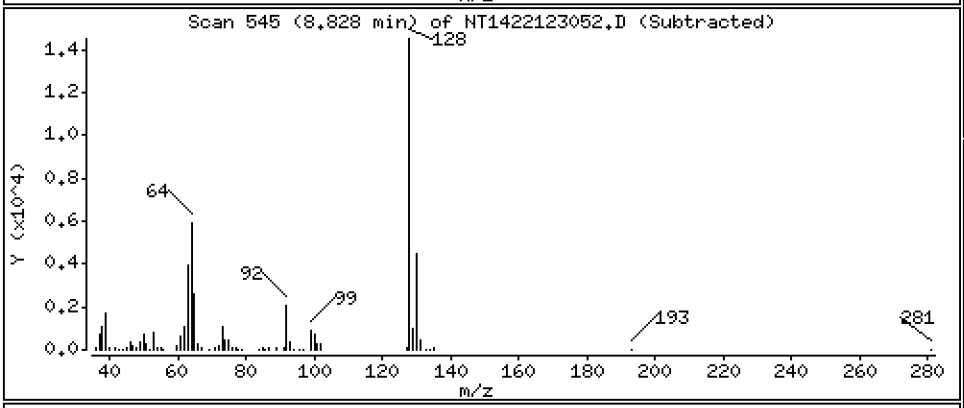
Column diameter: 0.25

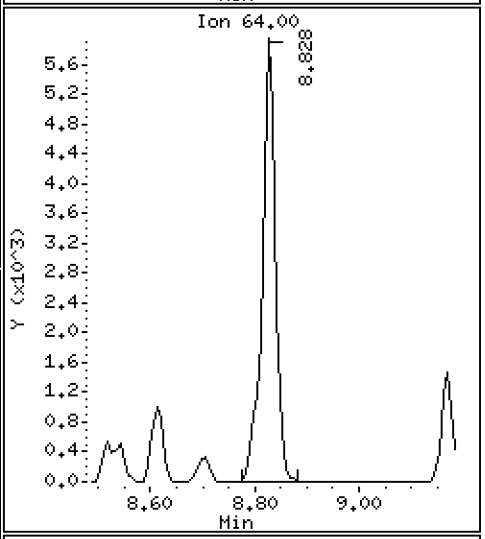
6 2-Chlorophenol

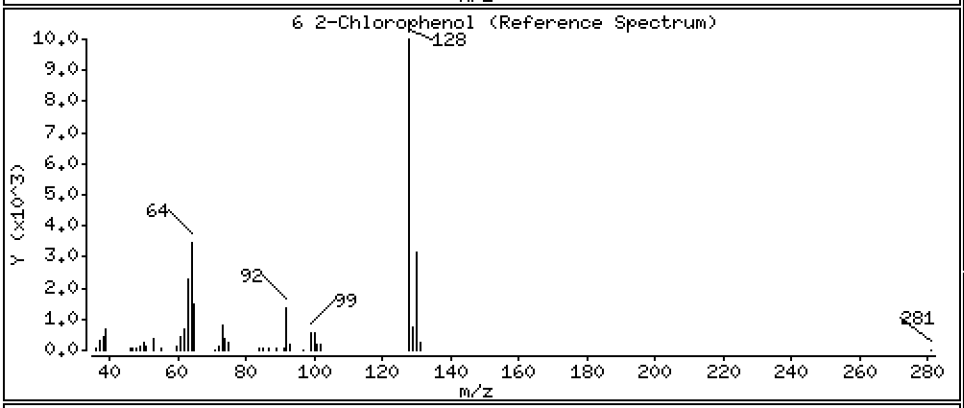
Concentration: 0.5057 ug/mL

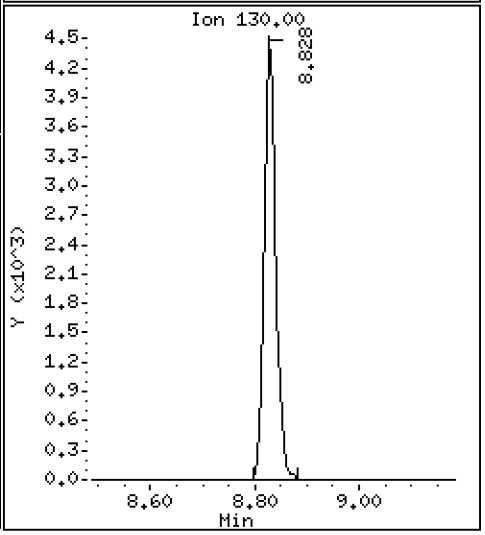


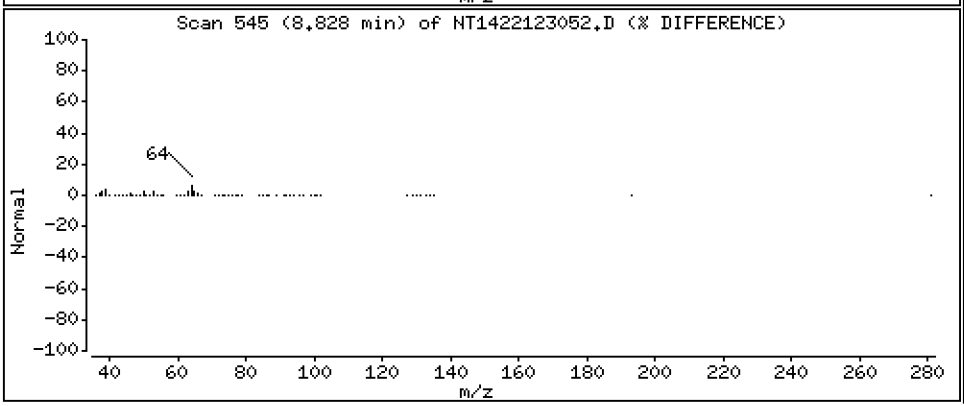












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

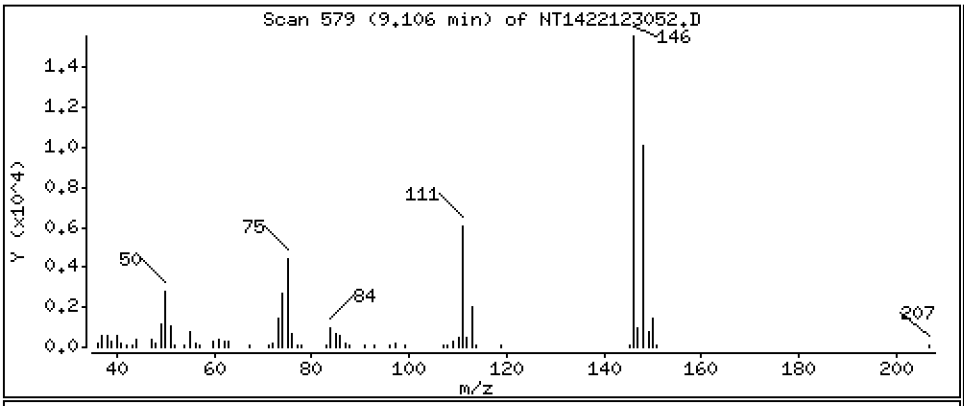
Operator: VTS

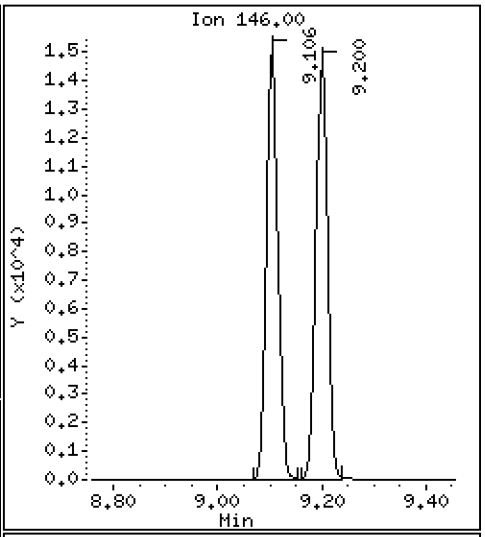
Column phase: ZB-5msi

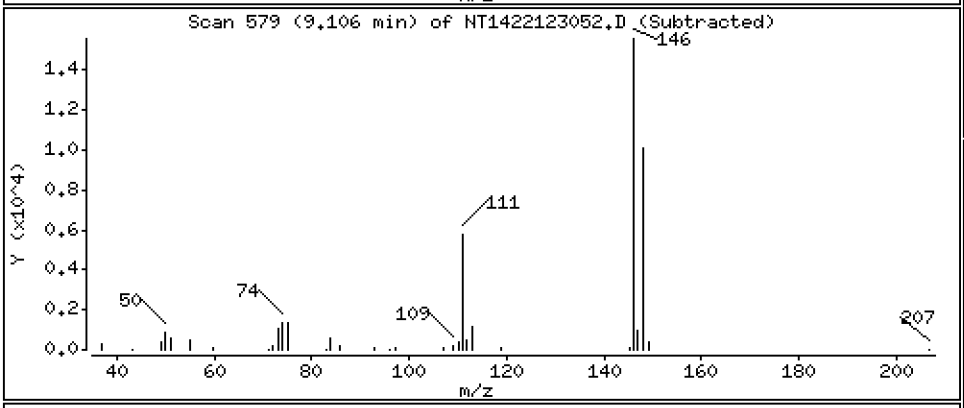
Column diameter: 0.25

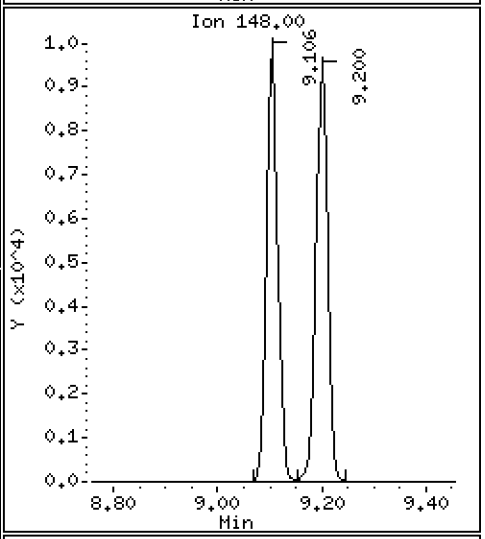
7 1,3-Dichlorobenzene

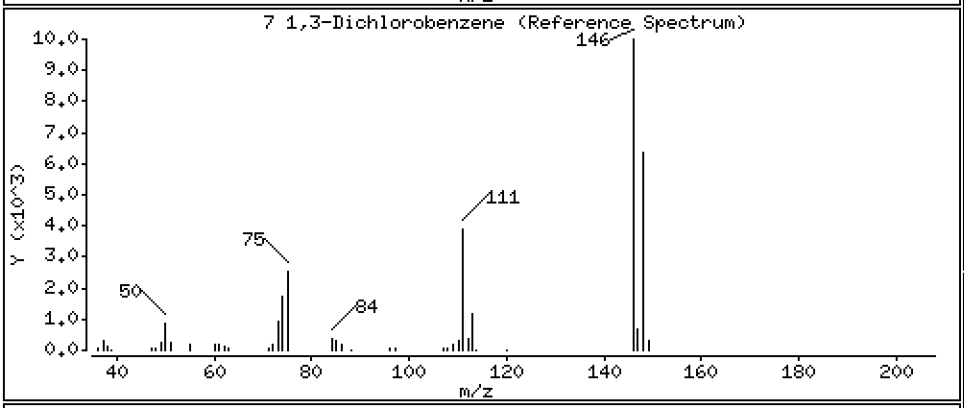
Concentration: 0.4948 ug/mL

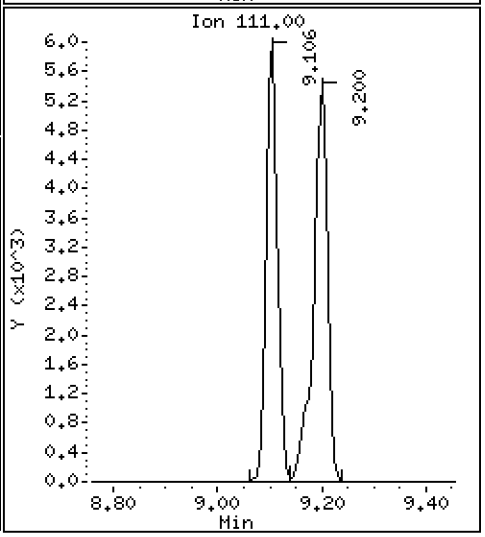


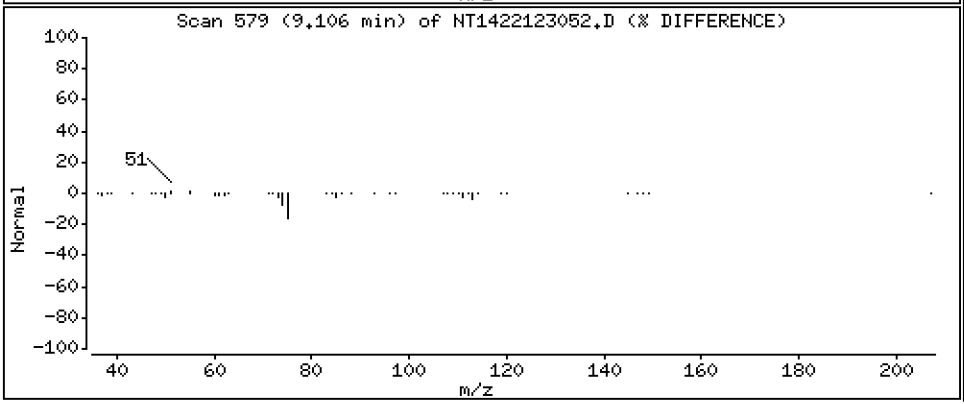












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

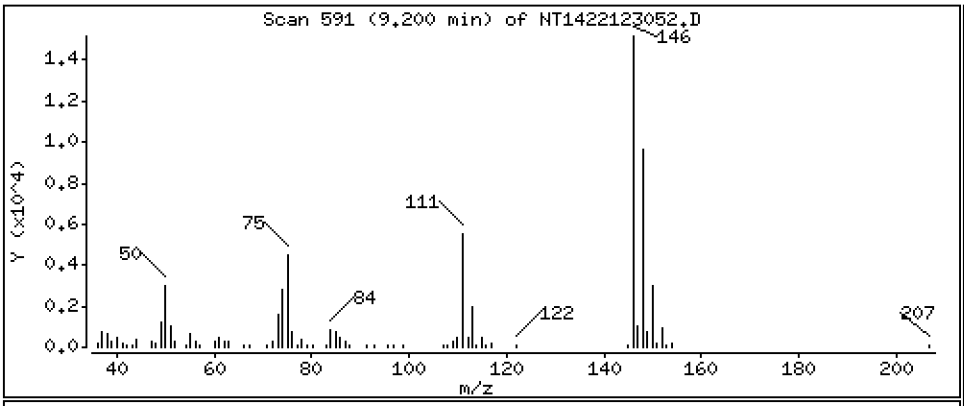
Operator: VTS

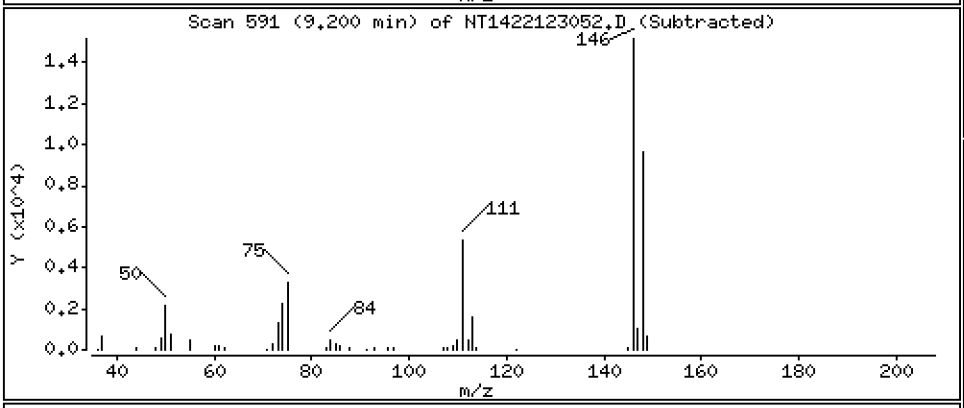
Column phase: ZB-5msi

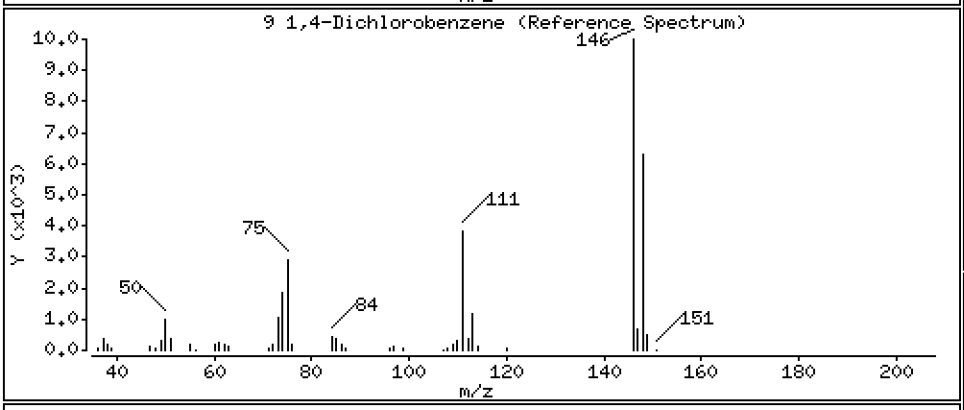
Column diameter: 0.25

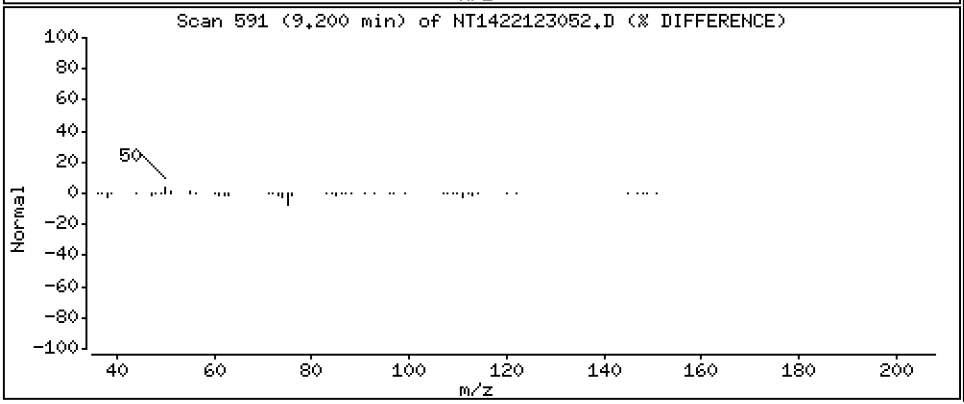
9 1,4-Dichlorobenzene

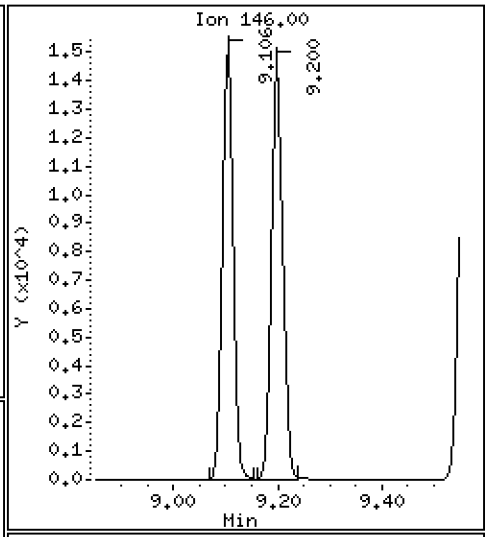
Concentration: 0.4924 ug/mL

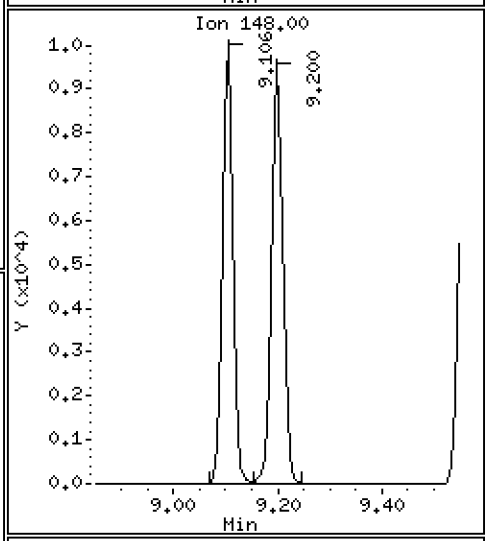


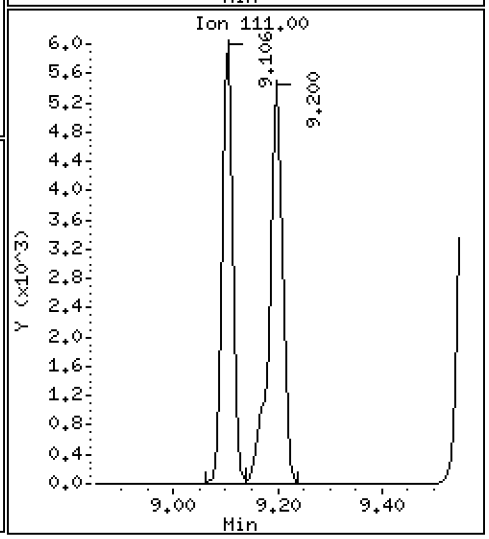












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

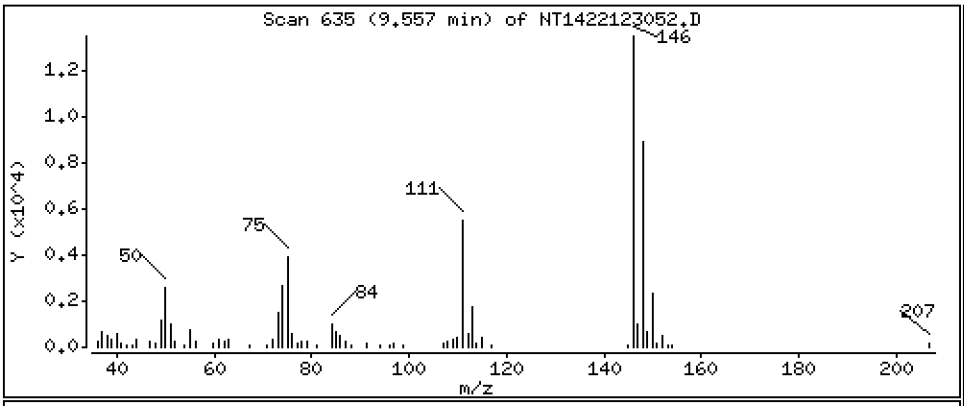
Operator: VTS

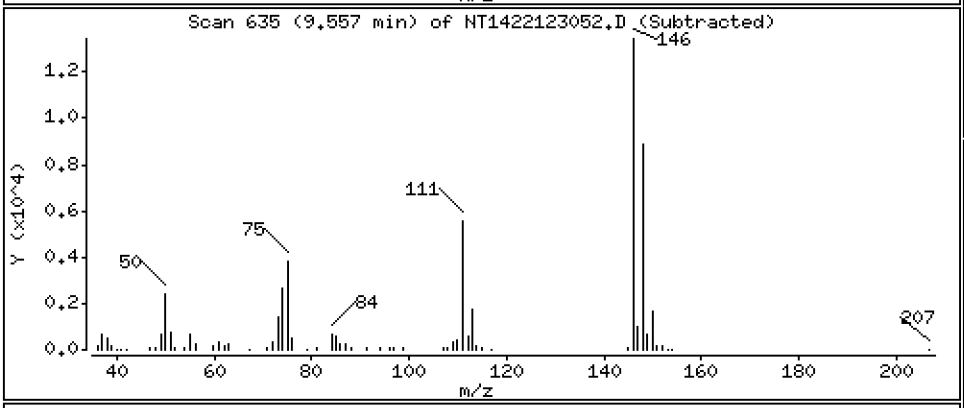
Column phase: ZB-5msi

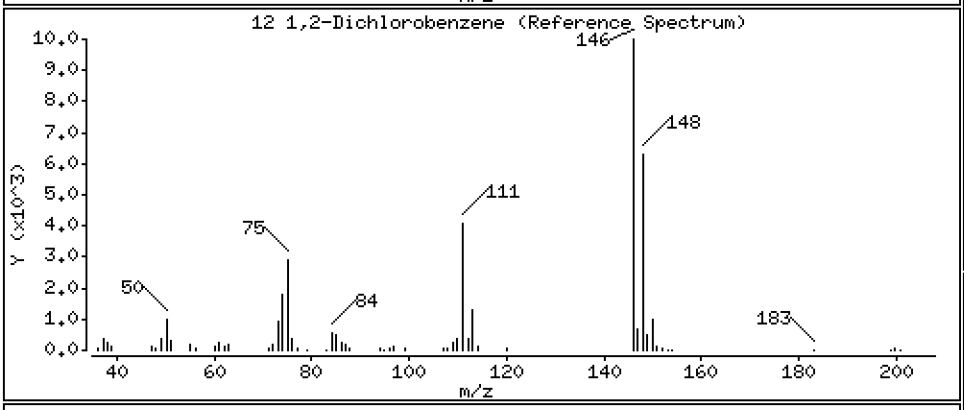
Column diameter: 0.25

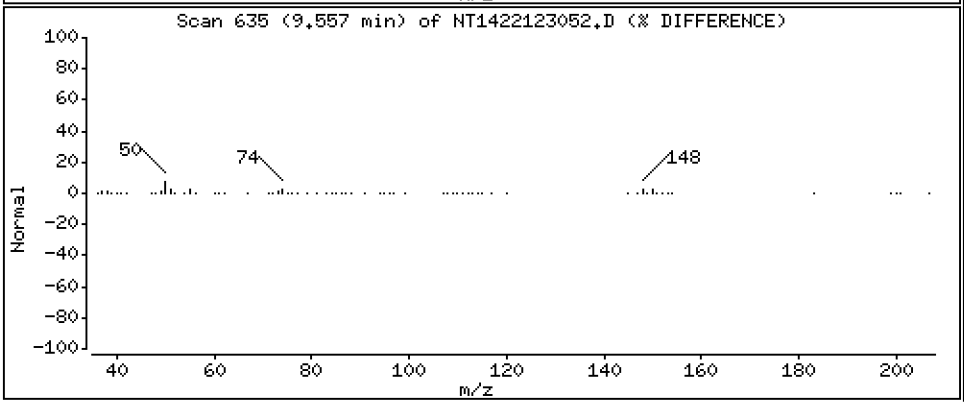
12 1,2-Dichlorobenzene

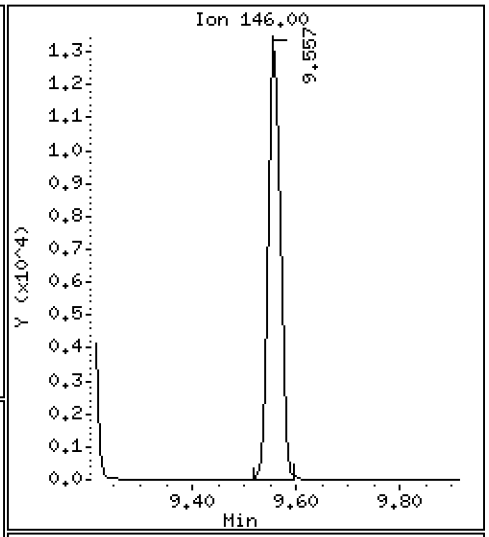
Concentration: 0.4842 ug/mL

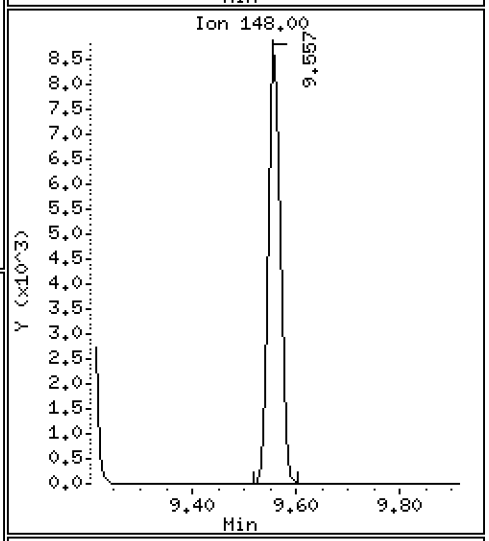


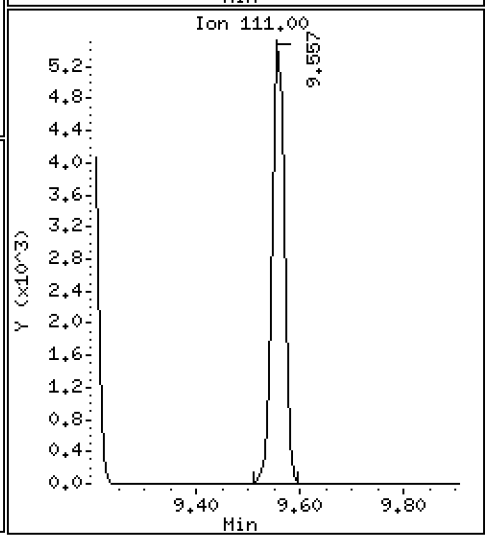












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

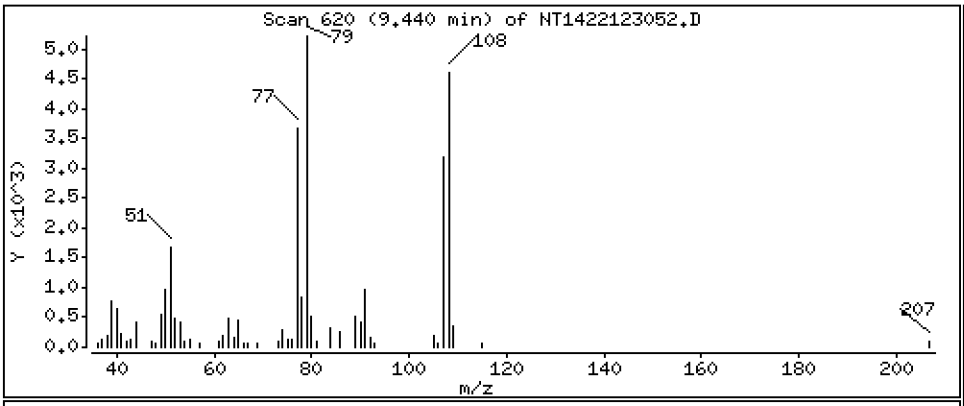
Operator: VTS

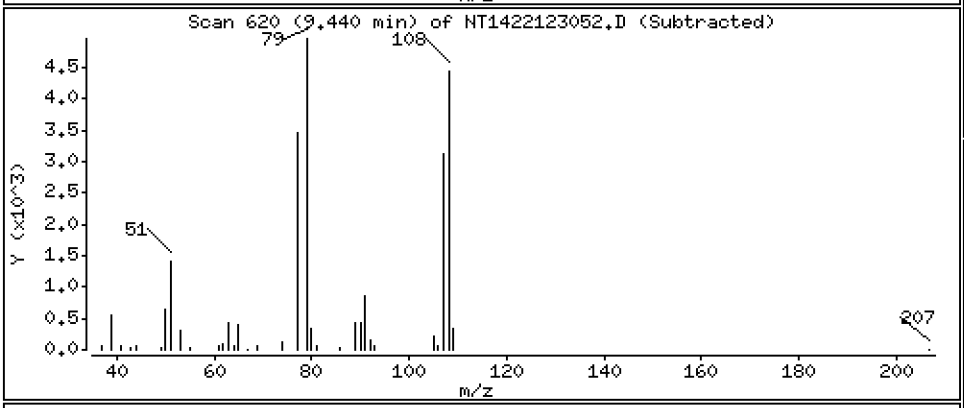
Column phase: ZB-5msi

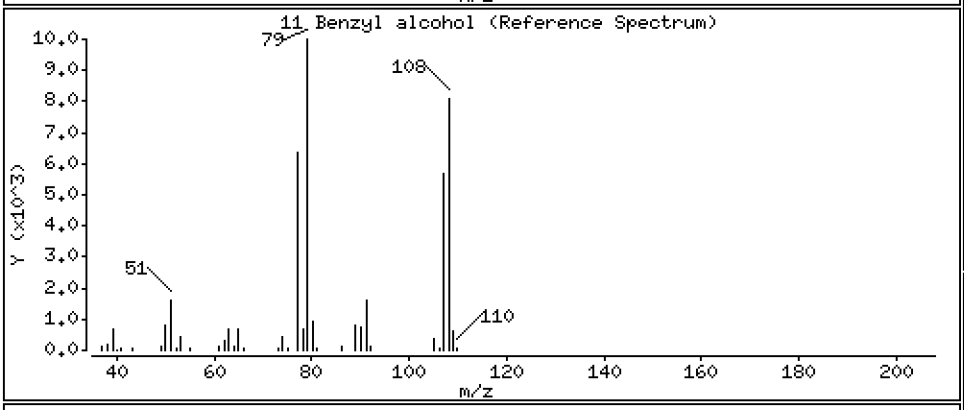
Column diameter: 0.25

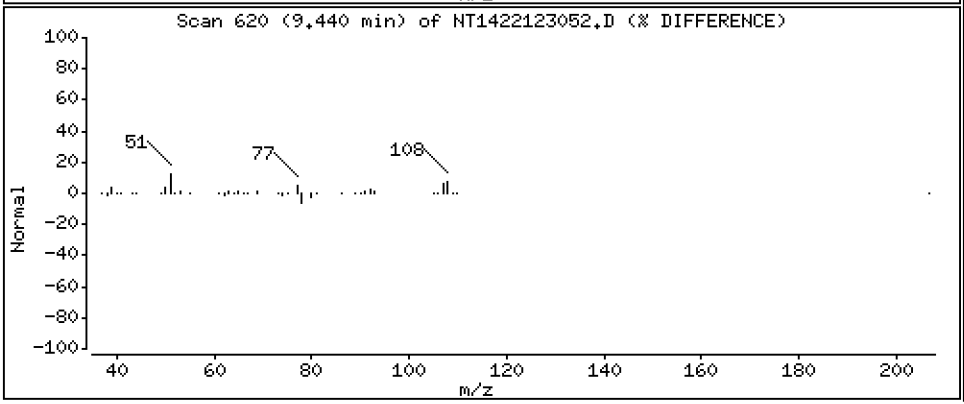
11 Benzyl alcohol

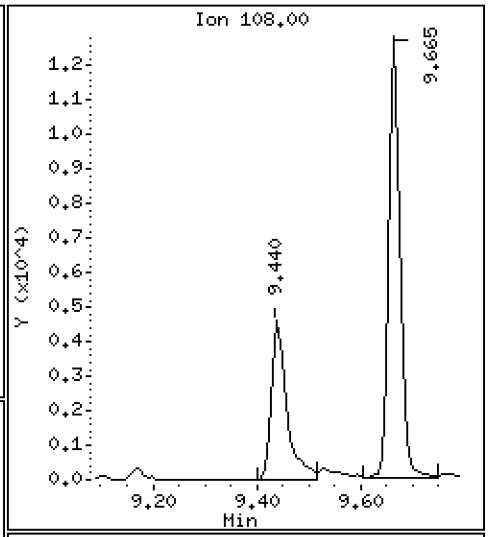
Concentration: 0.3788 ug/mL

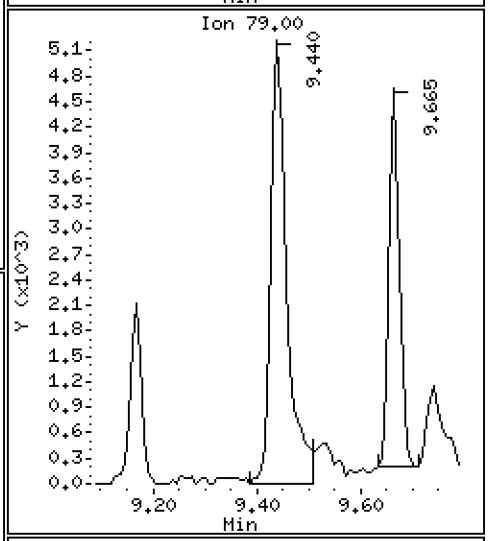


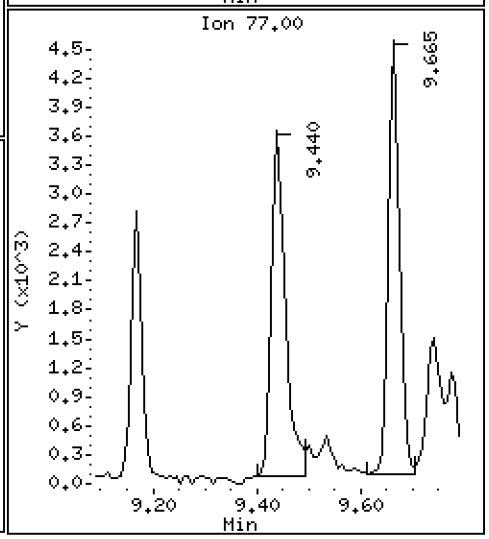












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

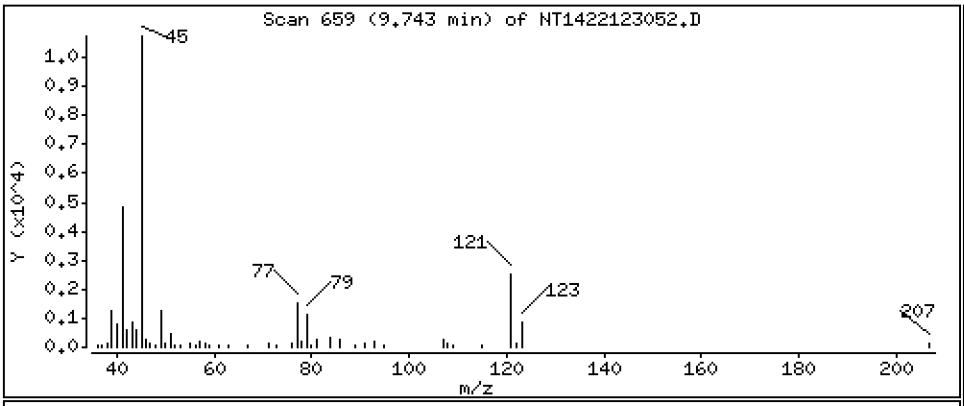
Operator: VTS

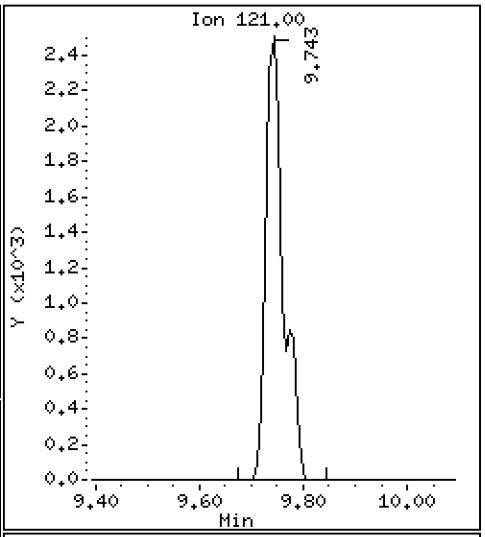
Column phase: ZB-5msi

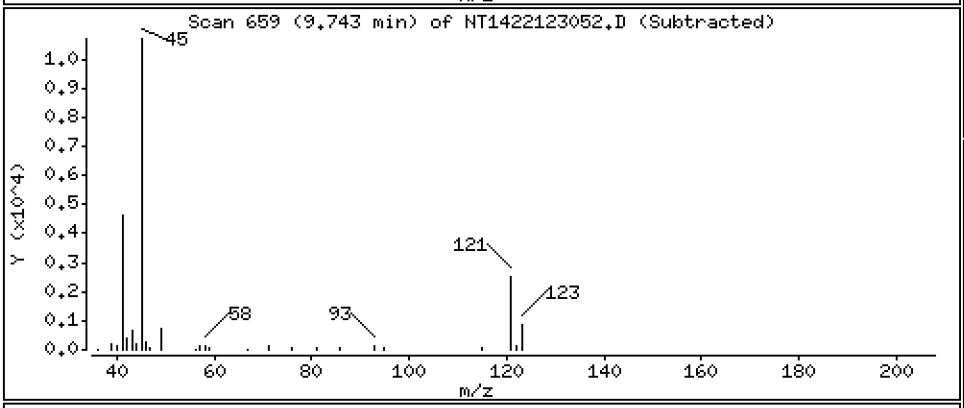
Column diameter: 0.25

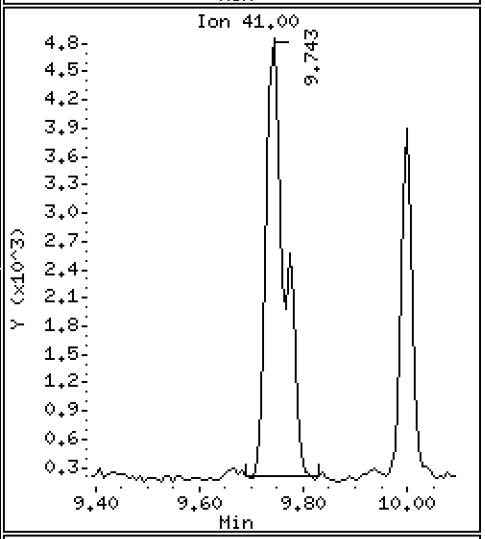
14 2,2'-oxybis(1-Chloropropane)

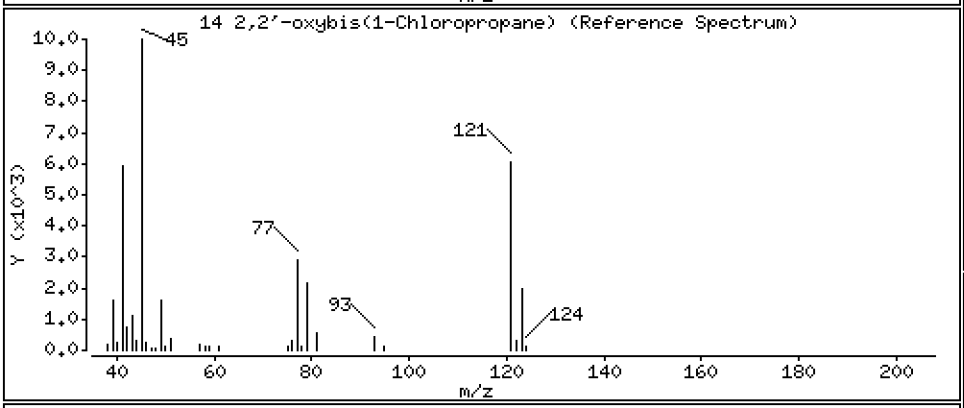
Concentration: 0.4614 ug/mL

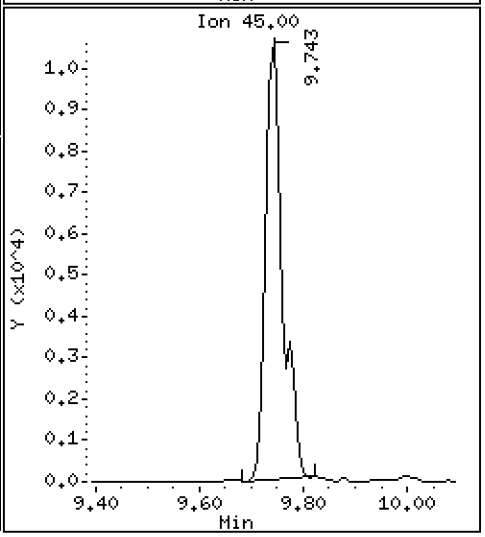


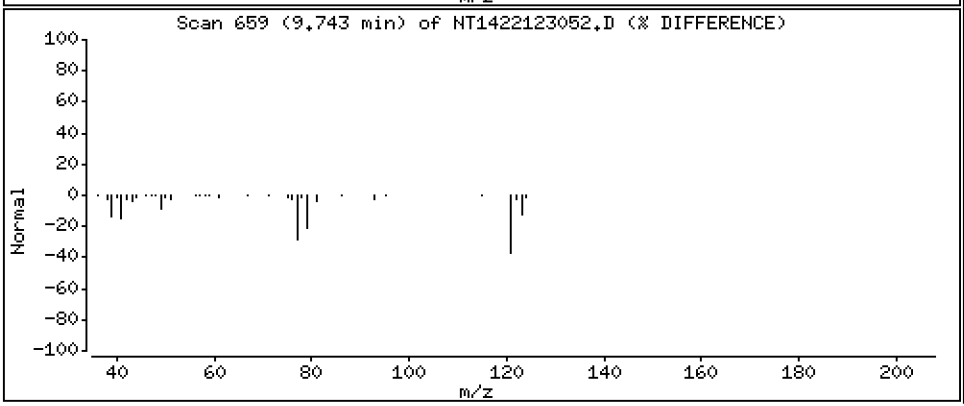












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

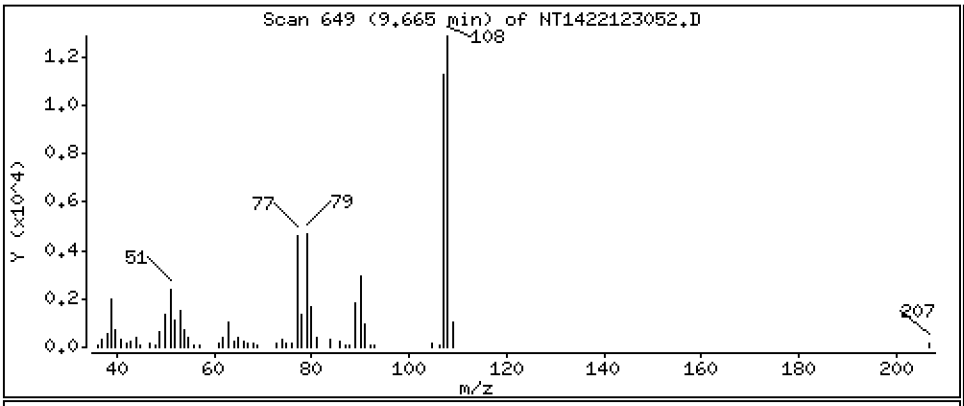
Operator: VTS

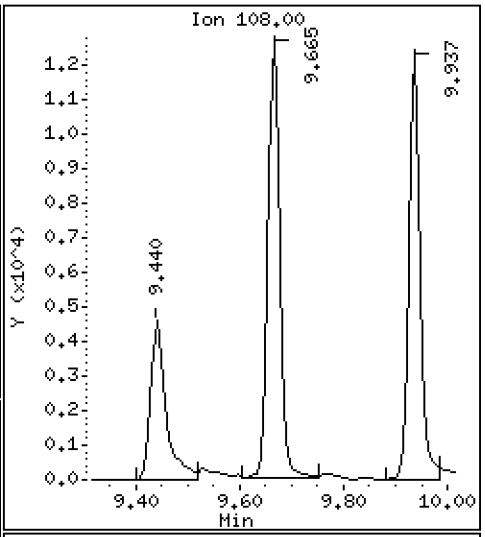
Column phase: ZB-5msi

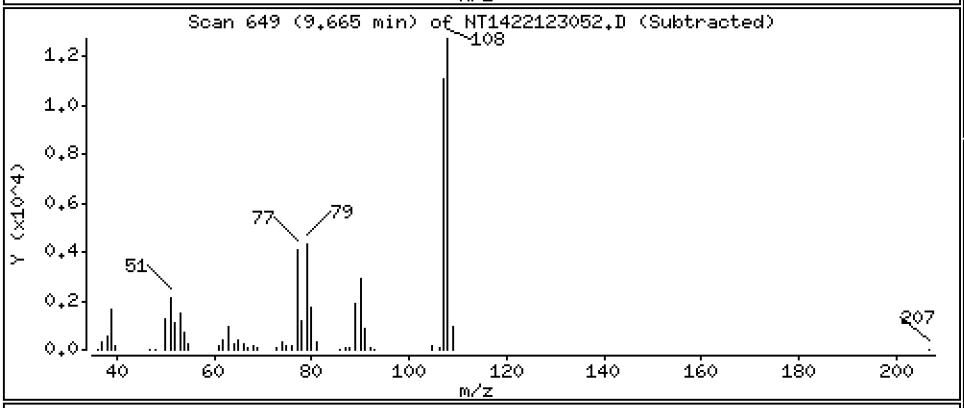
Column diameter: 0.25

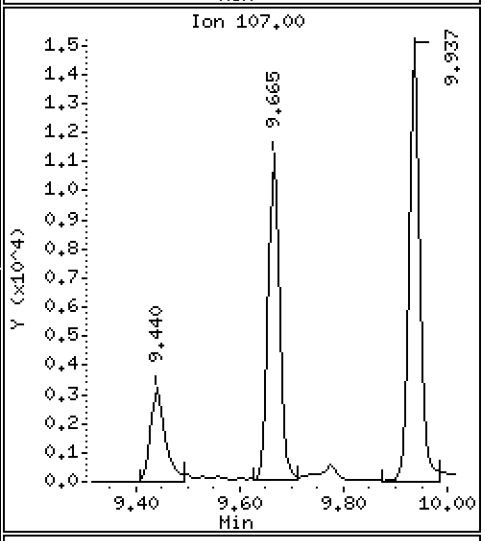
13 2-Methylphenol

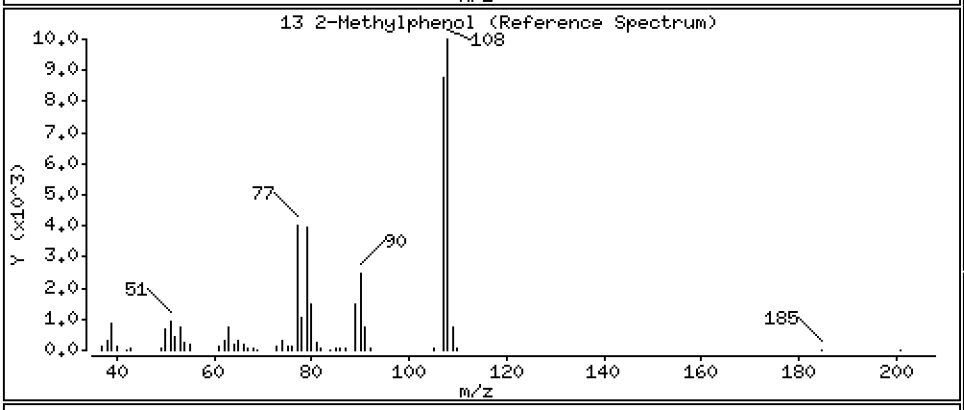
Concentration: 0.4833 ug/mL

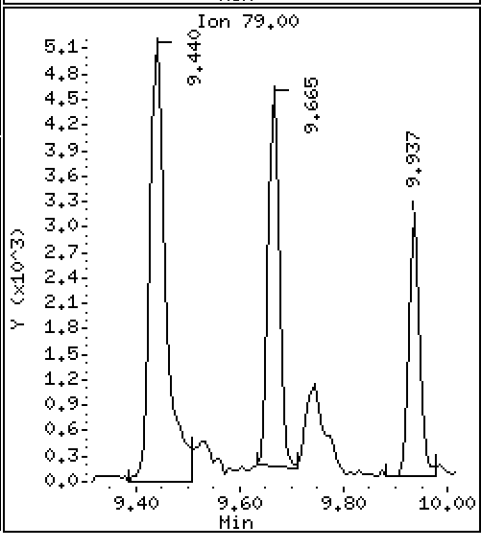


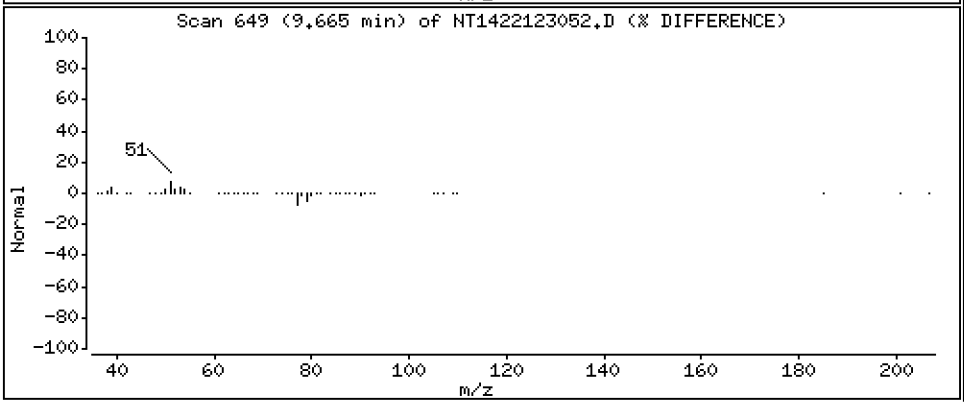












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

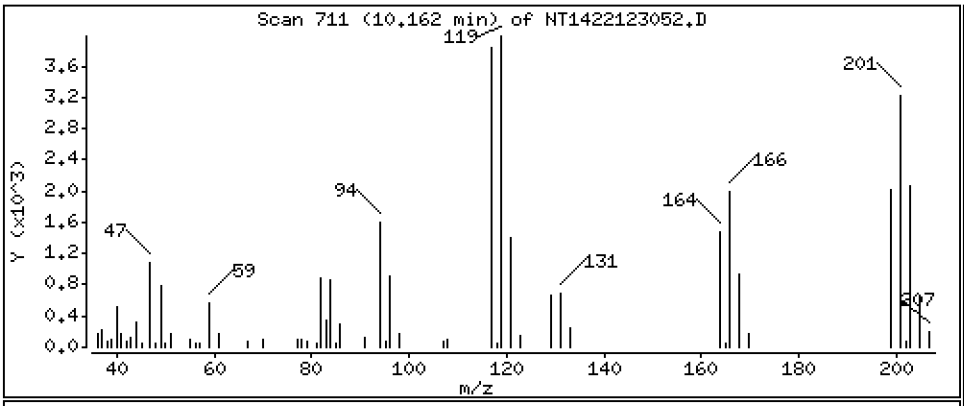
Operator: VTS

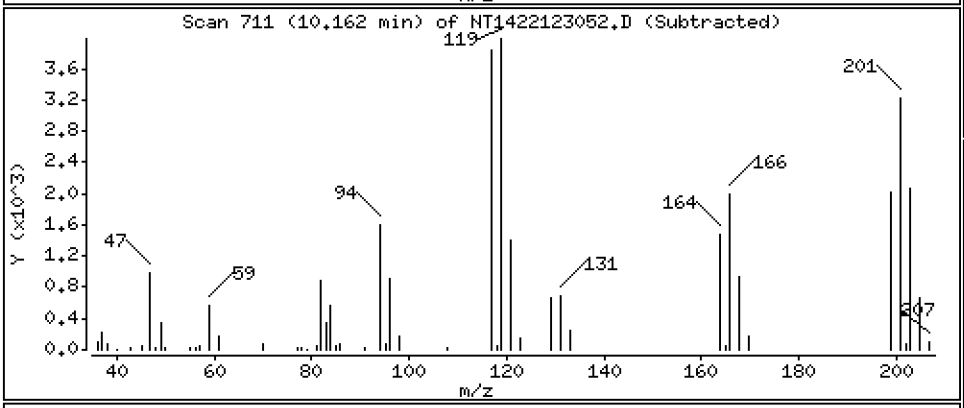
Column phase: ZB-5msi

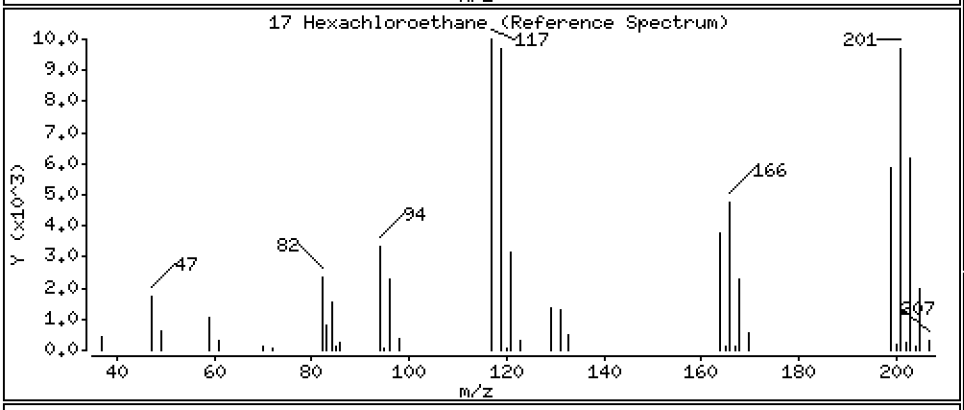
Column diameter: 0.25

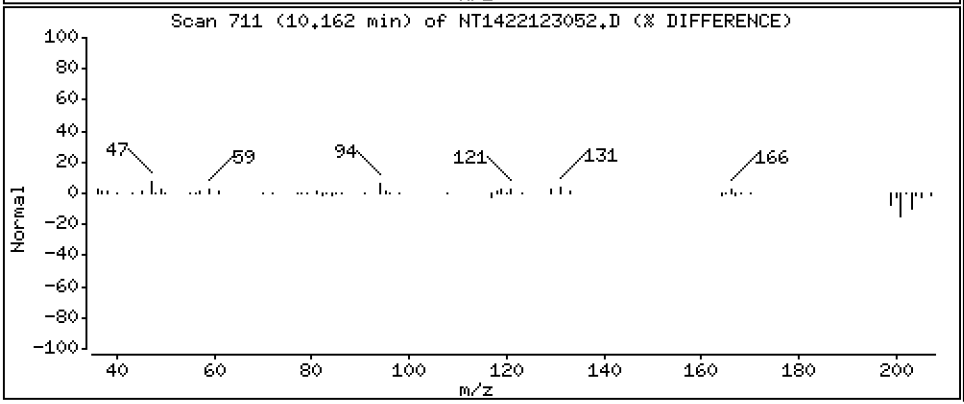
17 Hexachloroethane

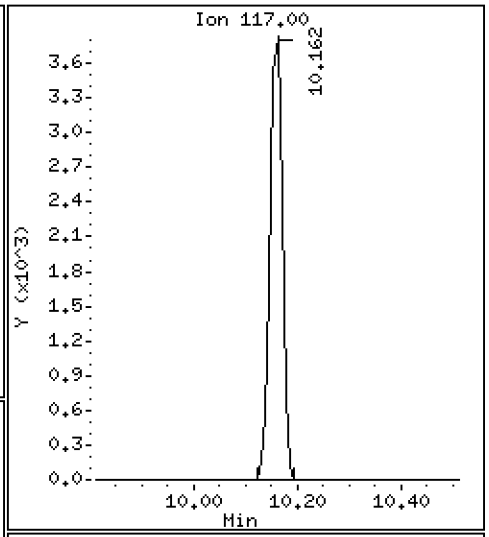
Concentration: 0.3728 ug/mL

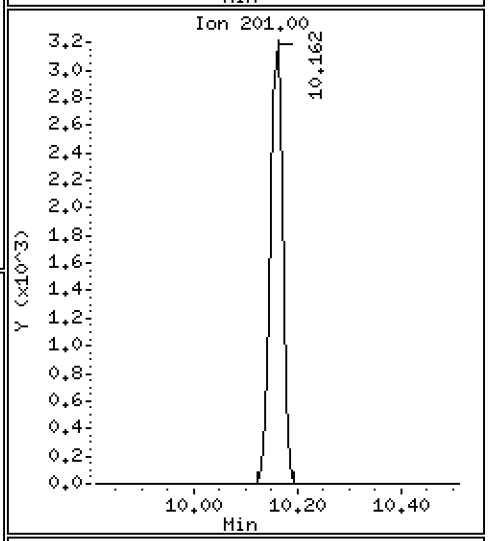


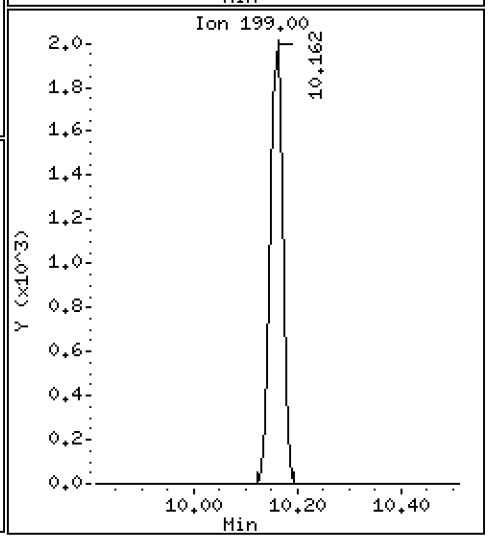












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

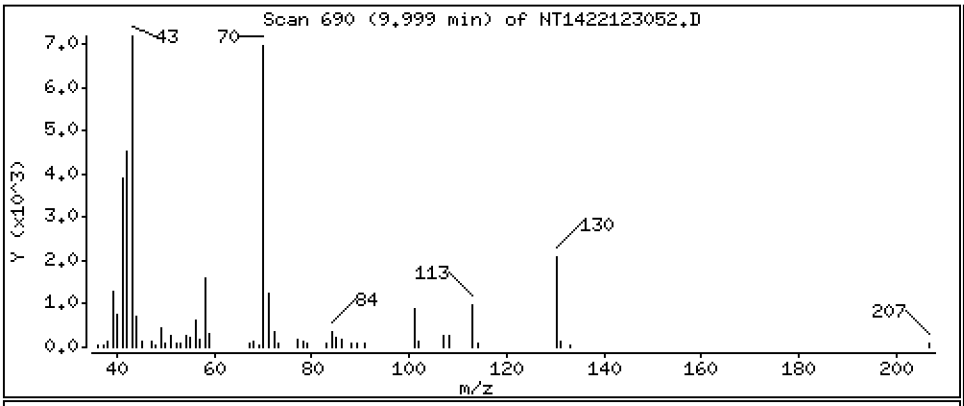
Operator: VTS

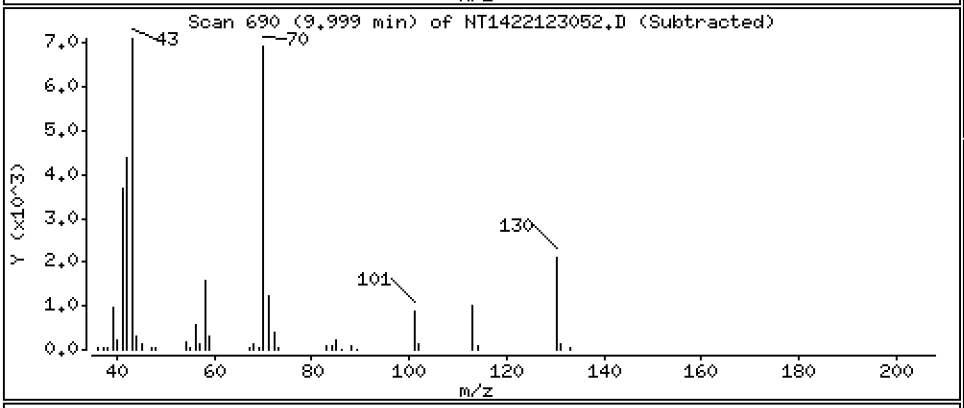
Column phase: ZB-5msi

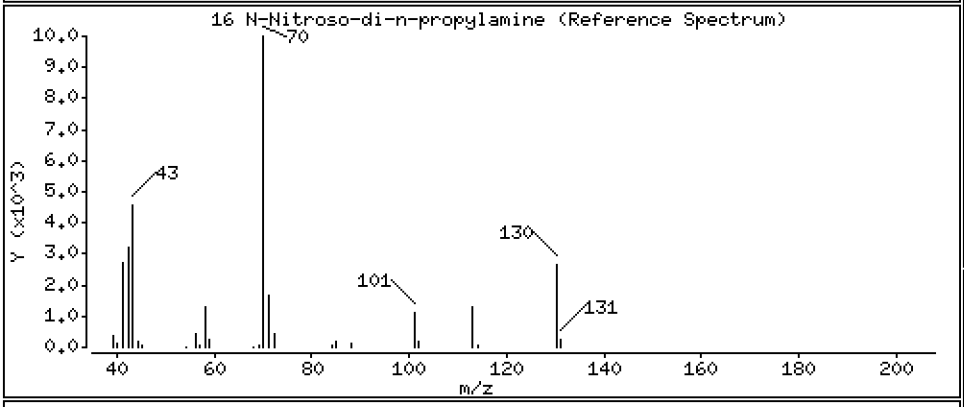
Column diameter: 0.25

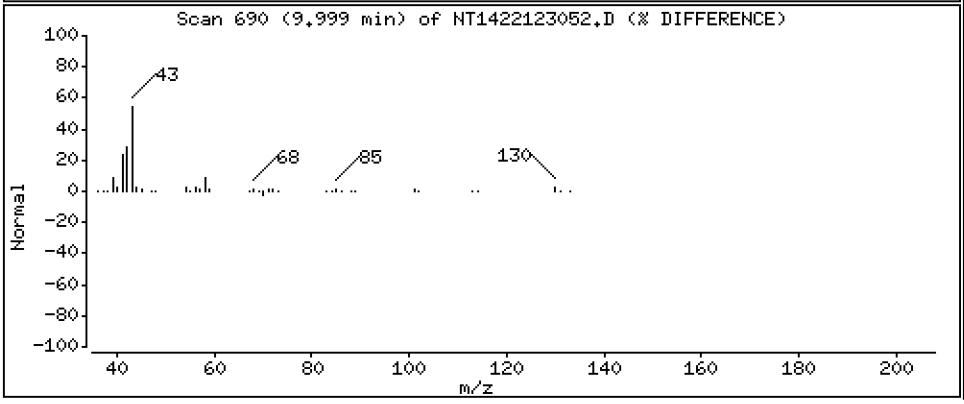
16 N-Nitroso-di-n-propylamine

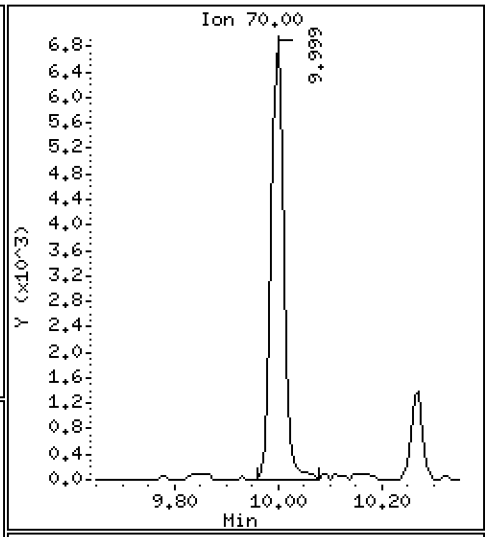
Concentration: 0.4654 ug/mL

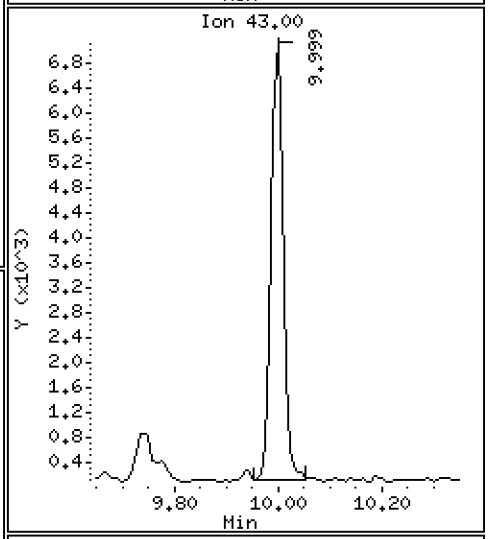


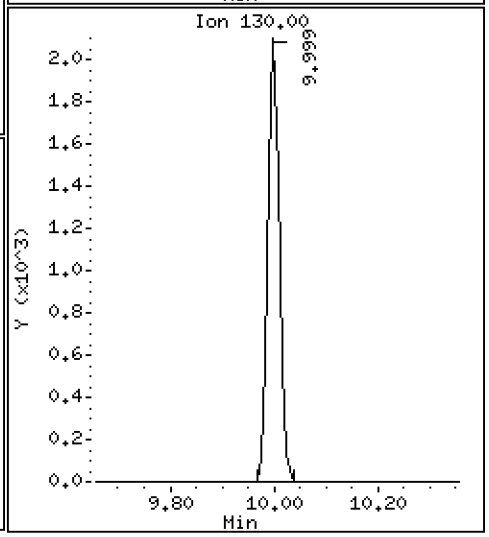












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

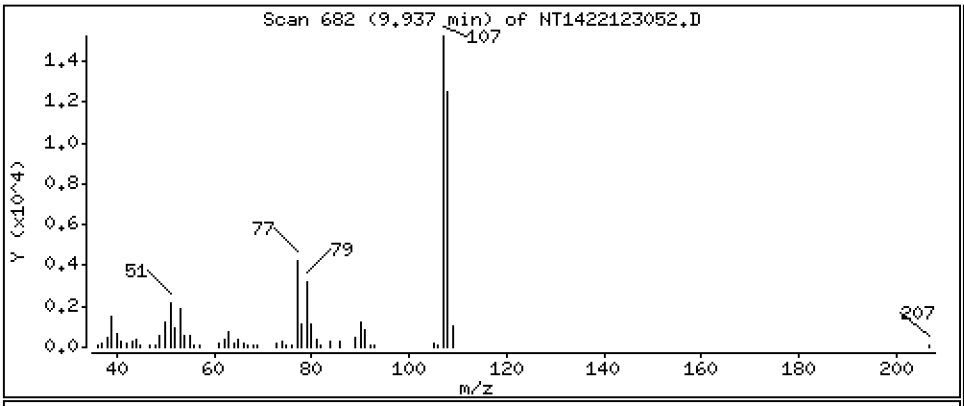
Operator: VTS

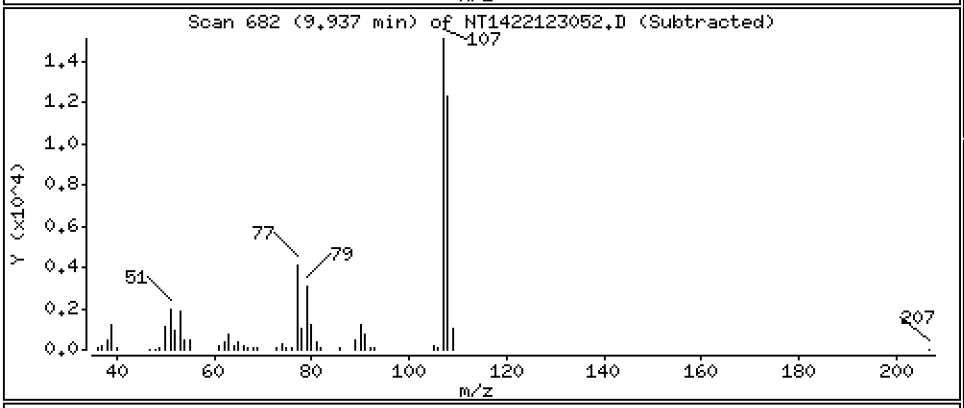
Column phase: ZB-5msi

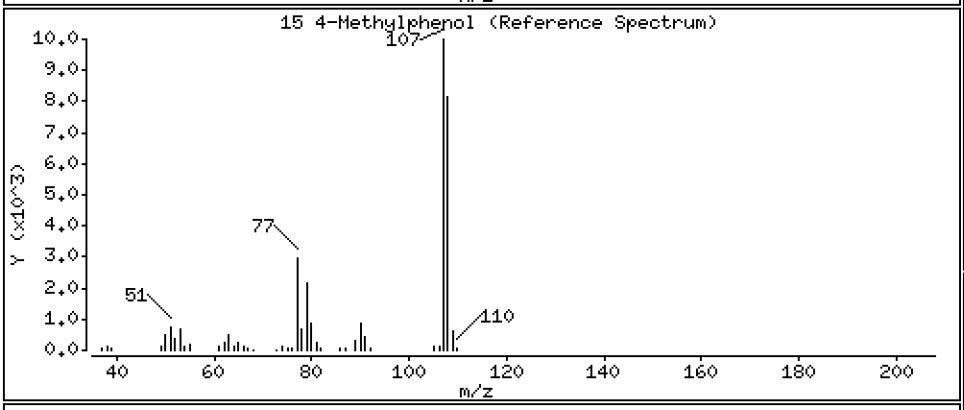
Column diameter: 0.25

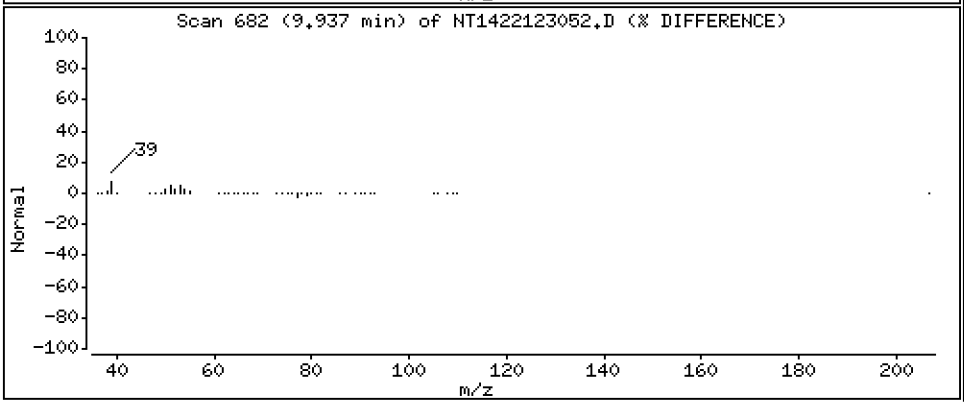
15 4-Methylphenol

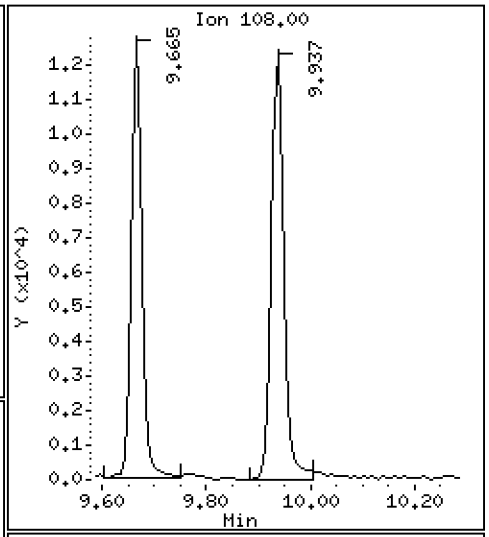
Concentration: 0.4747 ug/mL

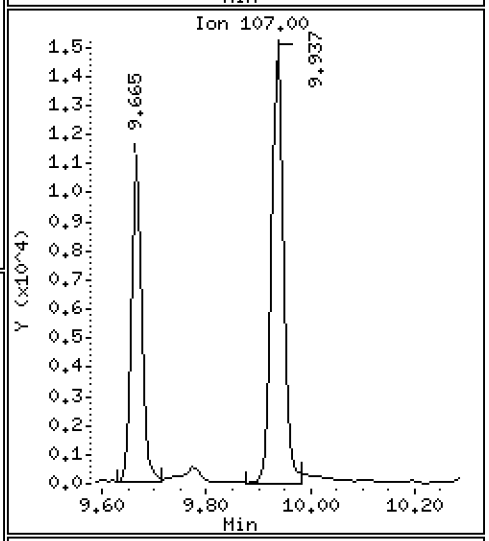


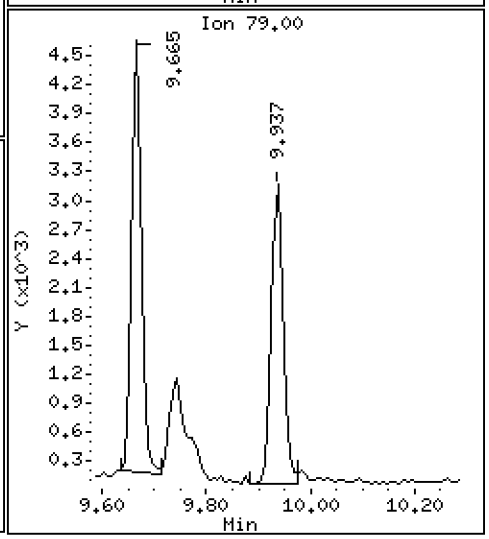












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

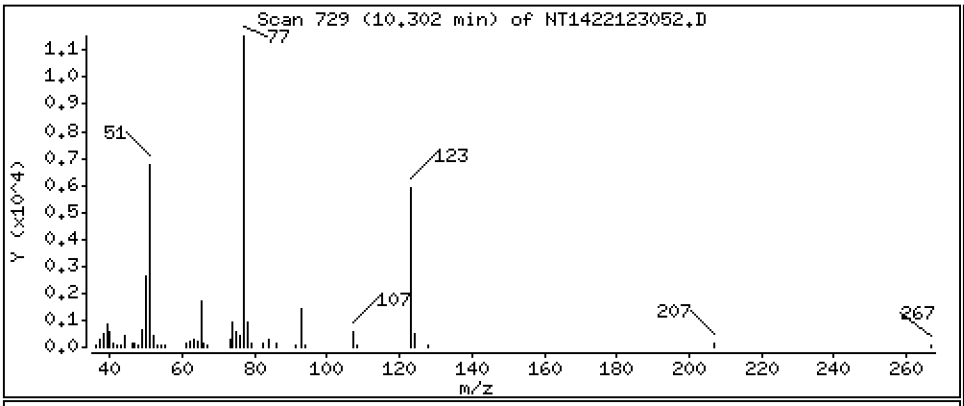
Operator: VTS

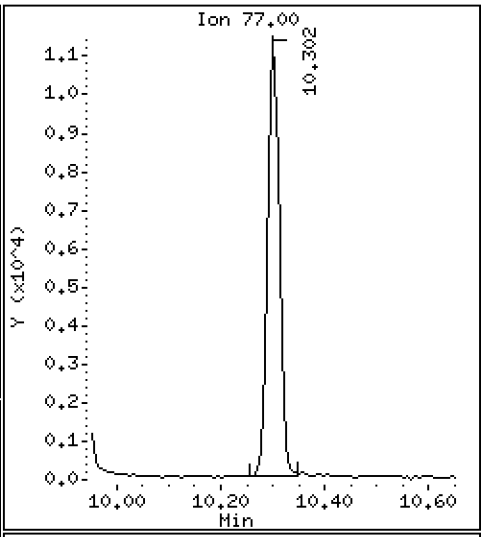
Column phase: ZB-5msi

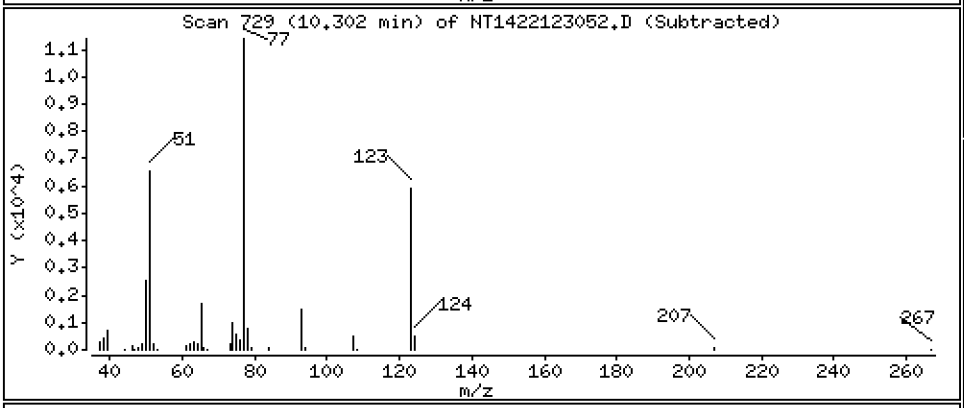
Column diameter: 0.25

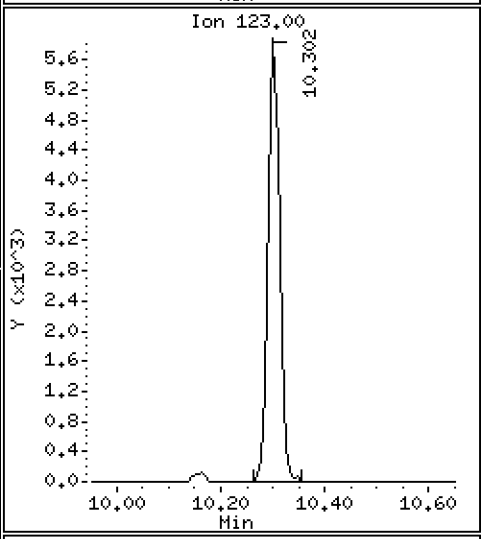
19 Nitrobenzene

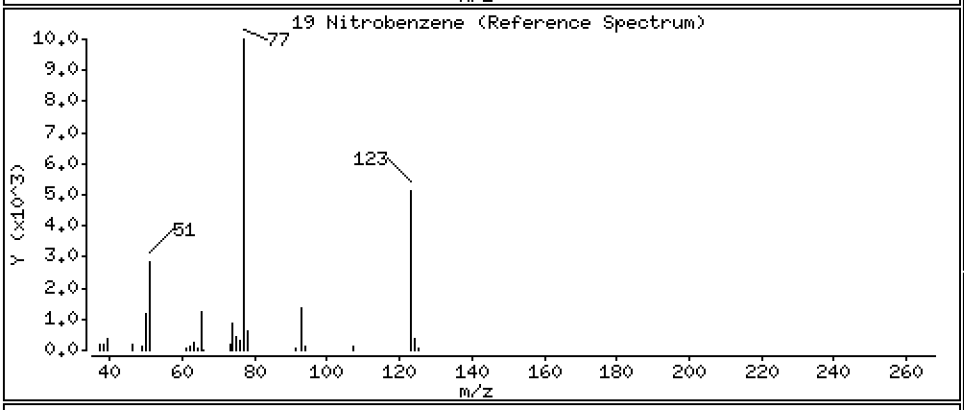
Concentration: 0.4641 ug/mL

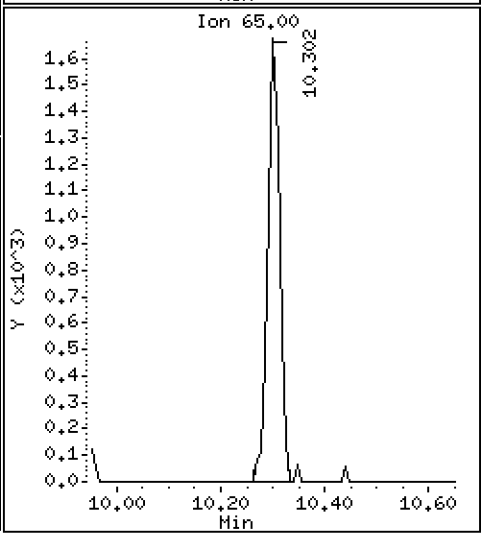


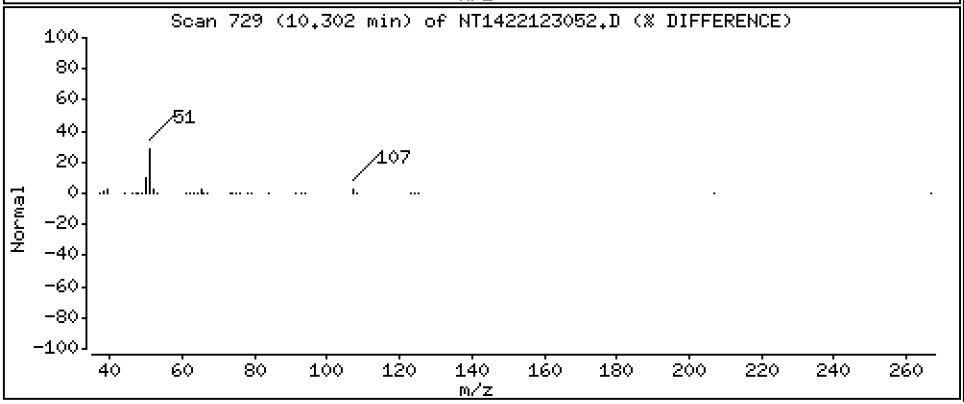












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

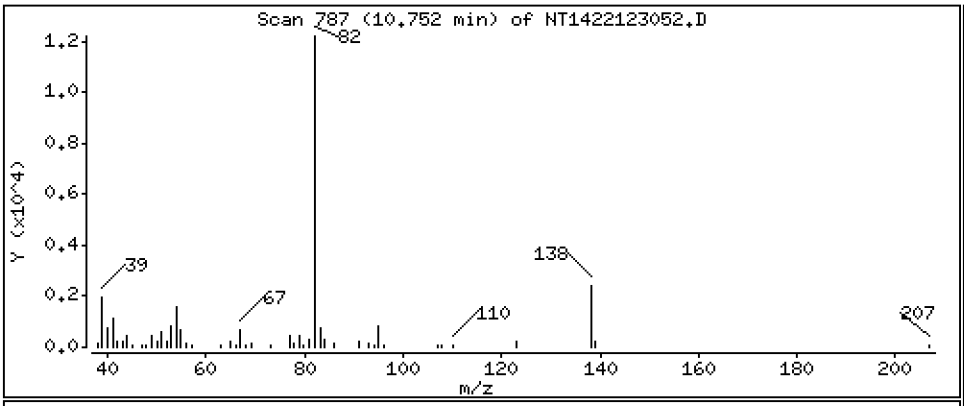
Operator: VTS

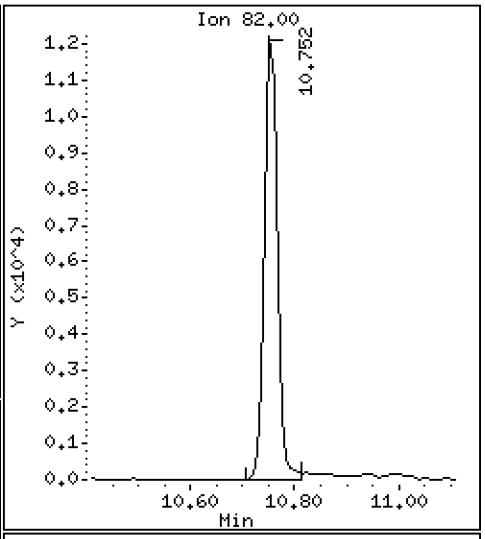
Column phase: ZB-5msi

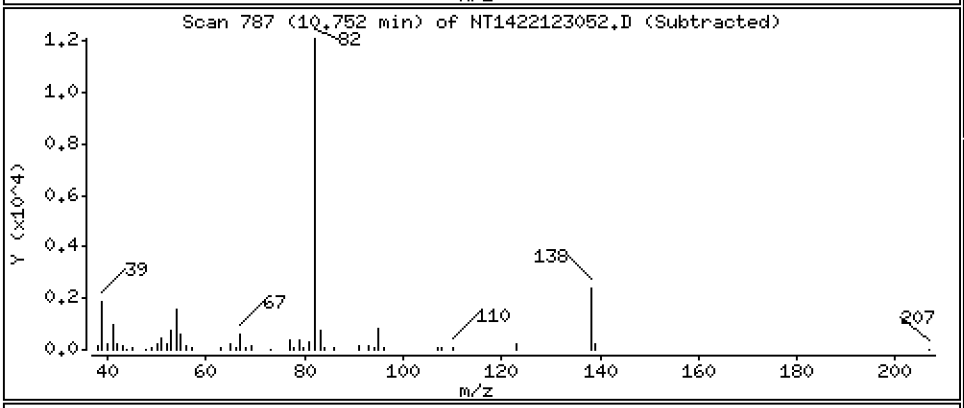
Column diameter: 0.25

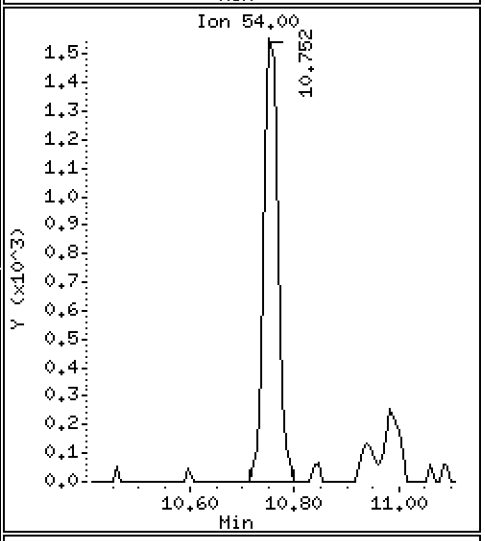
20 Isophorone

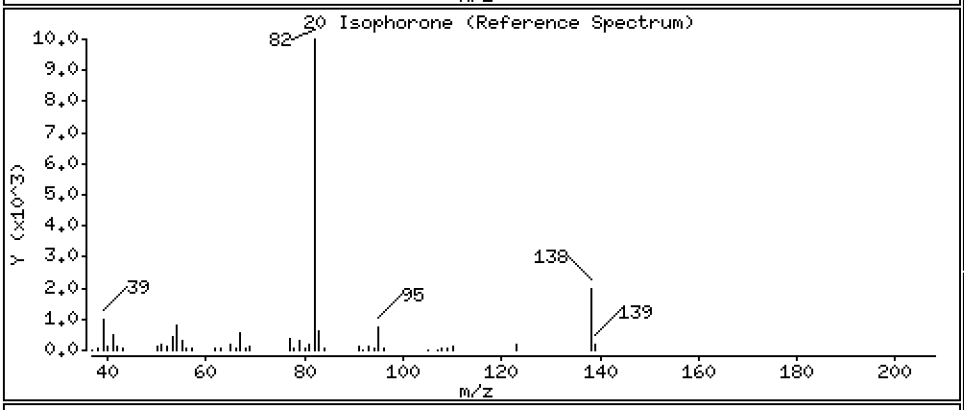
Concentration: 0.4317 ug/mL

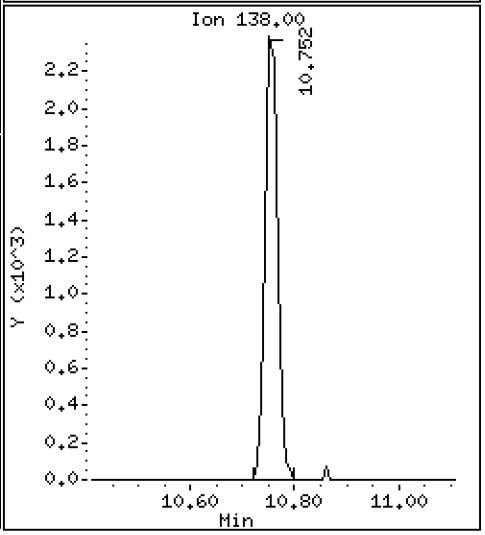


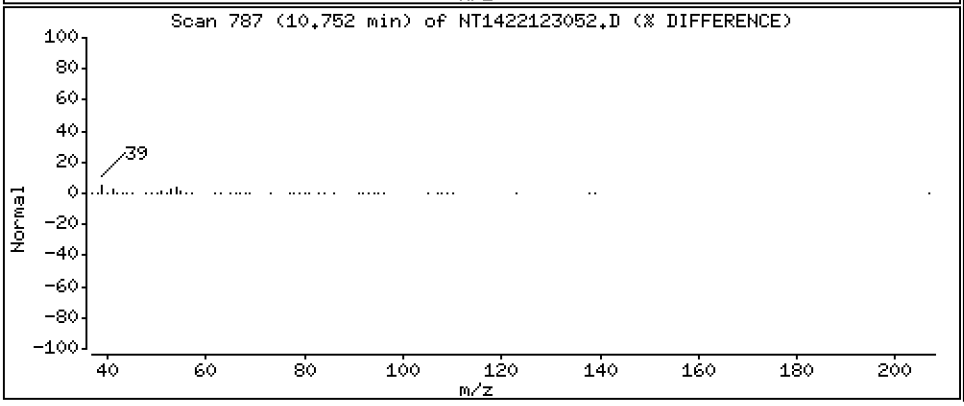












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

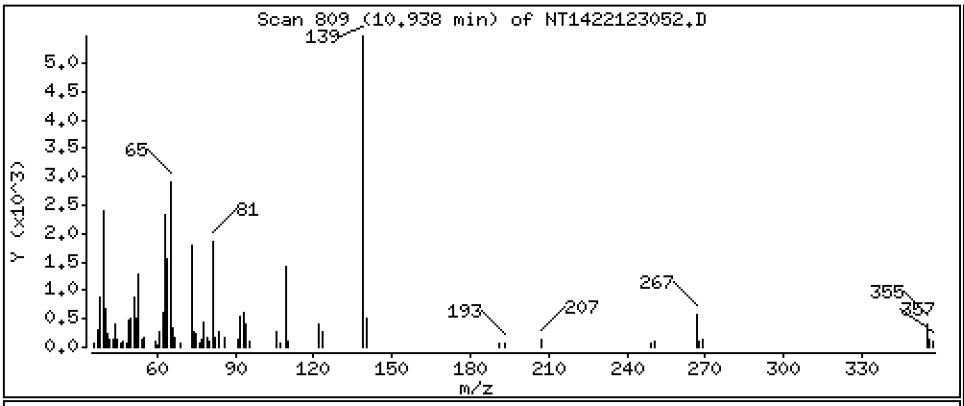
Operator: VTS

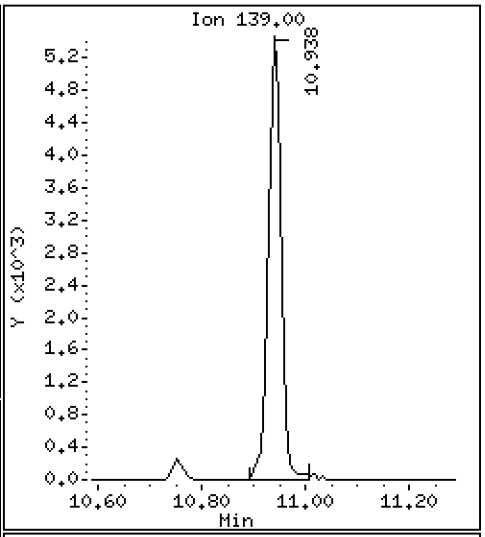
Column phase: ZB-5msi

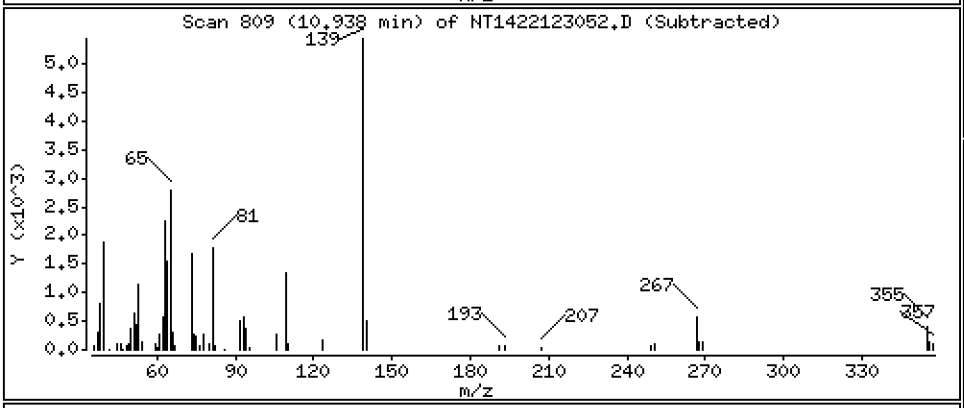
Column diameter: 0.25

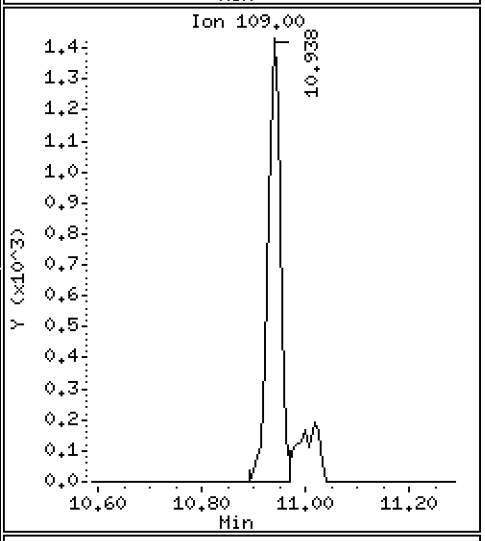
21 2-Nitrophenol

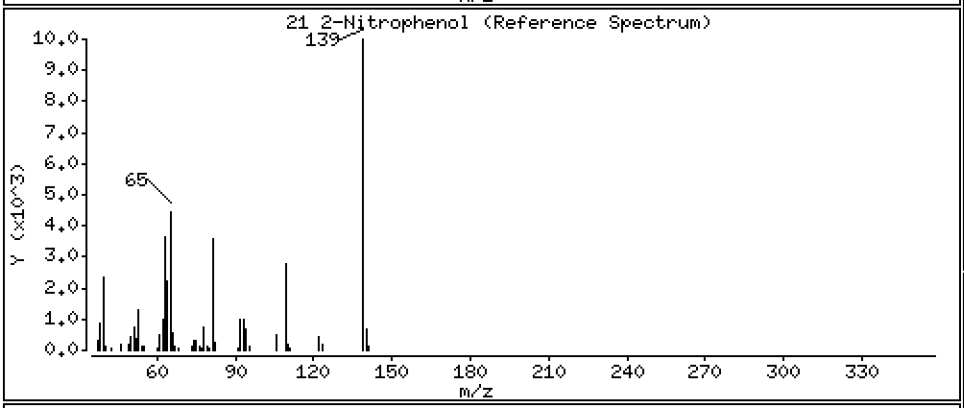
Concentration: 0.4561 ug/mL

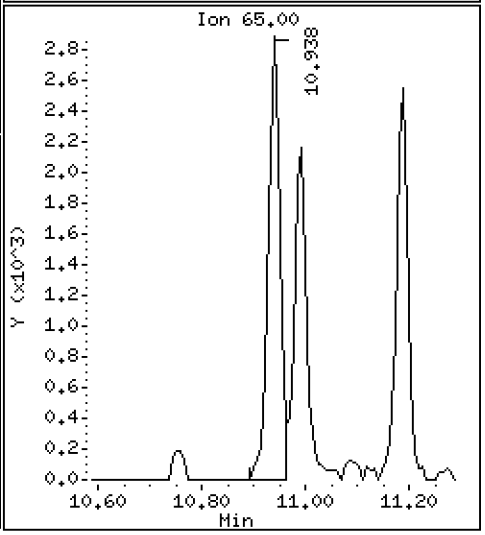


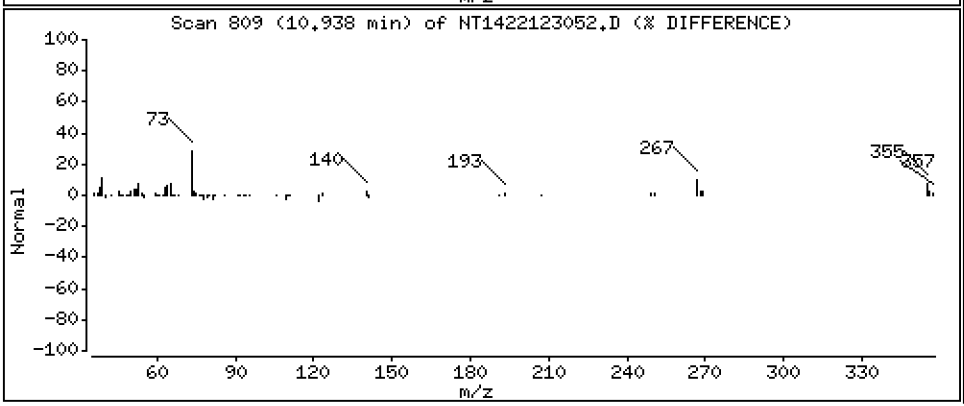












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

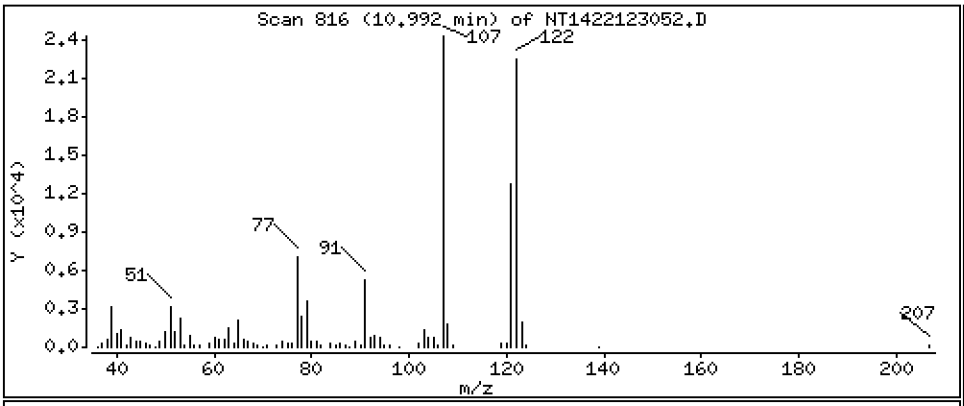
Operator: VTS

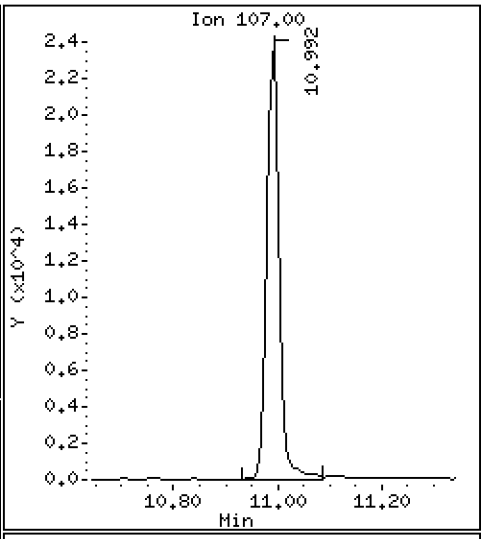
Column phase: ZB-5msi

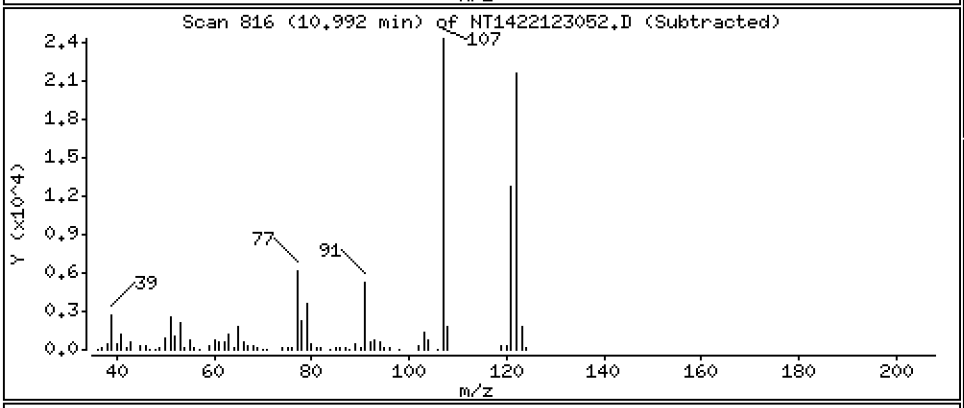
Column diameter: 0.25

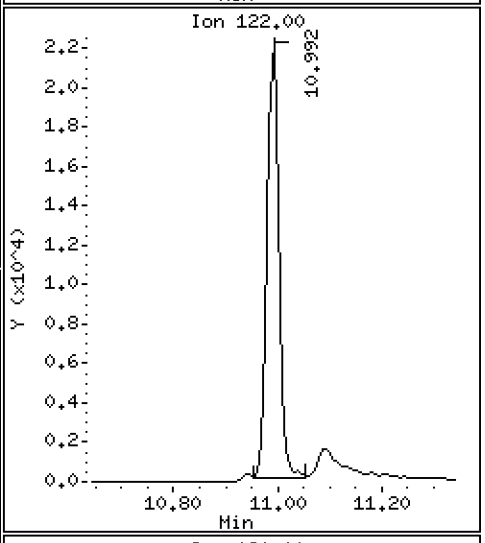
22 2,4-Dimethylphenol

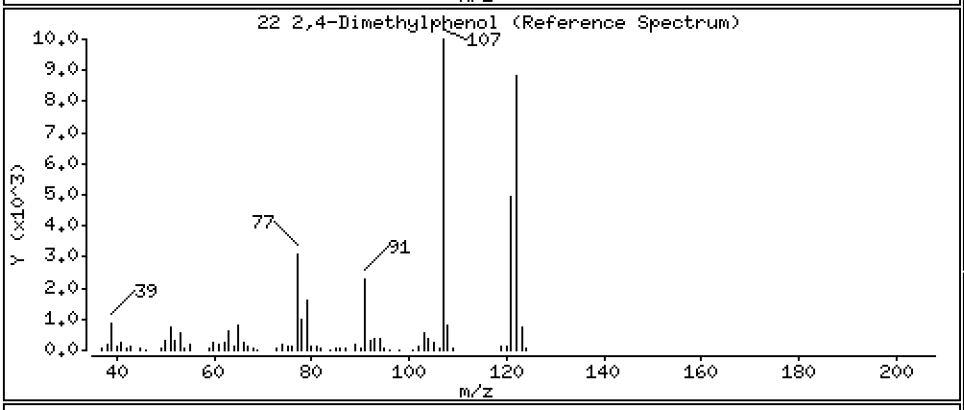
Concentration: 0.9882 ug/mL

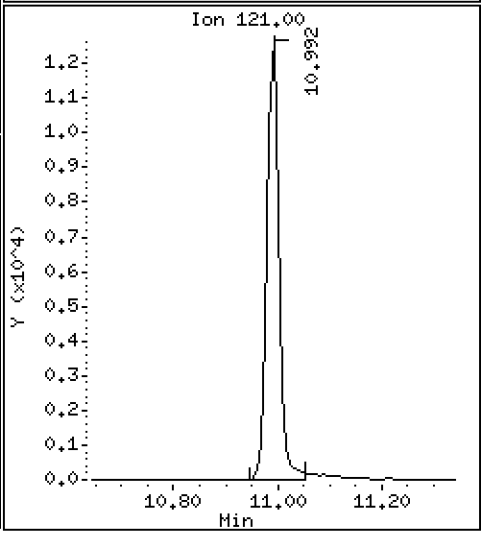


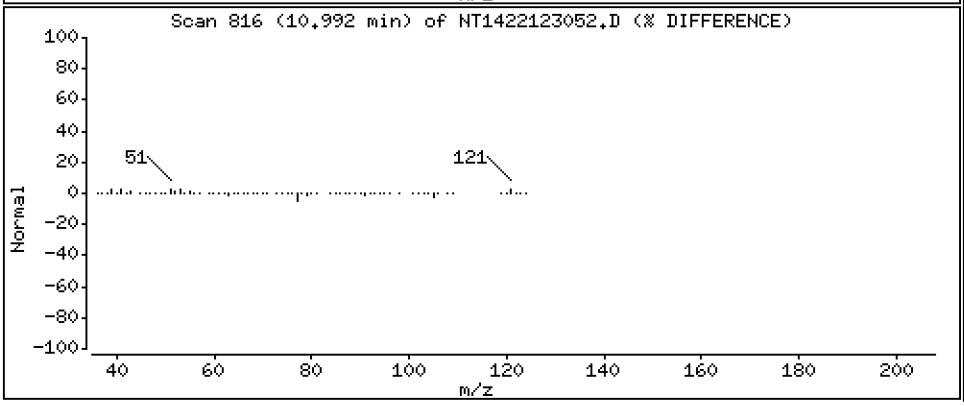












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

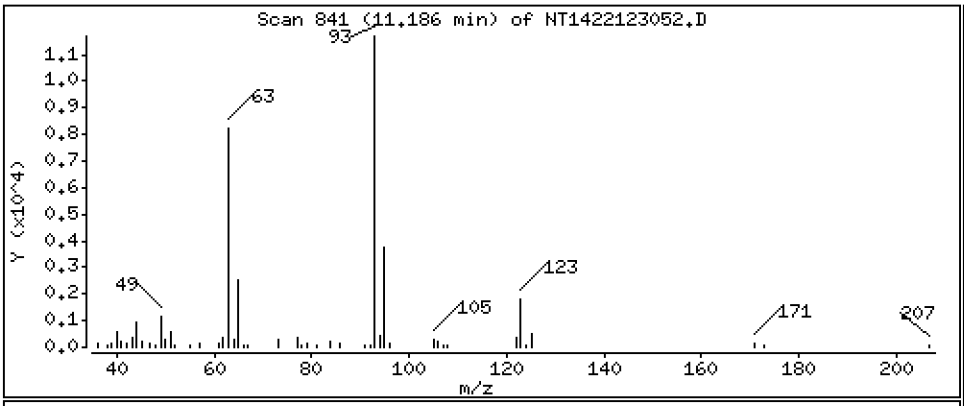
Operator: VTS

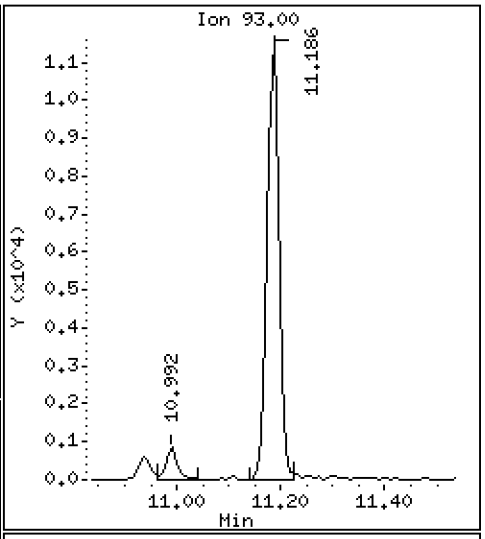
Column phase: ZB-5msi

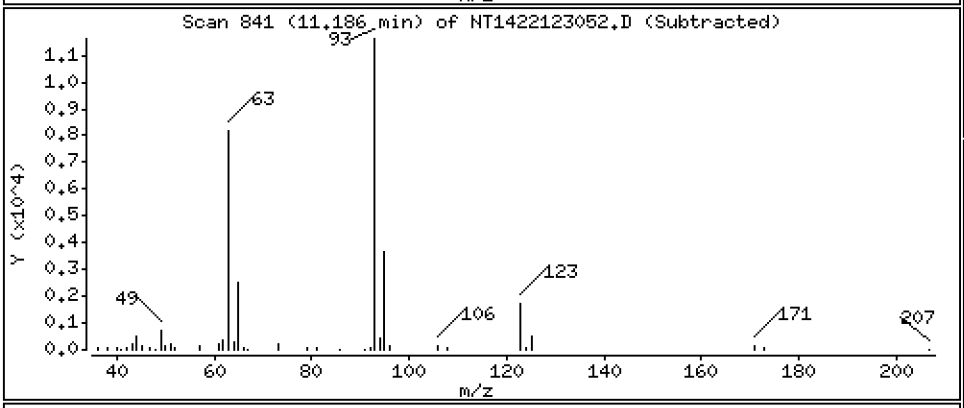
Column diameter: 0.25

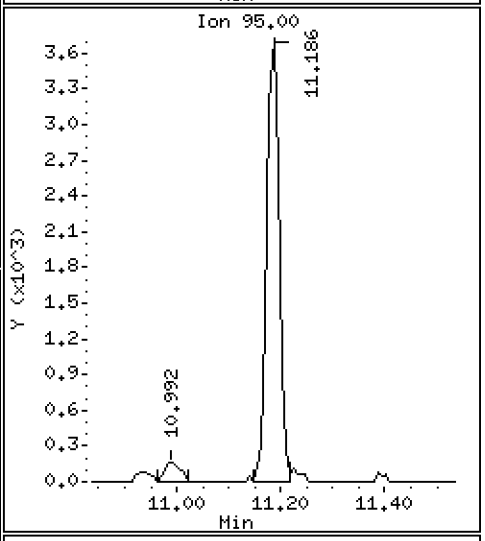
23 Bis(2-Chloroethoxy)methane

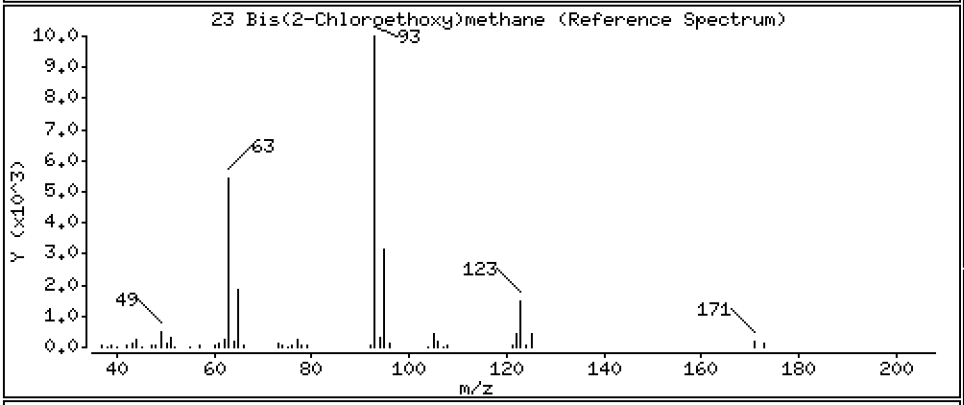
Concentration: 0.4840 ug/mL

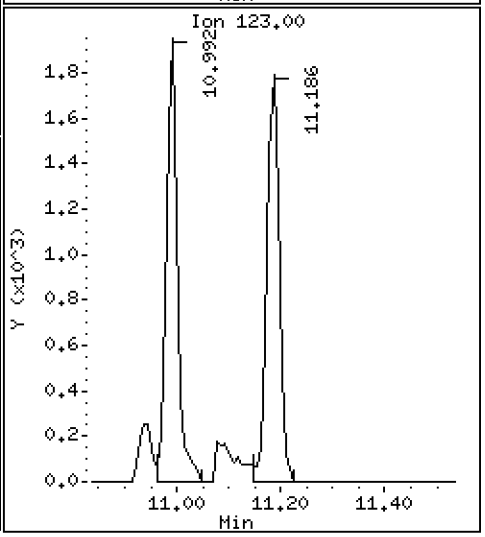


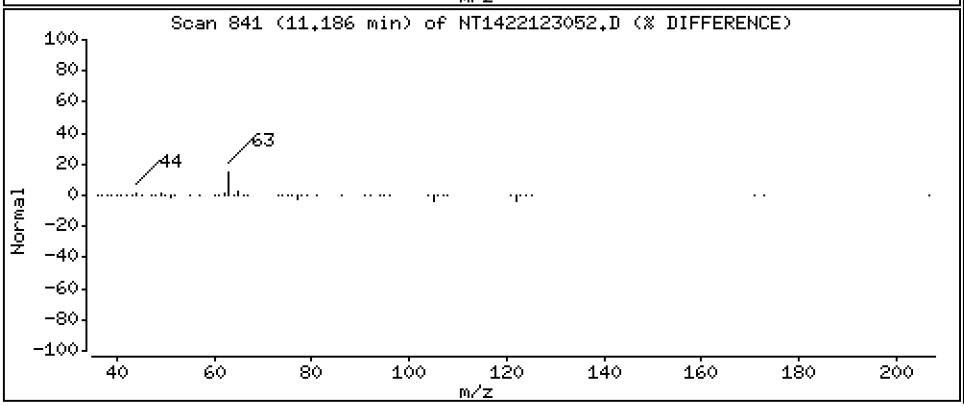












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

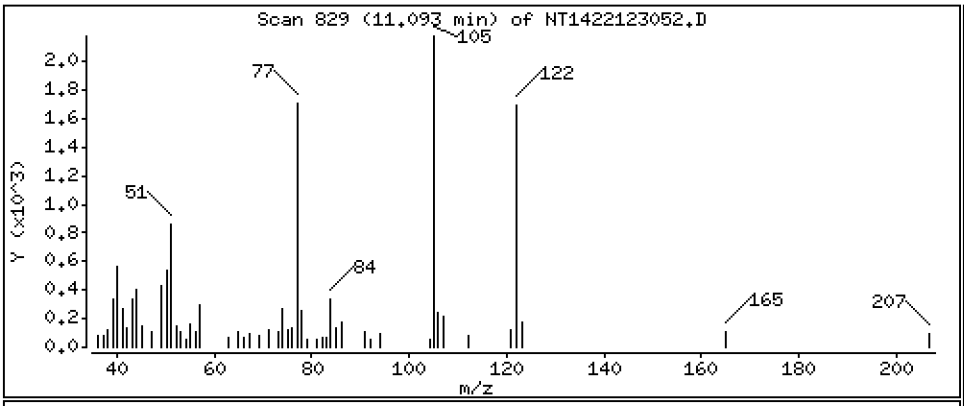
Operator: VTS

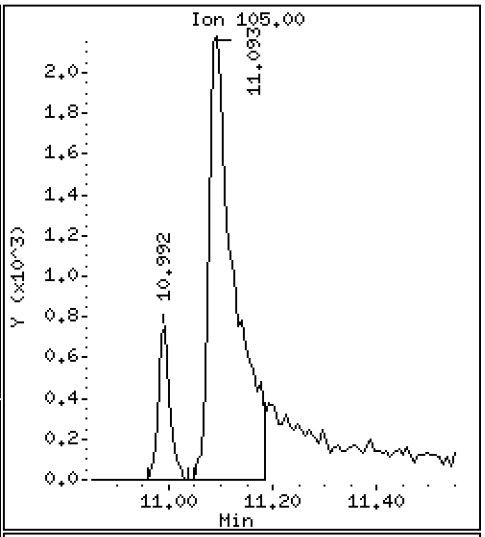
Column phase: ZB-5msi

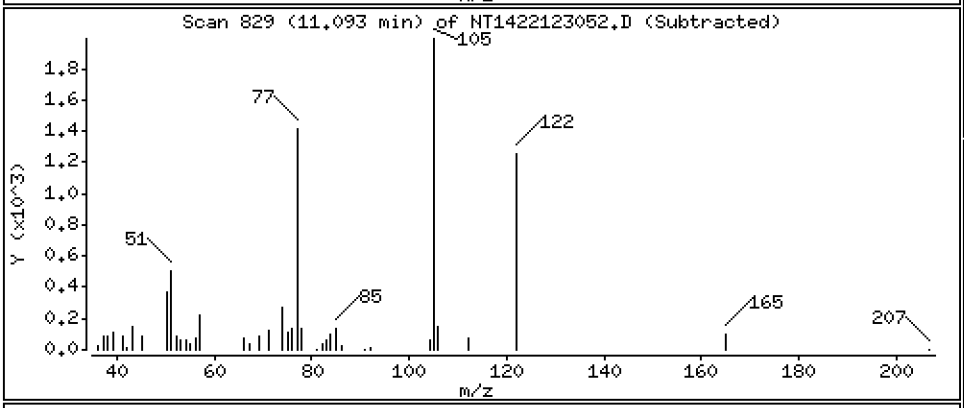
Column diameter: 0.25

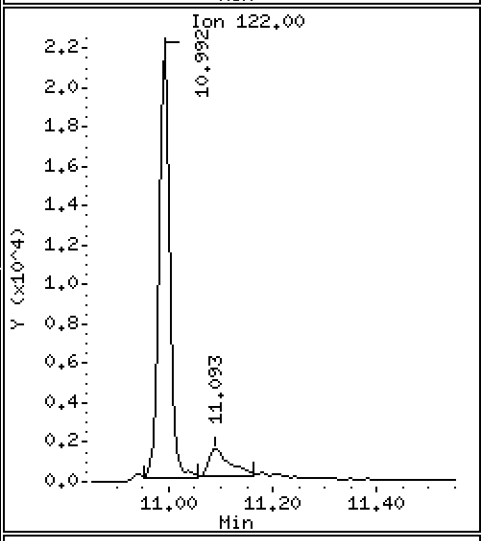
24 Benzoic acid

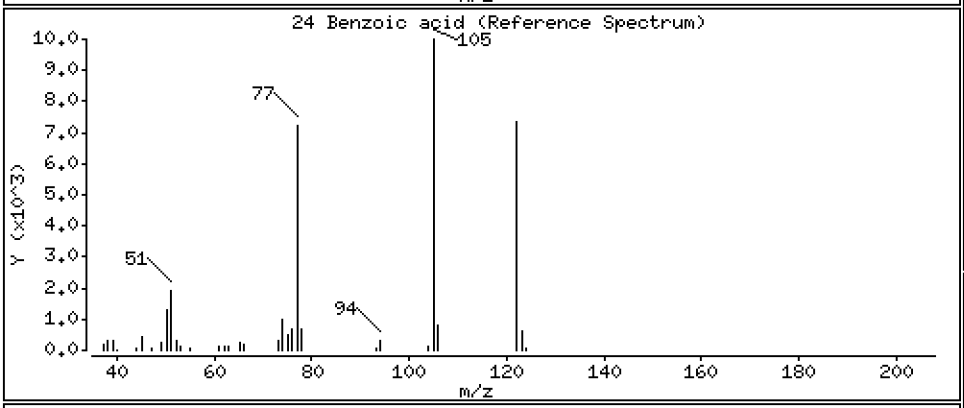
Concentration: 0.3306 ug/mL

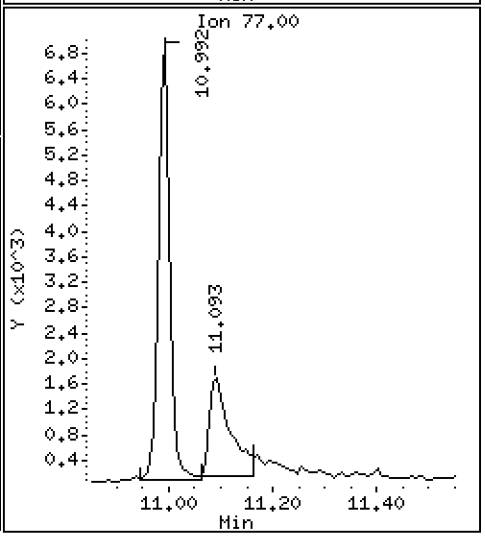


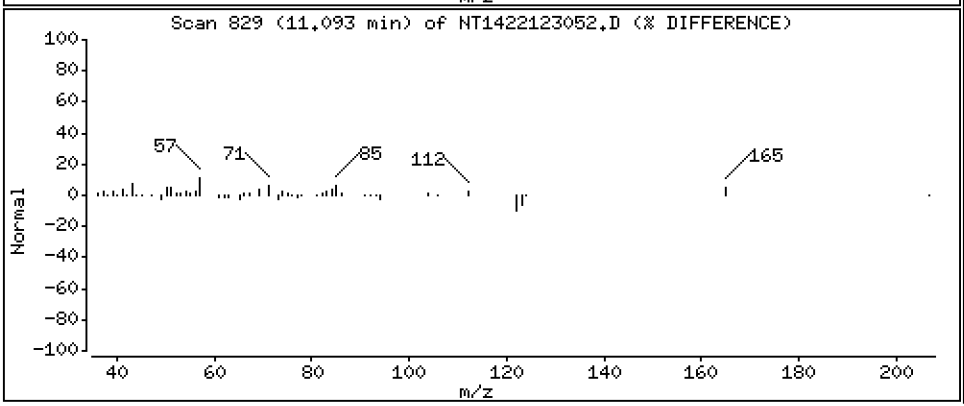












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

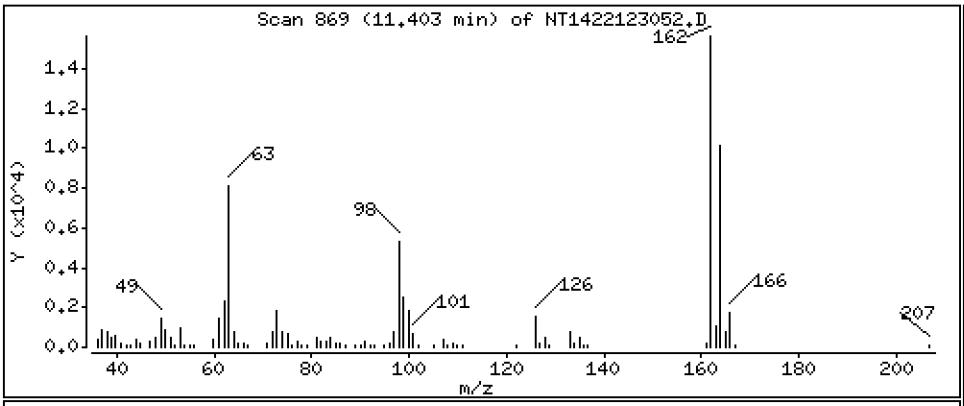
Operator: VTS

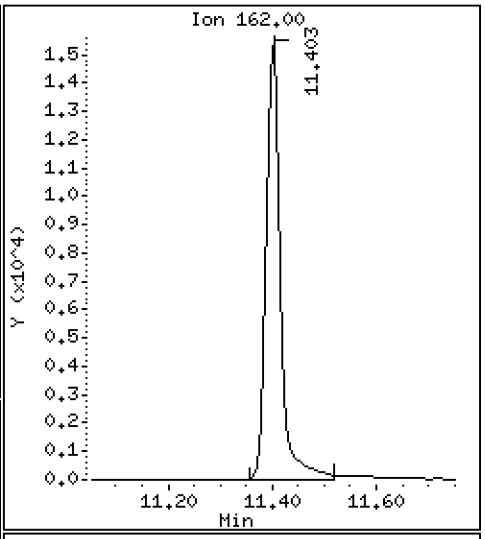
Column phase: ZB-5msi

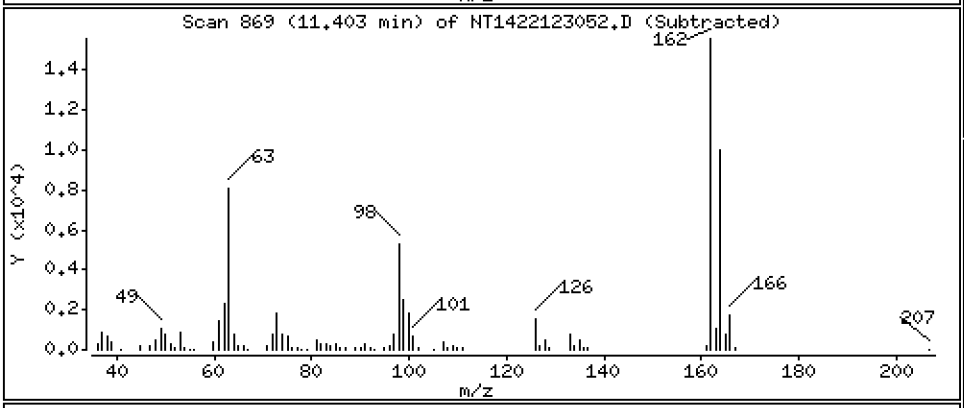
Column diameter: 0.25

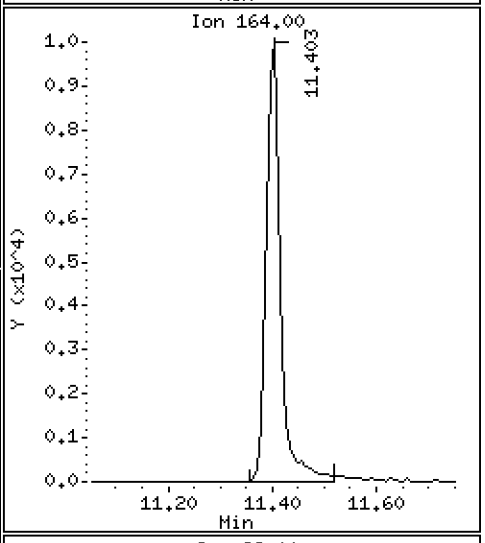
25 2,4-Dichlorophenol

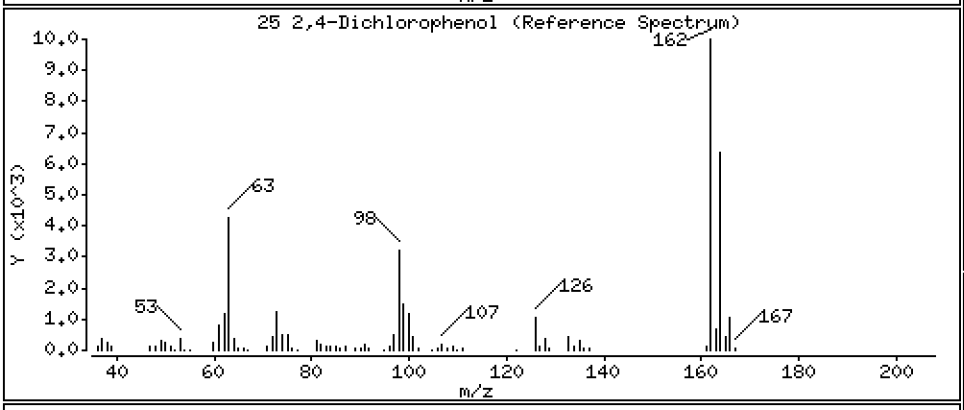
Concentration: 0.9922 ug/mL

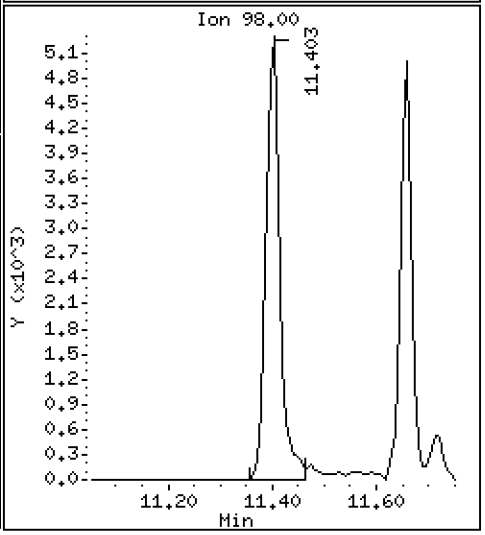


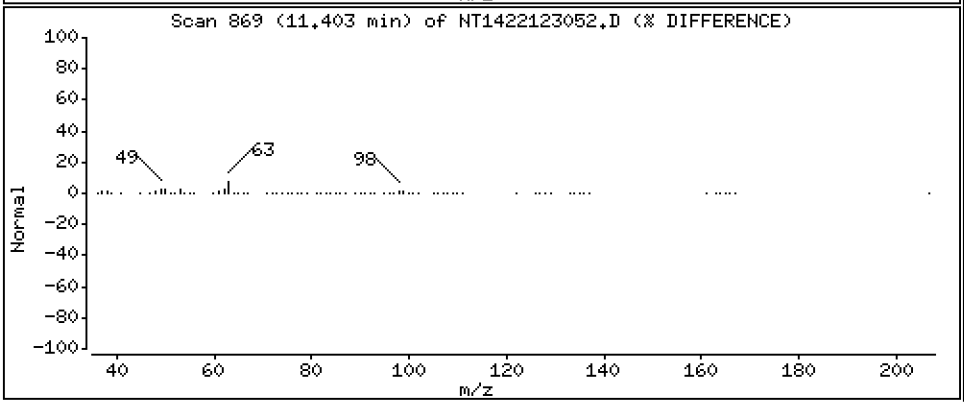












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

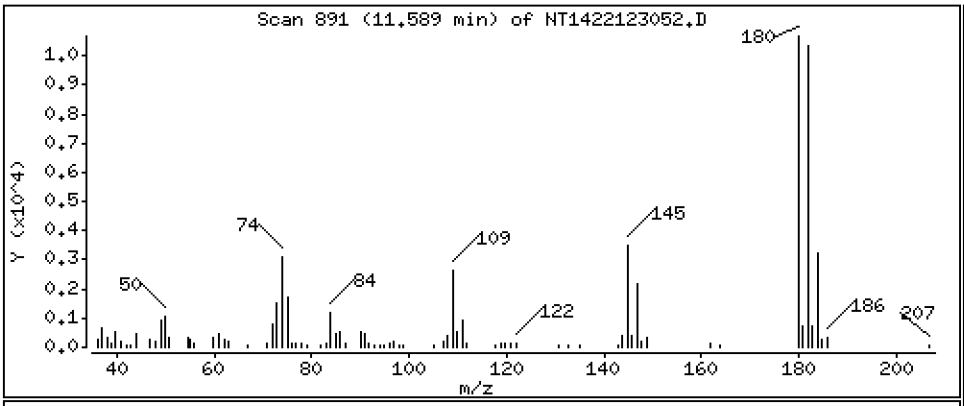
Operator: VTS

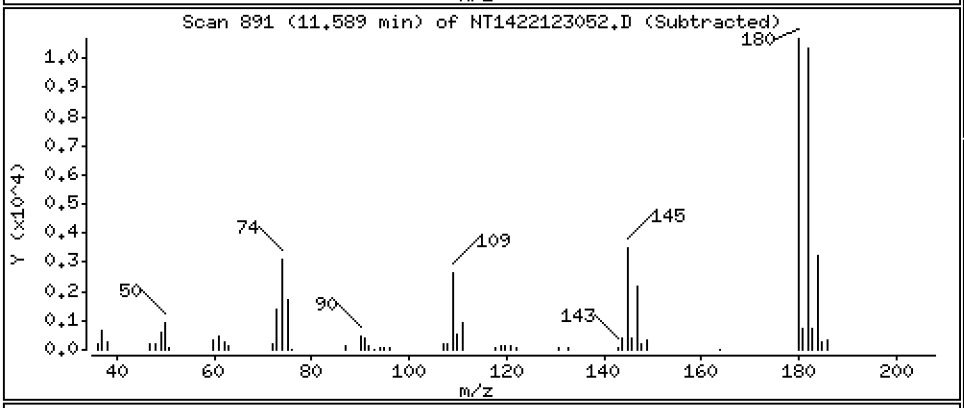
Column phase: ZB-5msi

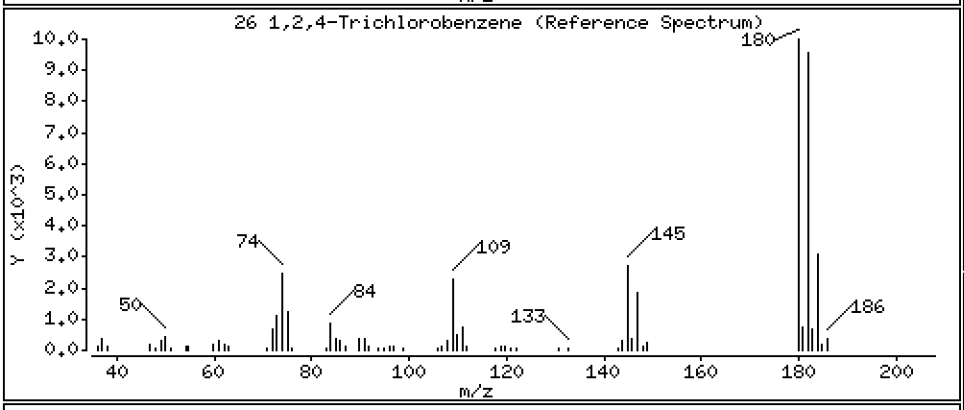
Column diameter: 0.25

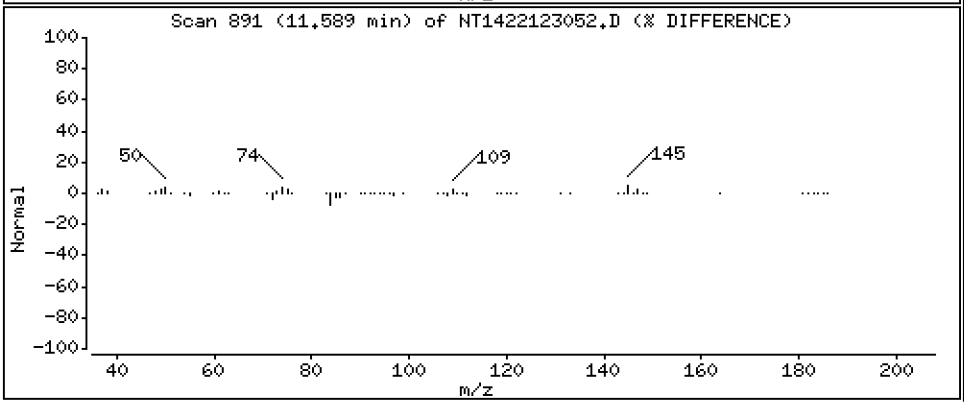
26 1,2,4-Trichlorobenzene

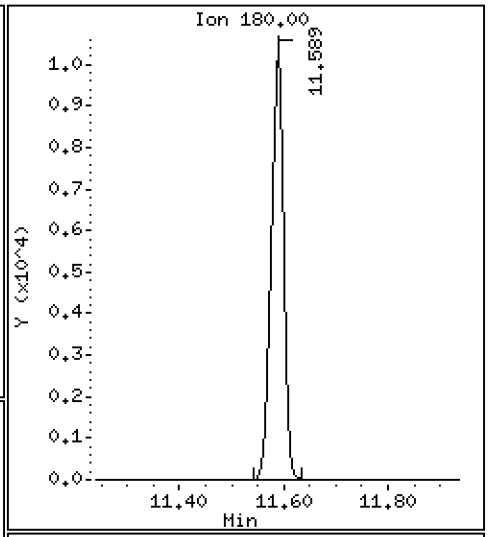
Concentration: 0.4816 ug/mL

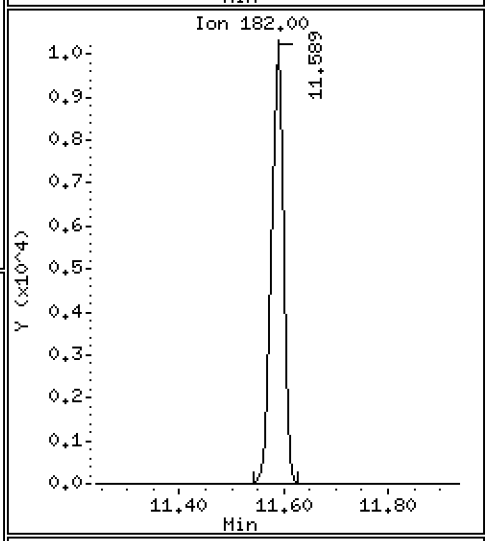


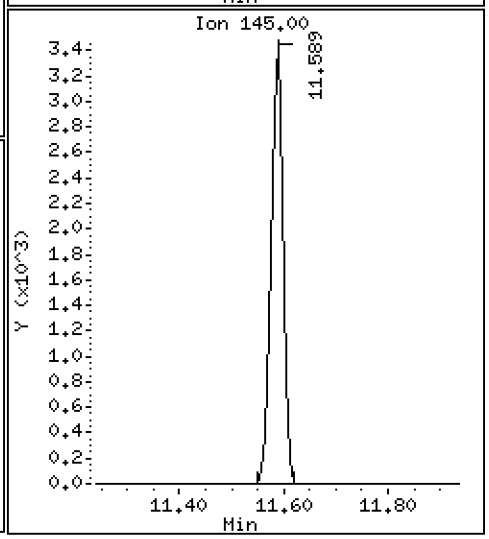












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

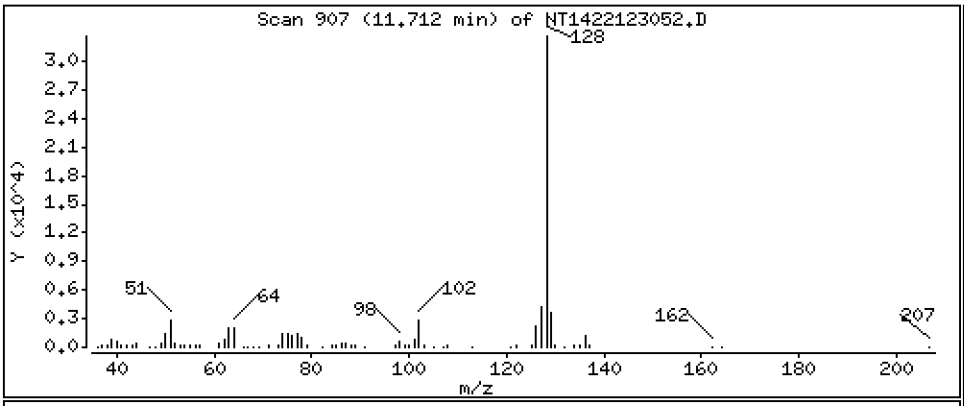
Operator: VTS

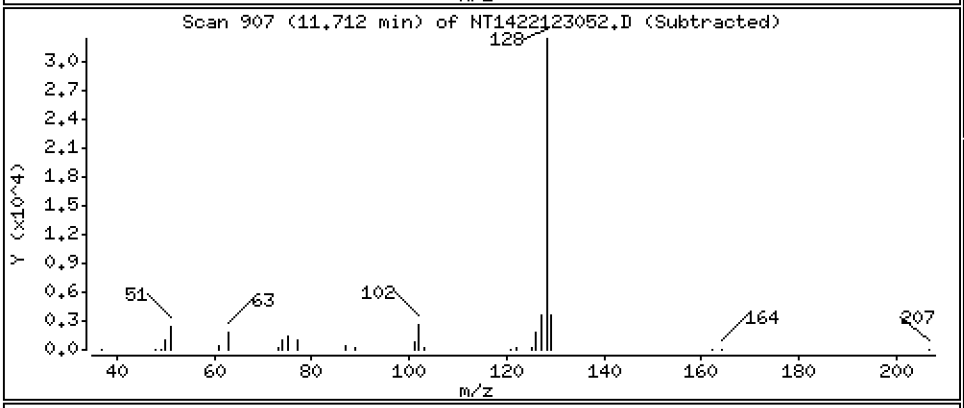
Column phase: ZB-5msi

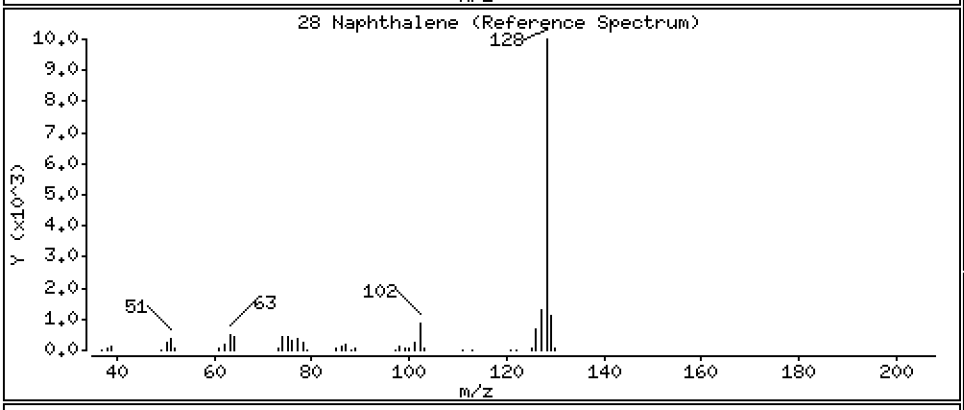
Column diameter: 0.25

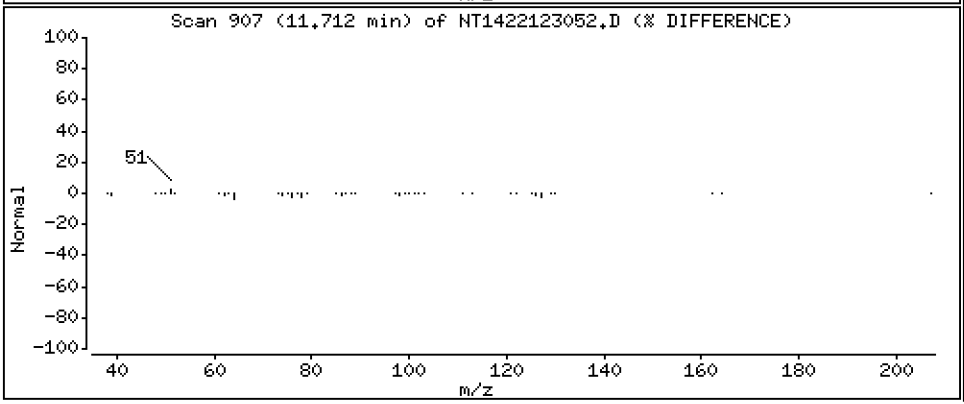
28 Naphthalene

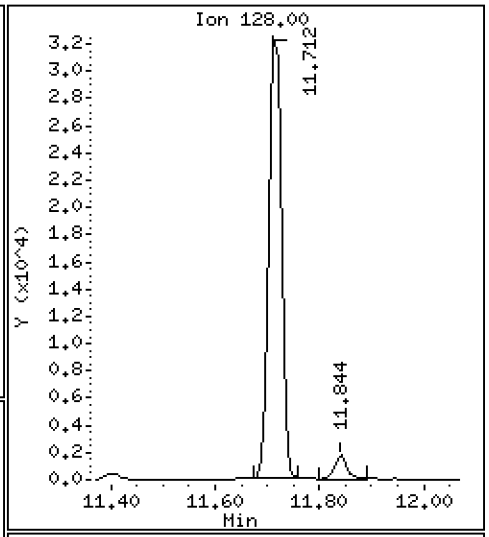
Concentration: 0.4844 ug/mL

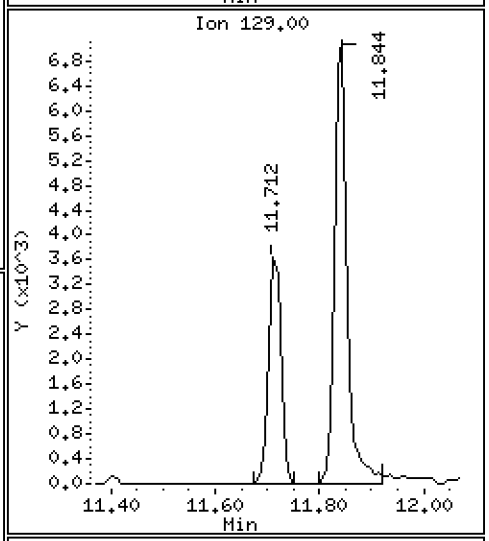


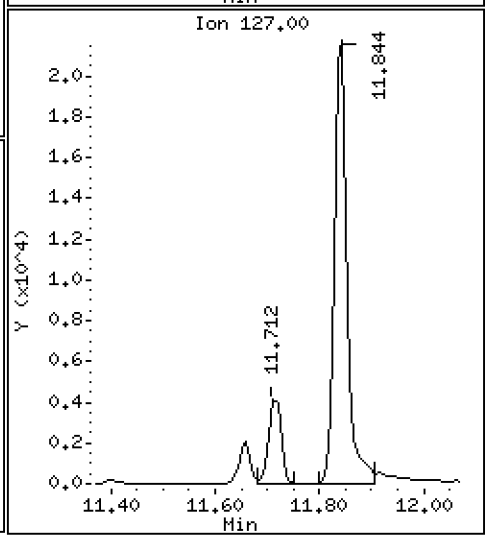












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123052.D

Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

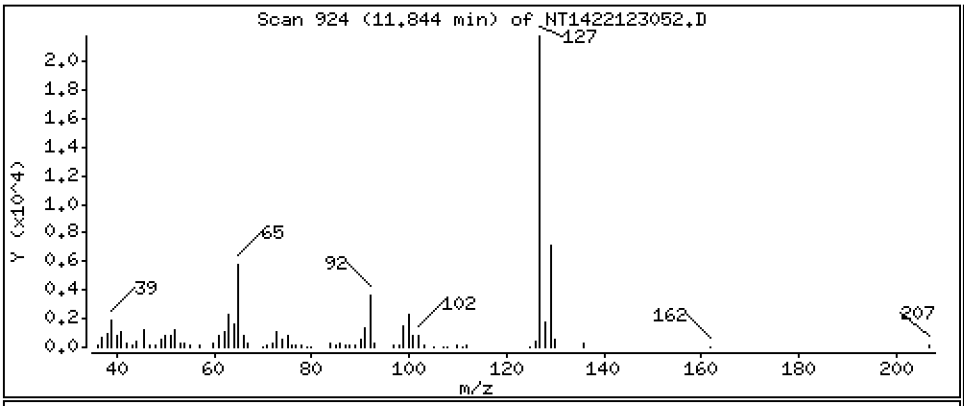
Operator: VTS

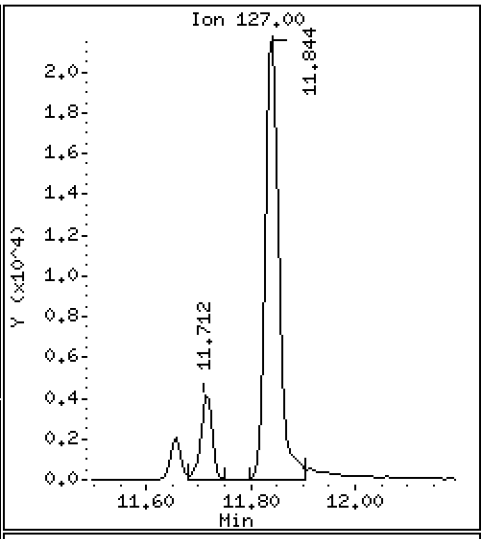
Column phase: ZB-5msi

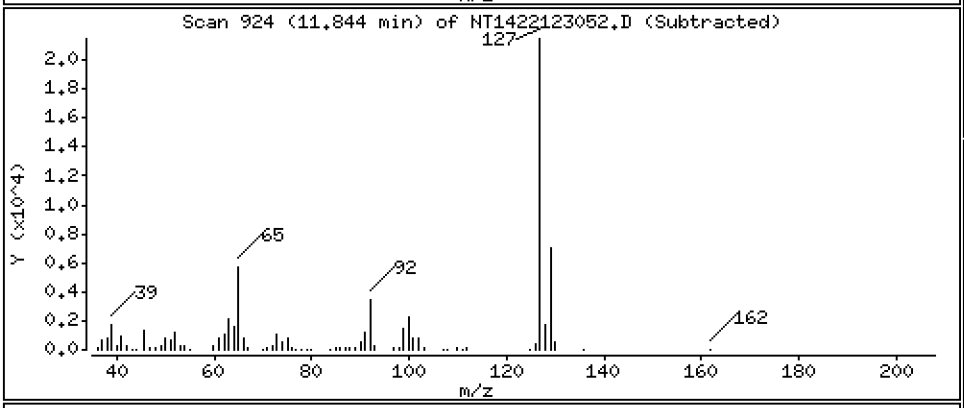
Column diameter: 0.25

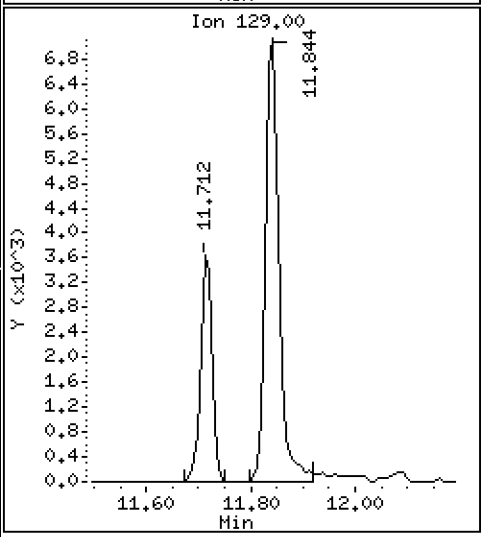
29 4-Chloroaniline

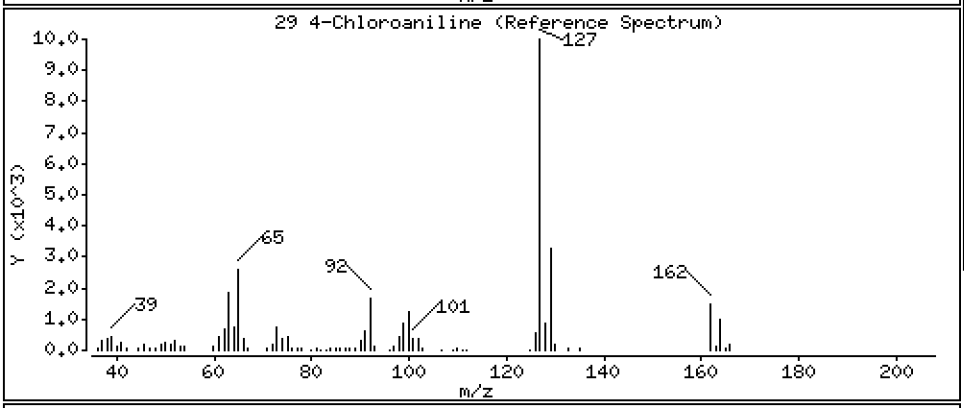
Concentration: 0.8698 ug/mL

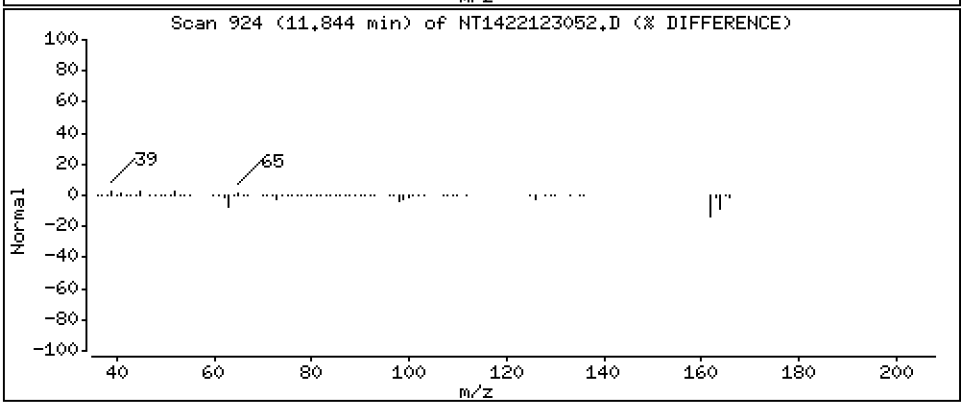












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

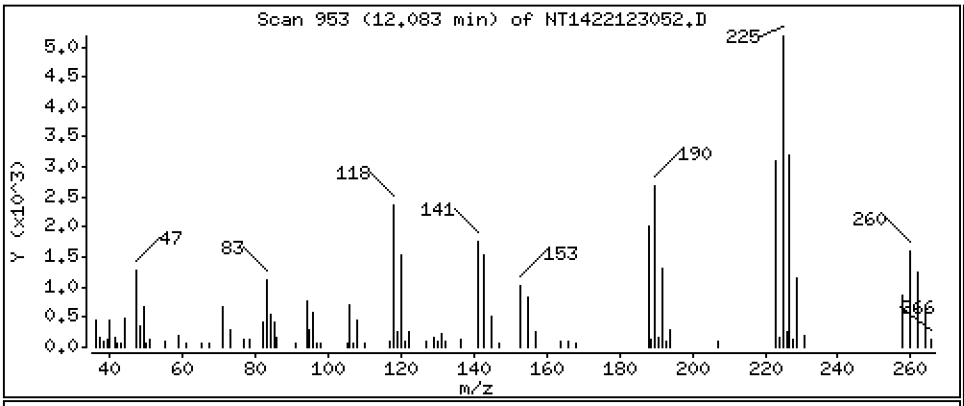
Operator: VTS

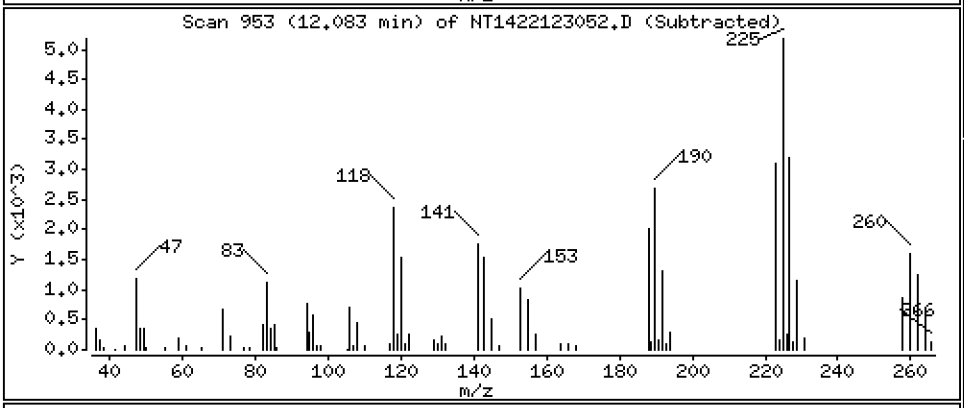
Column phase: ZB-5msi

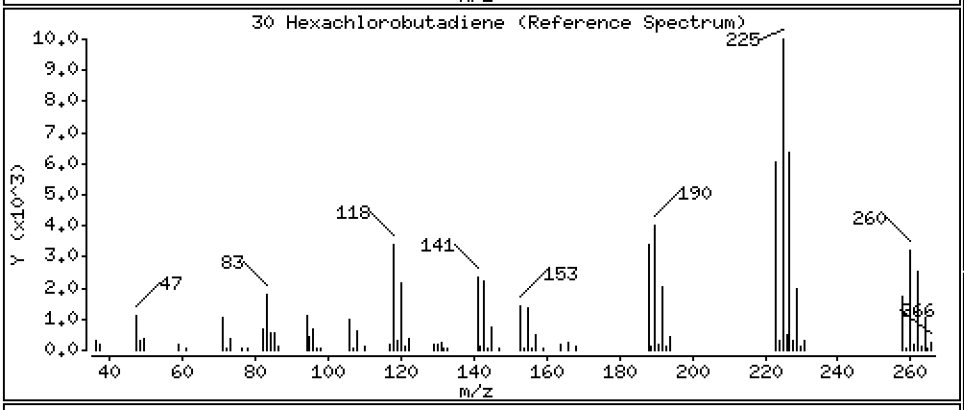
Column diameter: 0.25

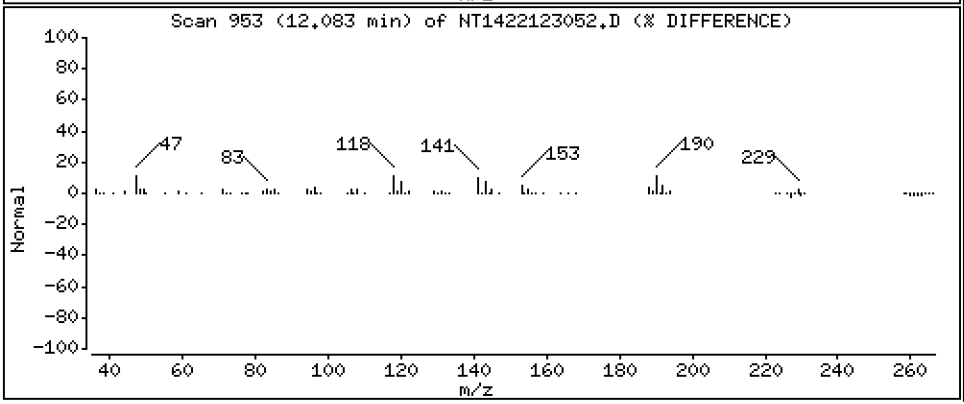
30 Hexachlorobutadiene

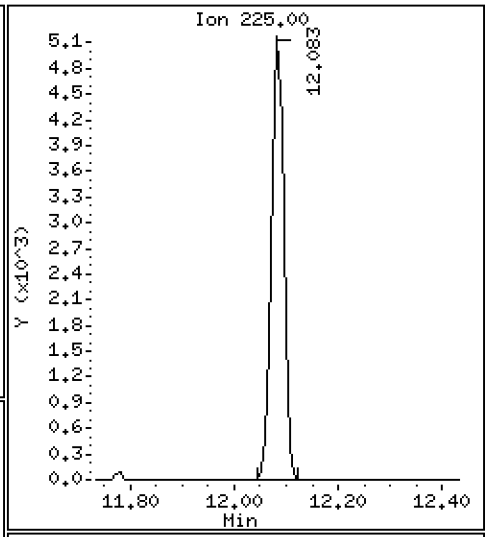
Concentration: 0.4710 ug/mL

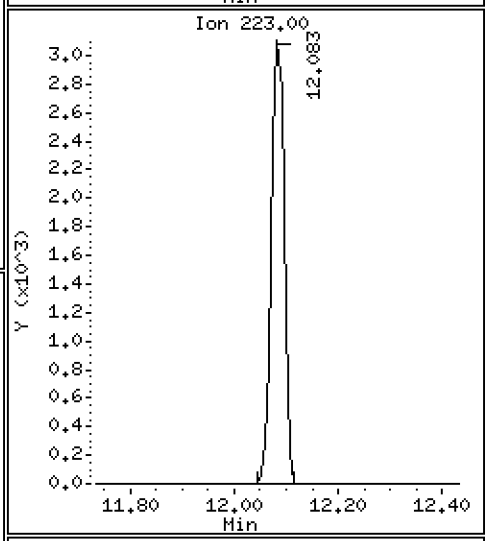


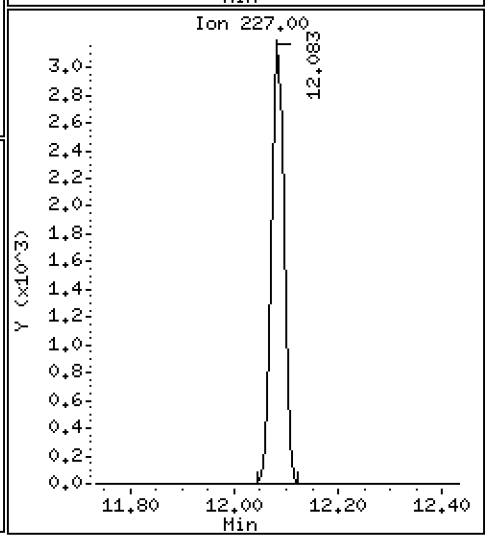












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

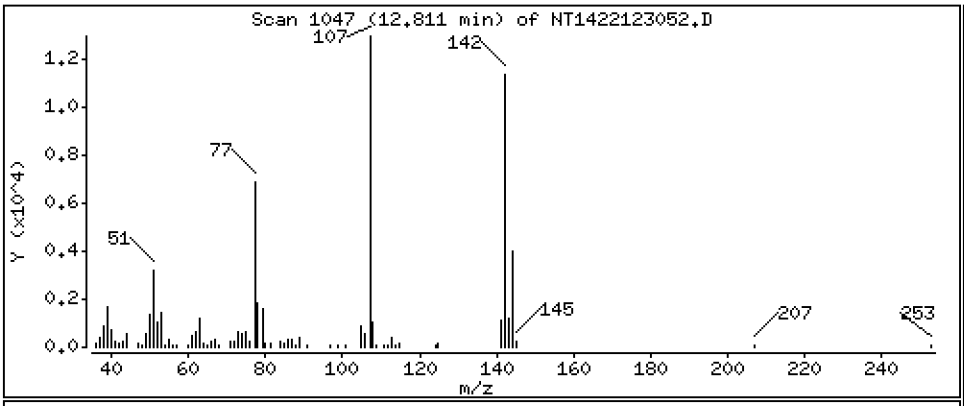
Operator: VTS

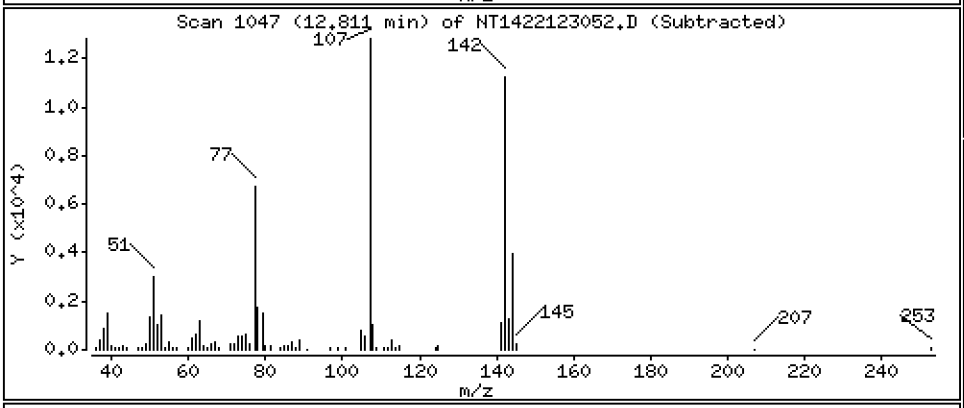
Column phase: ZB-5msi

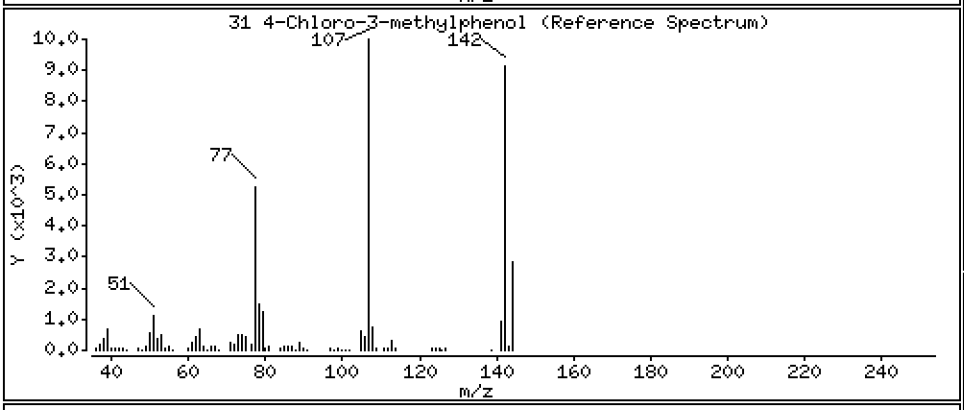
Column diameter: 0.25

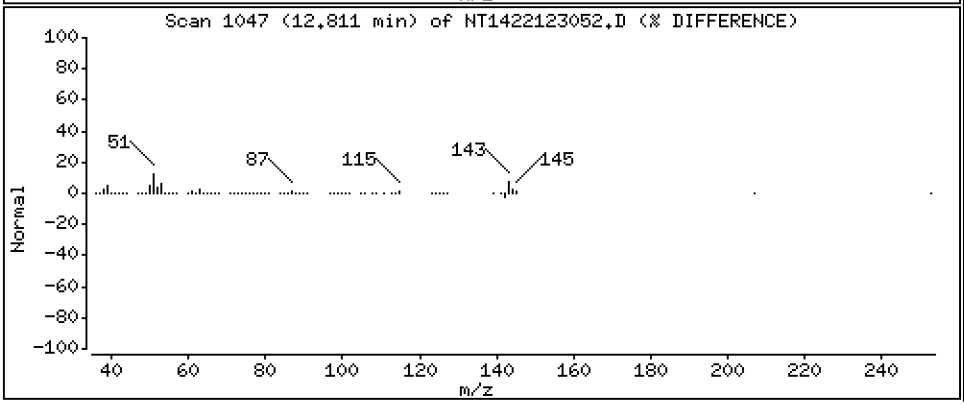
31 4-Chloro-3-methylphenol

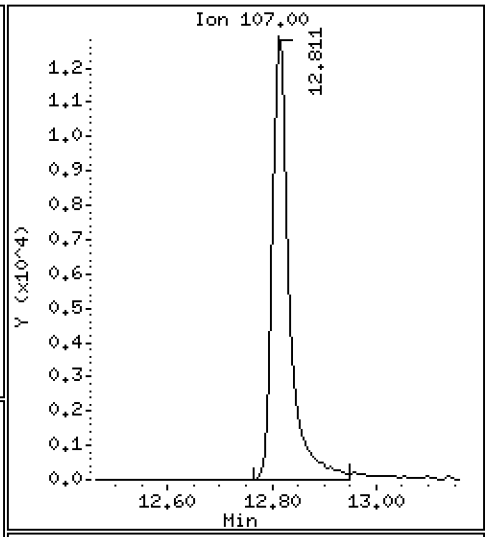
Concentration: 0.9524 ug/mL

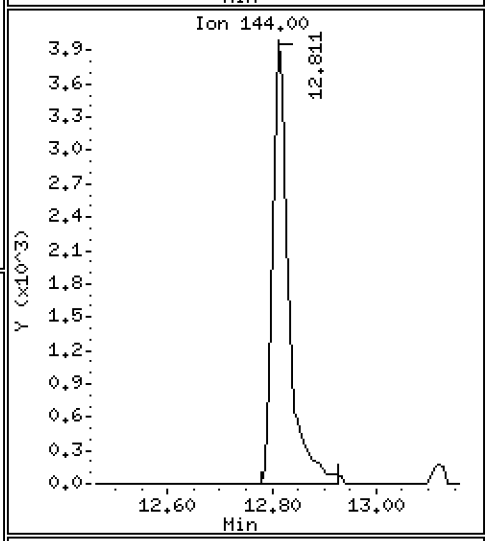


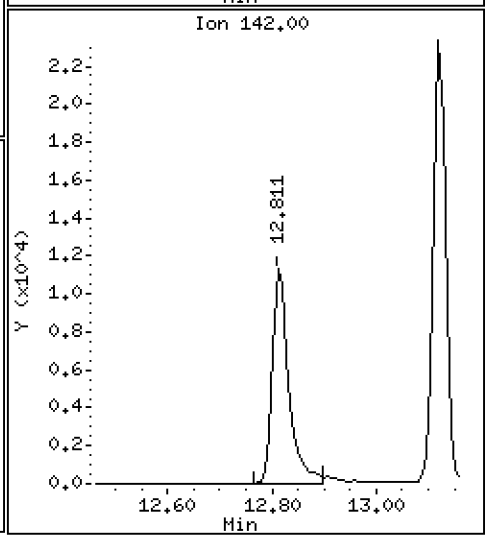












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

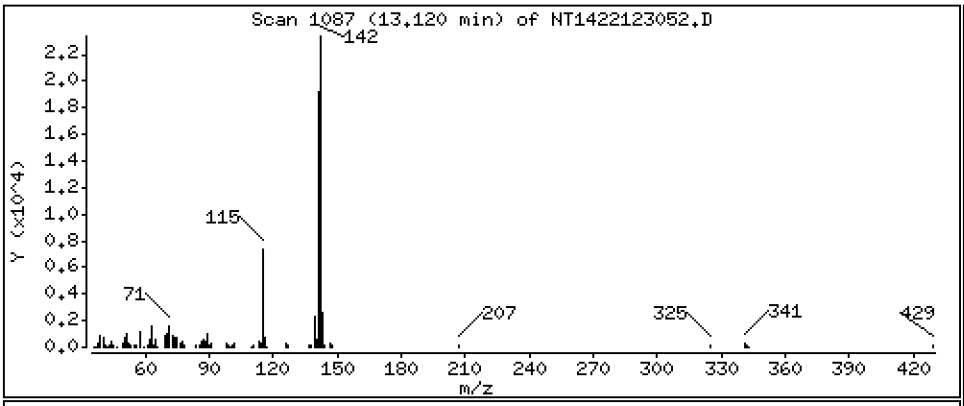
Operator: VTS

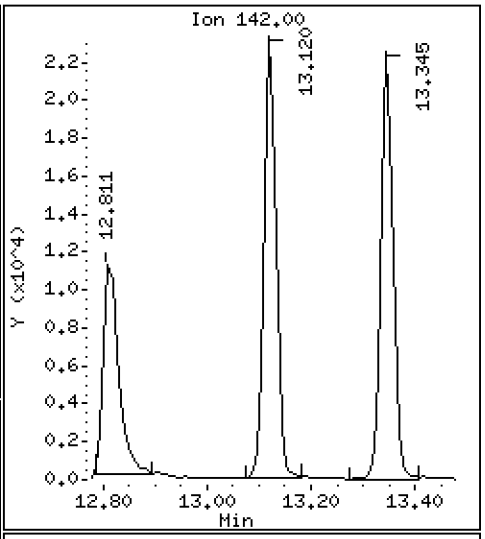
Column phase: ZB-5msi

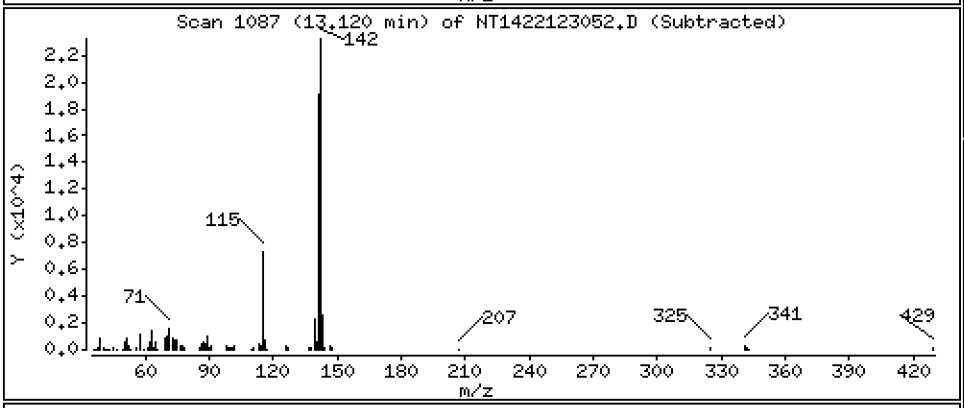
Column diameter: 0.25

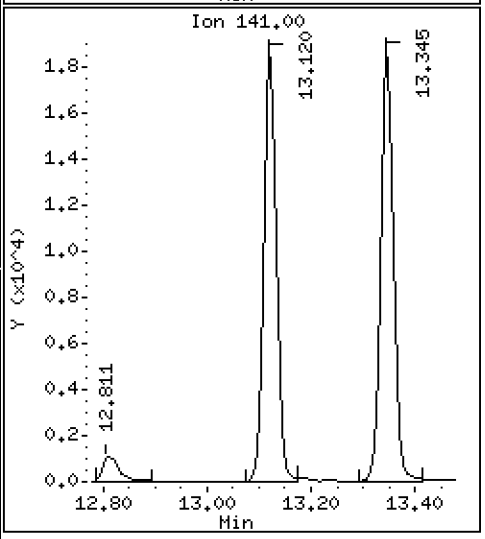
32 2-Methylnaphthalene

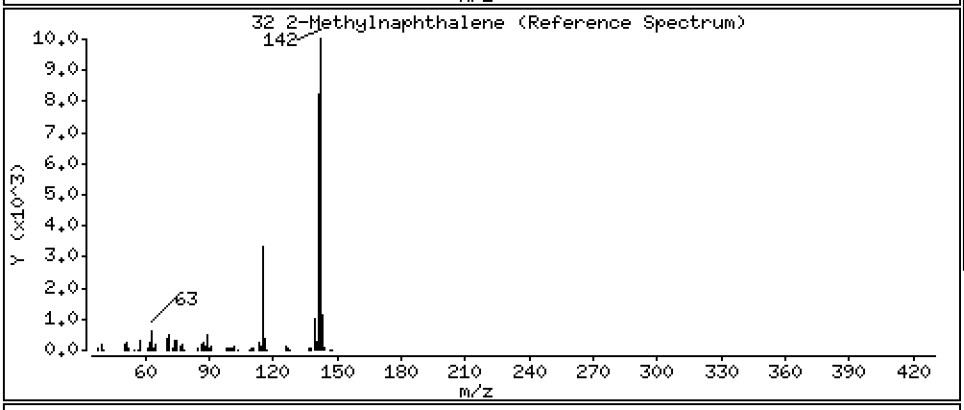
Concentration: 0.4676 ug/mL

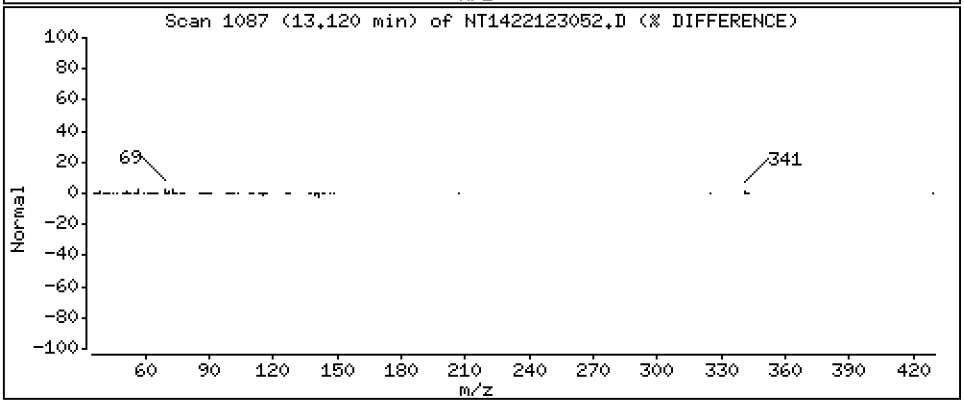












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123052.D

Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

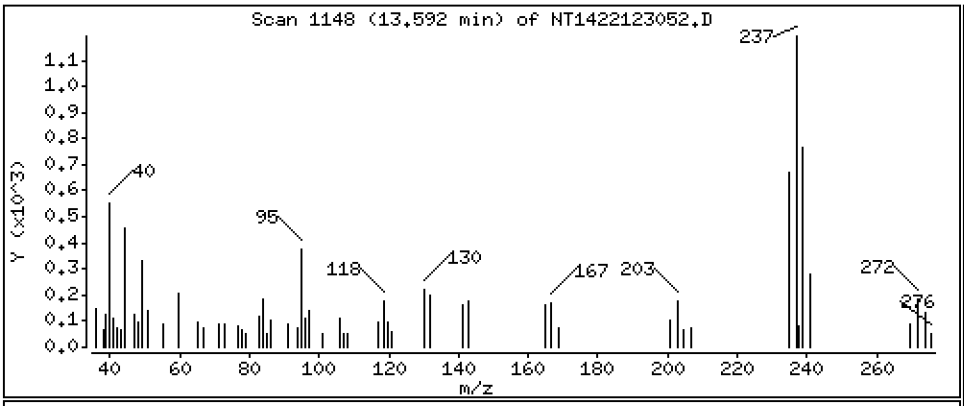
Operator: VTS

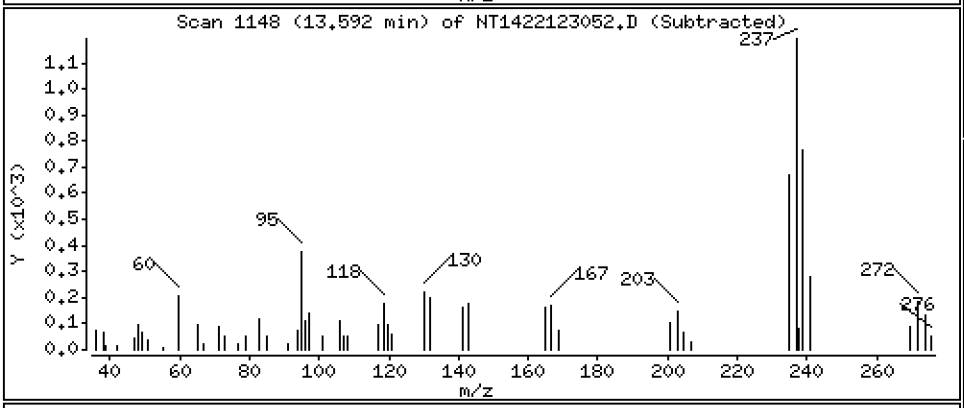
Column phase: ZB-5msi

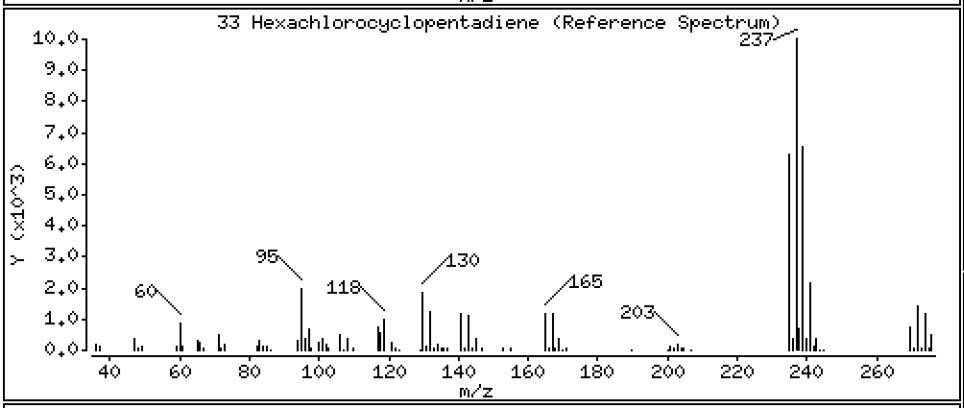
Column diameter: 0.25

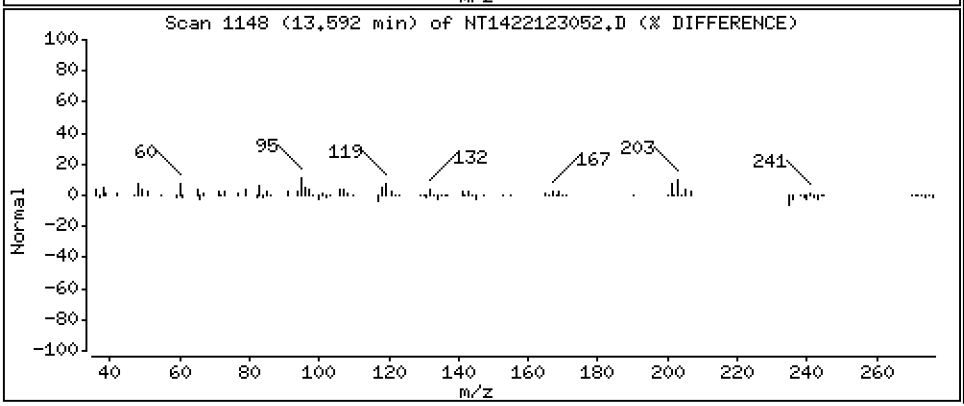
33 Hexachlorocyclopentadiene

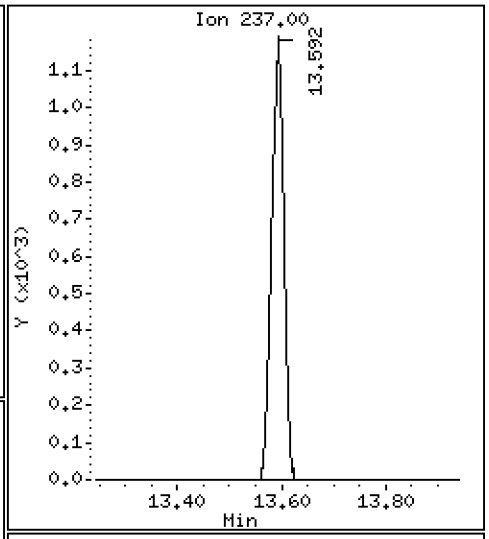
Concentration: 0.1074 ug/mL

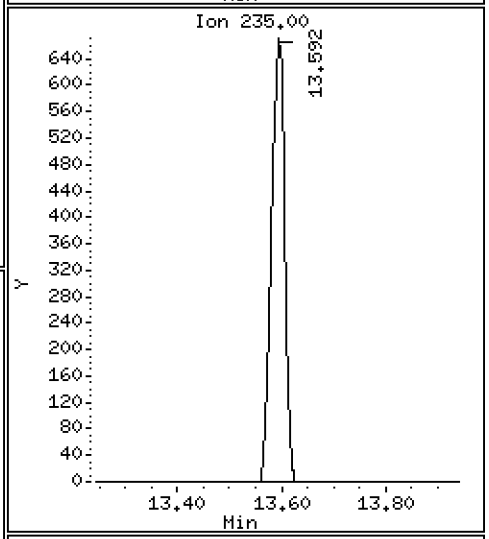


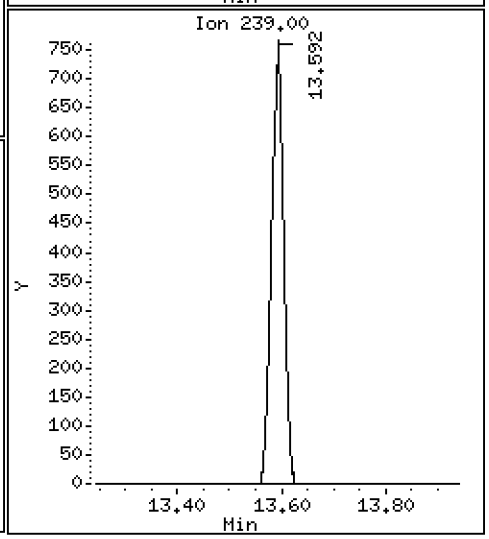












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

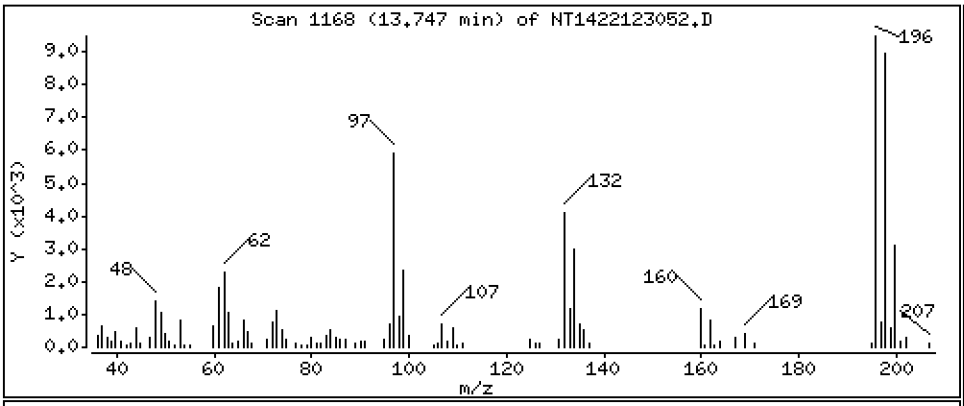
Operator: VTS

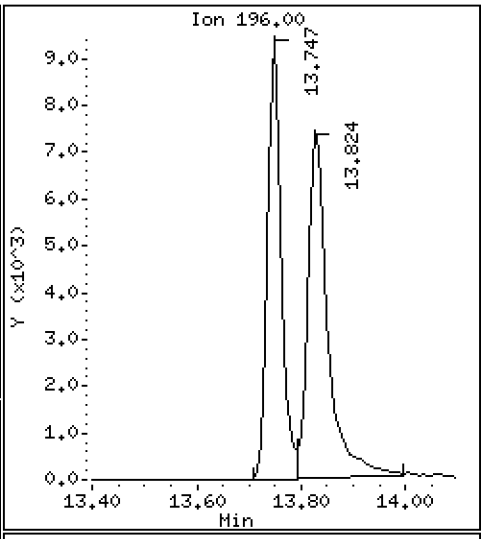
Column phase: ZB-5msi

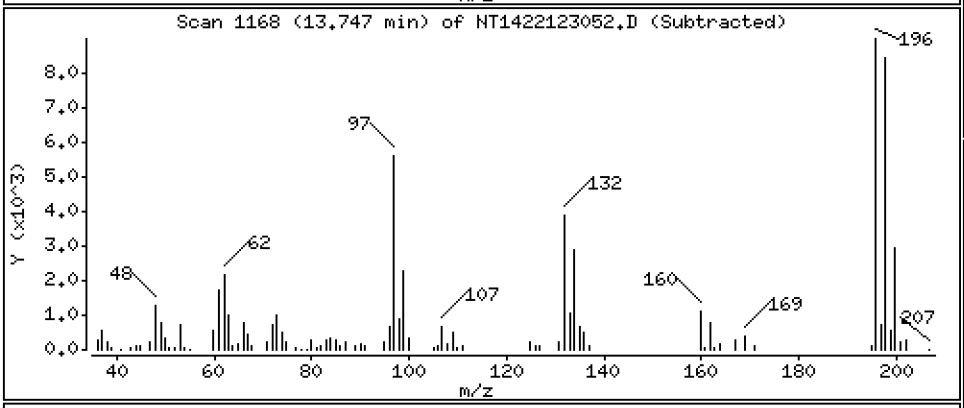
Column diameter: 0.25

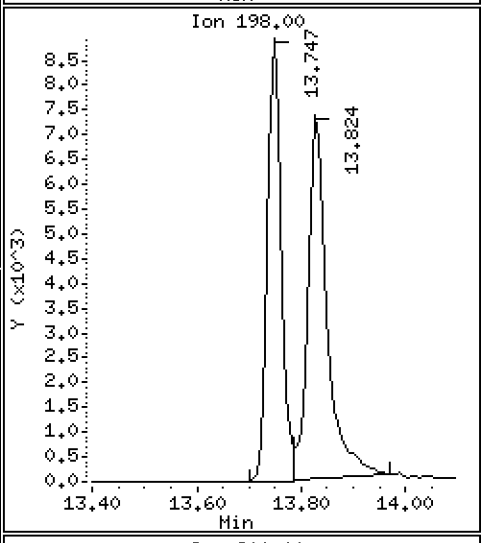
34 2,4,6-Trichlorophenol

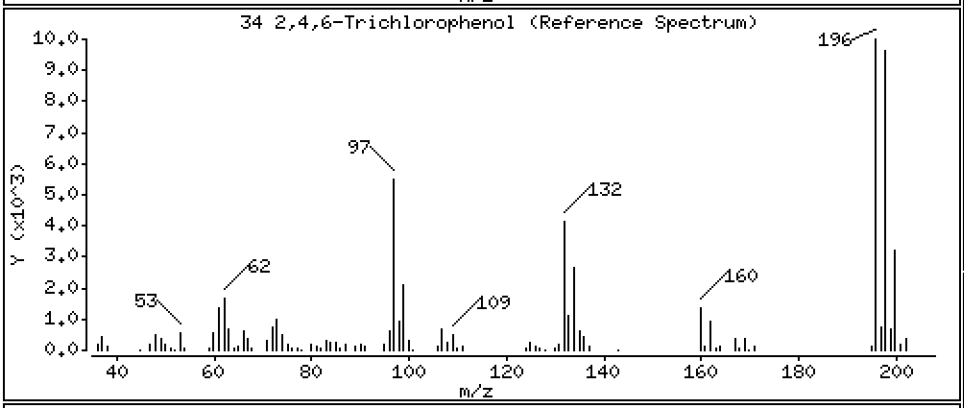
Concentration: 0.8903 ug/mL

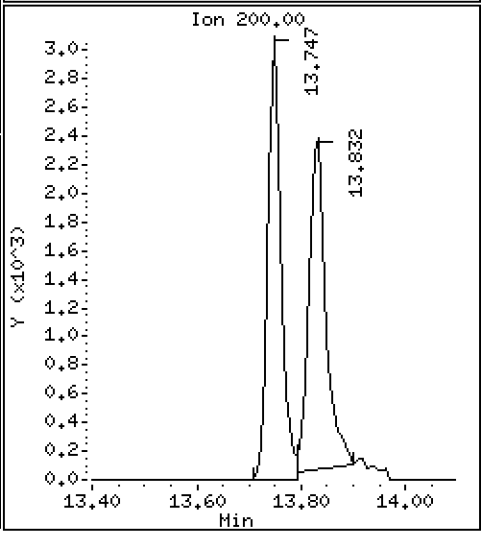


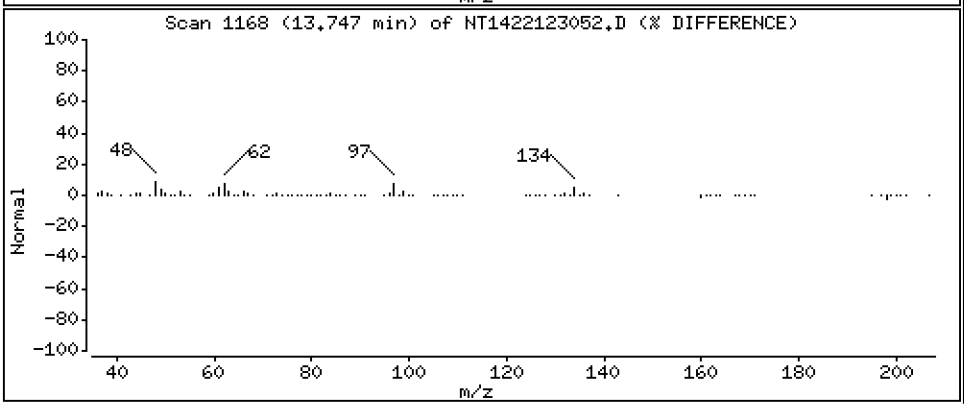












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

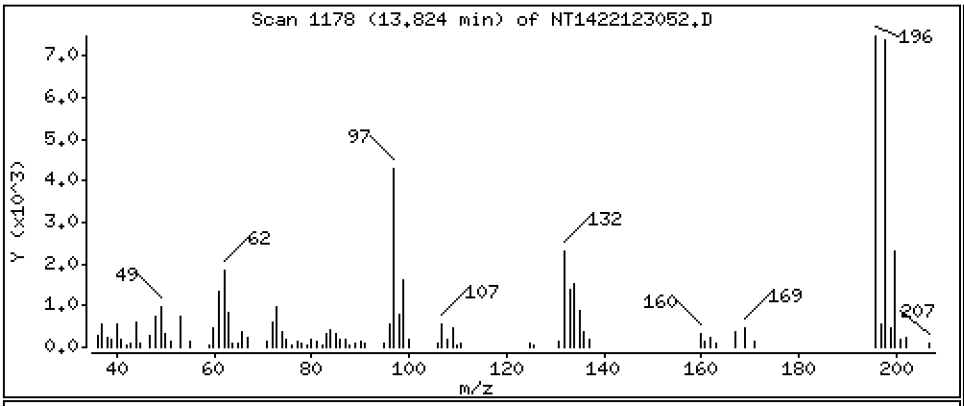
Operator: VTS

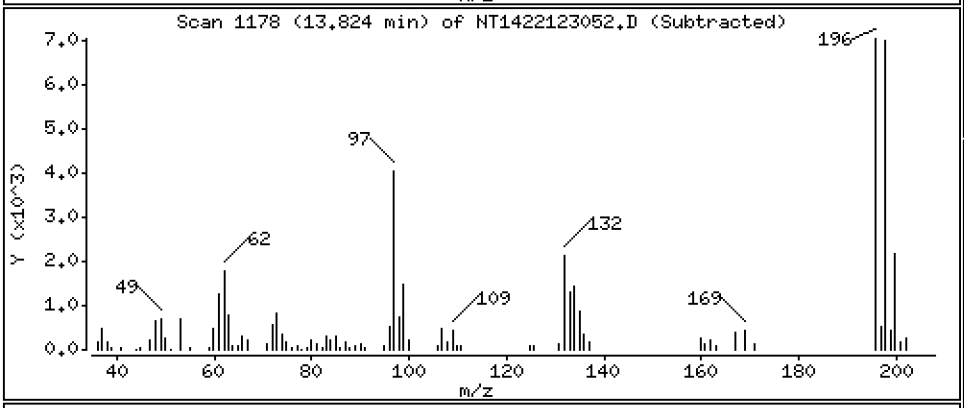
Column phase: ZB-5msi

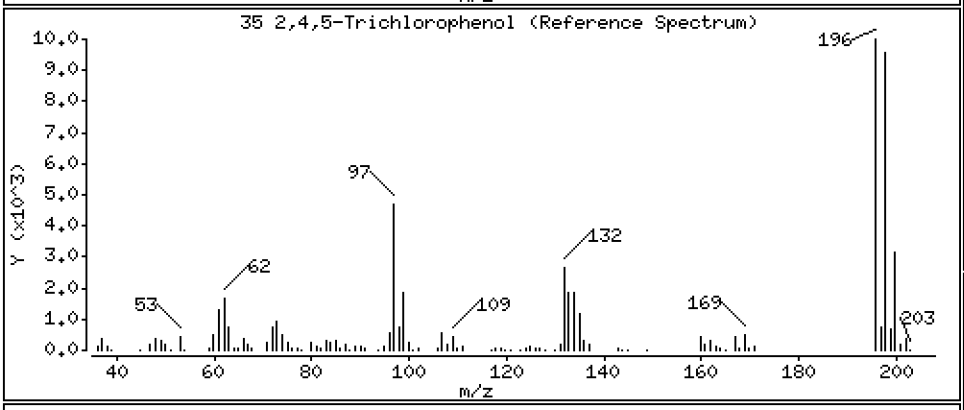
Column diameter: 0.25

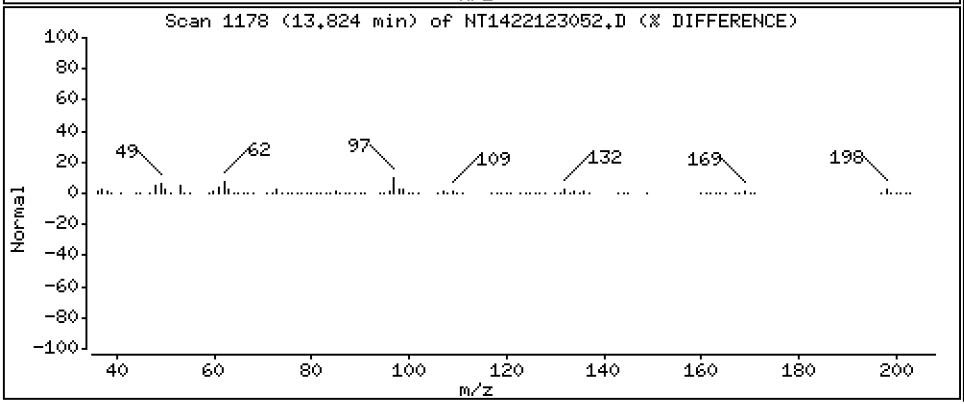
35 2,4,5-Trichlorophenol

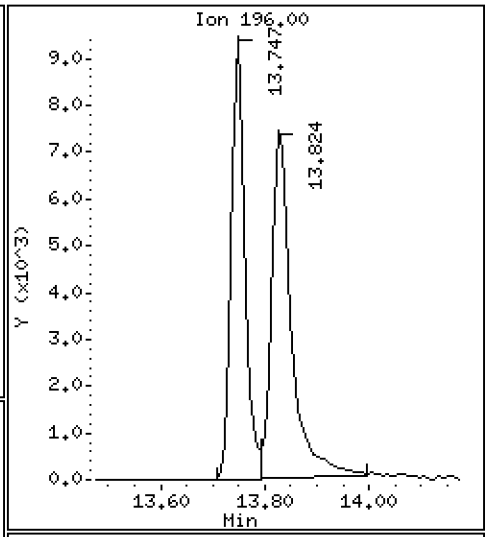
Concentration: 0.8994 ug/mL

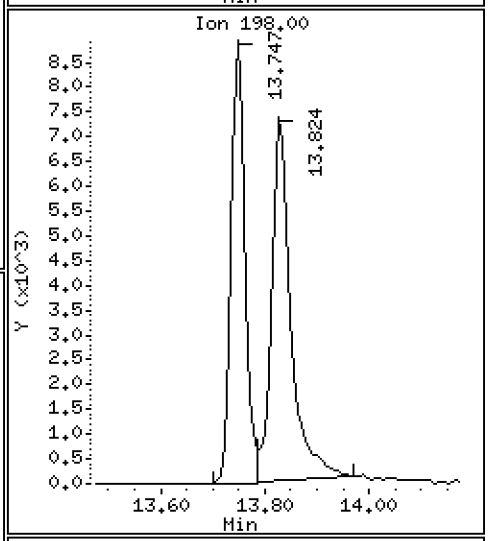


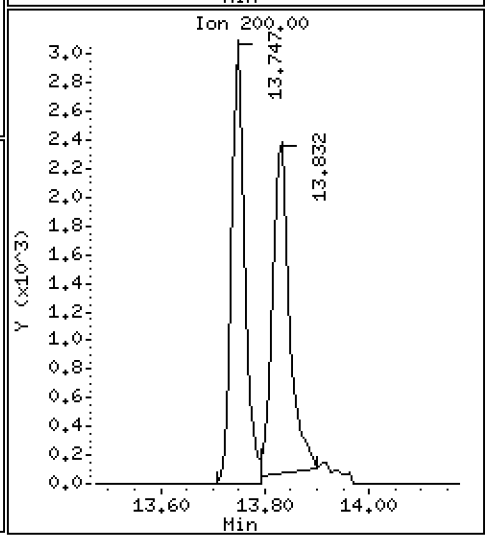












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123052.D

Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

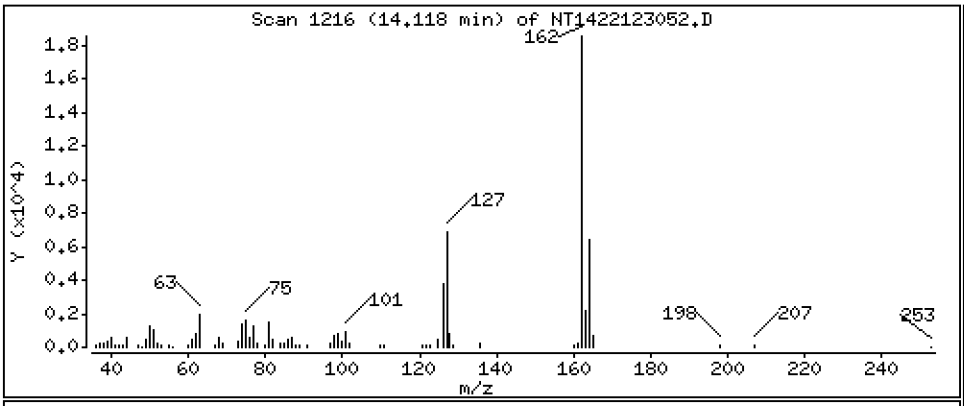
Operator: VTS

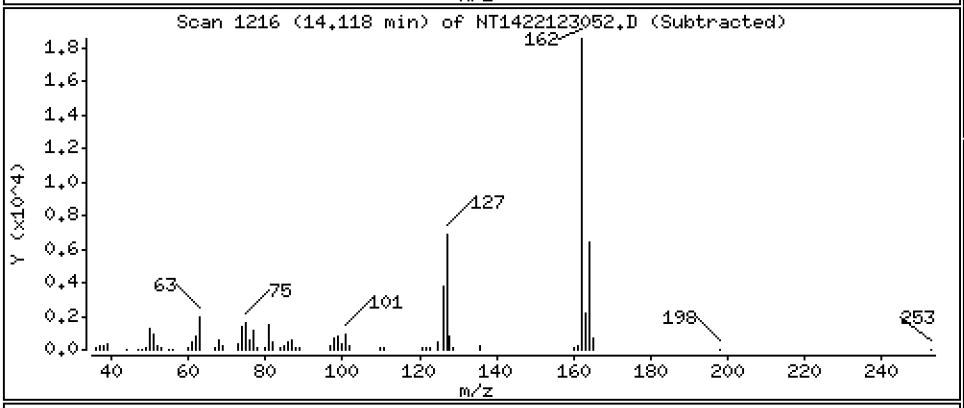
Column phase: ZB-5msi

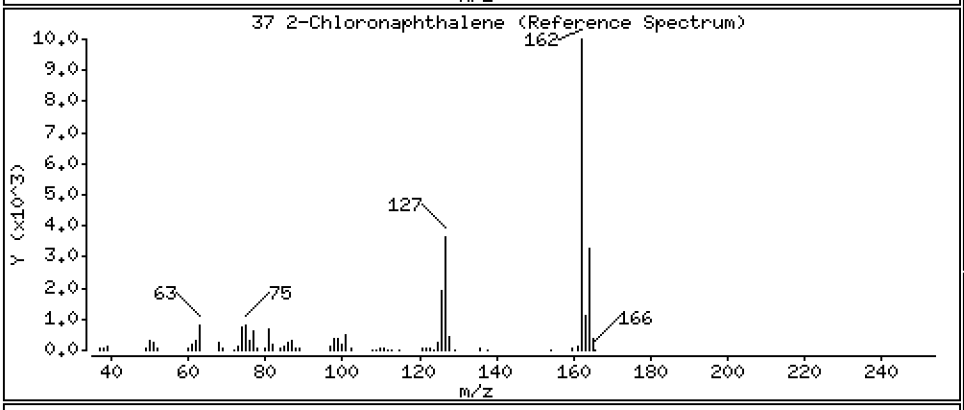
Column diameter: 0.25

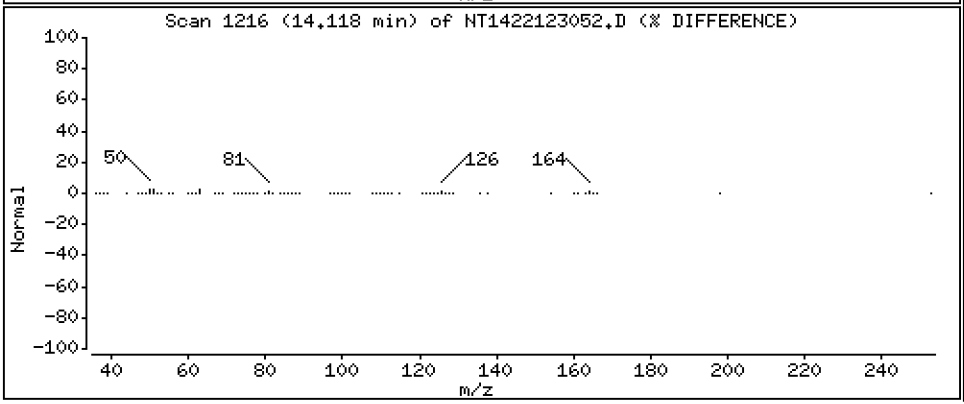
37 2-Chloronaphthalene

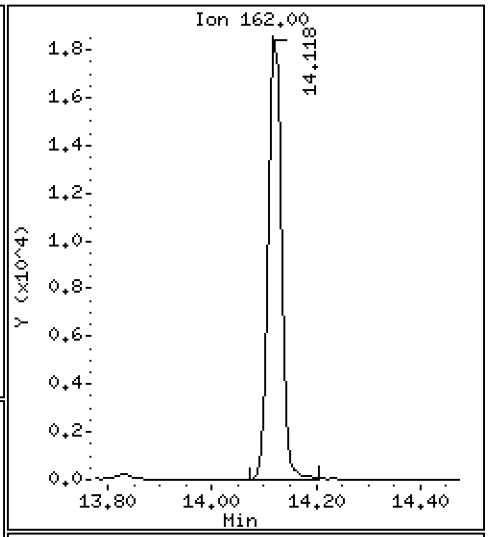
Concentration: 0.4882 ug/mL

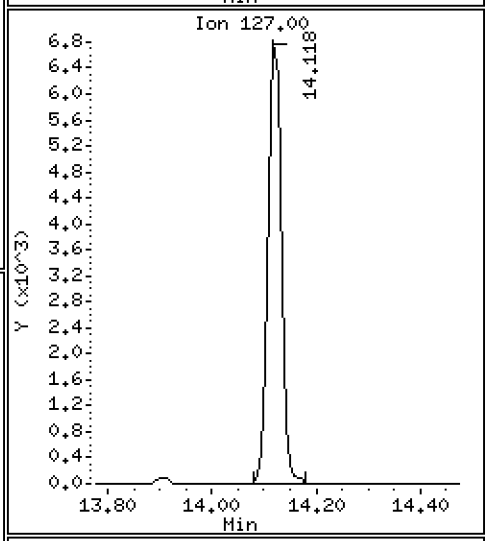


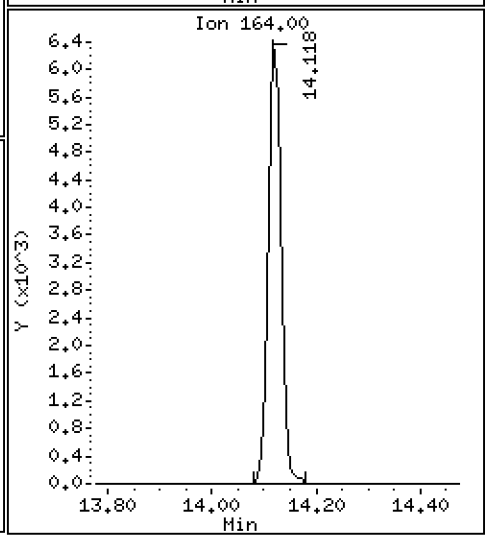












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

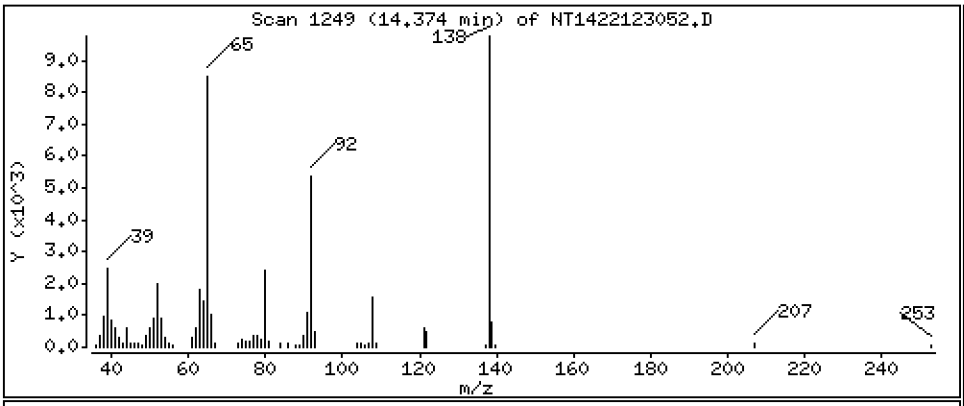
Operator: VTS

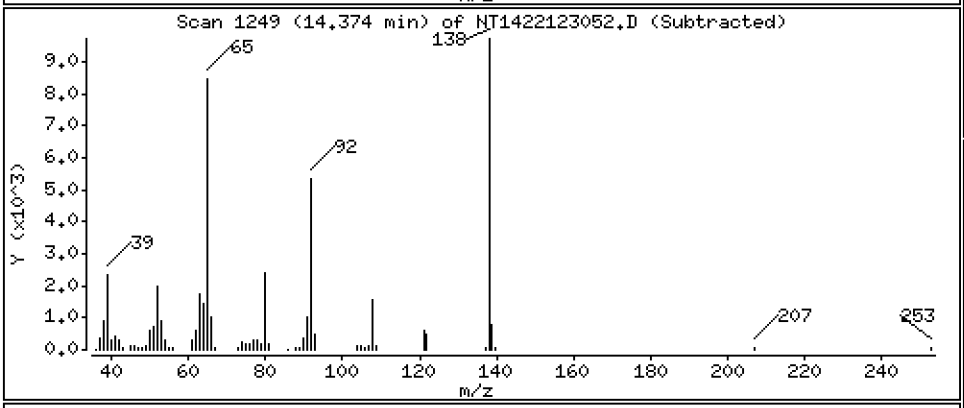
Column phase: ZB-5msi

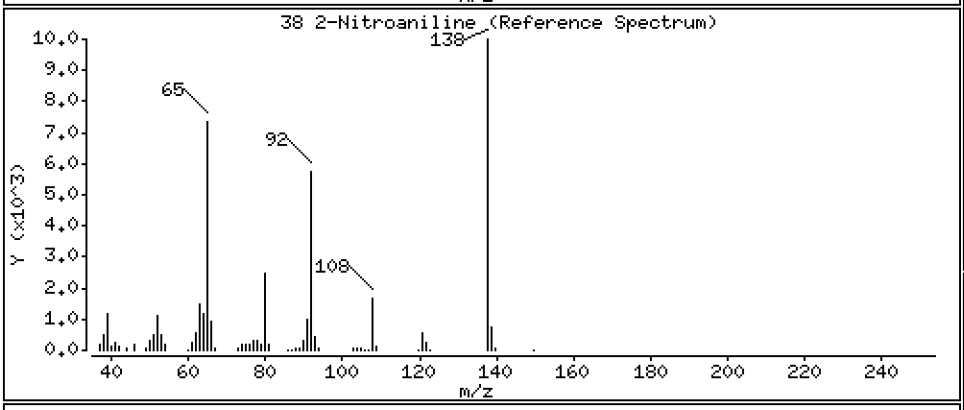
Column diameter: 0.25

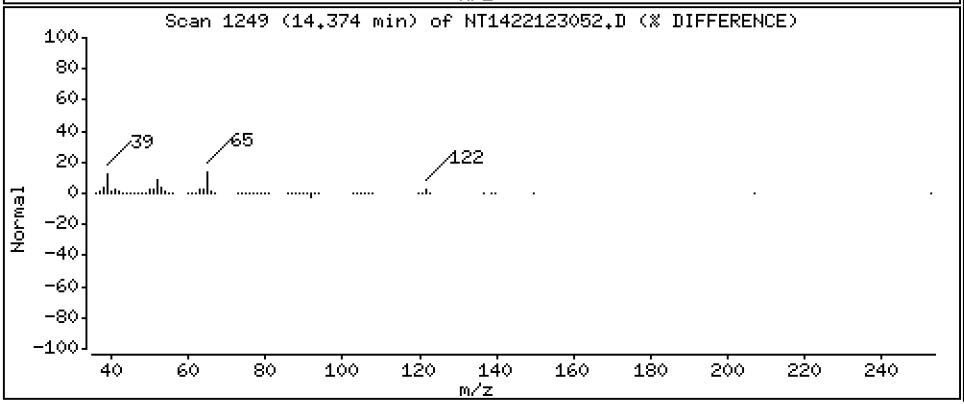
38 2-Nitroaniline

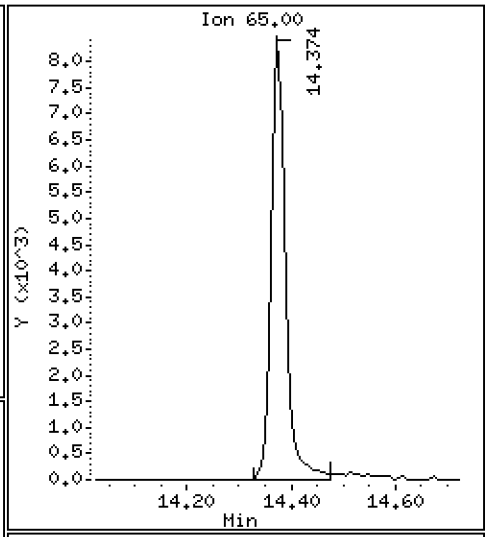
Concentration: 0.9202 ug/mL

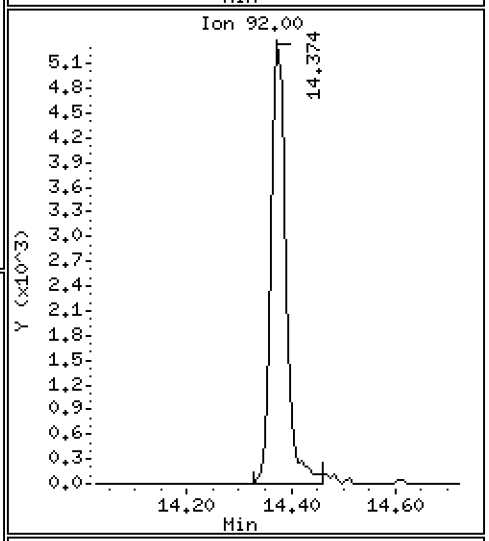


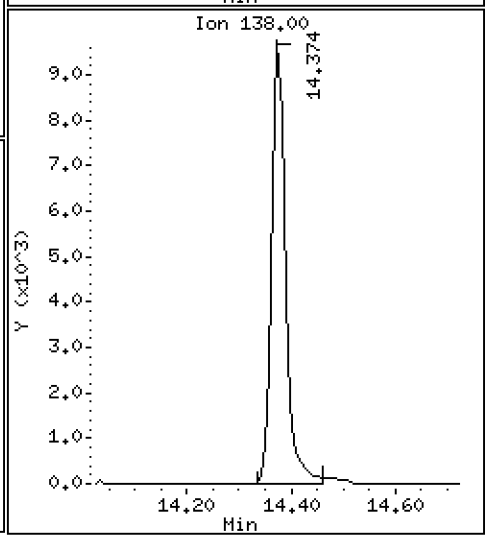












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

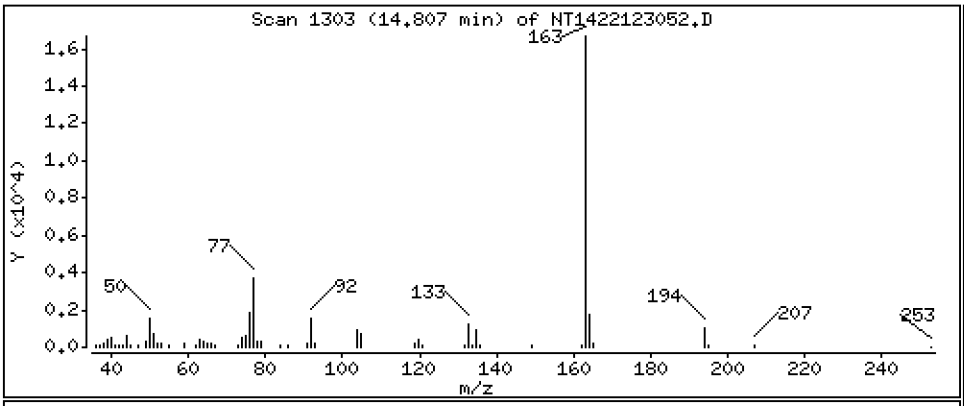
Operator: VTS

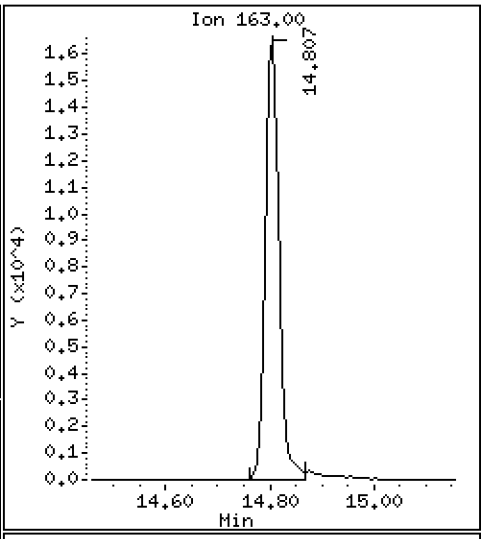
Column phase: ZB-5msi

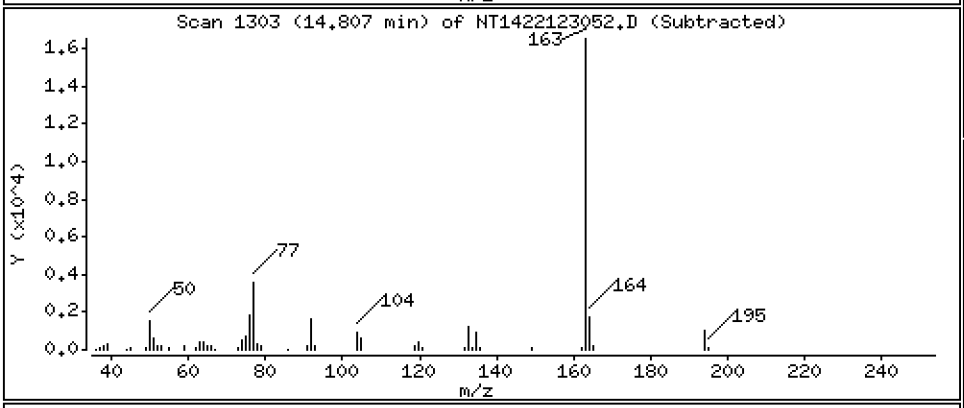
Column diameter: 0.25

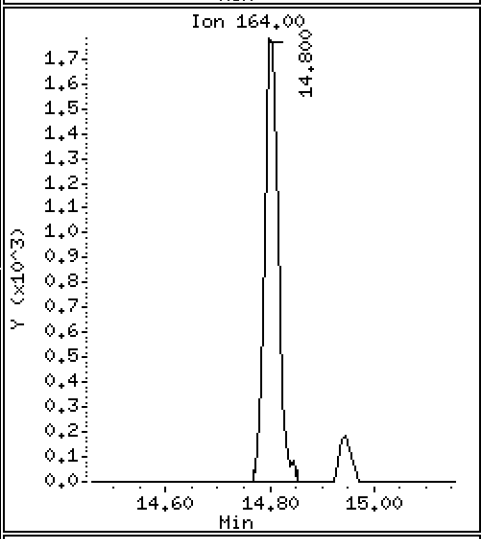
39 Dimethylphthalate

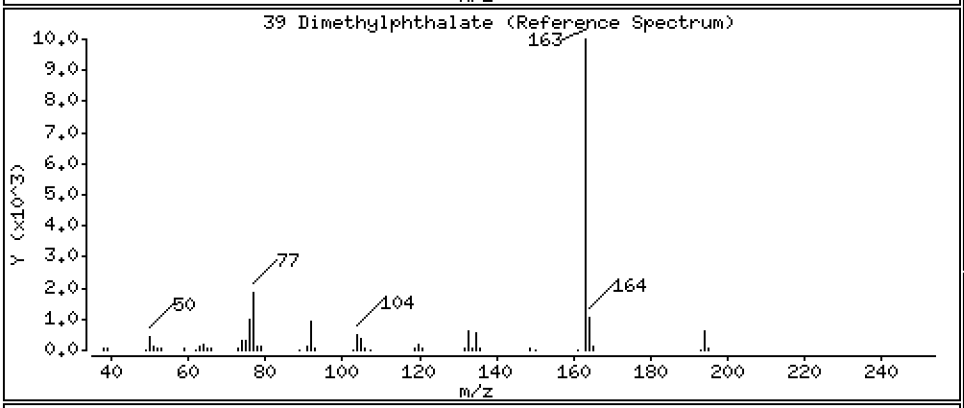
Concentration: 0.4656 ug/mL

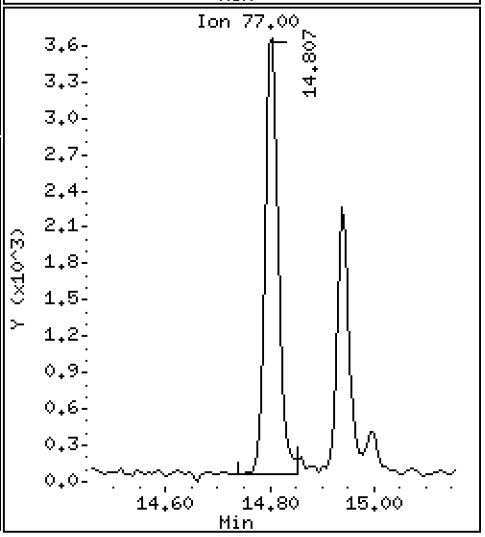


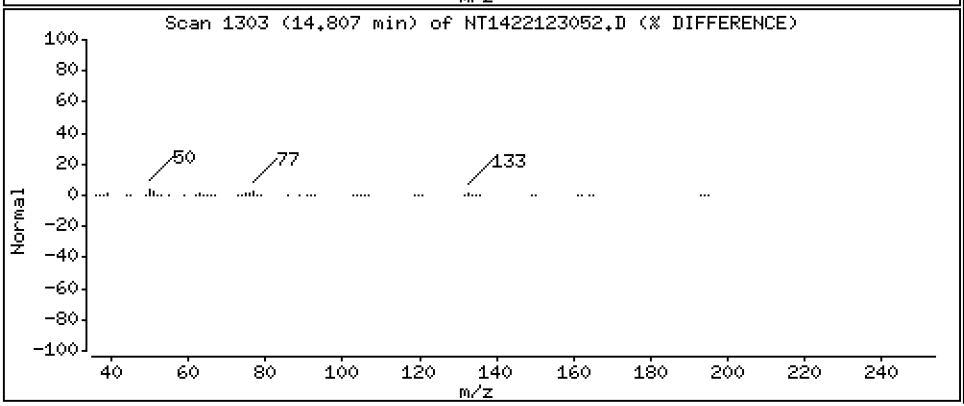












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

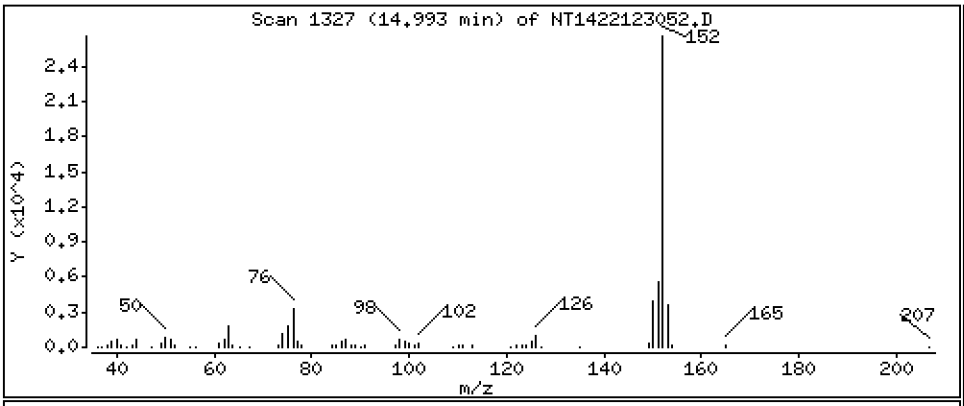
Operator: VTS

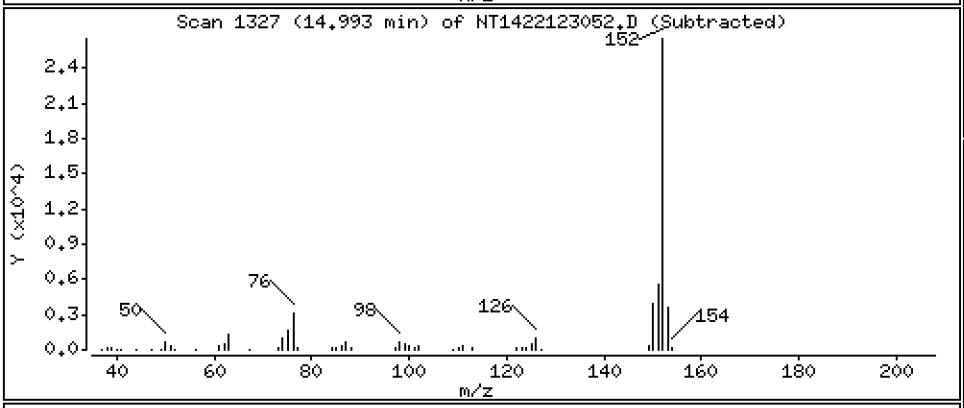
Column phase: ZB-5msi

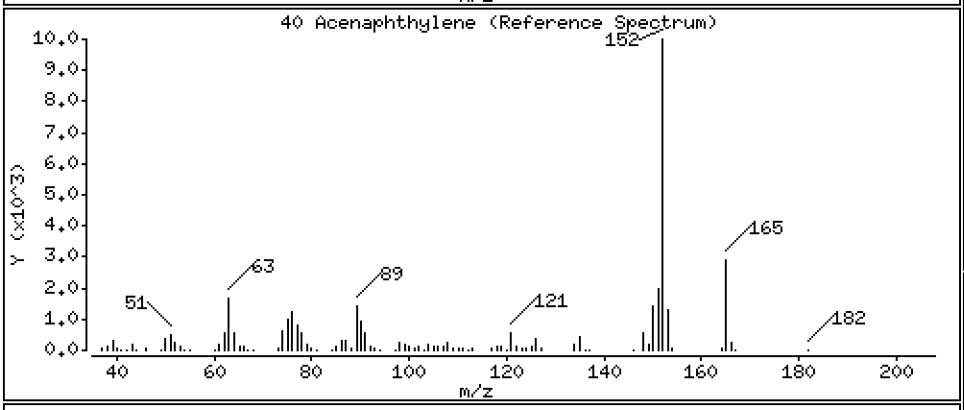
Column diameter: 0.25

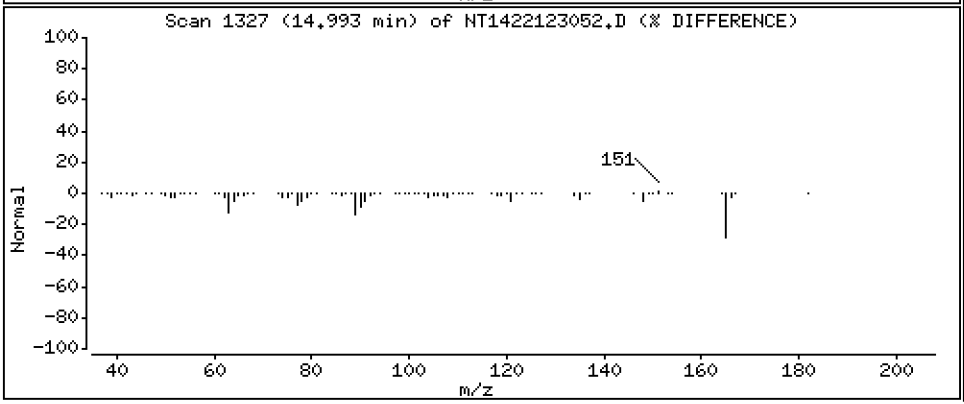
40 Acenaphthylene

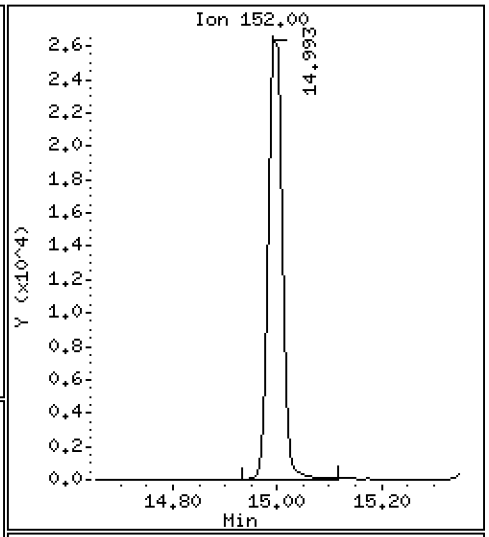
Concentration: 0.5321 ug/mL

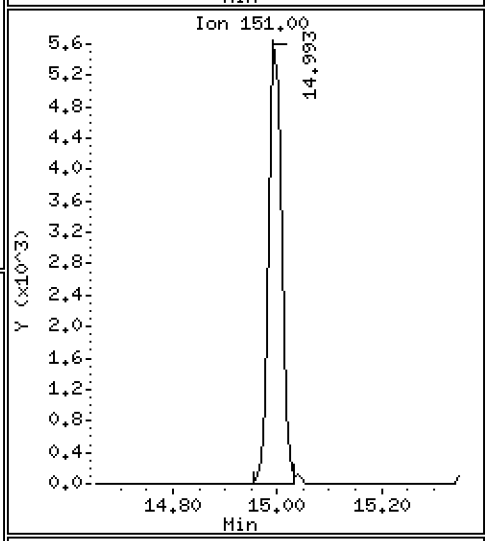


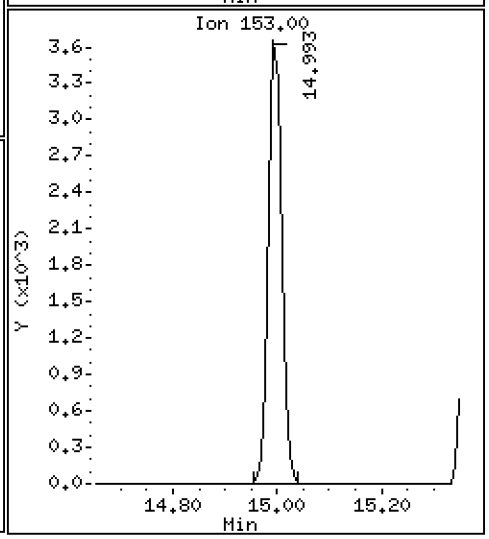












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

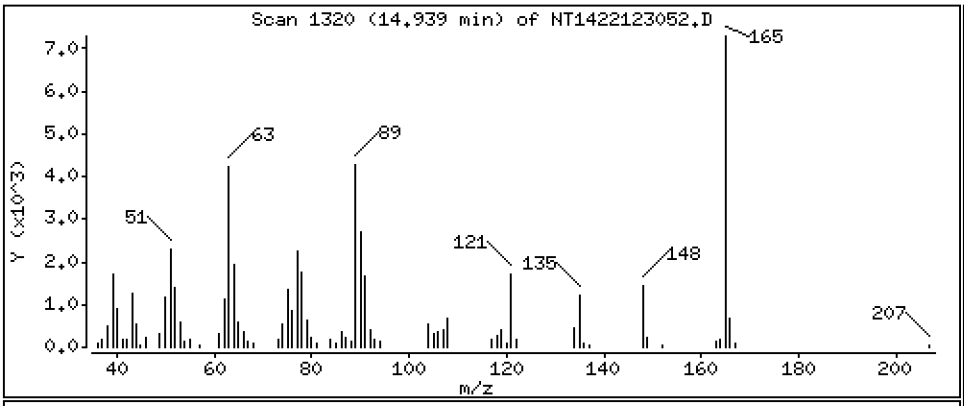
Operator: VTS

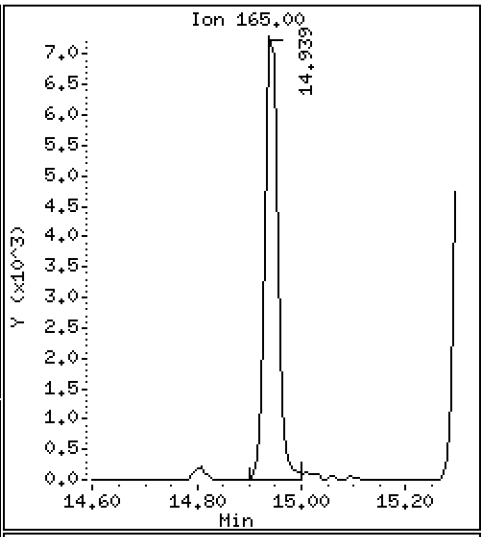
Column phase: ZB-5msi

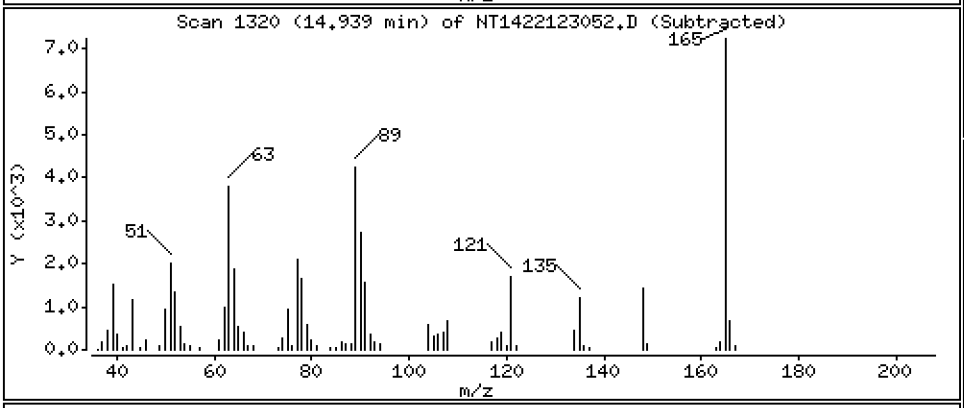
Column diameter: 0.25

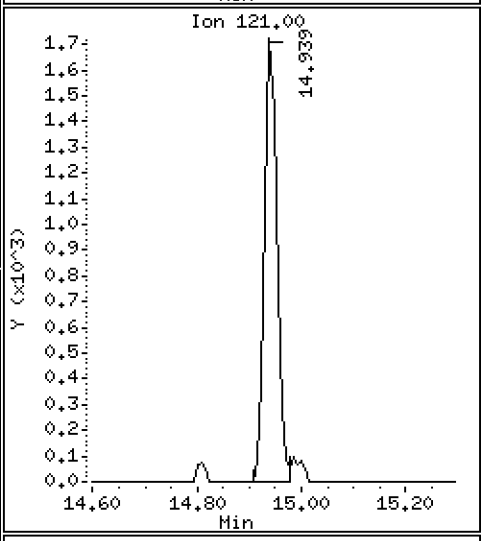
41 2,6-Dinitrotoluene

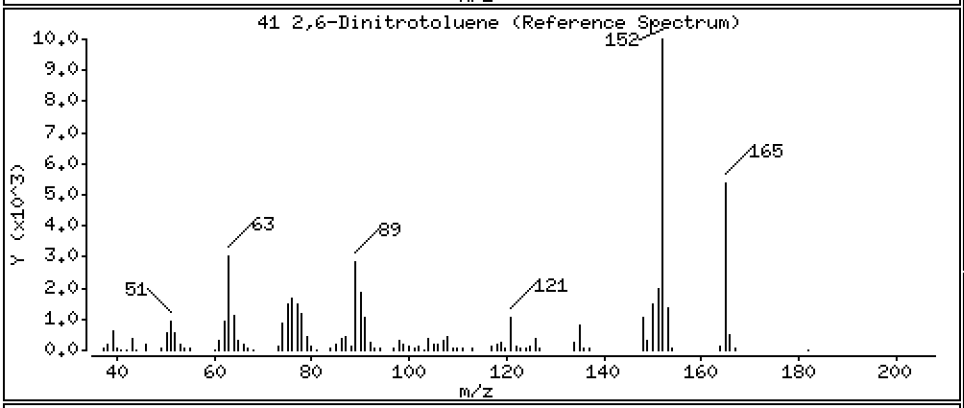
Concentration: 0.8515 ug/mL

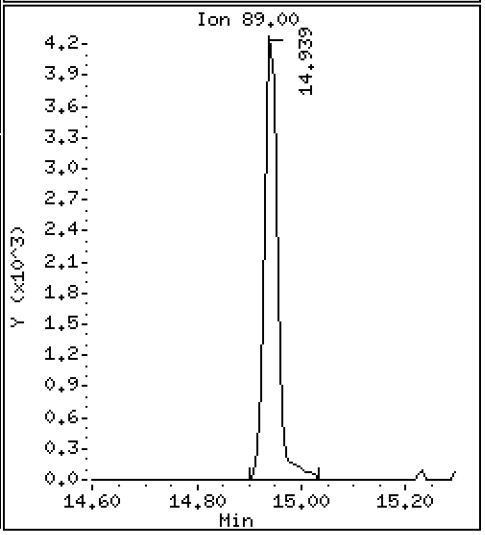


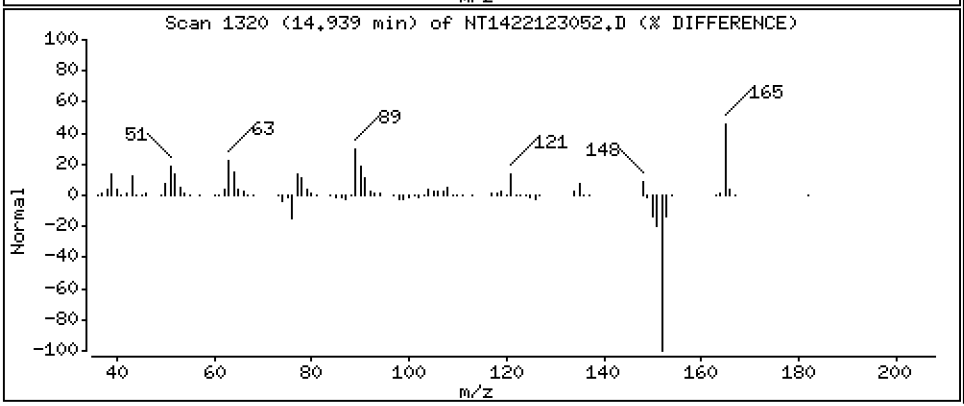












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

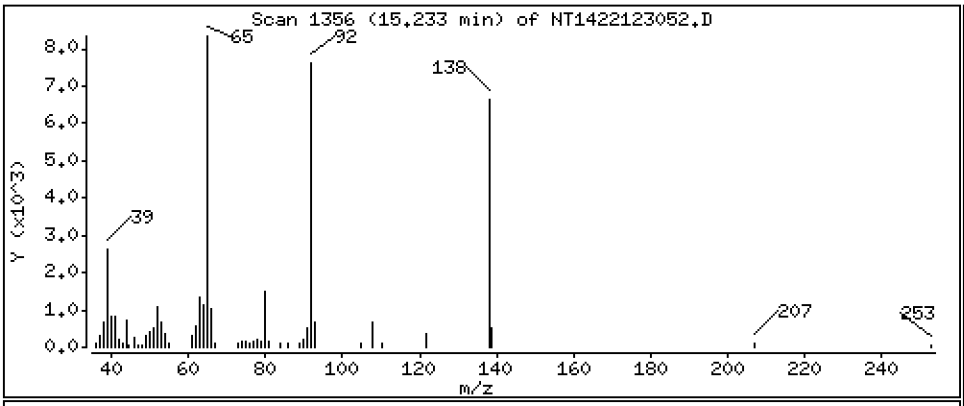
Operator: VTS

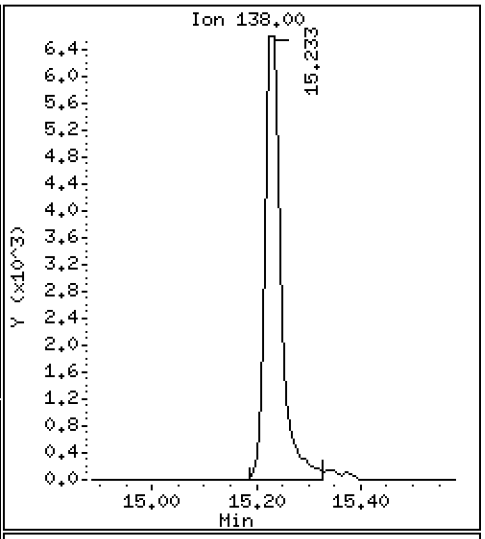
Column phase: ZB-5msi

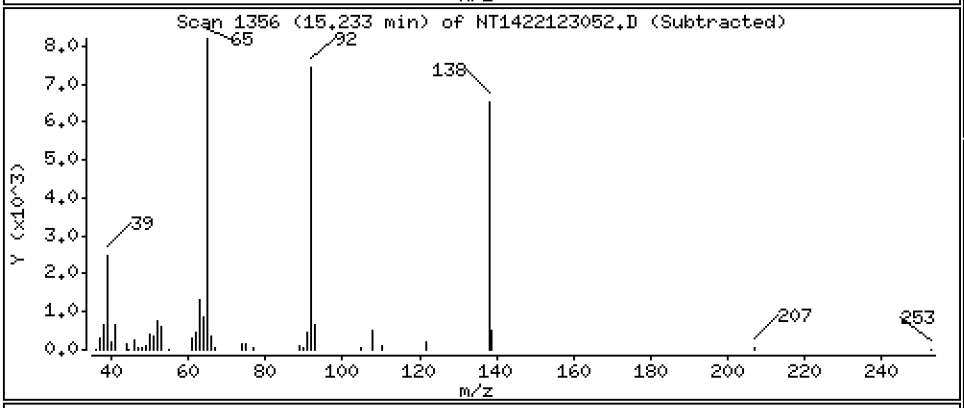
Column diameter: 0.25

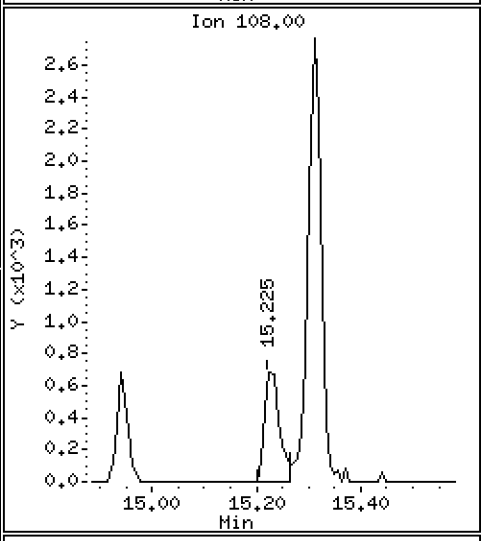
43 3-Nitroaniline

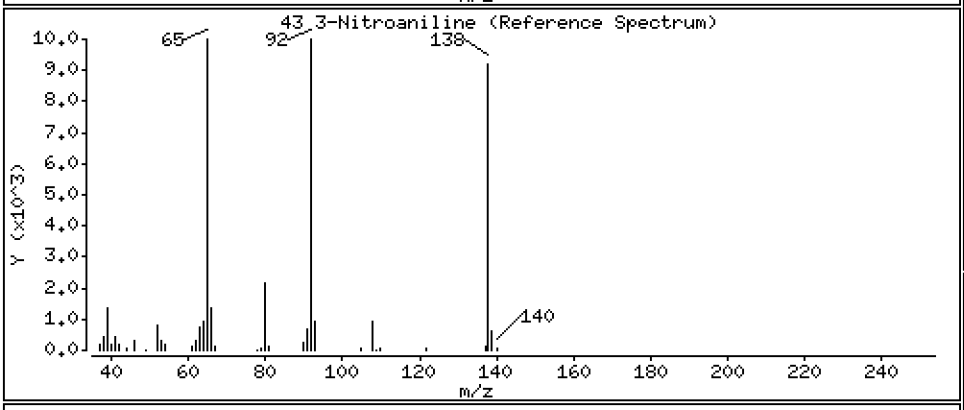
Concentration: 0.8004 ug/mL

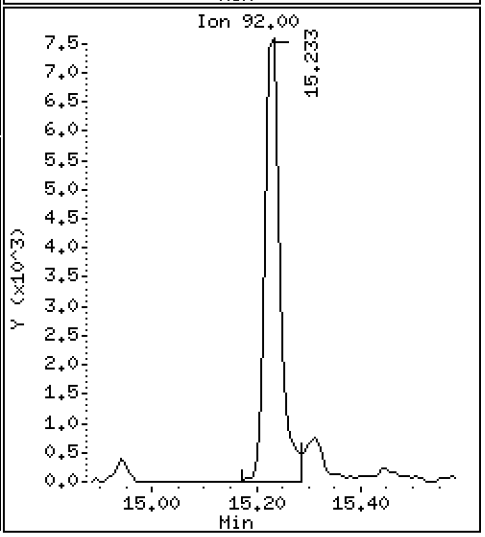


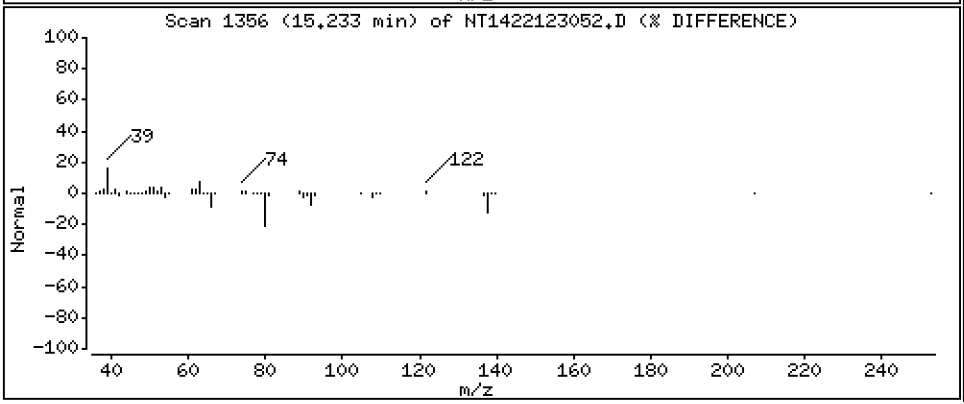












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

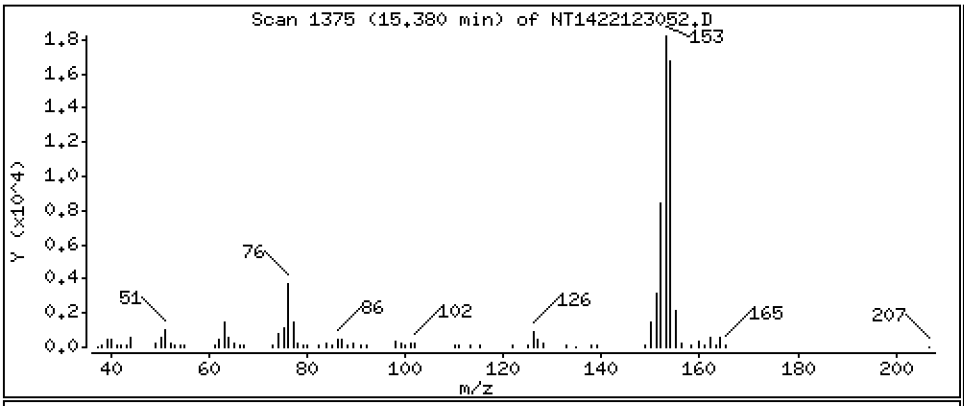
Operator: VTS

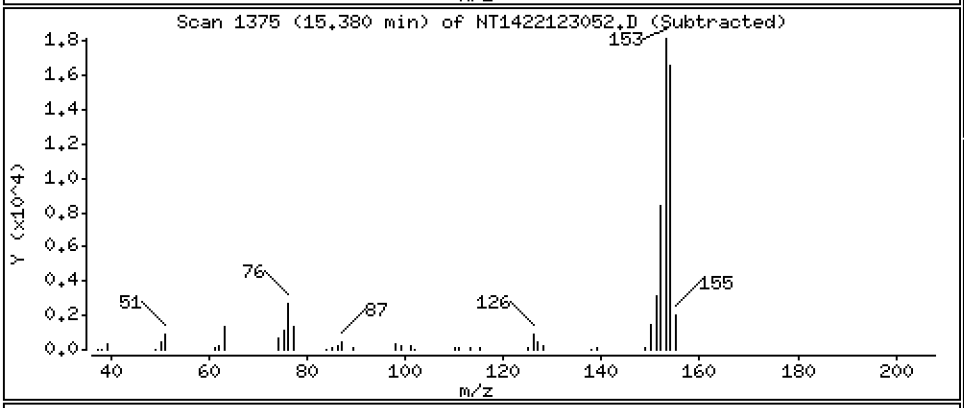
Column phase: ZB-5msi

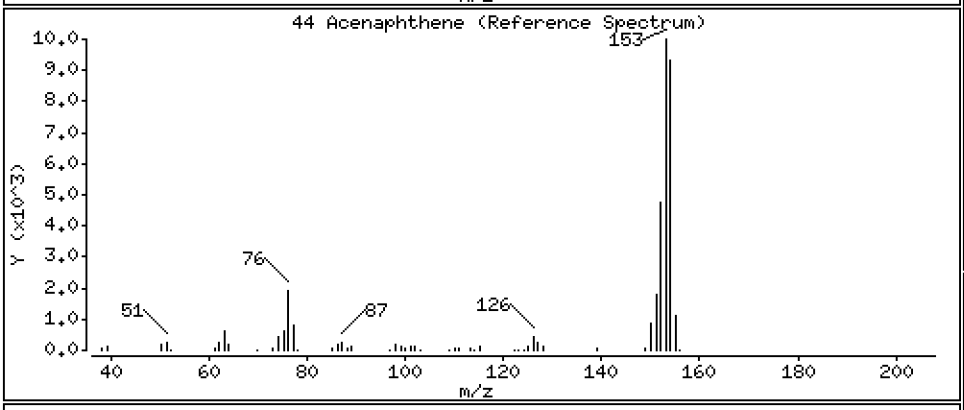
Column diameter: 0.25

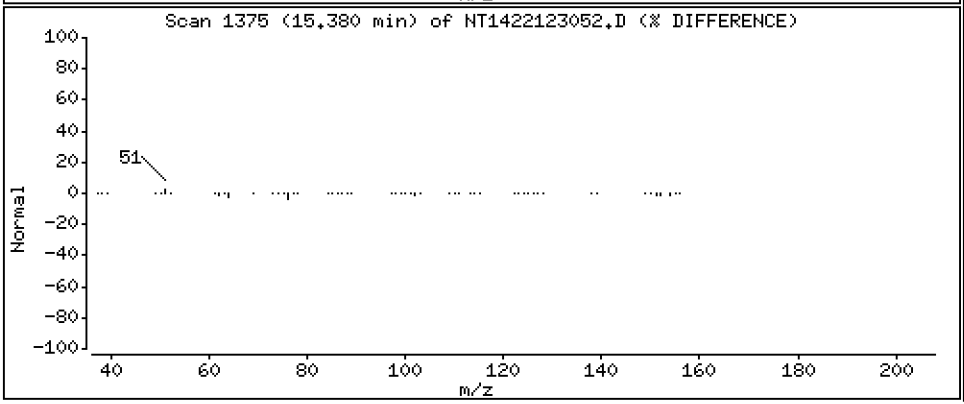
44 Acenaphthene

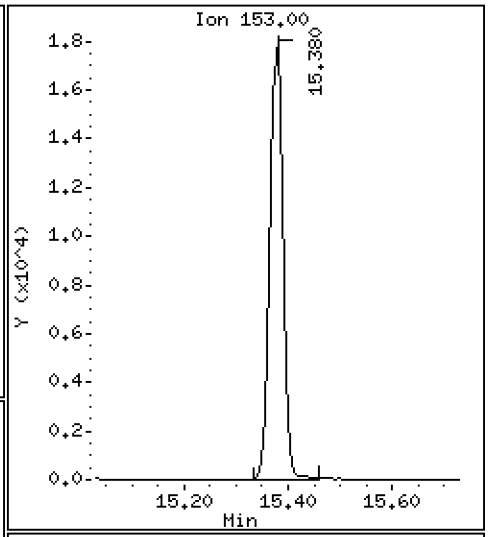
Concentration: 0.4966 ug/mL

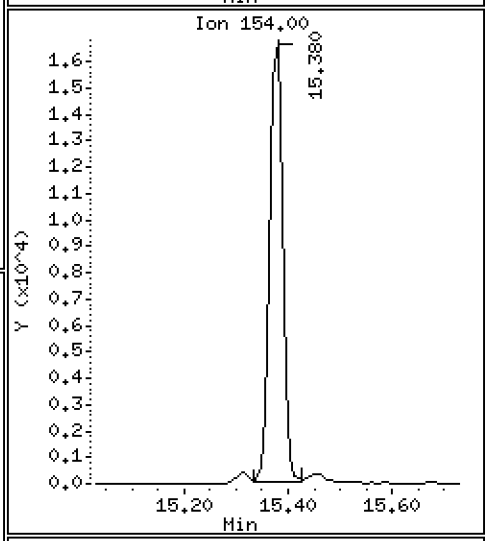


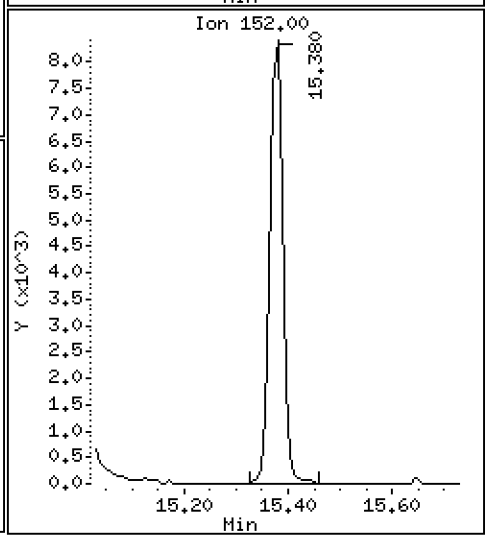












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

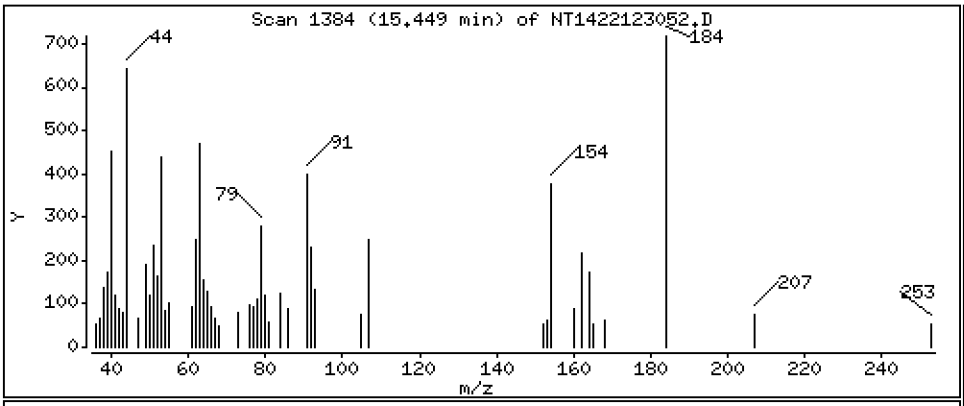
Operator: VTS

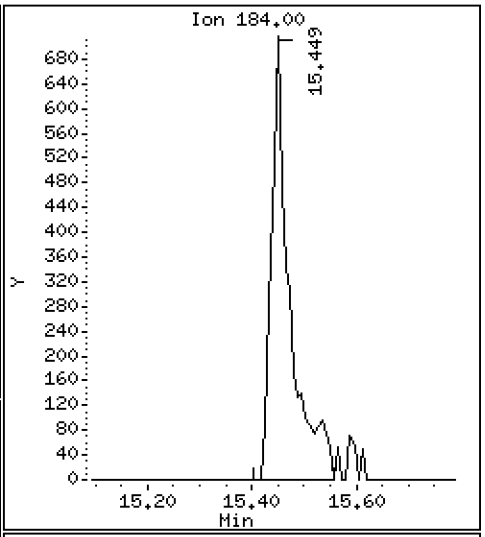
Column phase: ZB-5msi

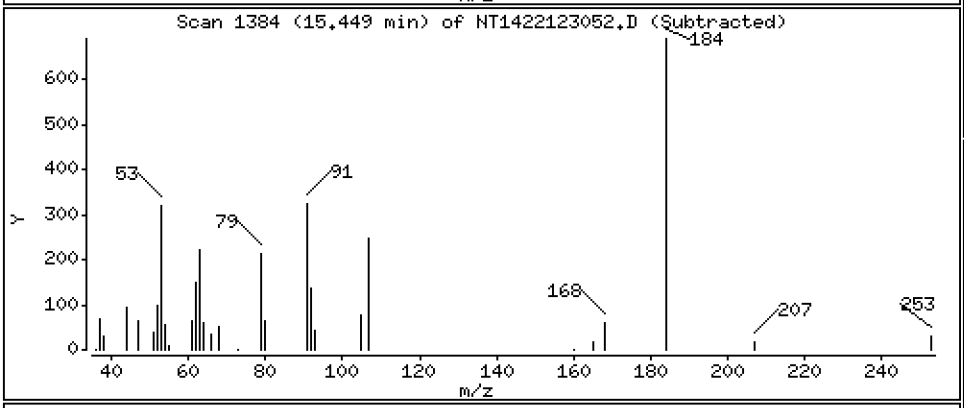
Column diameter: 0.25

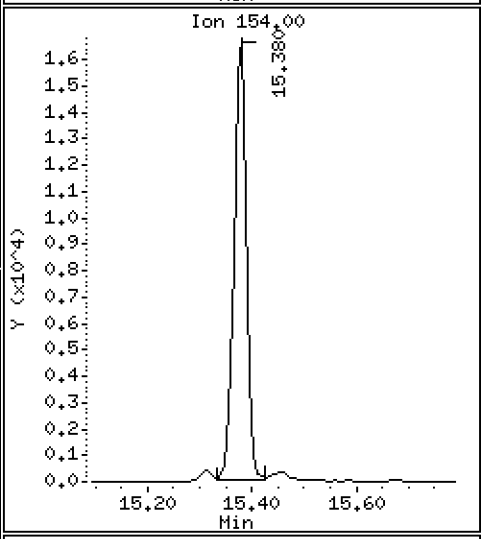
45 2,4-Dinitrophenol

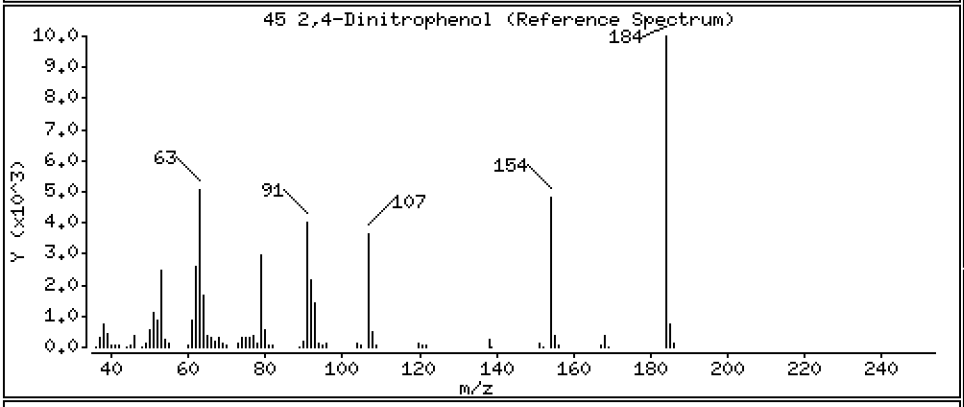
Concentration: 0.1450 ug/mL

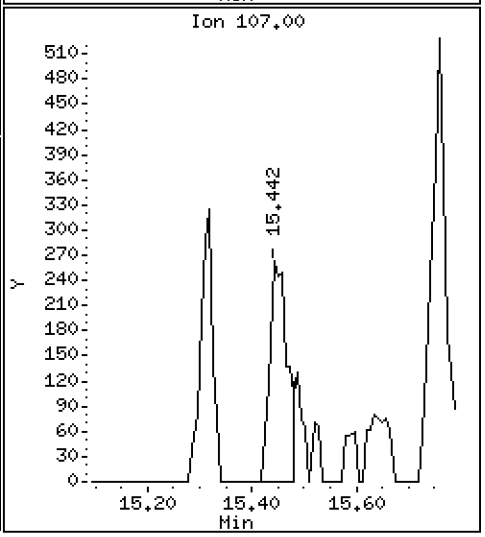


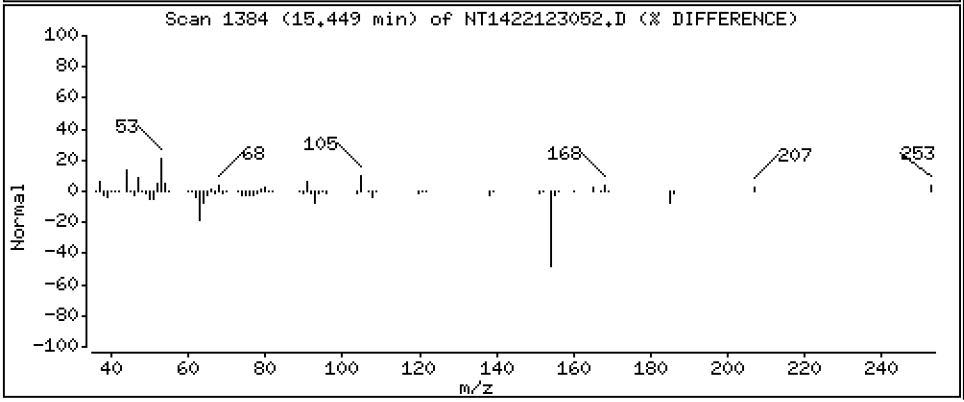












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

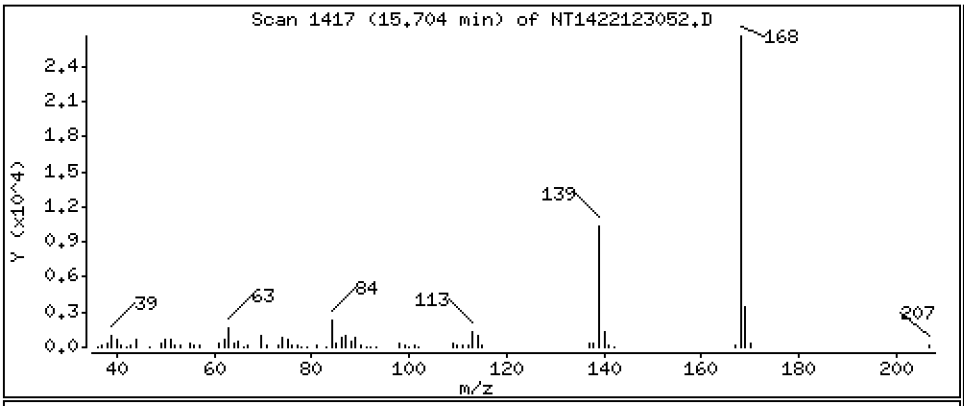
Operator: VTS

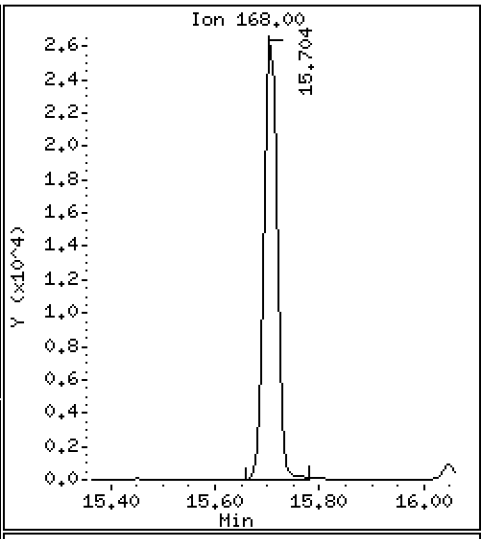
Column phase: ZB-5msi

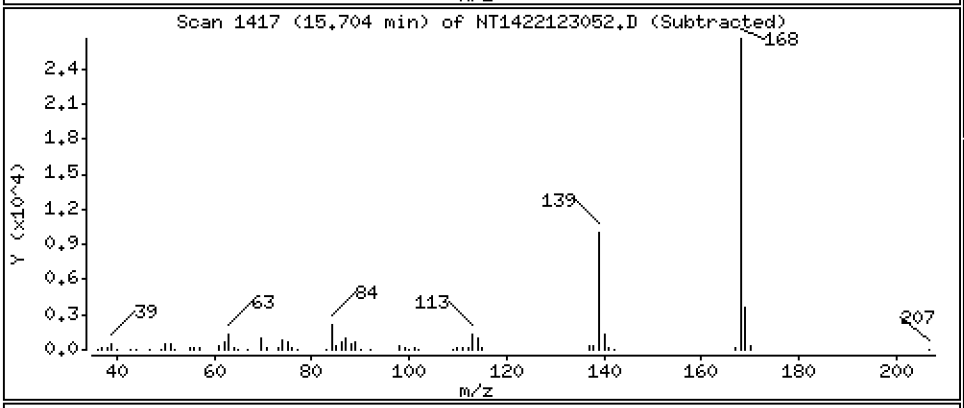
Column diameter: 0.25

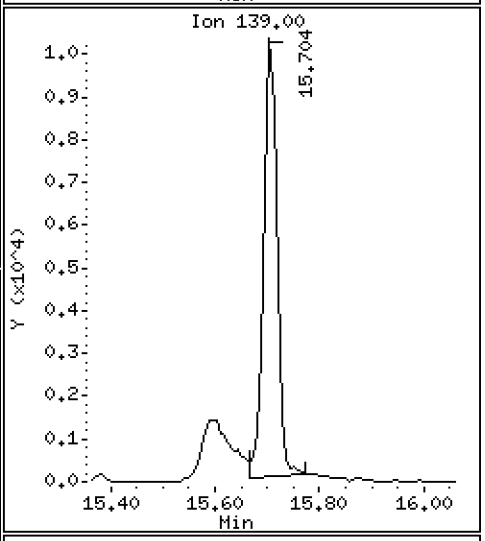
46 Dibenzofuran

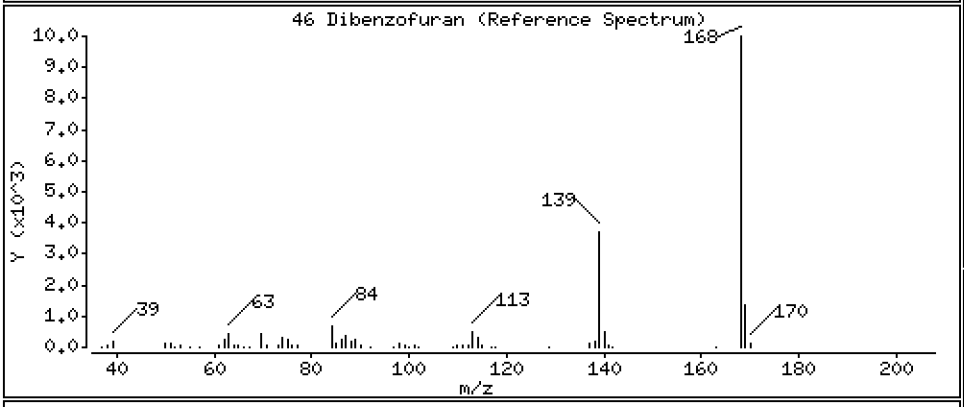
Concentration: 0.4927 ug/mL

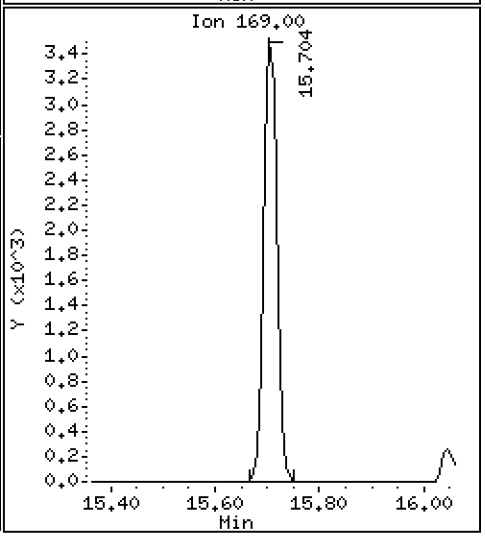


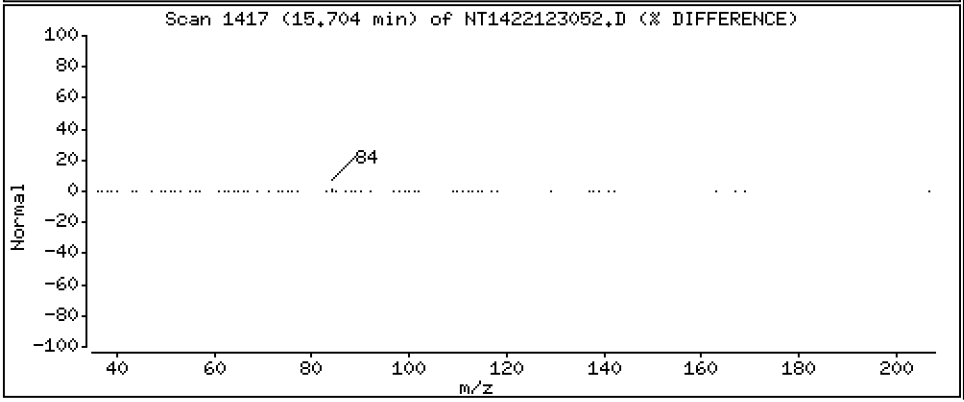












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

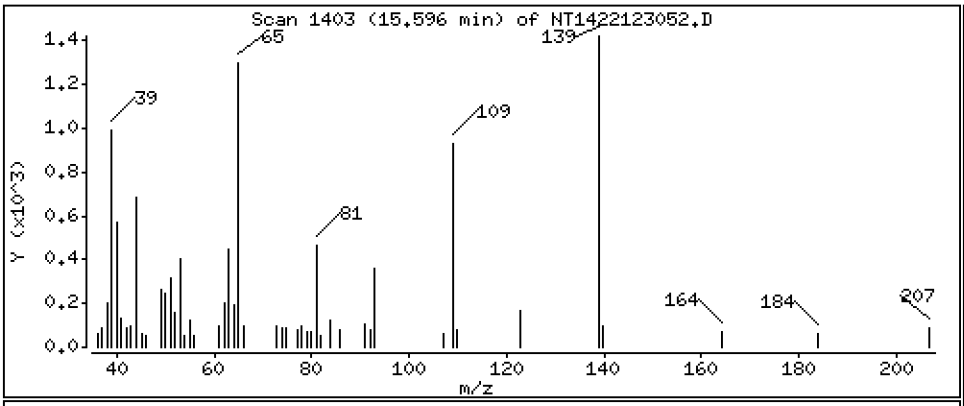
Operator: VTS

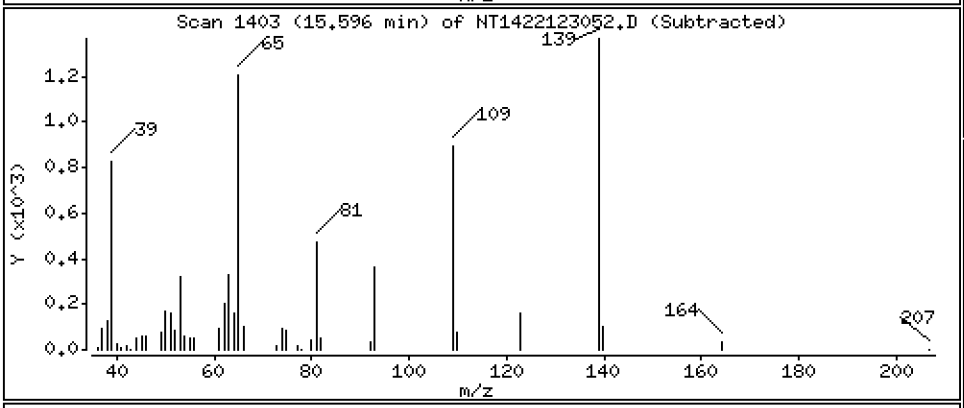
Column phase: ZB-5msi

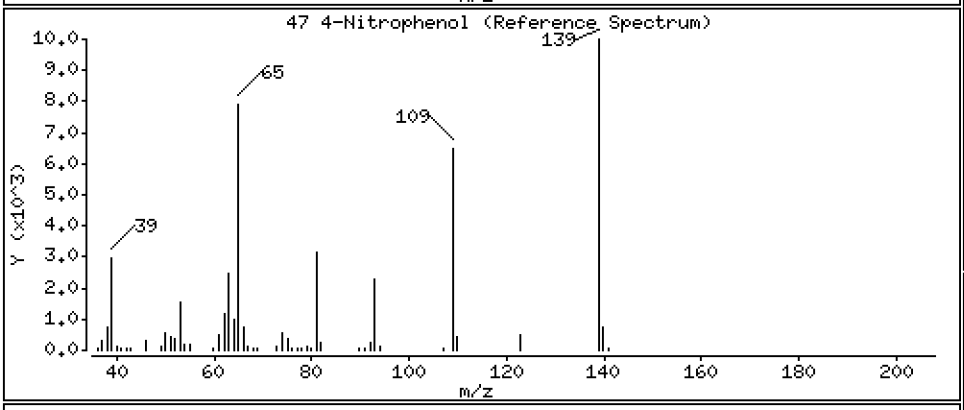
Column diameter: 0.25

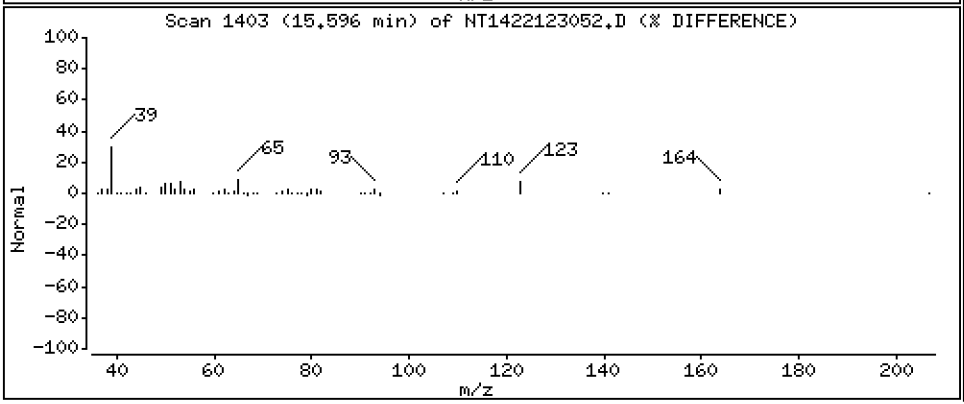
47 4-Nitrophenol

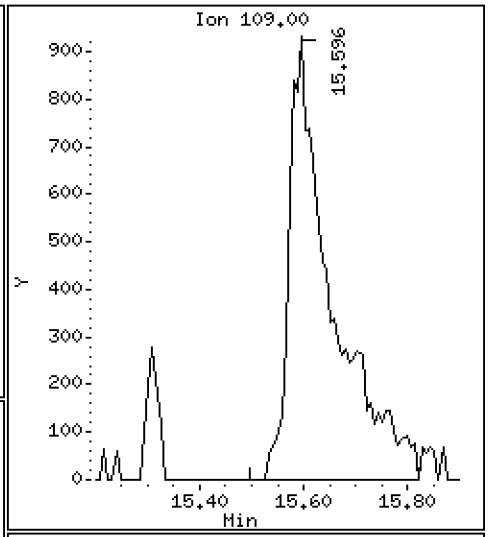
Concentration: 0.6475 ug/mL

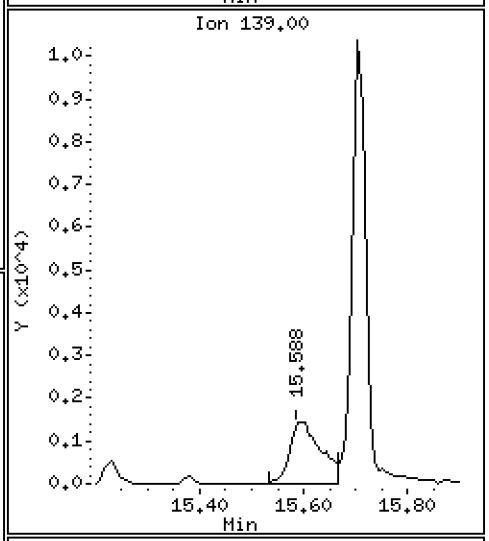


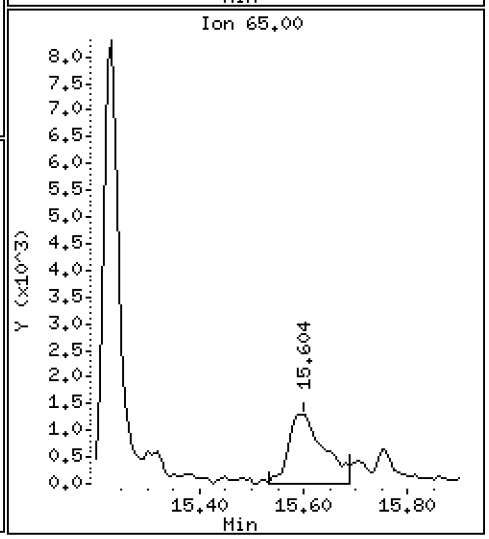












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

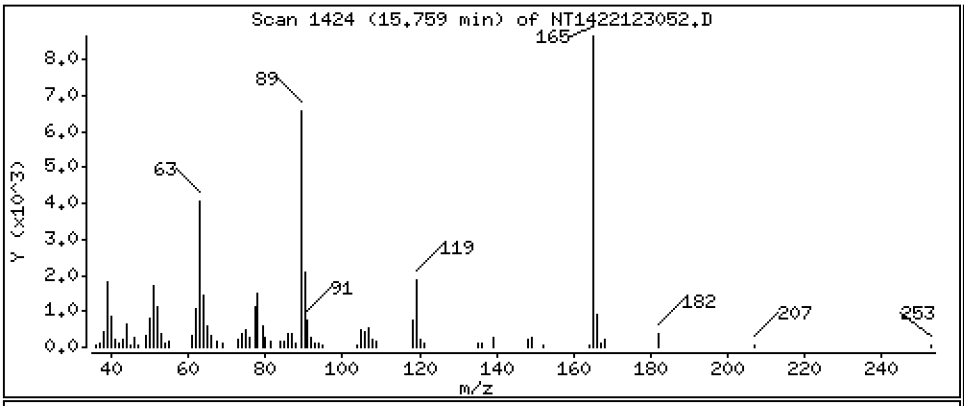
Operator: VTS

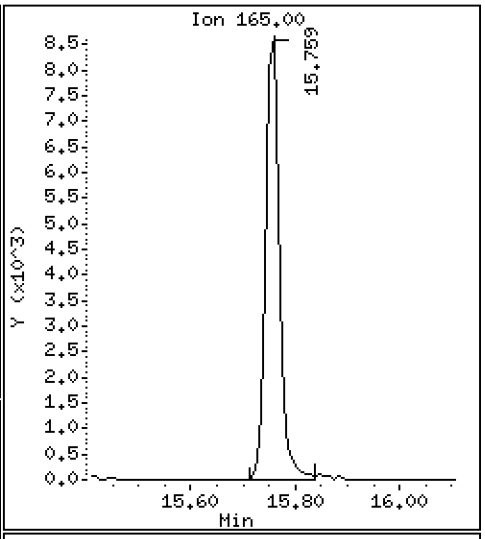
Column phase: ZB-5msi

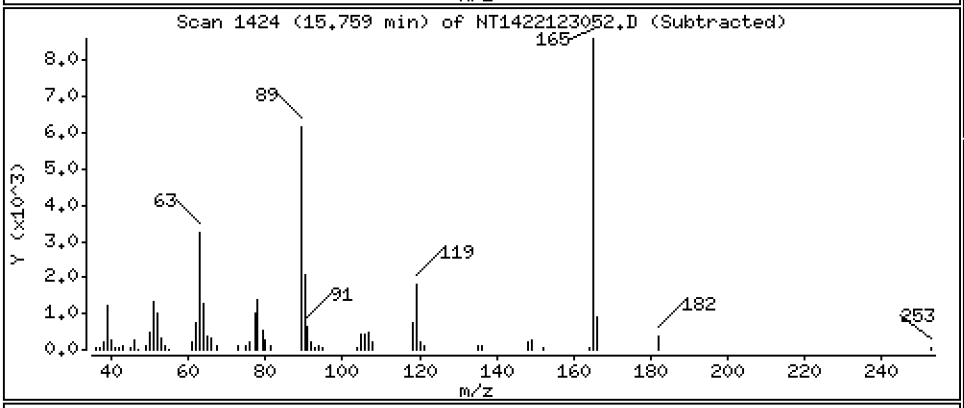
Column diameter: 0.25

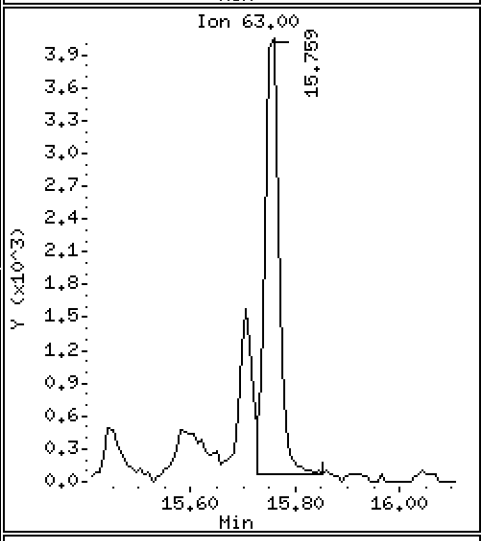
48 2,4-Dinitrotoluene

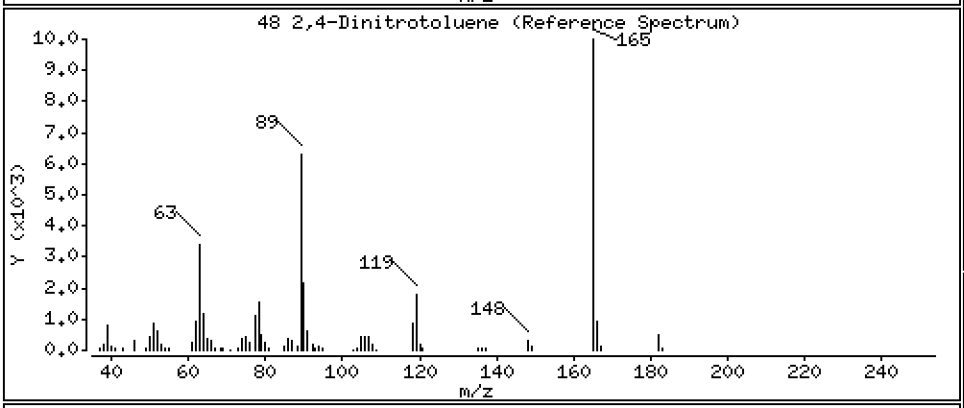
Concentration: 0.7788 ug/mL

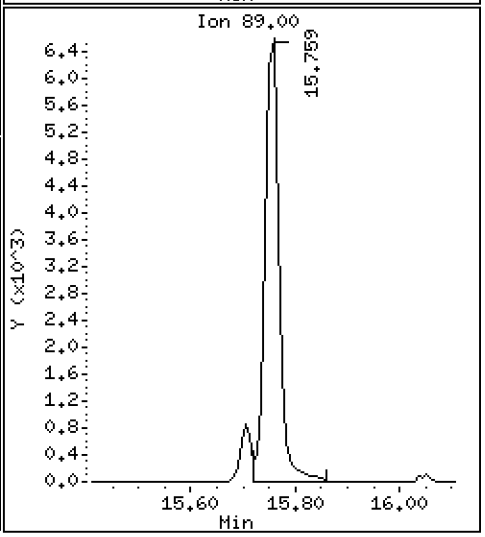


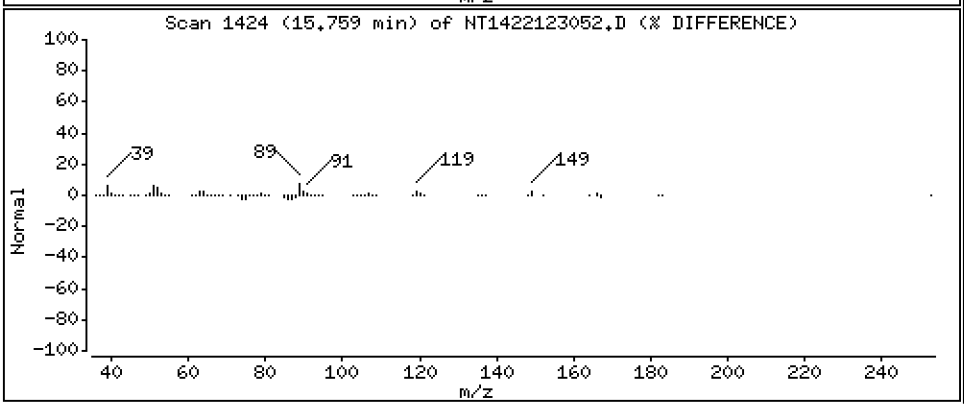












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

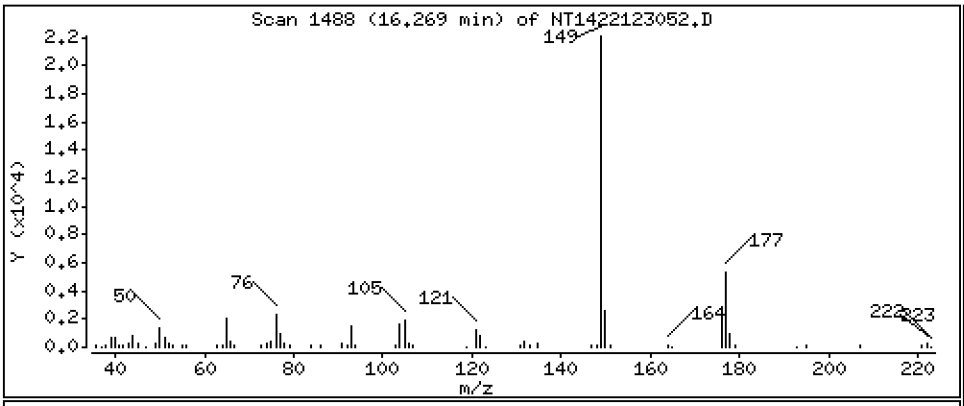
Operator: VTS

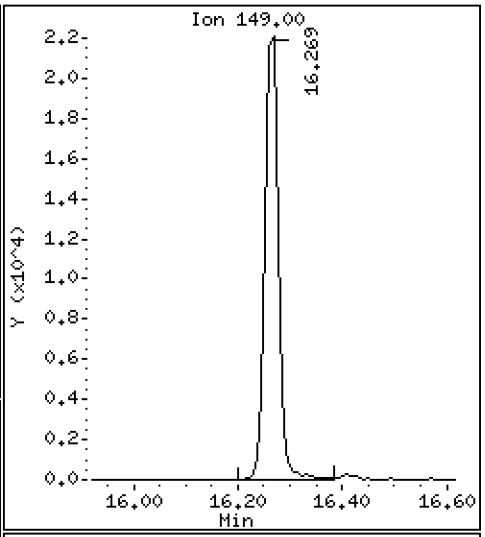
Column phase: ZB-5msi

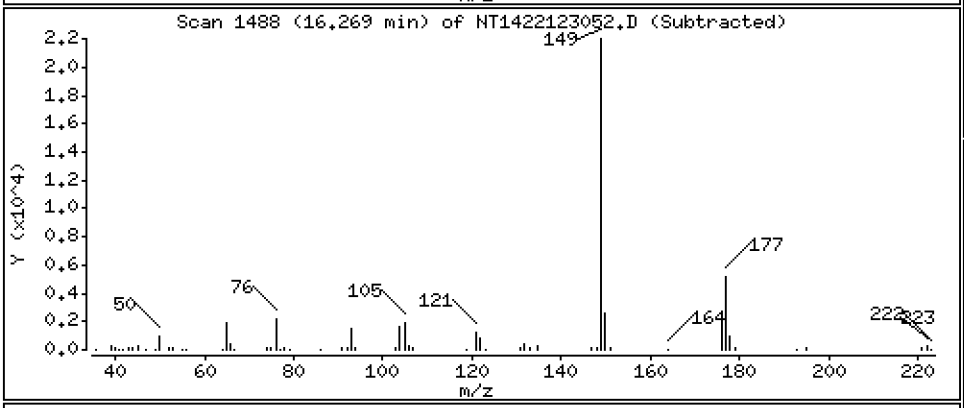
Column diameter: 0.25

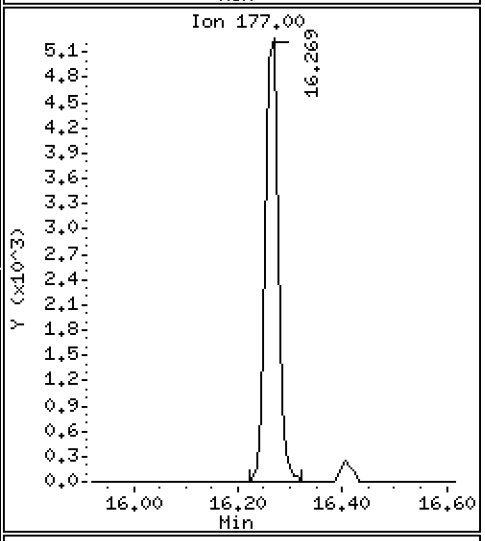
50 Diethylphthalate

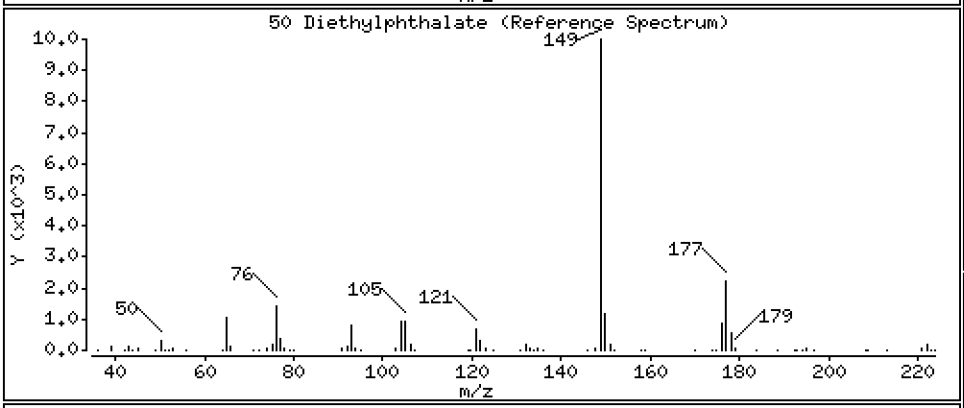
Concentration: 0.5374 ug/mL

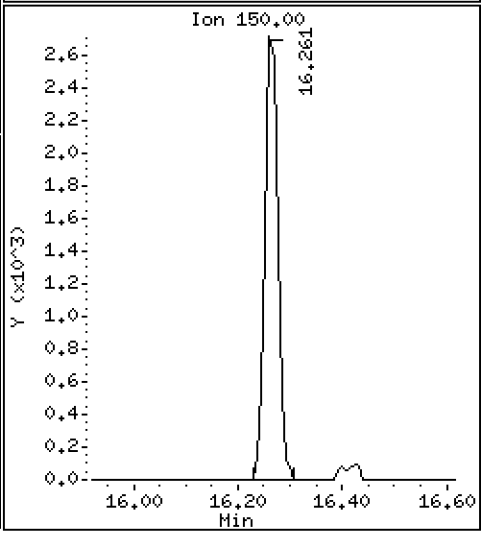


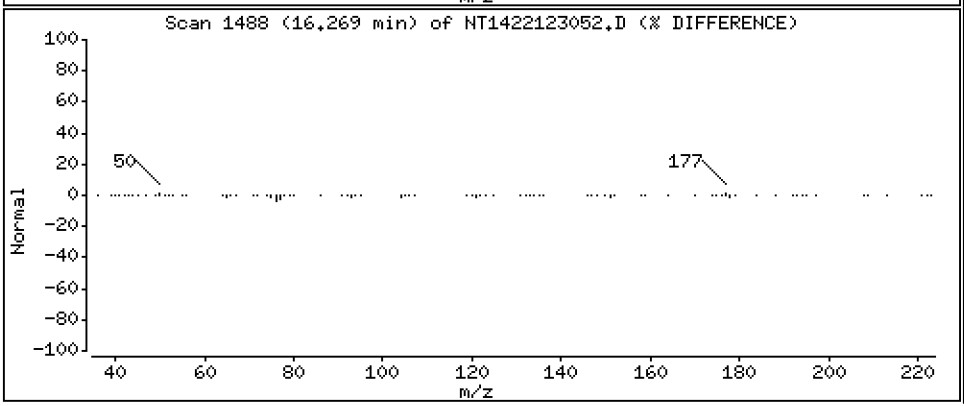












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

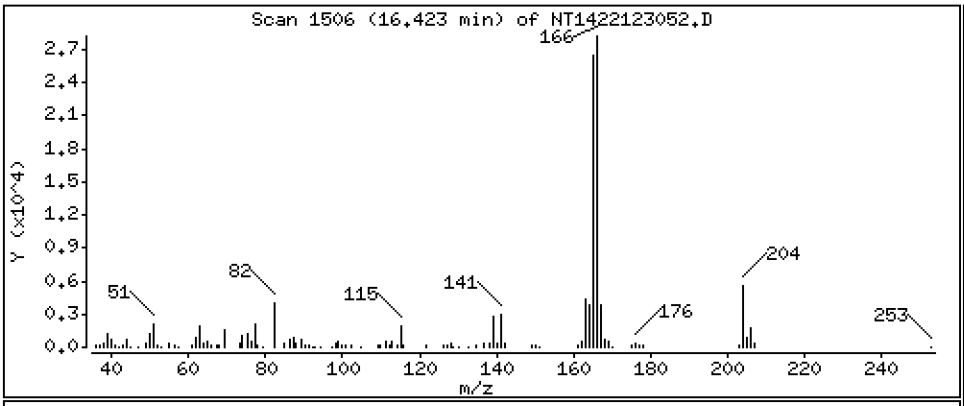
Operator: VTS

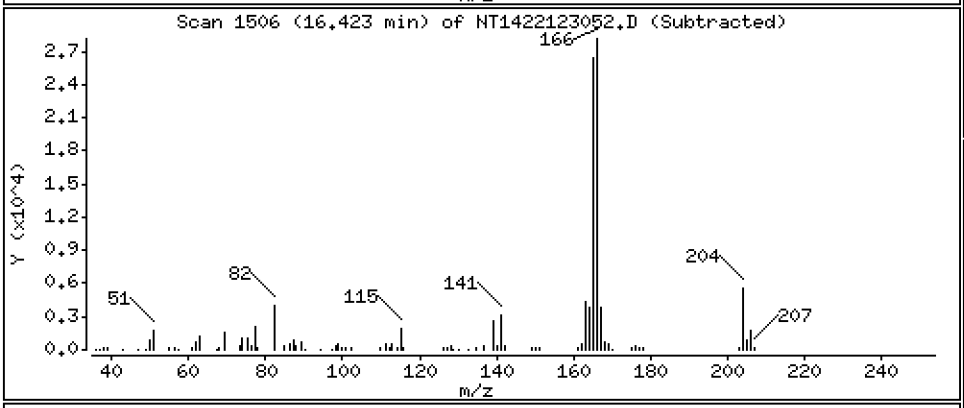
Column phase: ZB-5msi

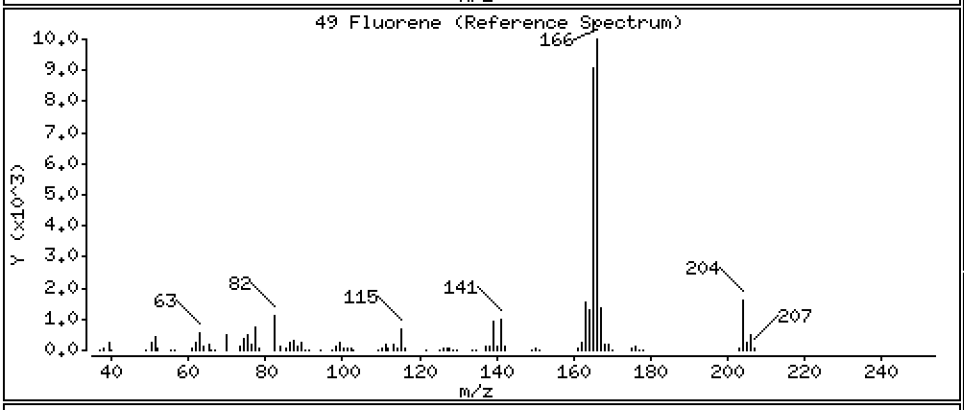
Column diameter: 0.25

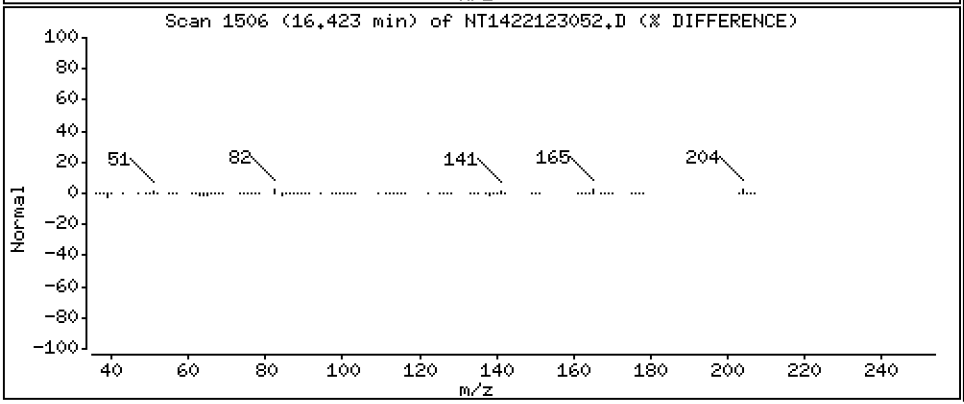
49 Fluorene

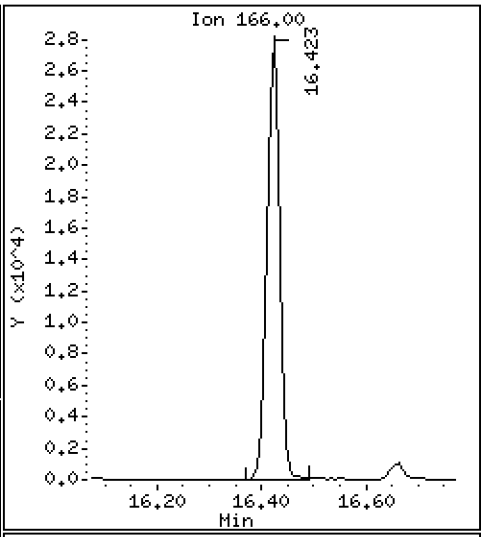
Concentration: 0.4836 ug/mL

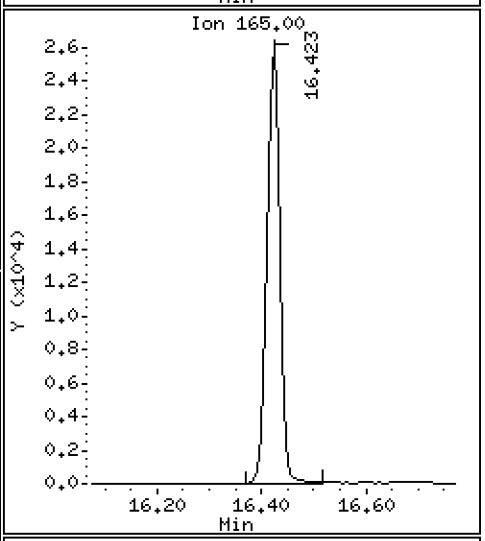


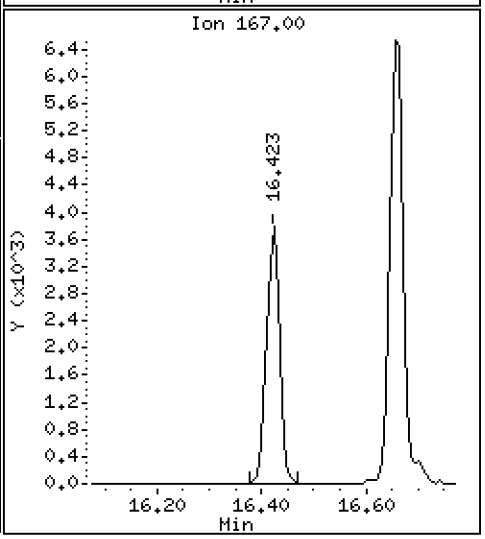












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

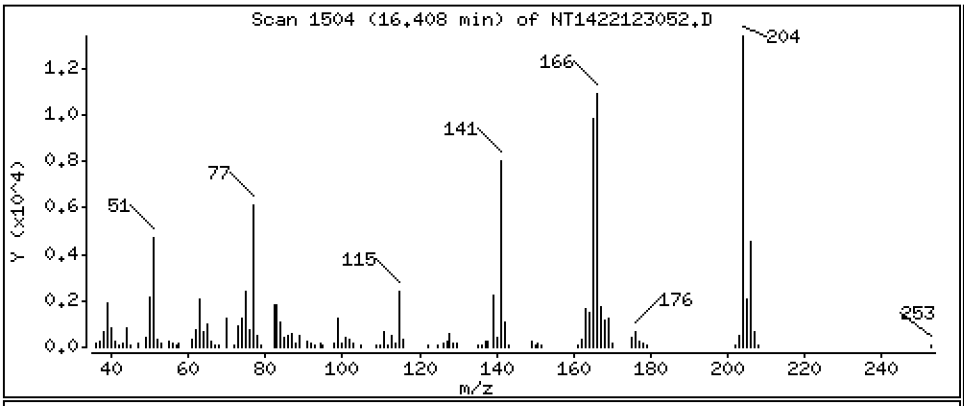
Operator: VTS

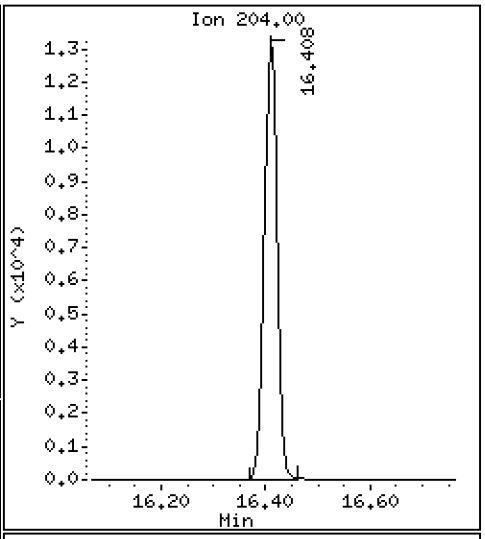
Column phase: ZB-5msi

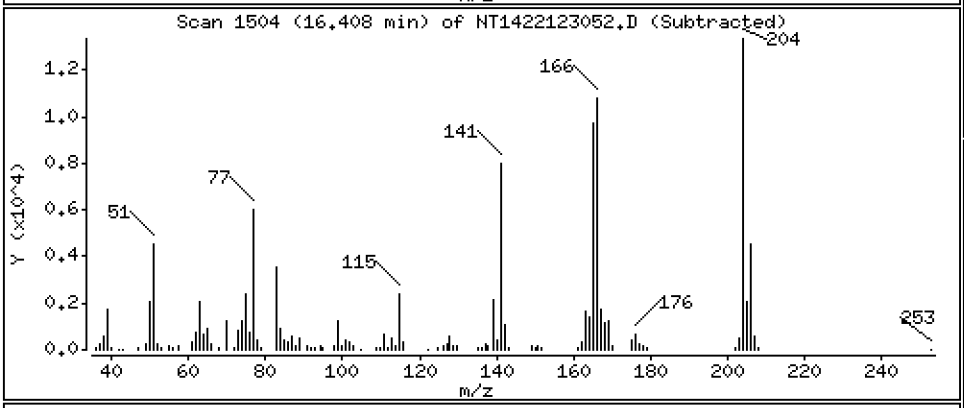
Column diameter: 0.25

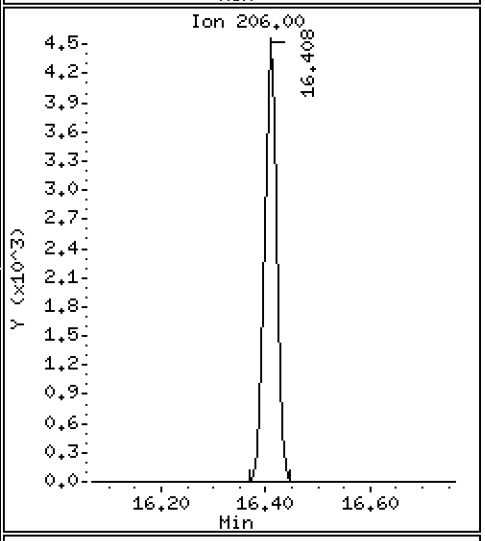
51 4-Chlorophenyl-phenylether

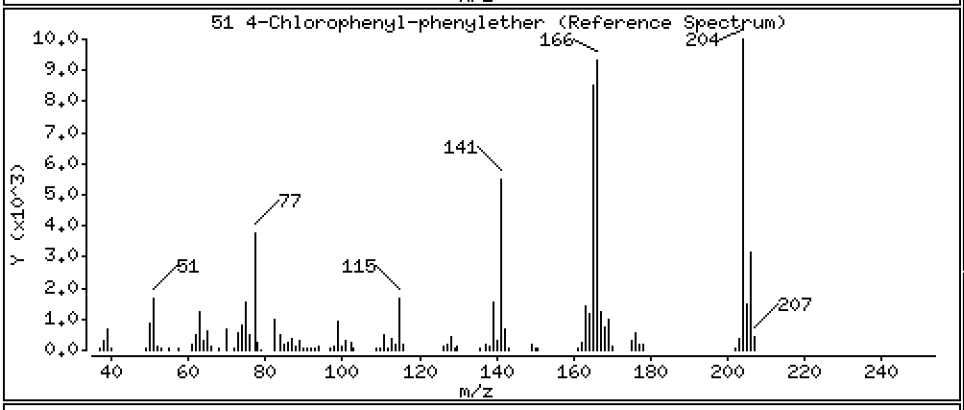
Concentration: 0.4585 ug/mL

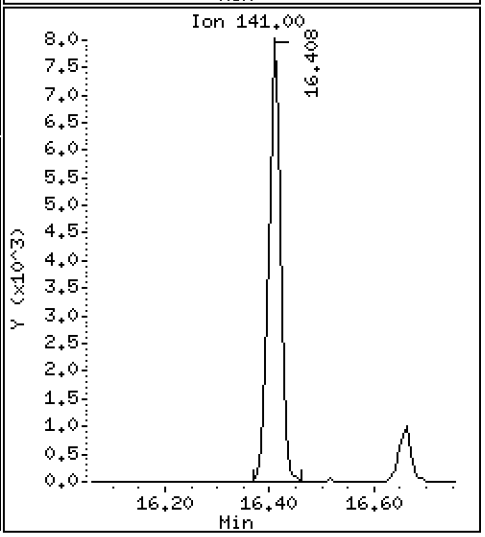


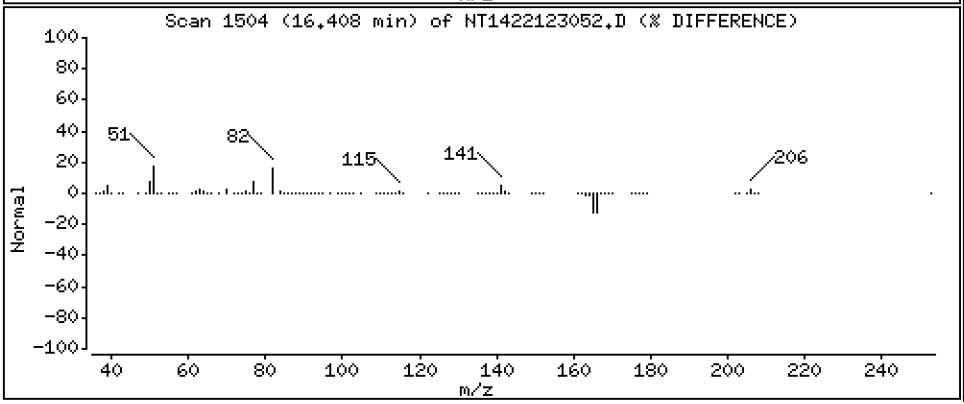












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

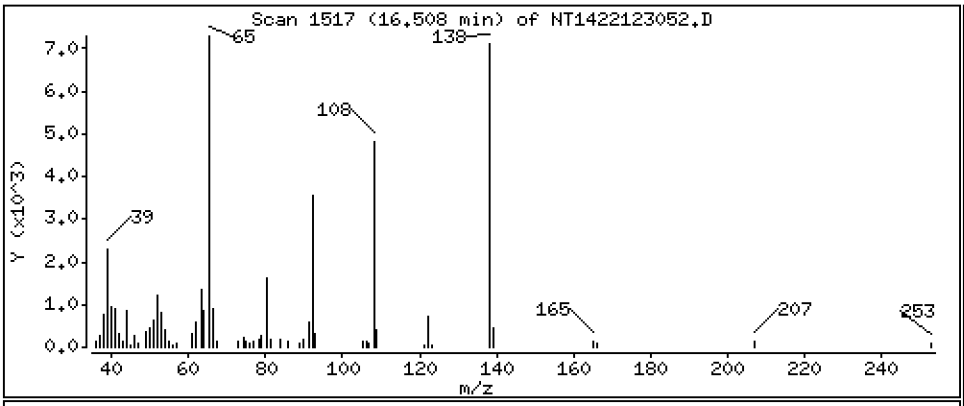
Operator: VTS

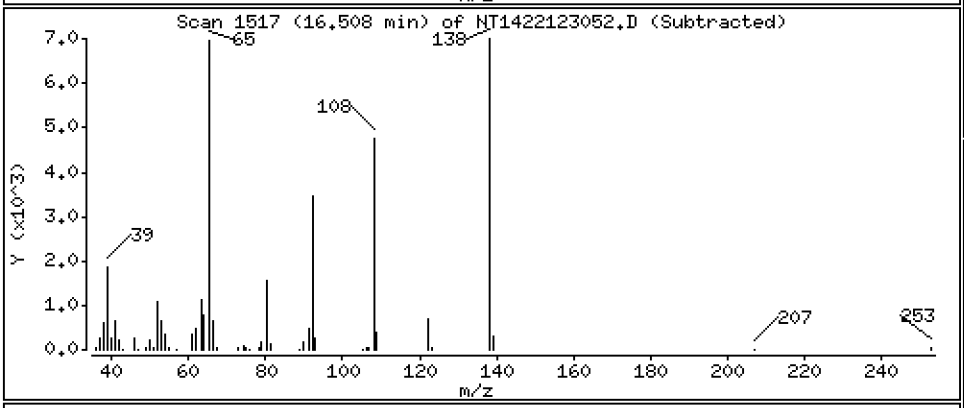
Column phase: ZB-5msi

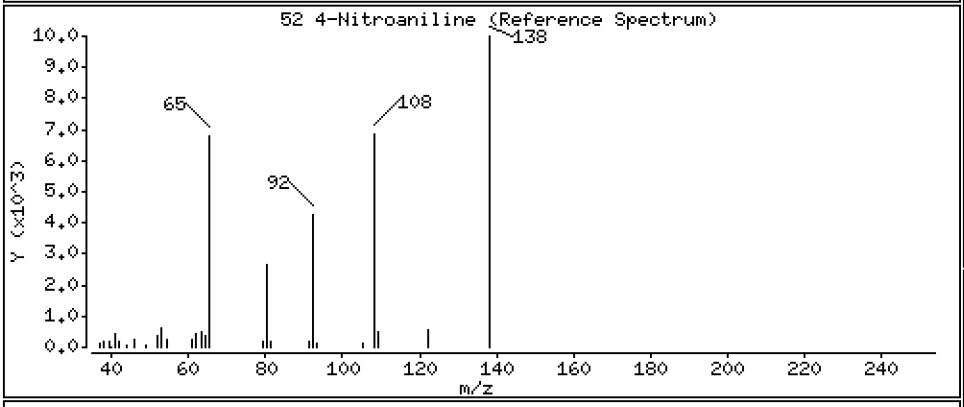
Column diameter: 0.25

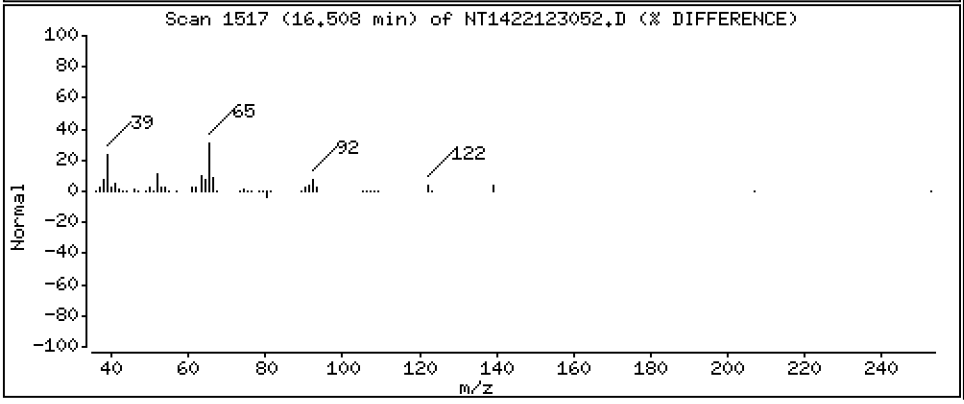
52 4-Nitroaniline

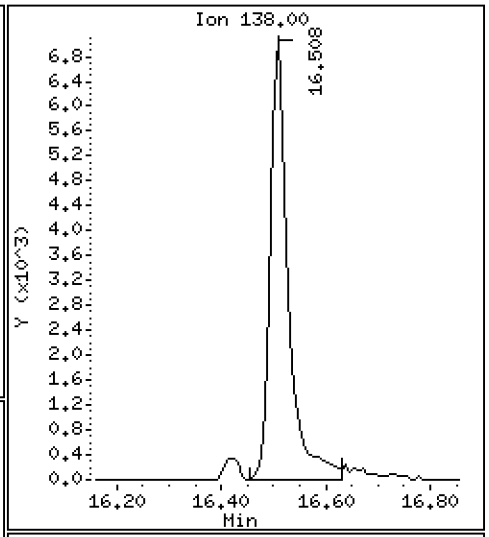
Concentration: 0.7926 ug/mL

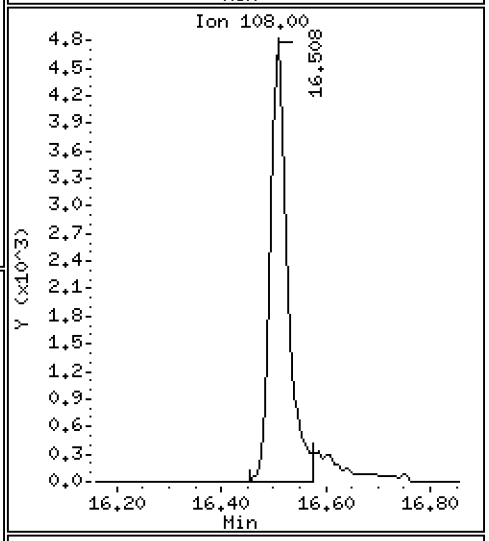


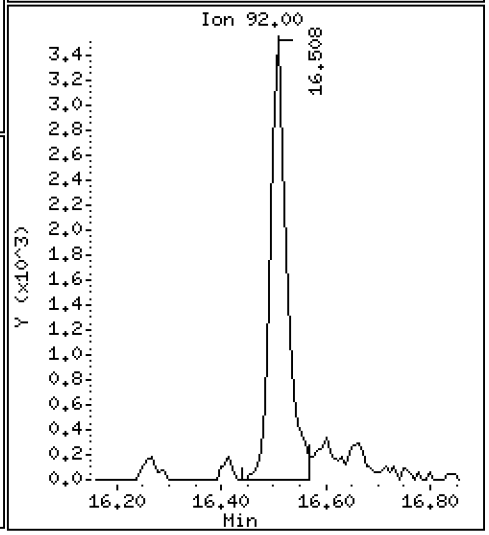












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

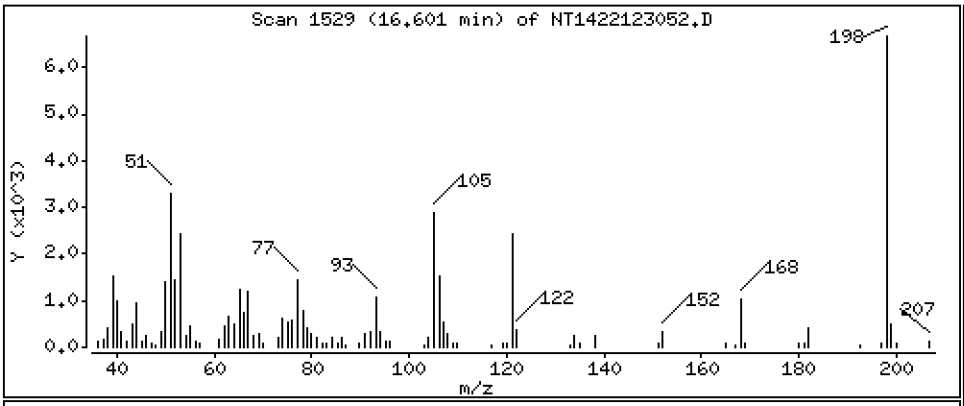
Operator: VTS

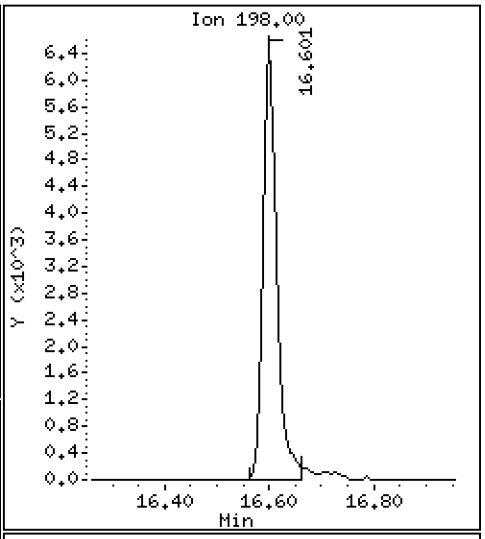
Column phase: ZB-5msi

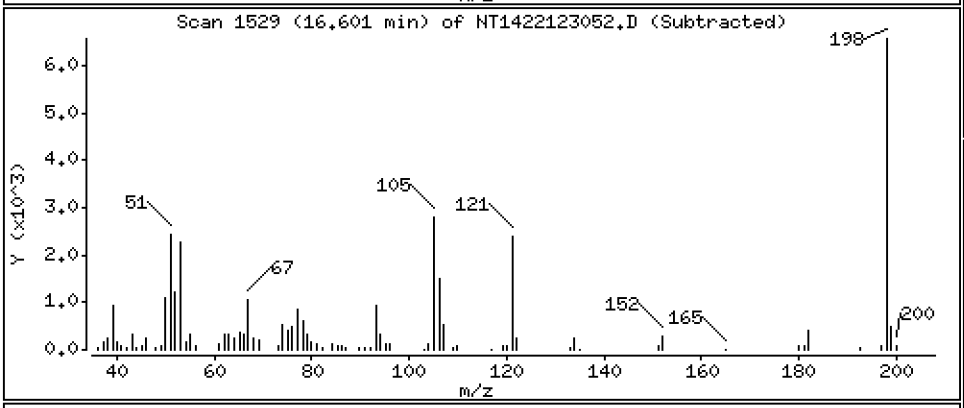
Column diameter: 0.25

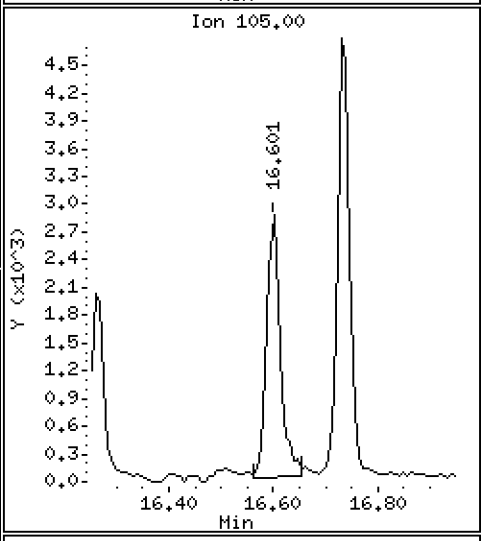
53 4,6-Dinitro-2-methylphenol

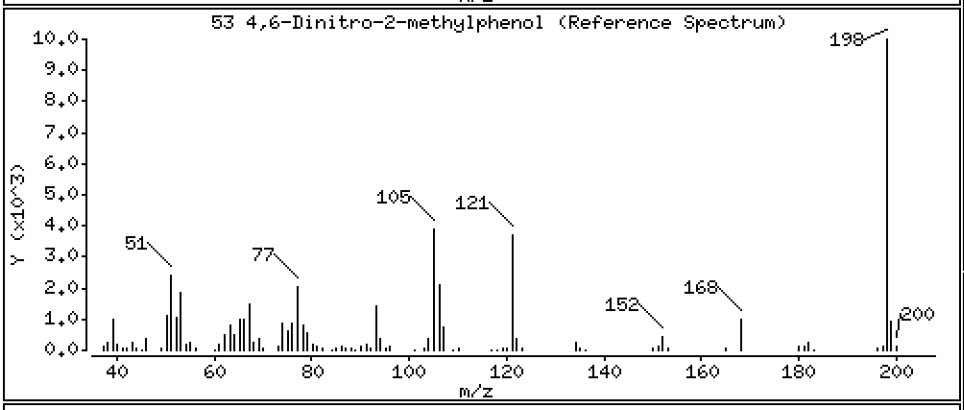
Concentration: 0.7566 ug/mL

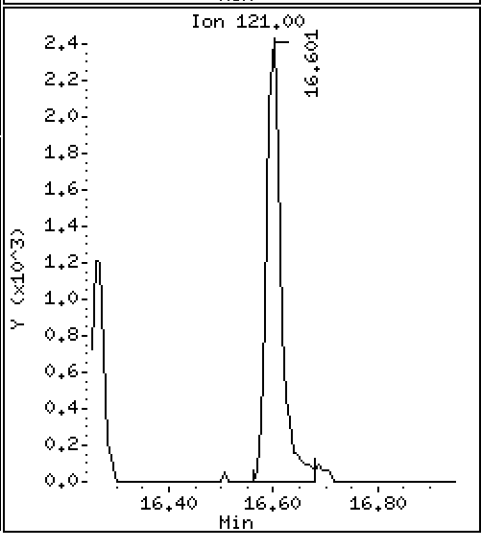


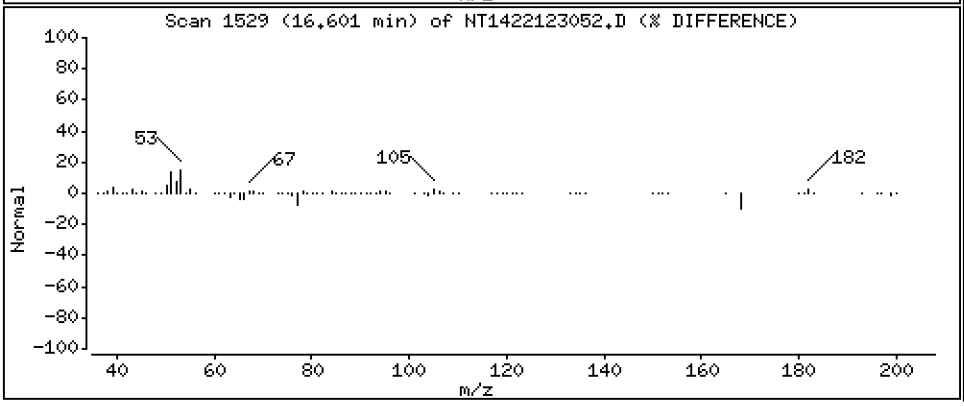












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

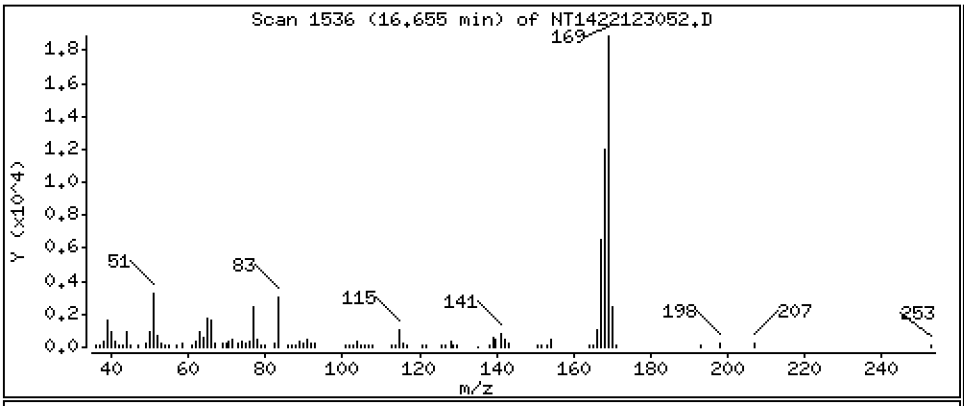
Operator: VTS

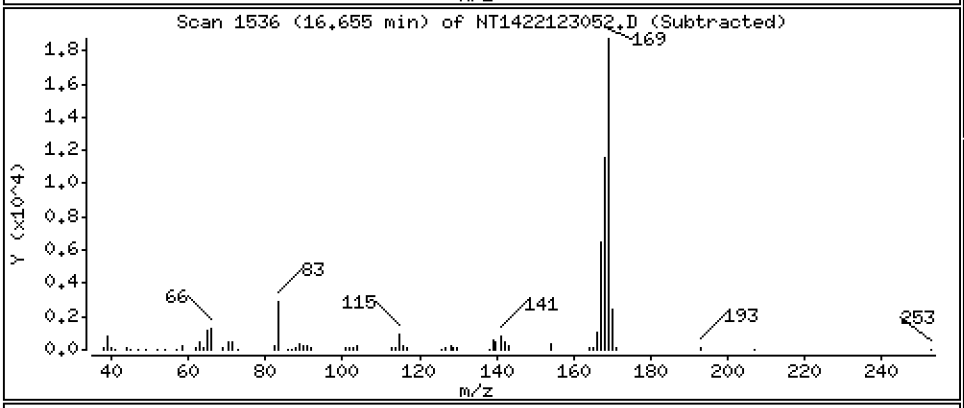
Column phase: ZB-5msi

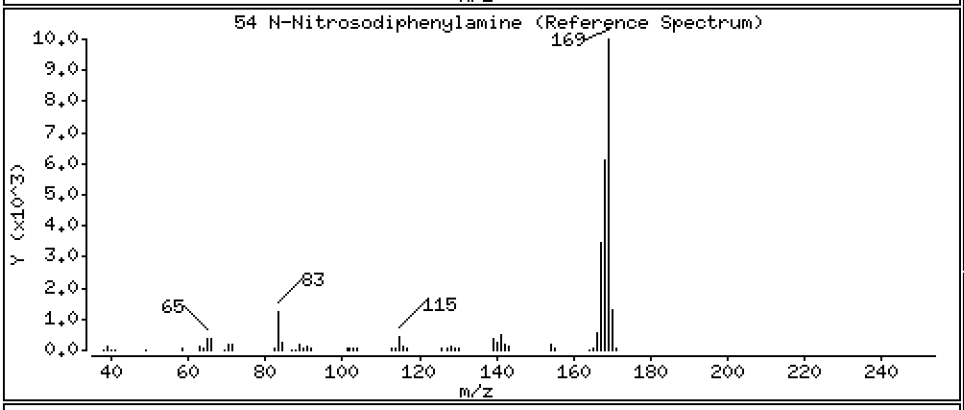
Column diameter: 0.25

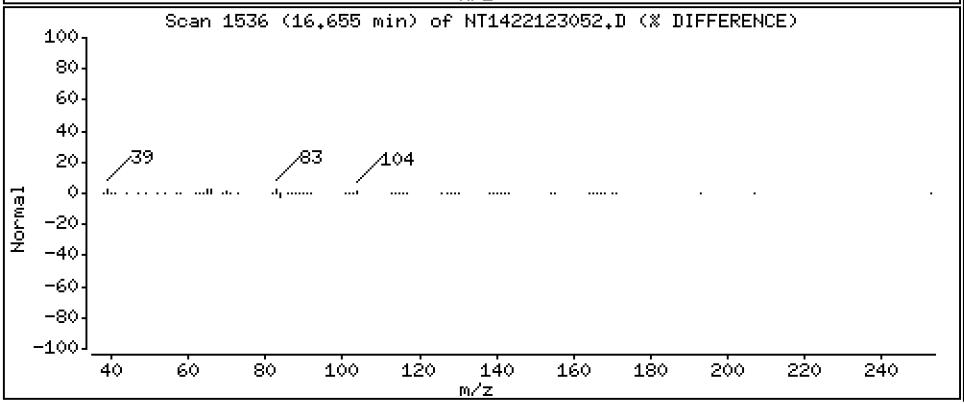
54 N-Nitrosodiphenylamine

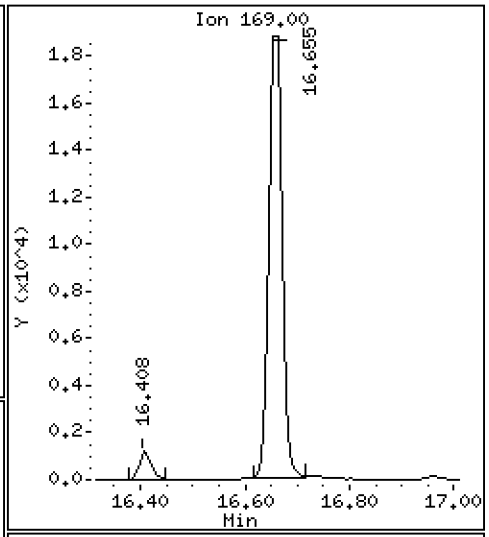
Concentration: 0.5113 ug/mL

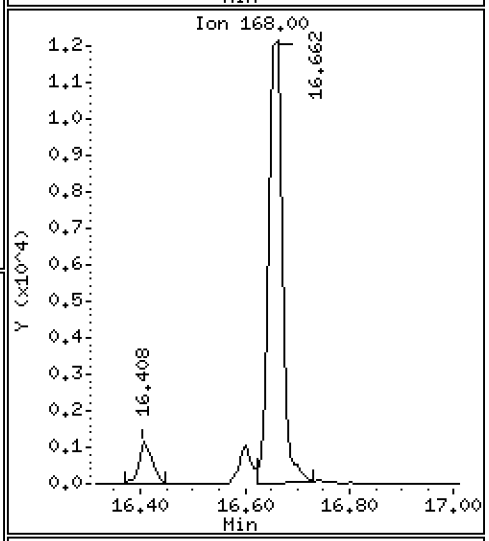


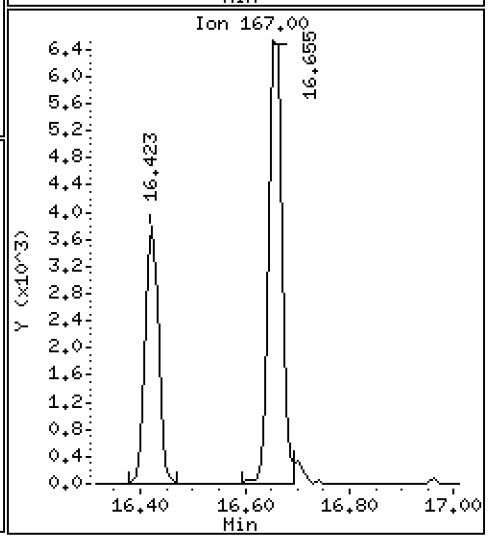












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

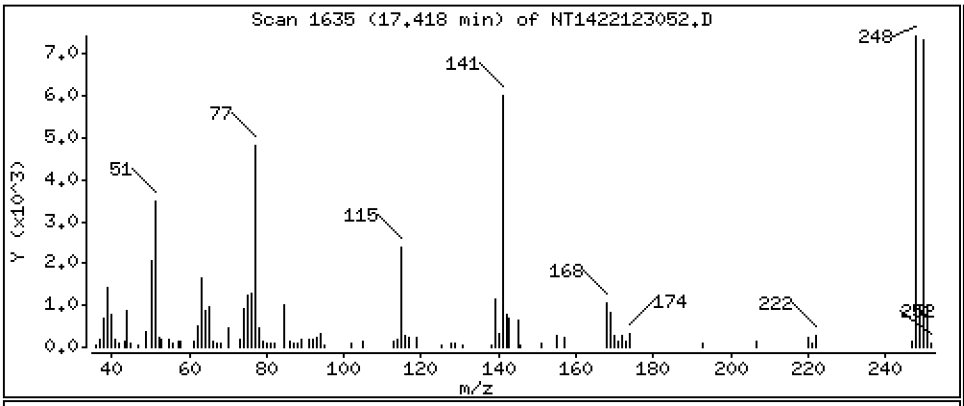
Operator: VTS

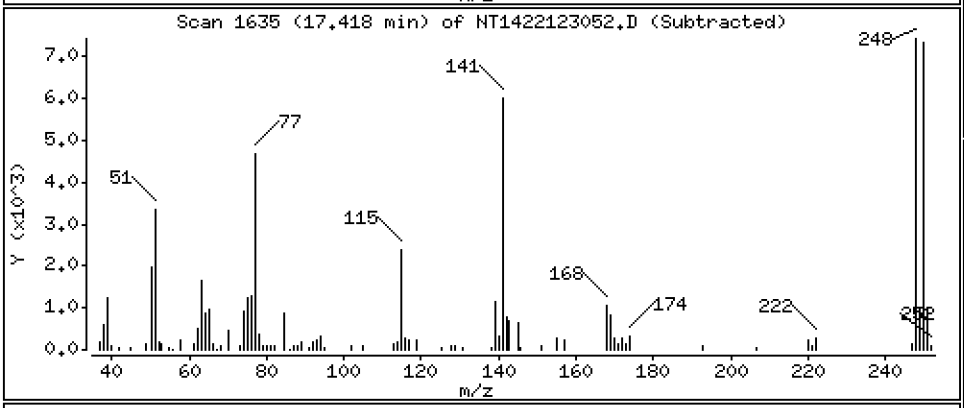
Column phase: ZB-5msi

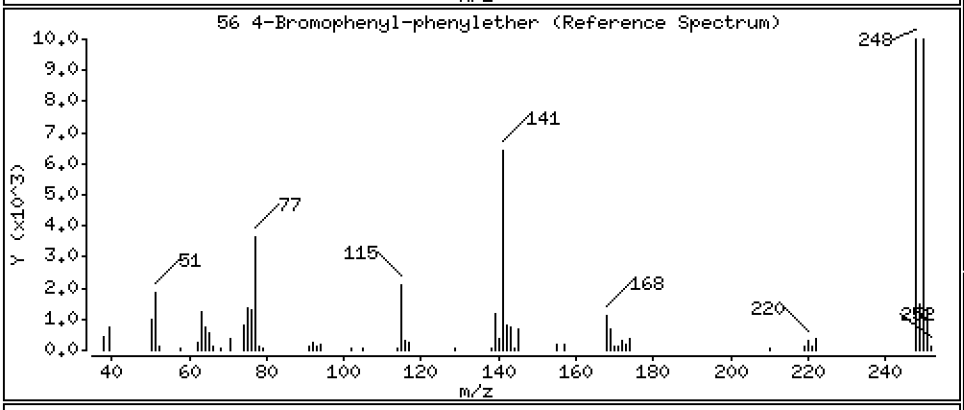
Column diameter: 0.25

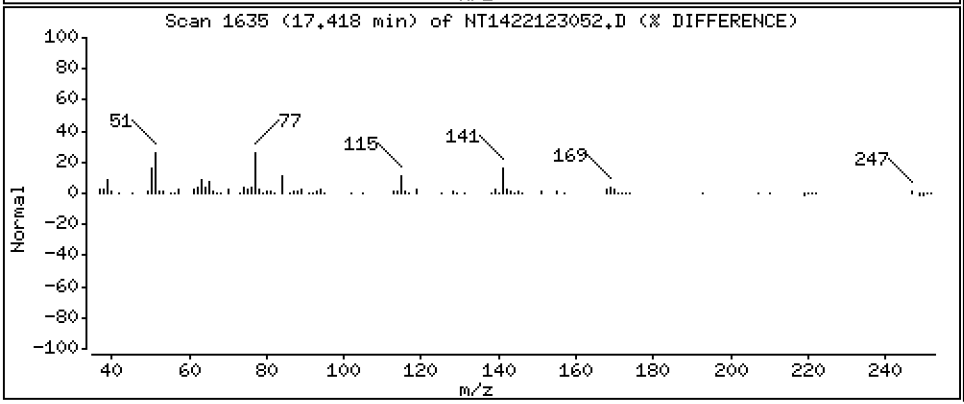
56 4-Bromophenyl-phenylether

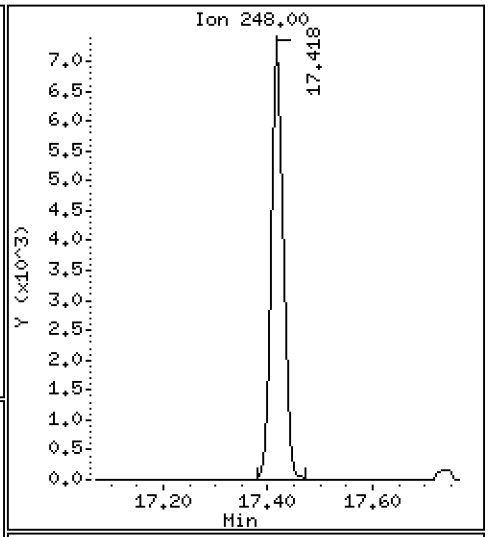
Concentration: 0.4903 ug/mL

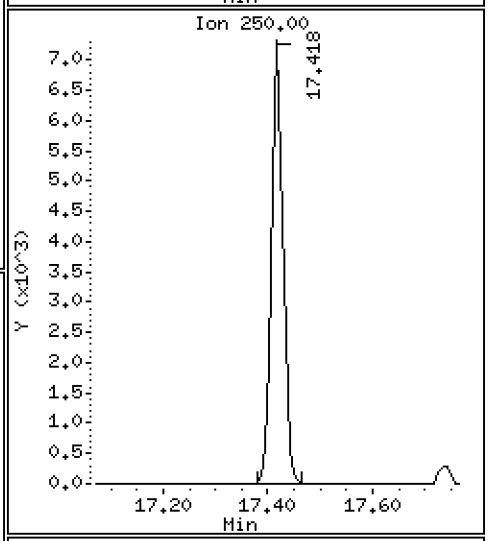


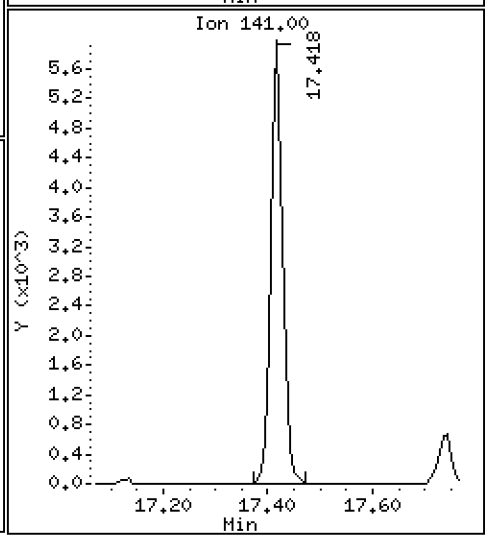












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

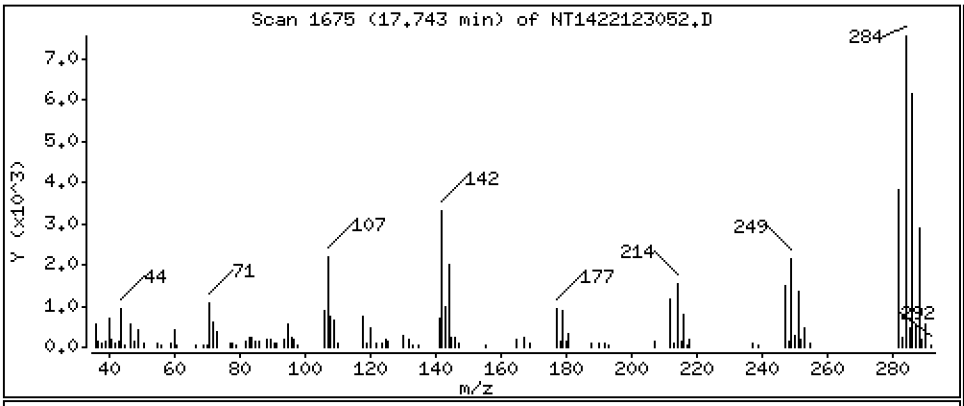
Operator: VTS

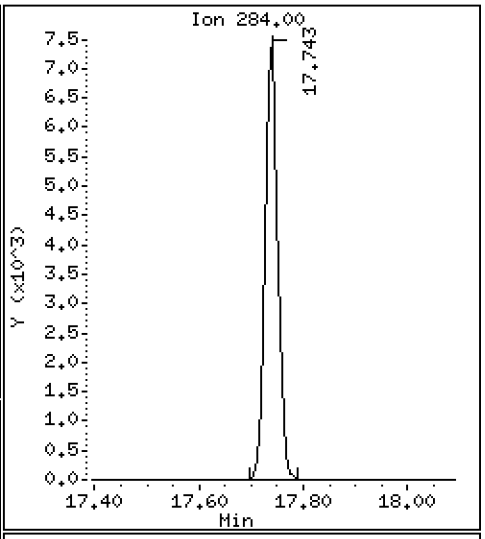
Column phase: ZB-5msi

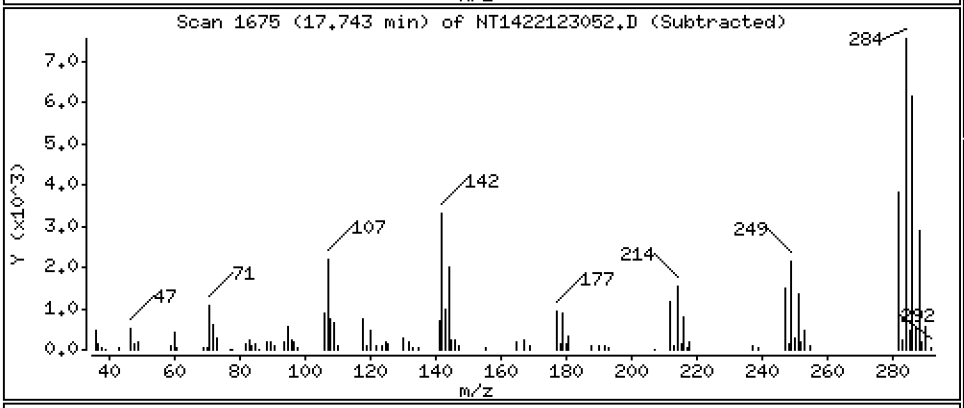
Column diameter: 0.25

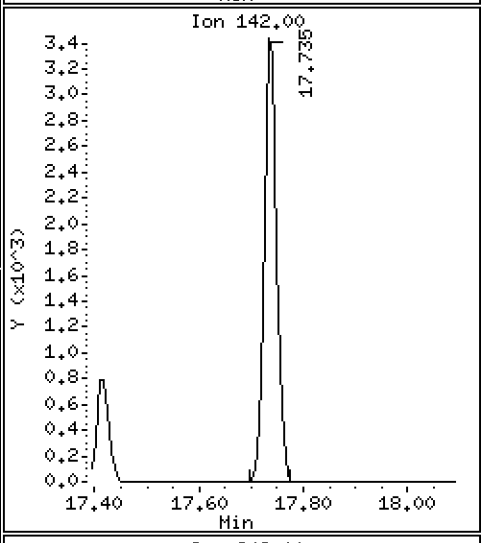
57 Hexachlorobenzene

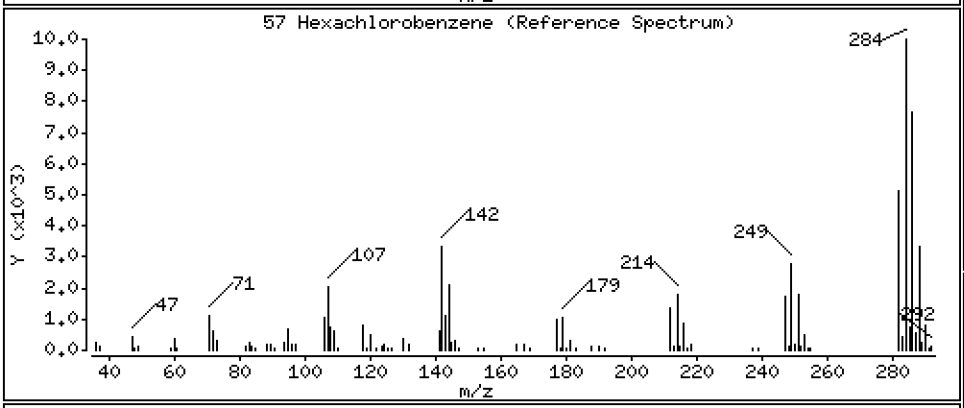
Concentration: 0.4900 ug/mL

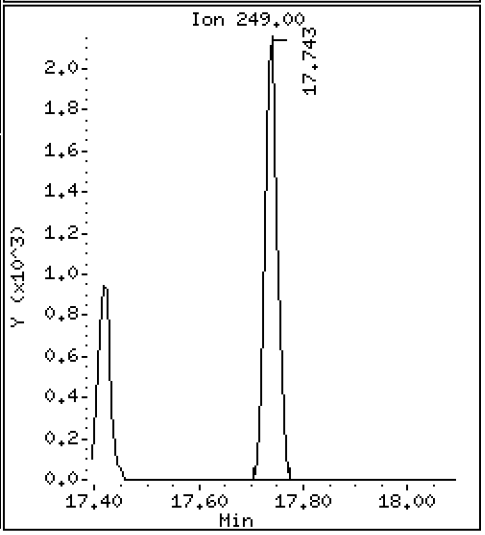


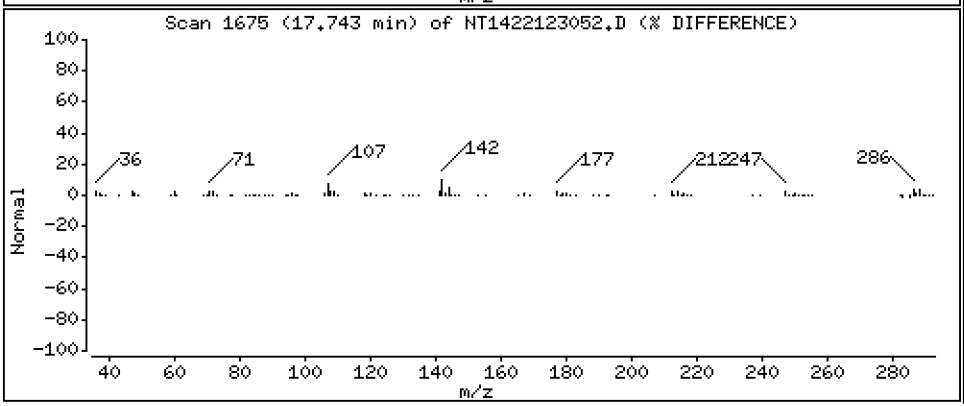












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

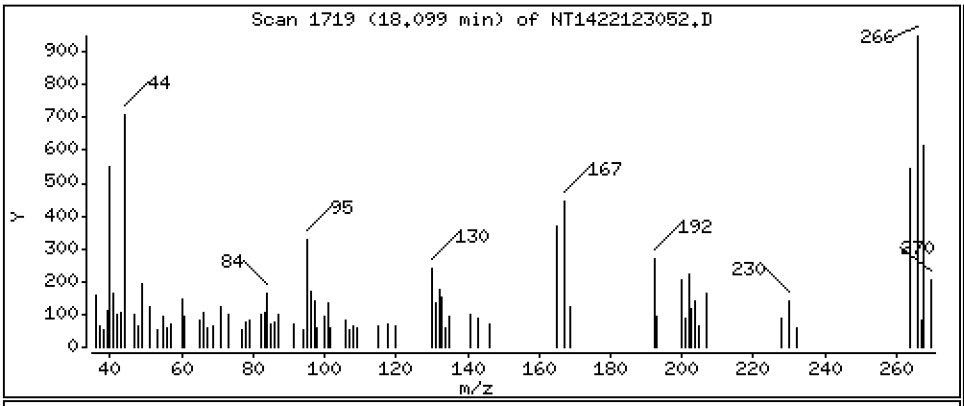
Operator: VTS

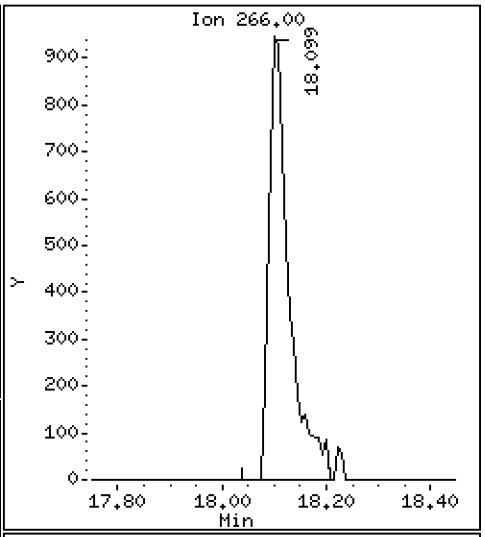
Column phase: ZB-5msi

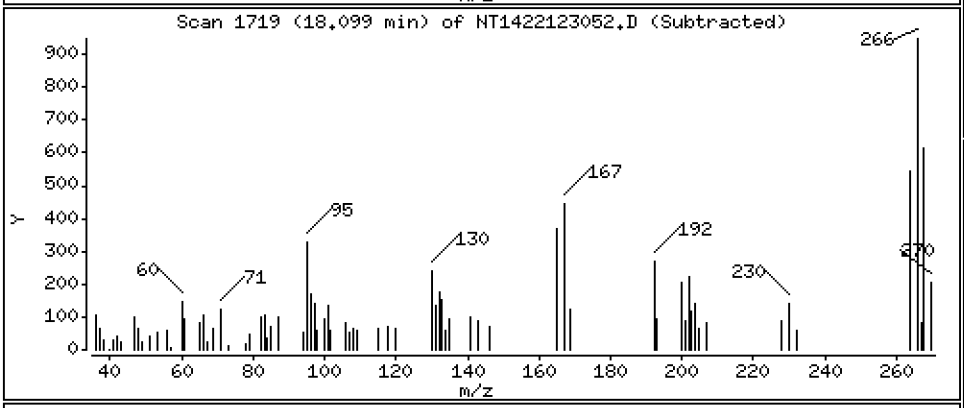
Column diameter: 0.25

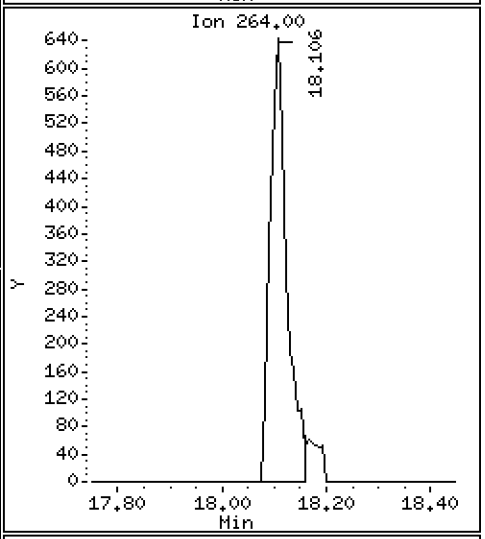
58 Pentachlorophenol

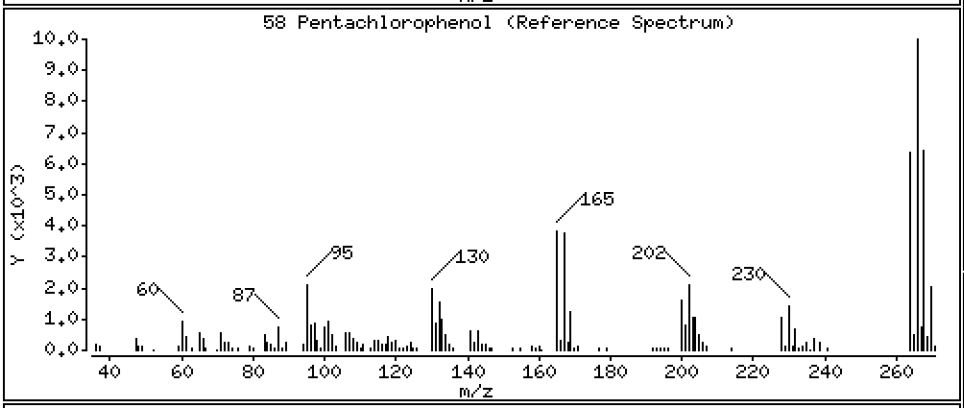
Concentration: 0.2250 ug/mL

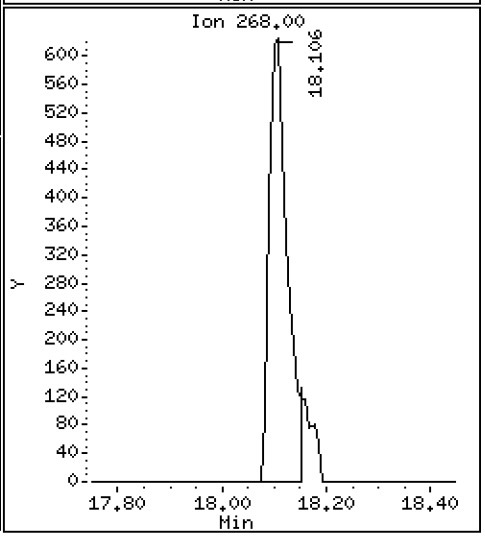


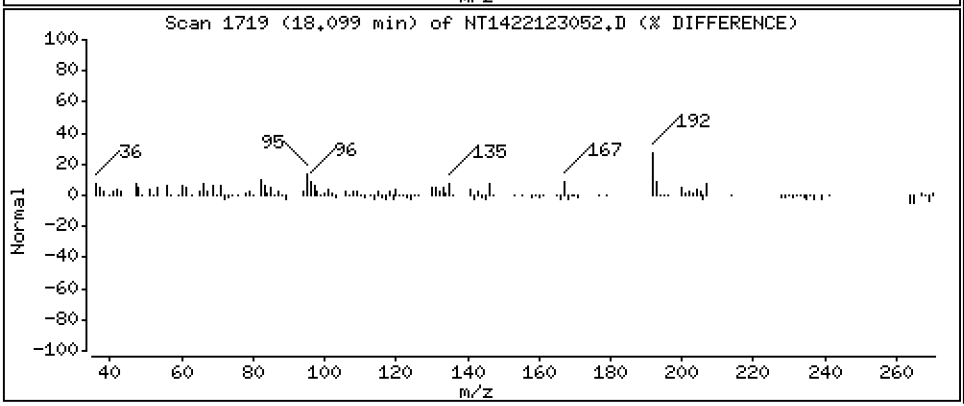












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

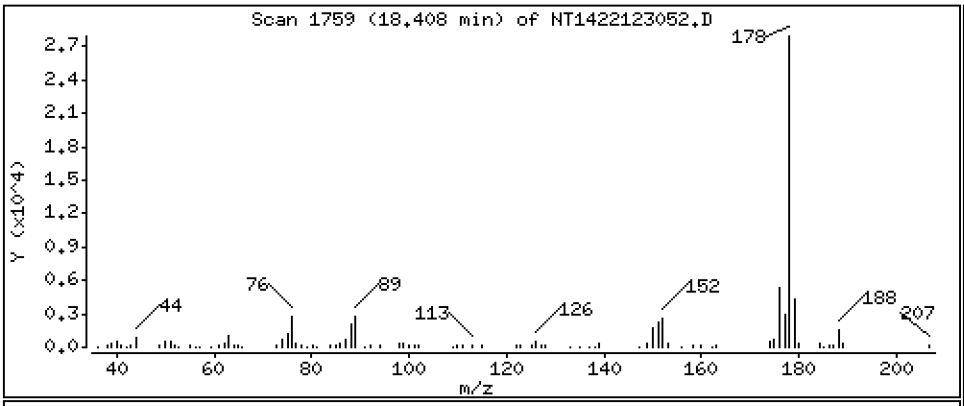
Operator: VTS

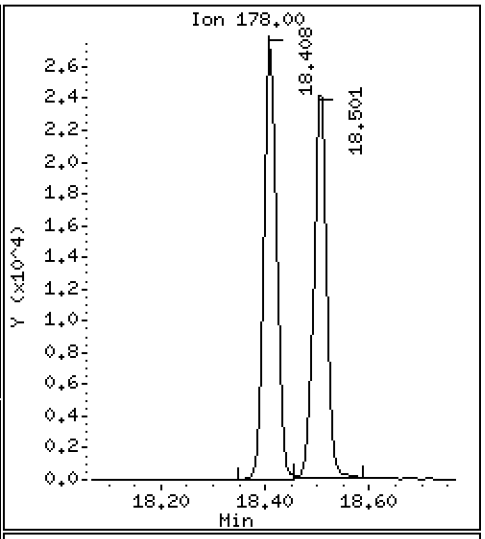
Column phase: ZB-5msi

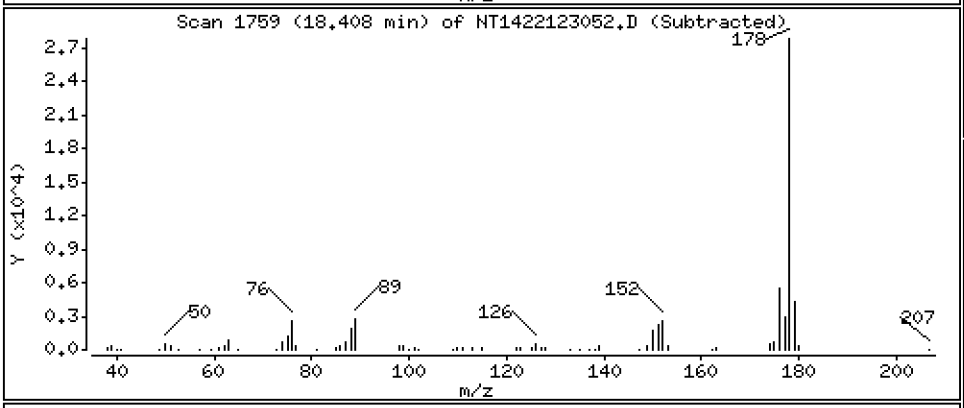
Column diameter: 0.25

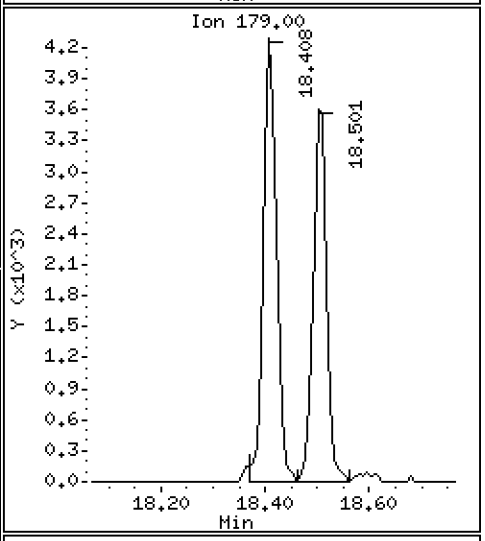
60 Phenanthrene

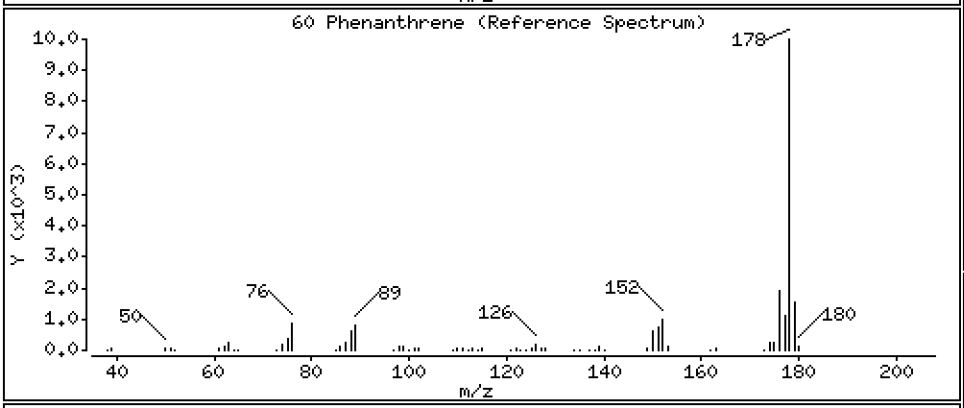
Concentration: 0.4886 ug/mL

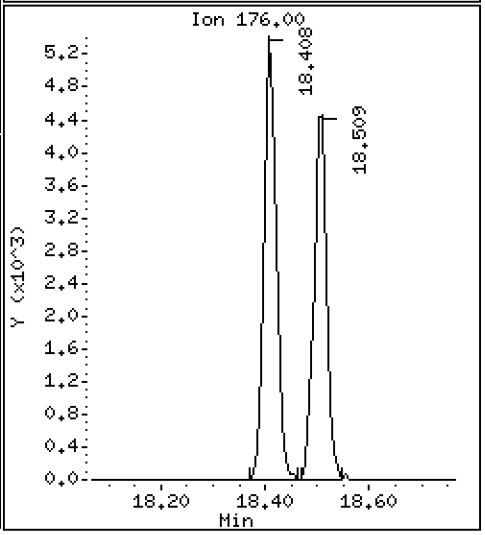


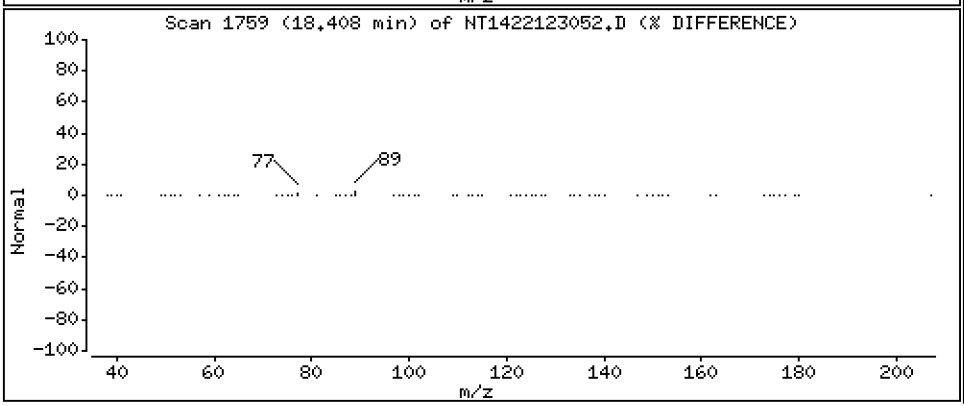












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

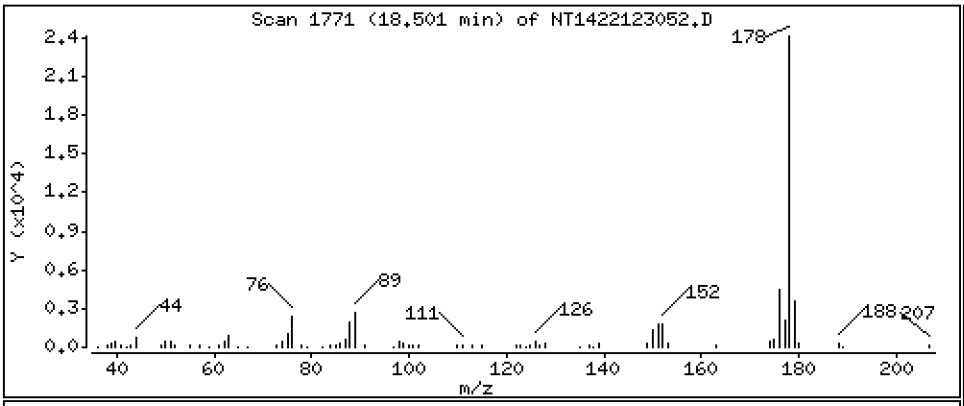
Operator: VTS

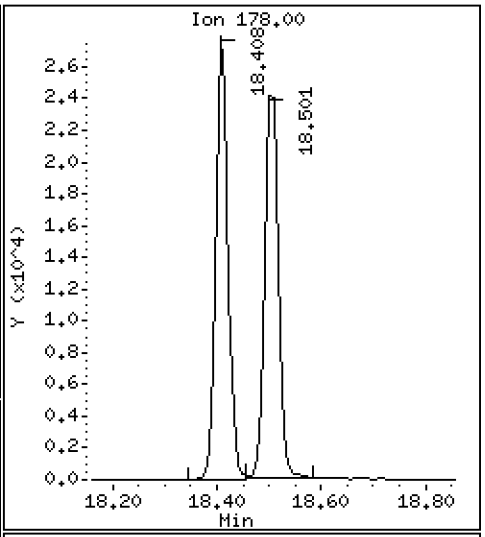
Column phase: ZB-5msi

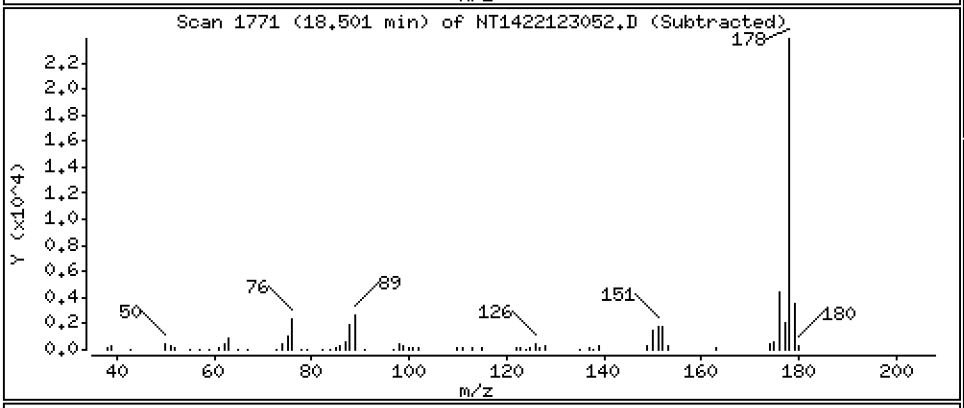
Column diameter: 0.25

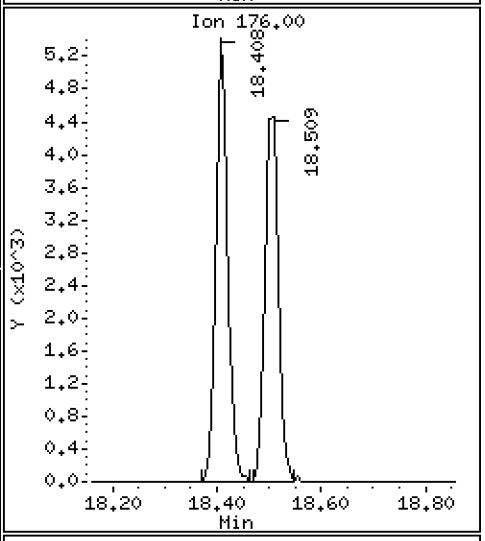
61 Anthracene

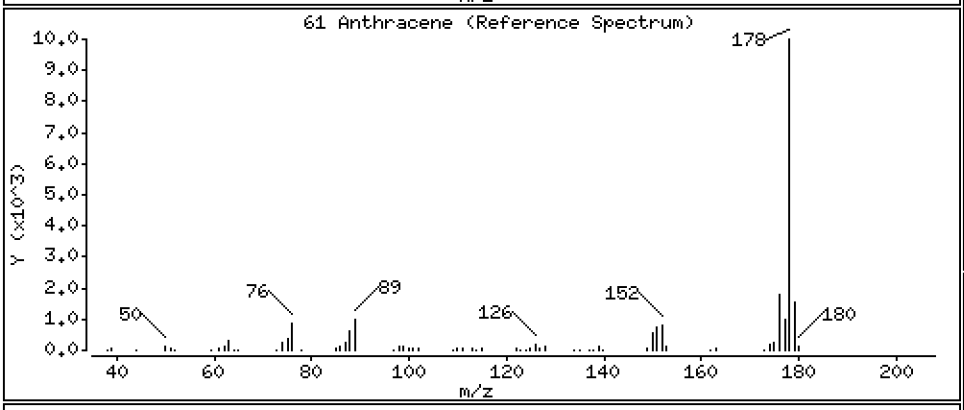
Concentration: 0.4683 ug/mL

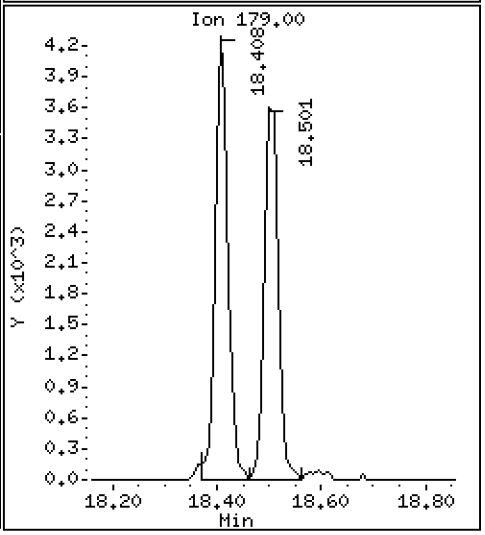


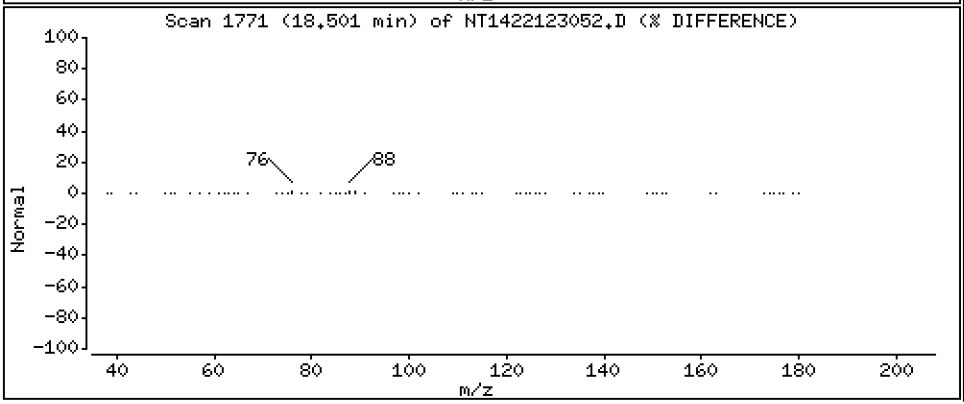












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

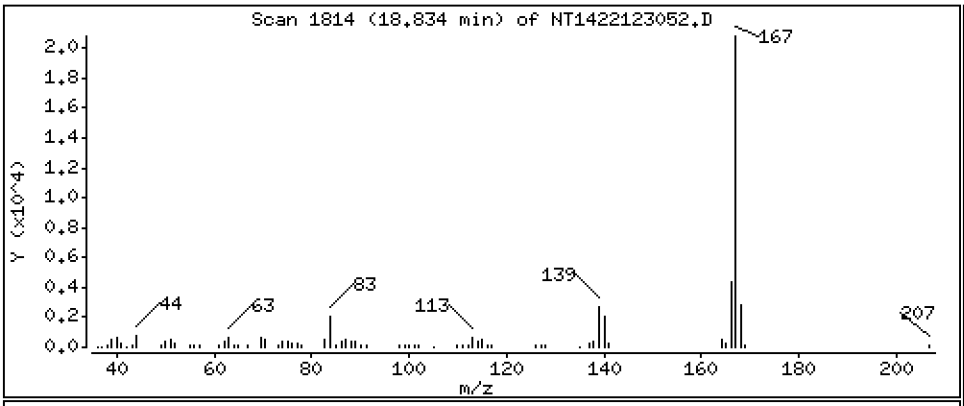
Operator: VTS

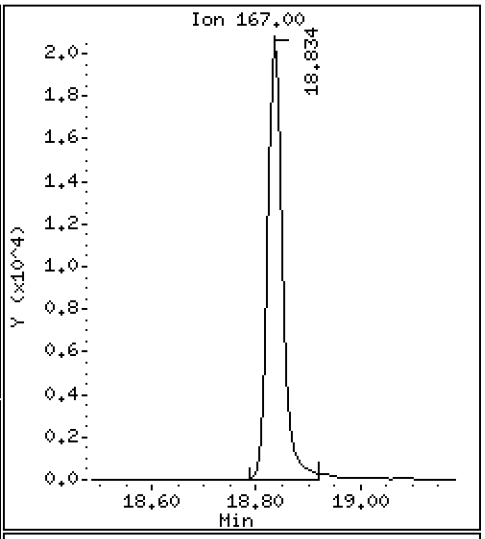
Column phase: ZB-5msi

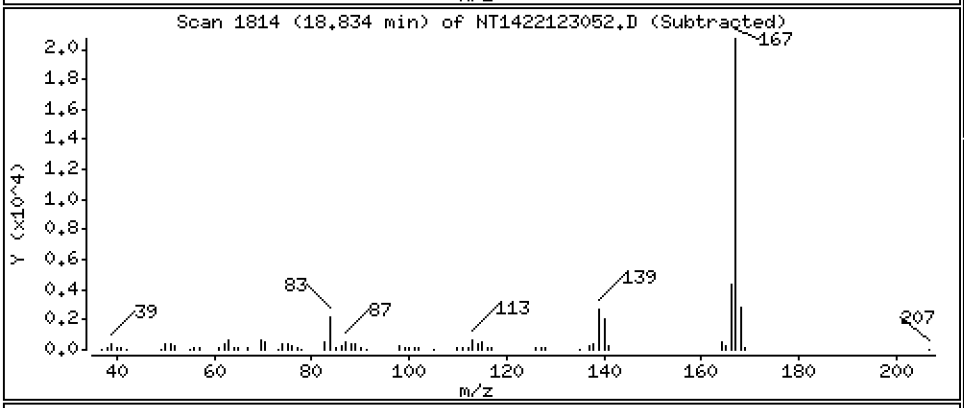
Column diameter: 0.25

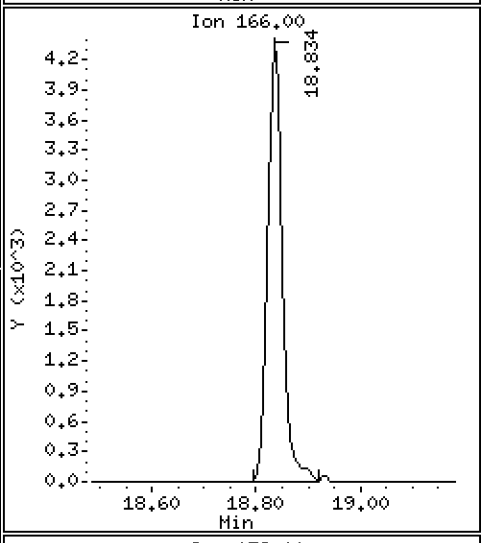
62 Carbazole

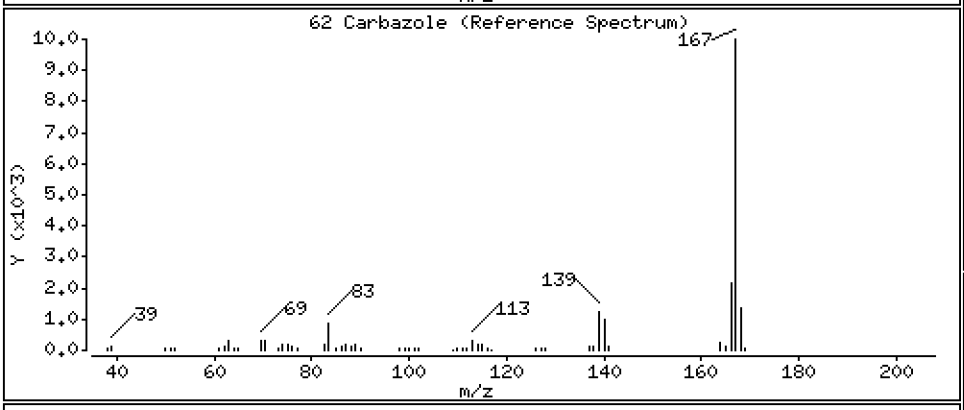
Concentration: 0.4608 ug/mL

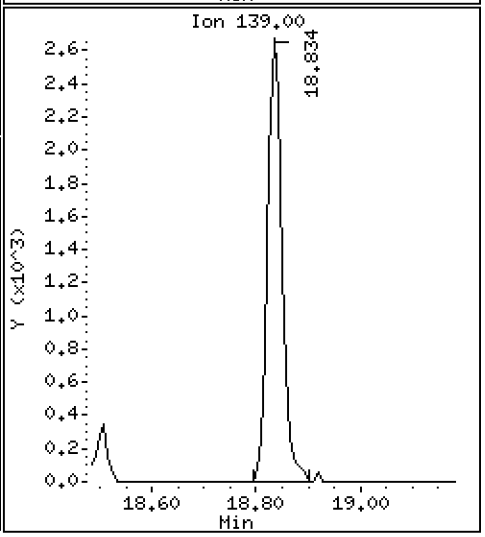


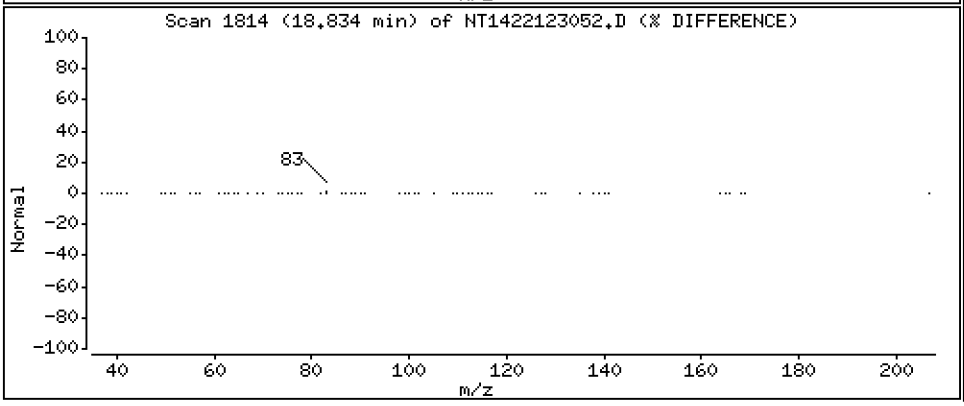












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

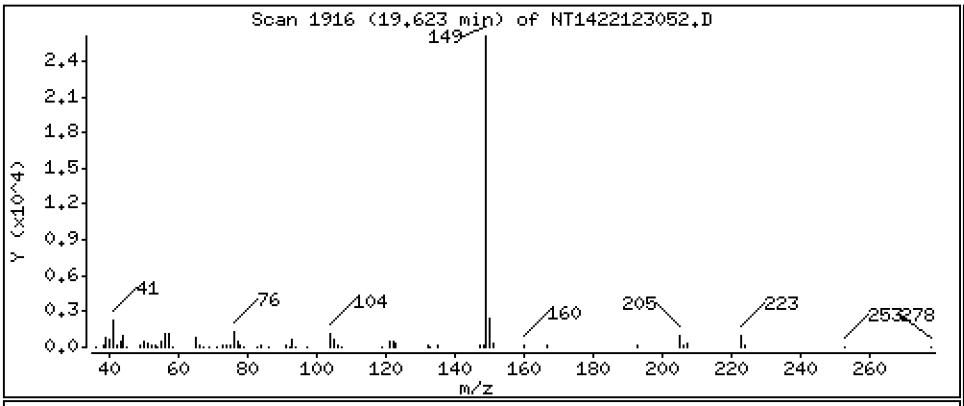
Operator: VTS

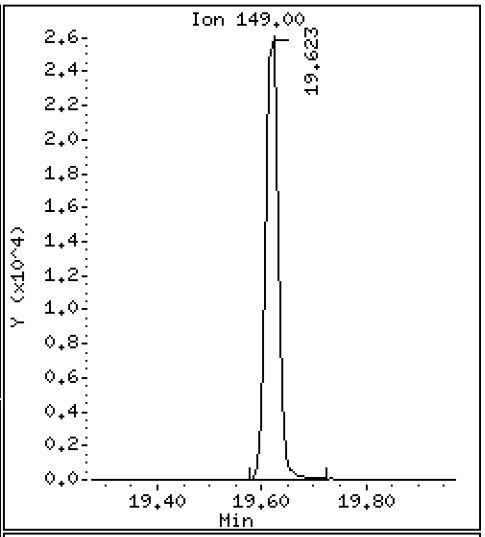
Column phase: ZB-5msi

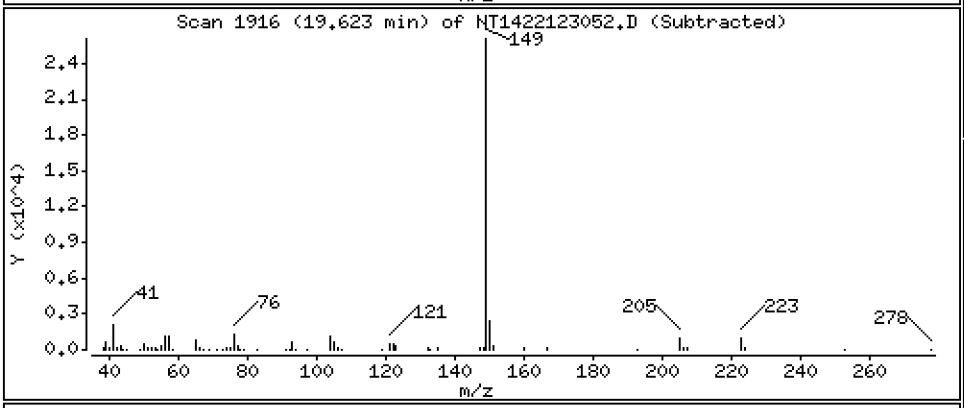
Column diameter: 0.25

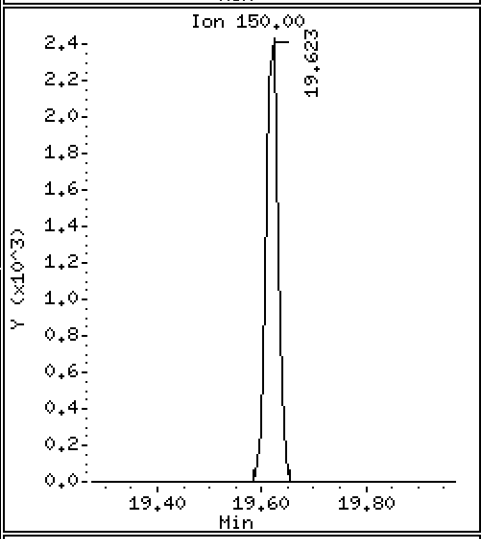
63 Di-n-butylphthalate

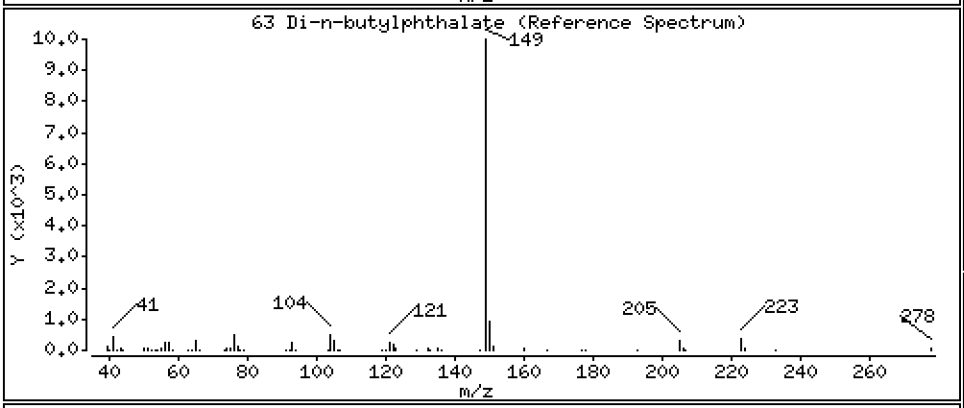
Concentration: 0.4286 ug/mL

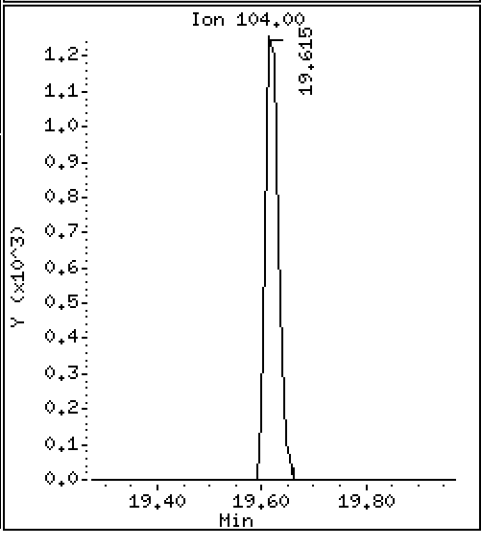


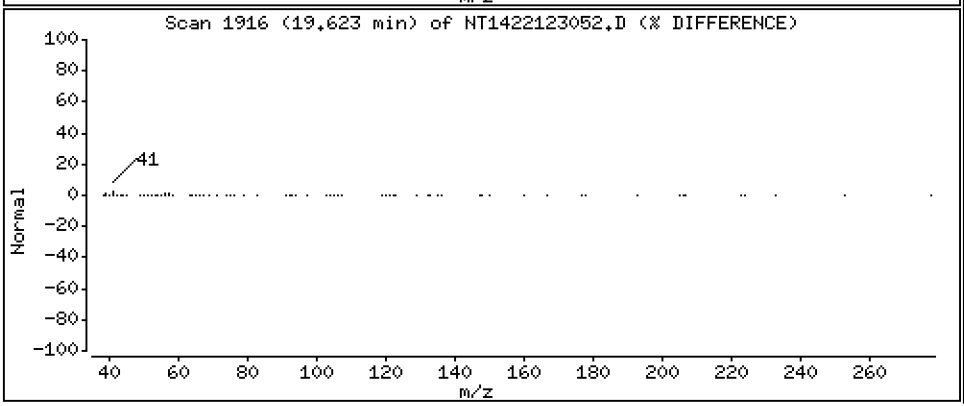












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

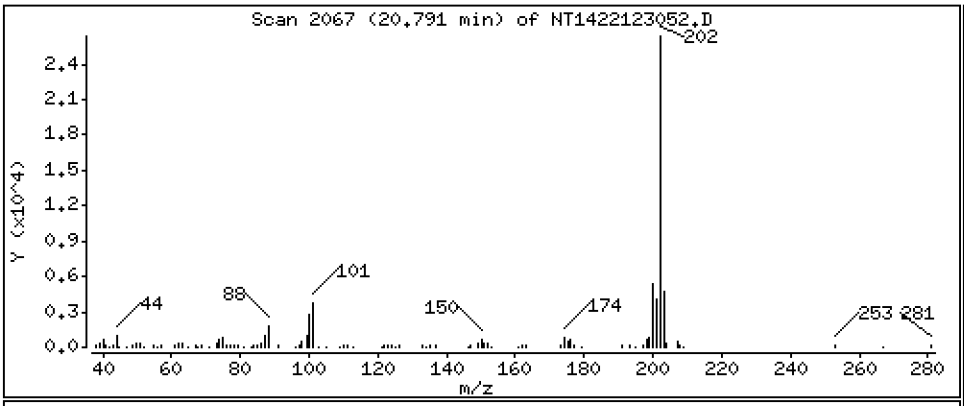
Operator: VTS

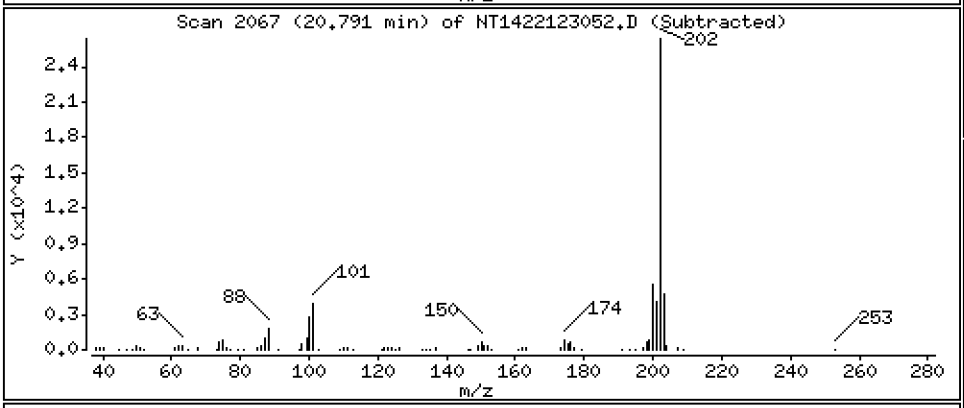
Column phase: ZB-5msi

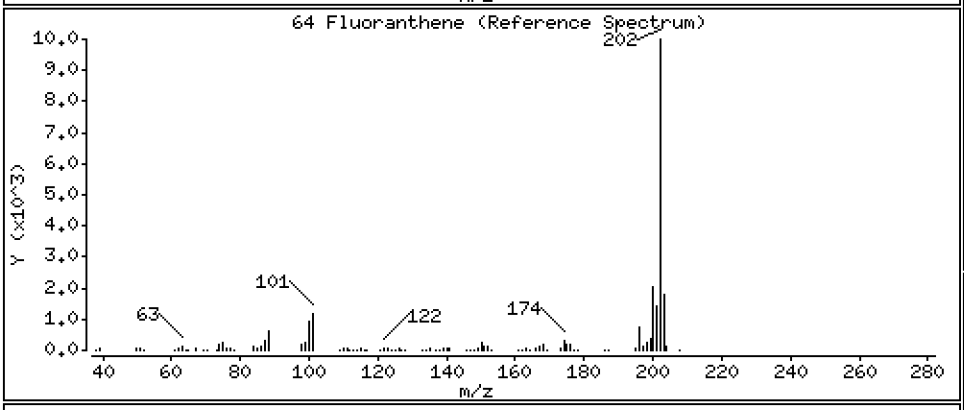
Column diameter: 0.25

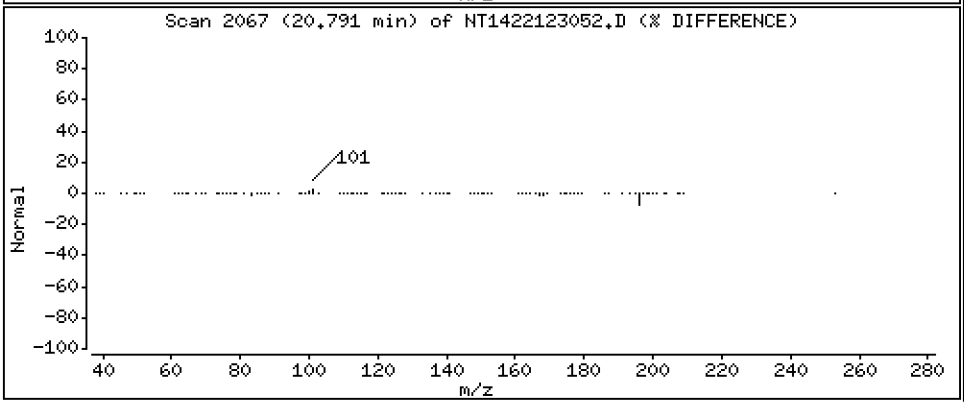
64 Fluoranthene

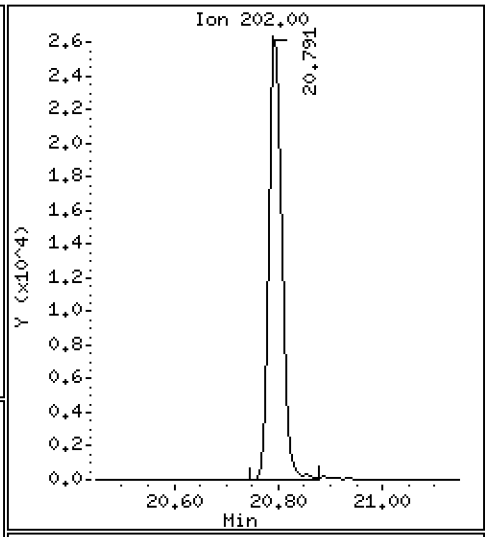
Concentration: 0.4643 ug/mL

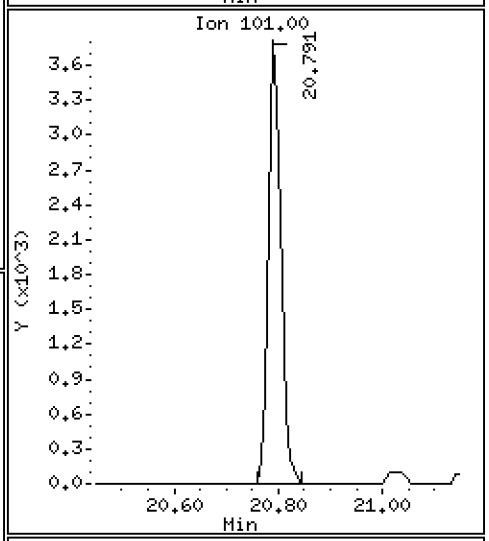


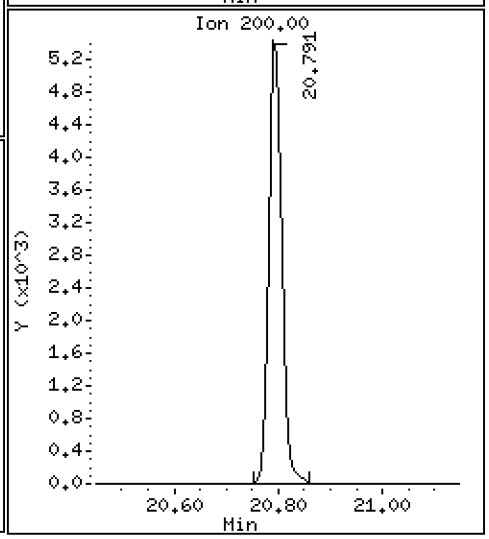












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

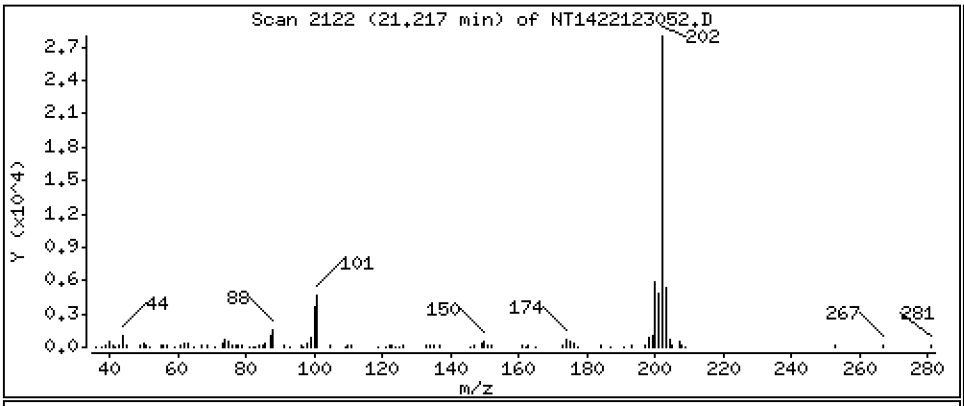
Operator: VTS

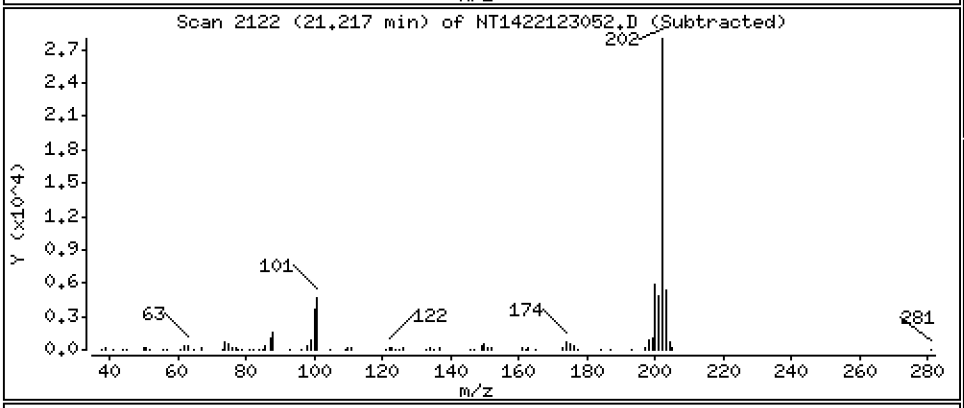
Column phase: ZB-5msi

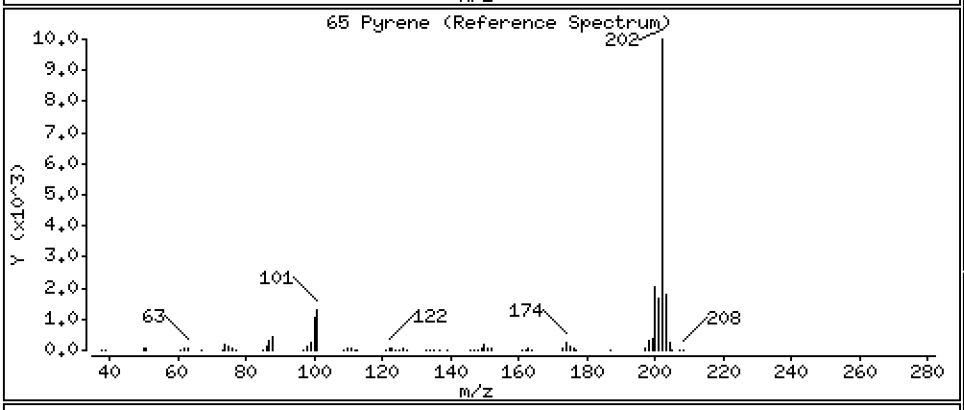
Column diameter: 0.25

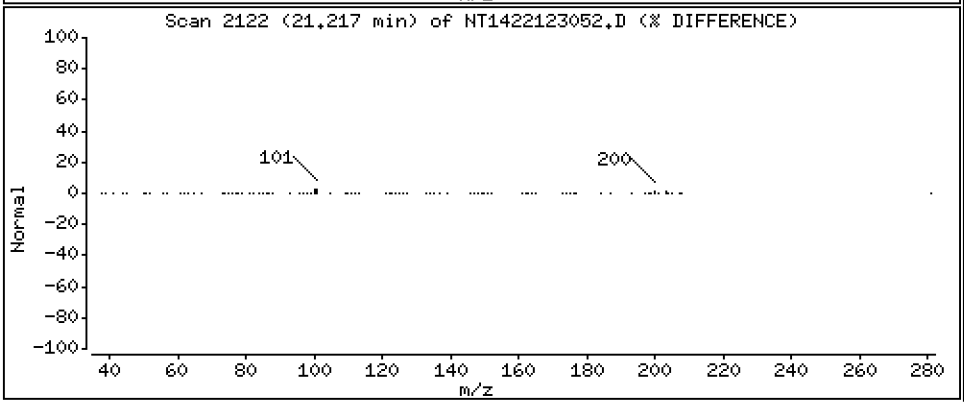
65 Pyrene

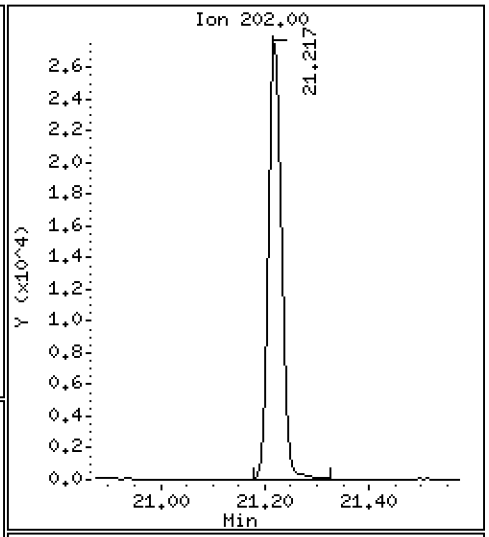
Concentration: 0.4679 ug/mL

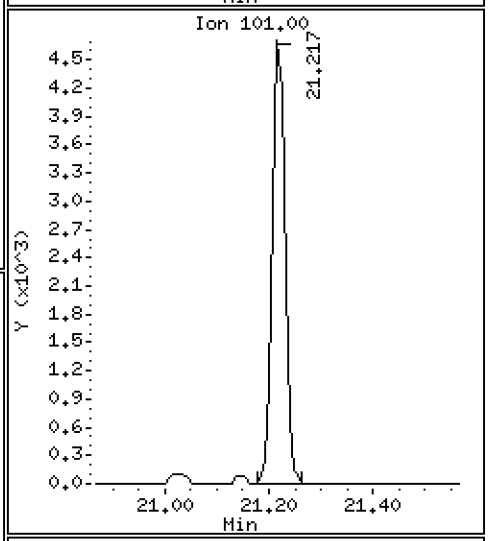


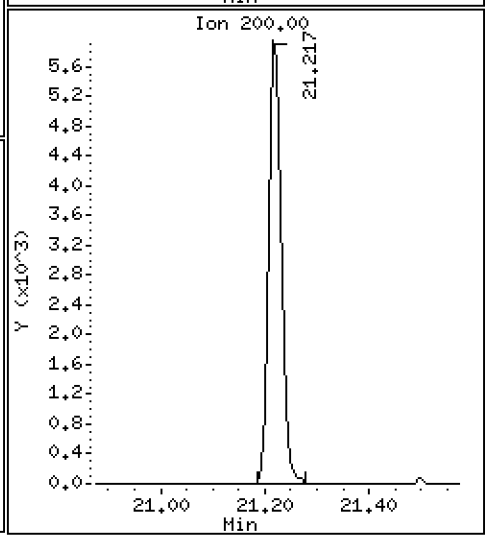












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

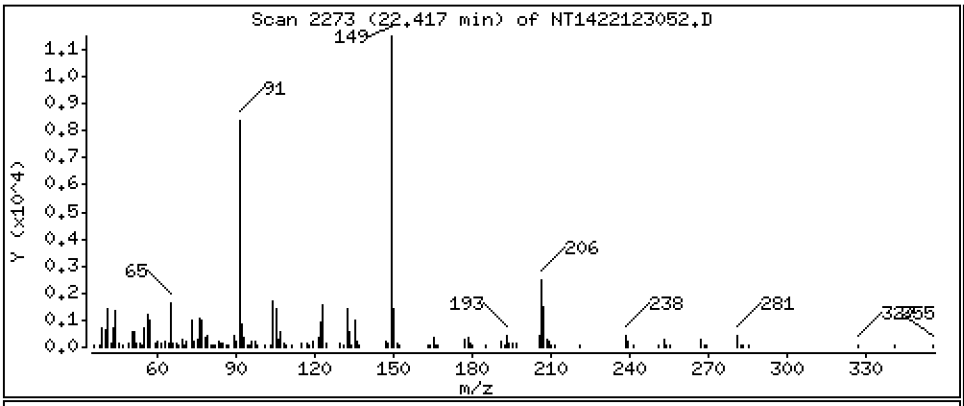
Operator: VTS

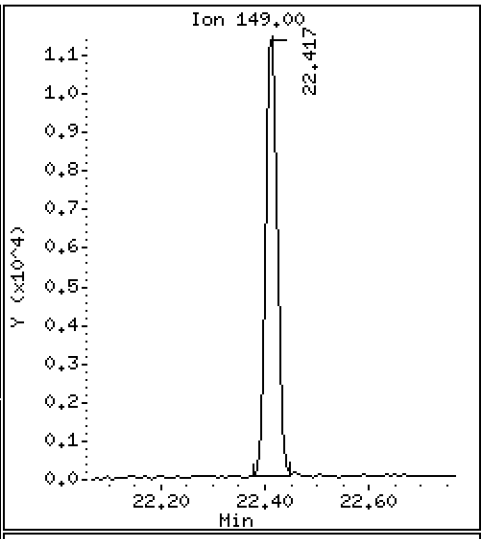
Column phase: ZB-5msi

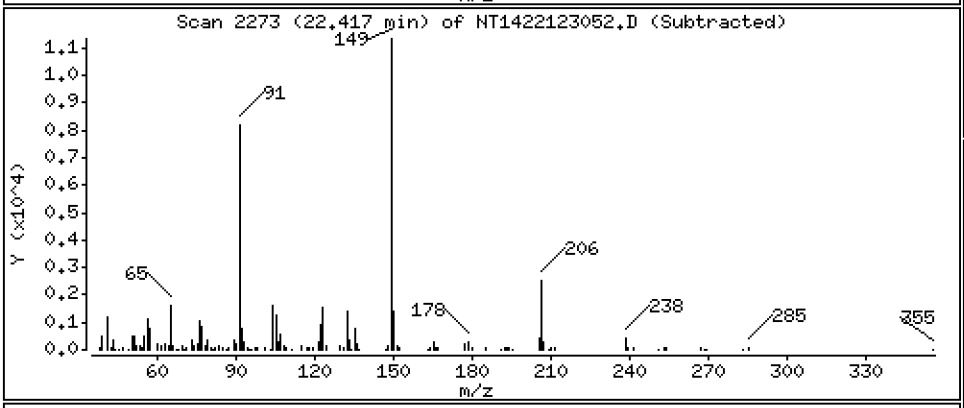
Column diameter: 0.25

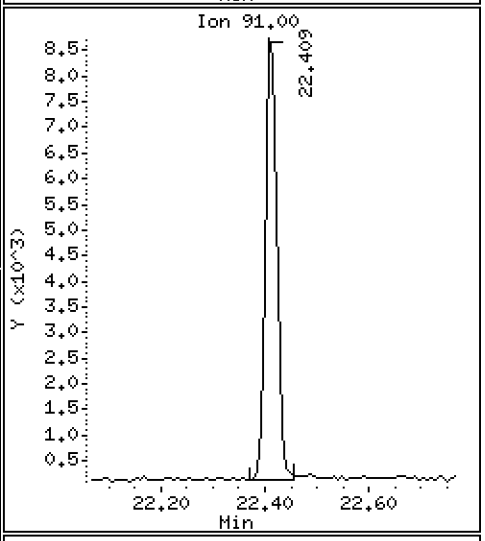
67 Butylbenzylphthalate

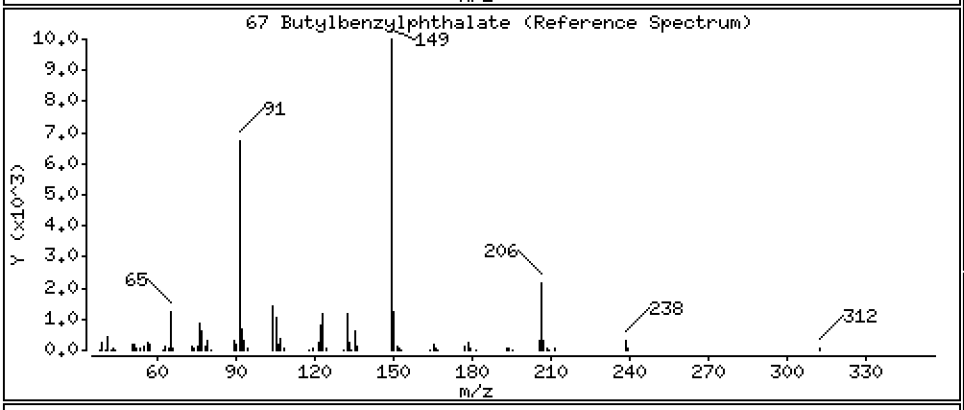
Concentration: 0.4436 ug/mL

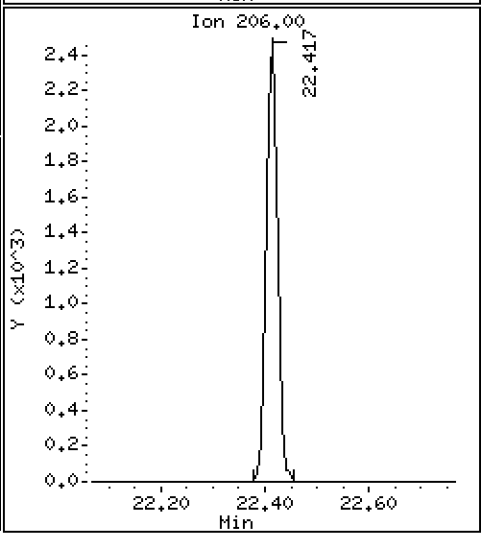


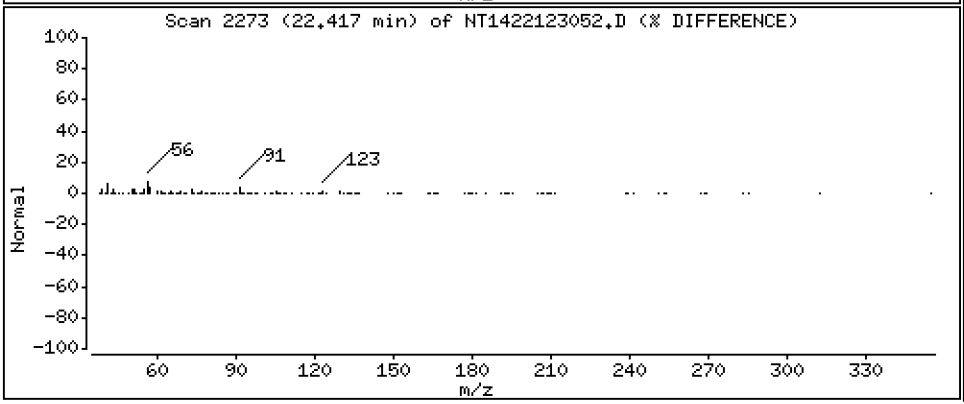












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

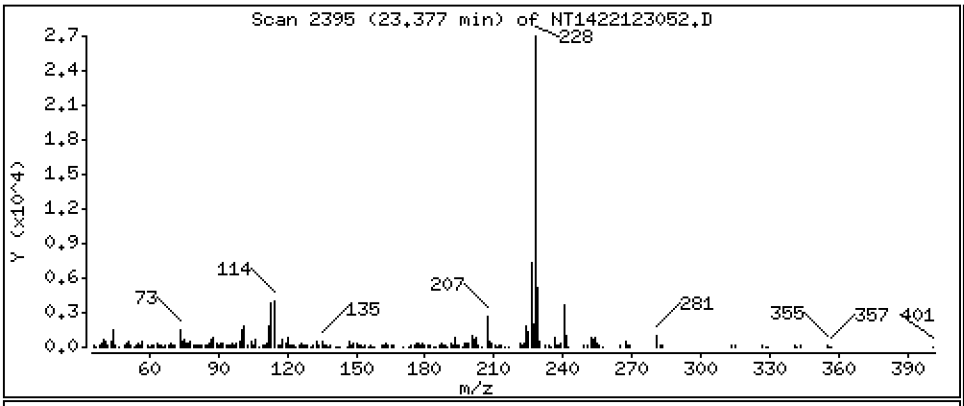
Operator: VTS

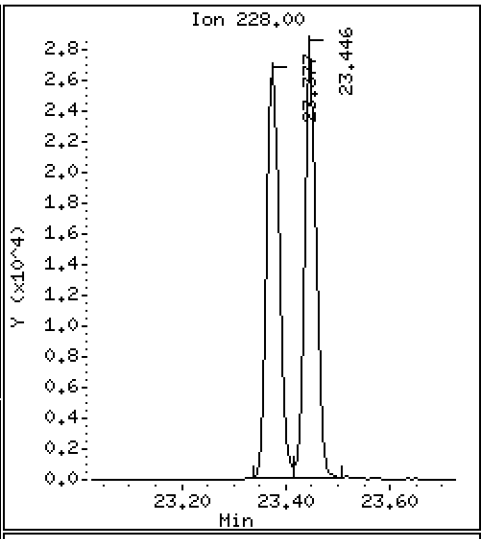
Column phase: ZB-5msi

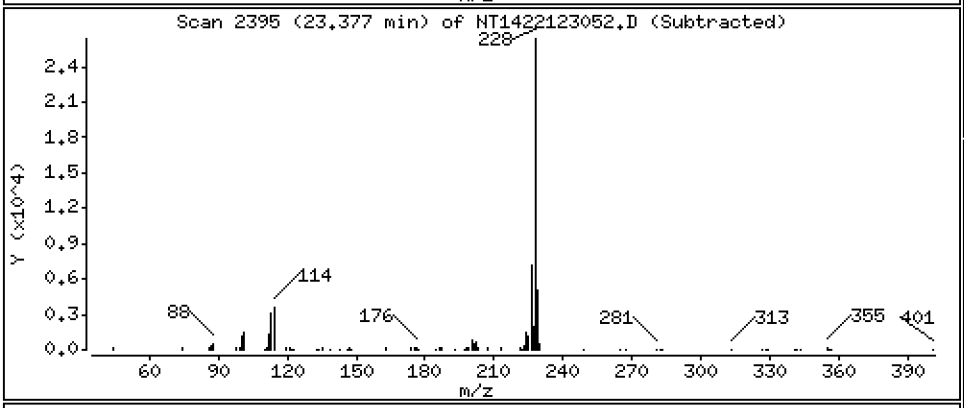
Column diameter: 0.25

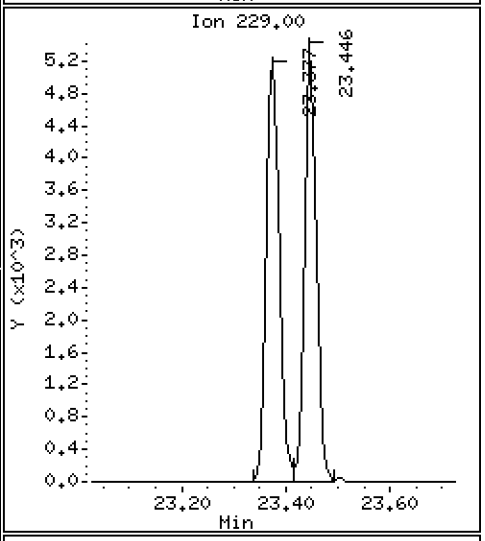
68 Benzo(a)anthracene

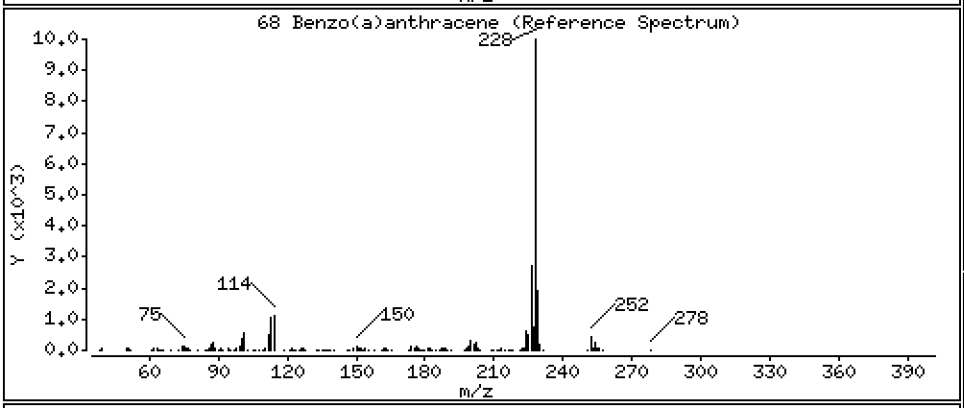
Concentration: 0.4849 ug/mL

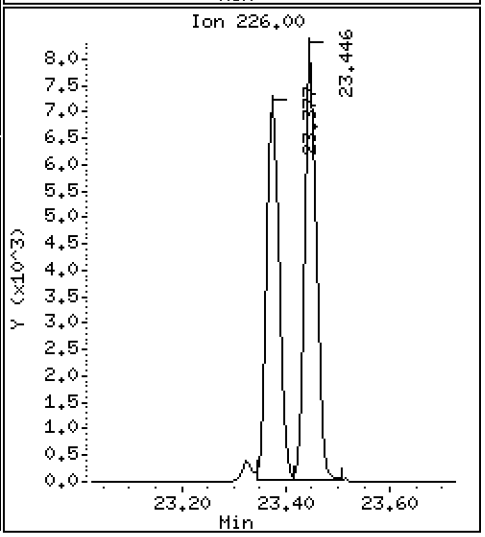


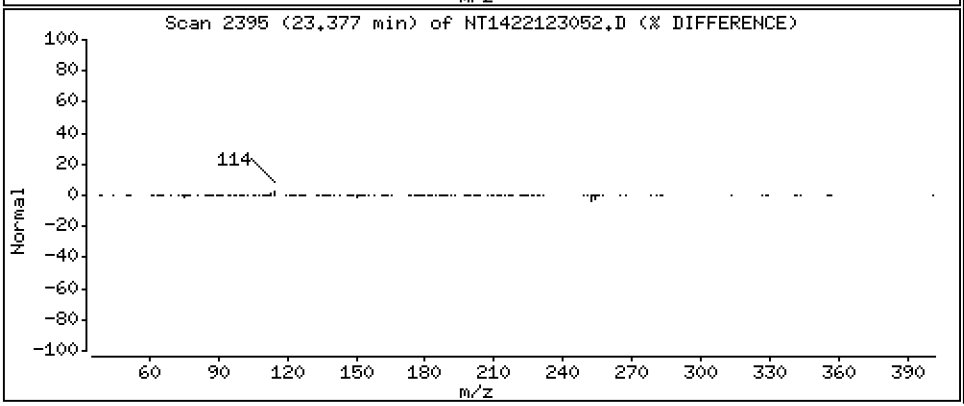












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

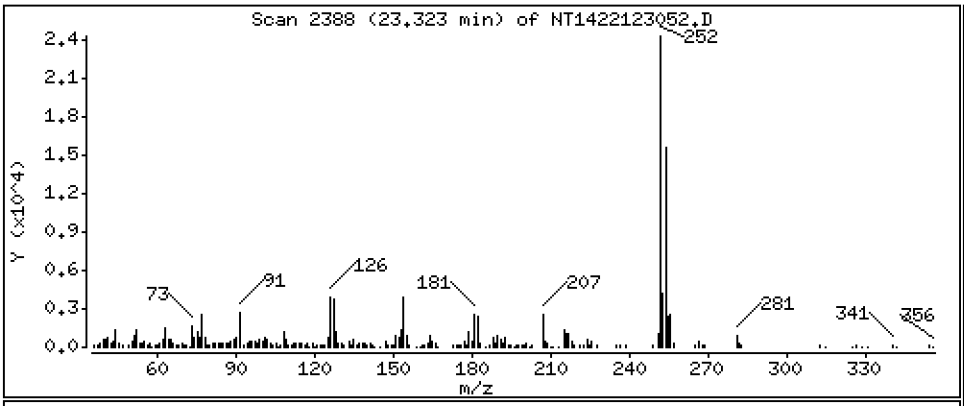
Operator: VTS

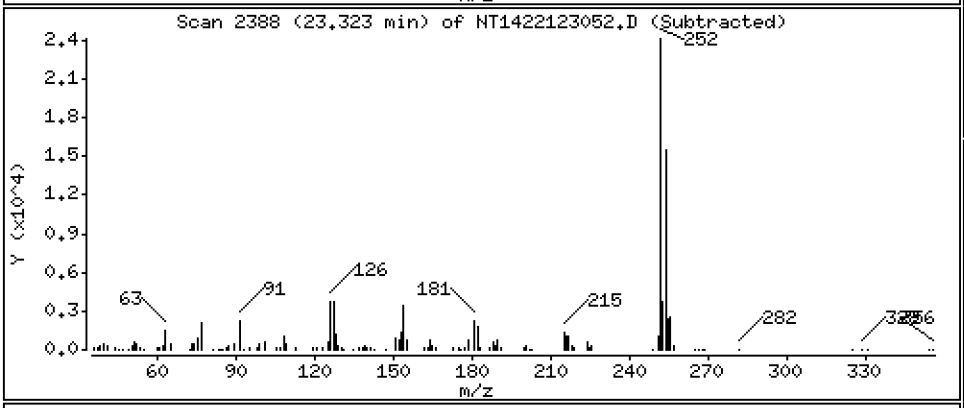
Column phase: ZB-5msi

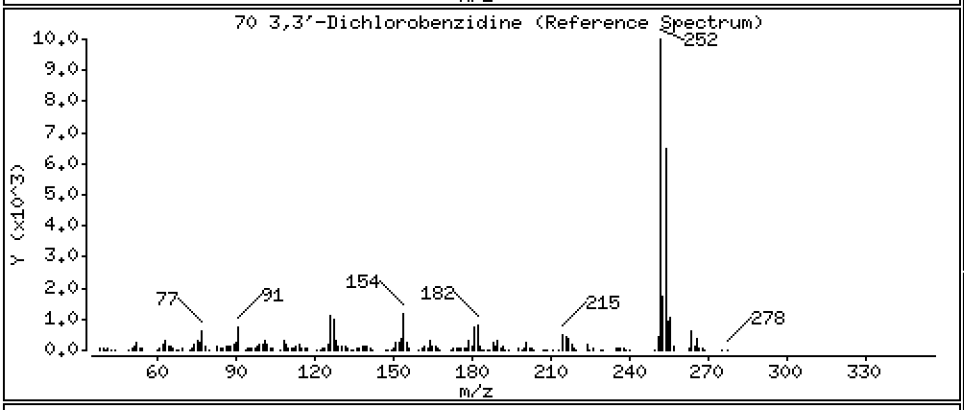
Column diameter: 0.25

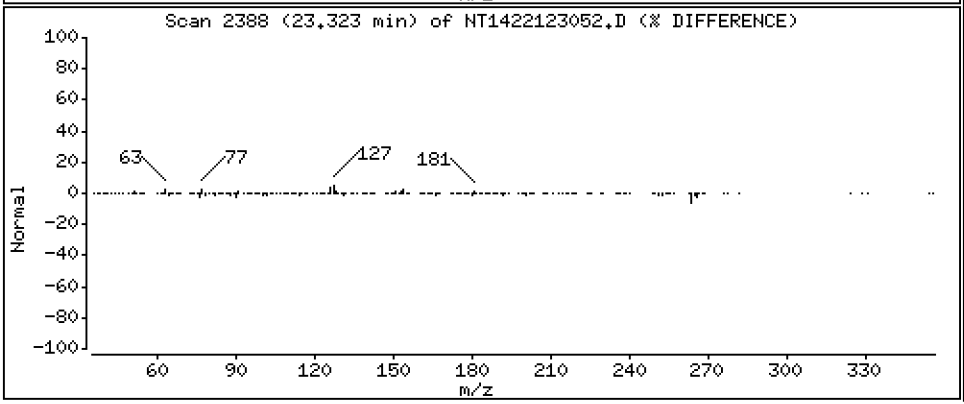
70 3,3'-Dichlorobenzidine

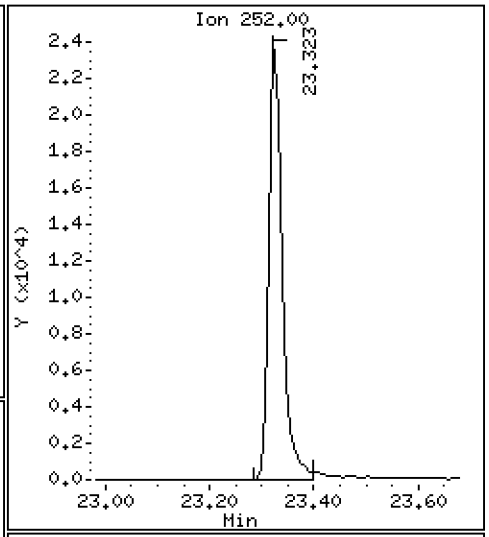
Concentration: 1.479 ug/mL

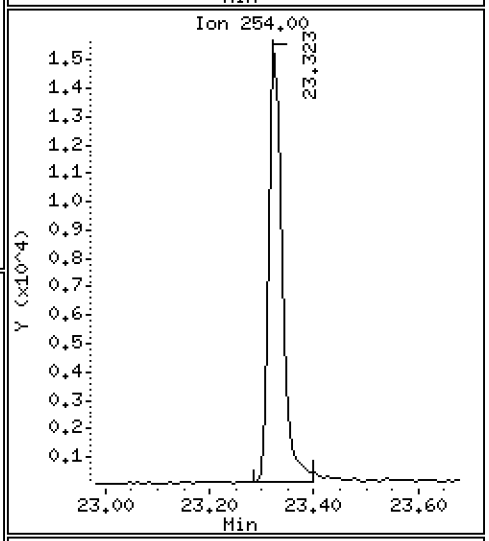


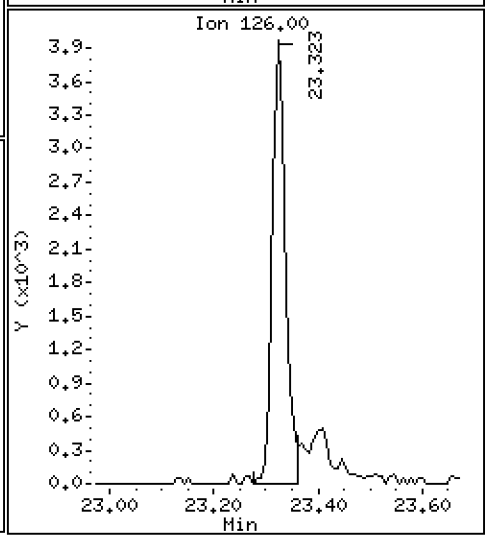












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

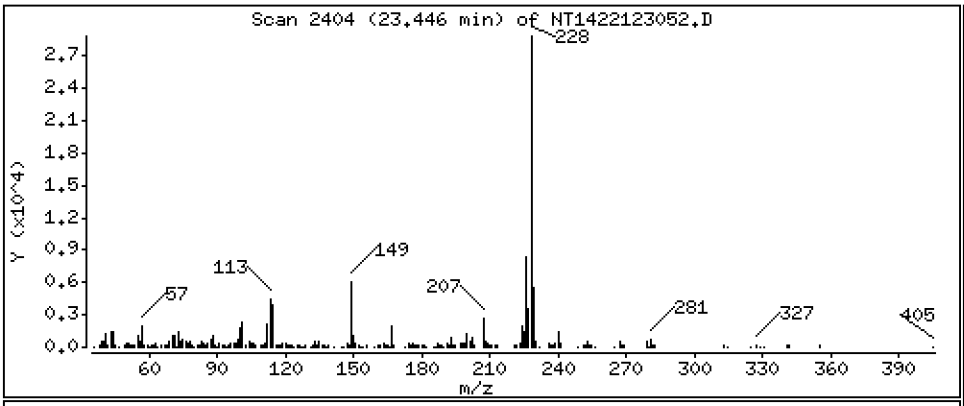
Operator: VTS

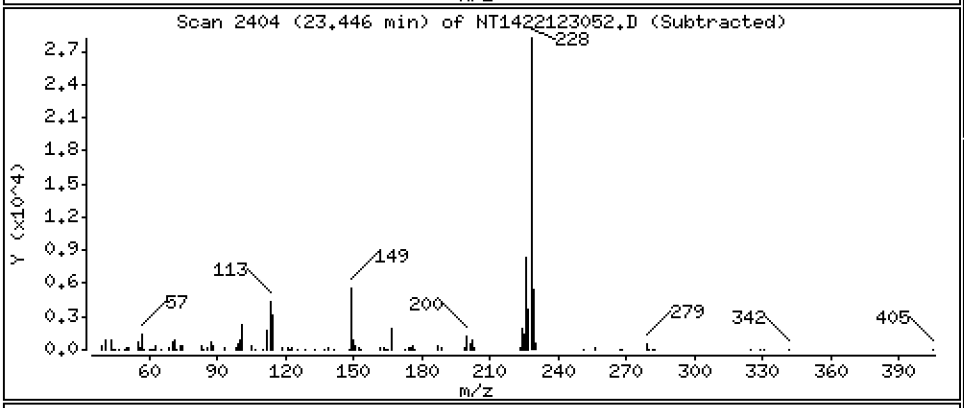
Column phase: ZB-5msi

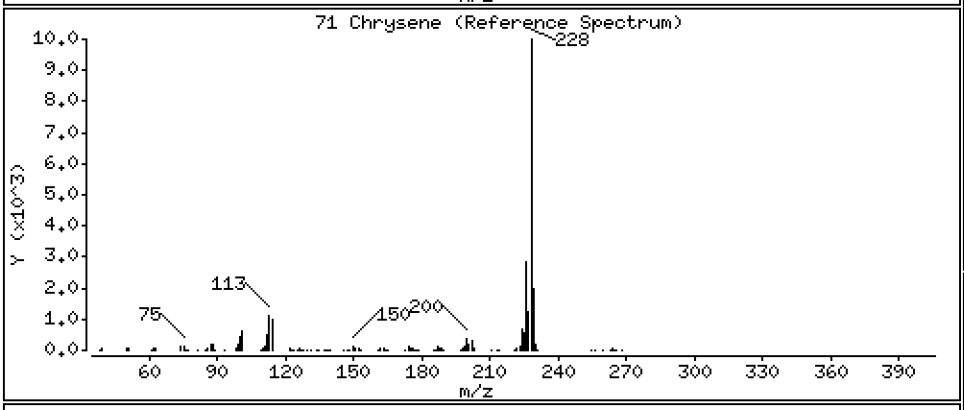
Column diameter: 0.25

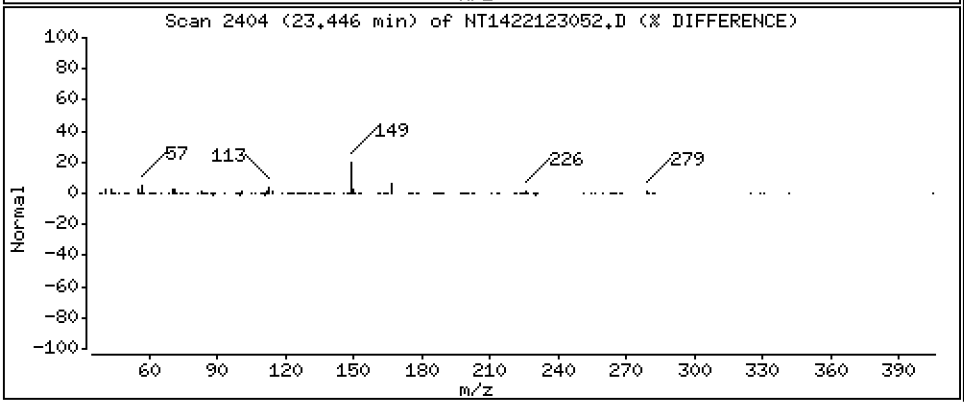
71 Chrysene

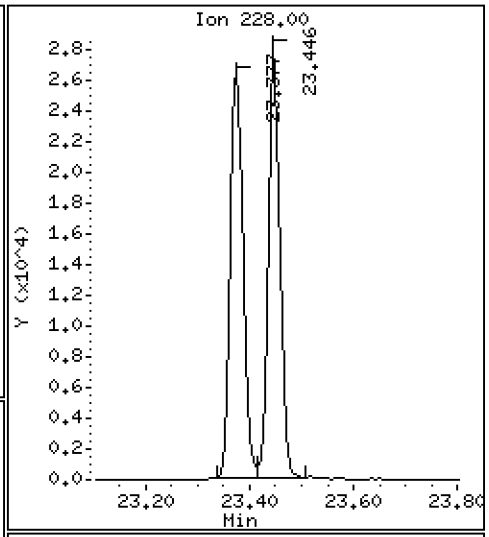
Concentration: 0.4899 ug/mL

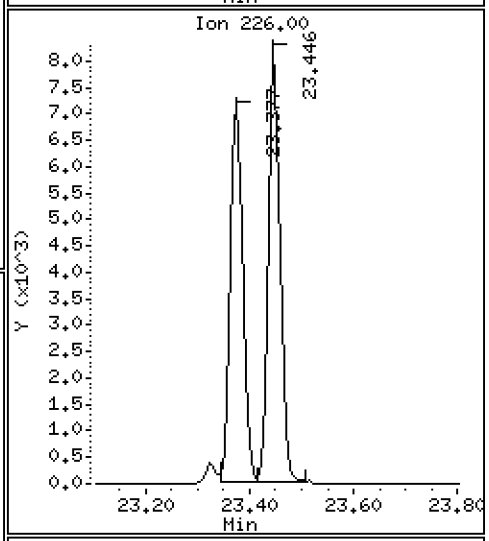


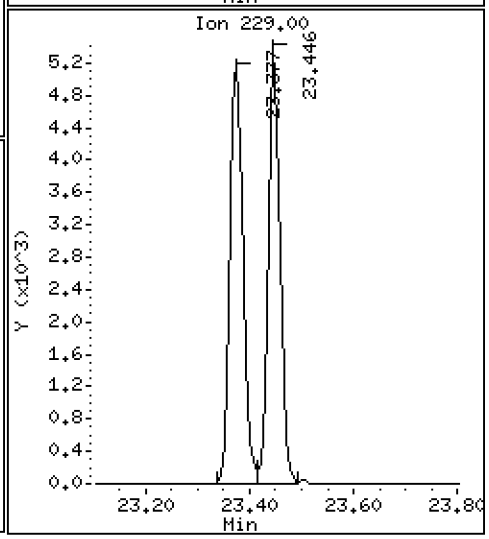












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

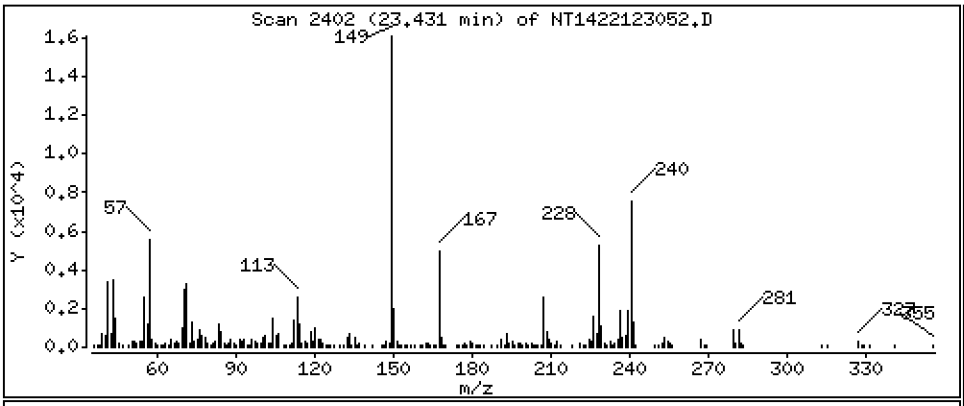
Operator: VTS

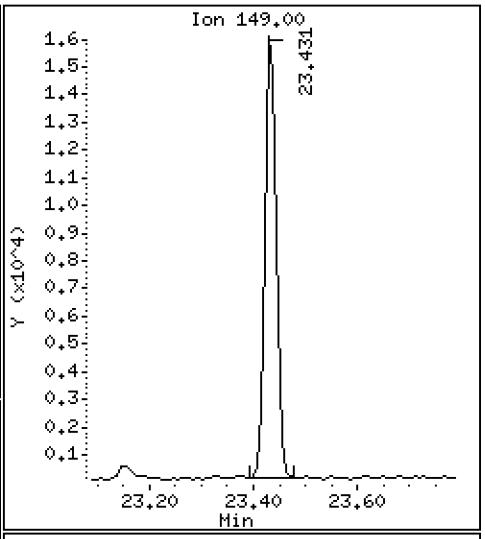
Column phase: ZB-5msi

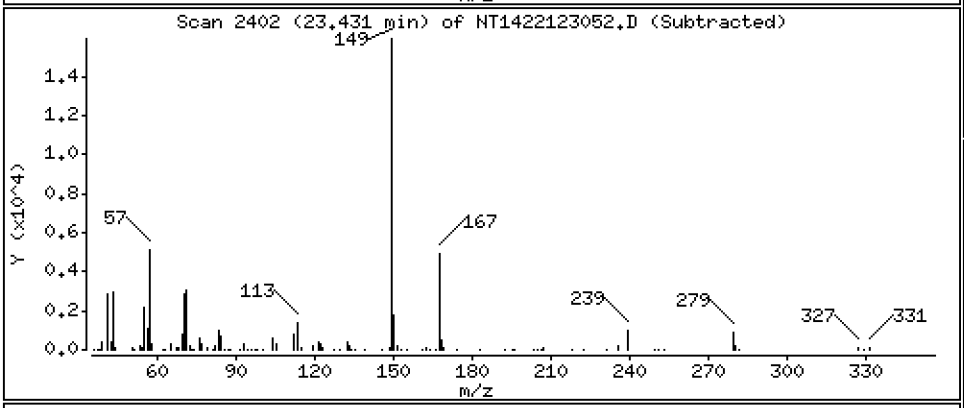
Column diameter: 0.25

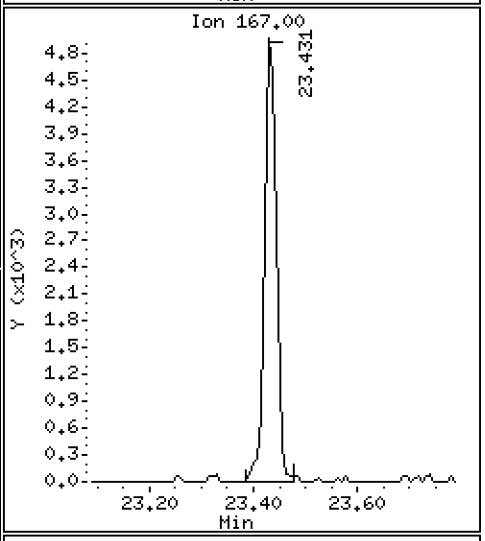
72 bis(2-Ethylhexyl)phthalate

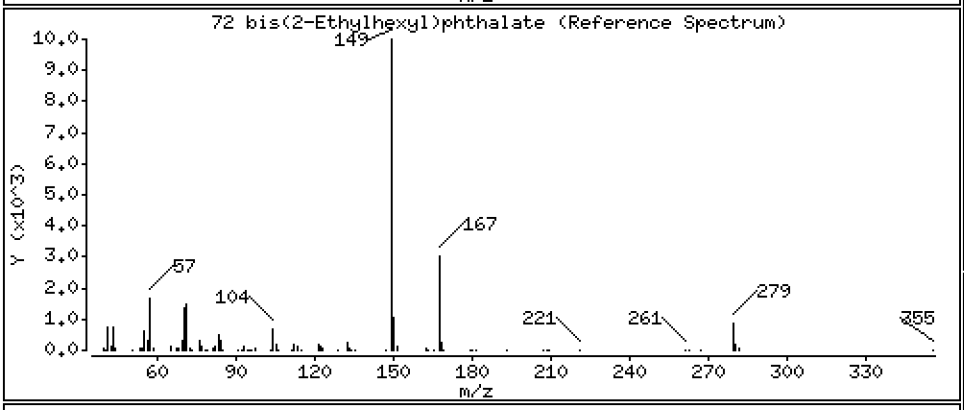
Concentration: 0.4704 ug/mL

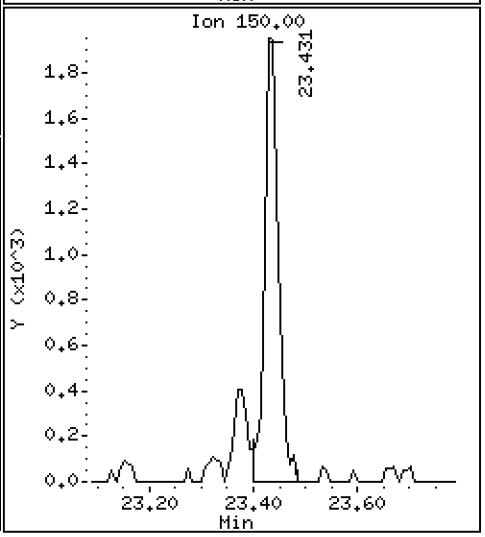


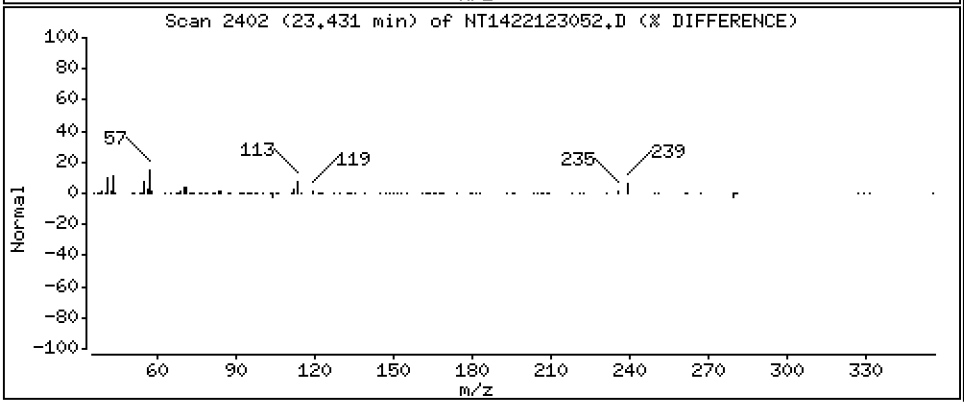












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

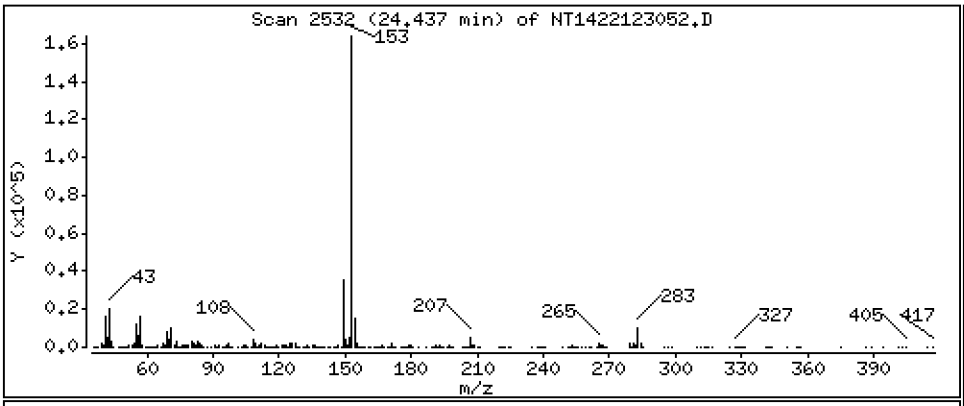
Operator: VTS

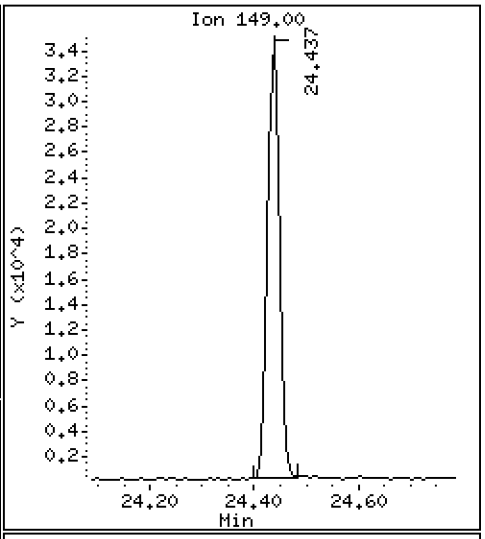
Column phase: ZB-5msi

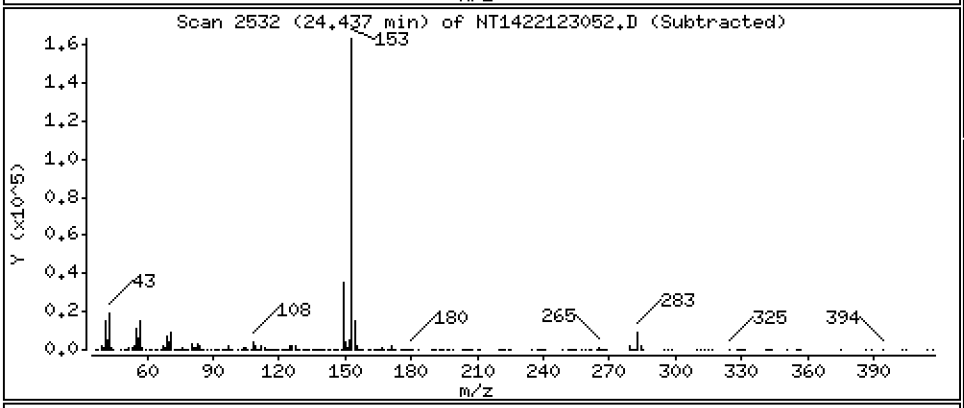
Column diameter: 0.25

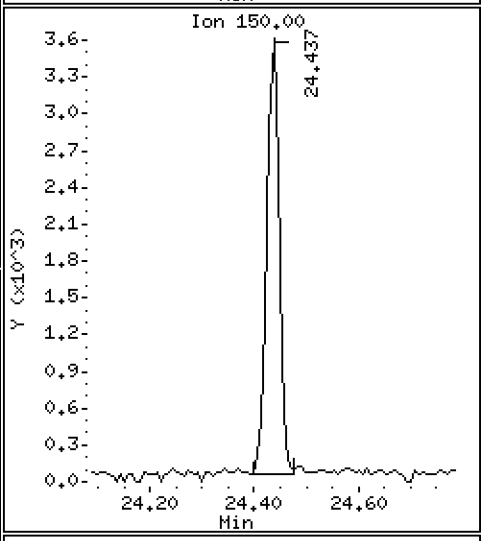
73 Di-n-octylphthalate

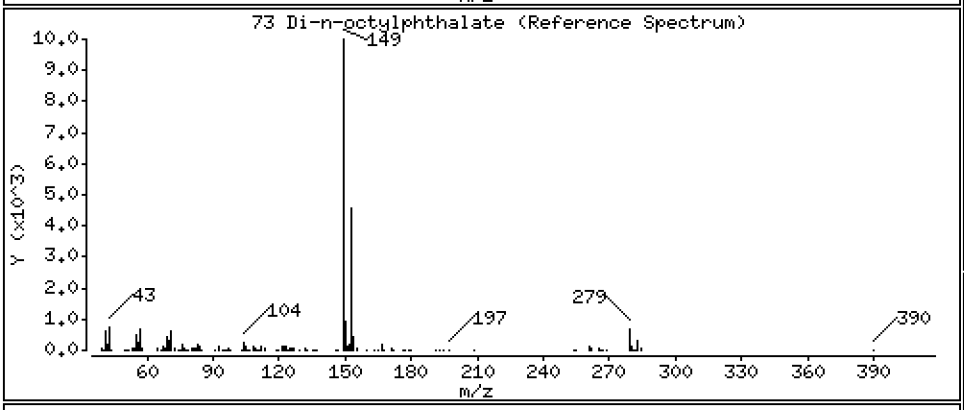
Concentration: 0.4879 ug/mL

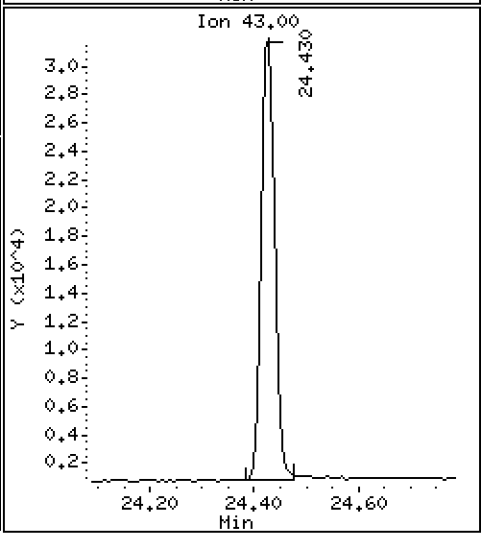


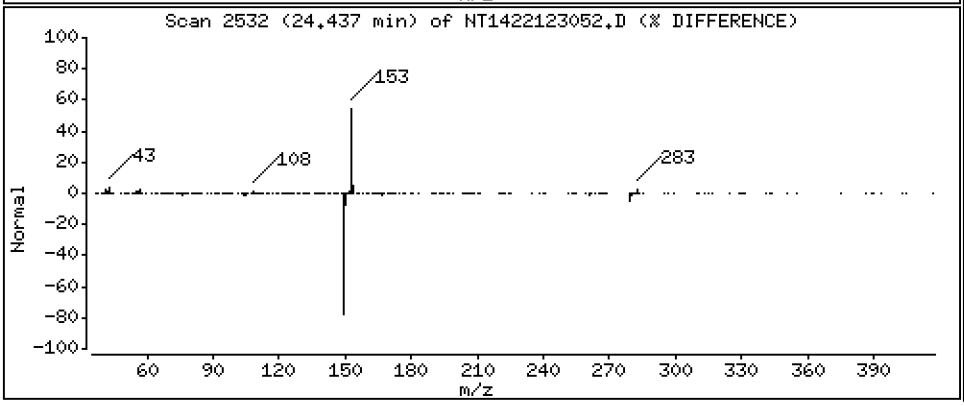












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

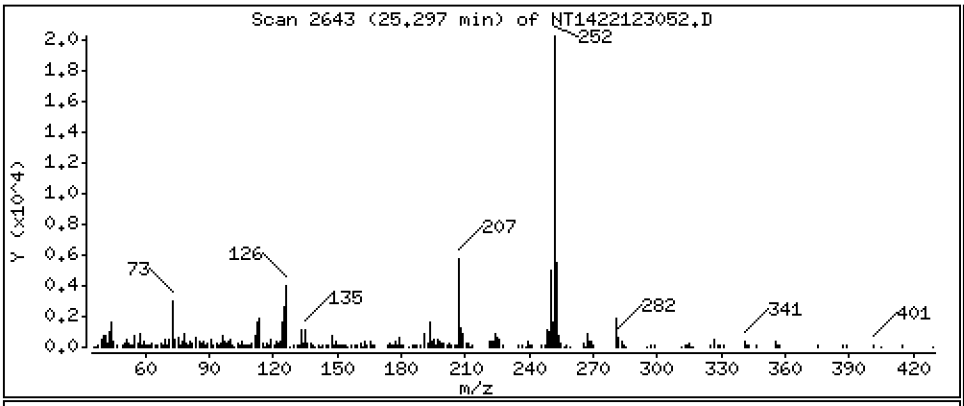
Operator: VTS

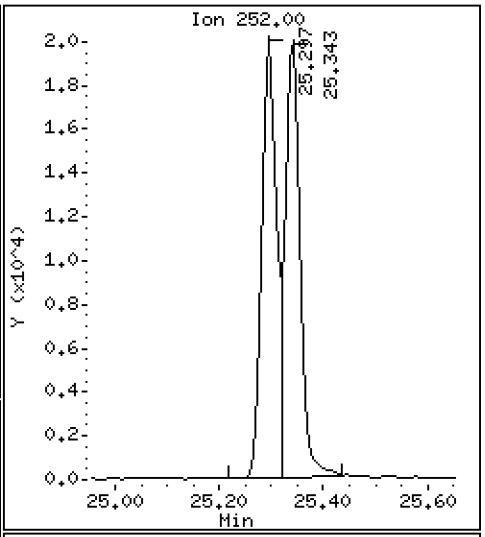
Column phase: ZB-5msi

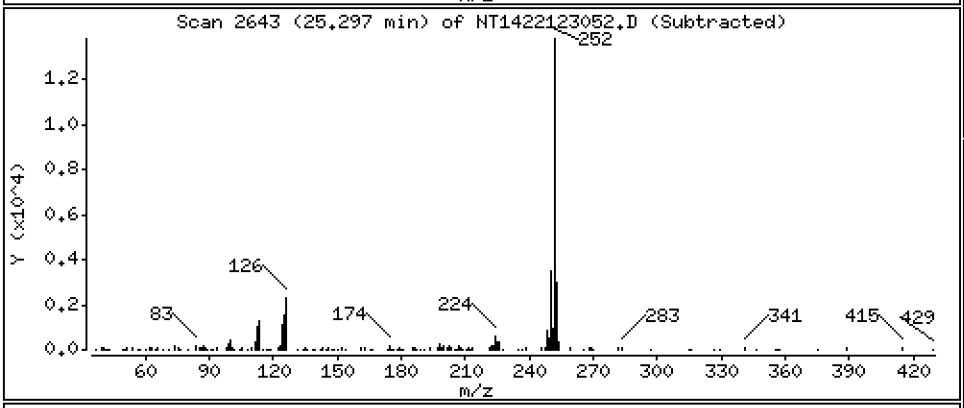
Column diameter: 0.25

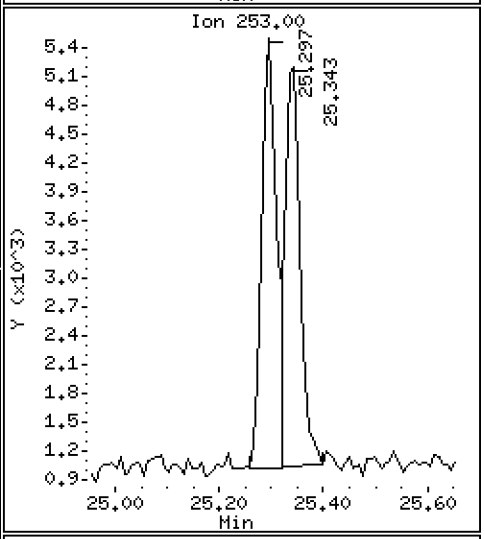
74 Benzo(b)fluoranthene

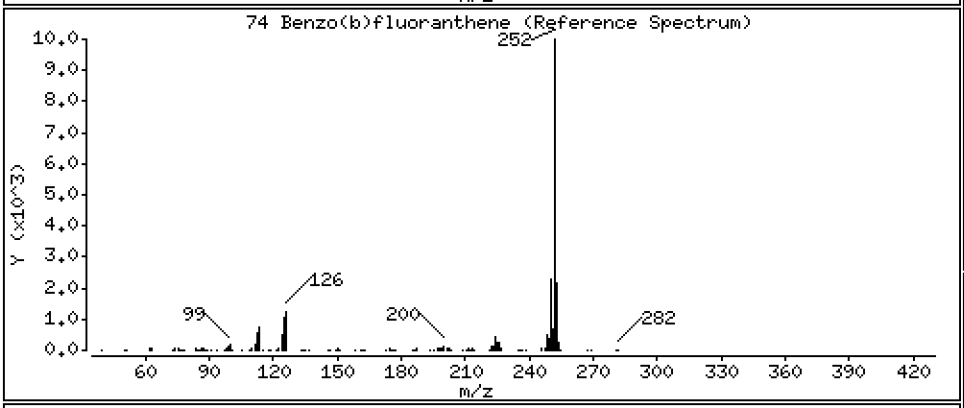
Concentration: 0.5079 ug/mL

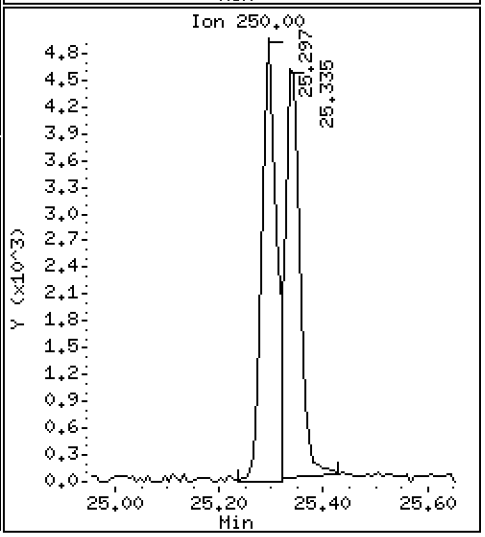


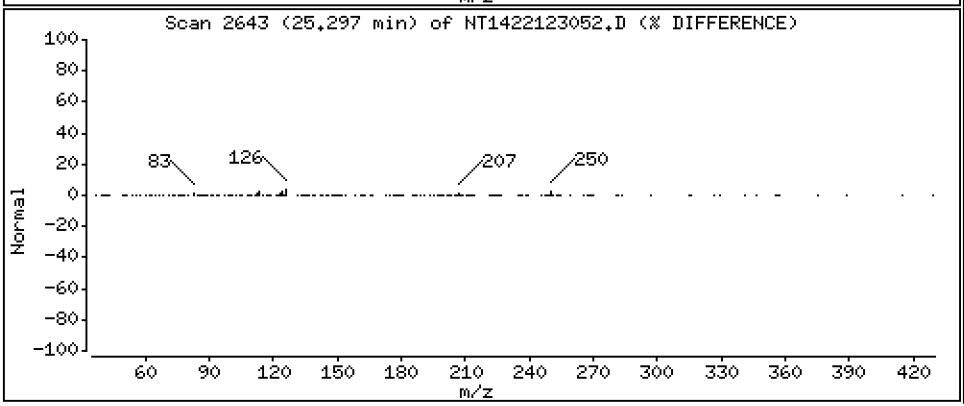












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

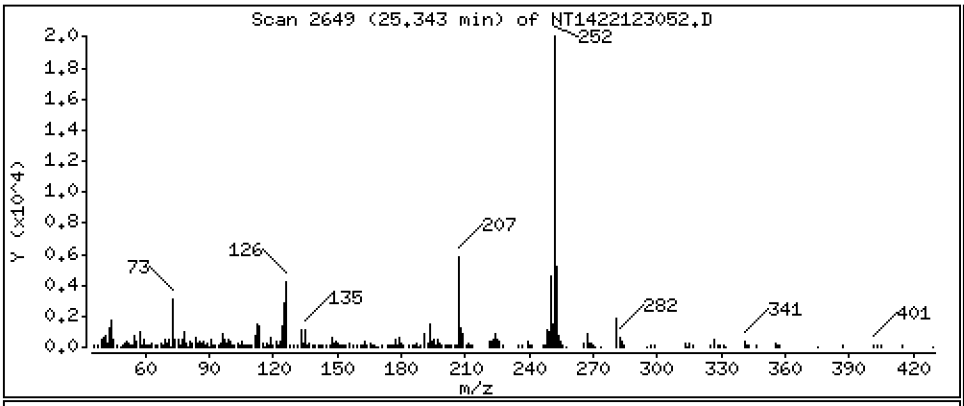
Operator: VTS

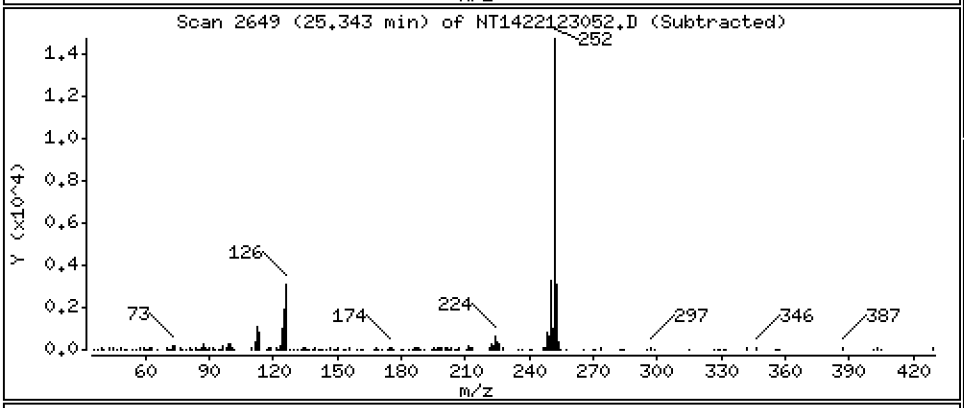
Column phase: ZB-5msi

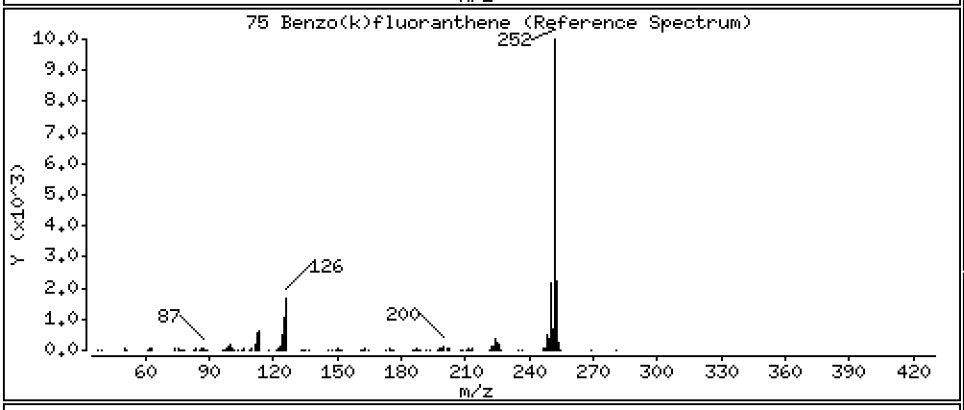
Column diameter: 0.25

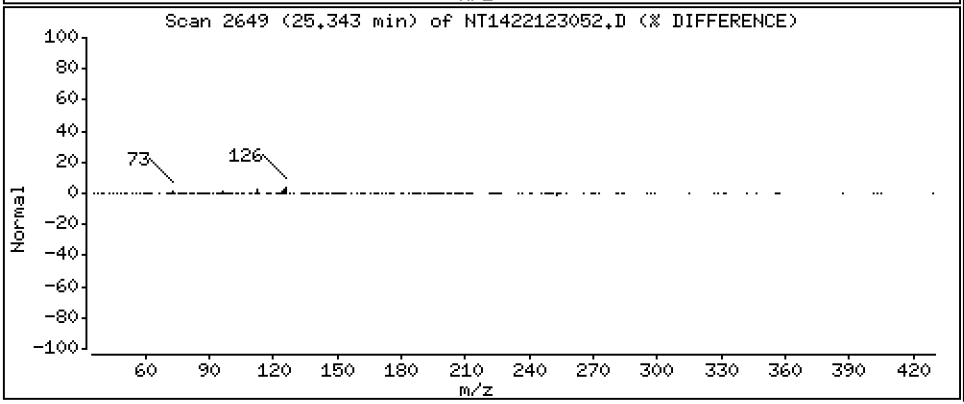
75 Benzo(k)fluoranthene

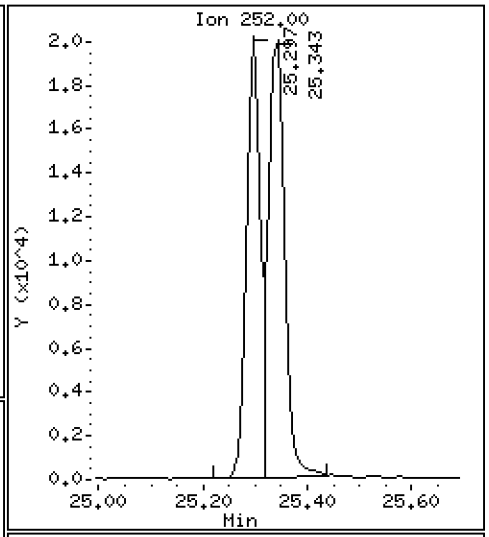
Concentration: 0.5155 ug/mL

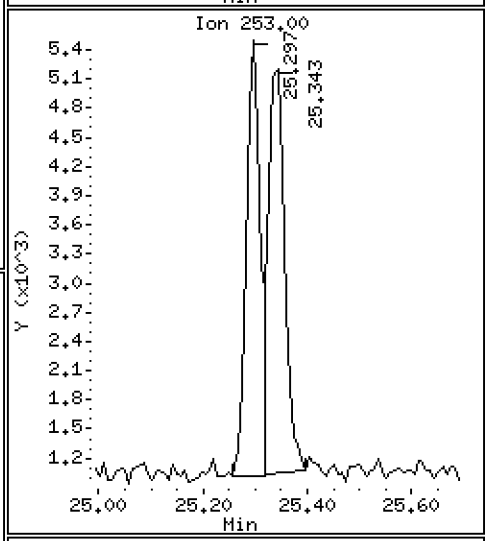


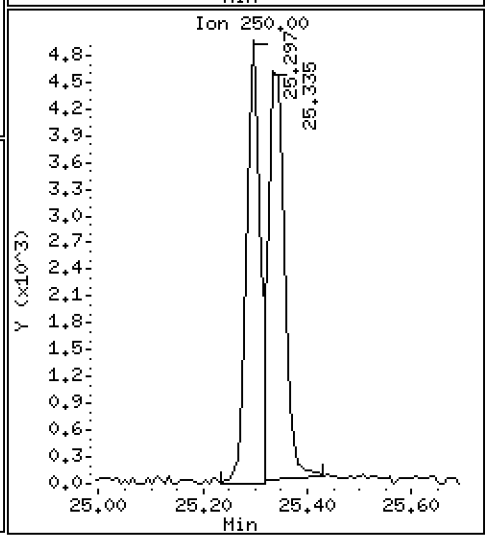












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

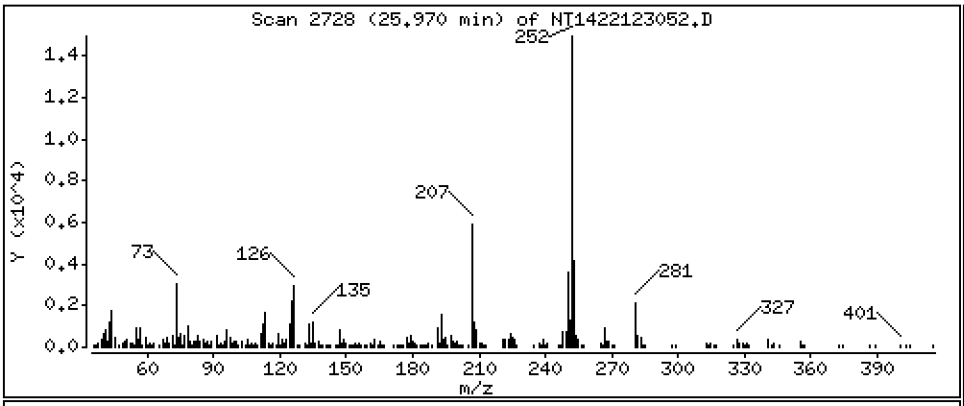
Operator: VTS

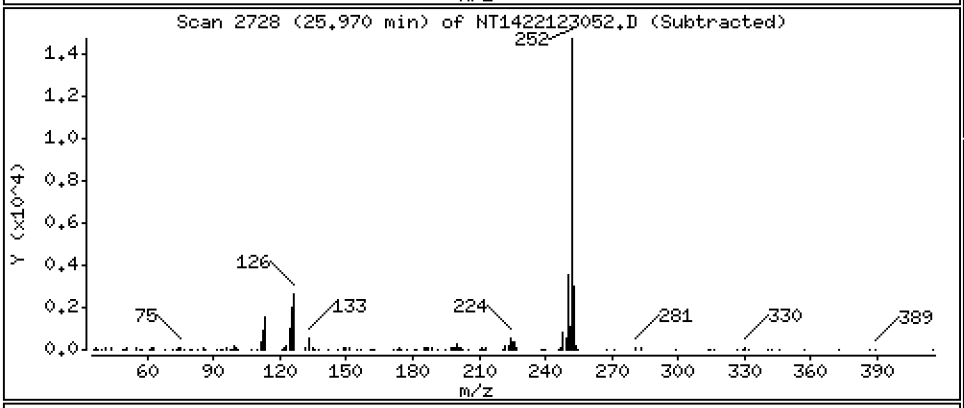
Column phase: ZB-5msi

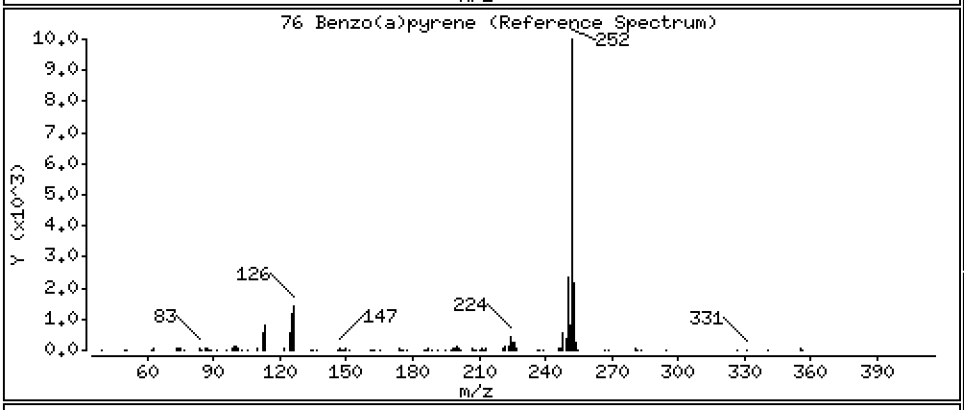
Column diameter: 0.25

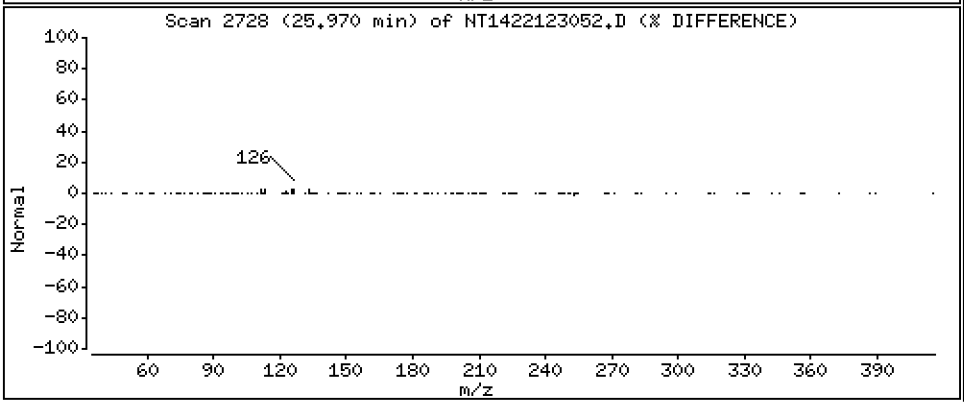
76 Benzo(a)pyrene

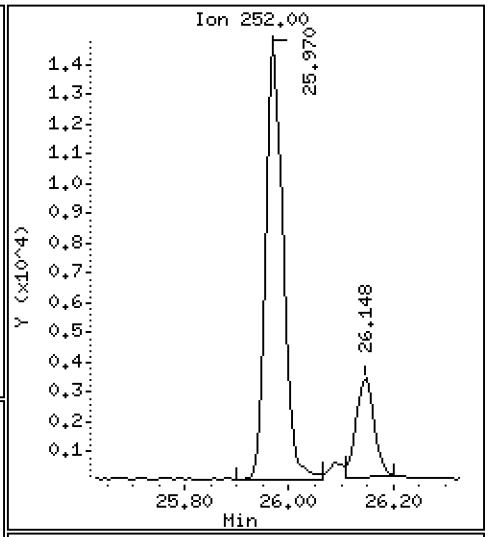
Concentration: 0.5015 ug/mL

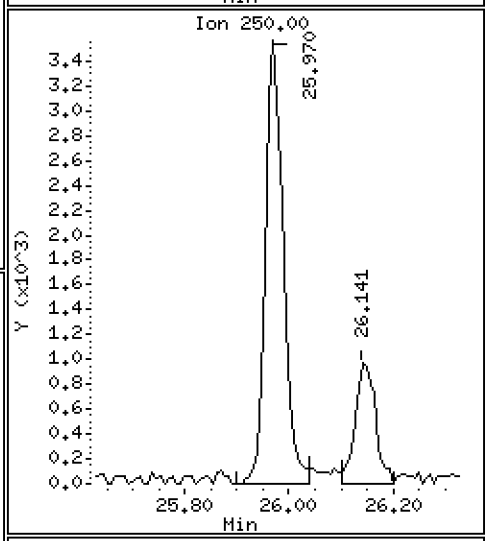


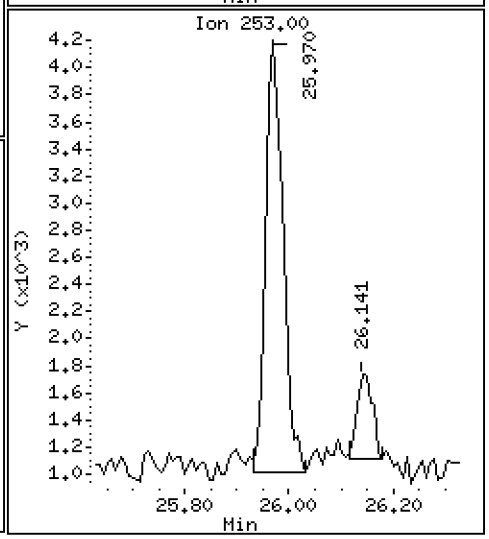












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123052.D

Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

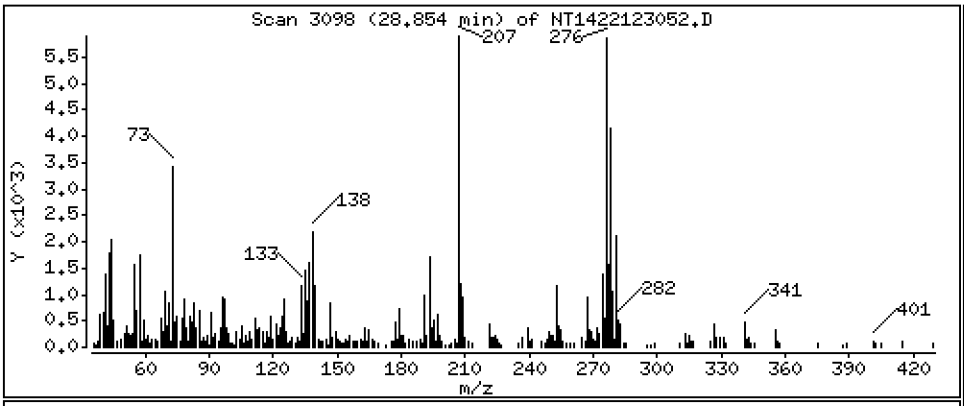
Operator: VTS

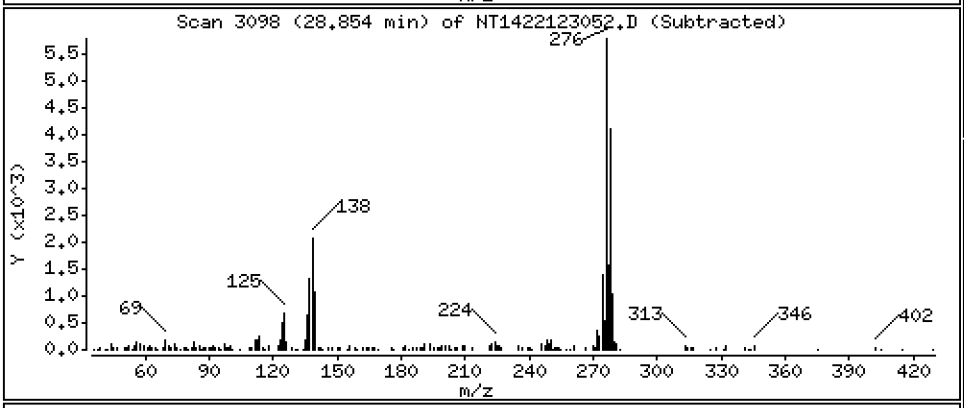
Column phase: ZB-5msi

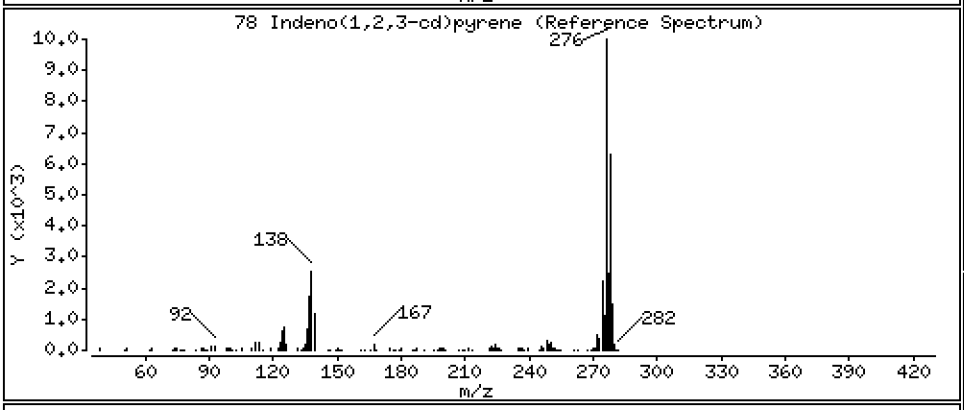
Column diameter: 0.25

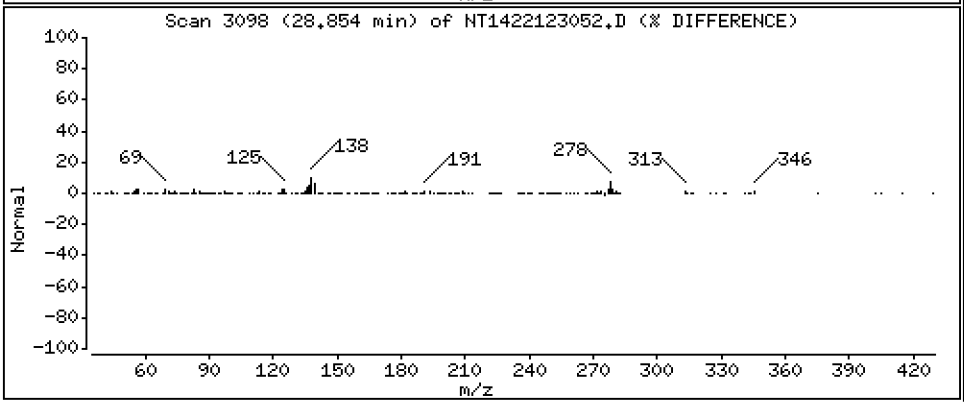
78 Indeno(1,2,3-cd)pyrene

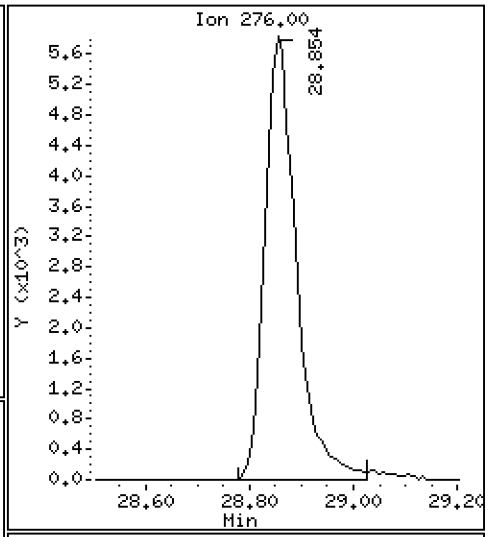
Concentration: 0.3235 ug/mL

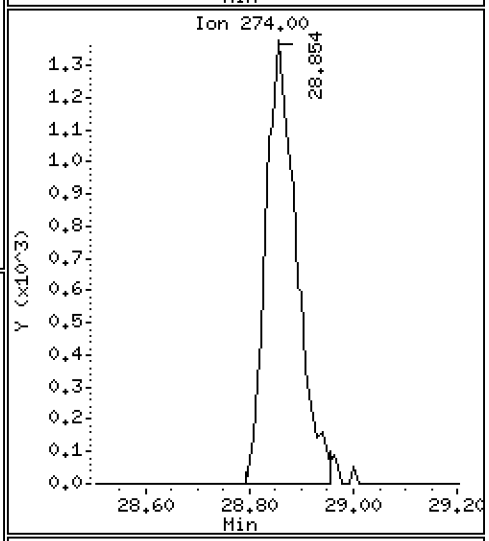


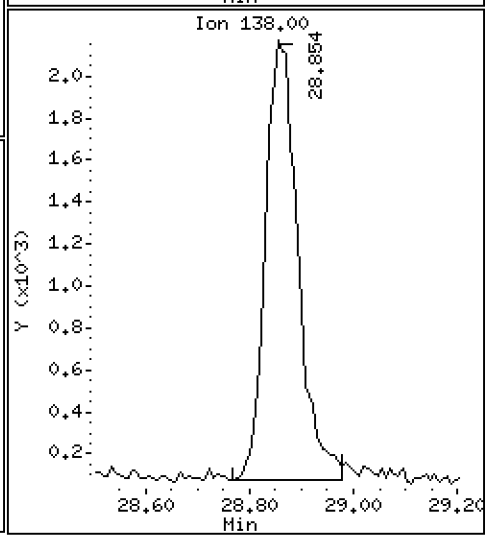












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

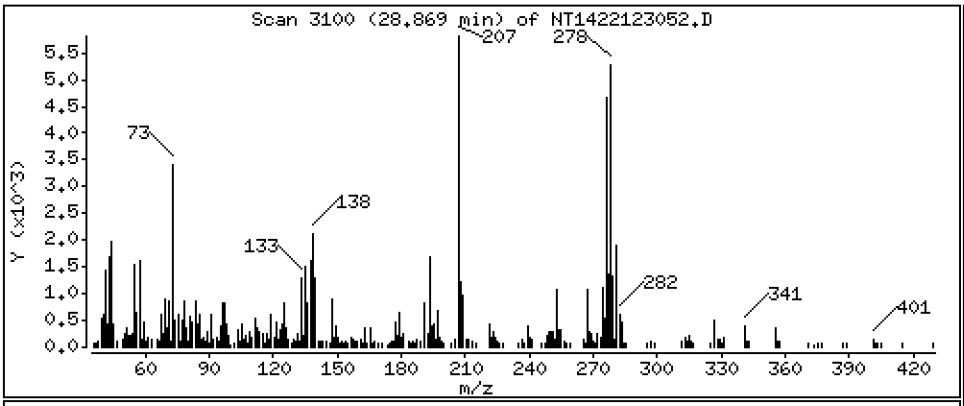
Operator: VTS

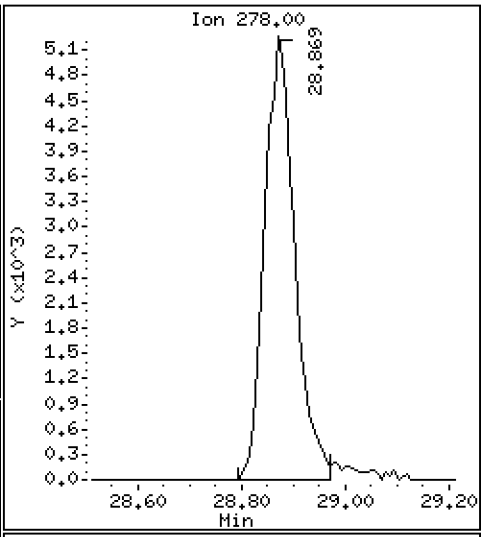
Column phase: ZB-5msi

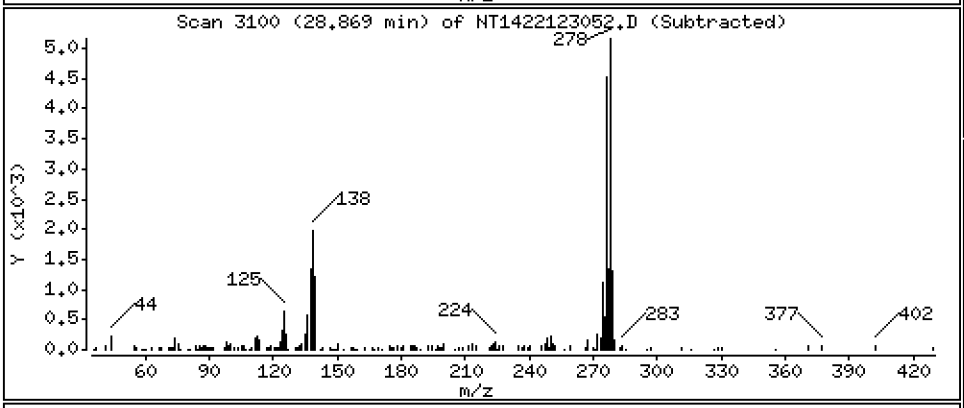
Column diameter: 0.25

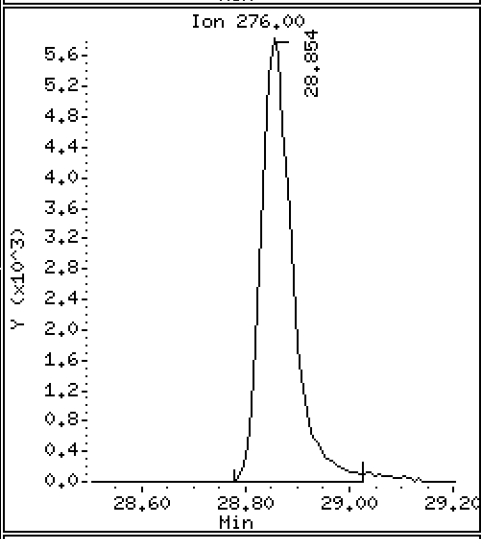
79 Dibenzo(a,h)anthracene

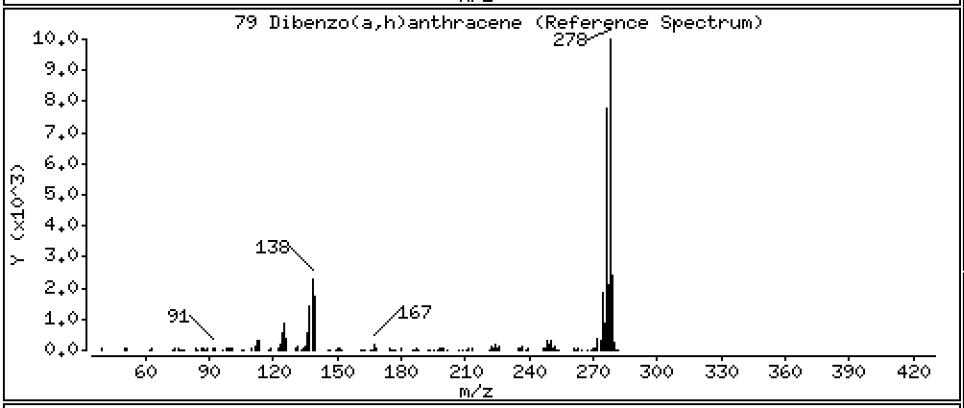
Concentration: 0.3297 ug/mL

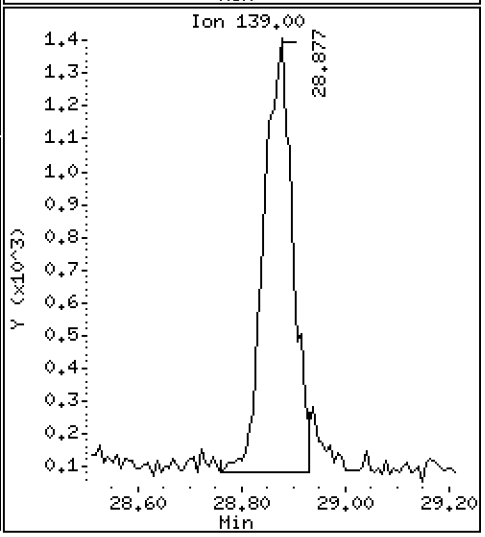


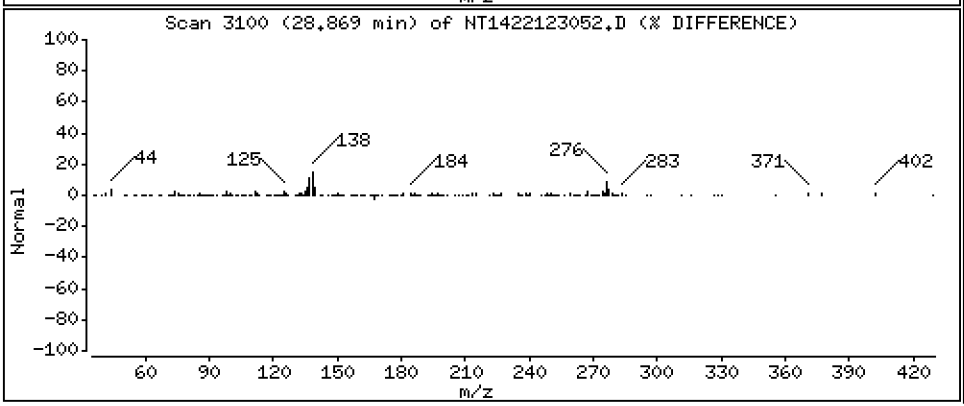












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123052.D

Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

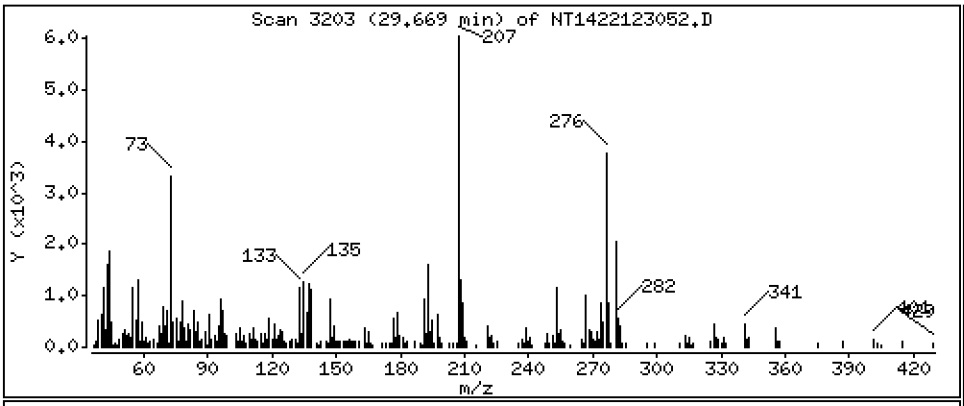
Operator: VTS

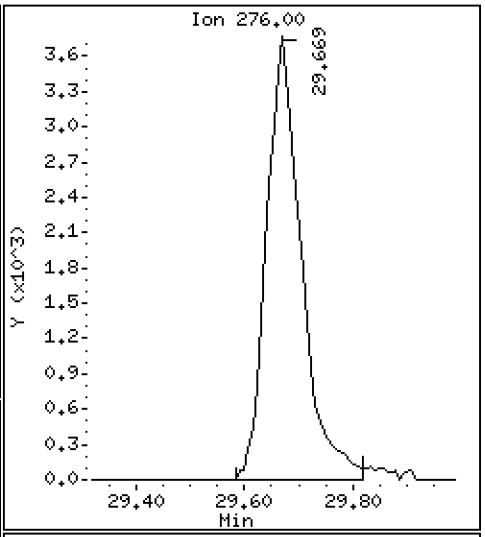
Column phase: ZB-5msi

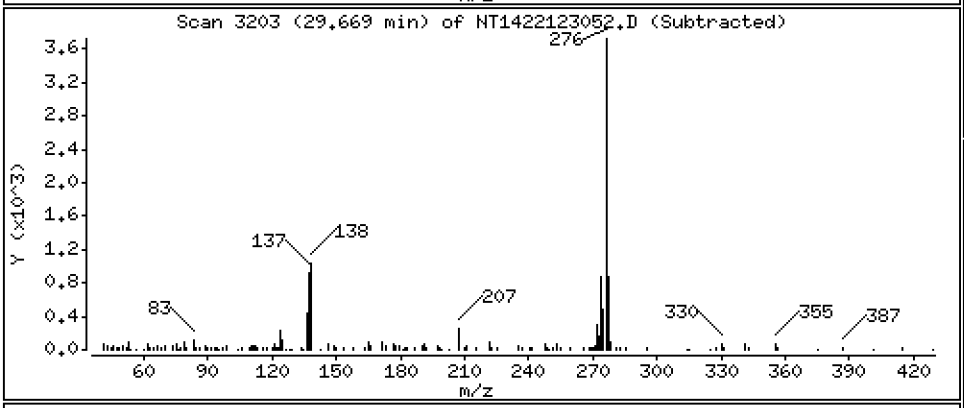
Column diameter: 0.25

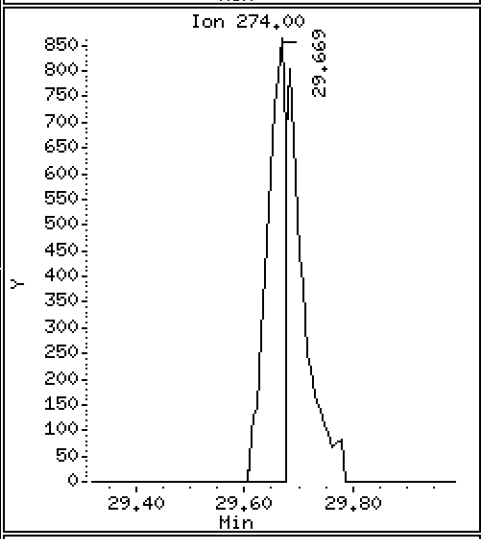
80 Benzo(g,h,i)perylene

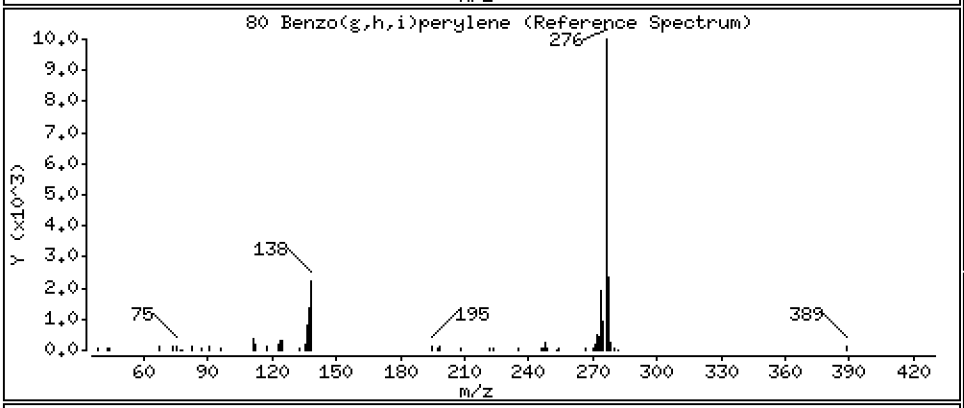
Concentration: 0.2675 ug/mL

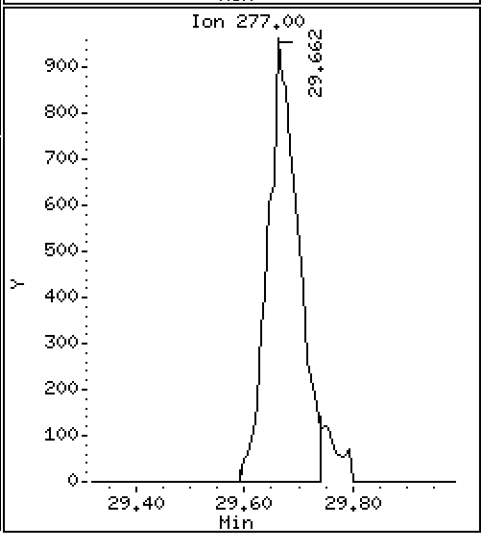


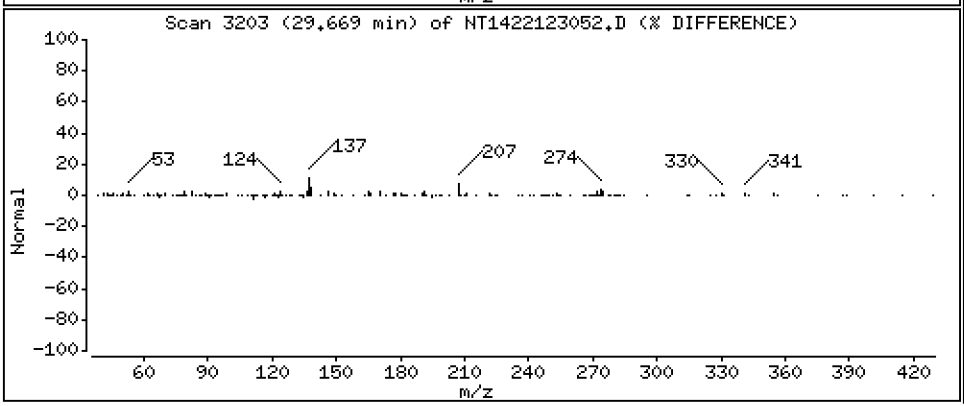












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

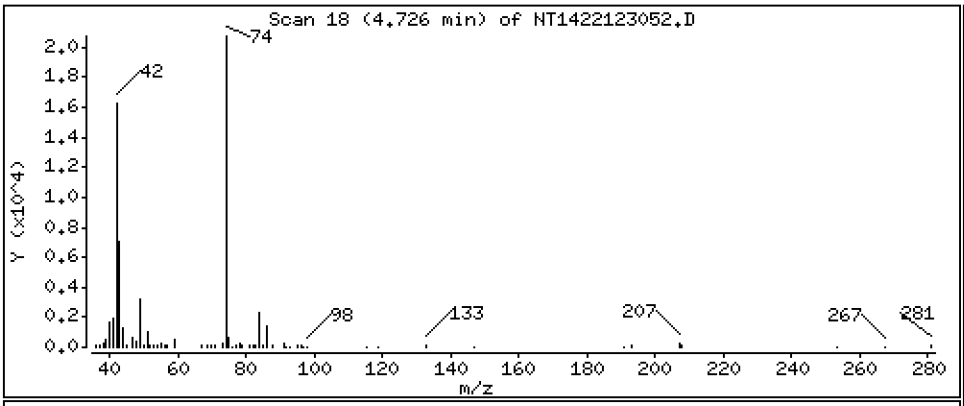
Operator: VTS

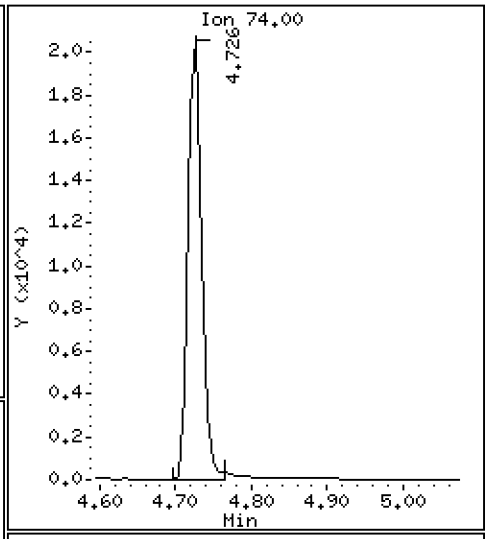
Column phase: ZB-5msi

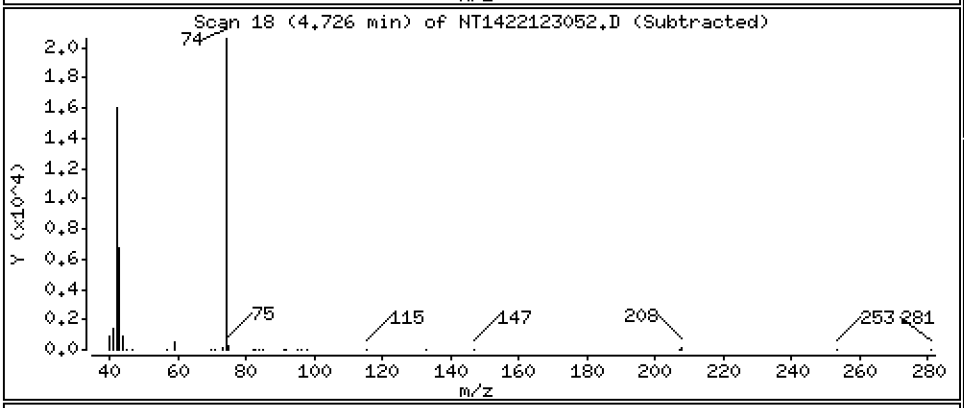
Column diameter: 0.25

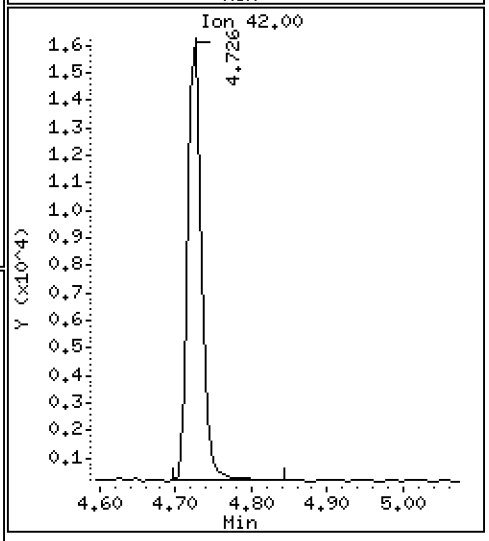
90 N-Nitrosodimethylamine

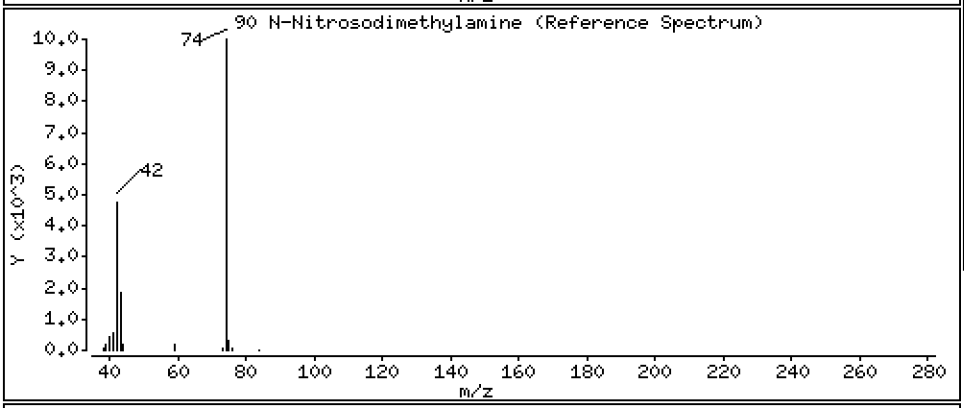
Concentration: 1.002 ug/mL

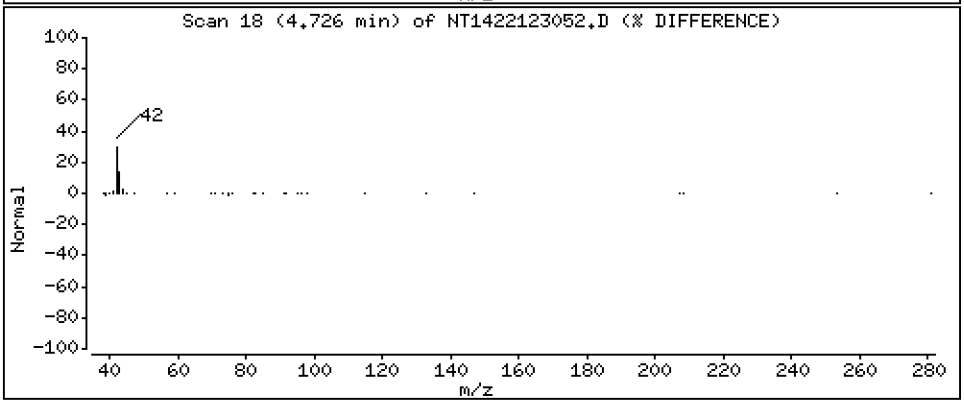












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123052.D

Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

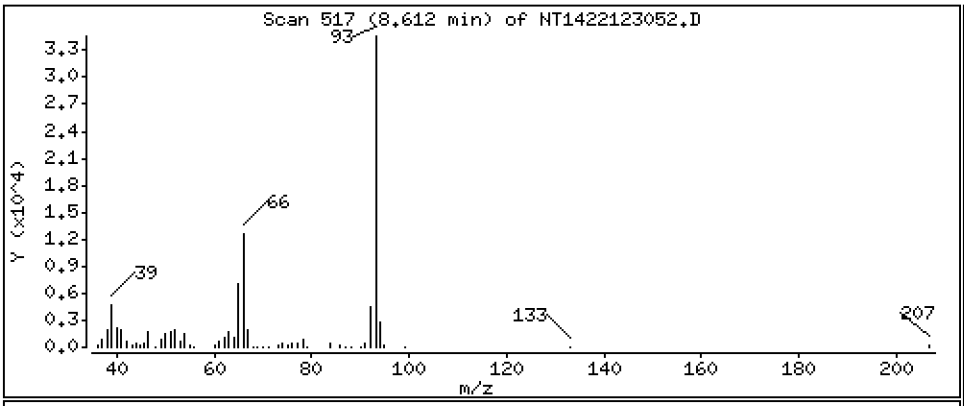
Operator: VTS

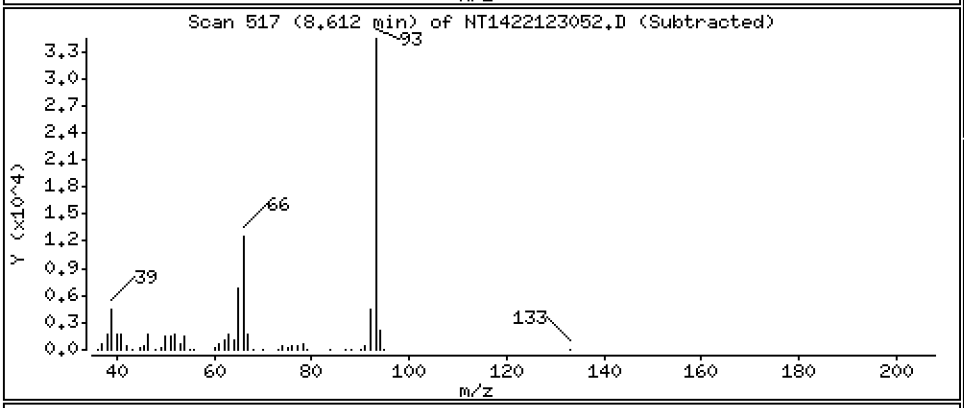
Column phase: ZB-5msi

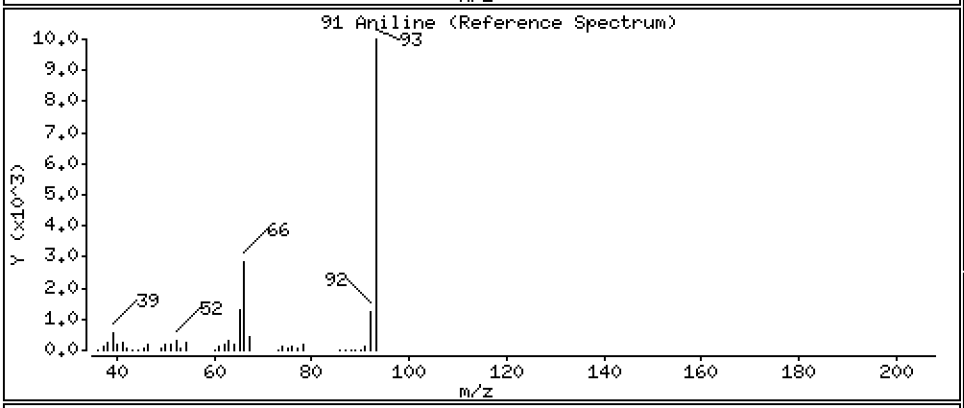
Column diameter: 0.25

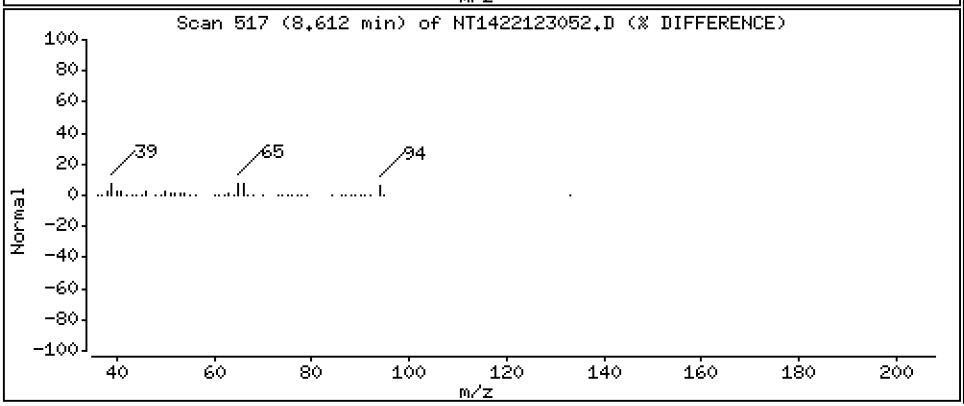
91 Aniline

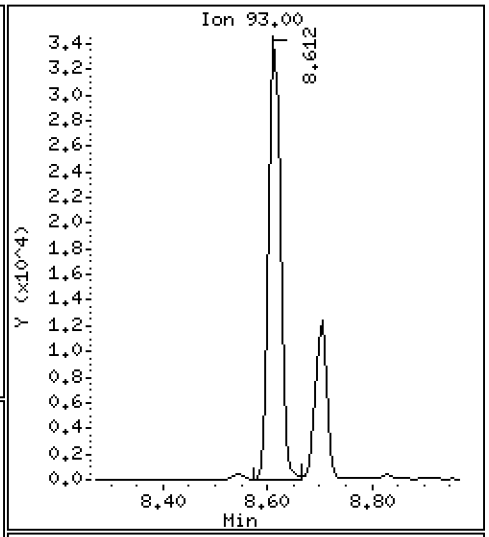
Concentration: 0.9702 ug/mL

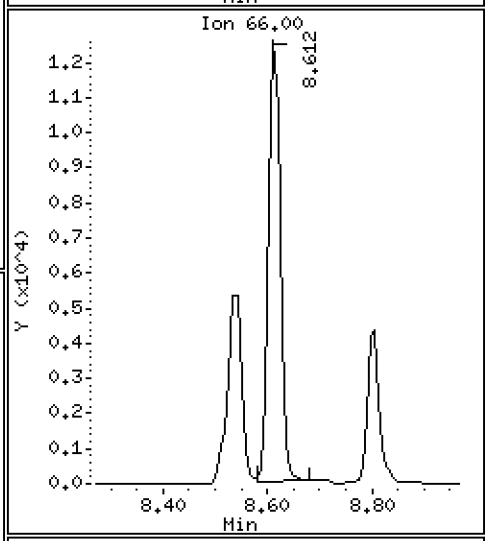


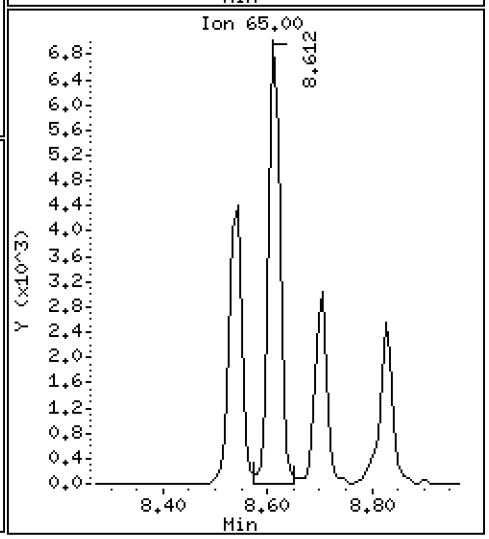












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

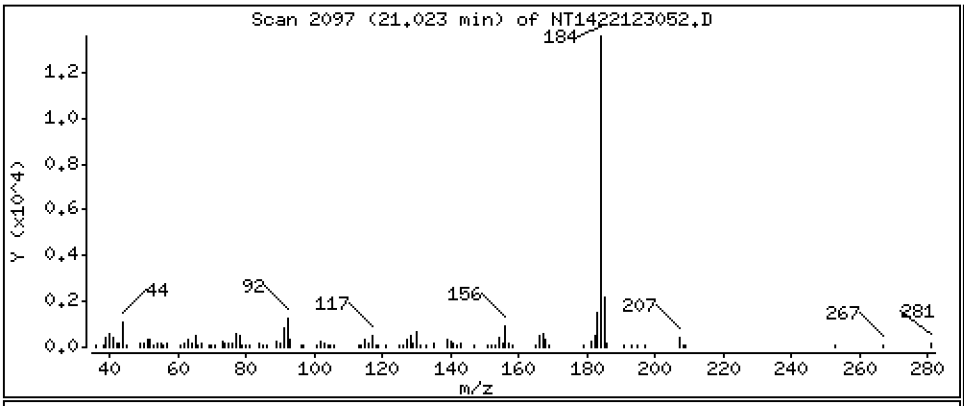
Operator: VTS

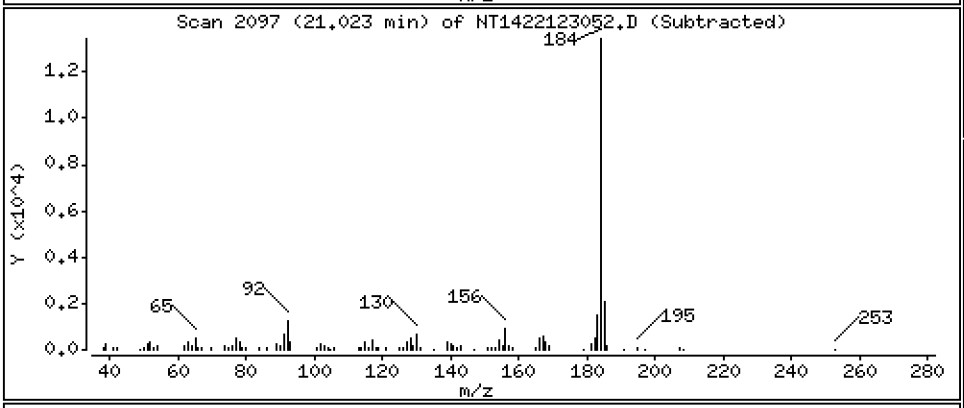
Column phase: ZB-5msi

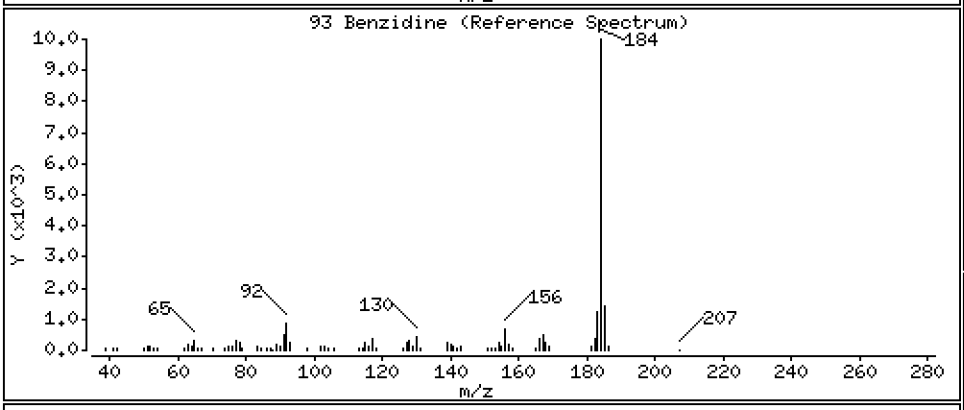
Column diameter: 0.25

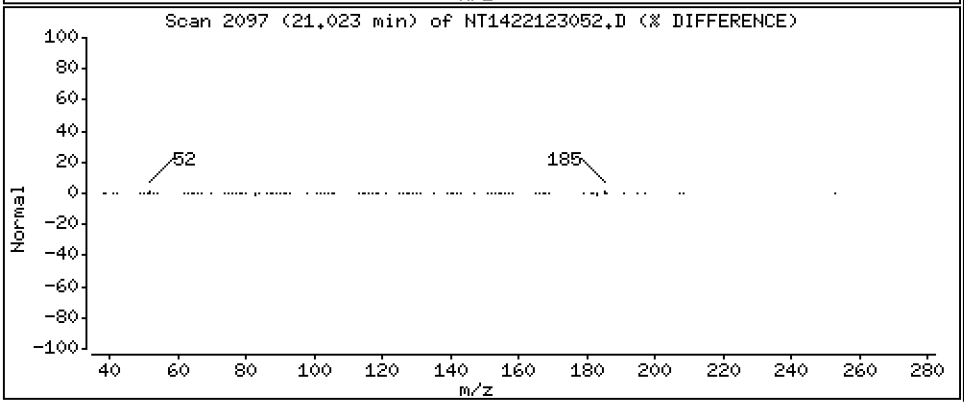
93 Benzidine

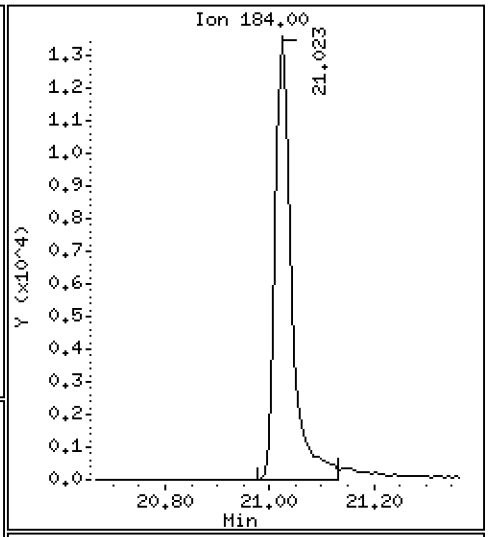
Concentration: 0.8039 ug/mL

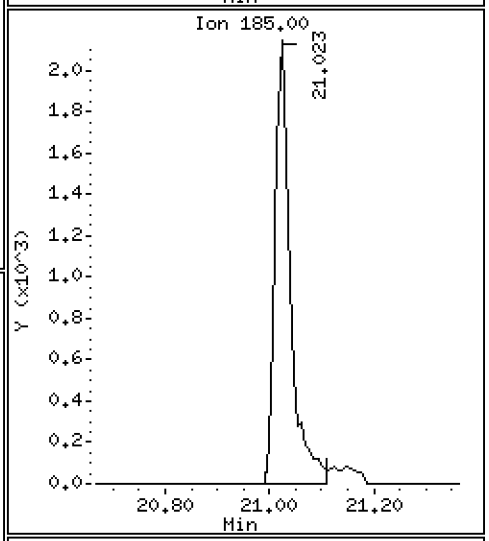


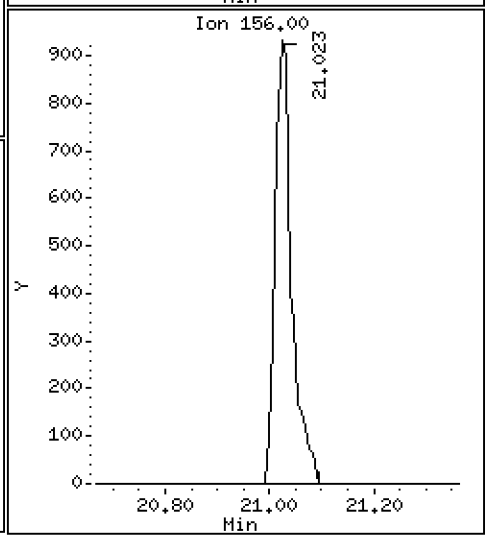












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123052.D

Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

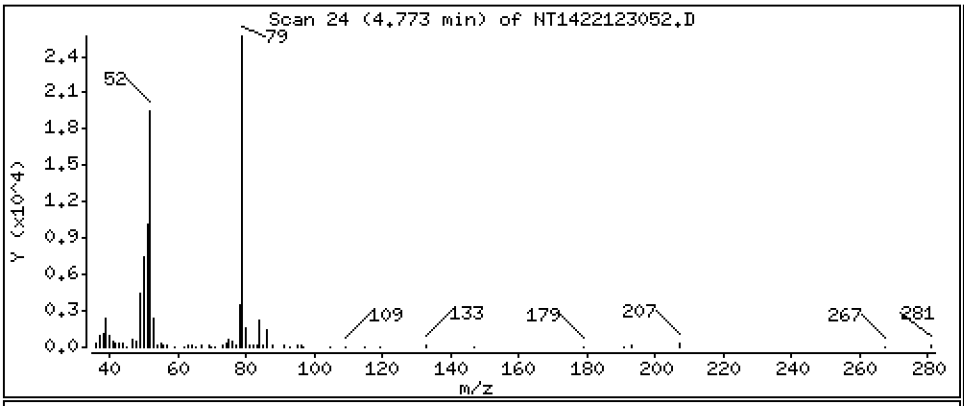
Operator: VTS

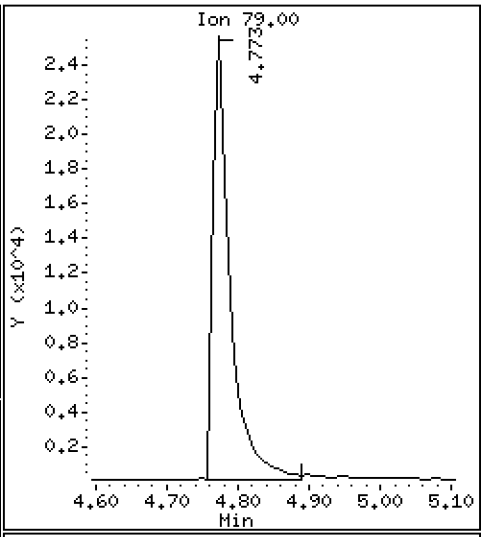
Column phase: ZB-5msi

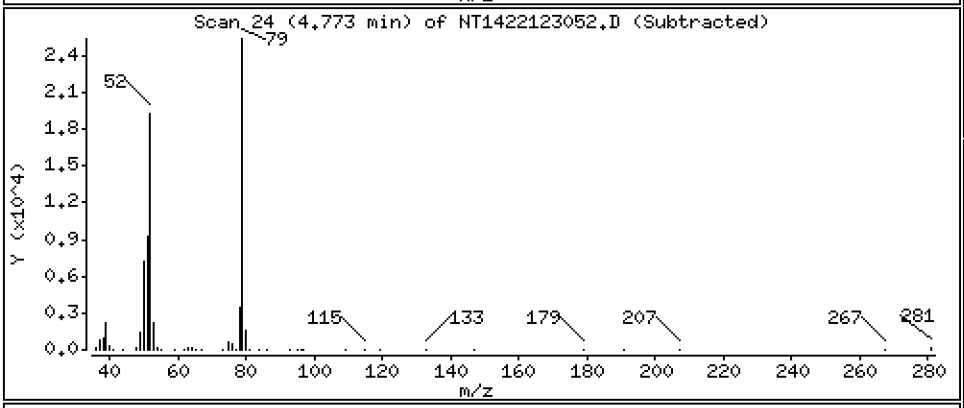
Column diameter: 0.25

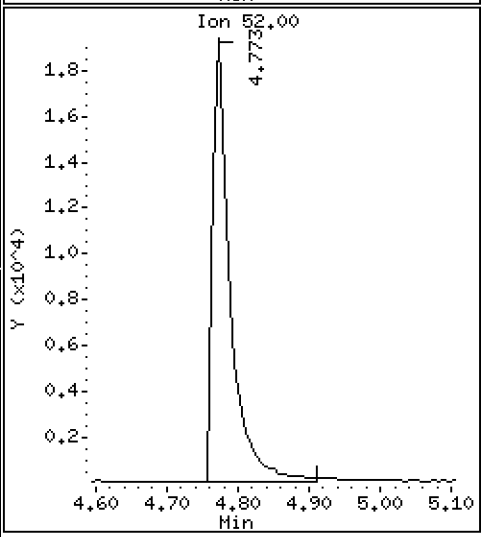
103 Pyridine

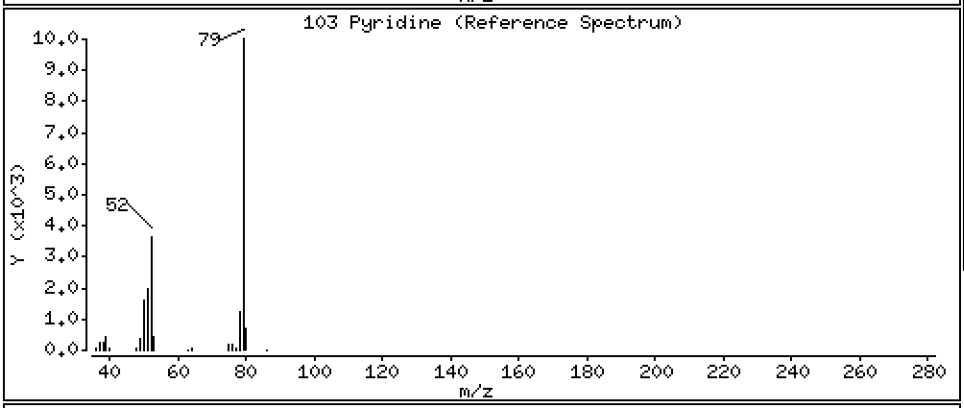
Concentration: 0.5100 ug/mL

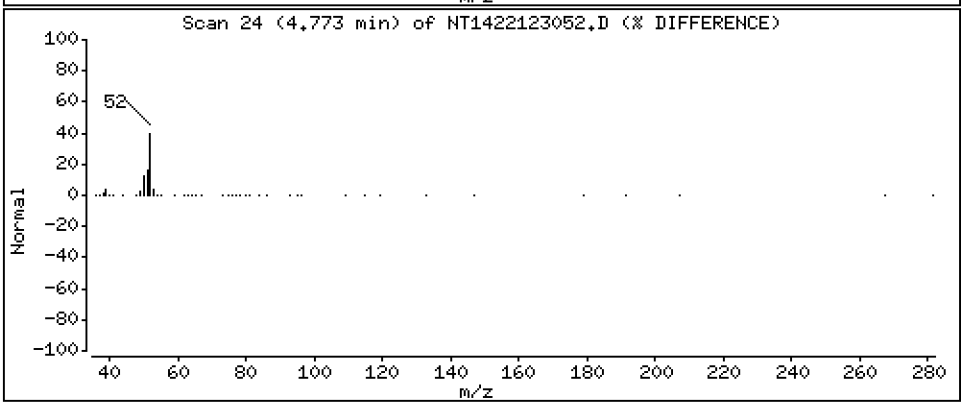












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

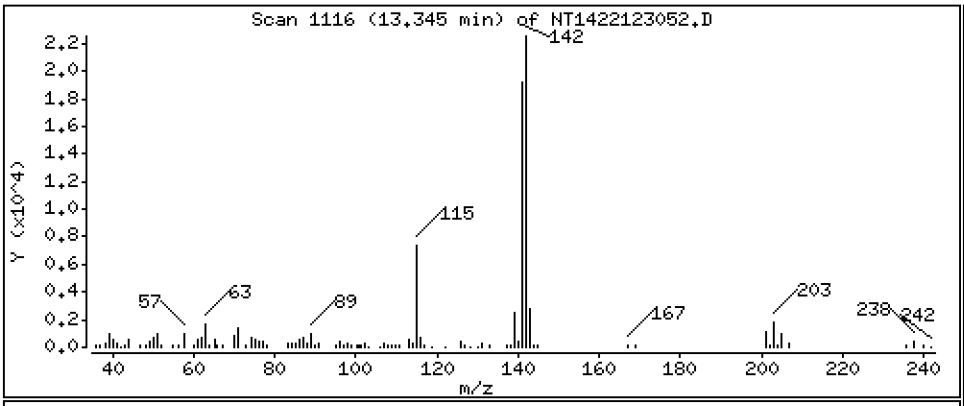
Operator: VTS

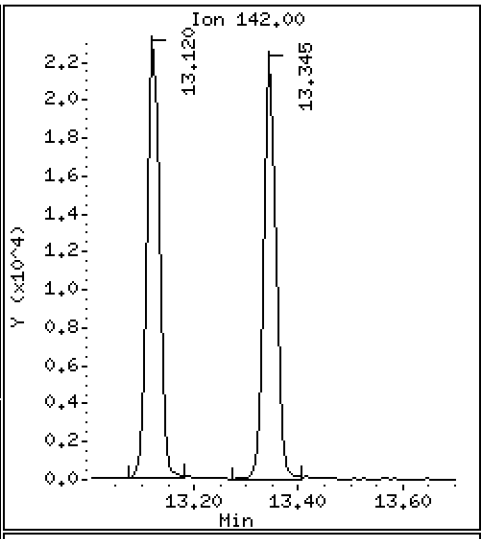
Column phase: ZB-5msi

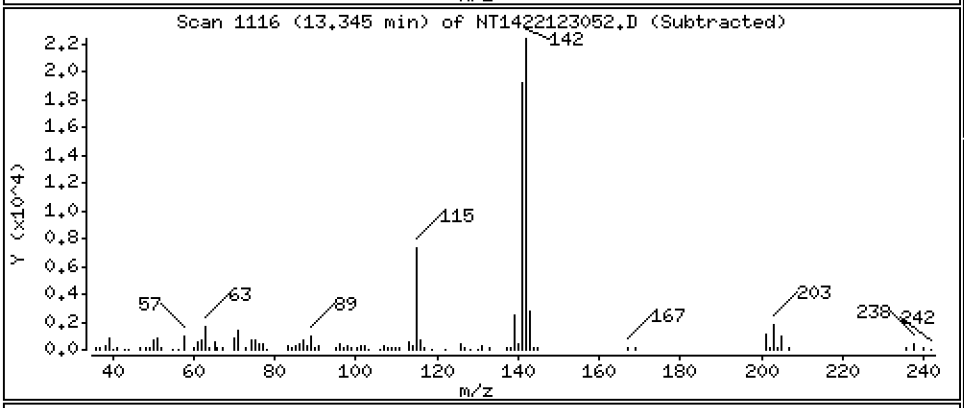
Column diameter: 0.25

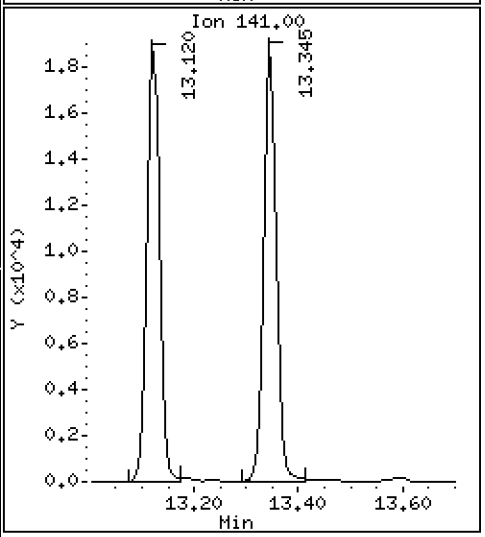
105 1-methylnaphthalene

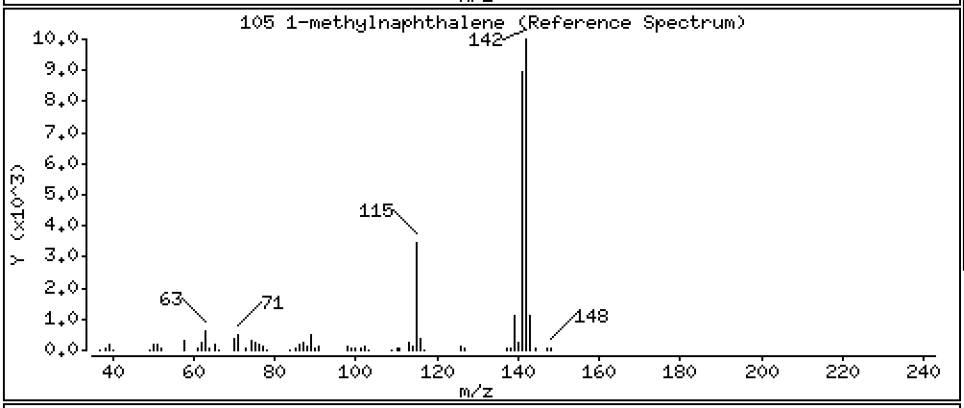
Concentration: 0.4765 ug/mL

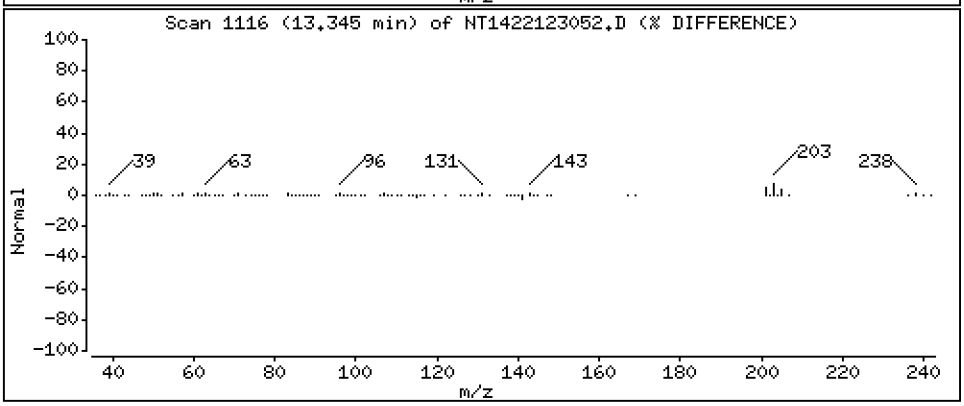












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

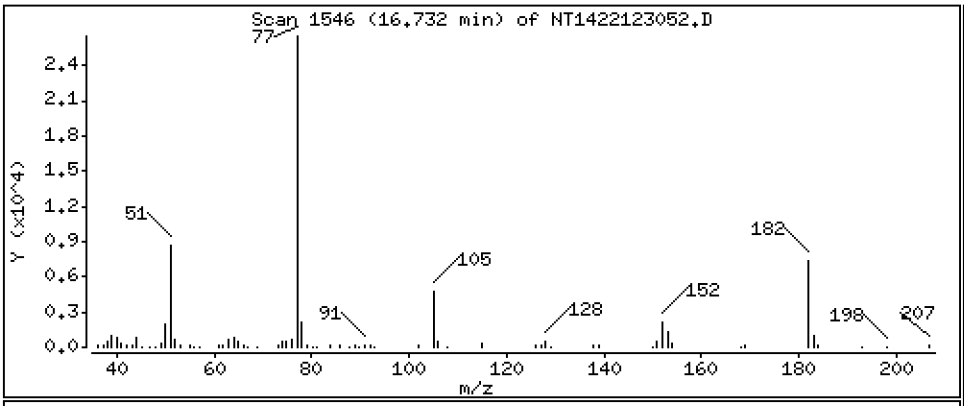
Operator: VTS

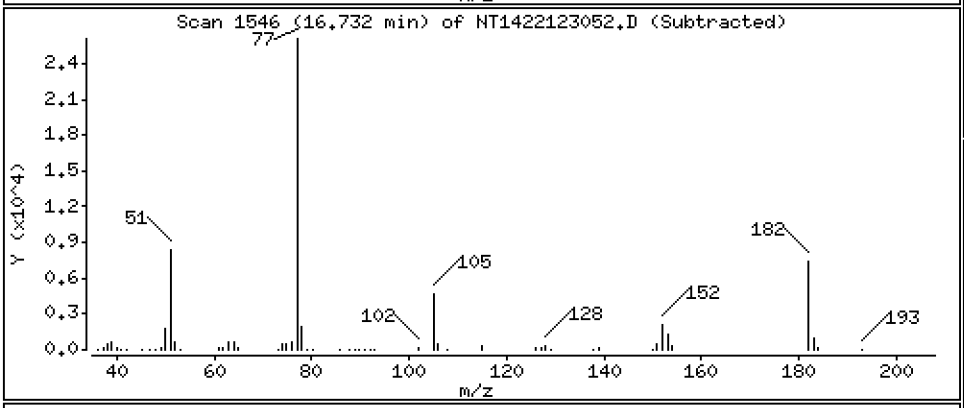
Column phase: ZB-5msi

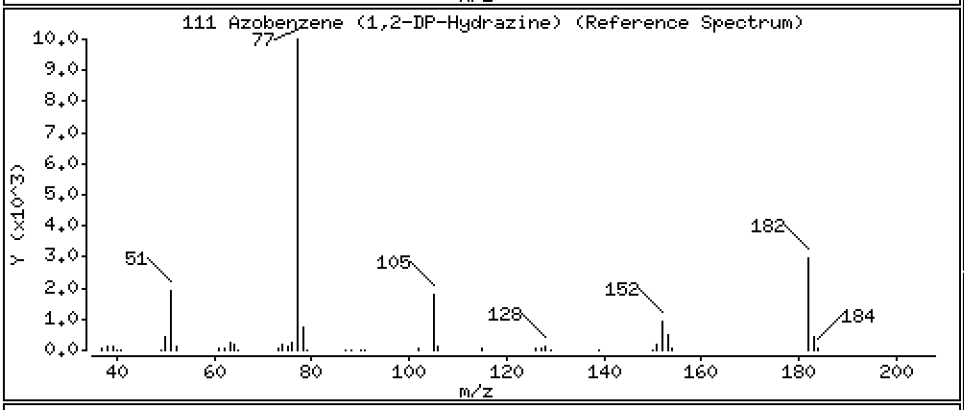
Column diameter: 0.25

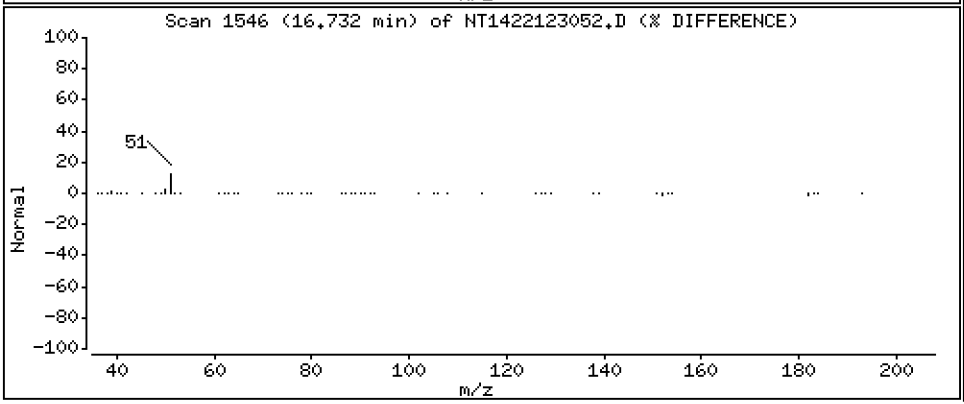
111 Azobenzene (1,2-DP-Hydrazine)

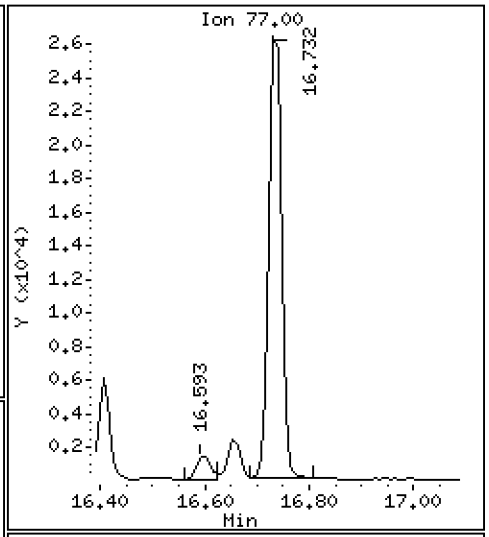
Concentration: 0.5124 ug/mL

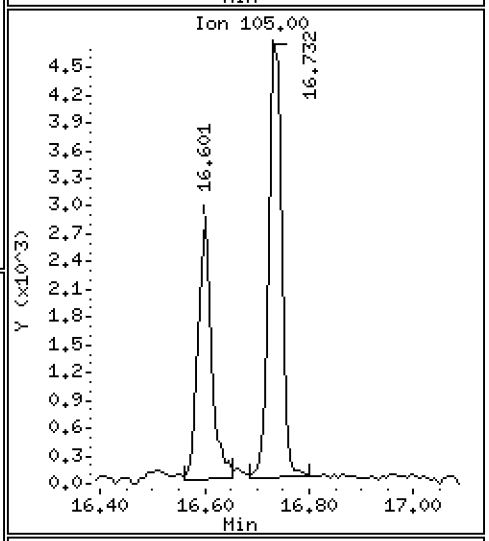


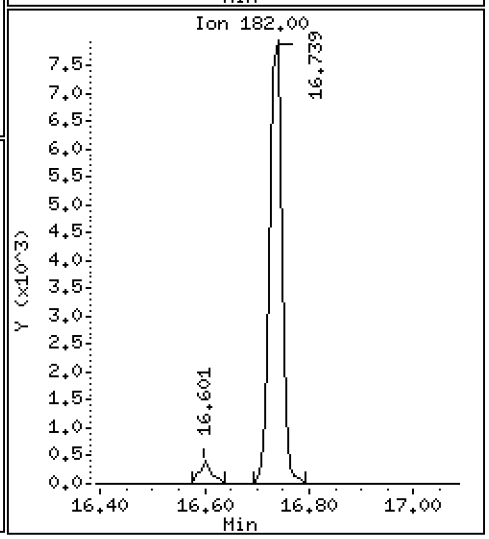












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

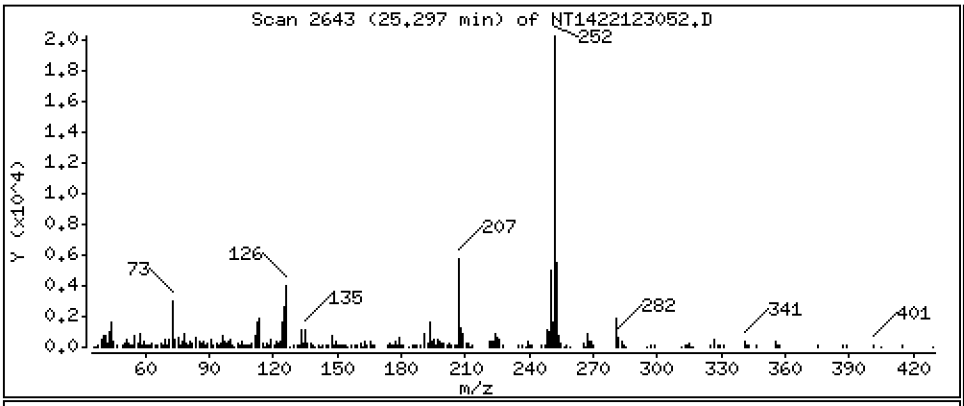
Operator: VTS

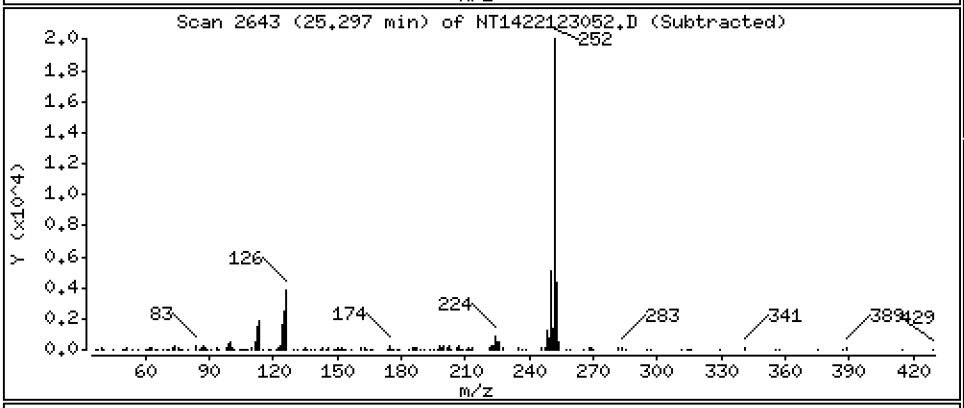
Column phase: ZB-5msi

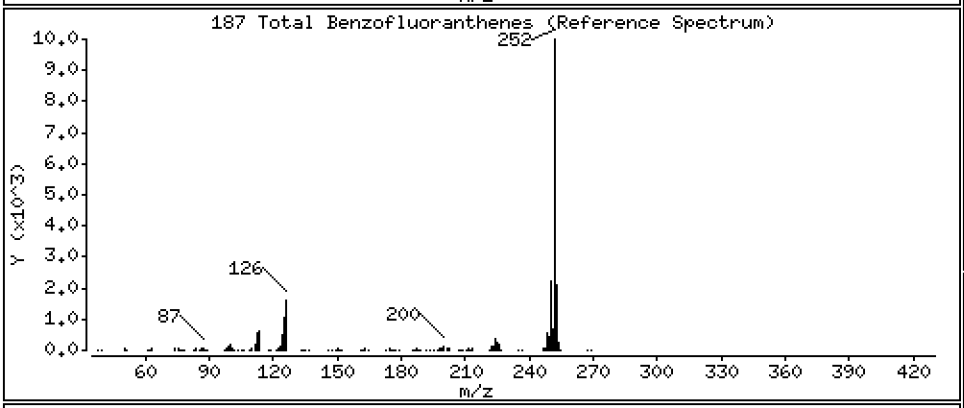
Column diameter: 0.25

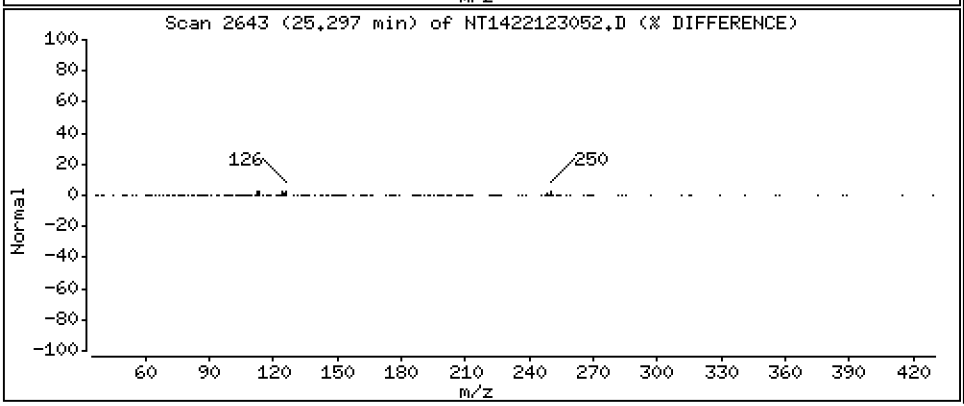
187 Total Benzofluoranthenes

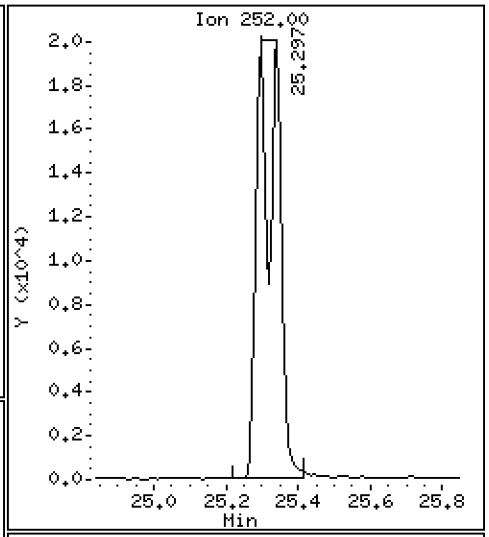
Concentration: 1.022 ug/mL

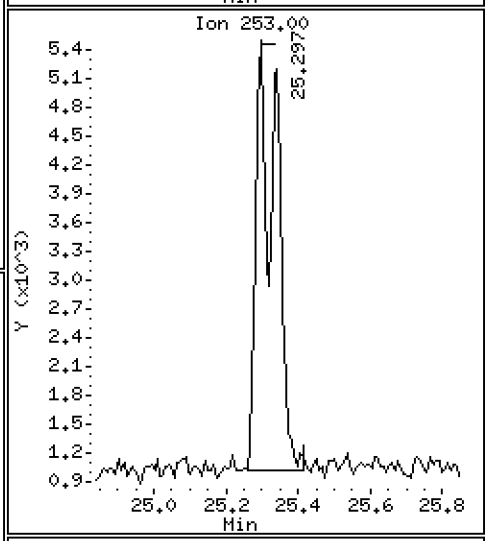


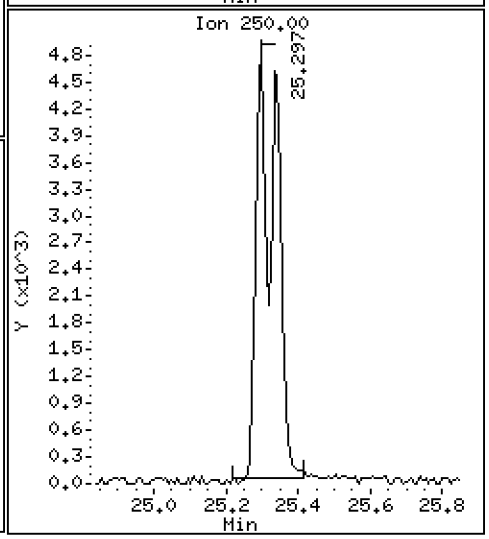












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

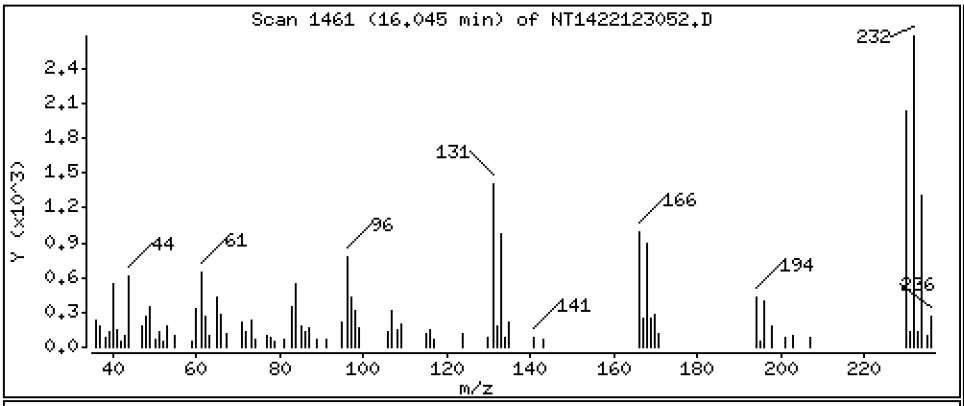
Operator: VTS

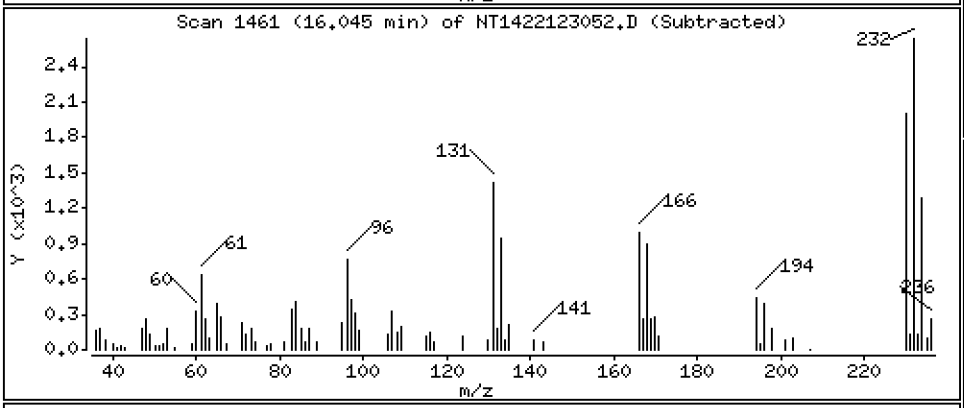
Column phase: ZB-5msi

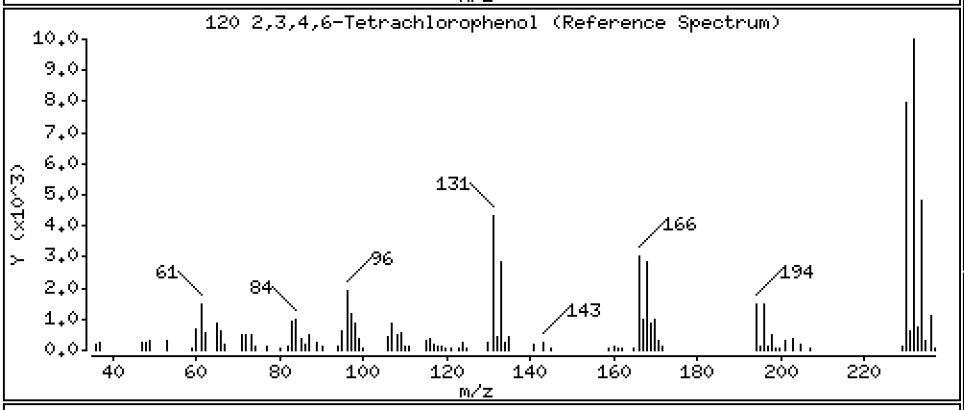
Column diameter: 0.25

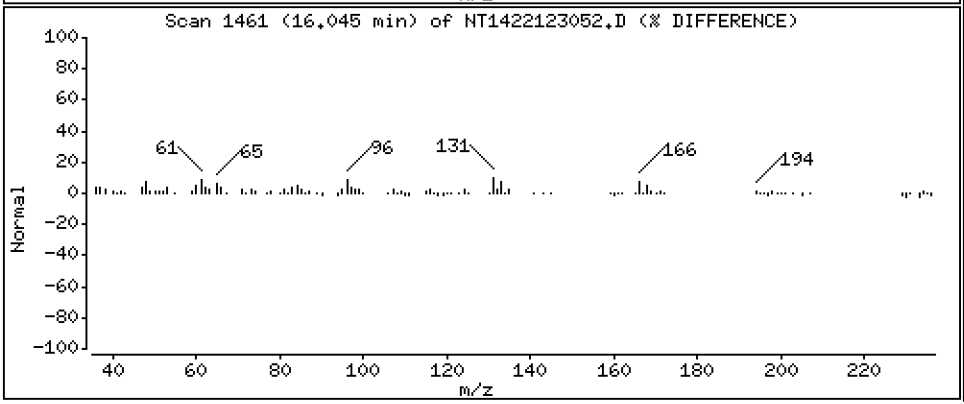
120 2,3,4,6-Tetrachlorophenol

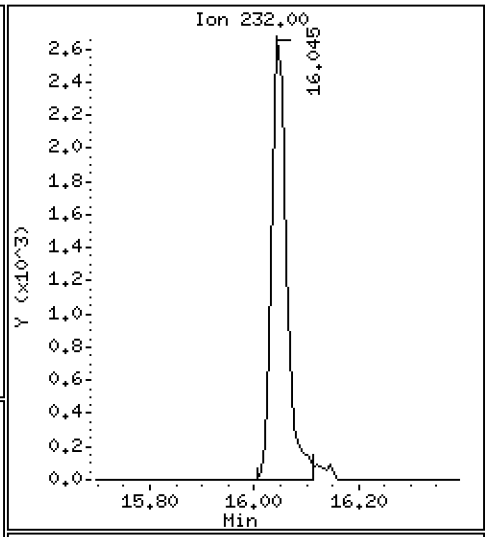
Concentration: 0.3296 ug/mL

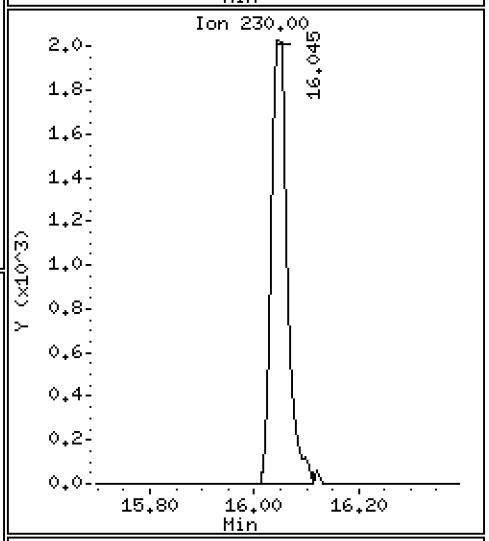


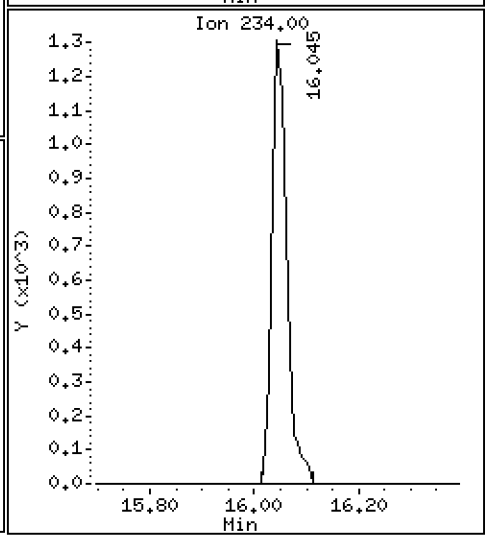












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230B.b\NT1422123052.D
Lab Smp Id: SKL0356-LCV2
Inj Date : 31-DEC-2022 15:05 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0356-LCV2
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230B.b\ABN.m
Meth Date : 04-Jan-2023 08:43 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.919	6.927	(0.755)	27373	0.71127	0.7113
$	2 Phenol-d5	99	8.519	8.519	(0.929)	31285	0.65780	0.6578
	3 Phenol	94	8.542	8.542	(0.932)	26016	0.48140	0.4814
$	5 2-Chlorophenol-d4	132	8.804	8.804	(0.960)	27396	0.68588	0.6859
	4 Bis(2-Chloroethyl)ether	93	8.704	8.704	(0.949)	18062	0.48518	0.4852
	6 2-Chlorophenol	128	8.828	8.835	(0.963)	22183	0.50569	0.5057
	7 1,3-Dichlorobenzene	146	9.106	9.106	(0.993)	23016	0.49479	0.4948
*	8 1,4-Dichlorobenzene-d4	152	9.168	9.168	(1.000)	120125	4.00000	
	9 1,4-Dichlorobenzene	146	9.199	9.199	(1.003)	21701	0.49244	0.4924
$	10 1,2-Dichlorobenzene-d4	152	9.533	9.533	(1.040)	12849	0.47066	0.4707
	12 1,2-Dichlorobenzene	146	9.556	9.564	(1.042)	20928	0.48424	0.4842
	11 Benzyl alcohol	108	9.440	9.440	(1.030)	9113	0.37879	0.3788
	14 2,2'-oxybis(1-Chloropropane)	121	9.742	9.743	(1.063)	5781	0.46137	0.4614(M)
	13 2-Methylphenol	108	9.665	9.665	(1.054)	18978	0.48328	0.4833
	17 Hexachloroethane	117	10.162	10.162	(1.108)	6042	0.37278	0.3728
	16 N-Nitroso-di-n-propylamine	70	9.999	9.999	(1.091)	11134	0.46544	0.4654
	15 4-Methylphenol	108	9.936	9.937	(1.084)	19666	0.47473	0.4747
$	18 Nitrobenzene-d5	82	10.262	10.270	(0.879)	16741	0.45978	0.4598
	19 Nitrobenzene	77	10.301	10.301	(0.882)	16782	0.46409	0.4641
	20 Isophorone	82	10.751	10.759	(0.921)	19898	0.43175	0.4317
	21 2-Nitrophenol	139	10.938	10.938	(0.937)	10095	0.45609	0.4561
	22 2,4-Dimethylphenol	107	10.992	10.992	(0.942)	37295	0.98819	0.9882
	23 Bis(2-Chloroethoxy)methane	93	11.186	11.186	(0.958)	17353	0.48401	0.4840
	24 Benzoic acid	105	11.093	11.201	(0.950)	7598	0.33063	0.3306
	25 2,4-Dichlorophenol	162	11.403	11.403	(0.977)	31564	0.99218	0.9922
	26 1,2,4-Trichlorobenzene	180	11.588	11.589	(0.993)	16567	0.48162	0.4816
*	27 Naphthalene-d8	136	11.673	11.681	(1.000)	431181	4.00000	
	28 Naphthalene	128	11.712	11.720	(1.003)	51400	0.48439	0.4844
	29 4-Chloroaniline	127	11.843	11.843	(1.015)	38062	0.86979	0.8698
	30 Hexachlorobutadiene	225	12.083	12.083	(1.035)	8038	0.47097	0.4710
	31 4-Chloro-3-methylphenol	107	12.810	12.810	(1.097)	28593	0.95242	0.9524
	32 2-Methylnaphthalene	142	13.120	13.128	(1.124)	36399	0.46764	0.4676
	33 Hexachlorocyclopentadiene	237	13.592	13.592	(0.888)	1798	0.10740	0.1074

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.747	13.747	(0.898)	16457	0.89033	0.8903
	35	2,4,5-Trichlorophenol	196	13.824	13.824	(0.903)	19186	0.89935	0.8994
$	36	2-Fluorobiphenyl	172	13.909	13.909	(0.909)	35317	0.47432	0.4743
	37	2-Chloronaphthalene	162	14.118	14.126	(0.922)	30923	0.48818	0.4882
	38	2-Nitroaniline	65	14.373	14.373	(0.939)	15325	0.92024	0.9202
	39	Dimethylphthalate	163	14.807	14.807	(0.967)	29080	0.46562	0.4656
	40	Acenaphthylene	152	14.993	15.000	(0.979)	51393	0.53211	0.5321
	41	2,6-Dinitrotoluene	165	14.938	14.946	(0.976)	12001	0.85147	0.8515
*	42	Acenaphthene-d10	164	15.310	15.318	(1.000)	221457	4.00000	
	43	3-Nitroaniline	138	15.232	15.233	(0.995)	13712	0.80043	0.8004
	44	Acenaphthene	153	15.379	15.379	(1.005)	29746	0.49655	0.4966
	45	2,4-Dinitrophenol	184	15.449	15.441	(1.009)	1736	0.14499	0.1450(M)
	46	Dibenzofuran	168	15.704	15.712	(1.026)	44263	0.49272	0.4927
	47	4-Nitrophenol	109	15.596	15.549	(1.019)	5313	0.64751	0.6475(M)
	48	2,4-Dinitrotoluene	165	15.758	15.758	(1.029)	15060	0.77878	0.7788
	50	Diethylphthalate	149	16.268	16.268	(1.063)	45617	0.53738	0.5374
	49	Fluorene	166	16.423	16.423	(1.073)	46218	0.48362	0.4836
	51	4-Chlorophenyl-phenylether	204	16.407	16.415	(1.072)	21450	0.45846	0.4585
	52	4-Nitroaniline	138	16.508	16.508	(1.078)	16356	0.79260	0.7926
	53	4,6-Dinitro-2-methylphenol	198	16.600	16.608	(0.904)	11325	0.75665	0.7566
	54	N-Nitrosodiphenylamine	169	16.654	16.662	(0.907)	31251	0.51126	0.5113
$	55	2,4,6-Tribromophenol	330	16.963	16.963	(1.108)	5569	0.53587	0.5359
	56	4-Bromophenyl-phenylether	248	17.418	17.418	(0.949)	11348	0.49028	0.4903
	57	Hexachlorobenzene	284	17.742	17.742	(0.966)	12447	0.49003	0.4900
	58	Pentachlorophenol	266	18.098	18.098	(0.986)	2476	0.22496	0.2250(M)
*	59	Phenanthrene-d10	188	18.361	18.369	(1.000)	356219	4.00000	
	60	Phenanthrene	178	18.408	18.415	(1.003)	45378	0.48858	0.4886
	61	Anthracene	178	18.500	18.508	(1.008)	41525	0.46834	0.4683
	62	Carbazole	167	18.833	18.833	(1.026)	39496	0.46078	0.4608
	63	Di-n-butylphthalate	149	19.622	19.622	(1.069)	41551	0.42863	0.4286
	64	Fluoranthene	202	20.791	20.798	(0.888)	44087	0.46433	0.4643
	65	Pyrene	202	21.216	21.224	(0.906)	46707	0.46787	0.4679
$	66	Terphenyl-d14	244	21.495	21.495	(0.918)	32135	0.45398	0.4540
	67	Butylbenzylphthalate	149	22.416	22.416	(0.958)	16717	0.44361	0.4436
	68	Benzo(a)anthracene	228	23.376	23.376	(0.999)	43313	0.48487	0.4849
*	69	Chrysene-d12	240	23.407	23.407	(1.000)	294883	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.322	23.330	(0.996)	40436	1.47869	1.479
	71	Chrysene	228	23.446	23.454	(1.002)	41334	0.48986	0.4899
	72	bis(2-Ethylhexyl)phthalate	149	23.430	23.438	(0.959)	22969	0.47045	0.4704
*	134	Di-n-octylphthalate-d4	153	24.429	24.429	(1.000)	439623	4.00000	
	73	Di-n-octylphthalate	149	24.437	24.437	(1.000)	51489	0.48792	0.4879
	74	Benzo(b)fluoranthene	252	25.296	25.304	(0.969)	40786	0.50793	0.5079
	75	Benzo(k)fluoranthene	252	25.343	25.343	(0.971)	42127	0.51546	0.5155
	76	Benzo(a)pyrene	252	25.970	25.978	(0.995)	33479	0.50154	0.5015
*	77	Perylene-d12	264	26.094	26.094	(1.000)	255506	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.853	28.854	(1.106)	24548	0.32350	0.3235
	79	Dibenzo(a,h)anthracene	278	28.869	28.861	(1.106)	21258	0.32967	0.3297
	80	Benzo(g,h,i)perylene	276	29.669	29.669	(1.137)	17003	0.26748	0.2675
	90	N-Nitrosodimethylamine	74	4.726	4.726	(0.516)	26563	1.00220	1.002
	91	Aniline	93	8.611	8.619	(0.939)	51051	0.97019	0.9702
	93	Benzidine	184	21.023	21.015	(0.898)	29087	0.80389	0.8039
	103	Pyridine	79	4.772	4.757	(0.521)	42950	0.50997	0.5100
	105	1-methylnaphthalene	142	13.344	13.352	(1.143)	35633	0.47646	0.4765
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.731	16.739	(1.093)	42141	0.51242	0.5124

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.296	25.343	(0.969)	79350	1.02214	1.022
120 2,3,4,6-Tetrachlorophenol	232	16.044	16.044	(1.048)	5147	0.32962	0.3296

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123052.D
Lab Smp Id: SKL0356-LCV2
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230B.b\ABN.m
Misc Info:

Calibration Date: 31-DEC-2022
Calibration Time: 13:17
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	134439	67220	268878	120125	-10.65
27 Naphthalene-d8	492388	246194	984776	431181	-12.43
42 Acenaphthene-d10	270679	135340	541358	221457	-18.18
59 Phenanthrene-d10	429616	214808	859232	356219	-17.08
69 Chrysene-d12	376030	188015	752060	294883	-21.58
134 Di-n-octylphthala	634628	317314	1269256	439623	-30.73
77 Perylene-d12	336225	168113	672450	255506	-24.01

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.17	8.67	9.67	9.17	-0.00
27 Naphthalene-d8	11.68	11.18	12.18	11.67	-0.07
42 Acenaphthene-d10	15.32	14.82	15.82	15.31	-0.05
59 Phenanthrene-d10	18.37	17.87	18.87	18.36	-0.04
69 Chrysene-d12	23.41	22.91	23.91	23.41	-0.00
134 Di-n-octylphthala	24.43	23.93	24.93	24.43	-0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	-0.00

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

REVIEW SUMMARY FOR FILE - NT1422123052.D

Lab ID: SKL0356-LCV2
nt14.i, 20221230B.b\ABN.m,   31-DEC-2022 15:05

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.950	0.959	-0.0087	Benzoic acid

RRT check based on Ccal File: NT1422123049.D

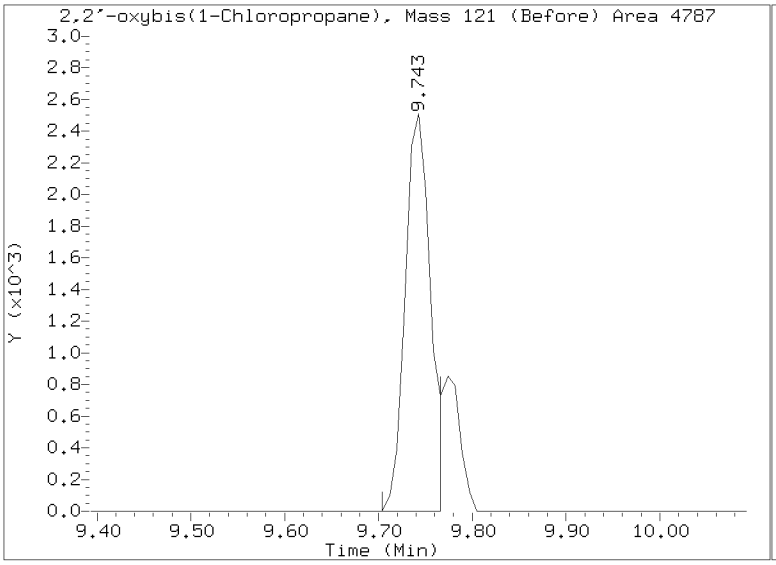
On Column LOD for nt14.i, 20221230B.b\ABN.m, ICAL.sub = 0.0000

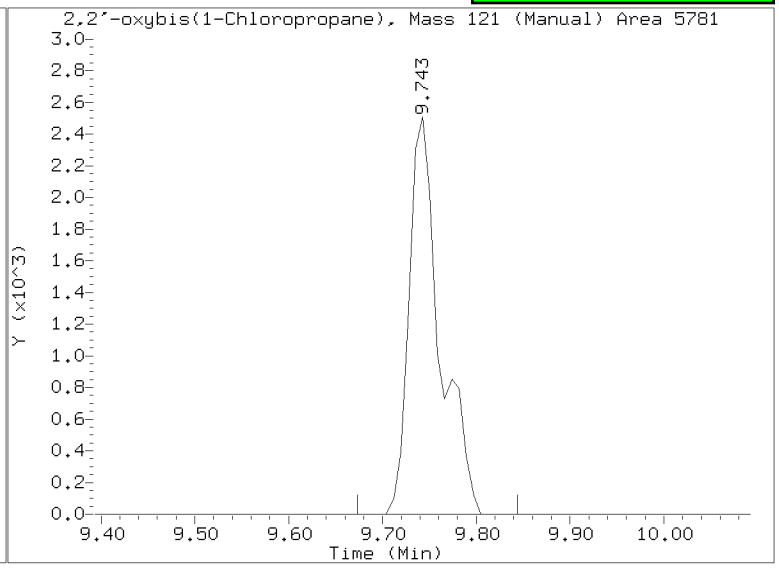
* Only compounds listed in the work order have been verified by the analyst *

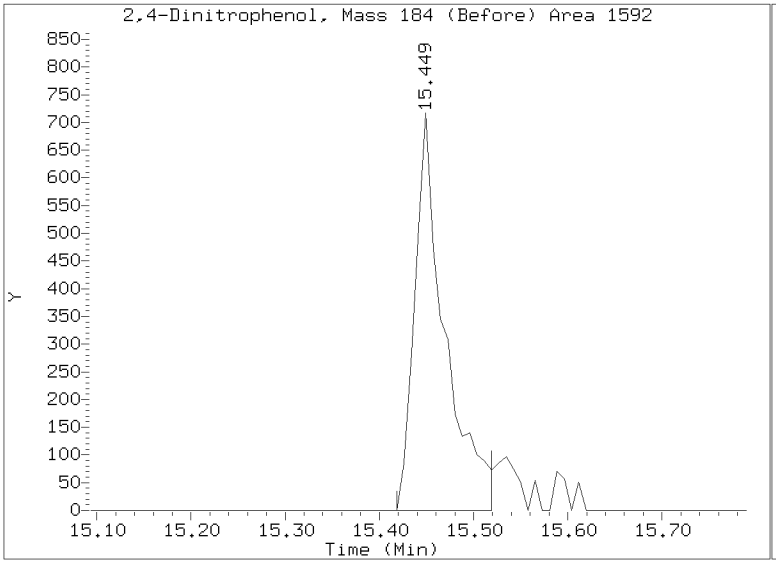
Quant Ion Manual Peak Adjustment Report

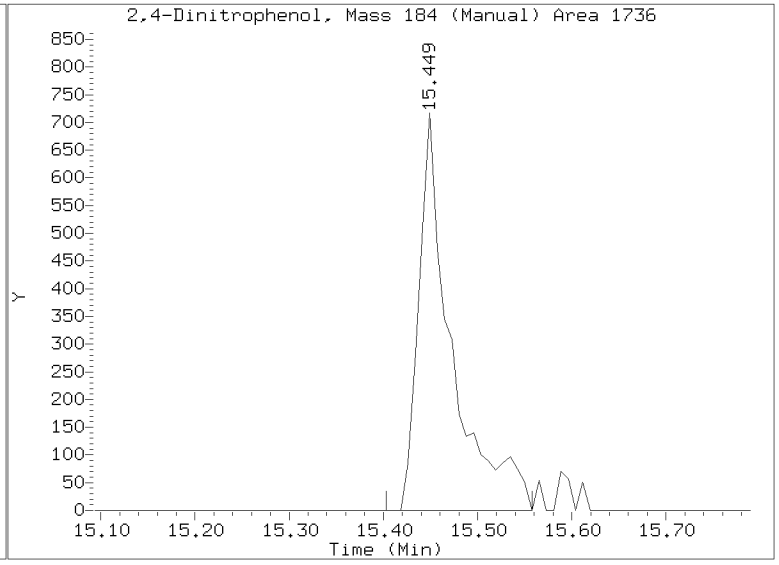
Datafile: //target/share/chem3/nt14.i/20221230B.b/NT1422123052.D
Injection Date: 31-DEC-2022 15:05
Lab ID:SKL0356-LCV2 Client ID:
Report Date: 01/04/2023 12:20

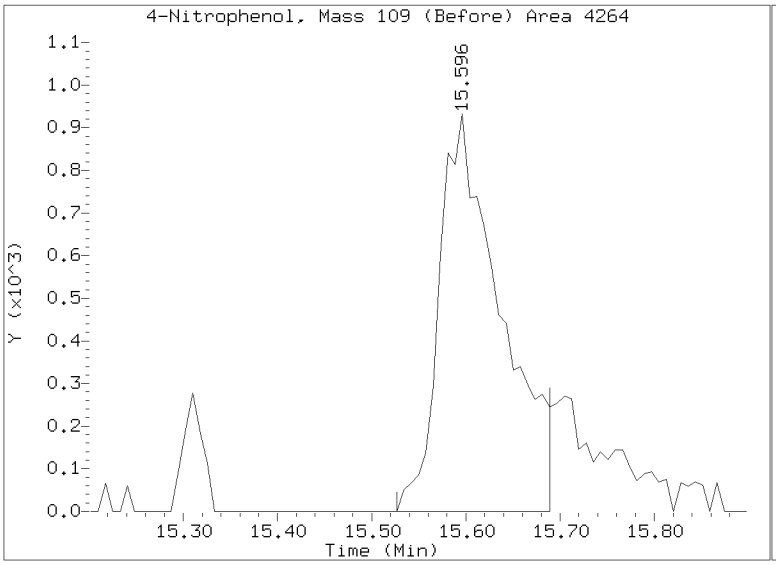
REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM

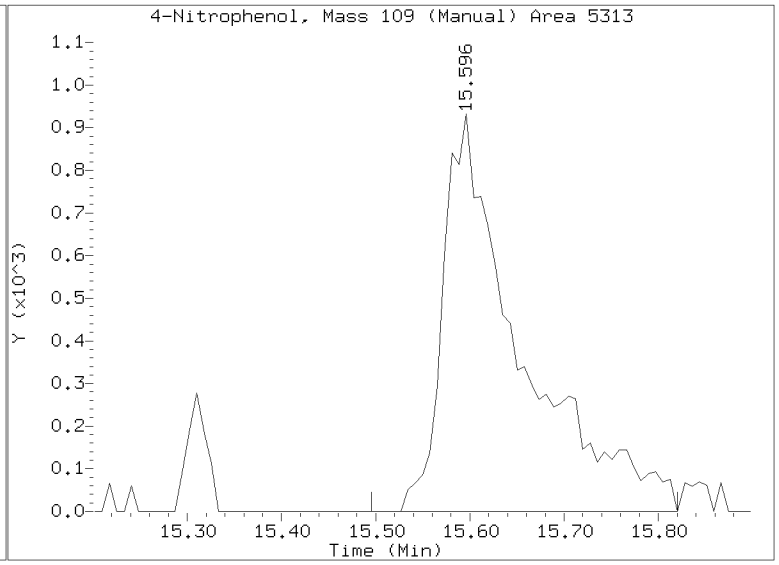








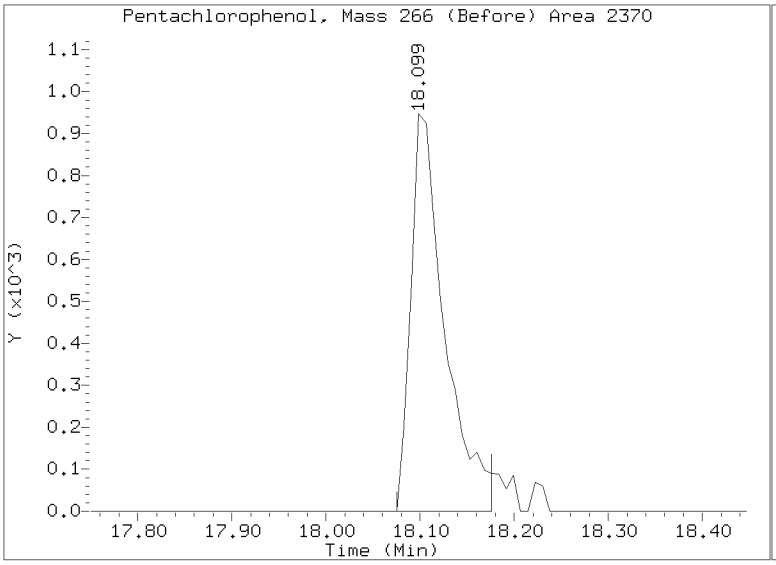


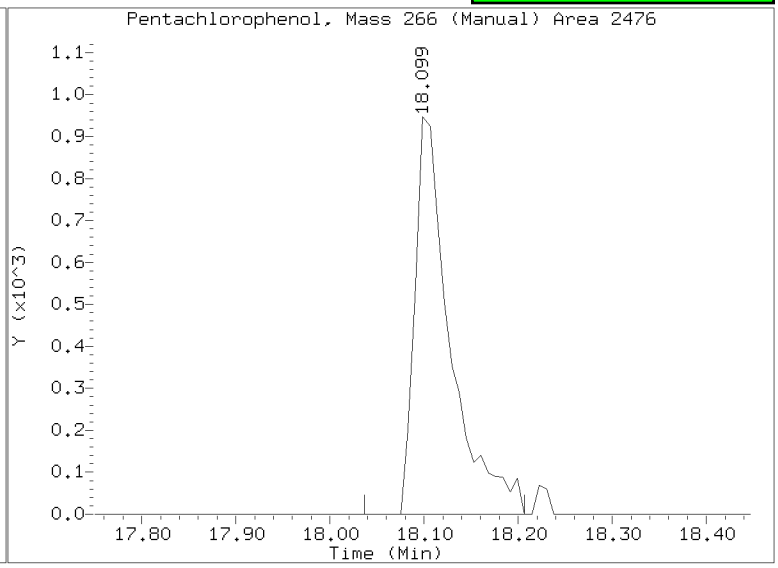


Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230B.b/NT1422123052.D
Injection Date: 31-DEC-2022 15:05
Lab ID:SKL0356-LCV2 Client ID:
Report Date: 01/04/2023 12:20

REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM





LOW-CONCENTRATION CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00066
Laboratory ID: SKL0355-LCV3
Sequence: SKL0355
Standard ID: K011105

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Phenol	0.20000	0.2	13.7	50.00
bis(2-chloroethyl) ether	0.20000	0.2	19.6	50.00
2-Chlorophenol	0.20000	0.2	23.1	50.00
1,3-Dichlorobenzene	0.20000	0.2	23.5	50.00
1,4-Dichlorobenzene	0.20000	0.3	25.1	50.00
1,2-Dichlorobenzene	0.20000	0.2	21.0	50.00
Benzyl Alcohol	0.20000	0.2	-17.4	50.00
2,2'-Oxybis(1-chloropropane)	0.20000	0.2	21.5	50.00
2-Methylphenol	0.20000	0.2	10.4	50.00
Hexachloroethane	0.20000	0.2	-1.0	50.00
N-Nitroso-di-n-Propylamine	0.20000	0.2	17.6	50.00
4-Methylphenol	0.20000	0.2	4.0	50.00
Nitrobenzene	0.20000	0.2	11.5	50.00
Isophorone	0.20000	0.2	-1.4	50.00
2-Nitrophenol	0.20000	0.2	5.8	50.00
2,4-Dimethylphenol	0.40000	0.5	14.7	50.00
Bis(2-Chloroethoxy)methane	0.20000	0.2	18.0	50.00
2,4-Dichlorophenol	0.40000	0.4	2.5	50.00
1,2,4-Trichlorobenzene	0.20000	0.2	20.1	50.00
Naphthalene	0.20000	0.2	17.7	50.00
Benzoic acid	0.80000	0.2	-73.8	50.00
4-Chloroaniline	0.40000	0.4	1.3	50.00
Hexachlorobutadiene	0.20000	0.2	19.0	50.00
4-Chloro-3-Methylphenol	0.40000	0.4	8.2	50.00
2-Methylnaphthalene	0.20000	0.2	13.5	50.00
Hexachlorocyclopentadiene	0.40000	0.04	-89.9	50.00
2,4,6-Trichlorophenol	0.40000	0.3	-13.9	50.00
2,4,5-Trichlorophenol	0.40000	0.4	-9.9	50.00
2-Chloronaphthalene	0.20000	0.2	17.3	50.00

LOW-CONCENTRATION CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00066
Laboratory ID: SKL0355-LCV3
Sequence: SKL0355
Standard ID: K011105

2-Nitroaniline	0.40000	0.4	7.4	50.00
Acenaphthylene	0.20000	0.2	14.6	50.00
Dimethylphthalate	0.20000	0.2	6.9	50.00
2,6-Dinitrotoluene	0.40000	0.4	-4.5	50.00
Acenaphthene	0.20000	0.2	17.9	50.00
3-Nitroaniline	0.40000	0.4	-10.9	50.00
2,4-Dinitrophenol	0.80000	0.0		50.00
Dibenzofuran	0.20000	0.2	20.3	50.00
4-Nitrophenol	0.40000	0.3	-33.0	50.00
2,4-Dinitrotoluene	0.40000	0.3	-15.3	50.00
Fluorene	0.20000	0.2	16.7	50.00
4-Chlorophenylphenyl ether	0.20000	0.2	5.7	50.00
Diethyl phthalate	0.20000	0.3	29.8	50.00
4-Nitroaniline	0.40000	0.4	-6.5	50.00
4,6-Dinitro-2-methylphenol	0.80000	0.09	-88.4	50.00
N-Nitrosodiphenylamine	0.20000	0.3	25.4	50.00
4-Bromophenyl phenyl ether	0.20000	0.2	11.6	50.00
Hexachlorobenzene	0.20000	0.2	18.4	50.00
Pentachlorophenol	0.40000	0.02	-94.9	50.00
Phenanthrene	0.20000	0.2	19.8	50.00
Anthracene	0.20000	0.2	16.1	50.00
Carbazole	0.20000	0.2	15.4	50.00
Di-n-Butylphthalate	0.20000	0.2	13.6	50.00
Fluoranthene	0.20000	0.2	19.0	50.00
Pyrene	0.20000	0.2	16.7	50.00
Butylbenzylphthalate	0.20000	0.3	34.9	50.00
Benzo(a)anthracene	0.20000	0.3	32.0	50.00
3,3'-Dichlorobenzidine	0.60000	0.8	36.5	50.00
Chrysene	0.20000	0.2	21.4	50.00
bis(2-Ethylhexyl)phthalate	0.20000	0.3	30.5	50.00
Di-n-Octylphthalate	0.20000	0.2	23.0	50.00

LOW-CONCENTRATION CALIBRATION VERIFICATION

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00066
Laboratory ID: SKL0355-LCV3
Sequence: SKL0355
Standard ID: K011105

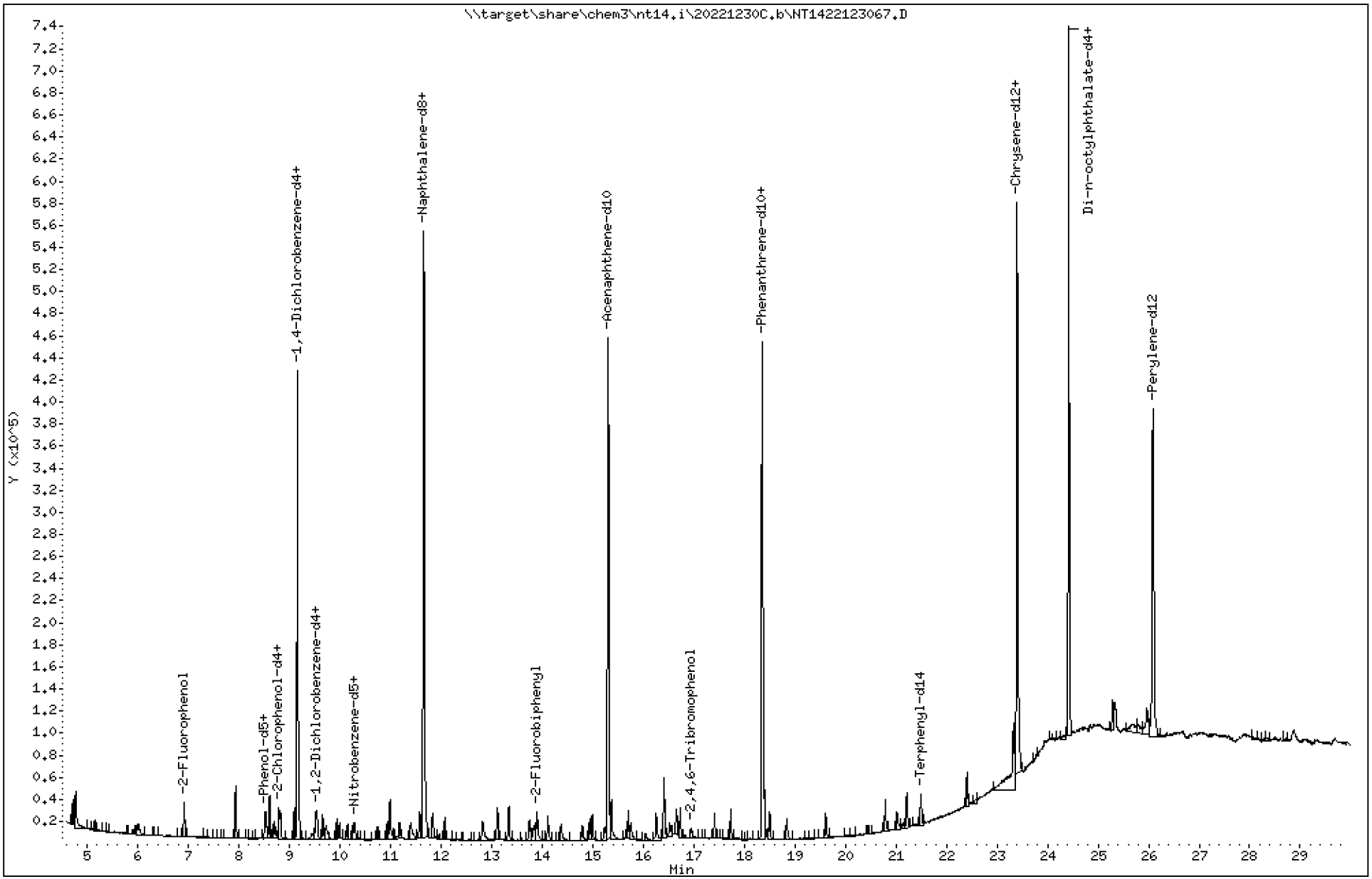
Benzofluoranthenes, Total	0.40000	0.5	31.6	50.00
Benzo(a)pyrene	0.20000	0.3	26.2	50.00
Indeno(1,2,3-cd)pyrene	0.20000	0.1	-25.3	50.00
Dibenzo(a,h)anthracene	0.20000	0.2	-24.6	50.00
Benzo(g,h,i)perylene	0.20000	0.1	-47.1	50.00
1-Methylnaphthalene	0.20000	0.2	13.7	50.00
2-Fluorophenol	0.30000	0.357	18.9	50.00
Phenol-d5	0.30000	0.312	4.0	50.00
2-Chlorophenol-d4	0.30000	0.337	12.3	50.00
1,2-Dichlorobenzene-d4	0.20000	0.240	20.2	50.00
Nitrobenzene-d5	0.20000	0.227	13.3	50.00
2-Fluorobiphenyl	0.20000	0.223	11.4	50.00
2,4,6-Tribromophenol	0.30000	0.225	-25.1	50.00
p-Terphenyl-d14	0.20000	0.222	11.1	50.00

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123067.D
Date : 01-JAN-2023 00:06
Client ID:
Sample Info: SKL0355-LCV3

Instrument: nt14.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

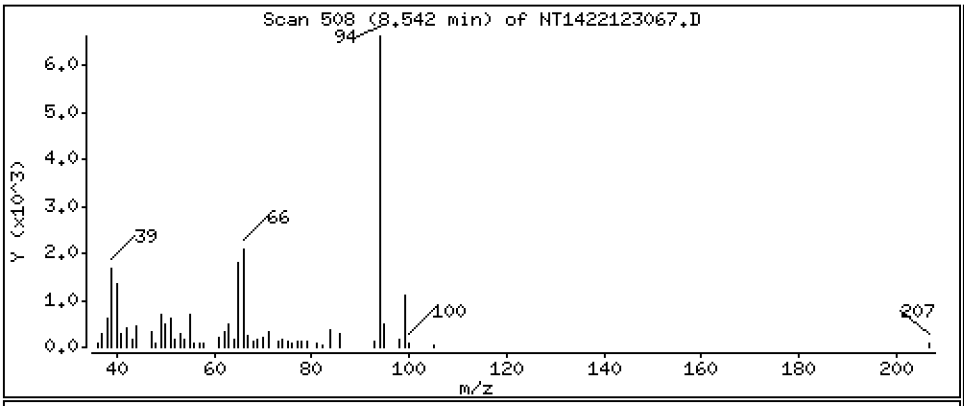
Operator: VTS

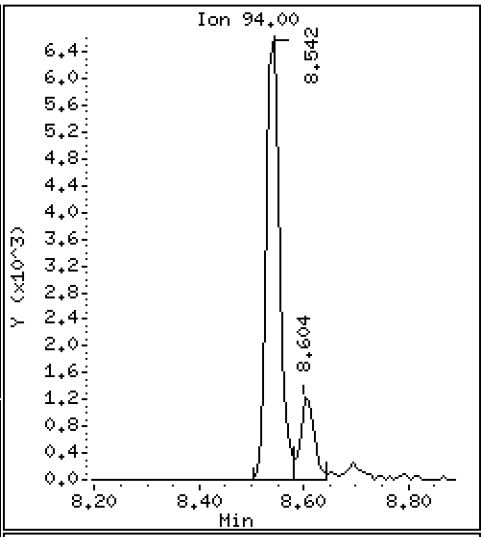
Column phase: ZB-5msi

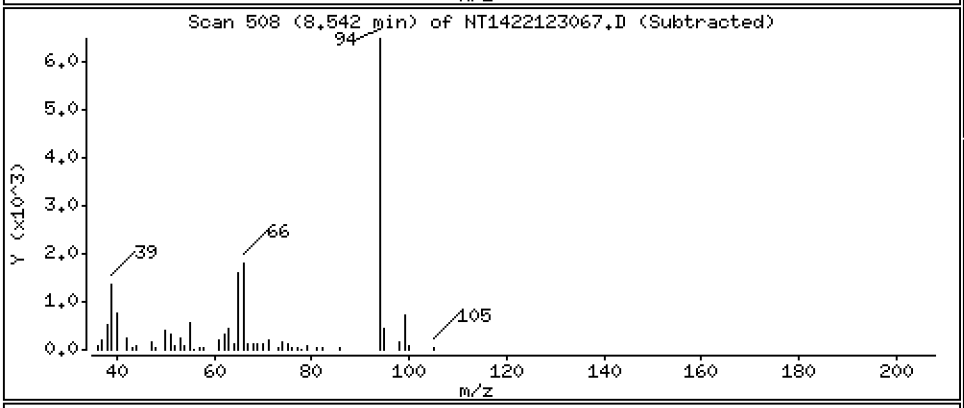
Column diameter: 0.25

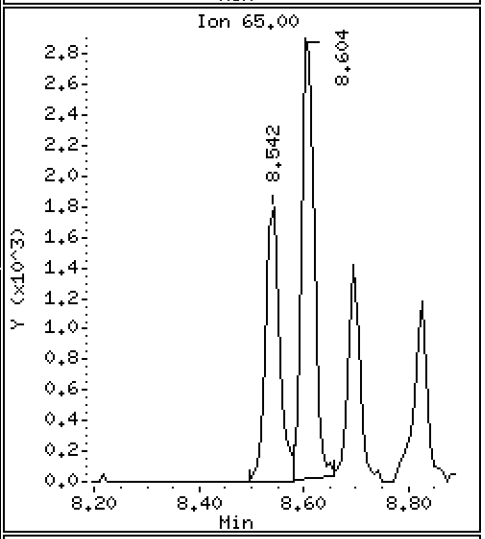
3 Phenol

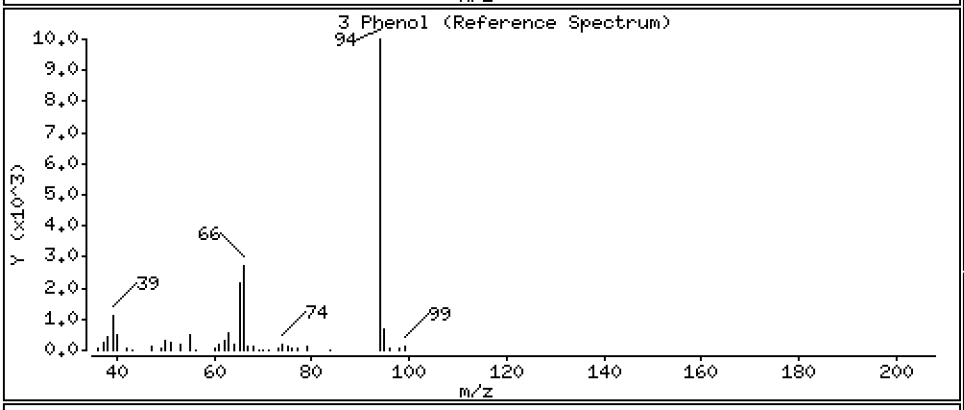
Concentration: 0.2273 ug/mL

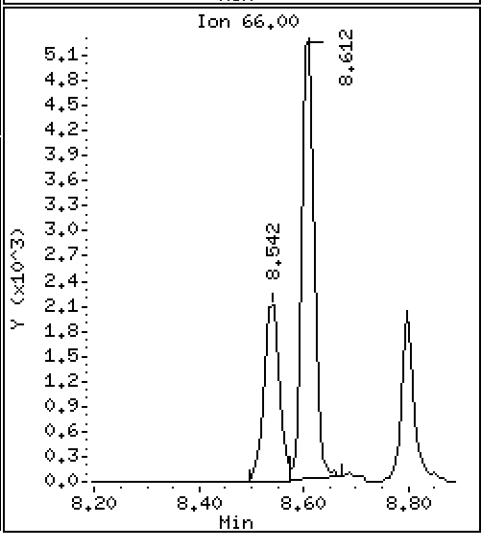


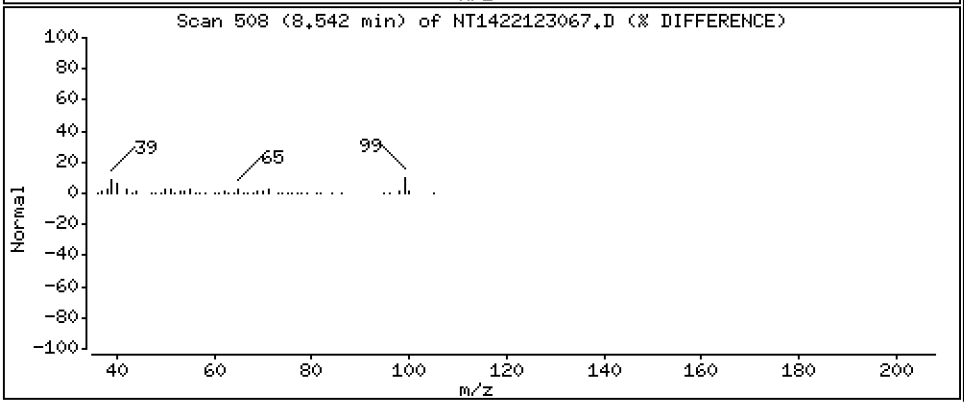












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

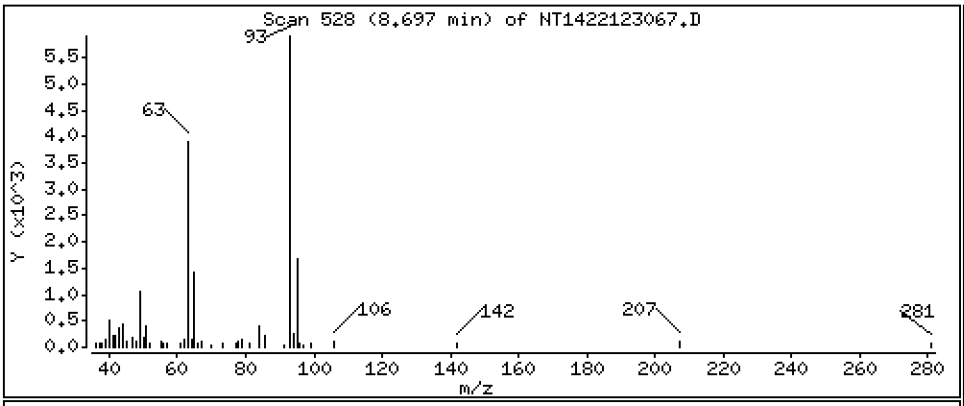
Operator: VTS

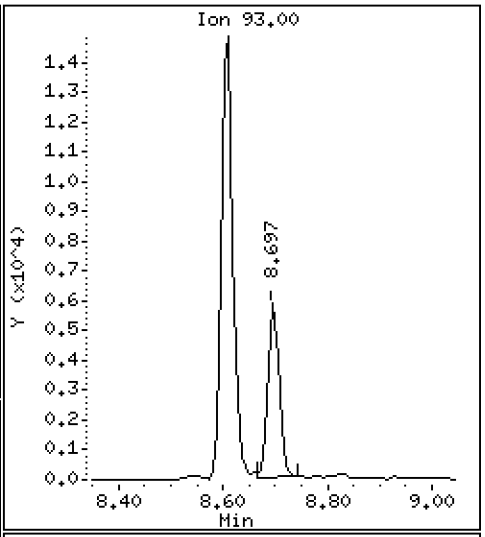
Column phase: ZB-5msi

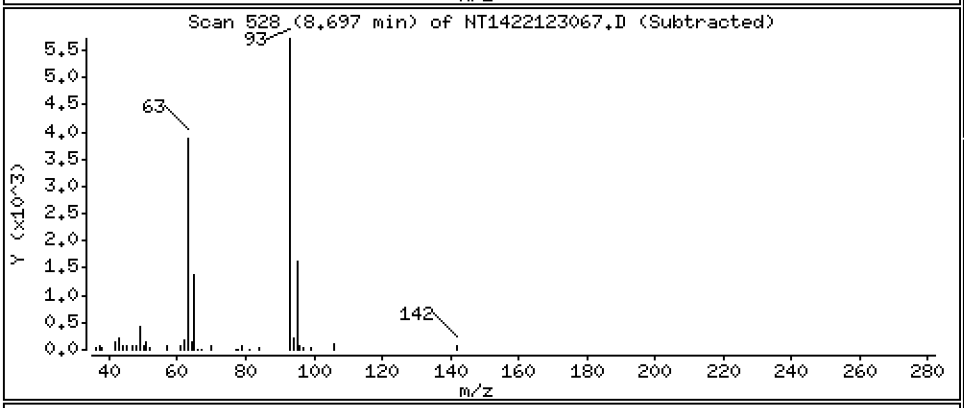
Column diameter: 0.25

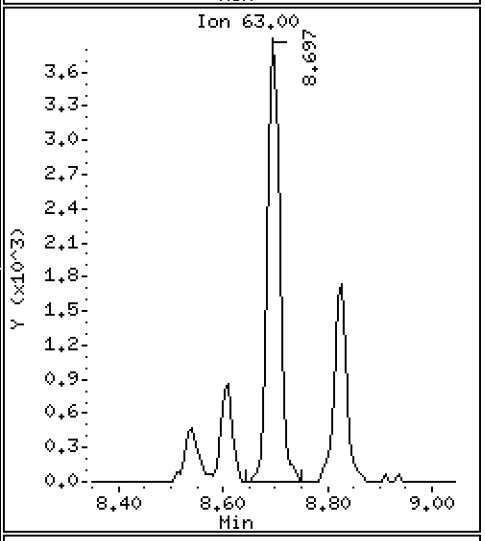
4 Bis(2-Chloroethyl)ether

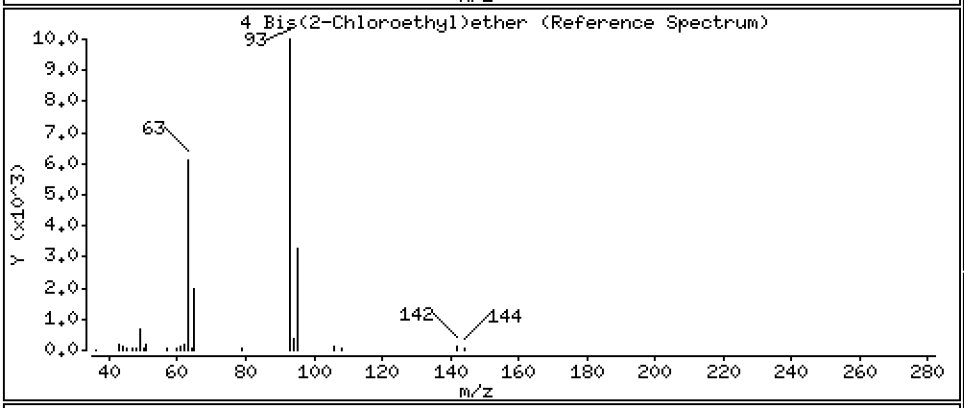
Concentration: 0.2393 ug/mL

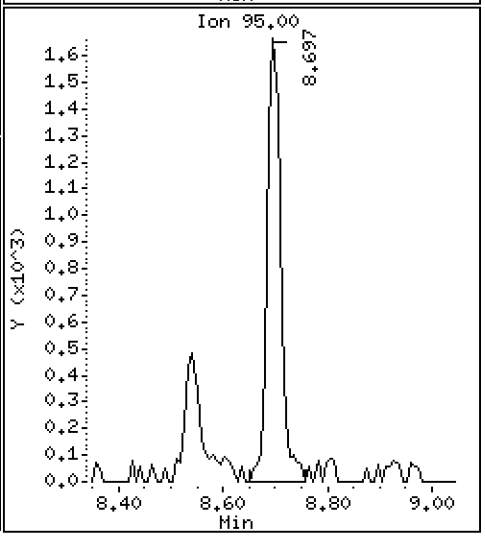


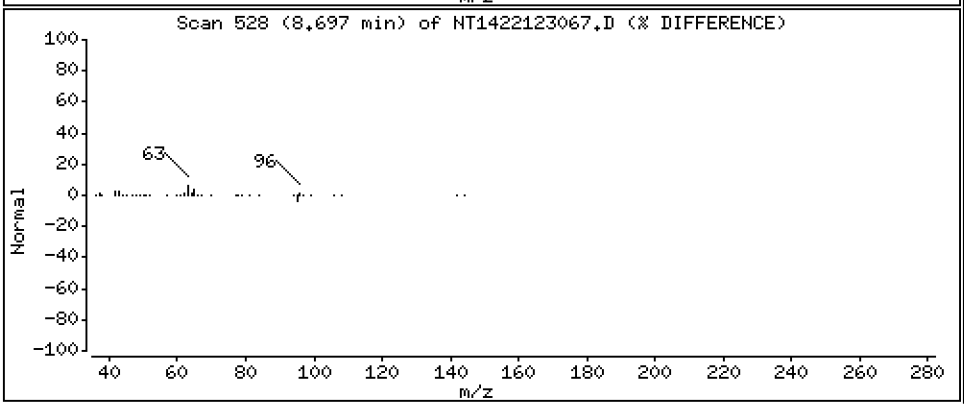












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

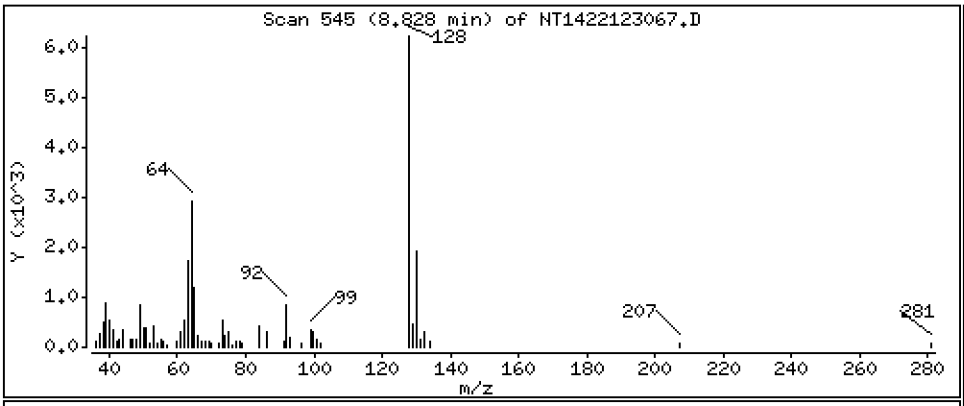
Operator: VTS

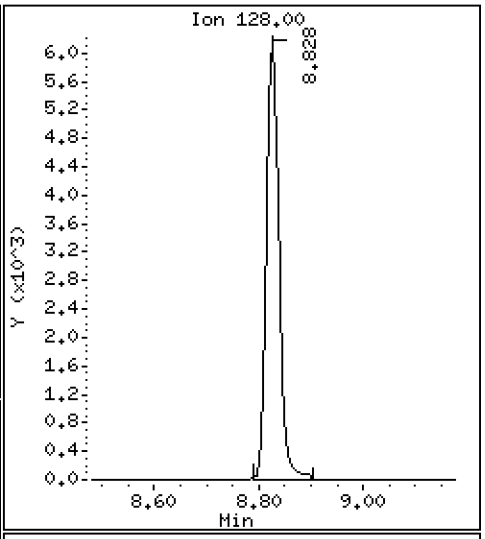
Column phase: ZB-5msi

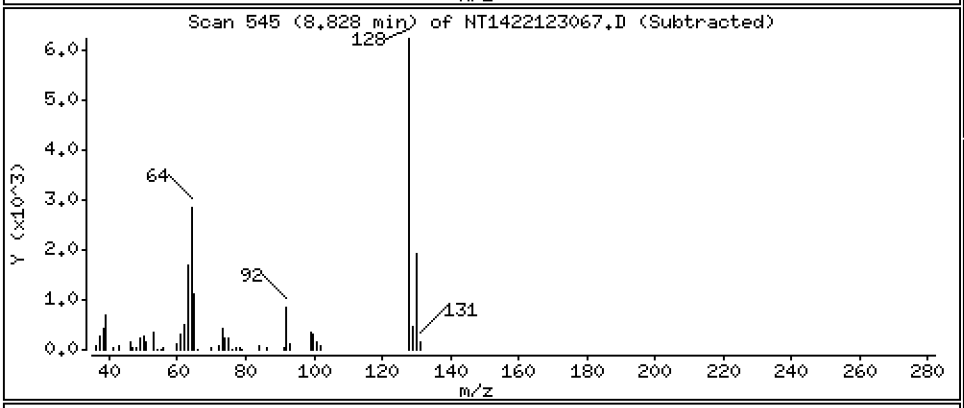
Column diameter: 0.25

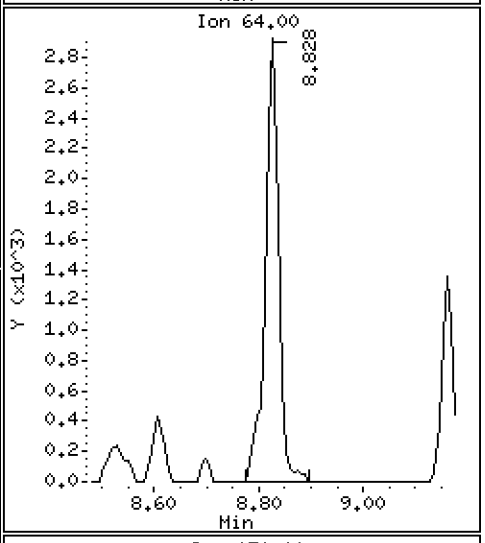
6 2-Chlorophenol

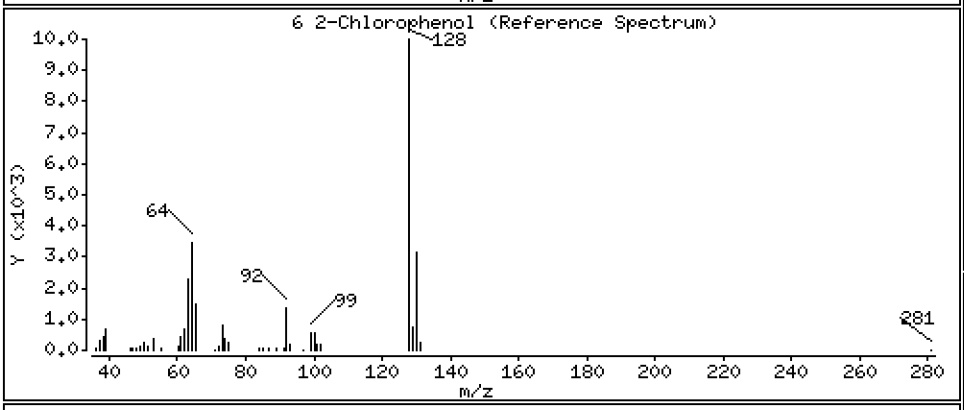
Concentration: 0.2462 ug/mL

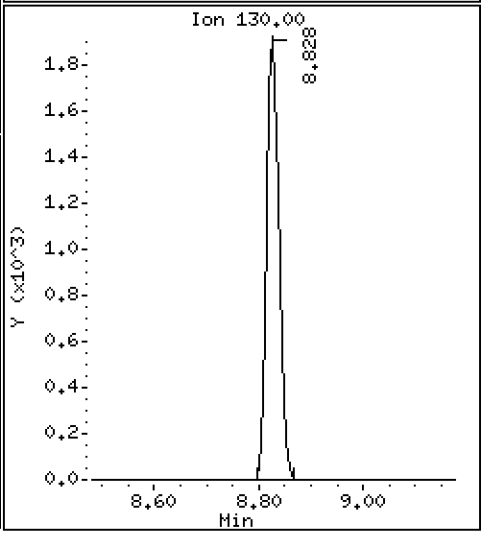


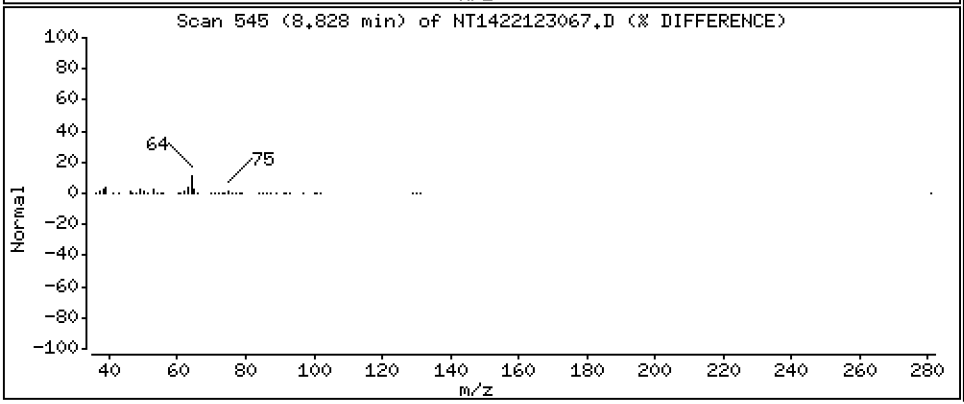












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

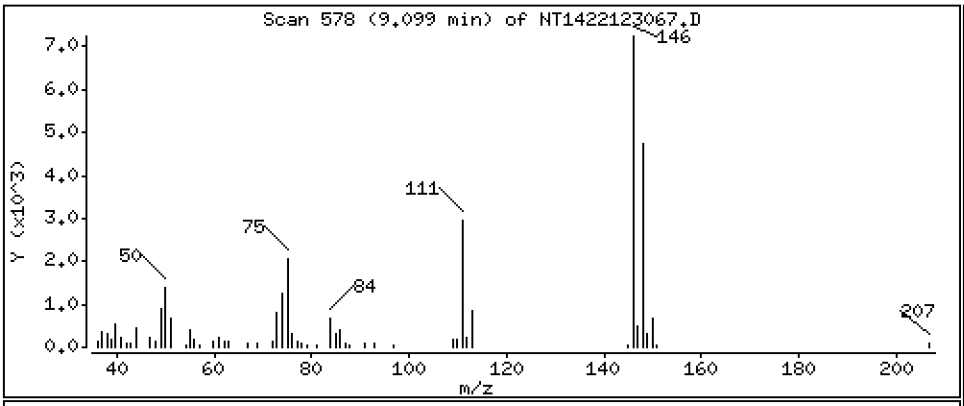
Operator: VTS

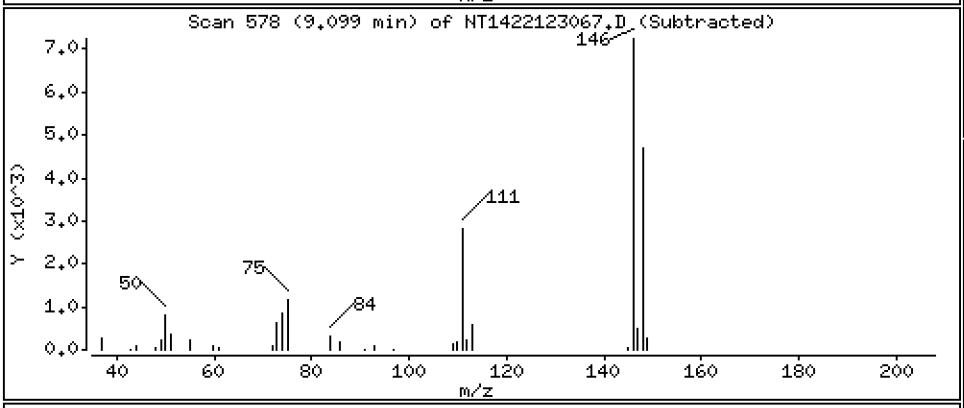
Column phase: ZB-5msi

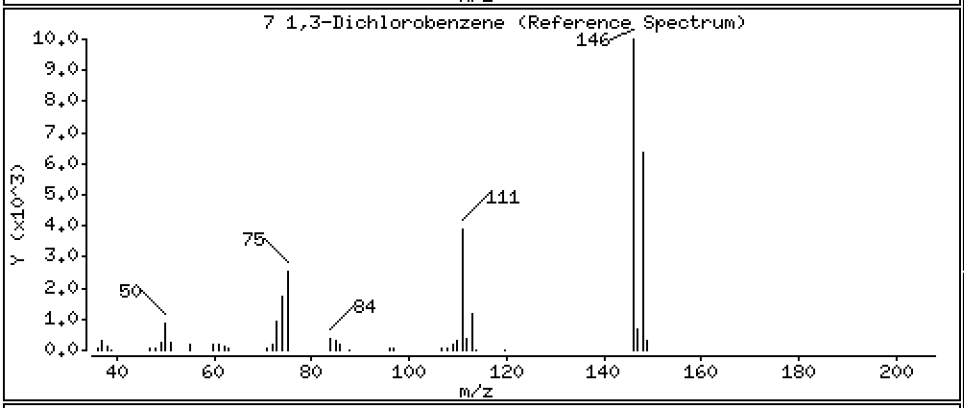
Column diameter: 0.25

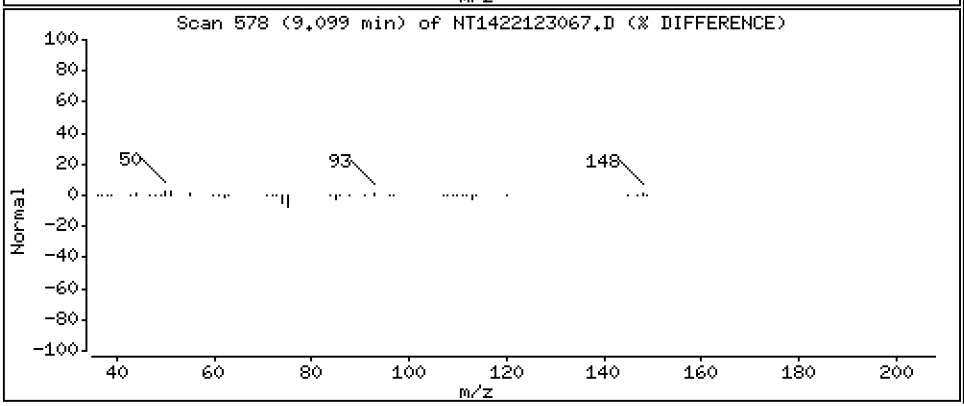
7 1,3-Dichlorobenzene

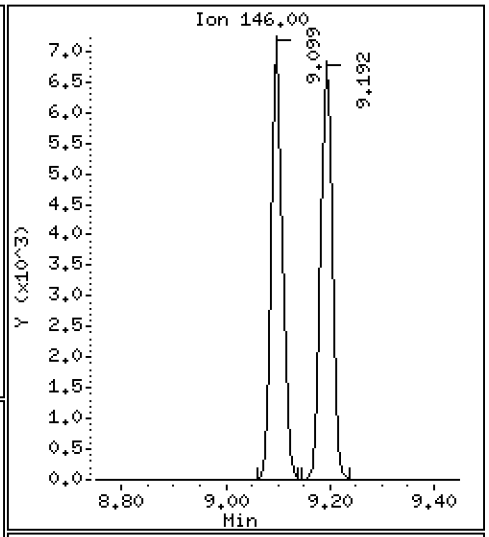
Concentration: 0.2470 ug/mL

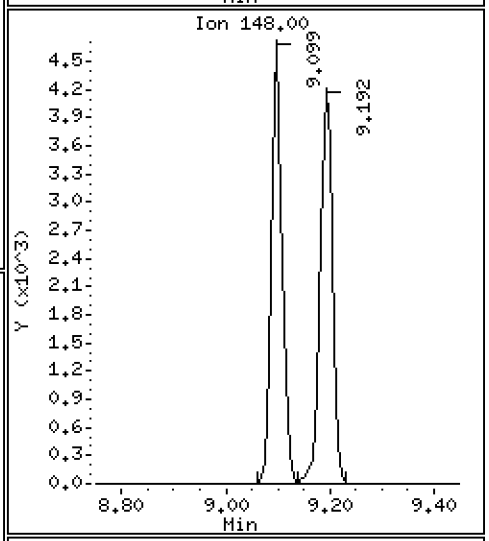


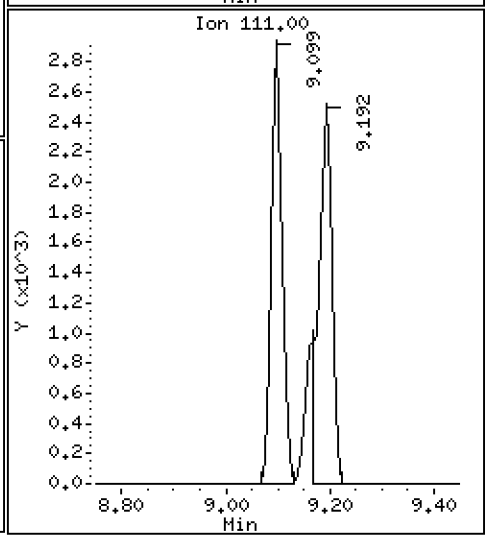












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

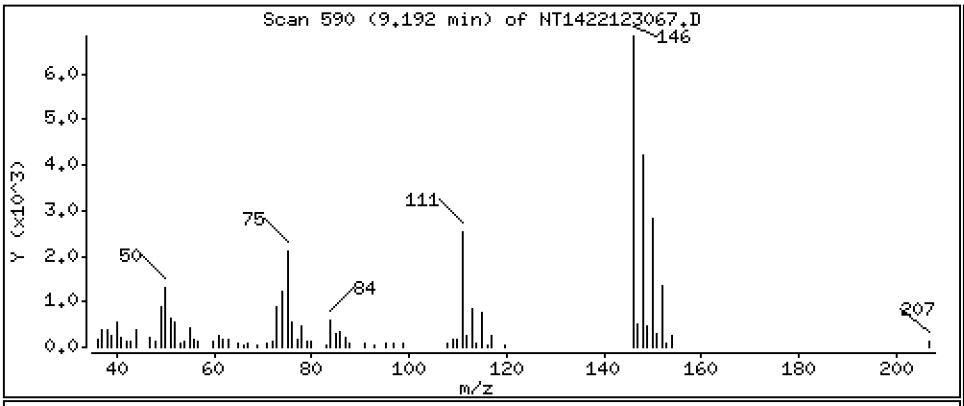
Operator: VTS

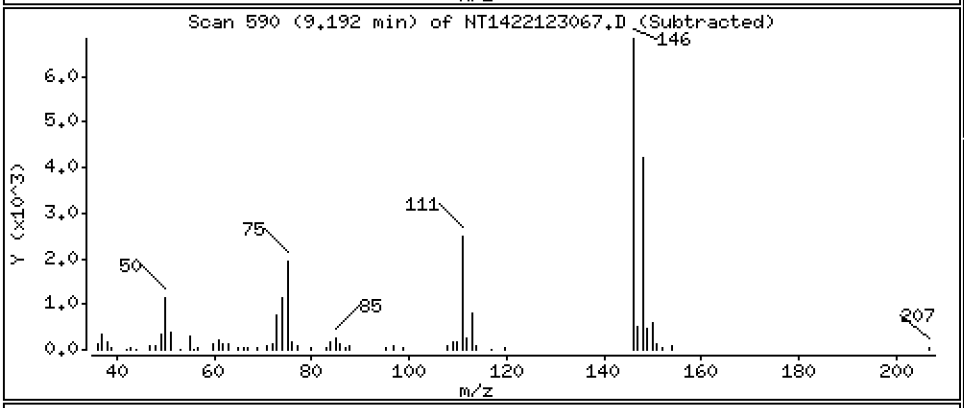
Column phase: ZB-5msi

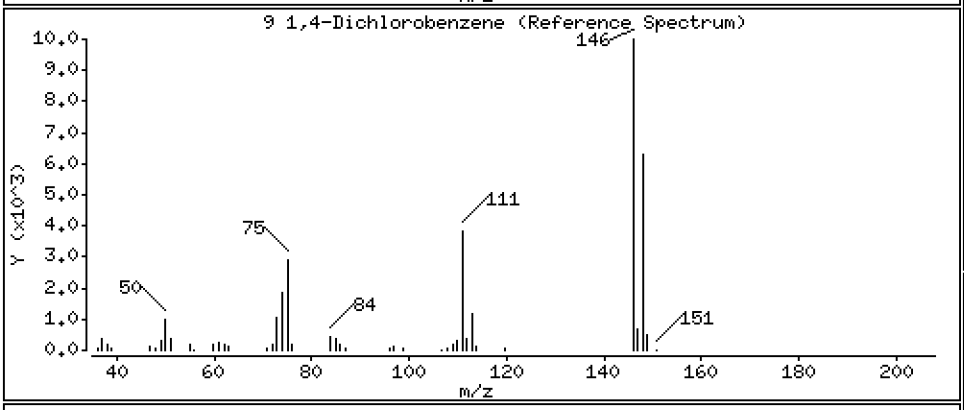
Column diameter: 0.25

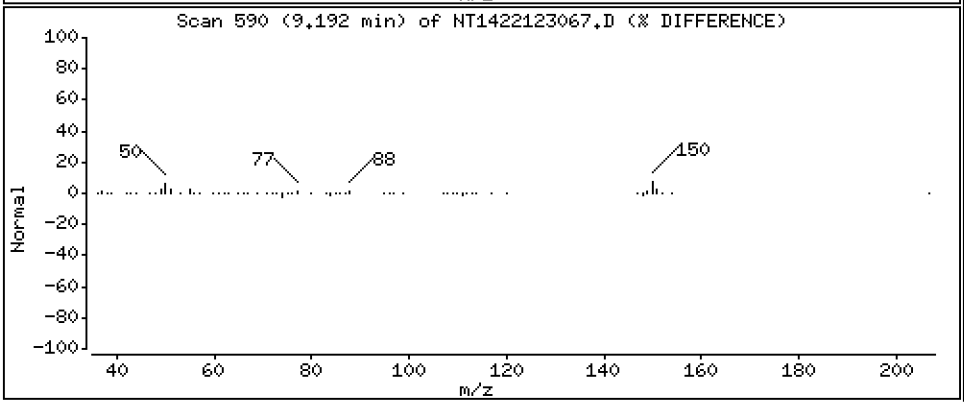
9 1,4-Dichlorobenzene

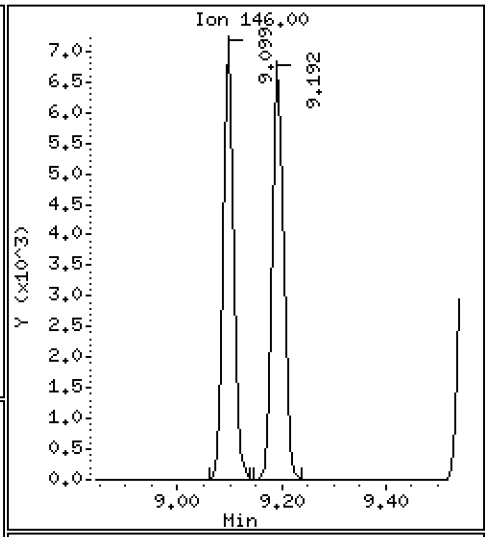
Concentration: 0.2502 ug/mL

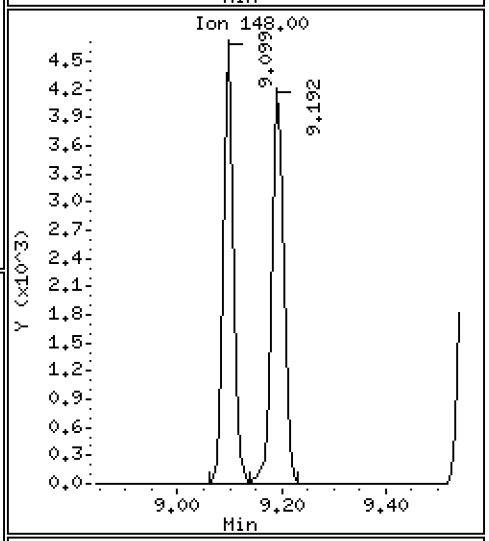


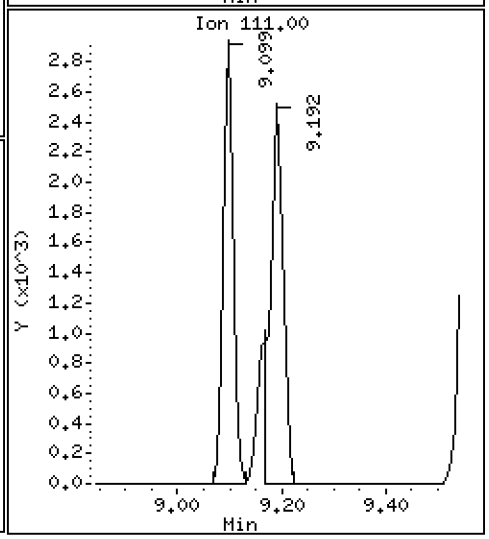












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

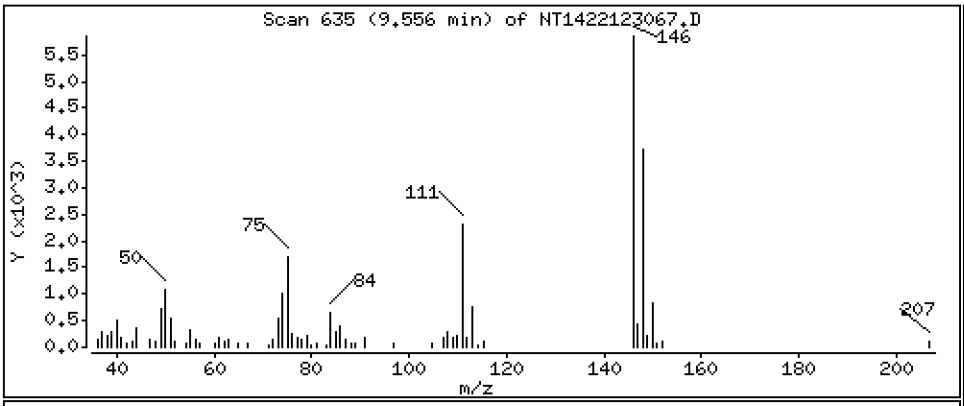
Operator: VTS

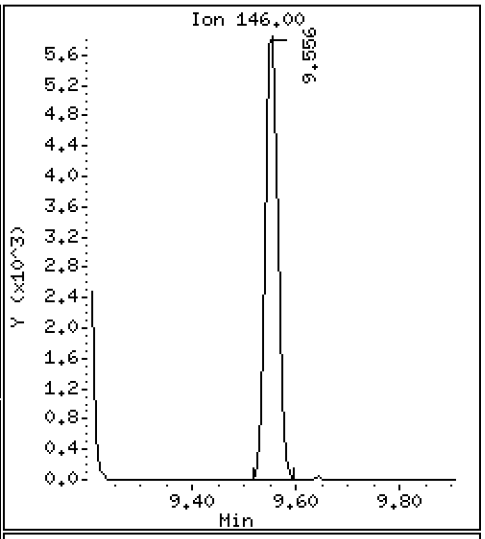
Column phase: ZB-5msi

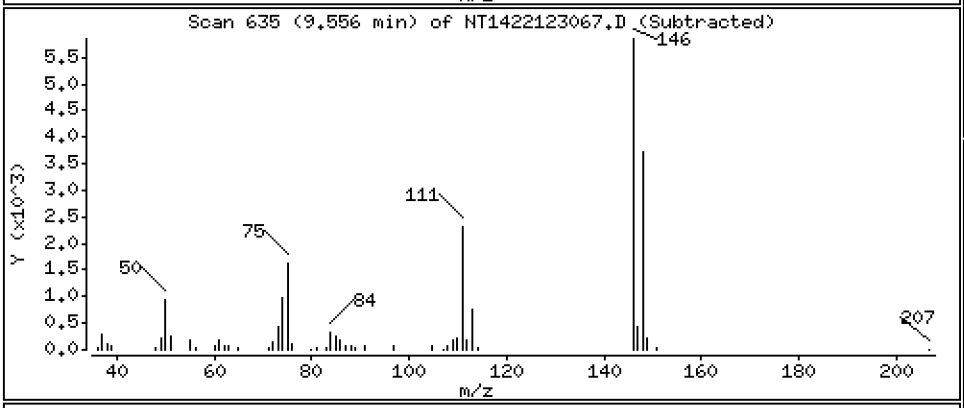
Column diameter: 0.25

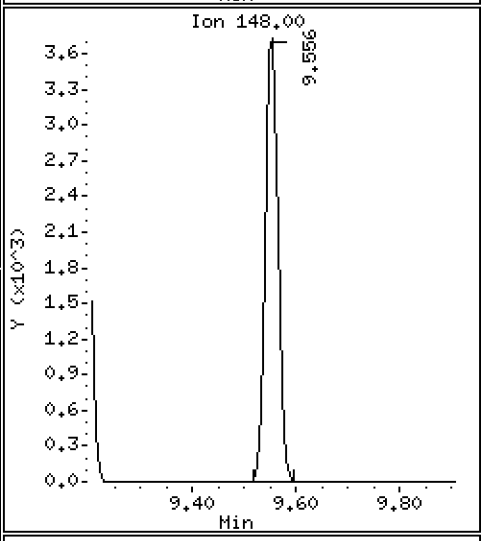
12 1,2-Dichlorobenzene

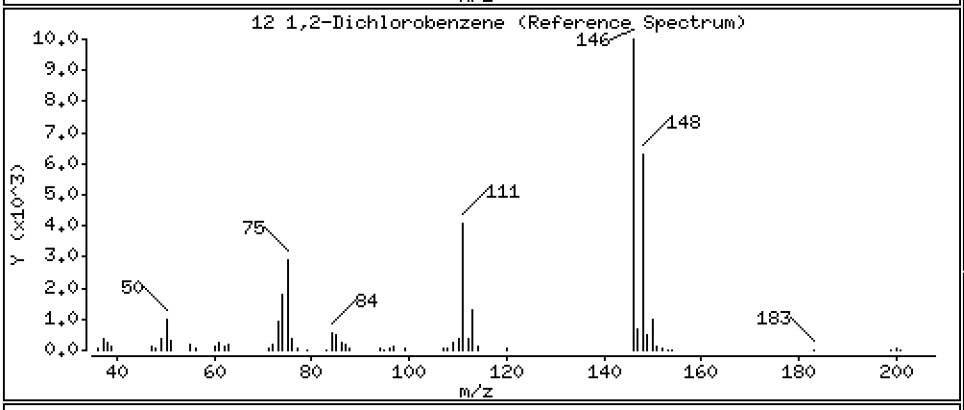
Concentration: 0.2420 ug/mL

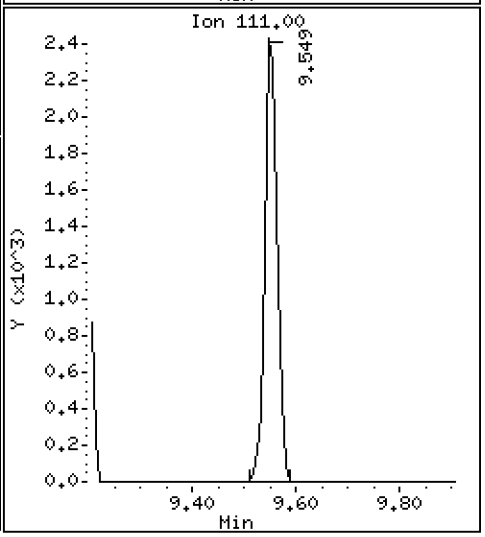


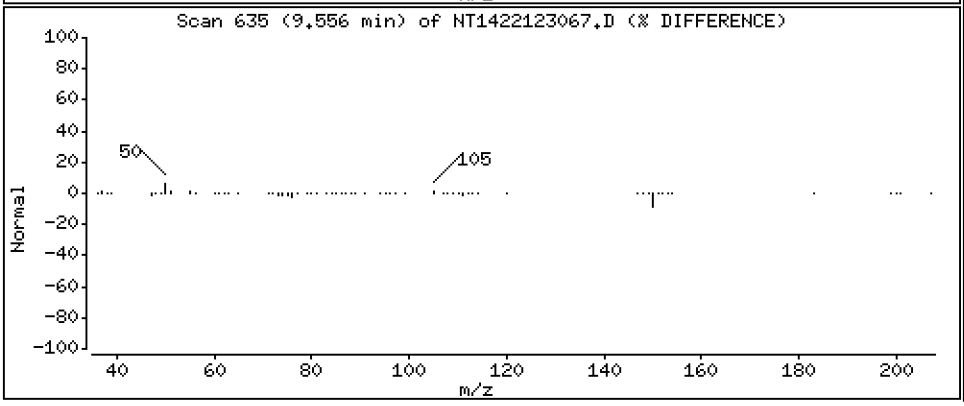












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

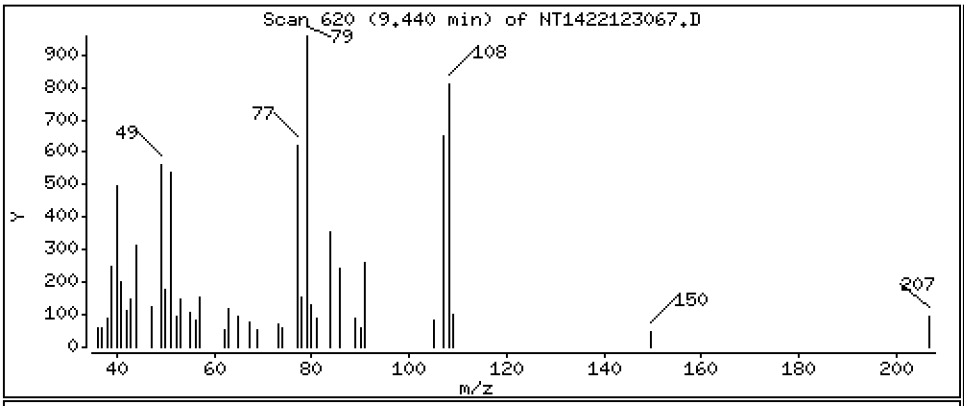
Operator: VTS

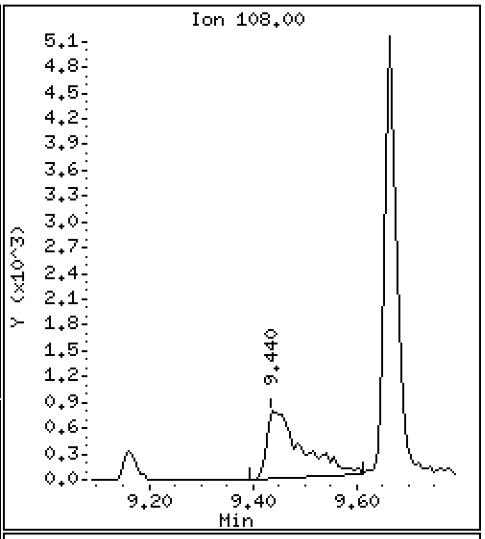
Column phase: ZB-5msi

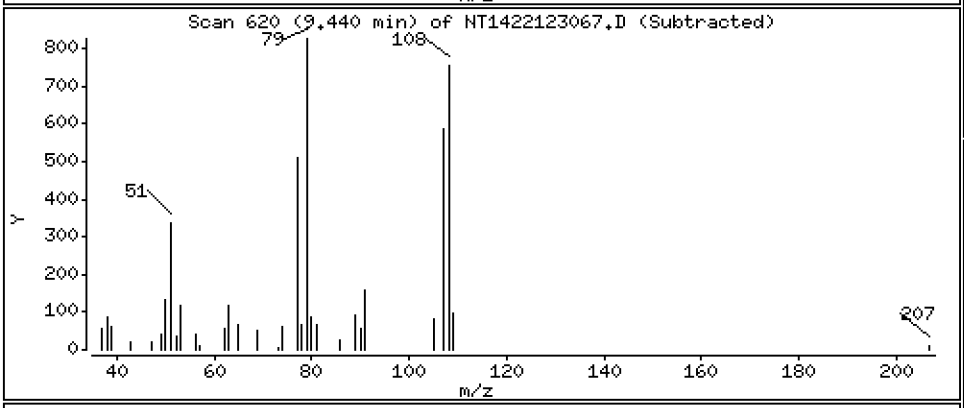
Column diameter: 0.25

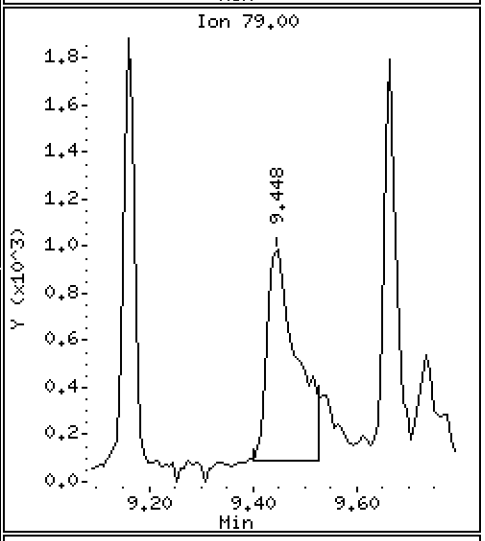
11 Benzyl alcohol

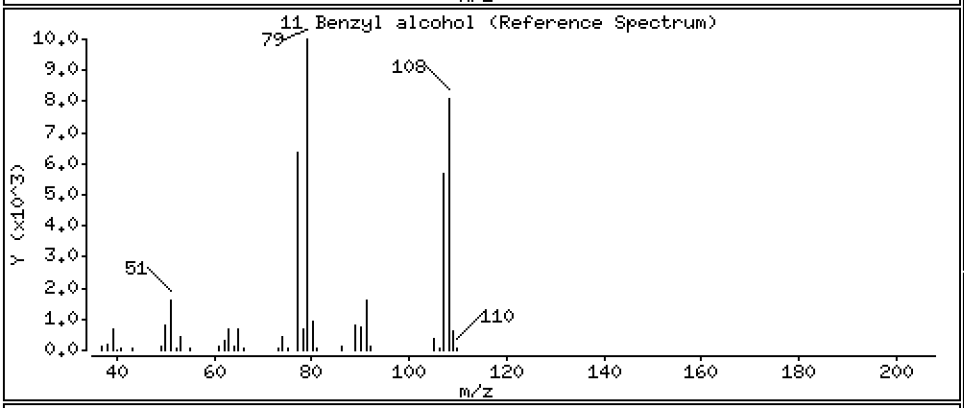
Concentration: 0.1653 ug/mL

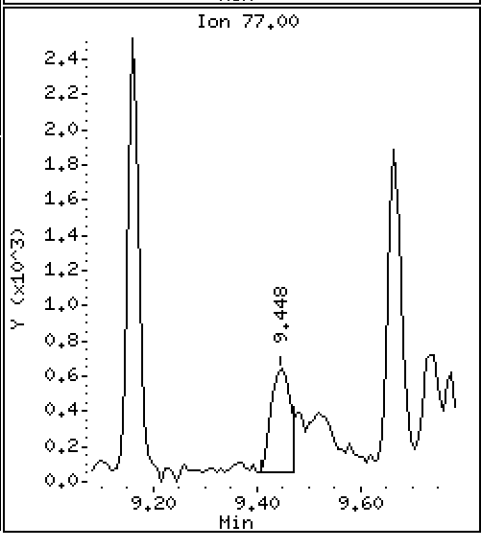


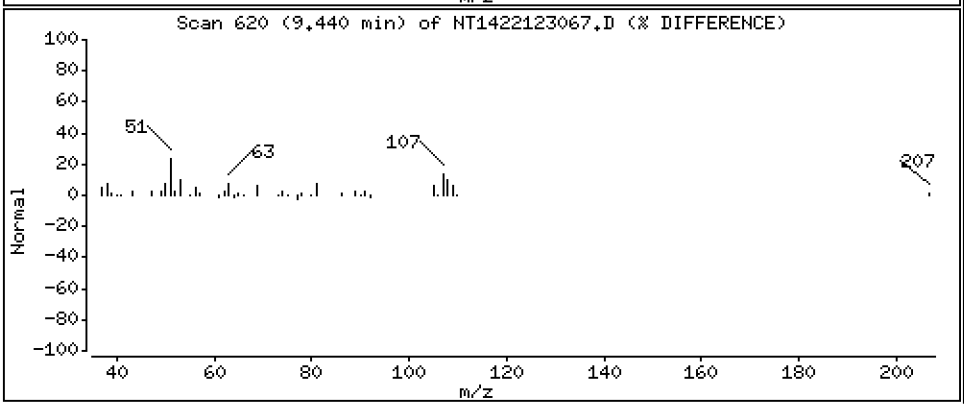












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

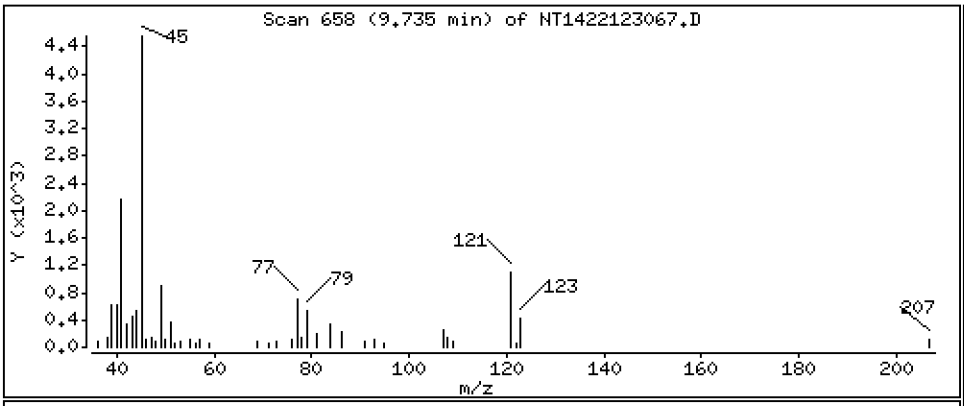
Operator: VTS

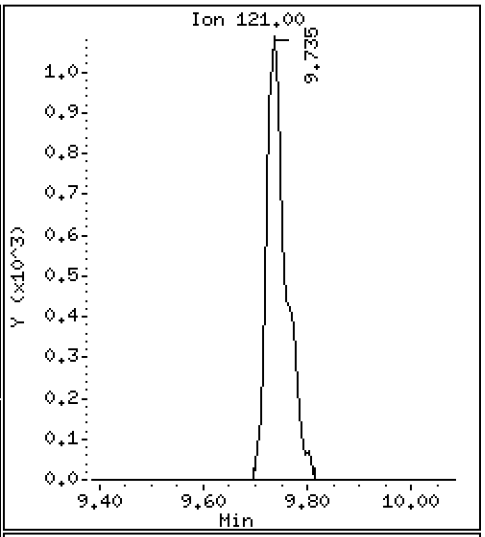
Column phase: ZB-5msi

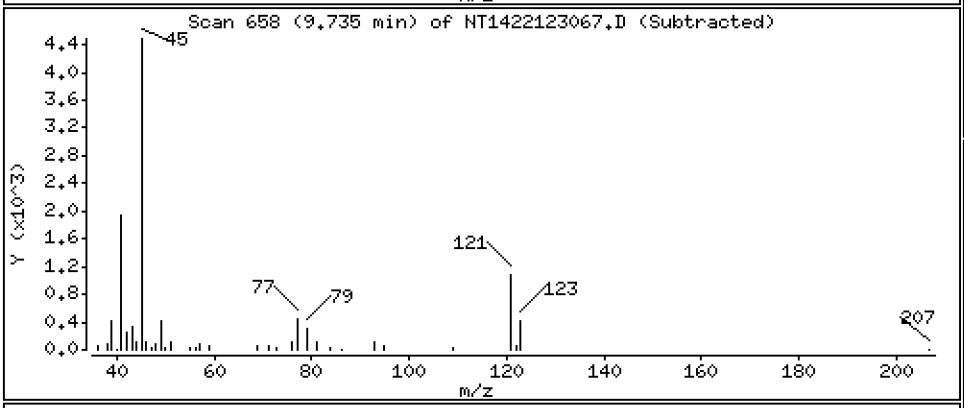
Column diameter: 0.25

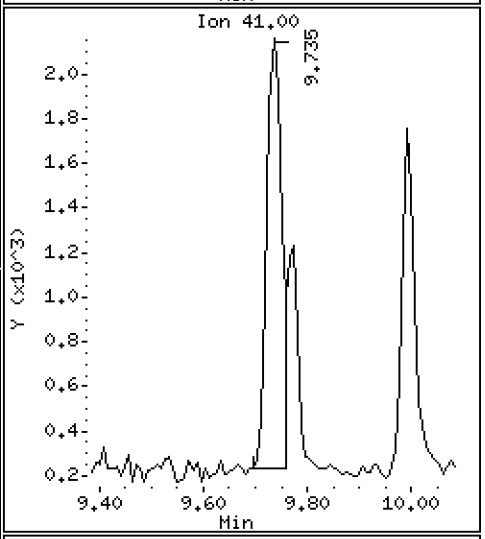
14 2,2'-oxybis(1-Chloropropane)

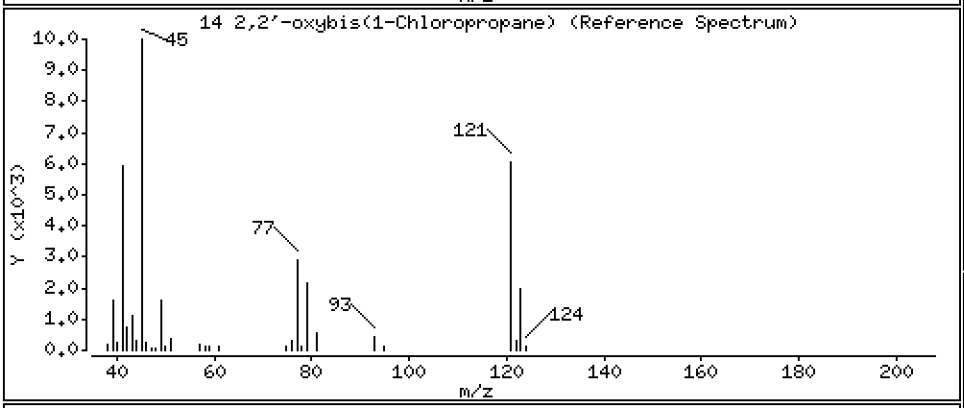
Concentration: 0.2430 ug/mL

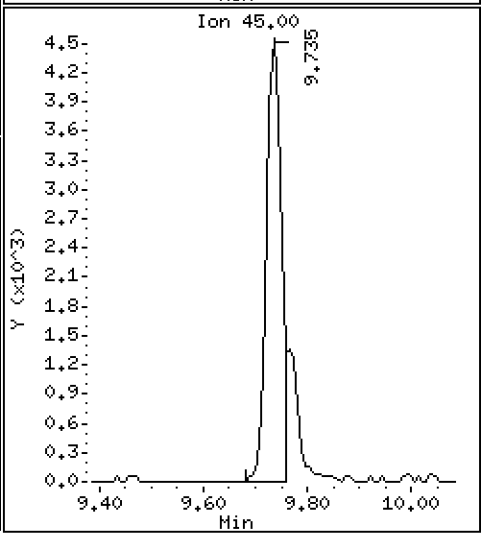


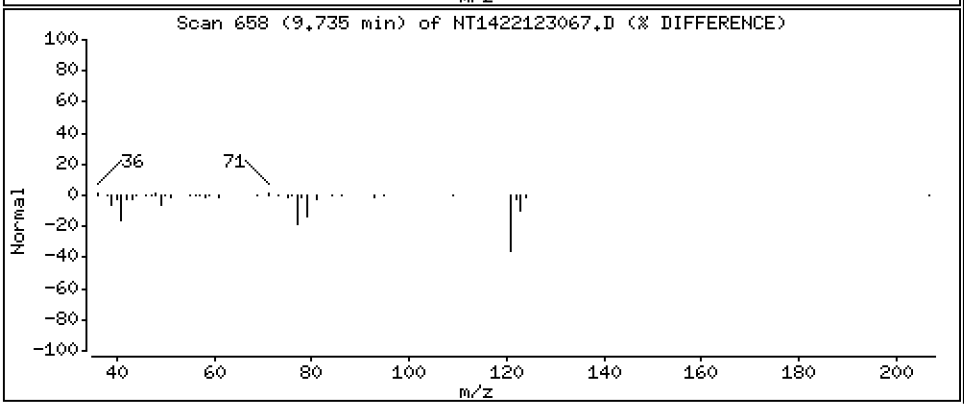












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

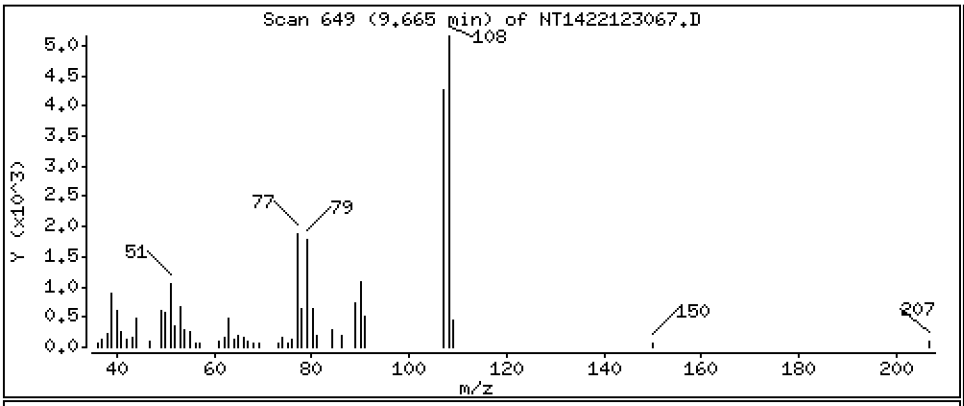
Operator: VTS

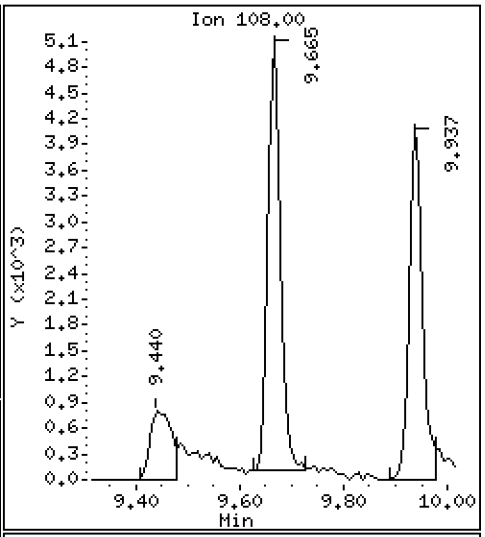
Column phase: ZB-5msi

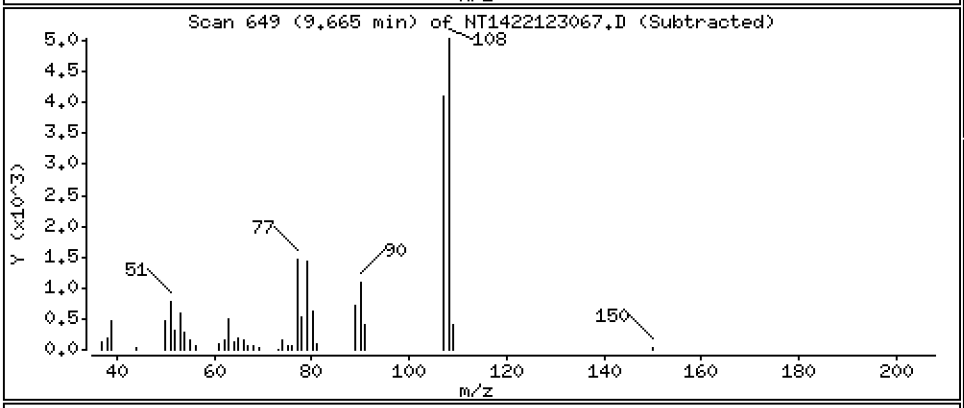
Column diameter: 0.25

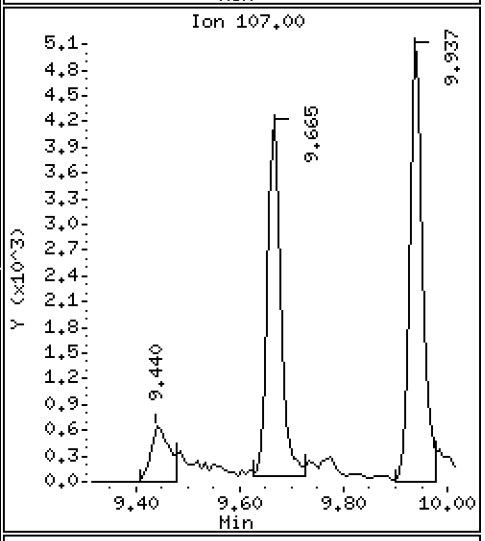
13 2-Methylphenol

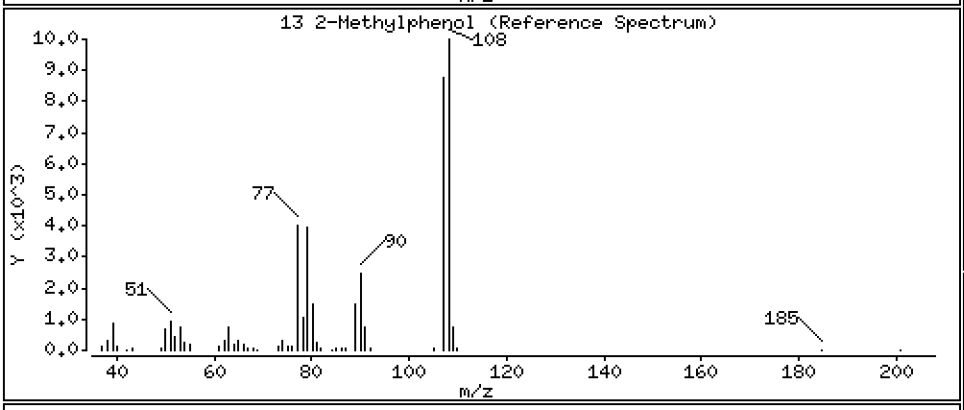
Concentration: 0.2207 ug/mL

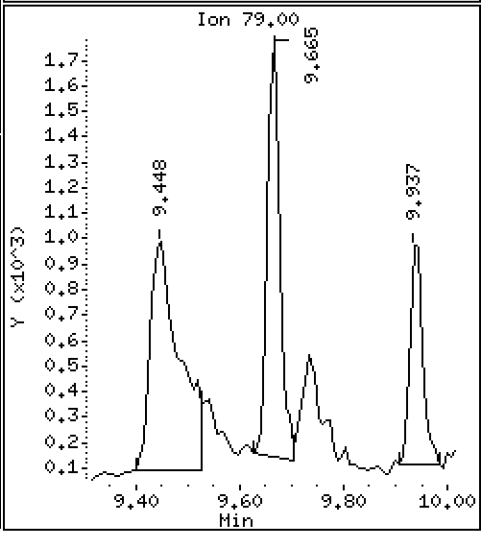


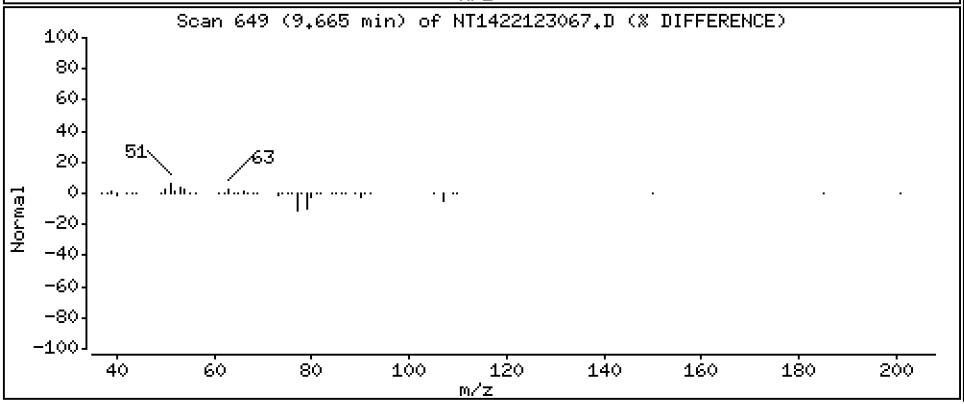












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

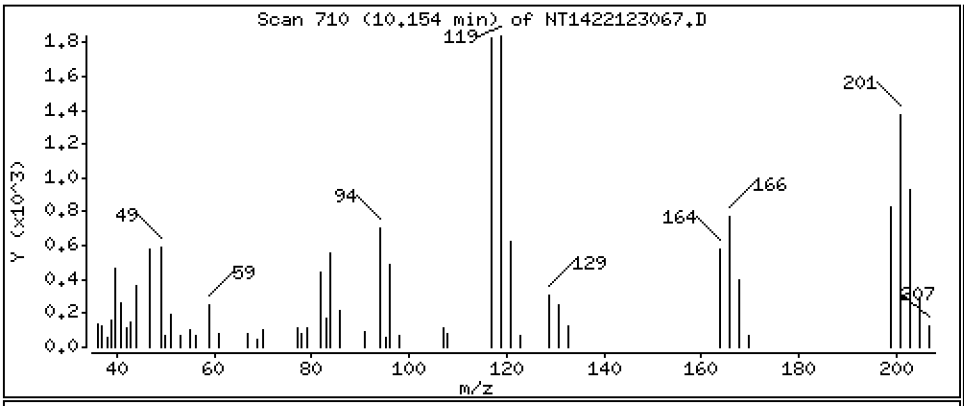
Operator: VTS

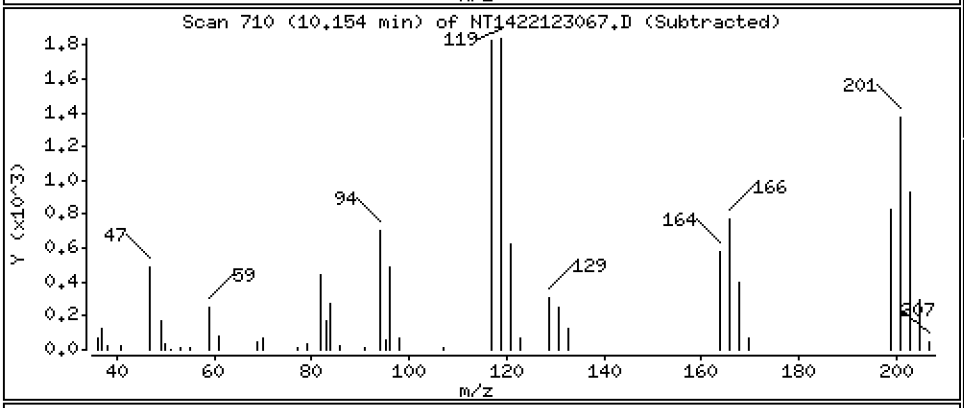
Column phase: ZB-5msi

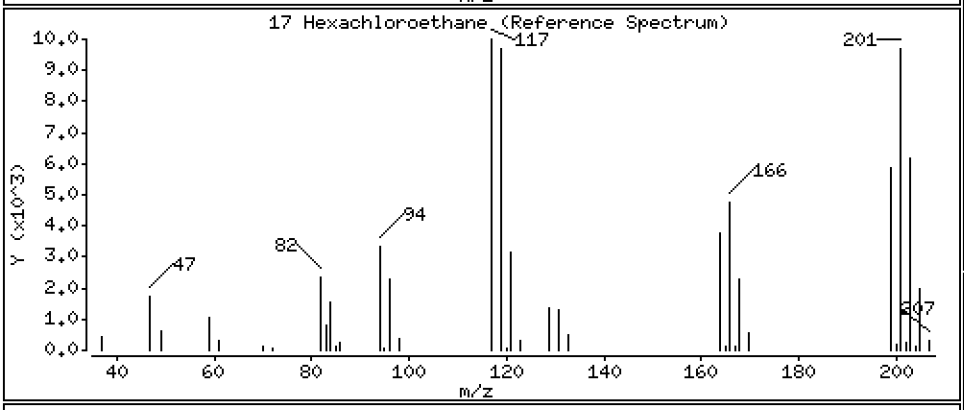
Column diameter: 0.25

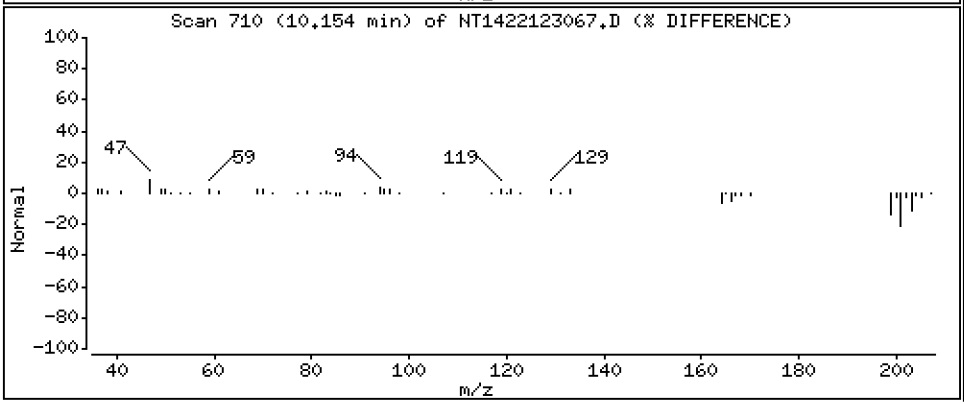
17 Hexachloroethane

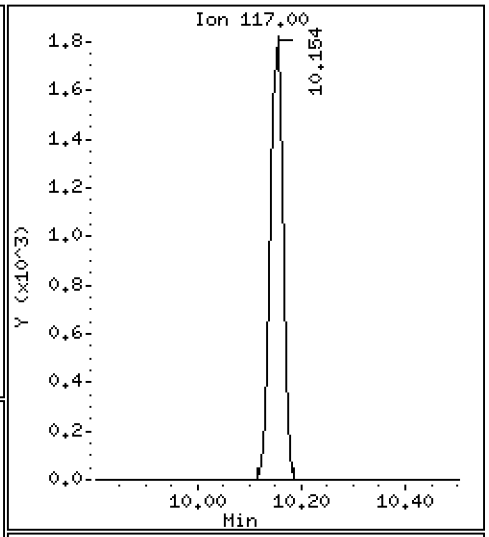
Concentration: 0.1979 ug/mL

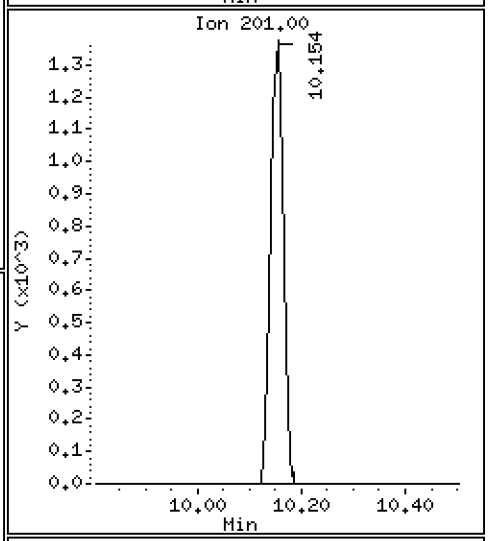


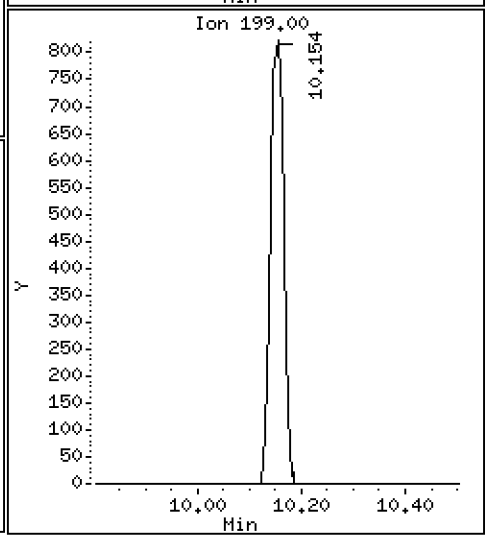












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

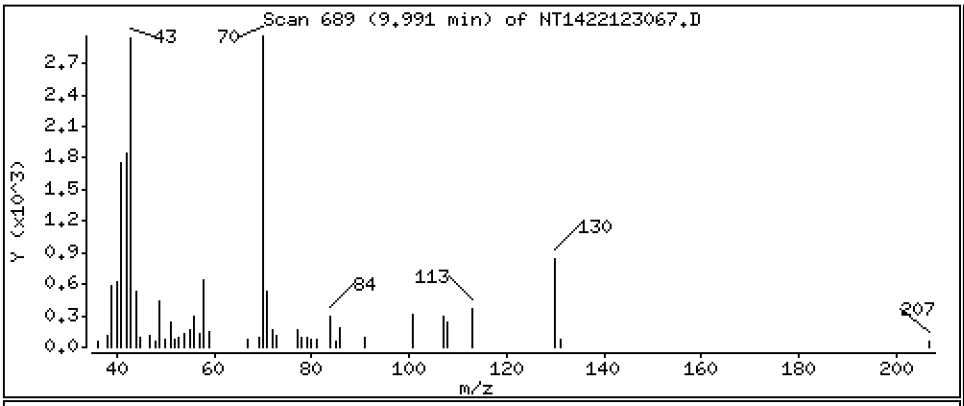
Operator: VTS

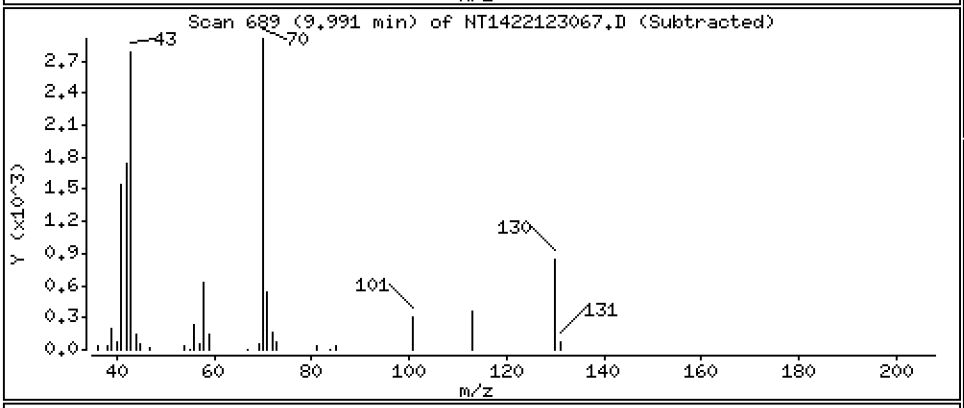
Column phase: ZB-5msi

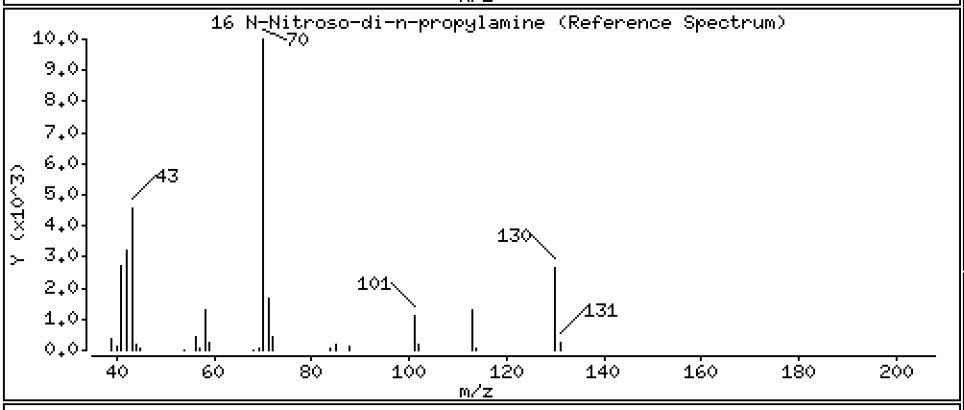
Column diameter: 0.25

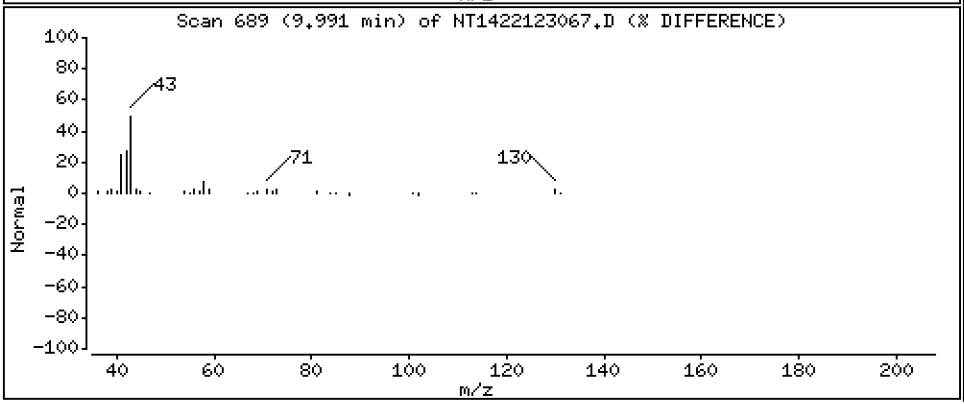
16 N-Nitroso-di-n-propylamine

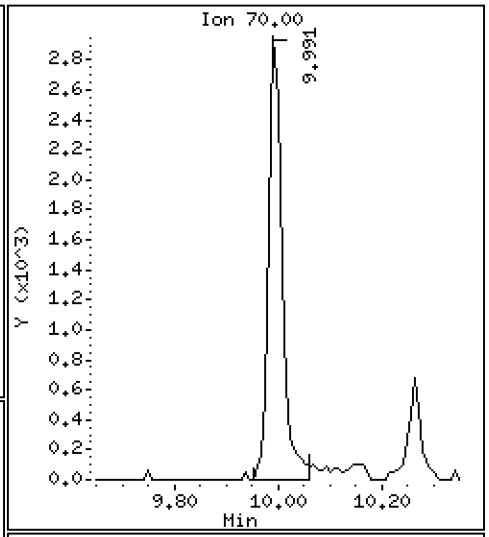
Concentration: 0.2352 ug/mL

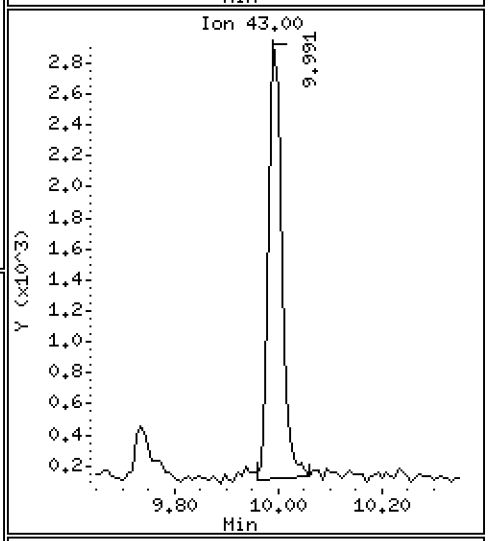


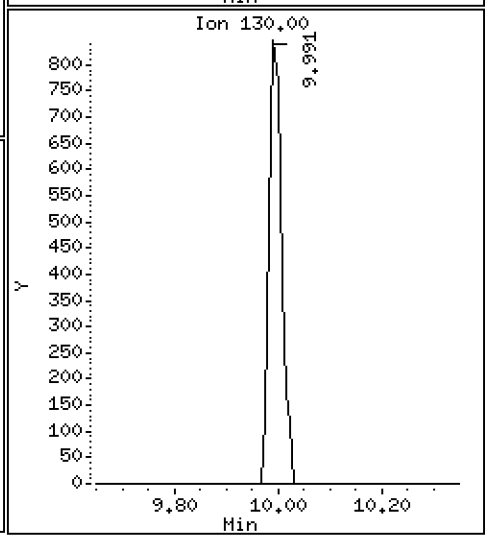












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

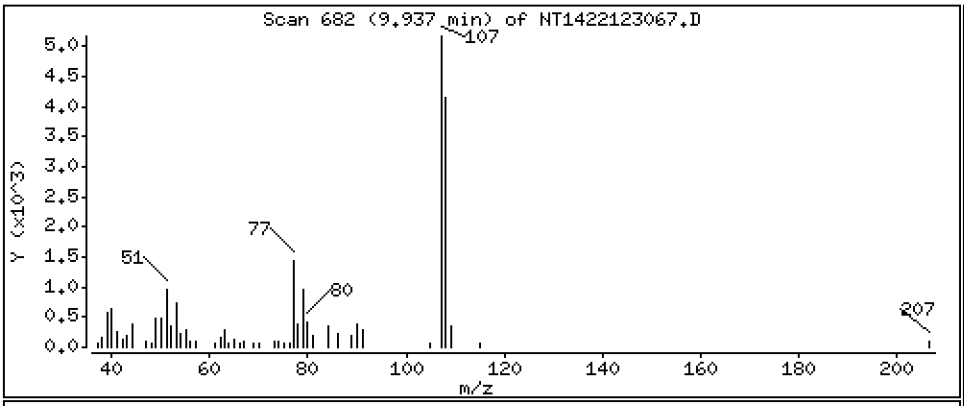
Operator: VTS

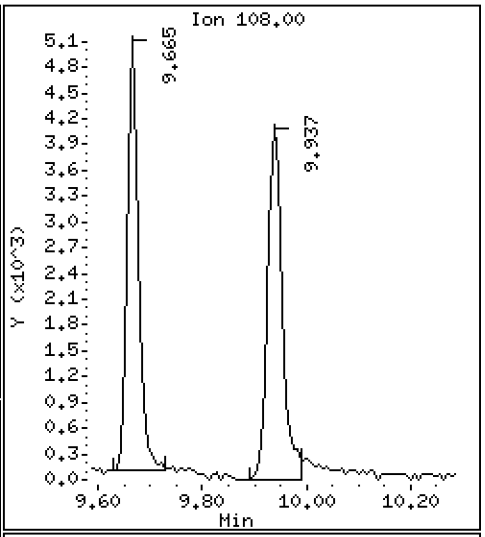
Column phase: ZB-5msi

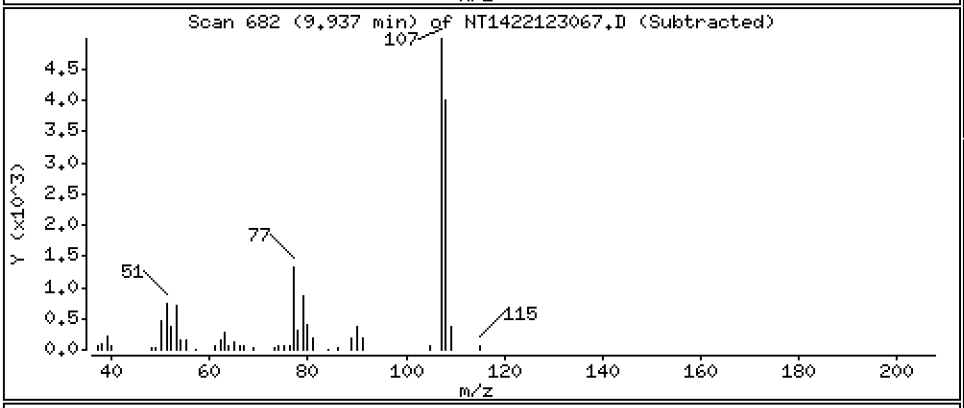
Column diameter: 0.25

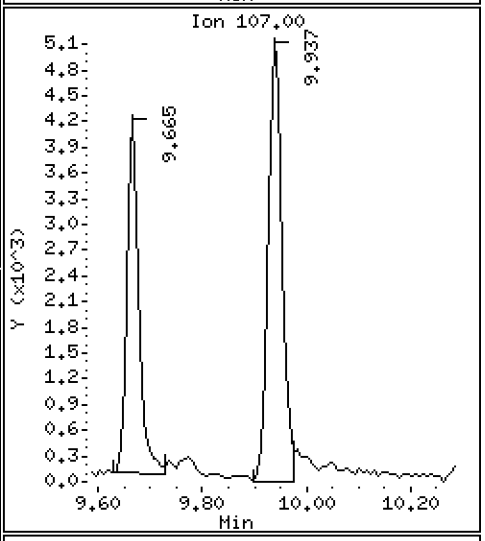
15 4-Methylphenol

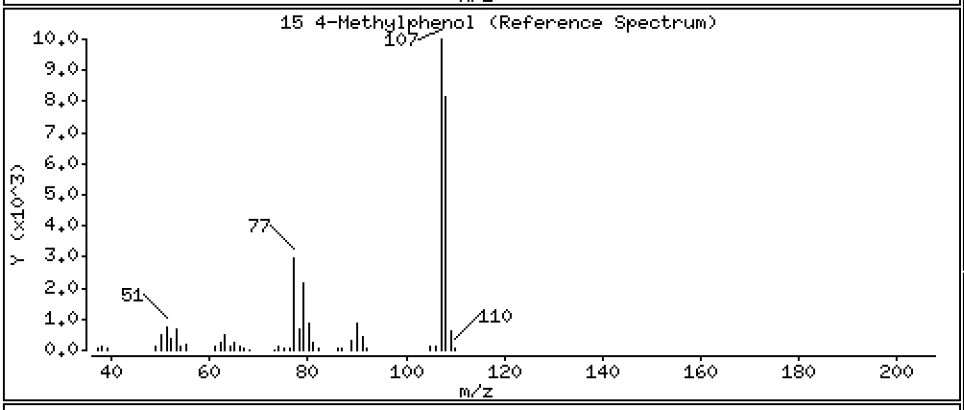
Concentration: 0.2079 ug/mL

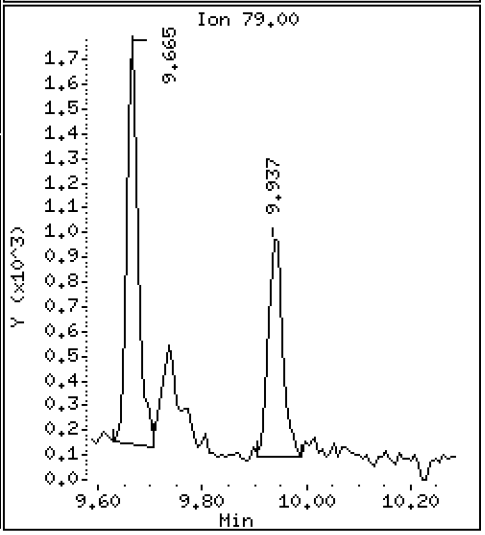


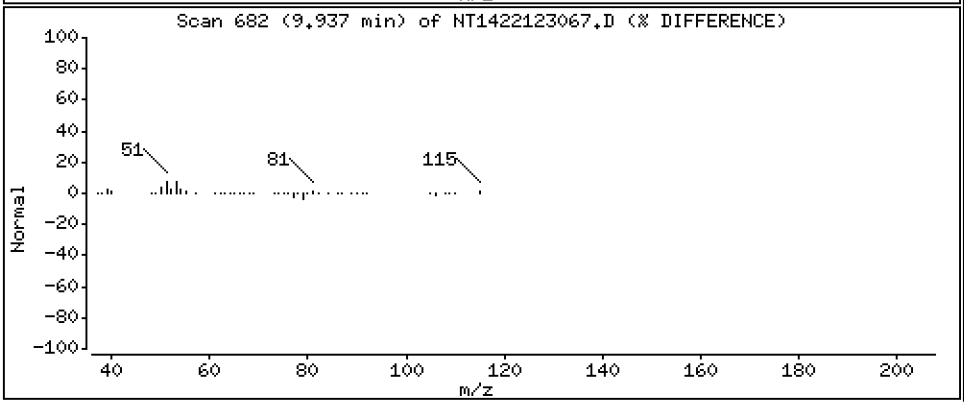












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

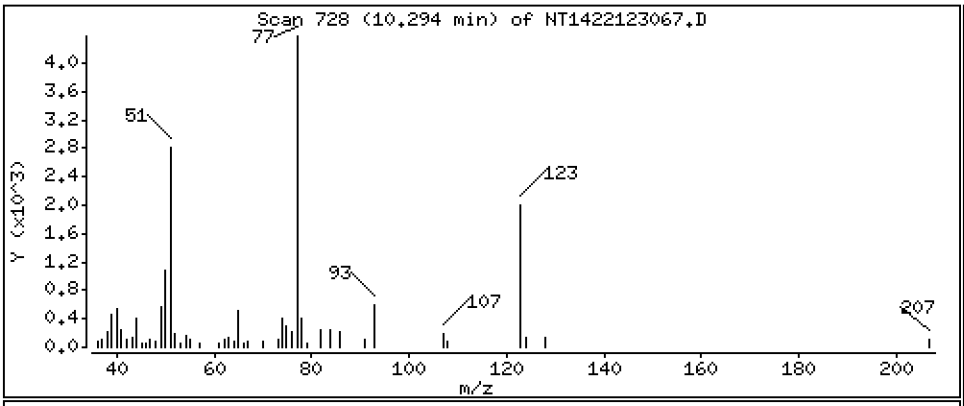
Operator: VTS

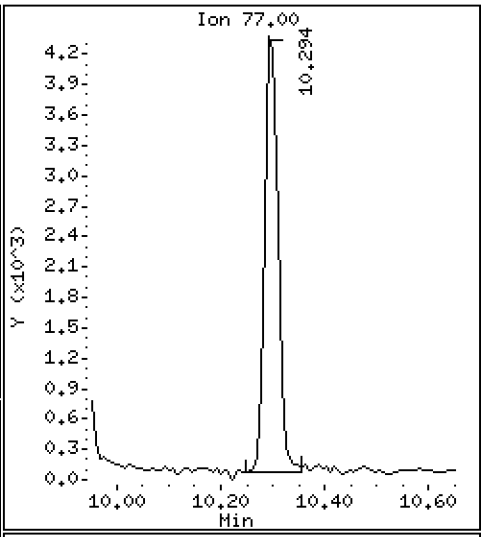
Column phase: ZB-5msi

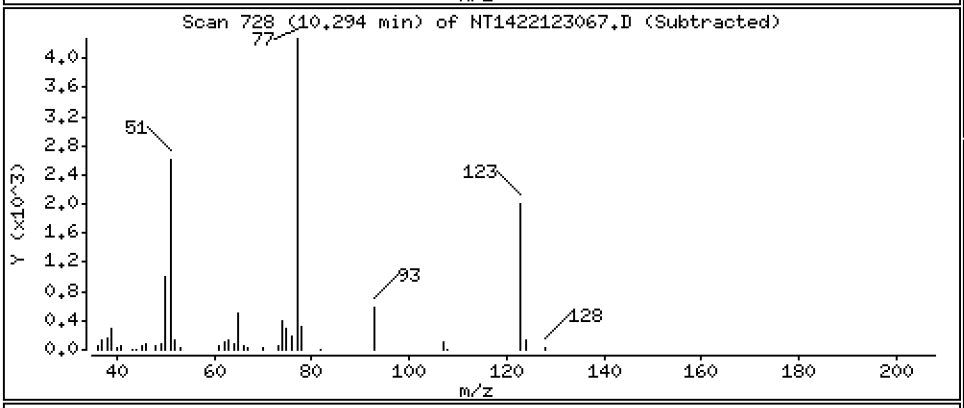
Column diameter: 0.25

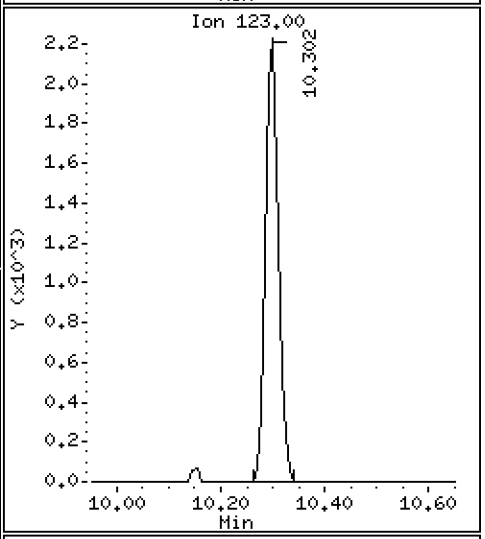
19 Nitrobenzene

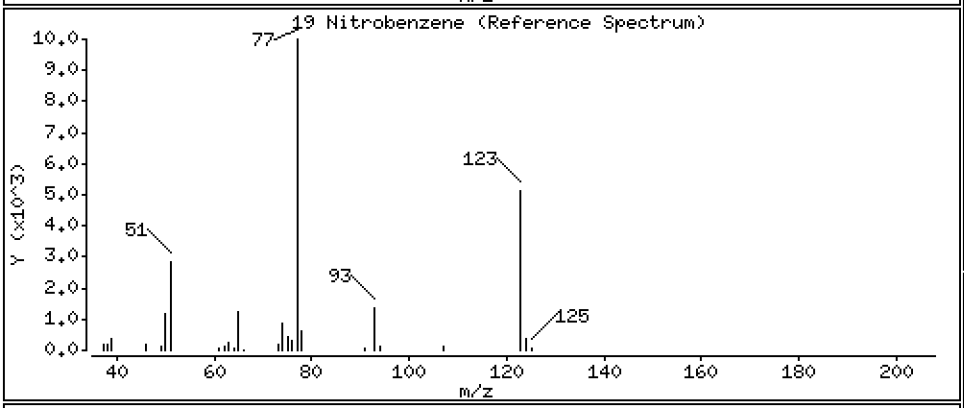
Concentration: 0.2230 ug/mL

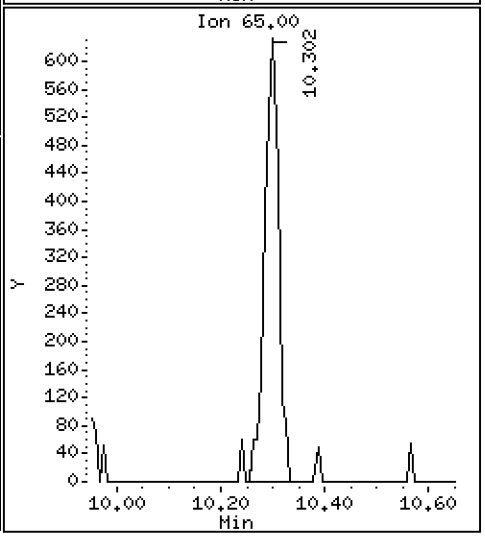


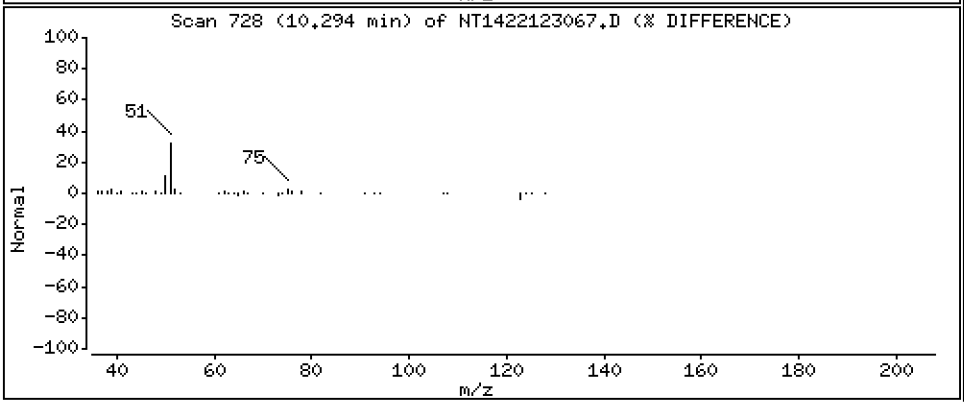












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

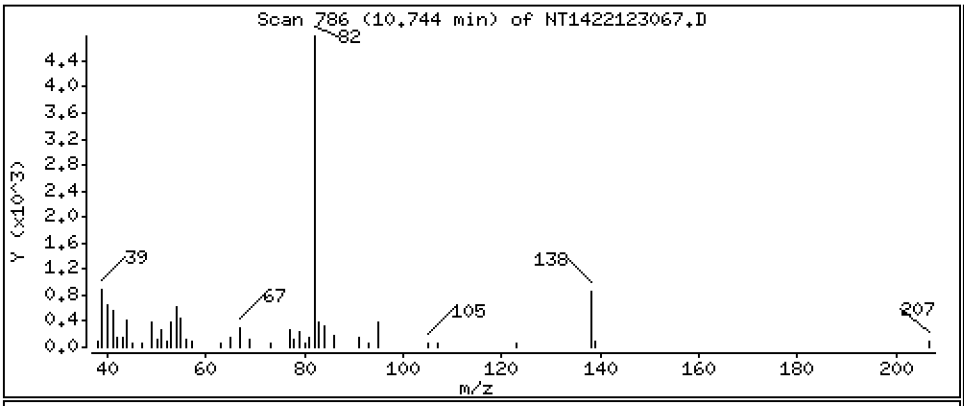
Operator: VTS

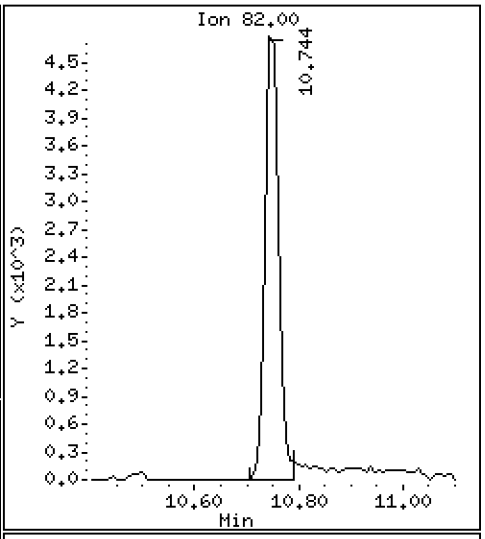
Column phase: ZB-5msi

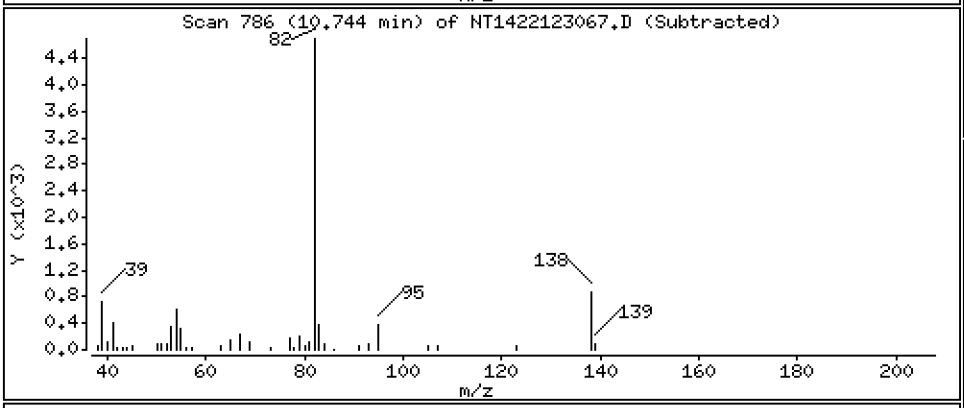
Column diameter: 0.25

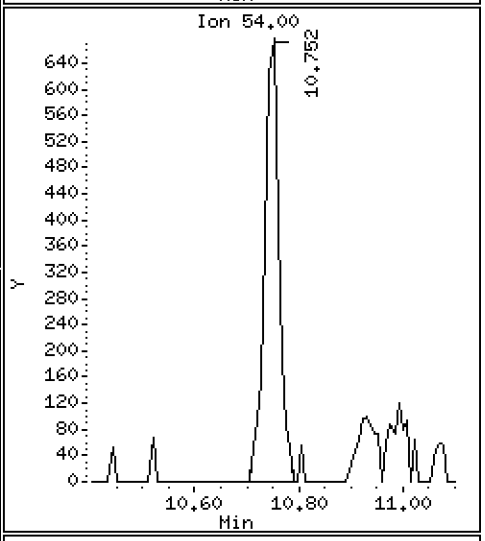
20 Isophorone

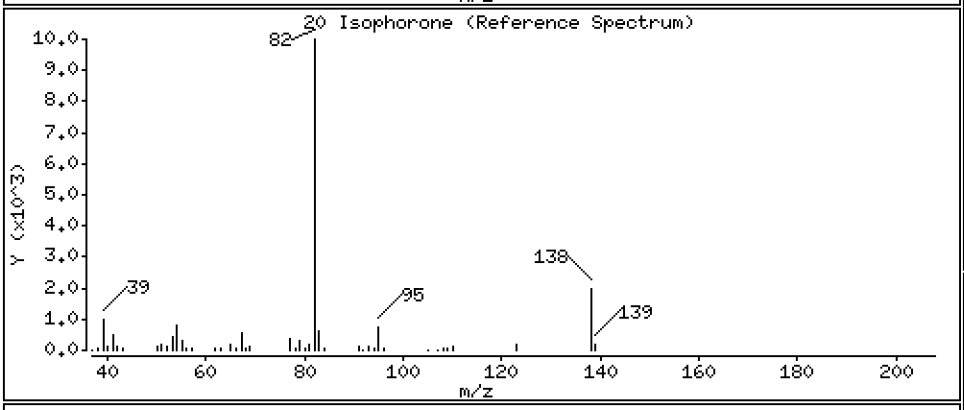
Concentration: 0.1972 ug/mL

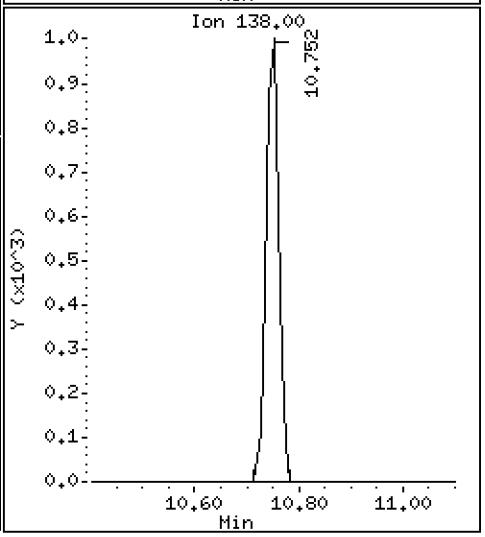


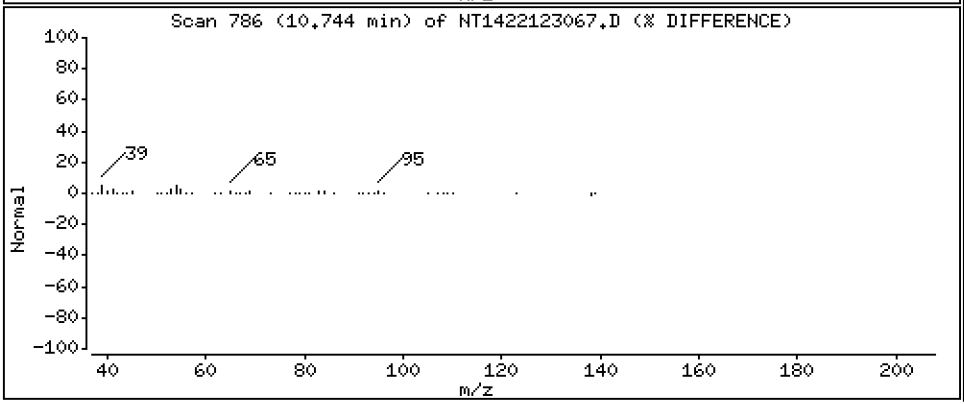












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

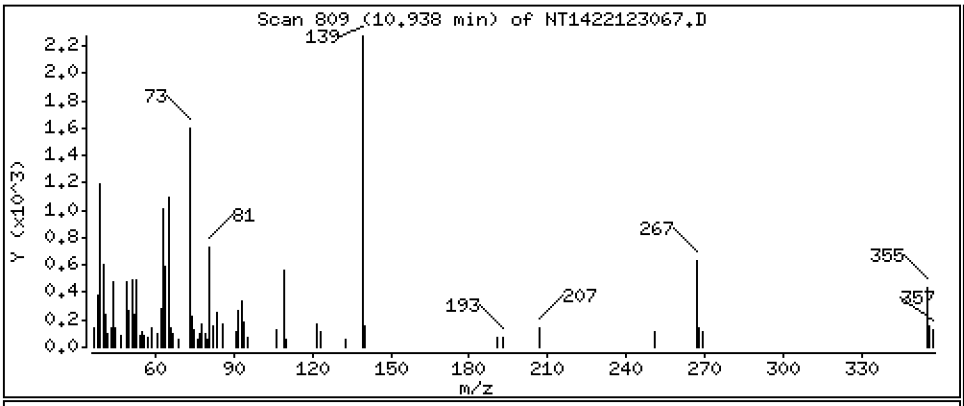
Operator: VTS

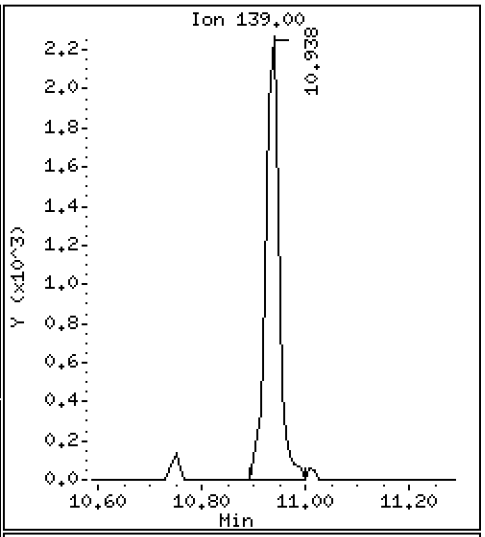
Column phase: ZB-5msi

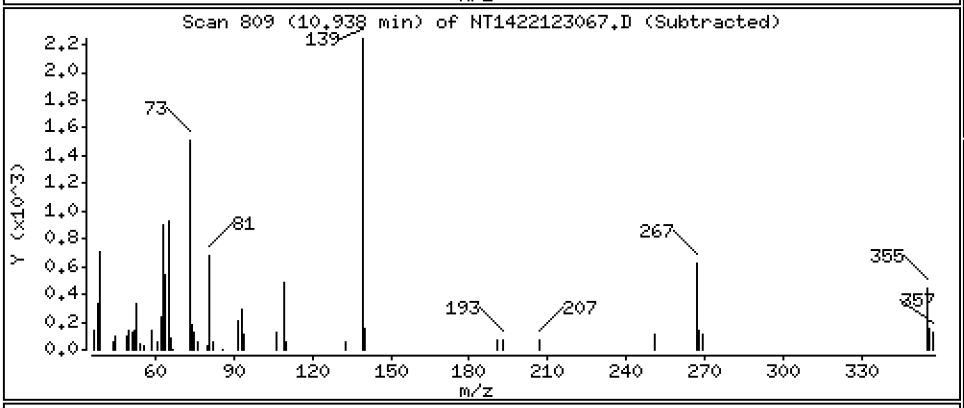
Column diameter: 0.25

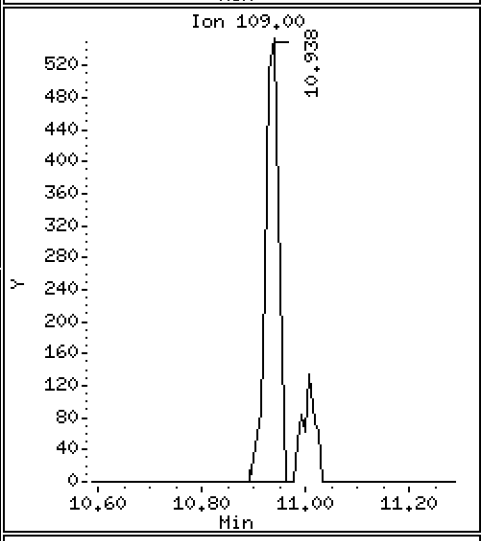
21 2-Nitrophenol

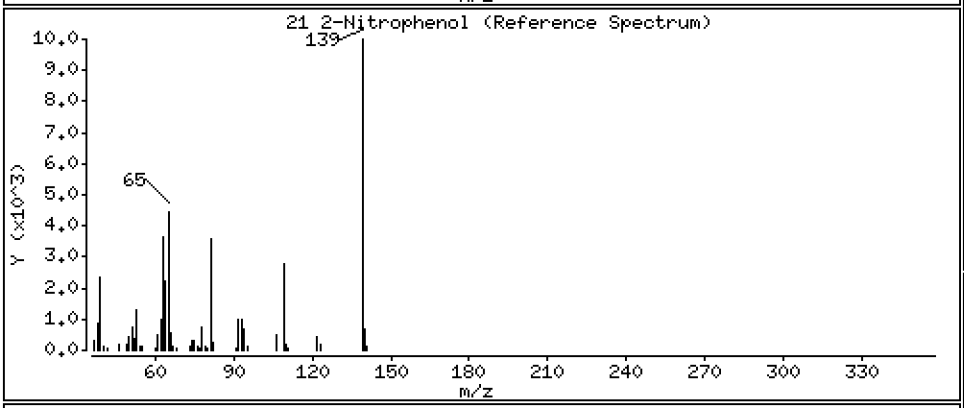
Concentration: 0.2116 ug/mL

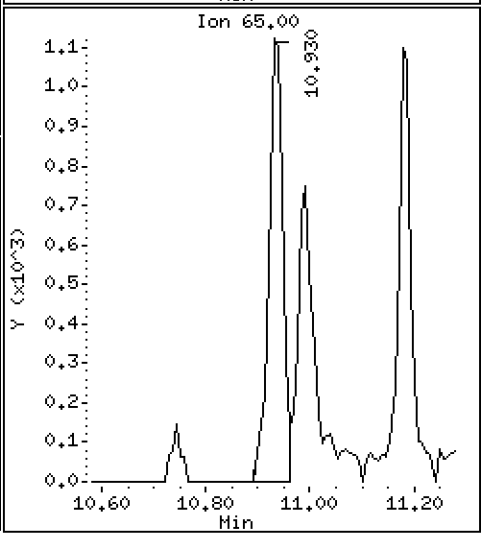


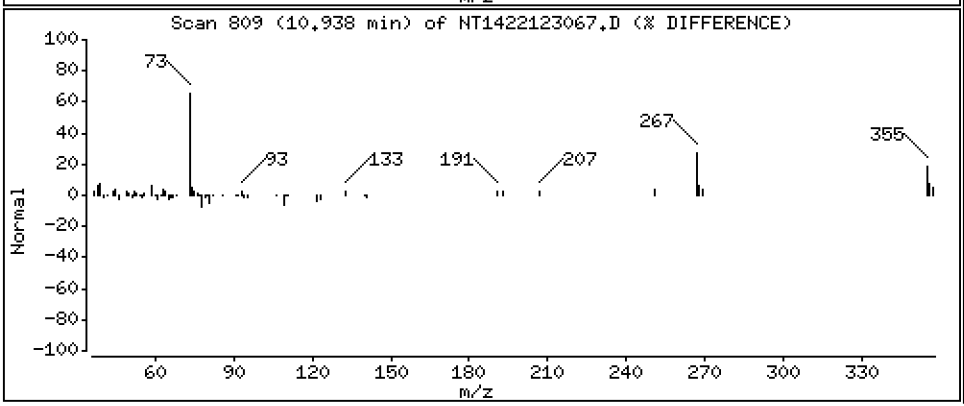












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

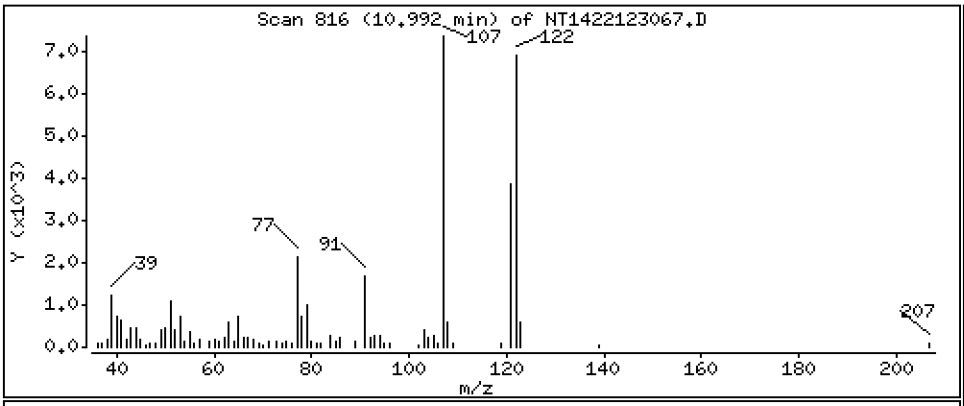
Operator: VTS

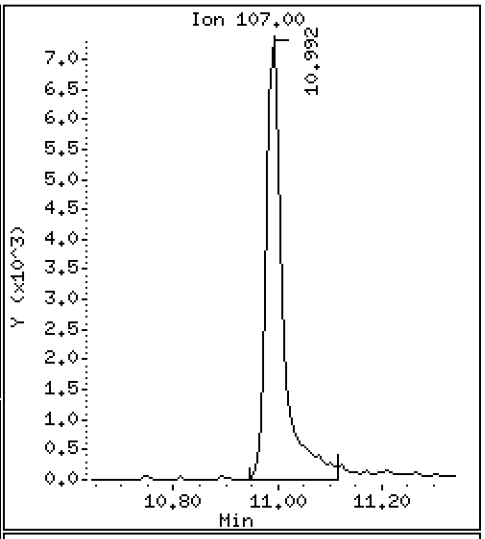
Column phase: ZB-5msi

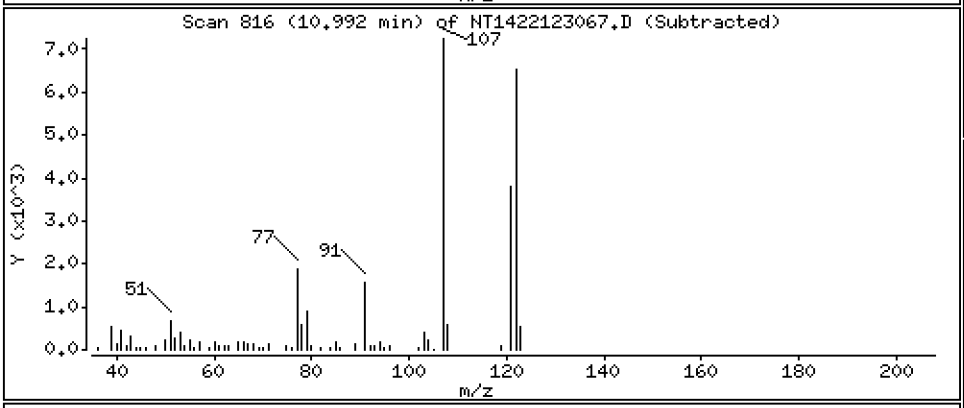
Column diameter: 0.25

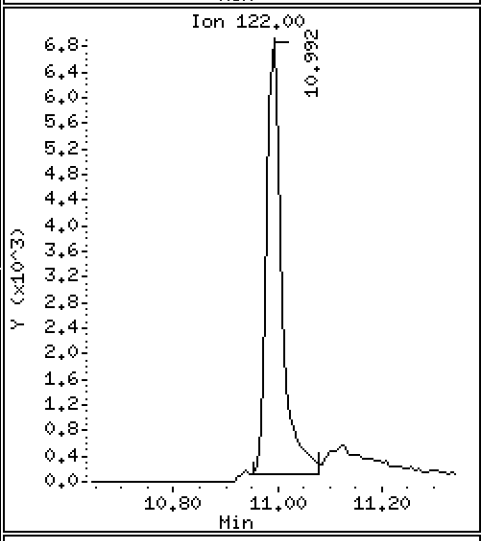
22 2,4-Dimethylphenol

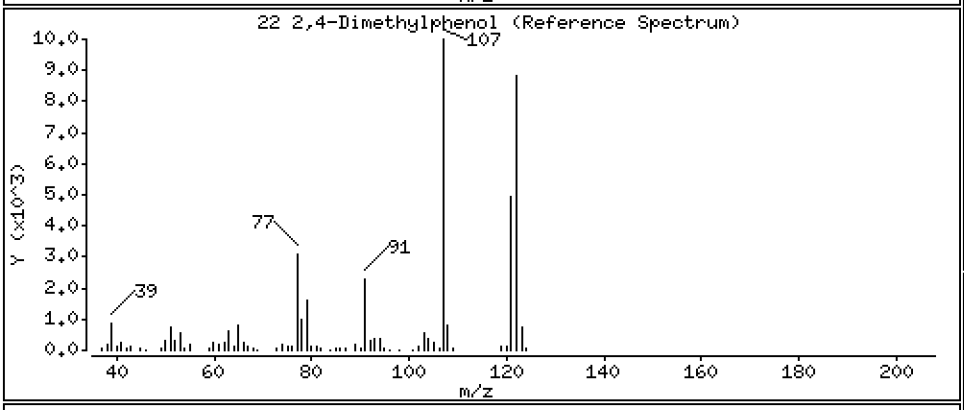
Concentration: 0.4590 ug/mL

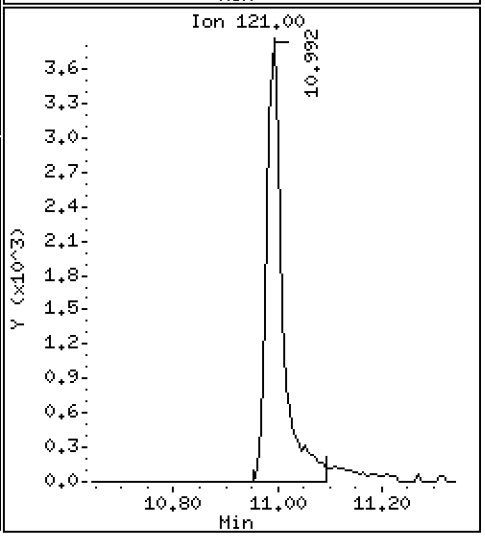


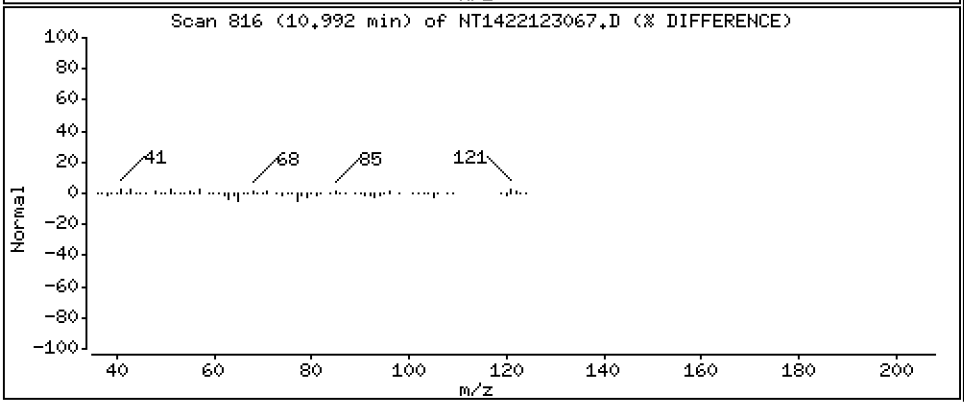












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

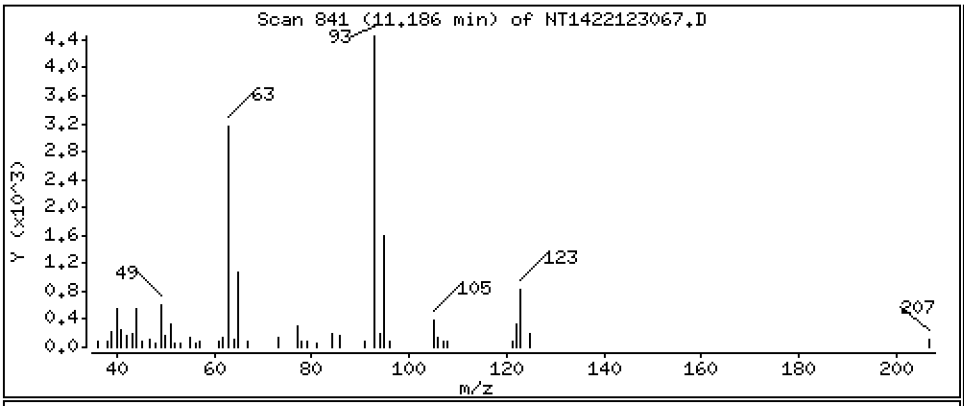
Operator: VTS

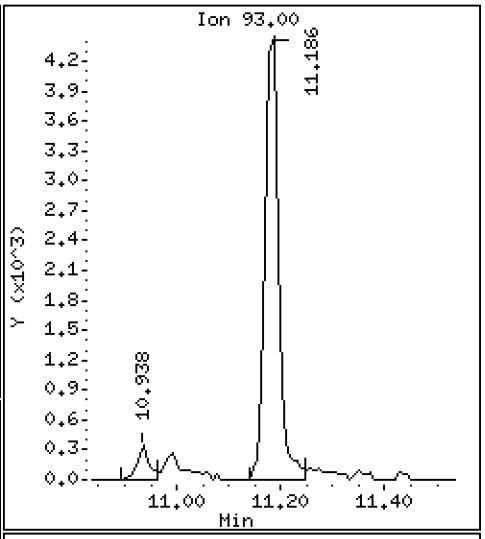
Column phase: ZB-5msi

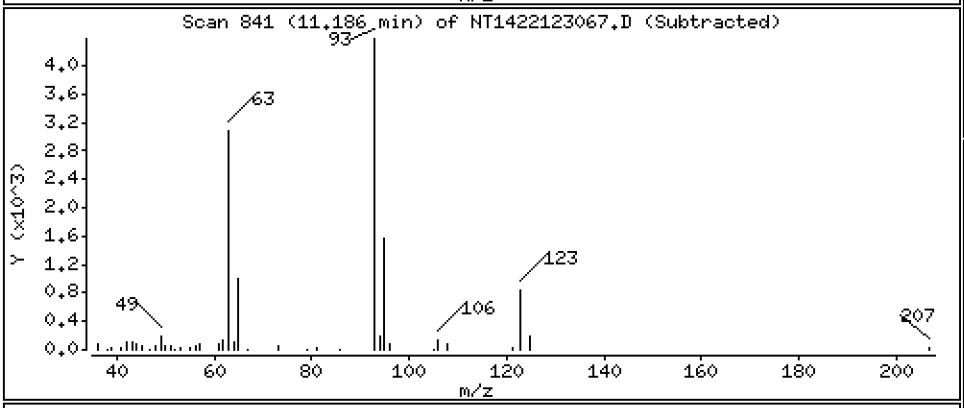
Column diameter: 0.25

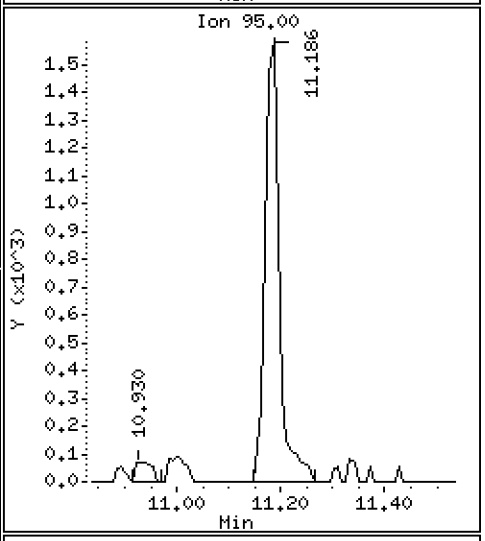
23 Bis(2-Chloroethoxy)methane

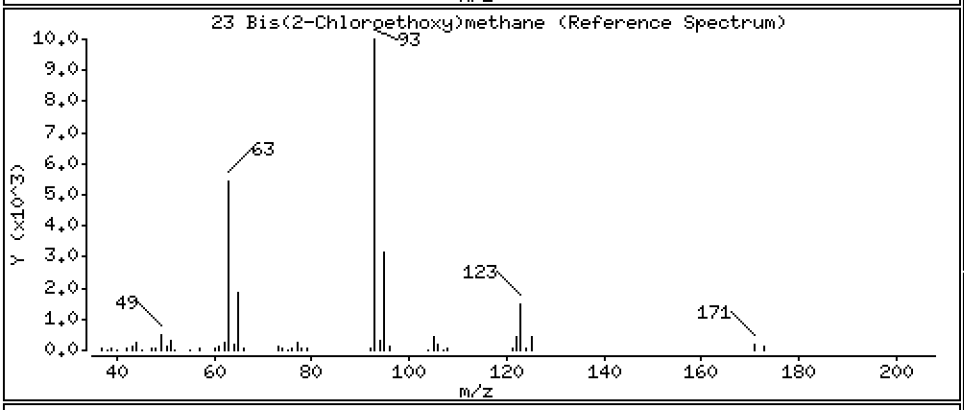
Concentration: 0.2359 ug/mL

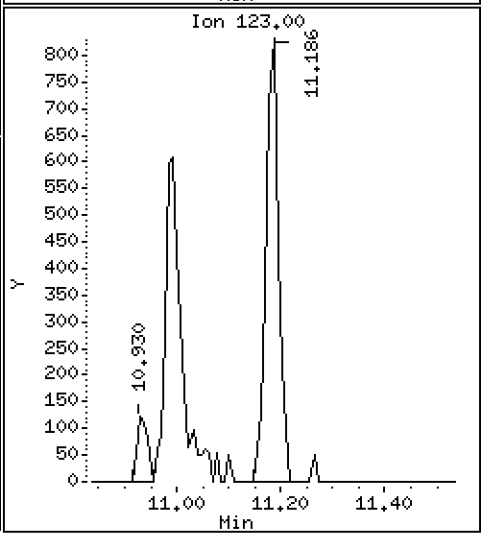


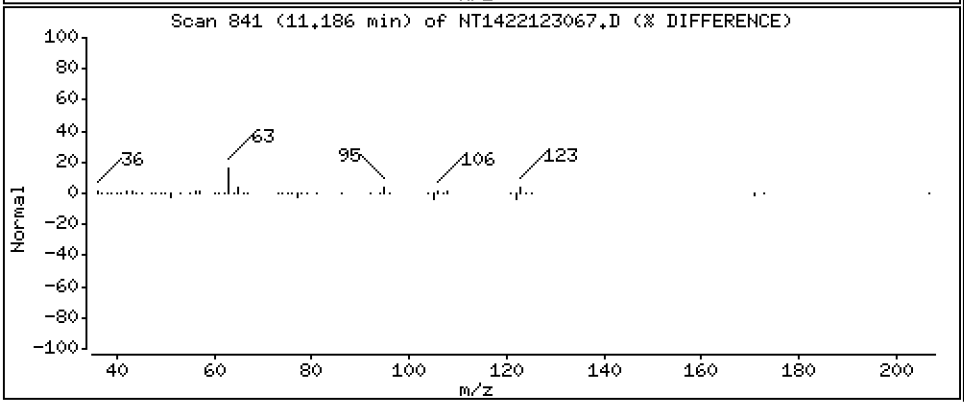












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

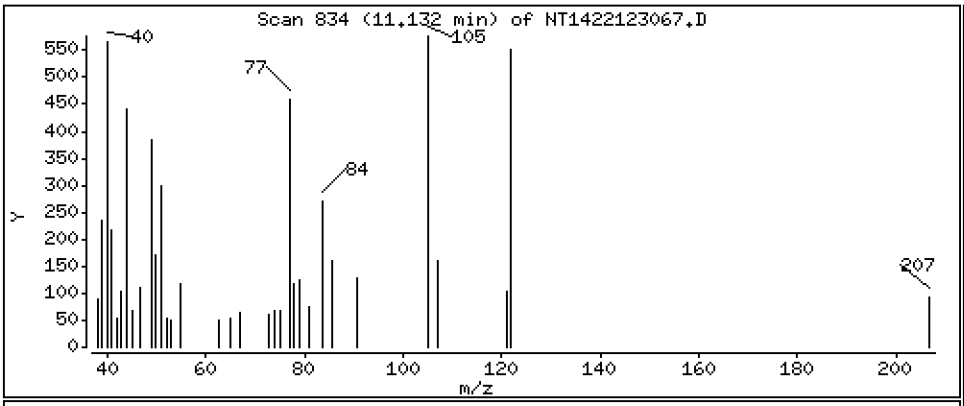
Operator: VTS

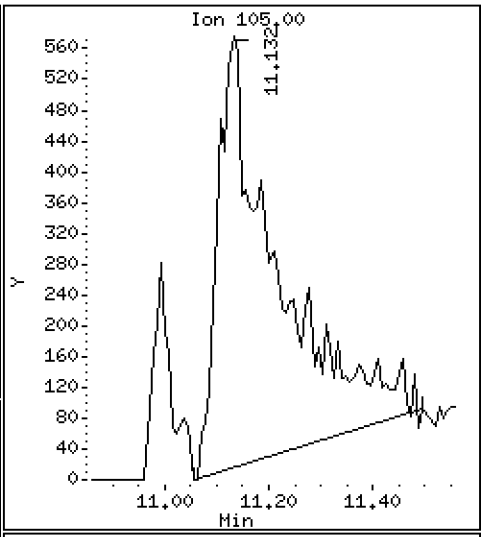
Column phase: ZB-5msi

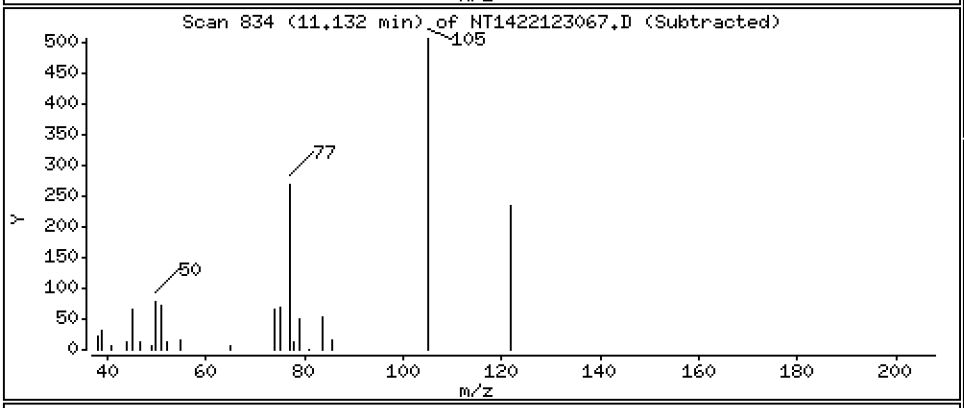
Column diameter: 0.25

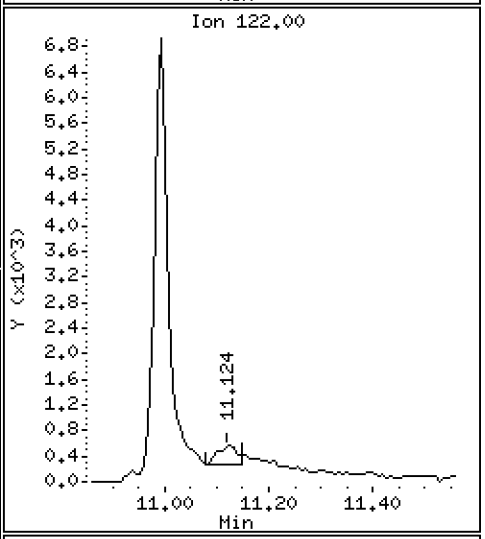
24 Benzoic acid

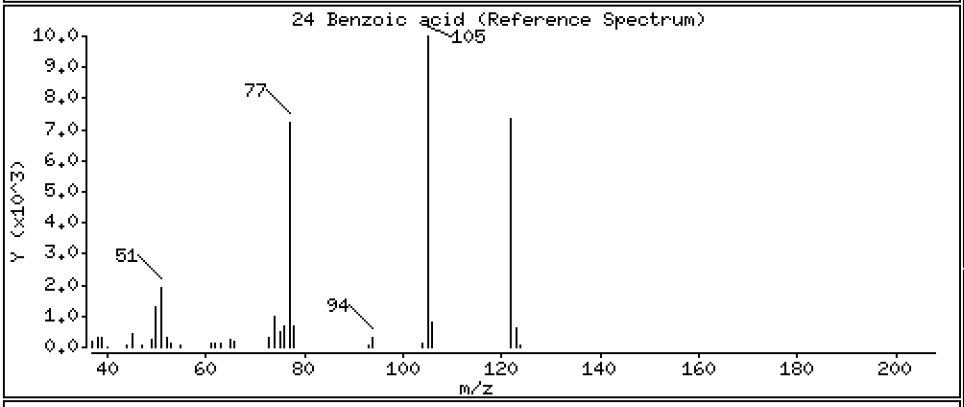
Concentration: 0.2097 ug/mL

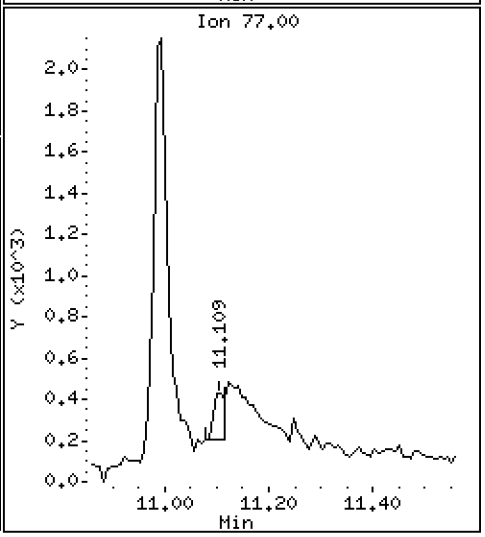


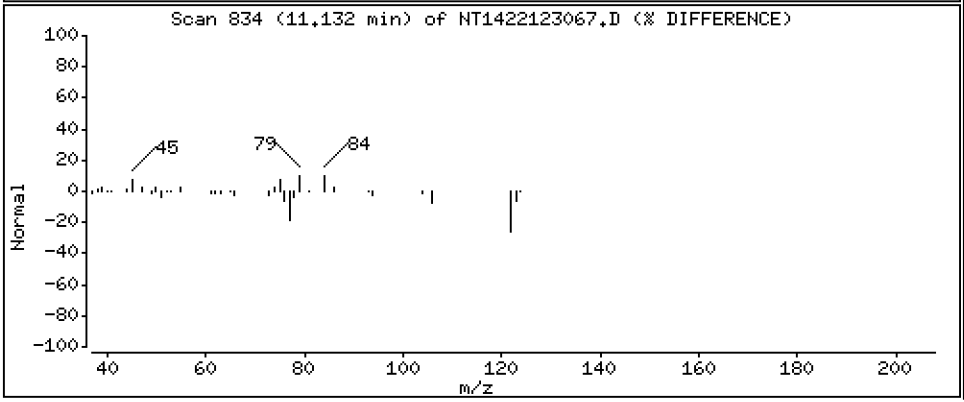












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

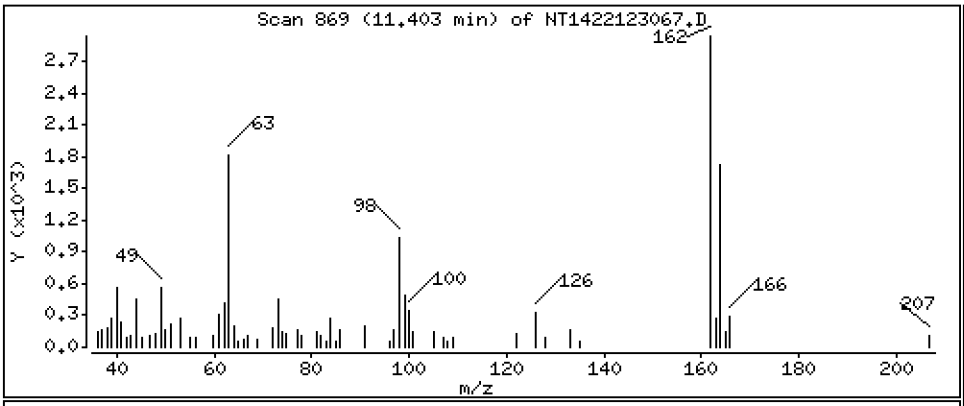
Operator: VTS

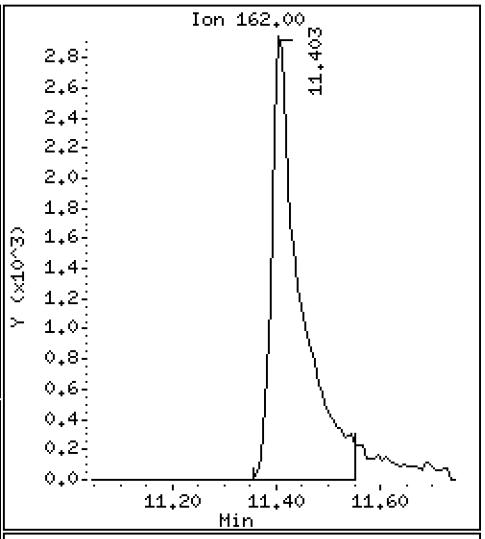
Column phase: ZB-5msi

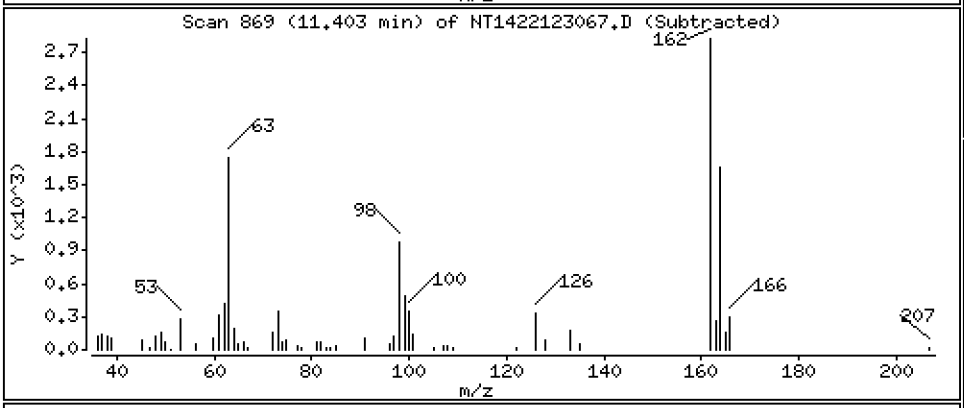
Column diameter: 0.25

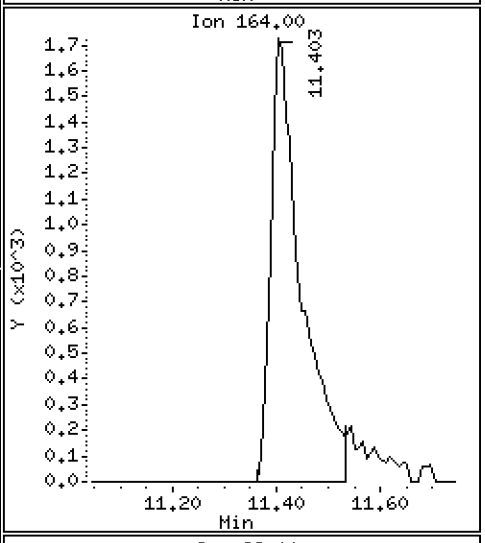
25 2,4-Dichlorophenol

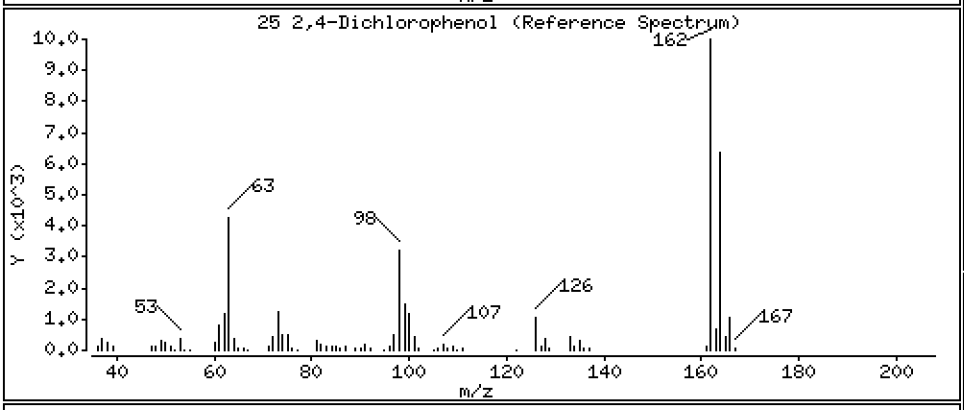
Concentration: 0.4100 ug/mL

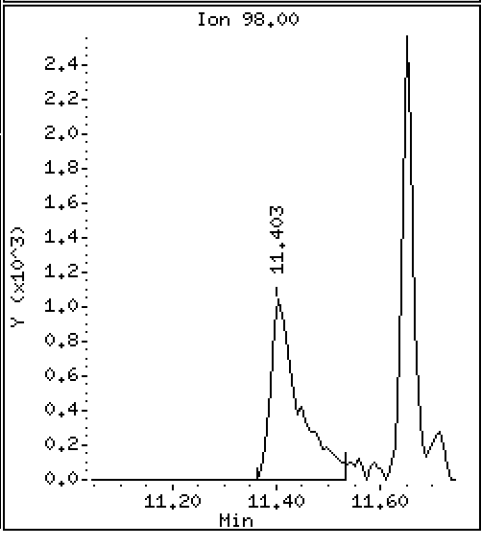


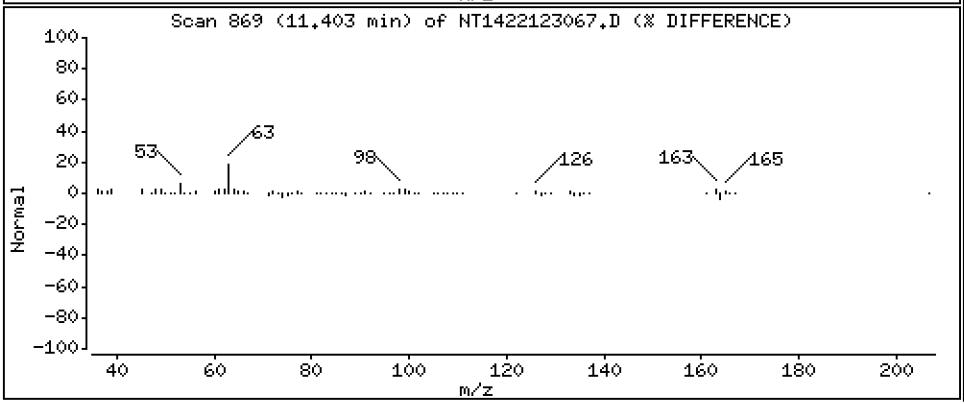












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

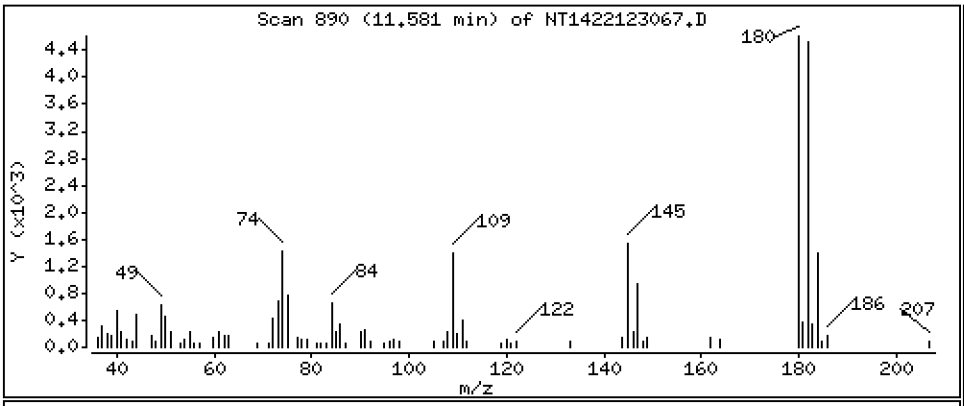
Operator: VTS

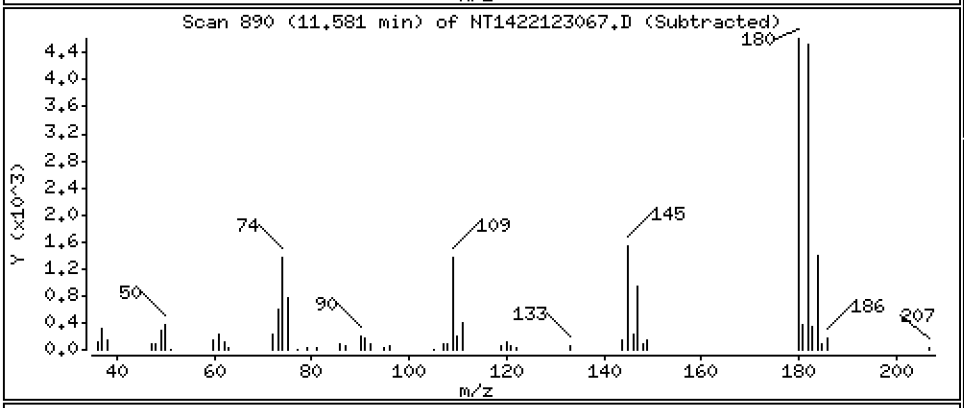
Column phase: ZB-5msi

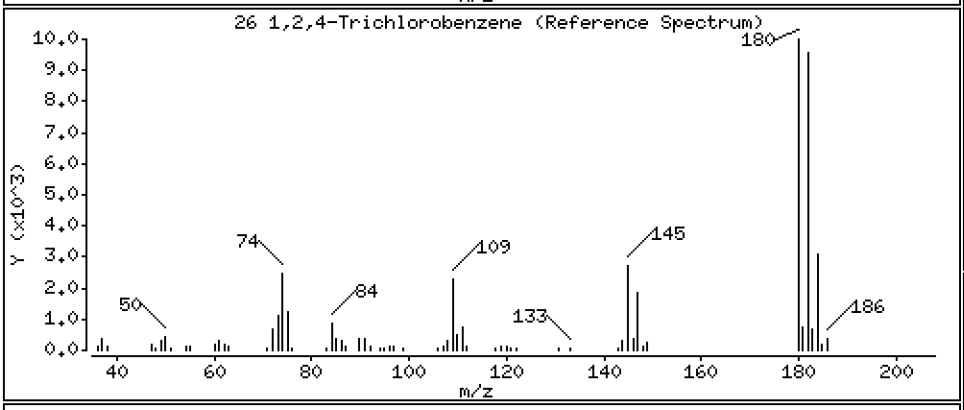
Column diameter: 0.25

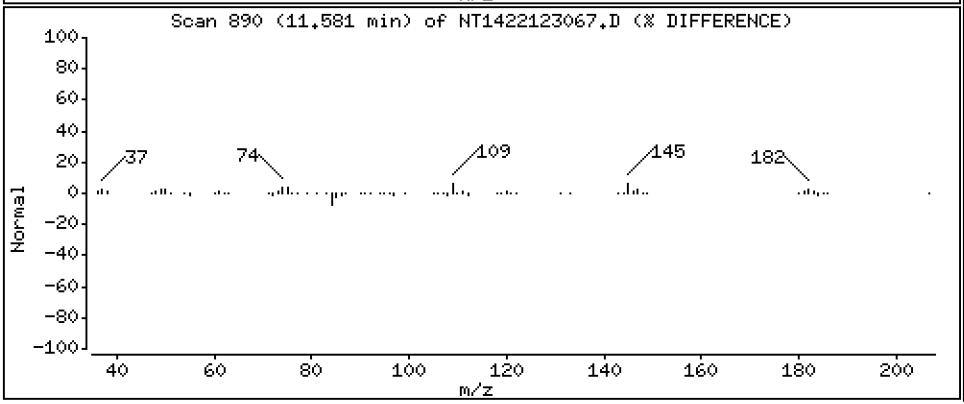
26 1,2,4-Trichlorobenzene

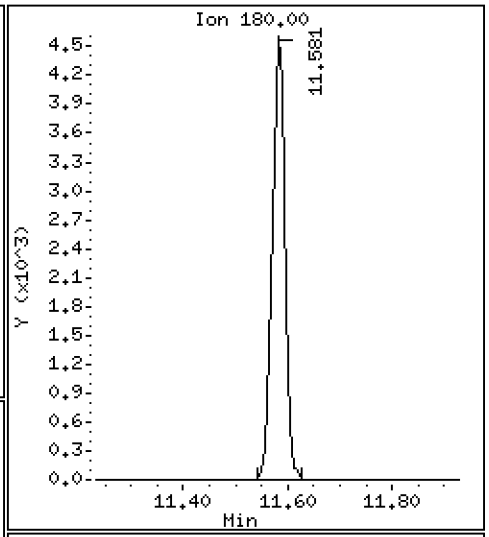
Concentration: 0.2401 ug/mL

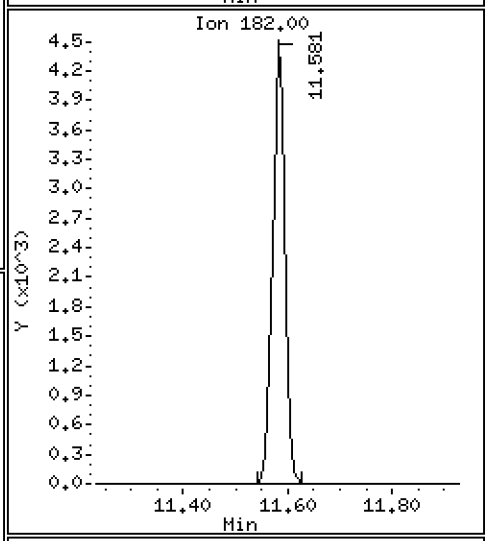


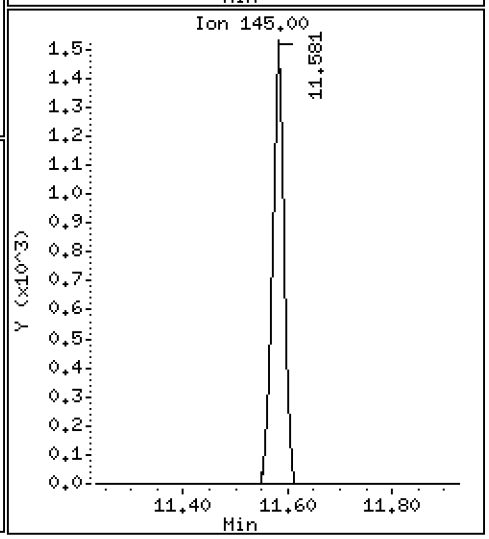












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

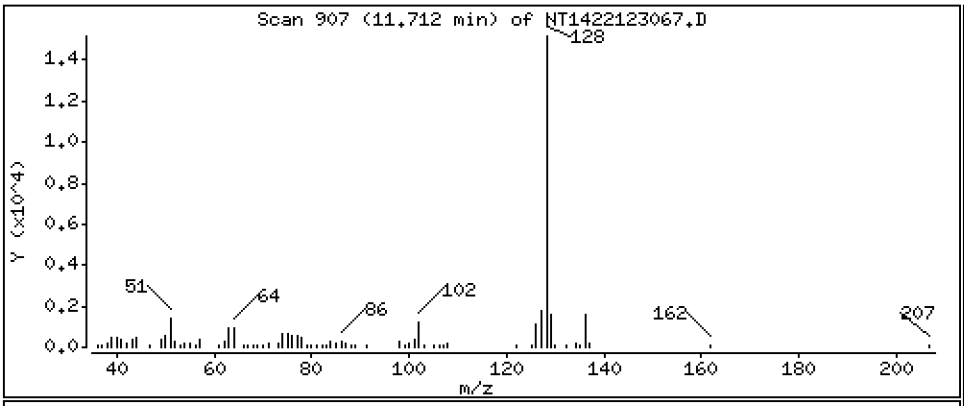
Operator: VTS

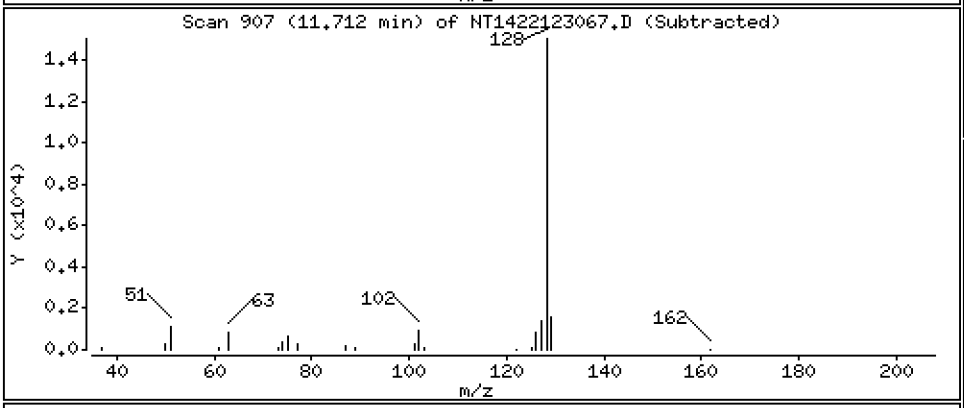
Column phase: ZB-5msi

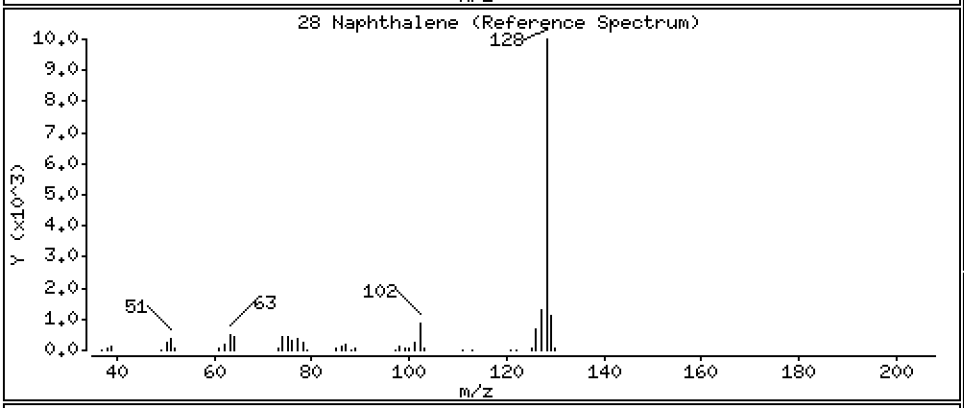
Column diameter: 0.25

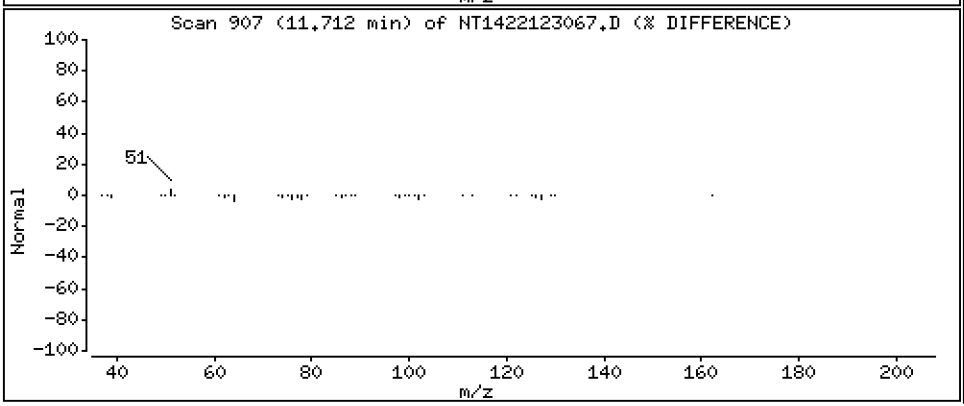
28 Naphthalene

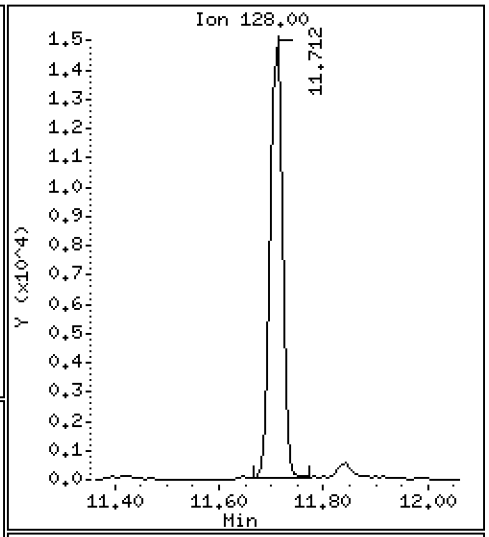
Concentration: 0.2355 ug/mL

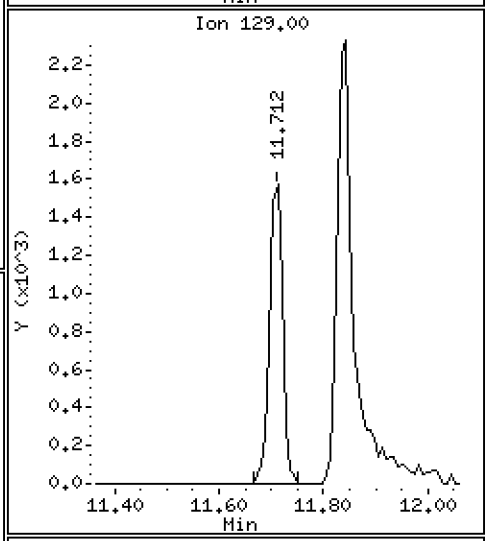


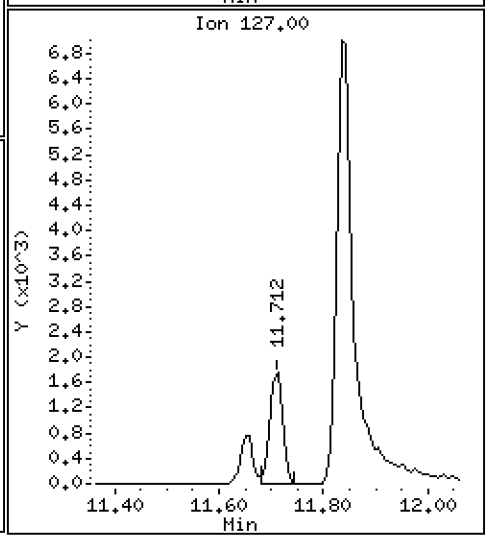












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

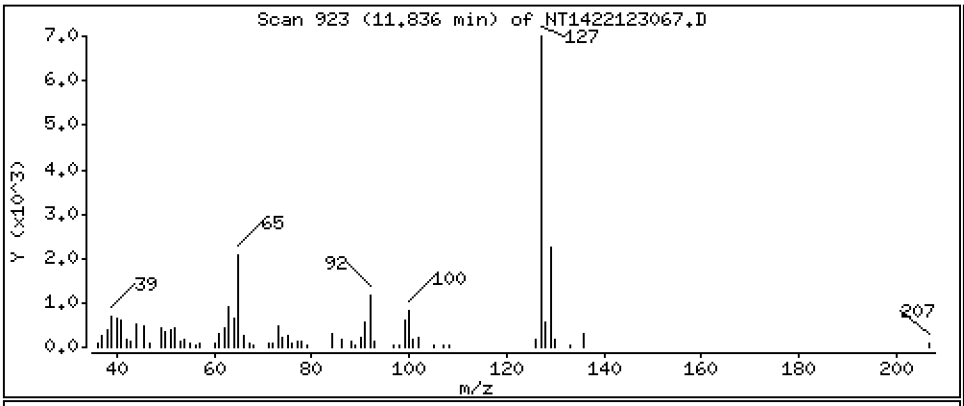
Operator: VTS

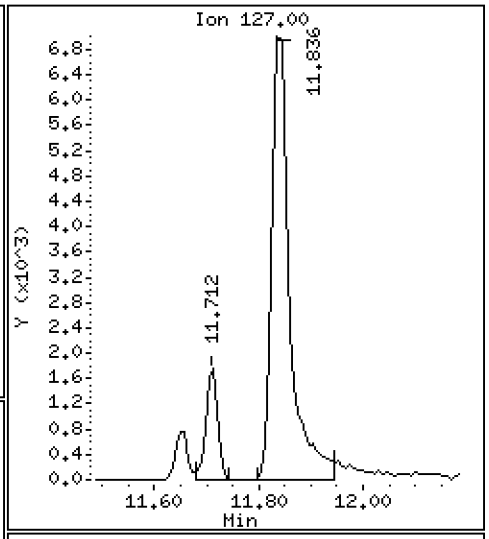
Column phase: ZB-5msi

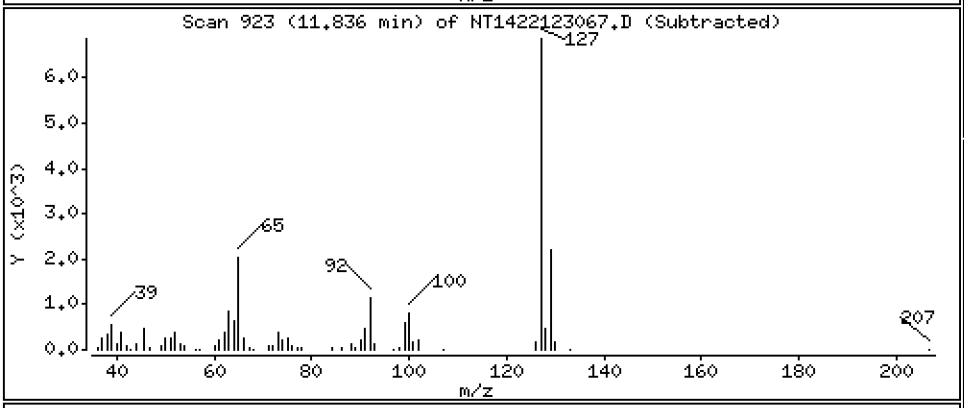
Column diameter: 0.25

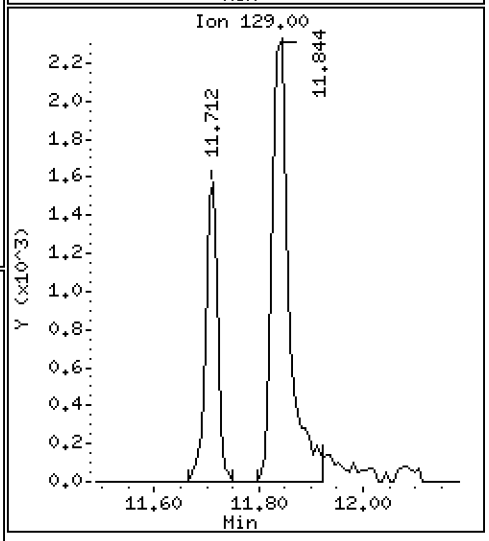
29 4-Chloroaniline

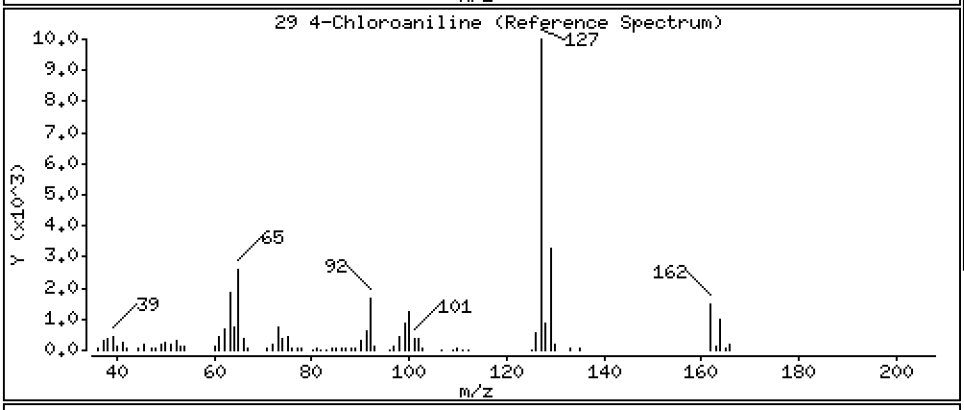
Concentration: 0.4051 ug/mL

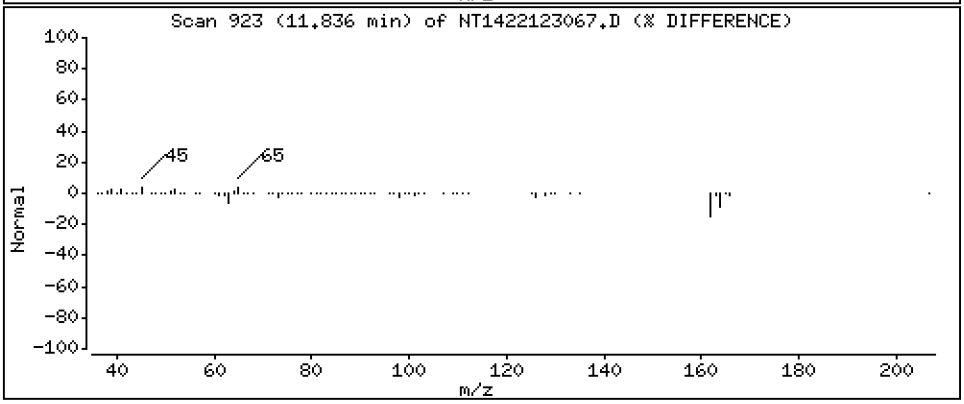












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

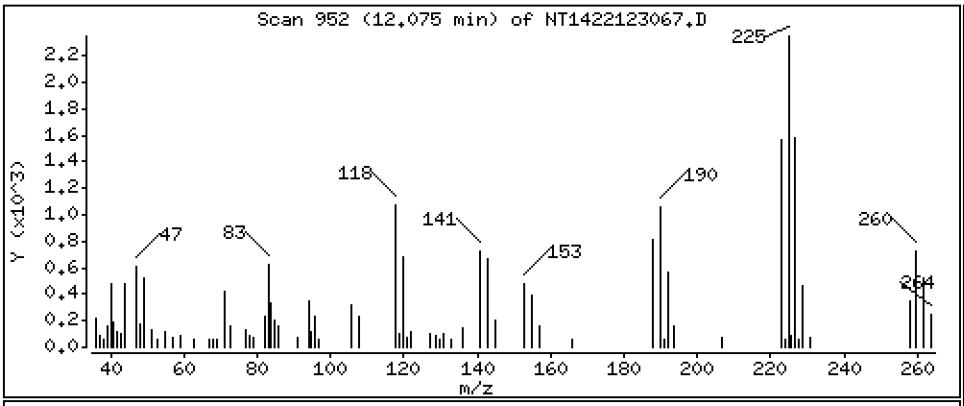
Operator: VTS

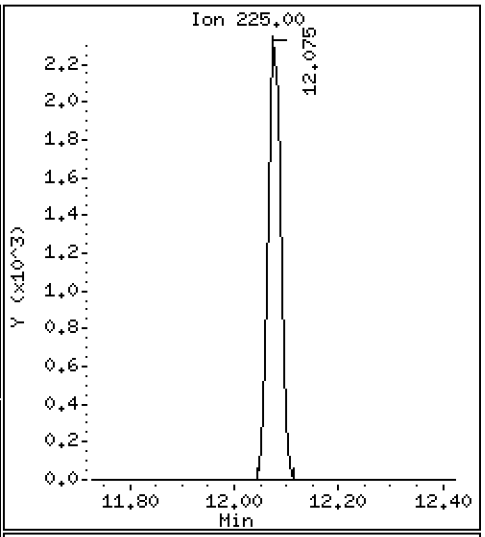
Column phase: ZB-5msi

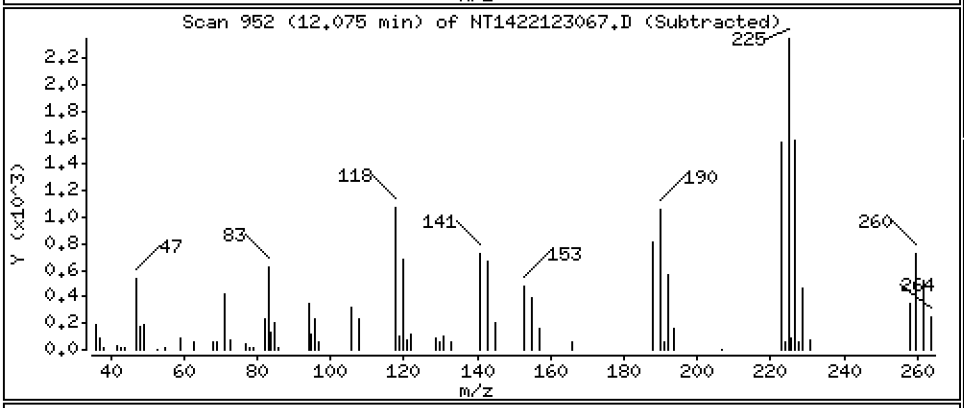
Column diameter: 0.25

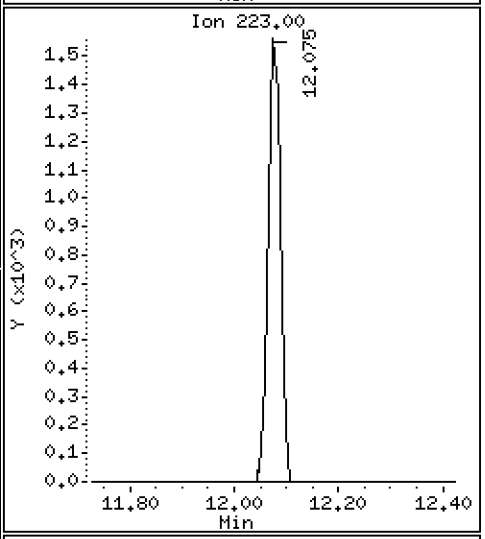
30 Hexachlorobutadiene

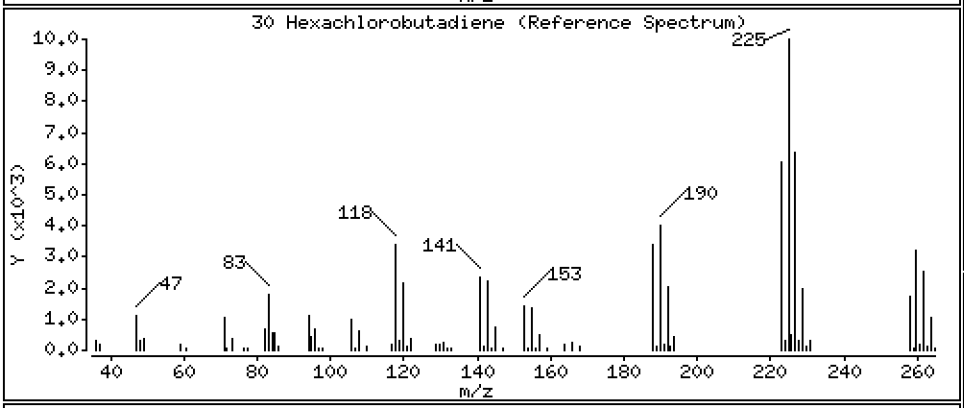
Concentration: 0.2380 ug/mL

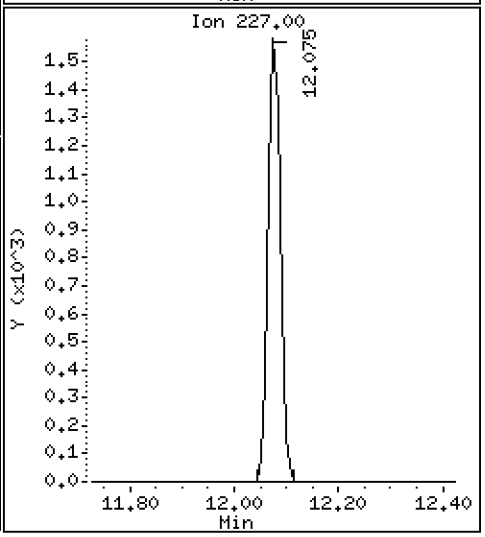


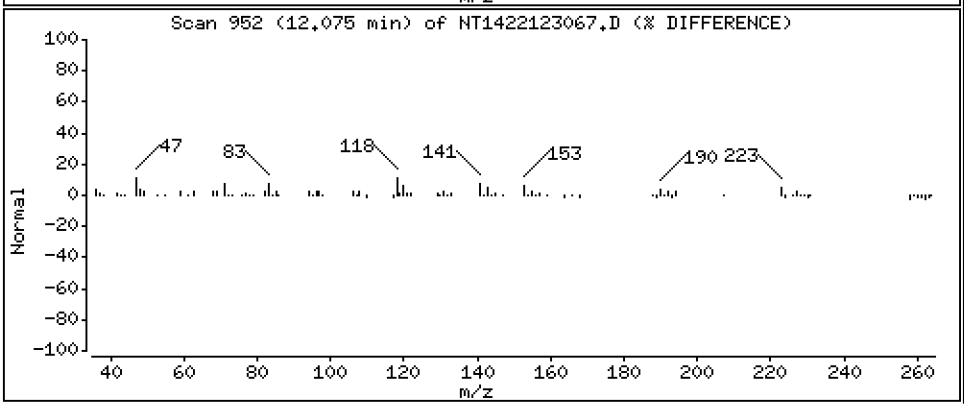












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123067.D

Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

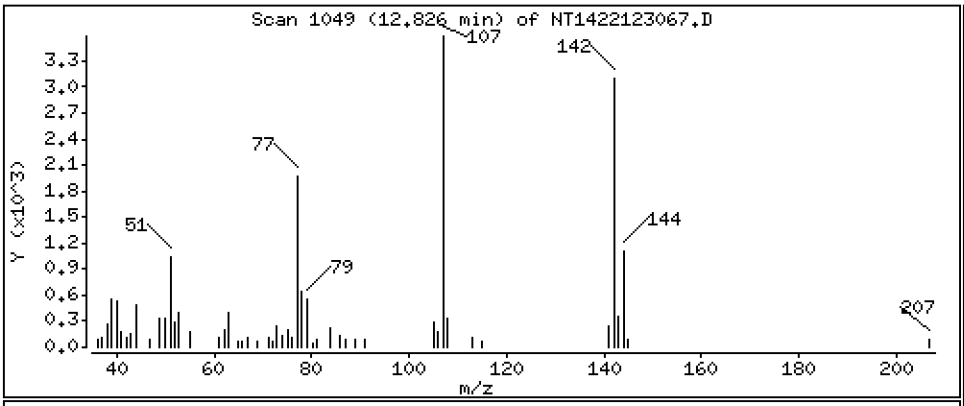
Operator: VTS

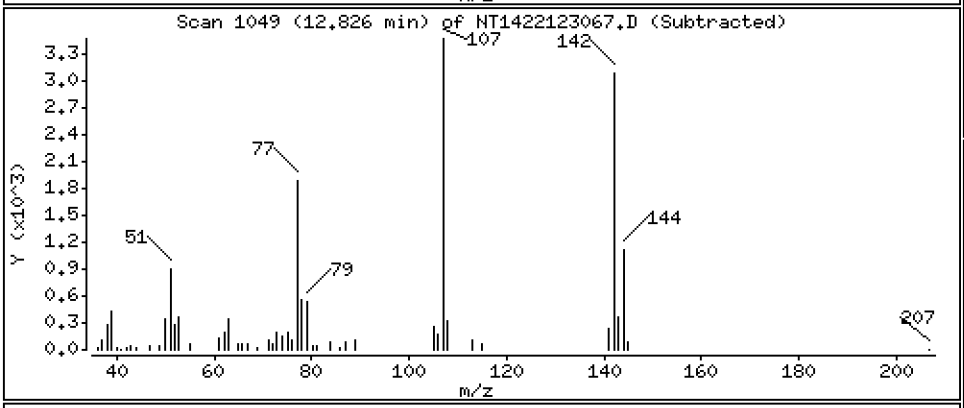
Column phase: ZB-5msi

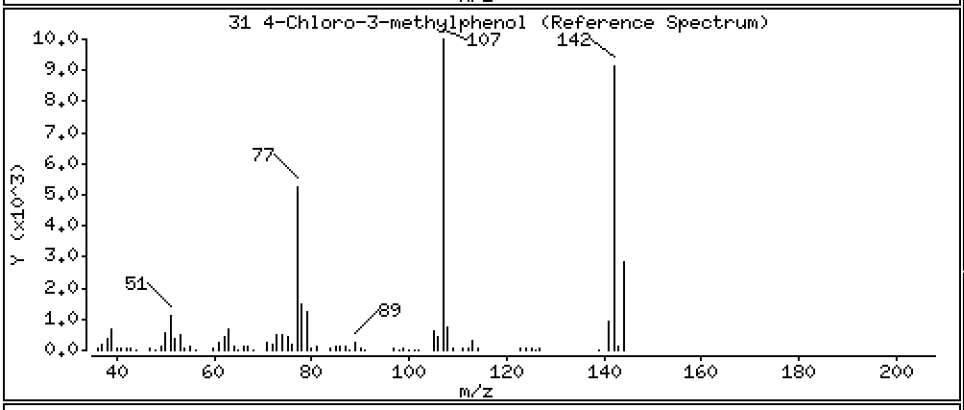
Column diameter: 0.25

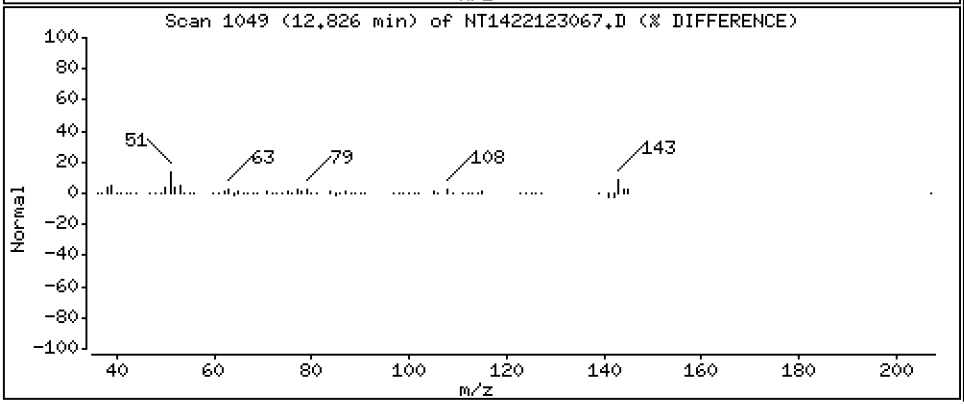
31 4-Chloro-3-methylphenol

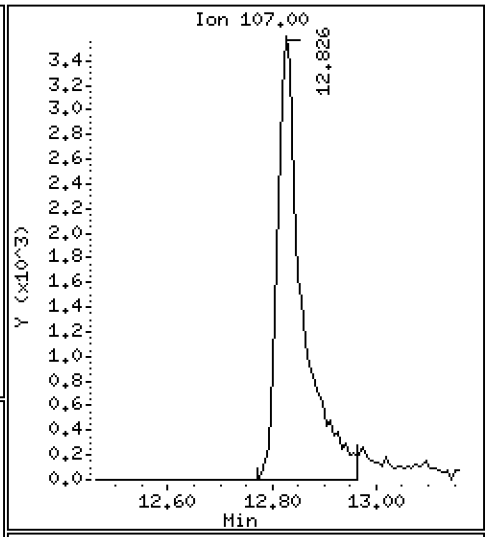
Concentration: 0.4327 ug/mL

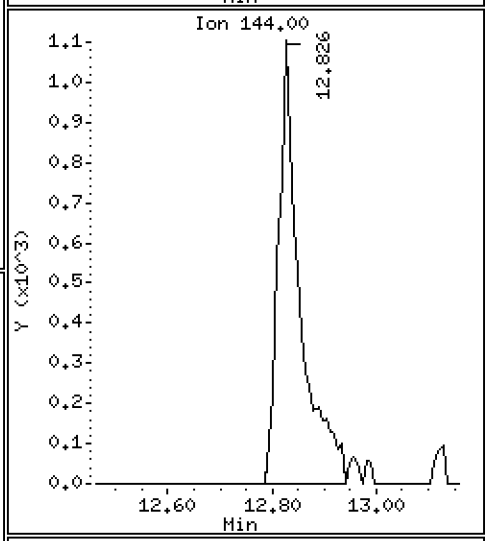


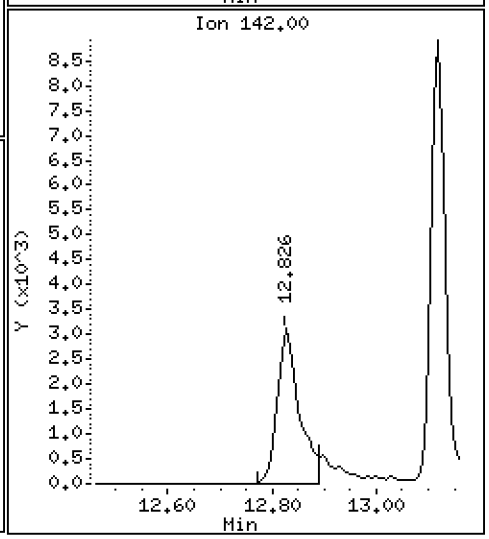












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

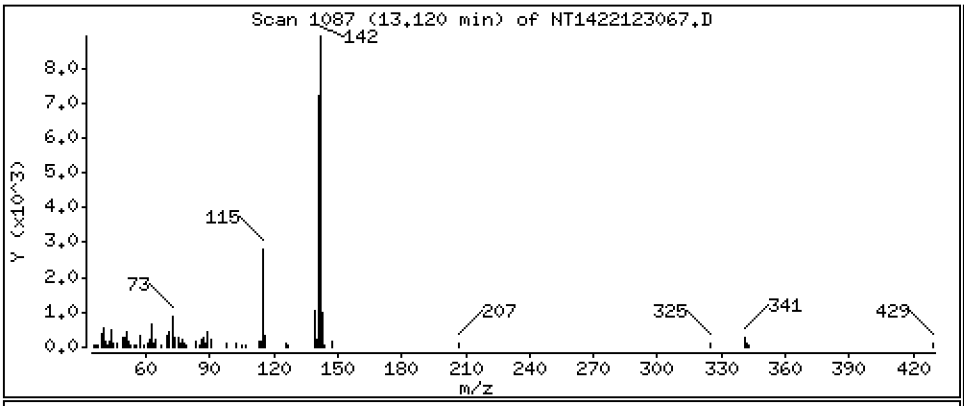
Operator: VTS

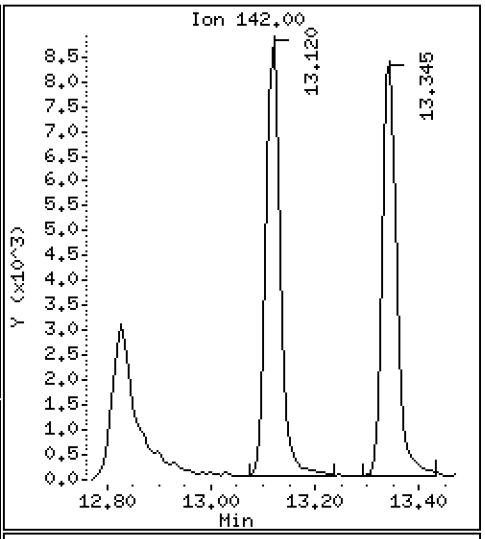
Column phase: ZB-5msi

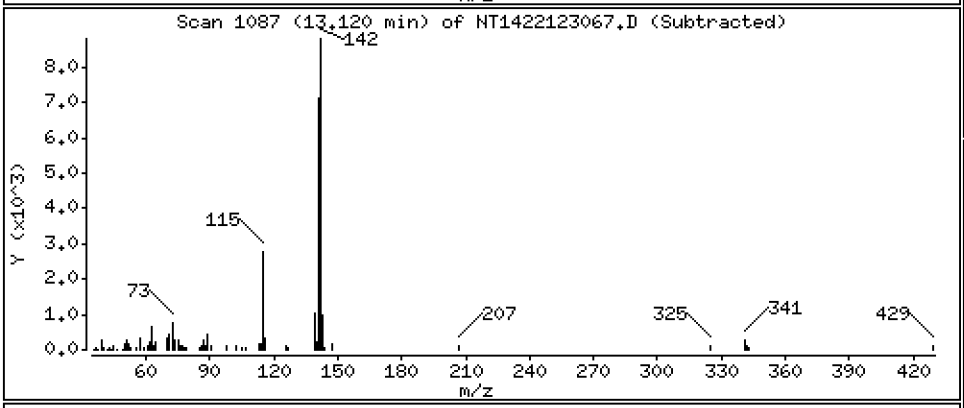
Column diameter: 0.25

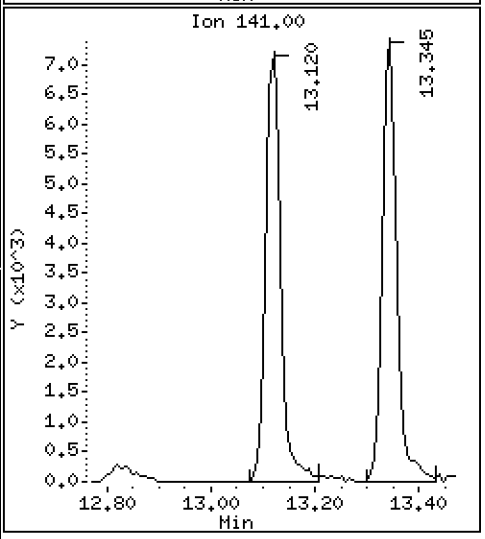
32 2-Methylnaphthalene

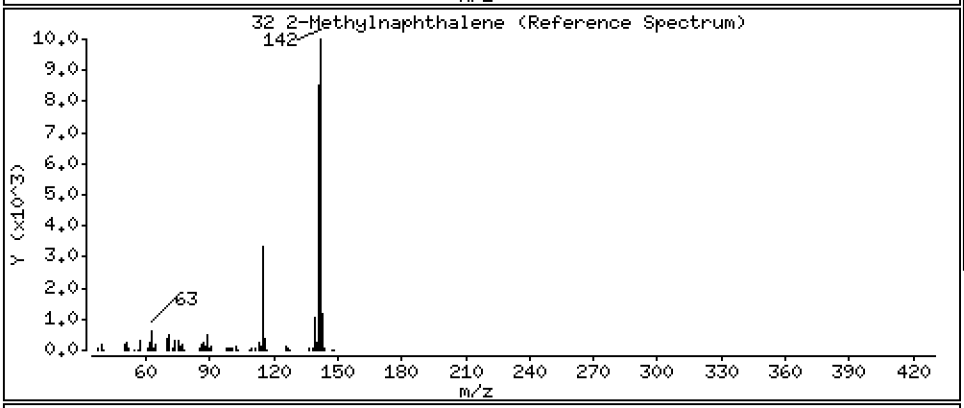
Concentration: 0.2270 ug/mL

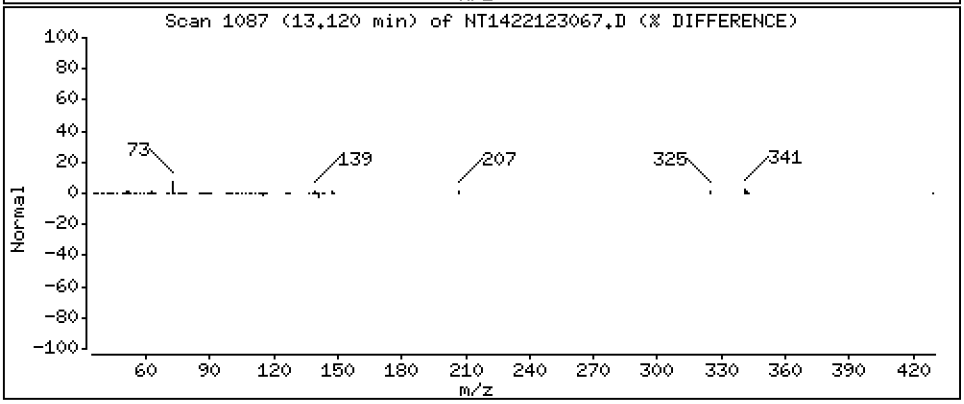












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123067.D

Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

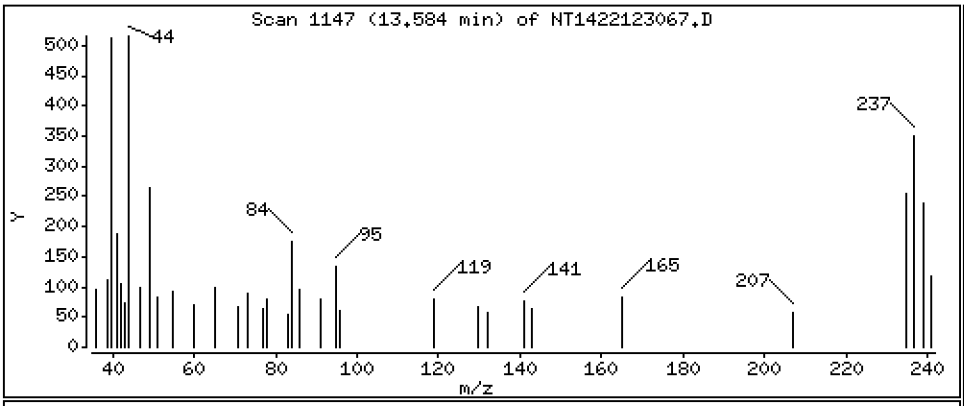
Operator: VTS

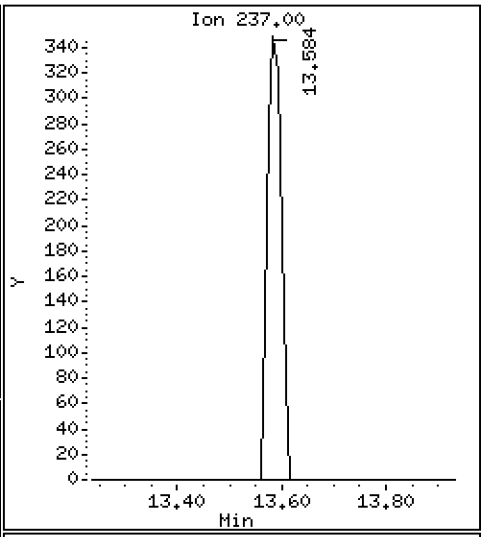
Column phase: ZB-5msi

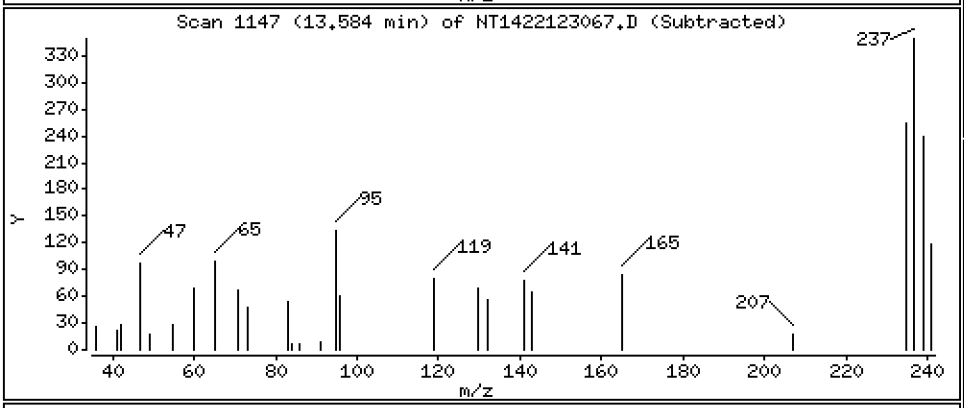
Column diameter: 0.25

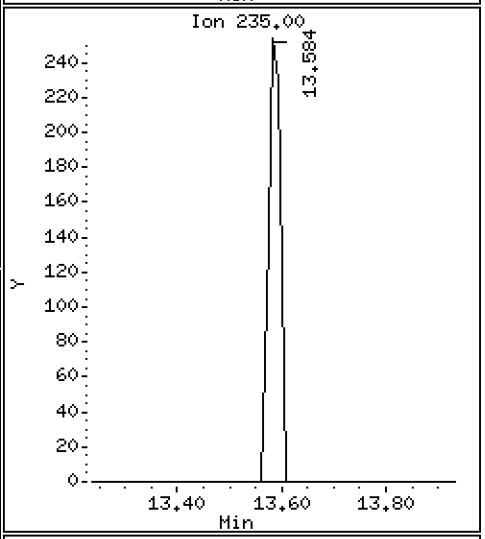
33 Hexachlorocyclopentadiene

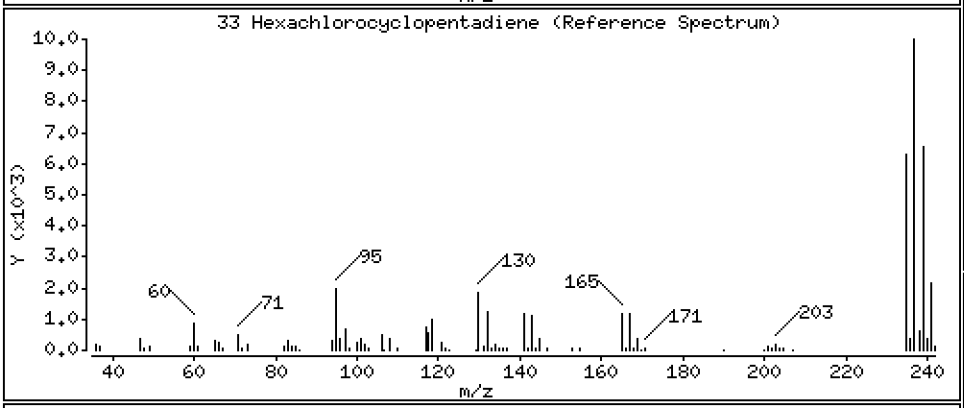
Concentration: 0.04042 ug/mL

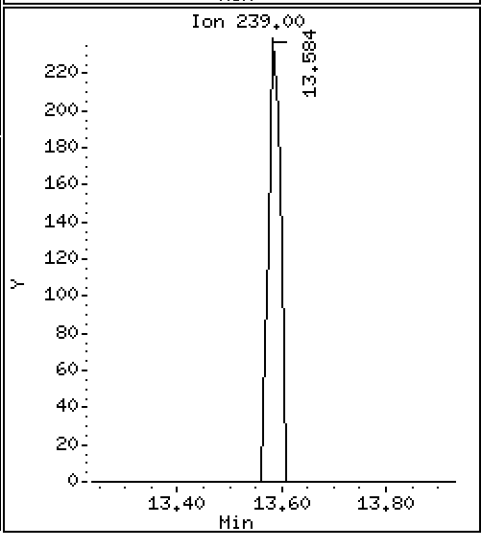


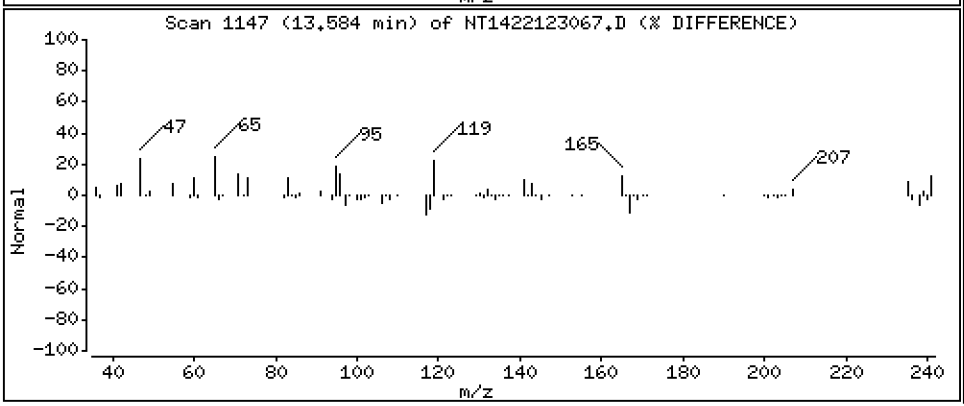












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

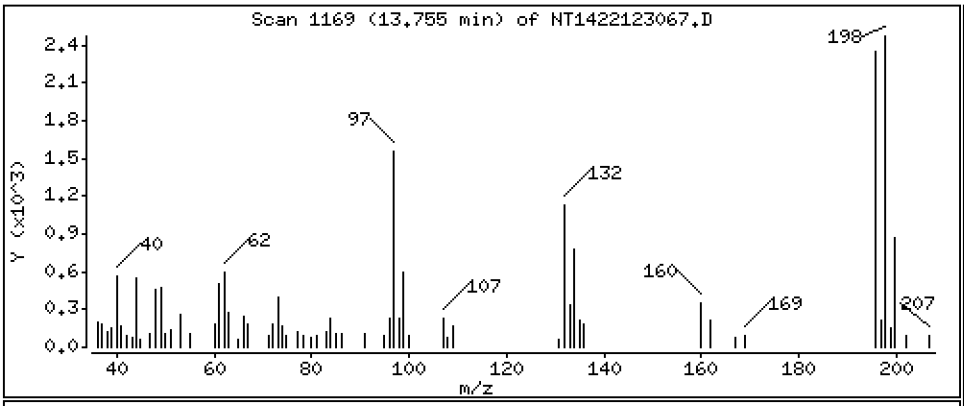
Operator: VTS

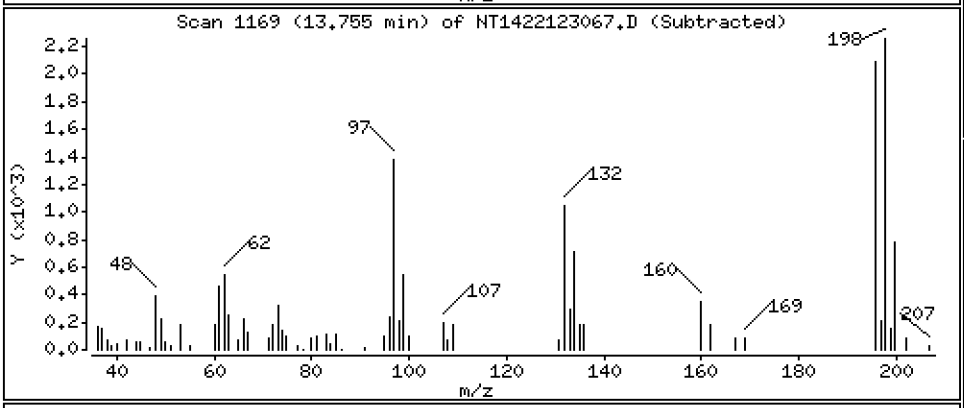
Column phase: ZB-5msi

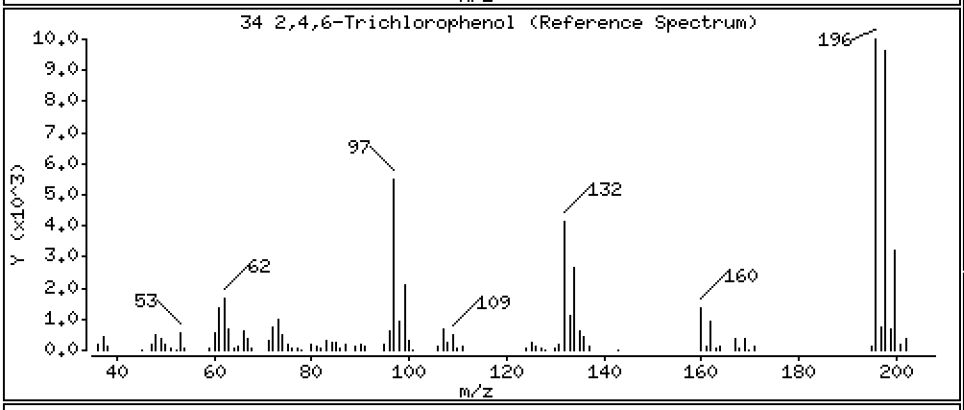
Column diameter: 0.25

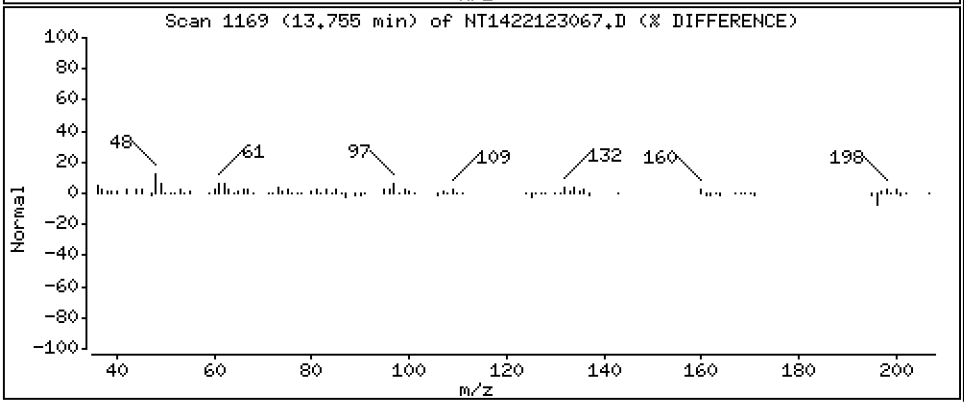
34 2,4,6-Trichlorophenol

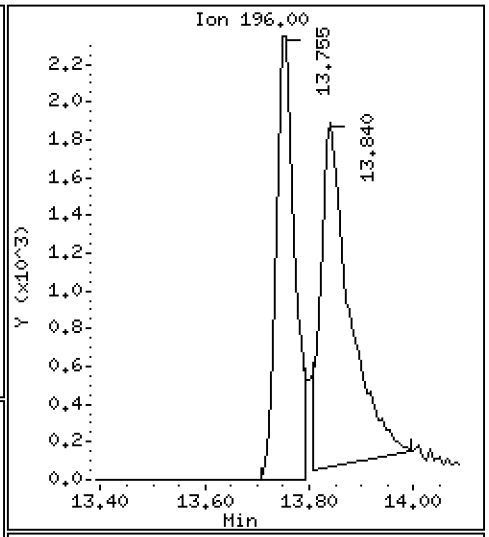
Concentration: 0.3442 ug/mL

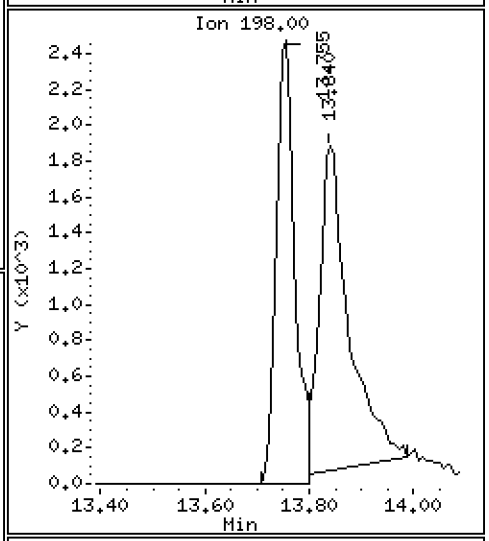


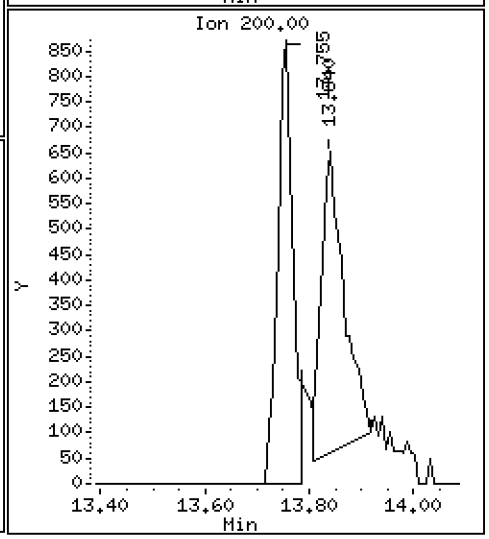












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

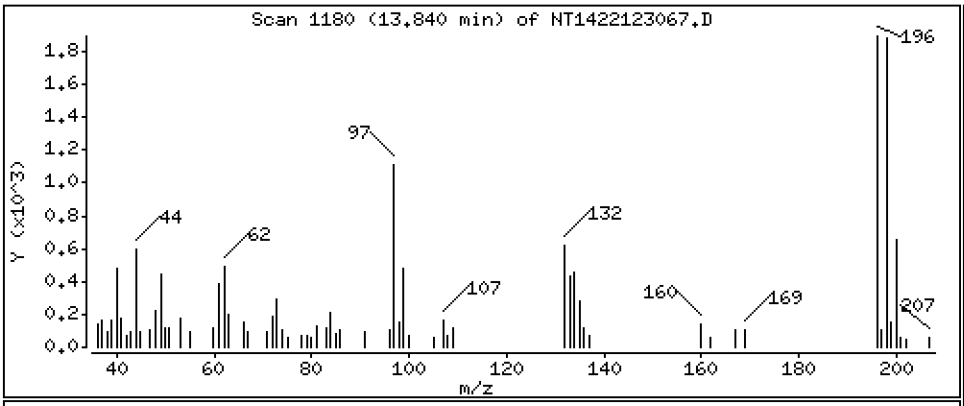
Operator: VTS

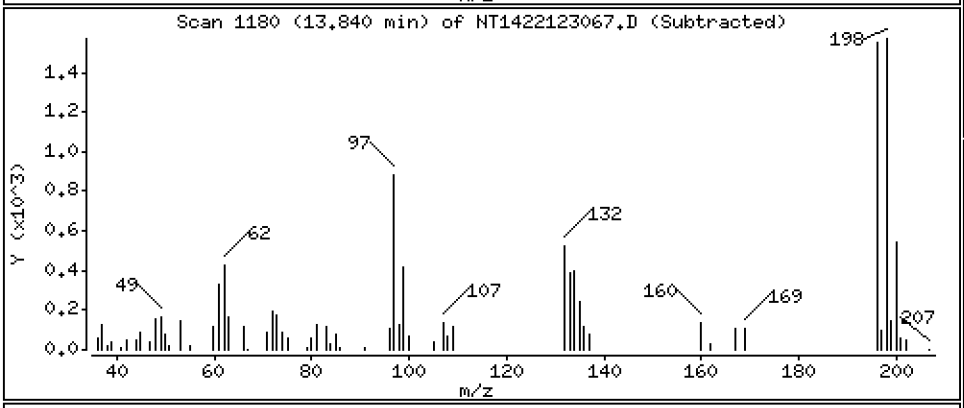
Column phase: ZB-5msi

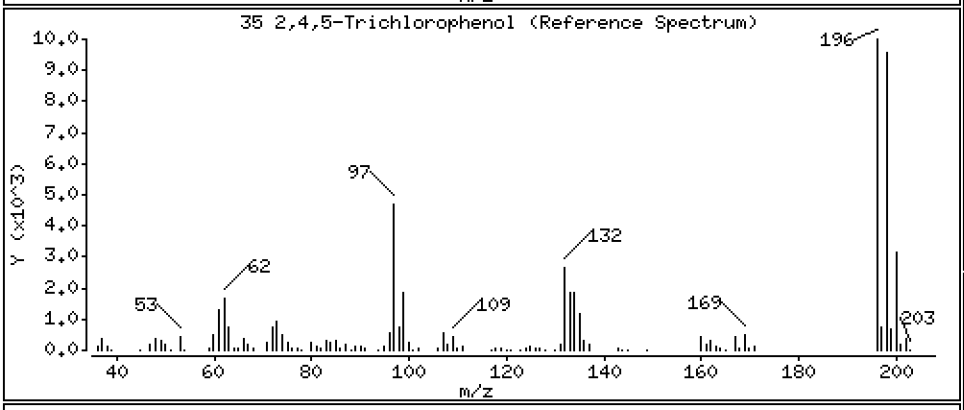
Column diameter: 0.25

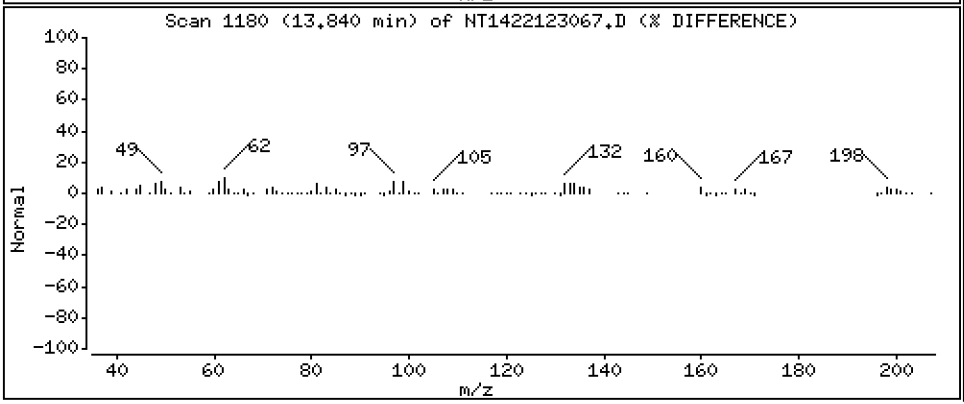
35 2,4,5-Trichlorophenol

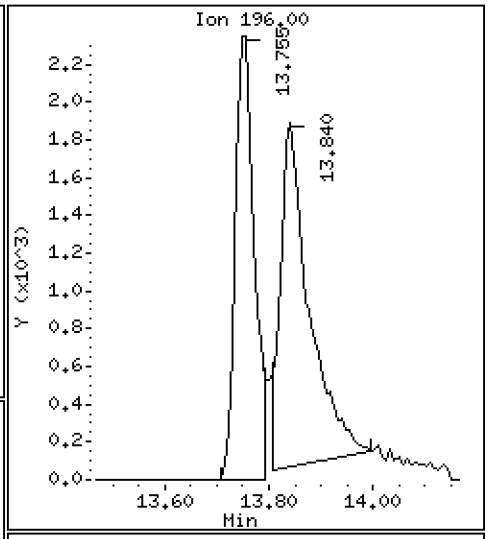
Concentration: 0.3604 ug/mL

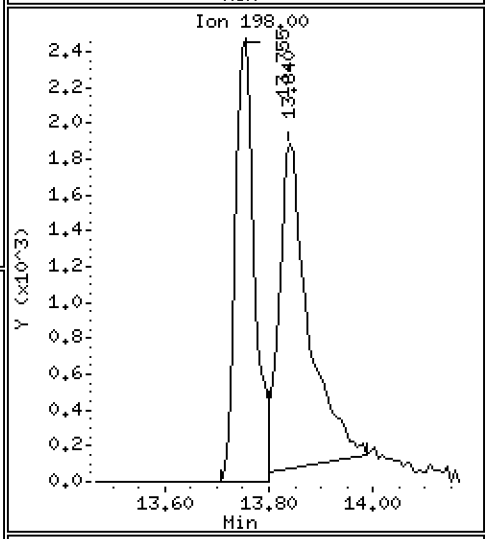


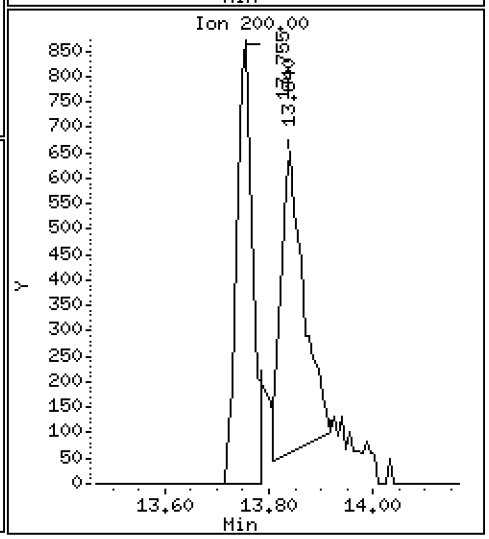












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

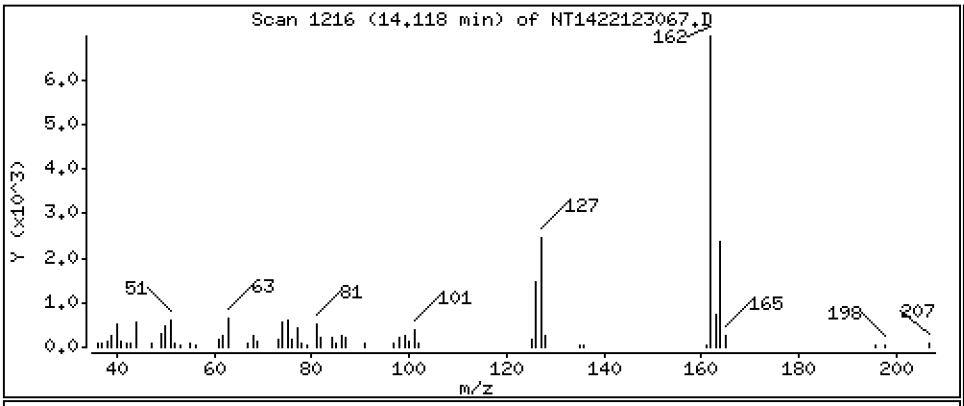
Operator: VTS

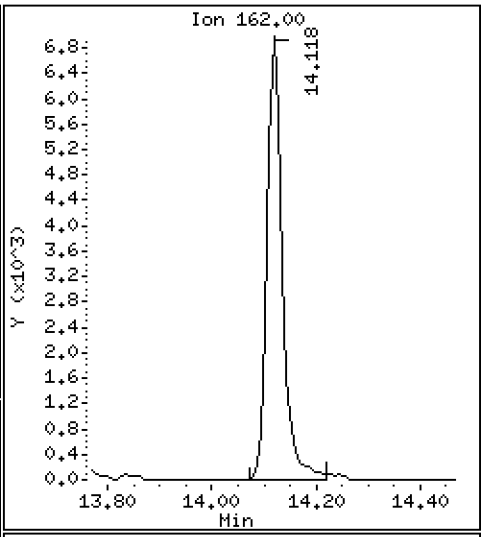
Column phase: ZB-5msi

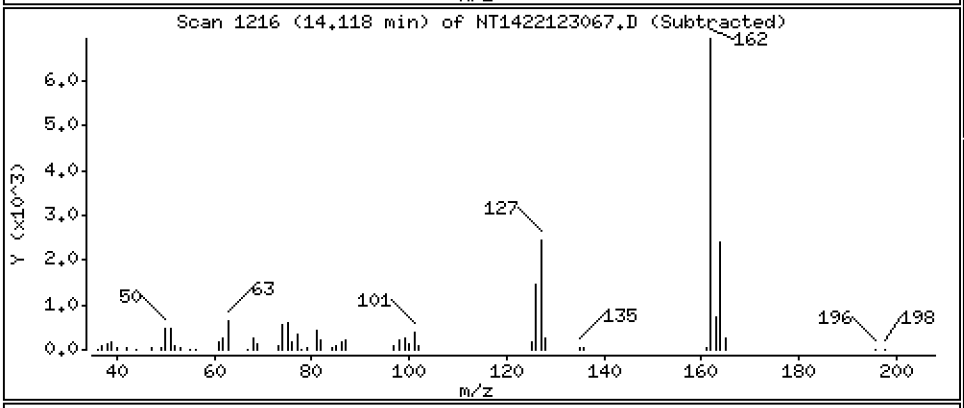
Column diameter: 0.25

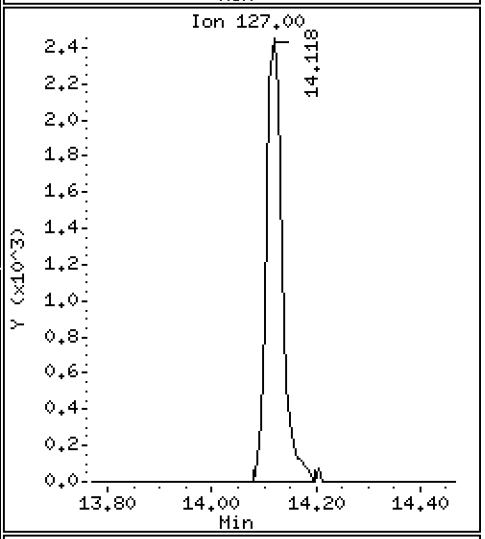
37 2-Chloronaphthalene

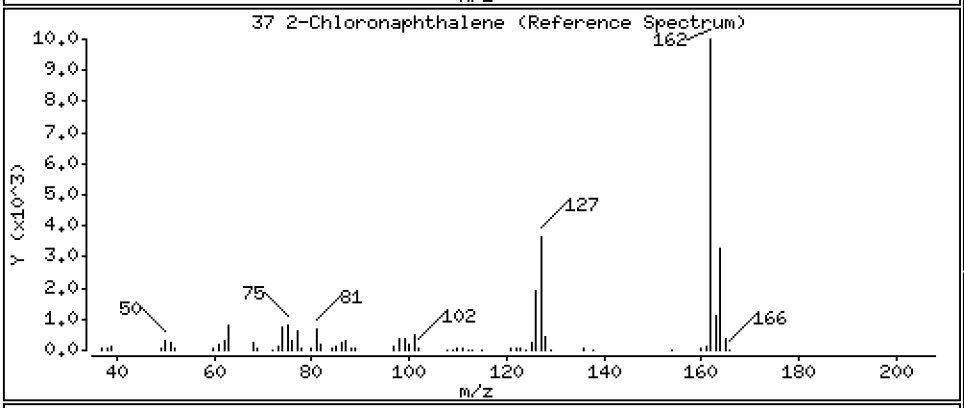
Concentration: 0.2346 ug/mL

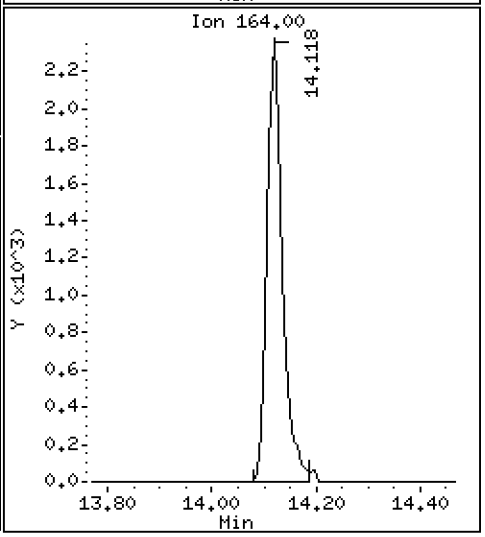


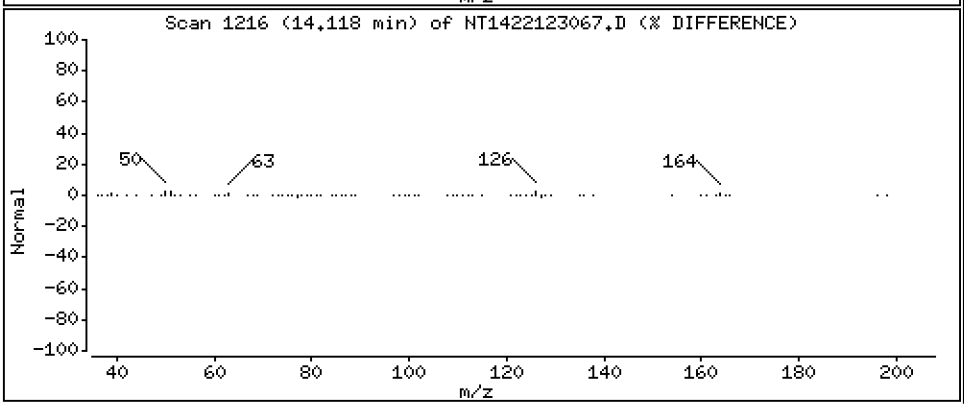












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

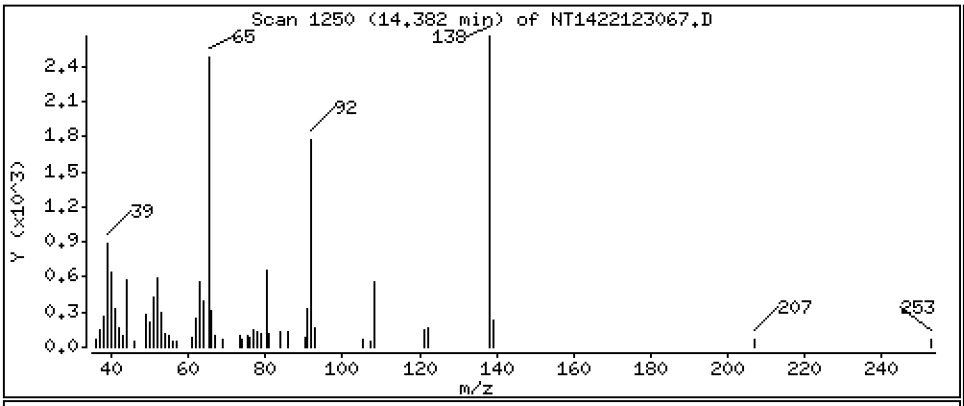
Operator: VTS

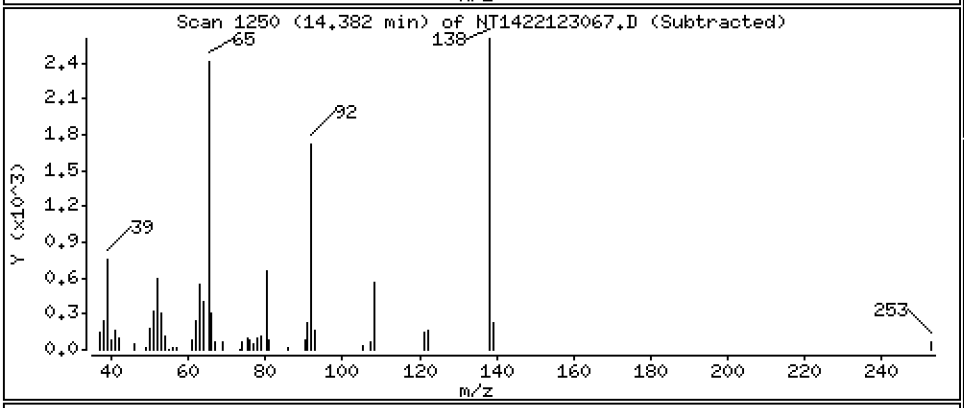
Column phase: ZB-5msi

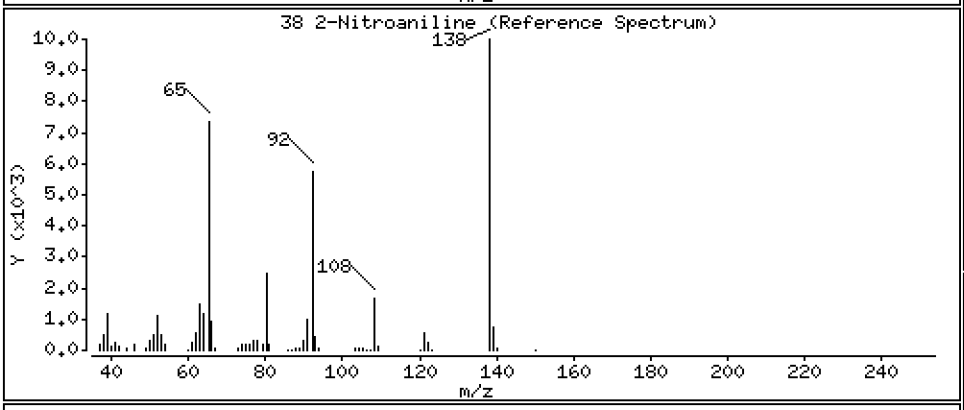
Column diameter: 0.25

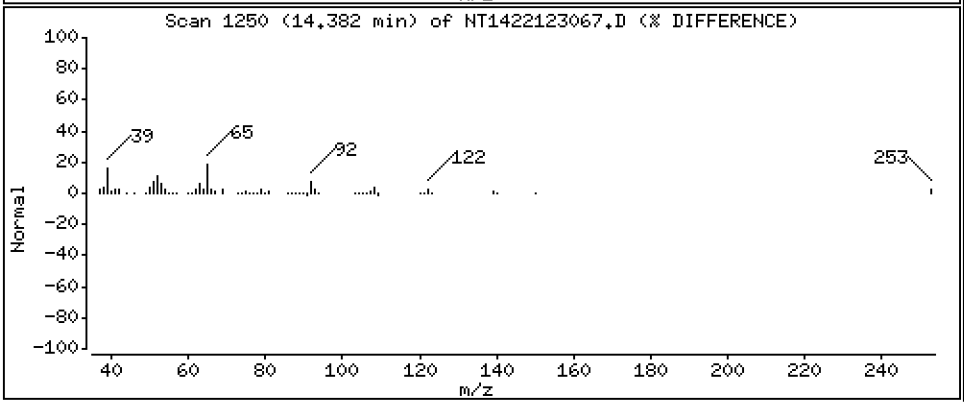
38 2-Nitroaniline

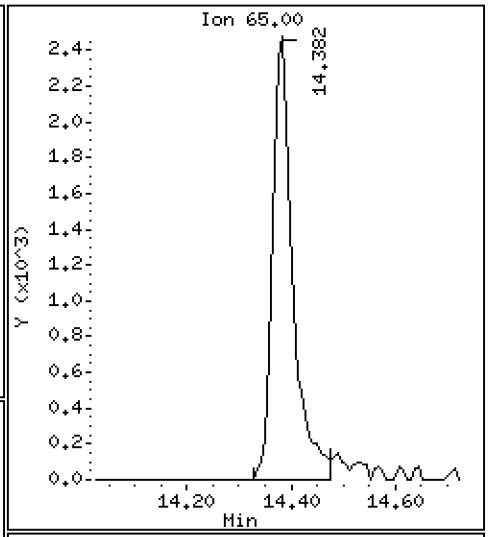
Concentration: 0.4296 ug/mL

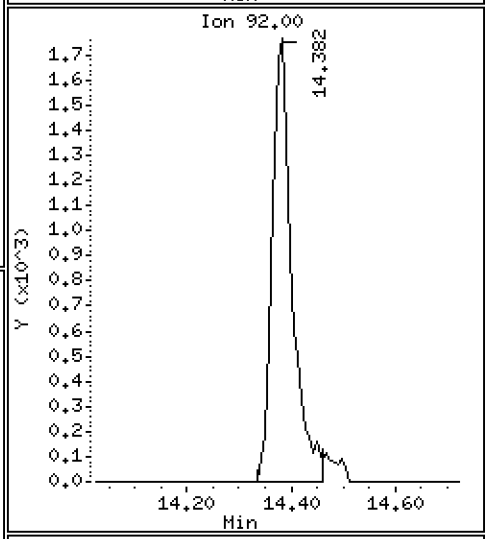


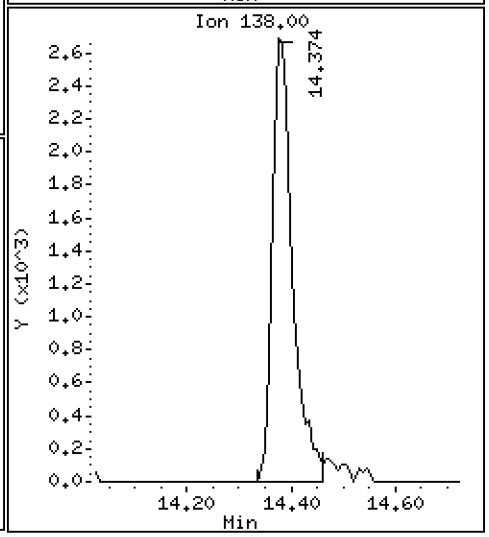












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

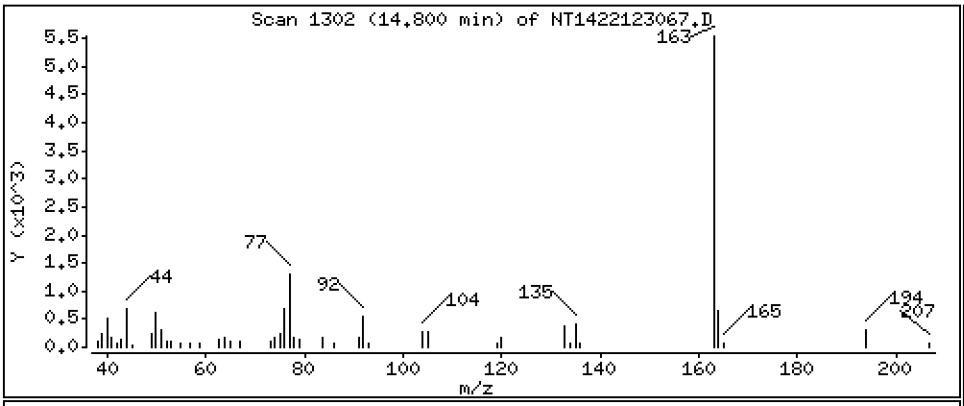
Operator: VTS

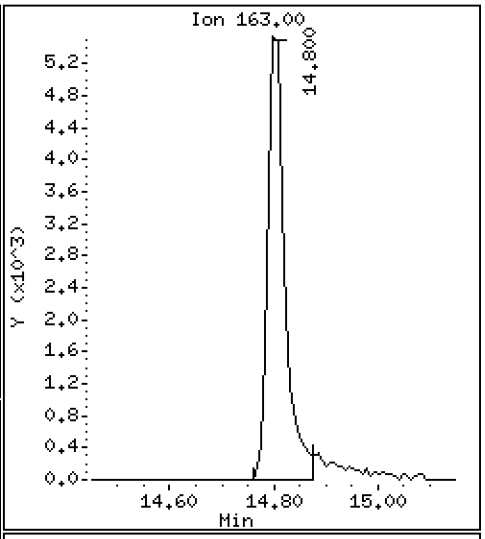
Column phase: ZB-5msi

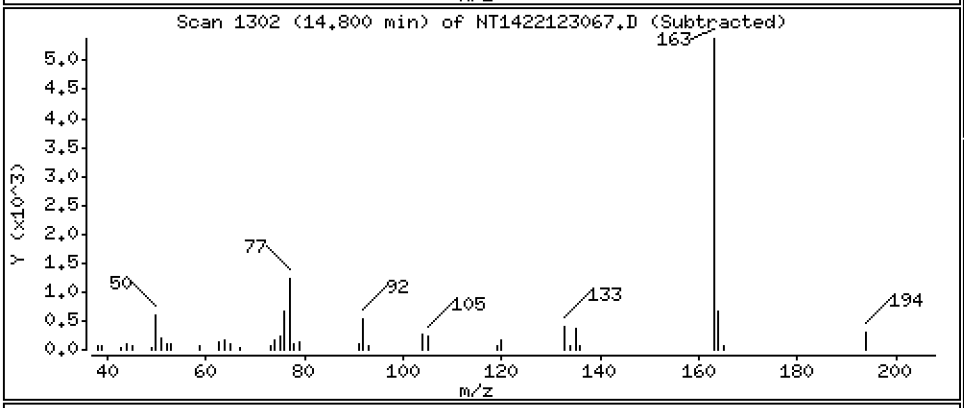
Column diameter: 0.25

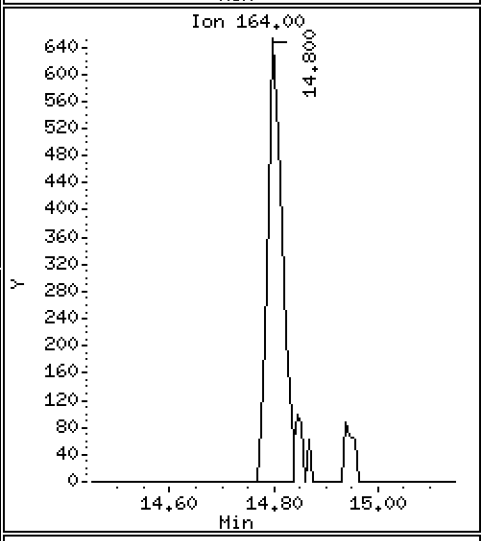
39 Dimethylphthalate

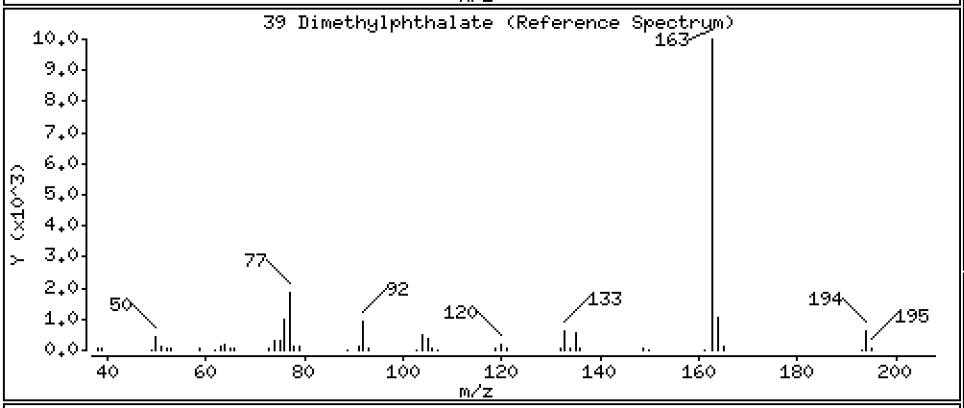
Concentration: 0.2138 ug/mL

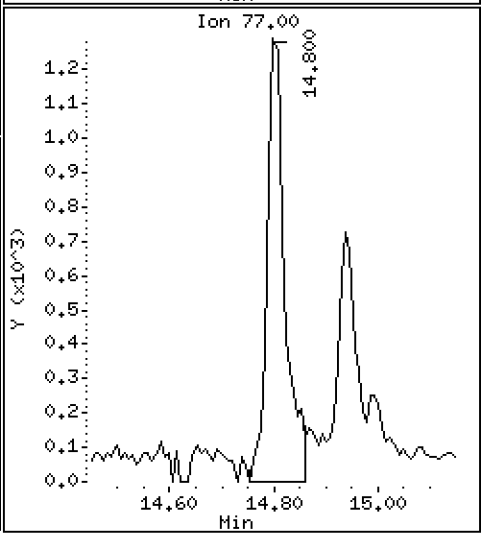


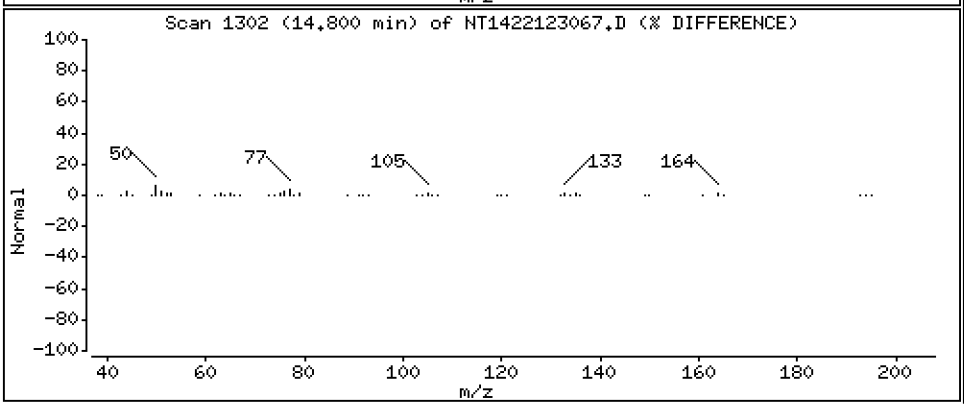












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

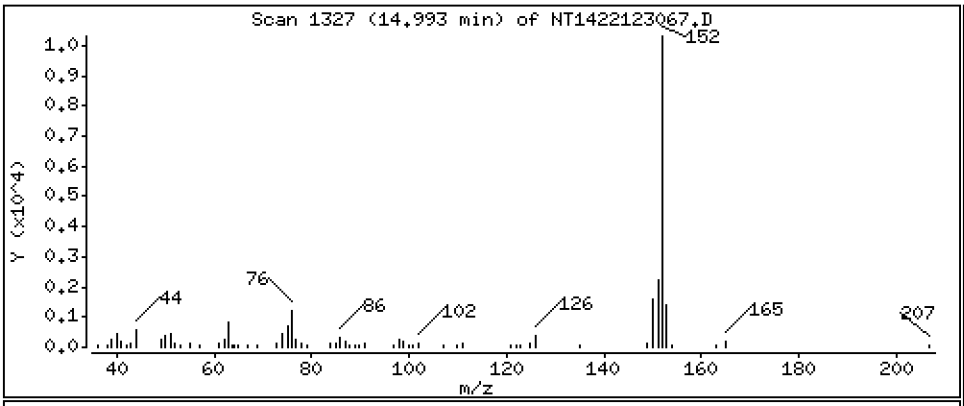
Operator: VTS

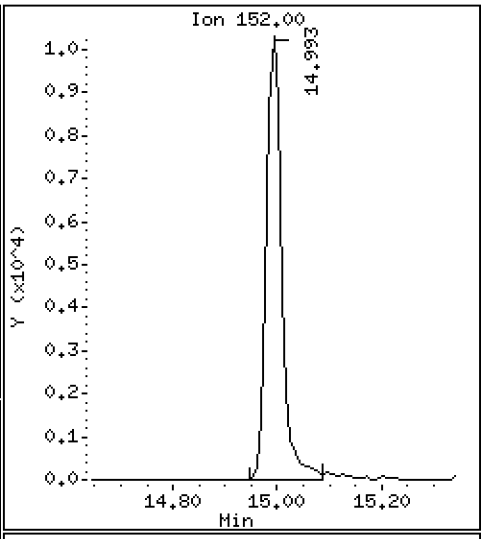
Column phase: ZB-5msi

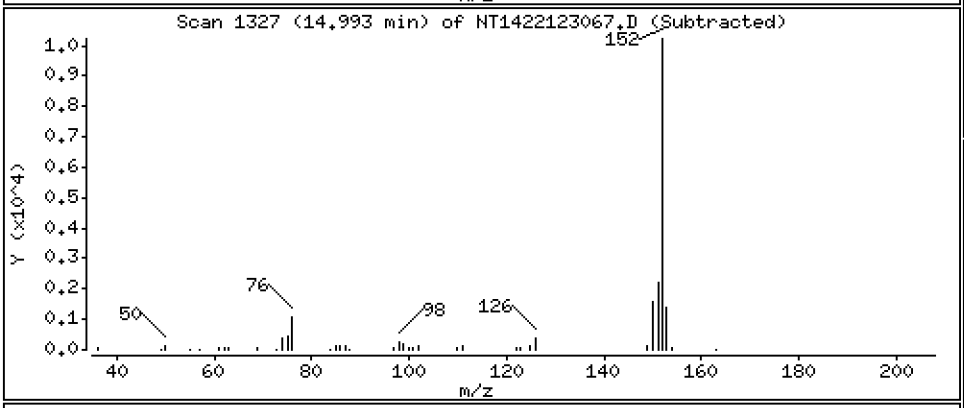
Column diameter: 0.25

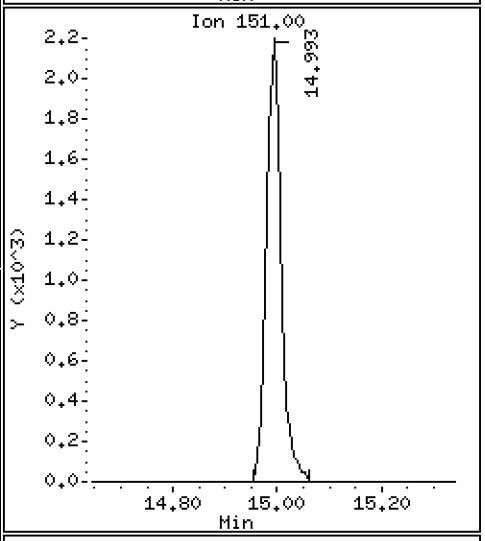
40 Acenaphthylene

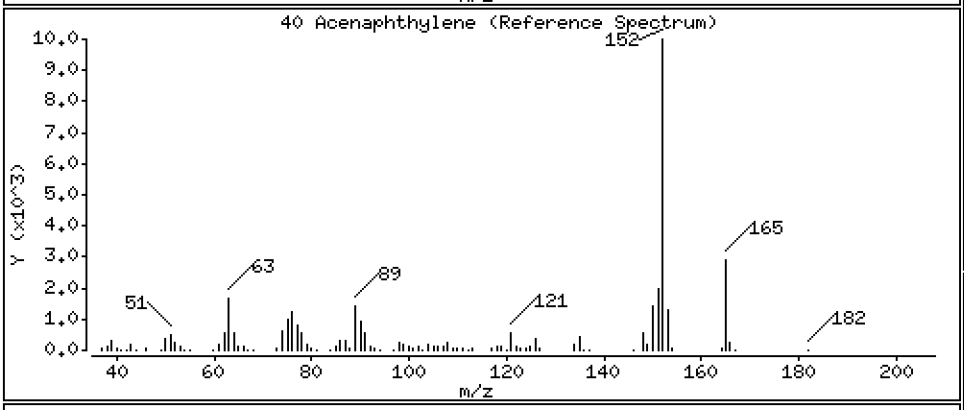
Concentration: 0.2291 ug/mL

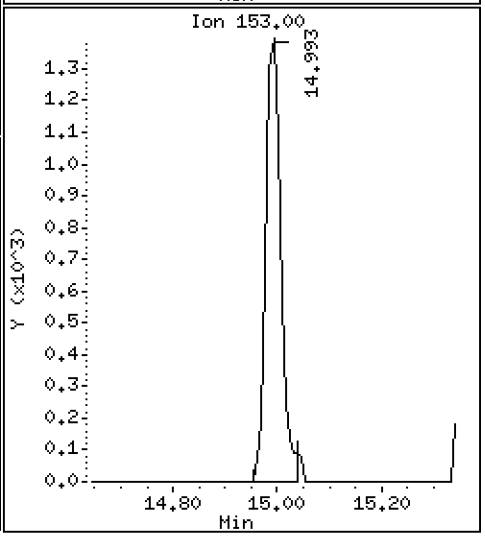


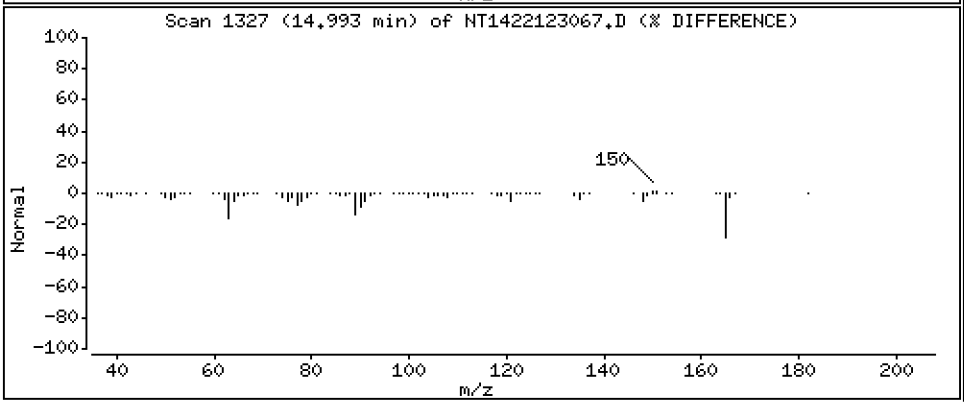












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

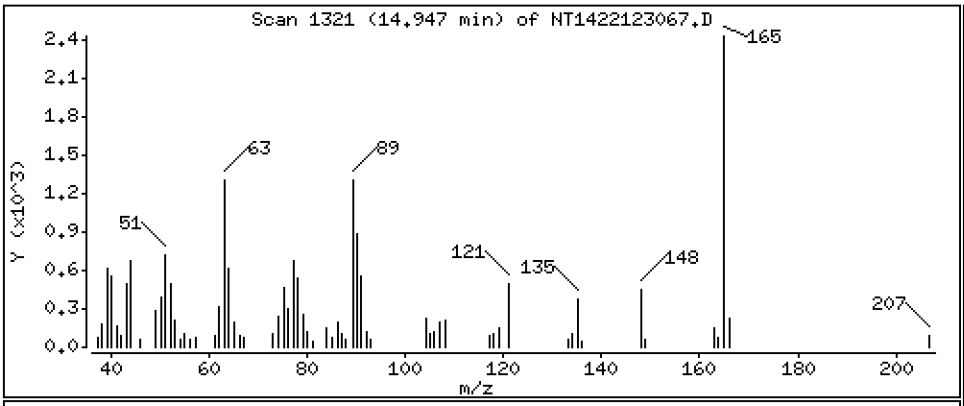
Operator: VTS

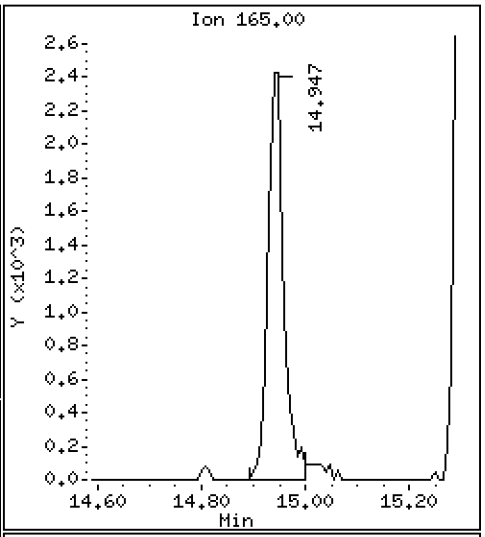
Column phase: ZB-5msi

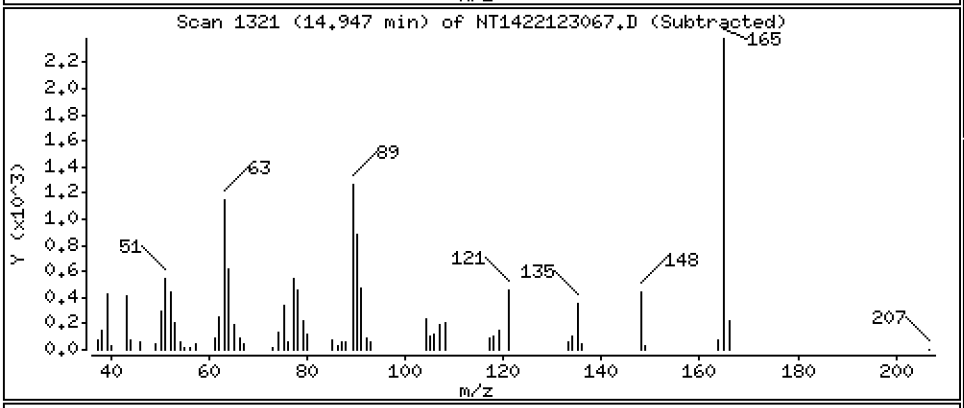
Column diameter: 0.25

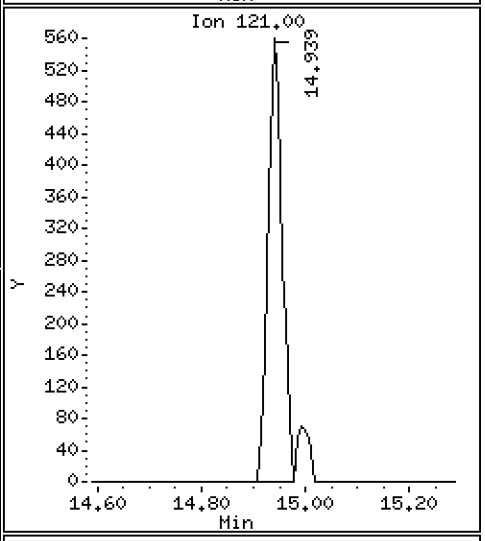
41 2,6-Dinitrotoluene

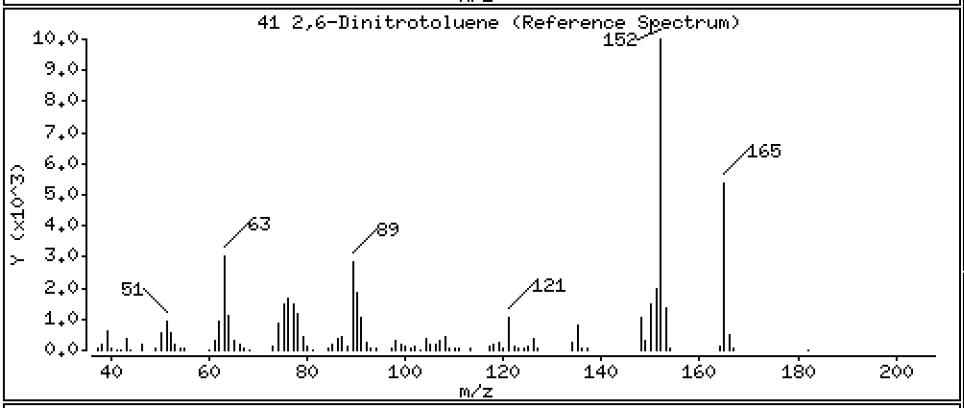
Concentration: 0.3820 ug/mL

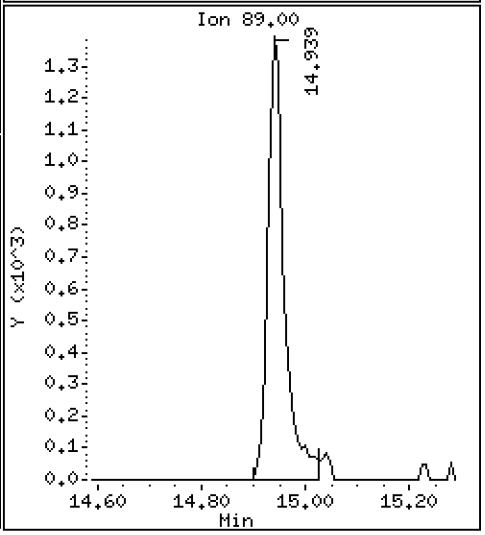


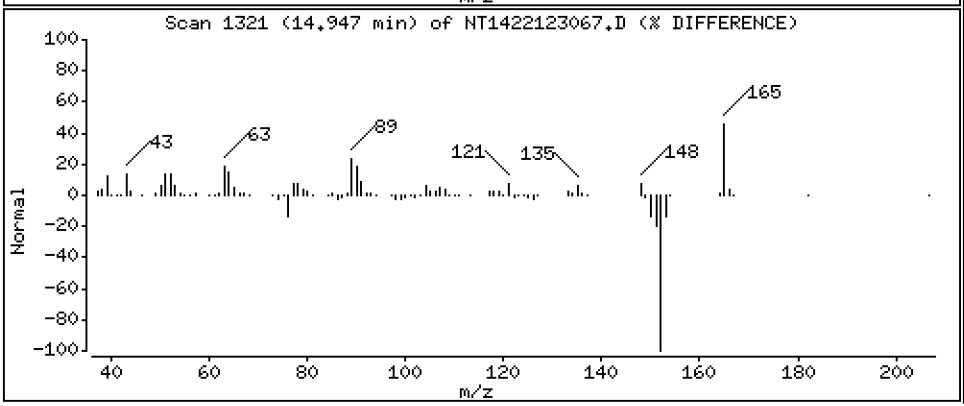












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

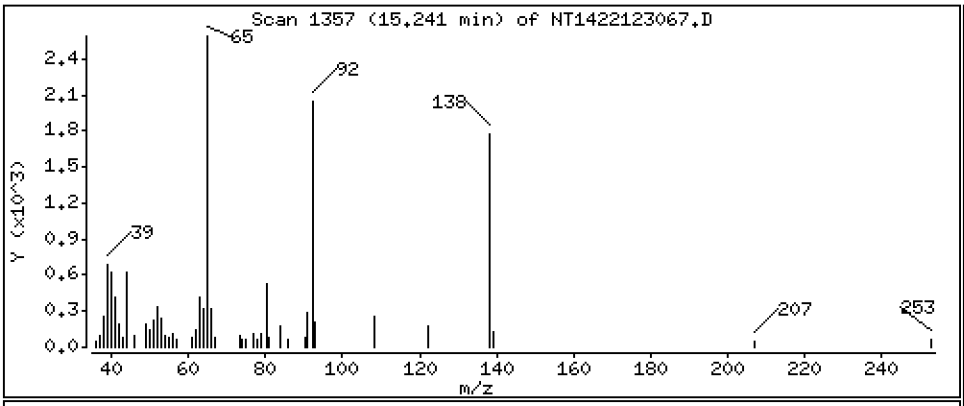
Operator: VTS

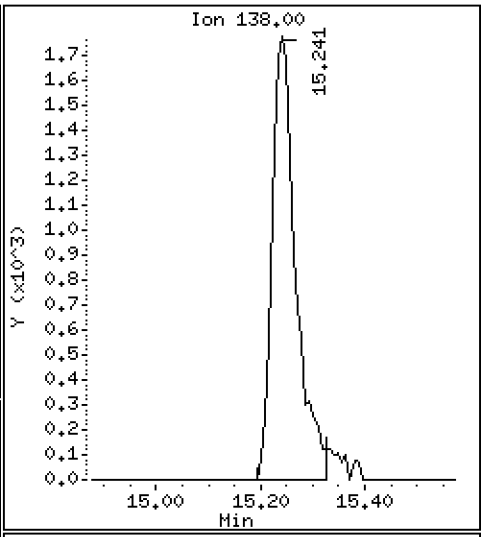
Column phase: ZB-5msi

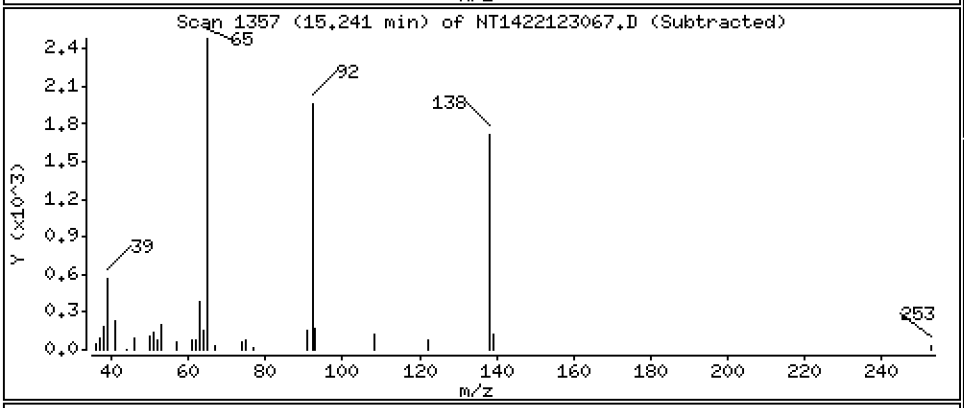
Column diameter: 0.25

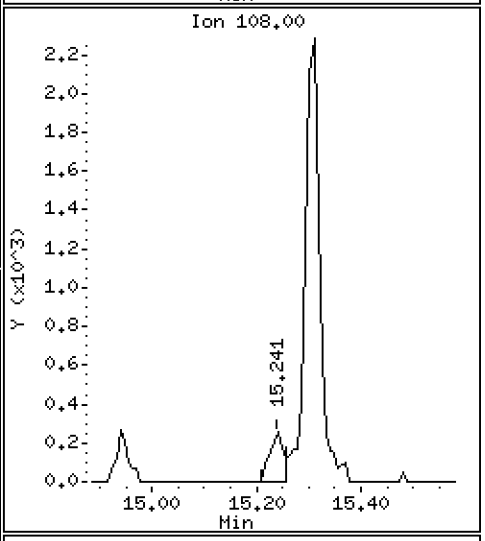
43 3-Nitroaniline

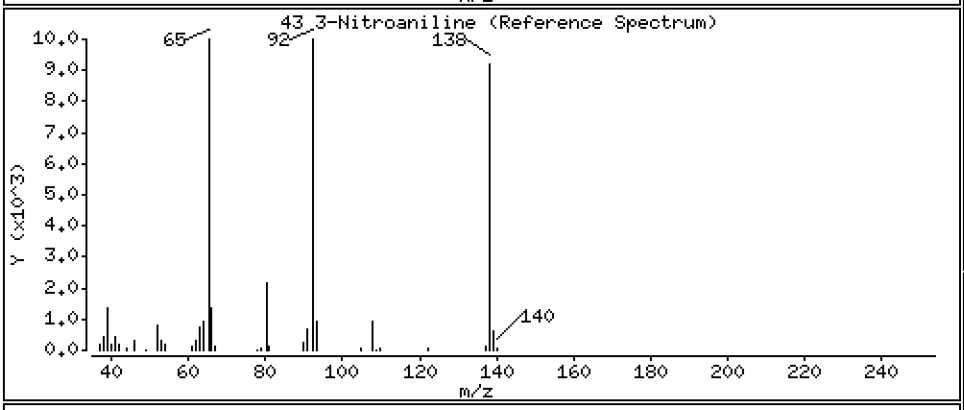
Concentration: 0.3563 ug/mL

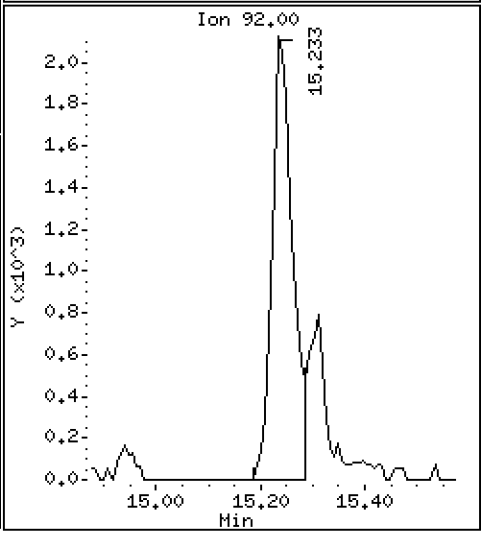


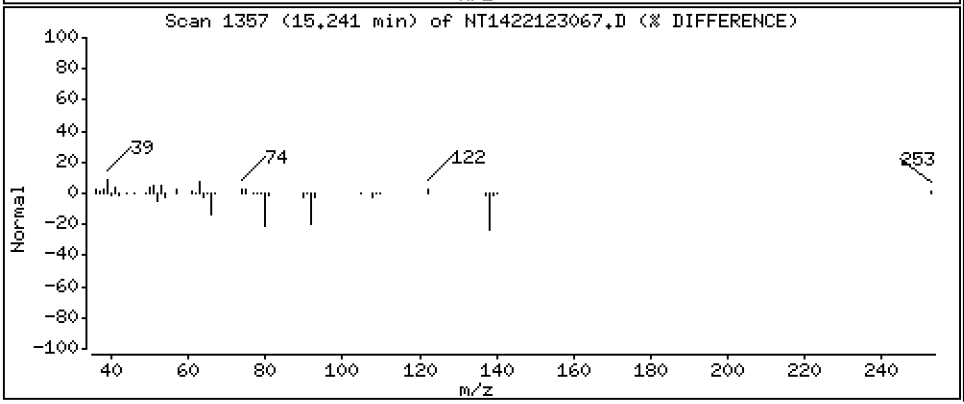












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

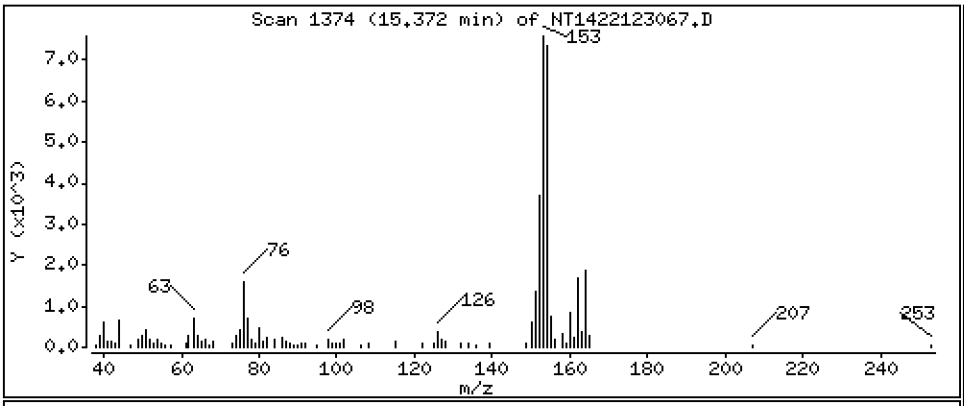
Operator: VTS

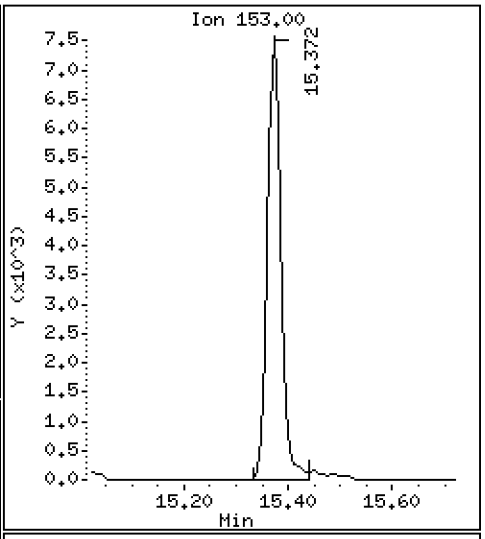
Column phase: ZB-5msi

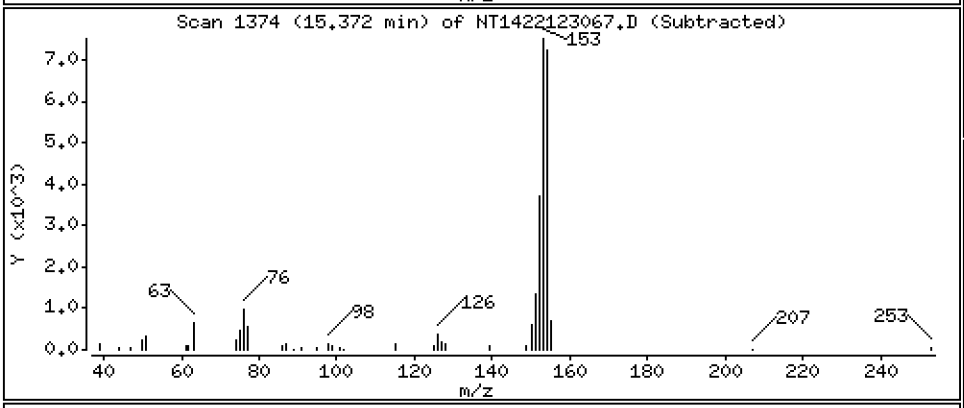
Column diameter: 0.25

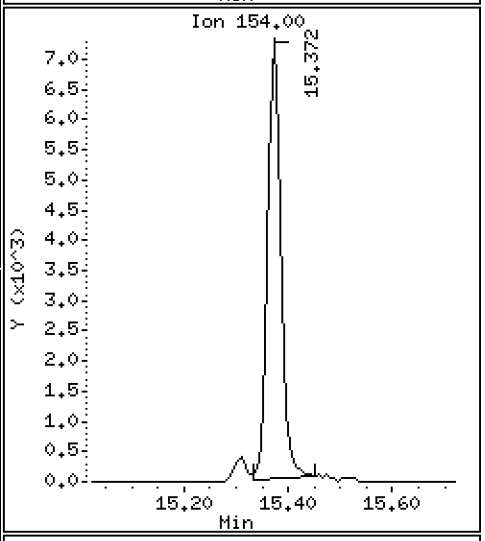
44 Acenaphthene

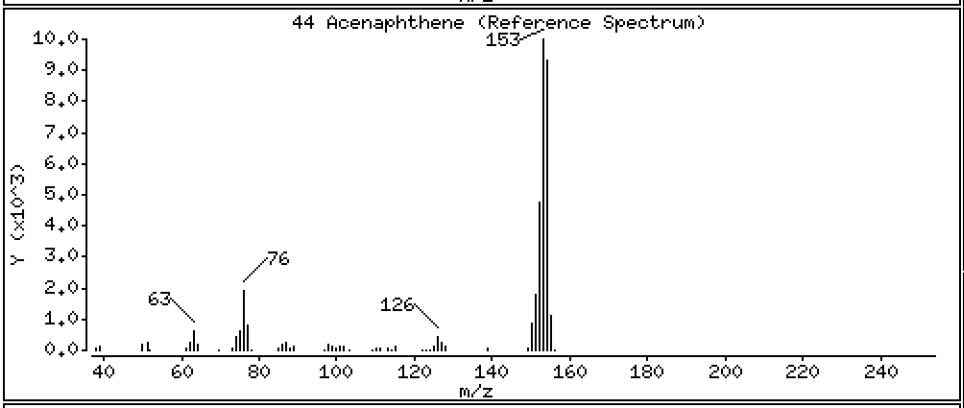
Concentration: 0.2358 ug/mL

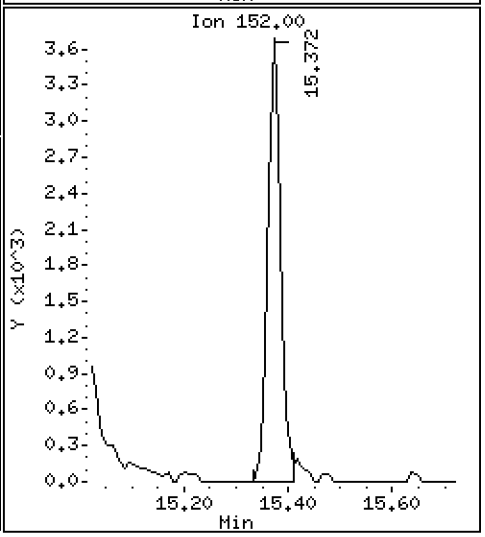


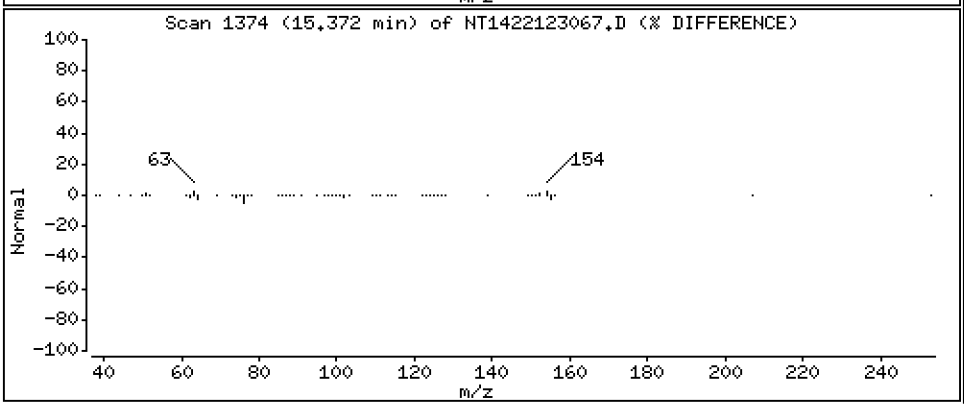












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

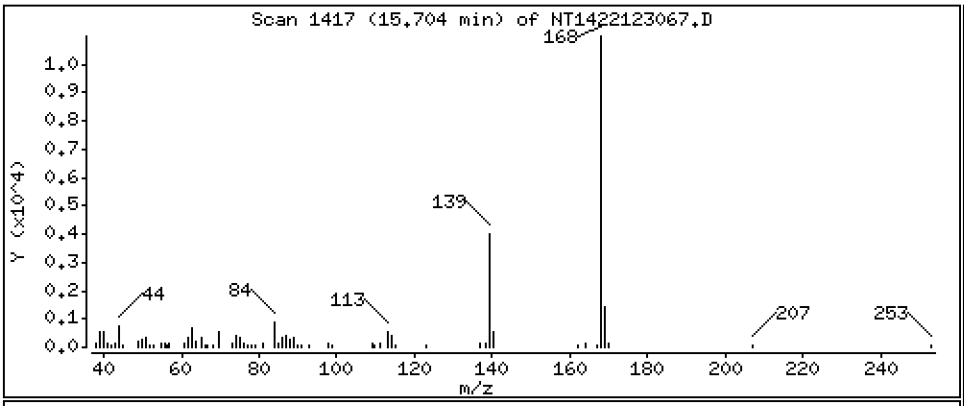
Operator: VTS

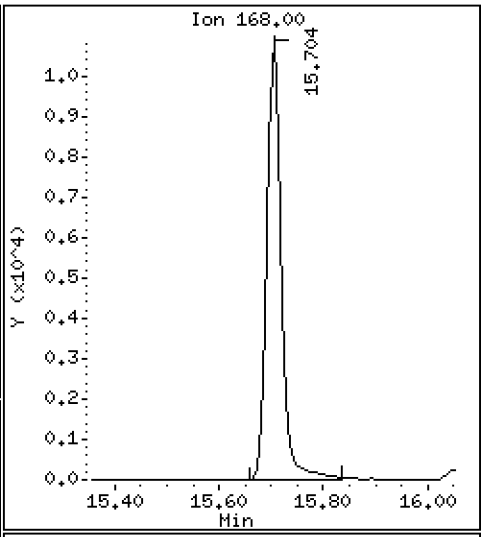
Column phase: ZB-5msi

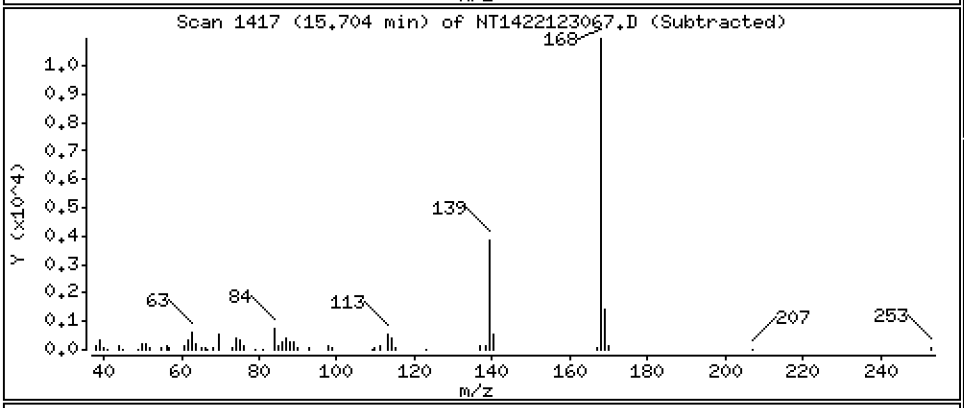
Column diameter: 0.25

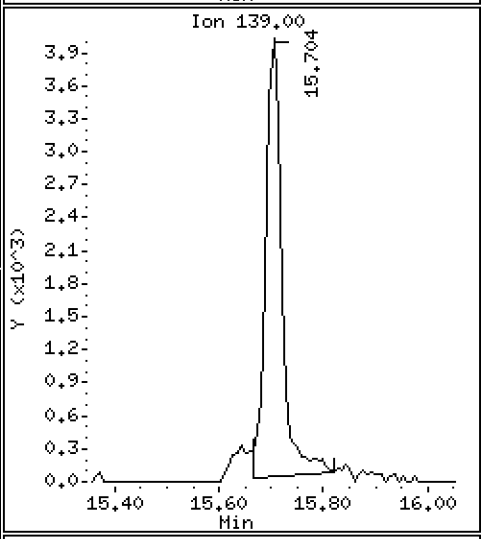
46 Dibenzofuran

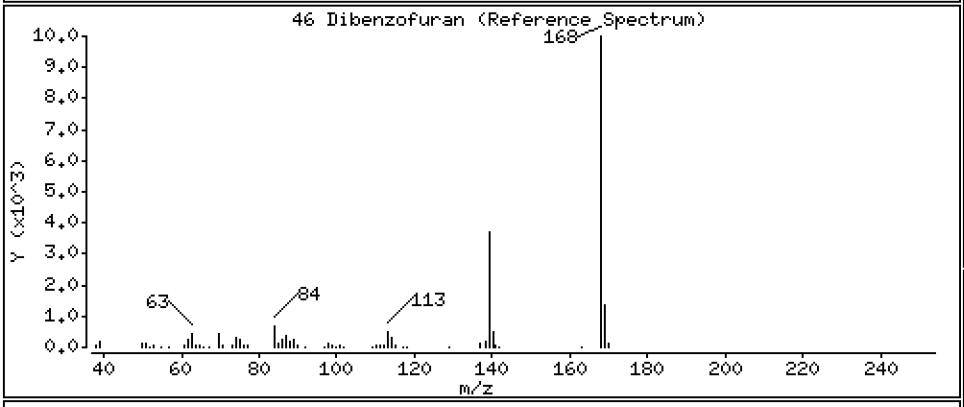
Concentration: 0.2405 ug/mL

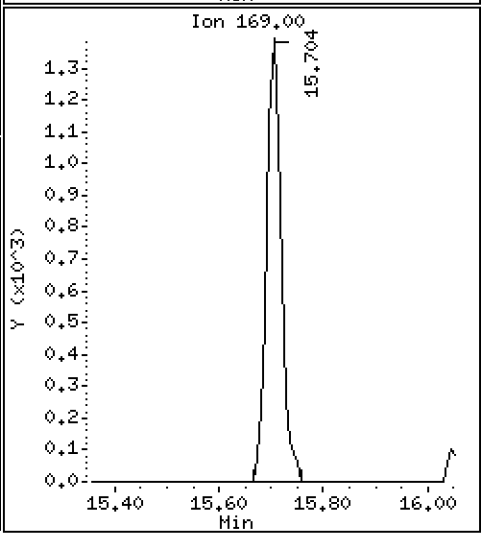


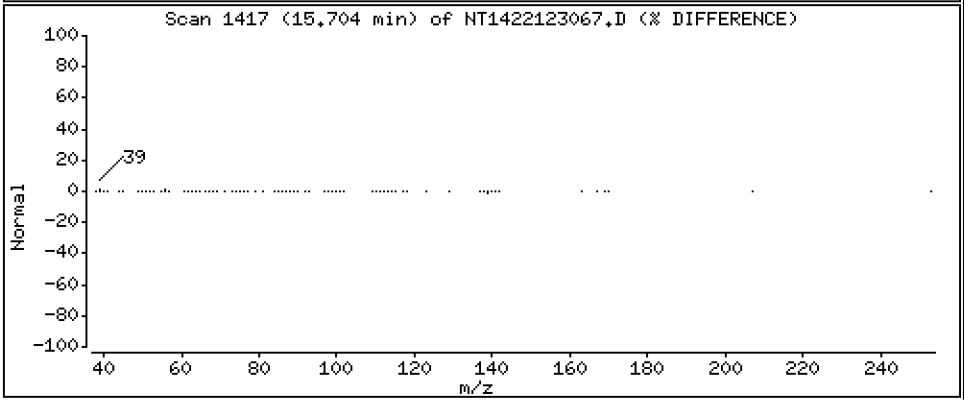












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

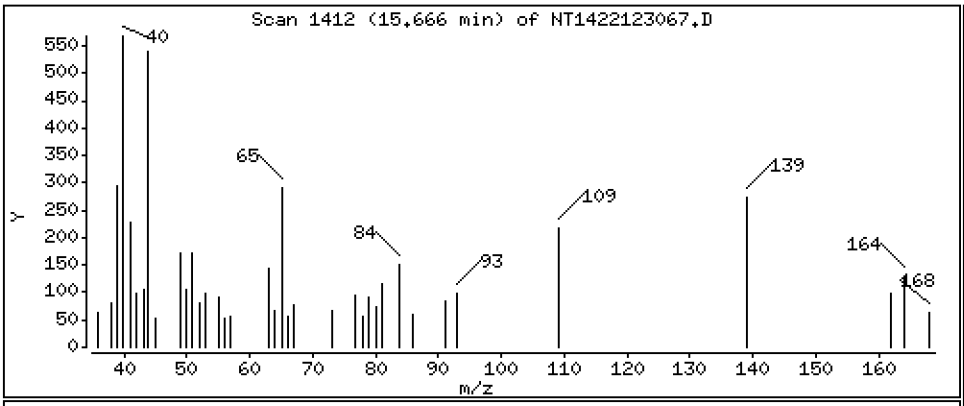
Operator: VTS

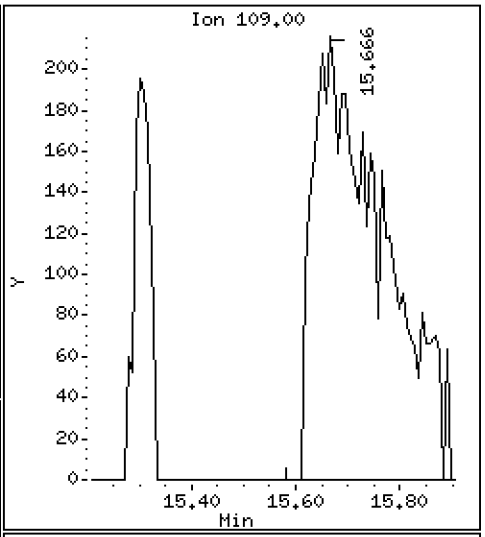
Column phase: ZB-5msi

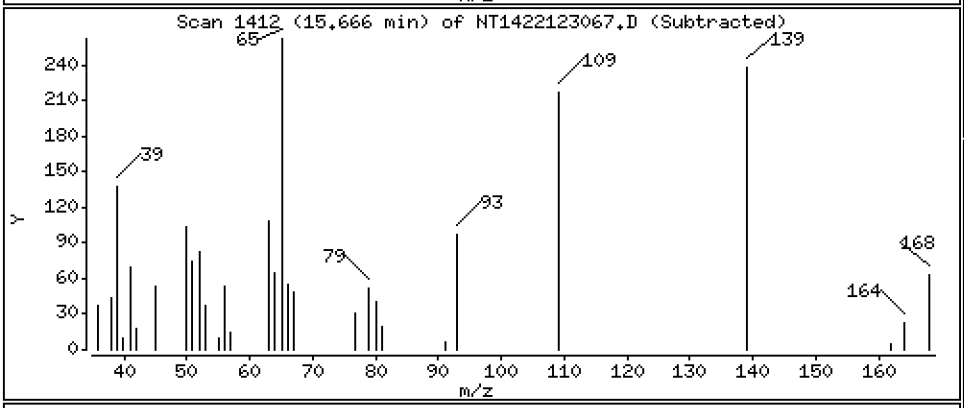
Column diameter: 0.25

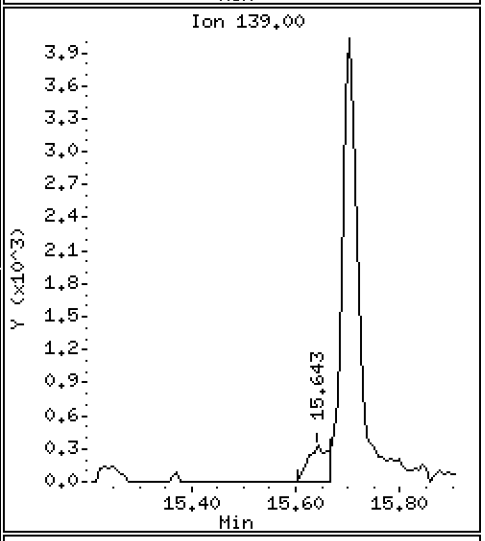
47 4-Nitrophenol

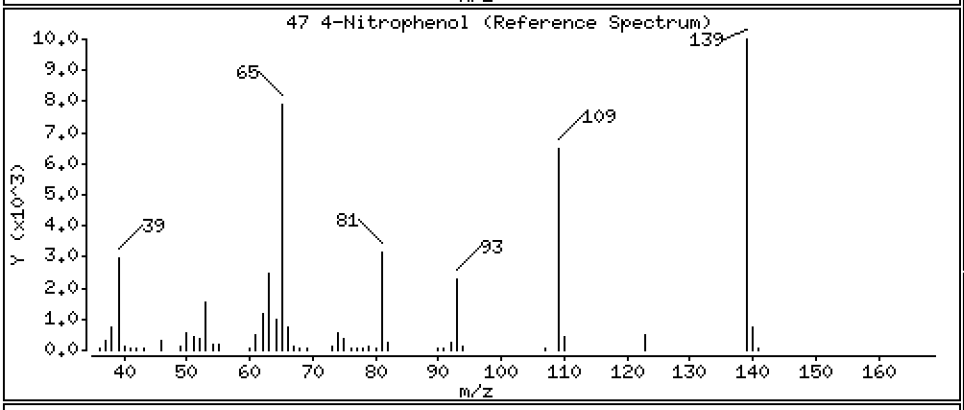
Concentration: 0.2680 ug/mL

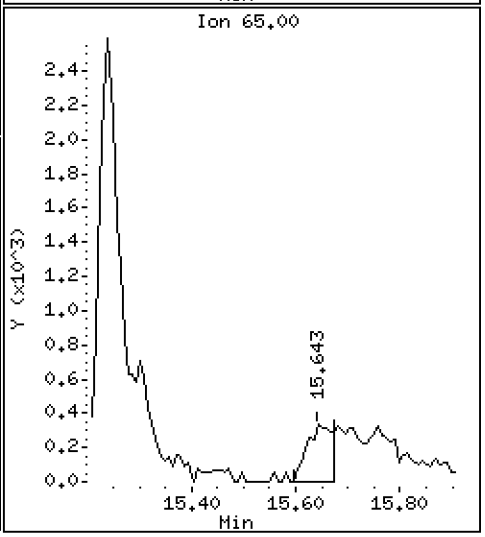


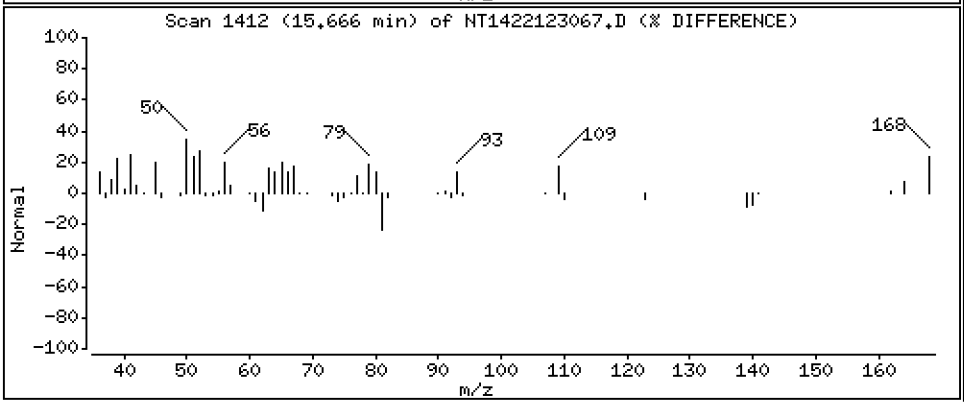












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123067.D

Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

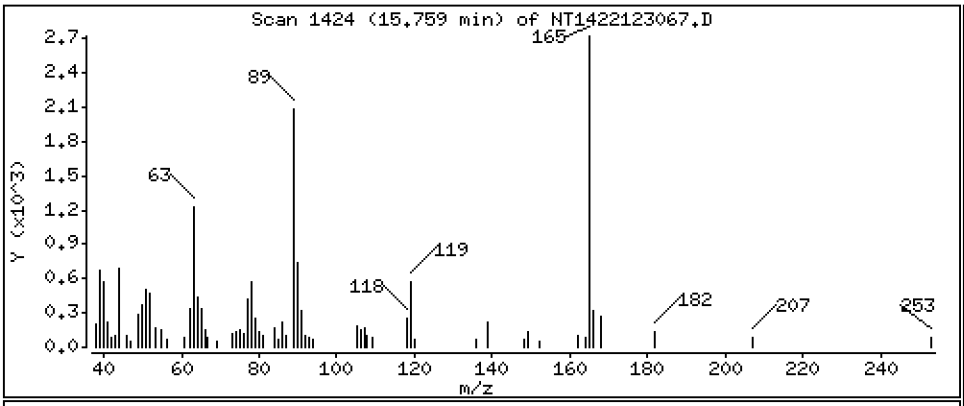
Operator: VTS

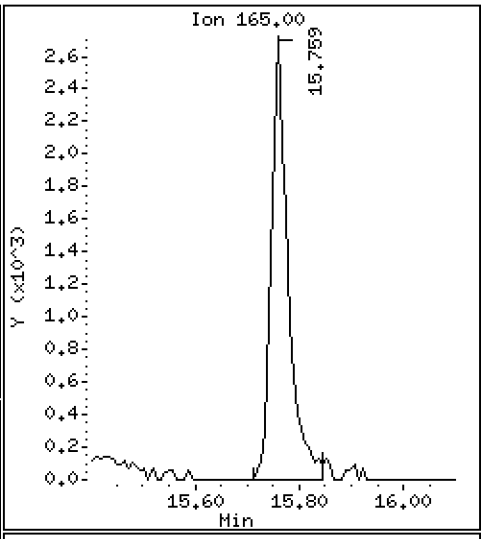
Column phase: ZB-5msi

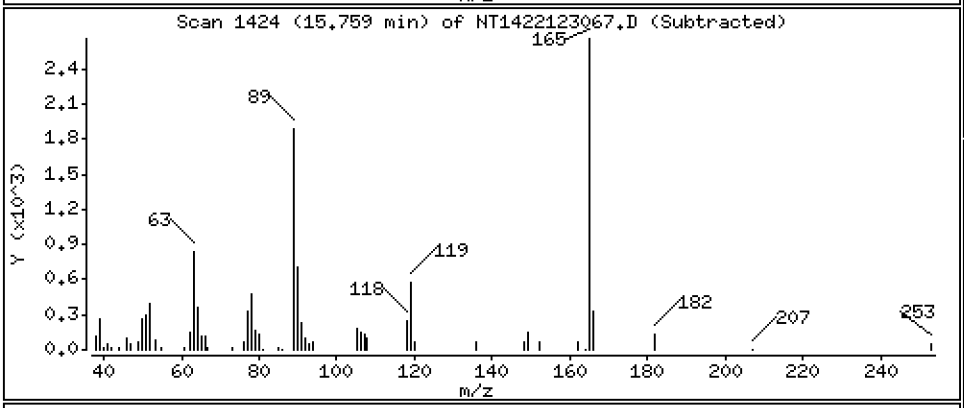
Column diameter: 0.25

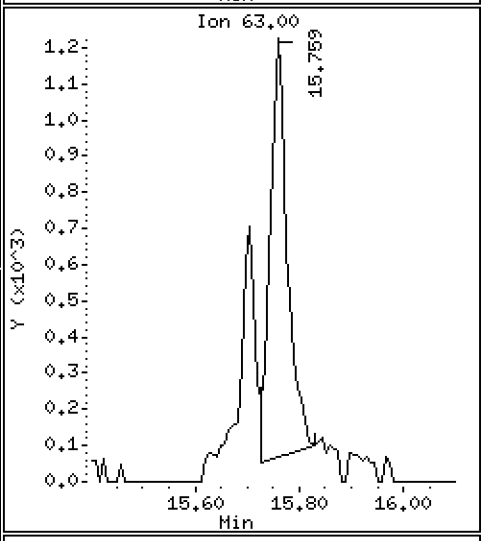
48 2,4-Dinitrotoluene

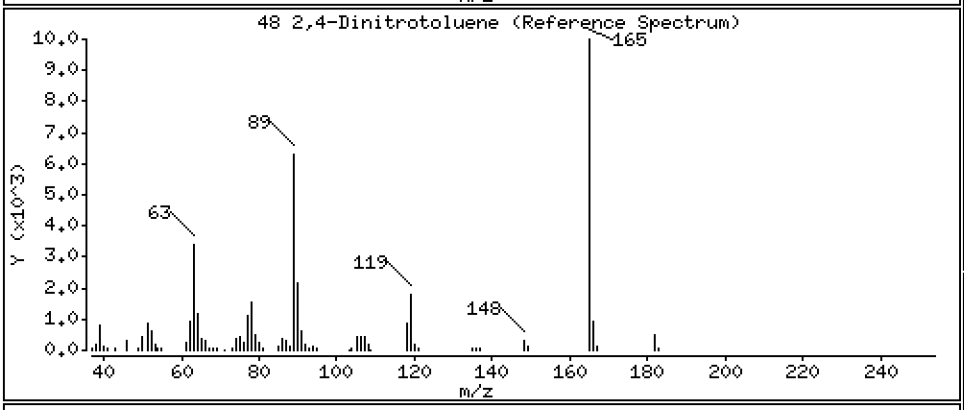
Concentration: 0.3389 ug/mL

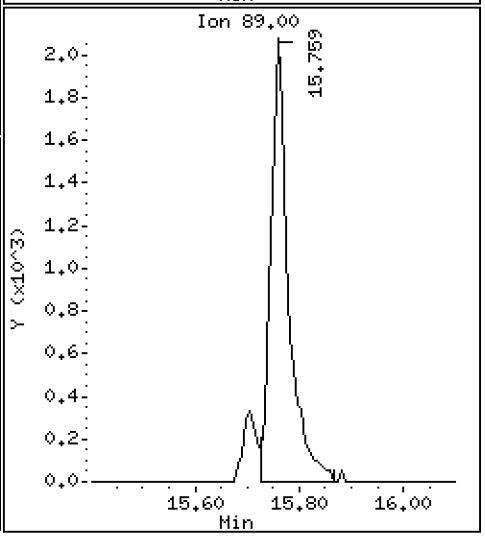


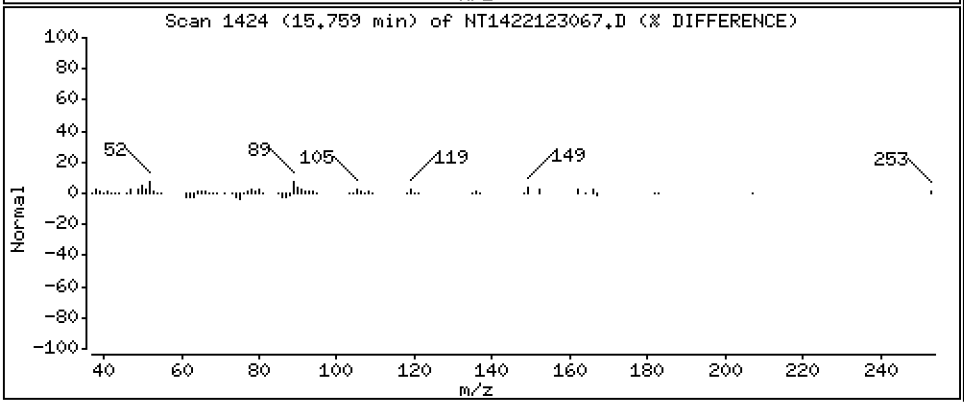












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

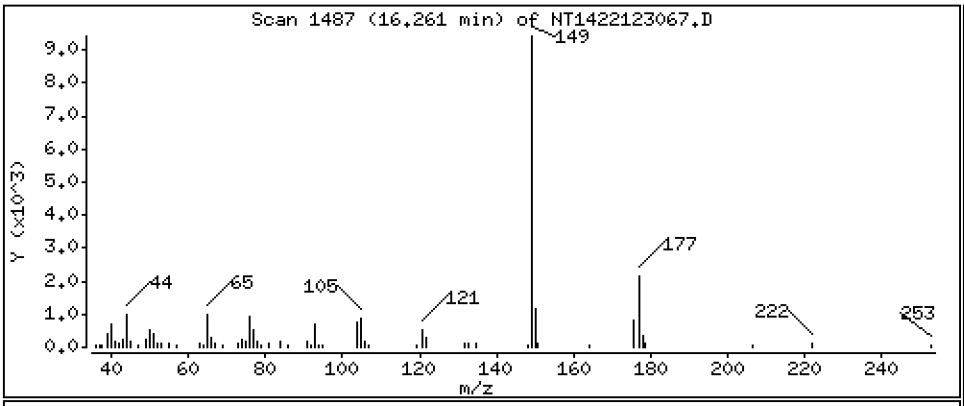
Operator: VTS

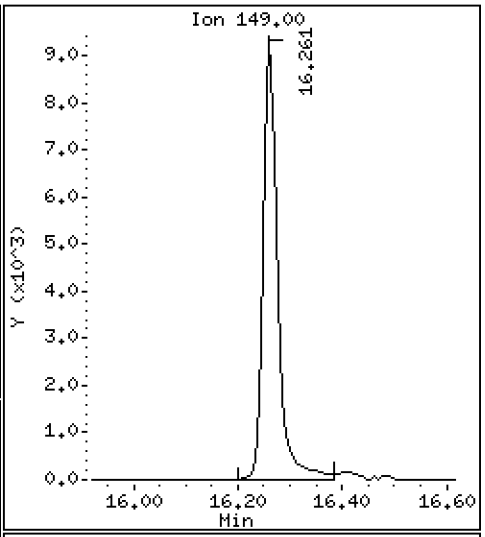
Column phase: ZB-5msi

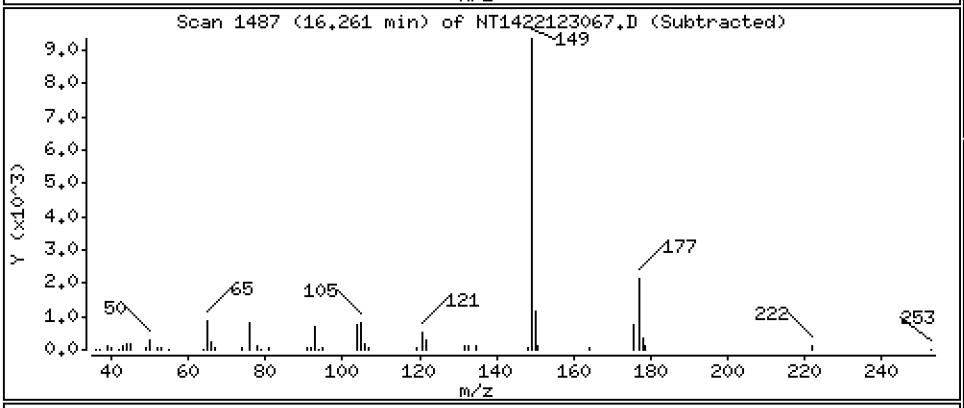
Column diameter: 0.25

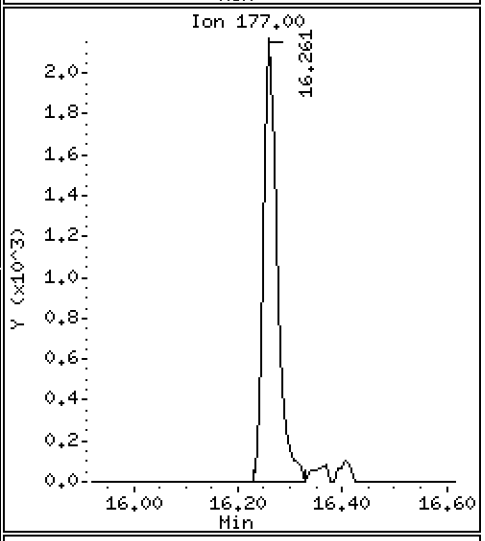
50 Diethylphthalate

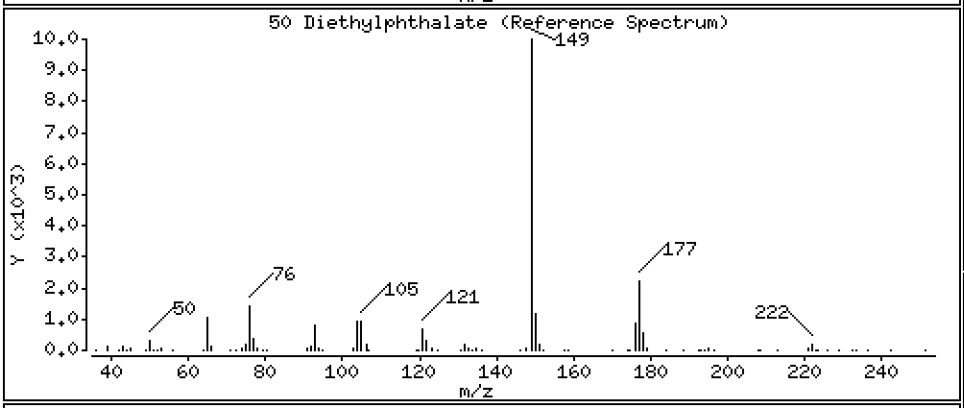
Concentration: 0.2595 ug/mL

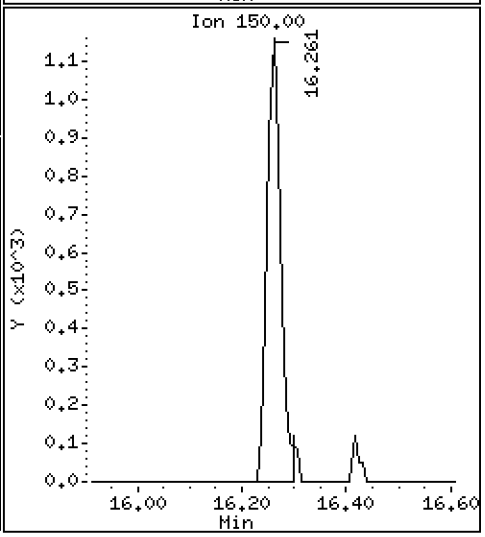


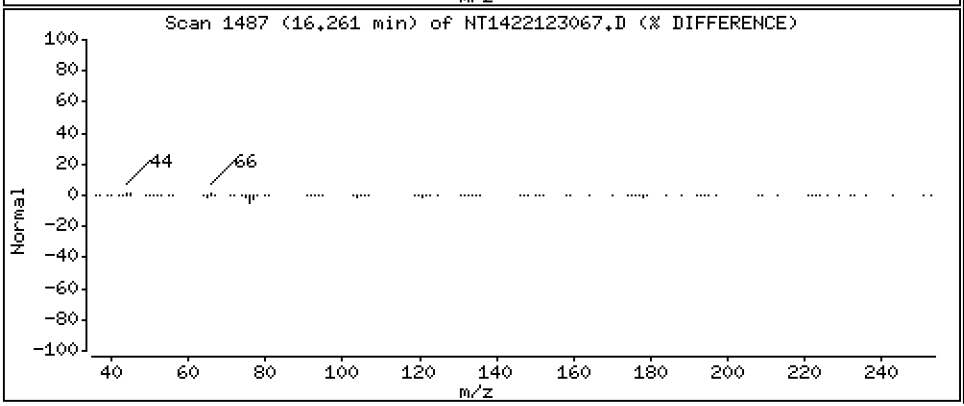












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

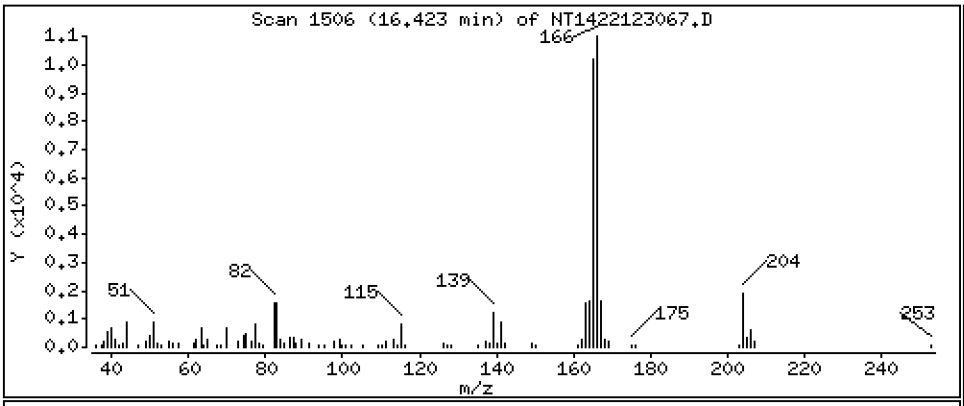
Operator: VTS

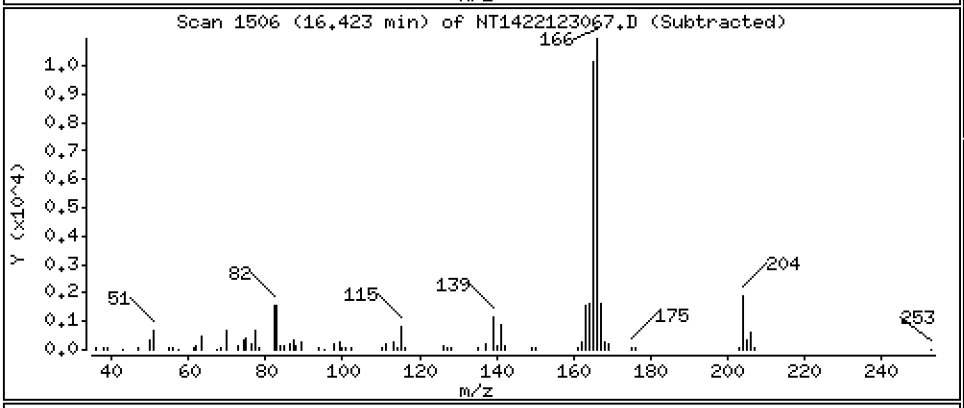
Column phase: ZB-5msi

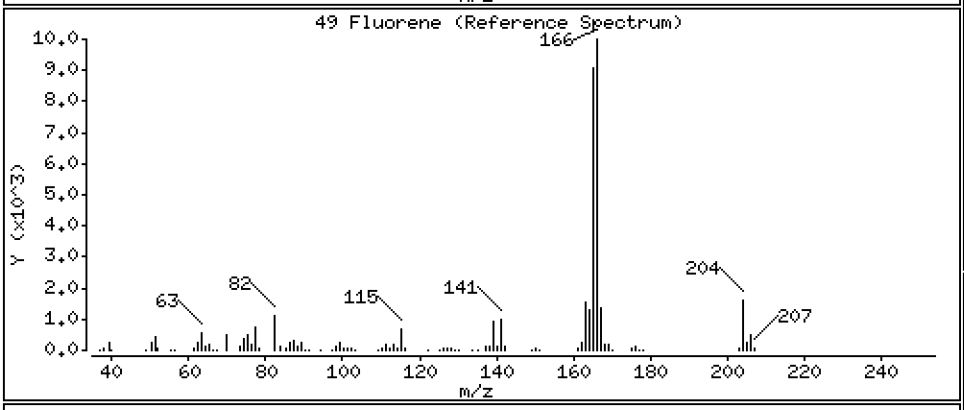
Column diameter: 0.25

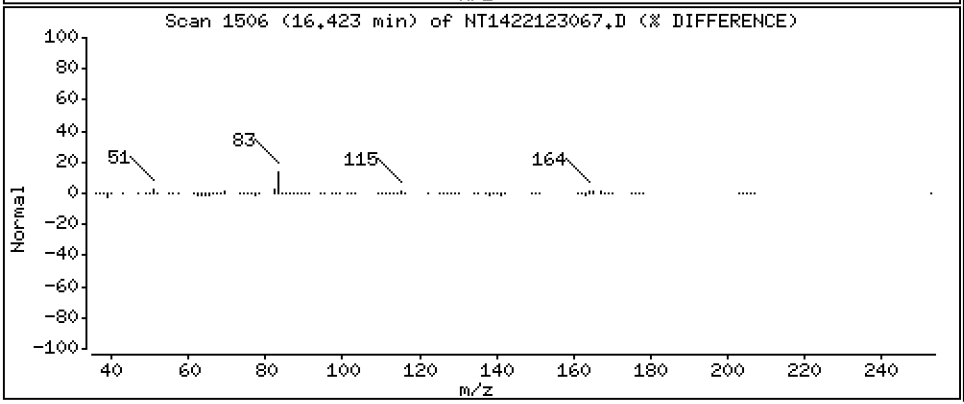
49 Fluorene

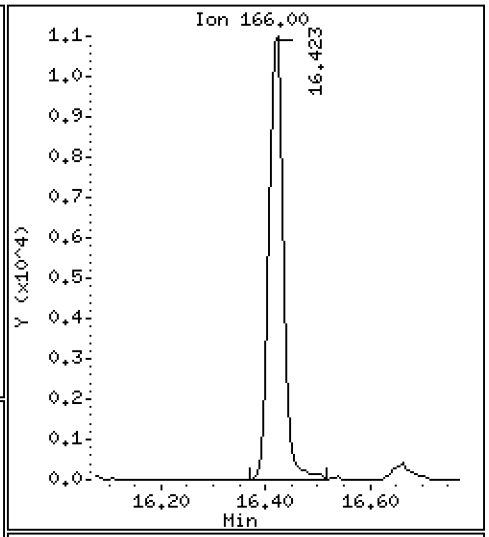
Concentration: 0.2334 ug/mL

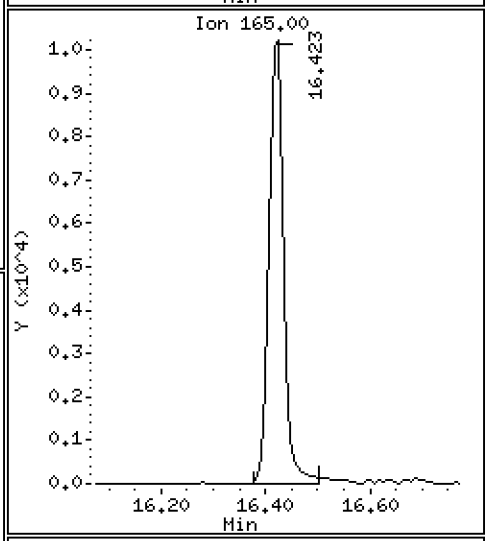


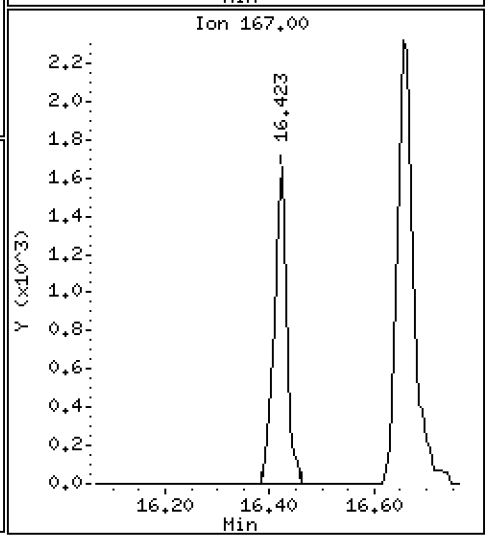












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

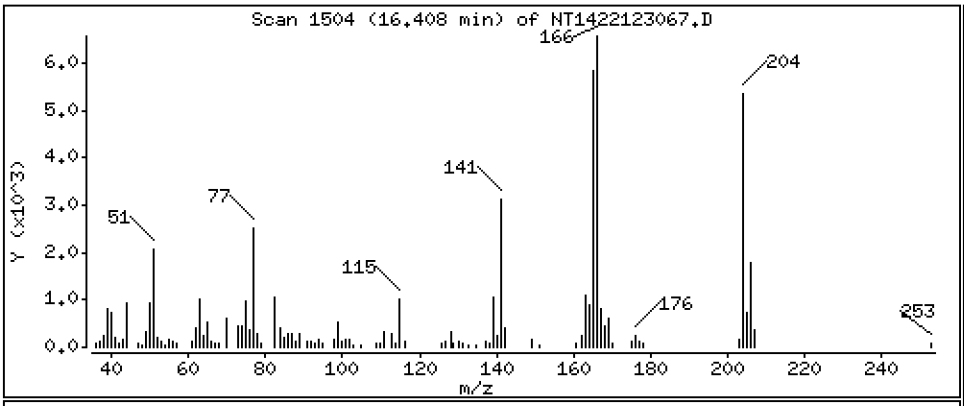
Operator: VTS

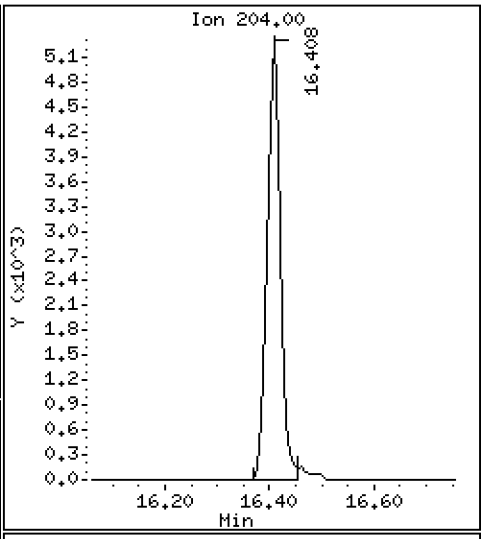
Column phase: ZB-5msi

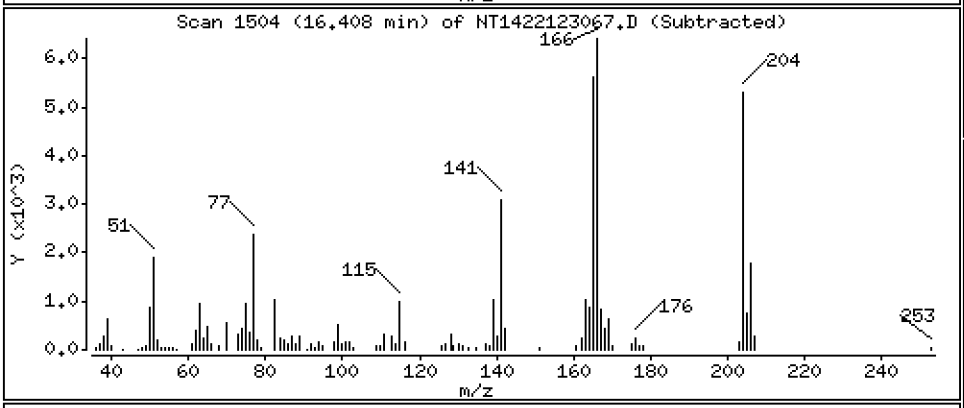
Column diameter: 0.25

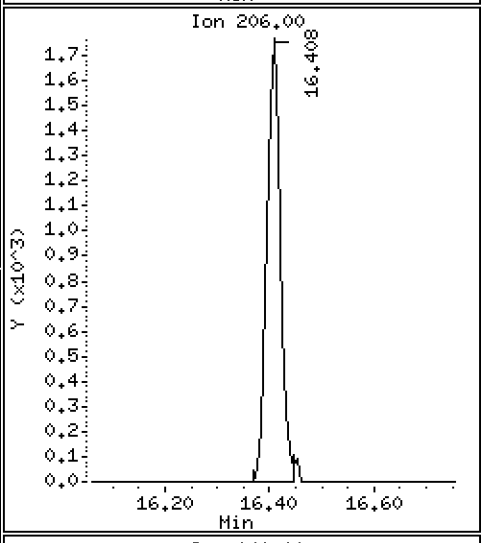
51 4-Chlorophenyl-phenylether

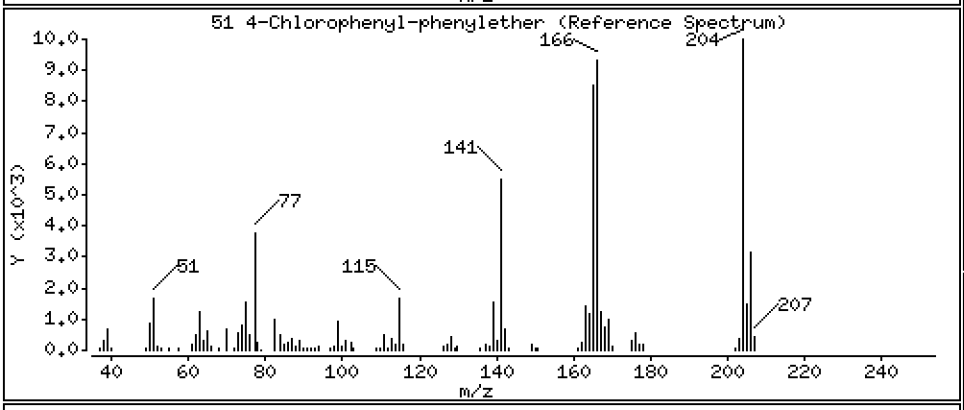
Concentration: 0.2115 ug/mL

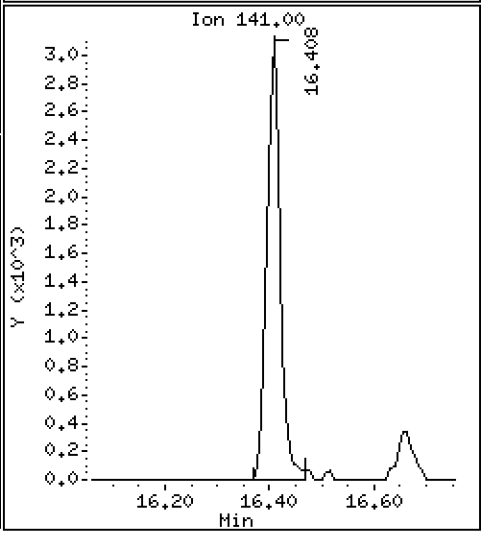


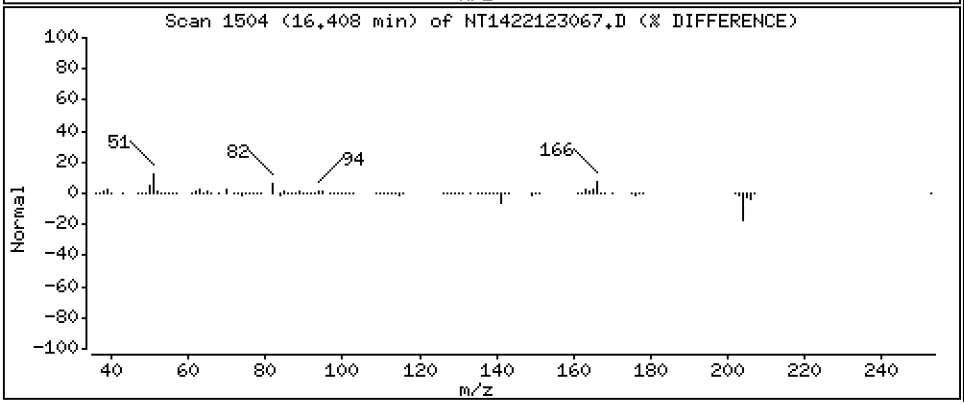












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

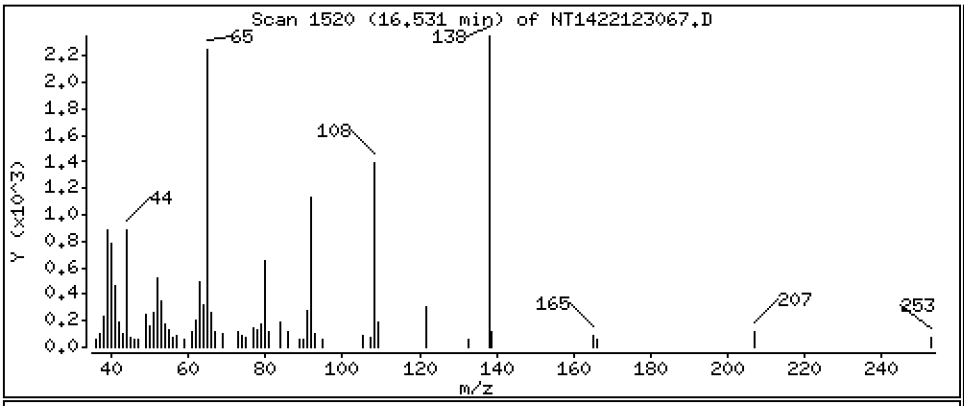
Operator: VTS

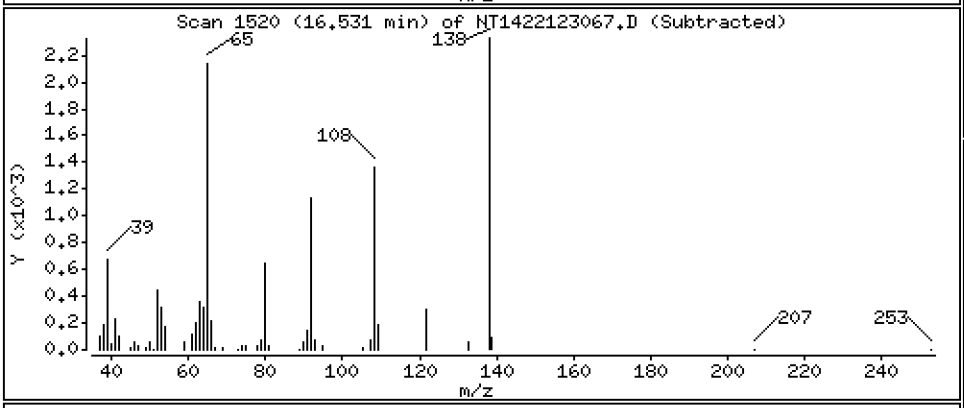
Column phase: ZB-5msi

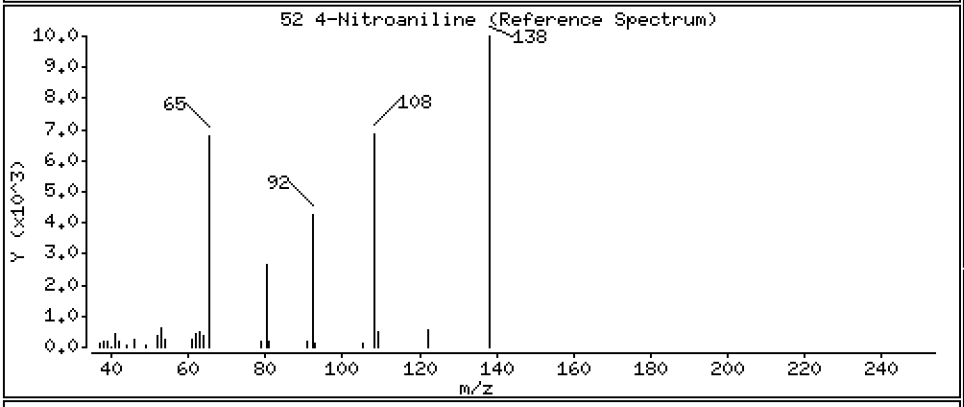
Column diameter: 0.25

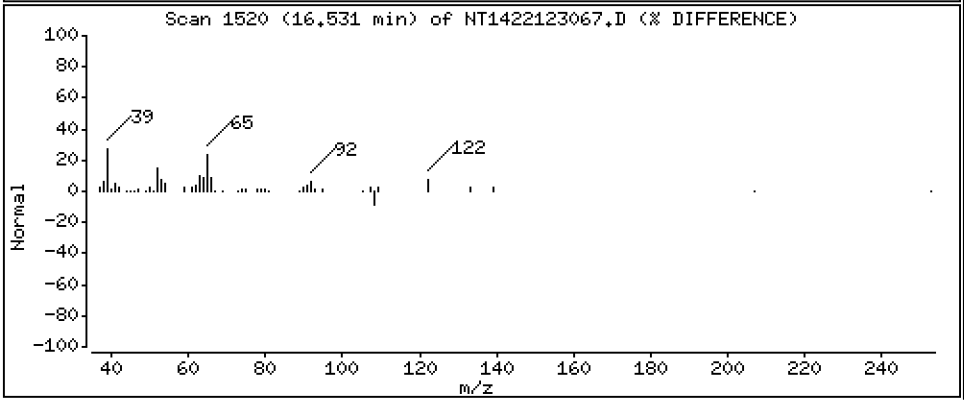
52 4-Nitroaniline

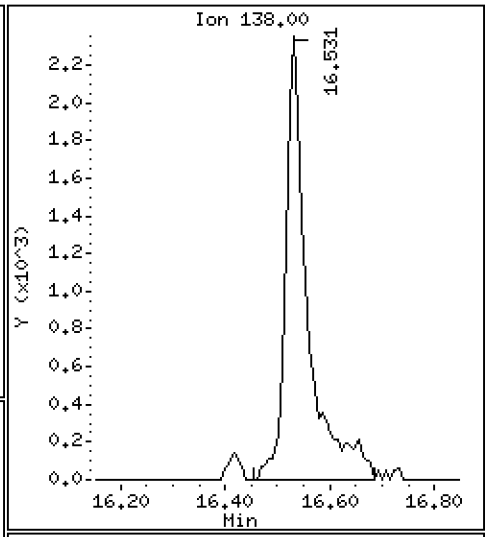
Concentration: 0.3738 ug/mL

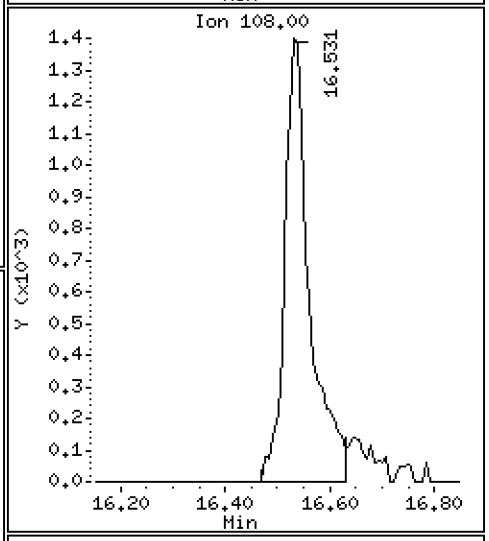


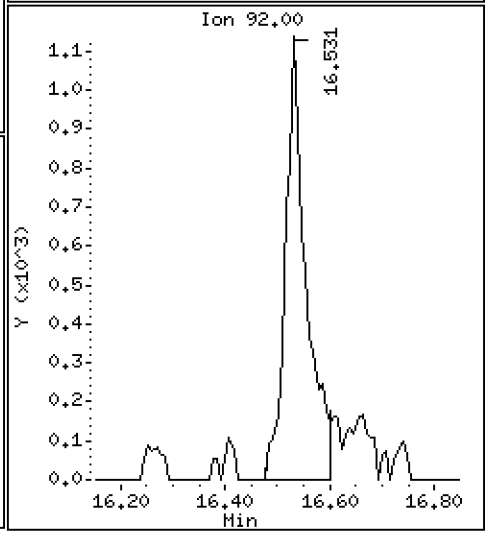












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

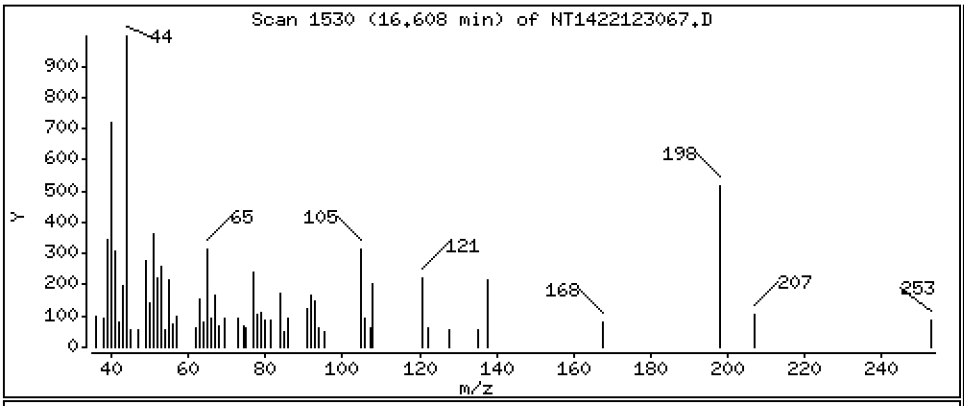
Operator: VTS

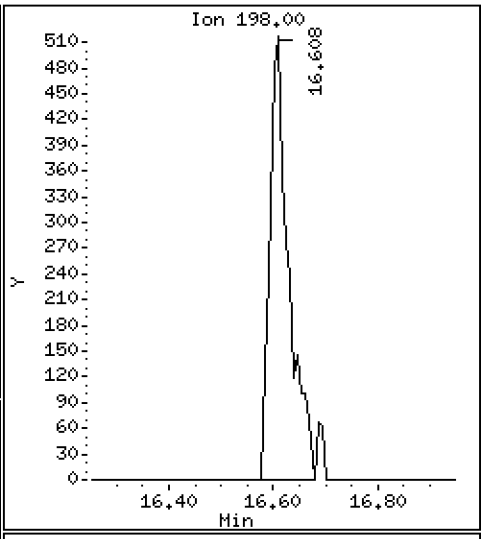
Column phase: ZB-5msi

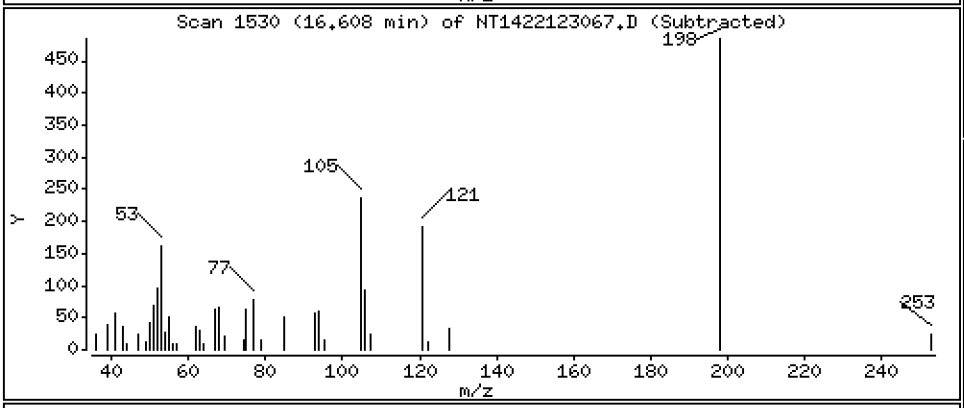
Column diameter: 0.25

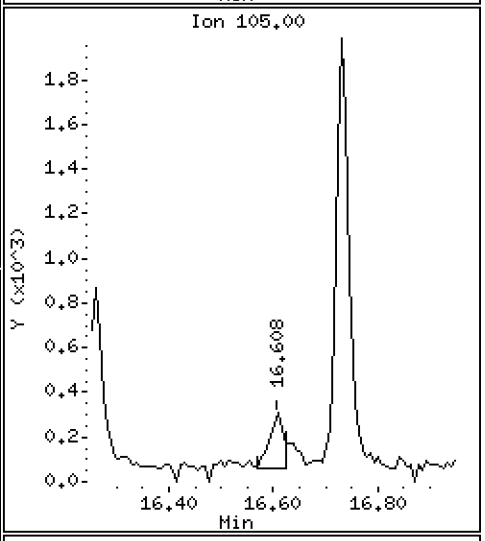
53 4,6-Dinitro-2-methylphenol

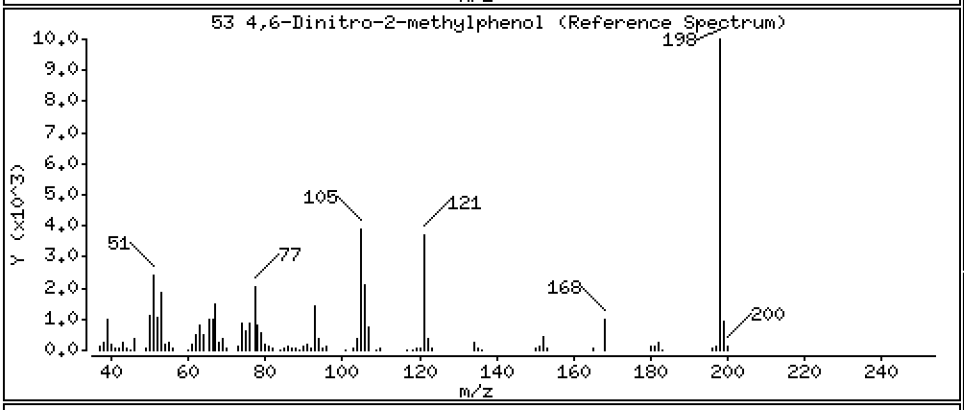
Concentration: 0.09261 ug/mL

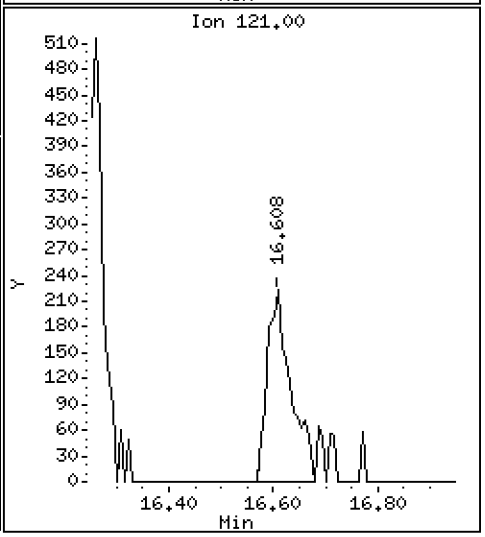


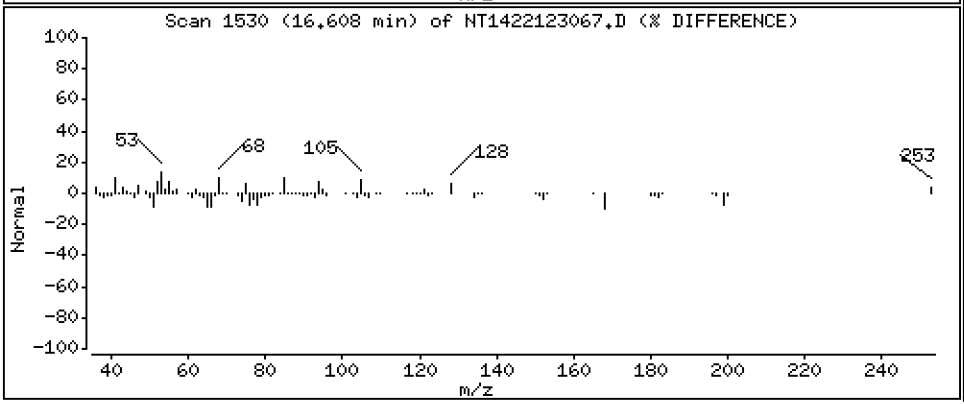












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

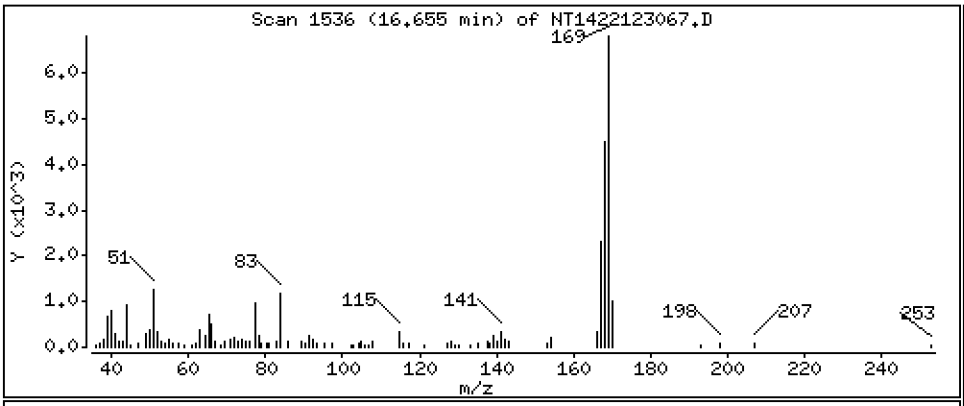
Operator: VTS

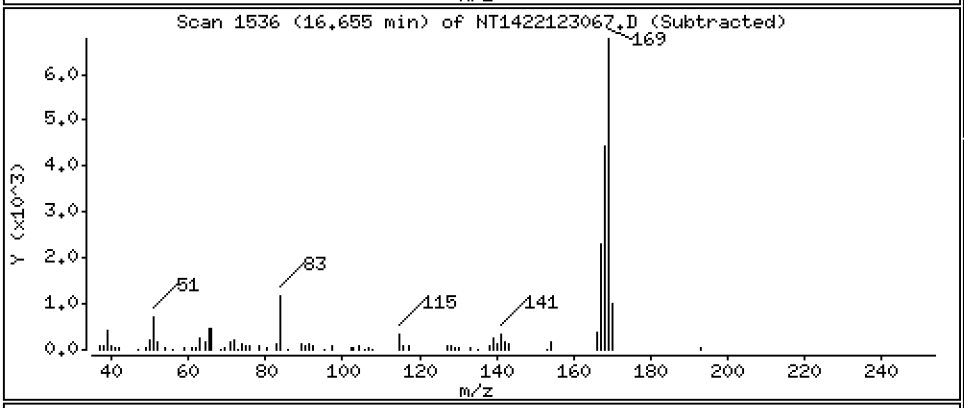
Column phase: ZB-5msi

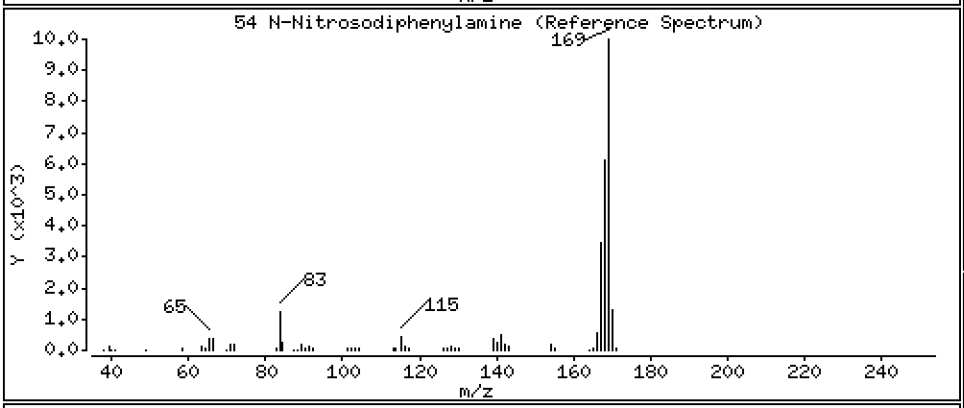
Column diameter: 0.25

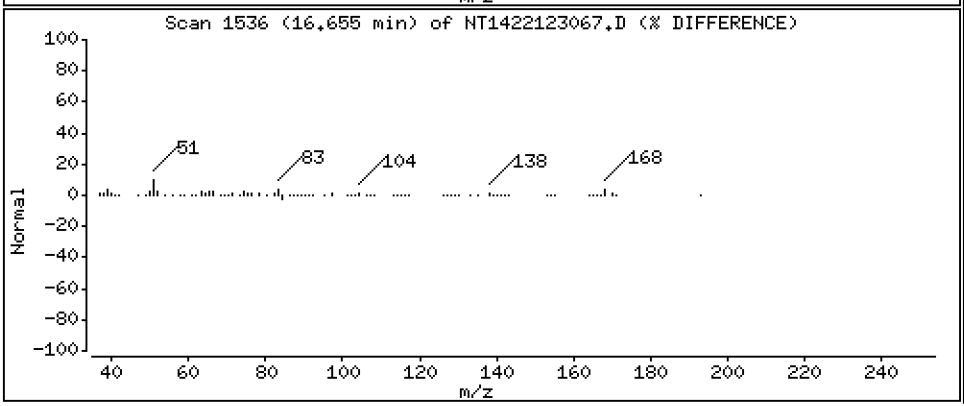
54 N-Nitrosodiphenylamine

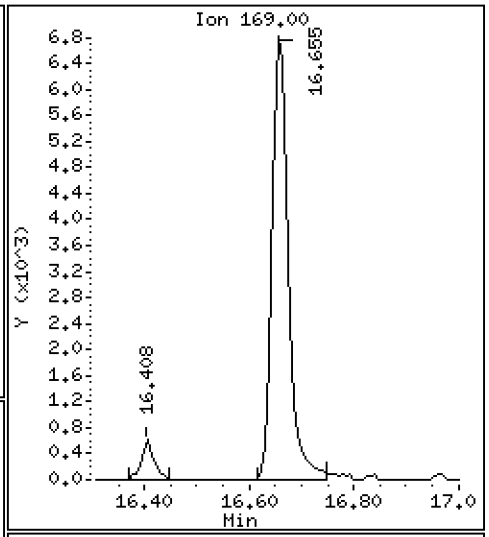
Concentration: 0.2509 ug/mL

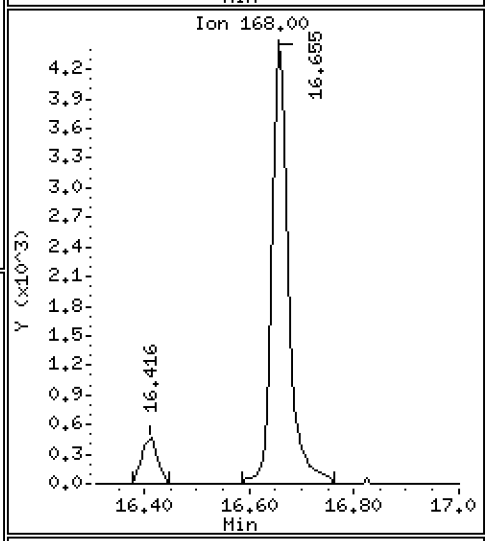


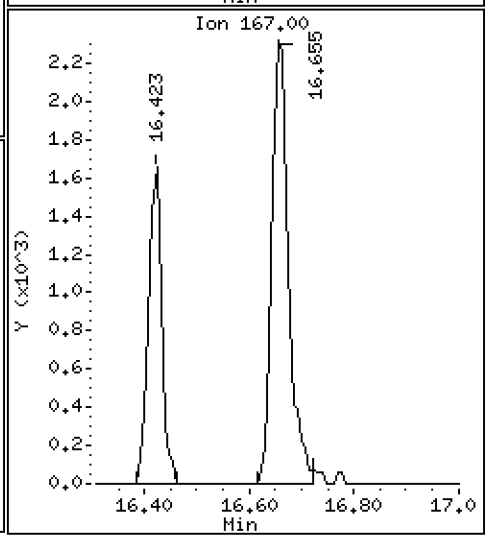












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

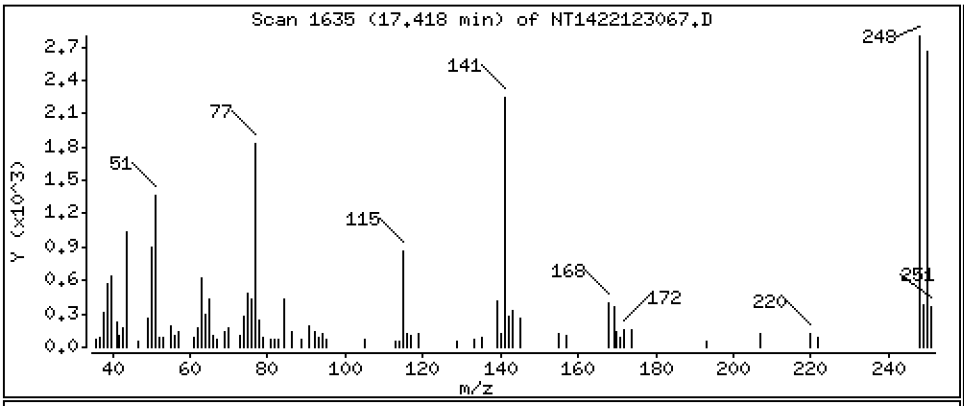
Operator: VTS

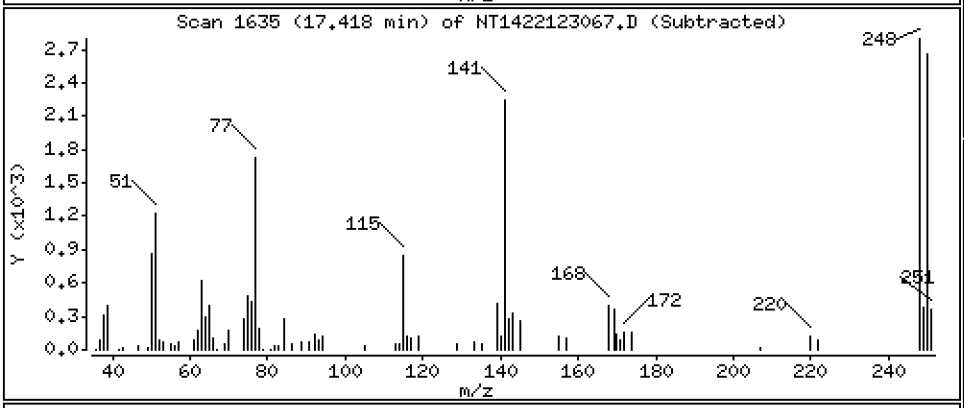
Column phase: ZB-5msi

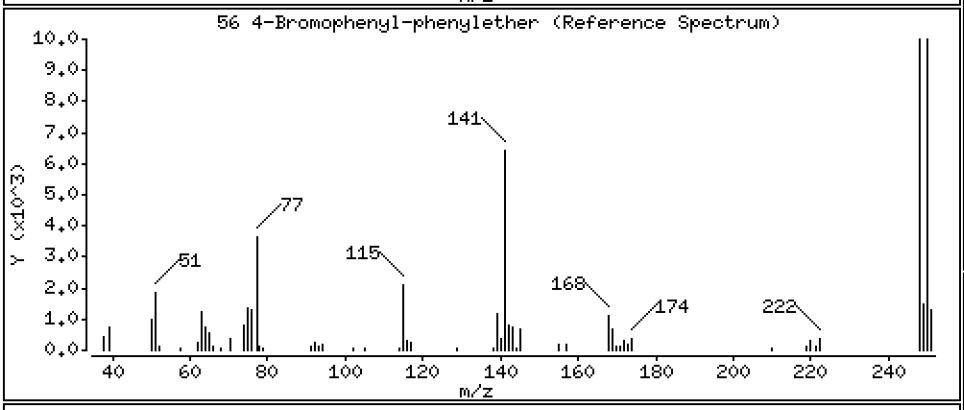
Column diameter: 0.25

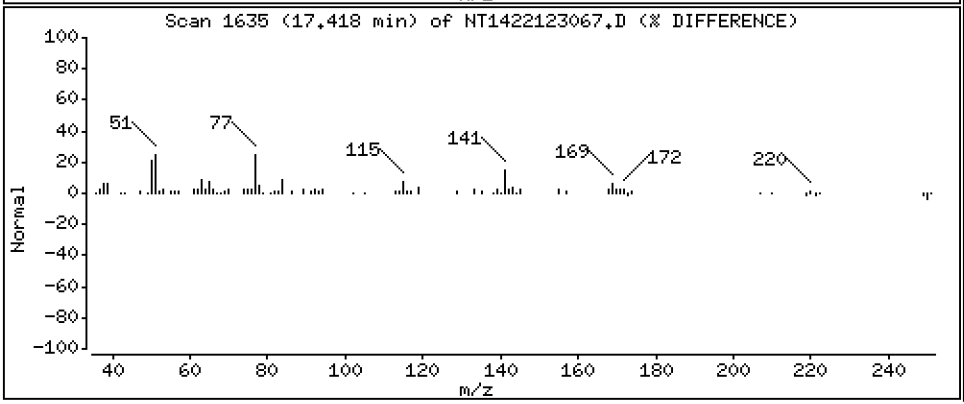
56 4-Bromophenyl-phenylether

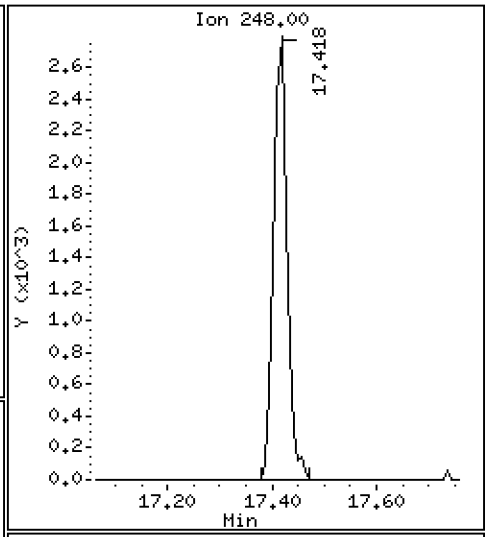
Concentration: 0.2232 ug/mL

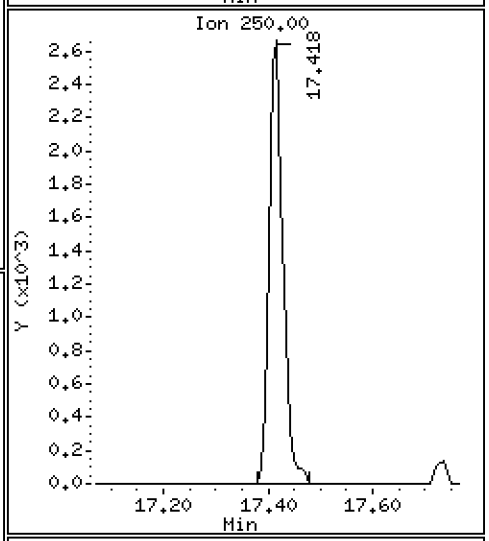


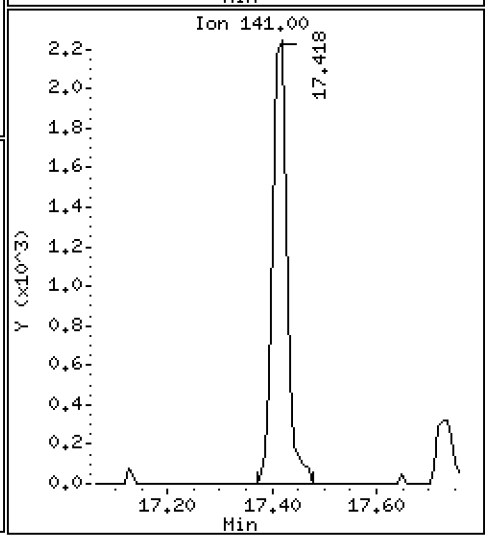












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

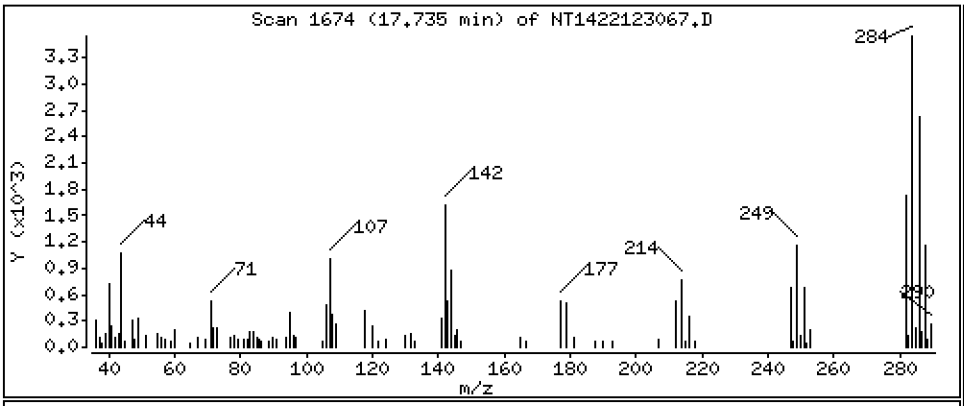
Operator: VTS

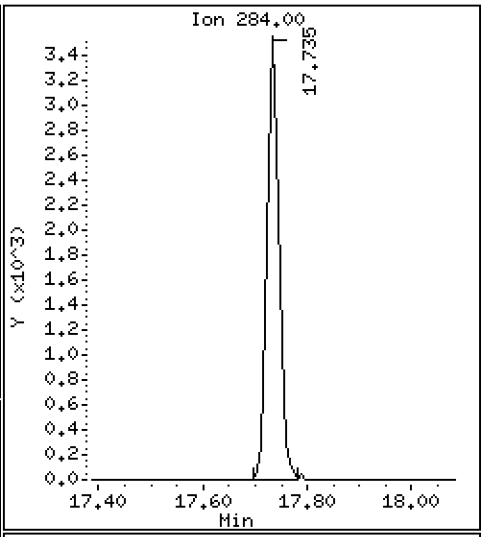
Column phase: ZB-5msi

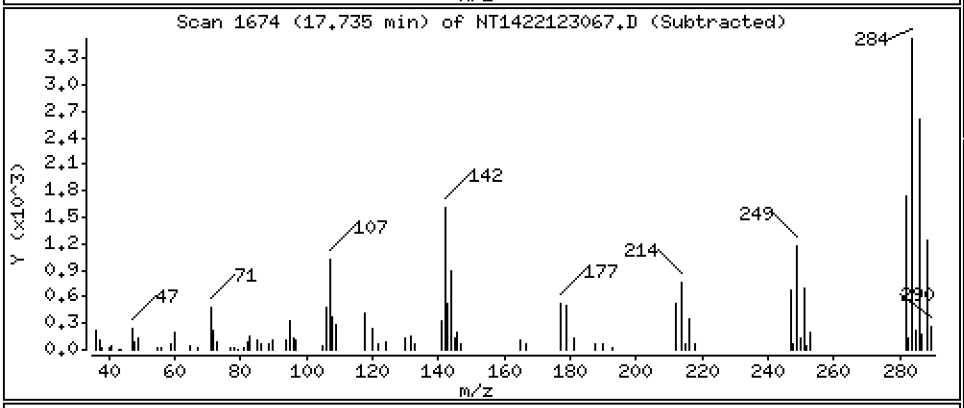
Column diameter: 0.25

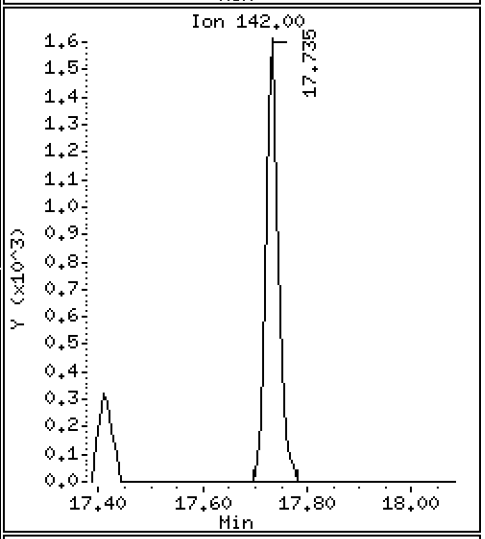
57 Hexachlorobenzene

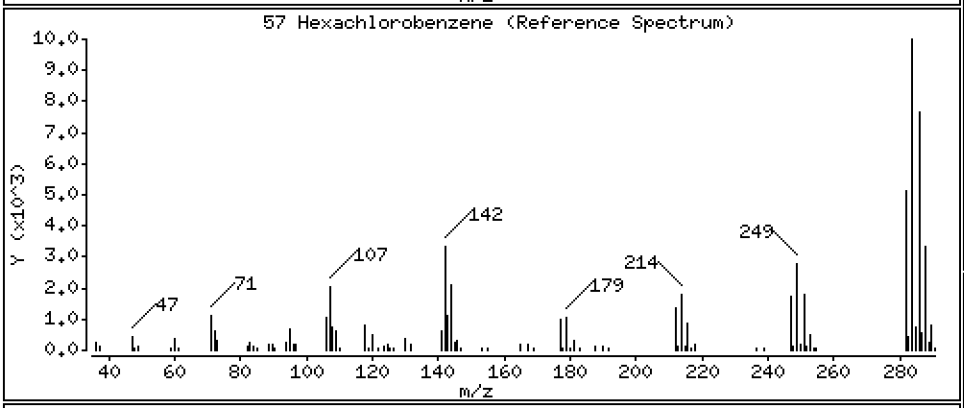
Concentration: 0.2368 ug/mL

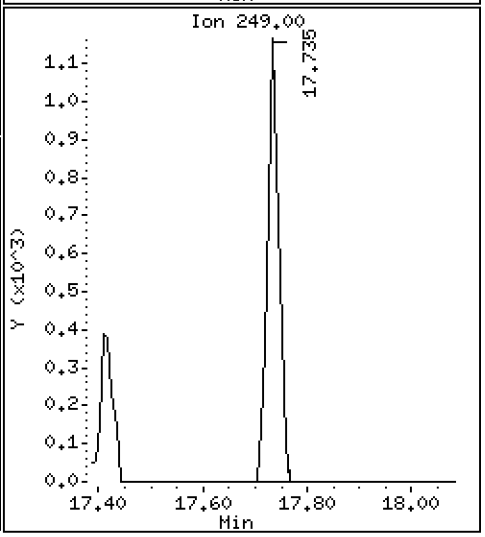


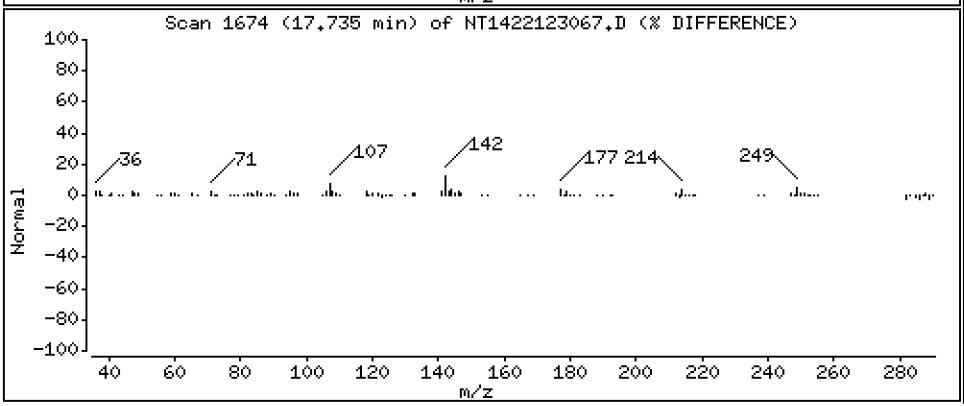












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

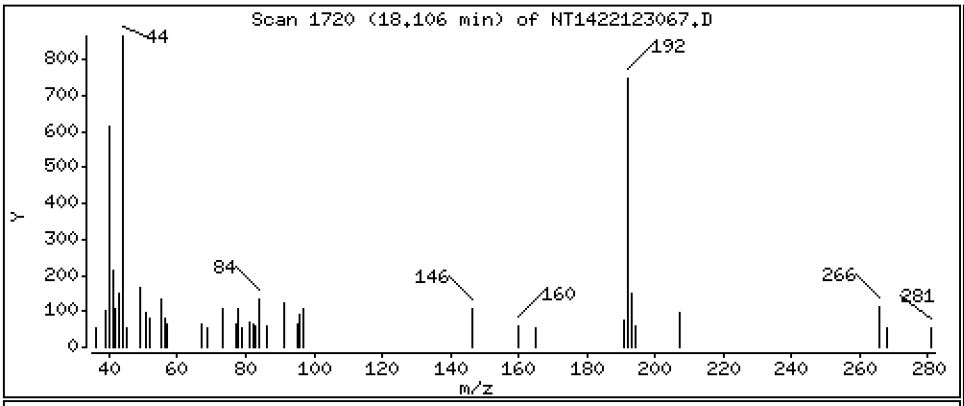
Operator: VTS

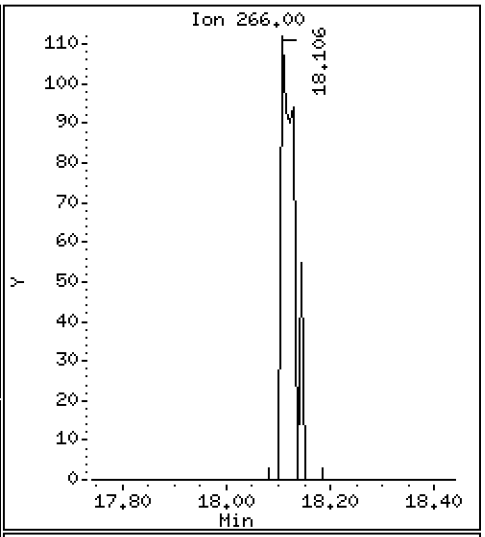
Column phase: ZB-5msi

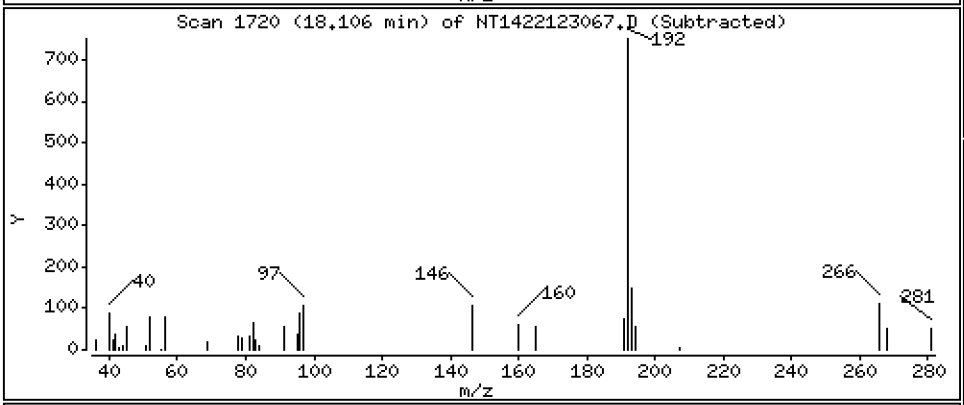
Column diameter: 0.25

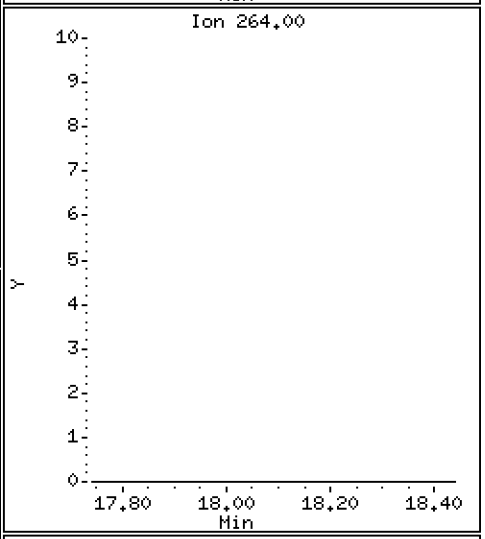
58 Pentachlorophenol

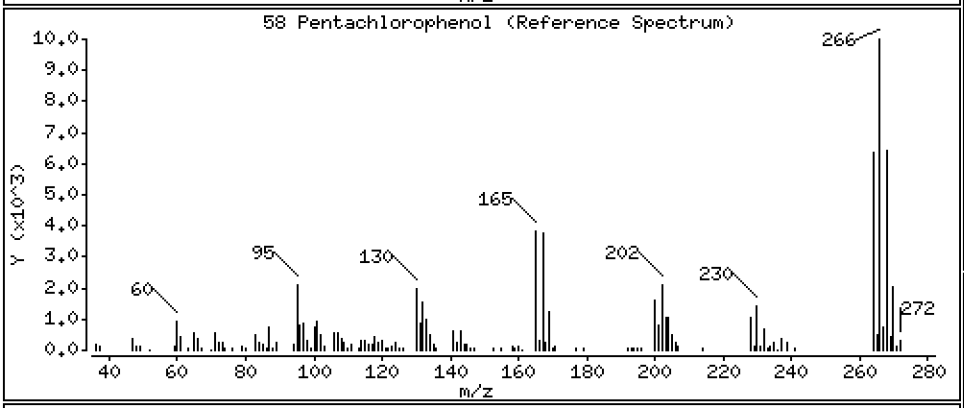
Concentration: 0.02024 ug/mL

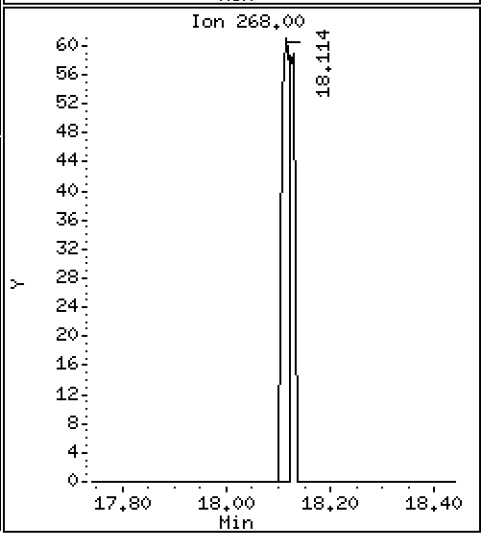


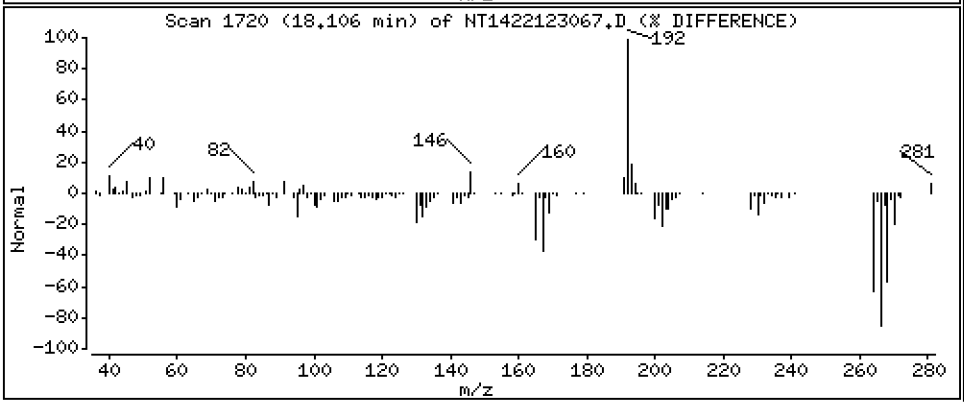












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

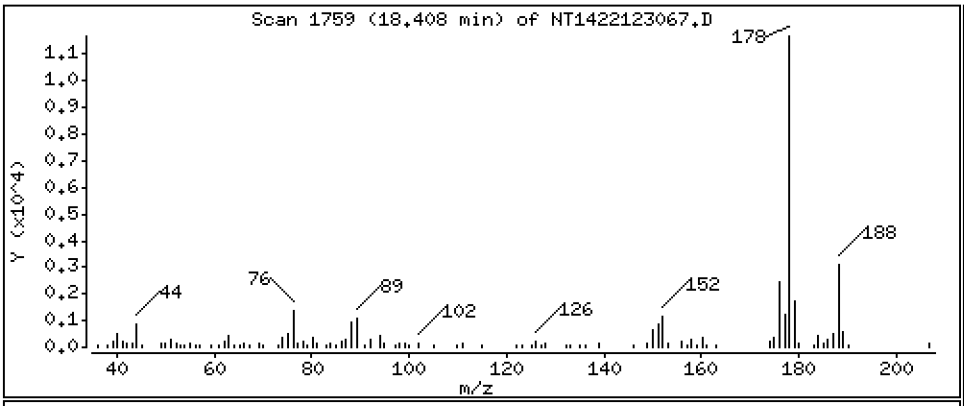
Operator: VTS

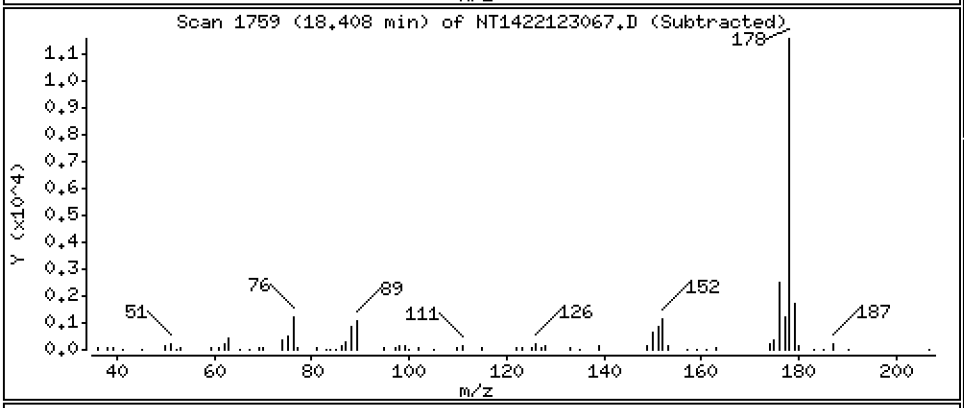
Column phase: ZB-5msi

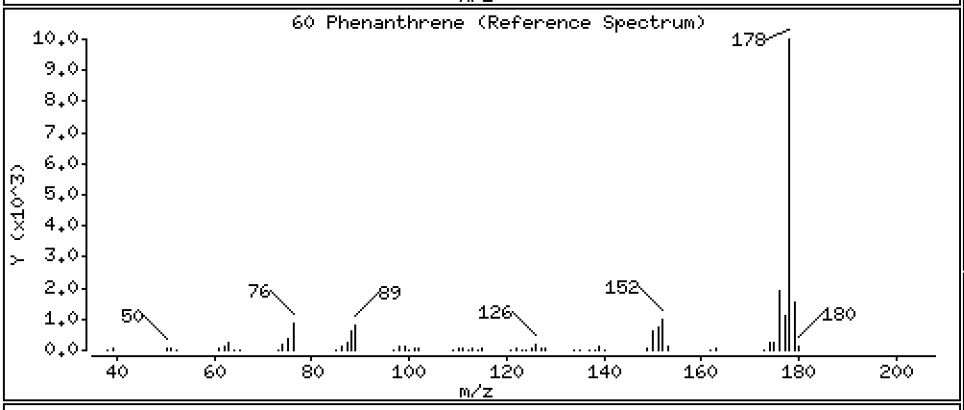
Column diameter: 0.25

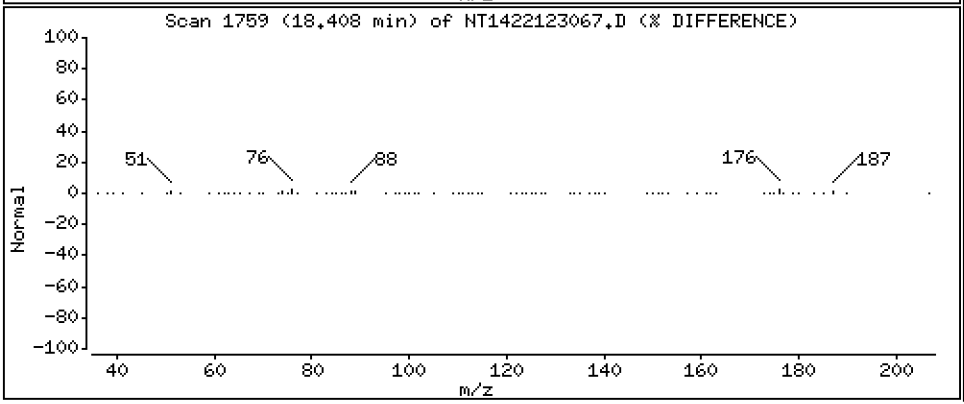
60 Phenanthrene

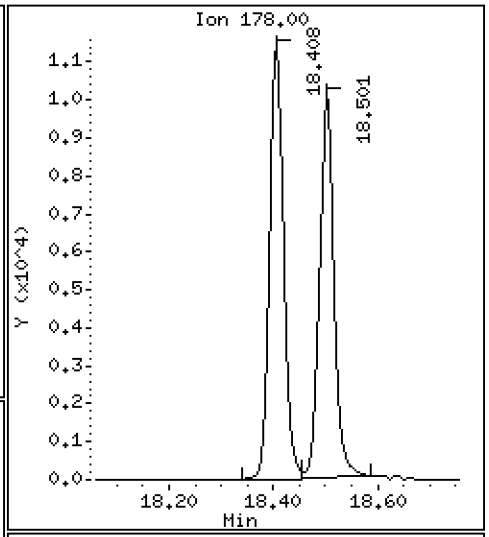
Concentration: 0.2396 ug/mL

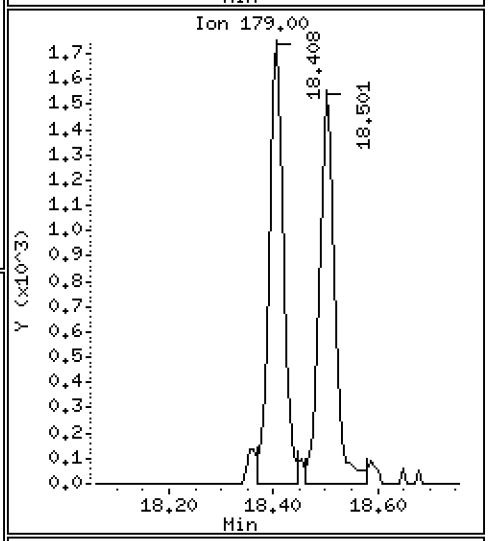


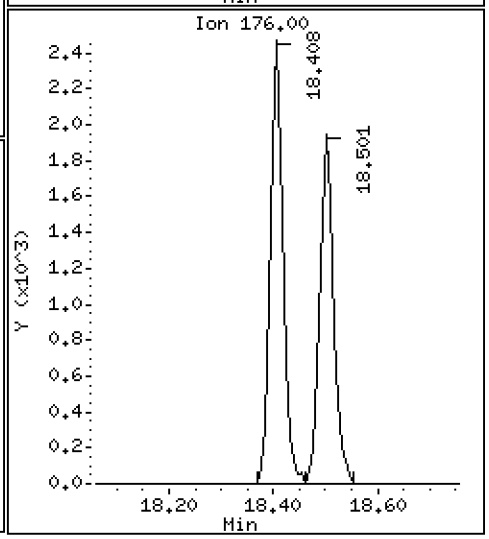












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

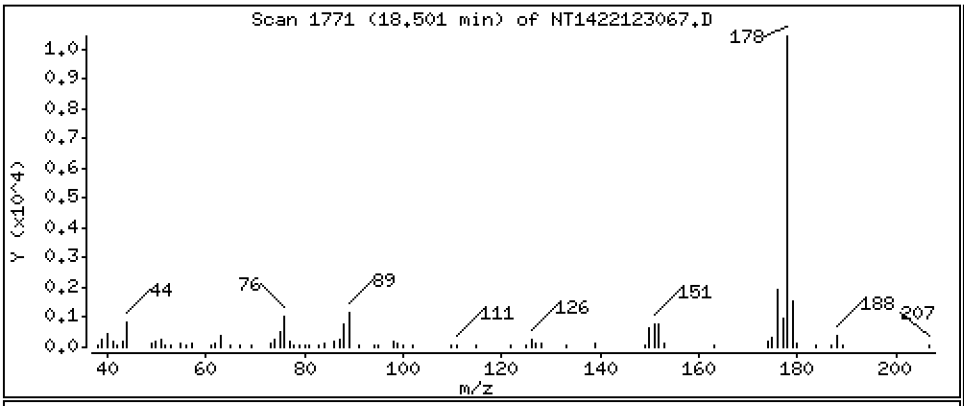
Operator: VTS

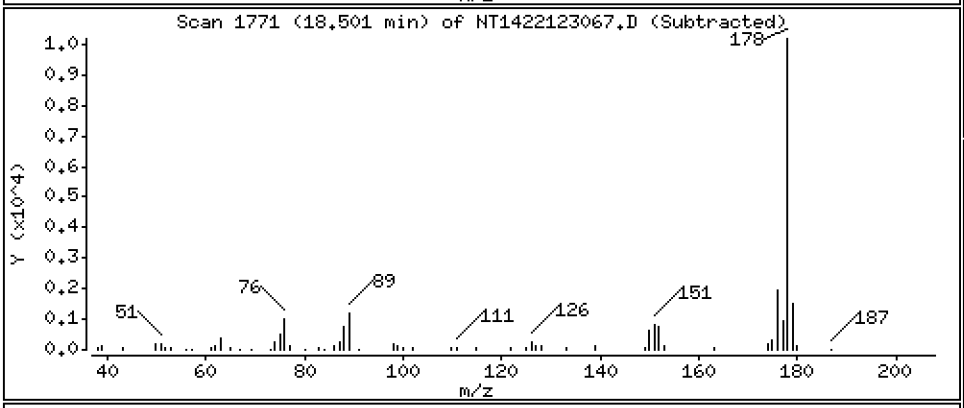
Column phase: ZB-5msi

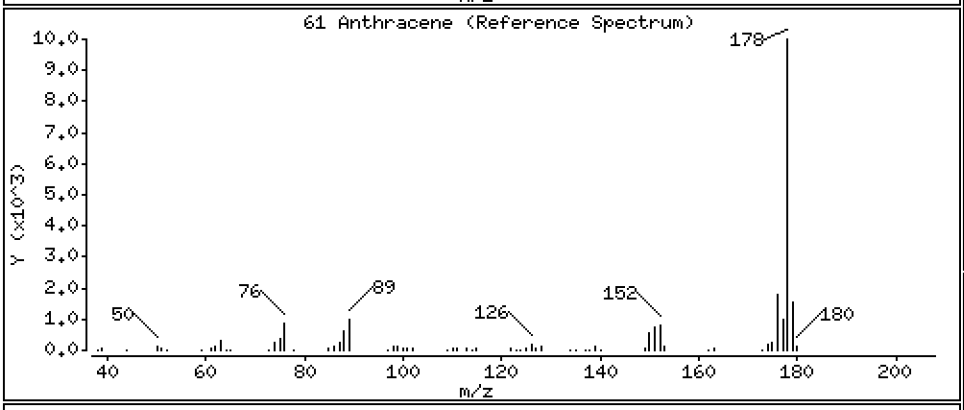
Column diameter: 0.25

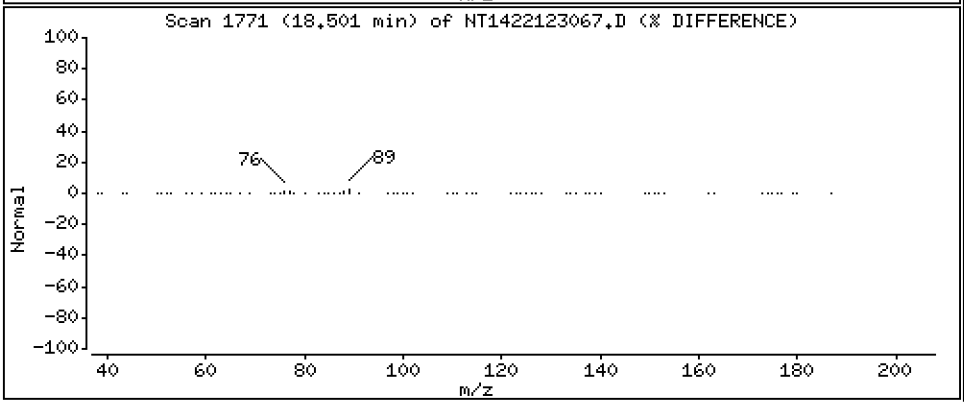
61 Anthracene

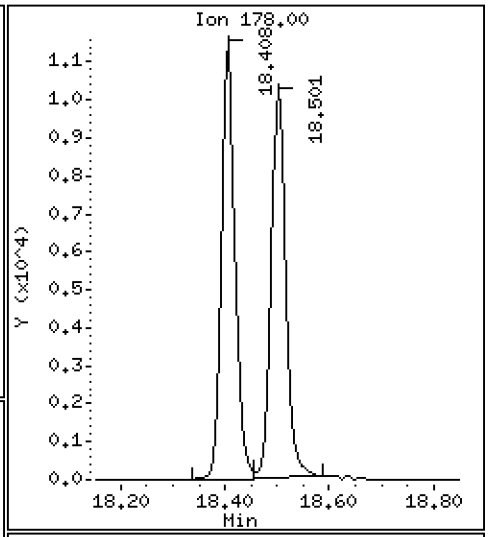
Concentration: 0.2322 ug/mL

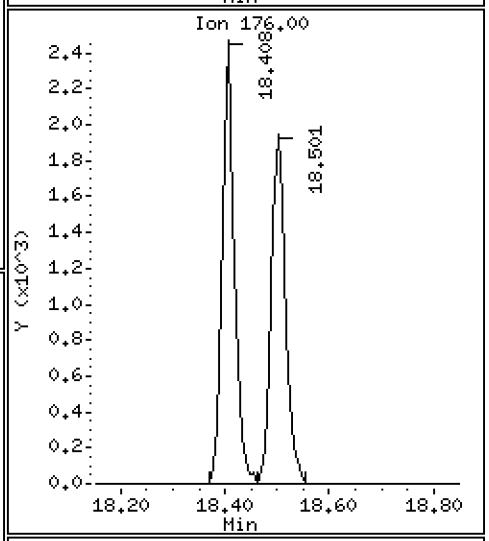


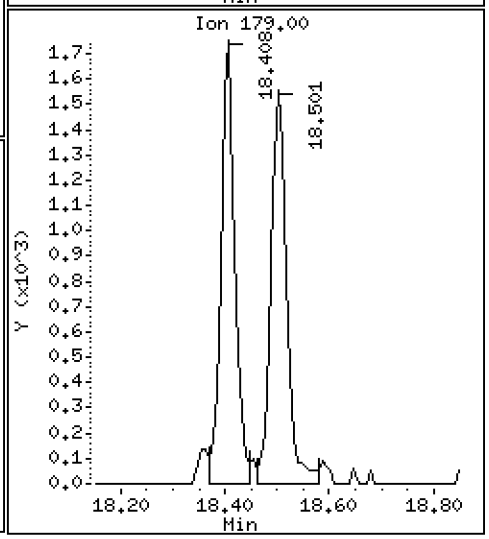












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

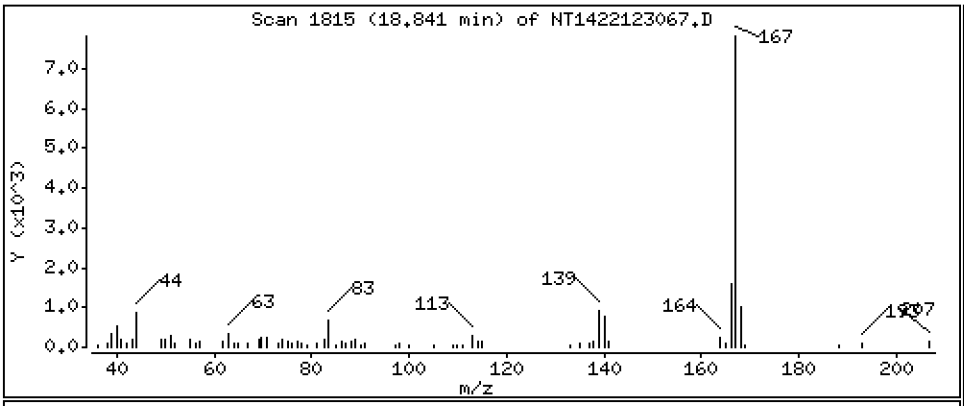
Operator: VTS

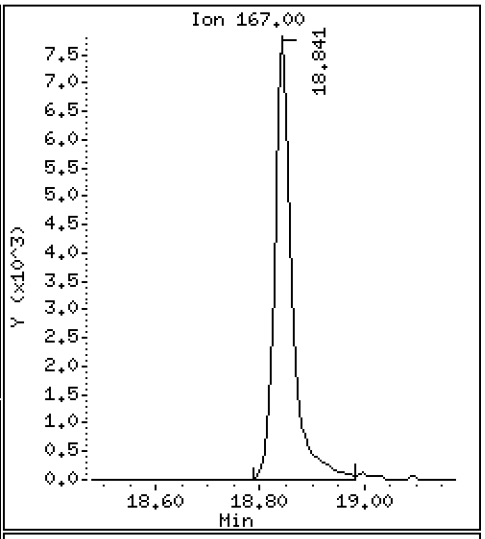
Column phase: ZB-5msi

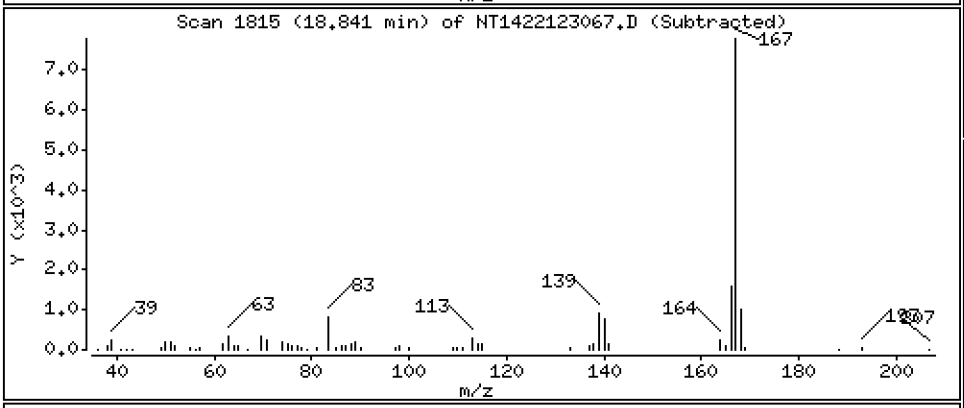
Column diameter: 0.25

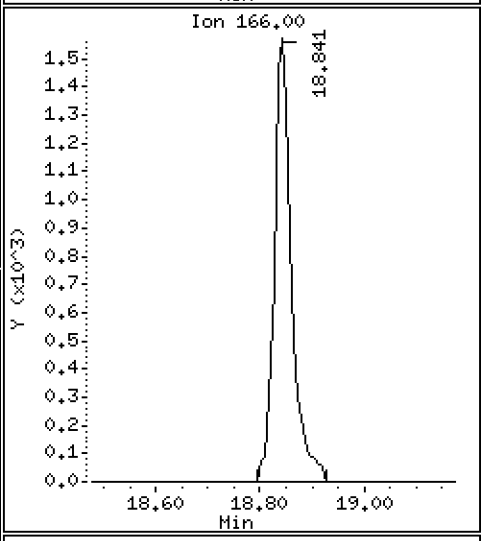
62 Carbazole

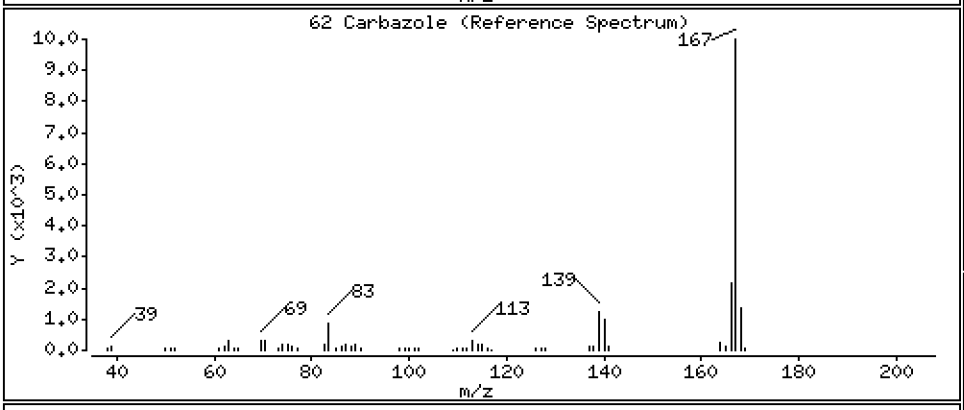
Concentration: 0.2308 ug/mL

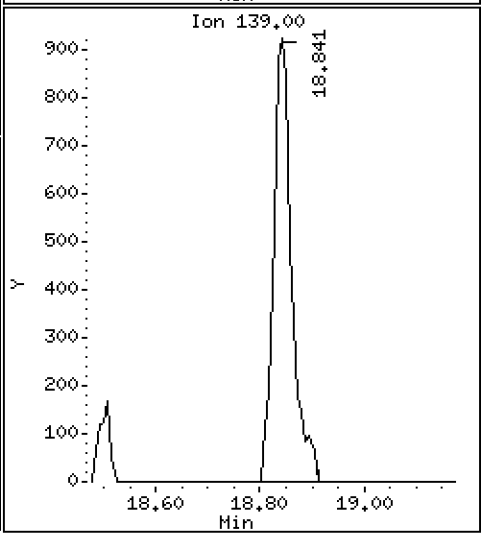


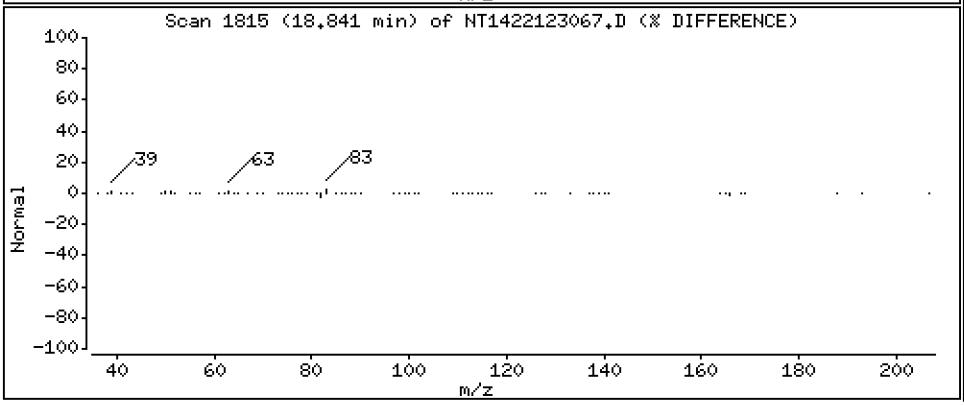












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

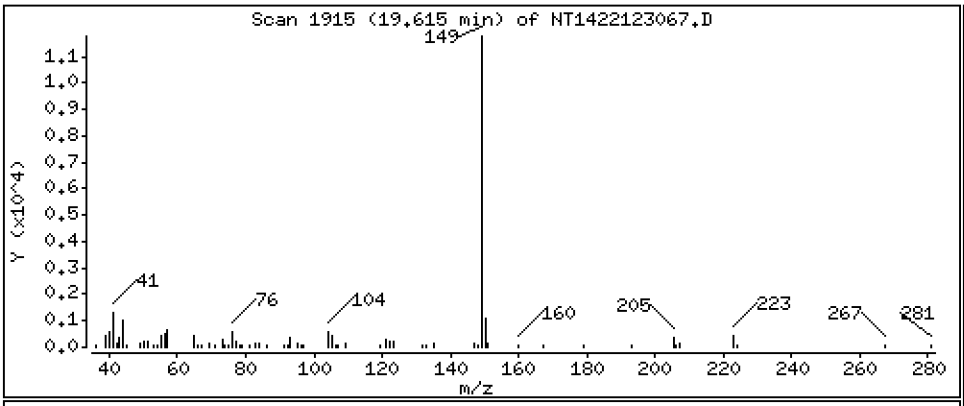
Operator: VTS

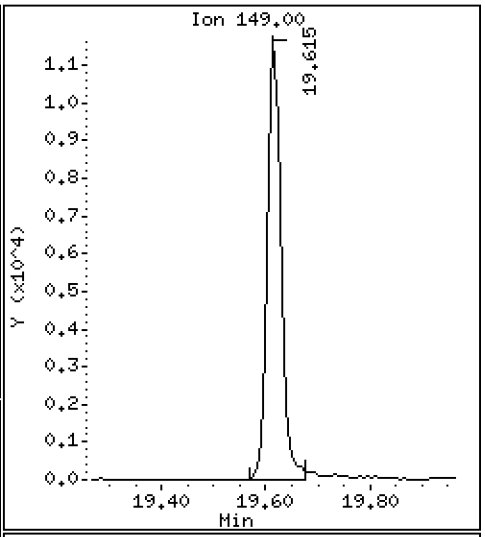
Column phase: ZB-5msi

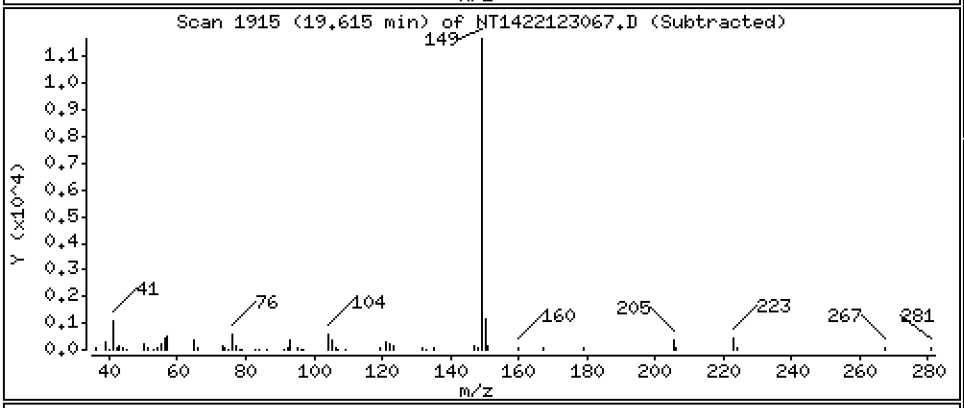
Column diameter: 0.25

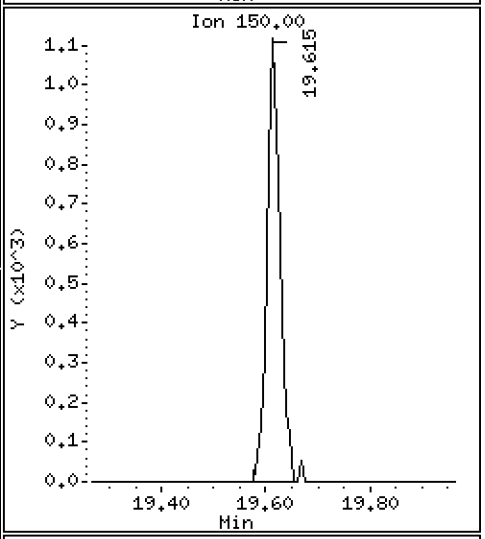
63 Di-n-butylphthalate

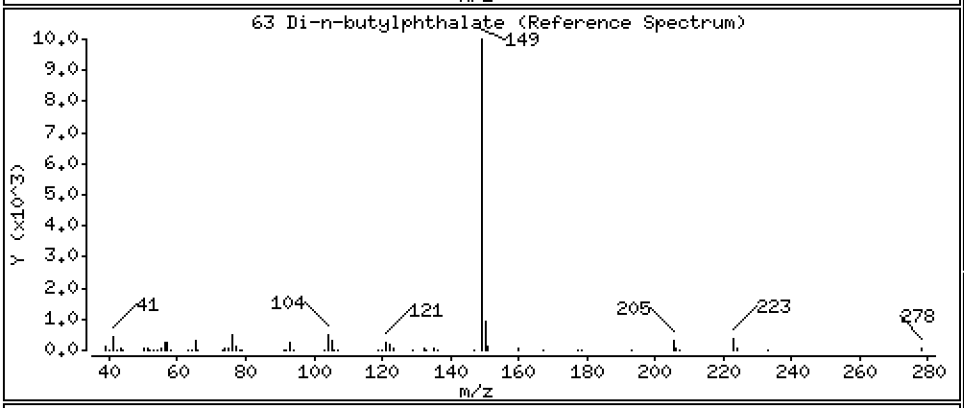
Concentration: 0.2273 ug/mL

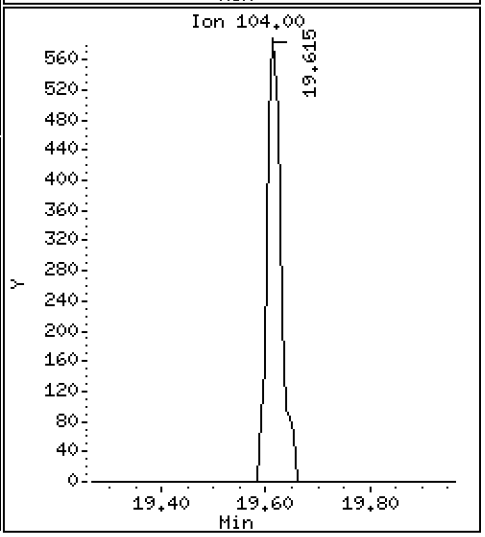


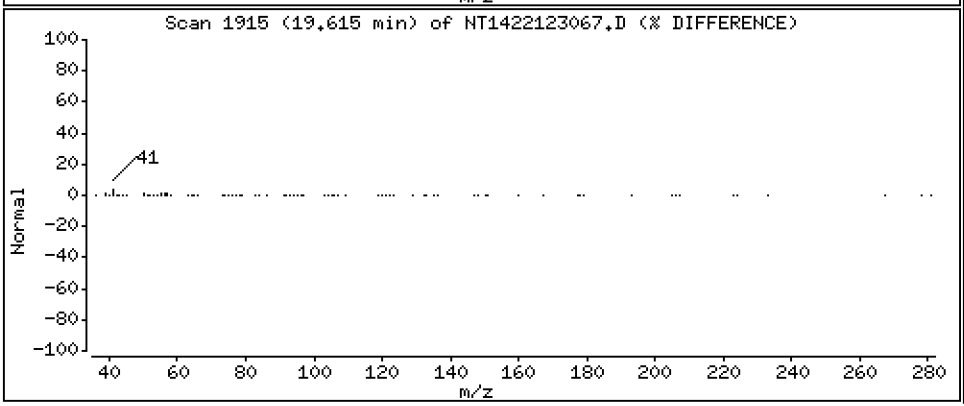












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

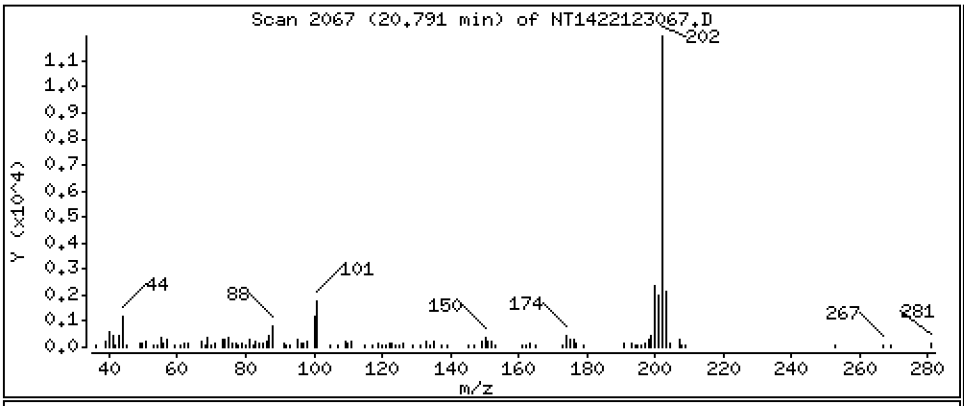
Operator: VTS

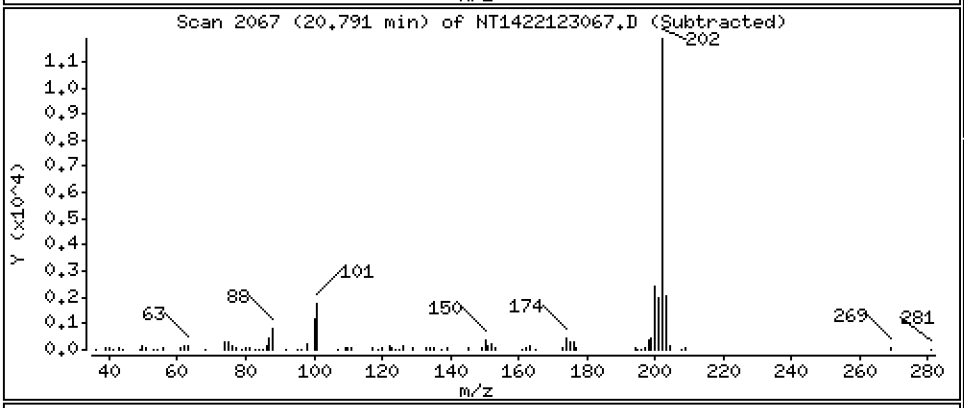
Column phase: ZB-5msi

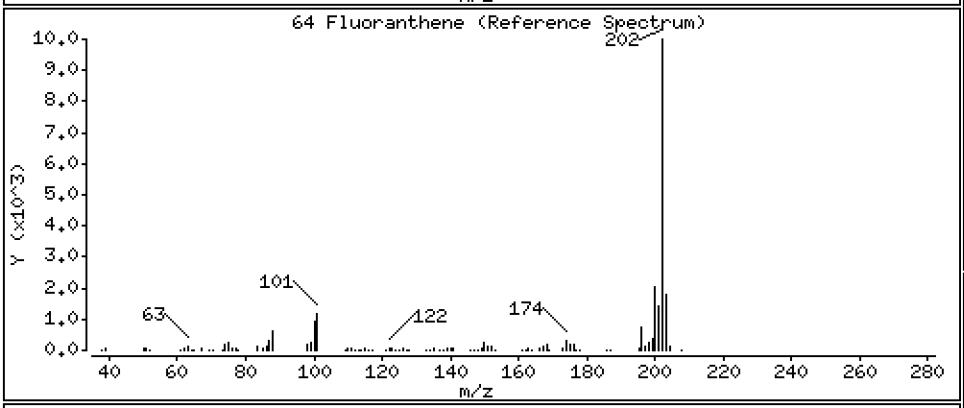
Column diameter: 0.25

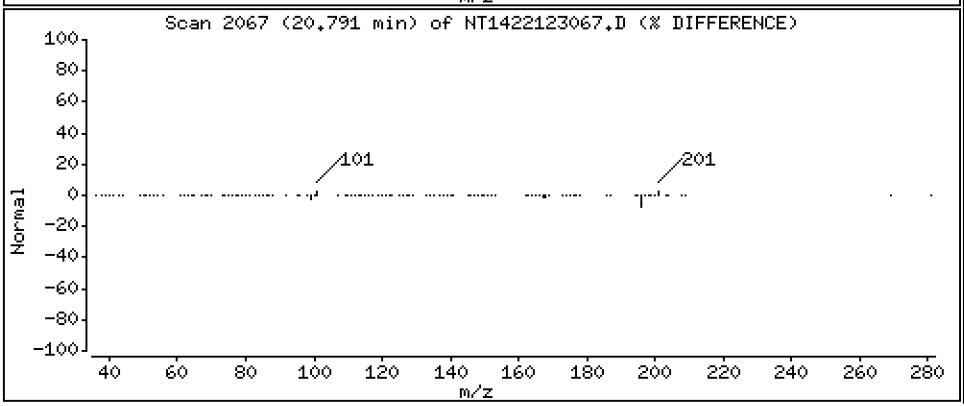
64 Fluoranthene

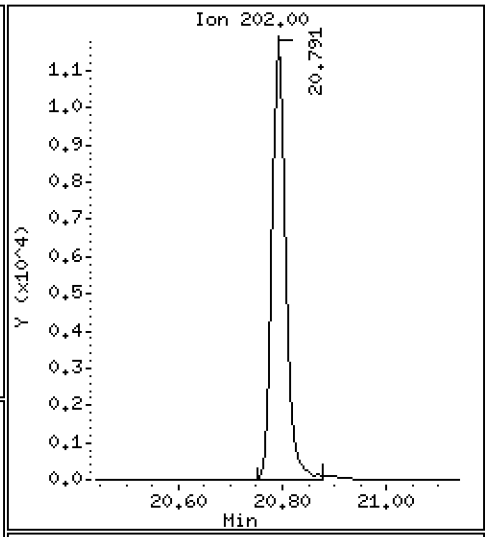
Concentration: 0.2381 ug/mL

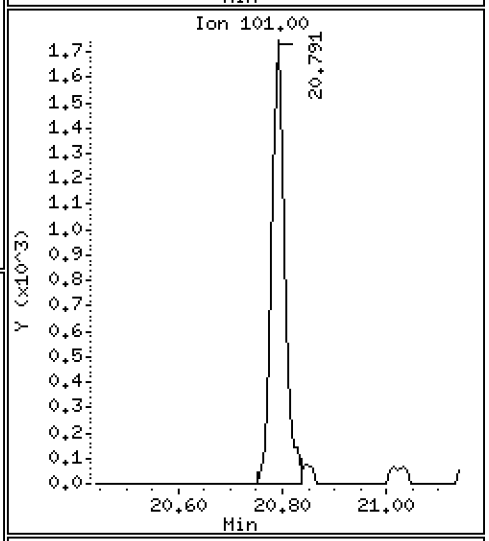


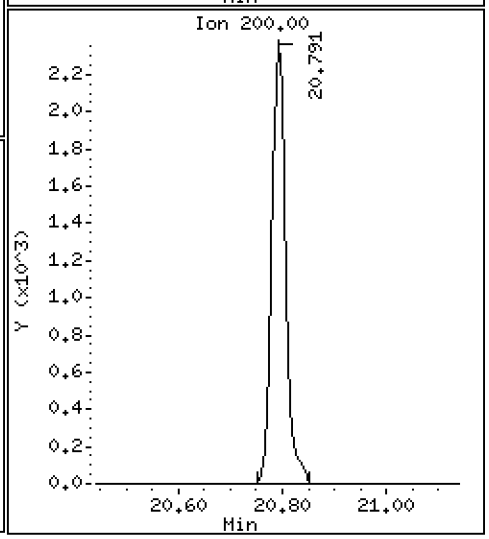












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

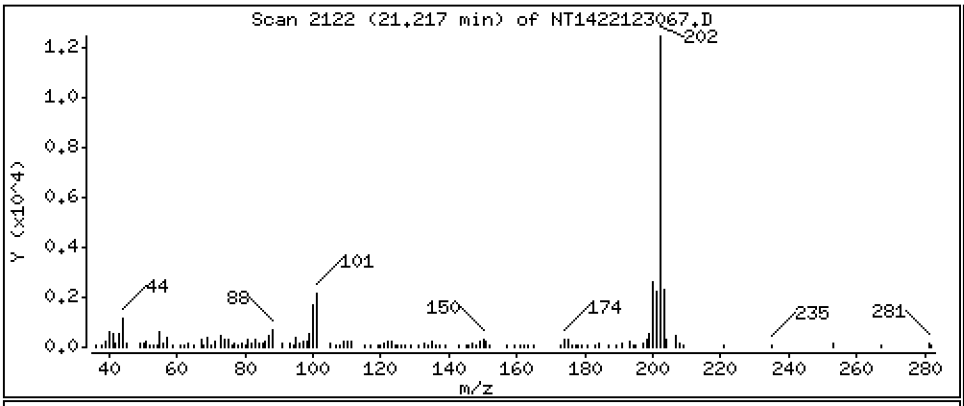
Operator: VTS

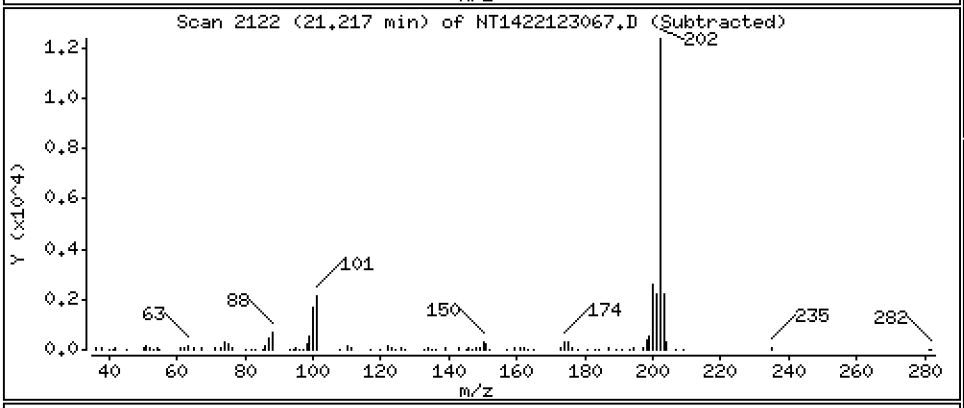
Column phase: ZB-5msi

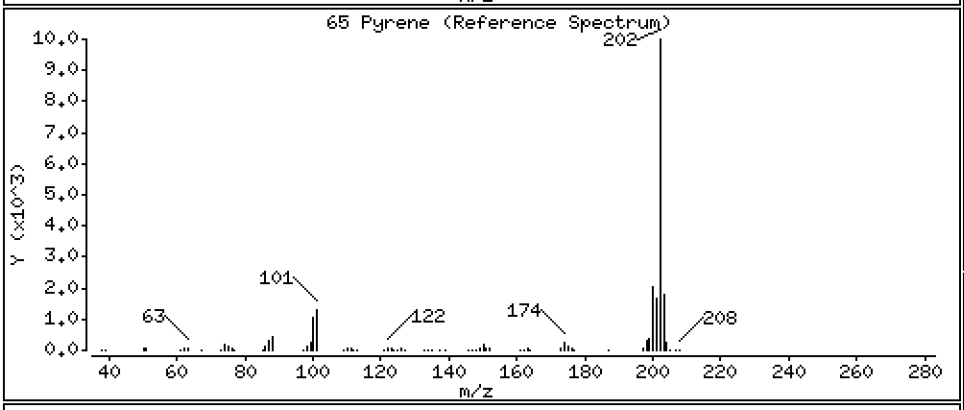
Column diameter: 0.25

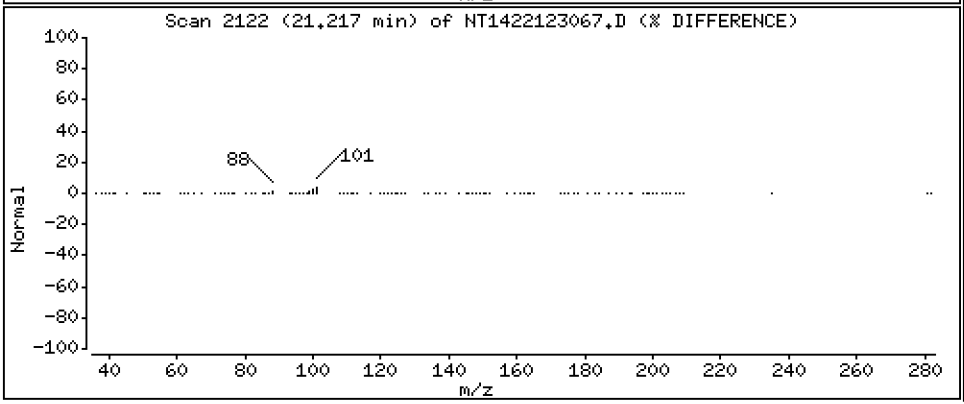
65 Pyrene

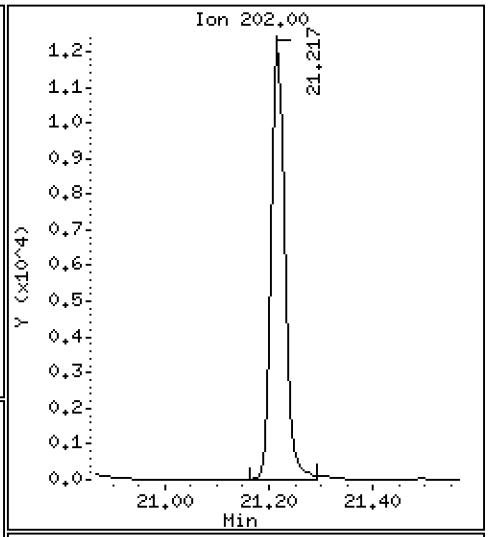
Concentration: 0.2334 ug/mL

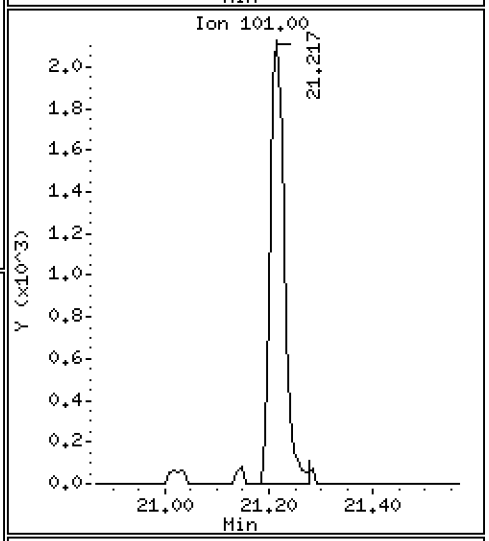


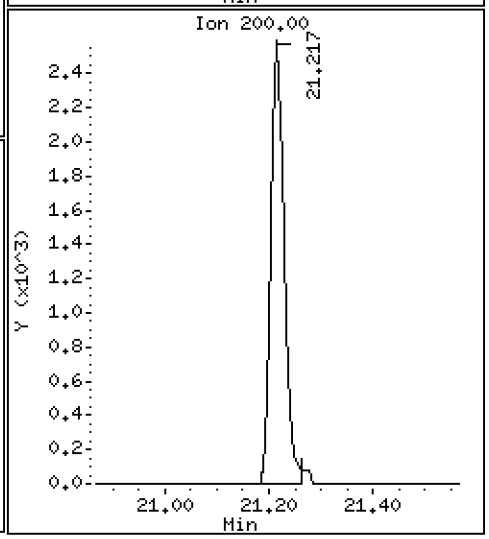












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

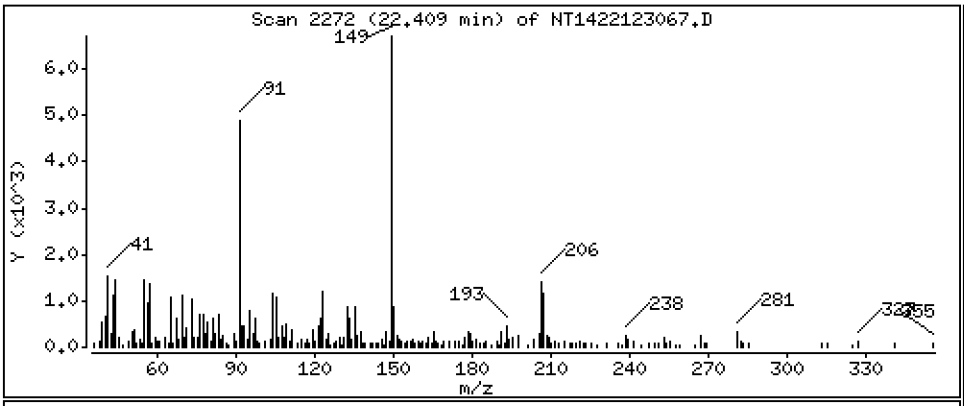
Operator: VTS

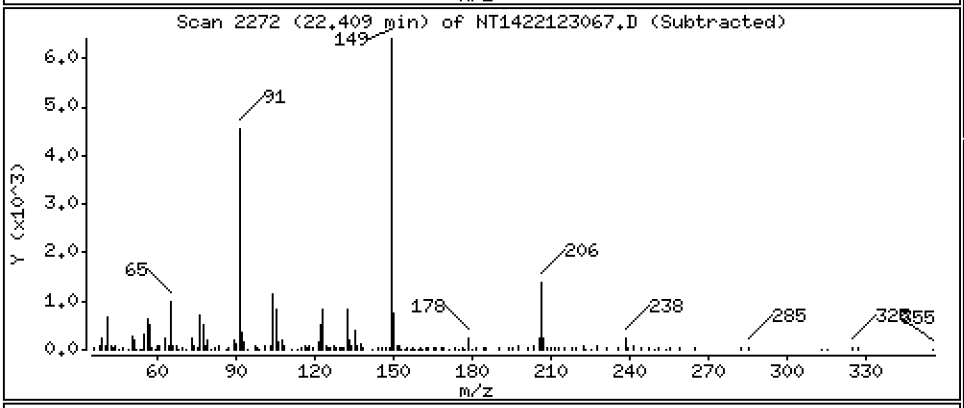
Column phase: ZB-5msi

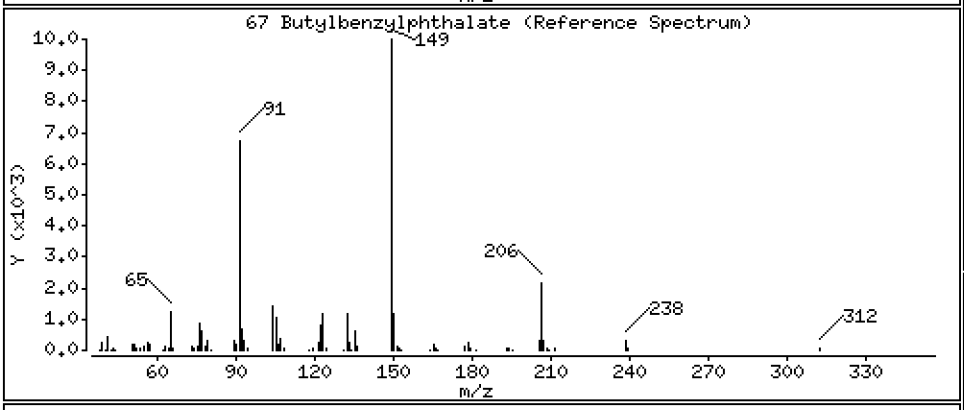
Column diameter: 0.25

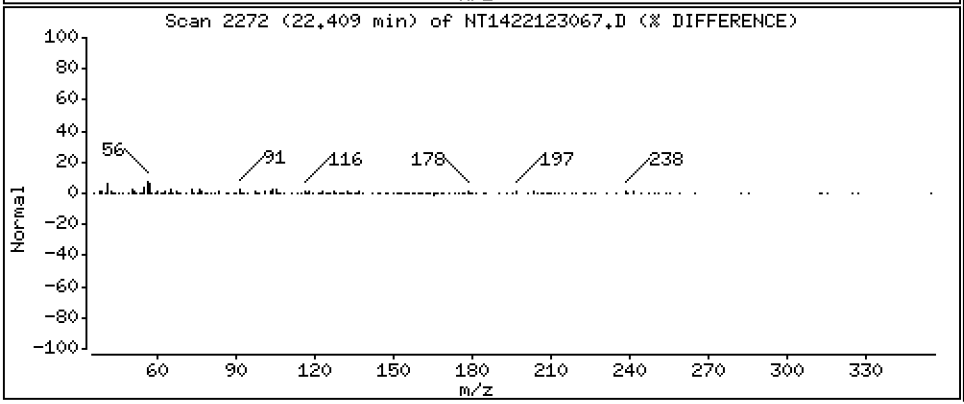
67 Butylbenzylphthalate

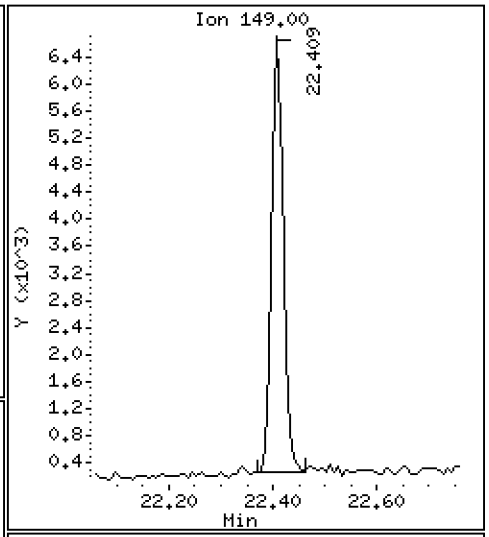
Concentration: 0.2699 ug/mL

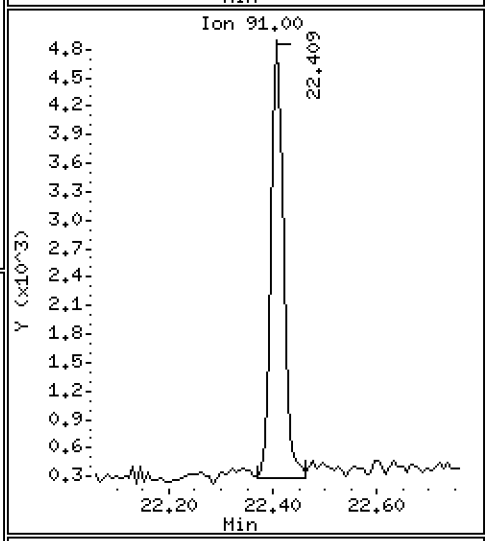


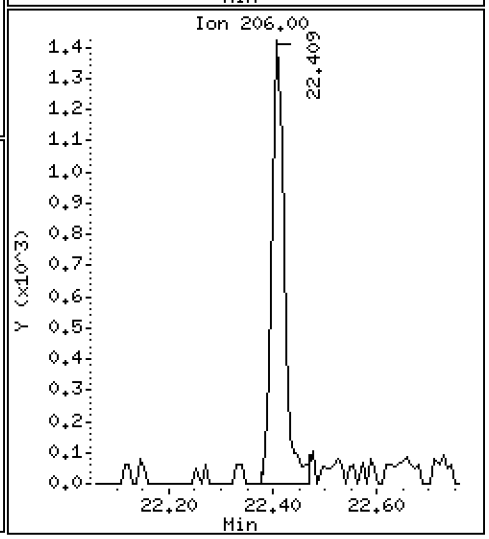












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

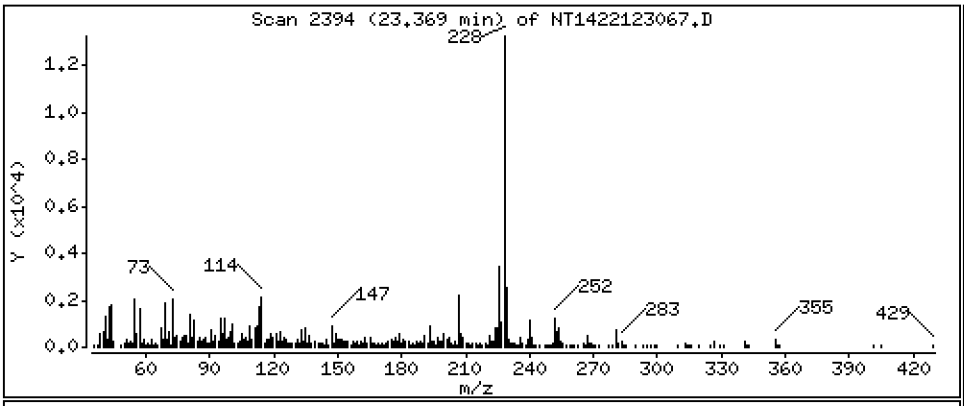
Operator: VTS

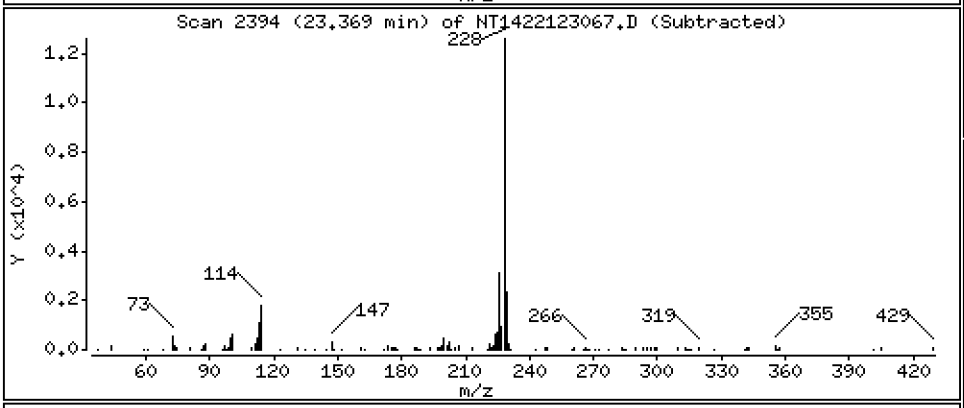
Column phase: ZB-5msi

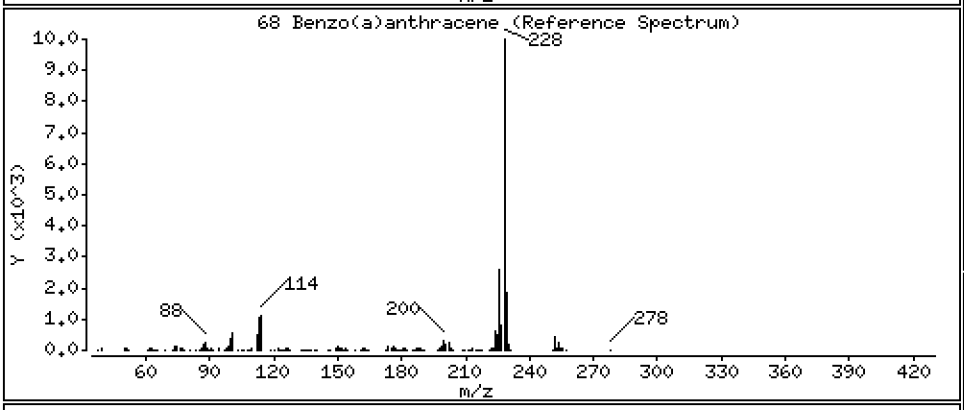
Column diameter: 0.25

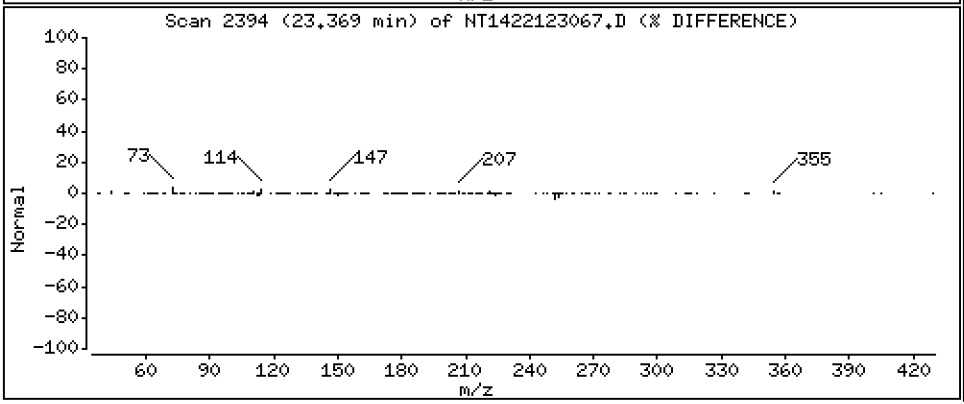
68 Benzo(a)anthracene

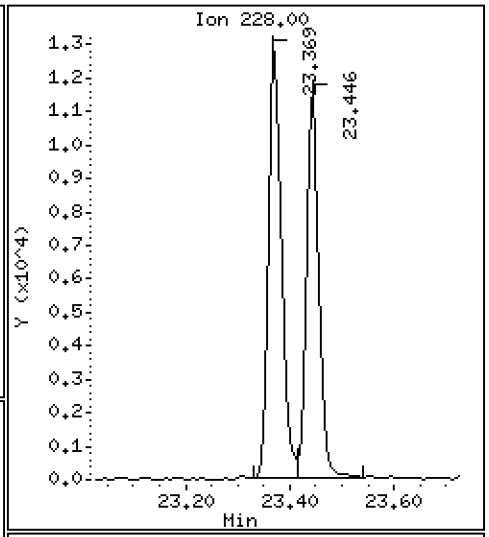
Concentration: 0.2639 ug/mL

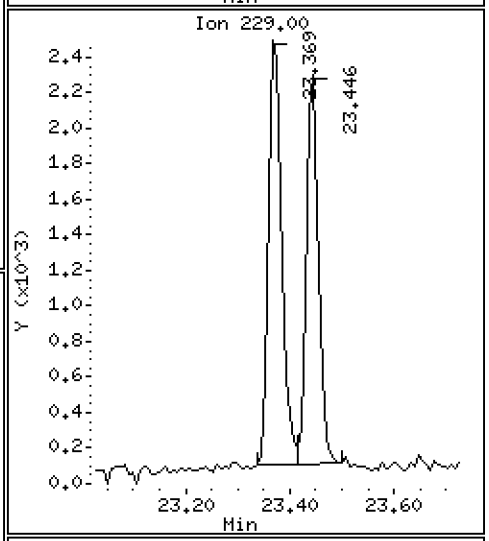


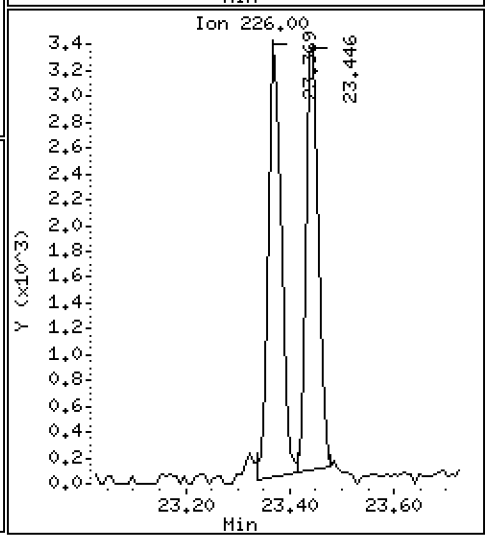












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

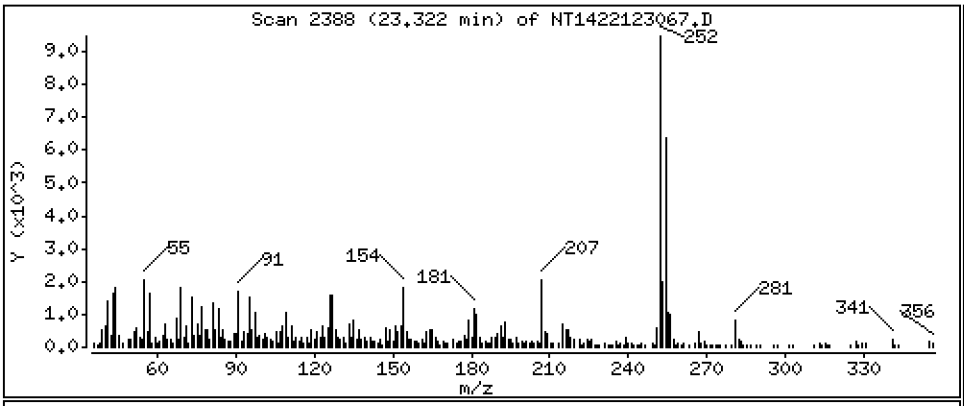
Operator: VTS

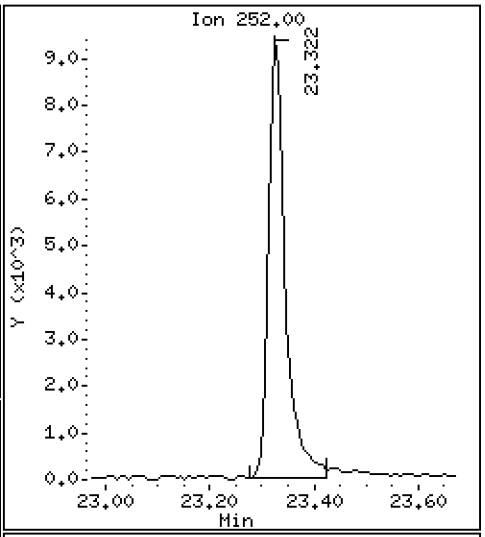
Column phase: ZB-5msi

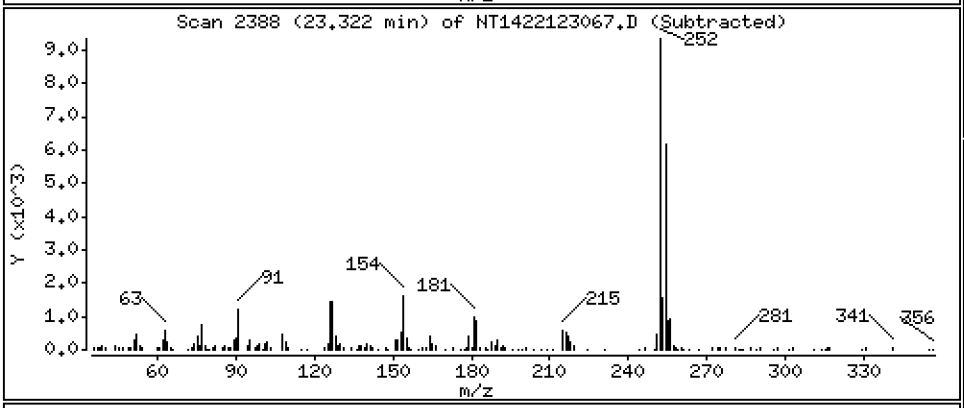
Column diameter: 0.25

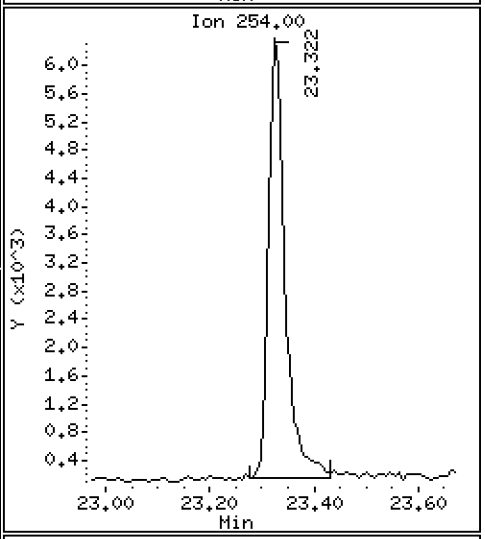
70 3,3'-Dichlorobenzidine

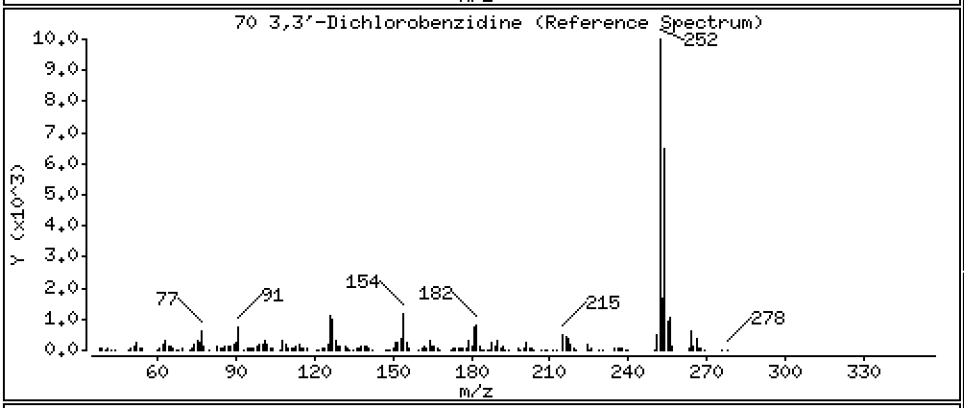
Concentration: 0.8193 ug/mL

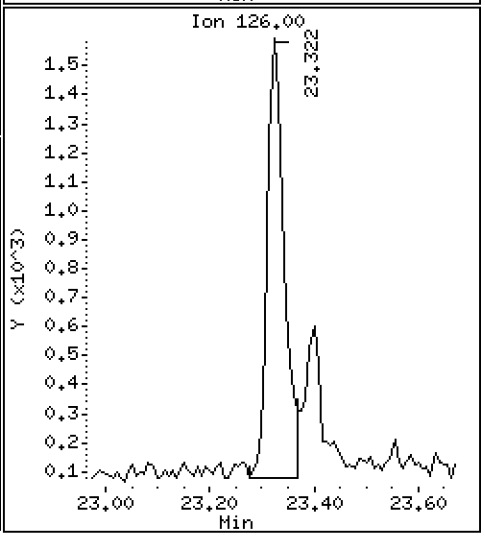


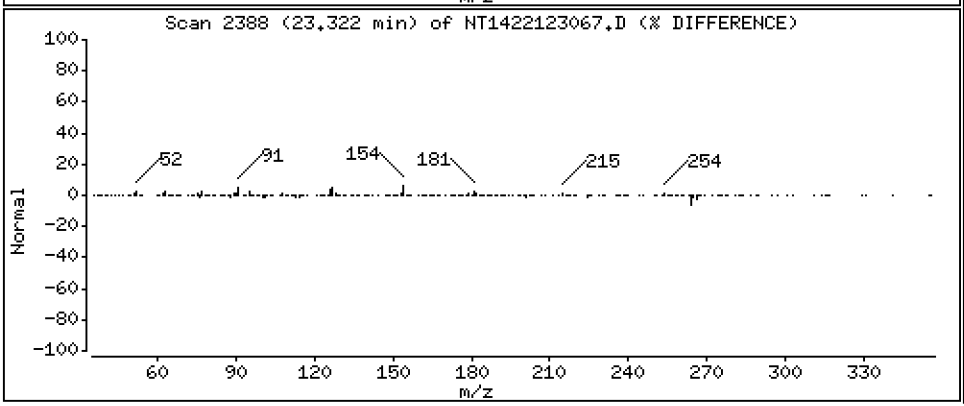












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

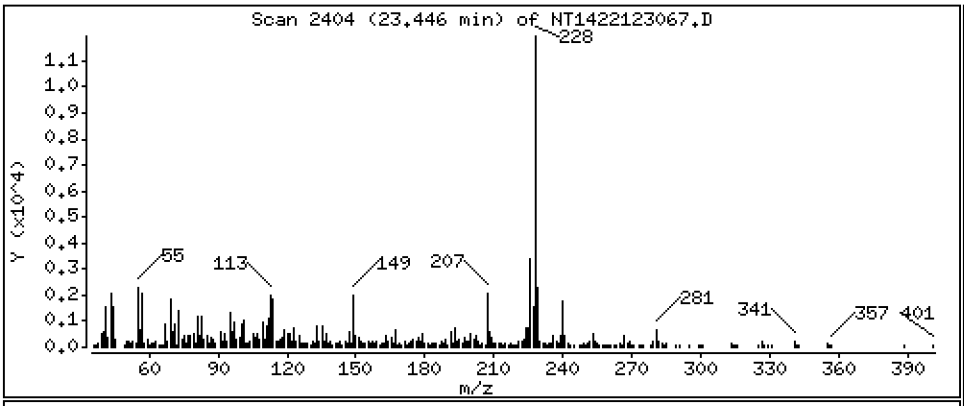
Operator: VTS

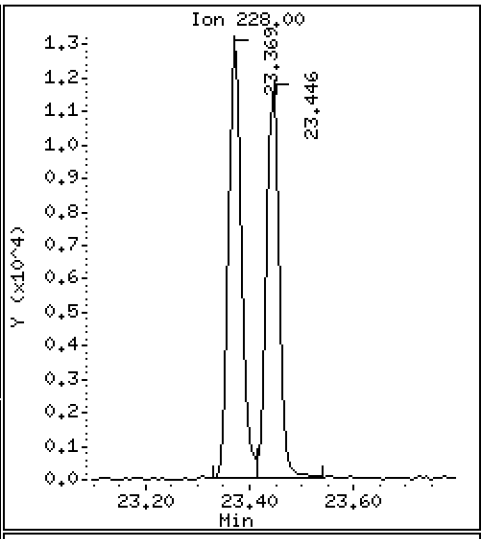
Column phase: ZB-5msi

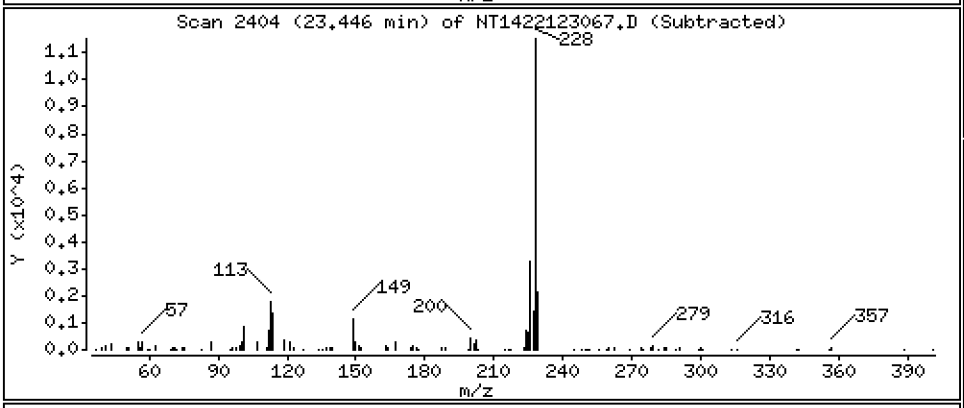
Column diameter: 0.25

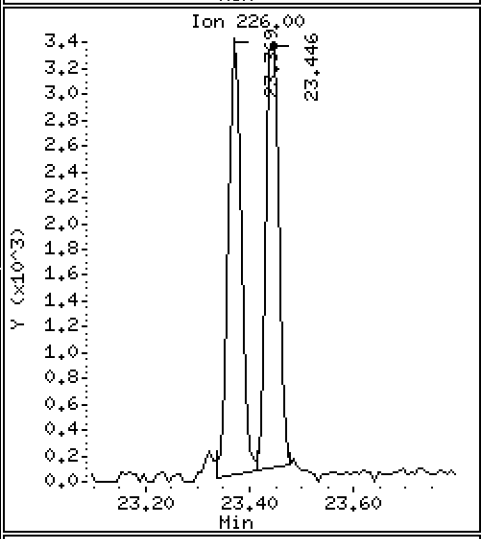
71 Chrysene

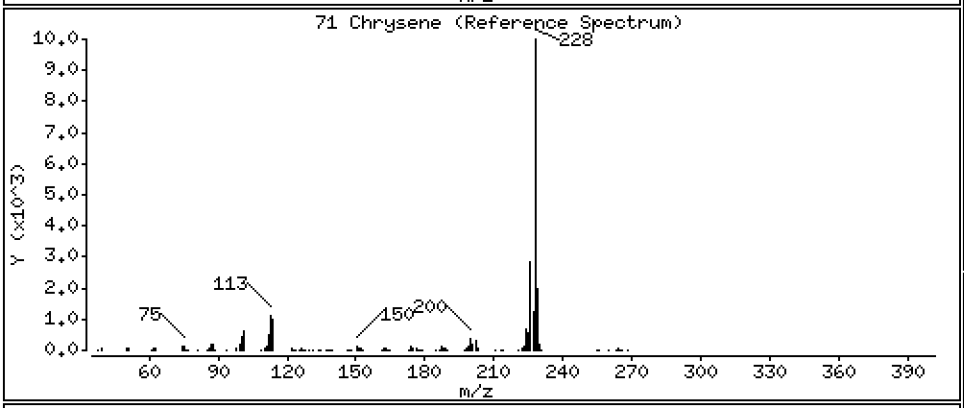
Concentration: 0.2429 ug/mL

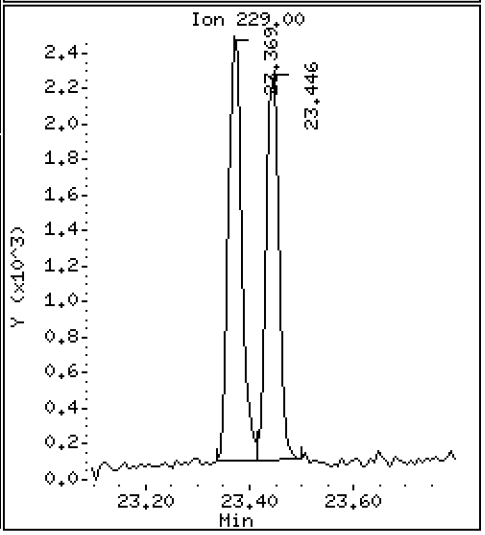


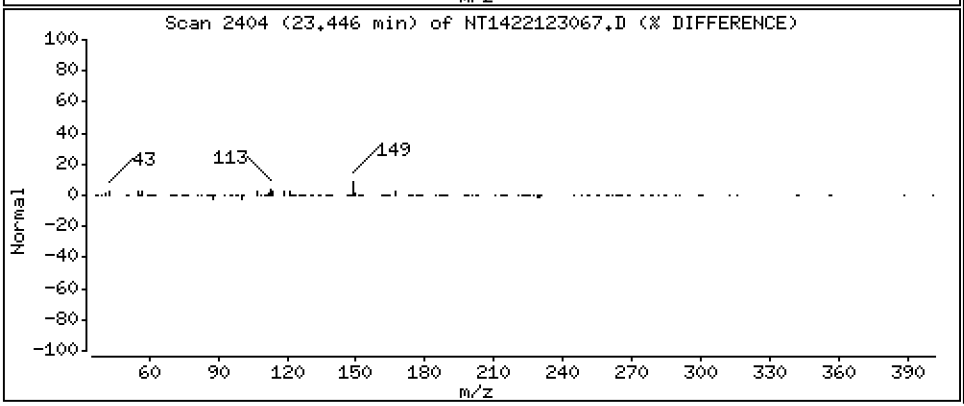












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

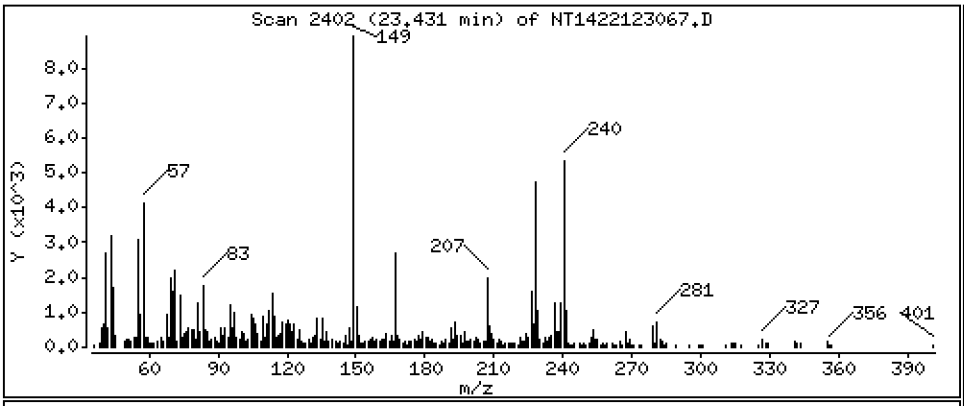
Operator: VTS

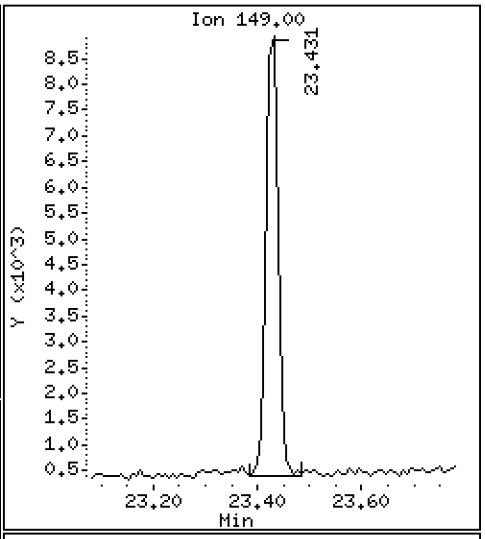
Column phase: ZB-5msi

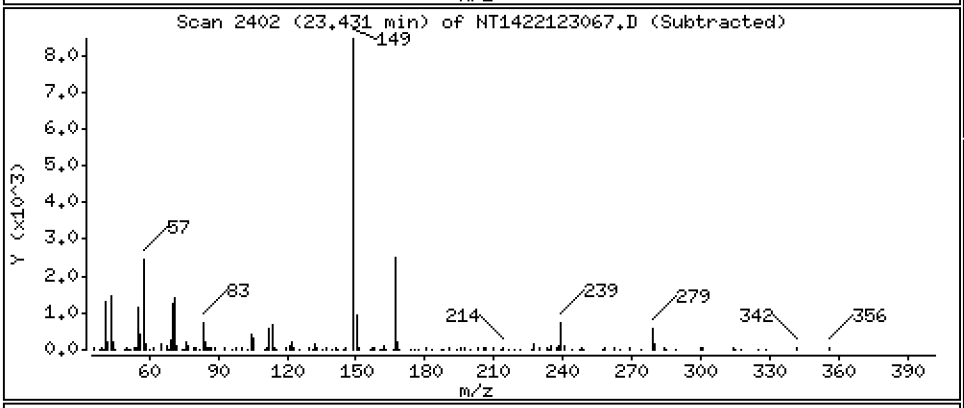
Column diameter: 0.25

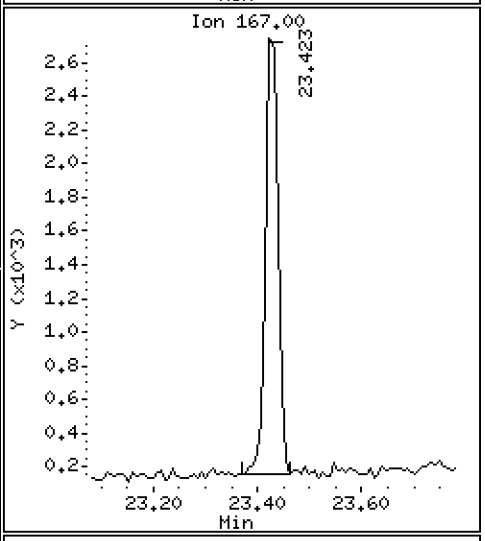
72 bis(2-Ethylhexyl)phthalate

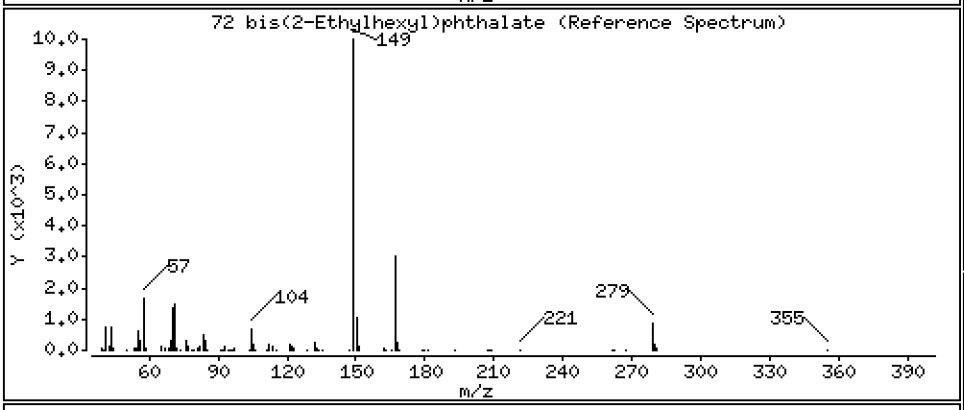
Concentration: 0.2611 ug/mL

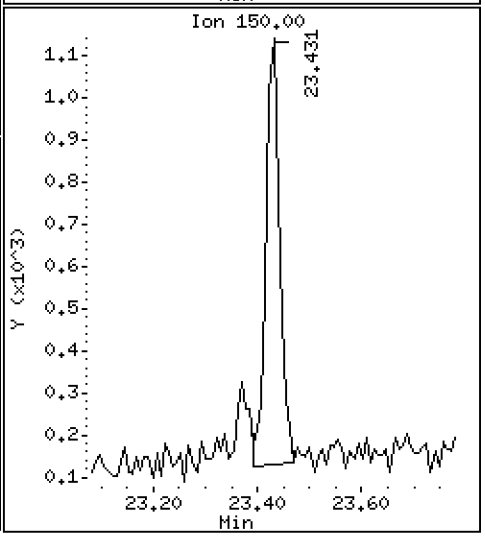


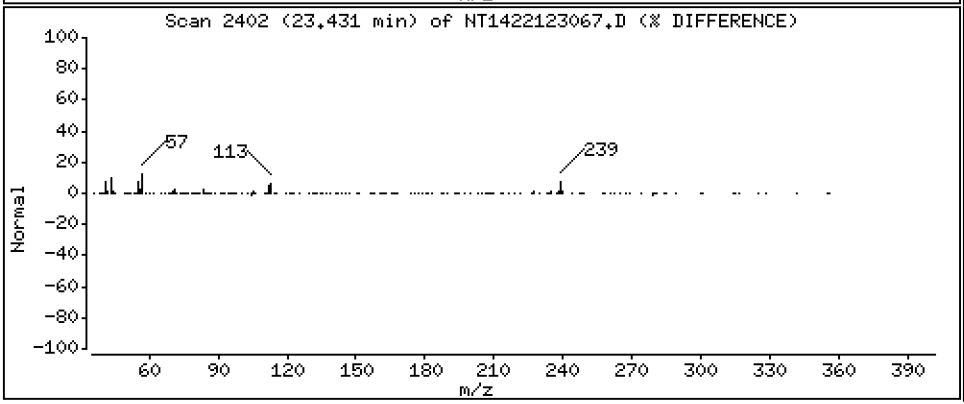












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

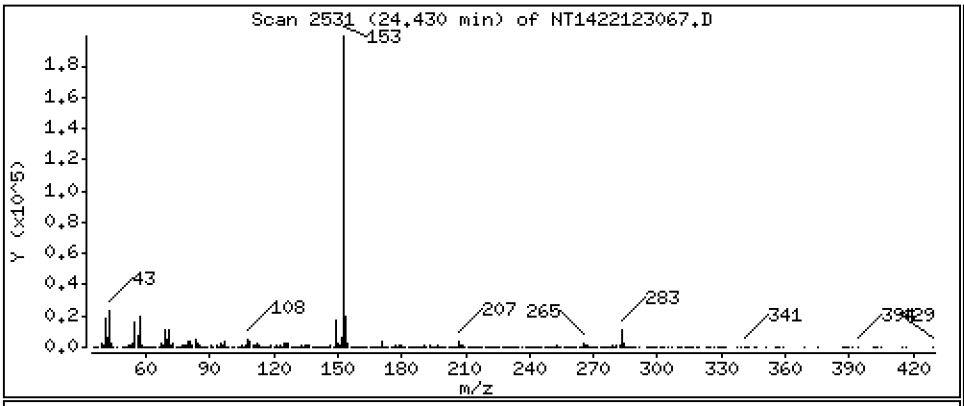
Operator: VTS

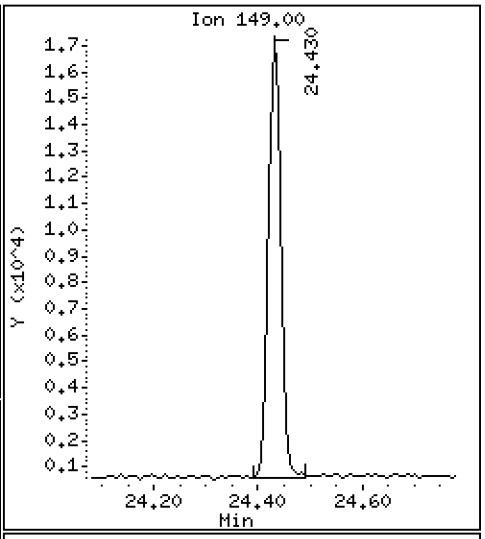
Column phase: ZB-5msi

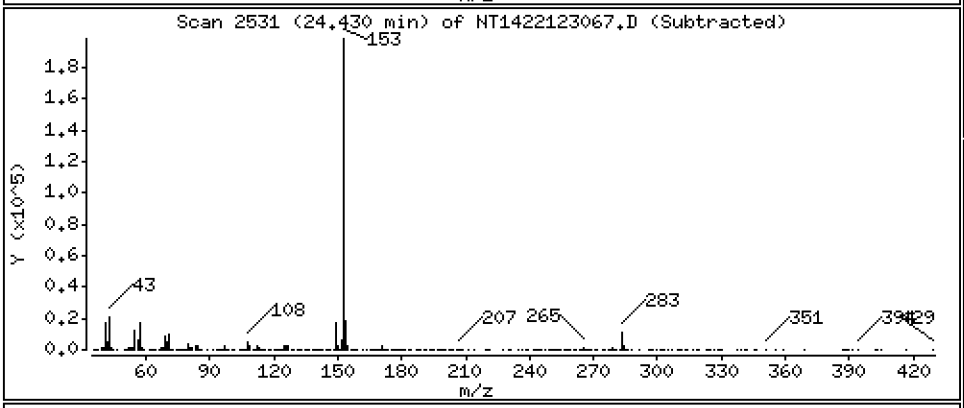
Column diameter: 0.25

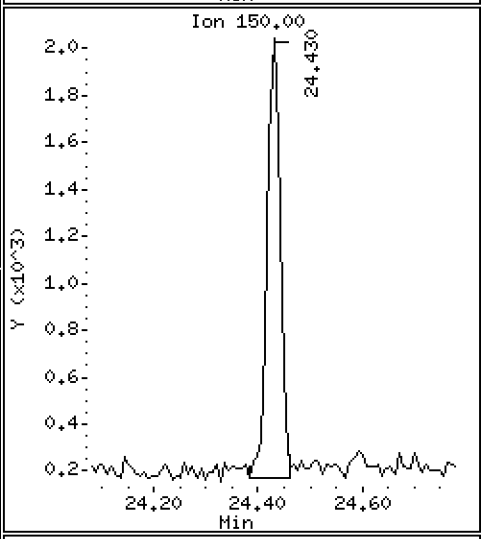
73 Di-n-octylphthalate

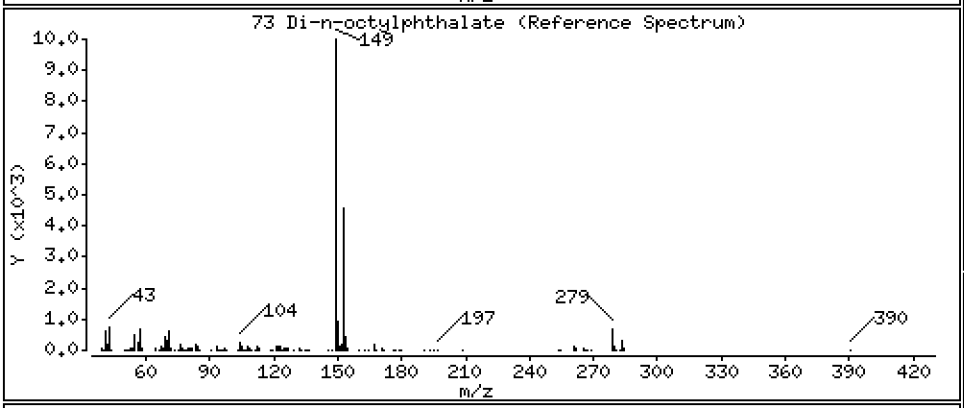
Concentration: 0.2459 ug/mL

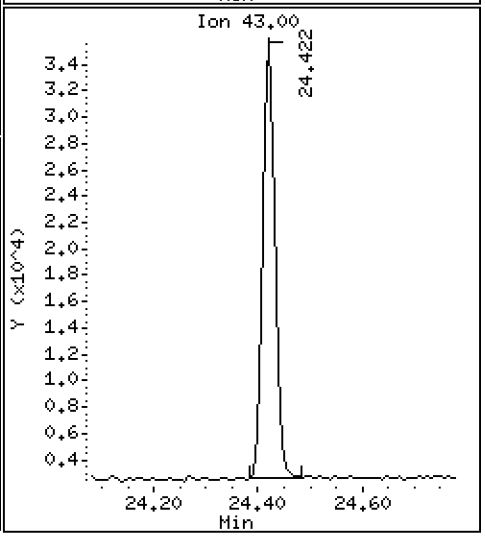


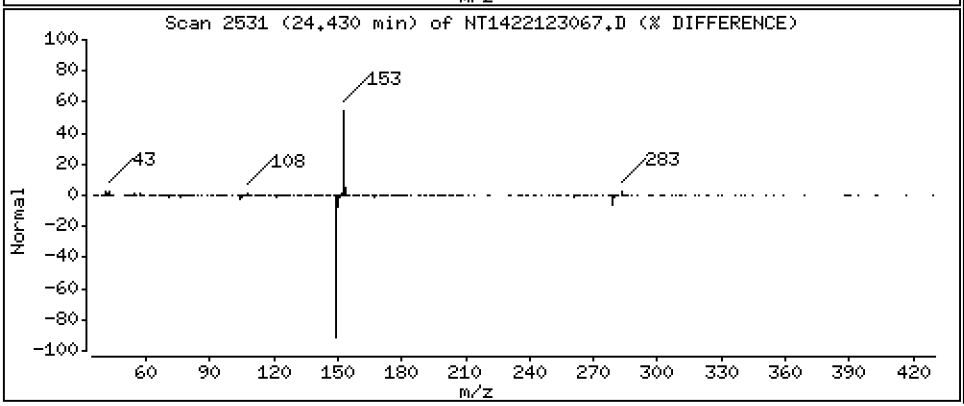












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

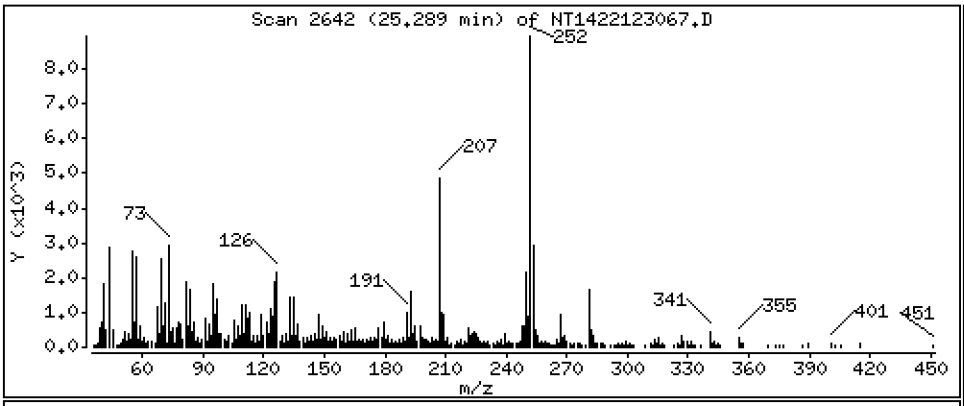
Operator: VTS

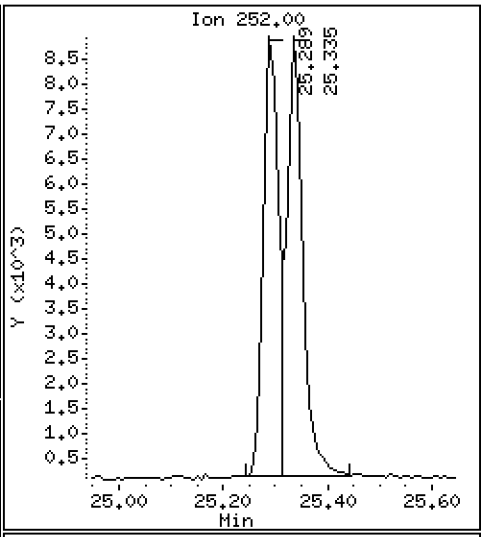
Column phase: ZB-5msi

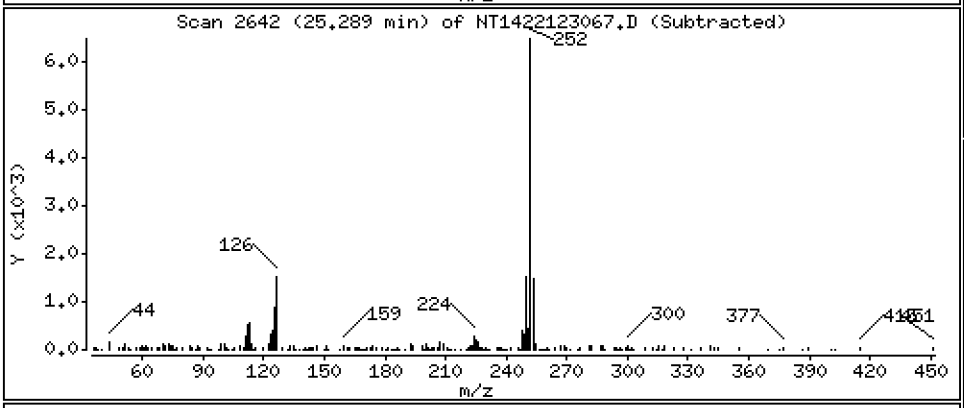
Column diameter: 0.25

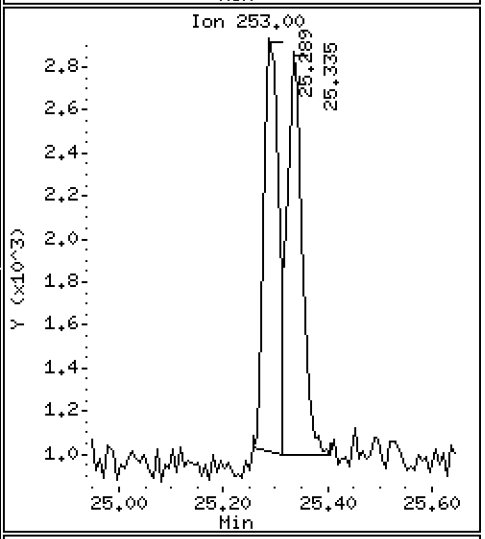
74 Benzo(b)fluoranthene

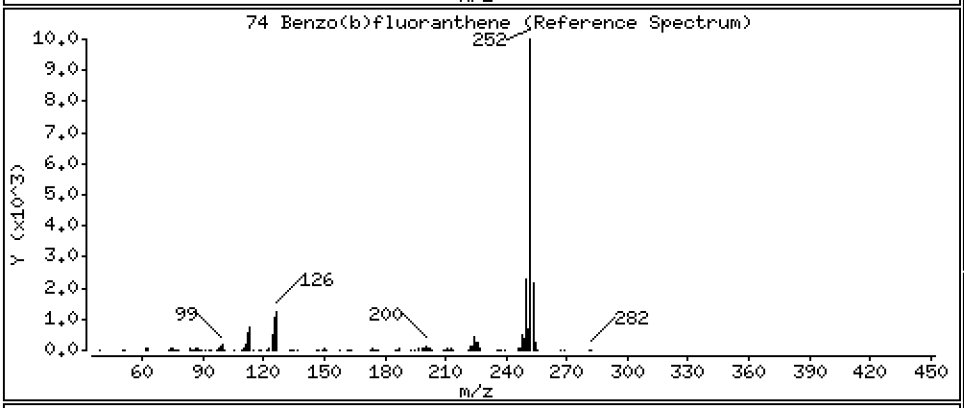
Concentration: 0.2414 ug/mL

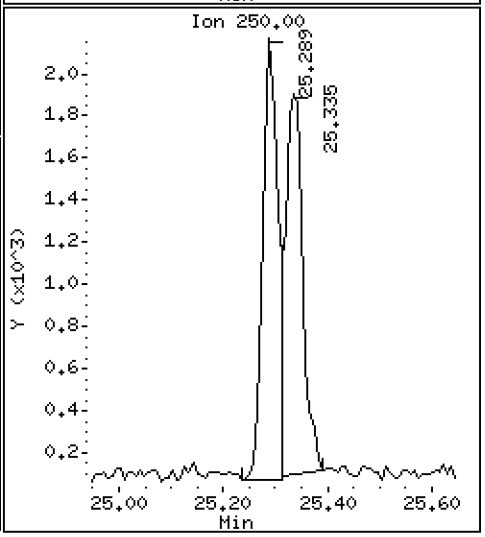


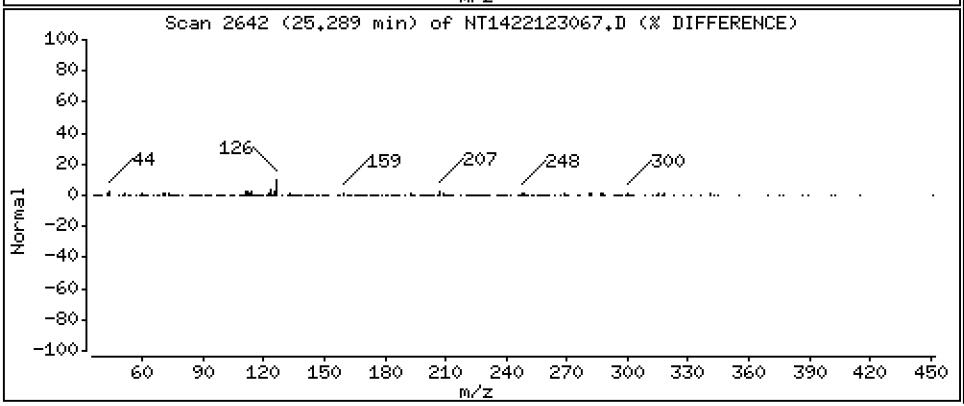












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

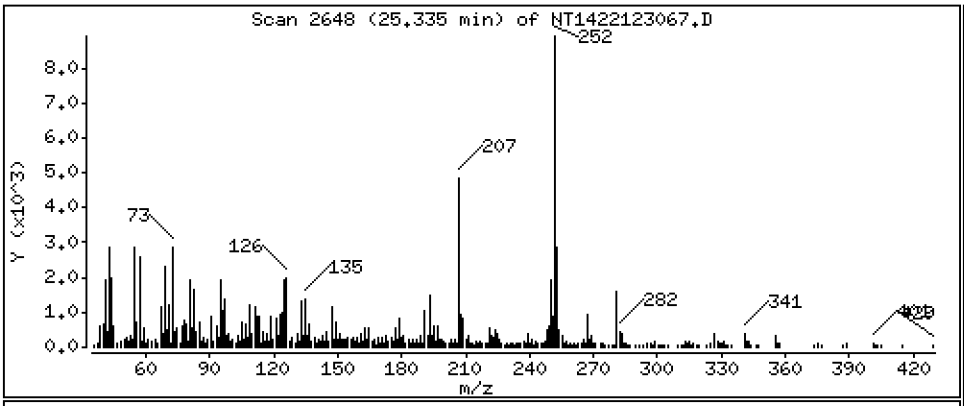
Operator: VTS

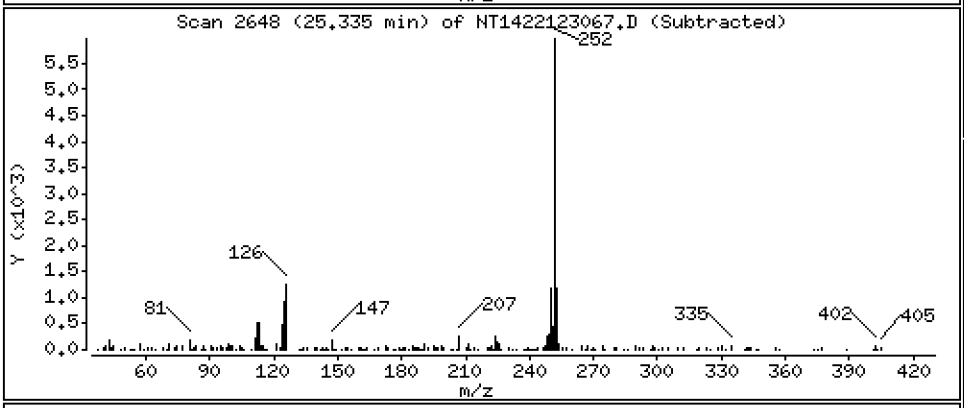
Column phase: ZB-5msi

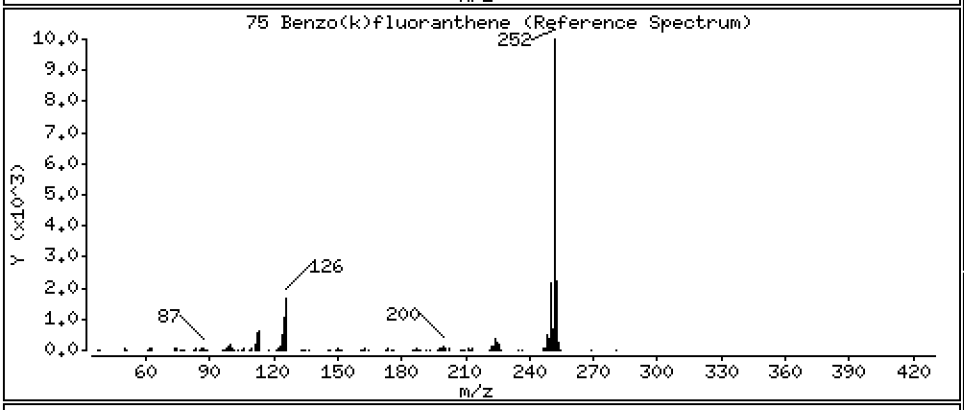
Column diameter: 0.25

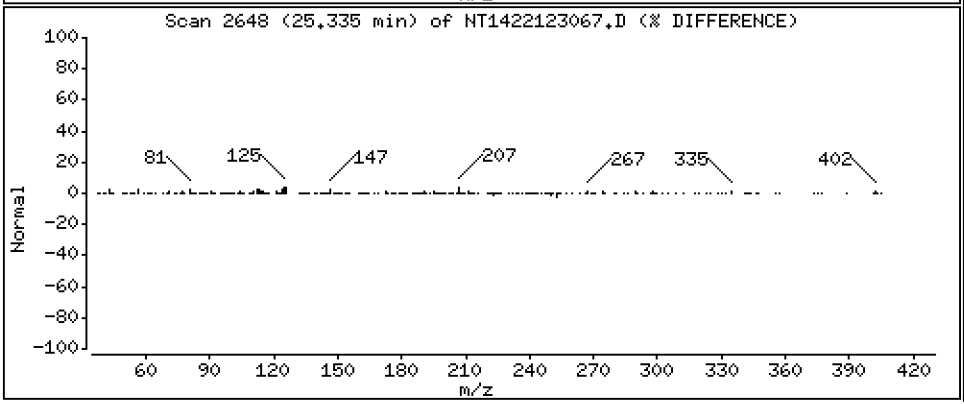
75 Benzo(k)fluoranthene

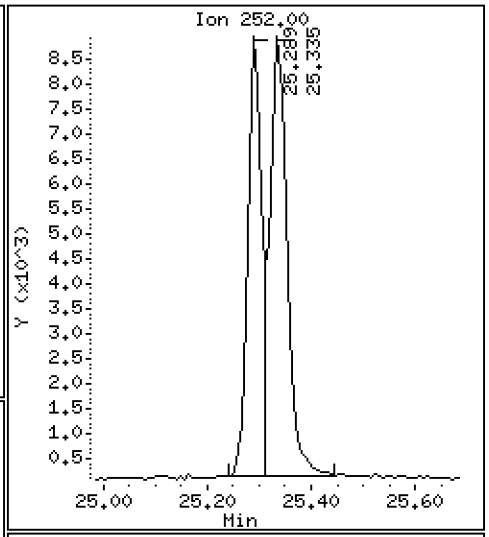
Concentration: 0.2810 ug/mL

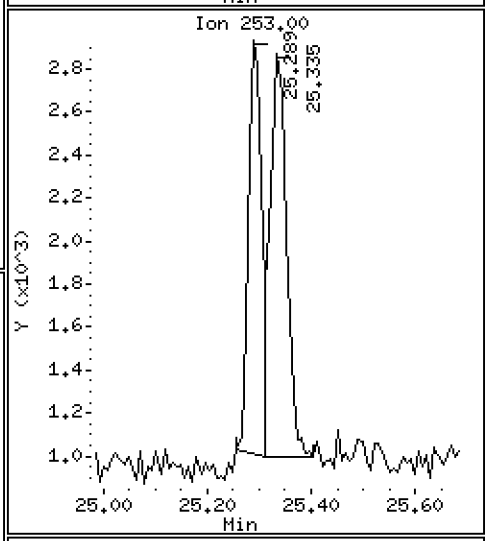


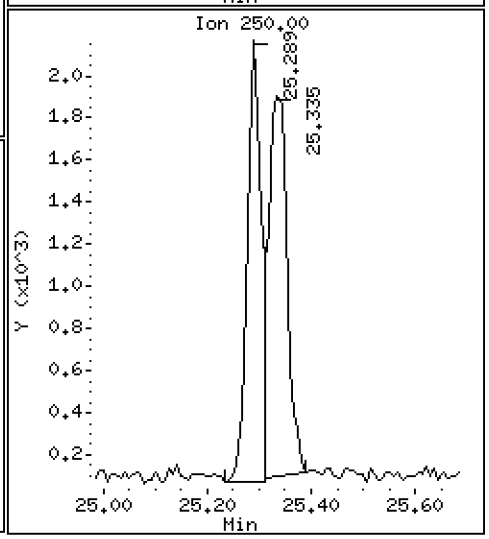












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

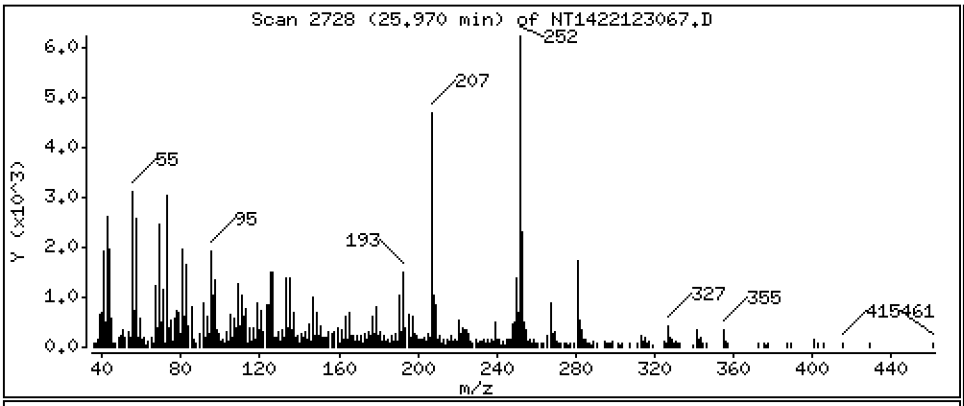
Operator: VTS

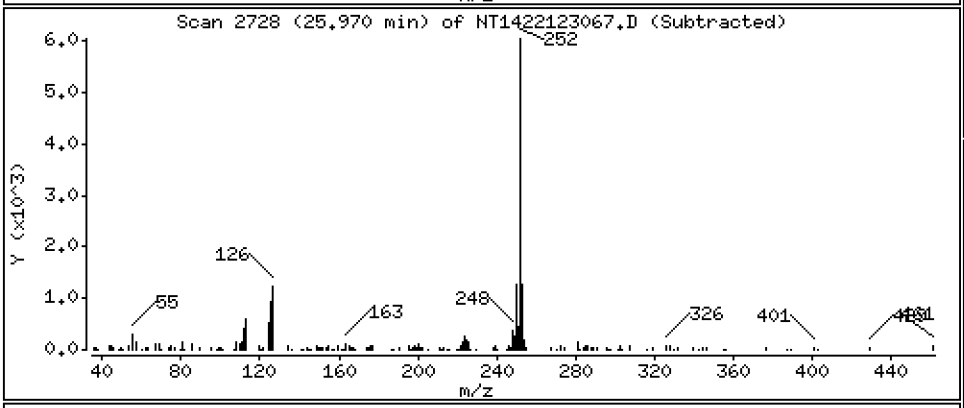
Column phase: ZB-5msi

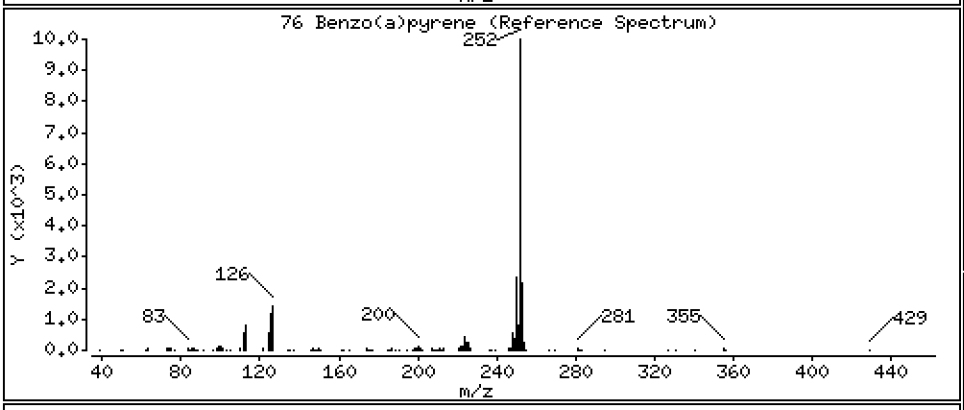
Column diameter: 0.25

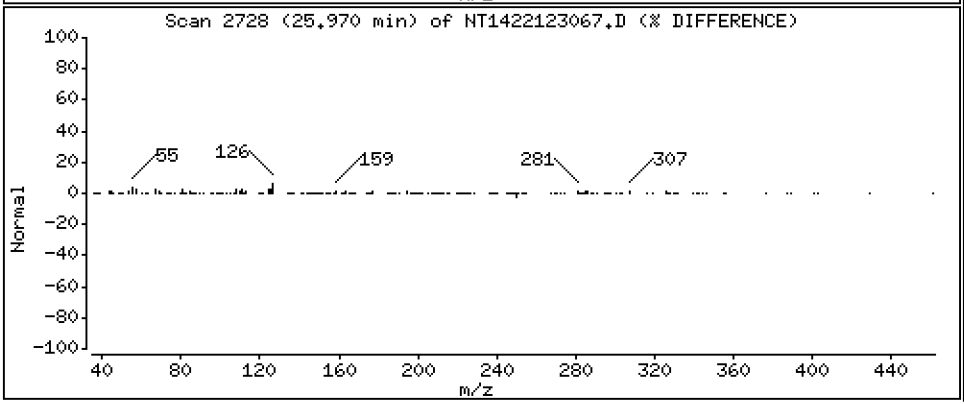
76 Benzo(a)pyrene

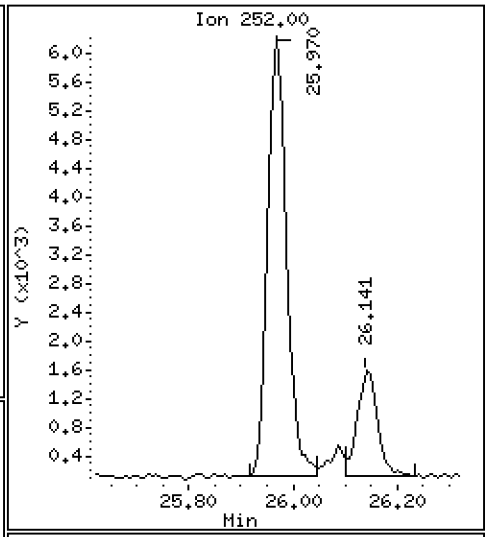
Concentration: 0.2524 ug/mL

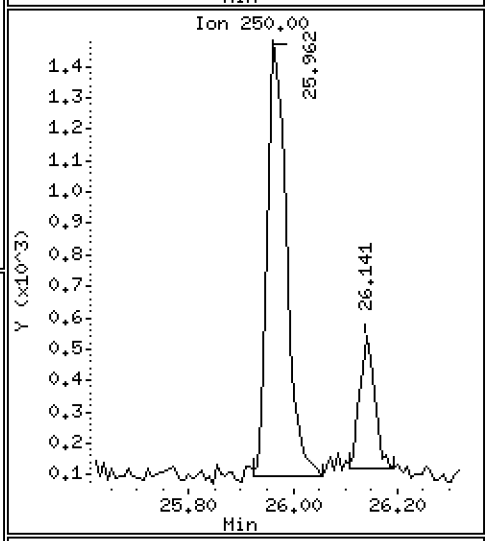


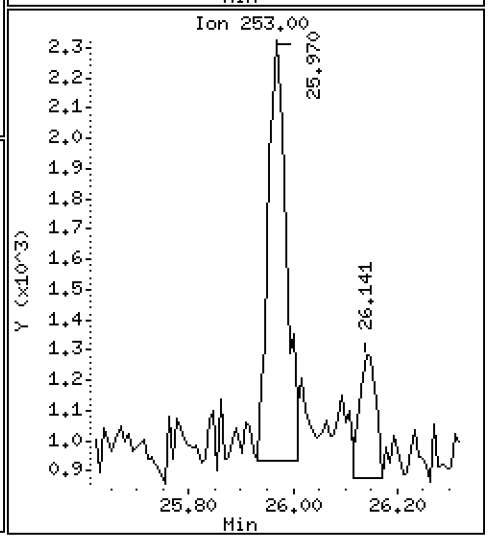












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

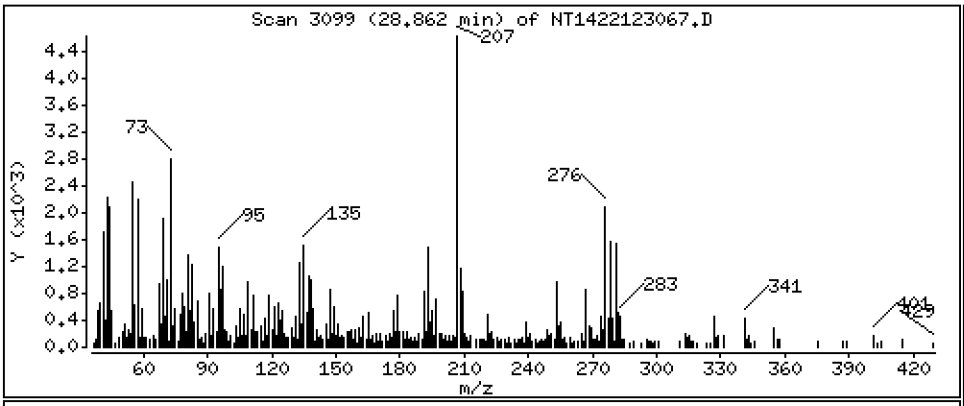
Operator: VTS

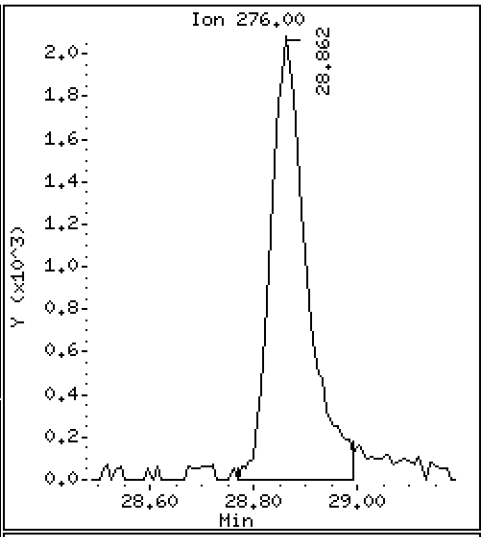
Column phase: ZB-5msi

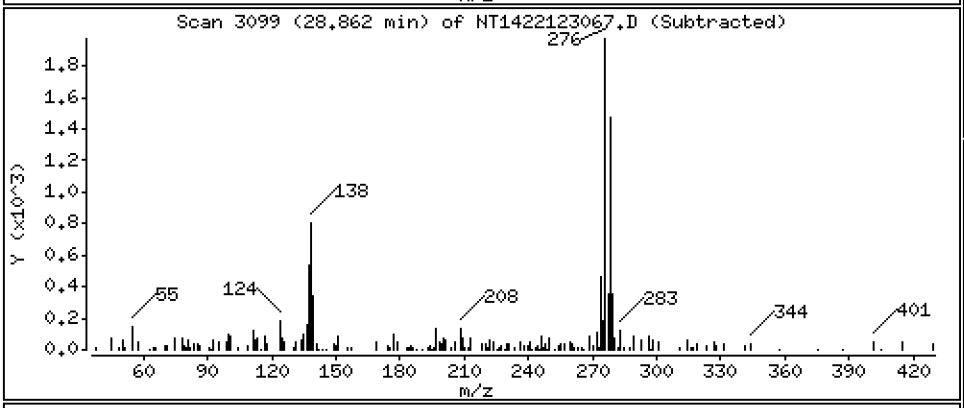
Column diameter: 0.25

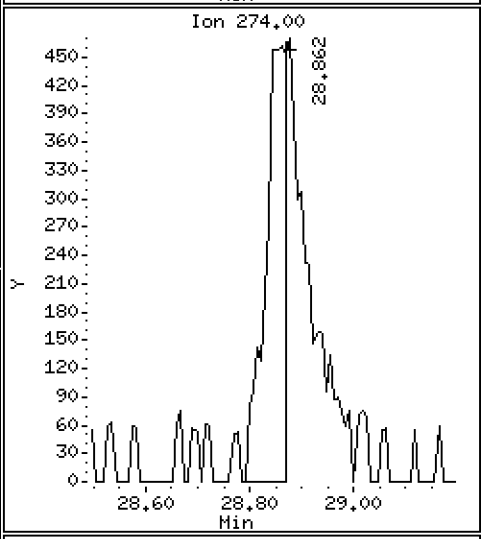
78 Indeno(1,2,3-cd)pyrene

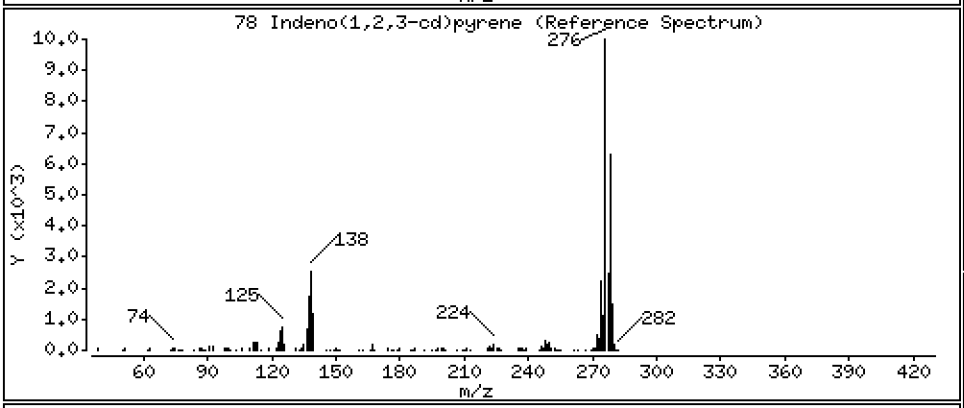
Concentration: 0.1494 ug/mL

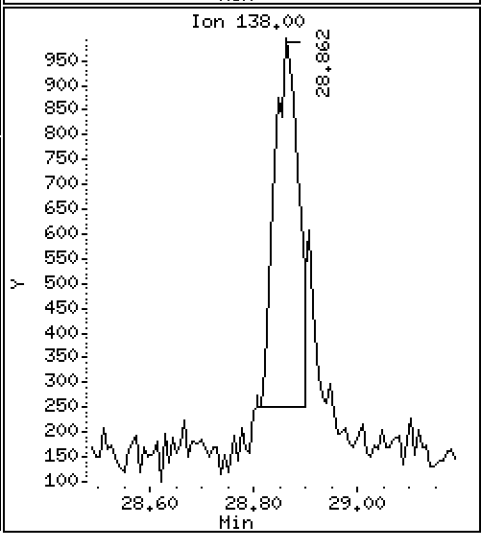


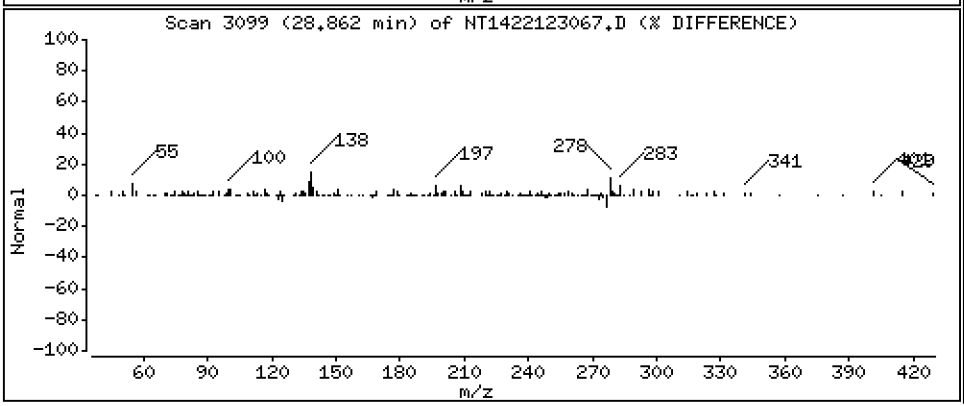












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

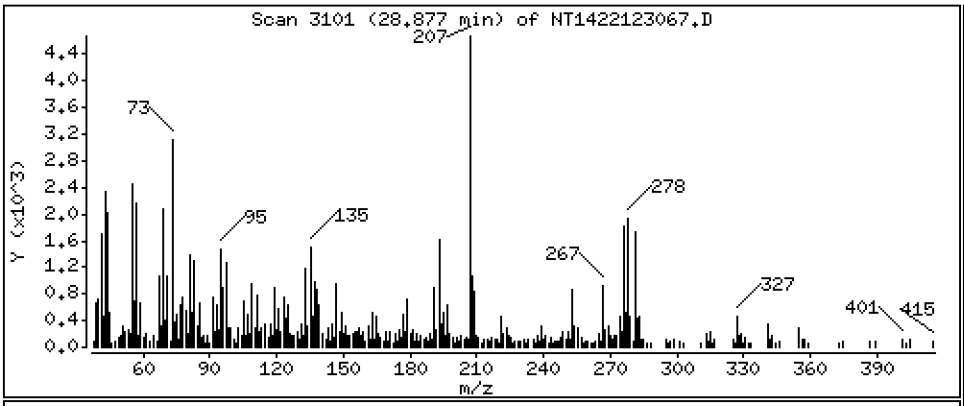
Operator: VTS

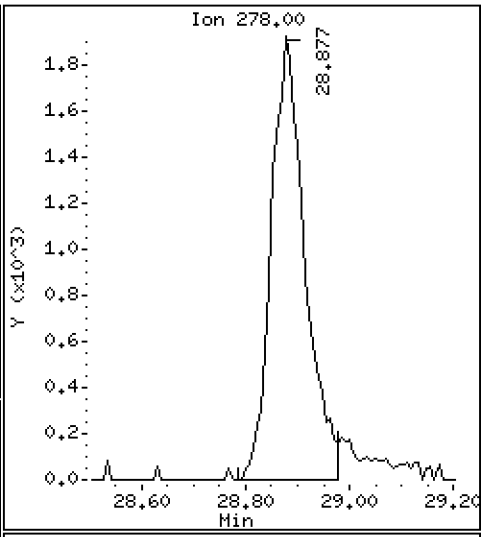
Column phase: ZB-5msi

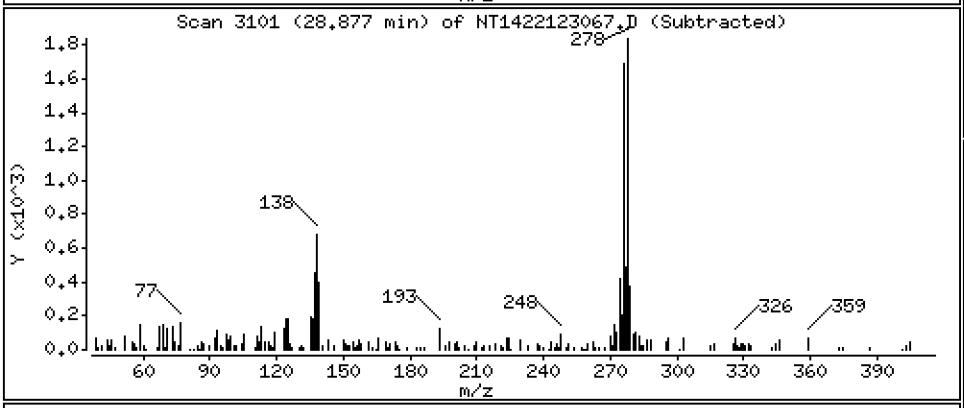
Column diameter: 0.25

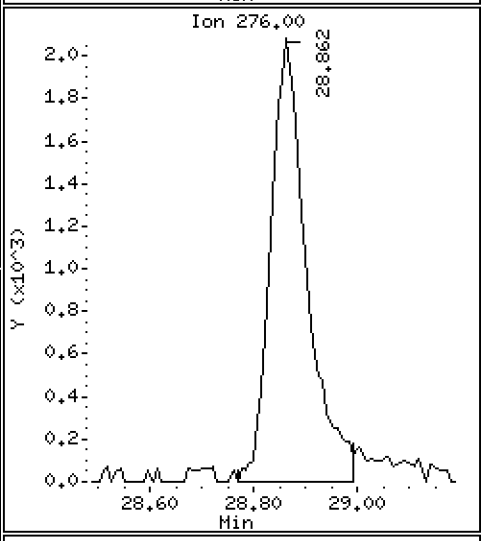
79 Dibenzo(a,h)anthracene

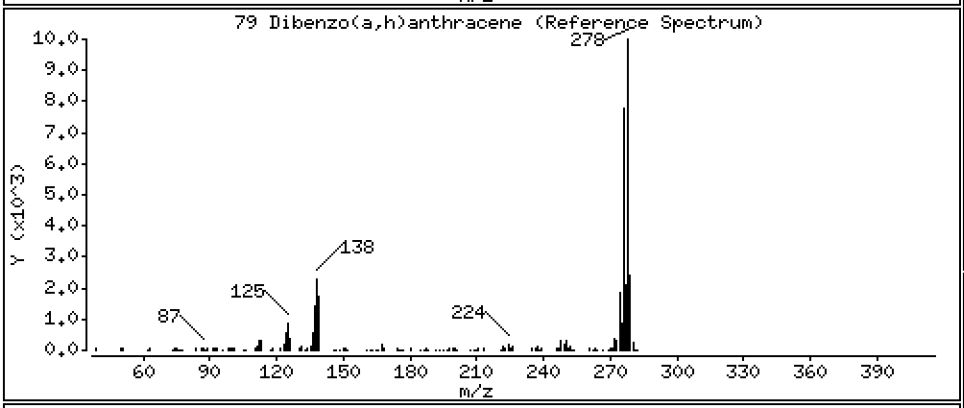
Concentration: 0.1509 ug/mL

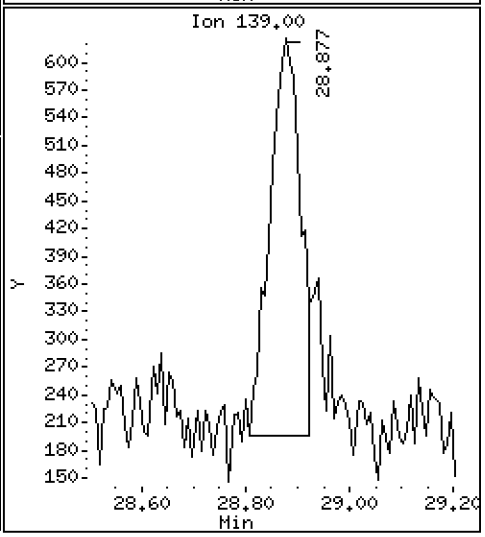


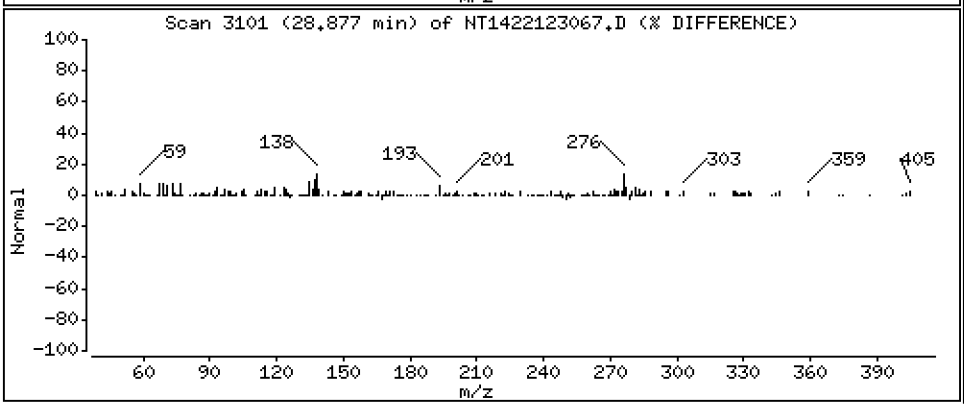












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

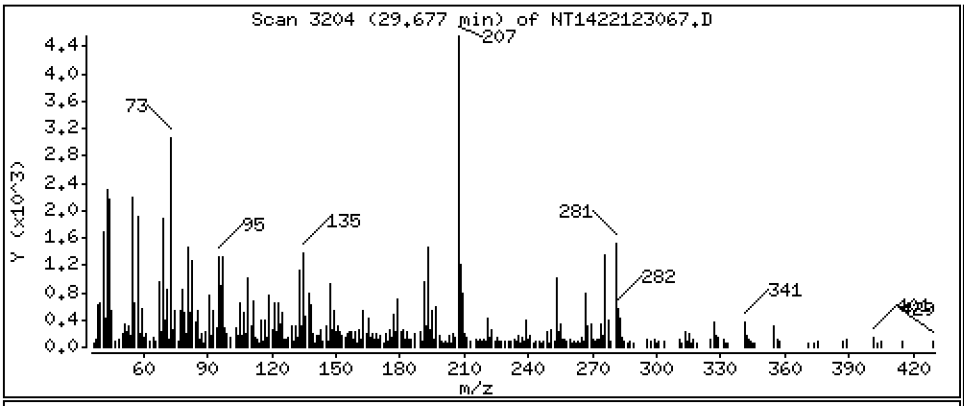
Operator: VTS

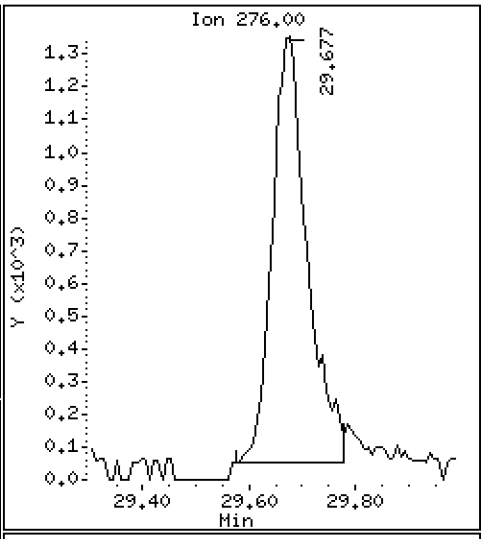
Column phase: ZB-5msi

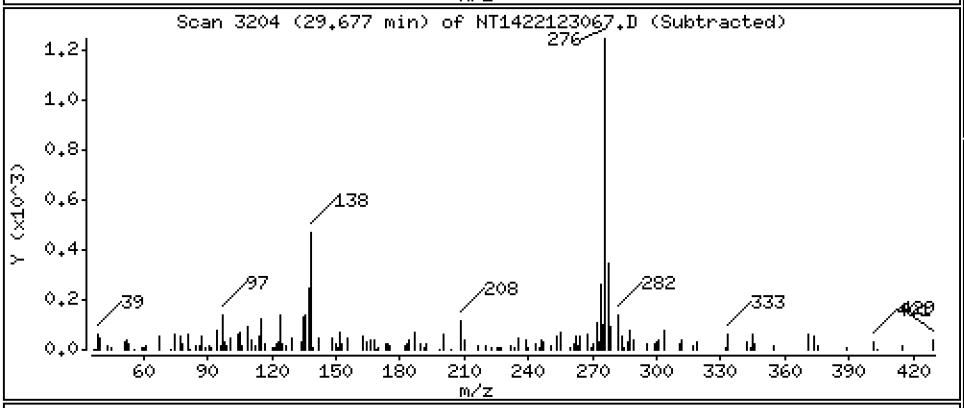
Column diameter: 0.25

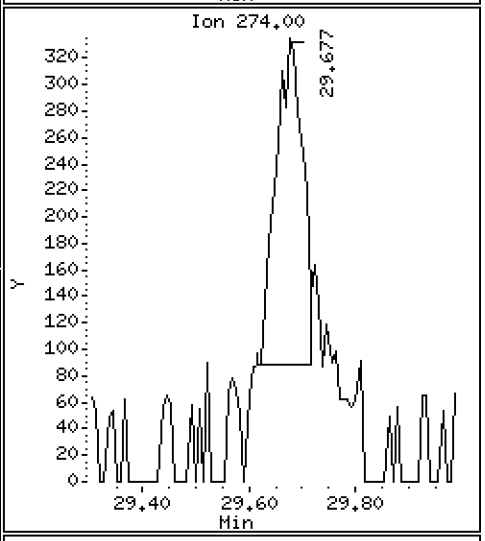
80 Benzo(g,h,i)perylene

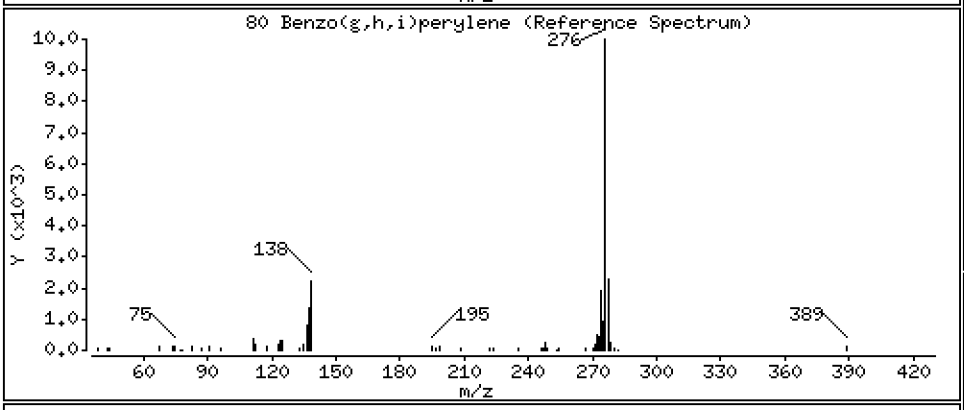
Concentration: 0.1058 ug/mL

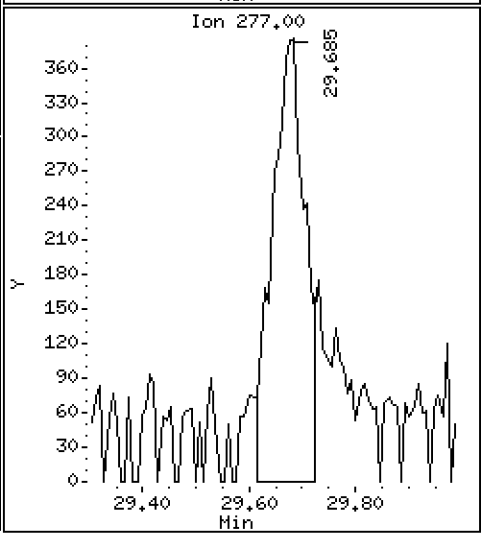


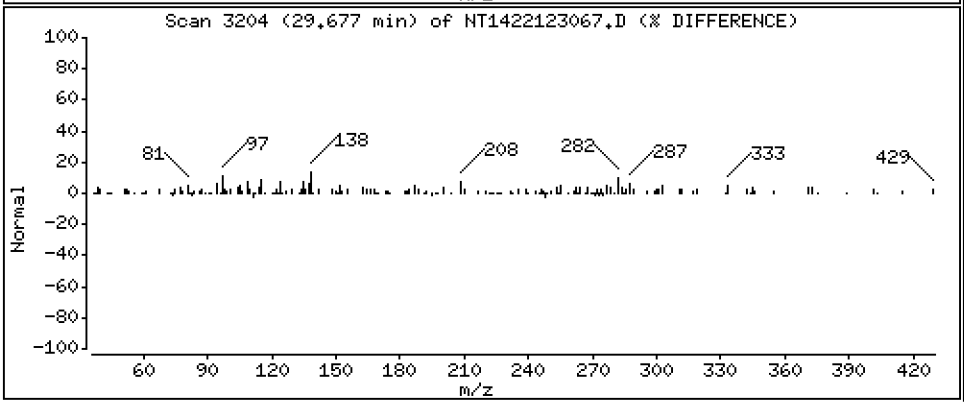












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123067.D

Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

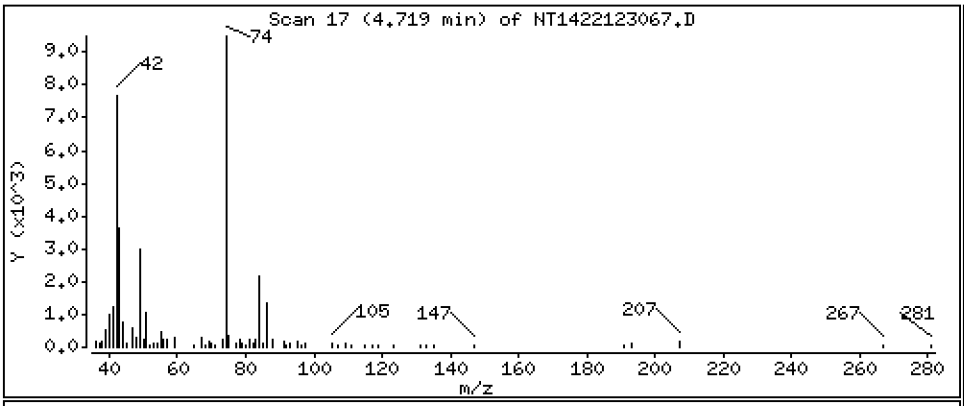
Operator: VTS

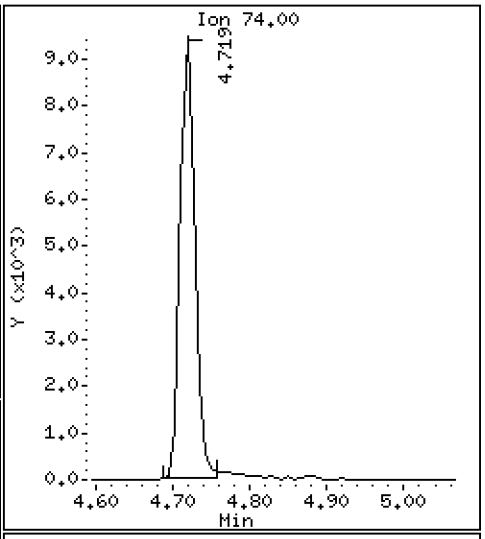
Column phase: ZB-5msi

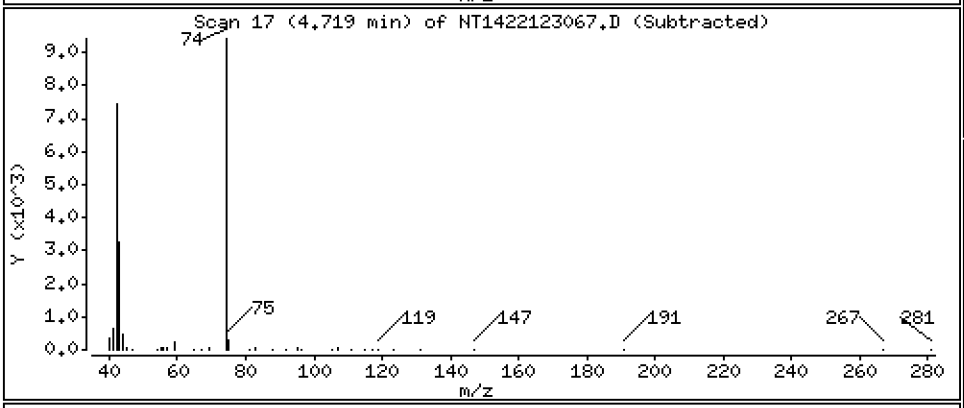
Column diameter: 0.25

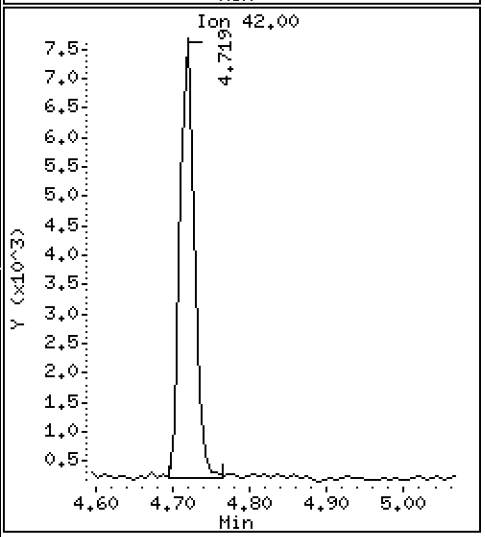
90 N-Nitrosodimethylamine

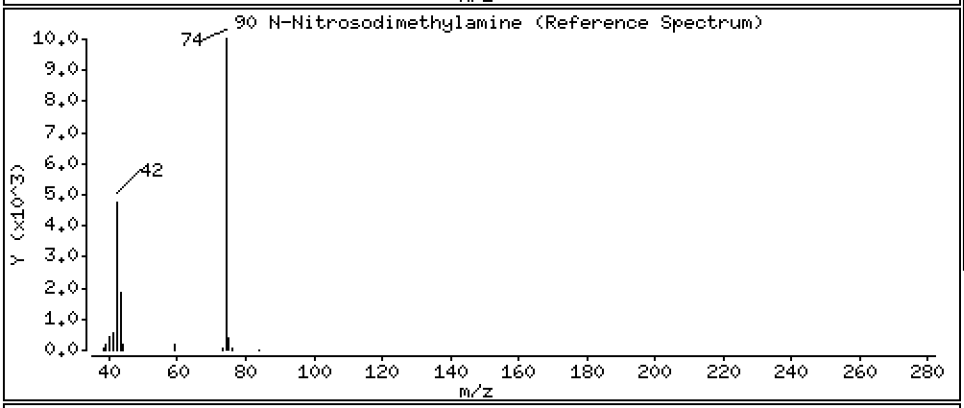
Concentration: 0.4928 ug/mL

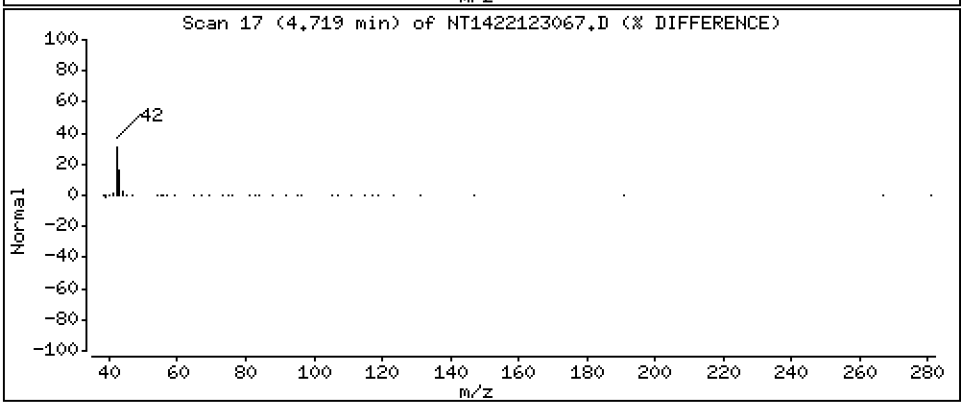












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

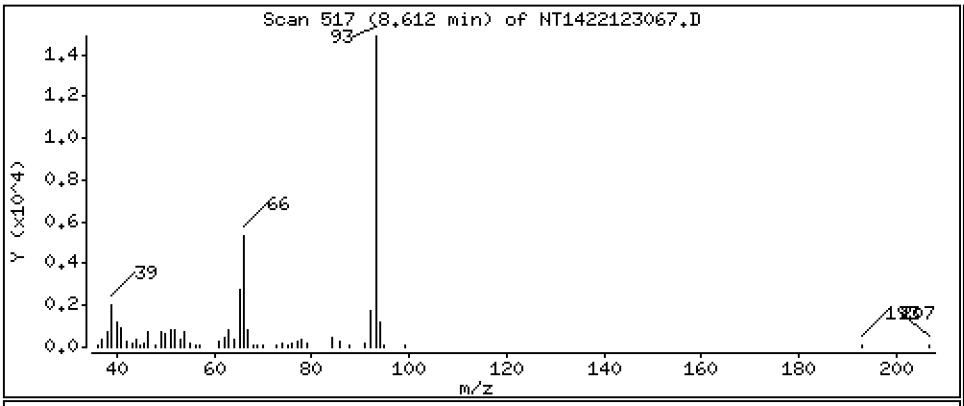
Operator: VTS

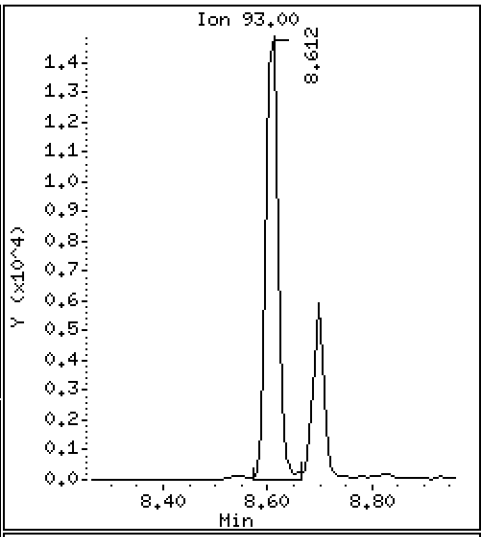
Column phase: ZB-5msi

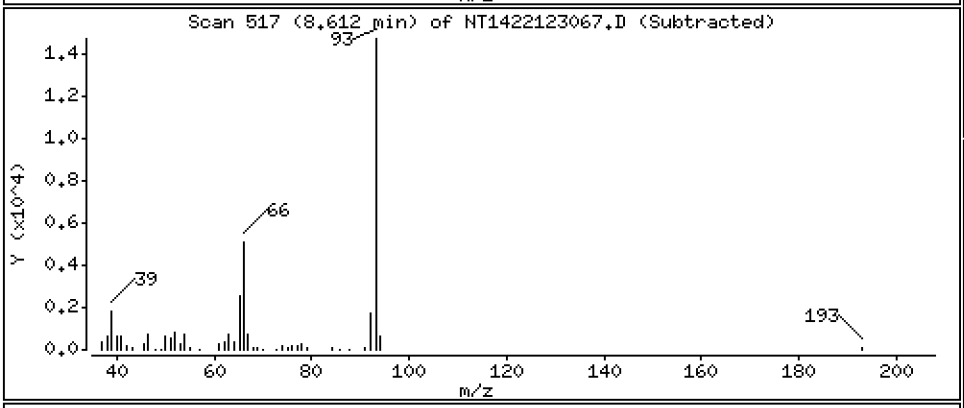
Column diameter: 0.25

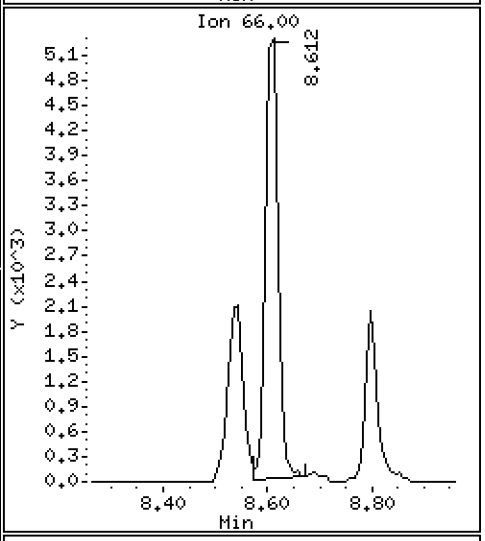
91 Aniline

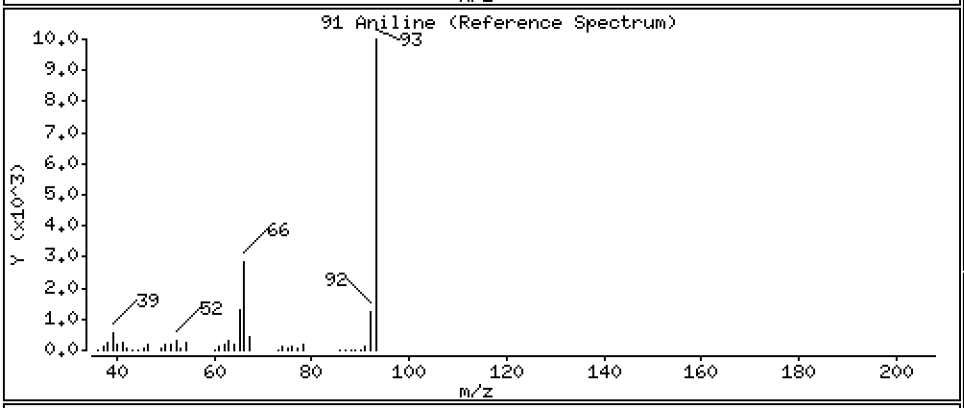
Concentration: 0.4840 ug/mL

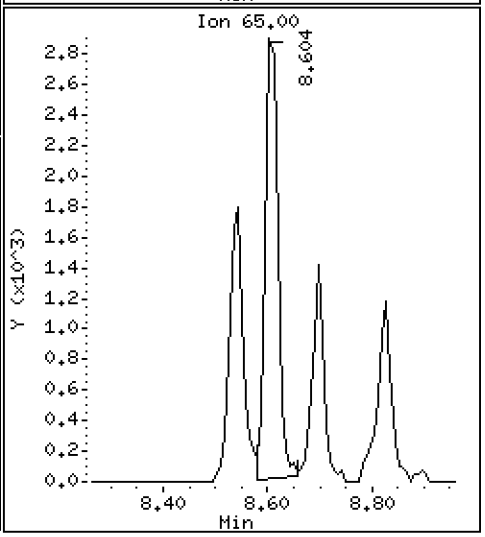


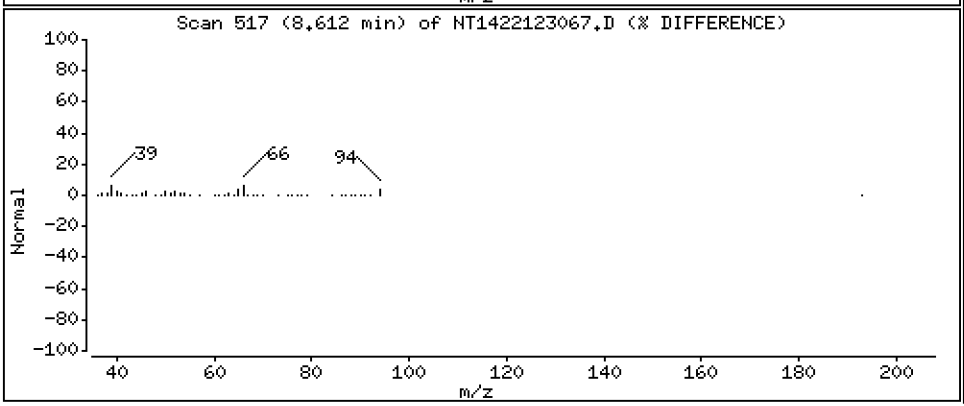












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123067.D

Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

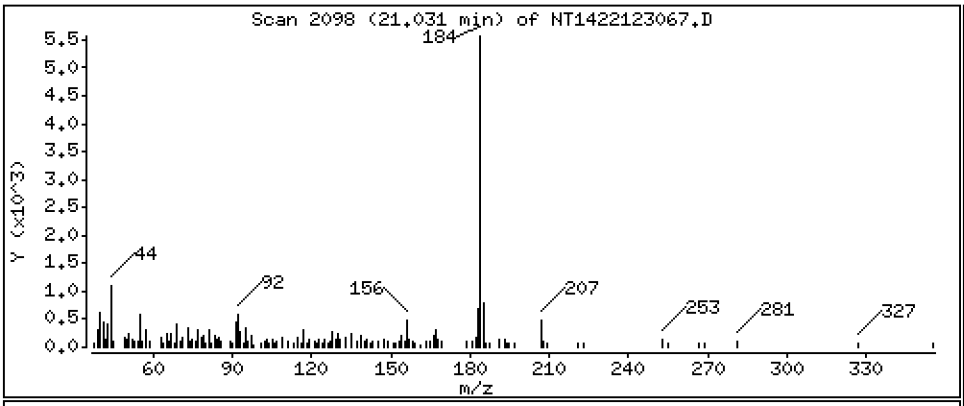
Operator: VTS

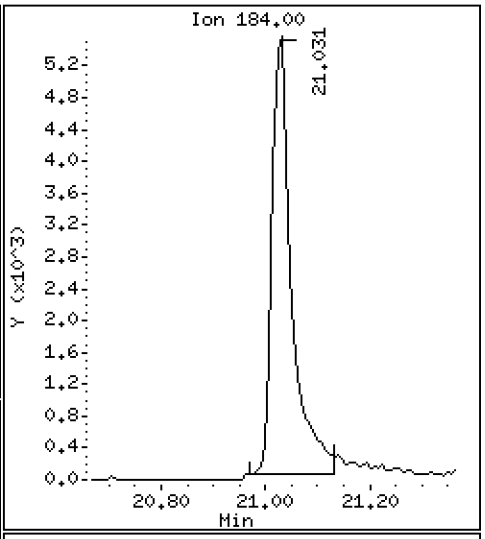
Column phase: ZB-5msi

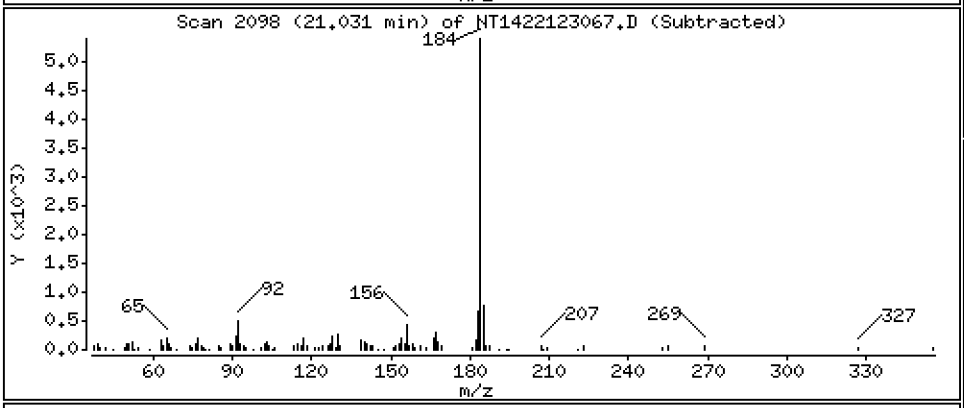
Column diameter: 0.25

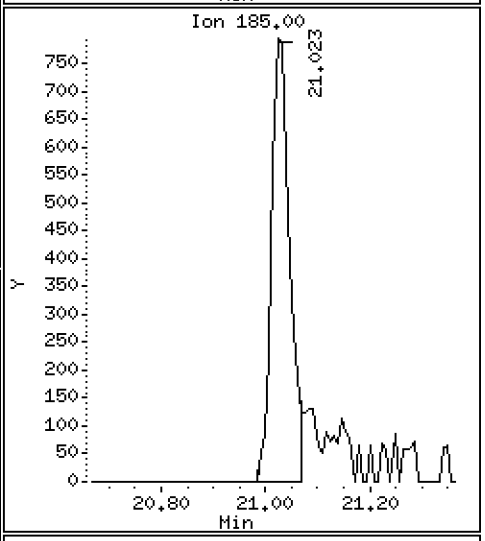
93 Benzidine

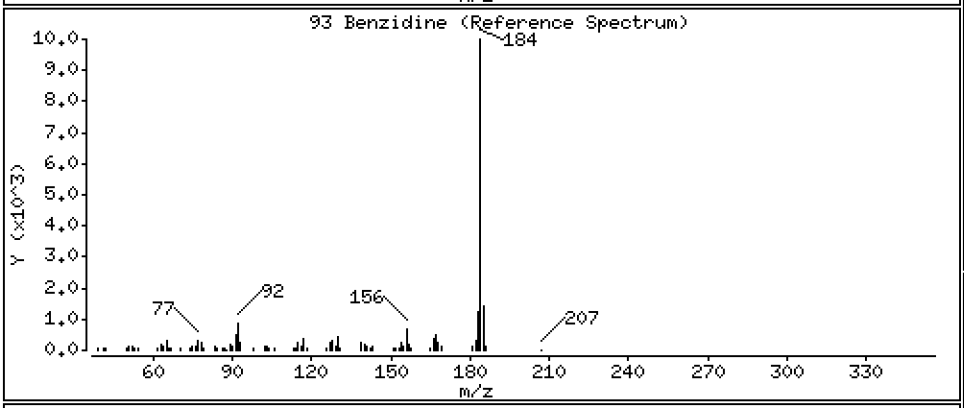
Concentration: 0.4312 ug/mL

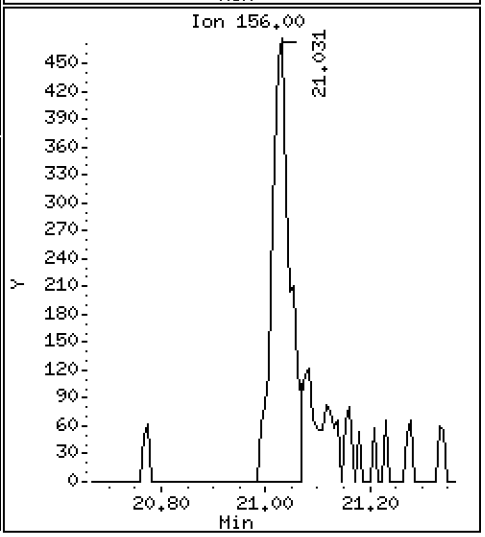


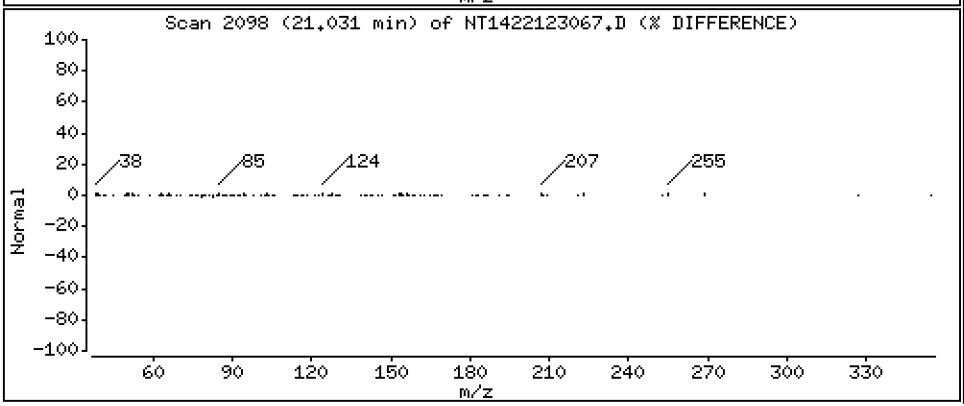












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123067.D

Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

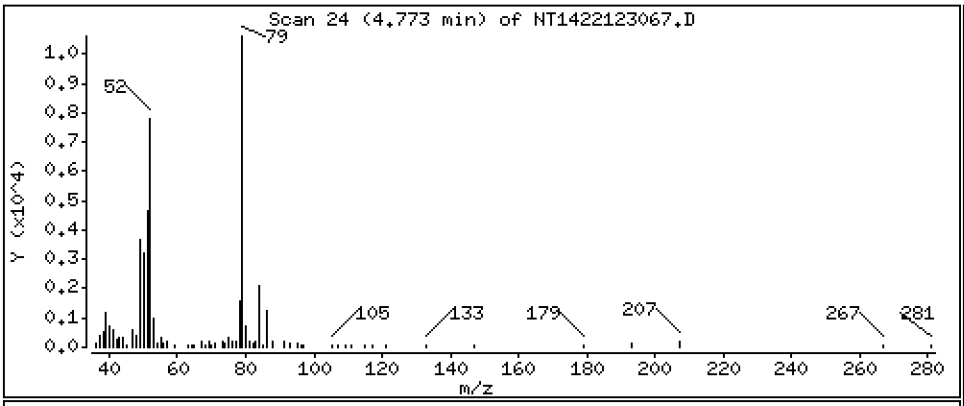
Operator: VTS

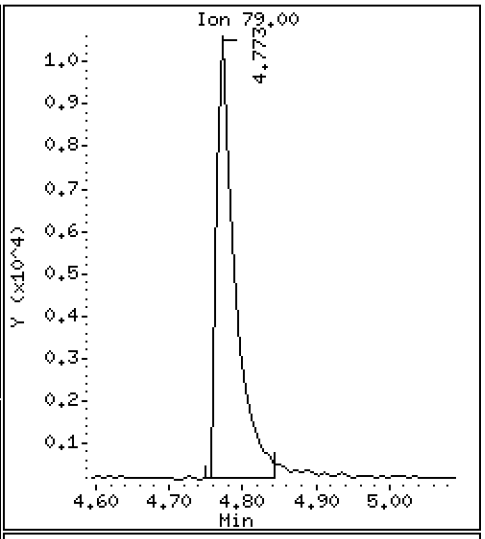
Column phase: ZB-5msi

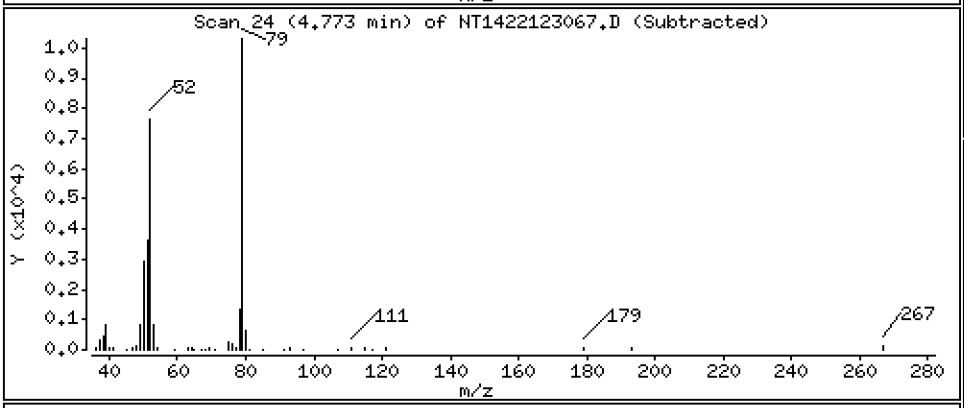
Column diameter: 0.25

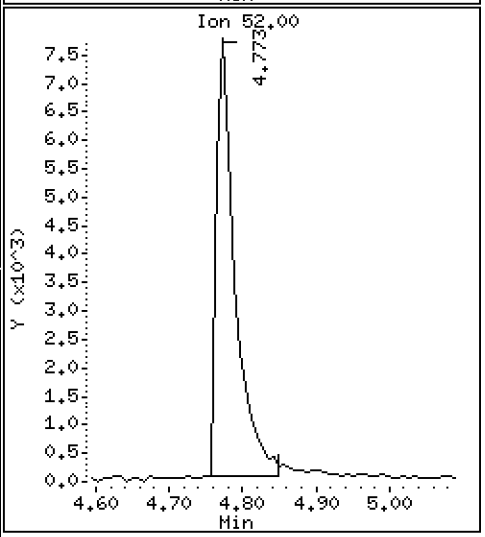
103 Pyridine

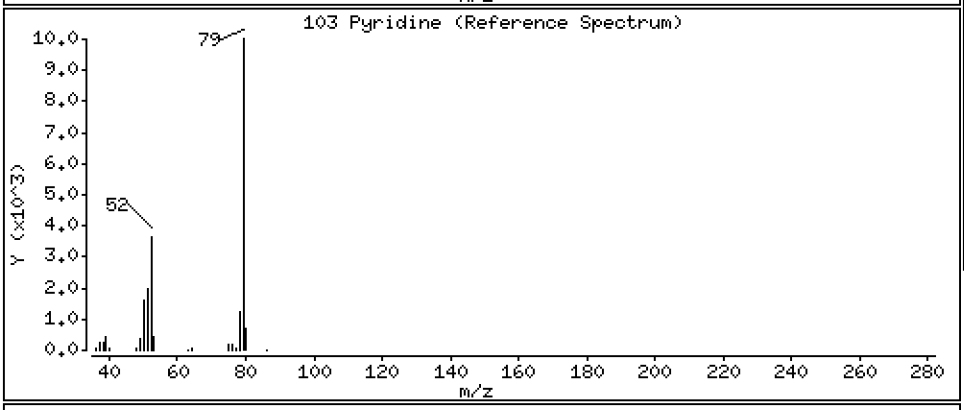
Concentration: 0.2348 ug/mL

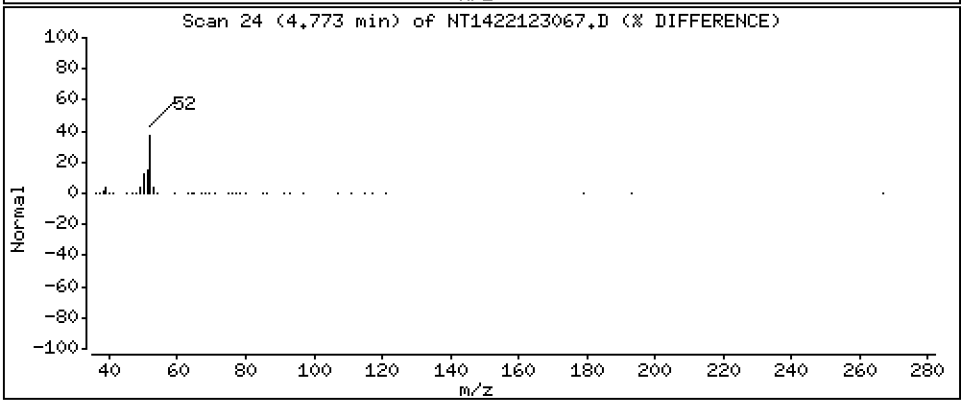












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123067.D

Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

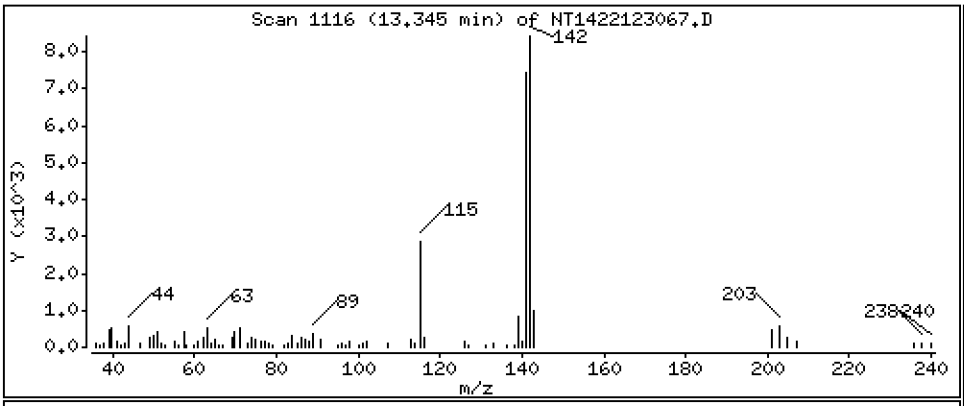
Operator: VTS

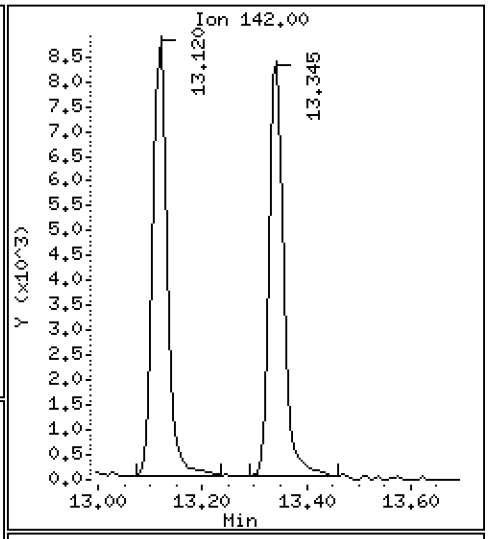
Column phase: ZB-5msi

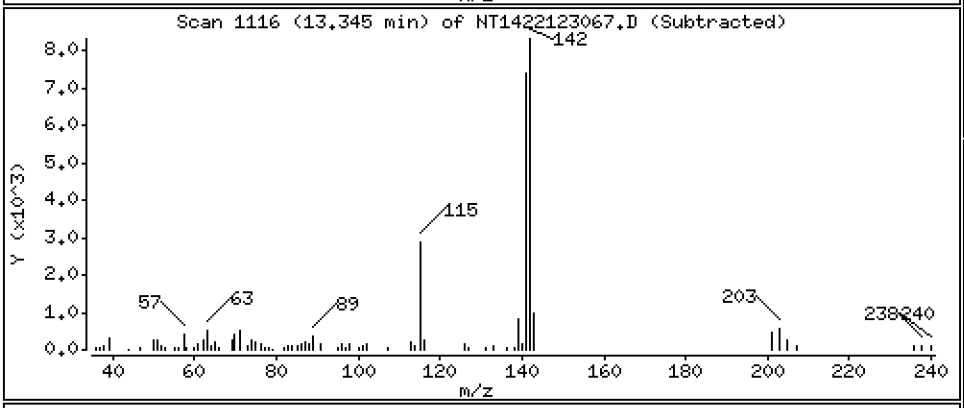
Column diameter: 0.25

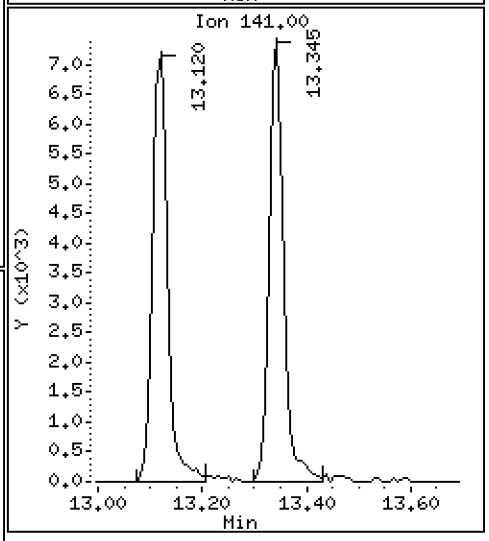
105 1-methylnaphthalene

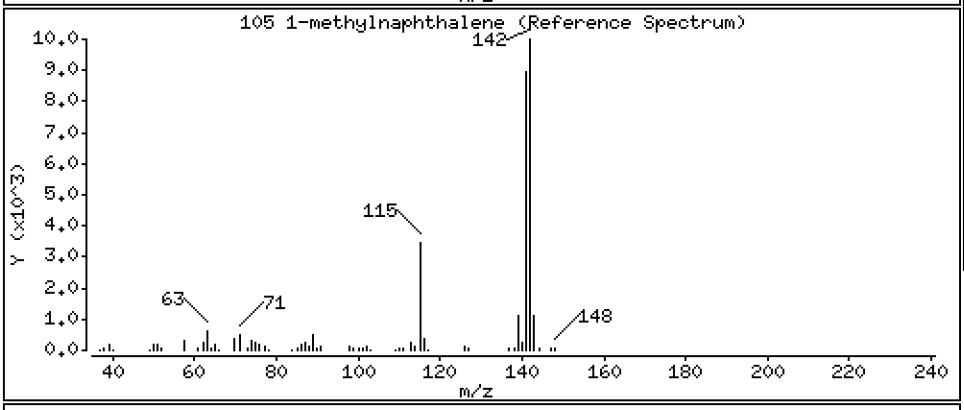
Concentration: 0.2273 ug/mL

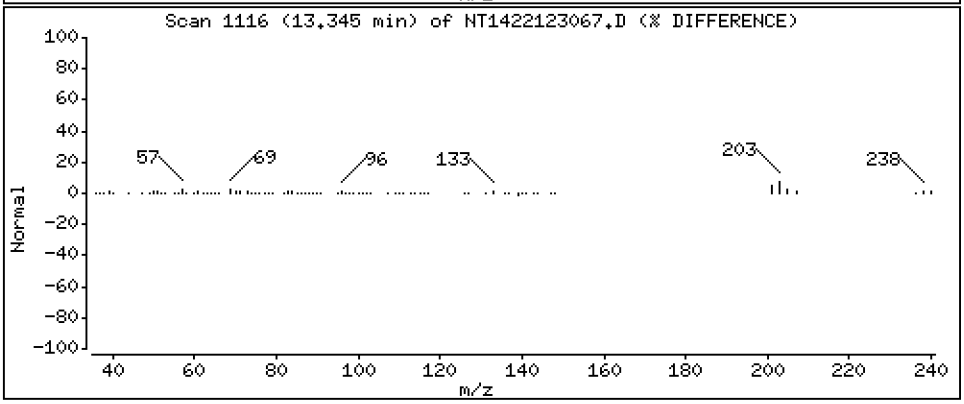












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

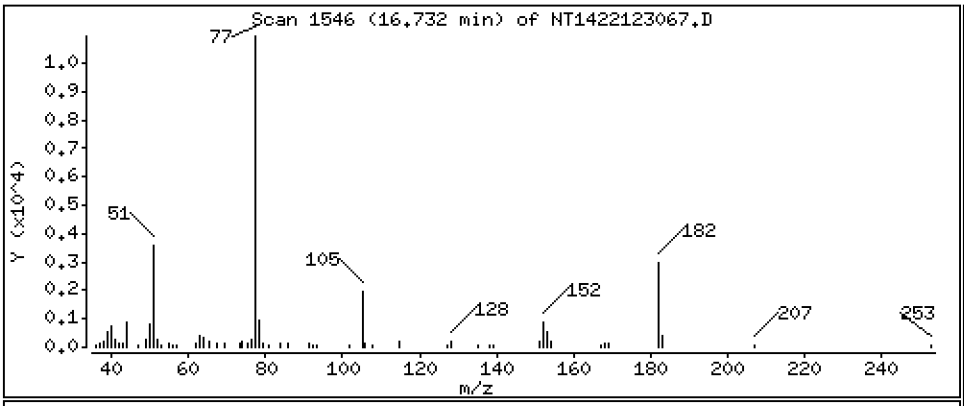
Operator: VTS

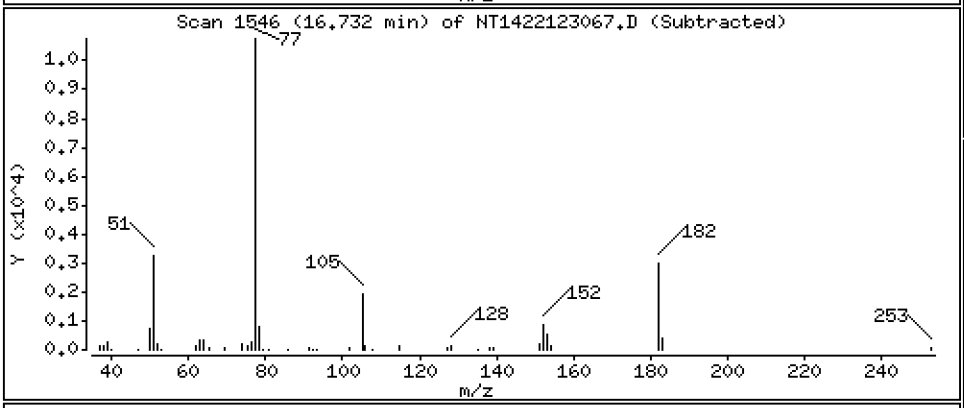
Column phase: ZB-5msi

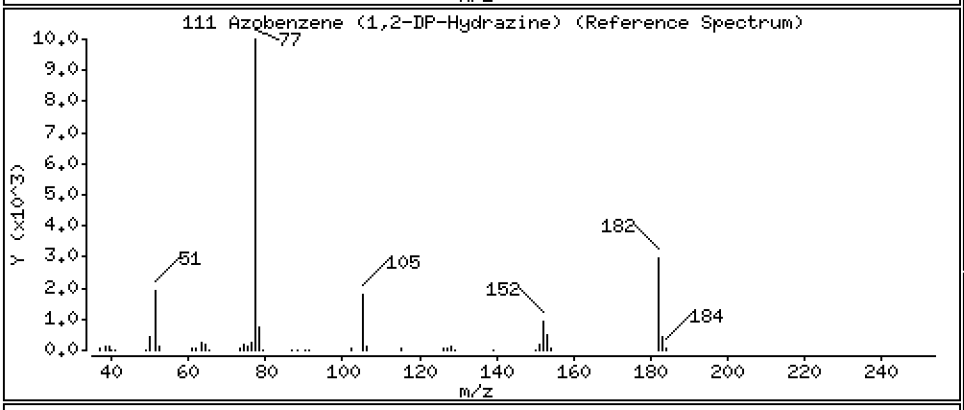
Column diameter: 0.25

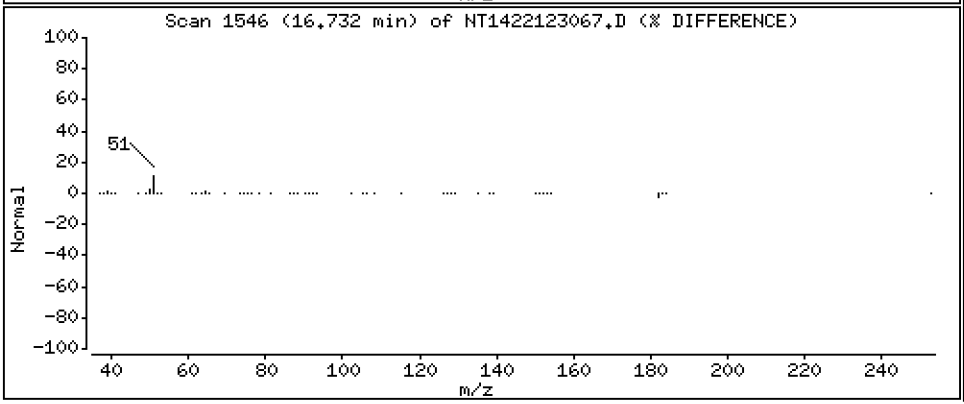
111 Azobenzene (1,2-DP-Hydrazine)

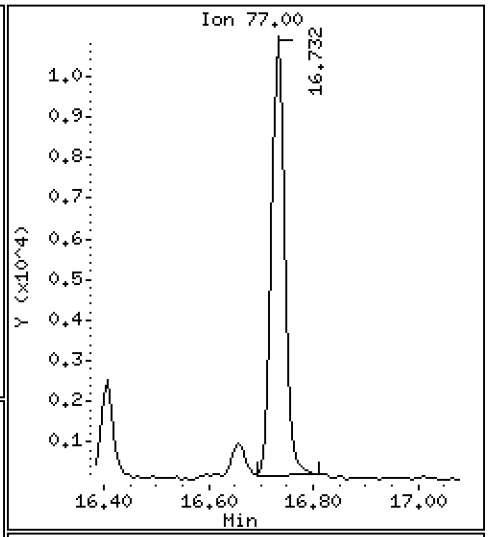
Concentration: 0.2385 ug/mL

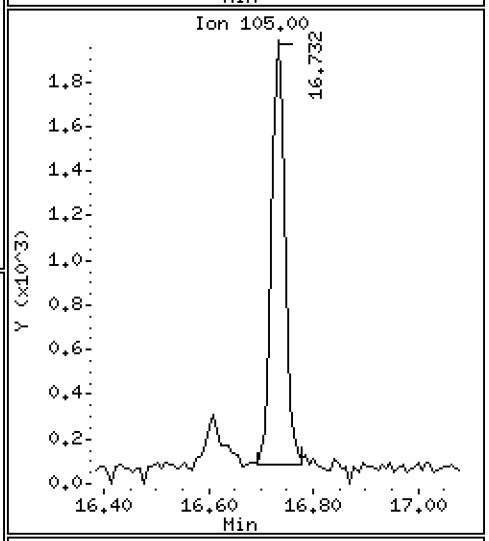


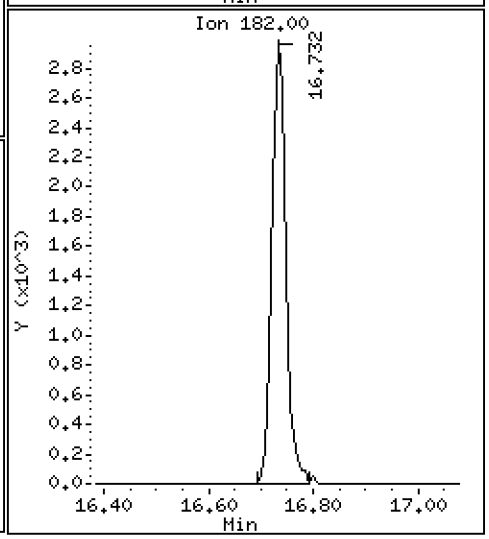












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123067.D

Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

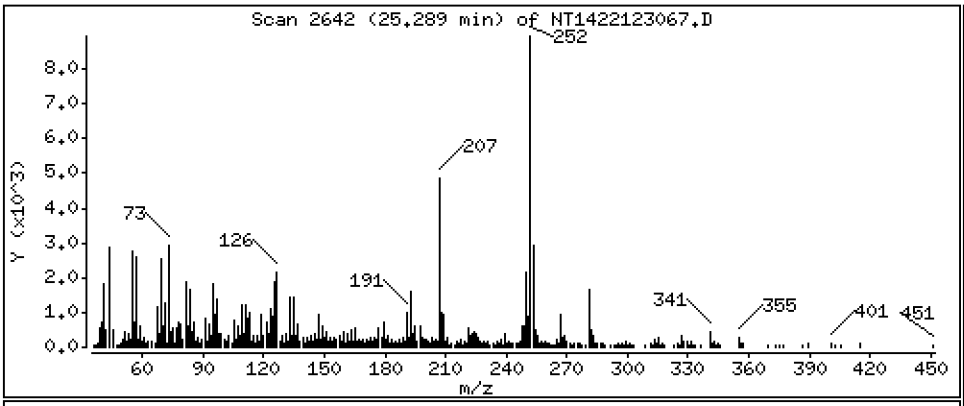
Operator: VTS

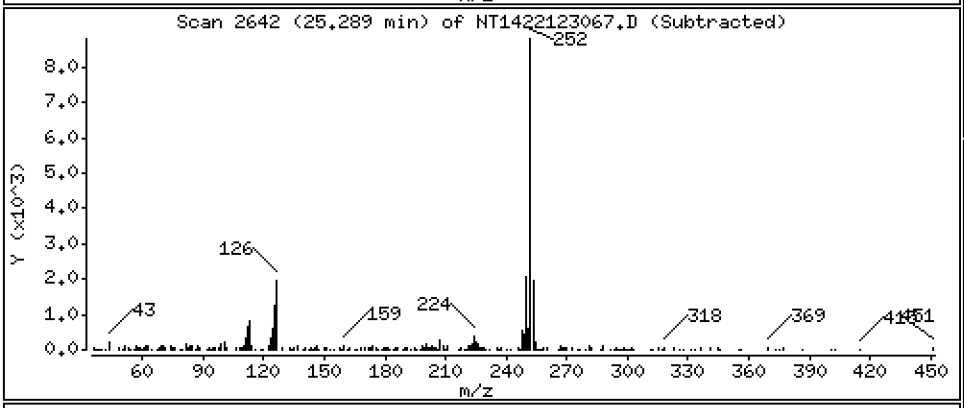
Column phase: ZB-5msi

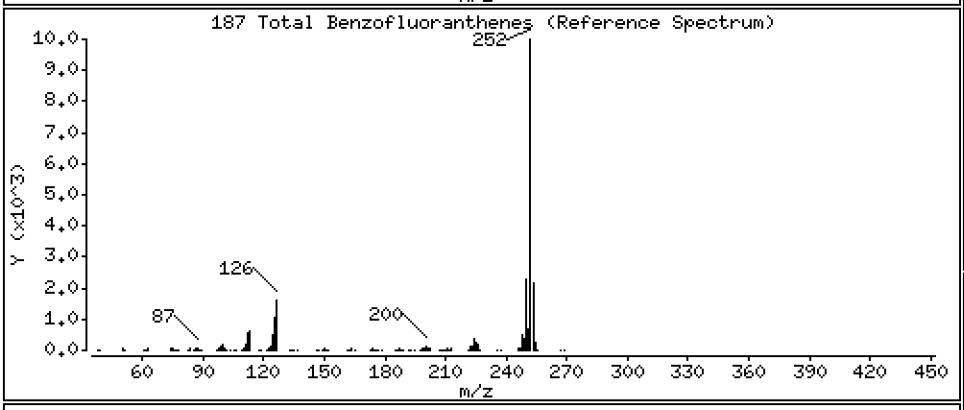
Column diameter: 0.25

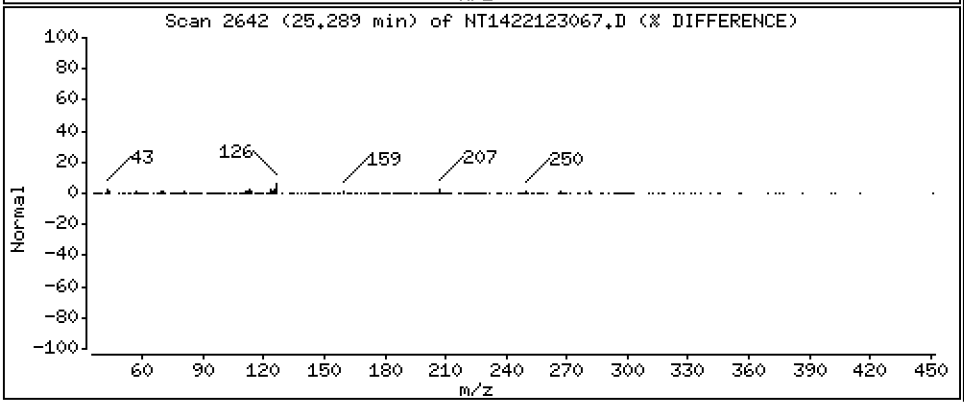
187 Total Benzofluoranthenes

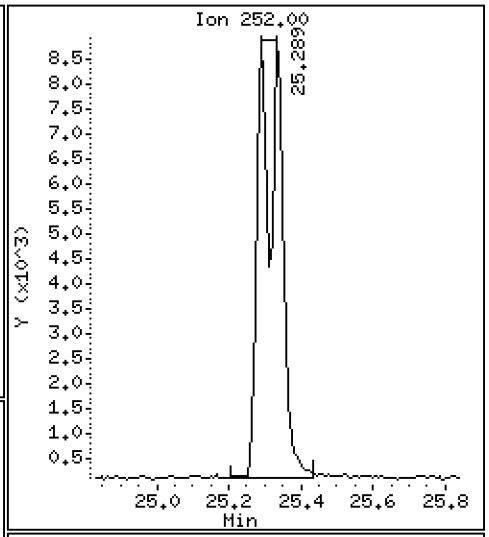
Concentration: 0.5264 ug/mL

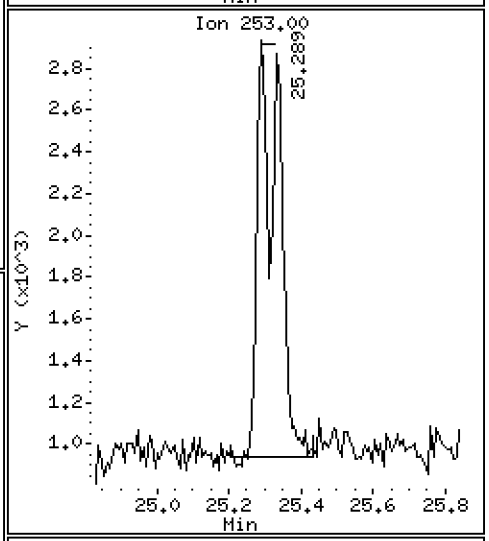


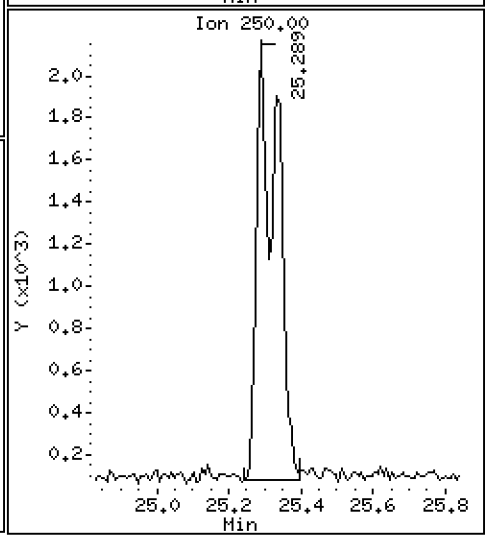












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123067.D

Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

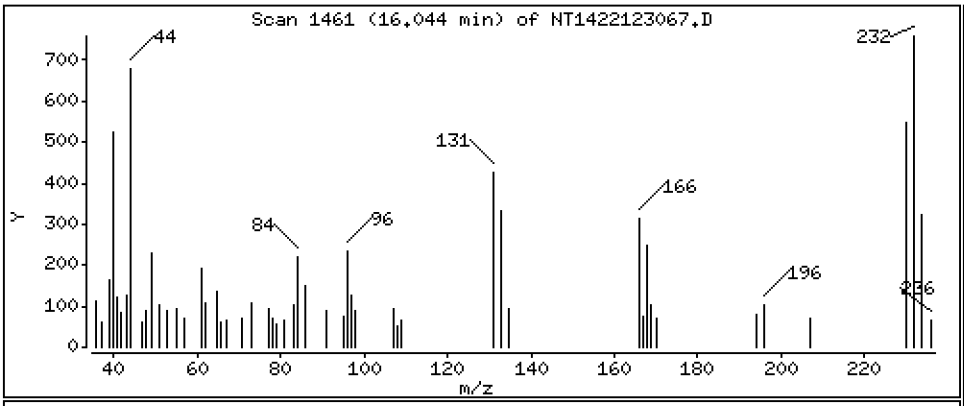
Operator: VTS

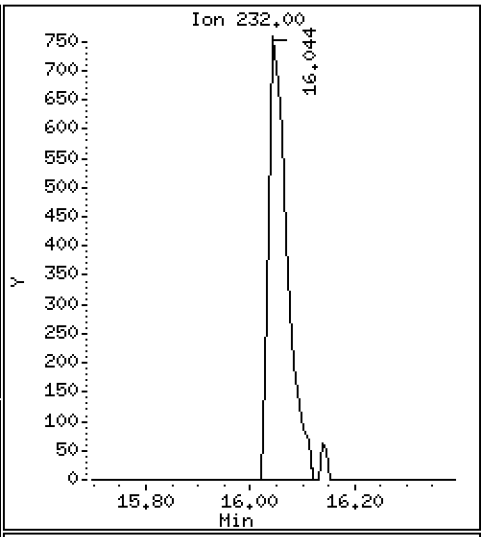
Column phase: ZB-5msi

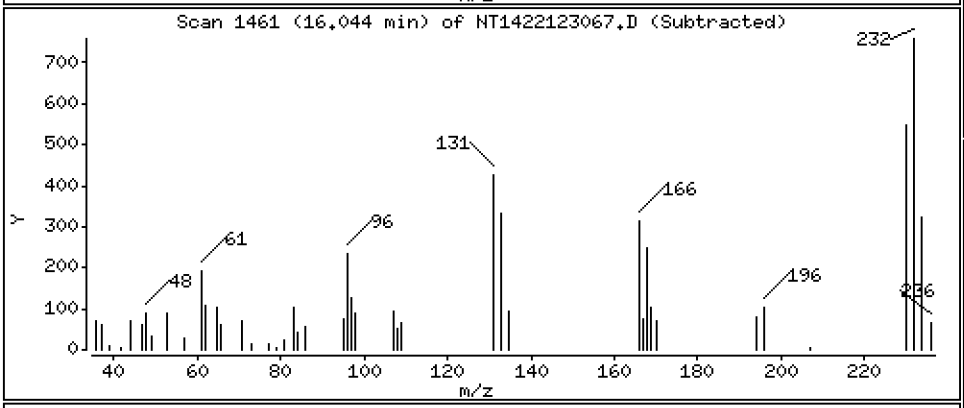
Column diameter: 0.25

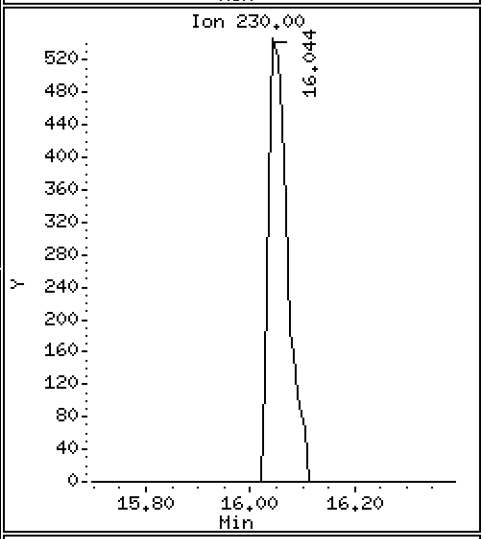
120 2,3,4,6-Tetrachlorophenol

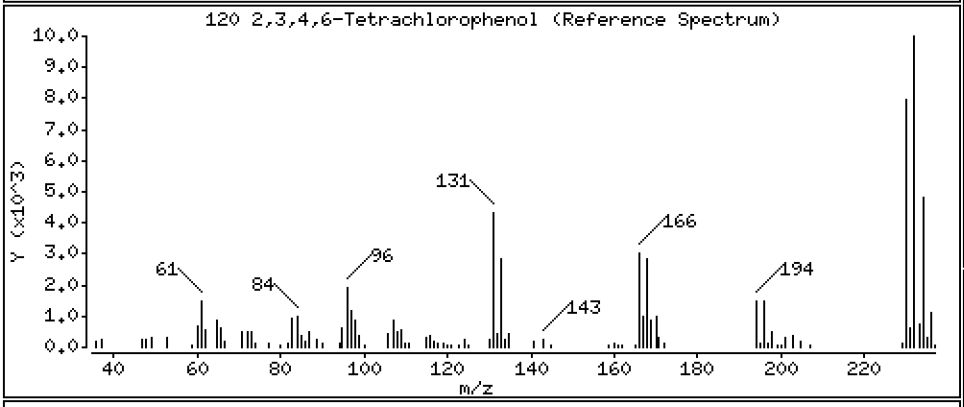
Concentration: 0.1280 ug/mL

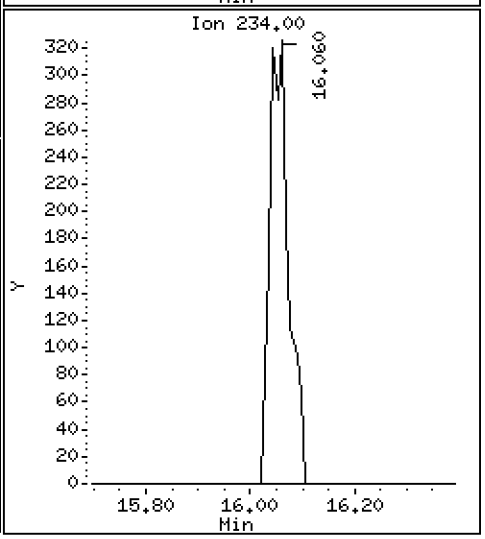


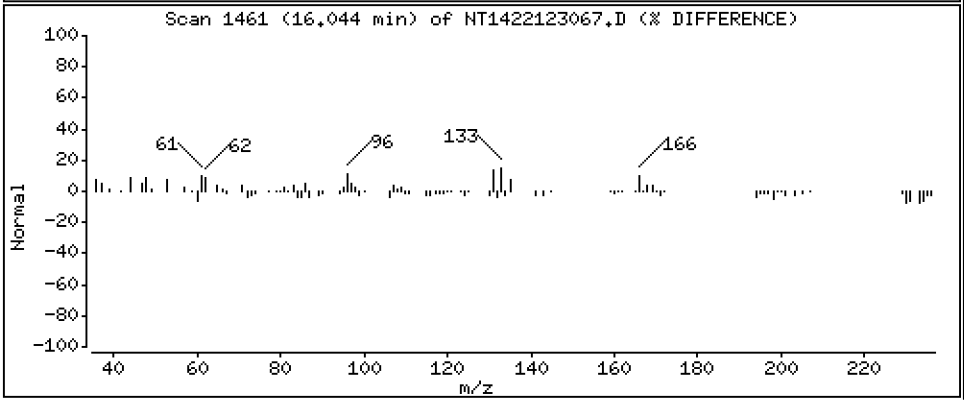












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230C.b\NT1422123067.D
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Inj Date : 01-JAN-2023 00:06 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-LCV3
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.919	6.919	(0.755)	12469	0.35660	0.3566
$	2 Phenol-d5	99	8.519	8.519	(0.930)	13476	0.31186	0.3119
	3 Phenol	94	8.542	8.542	(0.932)	11161	0.22731	0.2273
$	5 2-Chlorophenol-d4	132	8.797	8.797	(0.960)	12221	0.33675	0.3367
	4 Bis(2-Chloroethyl)ether	93	8.696	8.696	(0.949)	8093	0.23927	0.2393
	6 2-Chlorophenol	128	8.827	8.827	(0.964)	9811	0.24616	0.2462
	7 1,3-Dichlorobenzene	146	9.098	9.098	(0.993)	10440	0.24702	0.2470
*	8 1,4-Dichlorobenzene-d4	152	9.160	9.160	(1.000)	109143	4.00000	
	9 1,4-Dichlorobenzene	146	9.191	9.191	(1.003)	10018	0.25020	0.2502
$	10 1,2-Dichlorobenzene-d4	152	9.525	9.525	(1.040)	5962	0.24036	0.2404
	12 1,2-Dichlorobenzene	146	9.556	9.556	(1.043)	9504	0.24203	0.2420
	11 Benzyl alcohol	108	9.440	9.440	(1.030)	3613	0.16529	0.1653(M)
	14 2,2'-oxybis(1-Chloropropane)	121	9.735	9.735	(1.063)	2767	0.24305	0.2430
	13 2-Methylphenol	108	9.665	9.665	(1.055)	7875	0.22072	0.2207
	17 Hexachloroethane	117	10.154	10.154	(1.108)	2915	0.19795	0.1979
	16 N-Nitroso-di-n-propylamine	70	9.991	9.998	(1.091)	5112	0.23520	0.2352
	15 4-Methylphenol	108	9.936	9.936	(1.085)	7826	0.20792	0.2079
$	18 Nitrobenzene-d5	82	10.262	10.262	(0.880)	7594	0.22651	0.2265
	19 Nitrobenzene	77	10.293	10.301	(0.882)	7425	0.22300	0.2230
	20 Isophorone	82	10.743	10.751	(0.921)	8370	0.19724	0.1972
	21 2-Nitrophenol	139	10.937	10.937	(0.938)	4304	0.21163	0.2116
	22 2,4-Dimethylphenol	107	10.992	10.992	(0.942)	15950	0.45898	0.4590
	23 Bis(2-Chloroethoxy)methane	93	11.186	11.186	(0.959)	7789	0.23594	0.2359
	24 Benzoic acid	105	11.131	11.209	(0.954)	4437	0.20974	0.2097(M)
	25 2,4-Dichlorophenol	162	11.403	11.395	(0.977)	12011	0.41003	0.4100
	26 1,2,4-Trichlorobenzene	180	11.581	11.581	(0.993)	7605	0.24010	0.2401
*	27 Naphthalene-d8	136	11.666	11.673	(1.000)	397029	4.00000	
	28 Naphthalene	128	11.712	11.712	(1.004)	23009	0.23549	0.2355
	29 4-Chloroaniline	127	11.835	11.835	(1.015)	16324	0.40512	0.4051
	30 Hexachlorobutadiene	225	12.075	12.075	(1.035)	3740	0.23799	0.2380
	31 4-Chloro-3-methylphenol	107	12.826	12.810	(1.099)	11960	0.43265	0.4327
	32 2-Methylnaphthalene	142	13.120	13.120	(1.125)	16268	0.22698	0.2270
	33 Hexachlorocyclopentadiene	237	13.584	13.584	(0.887)	624	0.04042	0.04042

		QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
34	2,4,6-Trichlorophenol	196	13.754	13.739	(0.898)	5867	0.34421	0.3442
35	2,4,5-Trichlorophenol	196	13.839	13.816	(0.904)	7090	0.36041	0.3604
$ 36	2-Fluorobiphenyl	172	13.901	13.901	(0.908)	15298	0.22280	0.2228
37	2-Chloronaphthalene	162	14.118	14.118	(0.922)	13703	0.23460	0.2346
38	2-Nitroaniline	65	14.381	14.373	(0.939)	6597	0.42959	0.4296
39	Dimethylphthalate	163	14.799	14.799	(0.967)	12311	0.21377	0.2138
40	Acenaphthylene	152	14.993	14.993	(0.979)	20407	0.22913	0.2291
41	2,6-Dinitrotoluene	165	14.946	14.938	(0.976)	4965	0.38201	0.3820
* 42	Acenaphthene-d10	164	15.310	15.310	(1.000)	204214	4.00000	
43	3-Nitroaniline	138	15.240	15.225	(0.995)	5629	0.35634	0.3563
44	Acenaphthene	153	15.372	15.371	(1.004)	13024	0.23577	0.2358
45	2,4-Dinitrophenol	184	Compound Not Detected.					
46	Dibenzofuran	168	15.704	15.704	(1.026)	19925	0.24053	0.2405
47	4-Nitrophenol	109	15.665	15.557	(1.023)	2026	0.26799	0.2680(M)
48	2,4-Dinitrotoluene	165	15.758	15.750	(1.029)	6043	0.33888	0.3389
50	Diethylphthalate	149	16.260	16.268	(1.062)	20315	0.25952	0.2595
49	Fluorene	166	16.423	16.423	(1.073)	20566	0.23337	0.2334
51	4-Chlorophenyl-phenylether	204	16.407	16.407	(1.072)	9124	0.21148	0.2115
52	4-Nitroaniline	138	16.531	16.500	(1.080)	7107	0.37385	0.3738(M)
53	4,6-Dinitro-2-methylphenol	198	16.608	16.600	(0.905)	1281	0.09261	0.09261
54	N-Nitrosodiphenylamine	169	16.654	16.654	(0.907)	14191	0.25087	0.2509
$ 55	2,4,6-Tribromophenol	330	16.955	16.955	(1.107)	2149	0.22461	0.2246
56	4-Bromophenyl-phenylether	248	17.417	17.410	(0.949)	4781	0.22320	0.2232
57	Hexachlorobenzene	284	17.734	17.734	(0.966)	5567	0.23683	0.2368
58	Pentachlorophenol	266	18.106	18.090	(0.986)	206	0.02024	0.02024(M)
* 59	Phenanthrene-d10	188	18.361	18.361	(1.000)	329657	4.00000	
60	Phenanthrene	178	18.408	18.408	(1.003)	20593	0.23959	0.2396
61	Anthracene	178	18.500	18.500	(1.008)	19055	0.23223	0.2322
62	Carbazole	167	18.841	18.825	(1.026)	18308	0.23080	0.2308
63	Di-n-butylphthalate	149	19.615	19.614	(1.068)	20354	0.22726	0.2273
64	Fluoranthene	202	20.791	20.791	(0.889)	20667	0.23809	0.2381
65	Pyrene	202	21.216	21.216	(0.907)	21300	0.23339	0.2334
$ 66	Terphenyl-d14	244	21.495	21.495	(0.919)	14382	0.22224	0.2222
67	Butylbenzylphthalate	149	22.408	22.408	(0.958)	9292	0.26989	0.2699
68	Benzo(a)anthracene	228	23.368	23.376	(0.999)	21552	0.26391	0.2639
* 69	Chrysene-d12	240	23.399	23.399	(1.000)	269585	4.00000	
70	3,3'-Dichlorobenzidine	252	23.322	23.322	(0.997)	20482	0.81929	0.8193
71	Chrysene	228	23.446	23.446	(1.002)	18735	0.24287	0.2429
72	bis(2-Ethylhexyl)phthalate	149	23.430	23.430	(0.959)	13030	0.26109	0.2611
* 134	Di-n-octylphthalate-d4	153	24.421	24.421	(1.000)	449369	4.00000	
73	Di-n-octylphthalate	149	24.429	24.429	(1.000)	26527	0.24592	0.2459
74	Benzo(b)fluoranthene	252	25.288	25.296	(0.969)	17280	0.24137	0.2414
75	Benzo(k)fluoranthene	252	25.335	25.335	(0.971)	20473	0.28097	0.2810
76	Benzo(a)pyrene	252	25.970	25.970	(0.996)	15021	0.25240	0.2524
* 77	Perylene-d12	264	26.086	26.086	(1.000)	227797	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.861	28.838	(1.106)	10107	0.14940	0.1494
79	Dibenzo(a,h)anthracene	278	28.877	28.853	(1.107)	8673	0.15086	0.1509
80	Benzo(g,h,i)perylene	276	29.677	29.653	(1.138)	5996	0.10580	0.1058
90	N-Nitrosodimethylamine	74	4.718	4.718	(0.515)	11868	0.49283	0.4928
91	Aniline	93	8.611	8.611	(0.940)	23141	0.48403	0.4840
93	Benzidine	184	21.030	21.015	(0.899)	14240	0.43116	0.4312
103	Pyridine	79	4.772	4.741	(0.521)	17969	0.23482	0.2348
105	1-methylnaphthalene	142	13.344	13.344	(1.144)	15653	0.22730	0.2273
111	Azobenzene (1,2-DP-Hydrazine)	77	16.731	16.731	(1.093)	18088	0.23851	0.2385

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.288	25.335	(0.969)	36432	0.52638	0.5264
120 2,3,4,6-Tetrachlorophenol	232	16.044	16.044	(1.048)	1840	0.12799	0.1280

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123067.D
Lab Smp Id: SKL0355-LCV3
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Misc Info:

Calibration Date: 31-DEC-2022
Calibration Time: 23:30
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138755	69378	277510	109143	-21.34
27 Naphthalene-d8	501723	250862	1003446	397029	-20.87
42 Acenaphthene-d10	275234	137617	550468	204214	-25.80
59 Phenanthrene-d10	440085	220043	880170	329657	-25.09
69 Chrysene-d12	384795	192398	769590	269585	-29.94
134 Di-n-octylphthala	674530	337265	1349060	449369	-33.38
77 Perylene-d12	336665	168333	673330	227797	-32.34

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	-0.07
42 Acenaphthene-d10	15.31	14.81	15.81	15.31	0.00
59 Phenanthrene-d10	18.36	17.86	18.86	18.36	0.00
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.42	0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123067.D

Lab ID: SKL0355-LCV3
nt14.i, 20221230C.b\ABN.m,   01-JAN-2023 00:06

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.954	0.960	-0.0060	Benzoic acid
1.023	1.016	0.0071	4-Nitrophenol

RRT check based on Ccal File: NT1422123066.D

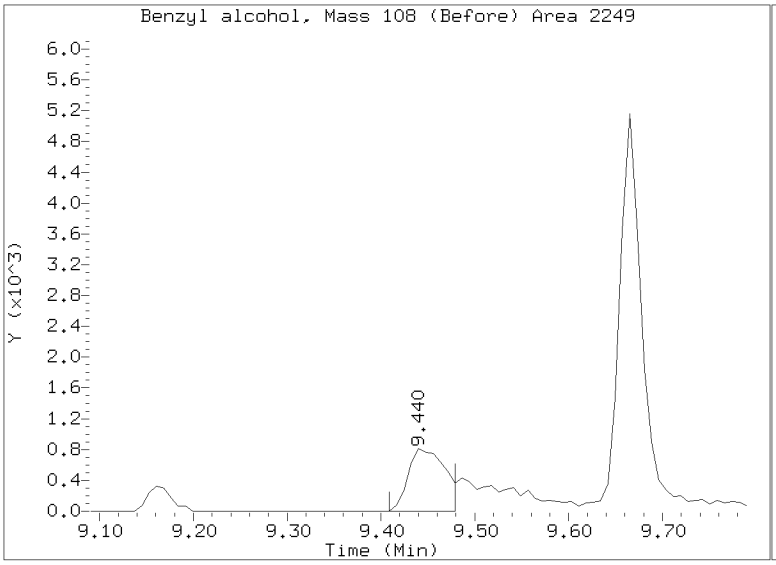
On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

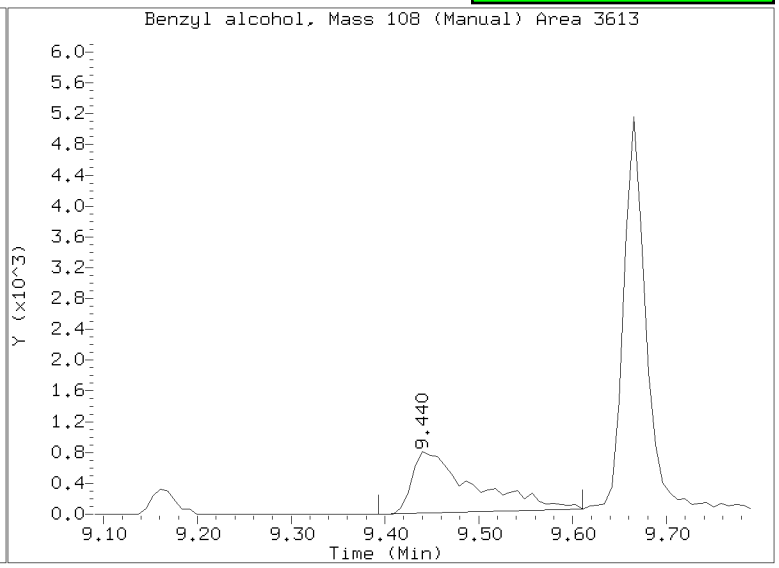
* Only compounds listed in the work order have been verified by the analyst *

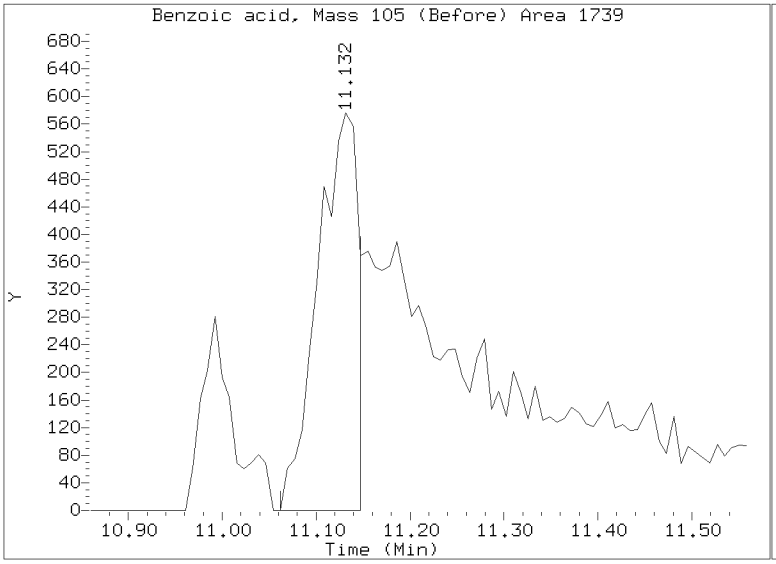
Quant Ion Manual Peak Adjustment Report

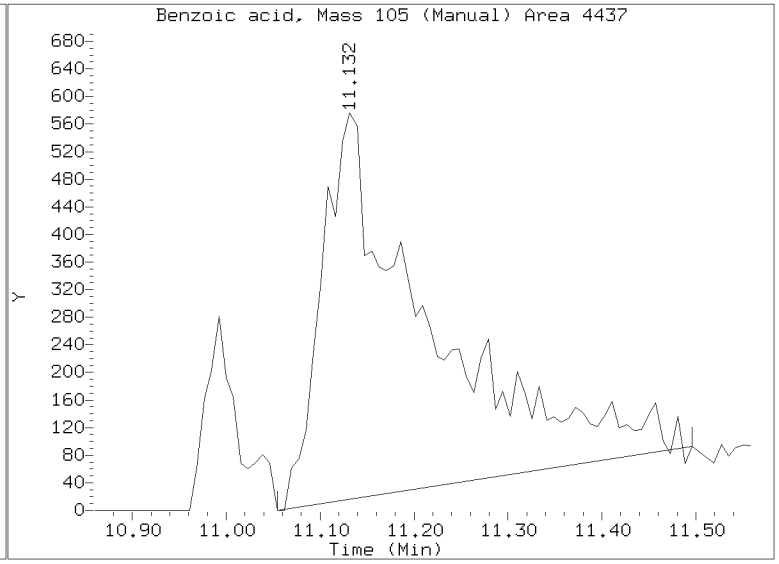
Datafile: //target/share/chem3/nt14.i/20221230C.b/NT1422123067.D
Injection Date: 01-JAN-2023 00:06
Lab ID:SKL0355-LCV3 Client ID:
Report Date: 01/04/2023 14:23

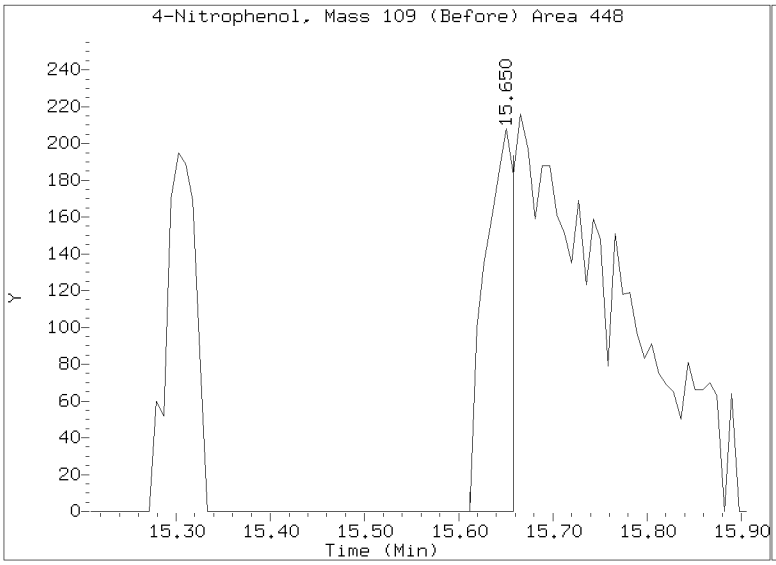
REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM

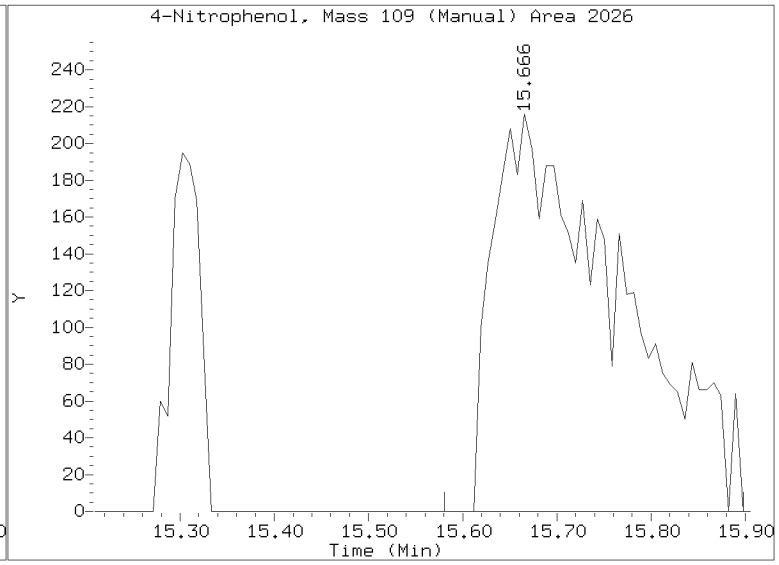












Quant Ion Manual Peak Adjustment Report

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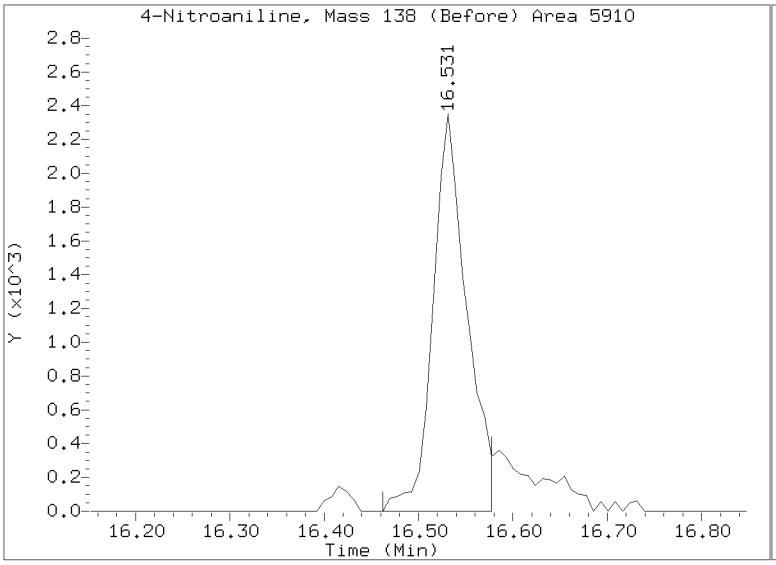
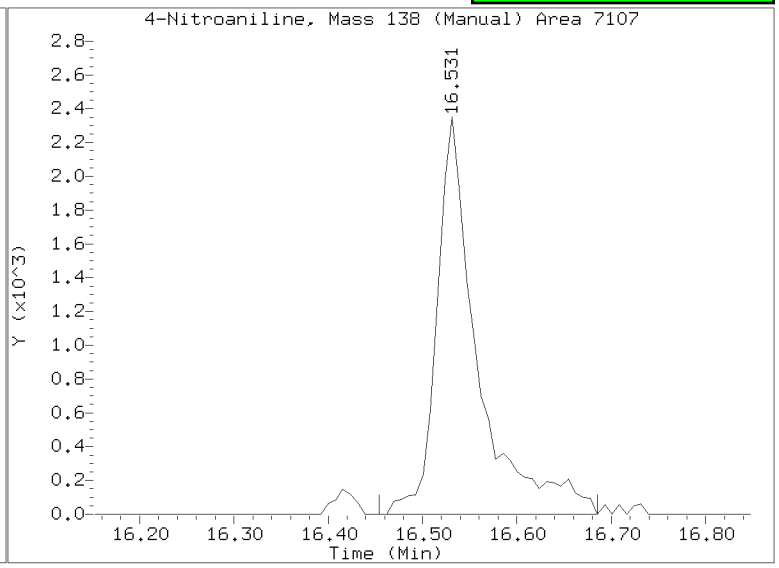
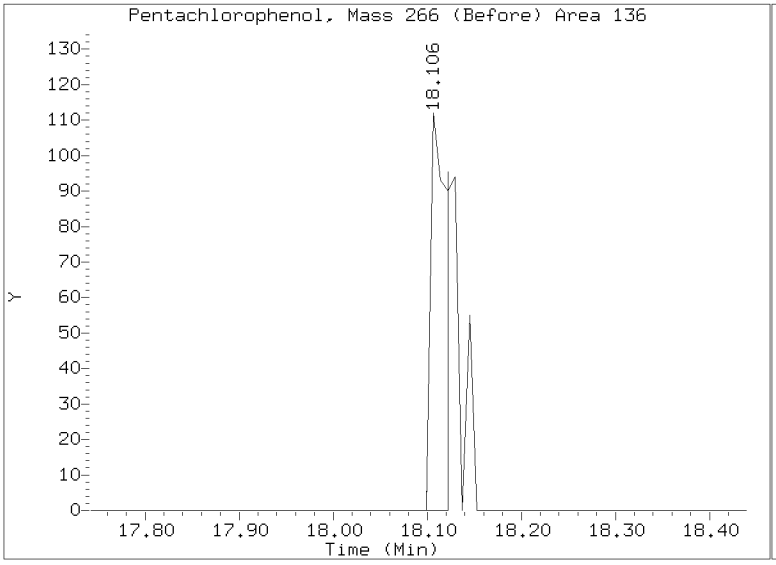
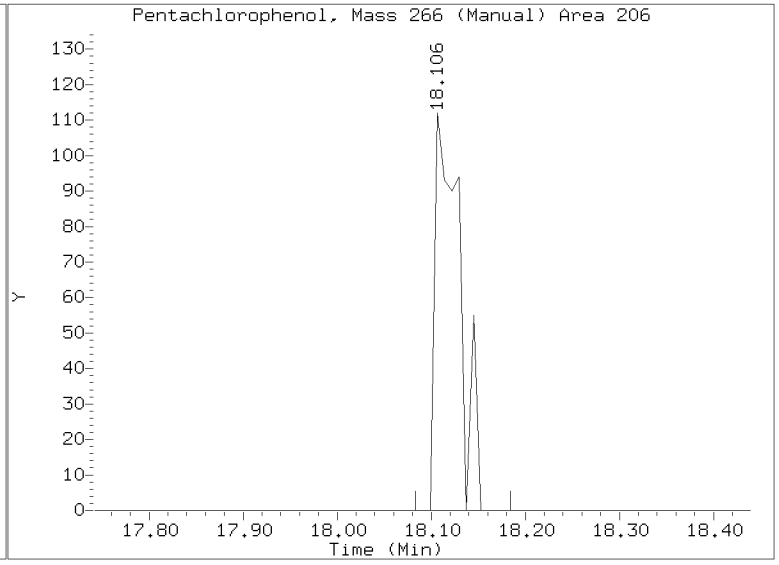
Injection Date: 01-JAN-2023 00:06
Lab ID:SKL0355-LCV3 Client ID:
Report Date: 01/04/2023 14:23

REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM









LOW-CONCENTRATION CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00066
Laboratory ID: SKL0355-LCV4
Sequence: SKL0355
Standard ID: K011106

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Phenol	0.50000	0.5	-2.8	50.00
bis(2-chloroethyl) ether	0.50000	0.5	-3.7	50.00
2-Chlorophenol	0.50000	0.5	3.3	50.00
1,3-Dichlorobenzene	0.50000	0.5	-0.4	50.00
1,4-Dichlorobenzene	0.50000	0.5	1.4	50.00
1,2-Dichlorobenzene	0.50000	0.5	-0.8	50.00
Benzyl Alcohol	0.50000	0.4	-22.6	50.00
2,2'-Oxybis(1-chloropropane)	0.50000	0.5	-5.4	50.00
2-Methylphenol	0.50000	0.5	-2.6	50.00
Hexachloroethane	0.50000	0.4	-17.5	50.00
N-Nitroso-di-n-Propylamine	0.50000	0.5	1.5	50.00
4-Methylphenol	0.50000	0.5	-6.9	50.00
Nitrobenzene	0.50000	0.5	-6.2	50.00
Isophorone	0.50000	0.5	-9.5	50.00
2-Nitrophenol	0.50000	0.5	-5.4	50.00
2,4-Dimethylphenol	1.0000	1.0	-2.3	50.00
Bis(2-Chloroethoxy)methane	0.50000	0.5	-1.0	50.00
2,4-Dichlorophenol	1.0000	1.0	-4.0	50.00
1,2,4-Trichlorobenzene	0.50000	0.5	-2.2	50.00
Naphthalene	0.50000	0.5	-2.9	50.00
Benzoic acid	2.0000	0.4	-77.6	50.00
4-Chloroaniline	1.0000	0.9	-11.1	50.00
Hexachlorobutadiene	0.50000	0.5	-4.5	50.00
4-Chloro-3-Methylphenol	1.0000	0.9	-5.0	50.00
2-Methylnaphthalene	0.50000	0.5	-6.9	50.00
Hexachlorocyclopentadiene	1.0000	0.1	-86.3	50.00
2,4,6-Trichlorophenol	1.0000	0.9	-12.6	50.00
2,4,5-Trichlorophenol	1.0000	0.8	-19.8	50.00
2-Chloronaphthalene	0.50000	0.5	-3.8	50.00

LOW-CONCENTRATION CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00066
Laboratory ID: SKL0355-LCV4
Sequence: SKL0355
Standard ID: K011106

2-Nitroaniline	1.0000	1.0	-1.3	50.00
Acenaphthylene	0.50000	0.5	-0.4	50.00
Dimethylphthalate	0.50000	0.5	-0.9	50.00
2,6-Dinitrotoluene	1.0000	0.9	-12.7	50.00
Acenaphthene	0.50000	0.5	-0.9	50.00
3-Nitroaniline	1.0000	0.8	-15.1	50.00
2,4-Dinitrophenol	2.0000	0.01	-99.4	50.00
Dibenzofuran	0.50000	0.5	-1.4	50.00
4-Nitrophenol	1.0000	0.7	-32.8	50.00
2,4-Dinitrotoluene	1.0000	0.8	-22.2	50.00
Fluorene	0.50000	0.5	-2.4	50.00
4-Chlorophenylphenyl ether	0.50000	0.5	2.5	50.00
Diethyl phthalate	0.50000	0.6	14.4	50.00
4-Nitroaniline	1.0000	0.8	-16.9	50.00
4,6-Dinitro-2-methylphenol	2.0000	0.4	-80.9	50.00
N-Nitrosodiphenylamine	0.50000	0.5	2.3	50.00
4-Bromophenyl phenyl ether	0.50000	0.5	-5.4	50.00
Hexachlorobenzene	0.50000	0.5	-2.6	50.00
Pentachlorophenol	1.0000	0.1	-89.6	50.00
Phenanthrene	0.50000	0.5	-3.4	50.00
Anthracene	0.50000	0.5	-3.0	50.00
Carbazole	0.50000	0.5	-6.4	50.00
Di-n-Butylphthalate	0.50000	0.5	-4.2	50.00
Fluoranthene	0.50000	0.5	-5.6	50.00
Pyrene	0.50000	0.5	-3.8	50.00
Butylbenzylphthalate	0.50000	0.5	5.2	50.00
Benzo(a)anthracene	0.50000	0.5	4.1	50.00
3,3'-Dichlorobenzidine	1.5000	1.6	9.4	50.00
Chrysene	0.50000	0.5	0.02	50.00
bis(2-Ethylhexyl)phthalate	0.50000	0.5	2.7	50.00
Di-n-Octylphthalate	0.50000	0.5	-2.0	50.00

LOW-CONCENTRATION CALIBRATION VERIFICATION

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00066
Laboratory ID: SKL0355-LCV4
Sequence: SKL0355
Standard ID: K011106

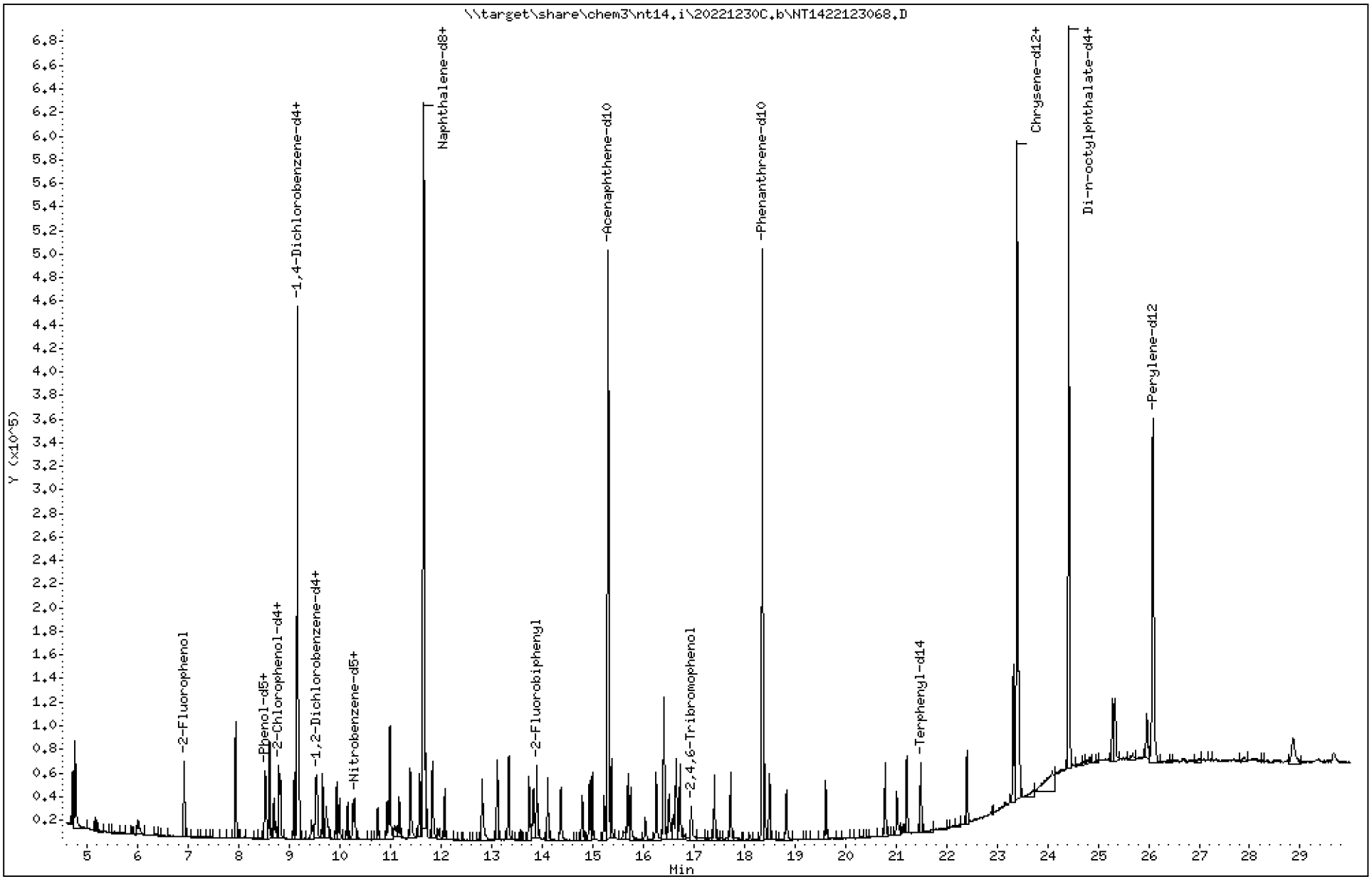
Benzofluoranthenes, Total	1.0000	1.1	12.7	50.00
Benzo(a)pyrene	0.50000	0.5	5.9	50.00
Indeno(1,2,3-cd)pyrene	0.50000	0.3	-42.5	50.00
Dibenzo(a,h)anthracene	0.50000	0.3	-41.0	50.00
Benzo(g,h,i)perylene	0.50000	0.2	-51.8	50.00
1-Methylnaphthalene	0.50000	0.5	-5.2	50.00
2-Fluorophenol	0.75000	0.732	-2.4	50.00
Phenol-d5	0.75000	0.661	-11.9	50.00
2-Chlorophenol-d4	0.75000	0.698	-7.0	50.00
1,2-Dichlorobenzene-d4	0.50000	0.480	-4.0	50.00
Nitrobenzene-d5	0.50000	0.483	-3.4	50.00
2-Fluorobiphenyl	0.50000	0.472	-5.6	50.00
2,4,6-Tribromophenol	0.75000	0.538	-28.3	50.00
p-Terphenyl-d14	0.50000	0.451	-9.7	50.00

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123068.D
Date : 01-JAN-2023 00:42
Client ID:
Sample Info: SKL0355-LCV4

Instrument: nt14.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

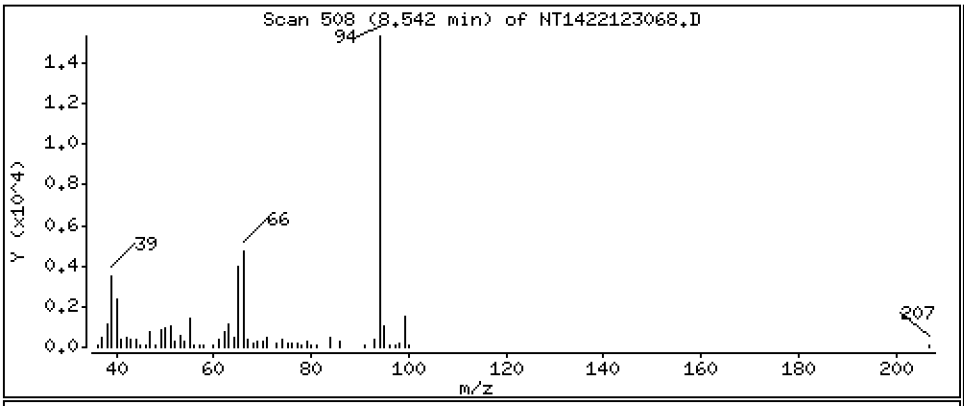
Operator: VTS

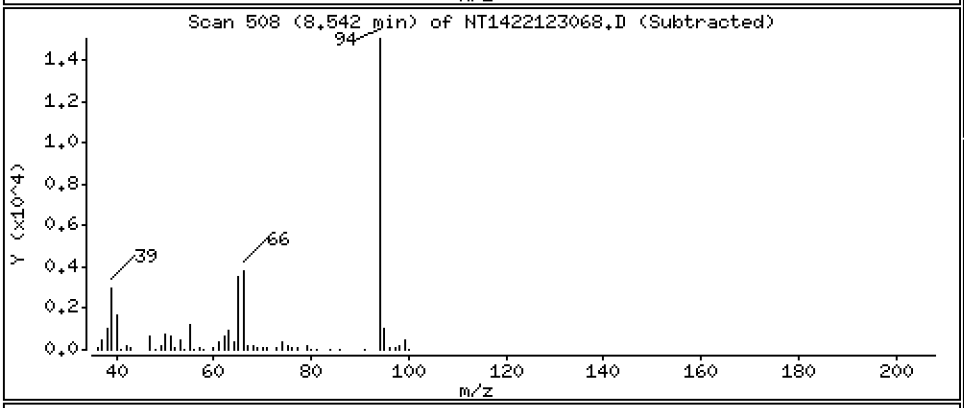
Column phase: ZB-5msi

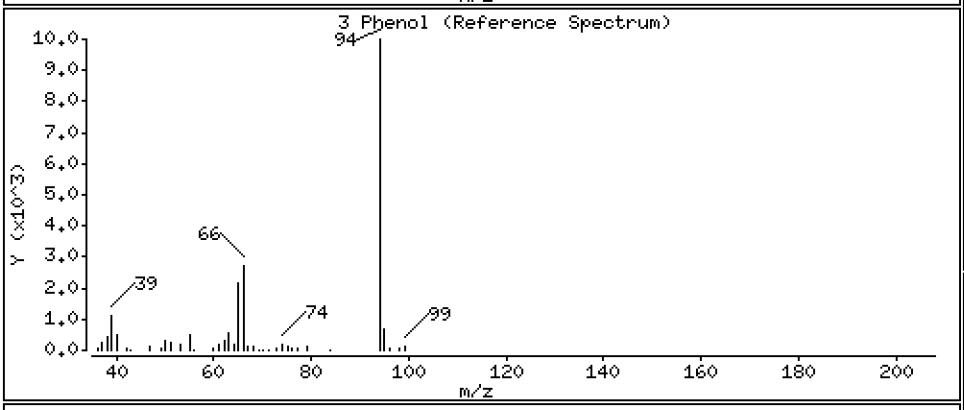
Column diameter: 0.25

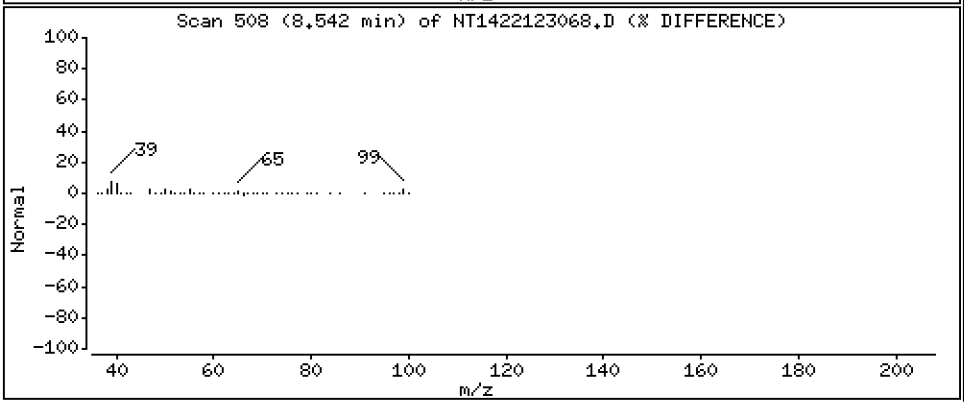
3 Phenol

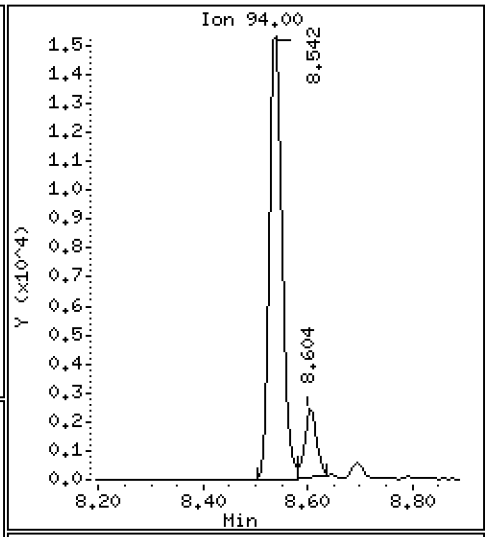
Concentration: 0.4858 ug/mL

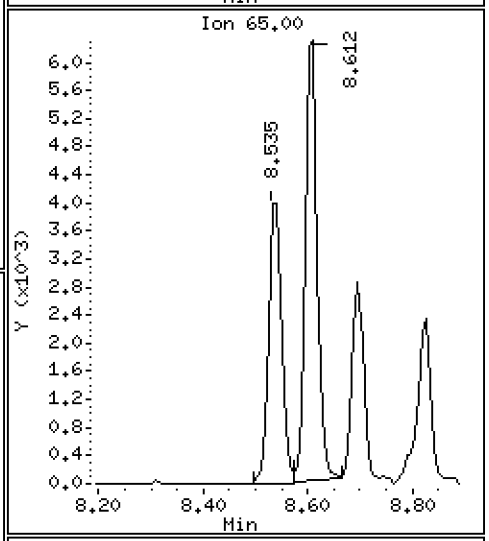


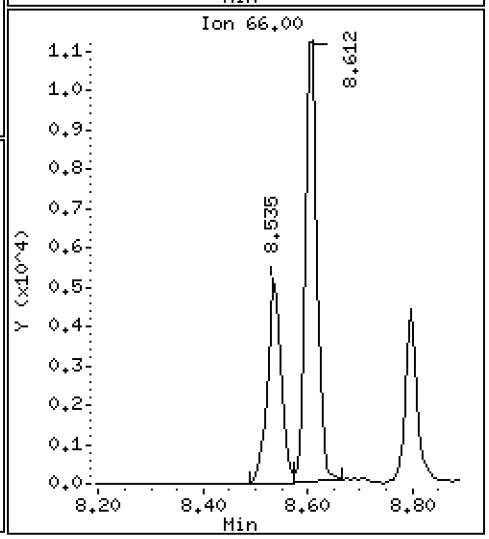












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

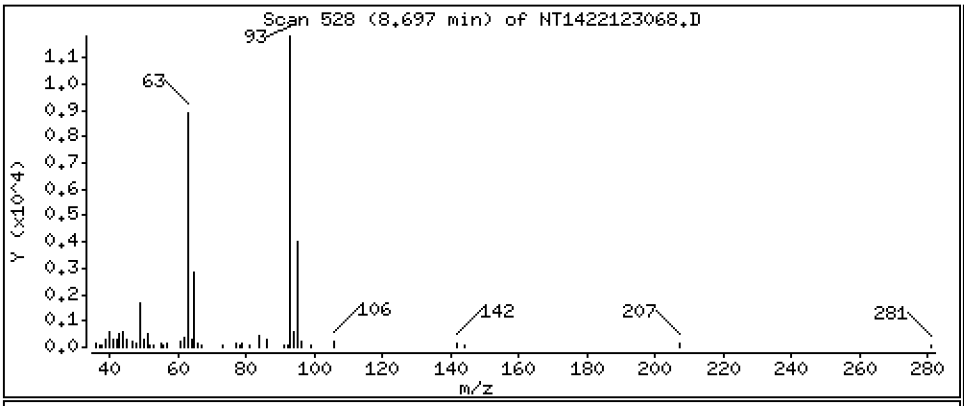
Operator: VTS

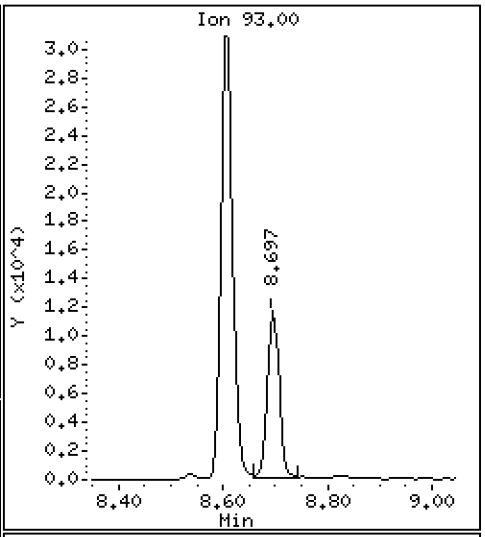
Column phase: ZB-5msi

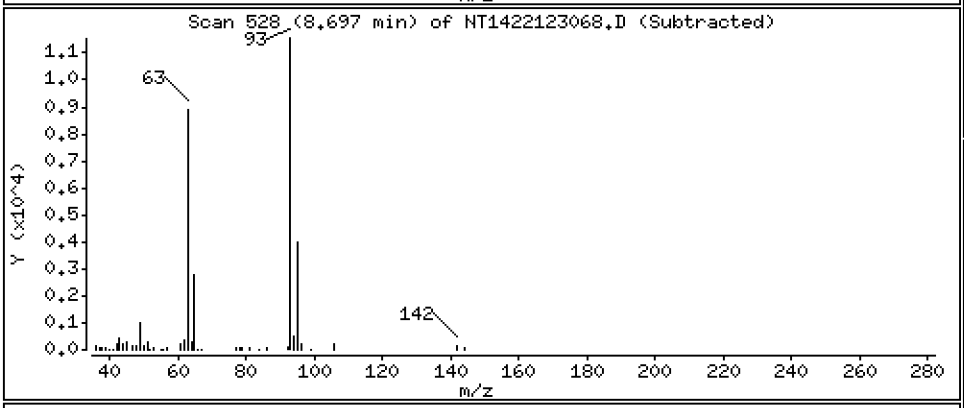
Column diameter: 0.25

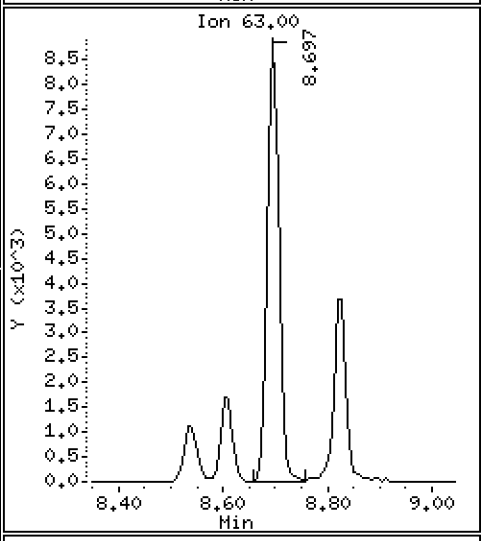
4 Bis(2-Chloroethyl)ether

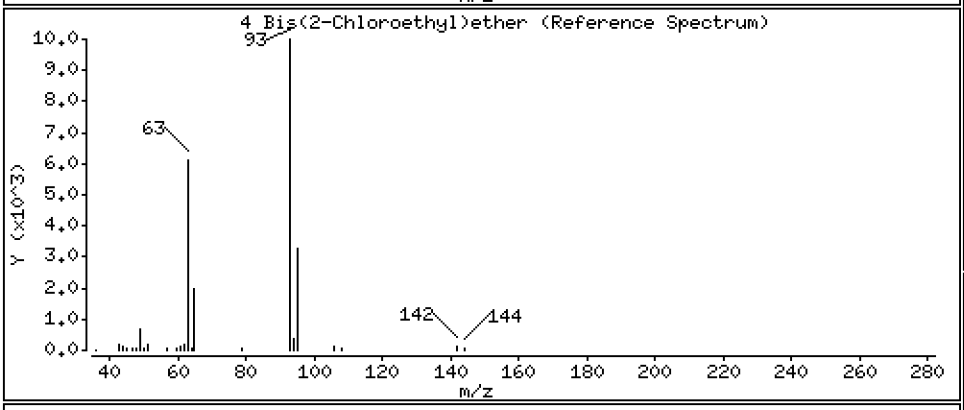
Concentration: 0.4816 ug/mL

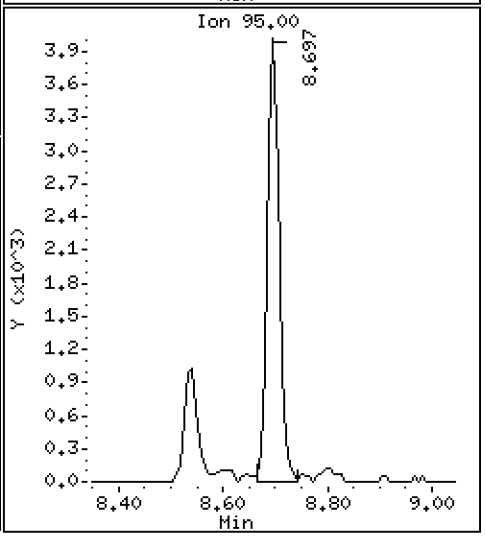


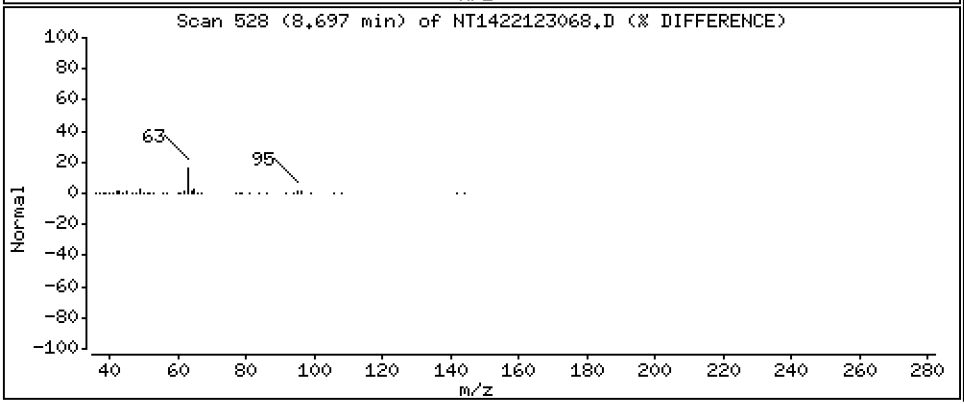












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

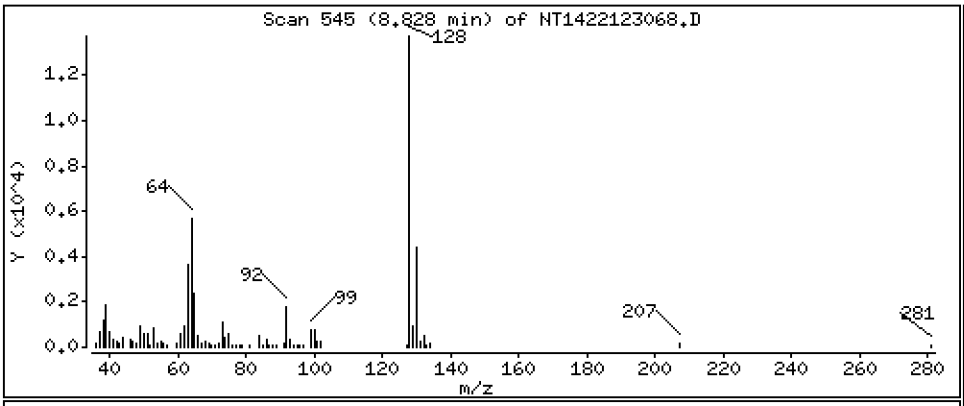
Operator: VTS

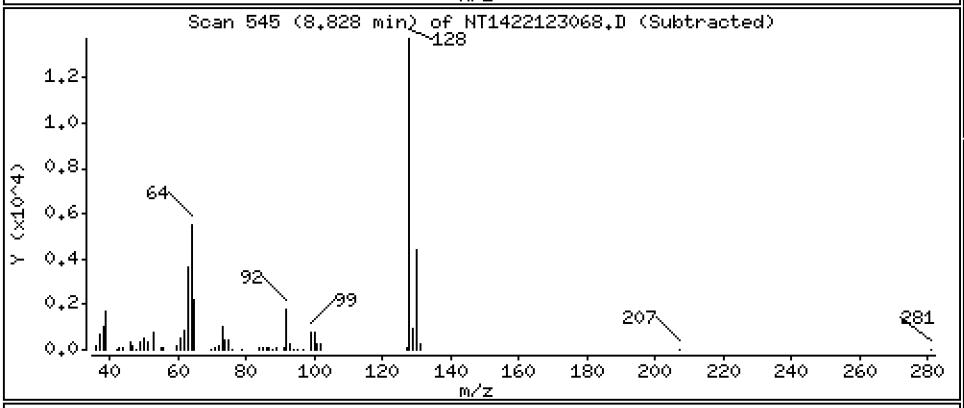
Column phase: ZB-5msi

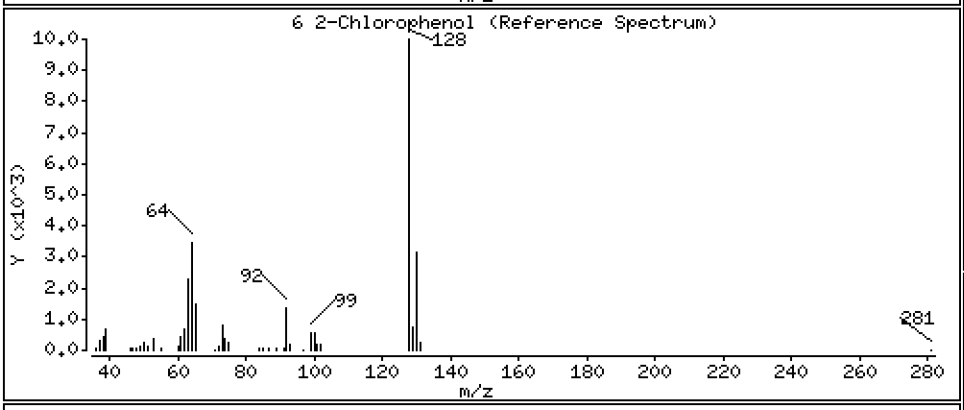
Column diameter: 0.25

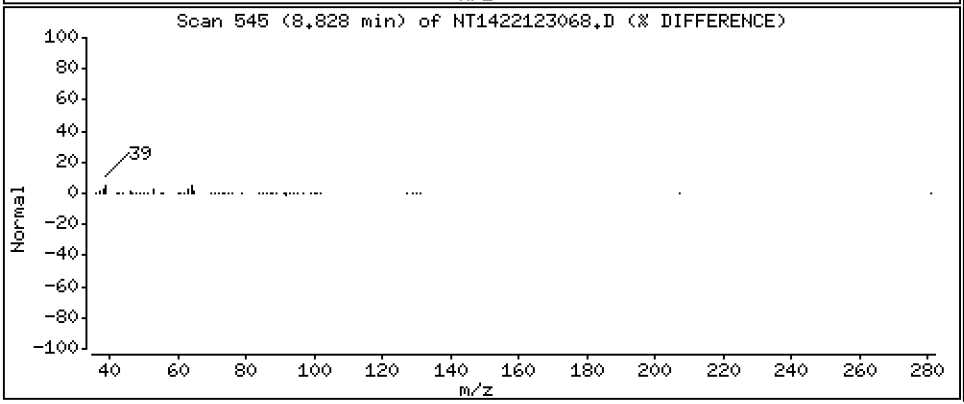
6 2-Chlorophenol

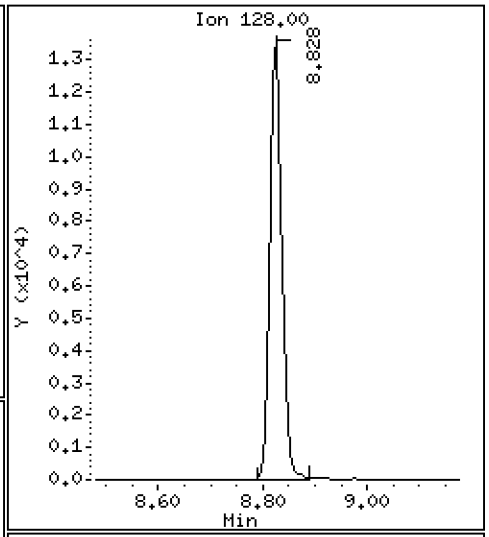
Concentration: 0.5163 ug/mL

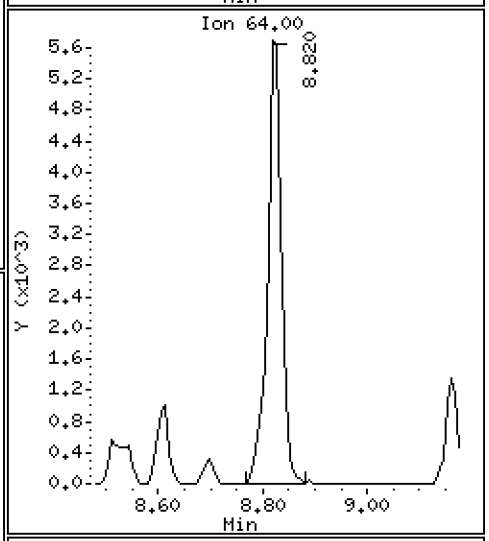


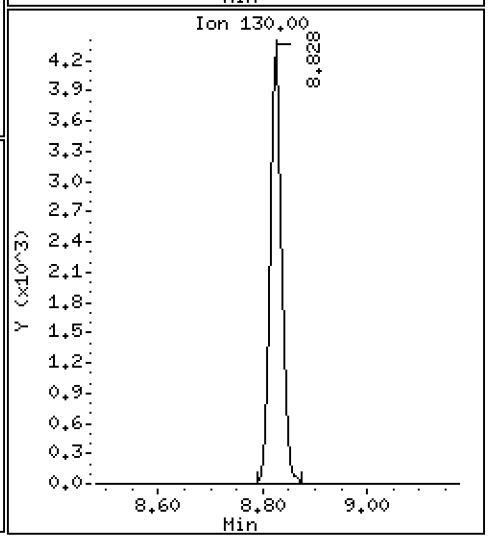












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

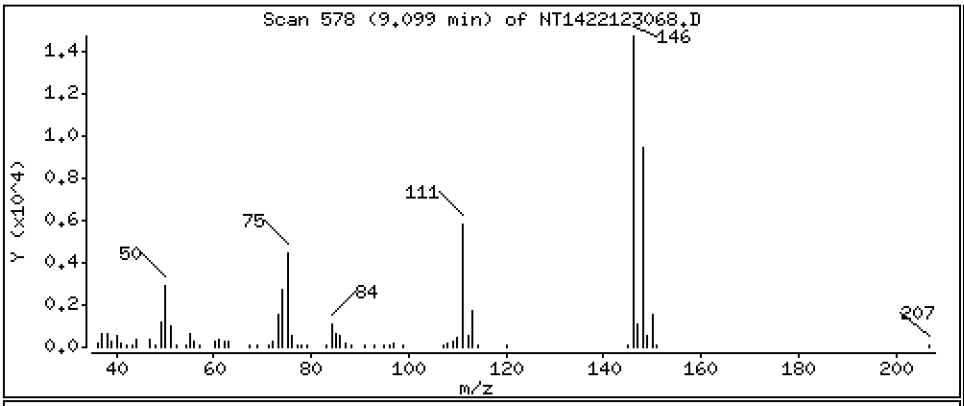
Operator: VTS

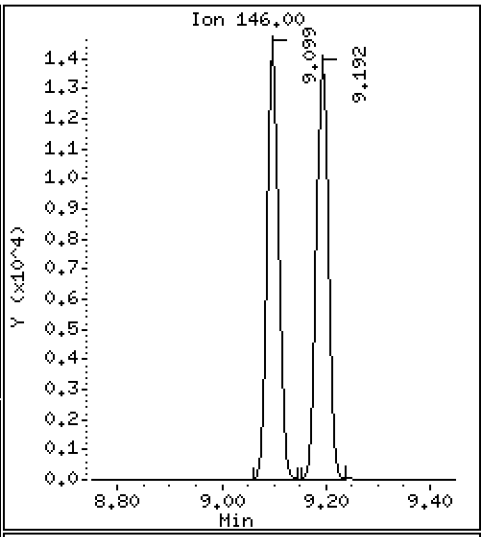
Column phase: ZB-5msi

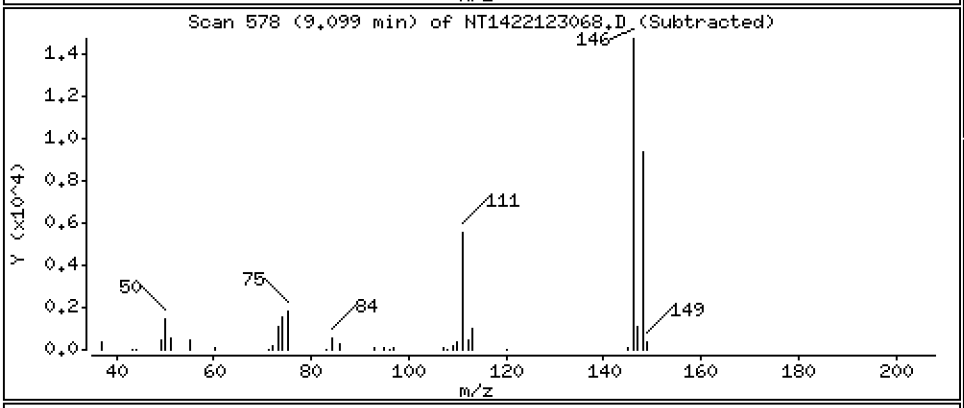
Column diameter: 0.25

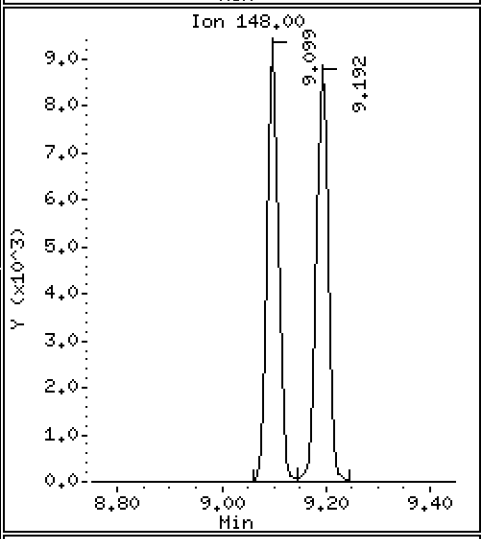
7 1,3-Dichlorobenzene

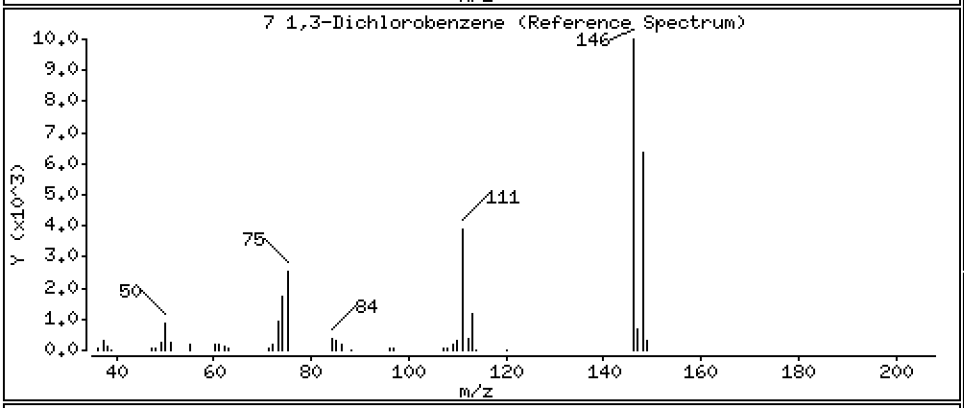
Concentration: 0.4981 ug/mL

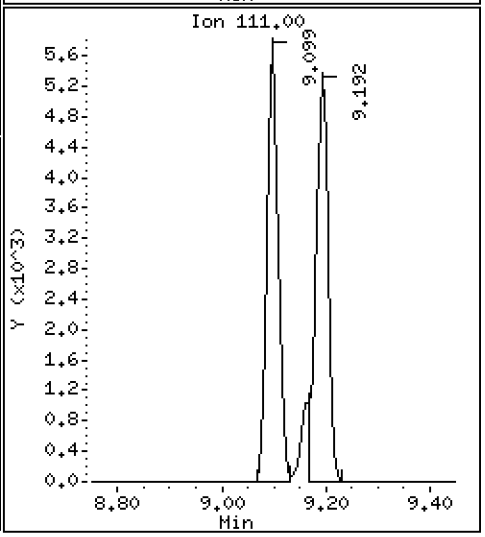


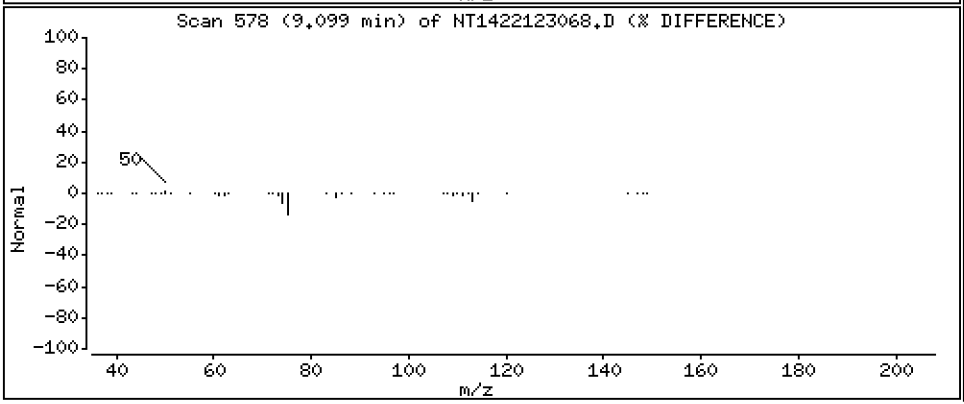












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

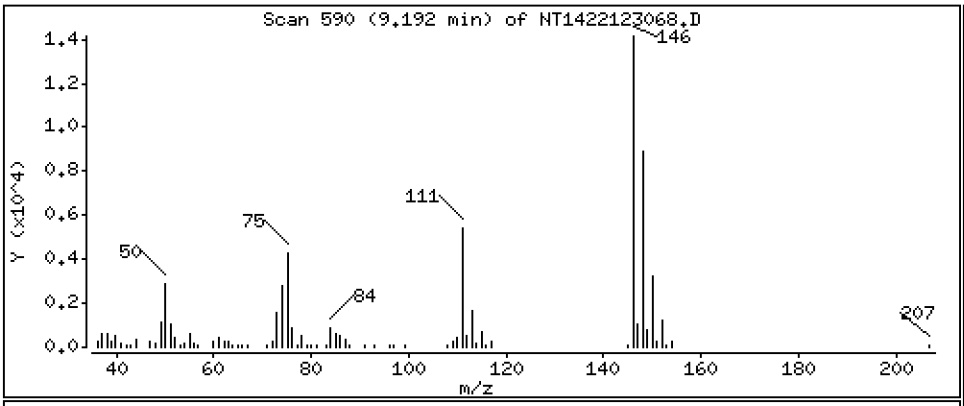
Operator: VTS

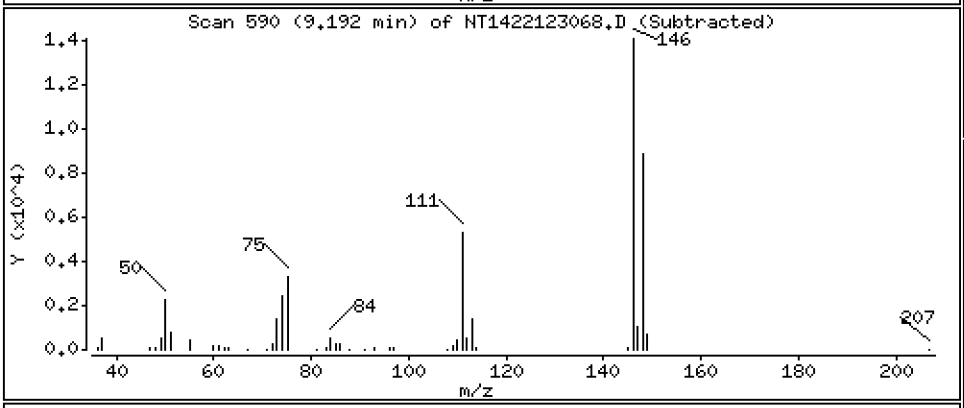
Column phase: ZB-5msi

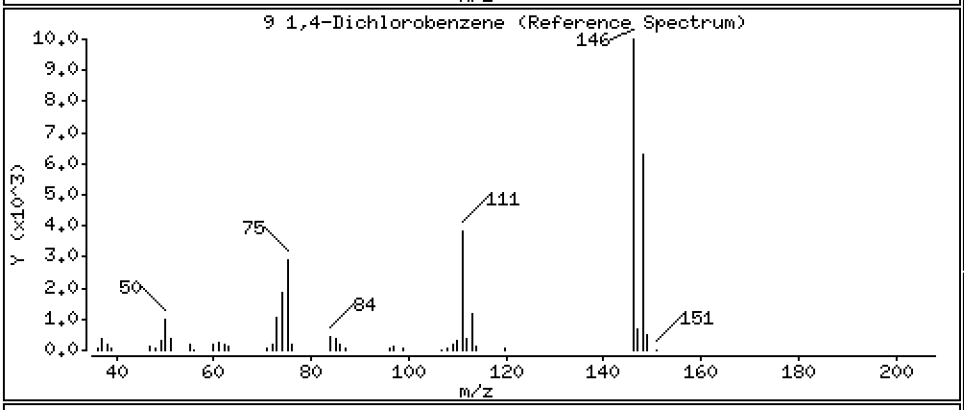
Column diameter: 0.25

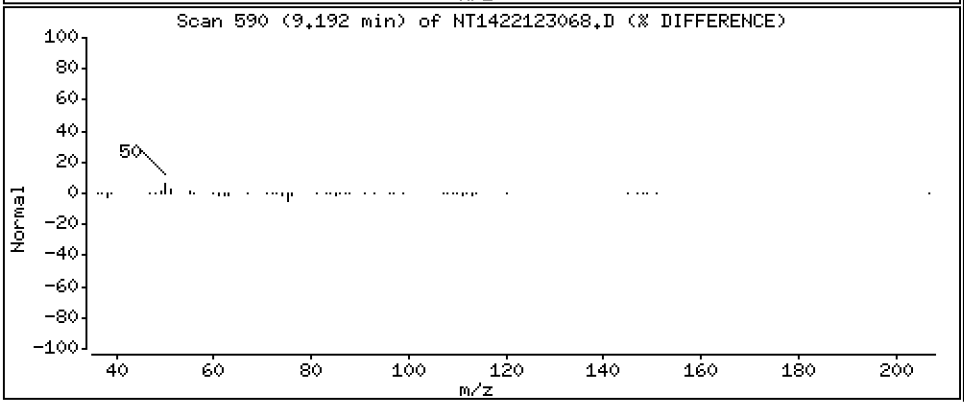
9 1,4-Dichlorobenzene

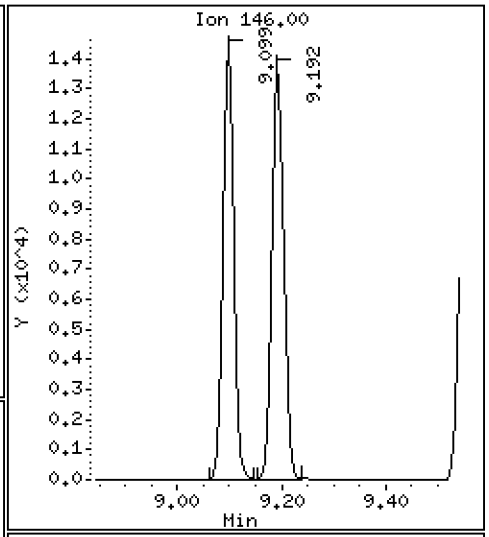
Concentration: 0.5068 ug/mL

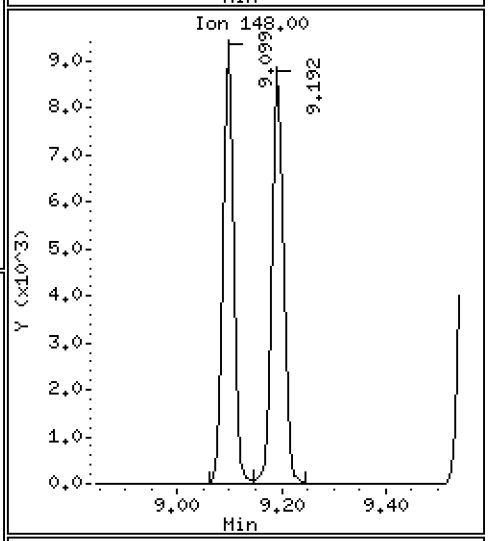


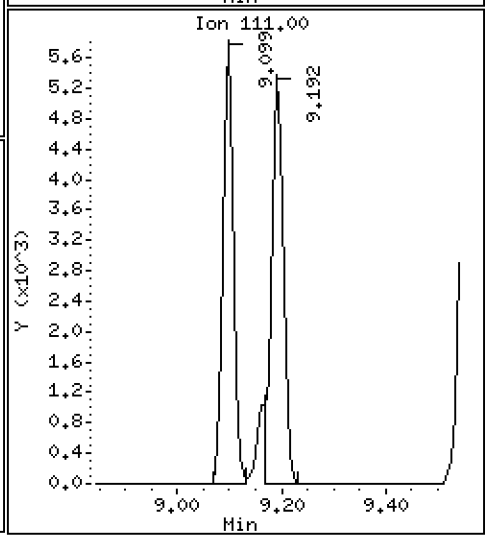












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

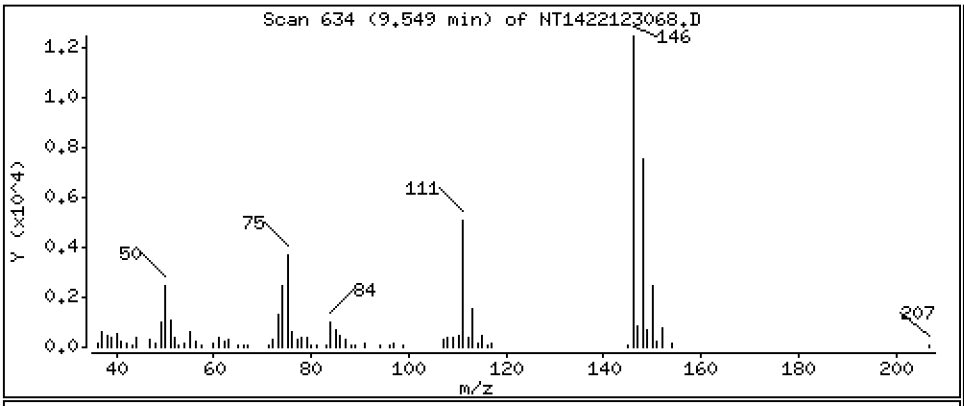
Operator: VTS

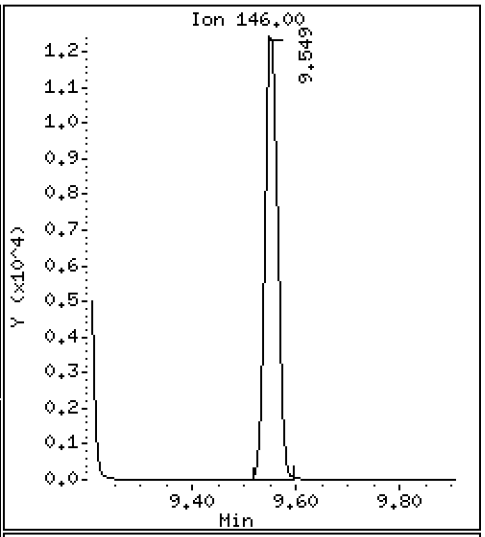
Column phase: ZB-5msi

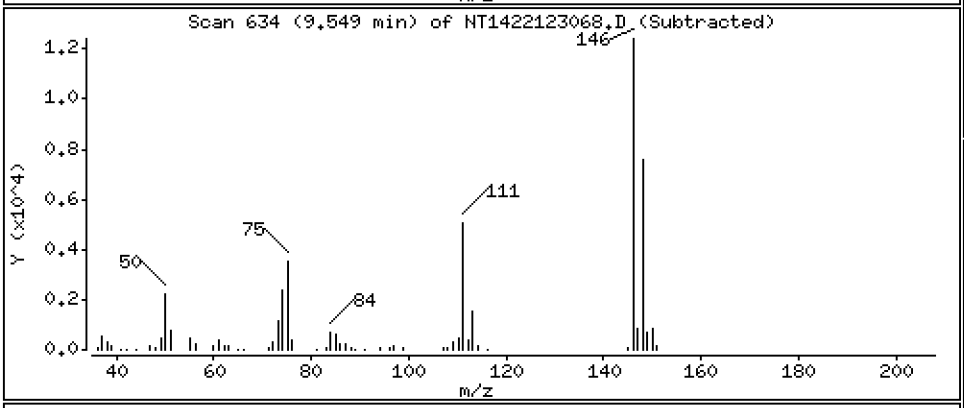
Column diameter: 0.25

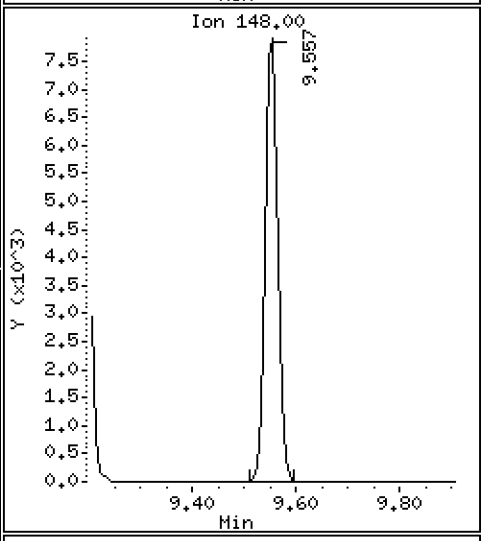
12 1,2-Dichlorobenzene

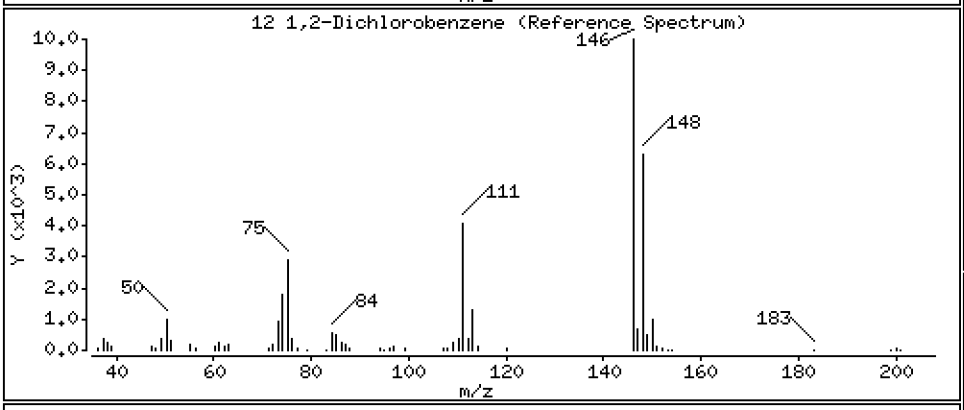
Concentration: 0.4961 ug/mL

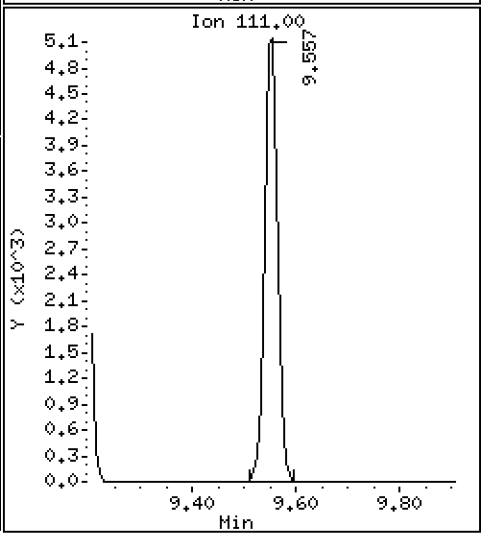


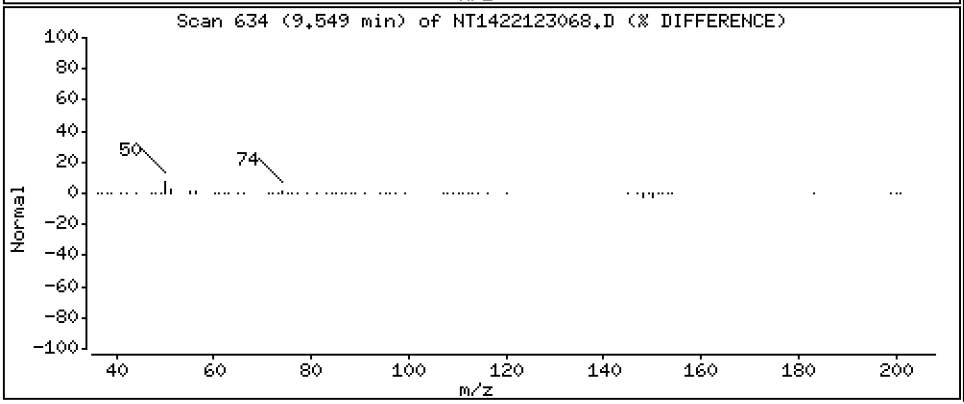












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

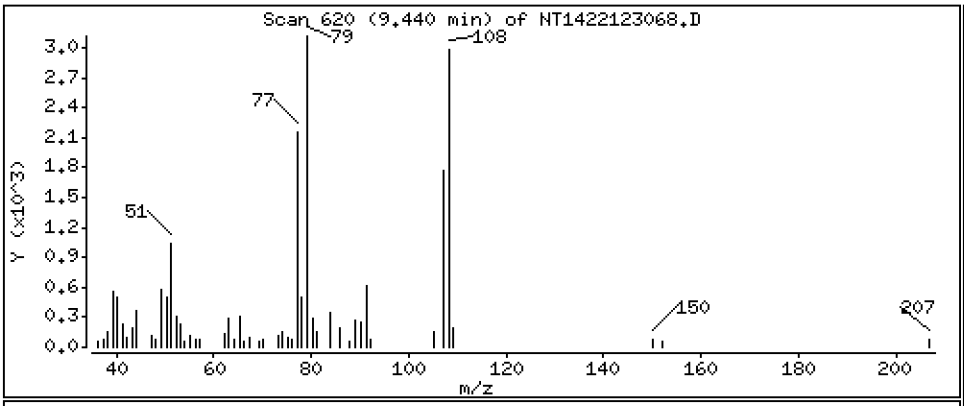
Operator: VTS

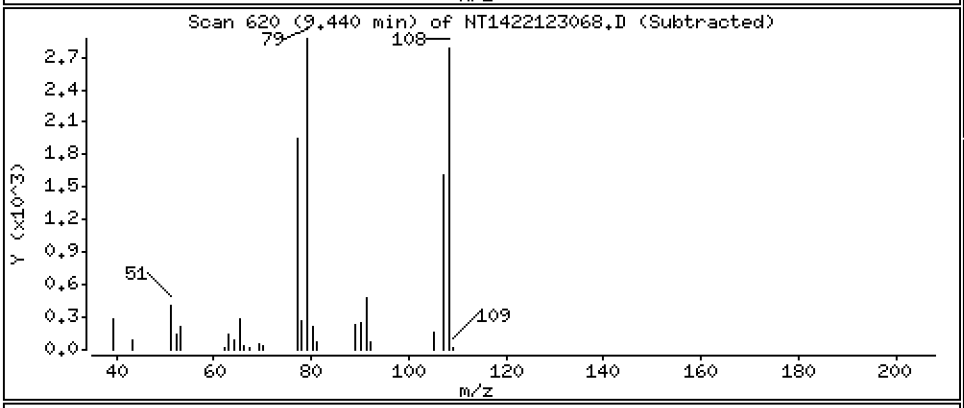
Column phase: ZB-5msi

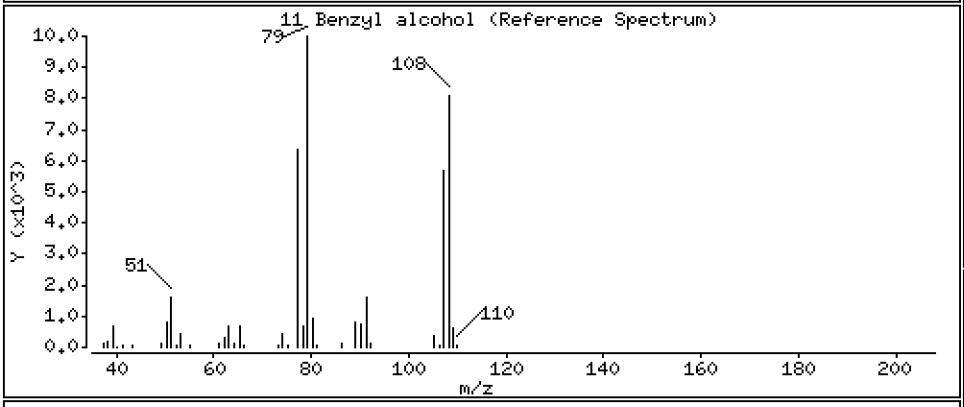
Column diameter: 0.25

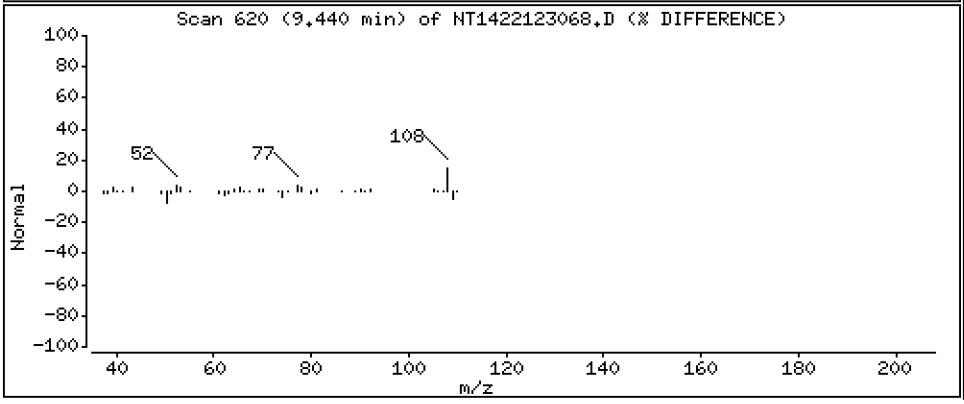
11 Benzyl alcohol

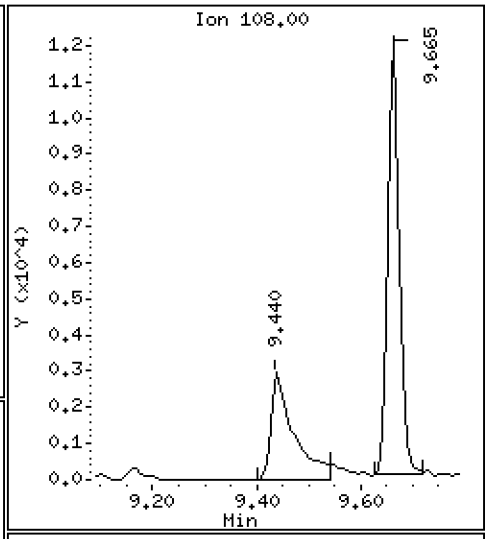
Concentration: 0.3869 ug/mL

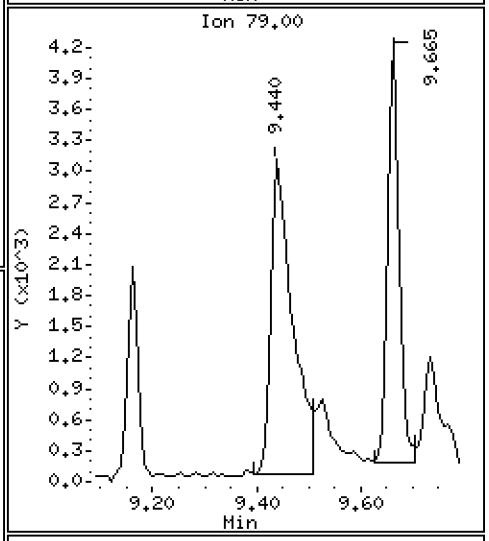


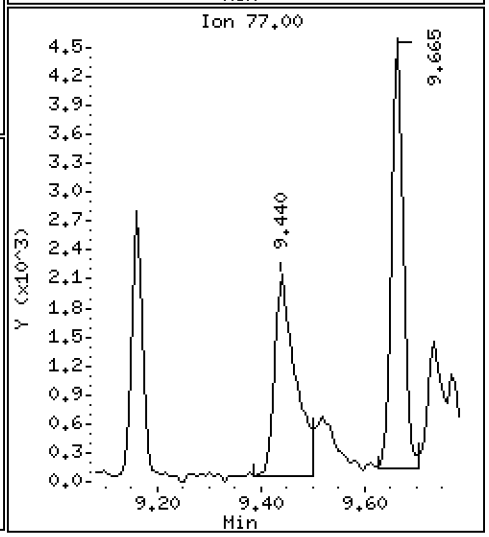












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

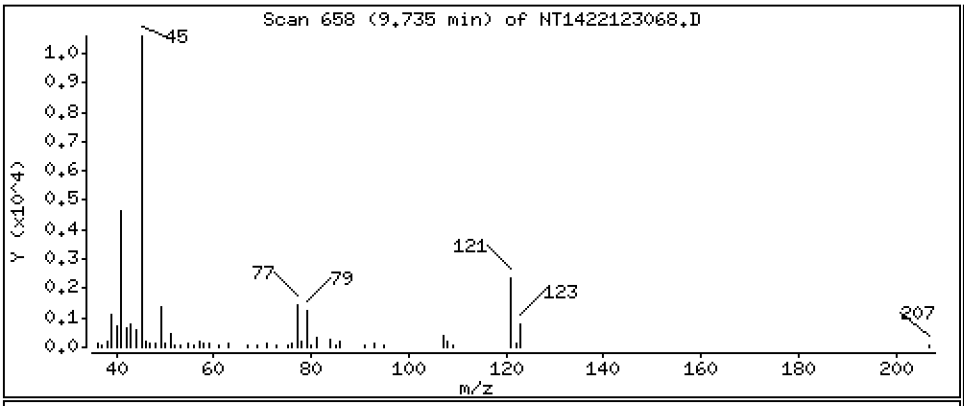
Operator: VTS

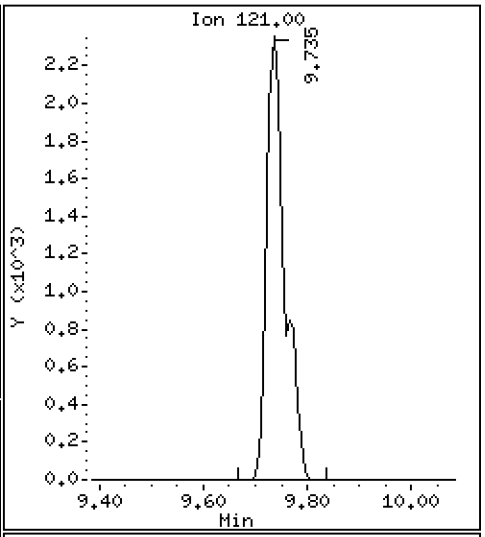
Column phase: ZB-5msi

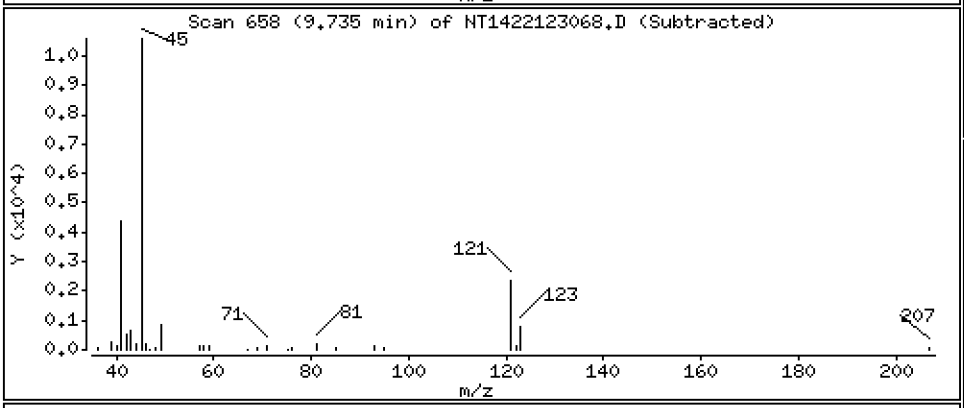
Column diameter: 0.25

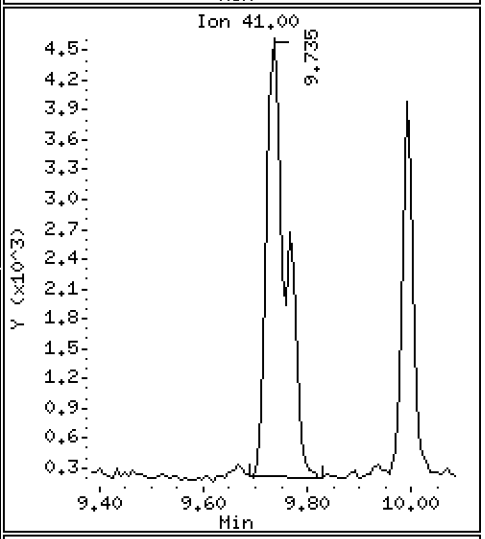
14 2,2'-oxybis(1-Chloropropane)

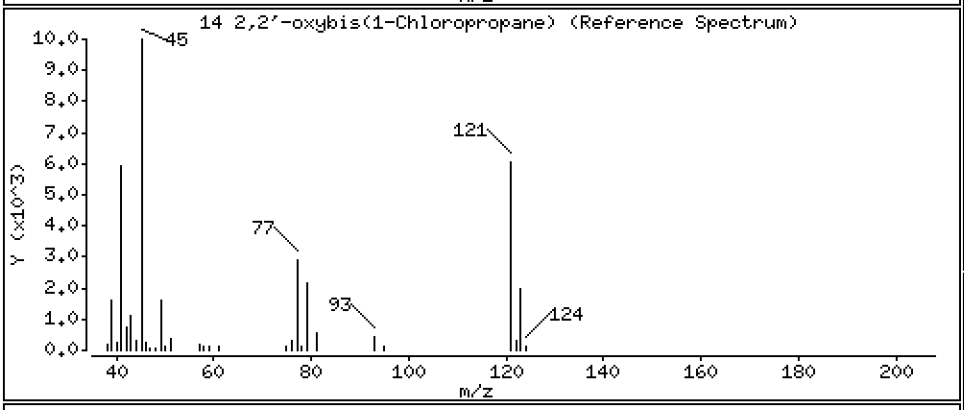
Concentration: 0.4728 ug/mL

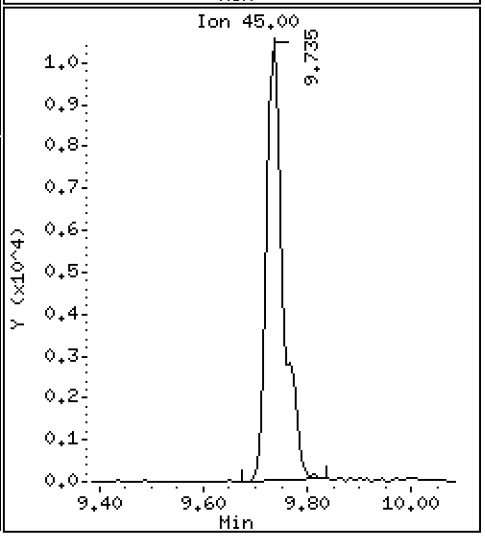


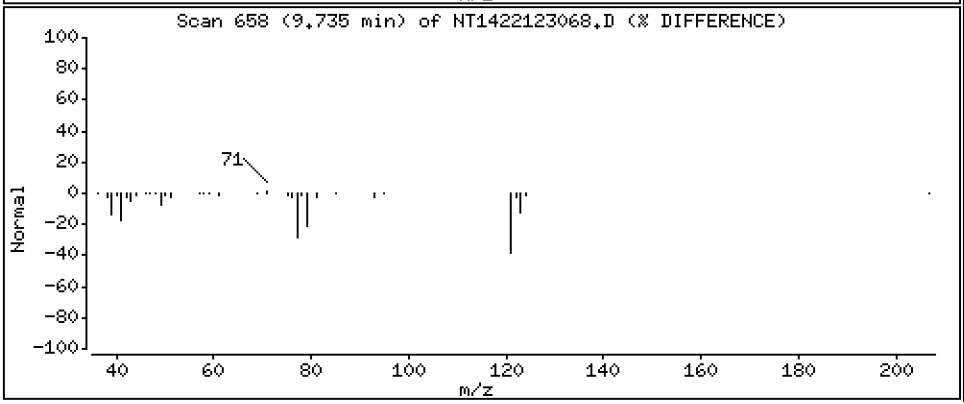












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

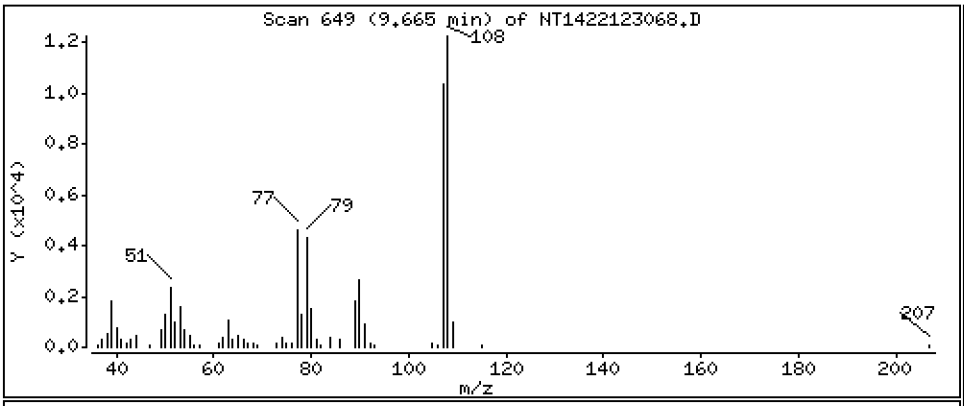
Operator: VTS

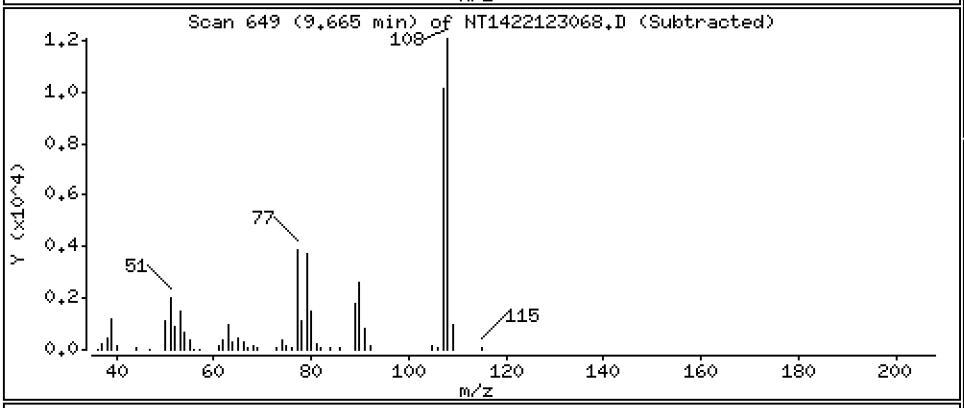
Column phase: ZB-5msi

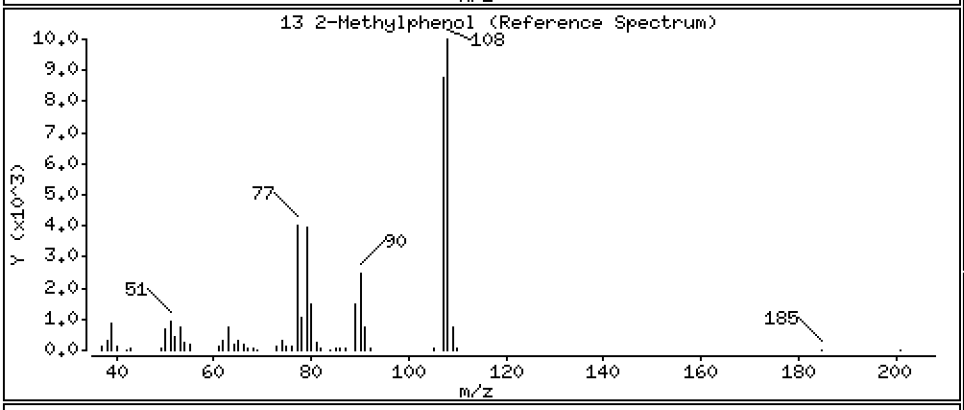
Column diameter: 0.25

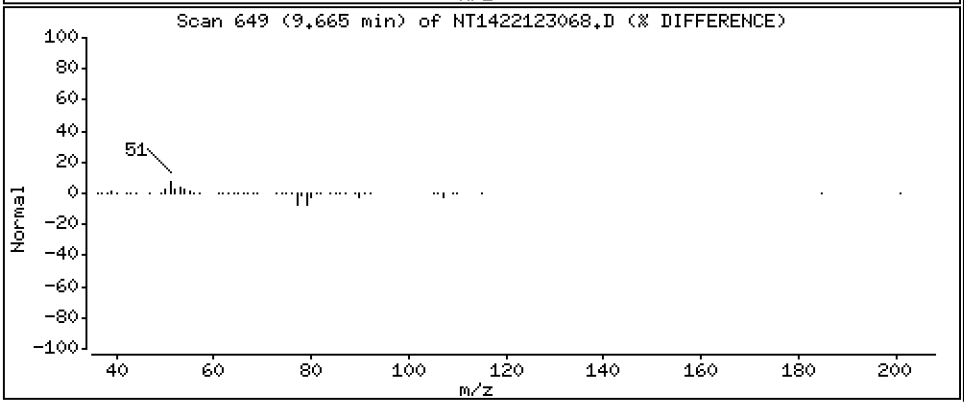
13 2-Methylphenol

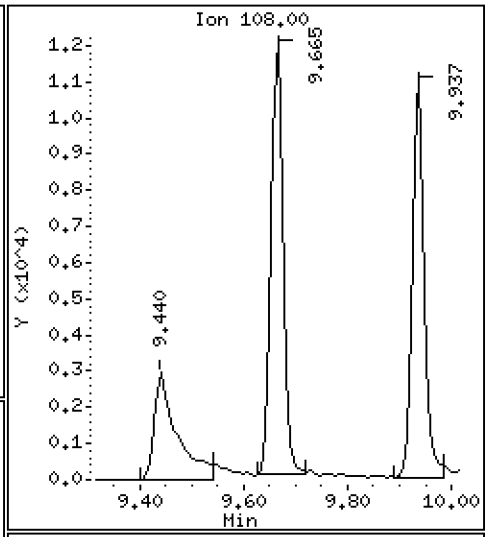
Concentration: 0.4871 ug/mL

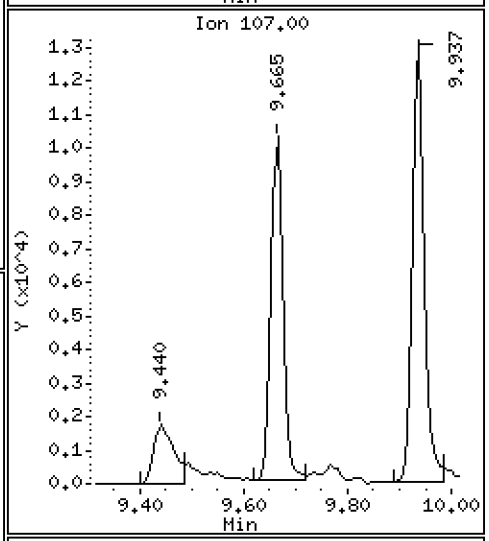


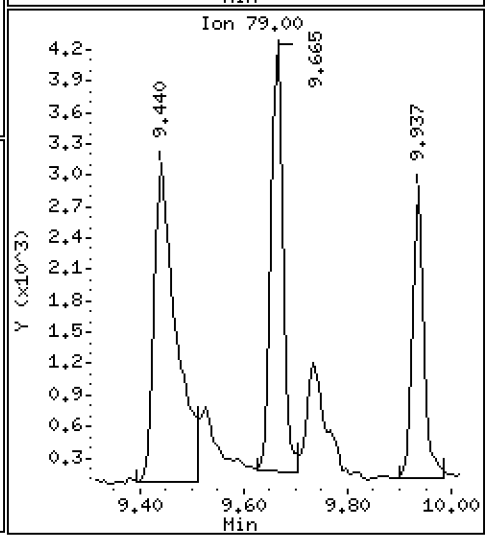












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

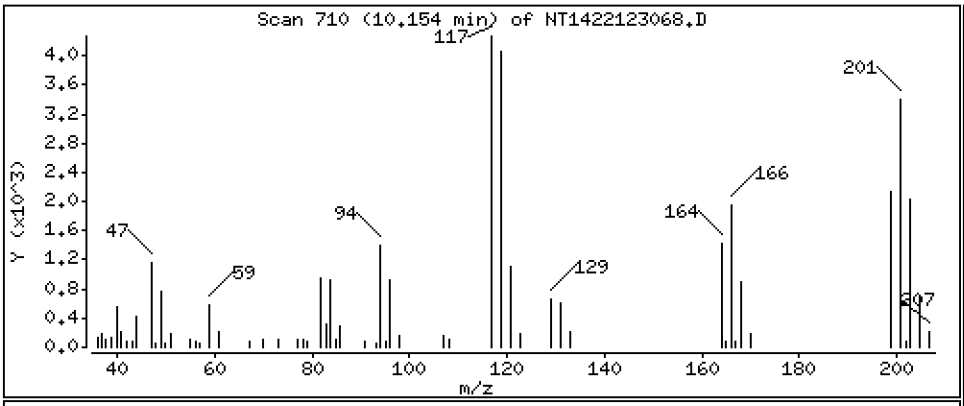
Operator: VTS

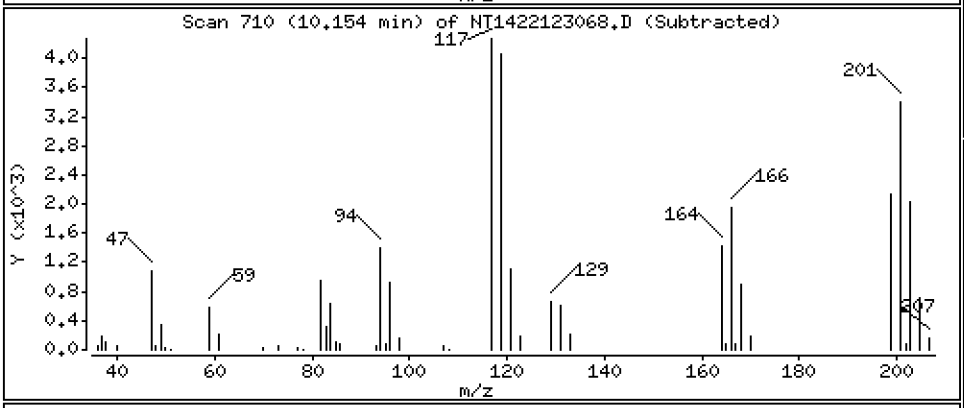
Column phase: ZB-5msi

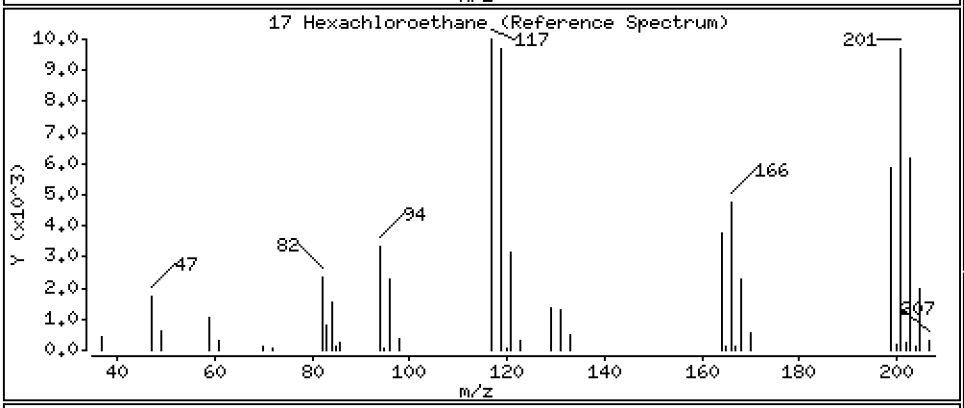
Column diameter: 0.25

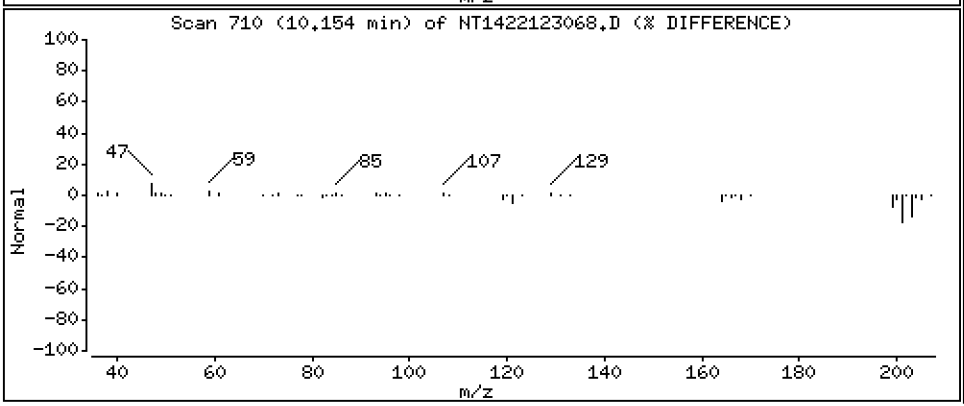
17 Hexachloroethane

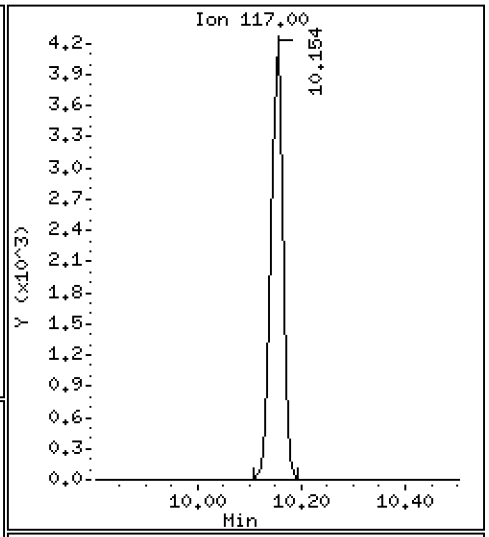
Concentration: 0.4126 ug/mL

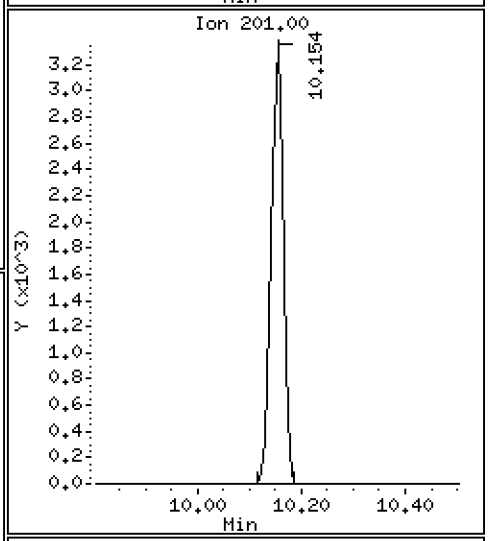


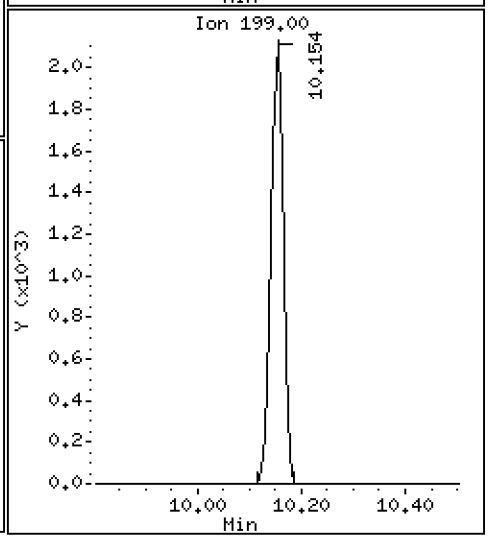












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

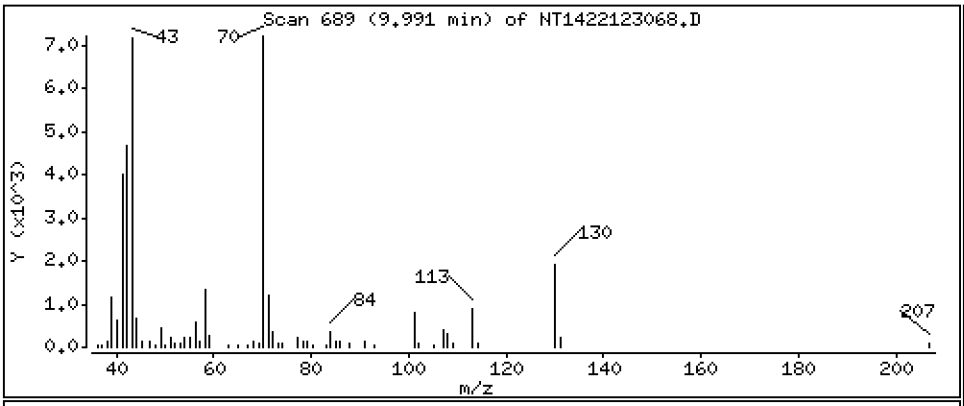
Operator: VTS

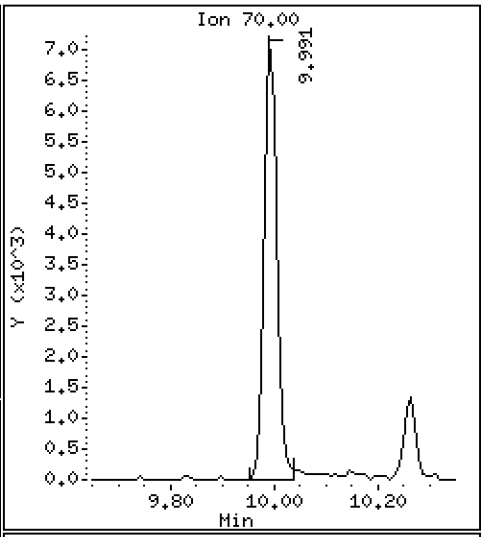
Column phase: ZB-5msi

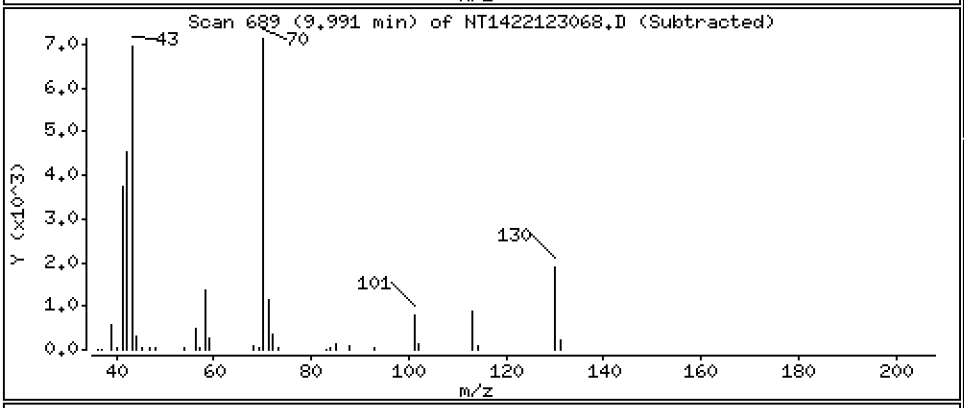
Column diameter: 0.25

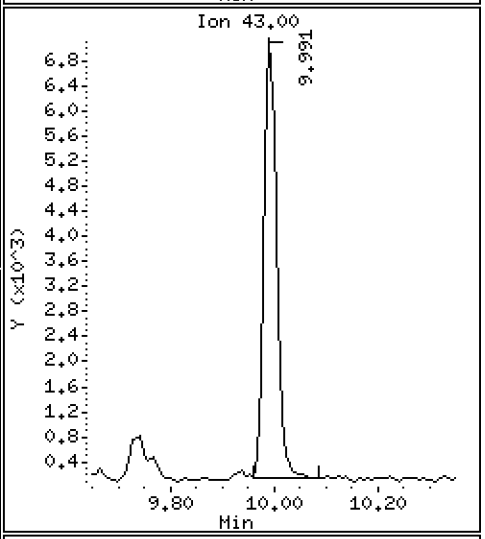
16 N-Nitroso-di-n-propylamine

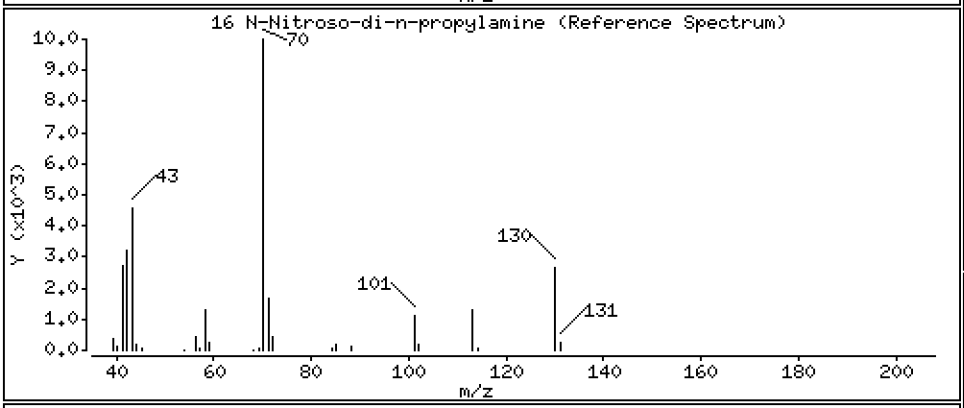
Concentration: 0.5075 ug/mL

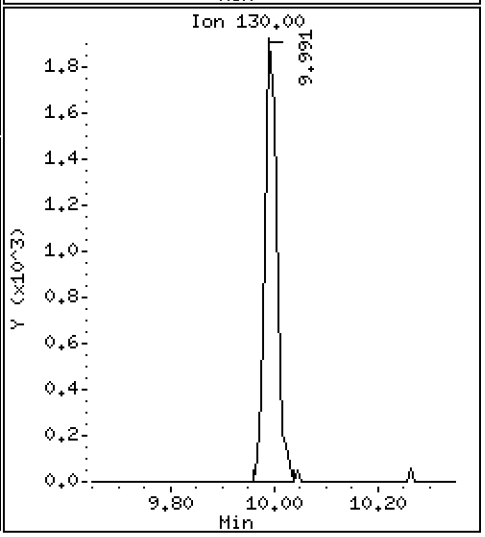


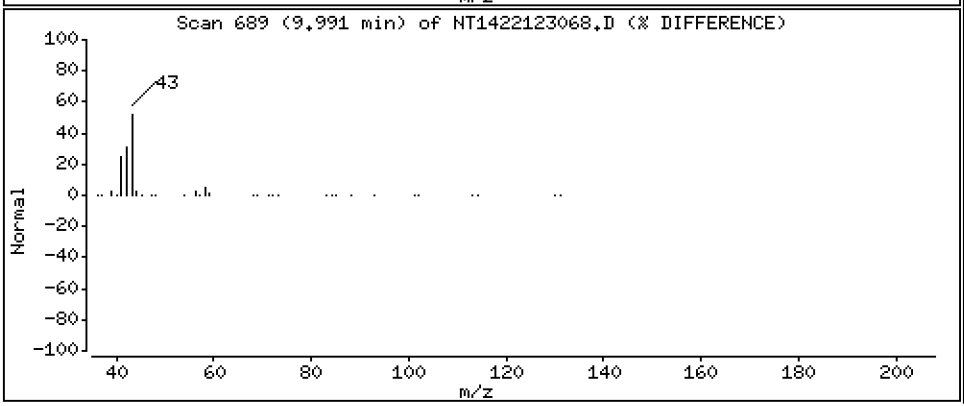












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

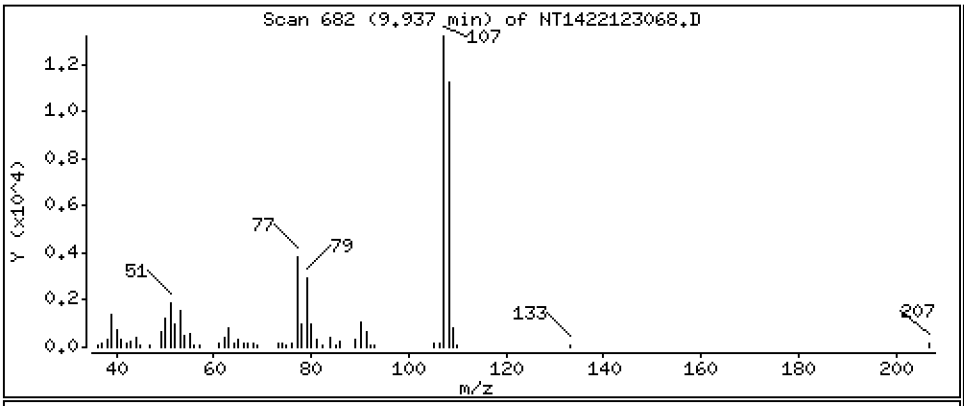
Operator: VTS

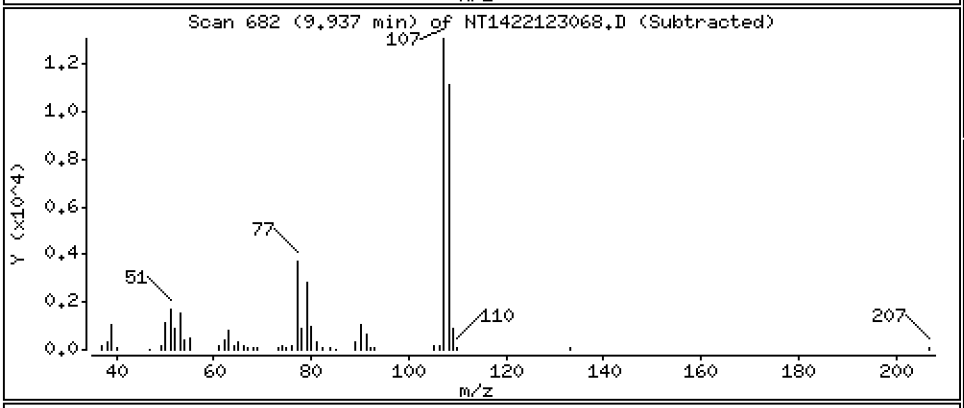
Column phase: ZB-5msi

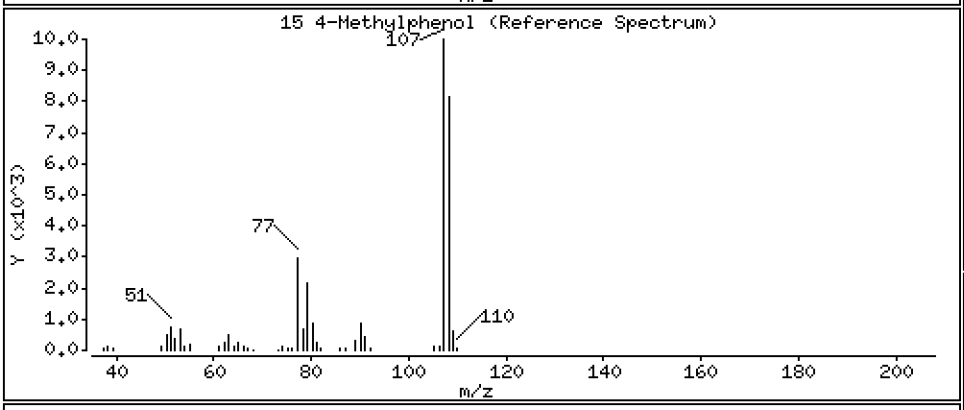
Column diameter: 0.25

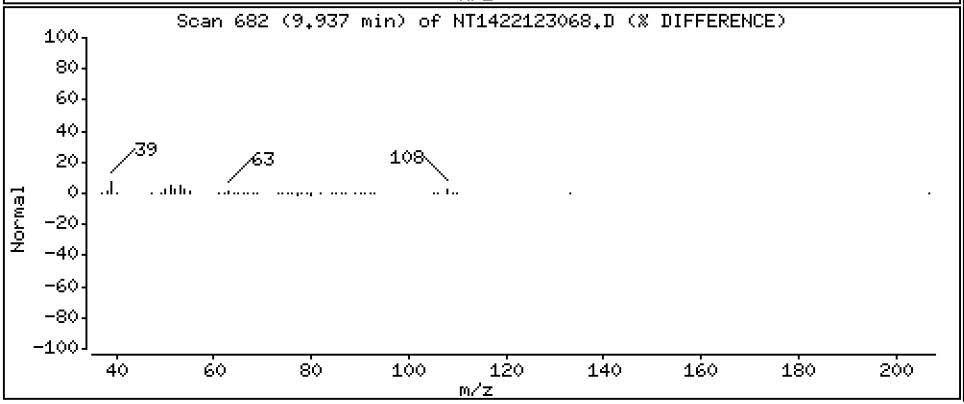
15 4-Methylphenol

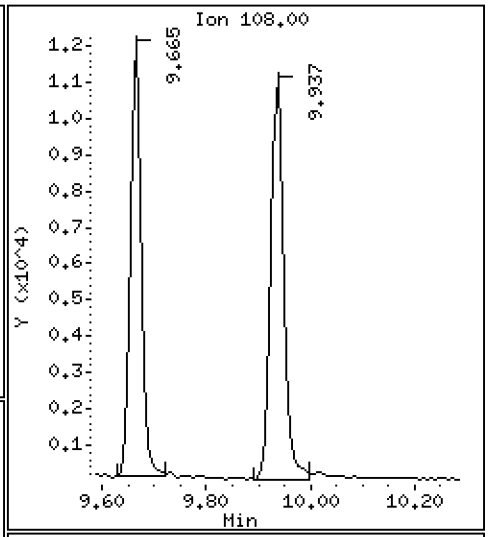
Concentration: 0.4654 ug/mL

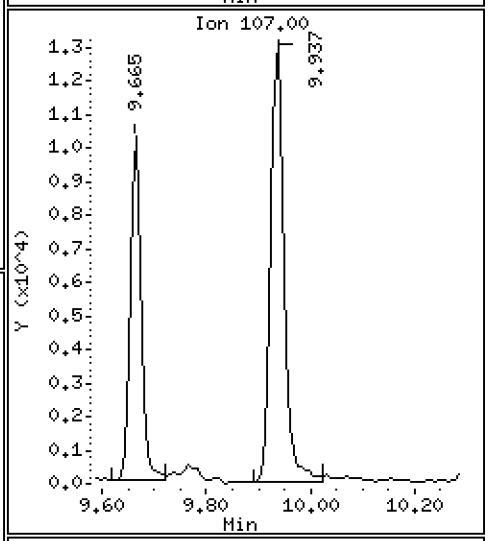


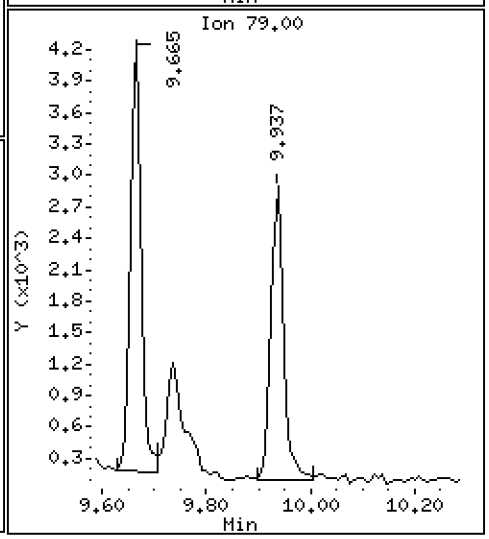












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

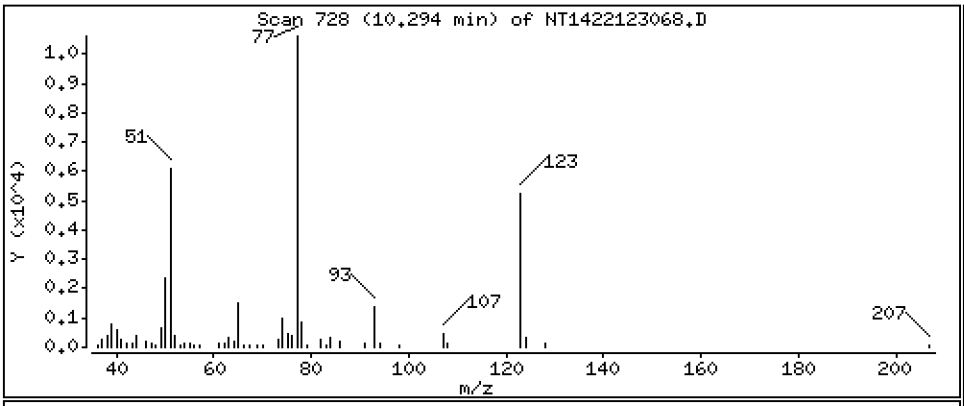
Operator: VTS

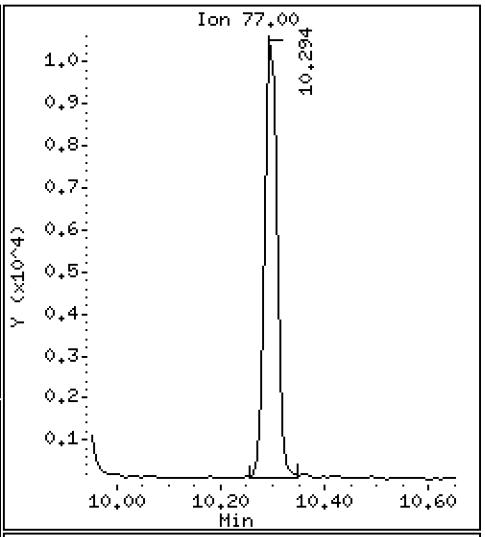
Column phase: ZB-5msi

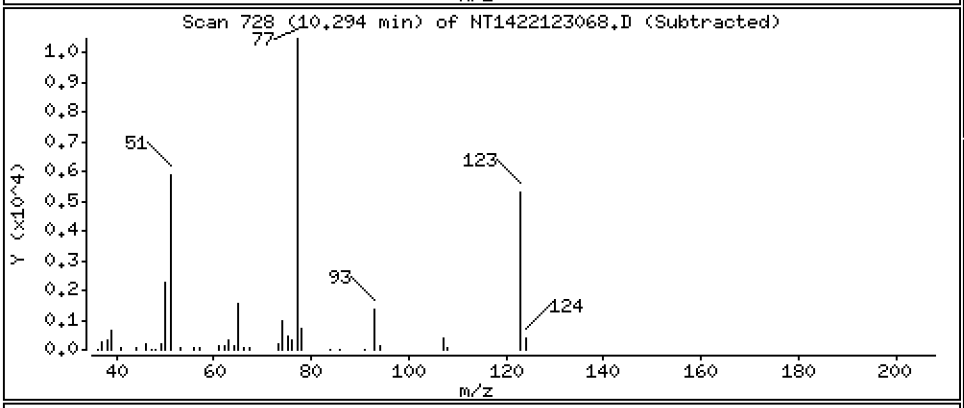
Column diameter: 0.25

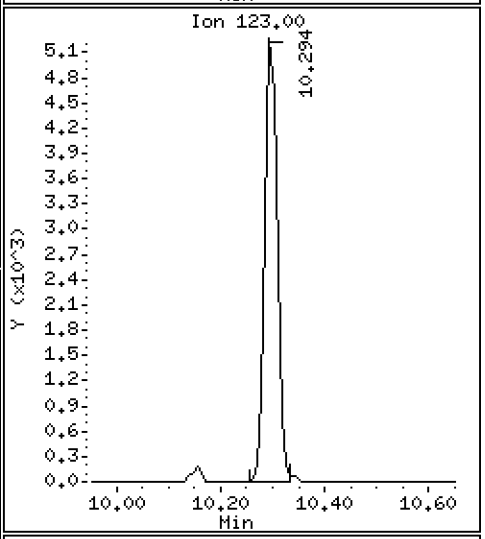
19 Nitrobenzene

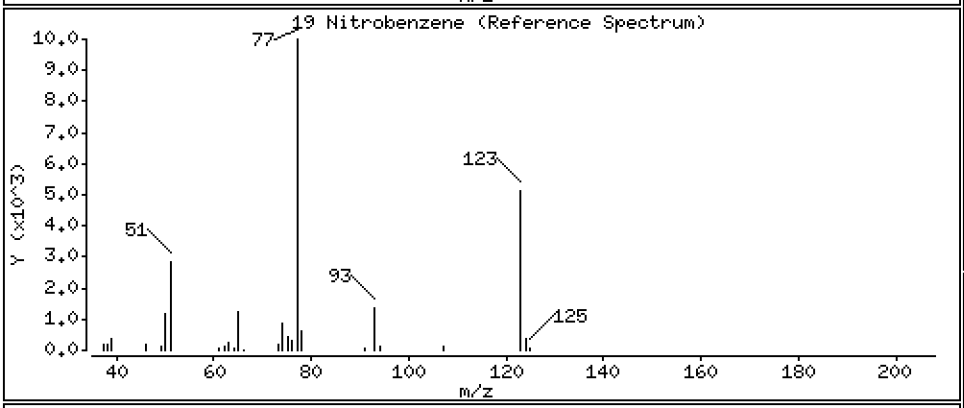
Concentration: 0.4693 ug/mL

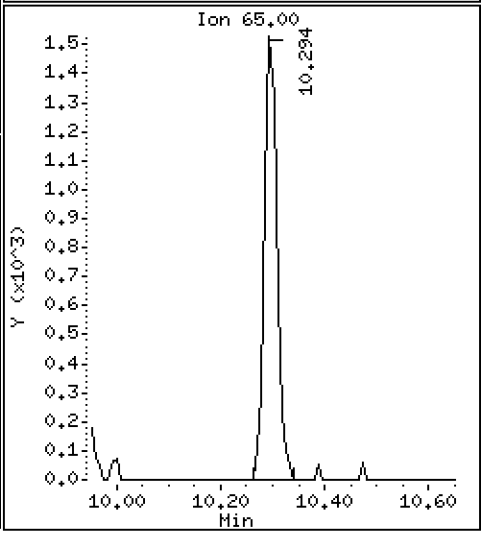


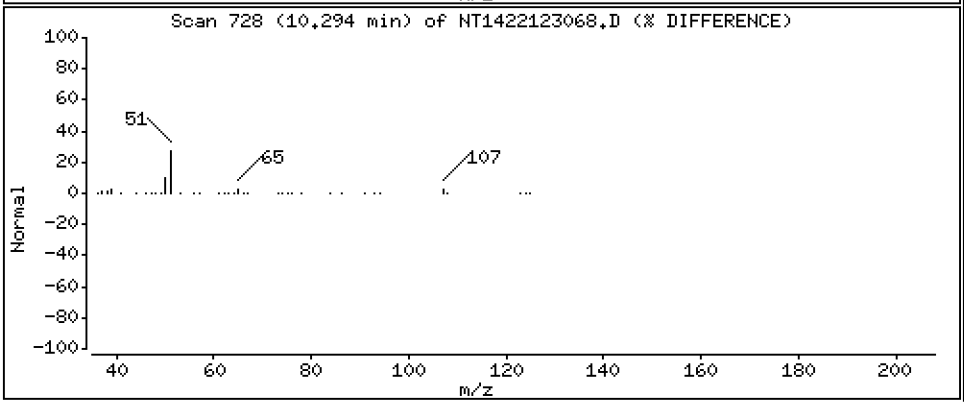












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

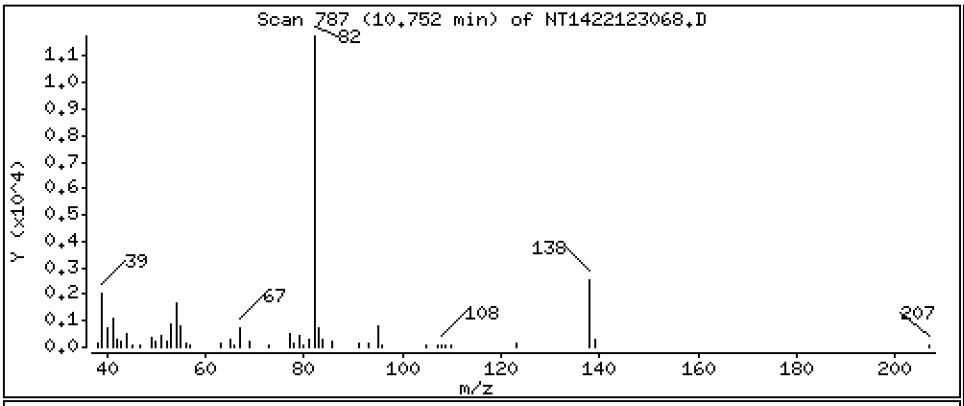
Operator: VTS

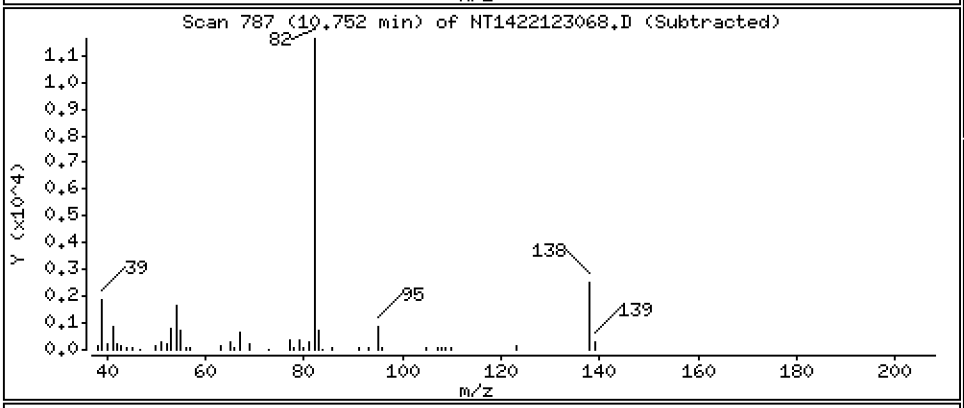
Column phase: ZB-5msi

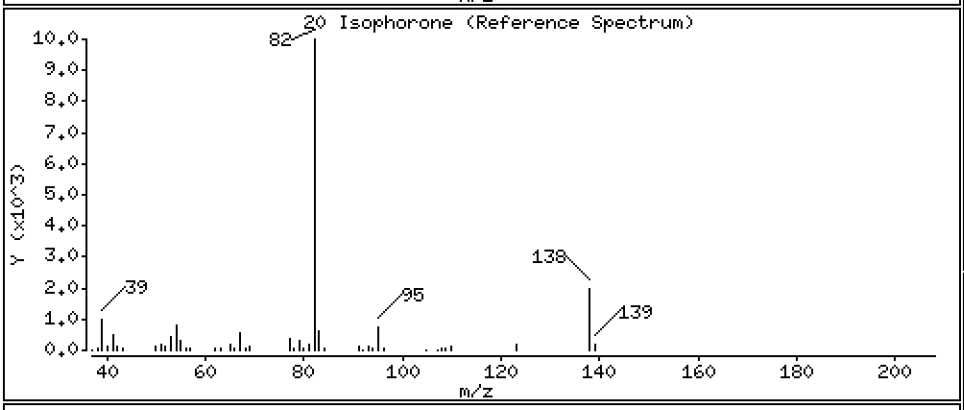
Column diameter: 0.25

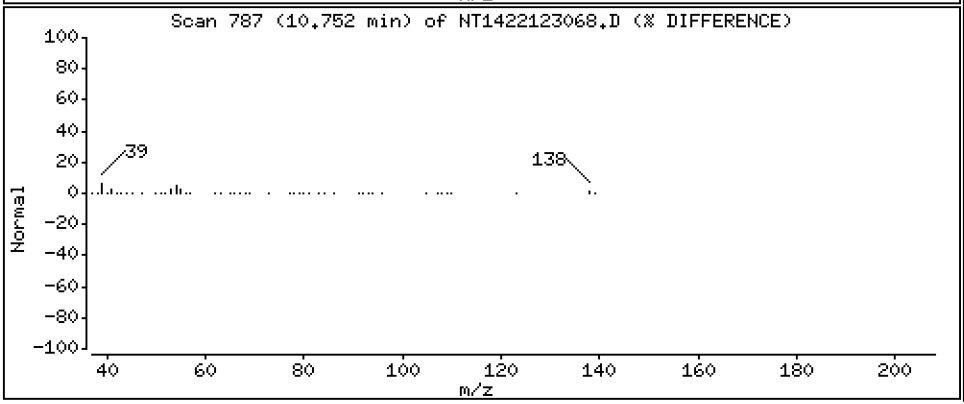
20 Isophorone

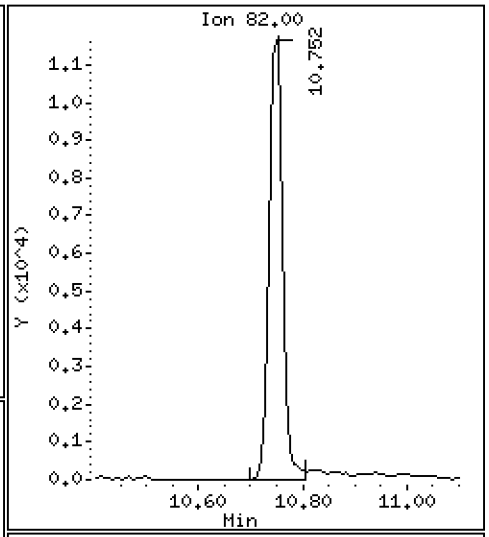
Concentration: 0.4524 ug/mL

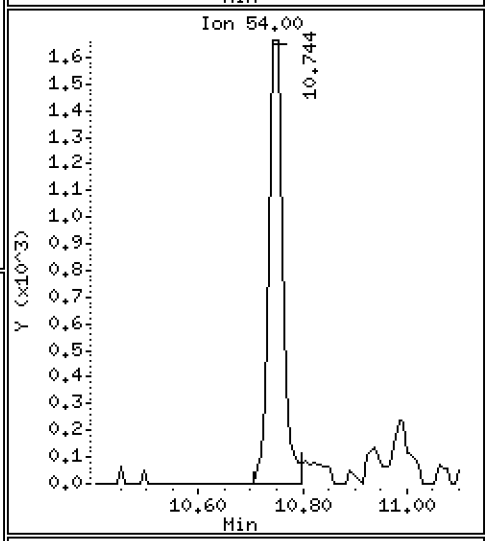


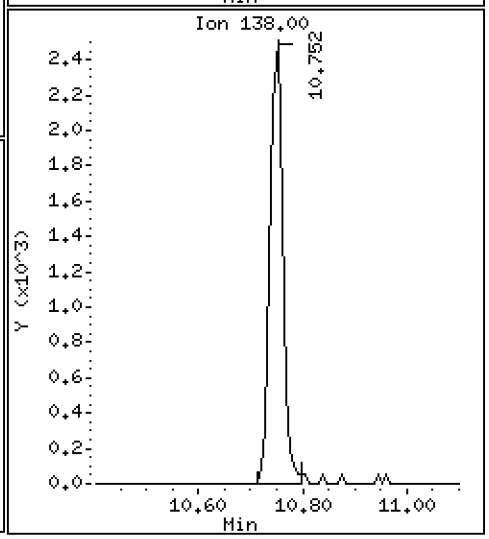












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

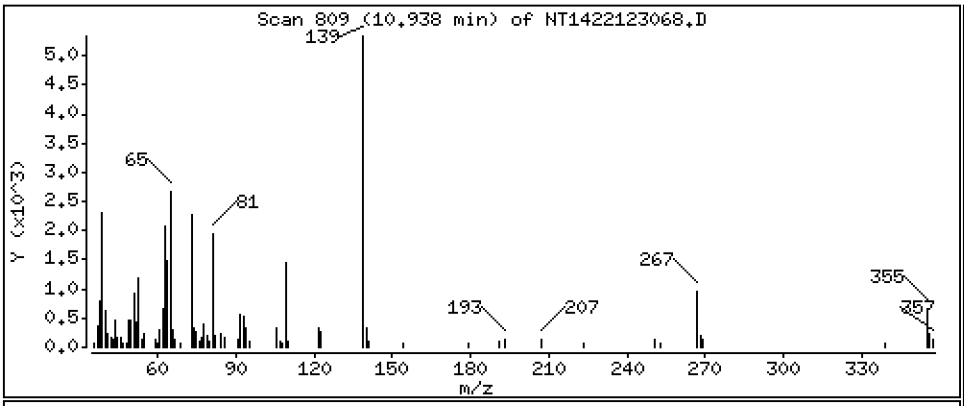
Operator: VTS

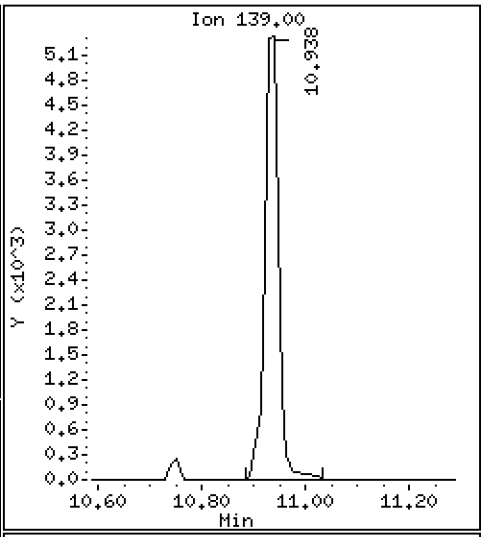
Column phase: ZB-5msi

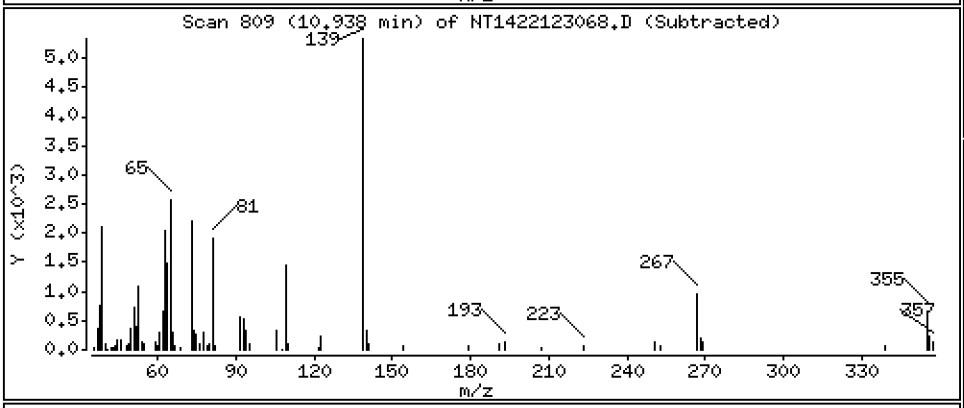
Column diameter: 0.25

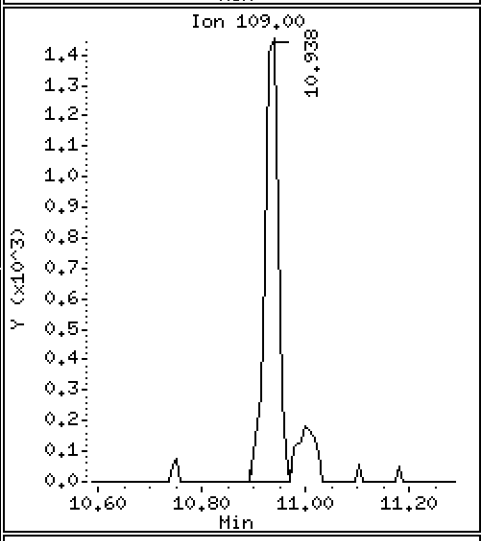
21 2-Nitrophenol

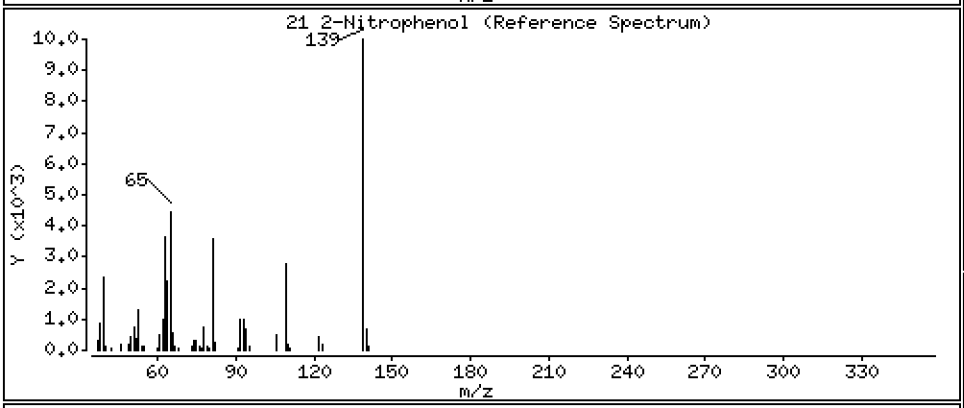
Concentration: 0.4732 ug/mL

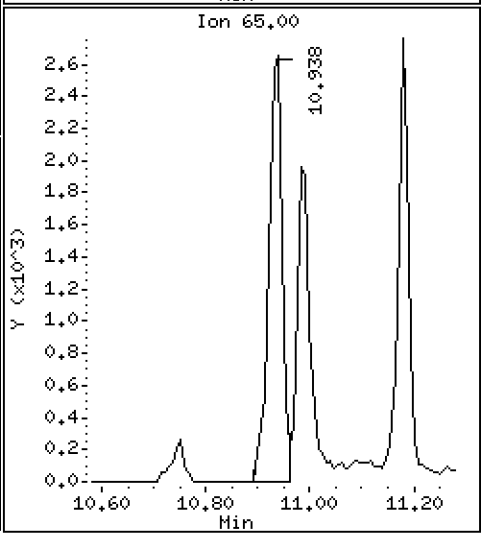


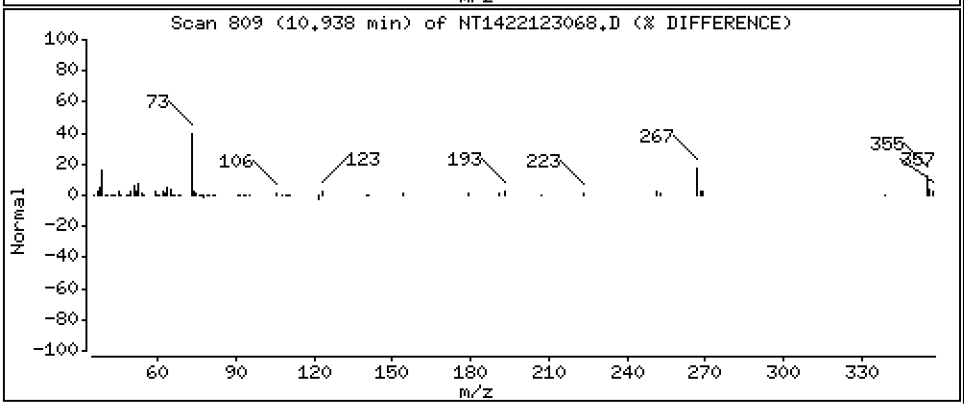












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

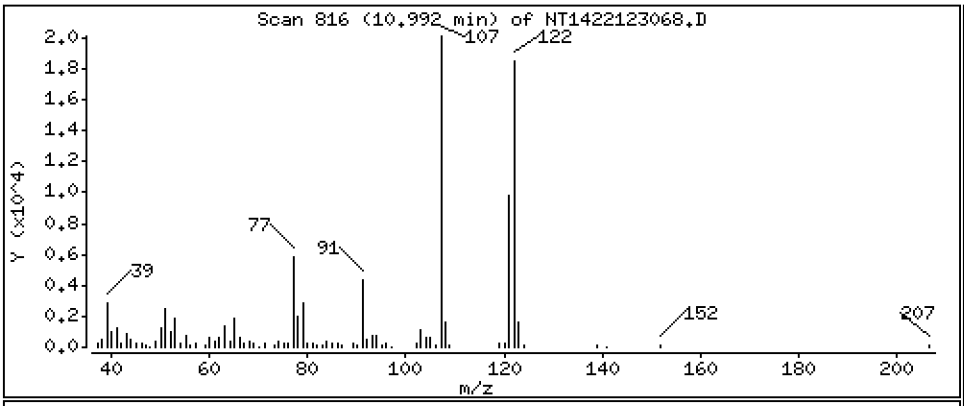
Operator: VTS

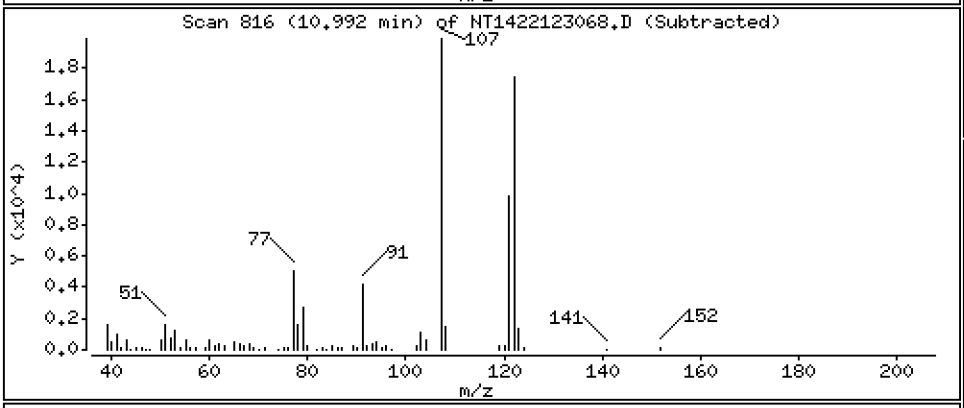
Column phase: ZB-5msi

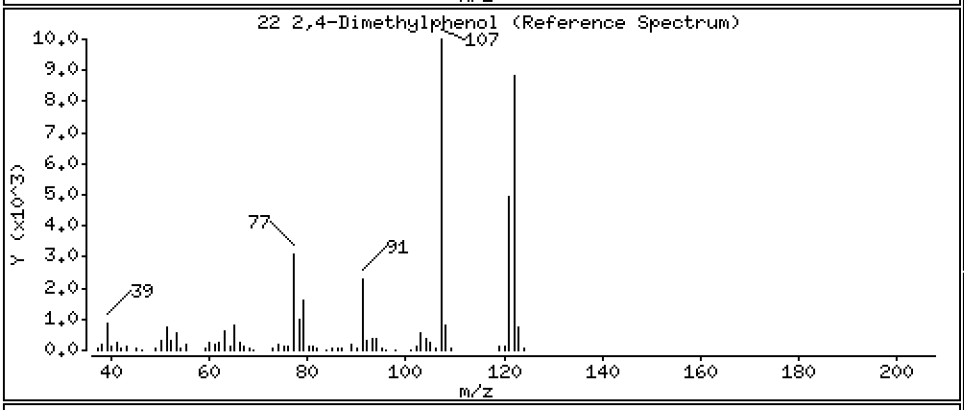
Column diameter: 0.25

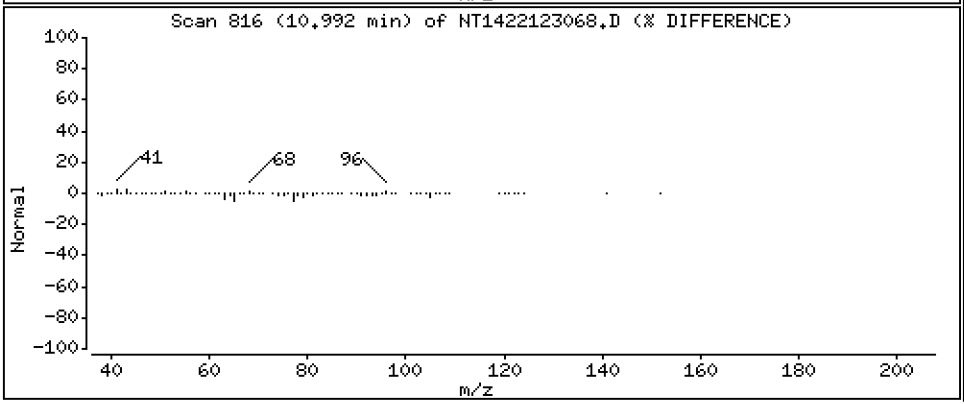
22 2,4-Dimethylphenol

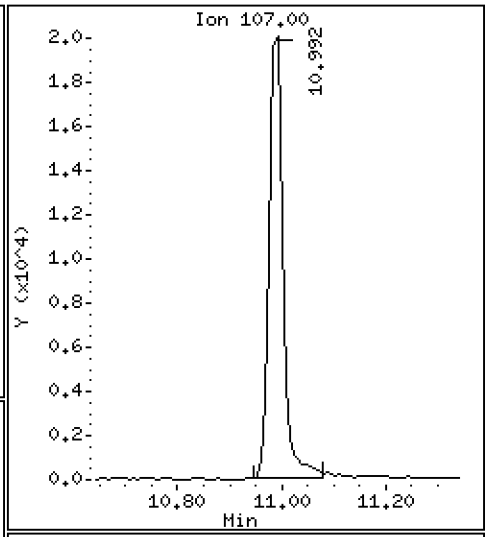
Concentration: 0.9769 ug/mL

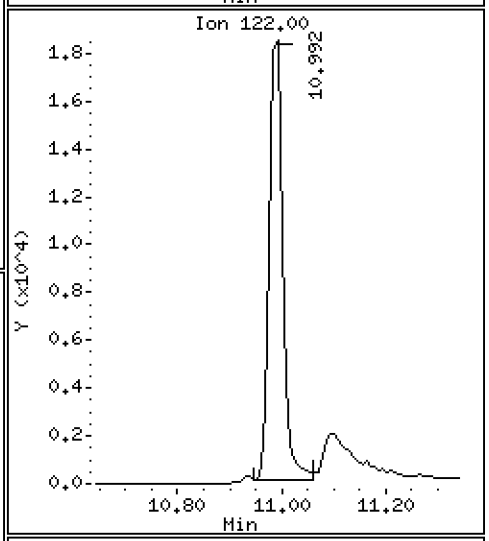


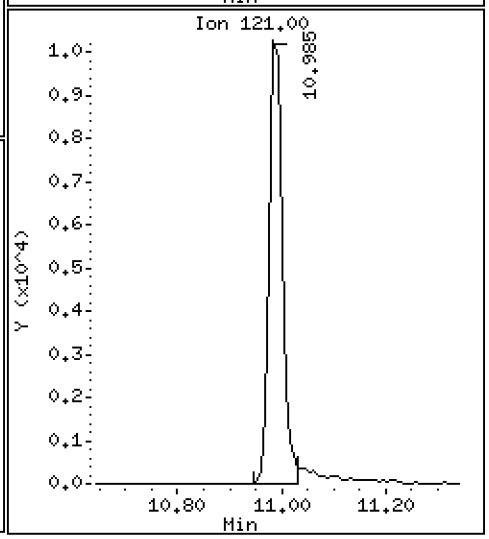












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

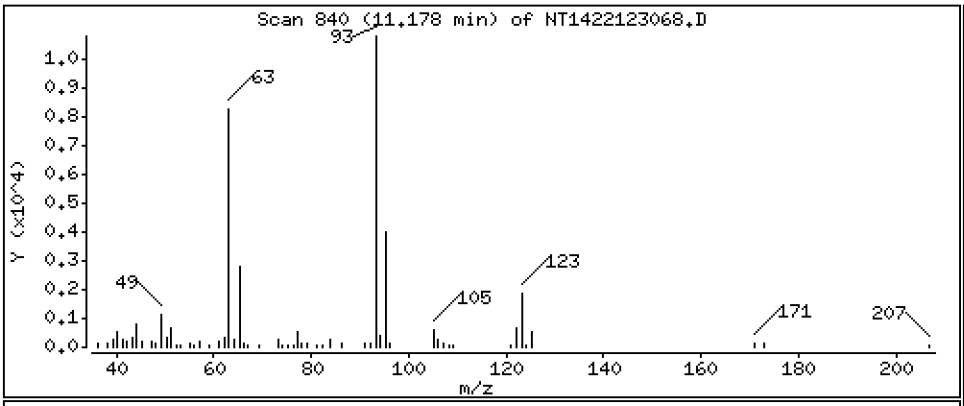
Operator: VTS

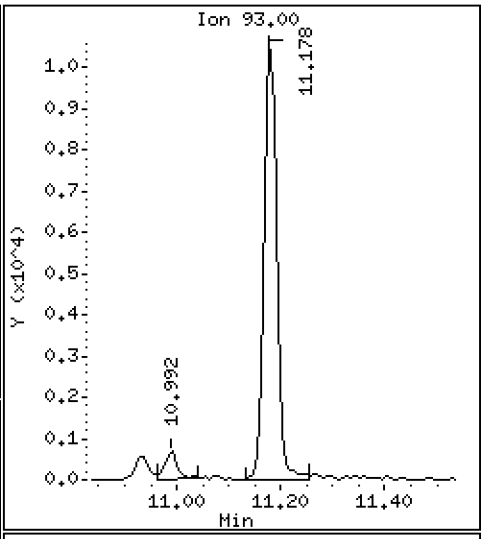
Column phase: ZB-5msi

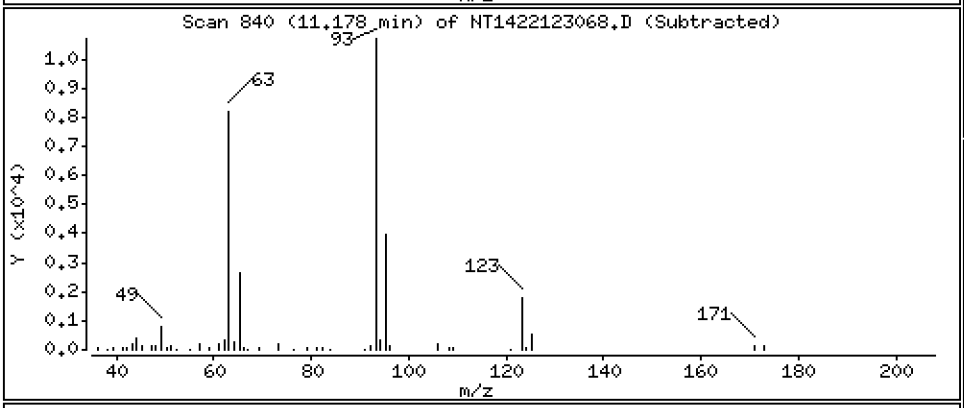
Column diameter: 0.25

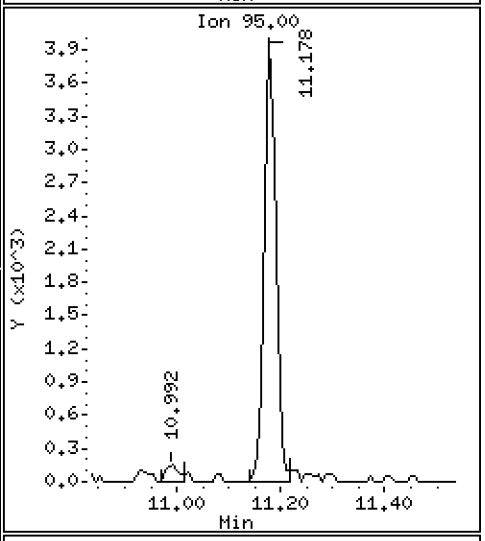
23 Bis(2-Chloroethoxy)methane

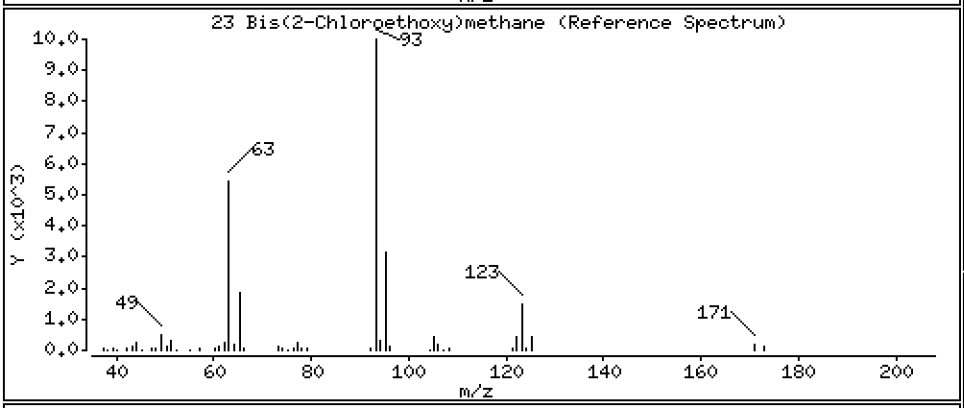
Concentration: 0.4949 ug/mL

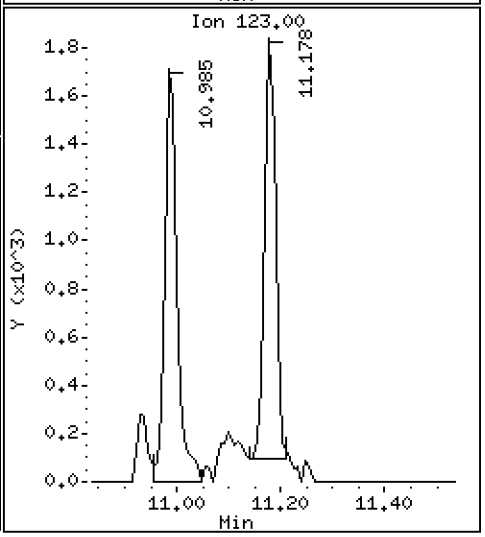


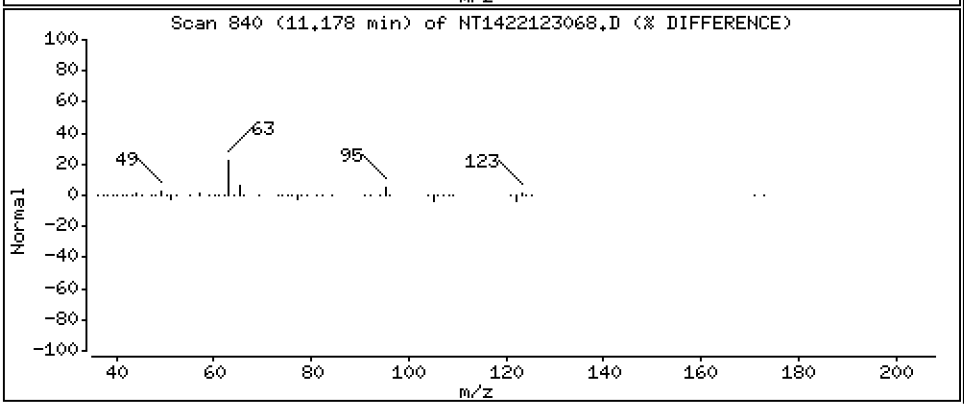












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

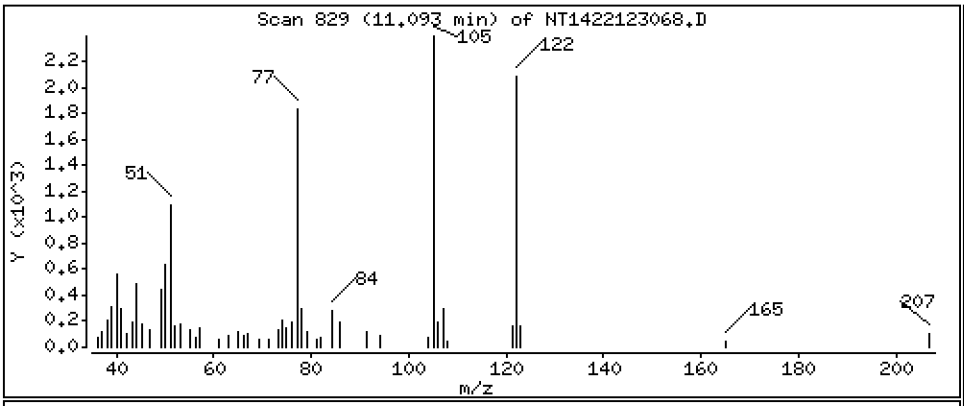
Operator: VTS

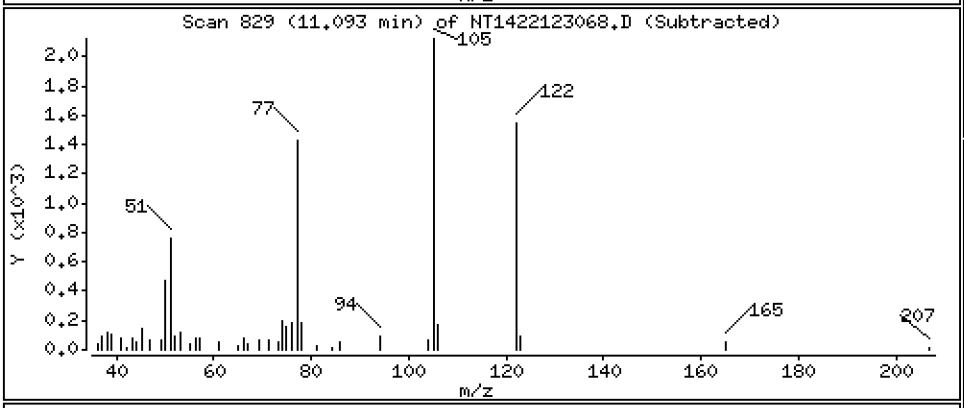
Column phase: ZB-5msi

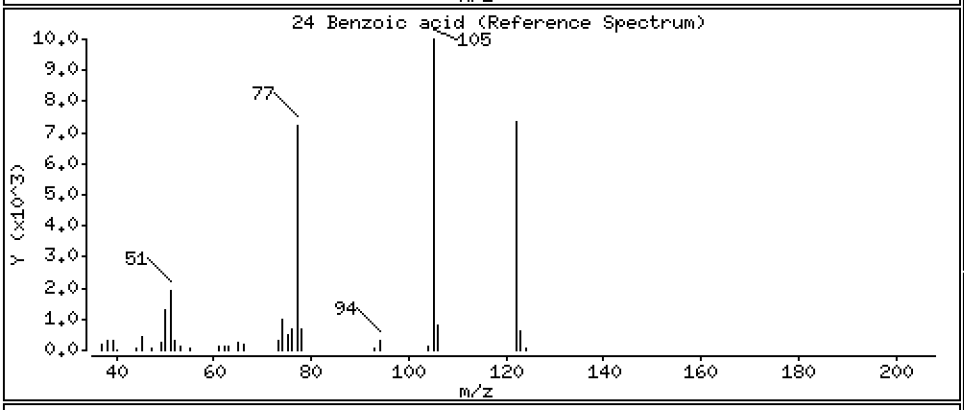
Column diameter: 0.25

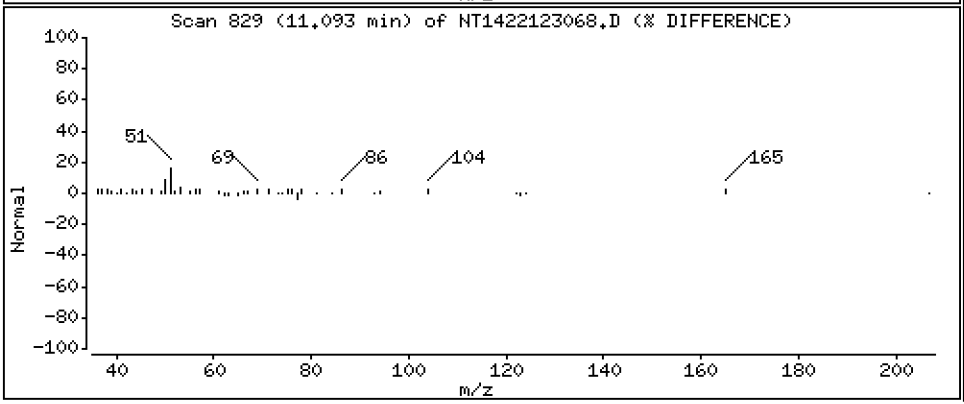
24 Benzoic acid

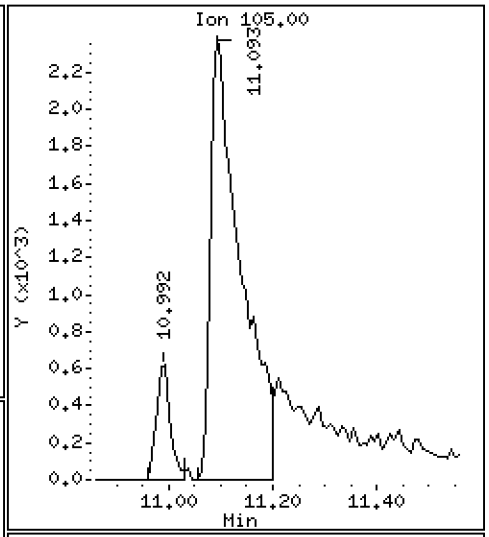
Concentration: 0.4477 ug/mL

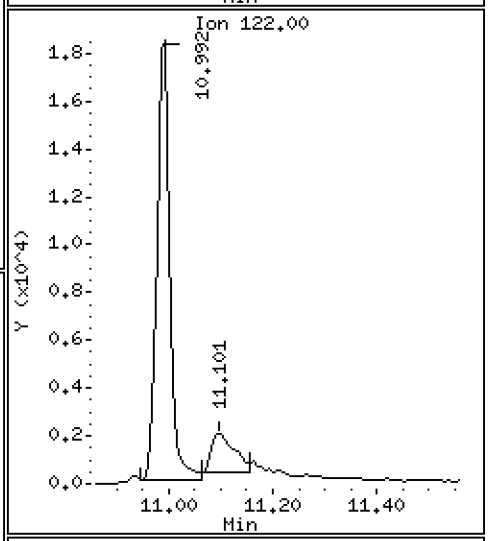


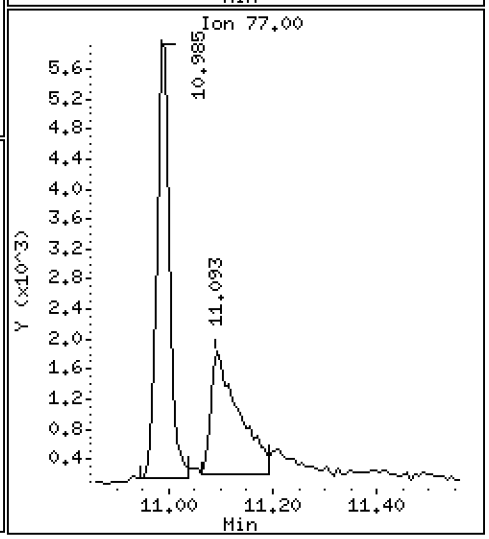












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

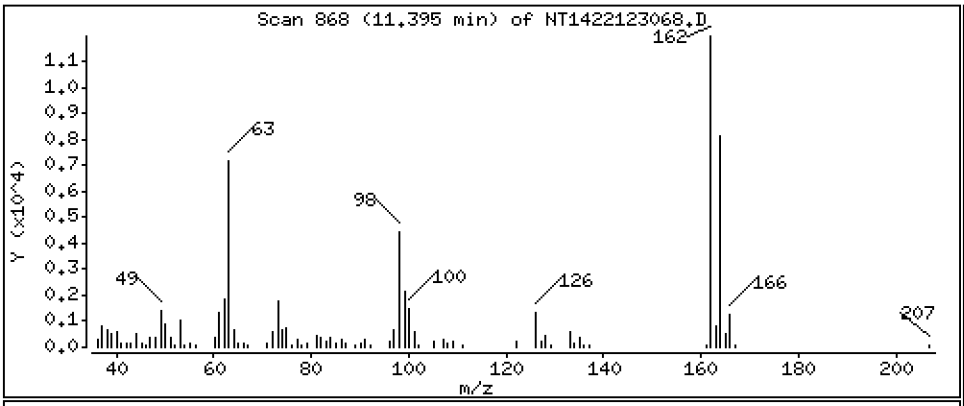
Operator: VTS

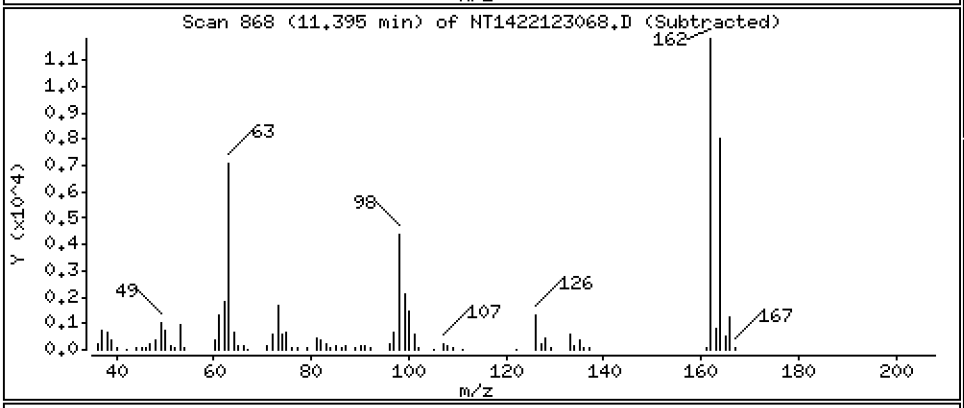
Column phase: ZB-5msi

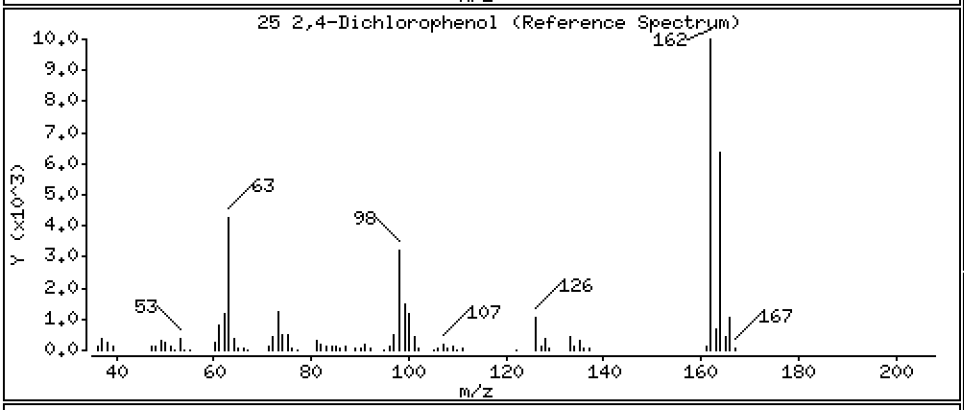
Column diameter: 0.25

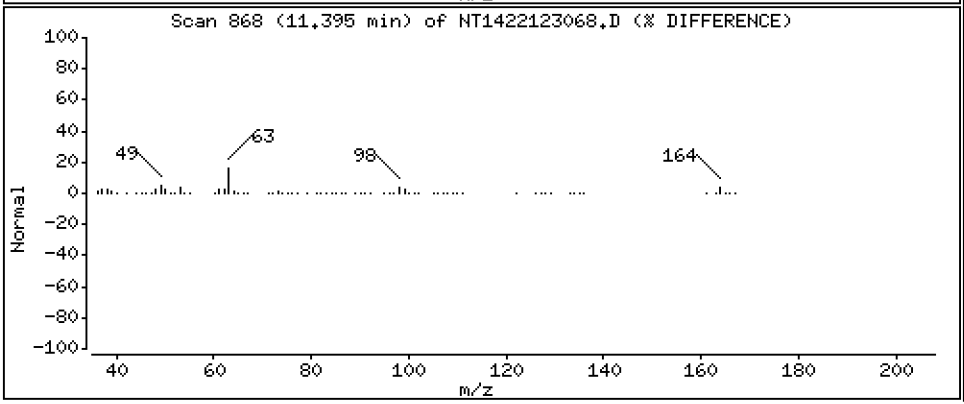
25 2,4-Dichlorophenol

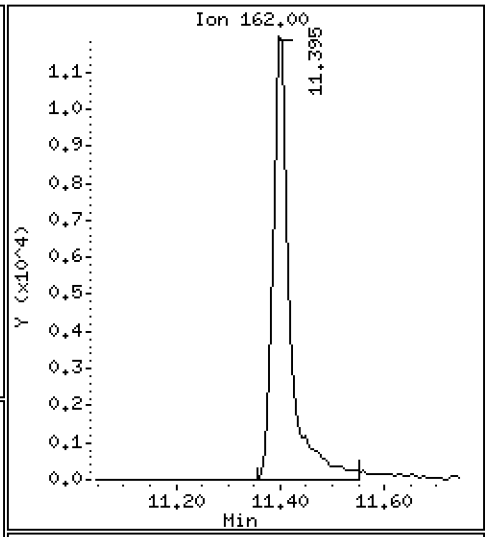
Concentration: 0.9599 ug/mL

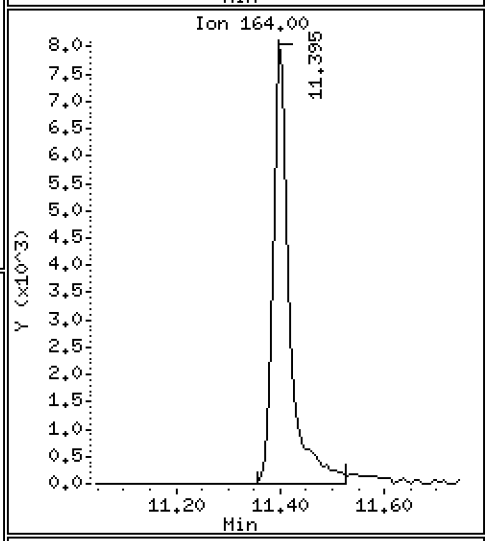


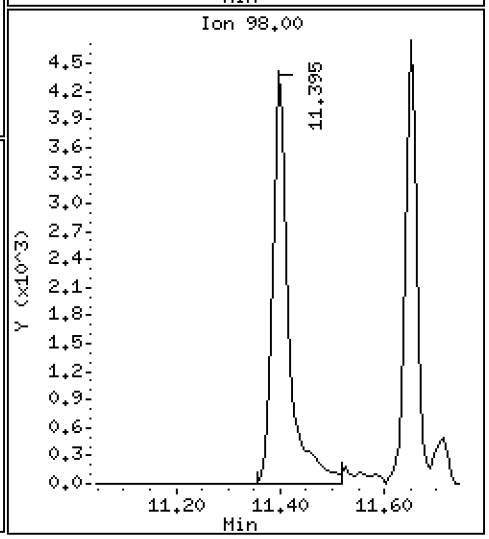












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123068.D

Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

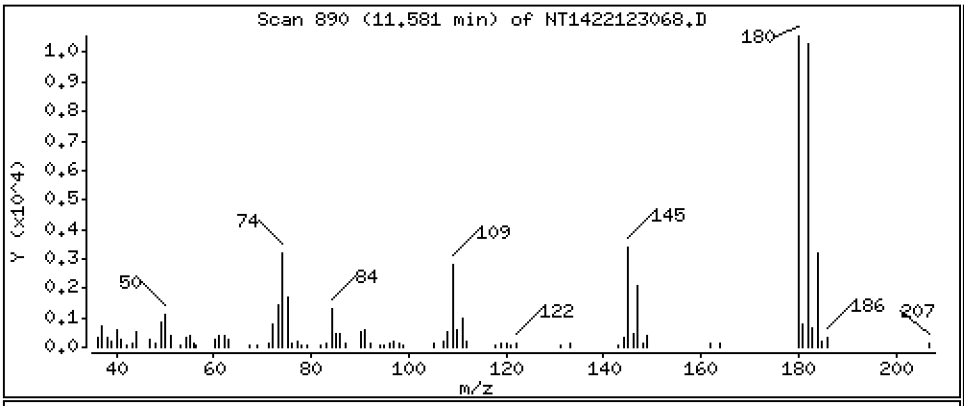
Operator: VTS

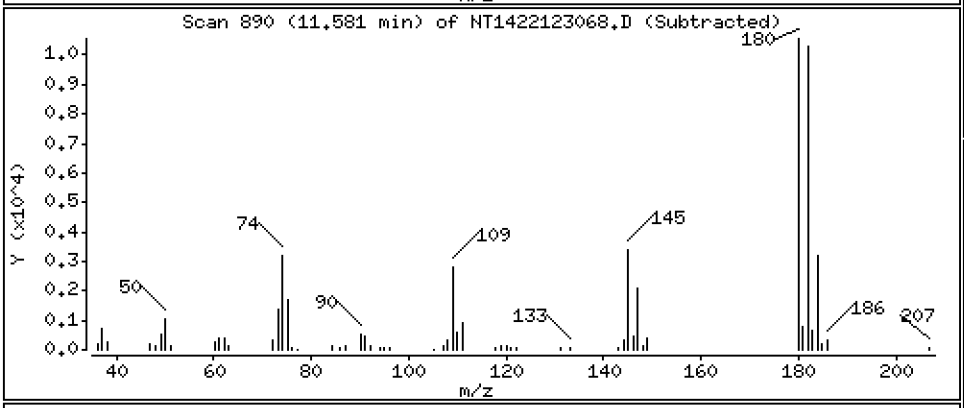
Column phase: ZB-5msi

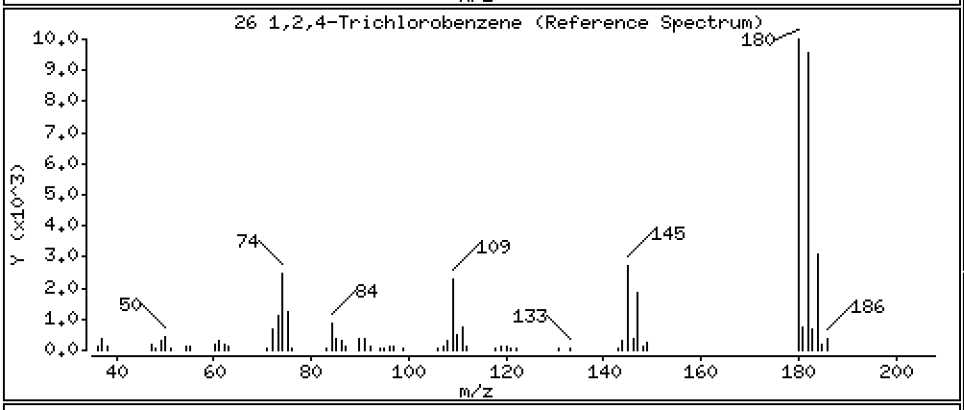
Column diameter: 0.25

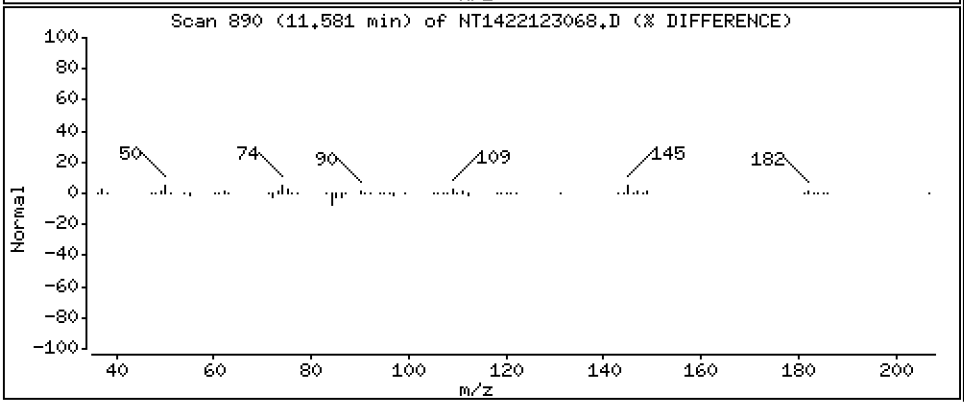
26 1,2,4-Trichlorobenzene

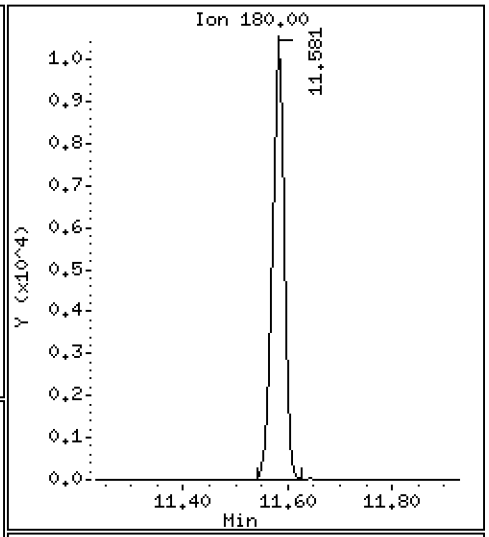
Concentration: 0.4890 ug/mL

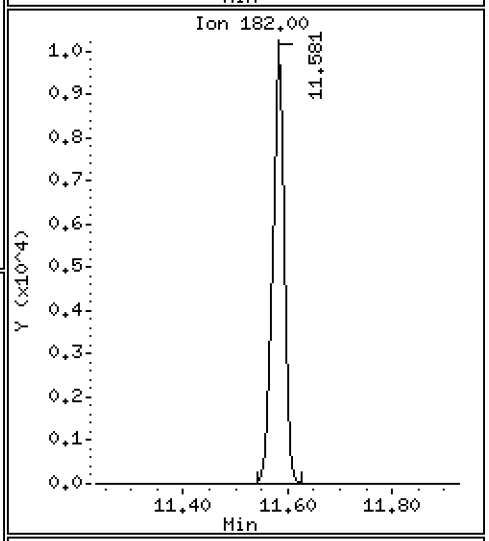


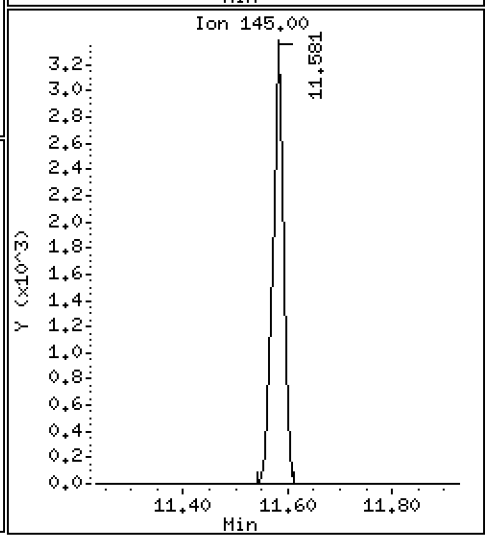












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

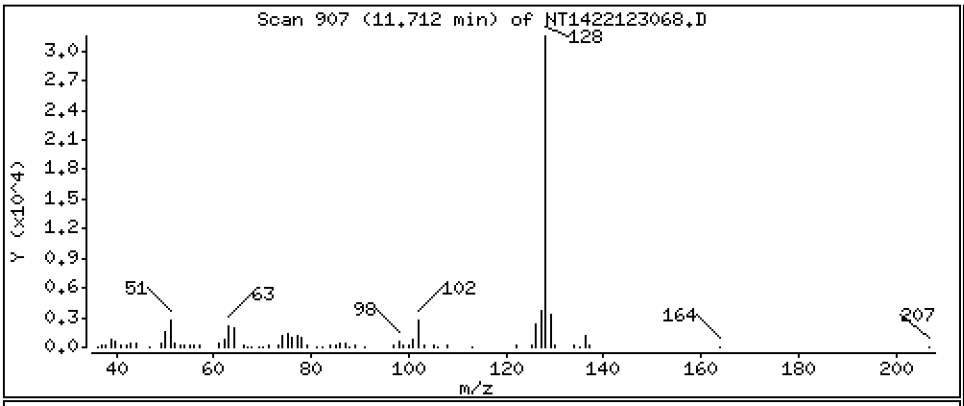
Operator: VTS

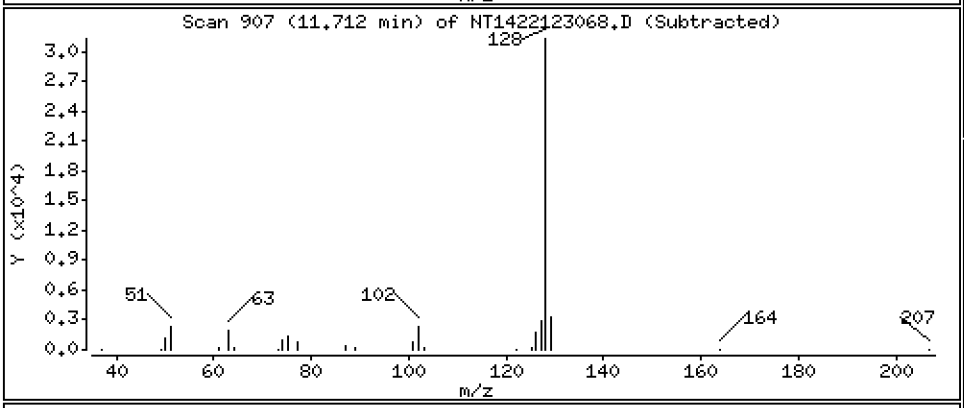
Column phase: ZB-5msi

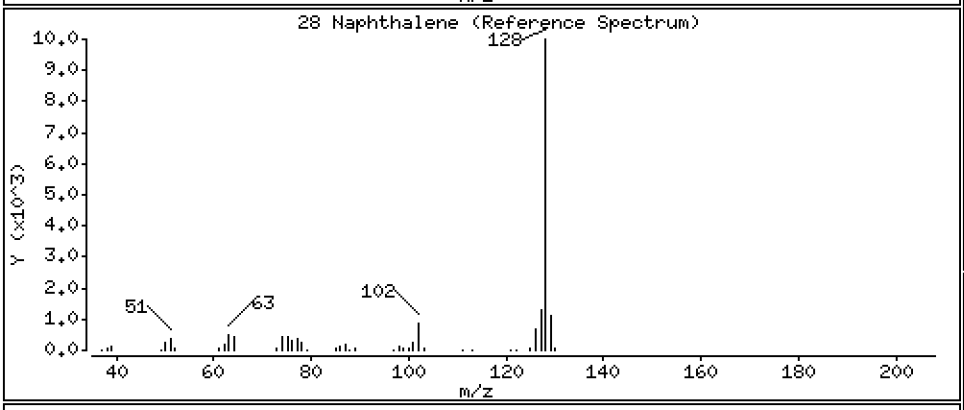
Column diameter: 0.25

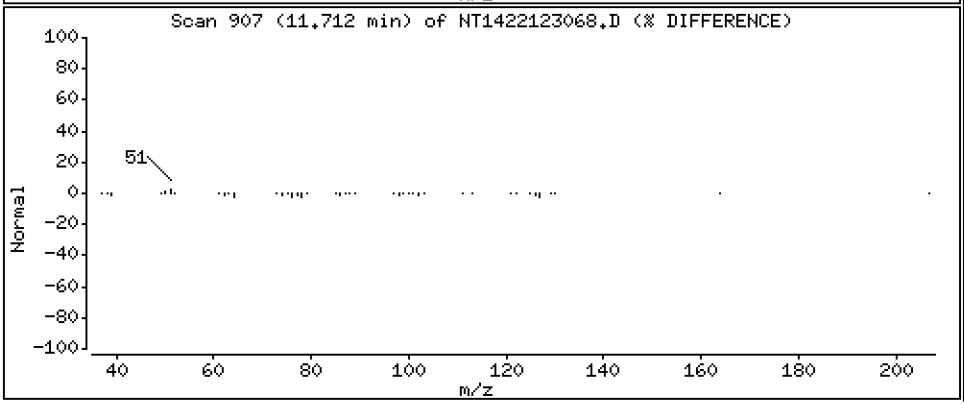
28 Naphthalene

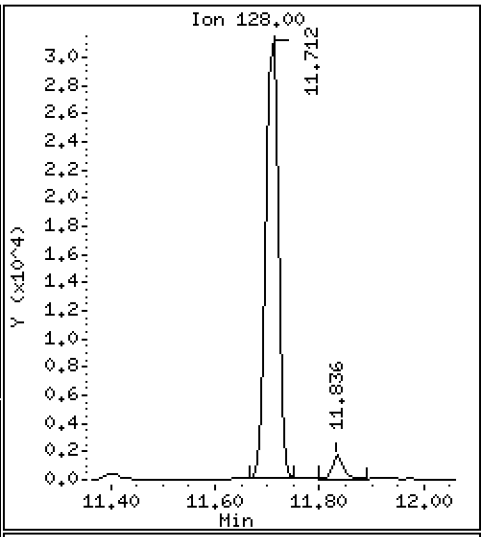
Concentration: 0.4854 ug/mL

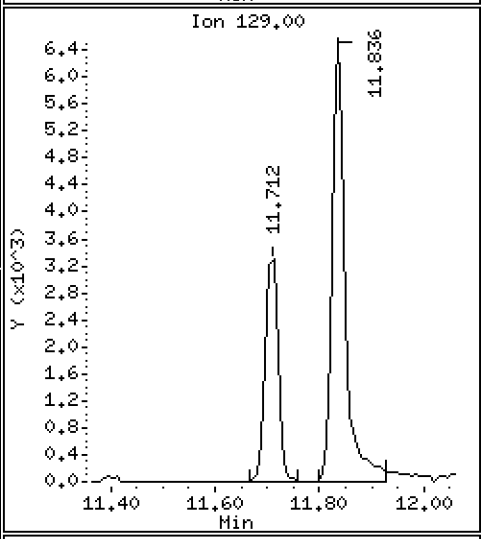


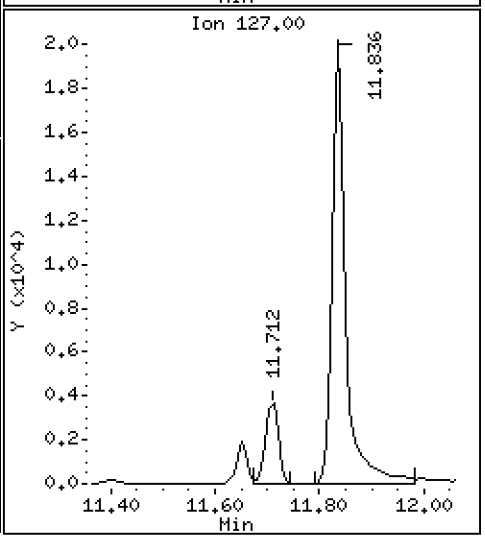












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

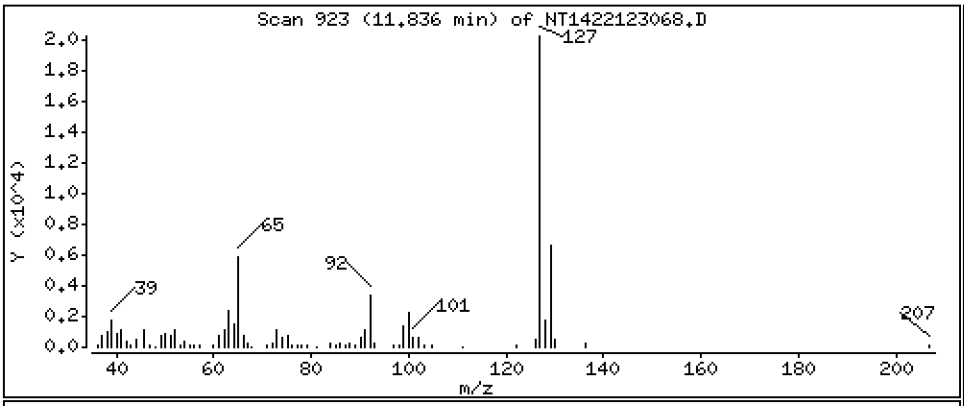
Operator: VTS

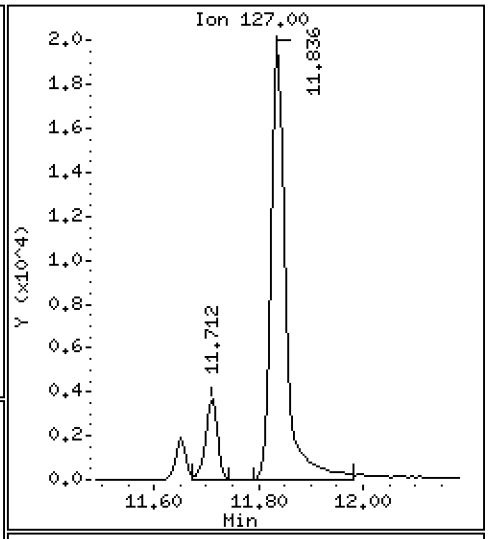
Column phase: ZB-5msi

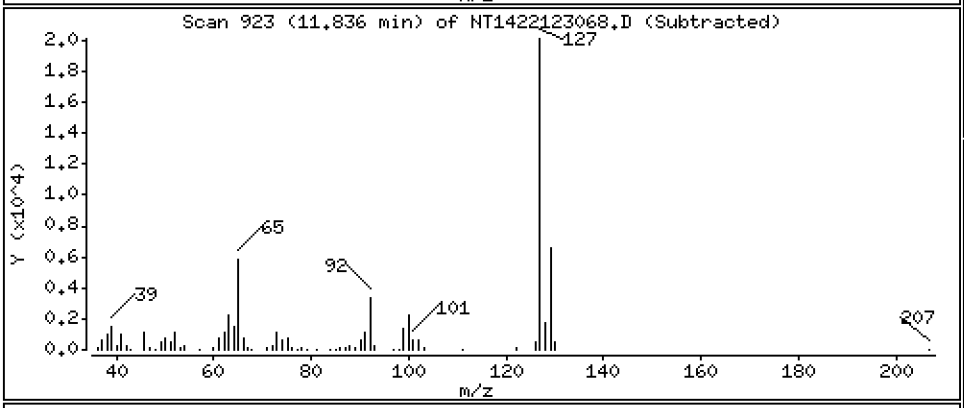
Column diameter: 0.25

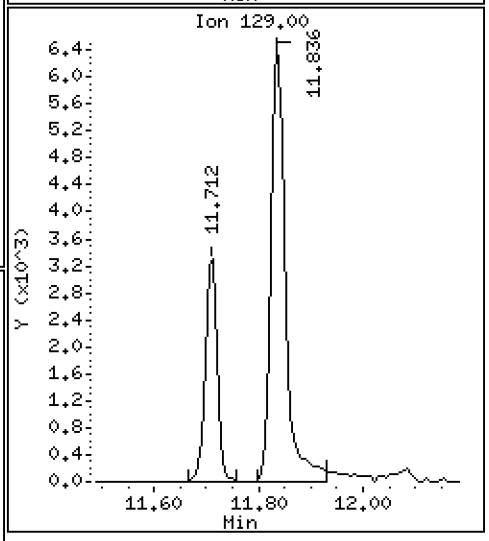
29 4-Chloroaniline

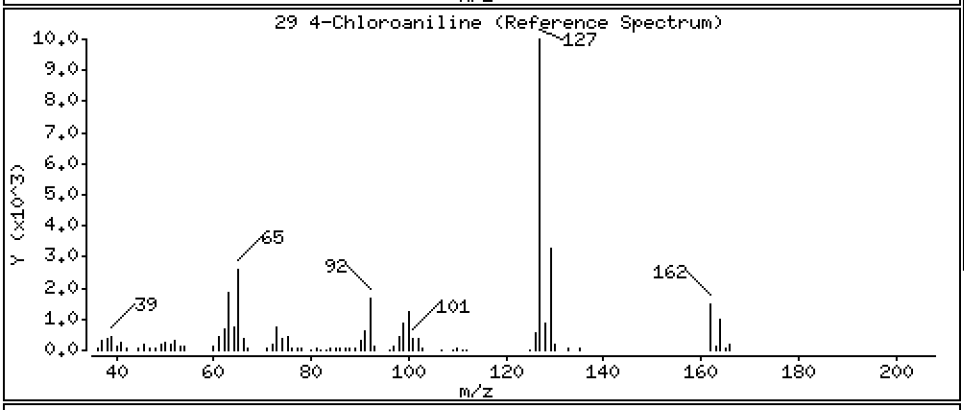
Concentration: 0.8885 ug/mL

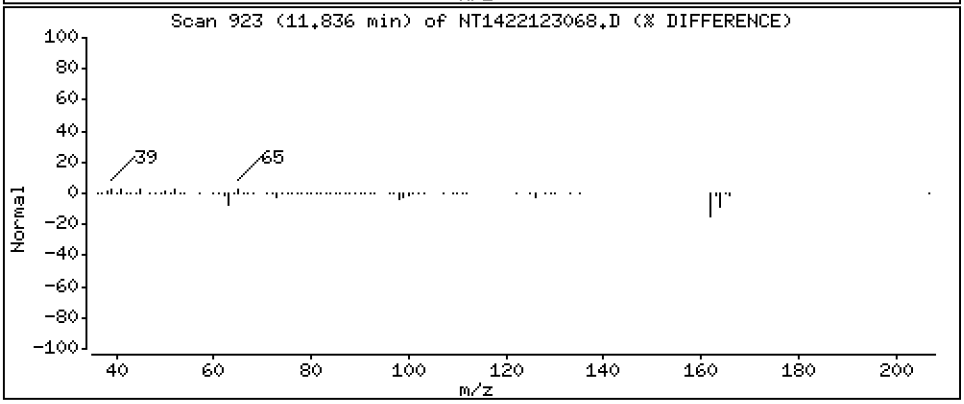












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

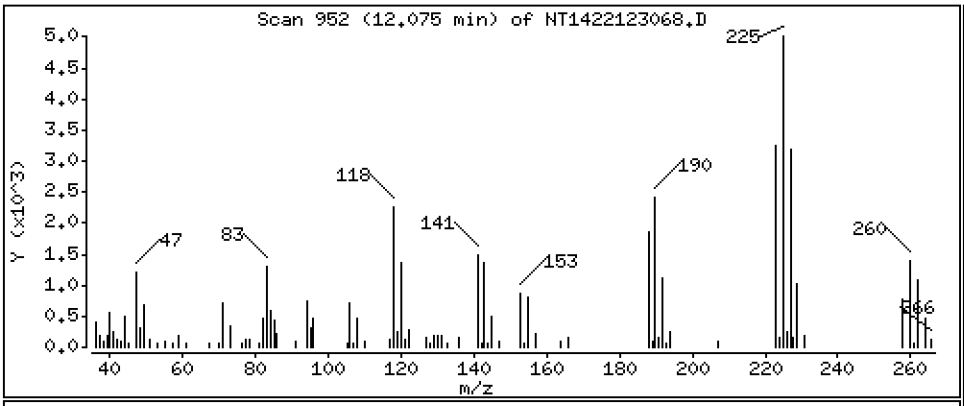
Operator: VTS

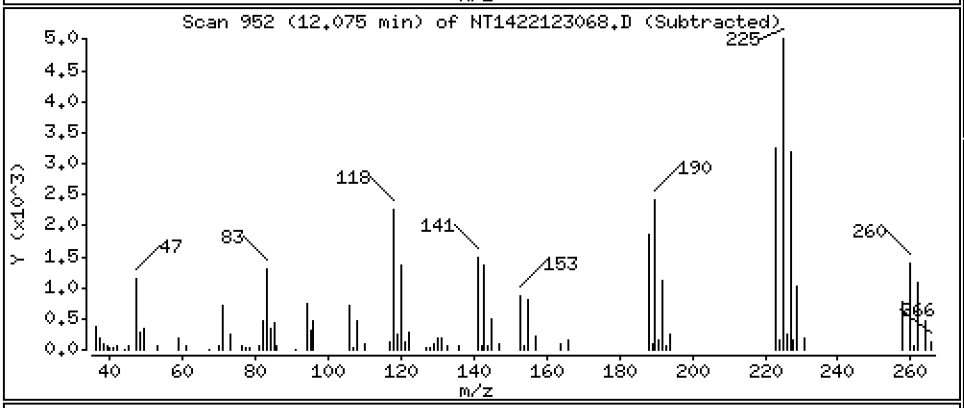
Column phase: ZB-5msi

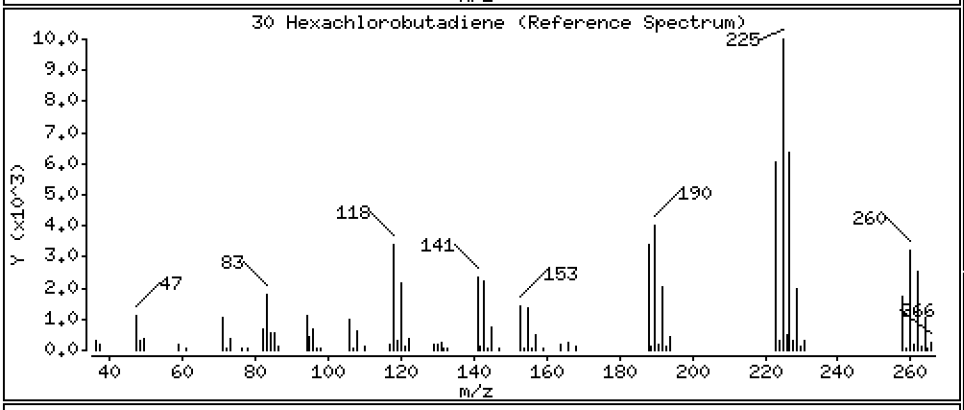
Column diameter: 0.25

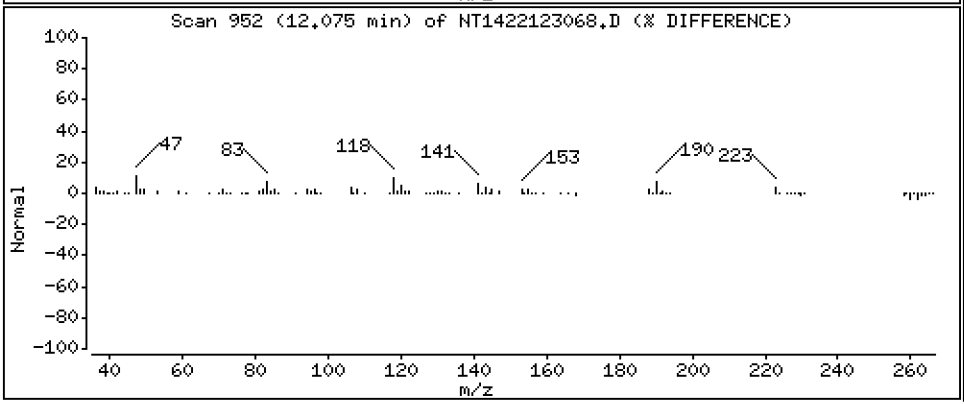
30 Hexachlorobutadiene

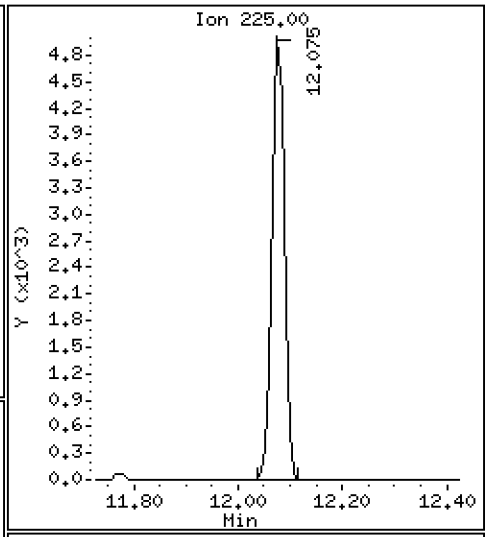
Concentration: 0.4777 ug/mL

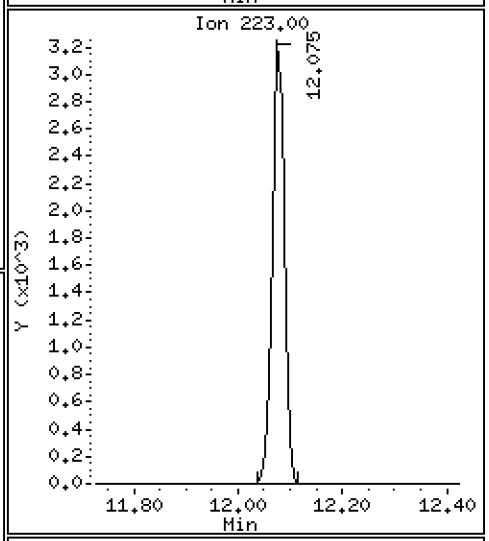


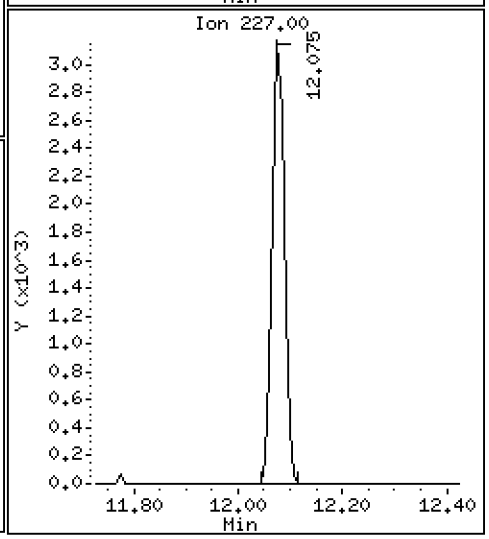












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

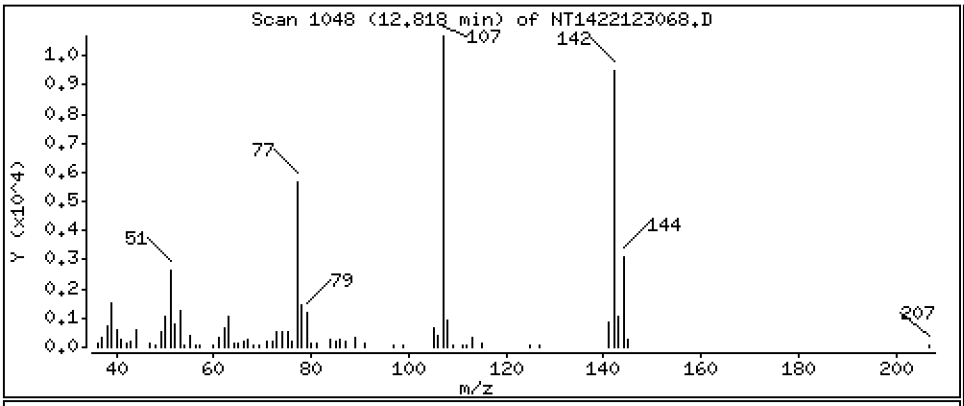
Operator: VTS

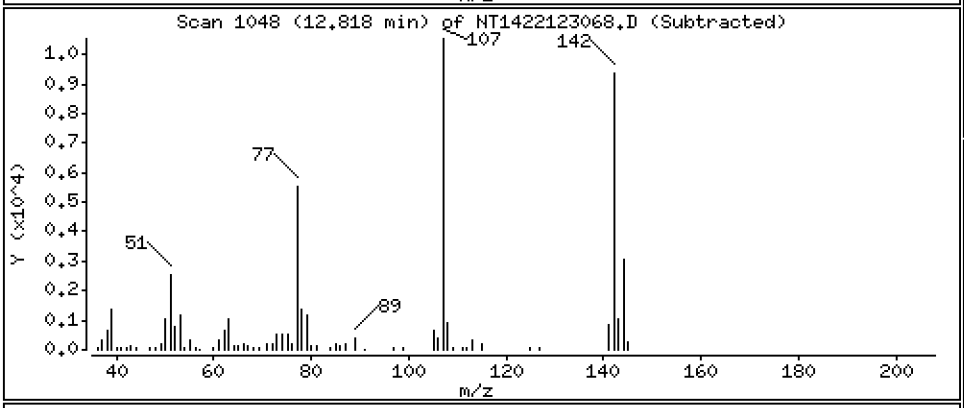
Column phase: ZB-5msi

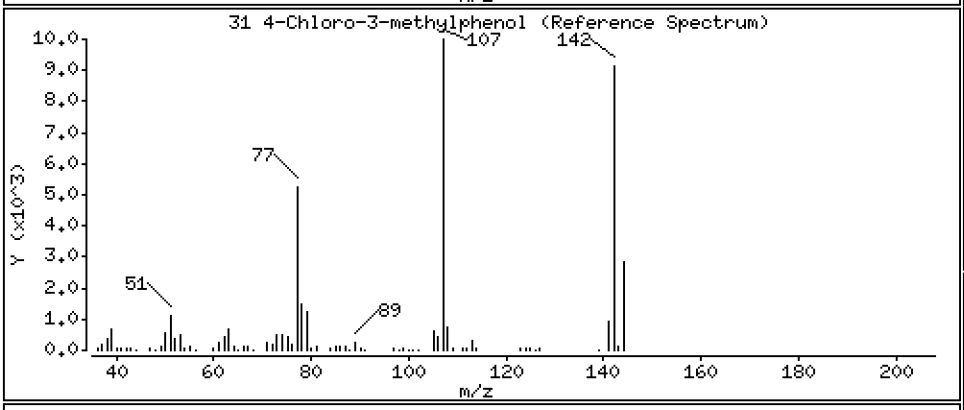
Column diameter: 0.25

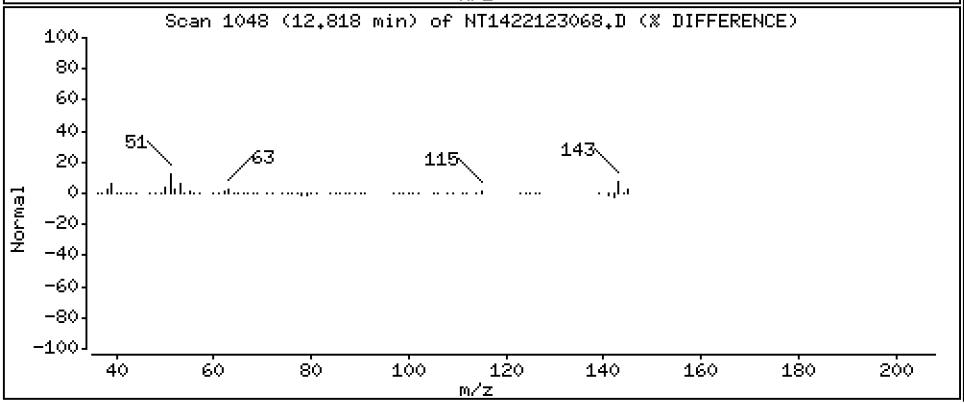
31 4-Chloro-3-methylphenol

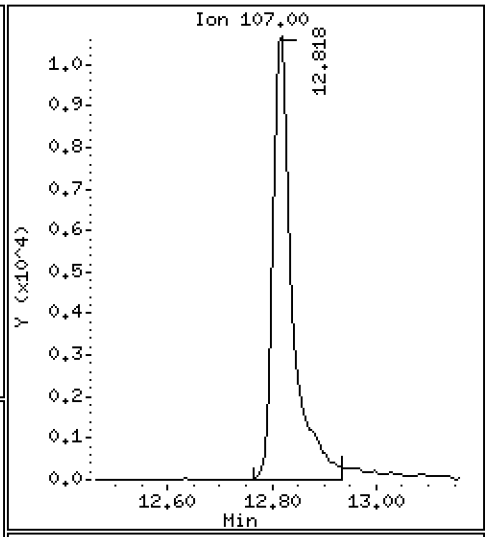
Concentration: 0.9495 ug/mL

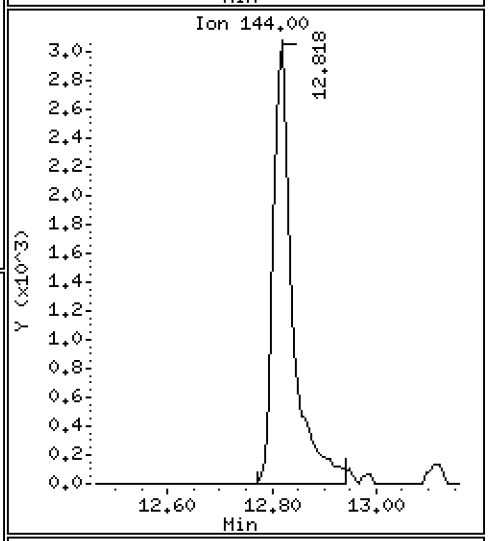


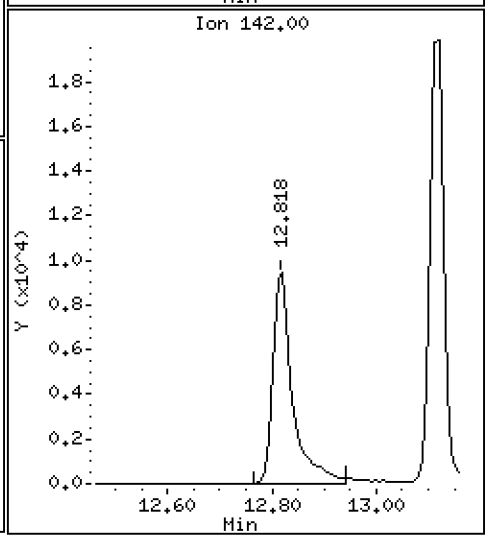












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

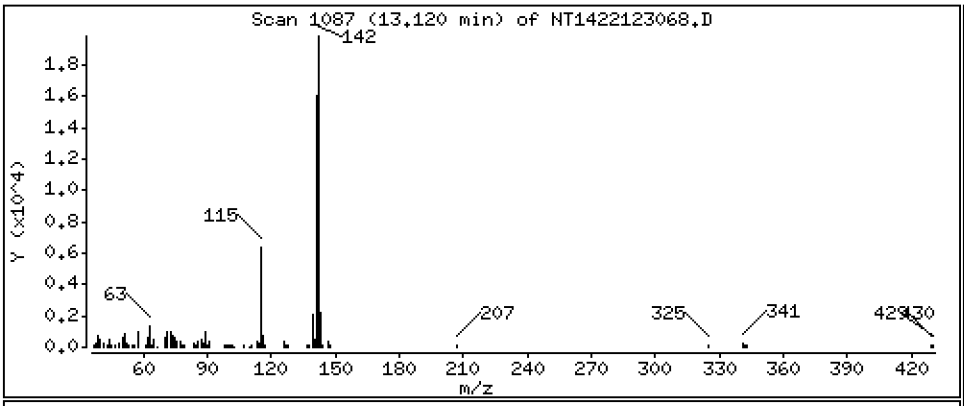
Operator: VTS

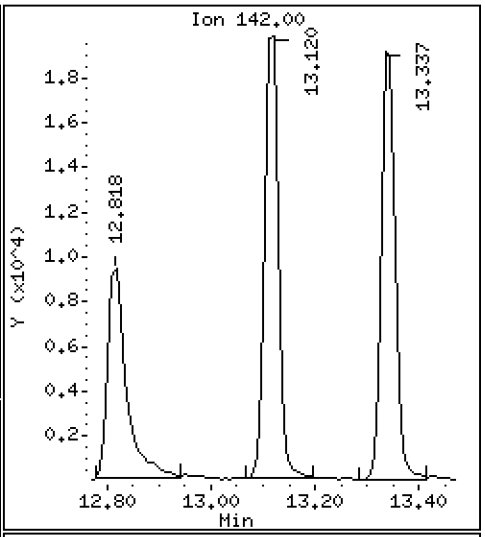
Column phase: ZB-5msi

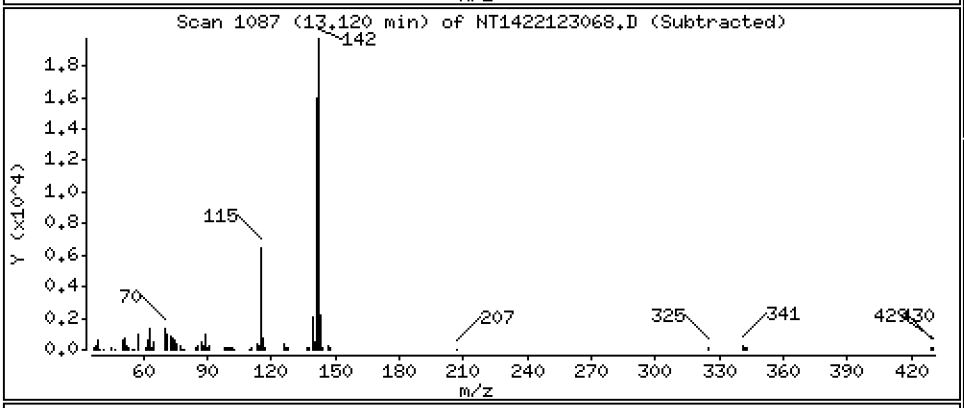
Column diameter: 0.25

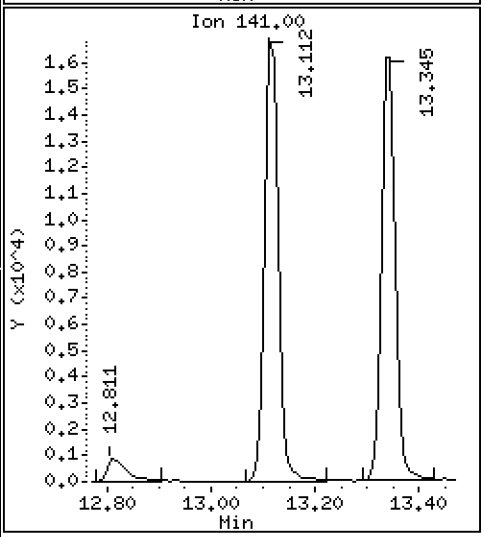
32 2-Methylnaphthalene

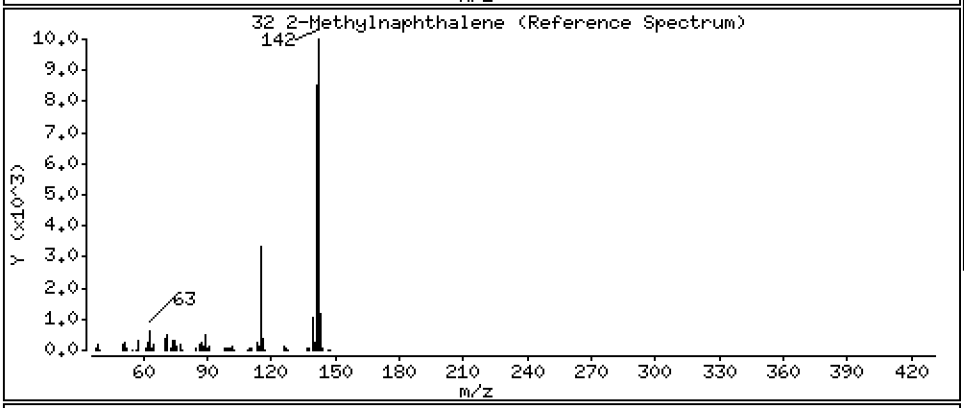
Concentration: 0.4656 ug/mL

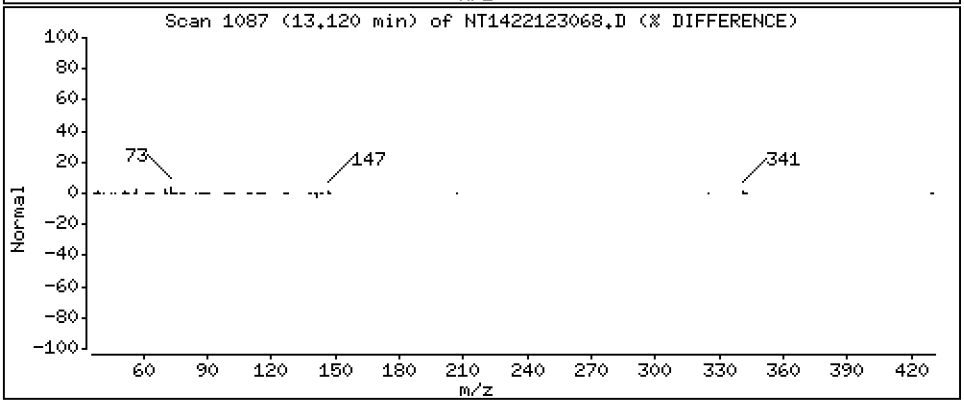












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123068.D

Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

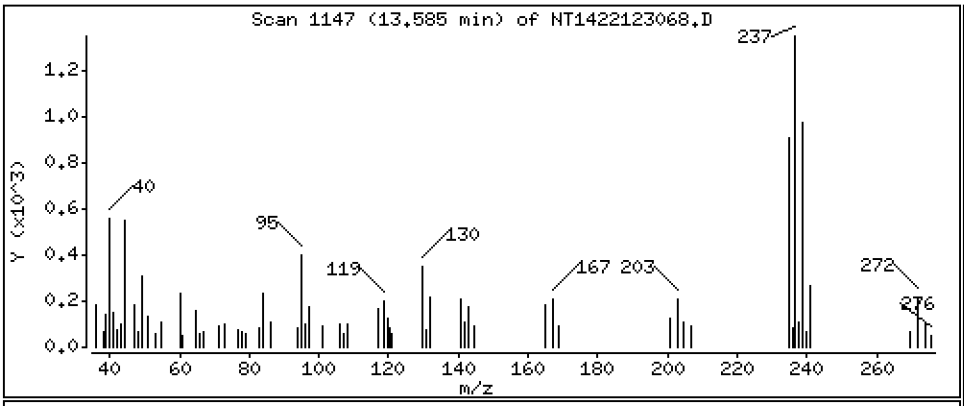
Operator: VTS

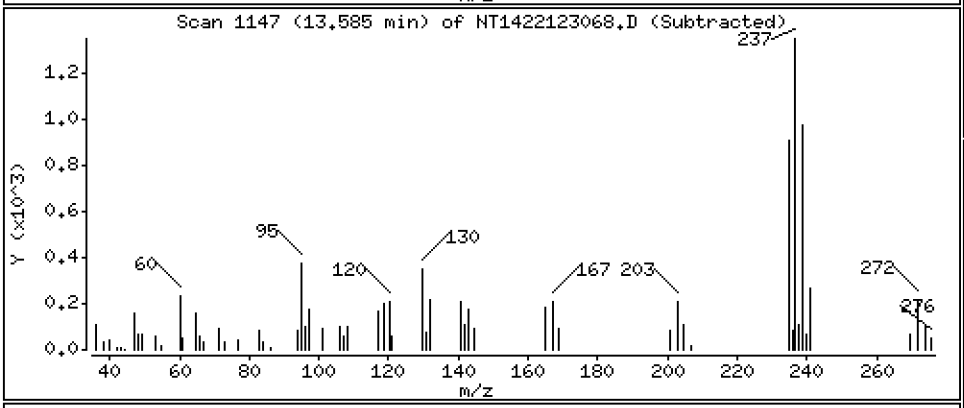
Column phase: ZB-5msi

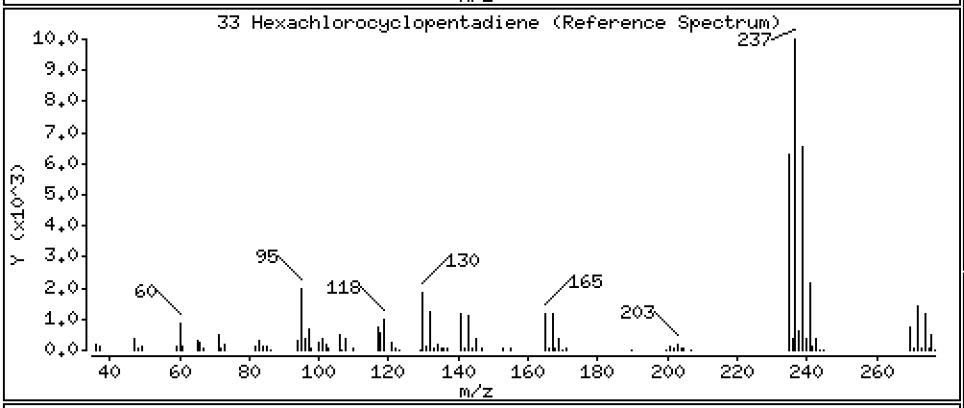
Column diameter: 0.25

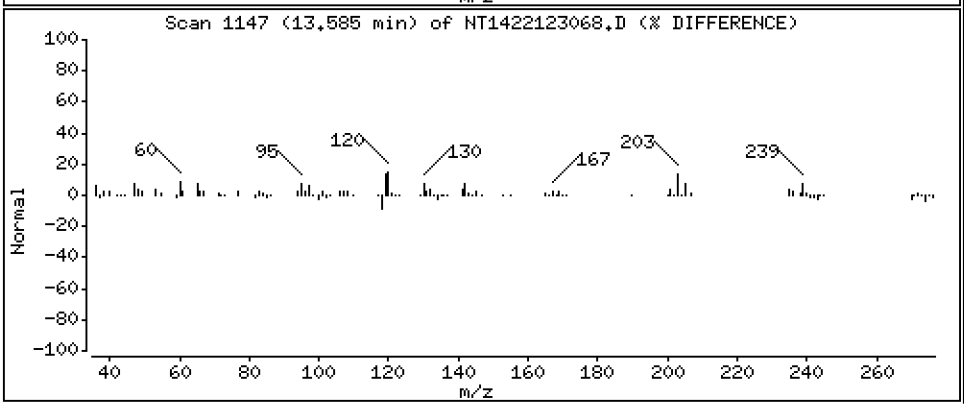
33 Hexachlorocyclopentadiene

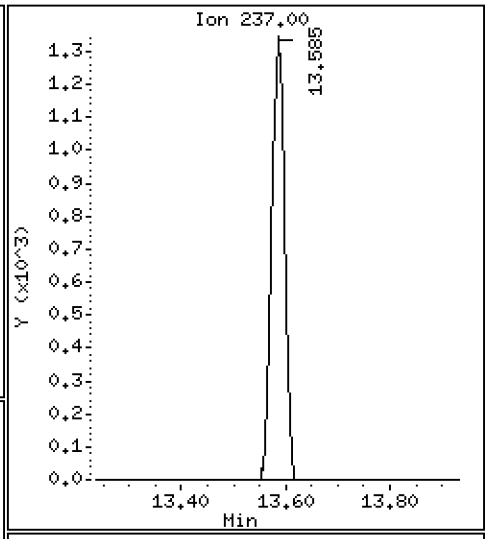
Concentration: 0.1373 ug/mL

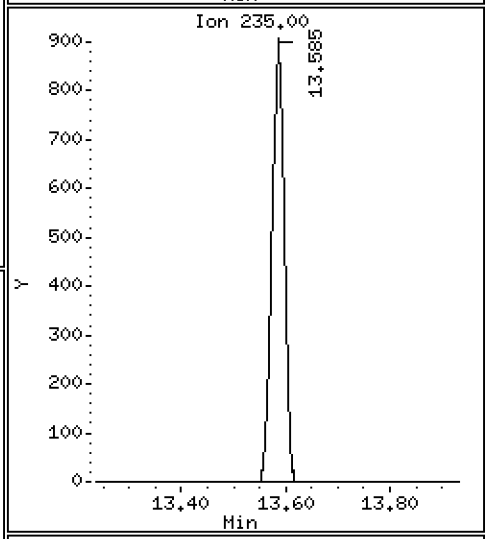


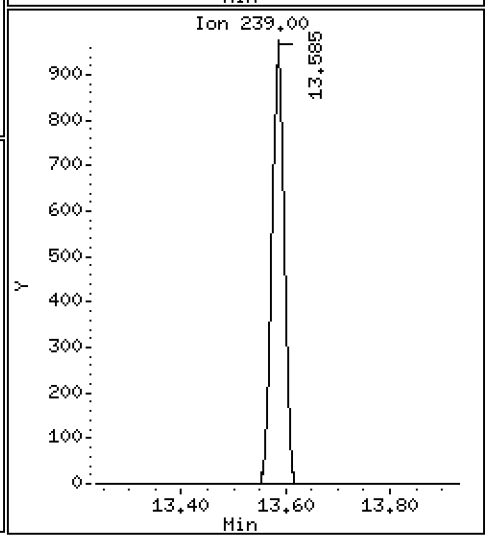












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

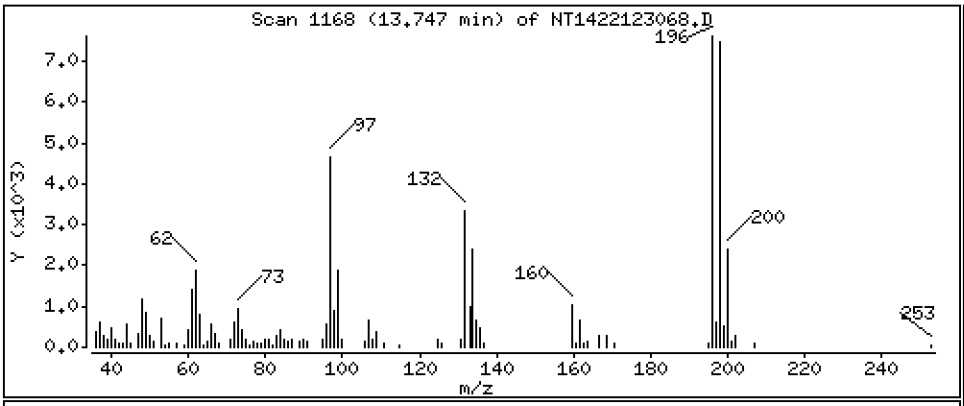
Operator: VTS

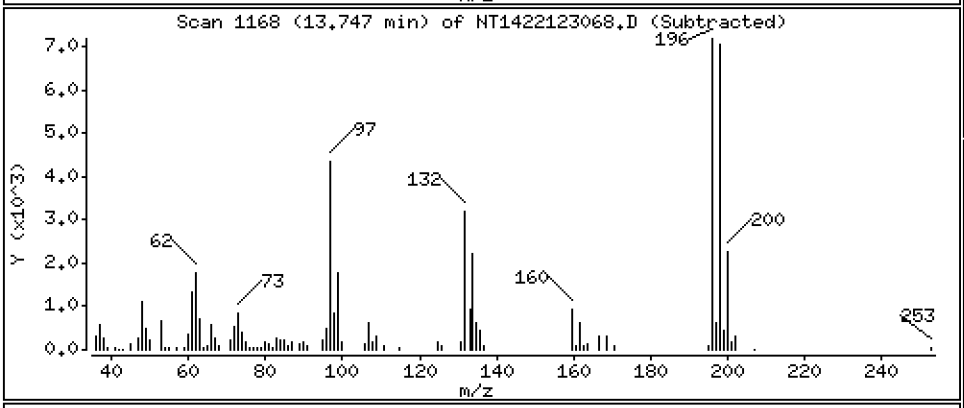
Column phase: ZB-5msi

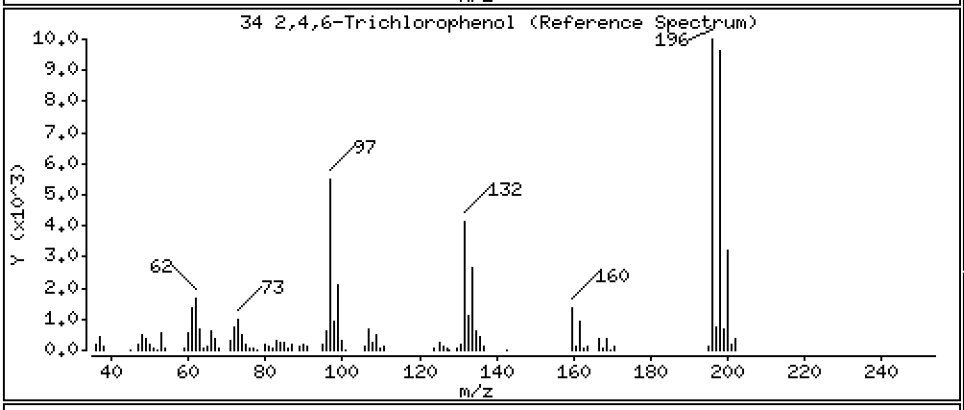
Column diameter: 0.25

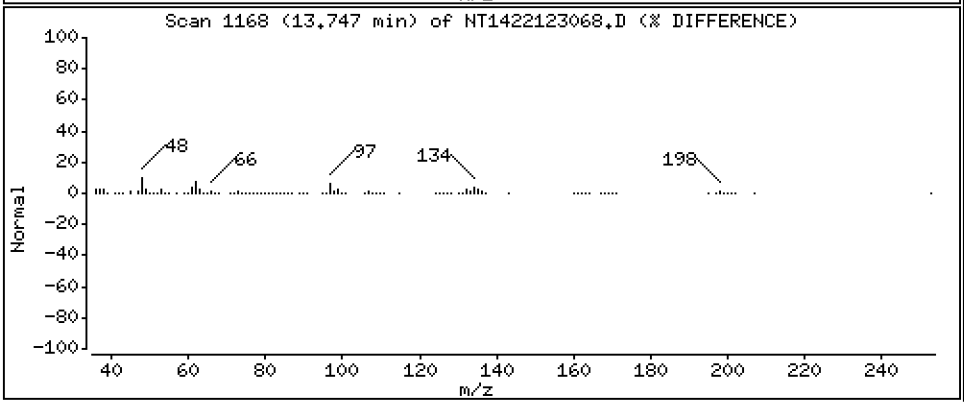
34 2,4,6-Trichlorophenol

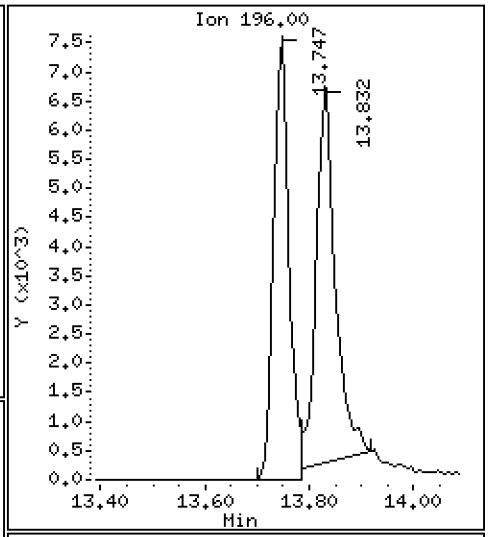
Concentration: 0.8738 ug/mL

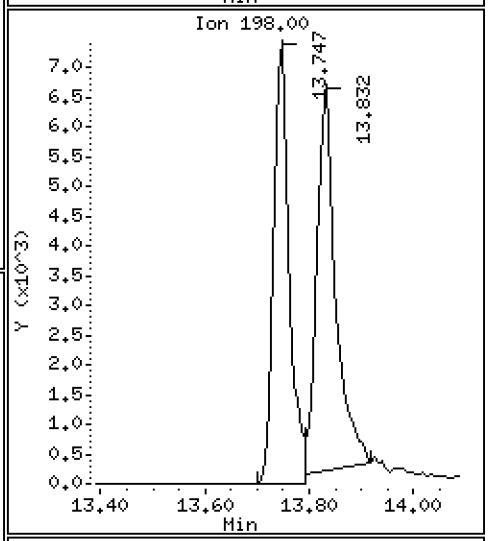


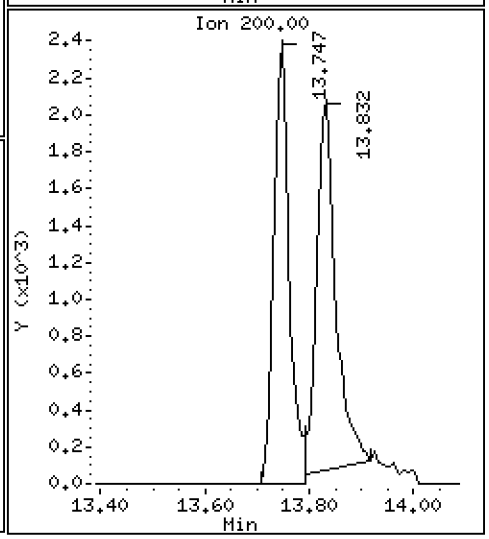












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

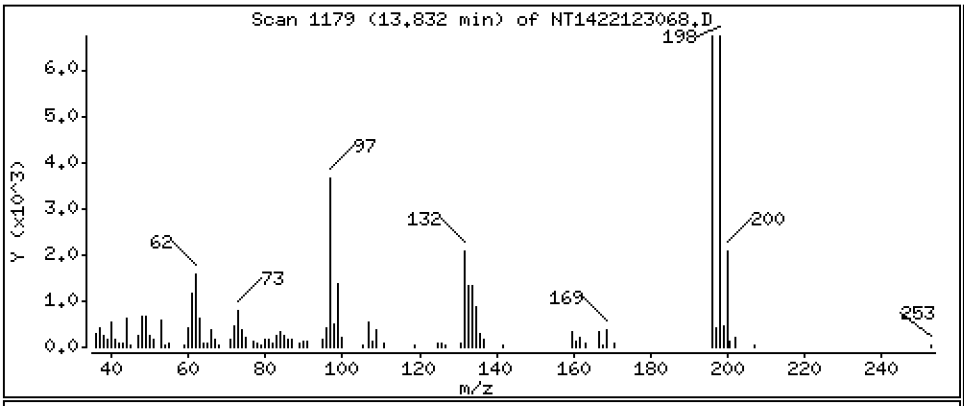
Operator: VTS

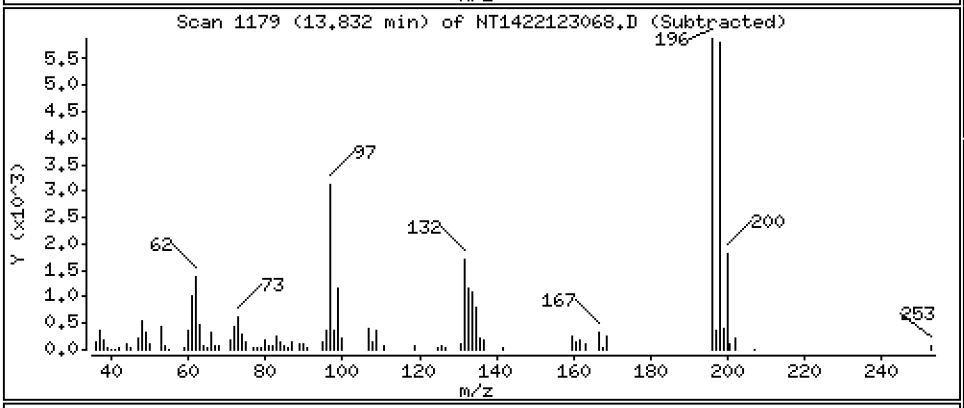
Column phase: ZB-5msi

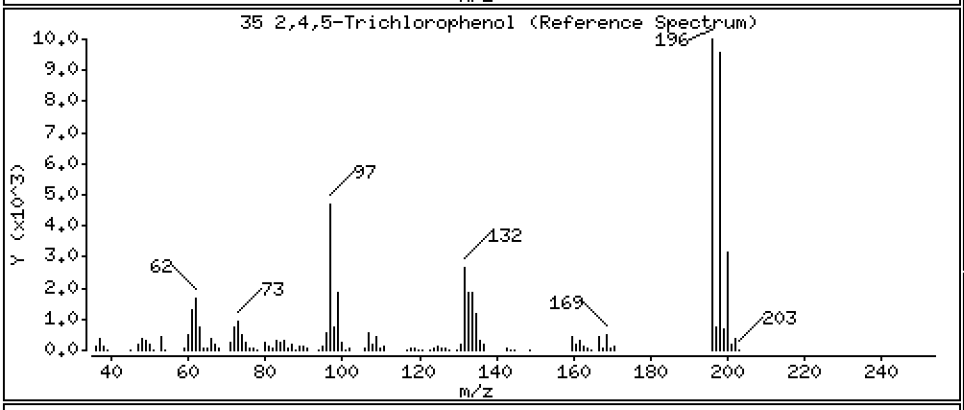
Column diameter: 0.25

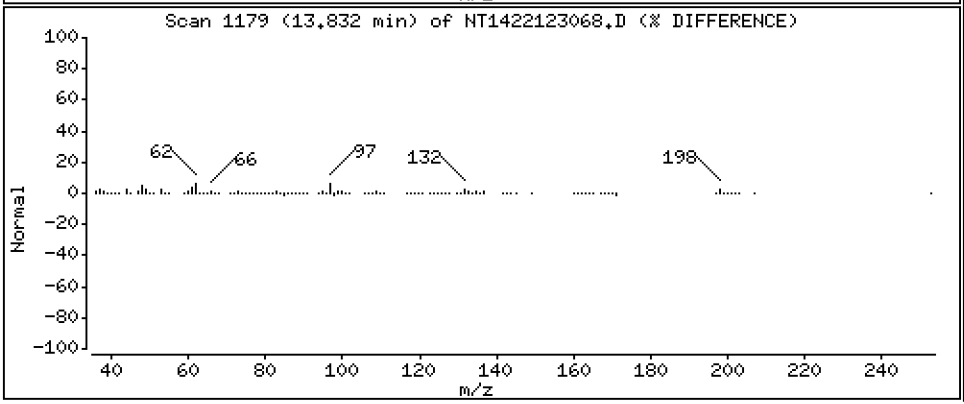
35 2,4,5-Trichlorophenol

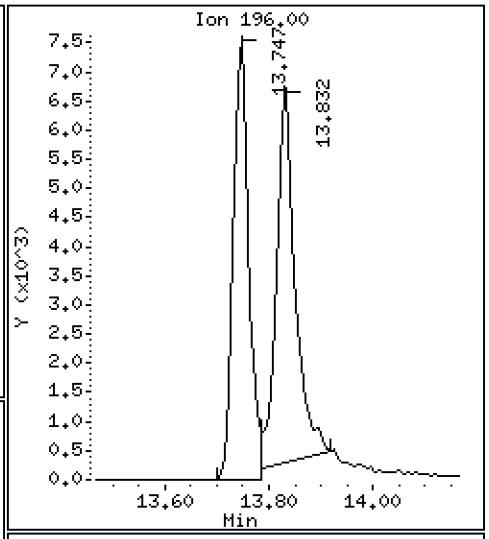
Concentration: 0.8019 ug/mL

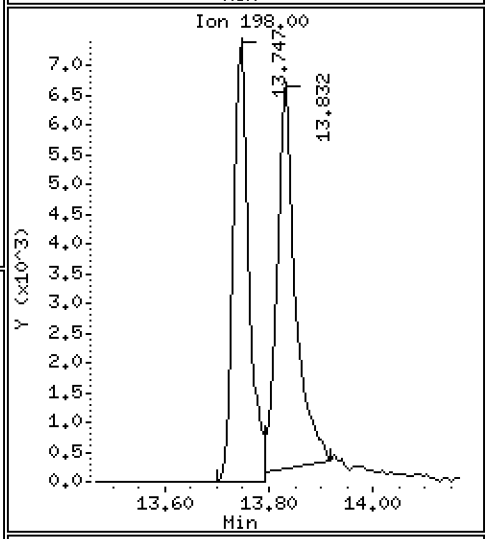


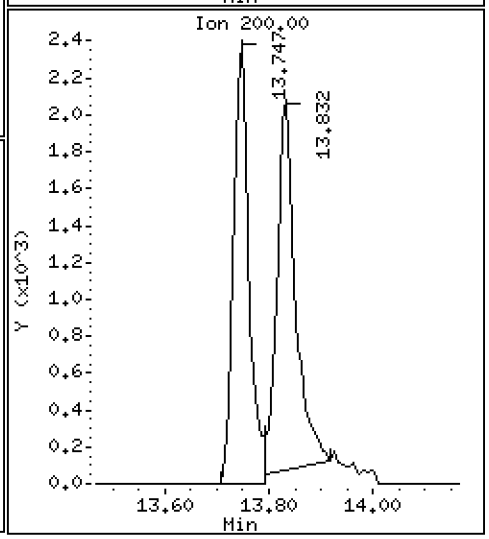












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

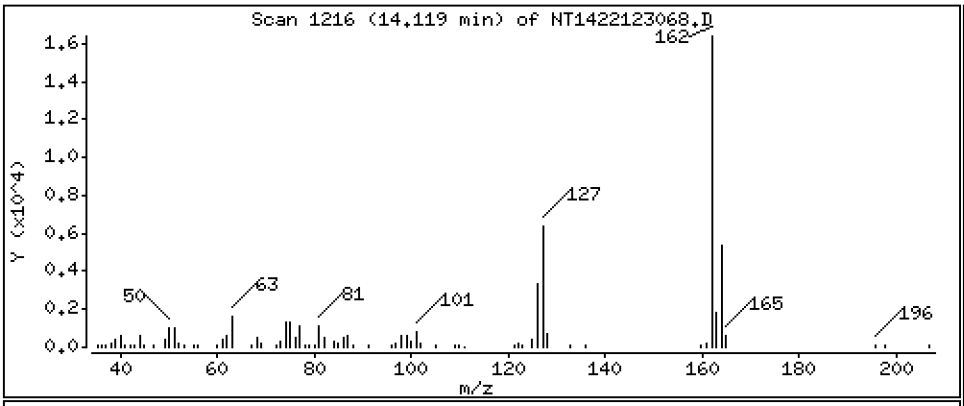
Operator: VTS

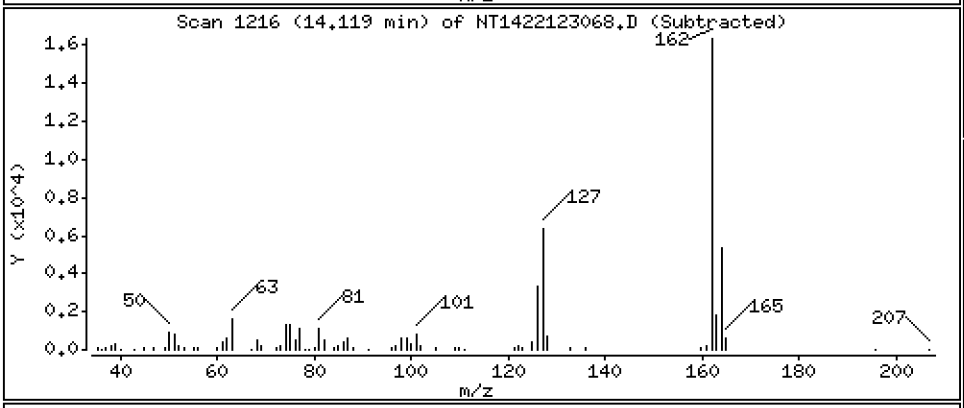
Column phase: ZB-5msi

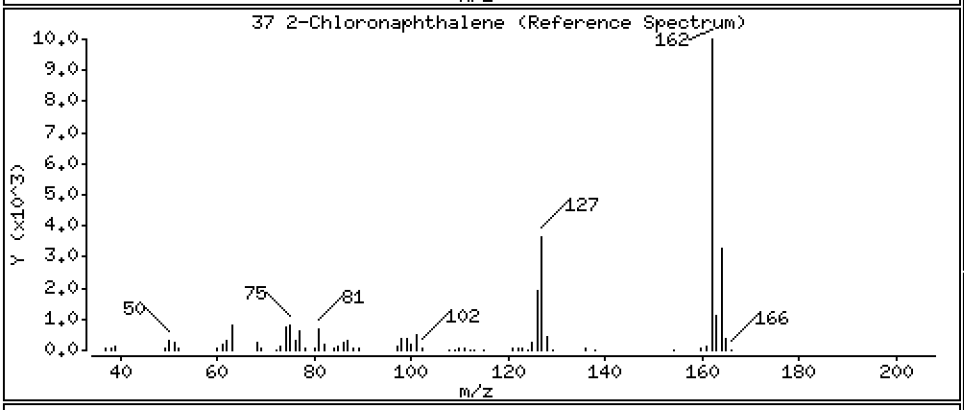
Column diameter: 0.25

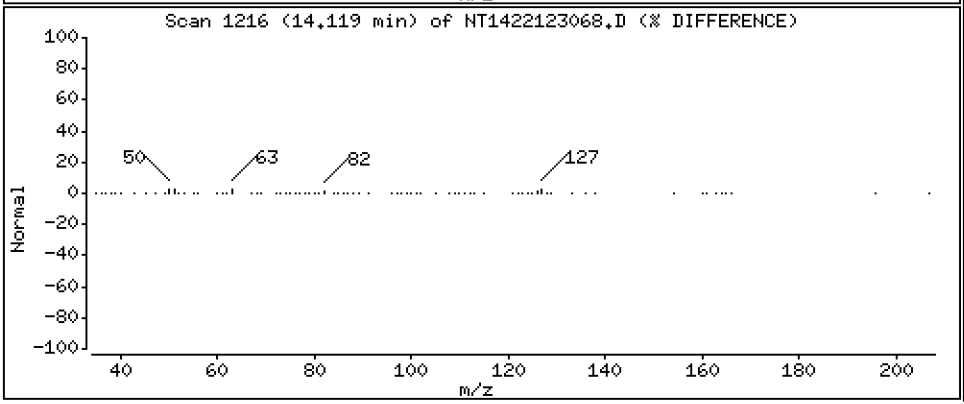
37 2-Chloronaphthalene

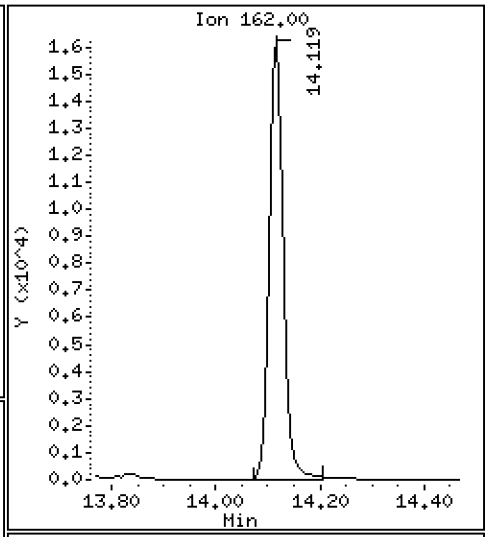
Concentration: 0.4809 ug/mL

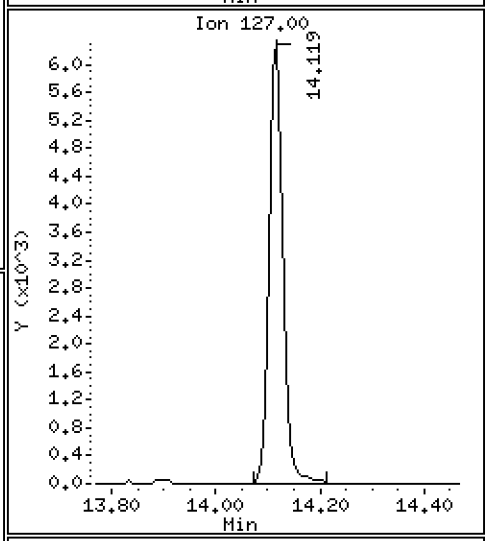


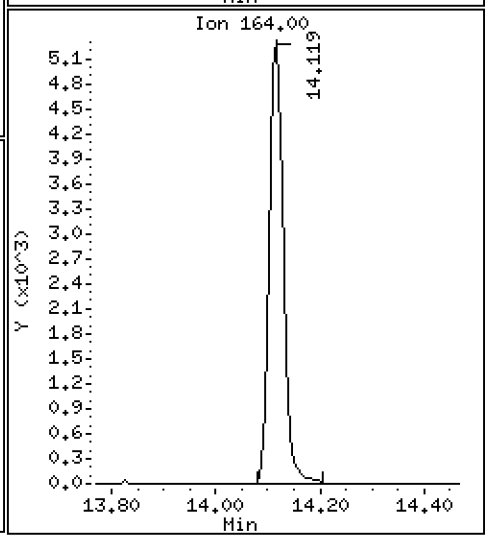












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

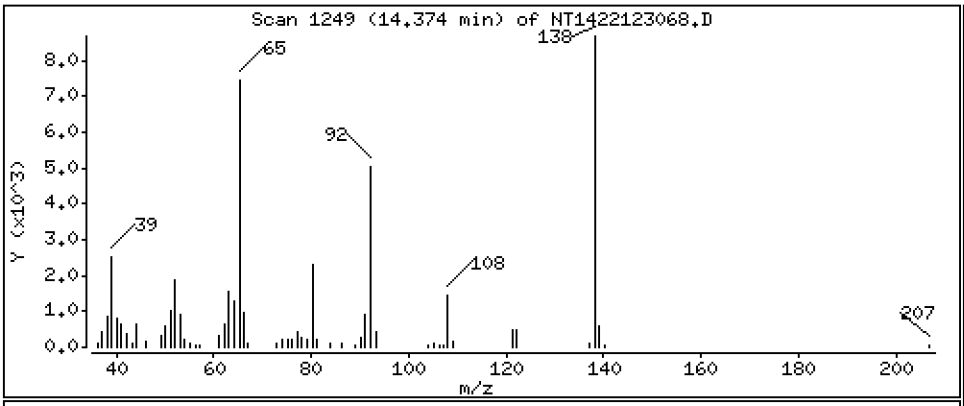
Operator: VTS

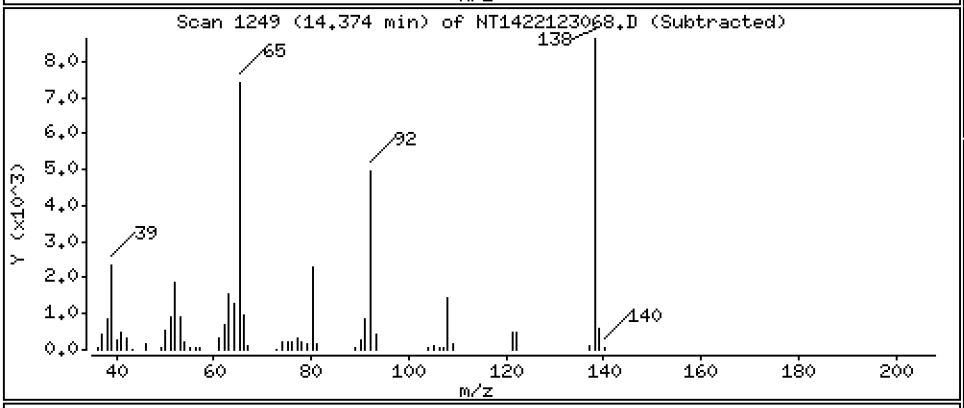
Column phase: ZB-5msi

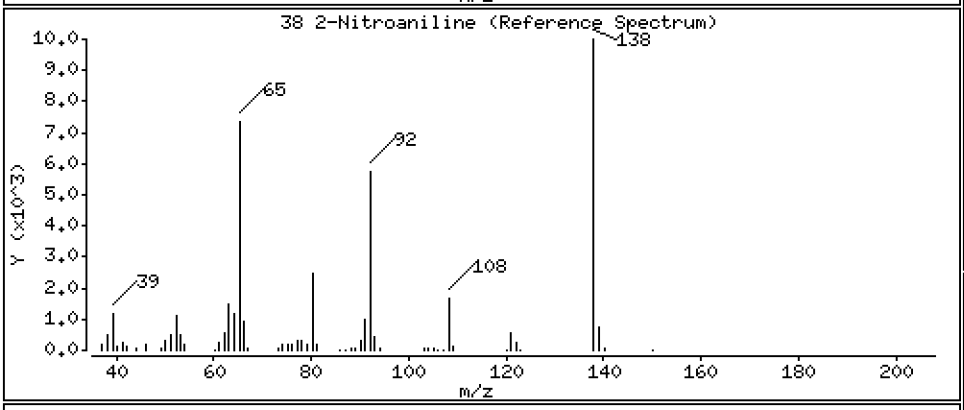
Column diameter: 0.25

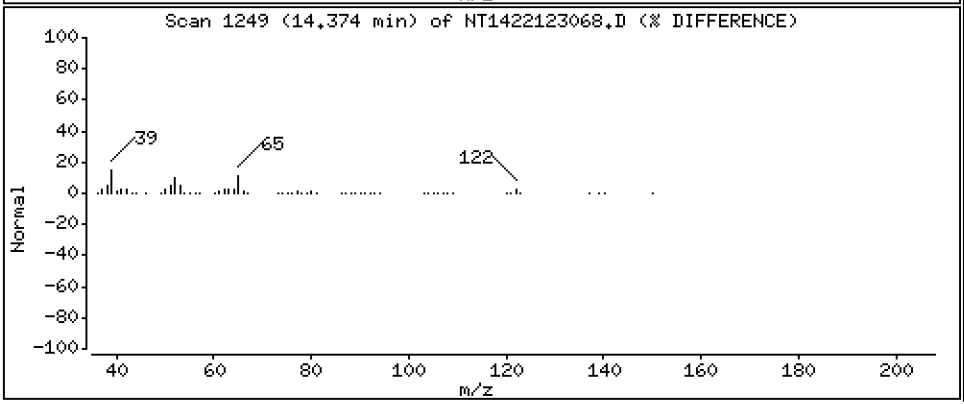
38 2-Nitroaniline

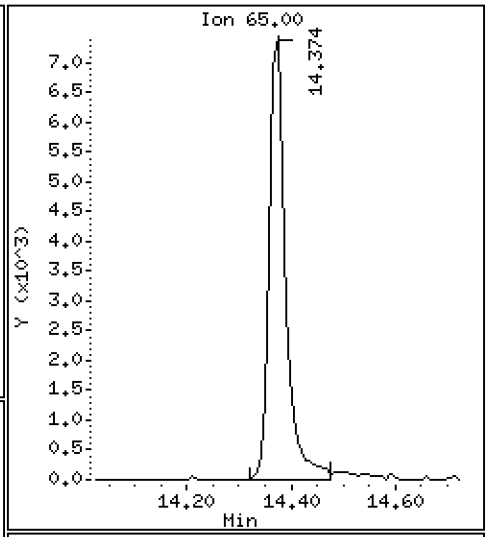
Concentration: 0.9872 ug/mL

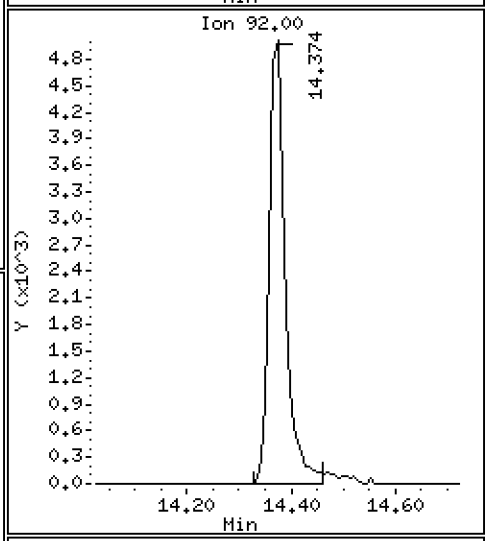


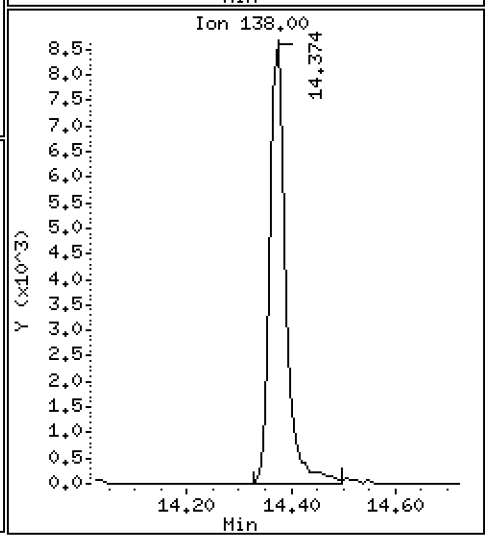












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

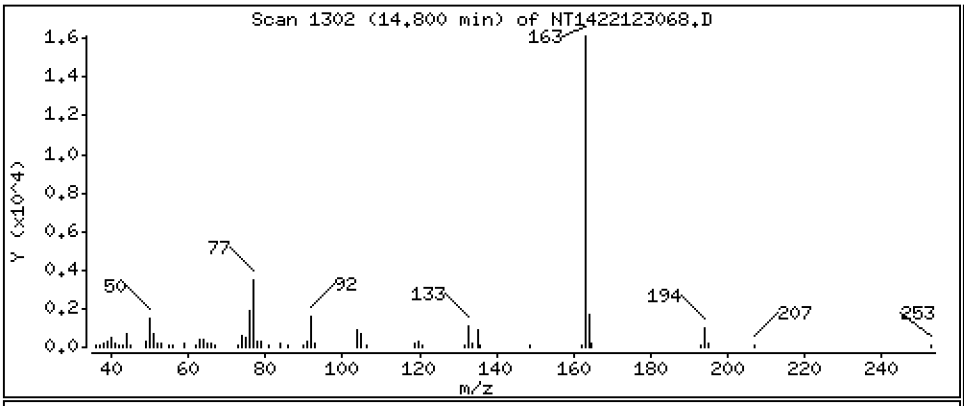
Operator: VTS

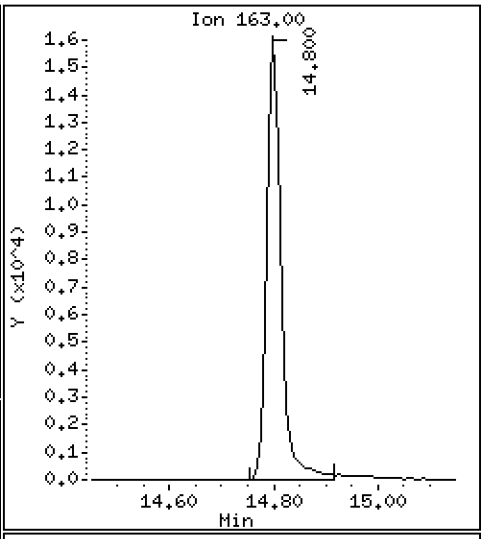
Column phase: ZB-5msi

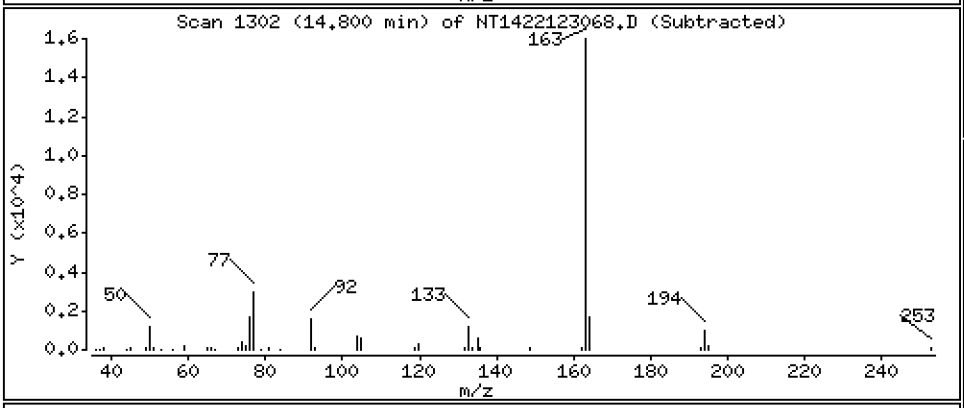
Column diameter: 0.25

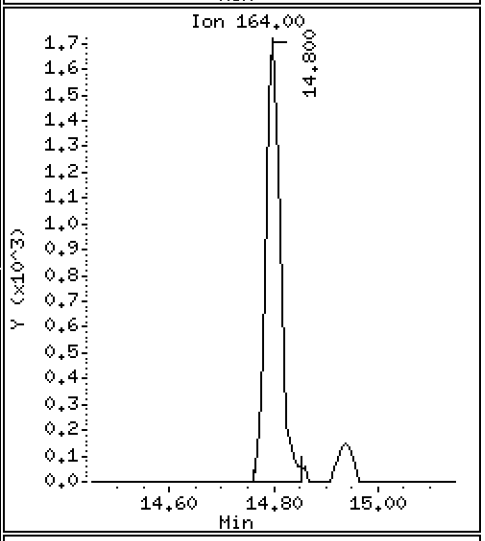
39 Dimethylphthalate

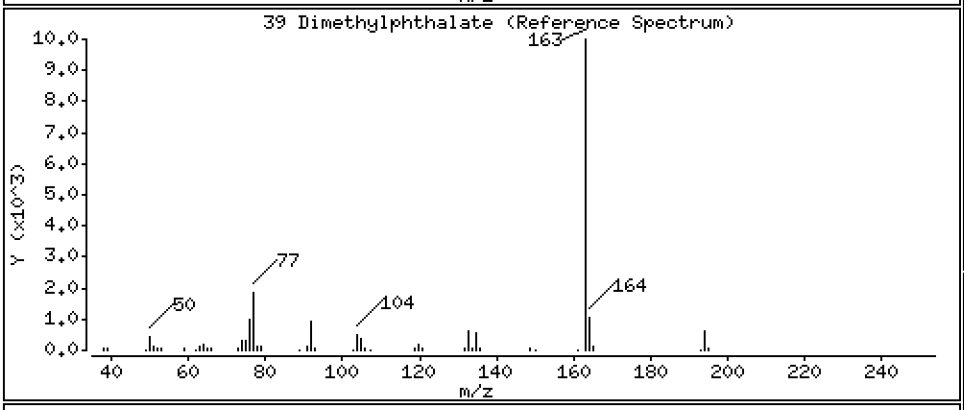
Concentration: 0.4956 ug/mL

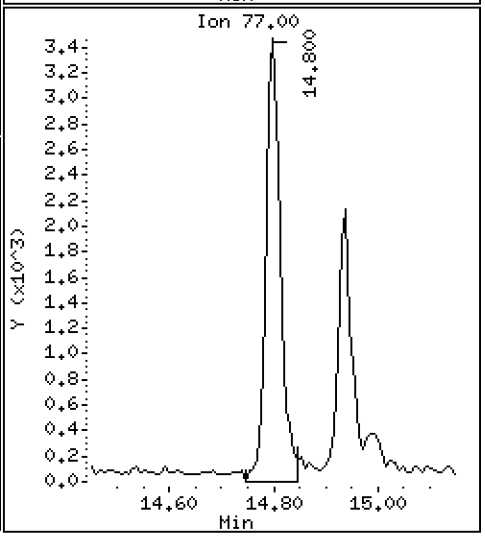


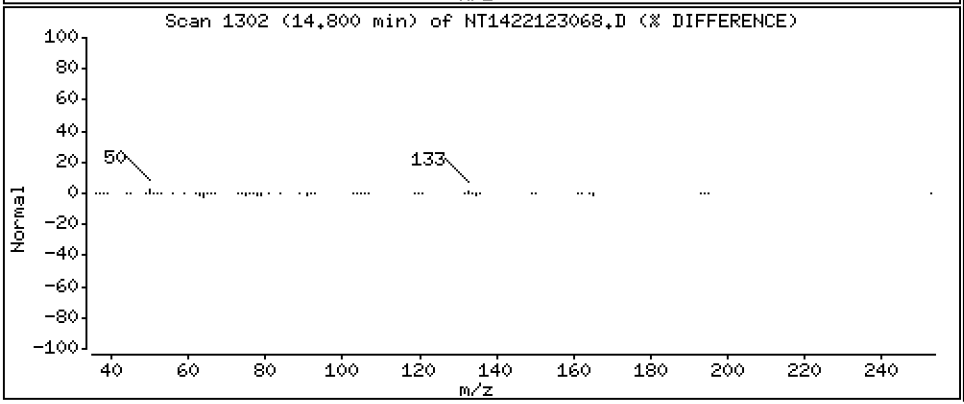












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

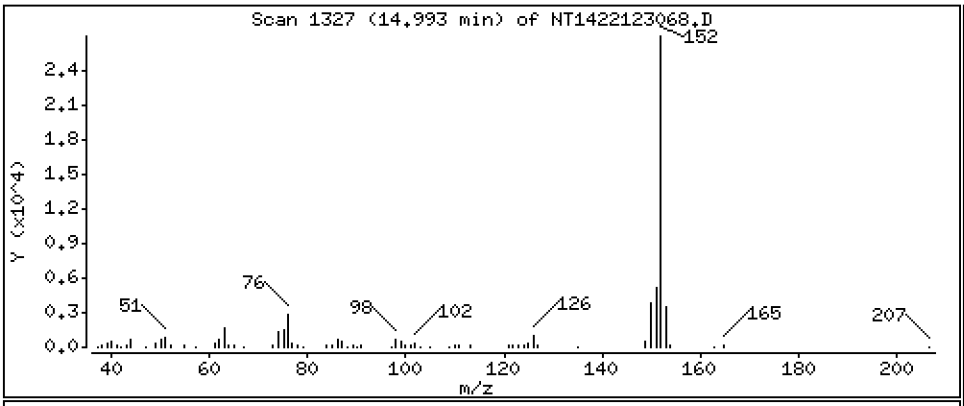
Operator: VTS

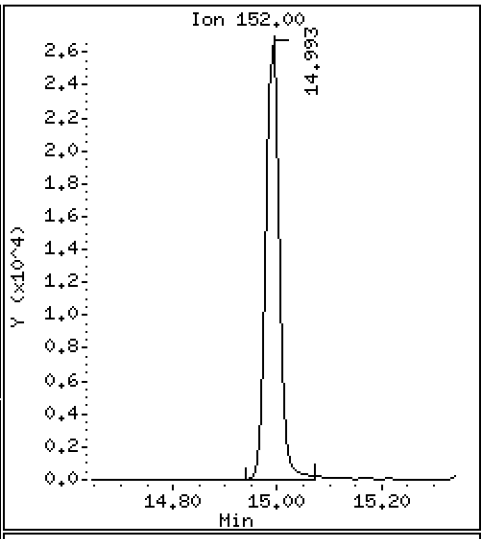
Column phase: ZB-5msi

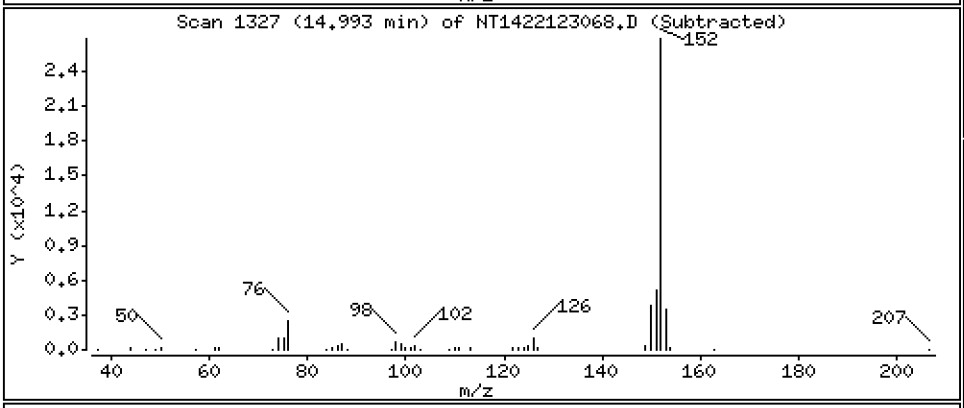
Column diameter: 0.25

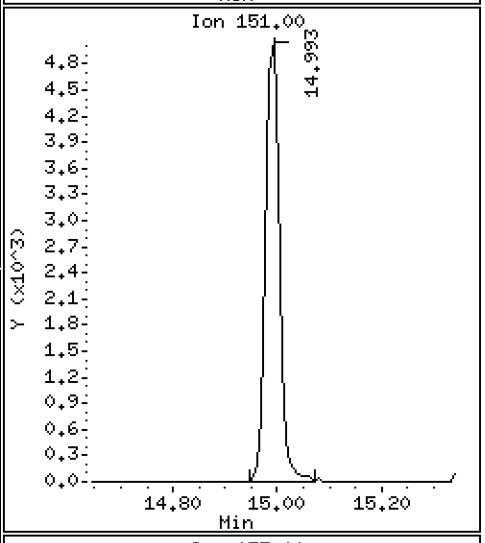
40 Acenaphthylene

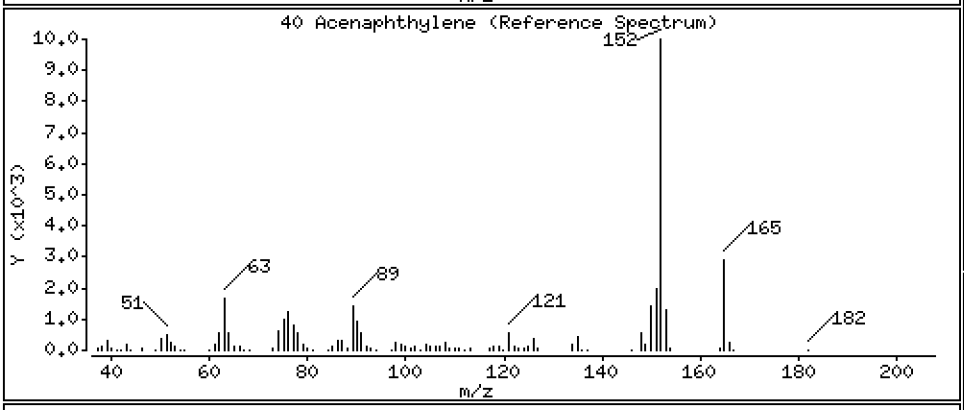
Concentration: 0.4979 ug/mL

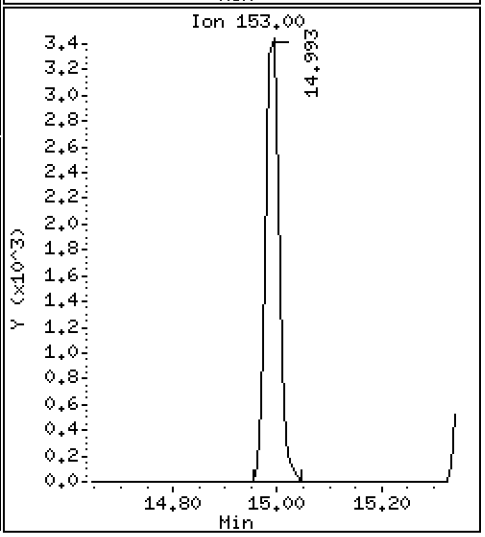


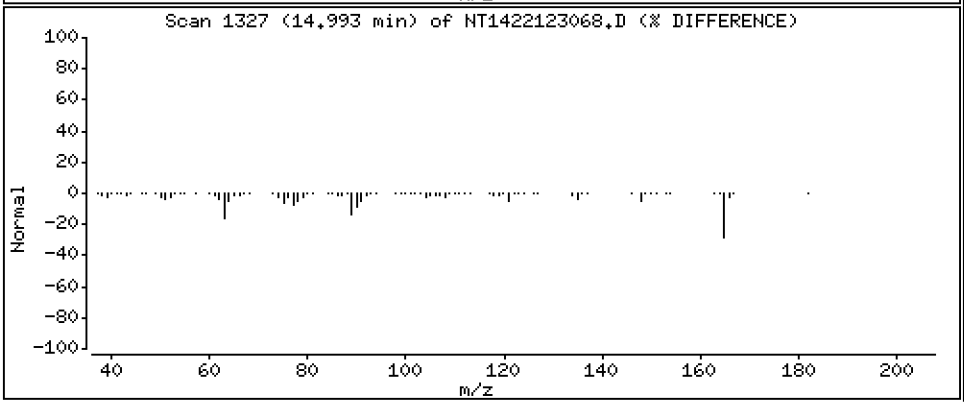












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

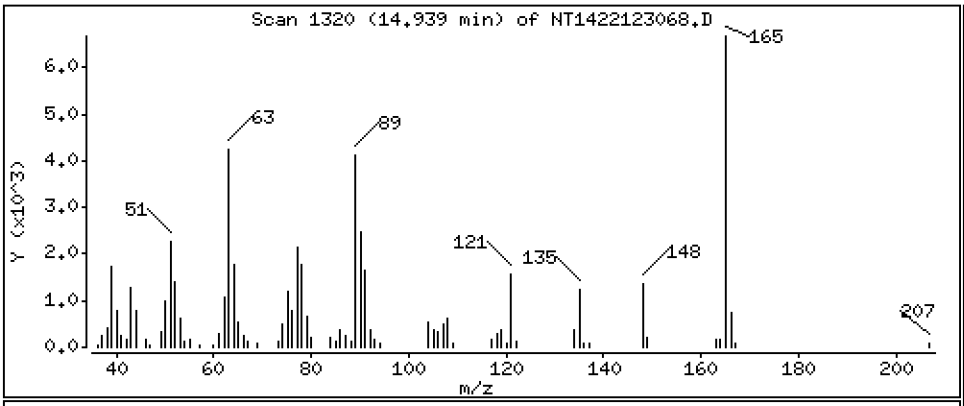
Operator: VTS

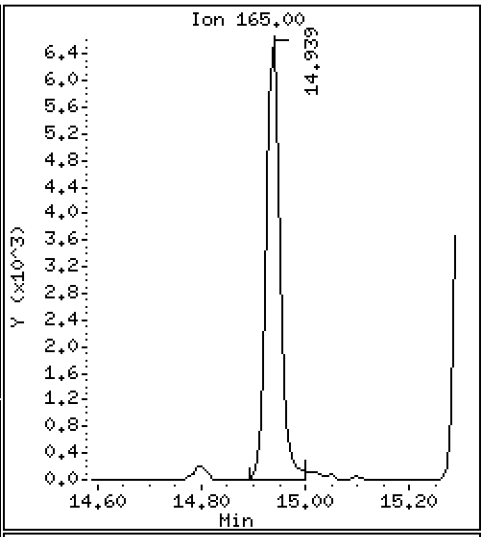
Column phase: ZB-5msi

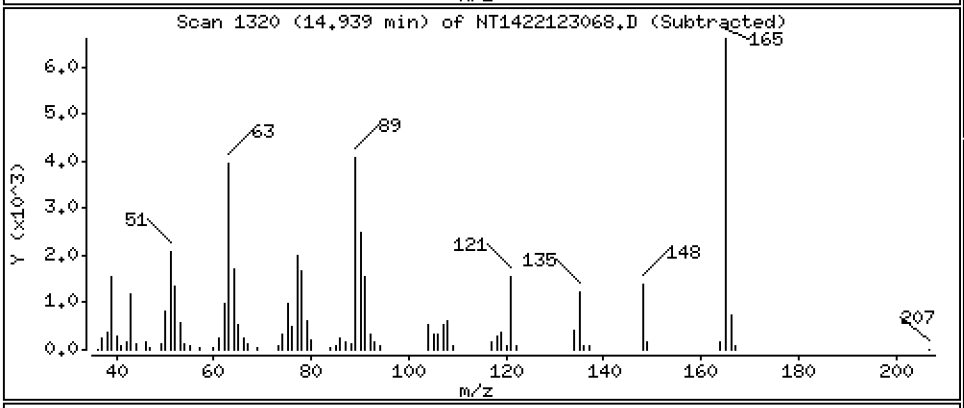
Column diameter: 0.25

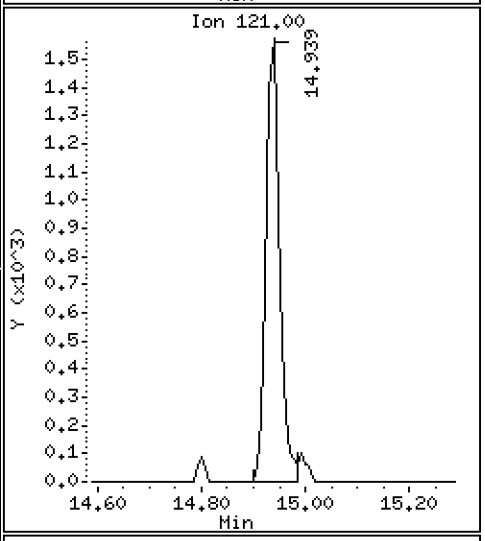
41 2,6-Dinitrotoluene

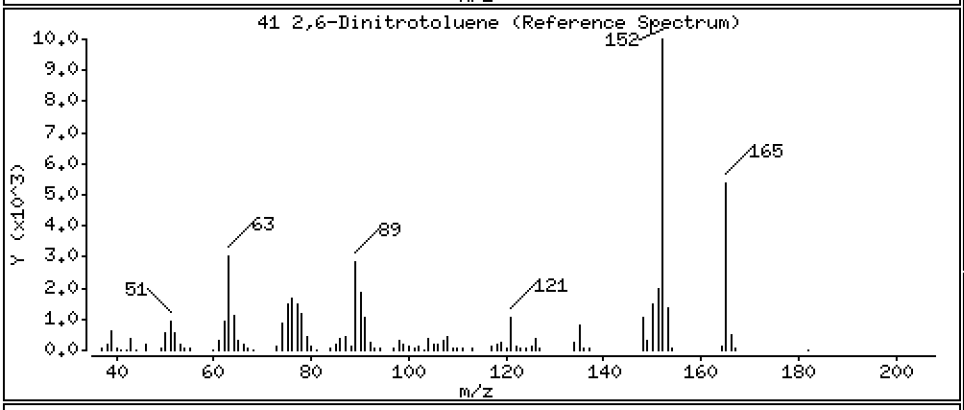
Concentration: 0.8726 ug/mL

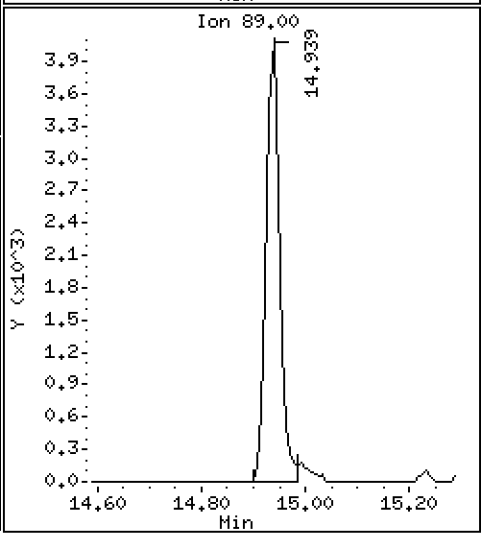


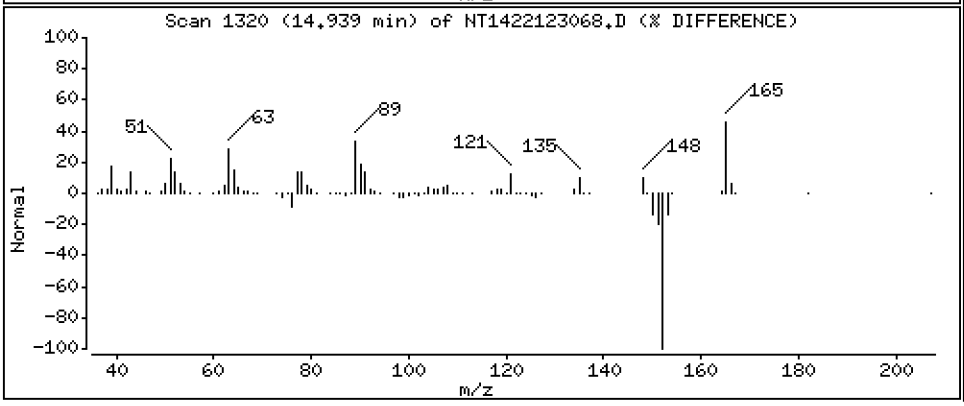












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

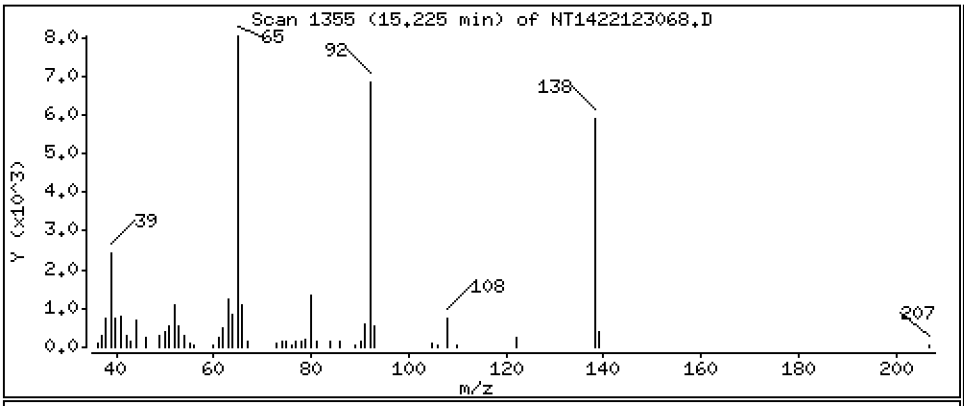
Operator: VTS

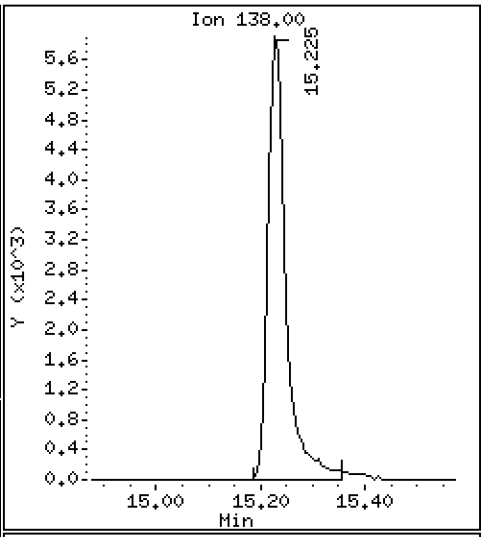
Column phase: ZB-5msi

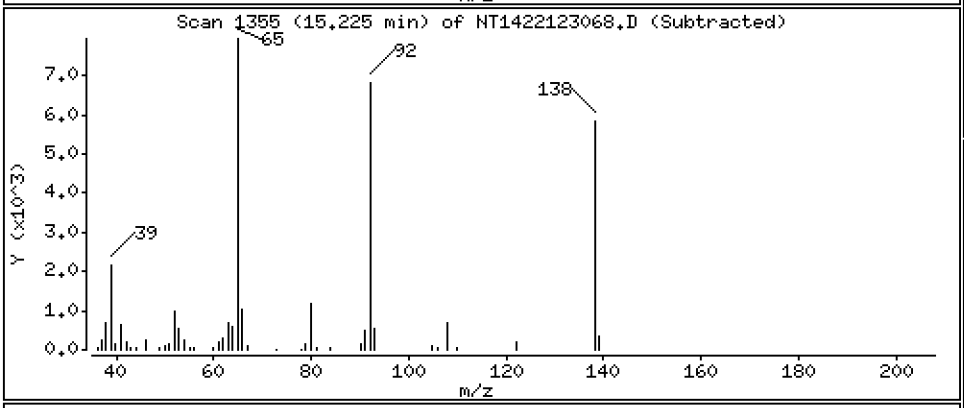
Column diameter: 0.25

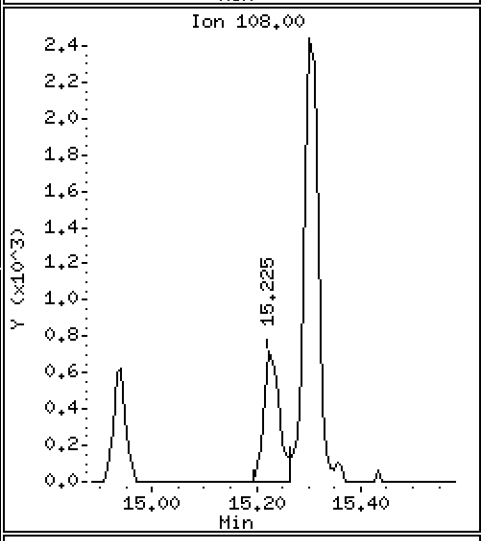
43 3-Nitroaniline

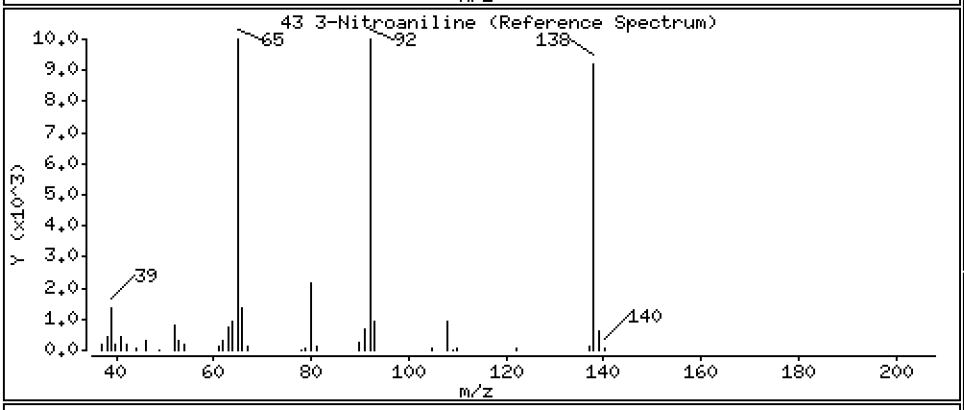
Concentration: 0.8487 ug/mL

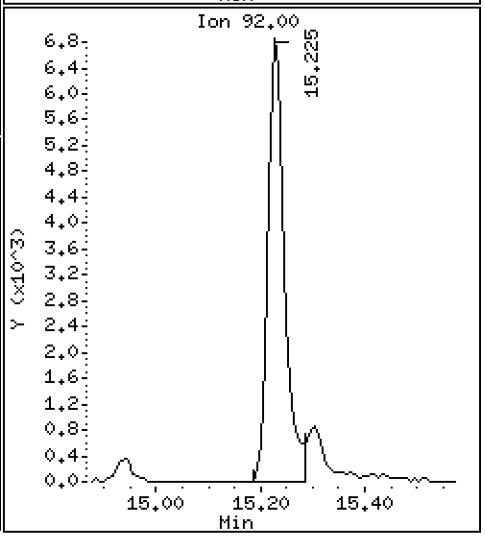


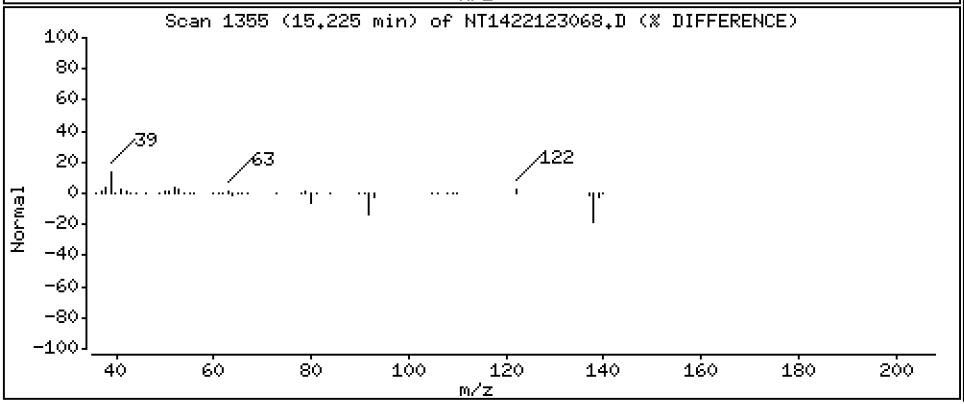












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

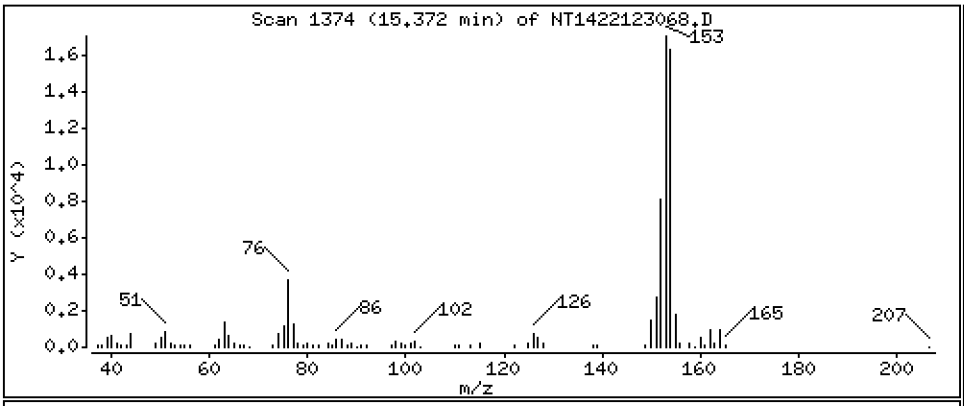
Operator: VTS

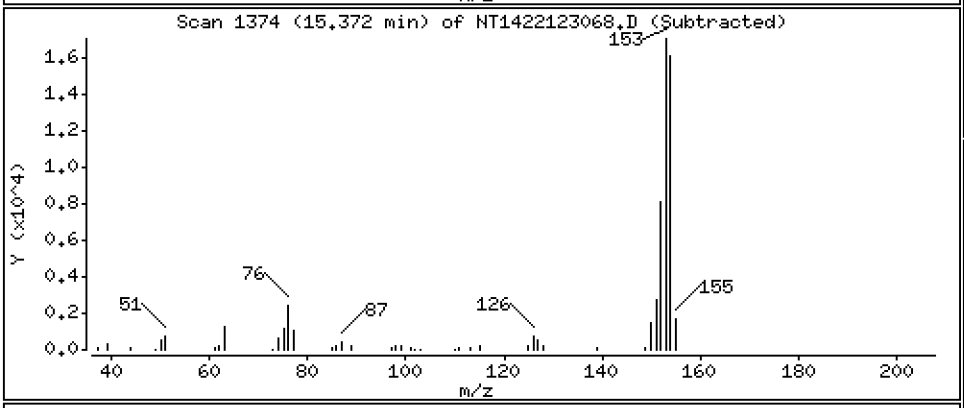
Column phase: ZB-5msi

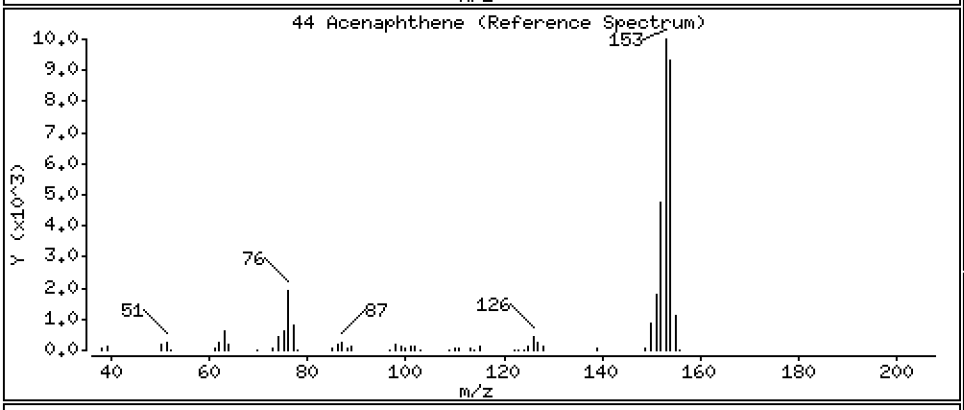
Column diameter: 0.25

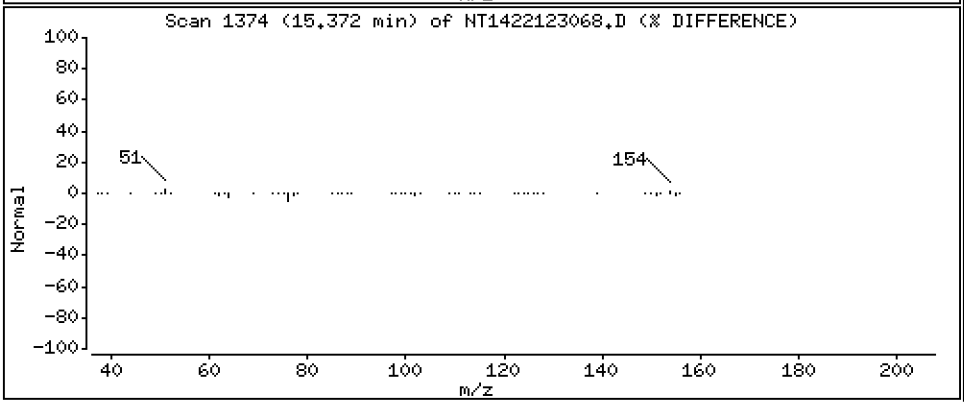
44 Acenaphthene

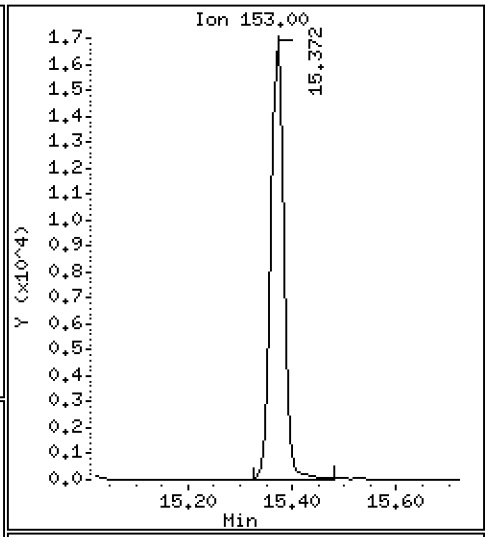
Concentration: 0.4955 ug/mL

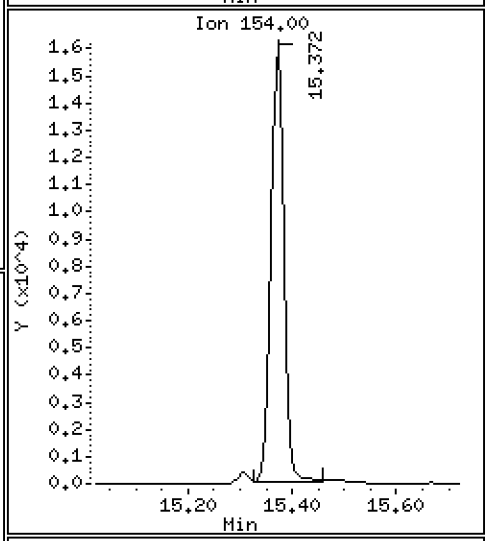


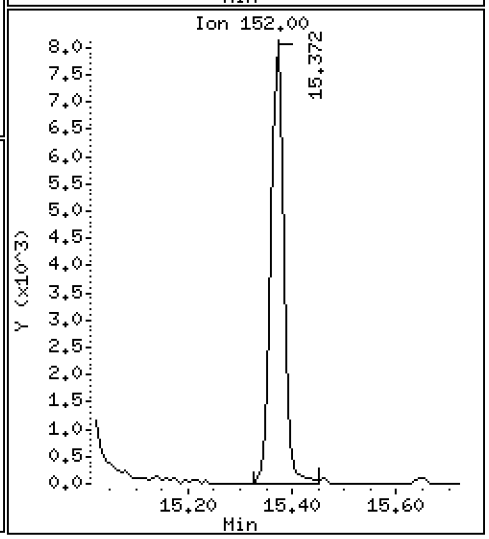












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

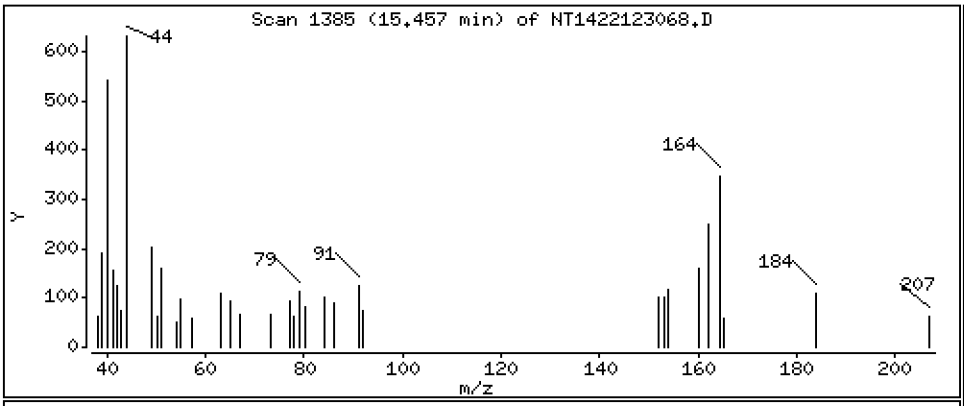
Operator: VTS

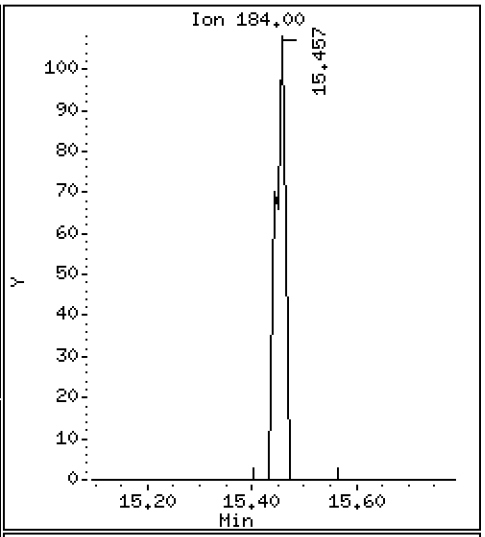
Column phase: ZB-5msi

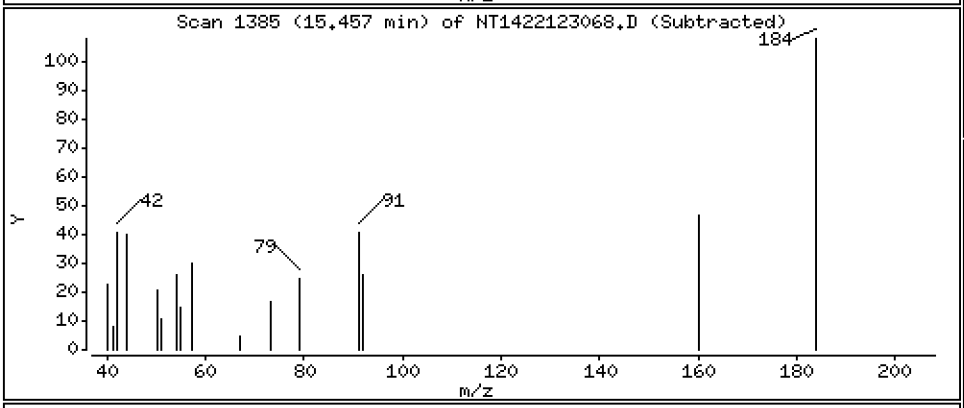
Column diameter: 0.25

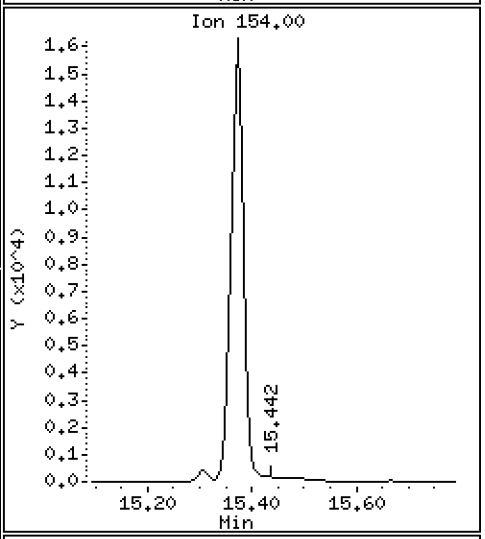
45 2,4-Dinitrophenol

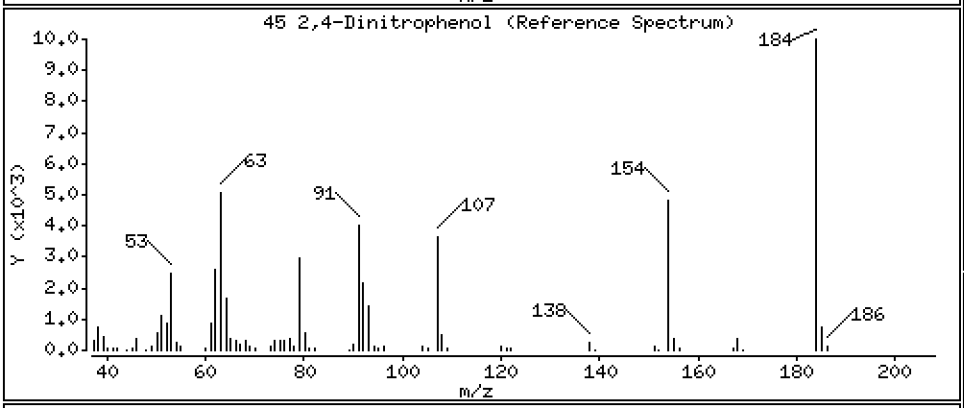
Concentration: 0.01232 ug/mL

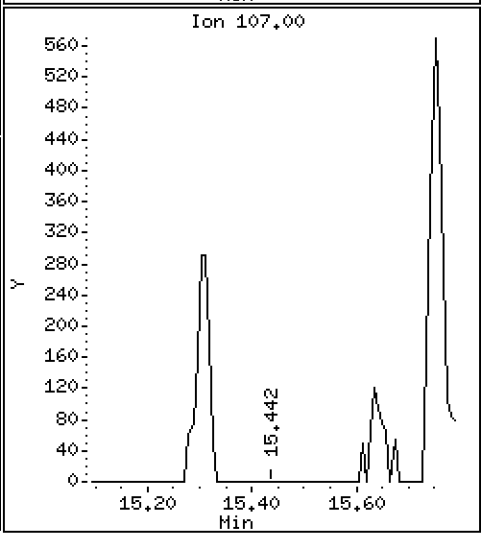


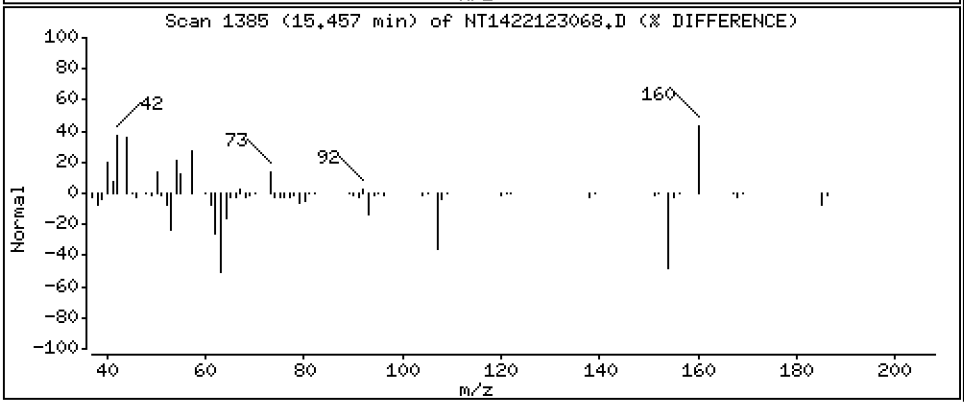












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

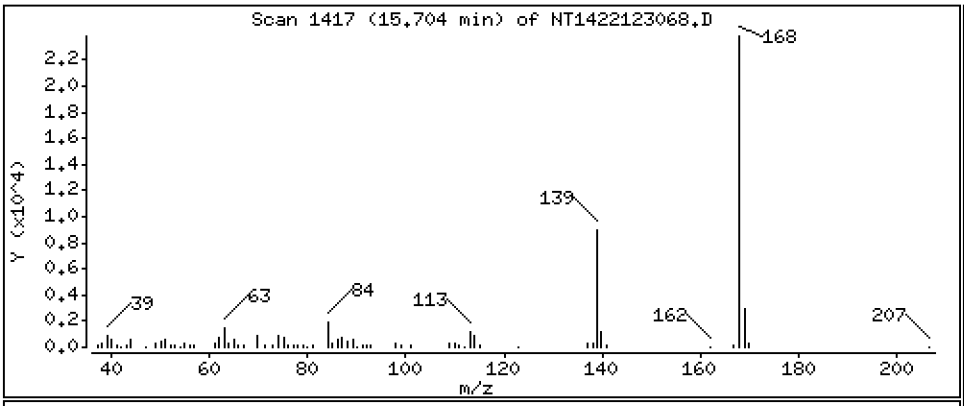
Operator: VTS

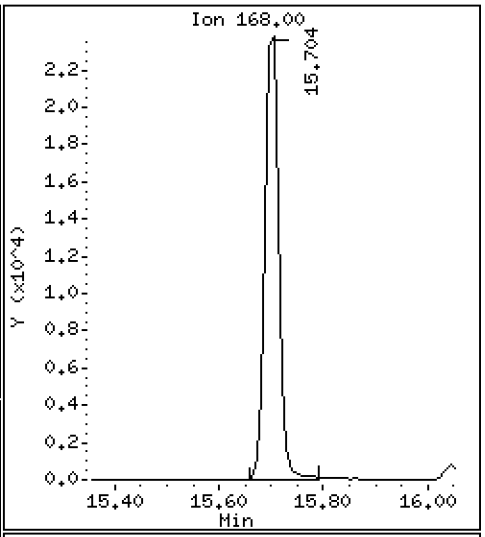
Column phase: ZB-5msi

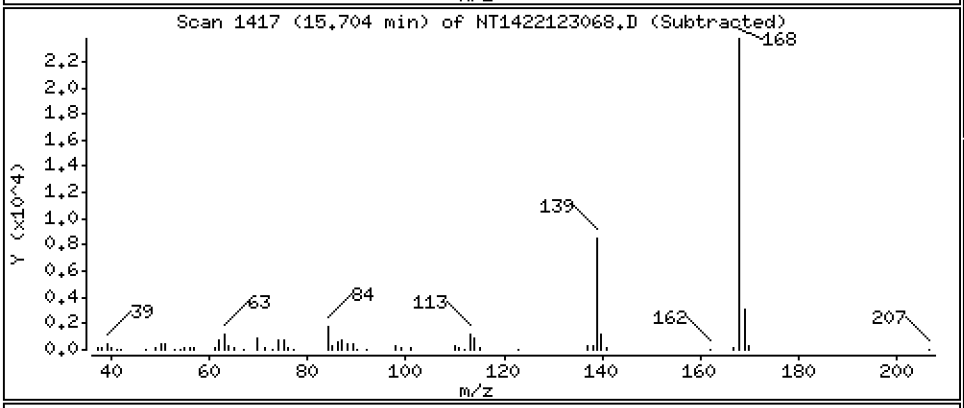
Column diameter: 0.25

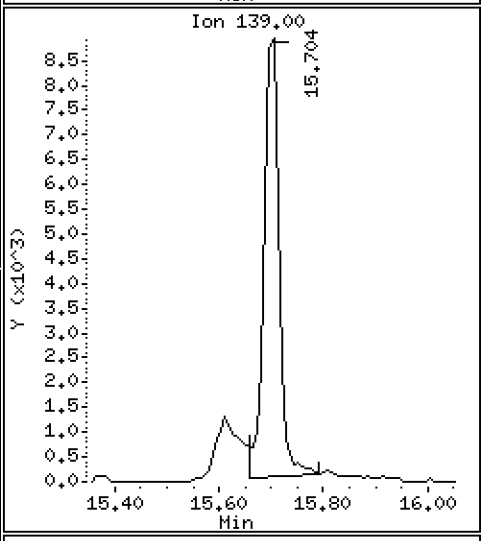
46 Dibenzofuran

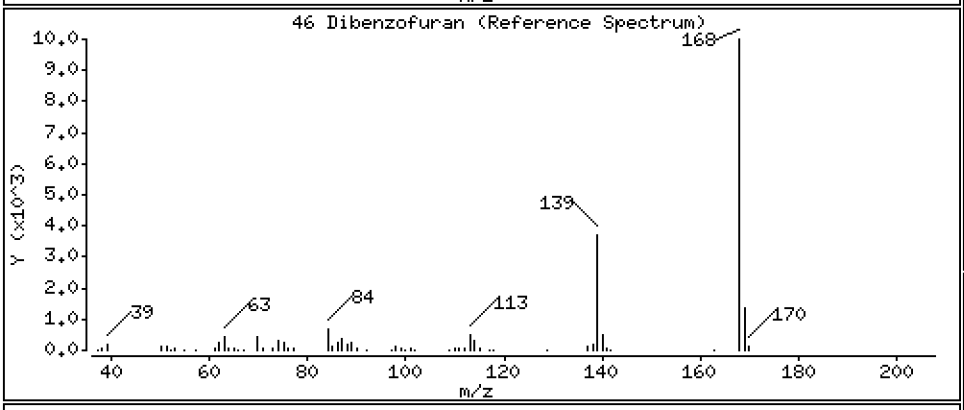
Concentration: 0.4928 ug/mL

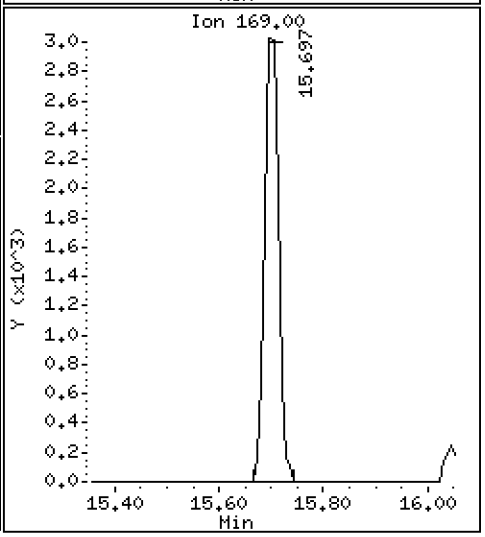


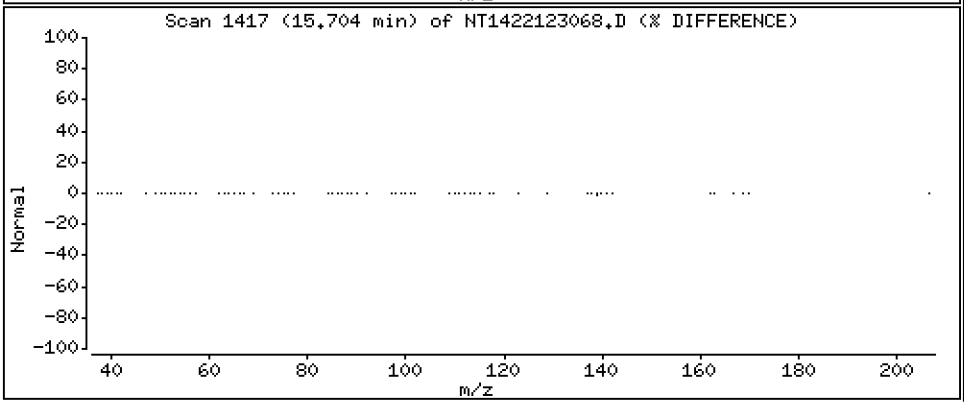












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

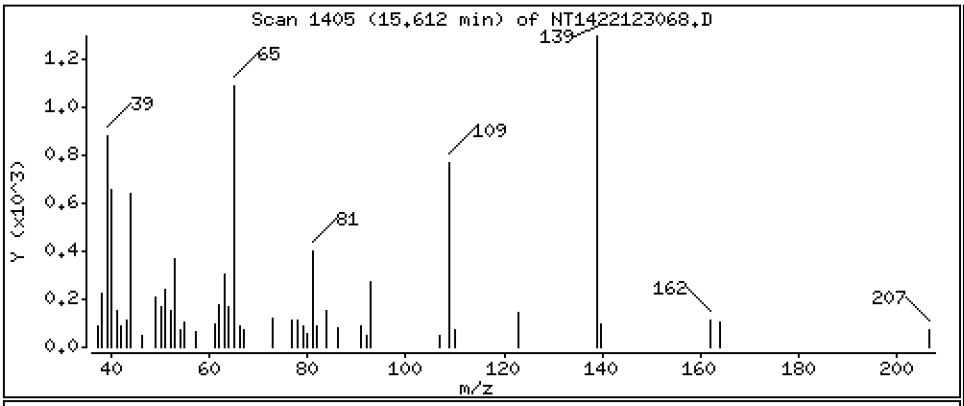
Operator: VTS

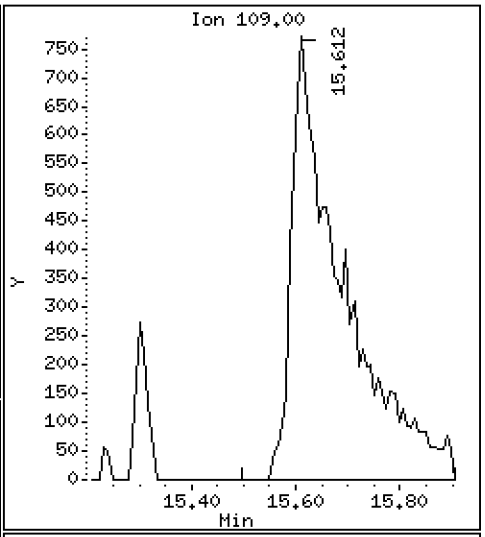
Column phase: ZB-5msi

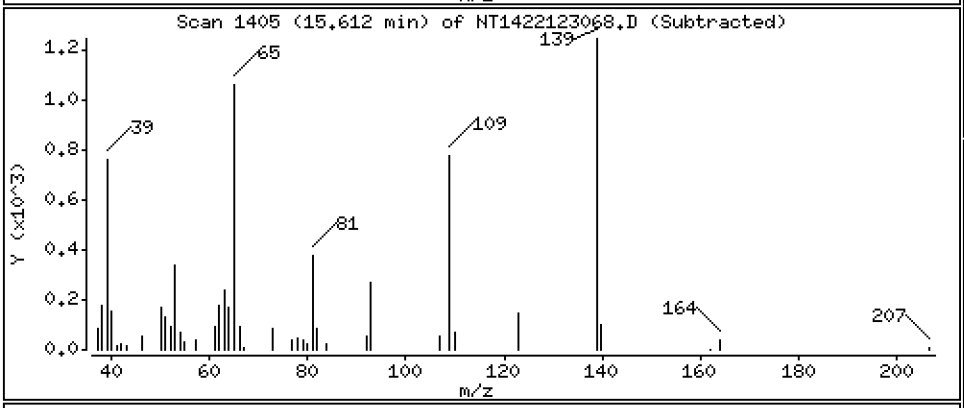
Column diameter: 0.25

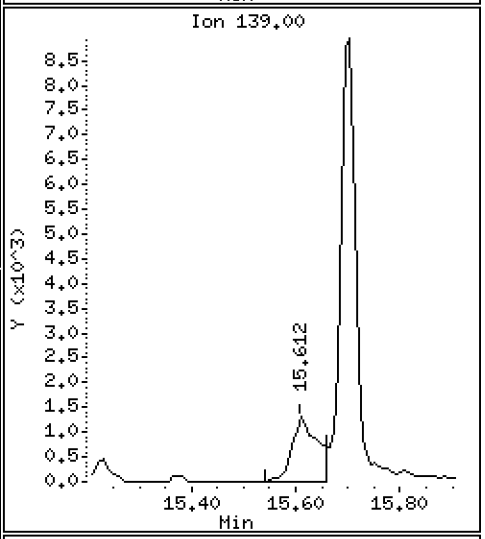
47 4-Nitrophenol

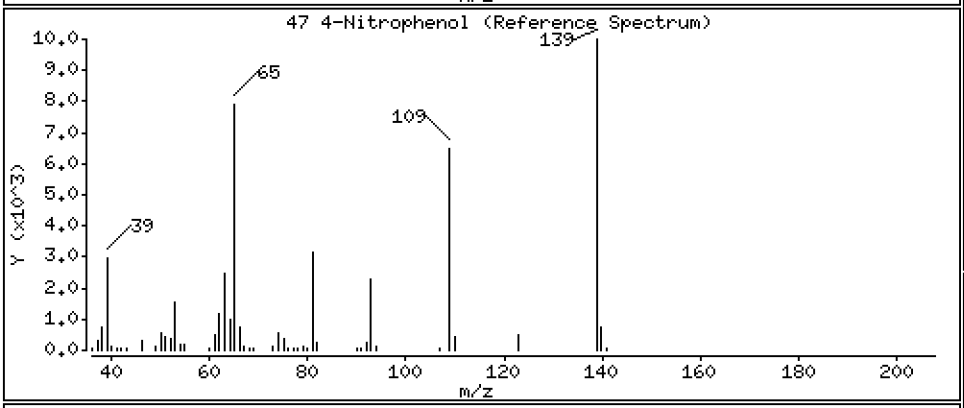
Concentration: 0.6719 ug/mL

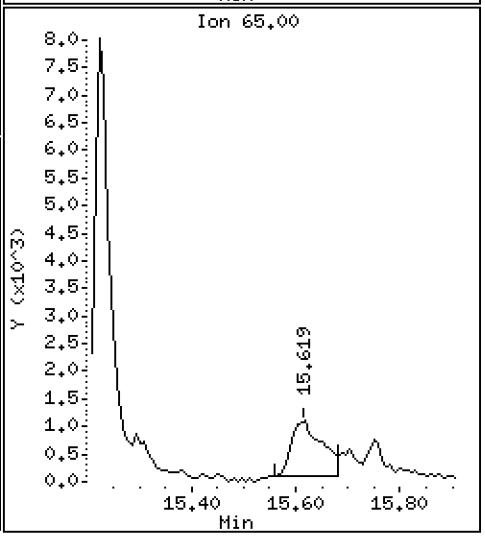


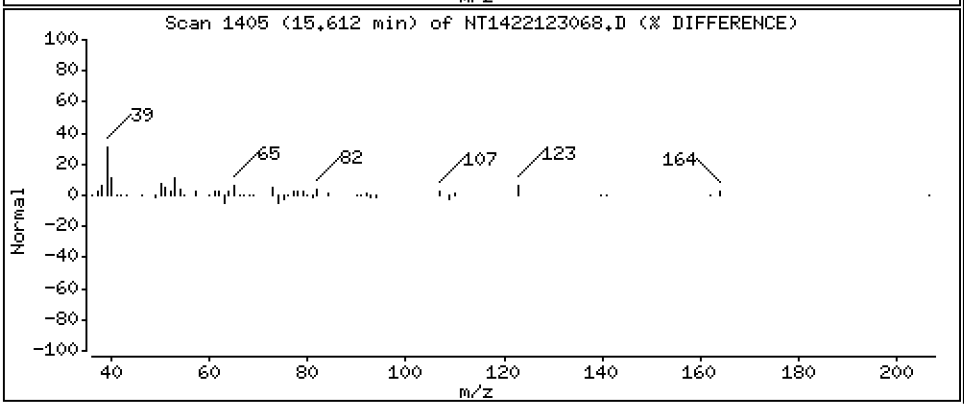












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

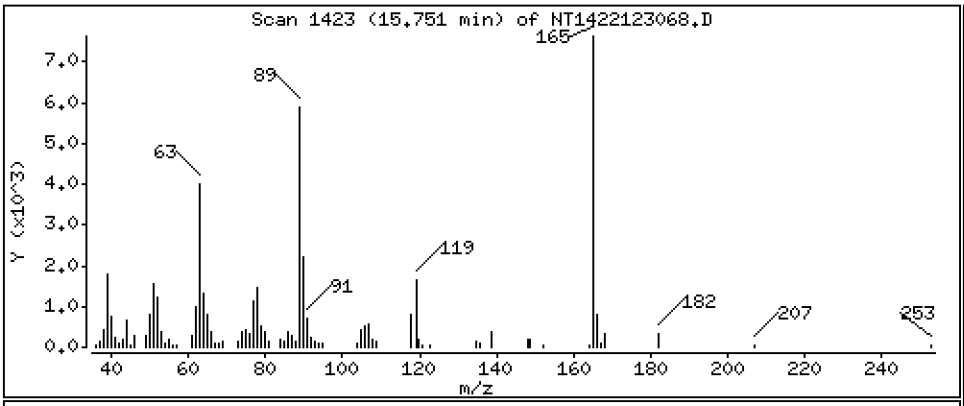
Operator: VTS

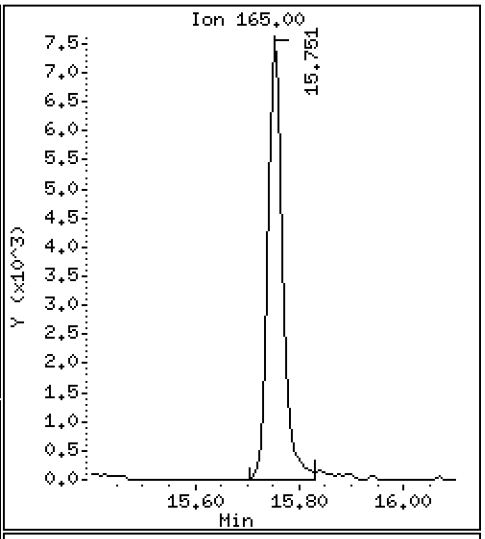
Column phase: ZB-5msi

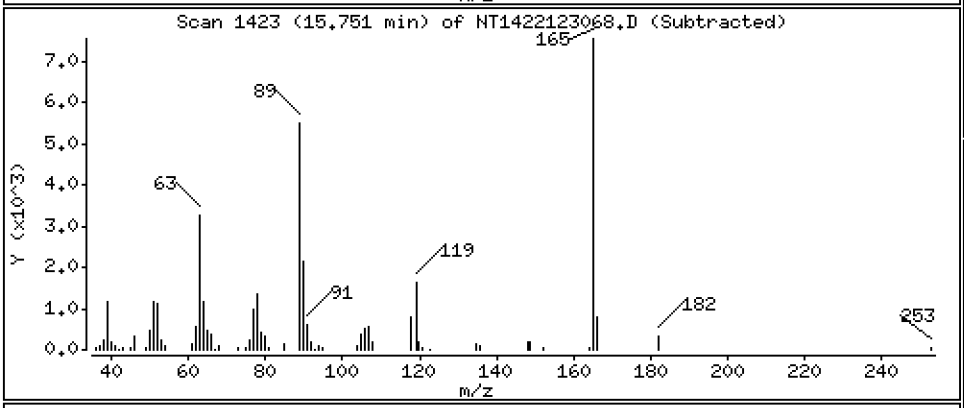
Column diameter: 0.25

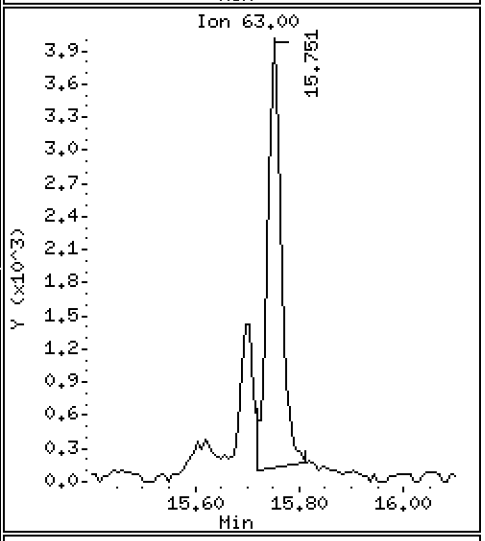
48 2,4-Dinitrotoluene

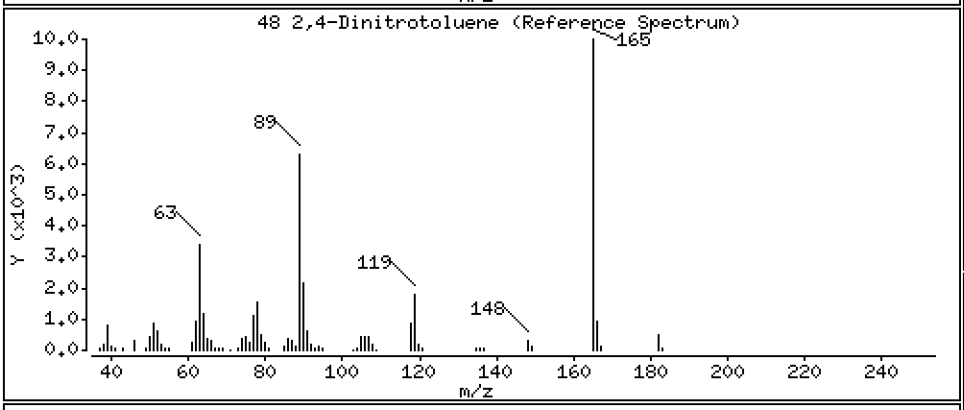
Concentration: 0.7780 ug/mL

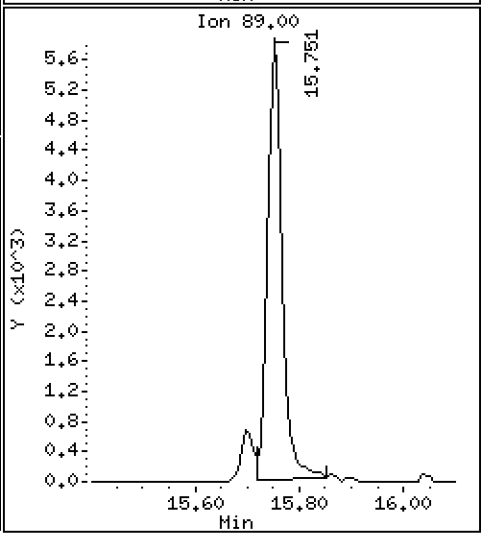


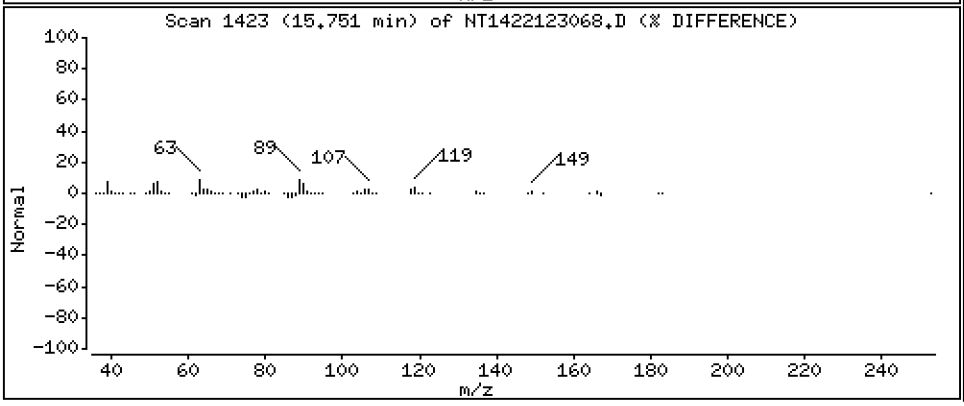












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

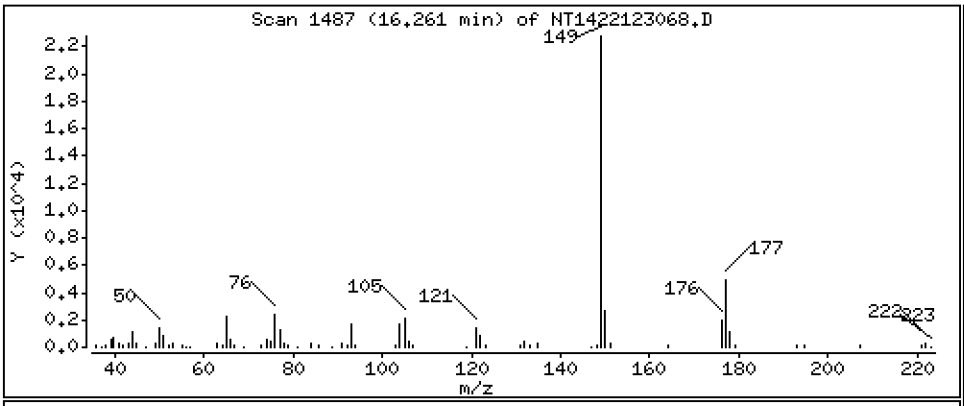
Operator: VTS

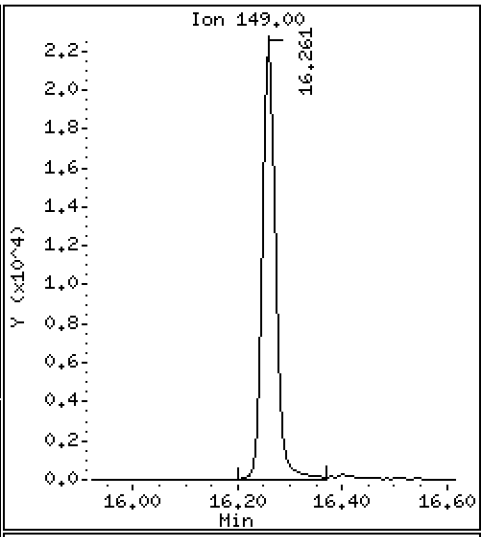
Column phase: ZB-5msi

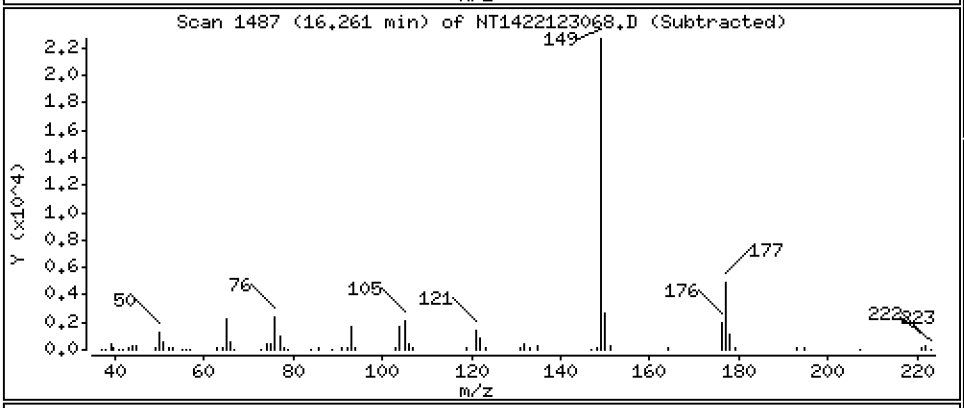
Column diameter: 0.25

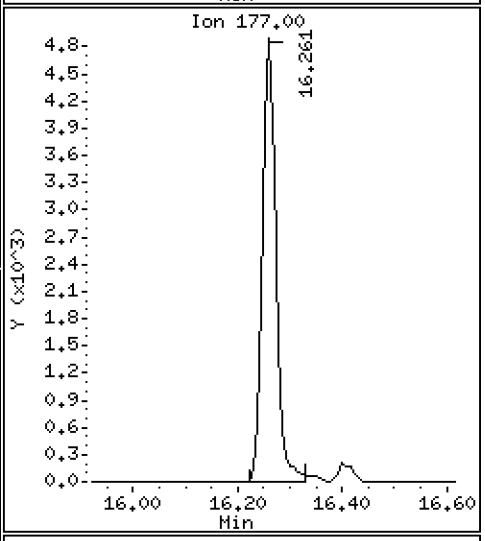
50 Diethylphthalate

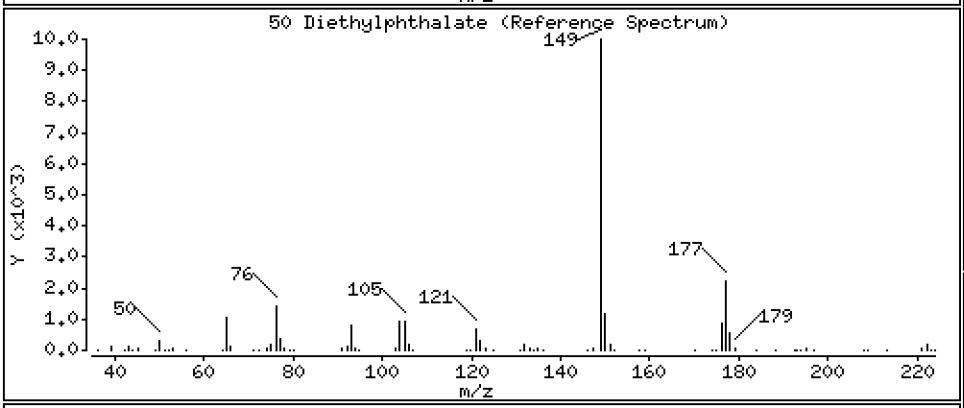
Concentration: 0.5719 ug/mL

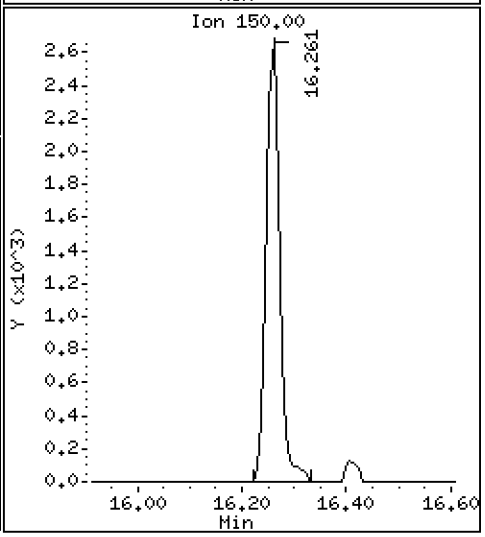


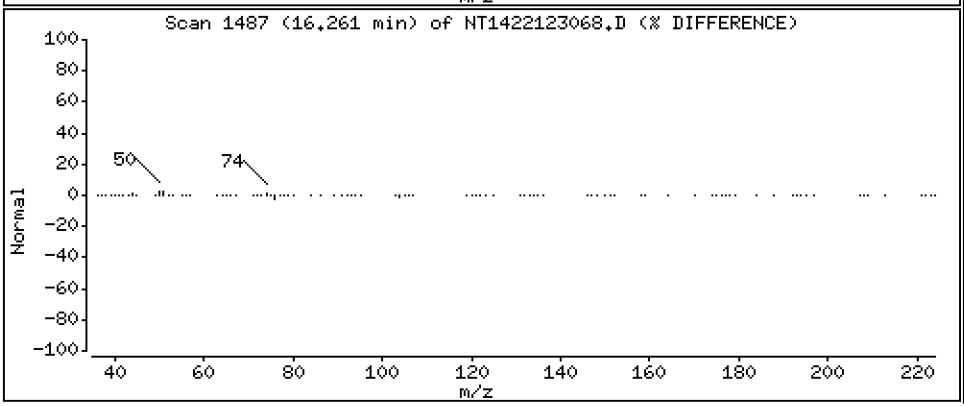












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123068.D

Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

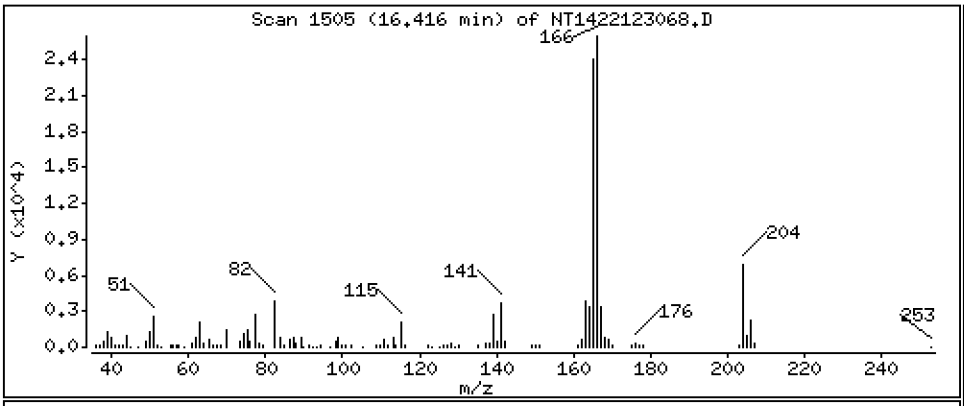
Operator: VTS

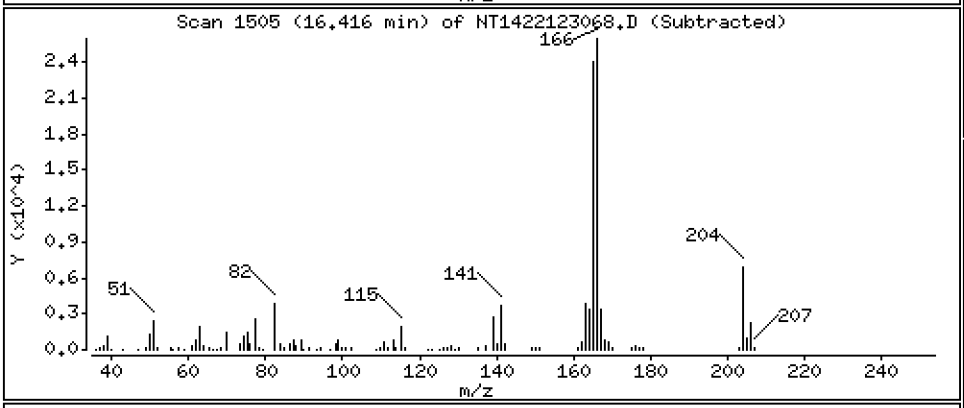
Column phase: ZB-5msi

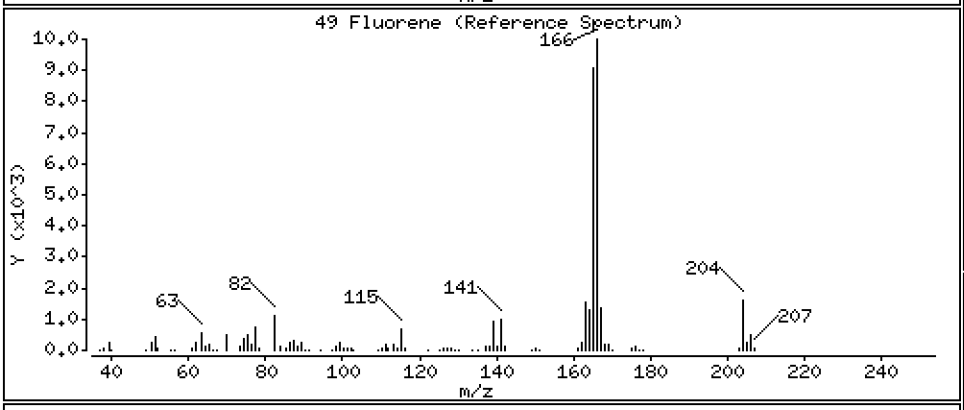
Column diameter: 0.25

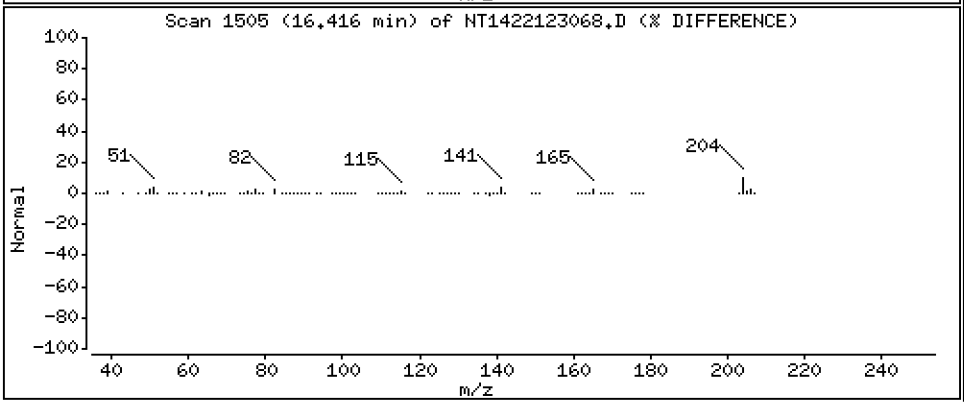
49 Fluorene

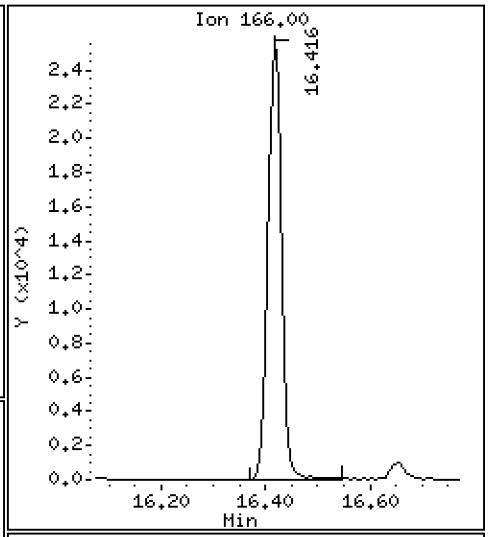
Concentration: 0.4880 ug/mL

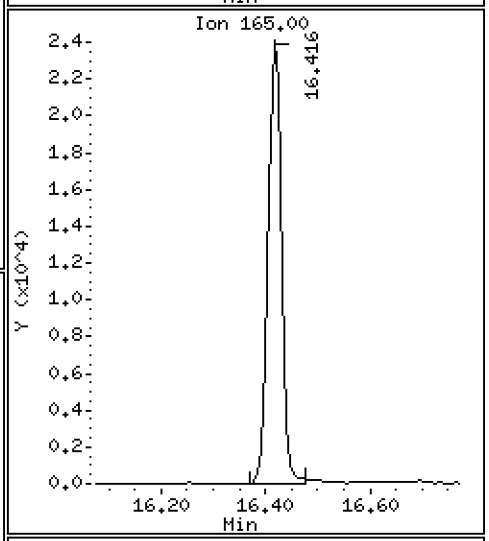


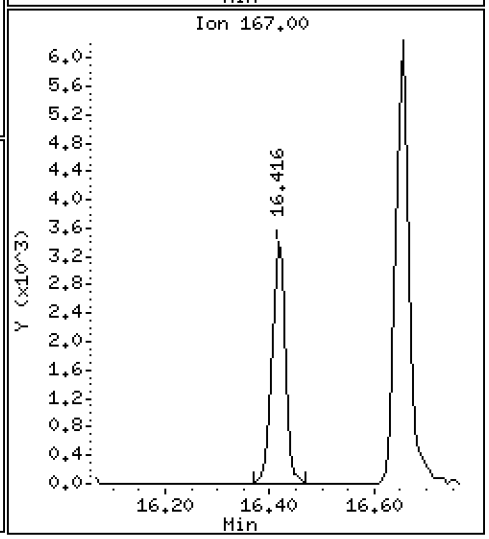












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

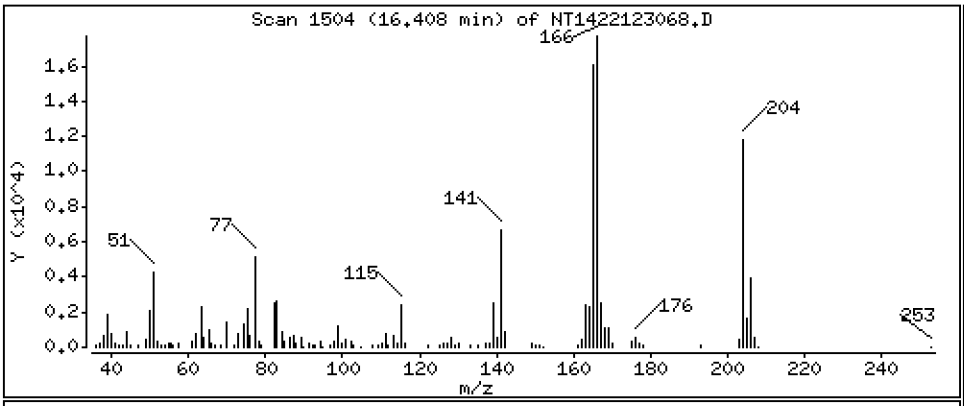
Operator: VTS

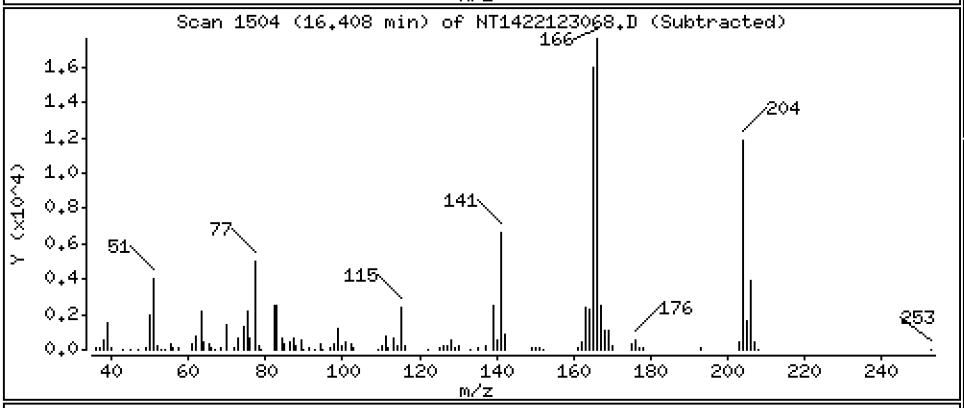
Column phase: ZB-5msi

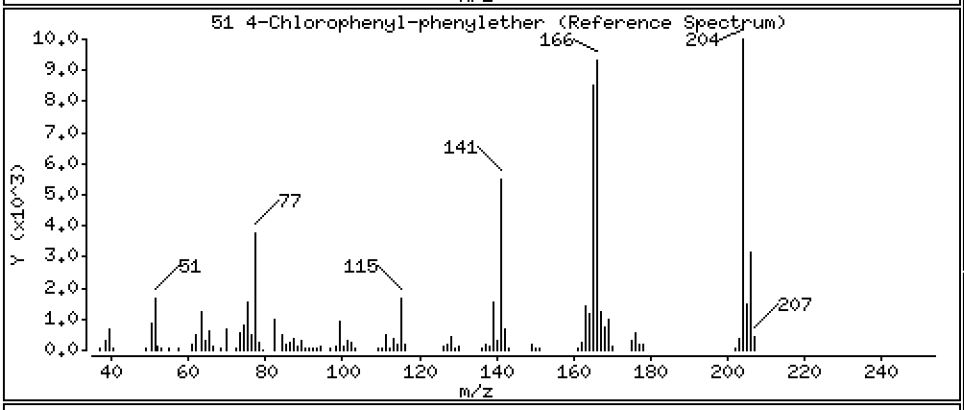
Column diameter: 0.25

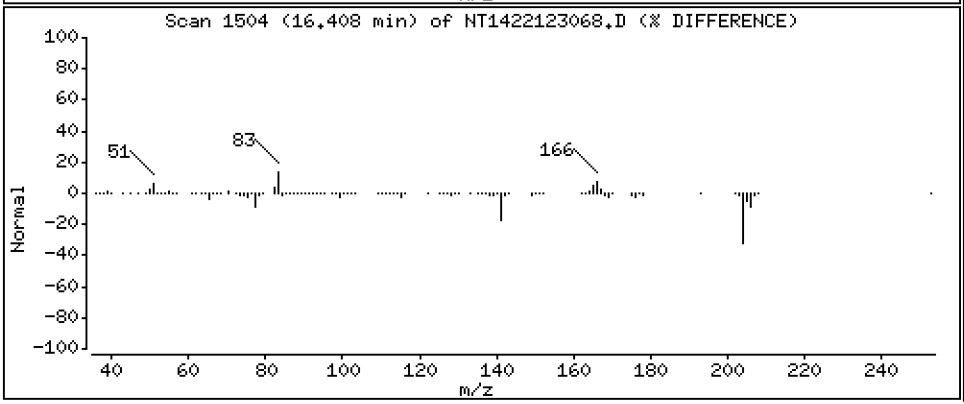
51 4-Chlorophenyl-phenylether

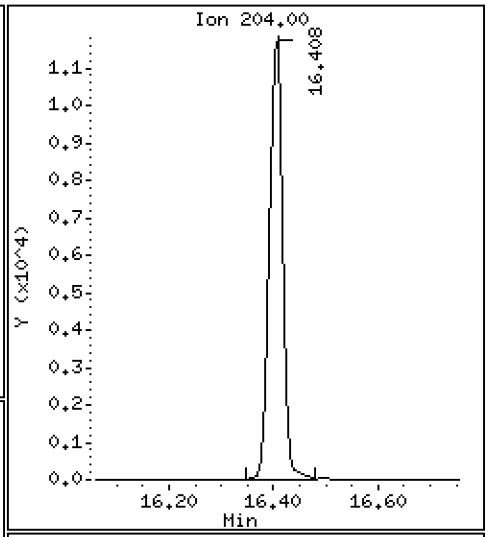
Concentration: 0.5123 ug/mL

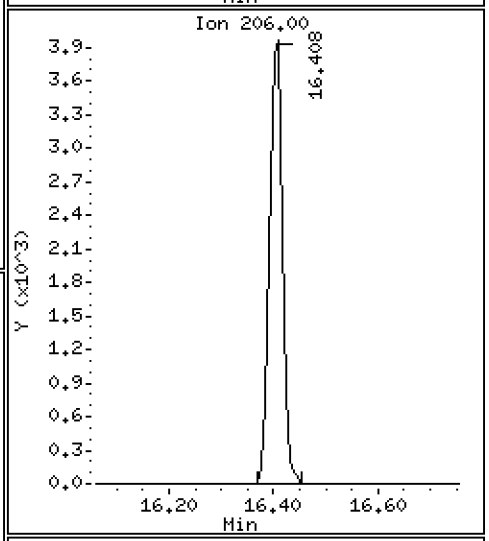


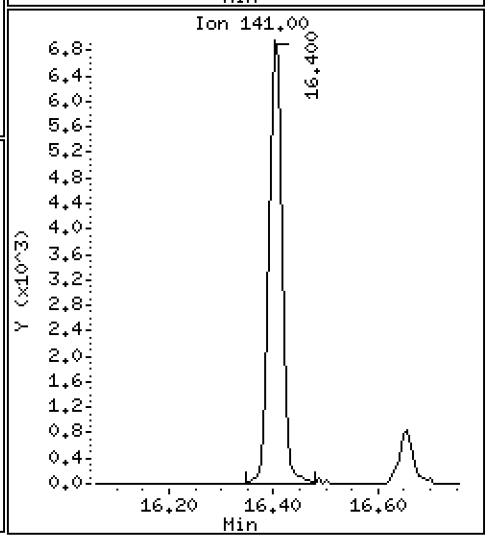












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

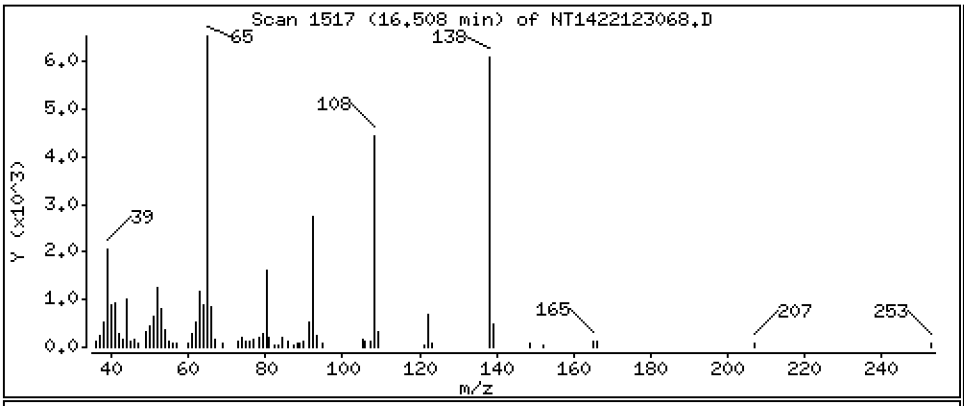
Operator: VTS

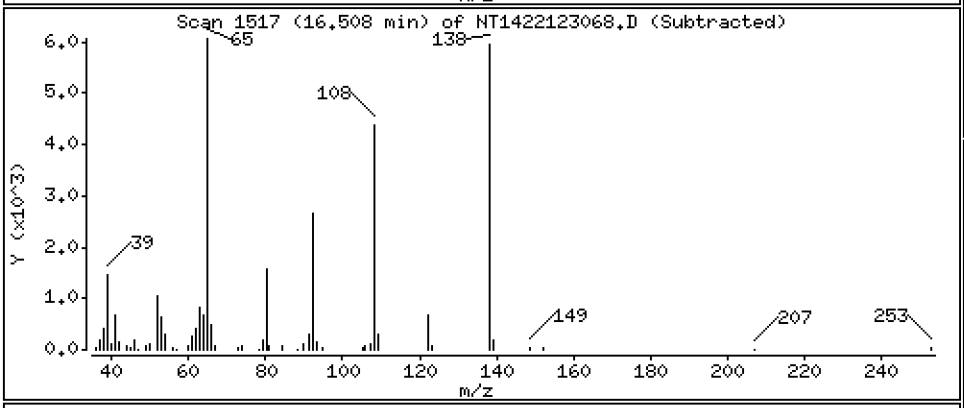
Column phase: ZB-5msi

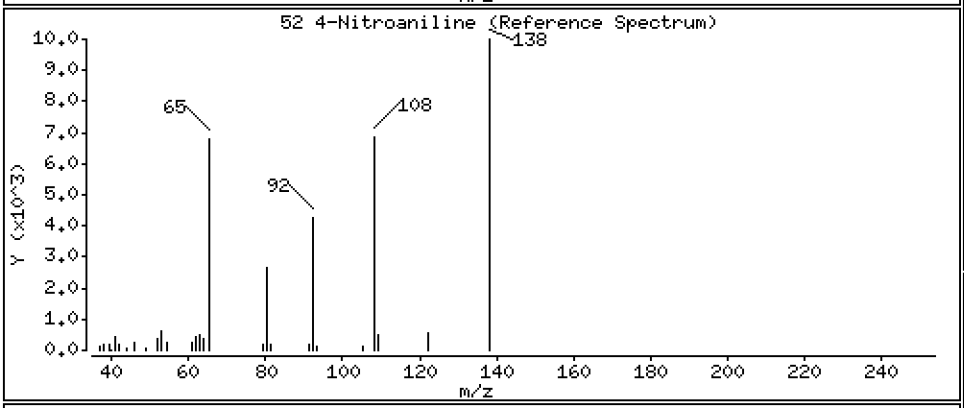
Column diameter: 0.25

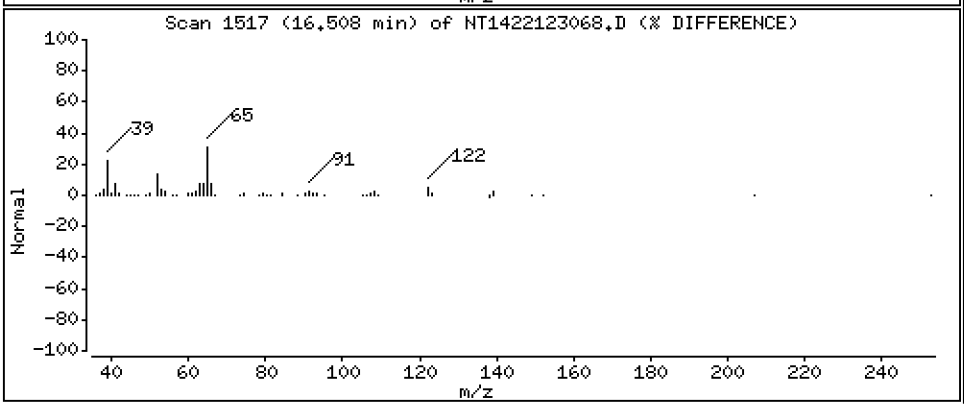
52 4-Nitroaniline

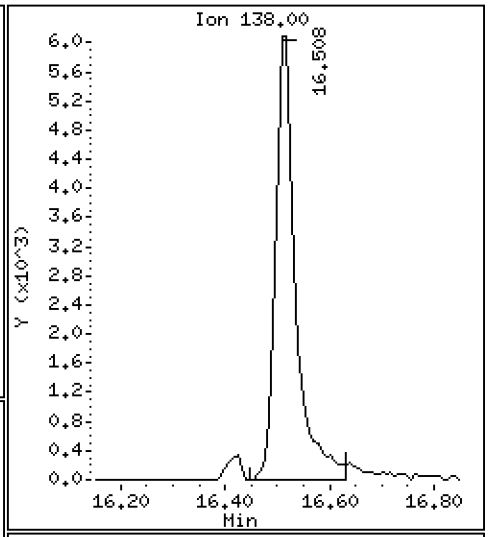
Concentration: 0.8313 ug/mL

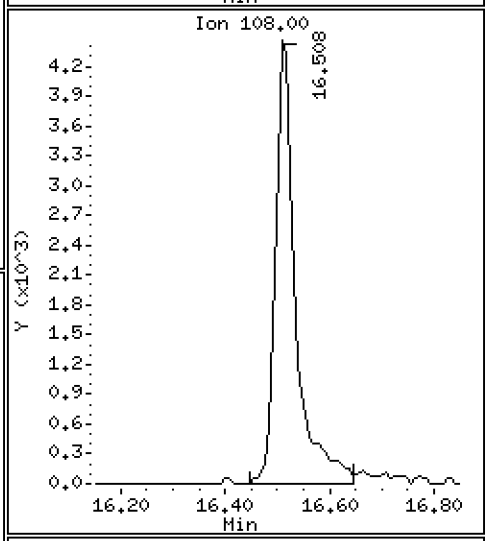


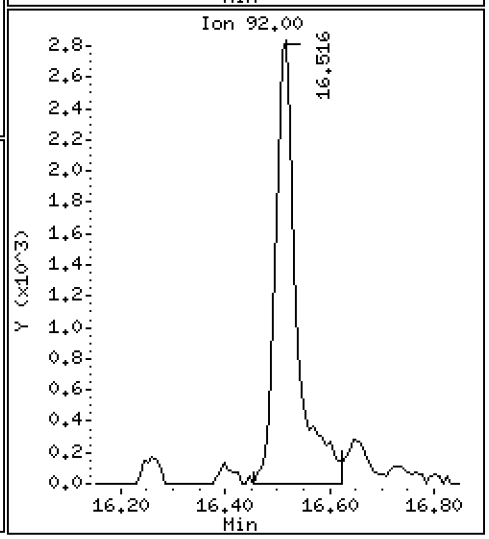












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

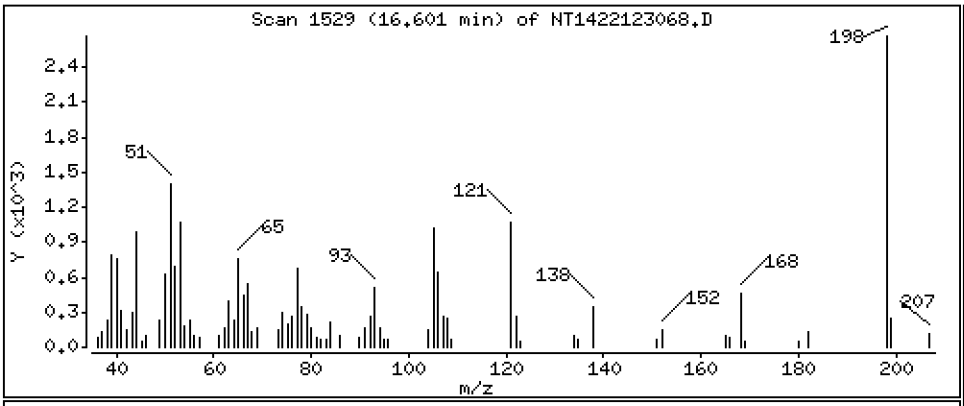
Operator: VTS

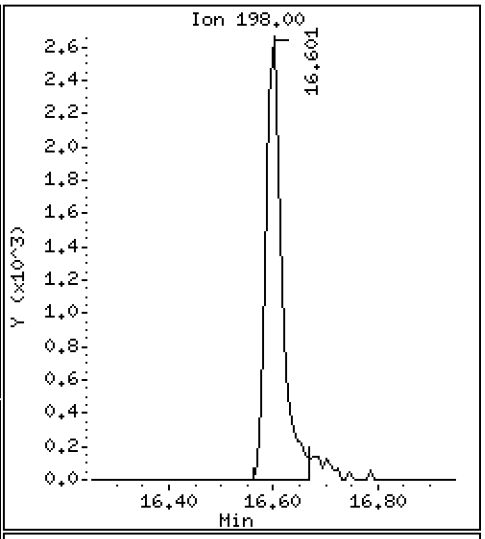
Column phase: ZB-5msi

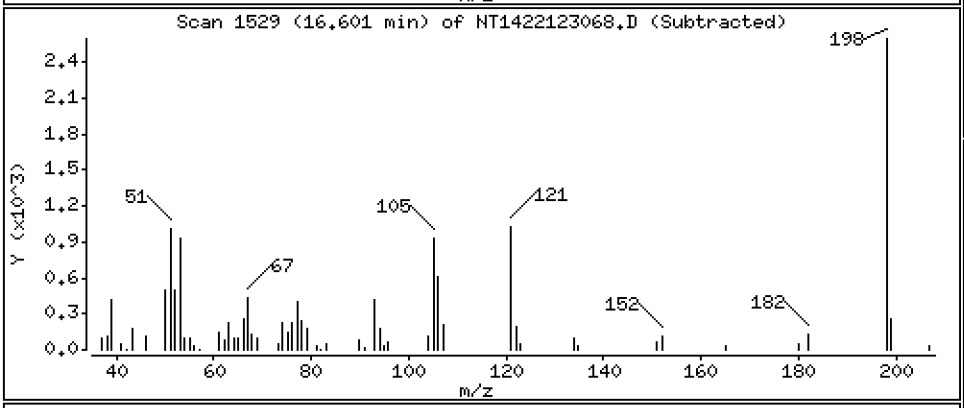
Column diameter: 0.25

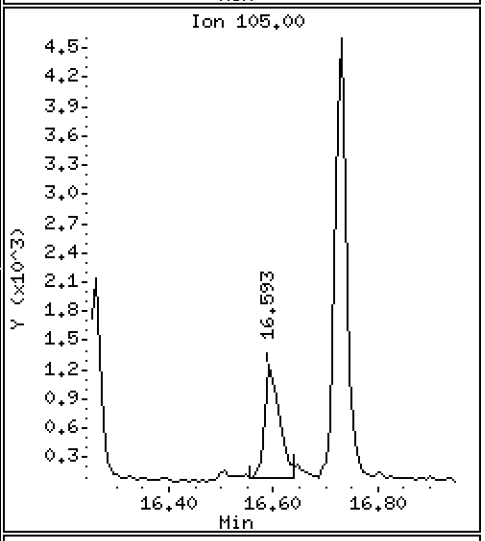
53 4,6-Dinitro-2-methylphenol

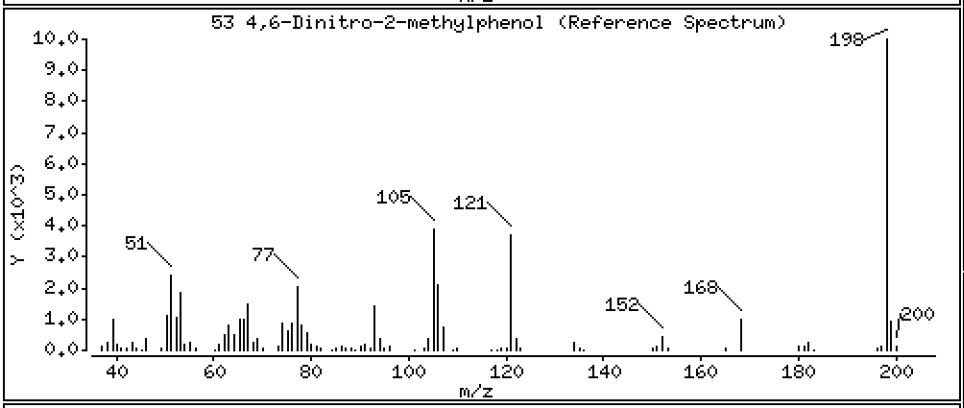
Concentration: 0.3826 ug/mL

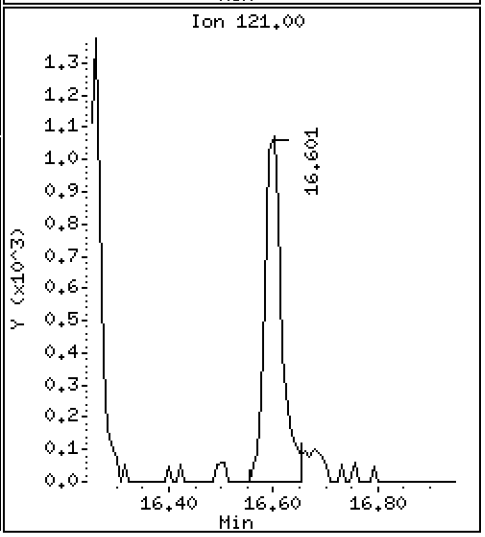


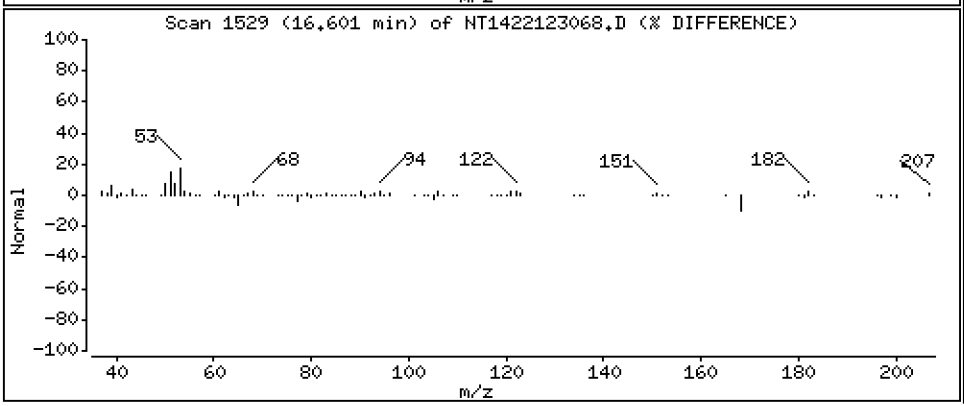












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

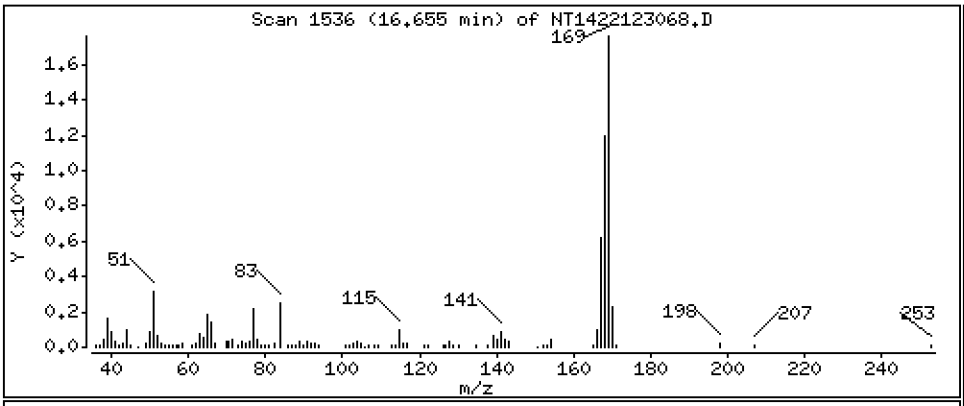
Operator: VTS

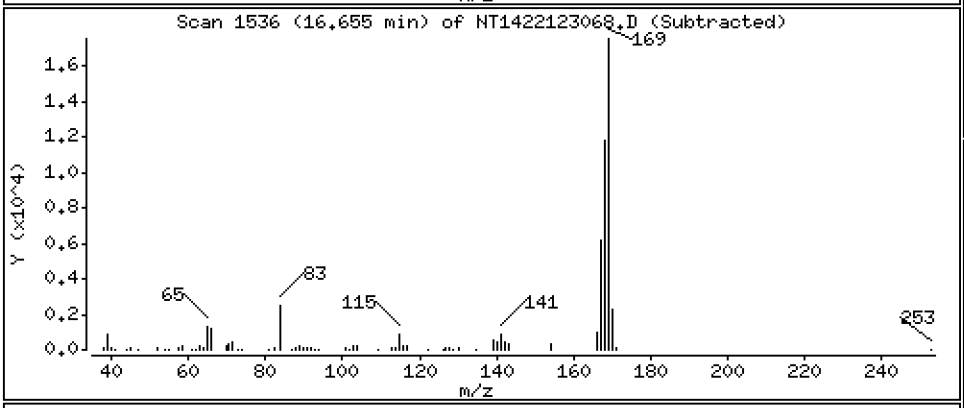
Column phase: ZB-5msi

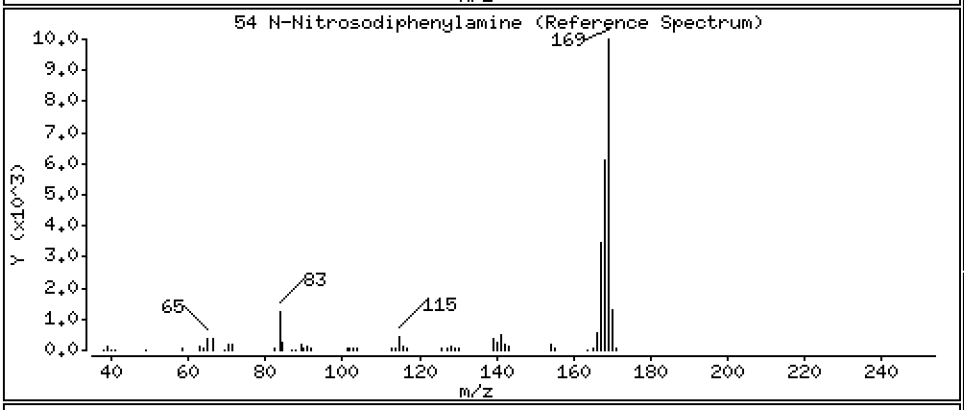
Column diameter: 0.25

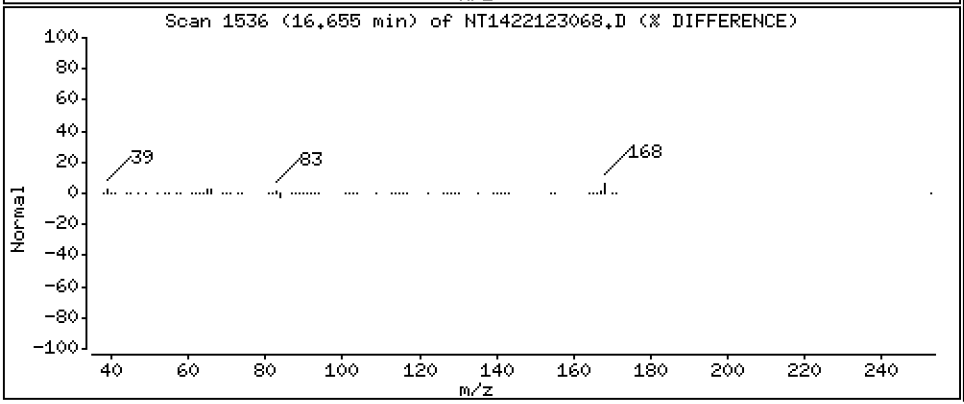
54 N-Nitrosodiphenylamine

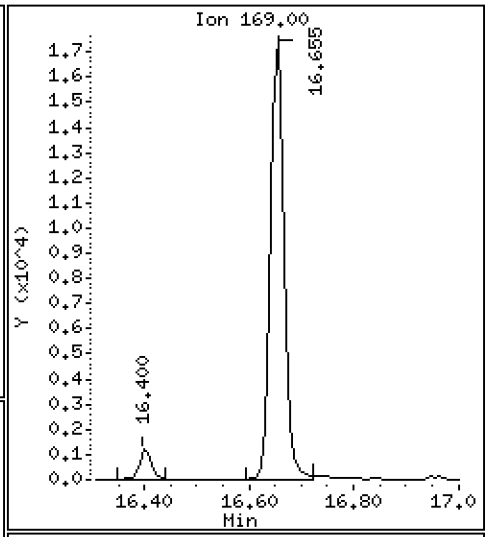
Concentration: 0.5115 ug/mL

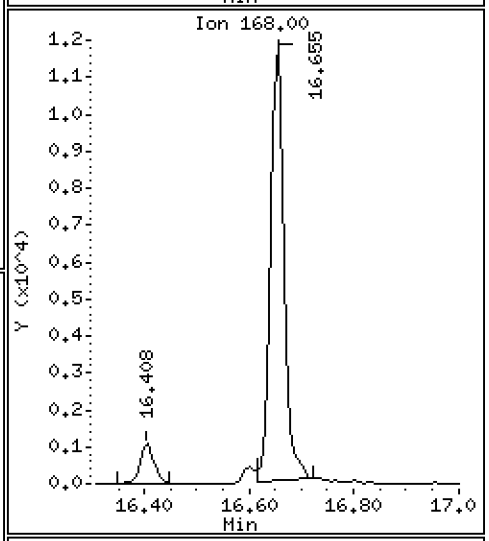


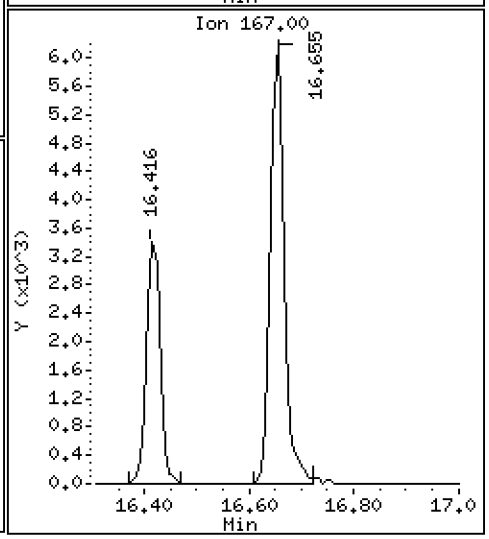












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

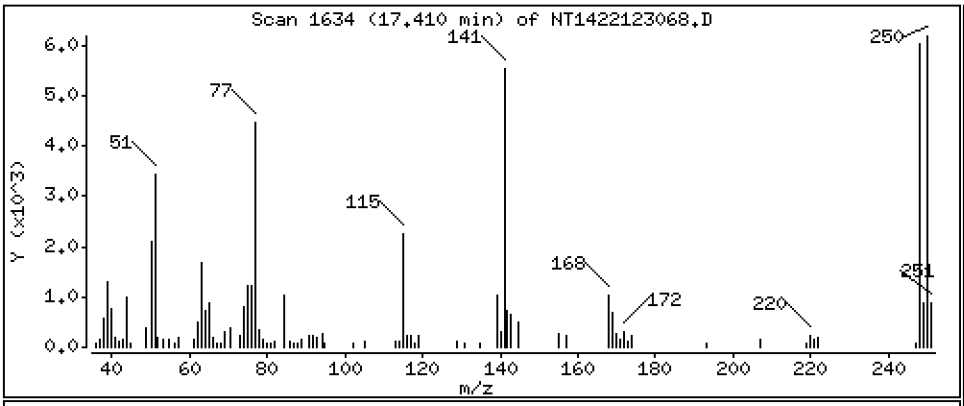
Operator: VTS

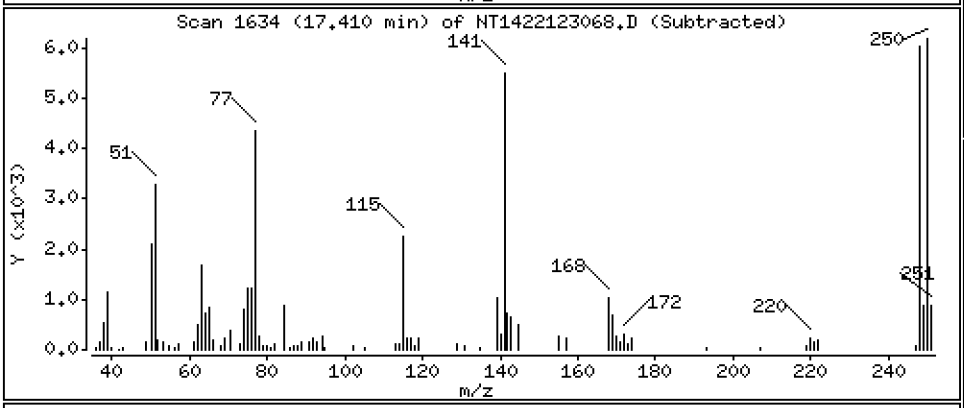
Column phase: ZB-5msi

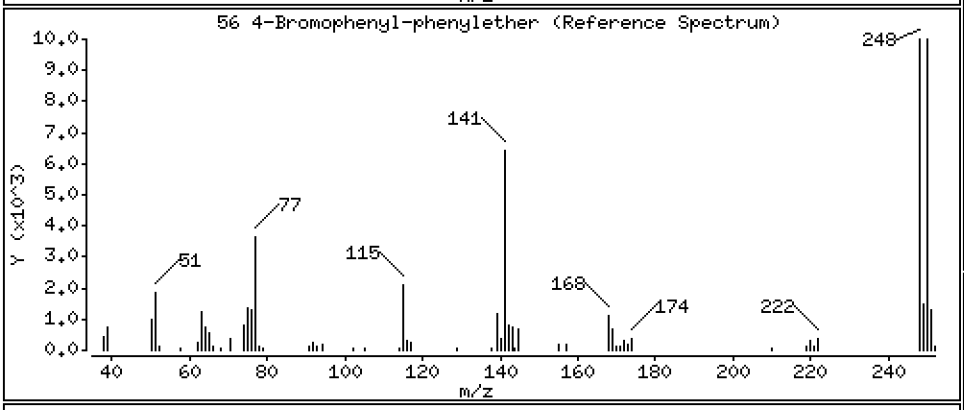
Column diameter: 0.25

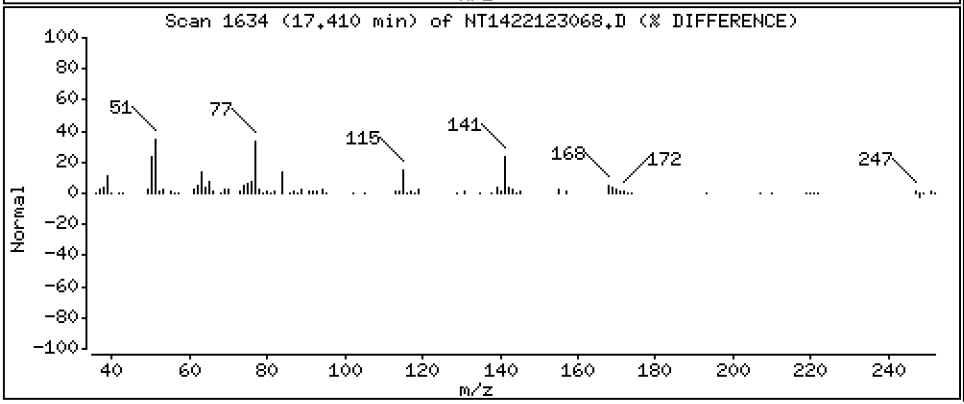
56 4-Bromophenyl-phenylether

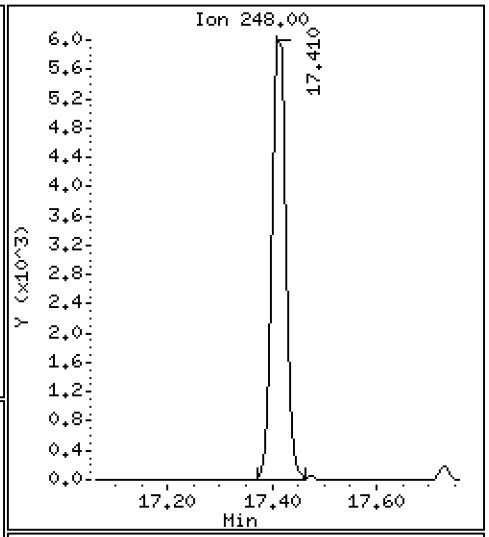
Concentration: 0.4732 ug/mL

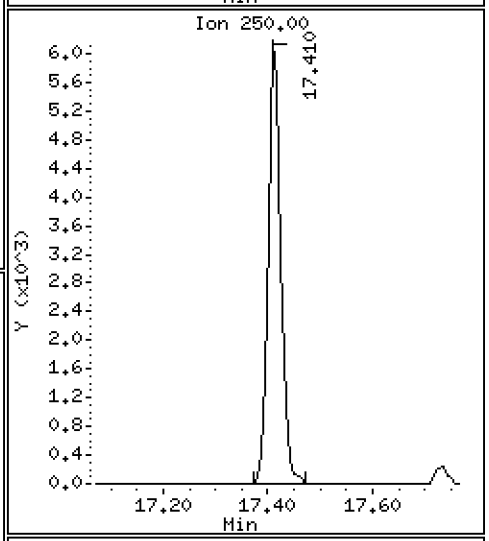


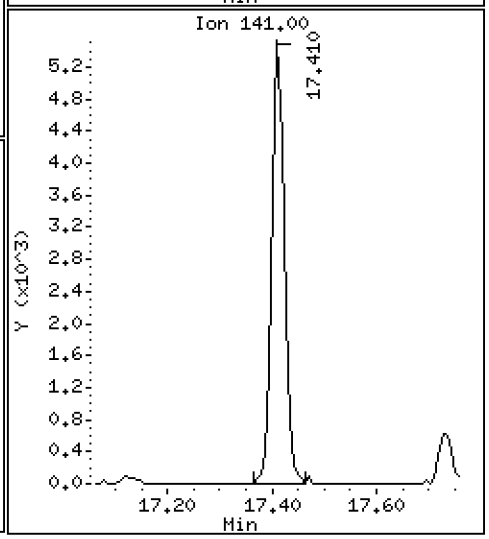












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

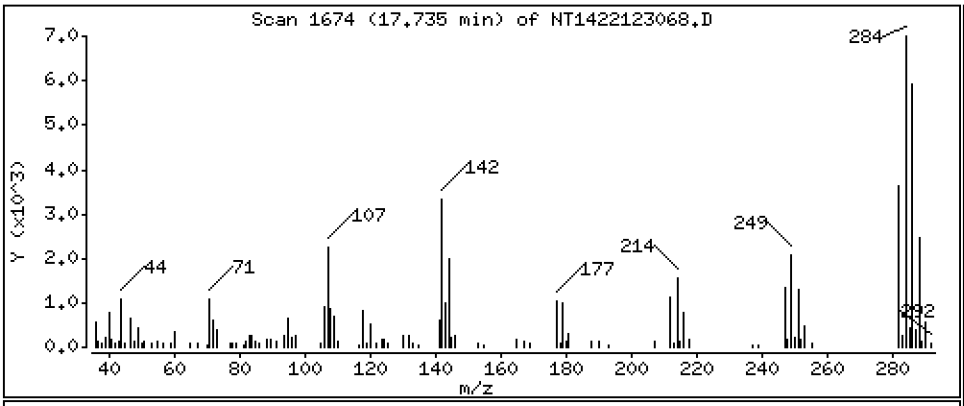
Operator: VTS

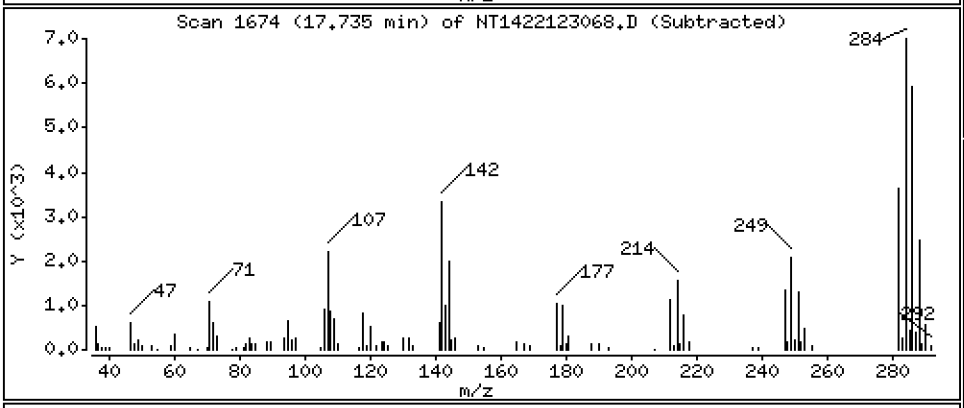
Column phase: ZB-5msi

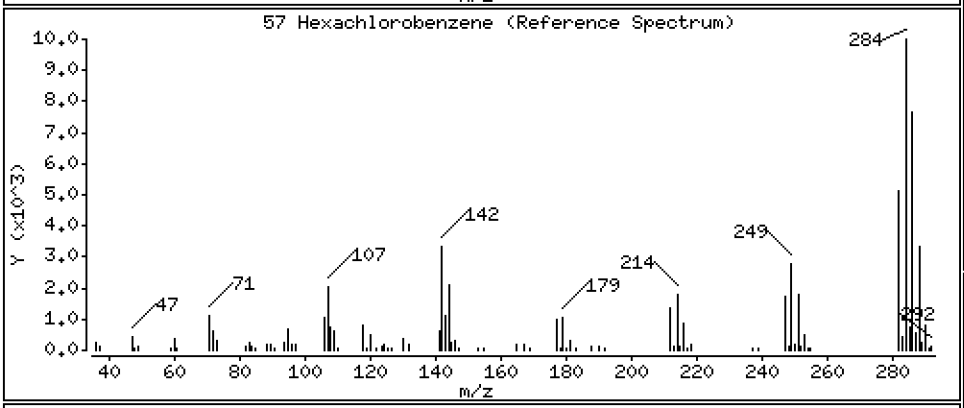
Column diameter: 0.25

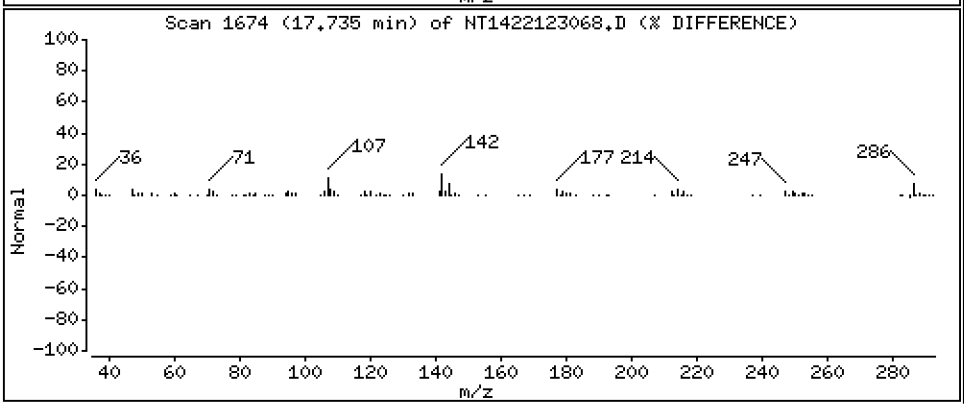
57 Hexachlorobenzene

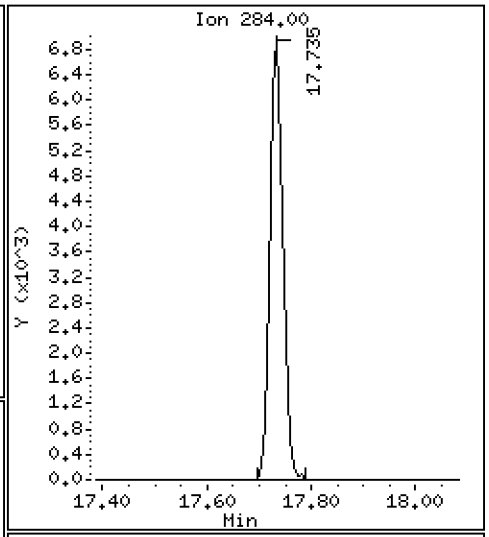
Concentration: 0.4872 ug/mL

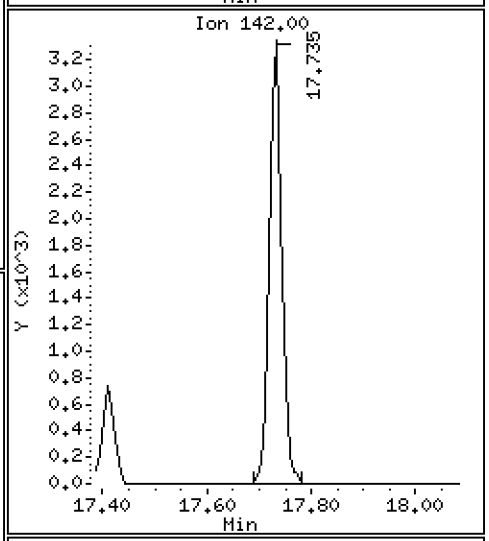


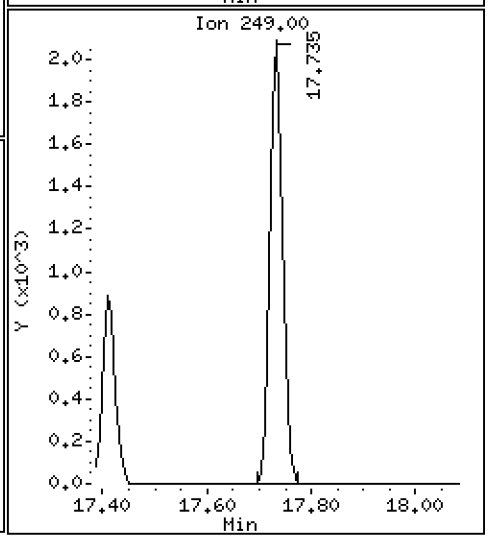












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123068.D

Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

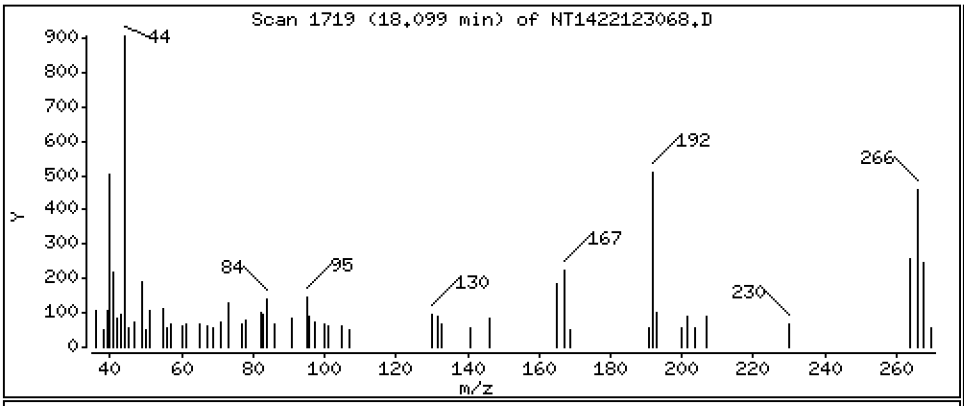
Operator: VTS

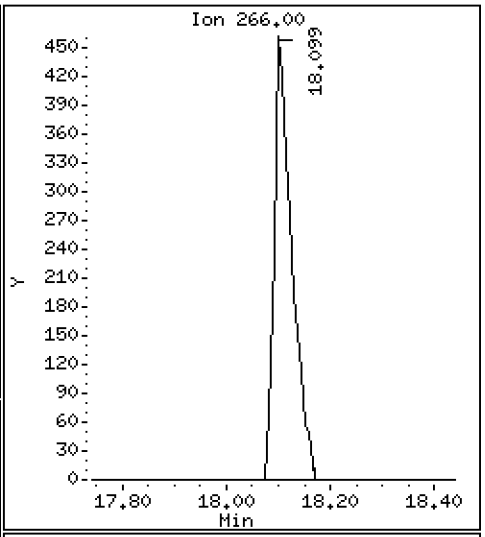
Column phase: ZB-5msi

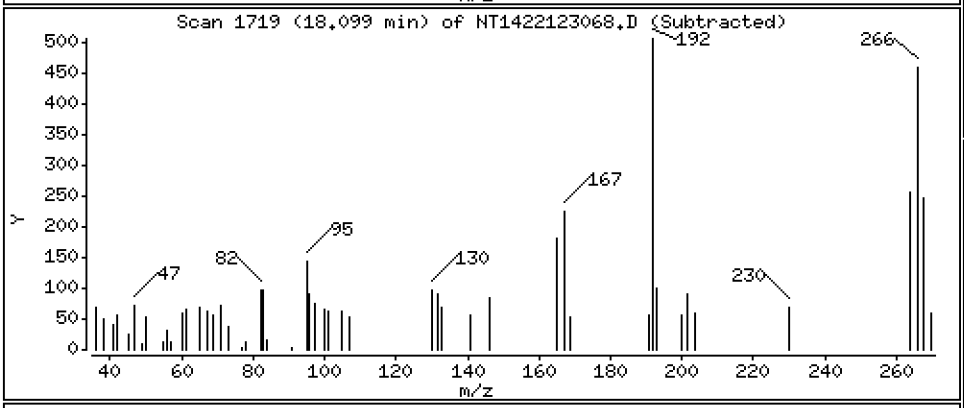
Column diameter: 0.25

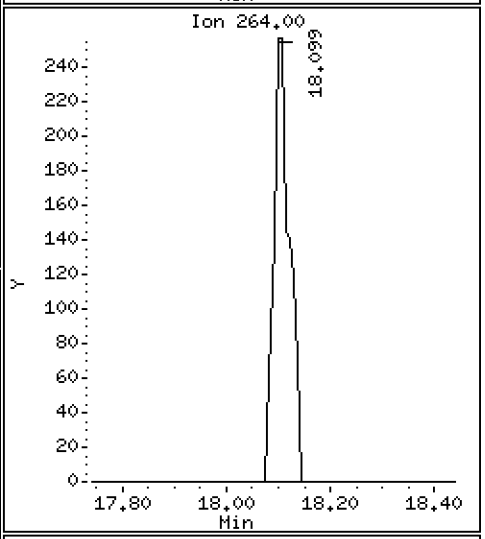
58 Pentachlorophenol

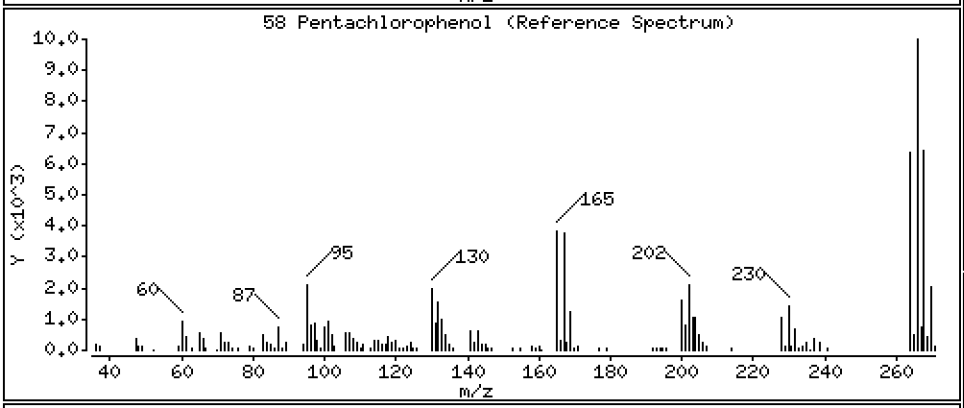
Concentration: 0.1037 ug/mL

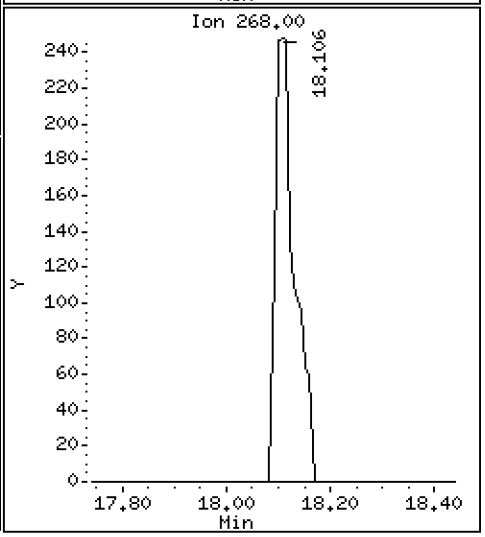


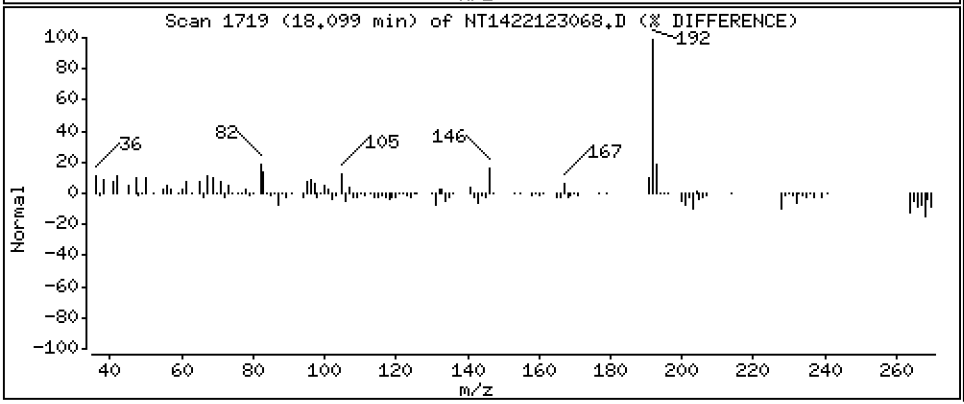












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

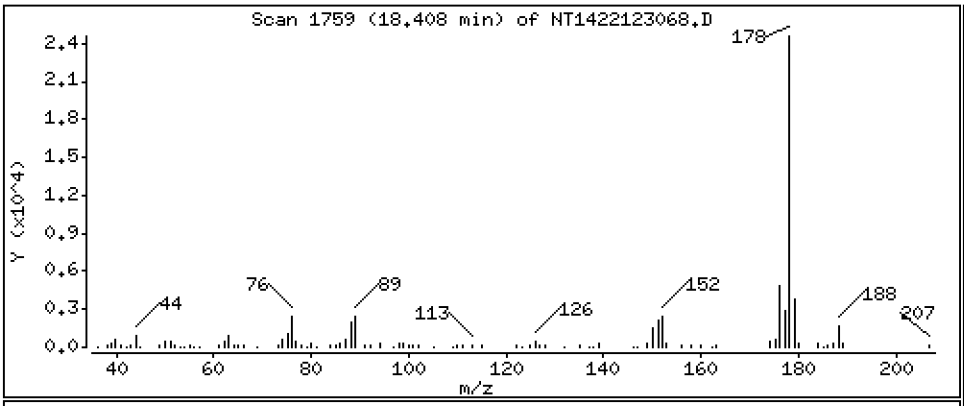
Operator: VTS

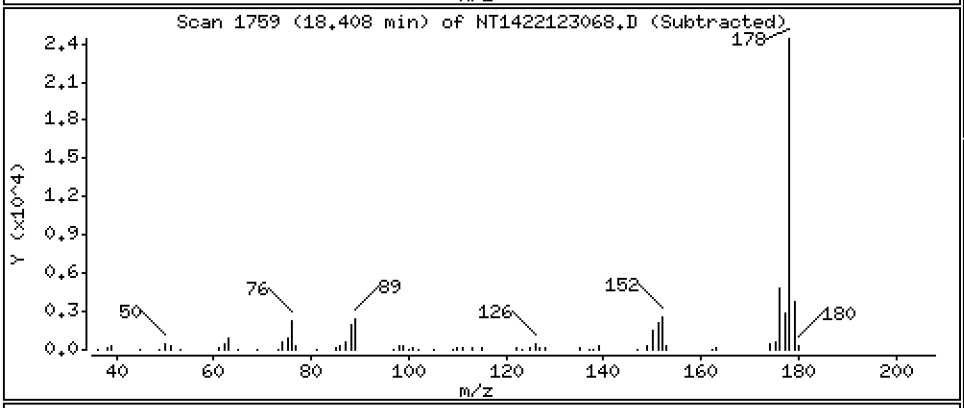
Column phase: ZB-5msi

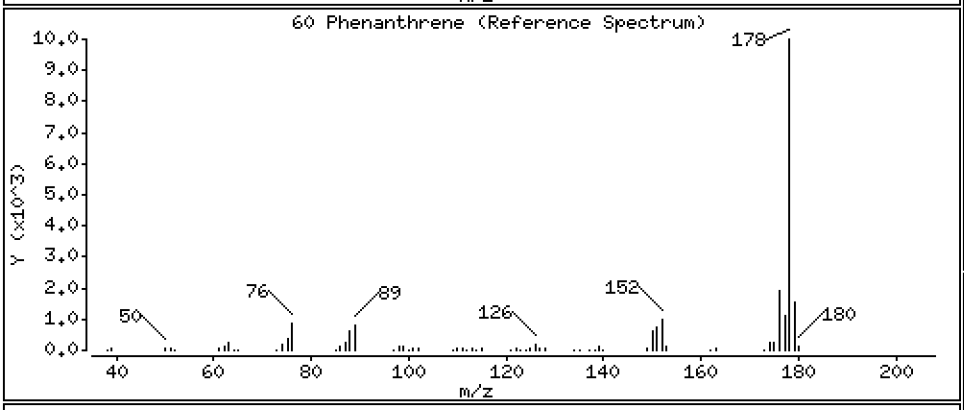
Column diameter: 0.25

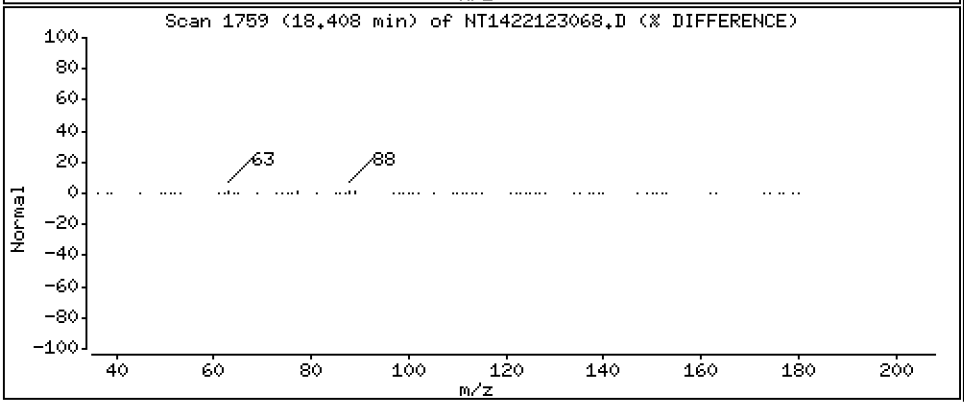
60 Phenanthrene

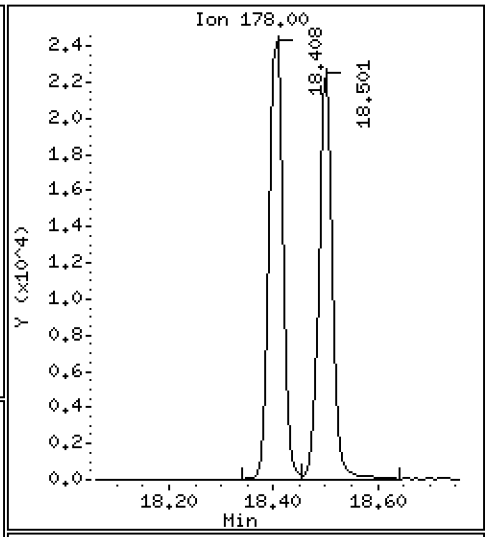
Concentration: 0.4832 ug/mL

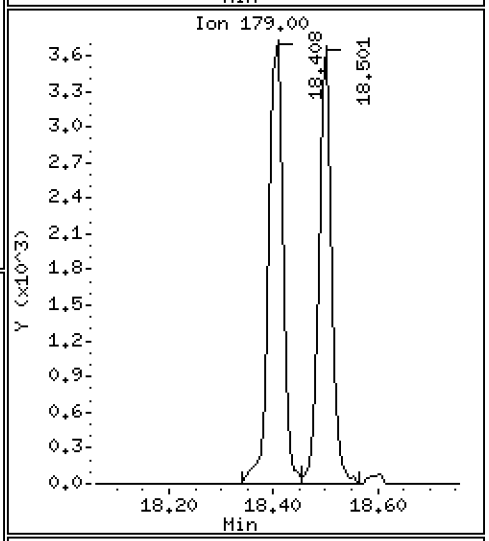


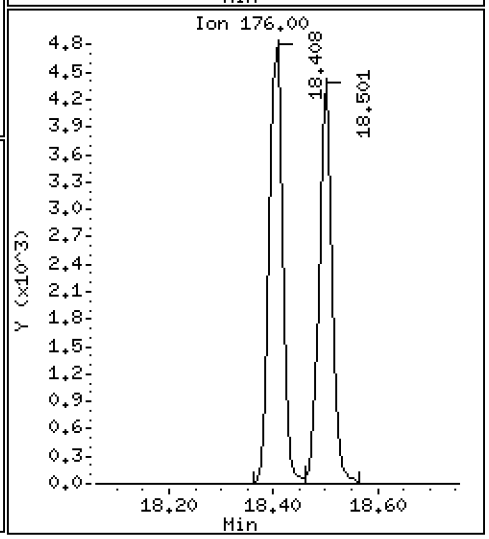












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

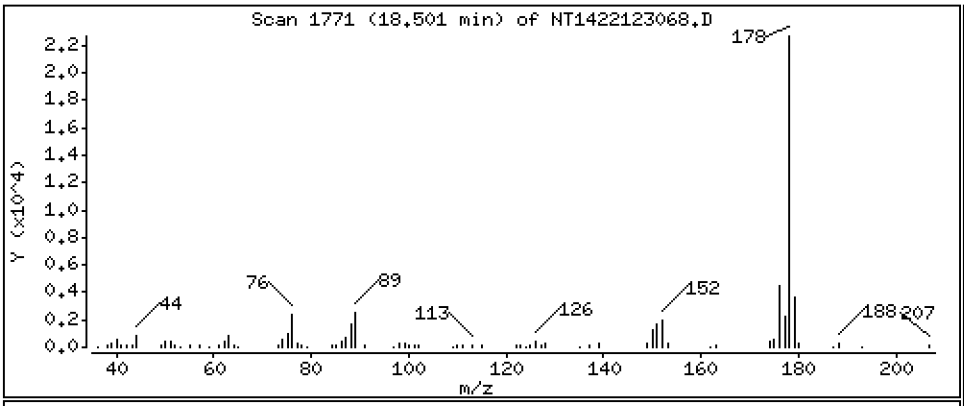
Operator: VTS

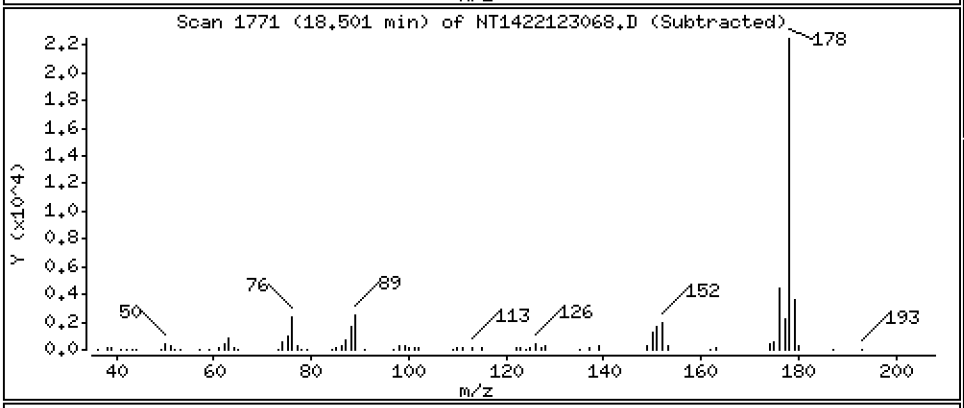
Column phase: ZB-5msi

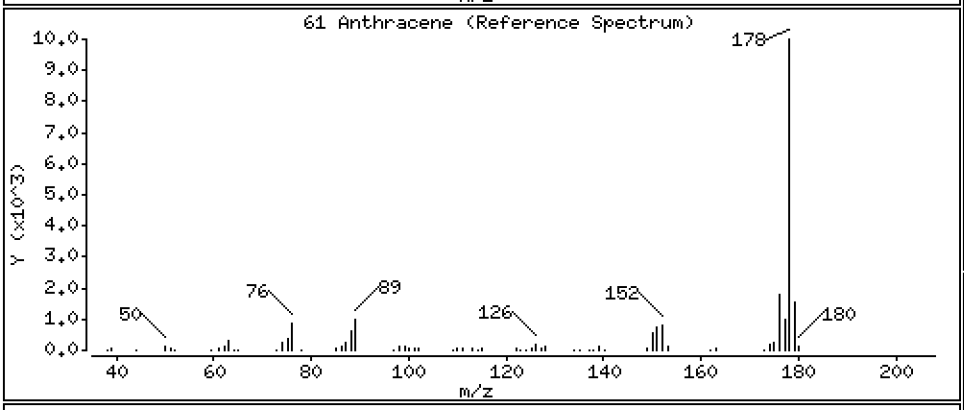
Column diameter: 0.25

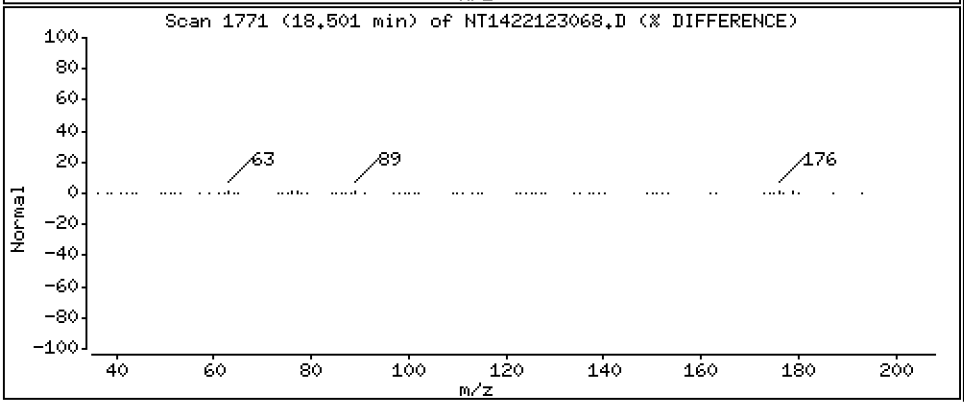
61 Anthracene

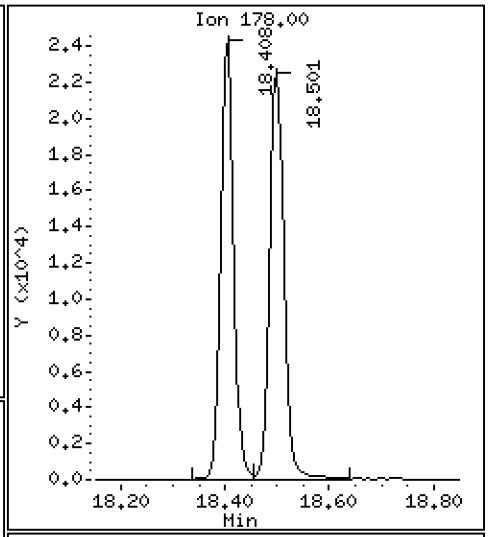
Concentration: 0.4848 ug/mL

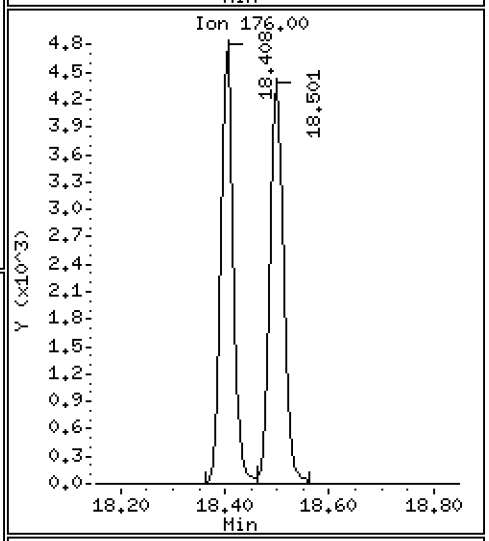


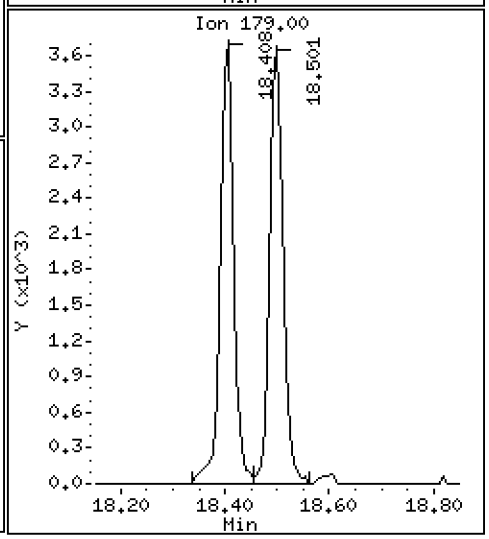












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

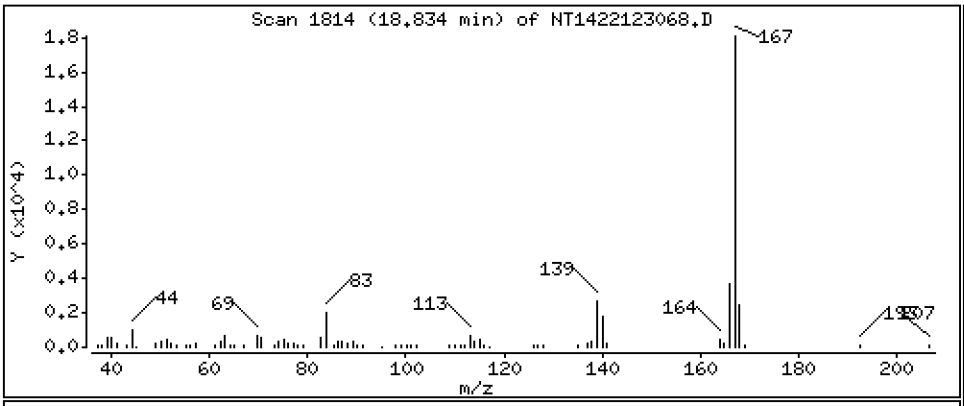
Operator: VTS

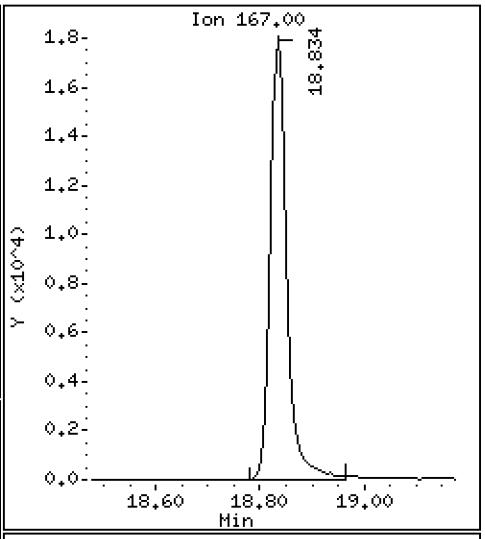
Column phase: ZB-5msi

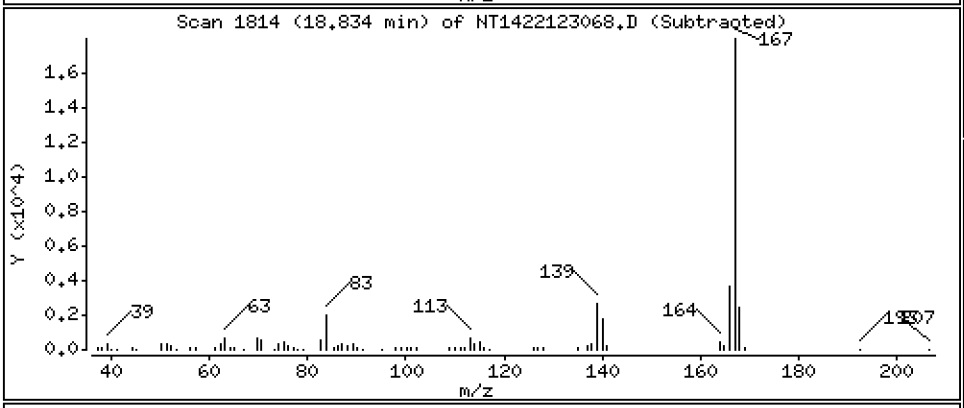
Column diameter: 0.25

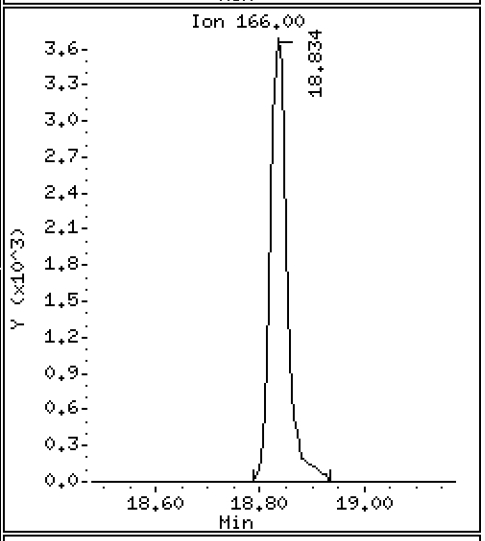
62 Carbazole

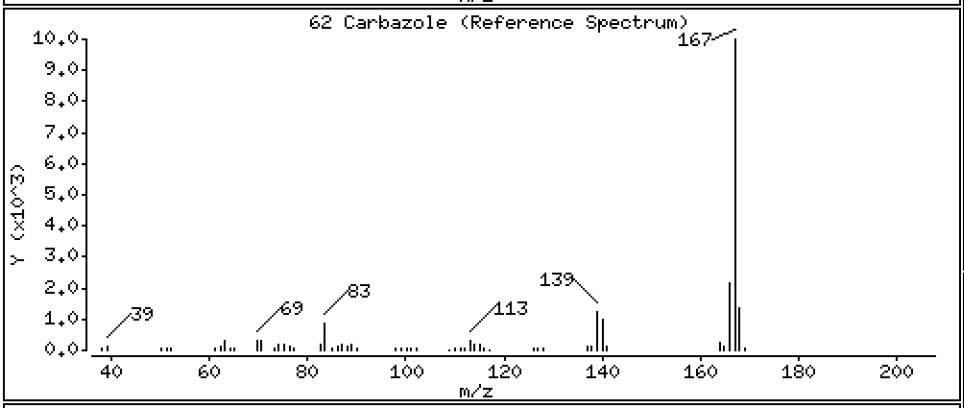
Concentration: 0.4681 ug/mL

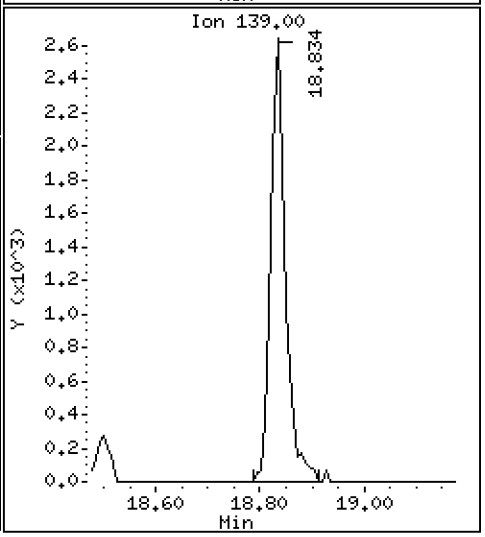


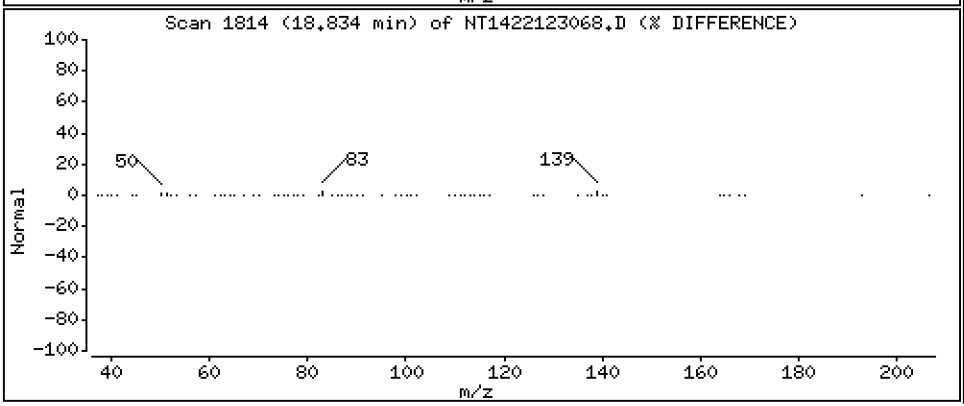












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

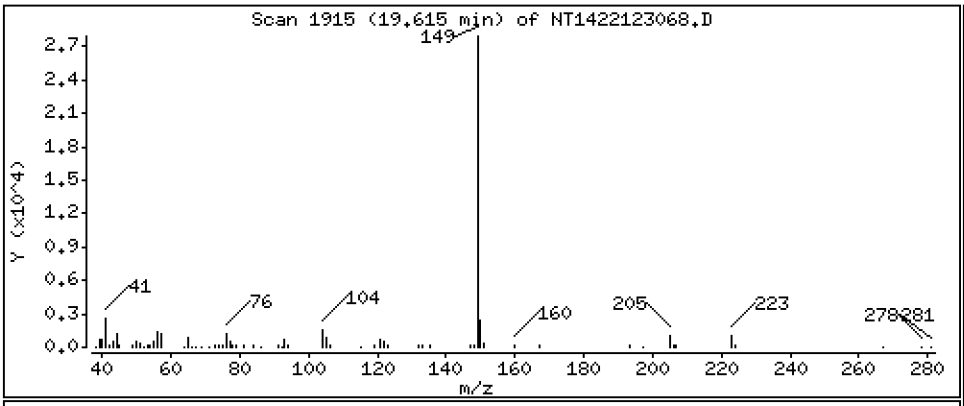
Operator: VTS

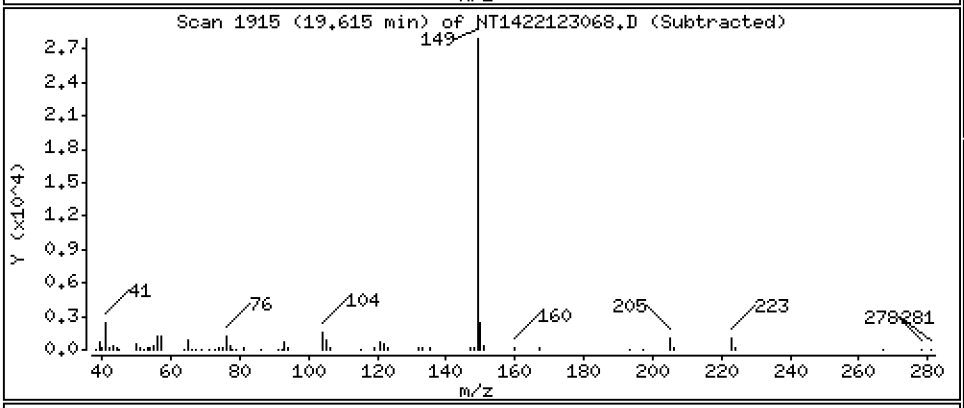
Column phase: ZB-5msi

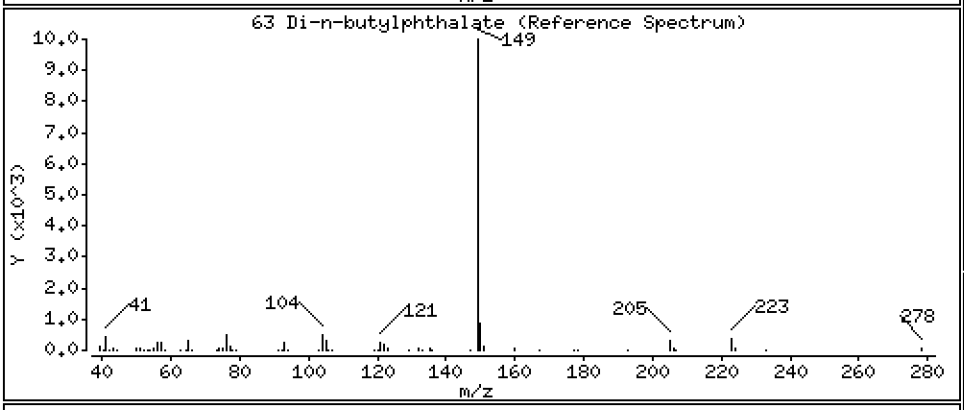
Column diameter: 0.25

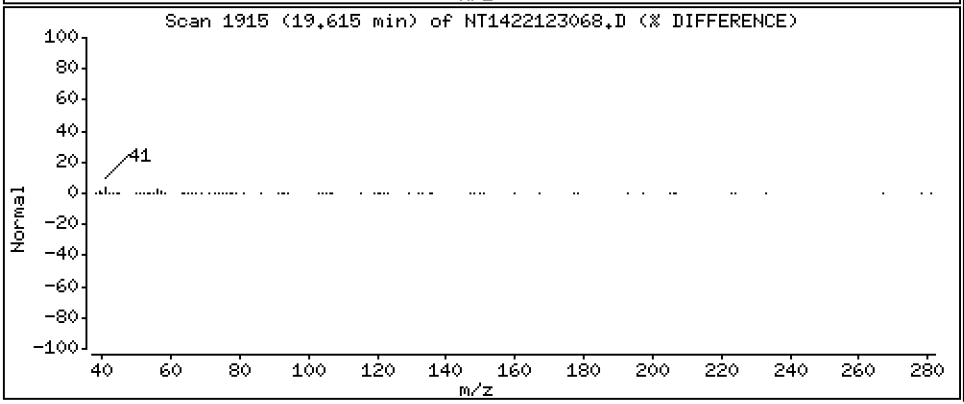
63 Di-n-butylphthalate

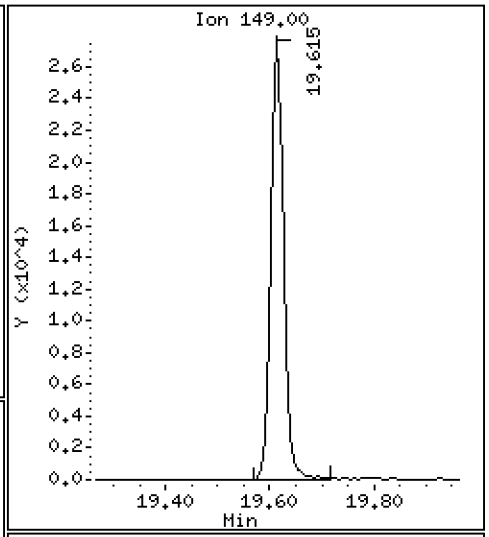
Concentration: 0.4789 ug/mL

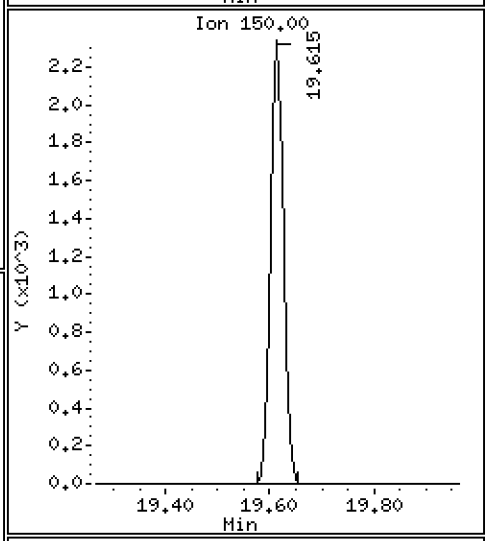


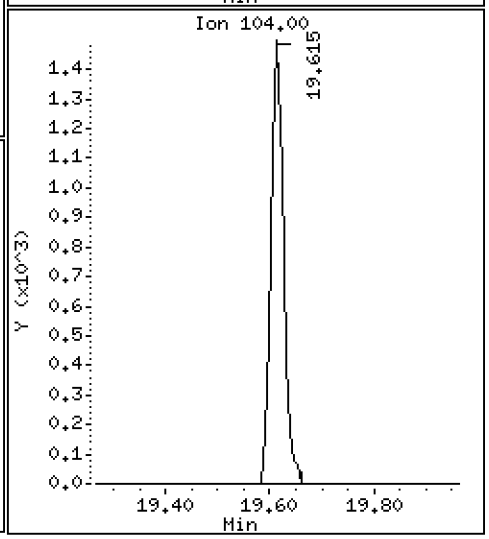












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

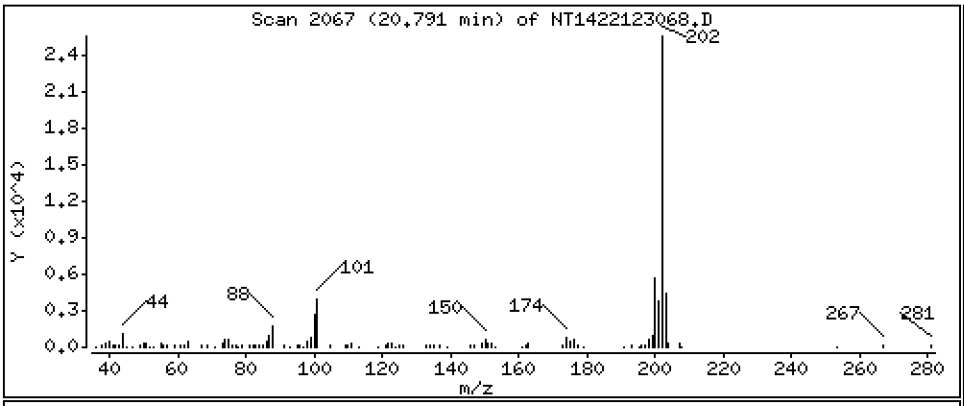
Operator: VTS

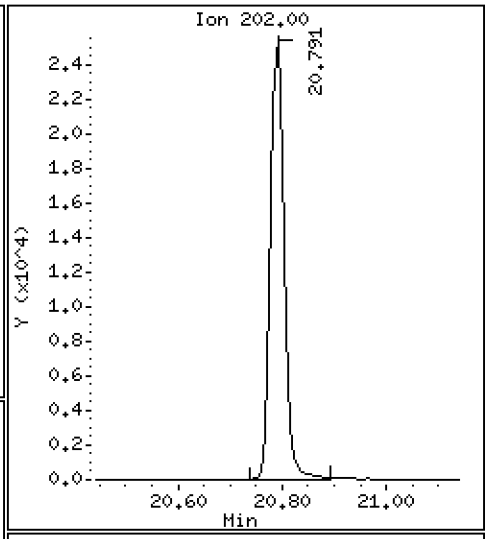
Column phase: ZB-5msi

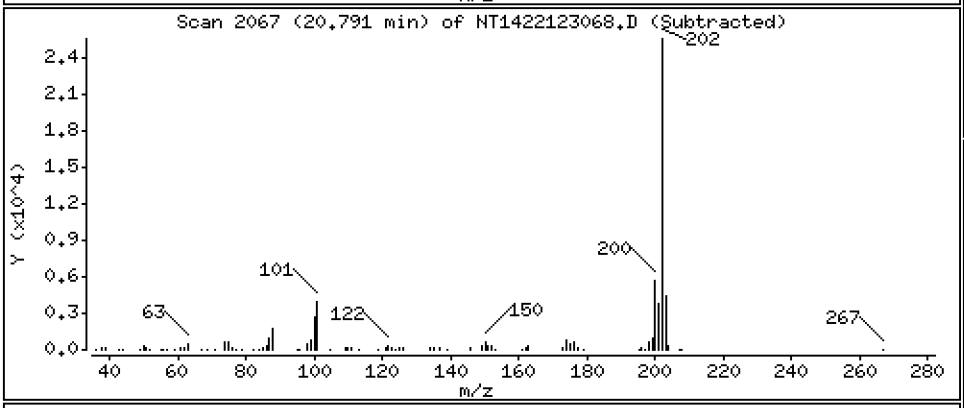
Column diameter: 0.25

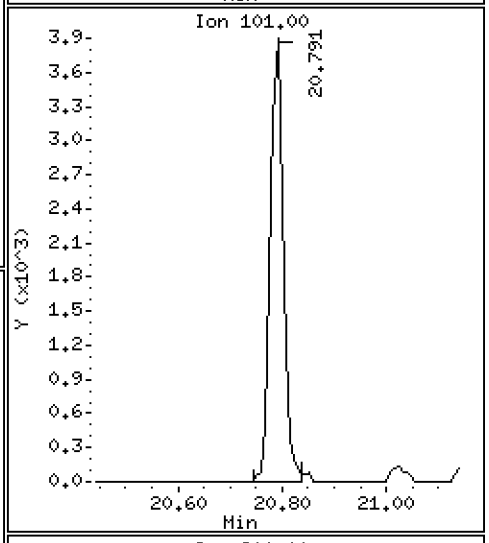
64 Fluoranthene

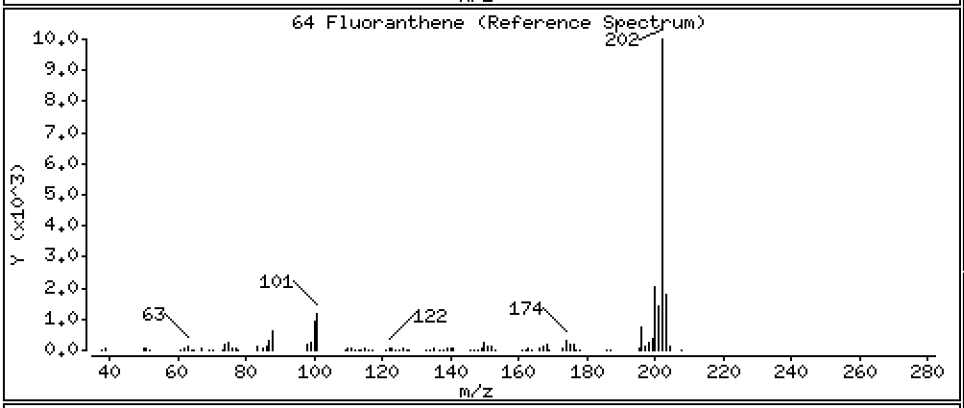
Concentration: 0.4720 ug/mL

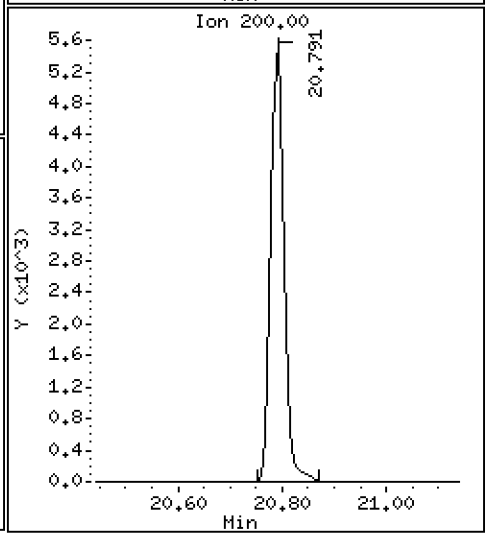


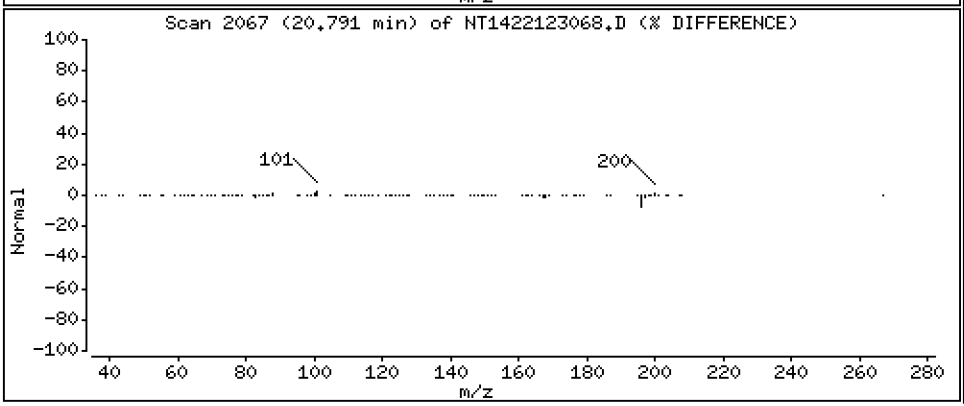












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

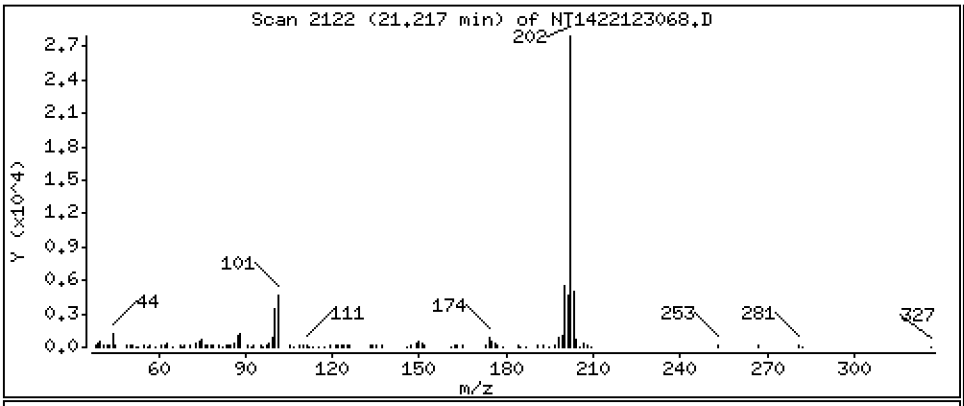
Operator: VTS

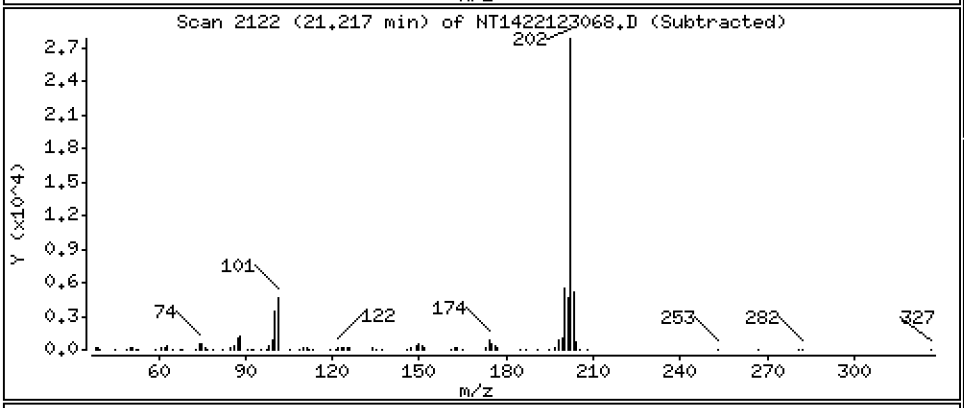
Column phase: ZB-5msi

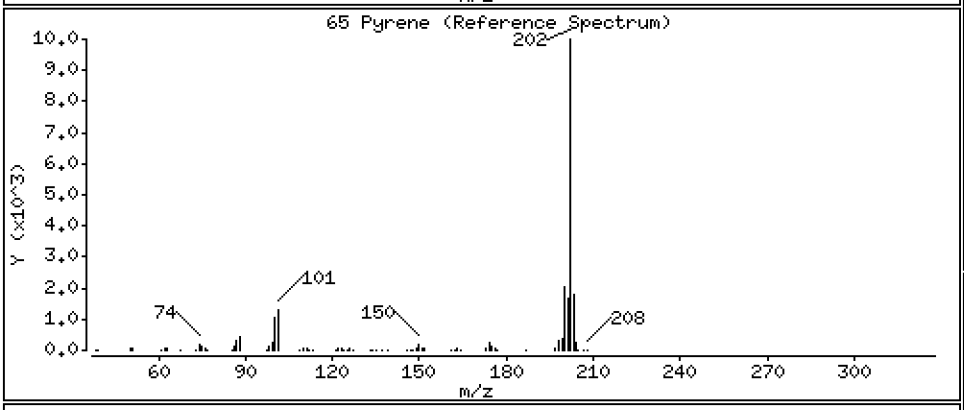
Column diameter: 0.25

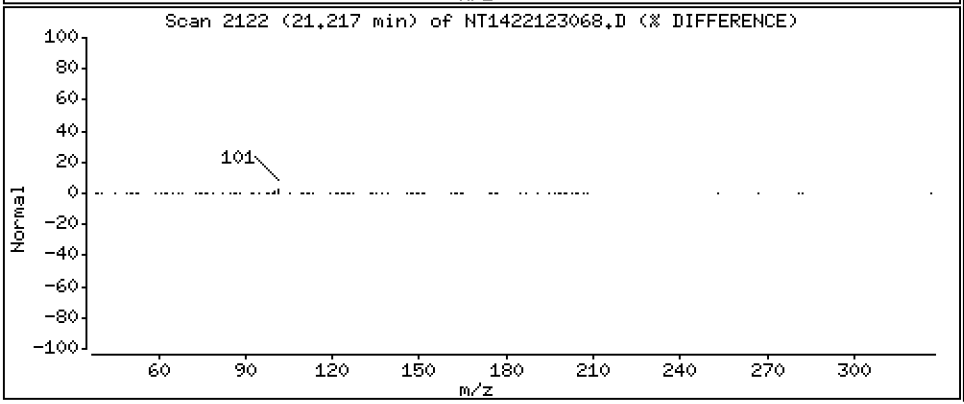
65 Pyrene

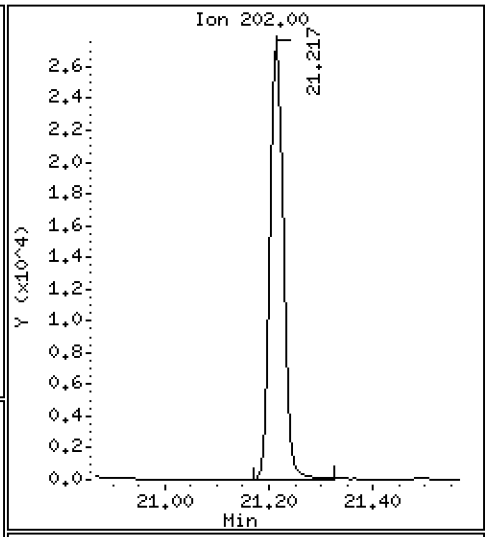
Concentration: 0.4811 ug/mL

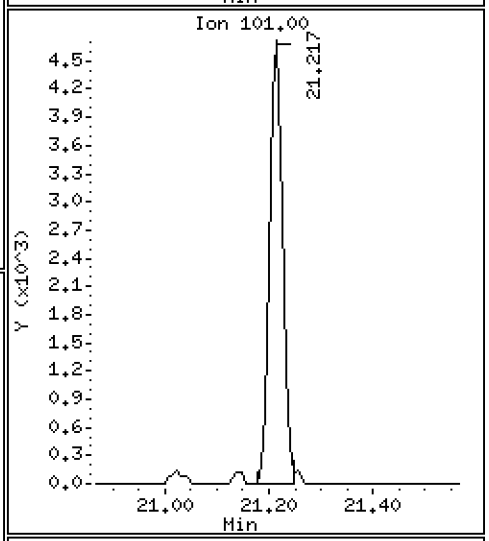


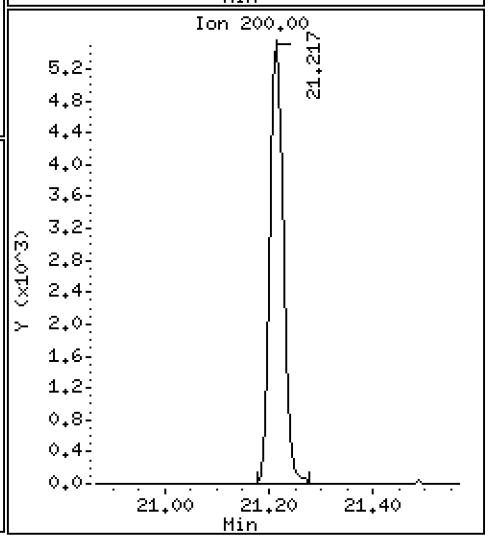












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123068.D

Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

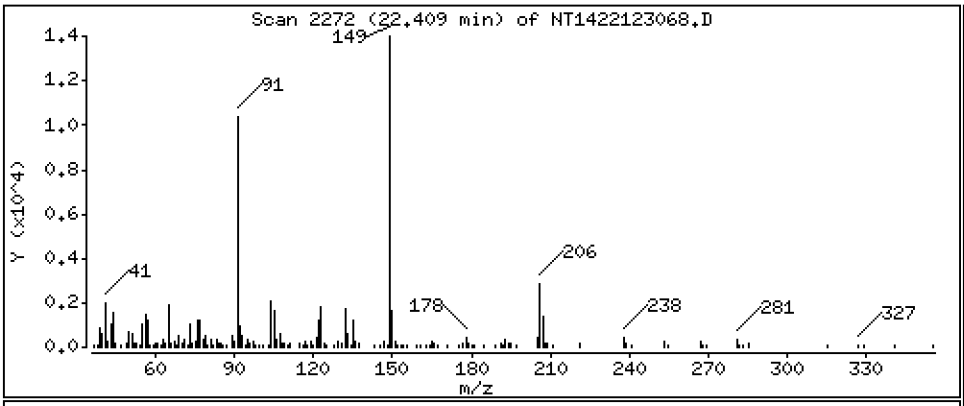
Operator: VTS

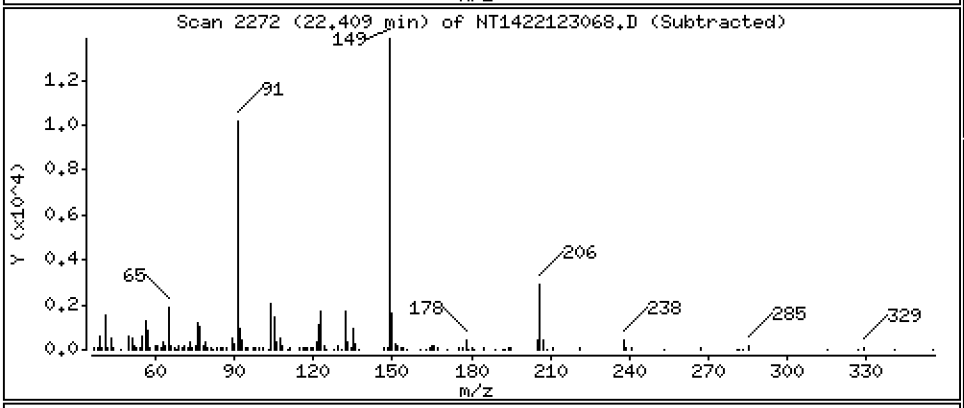
Column phase: ZB-5msi

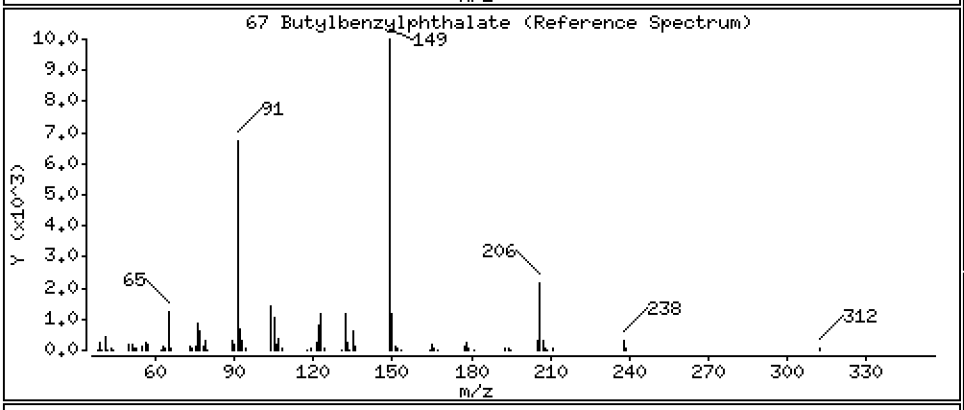
Column diameter: 0.25

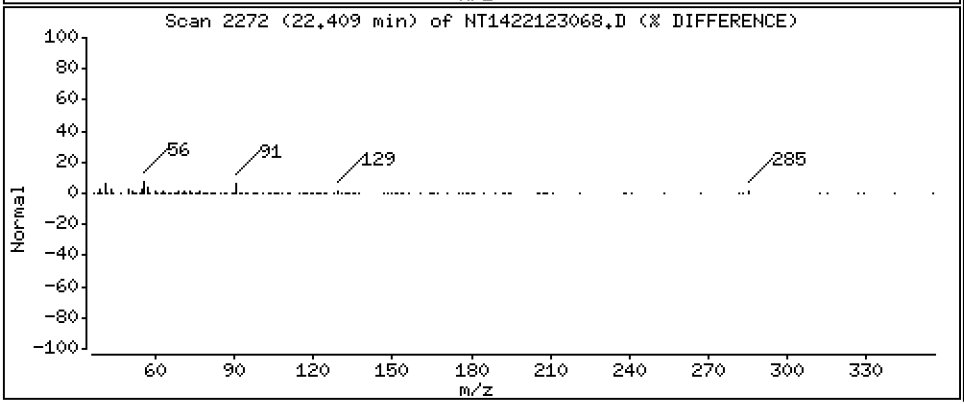
67 Butylbenzylphthalate

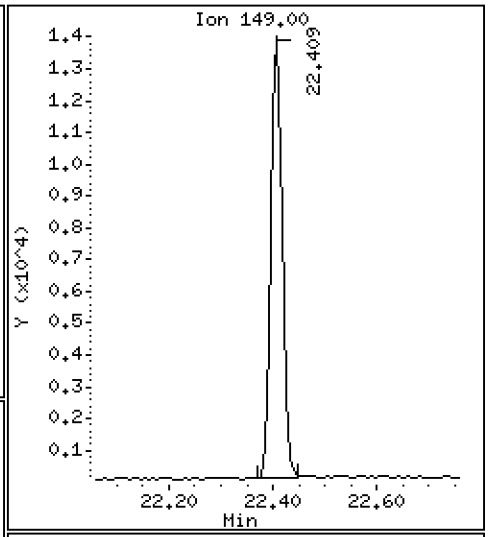
Concentration: 0.5261 ug/mL

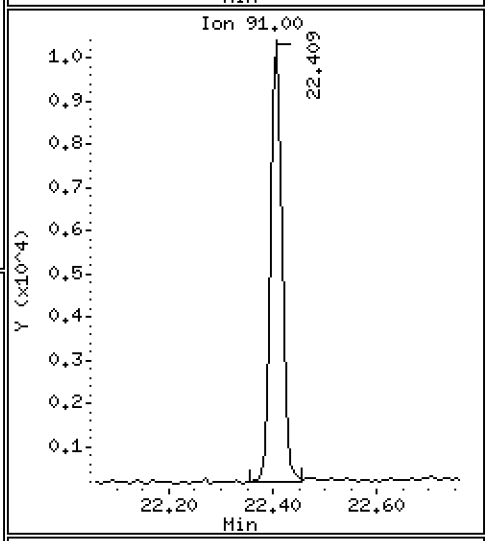


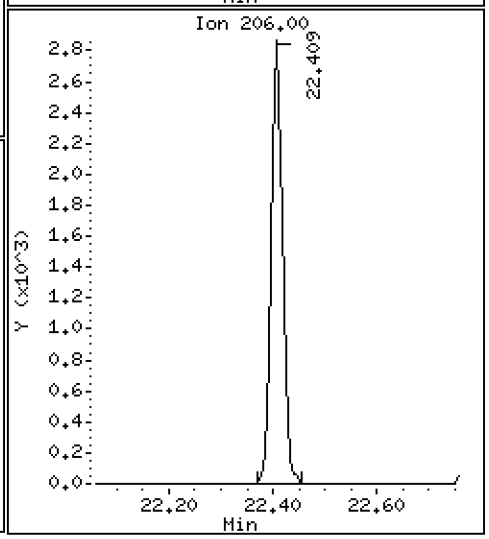












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

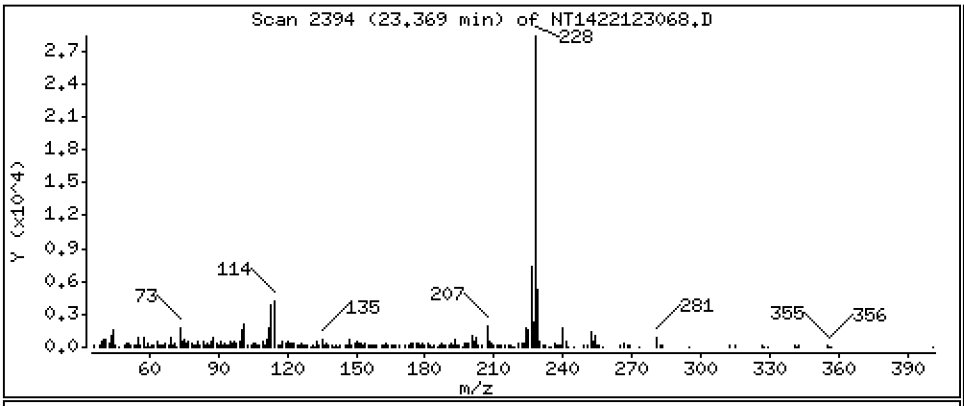
Operator: VTS

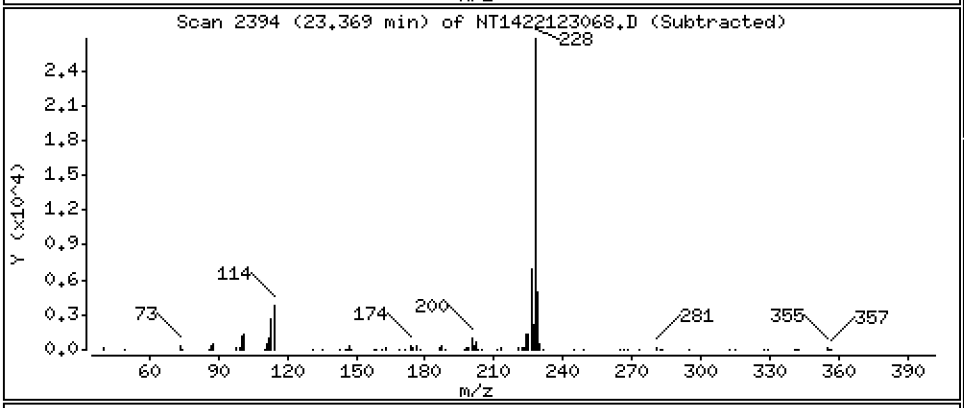
Column phase: ZB-5msi

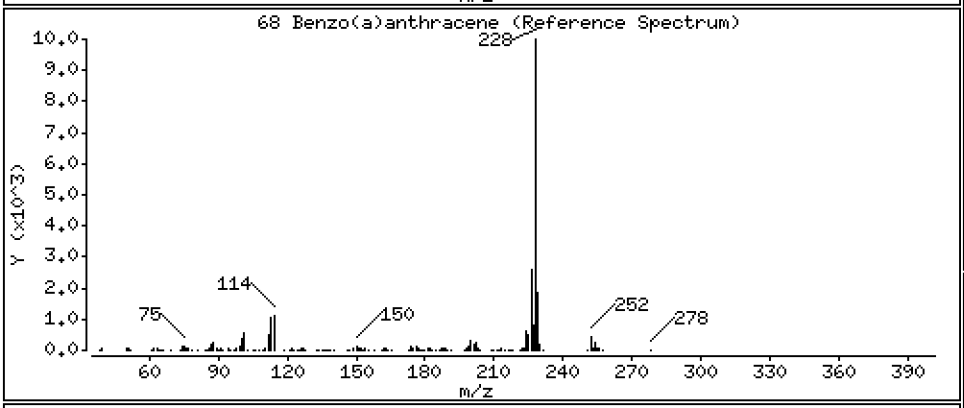
Column diameter: 0.25

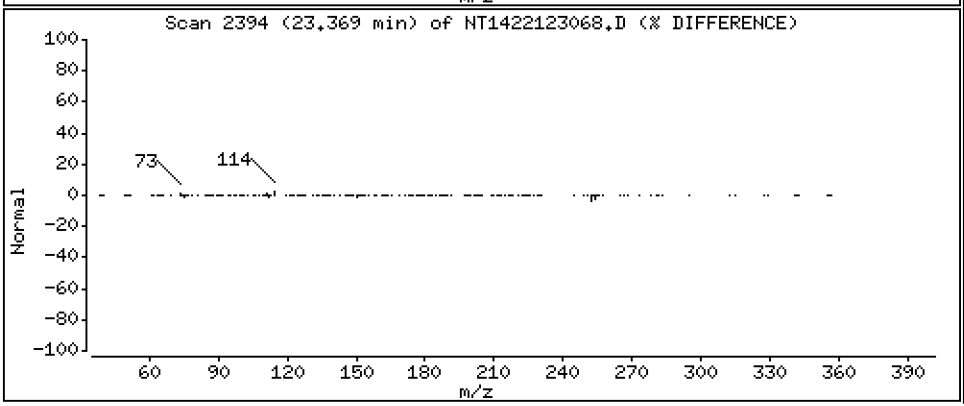
68 Benzo(a)anthracene

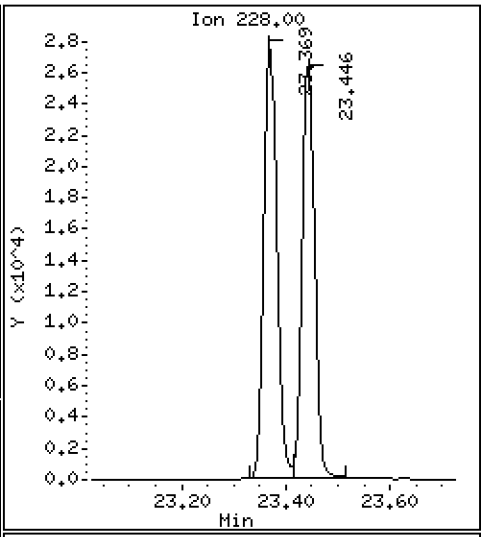
Concentration: 0.5206 ug/mL

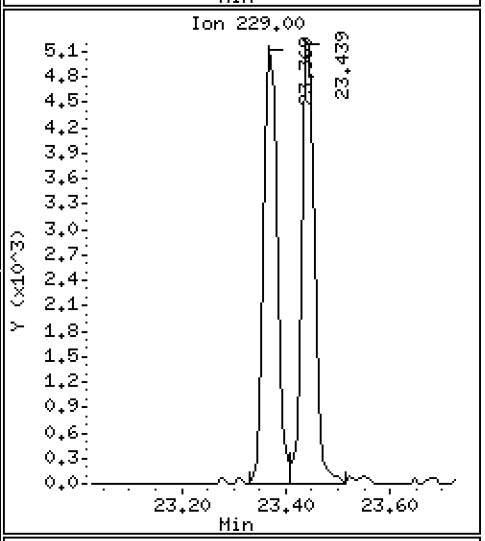


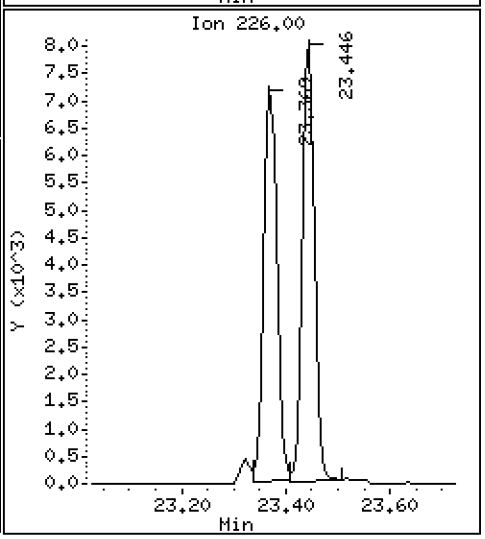












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

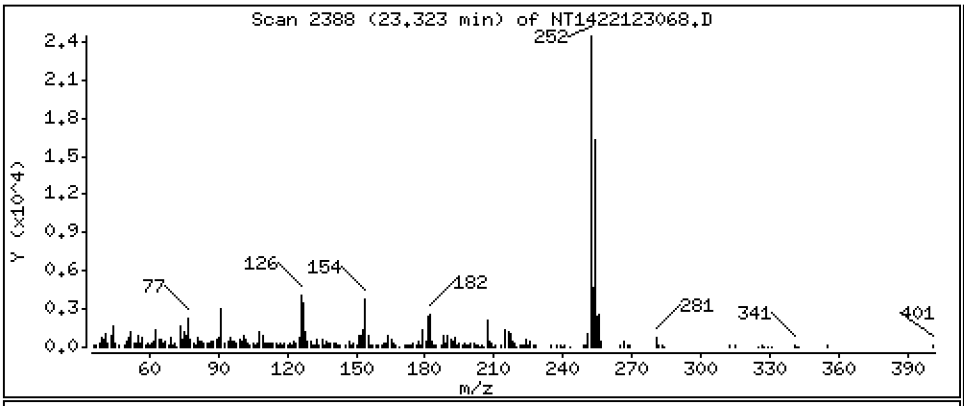
Operator: VTS

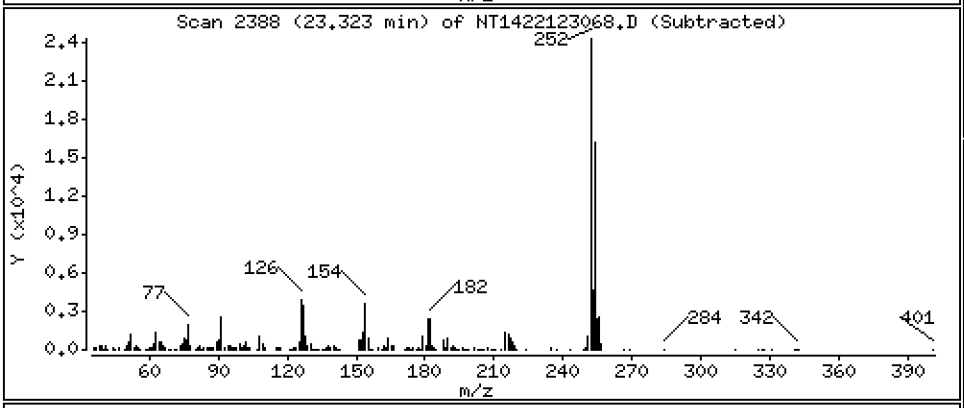
Column phase: ZB-5msi

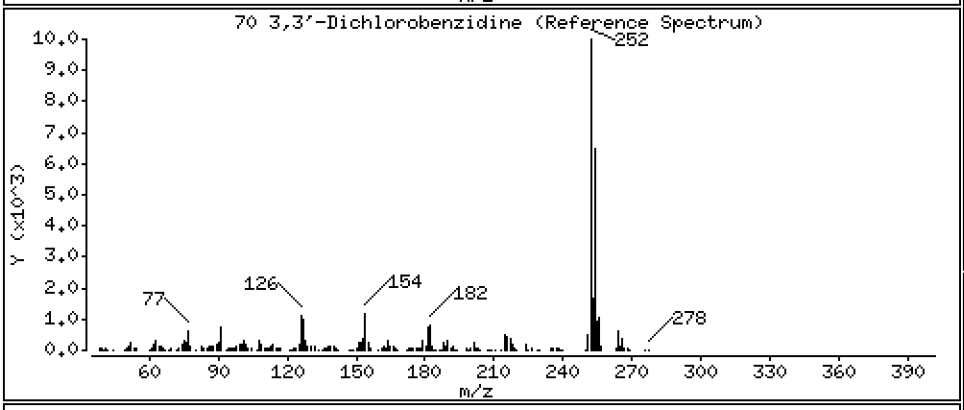
Column diameter: 0.25

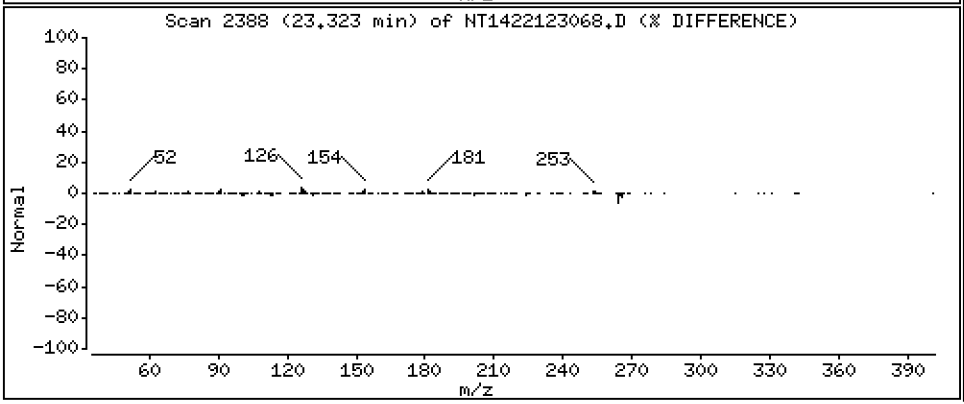
70 3,3'-Dichlorobenzidine

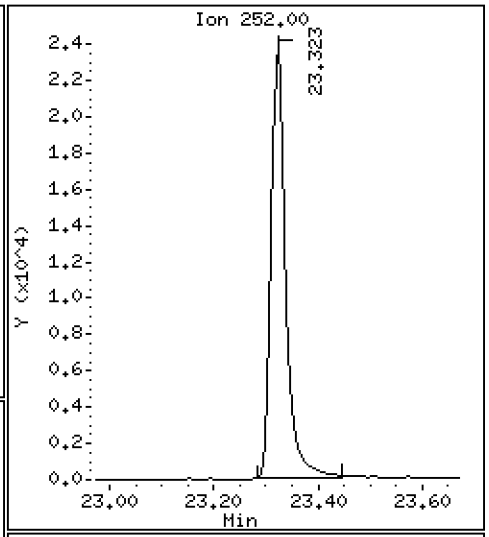
Concentration: 1.641 ug/mL

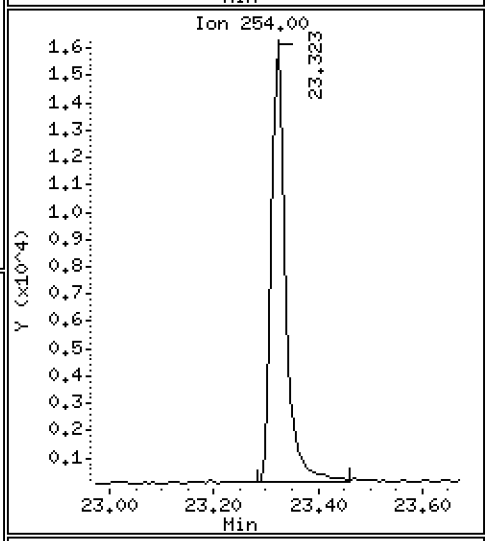


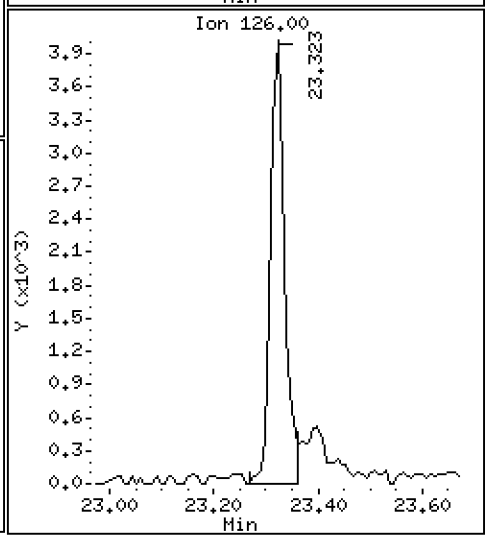












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

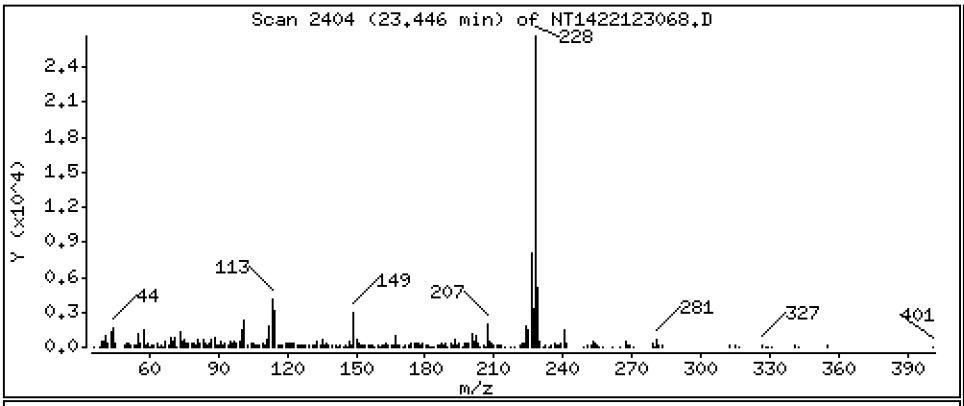
Operator: VTS

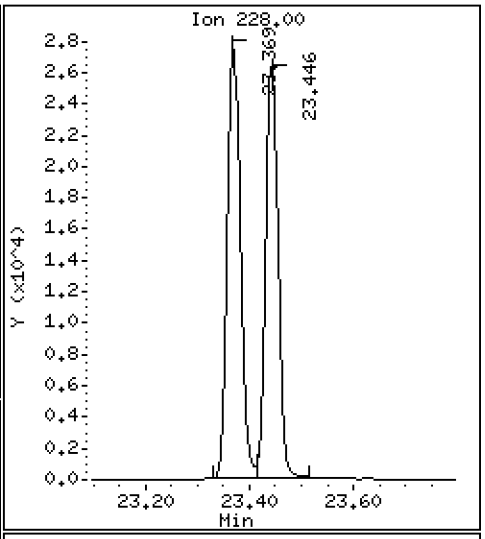
Column phase: ZB-5msi

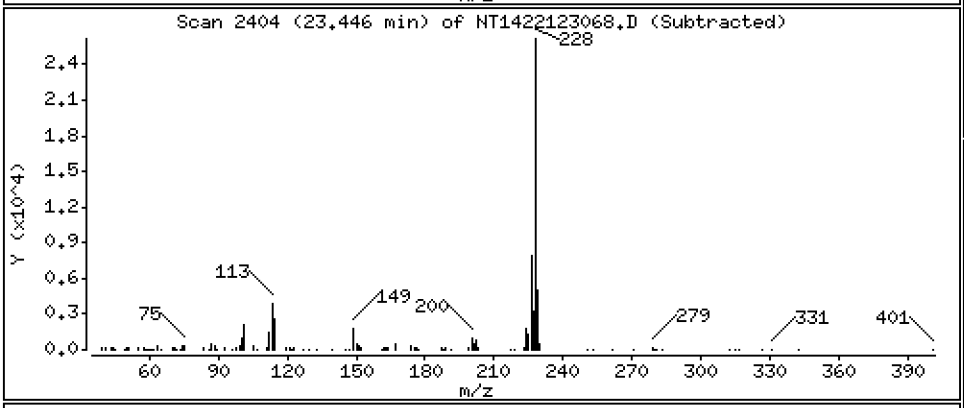
Column diameter: 0.25

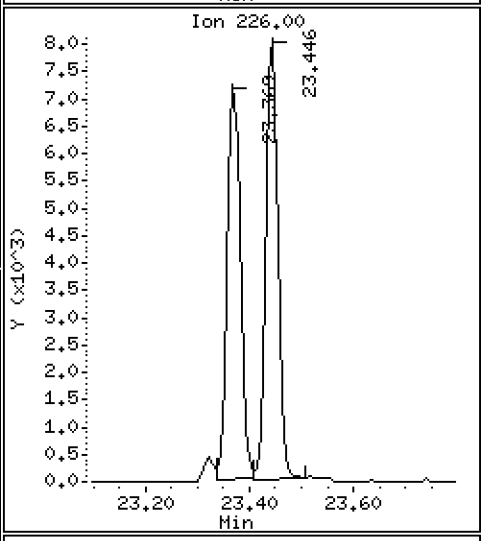
71 Chrysene

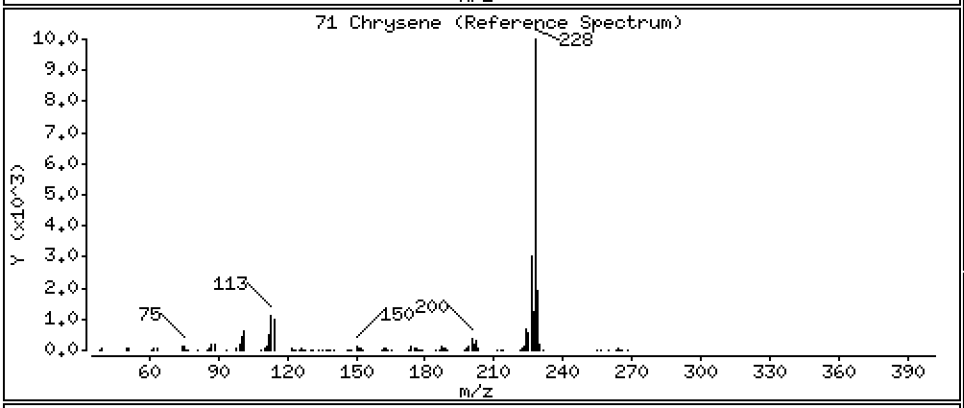
Concentration: 0.5001 ug/mL

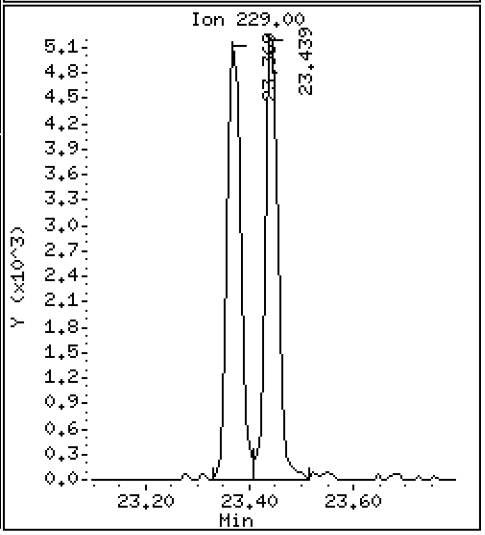


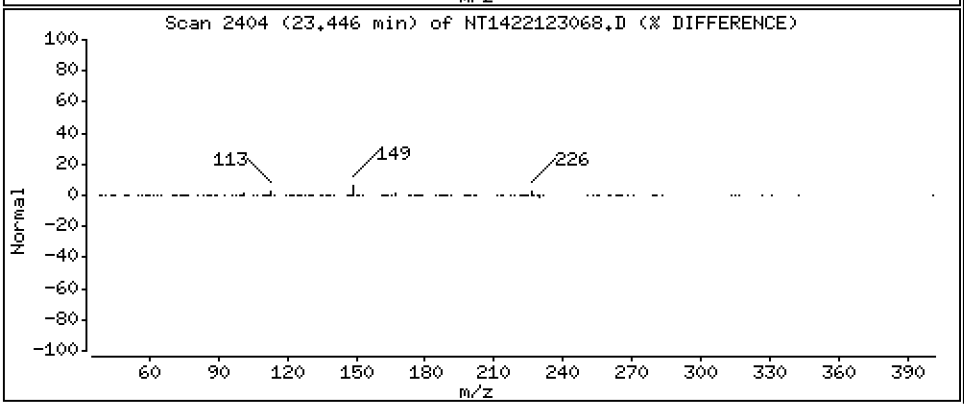












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

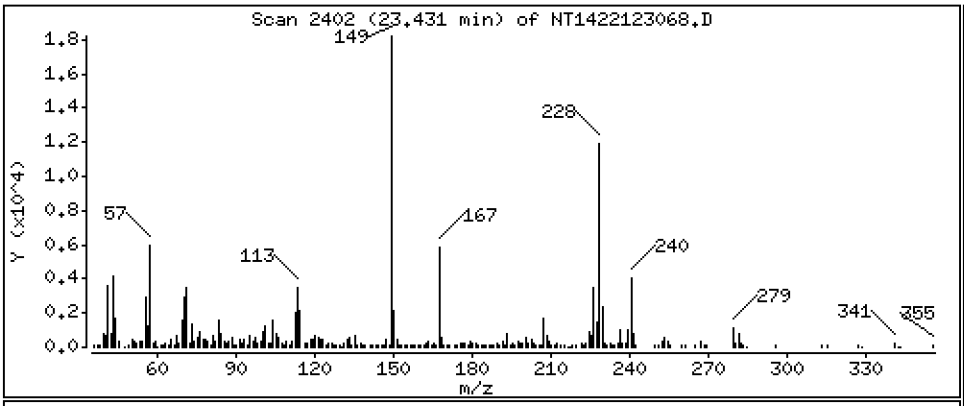
Operator: VTS

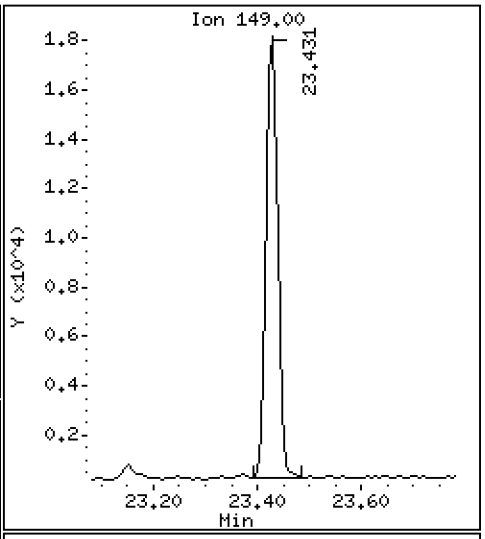
Column phase: ZB-5msi

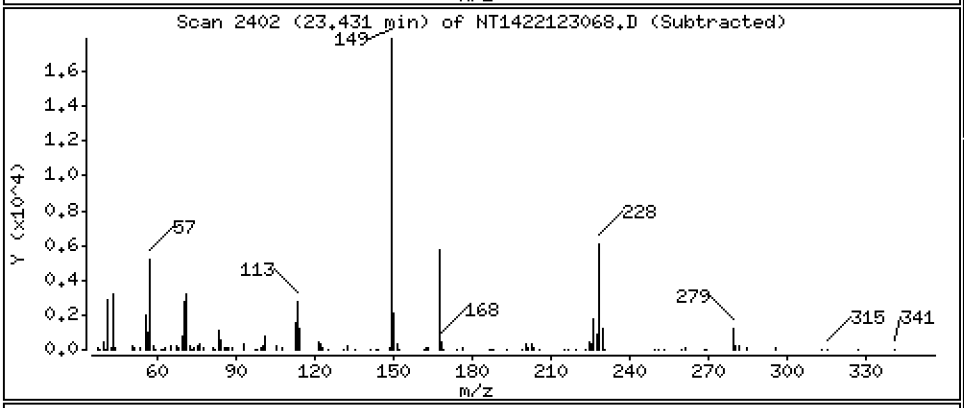
Column diameter: 0.25

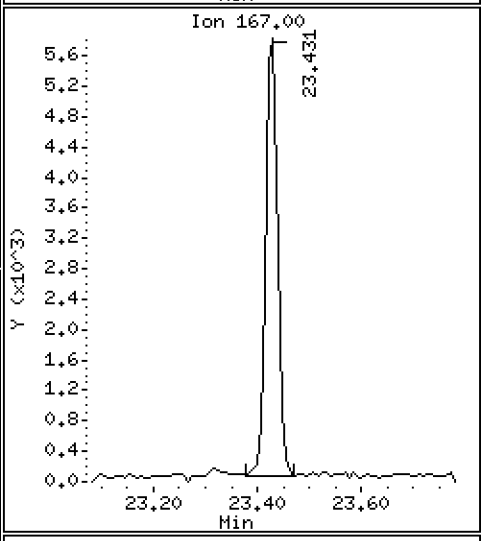
72 bis(2-Ethylhexyl)phthalate

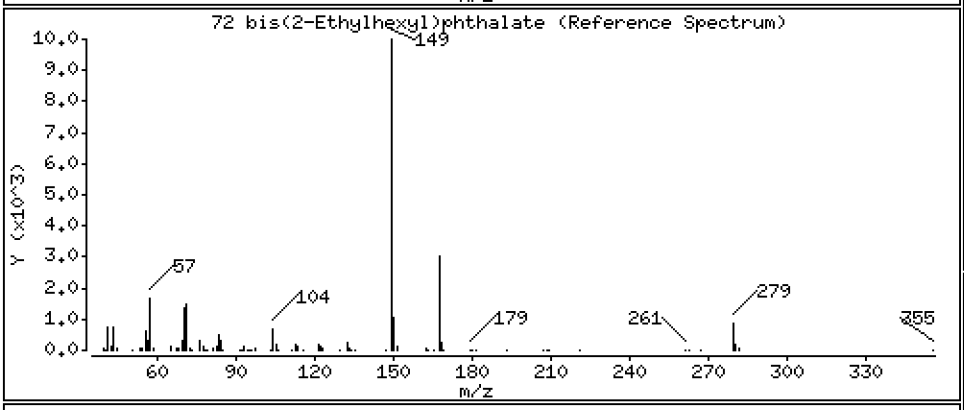
Concentration: 0.5136 ug/mL

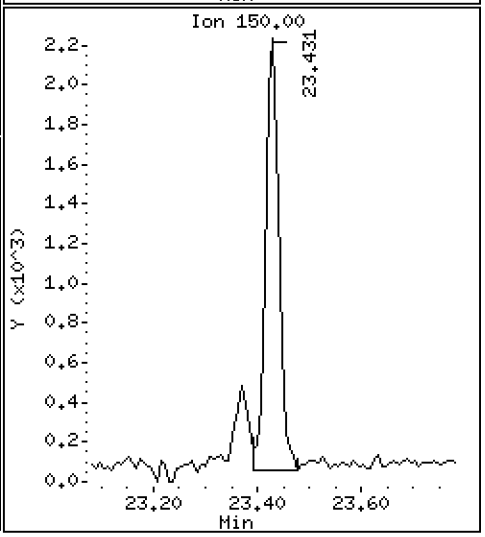


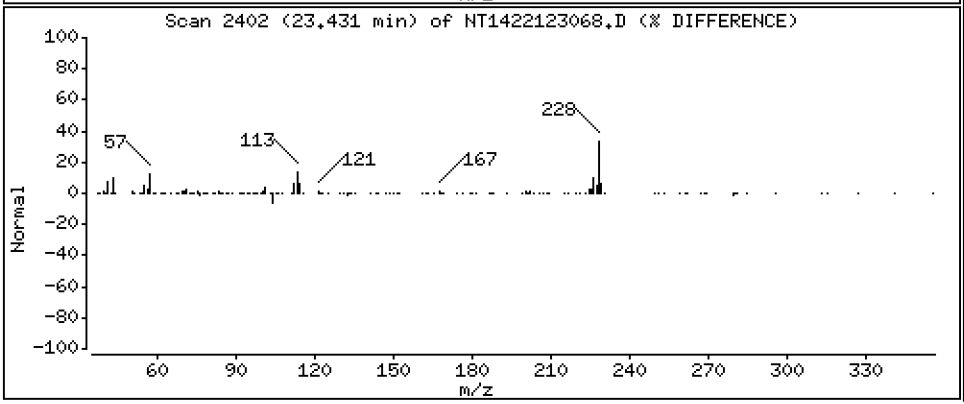












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

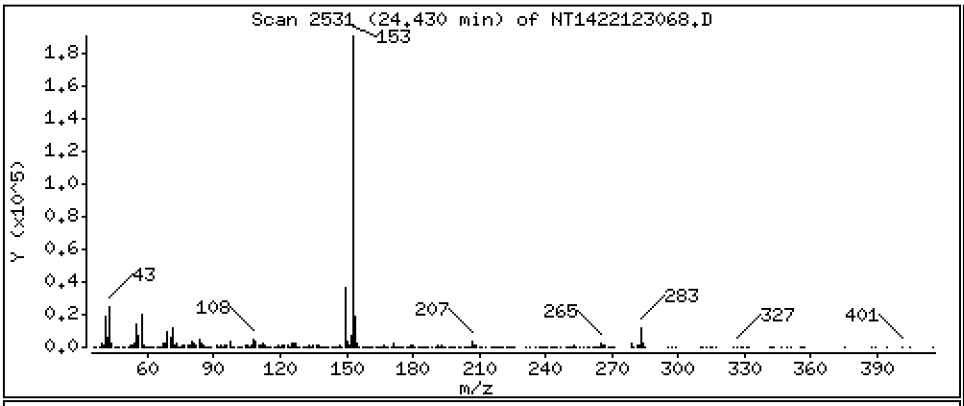
Operator: VTS

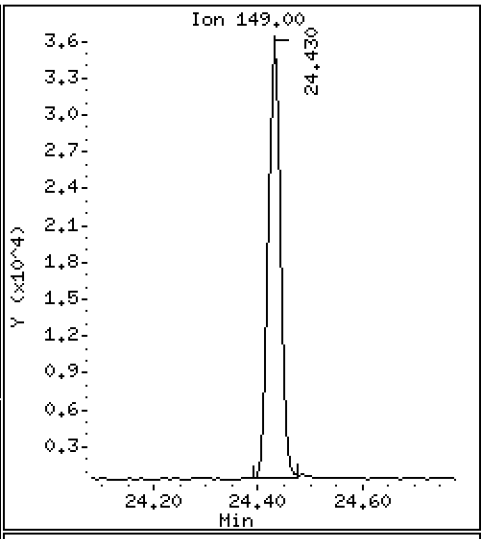
Column phase: ZB-5msi

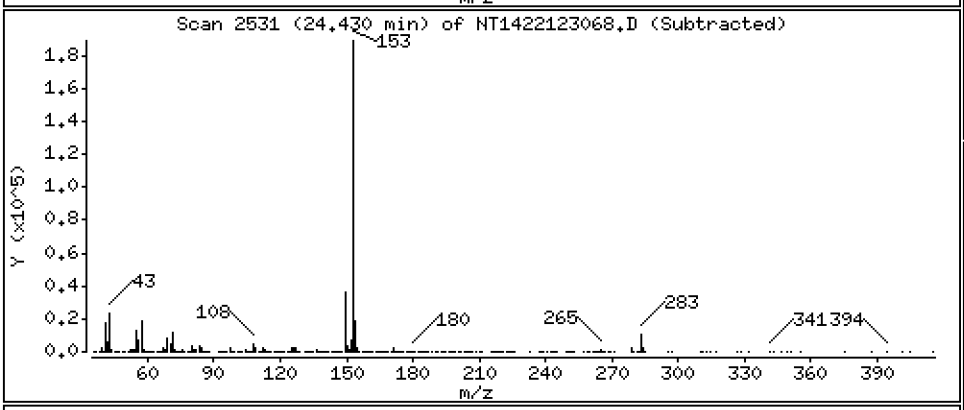
Column diameter: 0.25

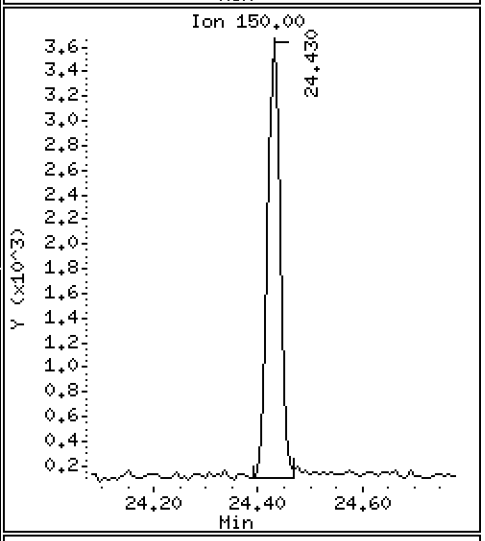
73 Di-n-octylphthalate

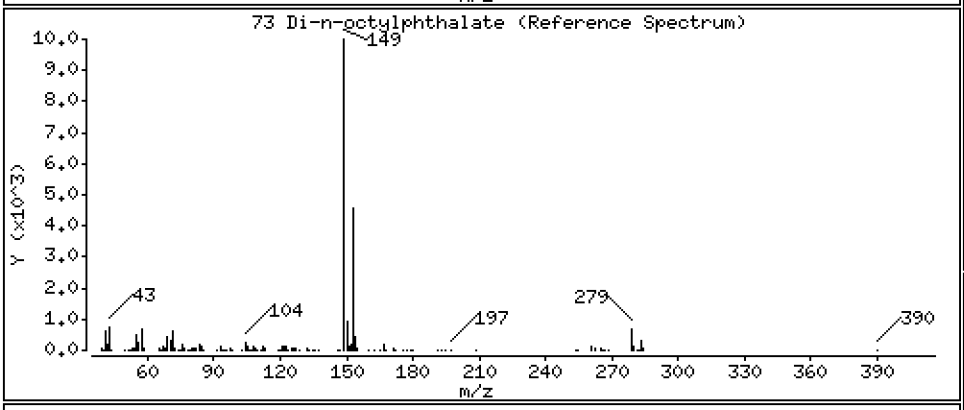
Concentration: 0.4900 ug/mL

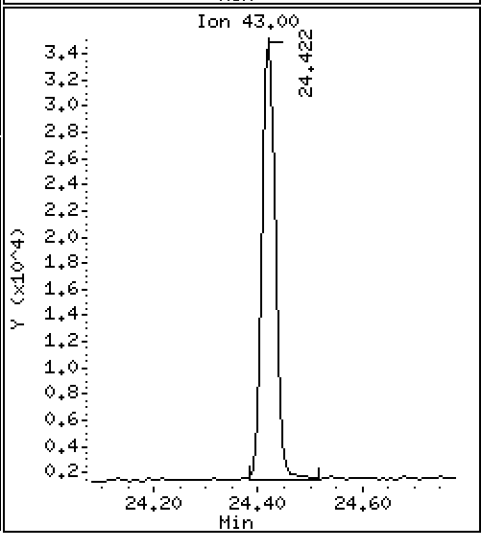


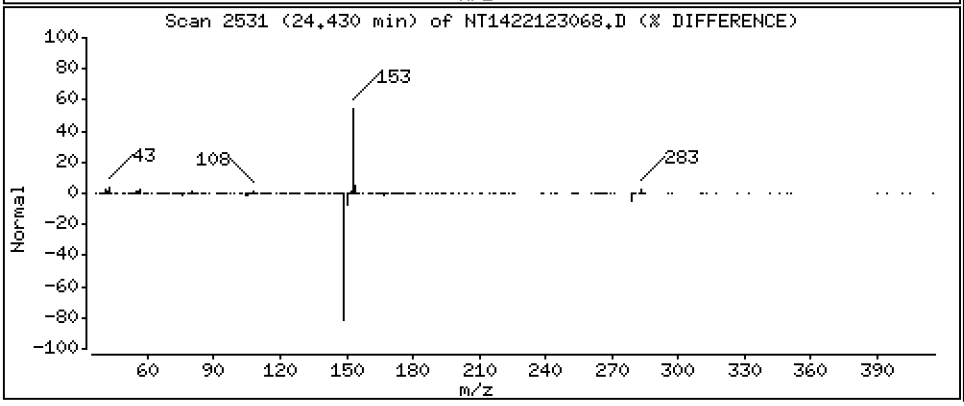












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

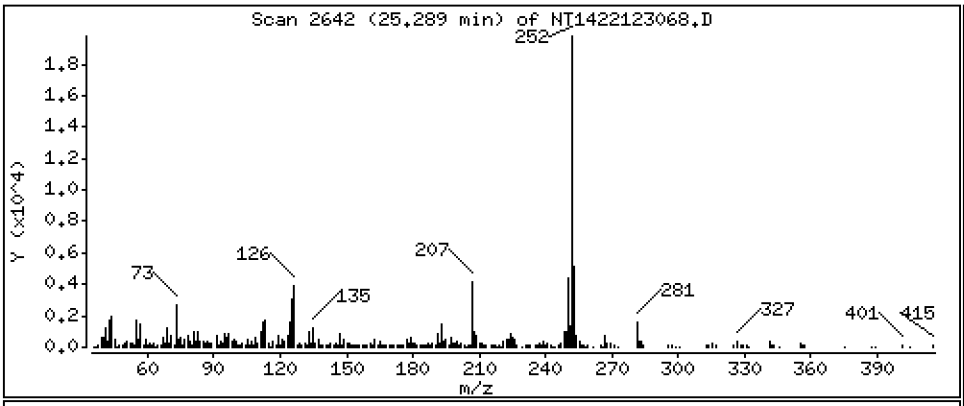
Operator: VTS

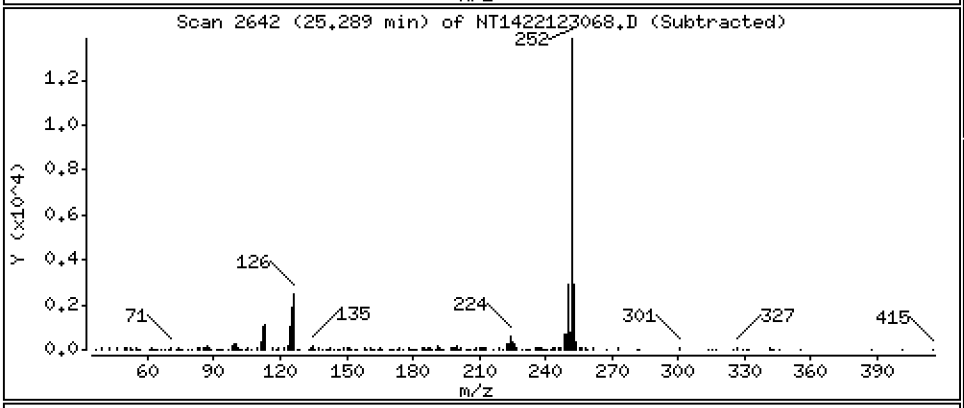
Column phase: ZB-5msi

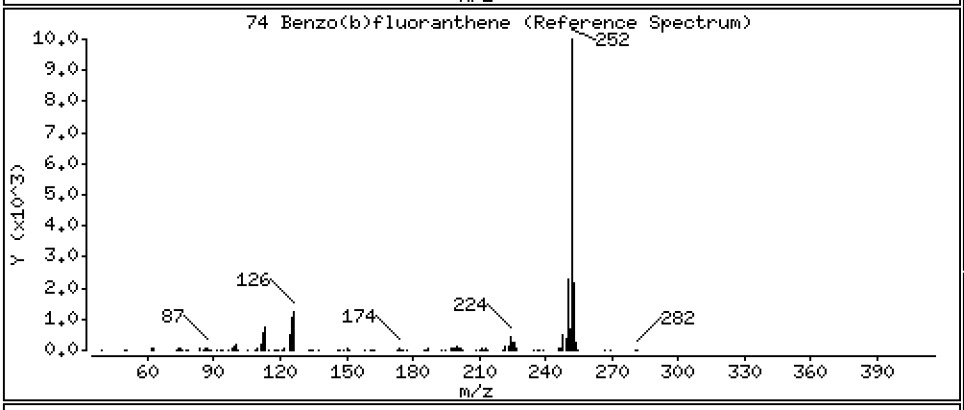
Column diameter: 0.25

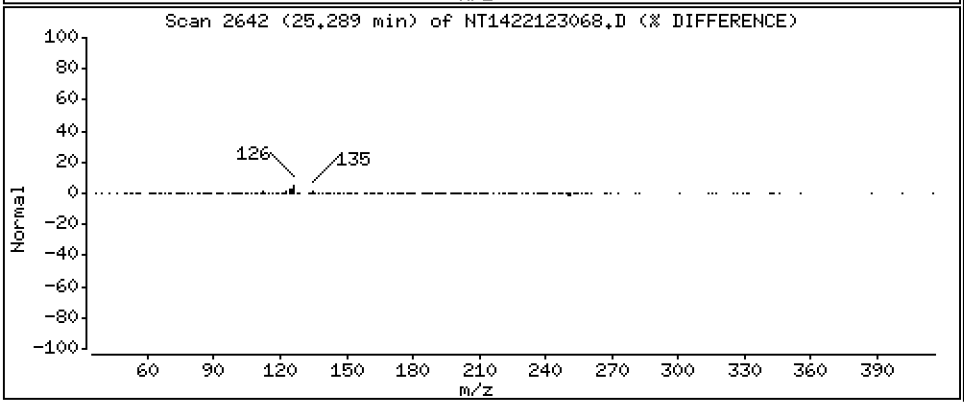
74 Benzo(b)fluoranthene

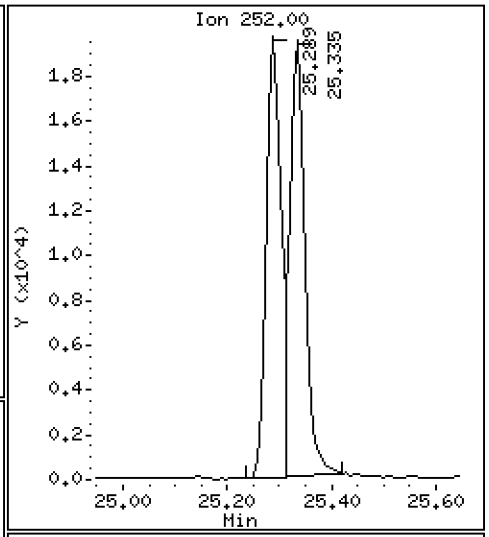
Concentration: 0.5437 ug/mL

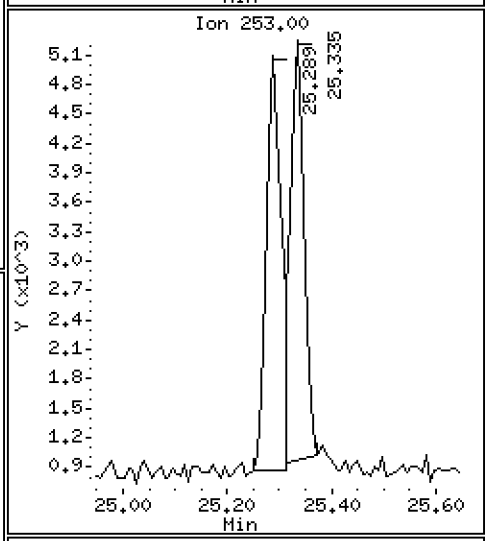


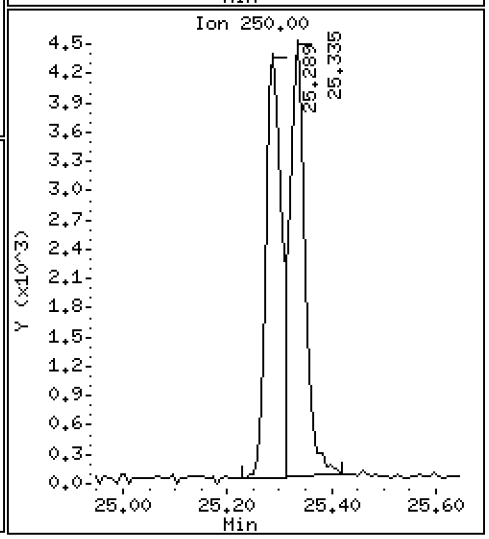












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

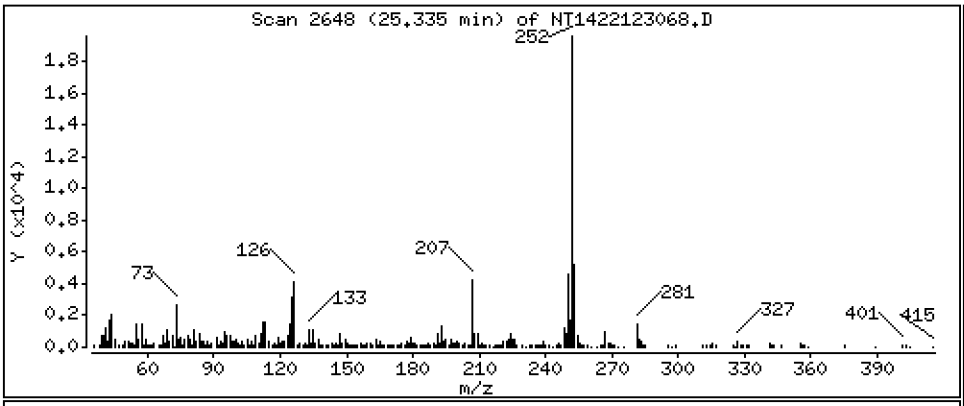
Operator: VTS

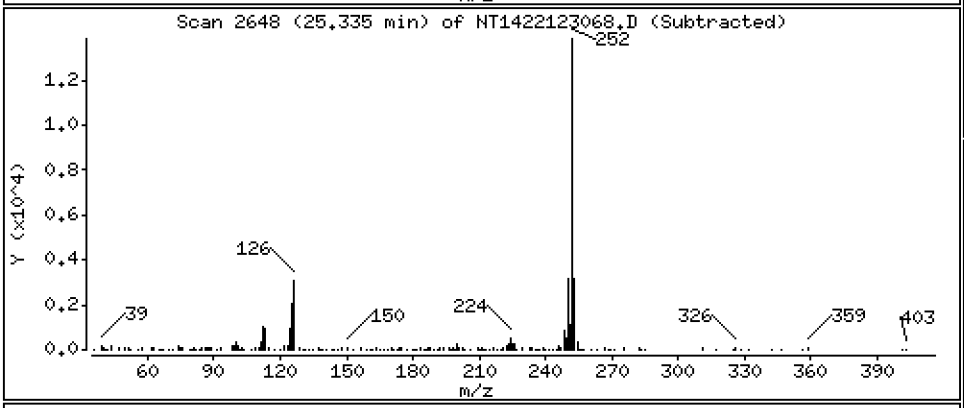
Column phase: ZB-5msi

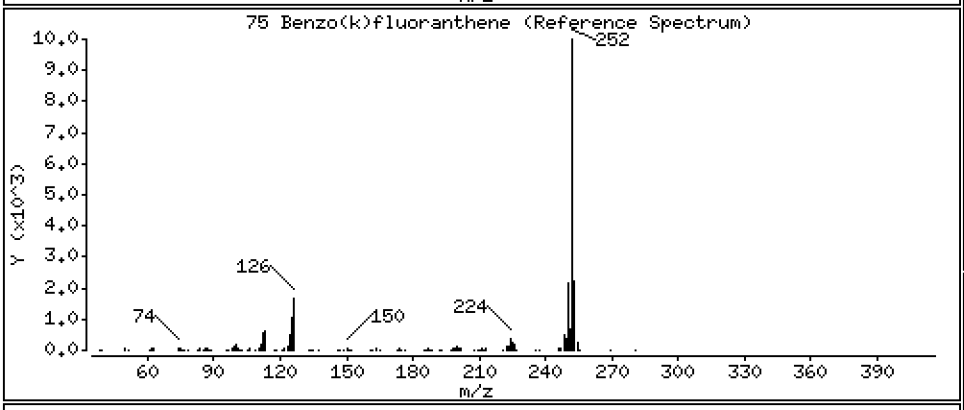
Column diameter: 0.25

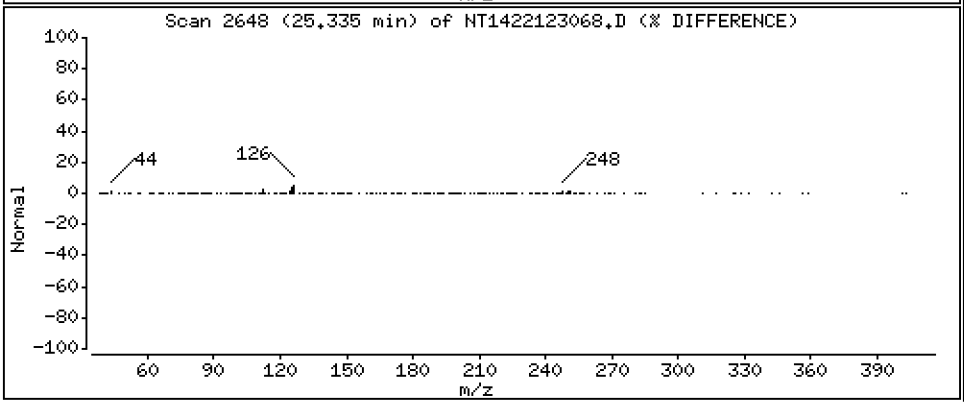
75 Benzo(k)fluoranthene

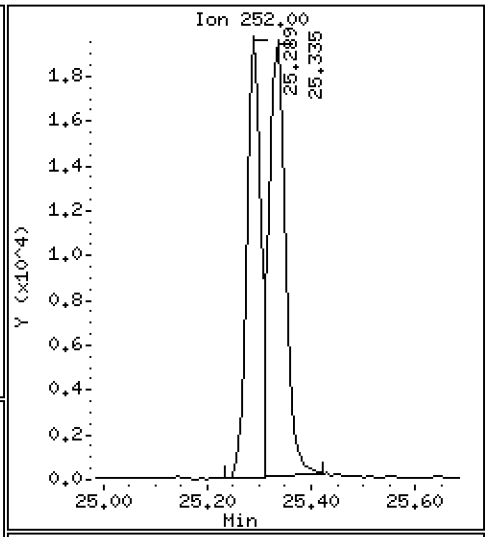
Concentration: 0.5702 ug/mL

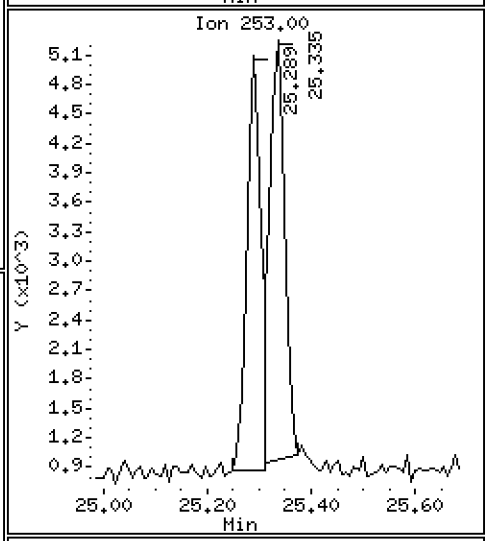


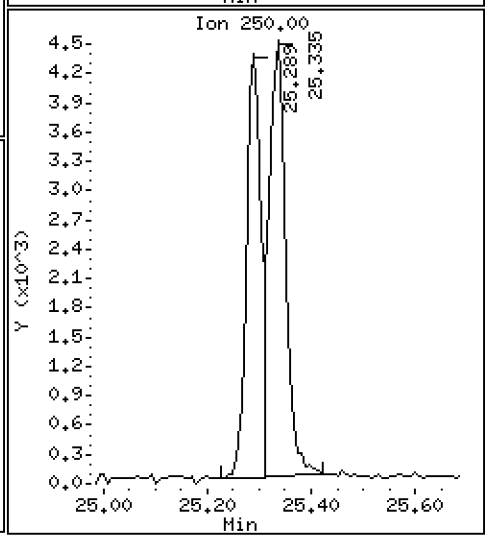












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

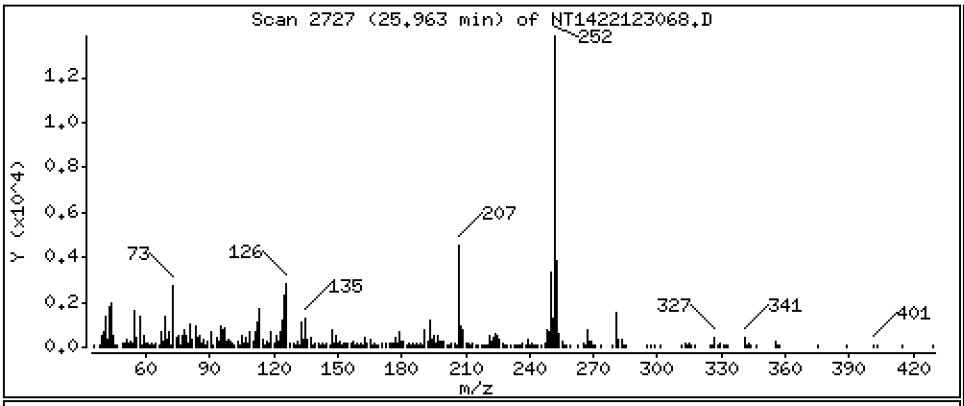
Operator: VTS

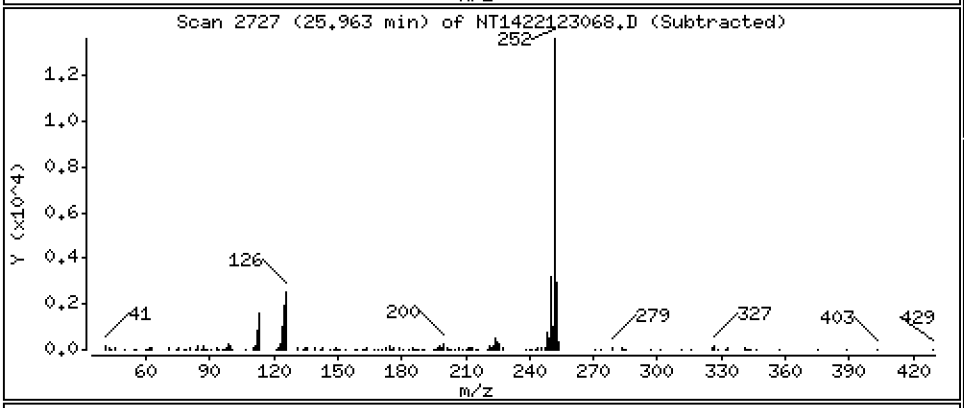
Column phase: ZB-5msi

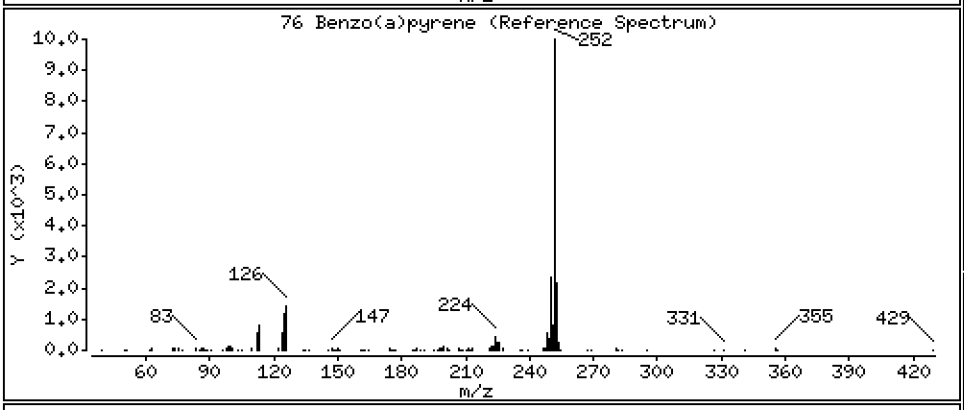
Column diameter: 0.25

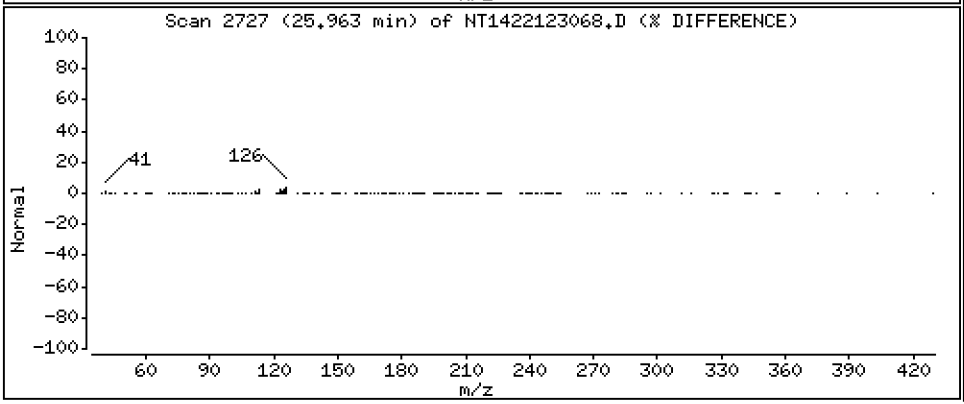
76 Benzo(a)pyrene

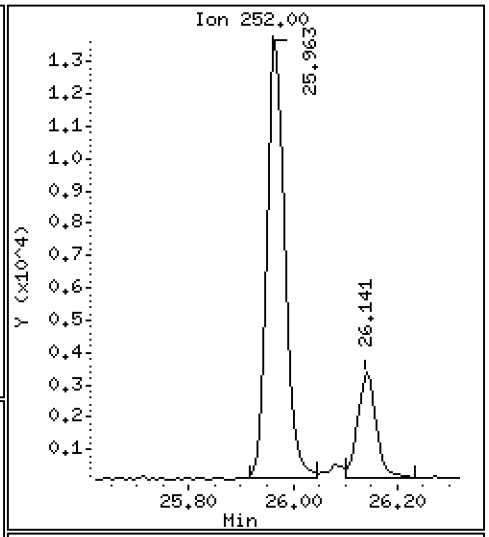
Concentration: 0.5296 ug/mL

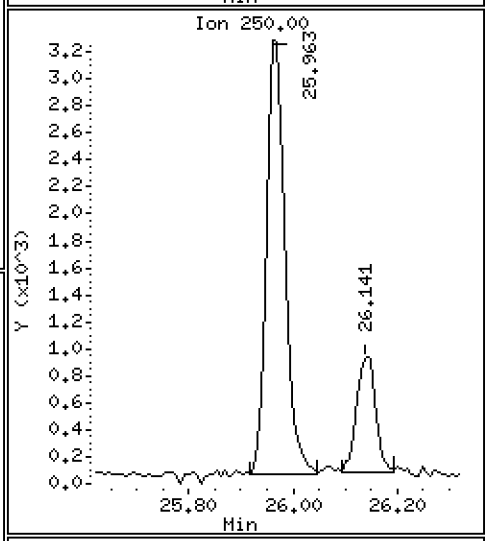


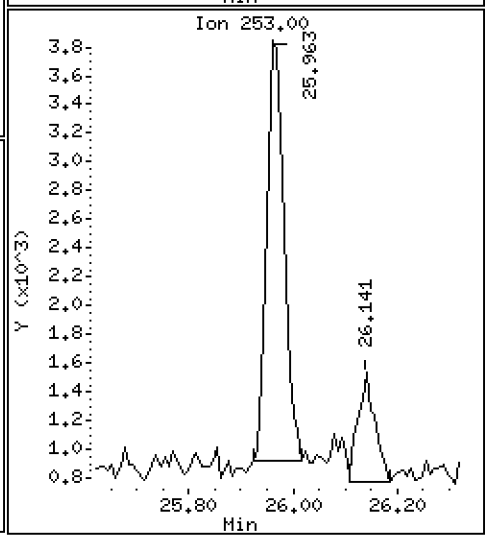












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

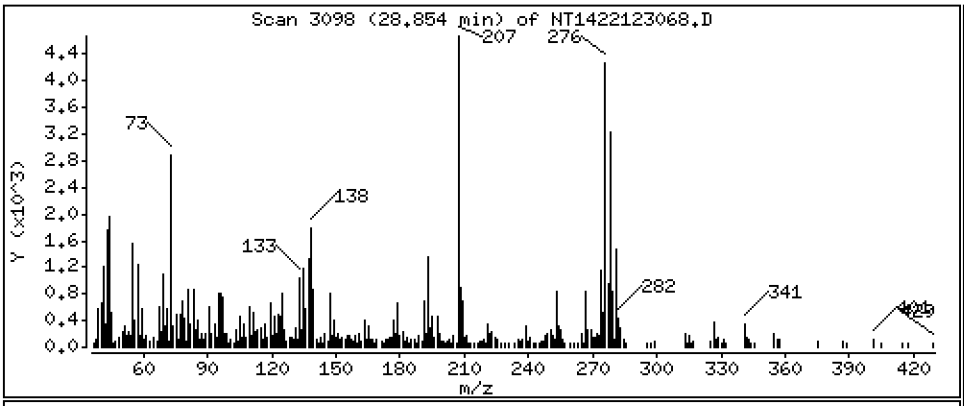
Operator: VTS

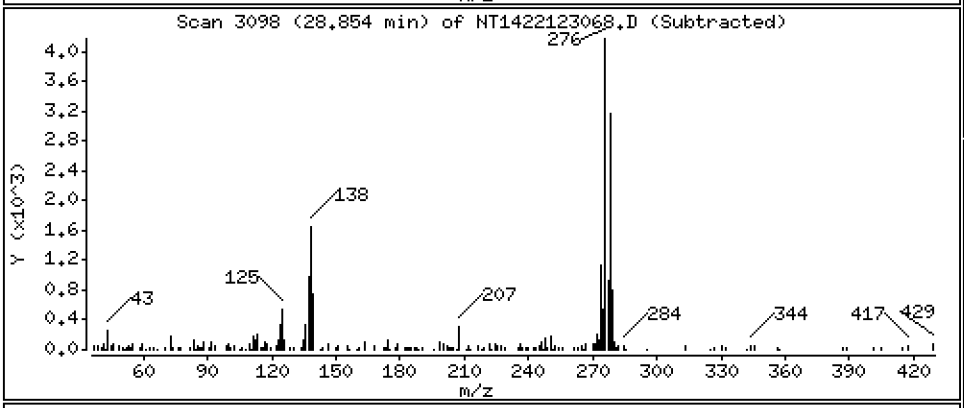
Column phase: ZB-5msi

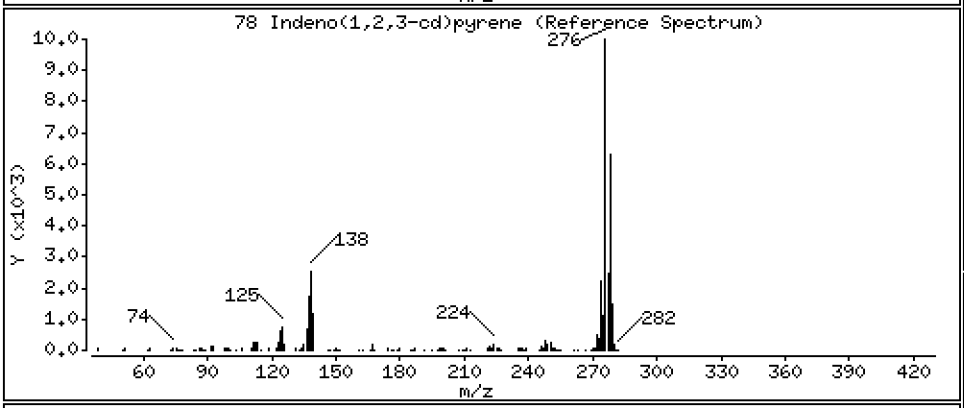
Column diameter: 0.25

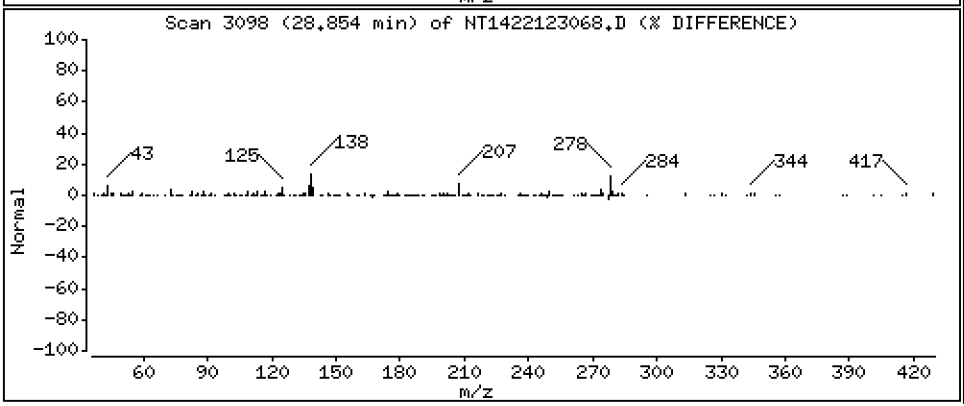
78 Indeno(1,2,3-cd)pyrene

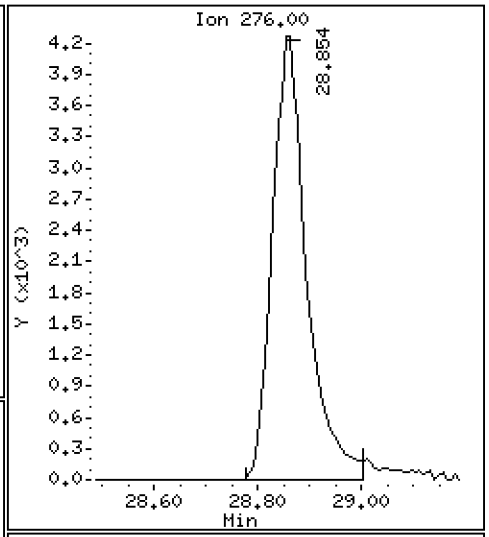
Concentration: 0.2876 ug/mL

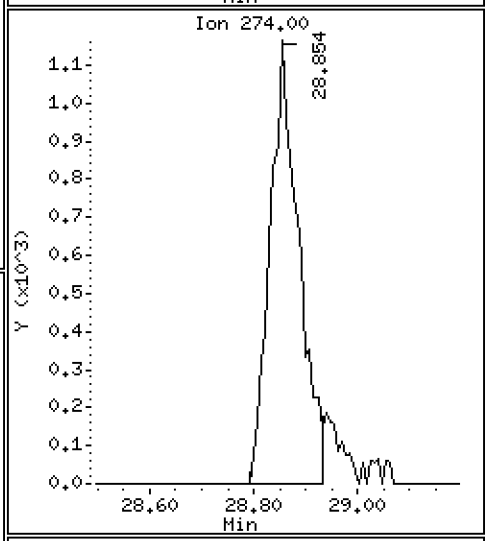


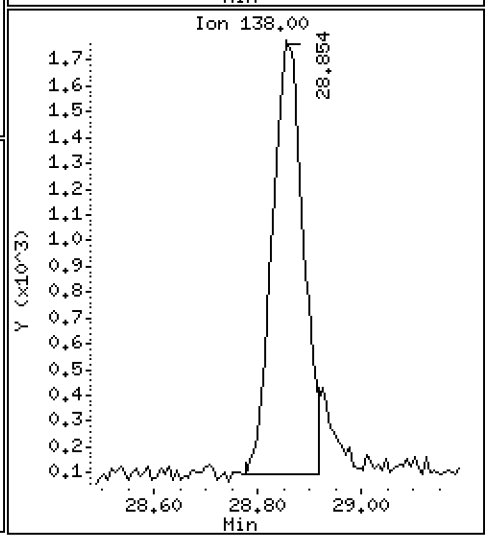












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

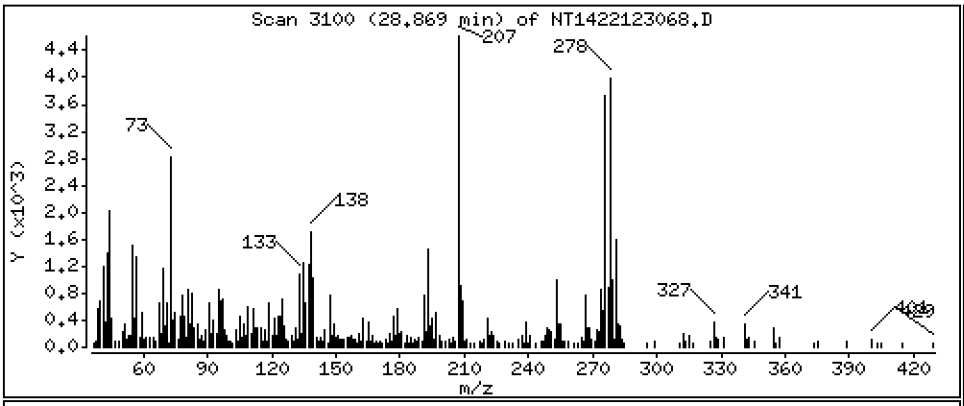
Operator: VTS

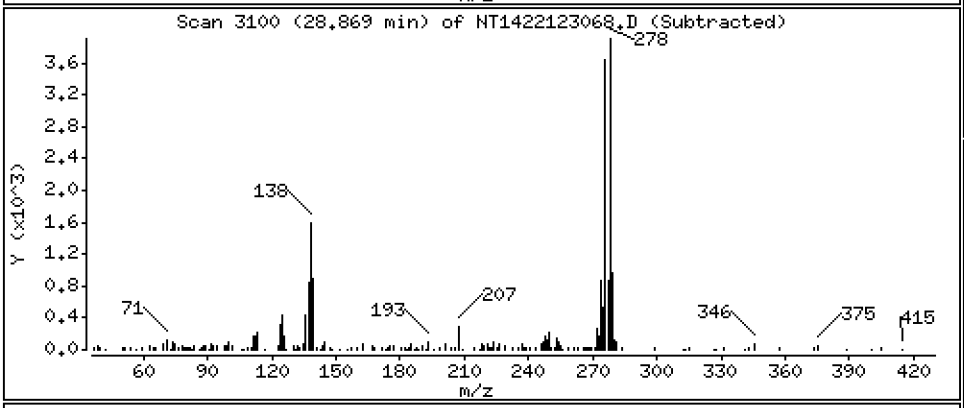
Column phase: ZB-5msi

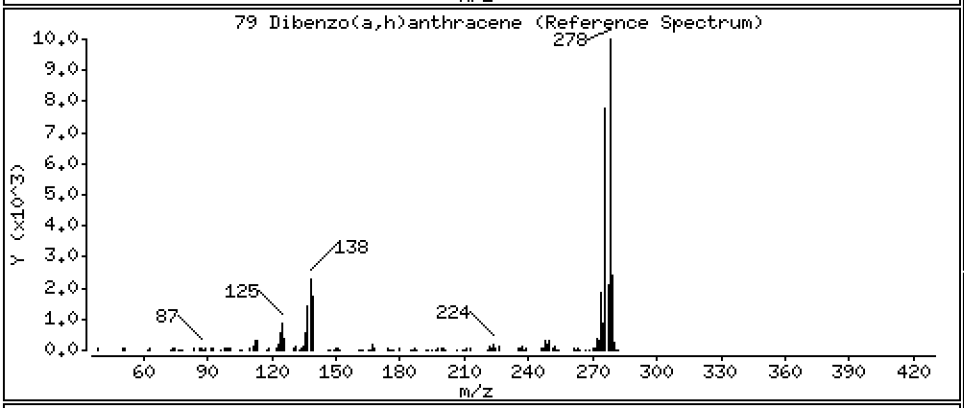
Column diameter: 0.25

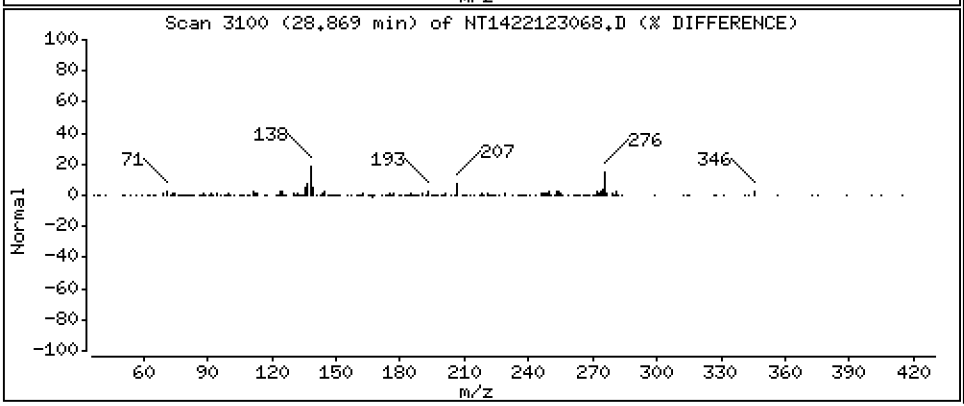
79 Dibenzo(a,h)anthracene

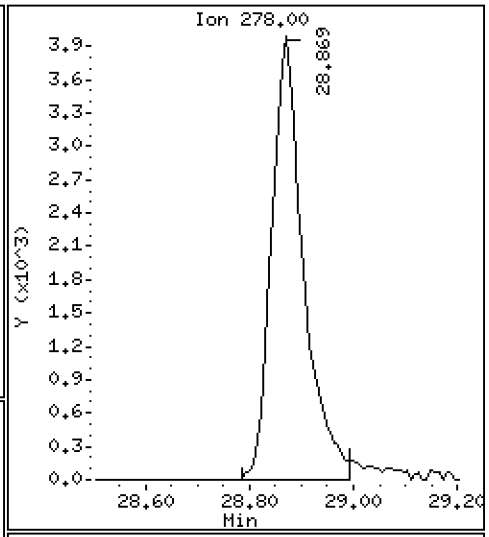
Concentration: 0.2950 ug/mL

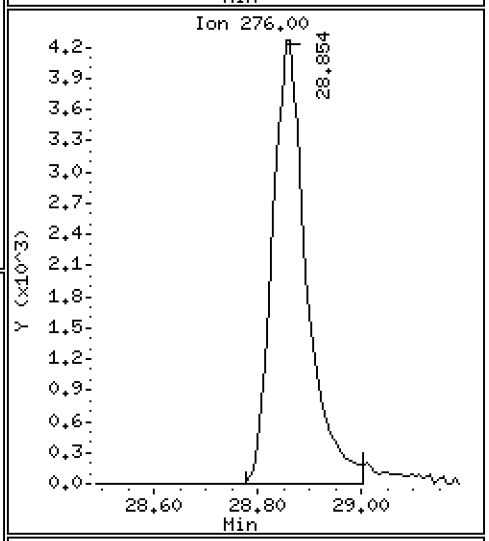


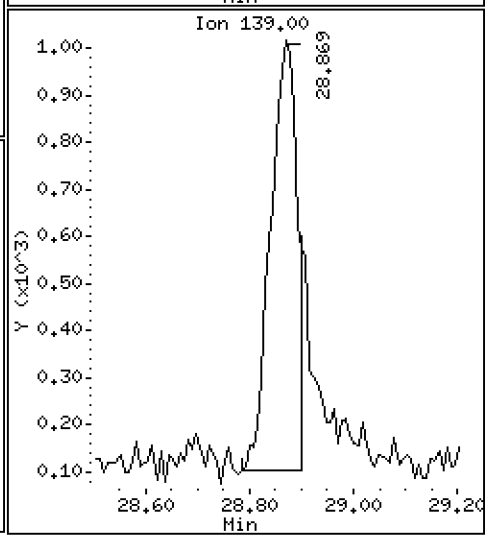












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

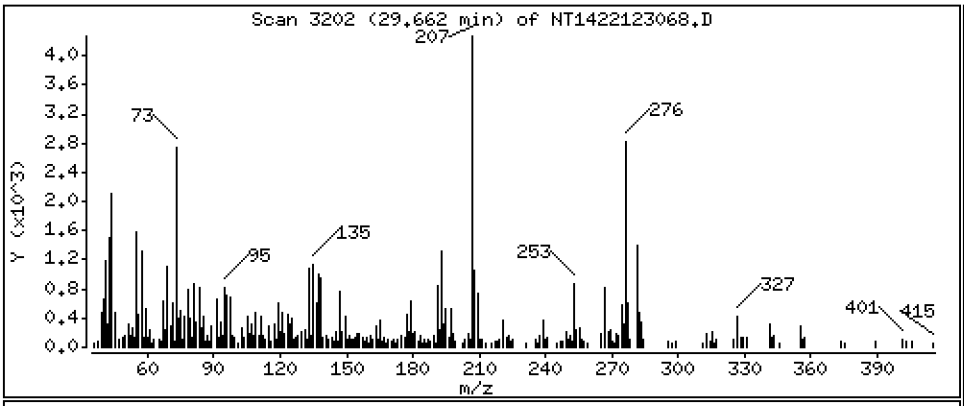
Operator: VTS

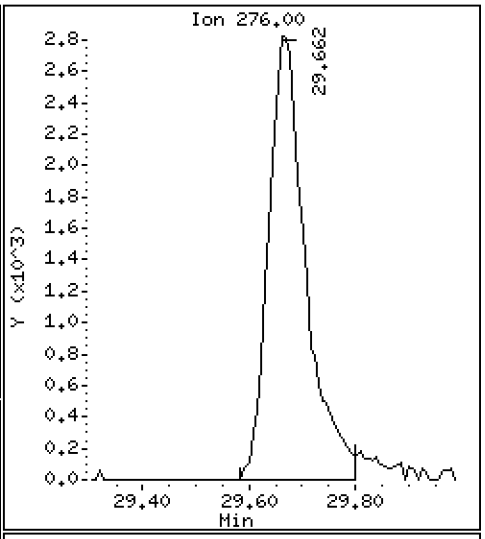
Column phase: ZB-5msi

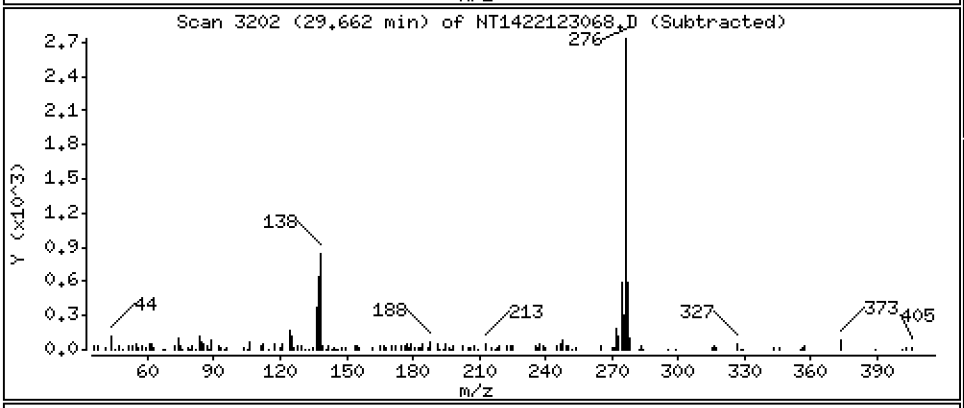
Column diameter: 0.25

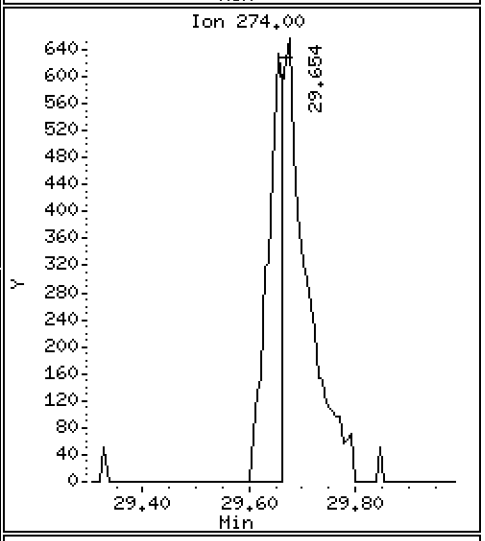
80 Benzo(g,h,i)perylene

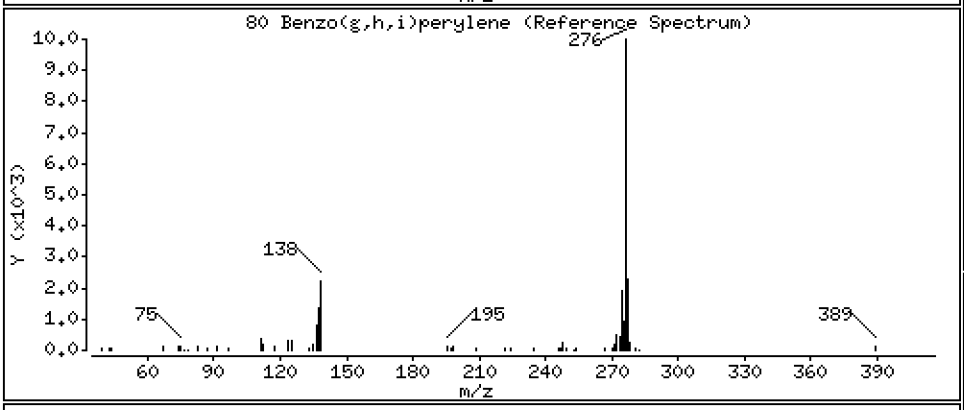
Concentration: 0.2408 ug/mL

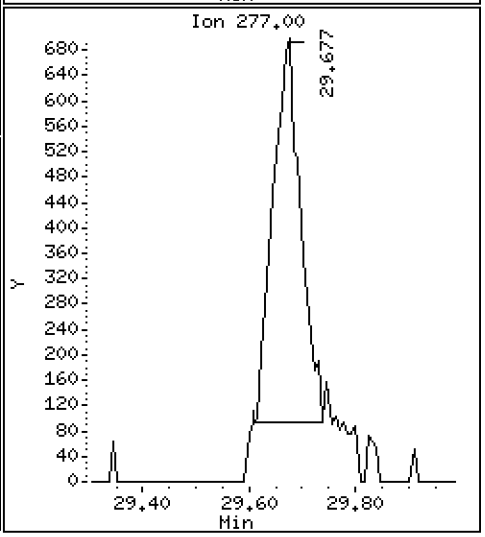


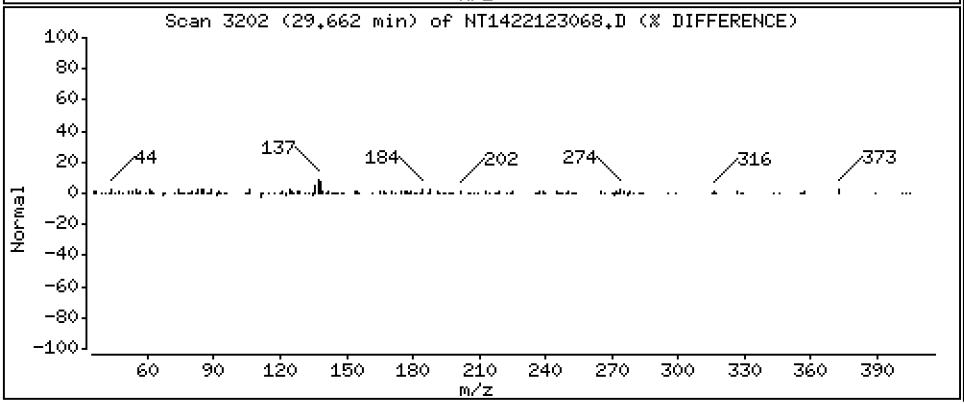












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

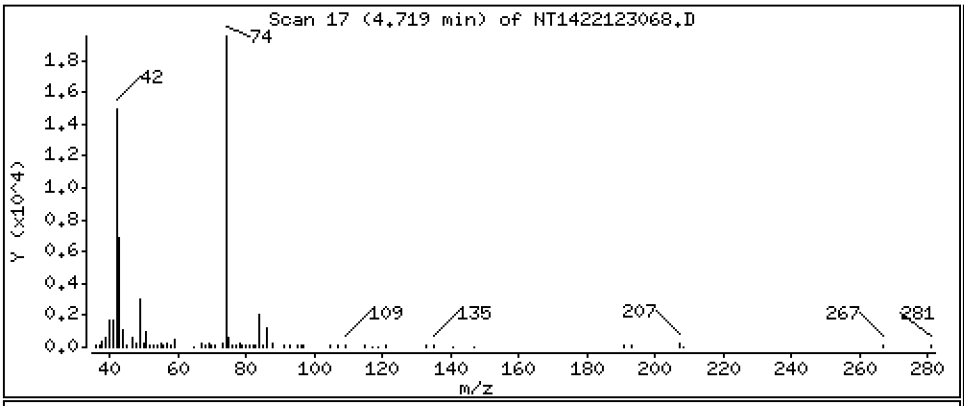
Operator: VTS

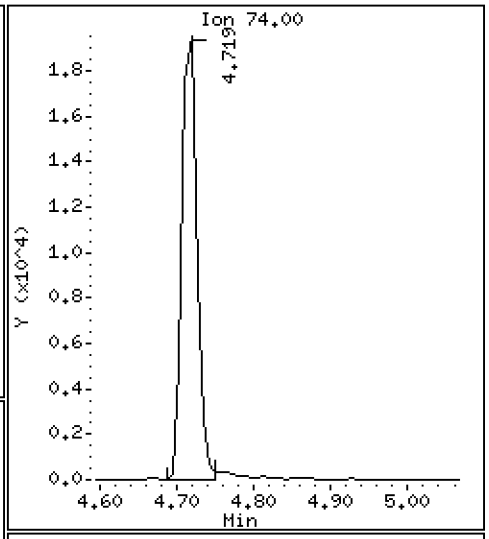
Column phase: ZB-5msi

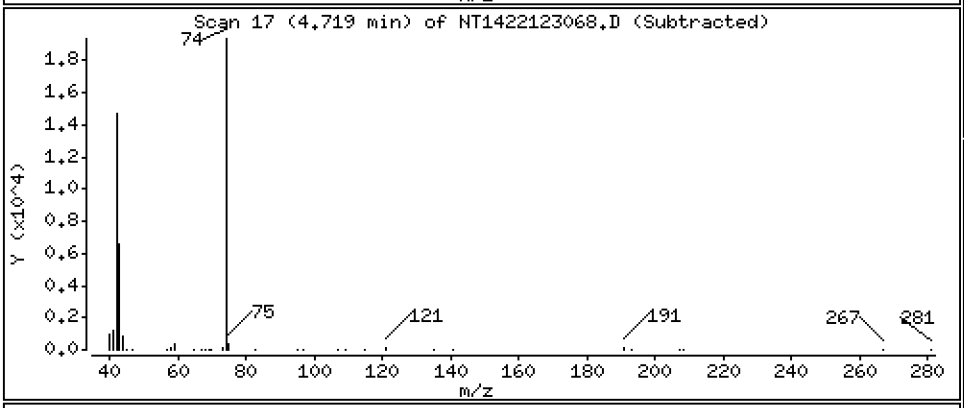
Column diameter: 0.25

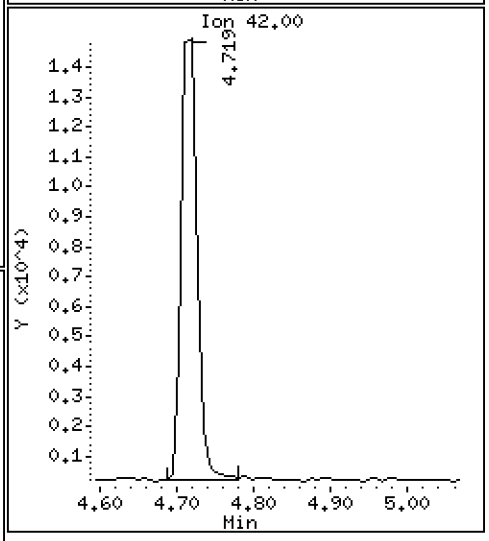
90 N-Nitrosodimethylamine

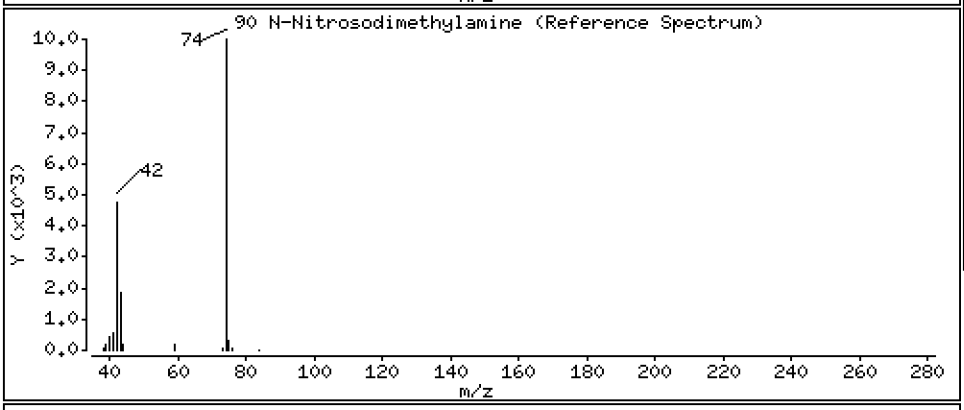
Concentration: 1.011 ug/mL

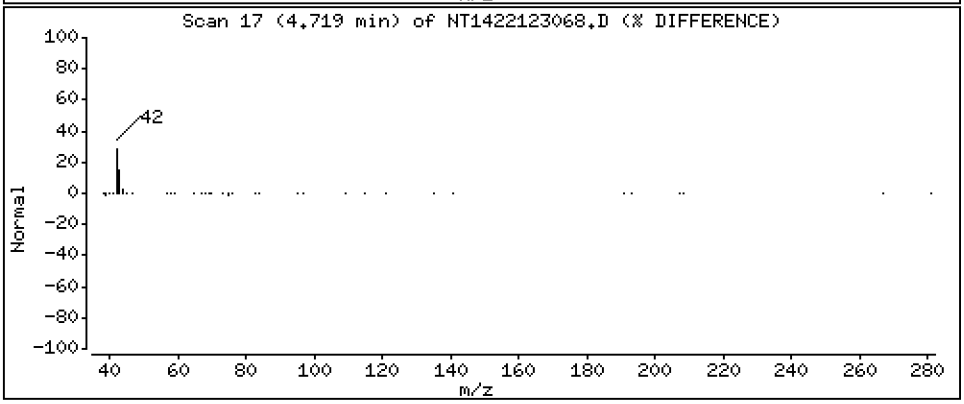












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

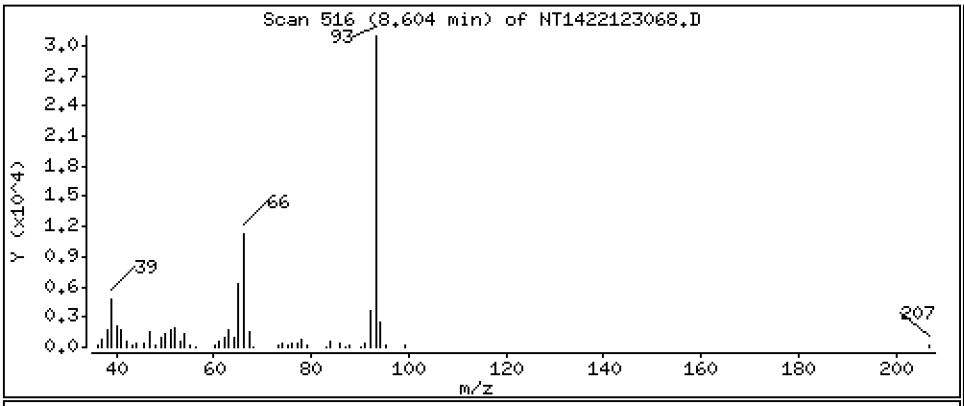
Operator: VTS

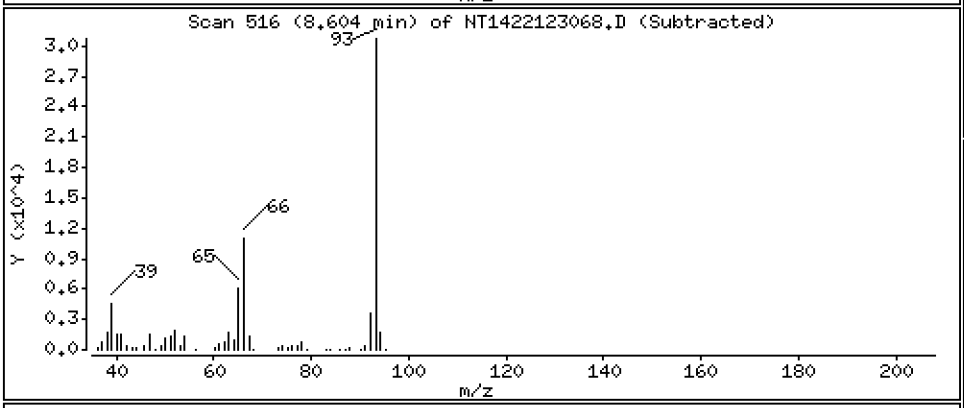
Column phase: ZB-5msi

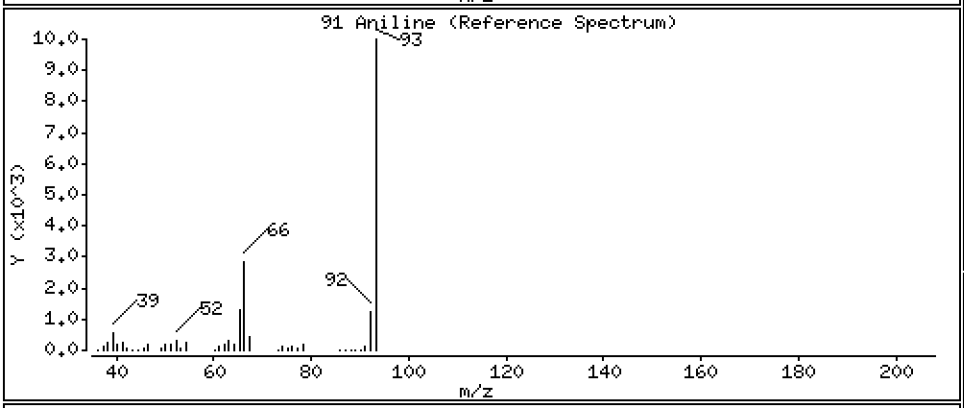
Column diameter: 0.25

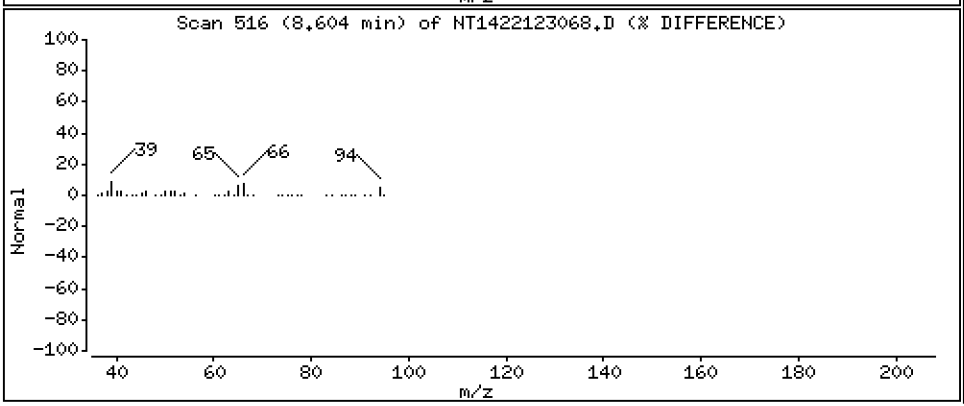
91 Aniline

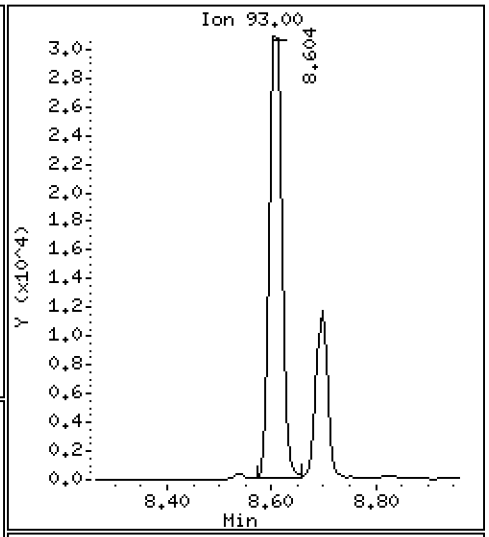
Concentration: 0.9709 ug/mL

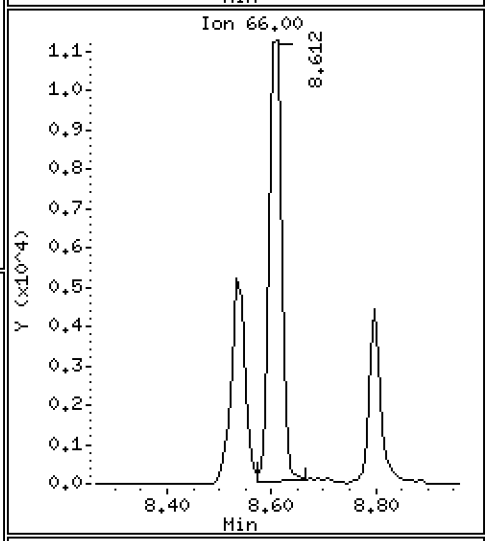


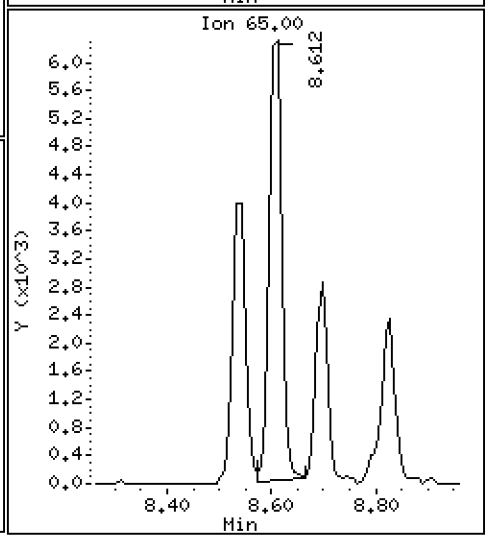












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

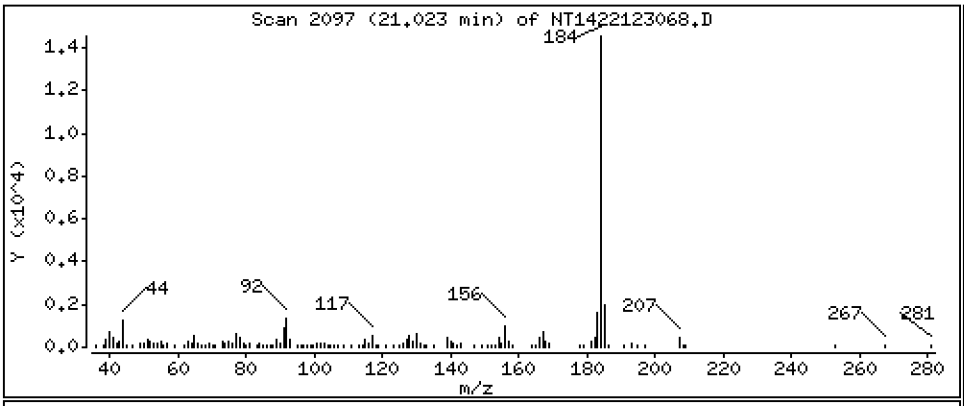
Operator: VTS

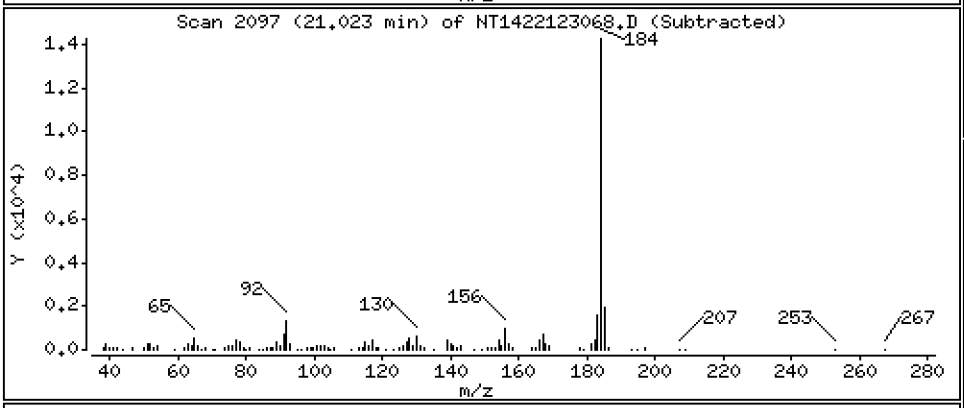
Column phase: ZB-5msi

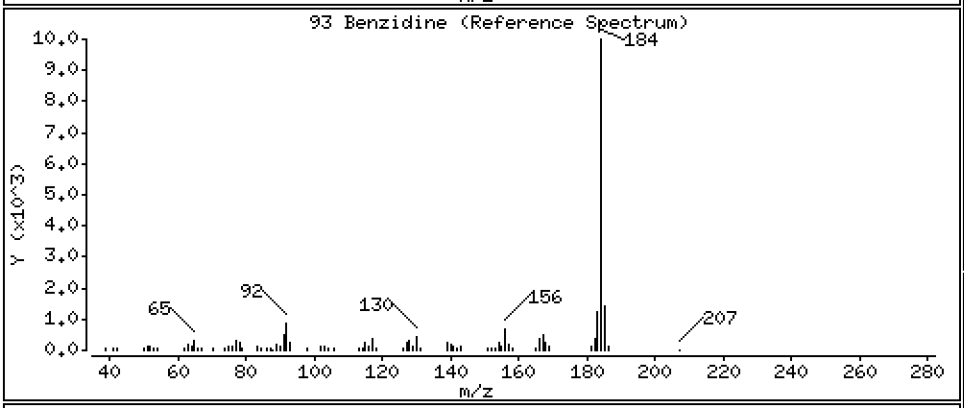
Column diameter: 0.25

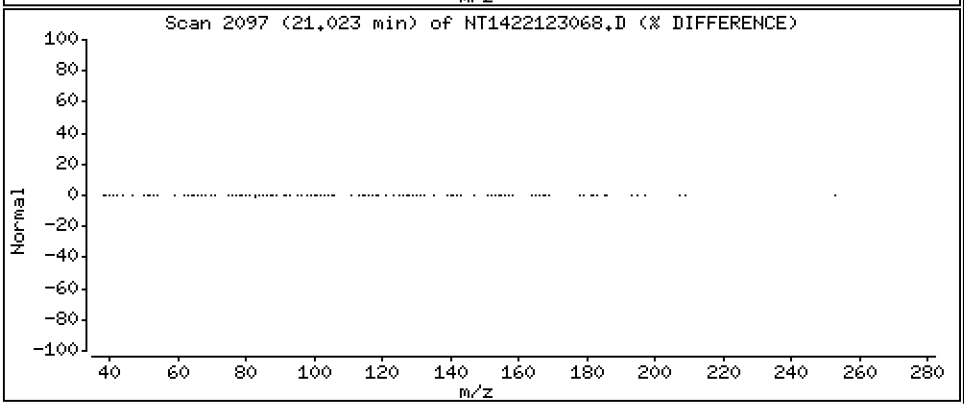
93 Benzidine

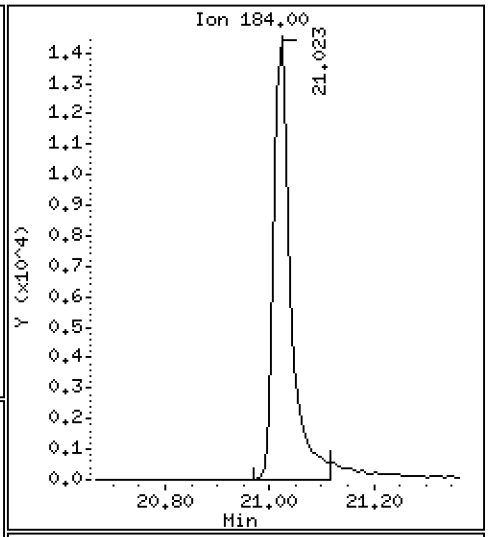
Concentration: 0.8853 ug/mL

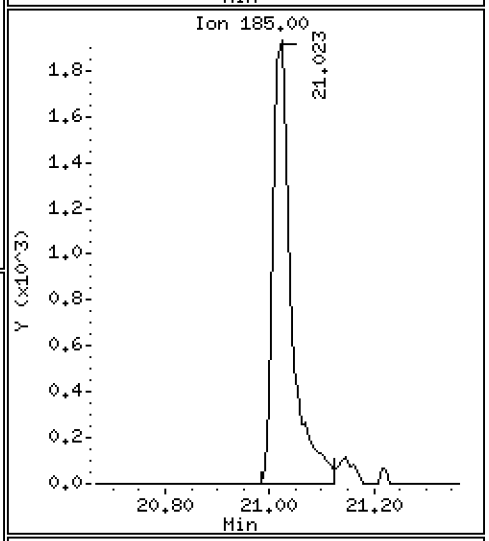


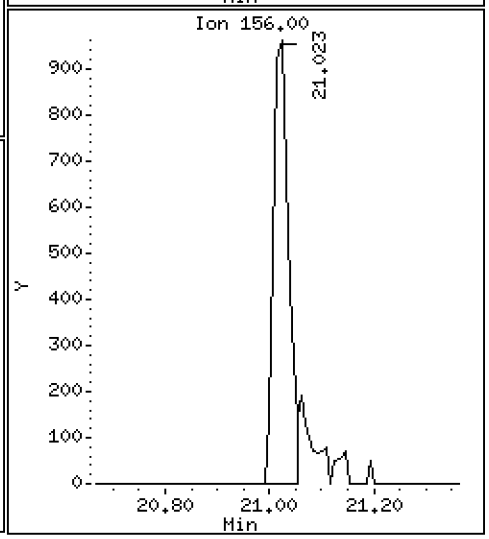












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

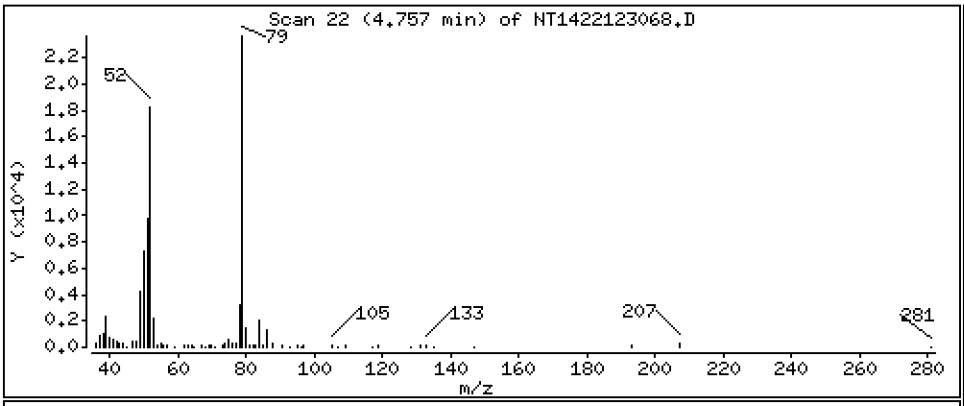
Operator: VTS

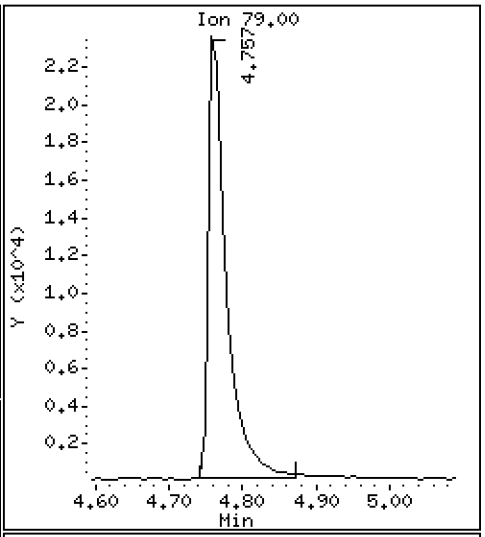
Column phase: ZB-5msi

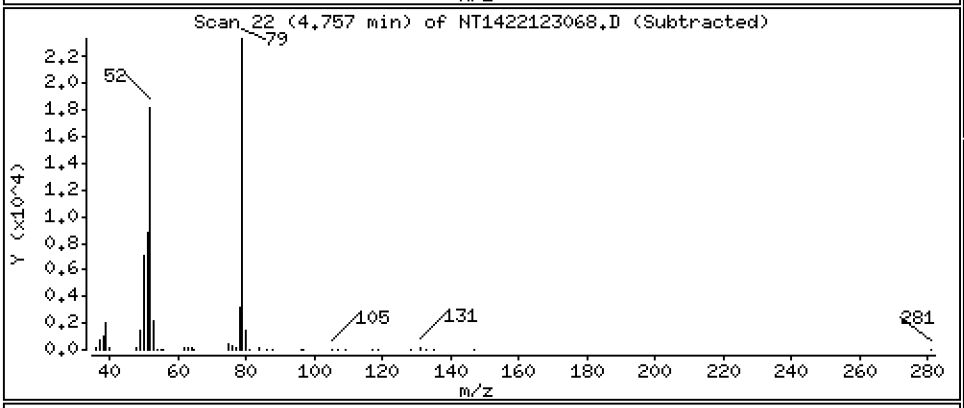
Column diameter: 0.25

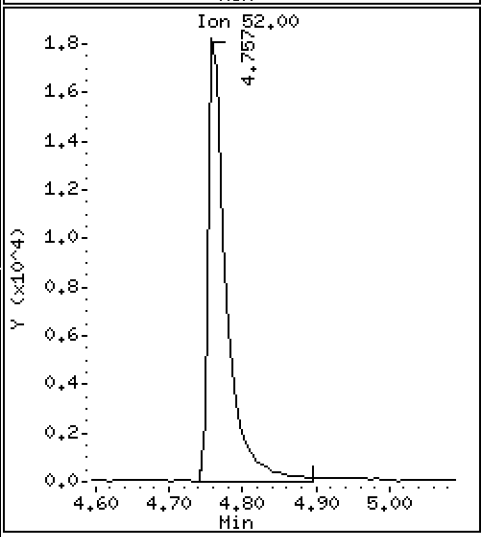
103 Pyridine

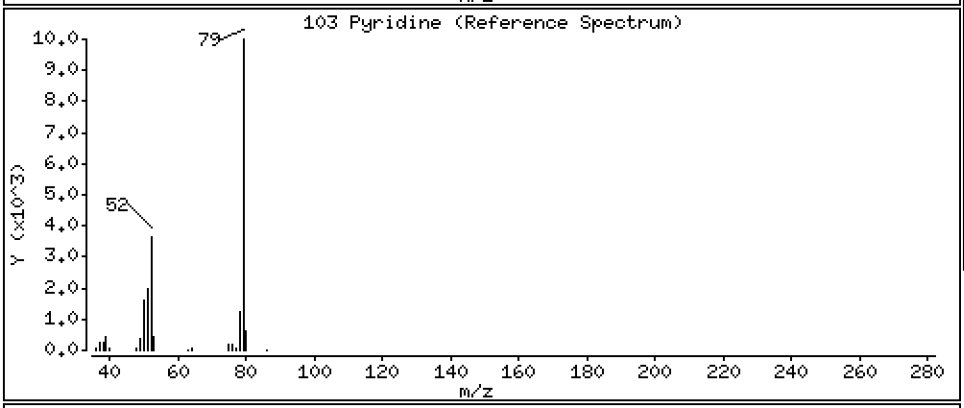
Concentration: 0.5018 ug/mL

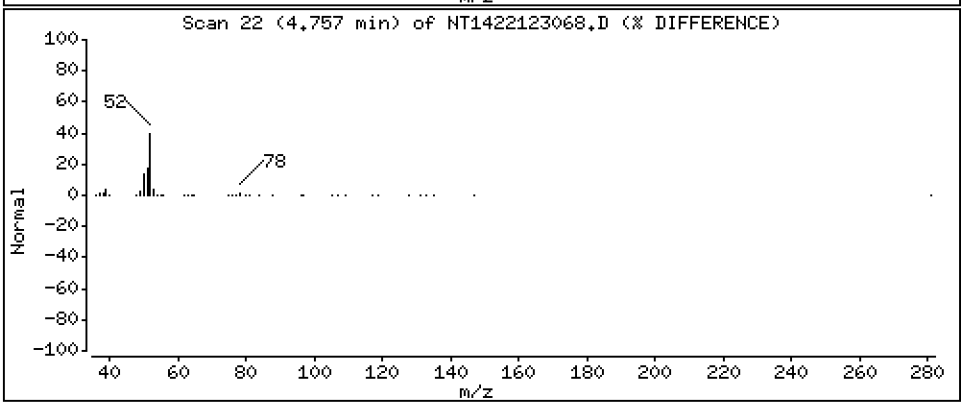












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

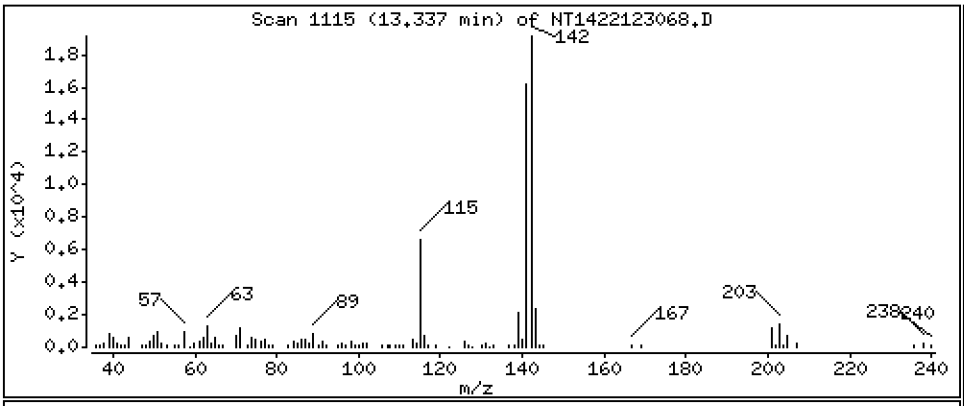
Operator: VTS

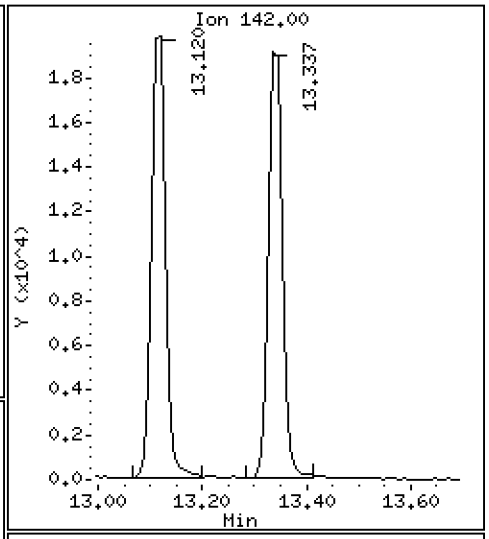
Column phase: ZB-5msi

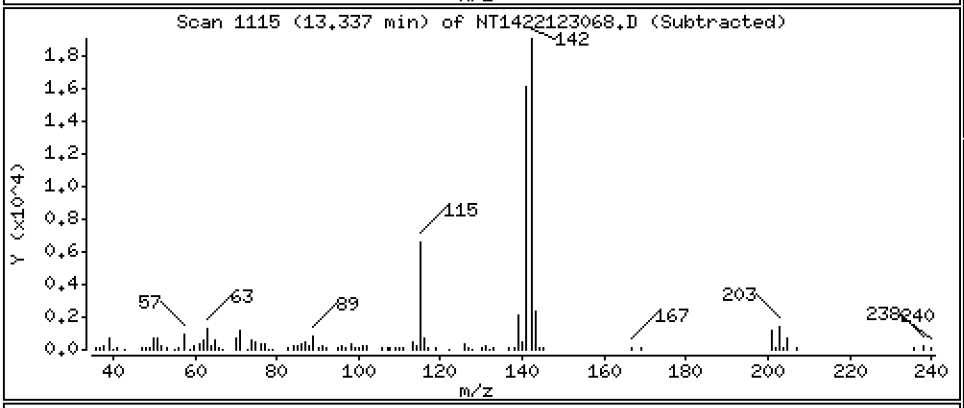
Column diameter: 0.25

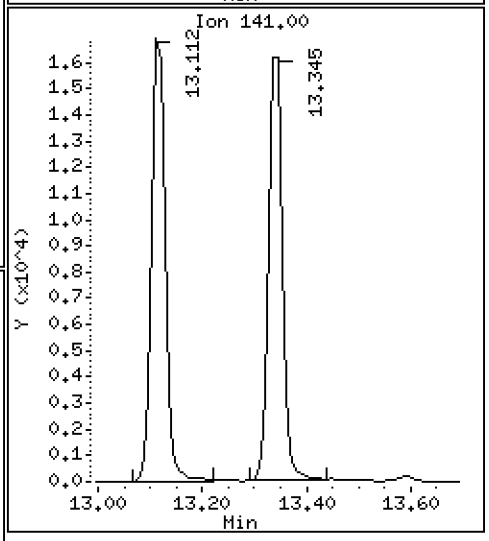
105 1-methylnaphthalene

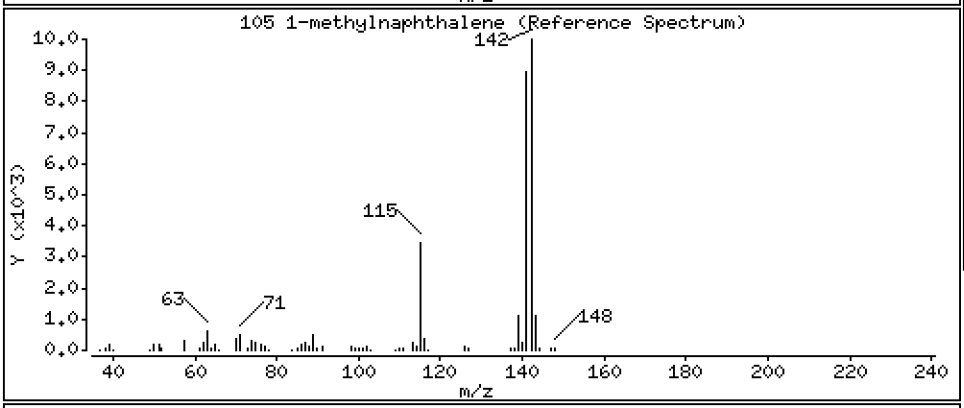
Concentration: 0.4742 ug/mL

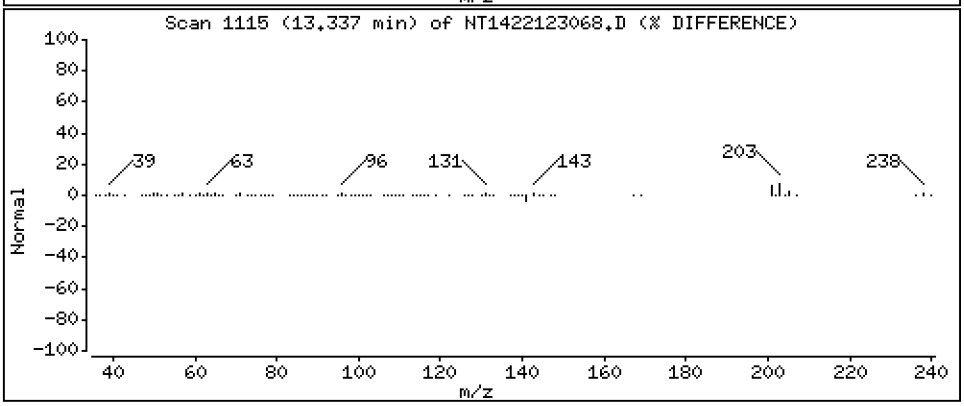












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

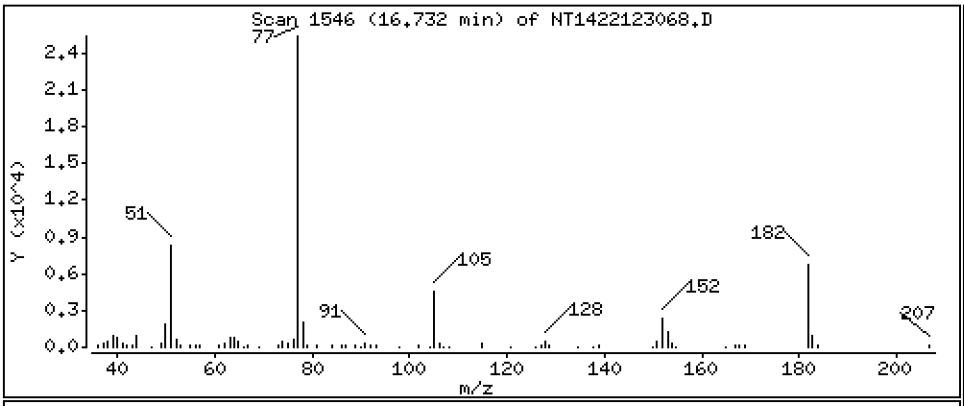
Operator: VTS

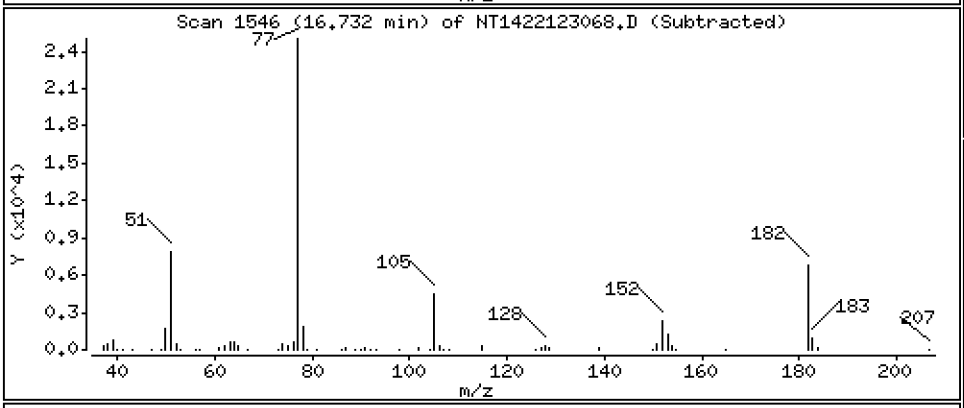
Column phase: ZB-5msi

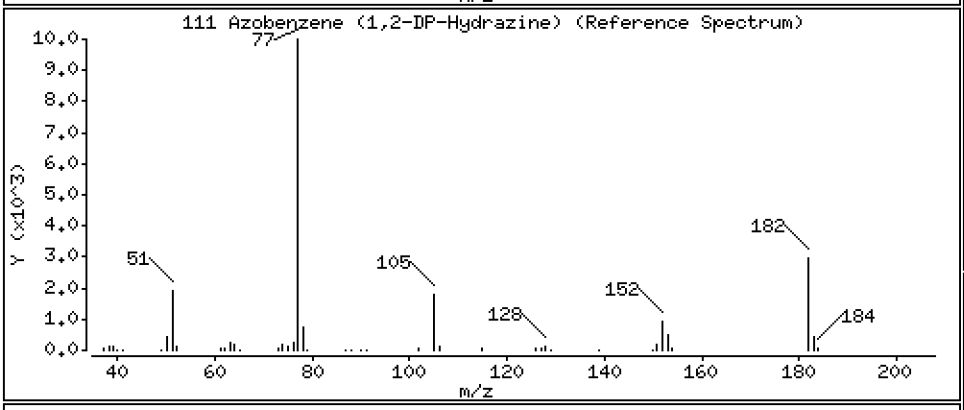
Column diameter: 0.25

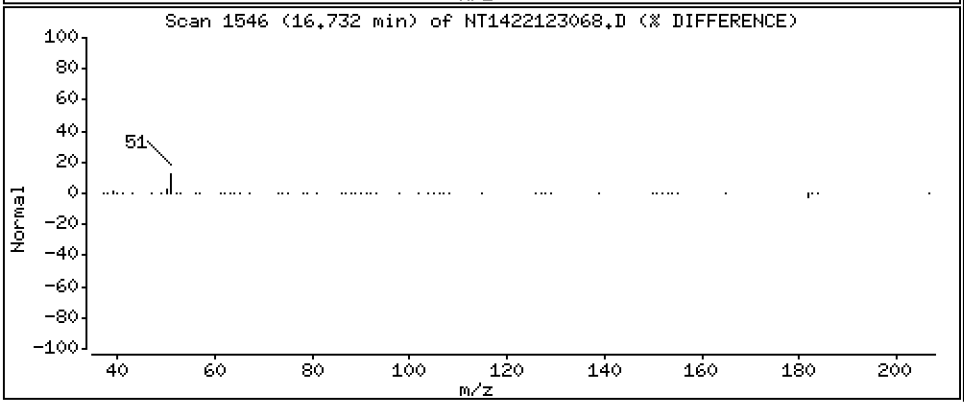
111 Azobenzene (1,2-DP-Hydrazine)

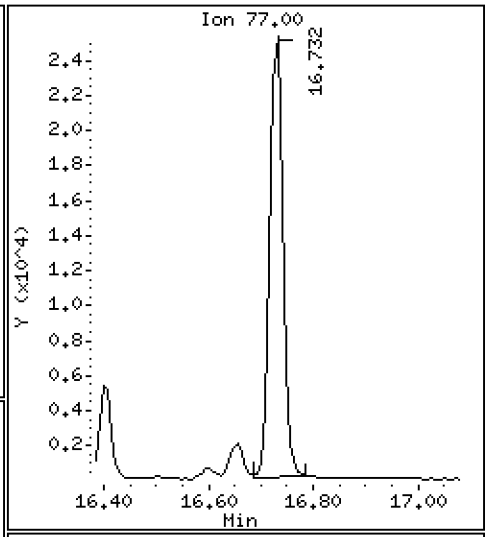
Concentration: 0.5334 ug/mL

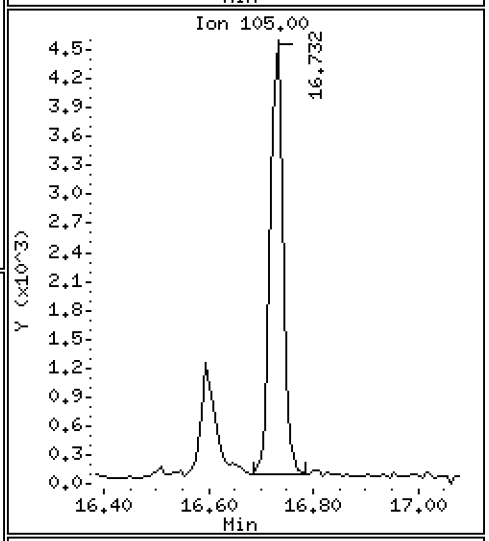


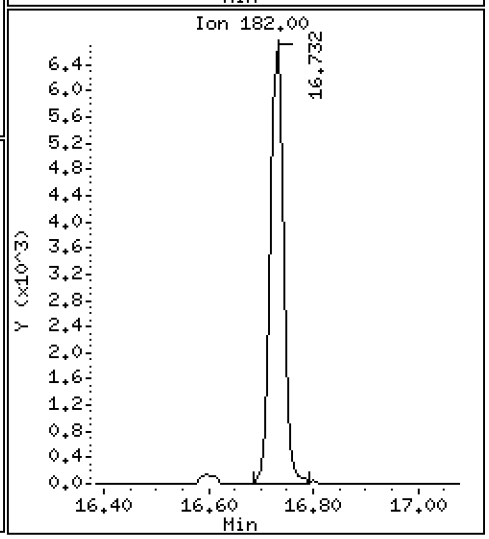












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

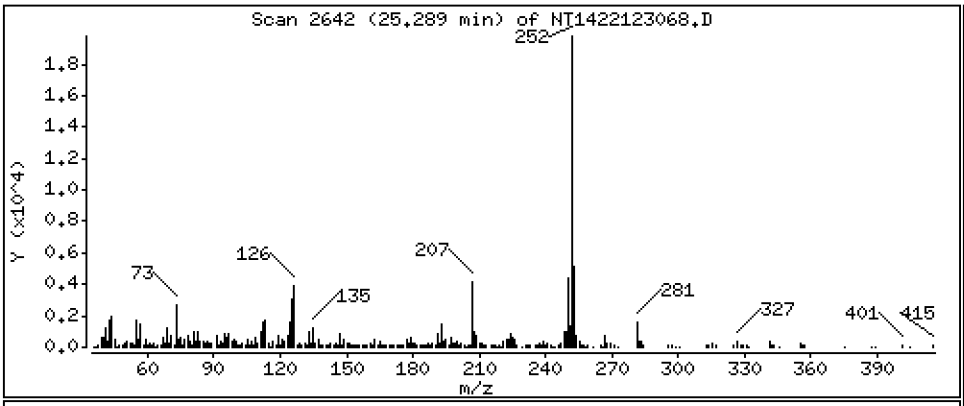
Operator: VTS

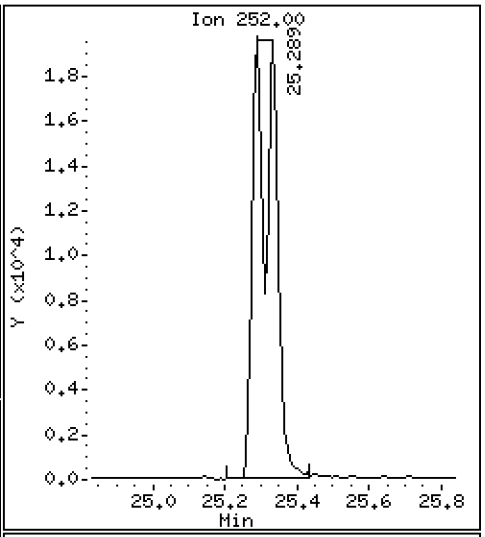
Column phase: ZB-5msi

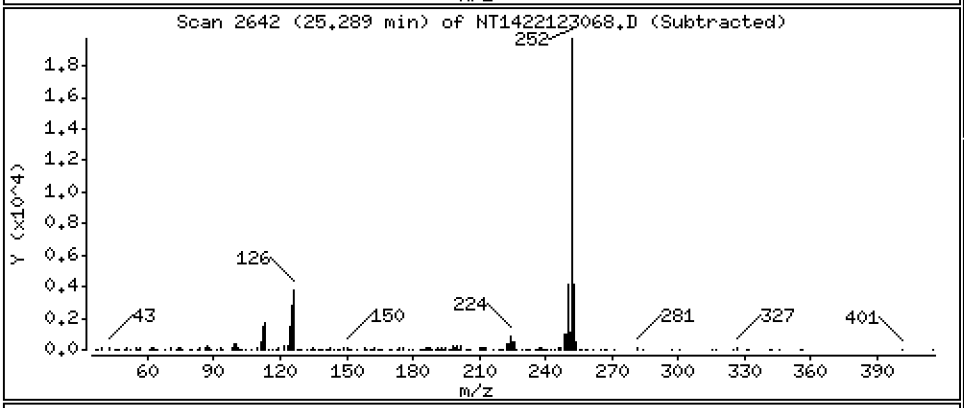
Column diameter: 0.25

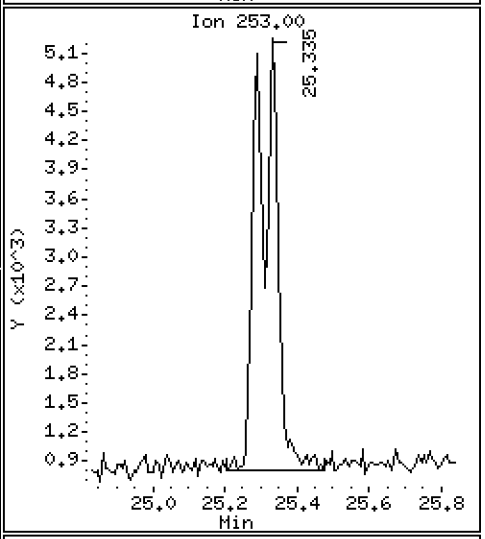
187 Total Benzofluoranthenes

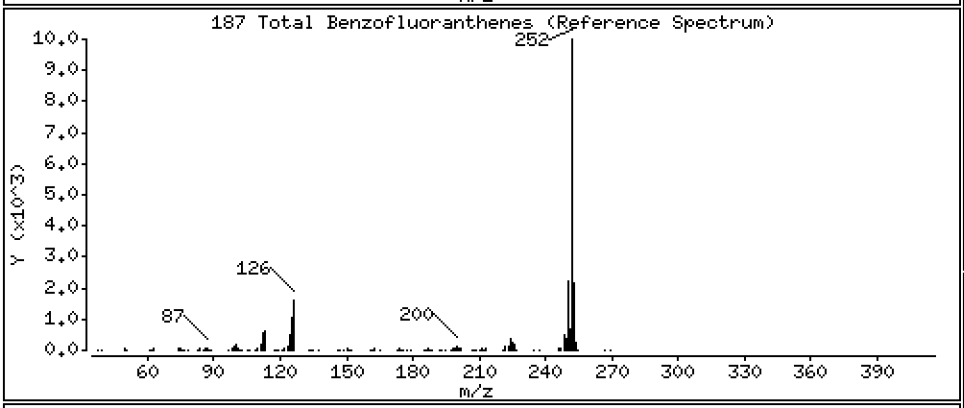
Concentration: 1.127 ug/mL

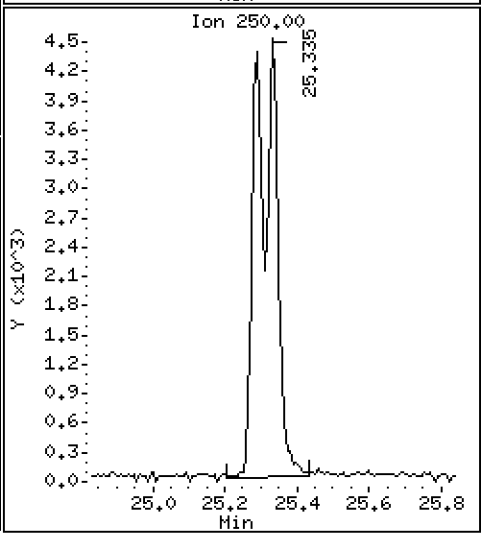


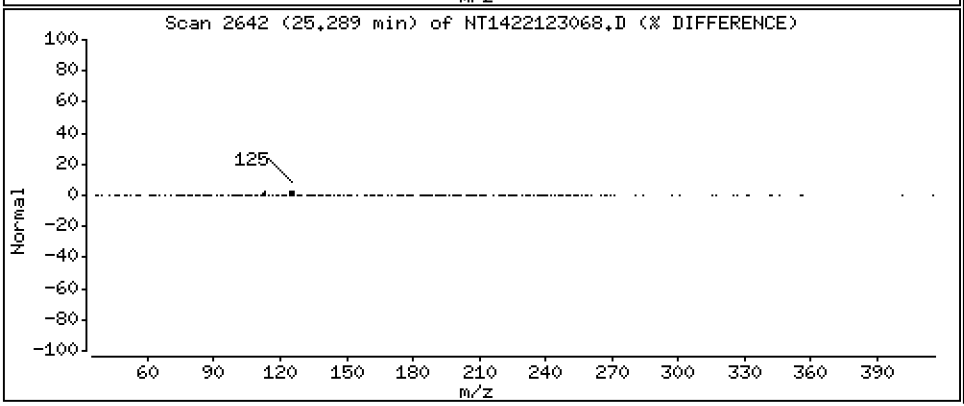












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

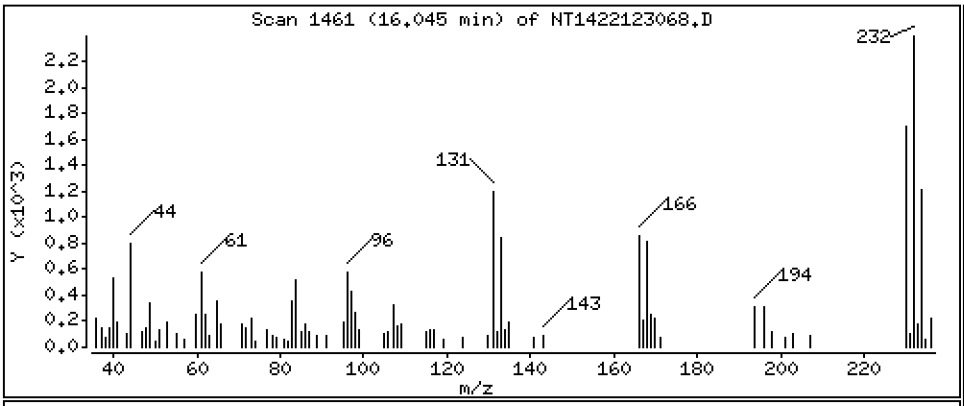
Operator: VTS

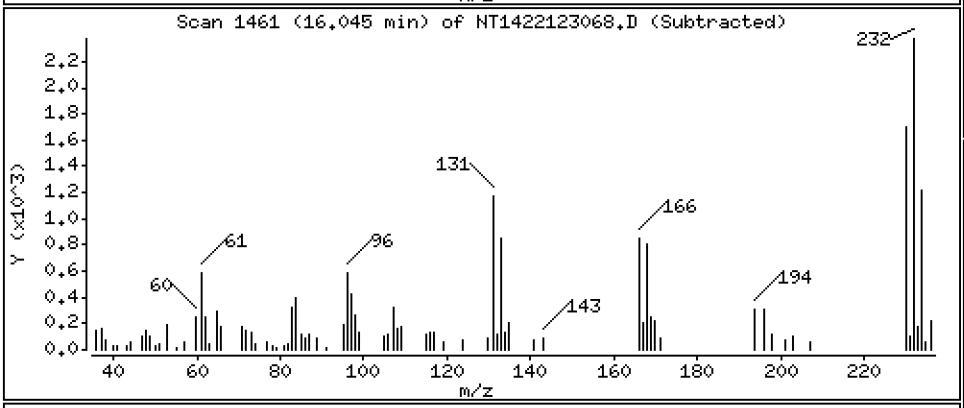
Column phase: ZB-5msi

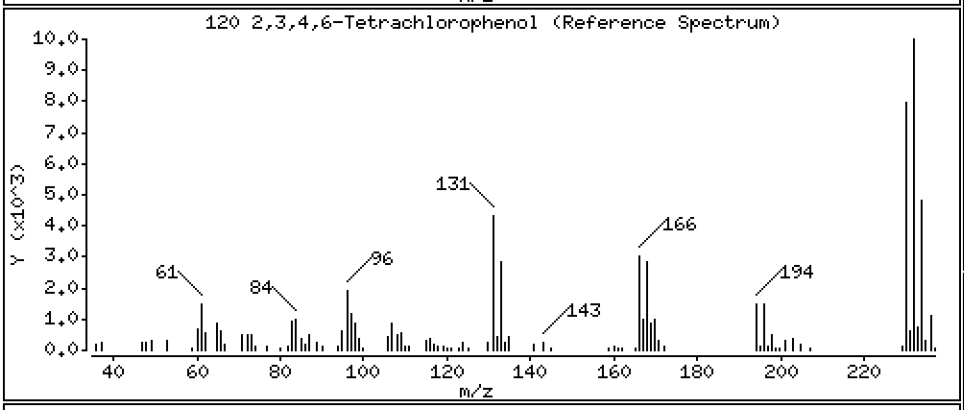
Column diameter: 0.25

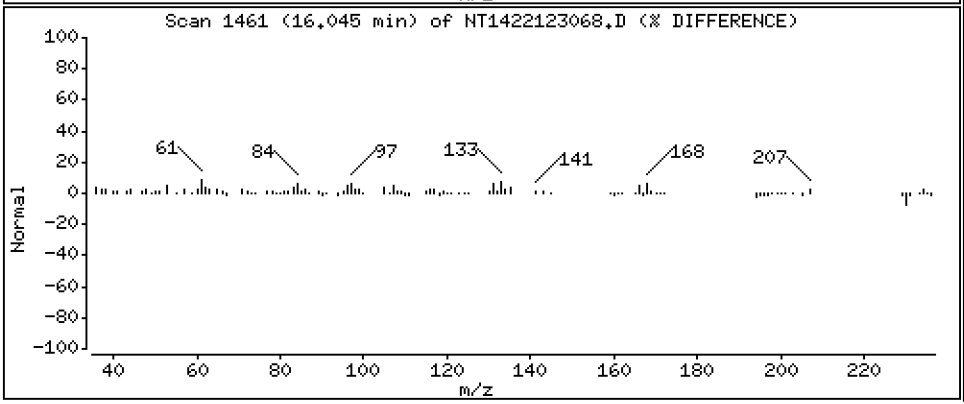
120 2,3,4,6-Tetrachlorophenol

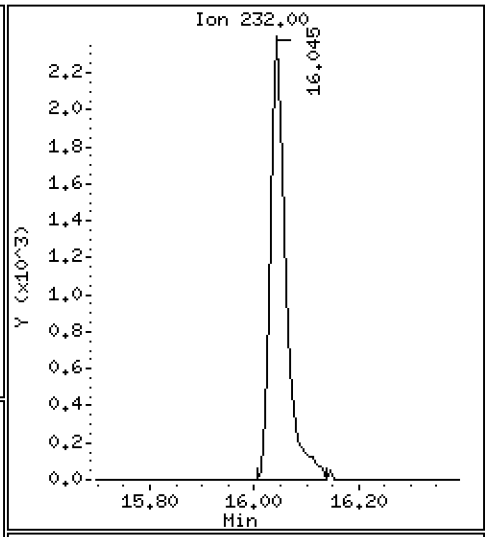
Concentration: 0.3210 ug/mL

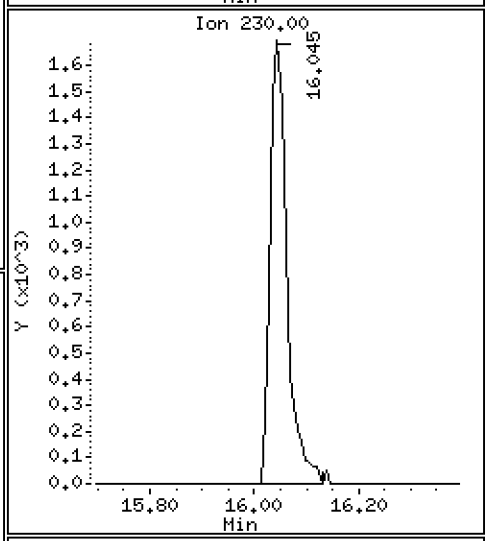


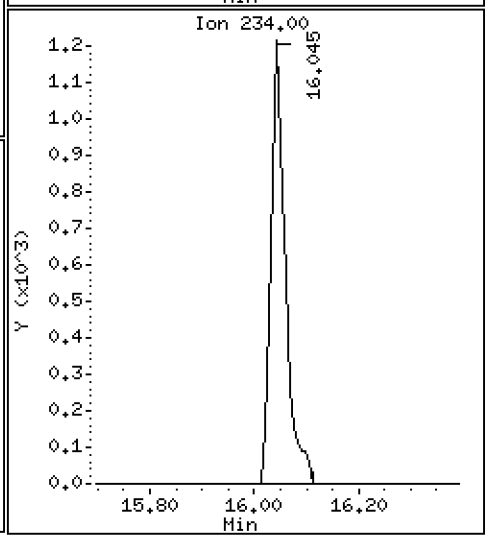












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230C.b\NT1422123068.D
Lab Smp Id: SKL0355-LCV4
Inj Date : 01-JAN-2023 00:42 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-LCV4
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.919	6.919	(0.755)	26679	0.73231	0.7323
$	2 Phenol-d5	99	8.519	8.519	(0.930)	29740	0.66056	0.6606
	3 Phenol	94	8.542	8.542	(0.932)	24851	0.48577	0.4858
$	5 2-Chlorophenol-d4	132	8.797	8.797	(0.960)	26376	0.69756	0.6976
	4 Bis(2-Chloroethyl)ether	93	8.696	8.696	(0.949)	16971	0.48157	0.4816
	6 2-Chlorophenol	128	8.828	8.827	(0.964)	21442	0.51635	0.5163
	7 1,3-Dichlorobenzene	146	9.098	9.098	(0.993)	21932	0.49807	0.4981
*	8 1,4-Dichlorobenzene-d4	152	9.160	9.160	(1.000)	113715	4.00000	
	9 1,4-Dichlorobenzene	146	9.191	9.191	(1.003)	21144	0.50685	0.5068
$	10 1,2-Dichlorobenzene-d4	152	9.525	9.525	(1.040)	12409	0.48016	0.4802
	12 1,2-Dichlorobenzene	146	9.548	9.556	(1.042)	20298	0.49614	0.4961
	11 Benzyl alcohol	108	9.440	9.440	(1.030)	8811	0.38688	0.3869
	14 2,2'-oxybis(1-Chloropropane)	121	9.735	9.735	(1.063)	5608	0.47279	0.4728(M)
	13 2-Methylphenol	108	9.665	9.665	(1.055)	18106	0.48706	0.4871
	17 Hexachloroethane	117	10.154	10.154	(1.108)	6330	0.41257	0.4126
	16 N-Nitroso-di-n-propylamine	70	9.991	9.998	(1.091)	11492	0.50748	0.5075
	15 4-Methylphenol	108	9.937	9.936	(1.085)	18249	0.46535	0.4654
$	18 Nitrobenzene-d5	82	10.262	10.262	(0.880)	16843	0.48307	0.4831
	19 Nitrobenzene	77	10.293	10.301	(0.882)	16249	0.46925	0.4693
	20 Isophorone	82	10.751	10.751	(0.922)	19966	0.45240	0.4524
	21 2-Nitrophenol	139	10.938	10.937	(0.938)	10030	0.47315	0.4732
	22 2,4-Dimethylphenol	107	10.992	10.992	(0.942)	35304	0.97686	0.9769
	23 Bis(2-Chloroethoxy)methane	93	11.178	11.186	(0.958)	16990	0.49487	0.4949
	24 Benzoic acid	105	11.093	11.209	(0.951)	9855	0.44771	0.4477
	25 2,4-Dichlorophenol	162	11.395	11.395	(0.977)	29244	0.95995	0.9599
	26 1,2,4-Trichlorobenzene	180	11.581	11.581	(0.993)	16108	0.48901	0.4890
*	27 Naphthalene-d8	136	11.666	11.673	(1.000)	412900	4.00000	
	28 Naphthalene	128	11.712	11.712	(1.004)	49324	0.48541	0.4854
	29 4-Chloroaniline	127	11.835	11.835	(1.015)	37233	0.88851	0.8885
	30 Hexachlorobutadiene	225	12.075	12.075	(1.035)	7808	0.47774	0.4777
	31 4-Chloro-3-methylphenol	107	12.818	12.810	(1.099)	27298	0.94955	0.9495
	32 2-Methylnaphthalene	142	13.120	13.120	(1.125)	34703	0.46559	0.4656
	33 Hexachlorocyclopentadiene	237	13.584	13.584	(0.888)	2182	0.13732	0.1373

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
34	2,4,6-Trichlorophenol	196	13.747	13.739	(0.898)	15331	0.87384	0.8738
35	2,4,5-Trichlorophenol	196	13.832	13.816	(0.904)	16238	0.80193	0.8019
$ 36	2-Fluorobiphenyl	172	13.901	13.901	(0.908)	33358	0.47200	0.4720
37	2-Chloronaphthalene	162	14.118	14.118	(0.923)	28915	0.48093	0.4809
38	2-Nitroaniline	65	14.373	14.373	(0.939)	15604	0.98717	0.9872
39	Dimethylphthalate	163	14.799	14.799	(0.967)	29378	0.49559	0.4956
40	Acenaphthylene	152	14.993	14.993	(0.980)	45647	0.49793	0.4979
41	2,6-Dinitrotoluene	165	14.938	14.938	(0.976)	11674	0.87263	0.8726
* 42	Acenaphthene-d10	164	15.302	15.310	(1.000)	210199	4.00000	
43	3-Nitroaniline	138	15.225	15.225	(0.995)	13799	0.84865	0.8487
44	Acenaphthene	153	15.372	15.371	(1.005)	28173	0.49548	0.4955
45	2,4-Dinitrophenol	184	15.457	15.441	(1.010)	140	0.01232	0.01232(M)
46	Dibenzofuran	168	15.704	15.704	(1.026)	42021	0.49282	0.4928
47	4-Nitrophenol	109	15.611	15.557	(1.020)	5233	0.67188	0.6719(M)
48	2,4-Dinitrotoluene	165	15.750	15.750	(1.029)	14281	0.77805	0.7780
50	Diethylphthalate	149	16.261	16.268	(1.063)	46077	0.57187	0.5719
49	Fluorene	166	16.415	16.423	(1.073)	44261	0.48795	0.4880
51	4-Chlorophenyl-phenylether	204	16.407	16.407	(1.072)	22749	0.51226	0.5123
52	4-Nitroaniline	138	16.508	16.500	(1.079)	16284	0.83129	0.8313
53	4,6-Dinitro-2-methylphenol	198	16.600	16.600	(0.904)	5489	0.38256	0.3826
54	N-Nitrosodiphenylamine	169	16.654	16.654	(0.907)	29997	0.51151	0.5115
$ 55	2,4,6-Tribromophenol	330	16.955	16.955	(1.108)	5302	0.53750	0.5375
56	4-Bromophenyl-phenylether	248	17.410	17.410	(0.949)	10508	0.47320	0.4732
57	Hexachlorobenzene	284	17.734	17.734	(0.966)	11873	0.48722	0.4872
58	Pentachlorophenol	266	18.098	18.090	(0.986)	1094	0.10366	0.1037
* 59	Phenanthrene-d10	188	18.354	18.361	(1.000)	341756	4.00000	
60	Phenanthrene	178	18.408	18.408	(1.003)	43053	0.48317	0.4832
61	Anthracene	178	18.501	18.500	(1.008)	41243	0.48484	0.4848
62	Carbazole	167	18.833	18.825	(1.026)	38498	0.46815	0.4681
63	Di-n-butylphthalate	149	19.615	19.614	(1.069)	44555	0.47888	0.4789
64	Fluoranthene	202	20.791	20.791	(0.889)	44357	0.47195	0.4720
65	Pyrene	202	21.216	21.216	(0.907)	47545	0.48113	0.4811
$ 66	Terphenyl-d14	244	21.495	21.495	(0.919)	31626	0.45136	0.4514
67	Butylbenzylphthalate	149	22.408	22.408	(0.958)	19630	0.52609	0.5261
68	Benzo(a)anthracene	228	23.368	23.376	(0.999)	46031	0.52057	0.5206
* 69	Chrysene-d12	240	23.399	23.399	(1.000)	291897	4.00000	
70	3,3'-Dichlorobenzidine	252	23.322	23.322	(0.997)	44420	1.64100	1.641
71	Chrysene	228	23.446	23.446	(1.002)	41769	0.50008	0.5001
72	bis(2-Ethylhexyl)phthalate	149	23.430	23.430	(0.959)	26412	0.51360	0.5136
* 134	Di-n-octylphthalate-d4	153	24.421	24.421	(1.000)	463051	4.00000	
73	Di-n-octylphthalate	149	24.429	24.429	(1.000)	54465	0.49000	0.4900
74	Benzo(b)fluoranthene	252	25.288	25.296	(0.969)	39255	0.54365	0.5437
75	Benzo(k)fluoranthene	252	25.335	25.335	(0.971)	41907	0.57023	0.5702
76	Benzo(a)pyrene	252	25.962	25.970	(0.995)	31790	0.52962	0.5296
* 77	Perylene-d12	264	26.086	26.086	(1.000)	229756	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.853	28.838	(1.106)	19627	0.28764	0.2876
79	Dibenzo(a,h)anthracene	278	28.869	28.853	(1.107)	17106	0.29501	0.2950
80	Benzo(g,h,i)perylene	276	29.661	29.653	(1.137)	13763	0.24077	0.2408
90	N-Nitrosodimethylamine	74	4.718	4.718	(0.515)	25361	1.01079	1.011
91	Aniline	93	8.604	8.611	(0.939)	48364	0.97094	0.9709
93	Benzidine	184	21.023	21.015	(0.898)	31719	0.88529	0.8853
103	Pyridine	79	4.757	4.741	(0.519)	40010	0.50184	0.5018
105	1-methylnaphthalene	142	13.336	13.344	(1.143)	33959	0.47418	0.4742
111	Azobenzene (1,2-DP-Hydrazine)	77	16.731	16.731	(1.093)	41634	0.53337	0.5334

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.288	25.335	(0.969)	78652	1.12670	1.127
120 2,3,4,6-Tetrachlorophenol	232	16.044	16.044	(1.048)	4758	0.32105	0.3210

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123068.D
Lab Smp Id: SKL0355-LCV4
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Misc Info:

Calibration Date: 31-DEC-2022
Calibration Time: 23:30
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138755	69378	277510	113715	-18.05
27 Naphthalene-d8	501723	250862	1003446	412900	-17.70
42 Acenaphthene-d10	275234	137617	550468	210199	-23.63
59 Phenanthrene-d10	440085	220043	880170	341756	-22.34
69 Chrysene-d12	384795	192398	769590	291897	-24.14
134 Di-n-octylphthala	674530	337265	1349060	463051	-31.35
77 Perylene-d12	336665	168333	673330	229756	-31.76

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	-0.07
42 Acenaphthene-d10	15.31	14.81	15.81	15.30	-0.05
59 Phenanthrene-d10	18.36	17.86	18.86	18.35	-0.04
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.42	0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123068.D

Lab ID: SKL0355-LCV4
nt14.i, 20221230C.b\ABN.m,   01-JAN-2023 00:42

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.951	0.960	-0.0093	Benzoic acid

RRT check based on Ccal File: NT1422123066.D

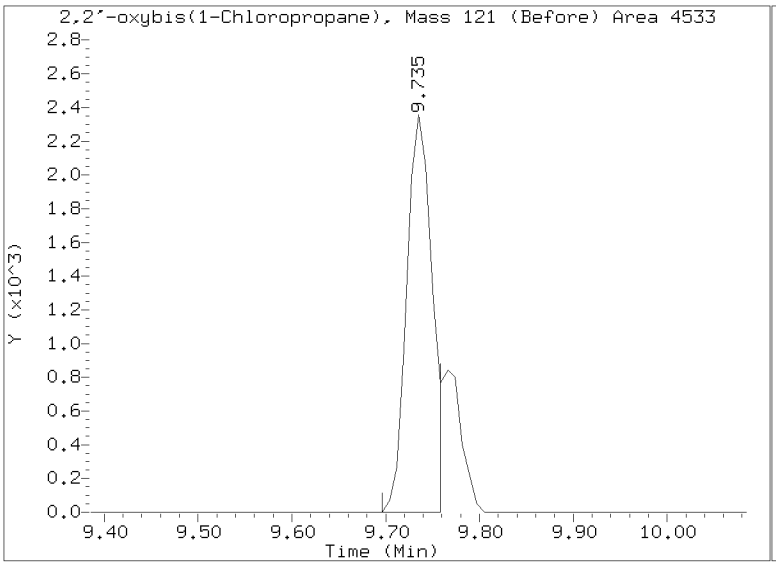
On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

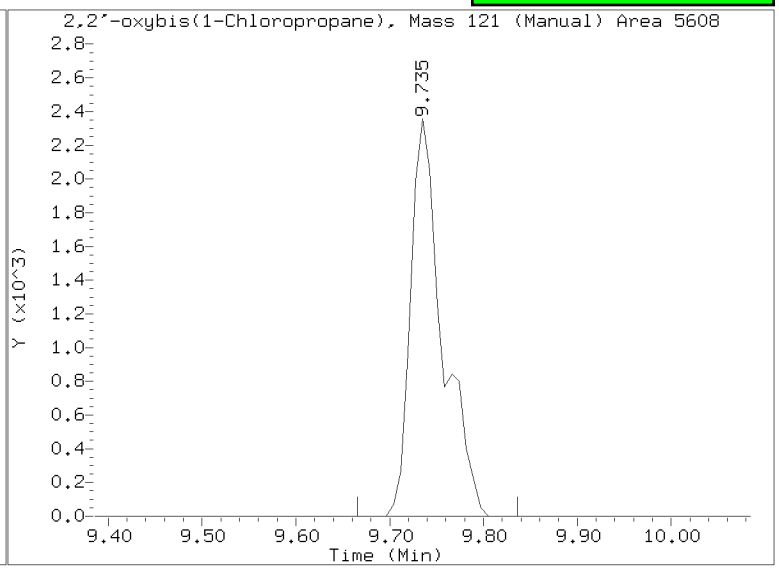
* Only compounds listed in the work order have been verified by the analyst *

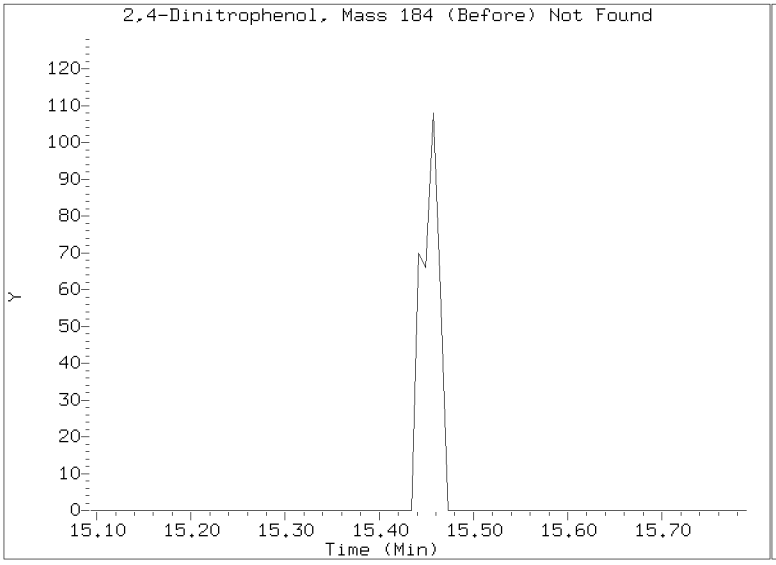
Quant Ion Manual Peak Adjustment Report

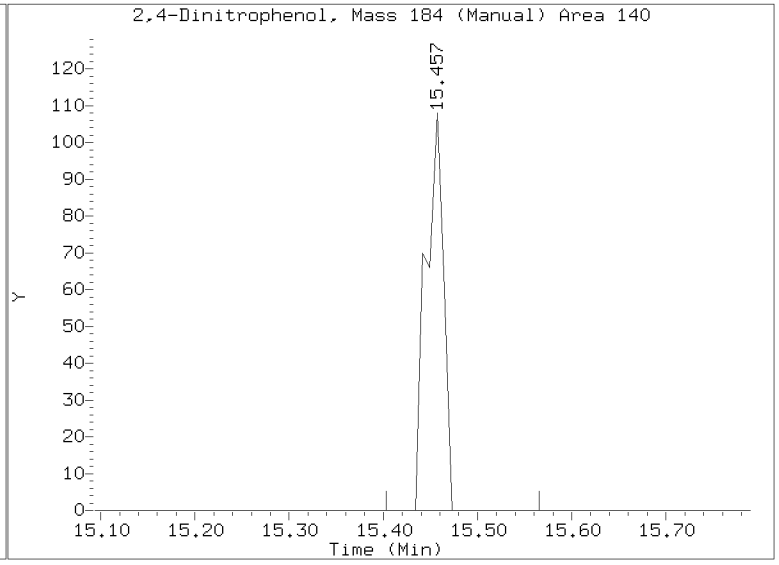
Datafile: //target/share/chem3/nt14.i/20221230C.b/NT1422123068.D
Injection Date: 01-JAN-2023 00:42
Lab ID:SKL0355-LCV4 Client ID:
Report Date: 01/04/2023 14:23

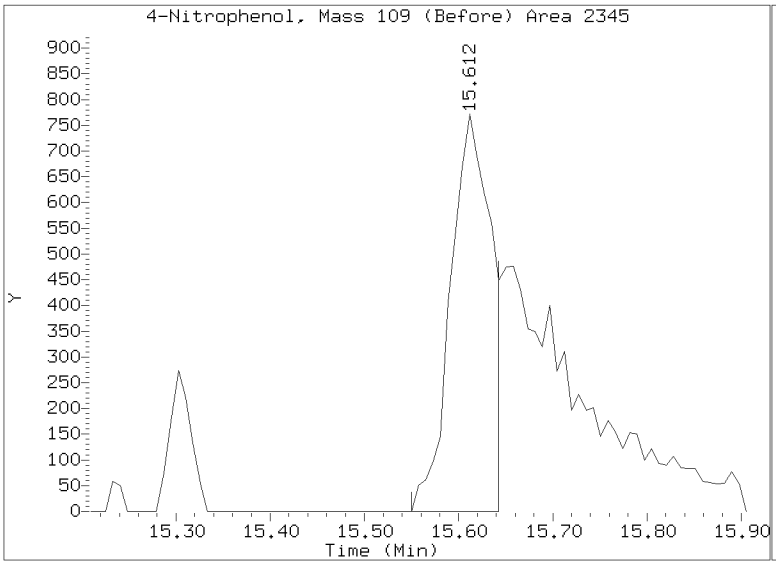
REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM

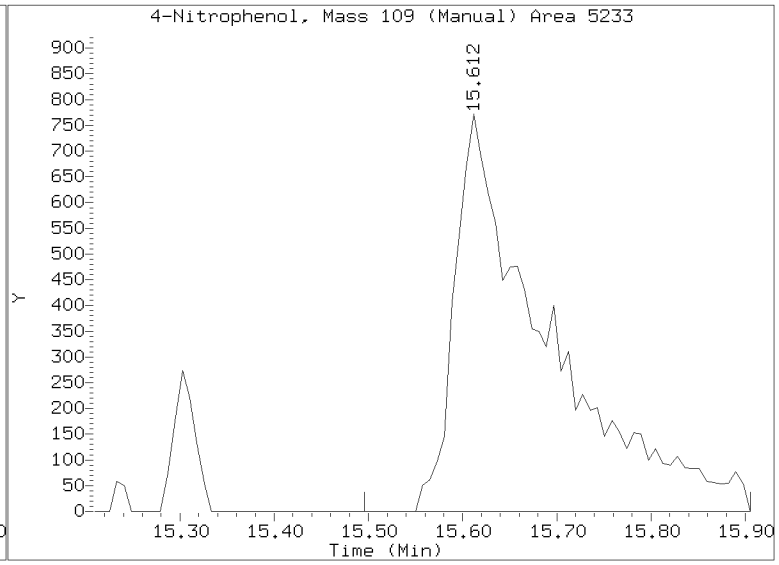












Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123011.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/30/22
Lab Sample ID:	SKL0355-ICV1	Injection Time:	13:31
Sequence Name:	SICV1		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Phenol	A	5.0000	4.4	1.7995200	1.5659790		-13.0	+/-20	
bis(2-chloroethyl) ether	A	5.0000	5.1	1.2396270	1.2632950		1.9	+/-20	
2-Chlorophenol	A	5.0000	4.5	1.4607190	1.3032960		-10.8	+/-20	
1,3-Dichlorobenzene	A	5.0000	4.8	1.5489360	1.4727770		-4.9	+/-20	
1,4-Dichlorobenzene	A	5.0000	4.8	1.4674070	1.4007540		-4.5	+/-20	
1,2-Dichlorobenzene	A	5.0000	4.8	1.4391100	1.3720310		-4.7	+/-20	
Benzyl Alcohol	A	5.0000	5.0	0.8011083	0.7978689		-0.4	+/-20	
2,2'-Oxybis(1-chloropropane)	A	5.0000	5.2	0.4172325	0.4333324		3.9	+/-20	
2-Methylphenol	A	5.0000	3.9	1.3076140	1.0270		-21.5	+/-20	*
Hexachloroethane	A	5.0000	4.9	0.5396966	0.5320521		-1.4	+/-20	
N-Nitroso-di-n-Propylamine	A	5.0000	5.1	0.7965591	0.8170159		2.6	+/-20	
4-Methylphenol	A	5.0000	4.1	1.3794240	1.1372560		-17.6	+/-20	
Nitrobenzene	A	5.0000	4.9	0.3354574	0.3273825		-2.4	+/-20	
Isophorone	A	5.0000	6.9	0.4275424	0.5939464		38.9	+/-20	*
2-Nitrophenol	A	5.0000	4.6	0.2064997	0.1942317		-8.9	+/-20	
2,4-Dimethylphenol	A	5.0000	3.7	0.3501131	0.2564747		-26.7	+/-20	*
Bis(2-Chloroethoxy)methane	A	5.0000	5.7	0.3325989	0.3771945		13.4	+/-20	
2,4-Dichlorophenol	A	5.0000	4.4	0.2951237	0.2590228		-12.2	+/-20	
1,2,4-Trichlorobenzene	A	5.0000	4.6	0.3191088	0.2919389		-8.5	+/-20	
Naphthalene	A	5.0000	4.8	0.9843833	0.9472936		-3.8	+/-20	
Benzoic acid	A	10.000	6.4	0.1508906	0.1379528		-36.2	+/-20	*
4-Chloroaniline	A	5.0000	3.8	0.4059568	0.3124698		-23.0	+/-20	*
Hexachlorobutadiene	A	5.0000	4.8	0.1583286	0.1527172		-3.5	+/-20	
4-Chloro-3-Methylphenol	A	5.0000	4.5	0.2785027	0.2518784		-9.6	+/-20	
2-Methylnaphthalene	A	5.0000	4.6	0.7220739	0.6665809		-7.7	+/-20	
Hexachlorocyclopentadiene	A	5.0000	5.1	0.3023695	0.3072422		1.6	+/-20	
2,4,6-Trichlorophenol	A	5.0000	4.4	0.3338641	0.2942534		-11.9	+/-20	
2,4,5-Trichlorophenol	A	5.0000	4.3	0.3853234	0.3296455		-14.4	+/-20	
2-Chloronaphthalene	A	5.0000	4.8	1.1441150	1.0877620		-4.9	+/-20	
2-Nitroaniline	A	5.0000	5.0	0.3007956	0.3033642		0.9	+/-20	

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123011.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/30/22
Lab Sample ID:	SKL0355-ICV1	Injection Time:	13:31
Sequence Name:	SICV1		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Acenaphthylene	A	5.0000	5.0	1.7445240	1.7443980		-0.007	+/-20	
Dimethylphthalate	A	5.0000	5.0	1.1280520	1.1331460		0.5	+/-20	
2,6-Dinitrotoluene	A	5.0000	5.1	0.2545771	0.2604186		2.3	+/-20	
Acenaphthene	A	5.0000	4.9	1.0820160	1.0637410		-1.7	+/-20	
3-Nitroaniline	A	5.0000	5.1	0.3094189	0.3148450		1.8	+/-20	
2,4-Dinitrophenol	A	5.0000	2.0	0.1831718	0.0884337		-59.3	+/-20	*
Dibenzofuran	A	5.0000	4.7	1.6225950	1.5282140		-5.8	+/-20	
4-Nitrophenol	A	5.0000	4.1	0.1384031	0.1217896		-18.5	+/-20	
2,4-Dinitrotoluene	A	5.0000	5.0	0.3492859	0.3461866		-0.9	+/-20	
Fluorene	A	5.0000	5.2	1.7261350	1.8056560		4.6	+/-20	
4-Chlorophenylphenyl ether	A	5.0000	5.1	0.8450792	0.8609263		1.9	+/-20	
Diethyl phthalate	A	5.0000	5.4	1.5332690	1.6416350		7.1	+/-20	
4-Nitroaniline	A	5.0000	4.7	0.3413732	0.3562087		-5.3	+/-20	
4,6-Dinitro-2-methylphenol	A	5.0000	4.1	0.1530278	0.1381873		-18.4	+/-20	
N-Nitrosodiphenylamine	A	5.0000	4.8	0.6863845	0.6554505		-4.5	+/-20	
4-Bromophenyl phenyl ether	A	5.0000	4.9	0.2599074	0.2567038		-1.2	+/-20	
Hexachlorobenzene	A	5.0000	4.6	0.2852204	0.2596992		-8.9	+/-20	
Pentachlorophenol	A	5.0000	3.8	0.1128364	0.0955023		-24.1	+/-20	*
Phenanthrene	A	5.0000	4.8	1.0429190	0.9943498		-4.7	+/-20	
Anthracene	A	5.0000	4.4	0.9956202	0.8707411		-12.5	+/-20	
Carbazole	A	5.0000	4.6	0.9624945	0.8894363		-7.6	+/-20	
Di-n-Butylphthalate	A	5.0000	4.9	1.0394700	1.1158650		-1.4	+/-20	
Fluoranthene	A	5.0000	5.1	1.2879410	1.3111240		1.8	+/-20	
Pyrene	A	5.0000	5.0	1.3541610	1.3601200		0.4	+/-20	
Butylbenzylphthalate	A	5.0000	5.0	0.4650792	0.5203752		0.09	+/-20	
Benzo(a)anthracene	A	5.0000	4.9	1.2117210	1.1850410		-2.2	+/-20	
3,3'-Dichlorobenzidine	A	10.000	9.2	0.3709370	0.3415118		-7.9	+/-20	
Chrysene	A	5.0000	4.8	1.1445730	1.0903960		-4.7	+/-20	
bis(2-Ethylhexyl)phthalate	A	5.0000	5.9	0.4442323	0.5241207		18.0	+/-20	
Di-n-Octylphthalate	A	5.0000	5.1	0.9601702	0.9761882		1.7	+/-20	

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123011.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/30/22
Lab Sample ID:	SKL0355-ICV1	Injection Time:	13:31
Sequence Name:	SICV1		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Benzofluoranthenes, Total	A	10.000	10.0	1.2153330	1.2119120		-0.3	+/-20
Benzo(a)pyrene	A	5.0000	5.1	1.0450150	1.0641750		1.8	+/-20
Indeno(1,2,3-cd)pyrene	A	5.0000	5.1	1.1879490	1.2184330		2.6	+/-20
Dibenzo(a,h)anthracene	A	5.0000	5.1	1.0094890	1.0270870		1.7	+/-20
Benzo(g,h,i)perylene	A	5.0000	5.0	0.9951726	1.0026110		0.7	+/-20
1-Methylnaphthalene	A	5.0000	4.7	0.6937882	0.6481720		-6.6	+/-20
2-Fluorophenol	A	7.5000	7.32	1.2814900	1.2501890		-2.4	+/-20
Phenol-d5	A	7.5000	7.40	1.5836890	1.5617500		-1.4	+/-20
2-Chlorophenol-d4	A	7.5000	7.32	1.3300510	1.2977780		-2.4	+/-20
1,2-Dichlorobenzene-d4	A	5.0000	4.77	0.9090592	0.8665877		-4.7	+/-20
Nitrobenzene-d5	A	5.0000	4.86	0.3377760	0.3284412		-2.8	+/-20
2-Fluorobiphenyl	A	5.0000	4.82	1.3448860	1.2955820		-3.7	+/-20
2,4,6-Tribromophenol	A	7.5000	7.24	0.1844845	0.1880717		-3.5	+/-20
p-Terphenyl-d14	A	5.0000	4.82	0.9601842	0.9248755		-3.7	+/-20
1,4-Dichlorobenzene-d4	A	4.0000	4.0	37290.1800	1.0000		0.0	
Naphthalene-d8	A	4.0000	4.0	136223.9000	1.0000		0.0	
Acenaphthene-d10	A	4.0000	4.0	73667.8600	1.0000		0.0	
Phenanthrene-d10	A	4.0000	4.0	117990.4000	1.0000		0.0	
Chrysene-d12	A	4.0000	4.0	101321.8000	1.0000		0.0	
Di-n-Octylphthalate-d4	A	4.0000	4.0	149451.2000	1.0000		0.0	
Perylene-d12	A	4.0000	4.0	93469.2100	1.0000		0.0	

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123011.D

Page 1

Date : 30-DEC-2022 13:31

Client ID:

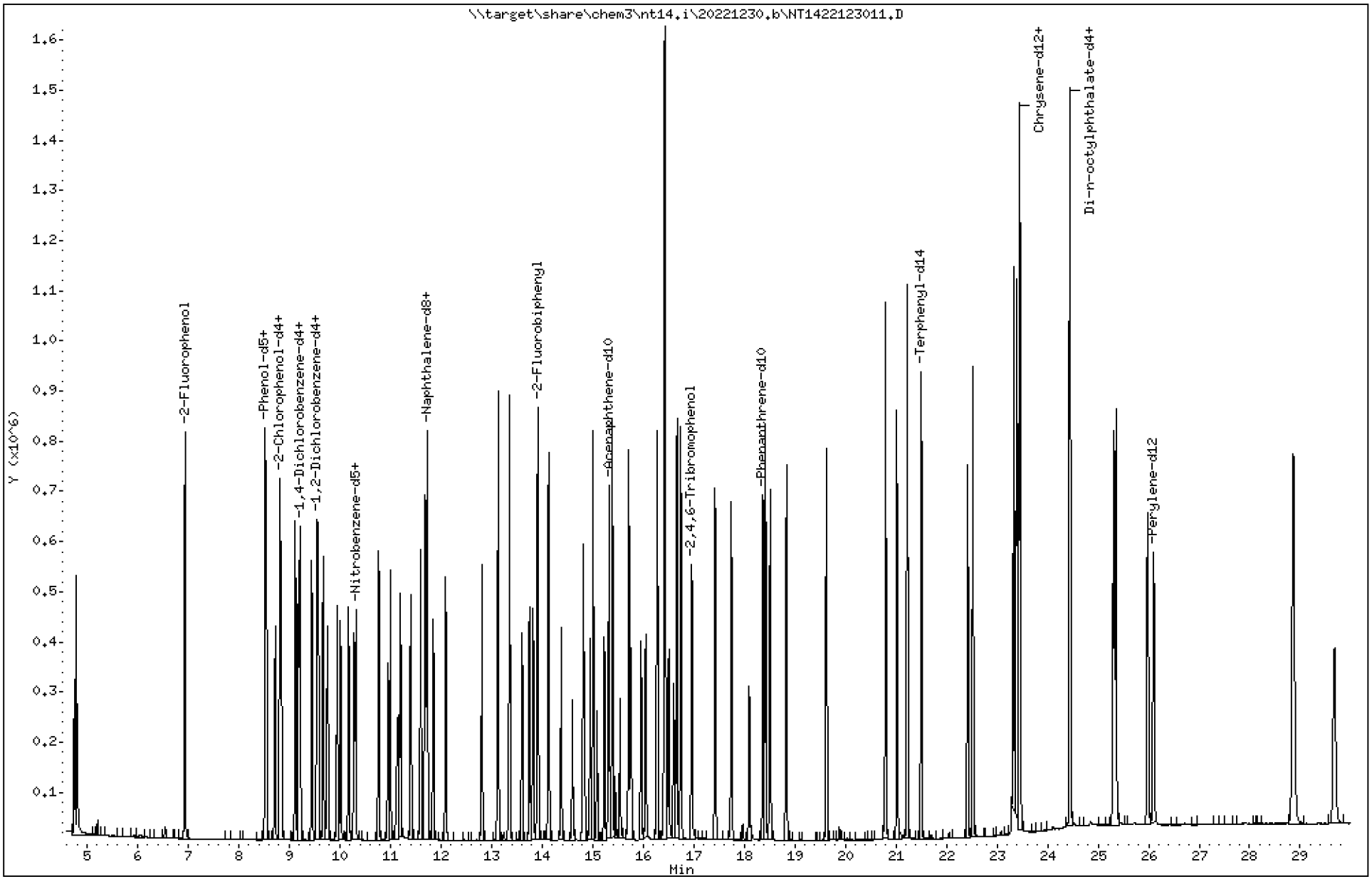
Instrument: nt14.i

Sample Info: SKL0355-SCV1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

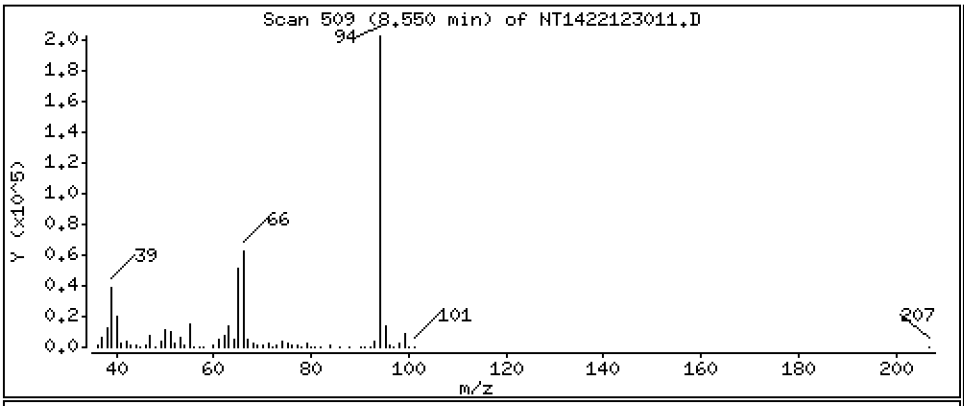
Operator: VTS

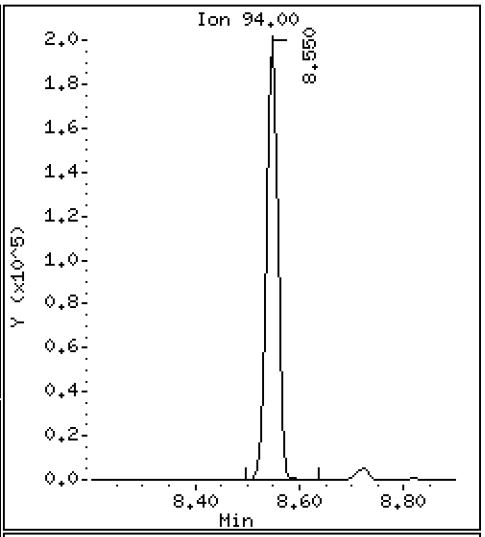
Column phase: ZB-5msi

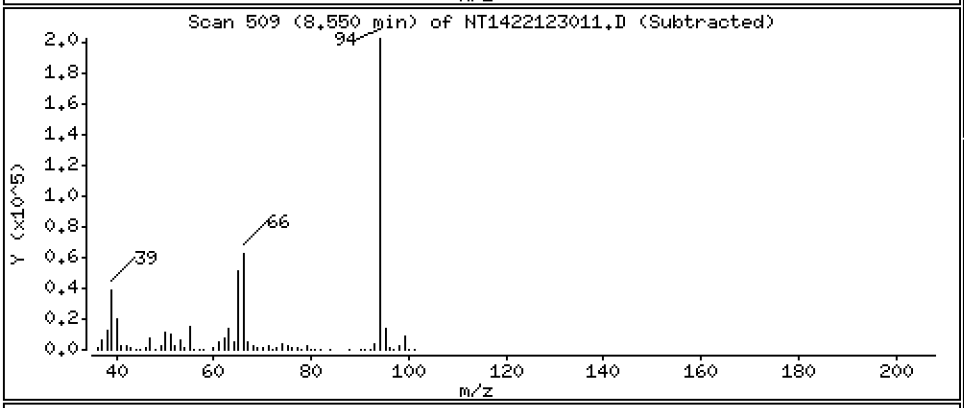
Column diameter: 0.25

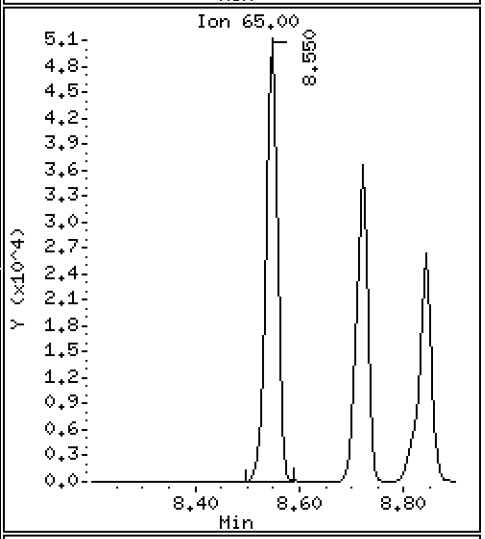
3 Phenol

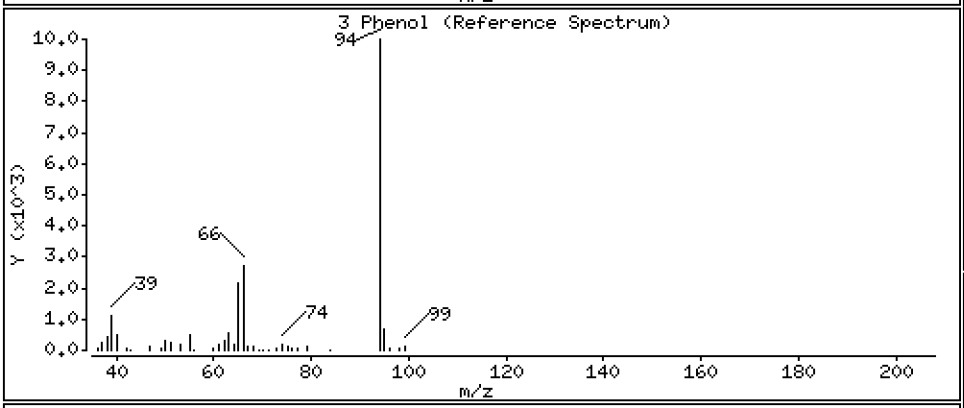
Concentration: 4.351 ug/mL

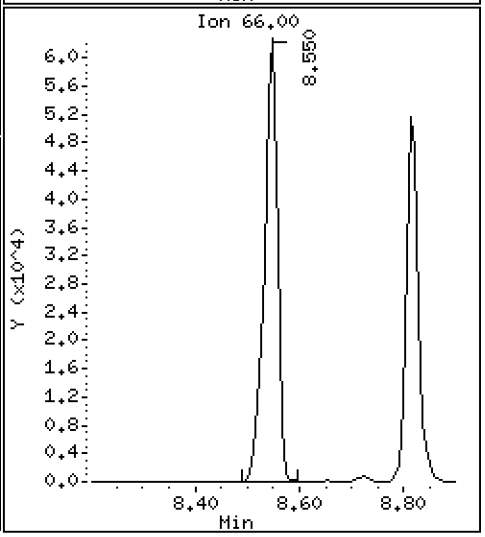


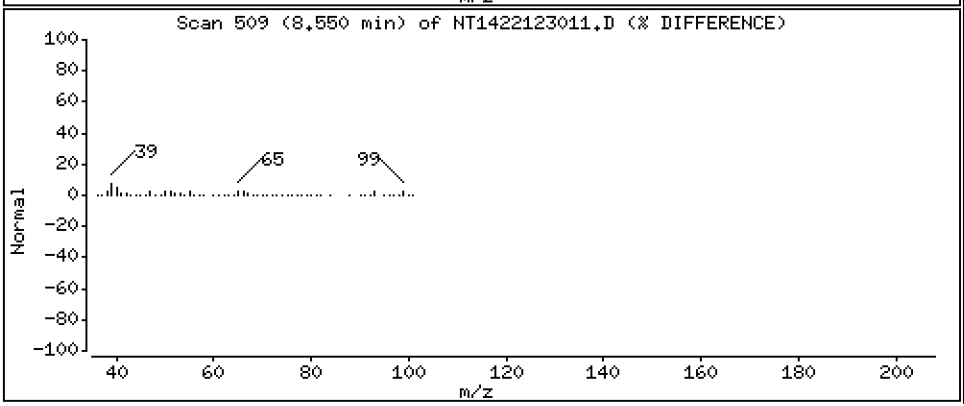












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

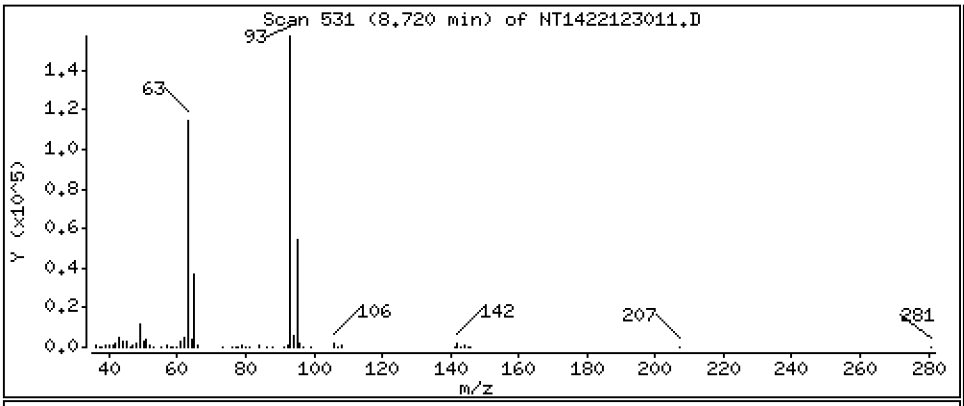
Operator: VTS

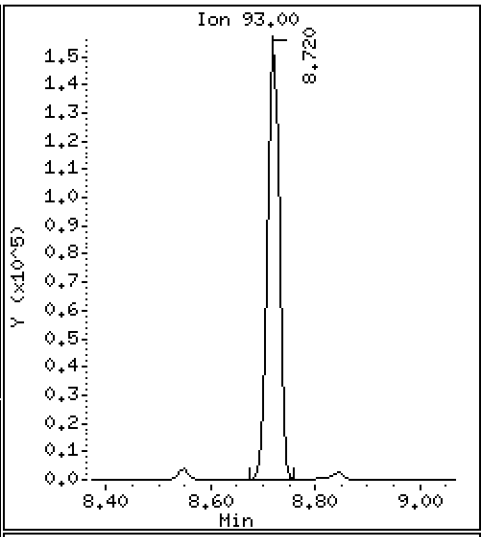
Column phase: ZB-5msi

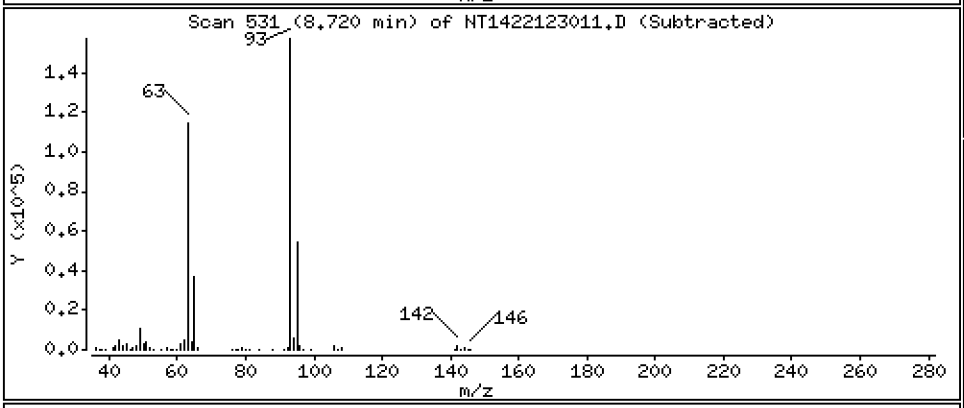
Column diameter: 0.25

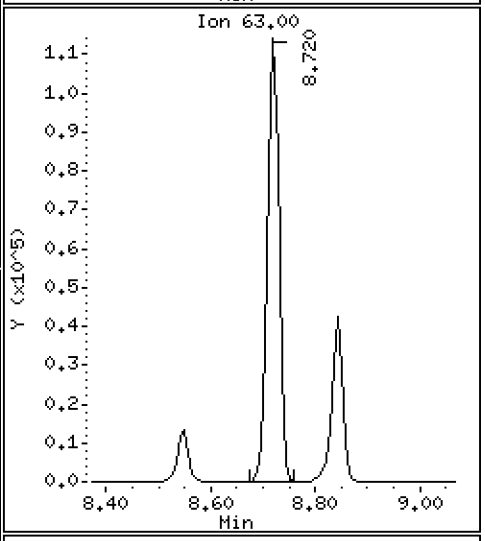
4 Bis(2-Chloroethyl)ether

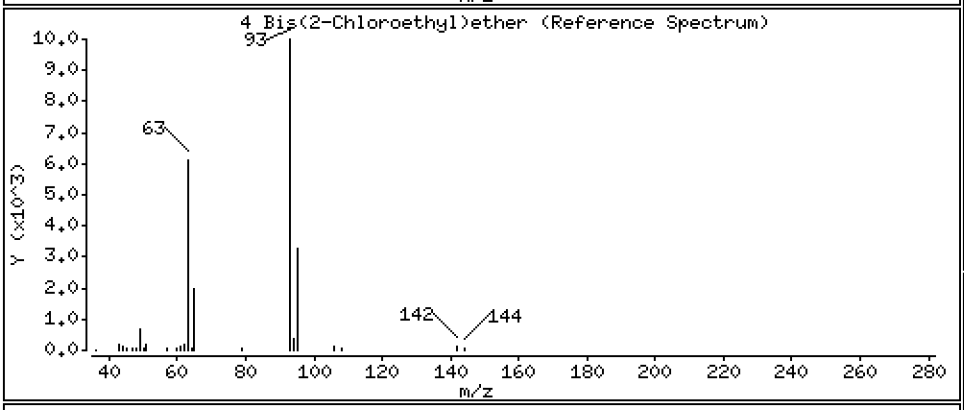
Concentration: 5.095 ug/mL

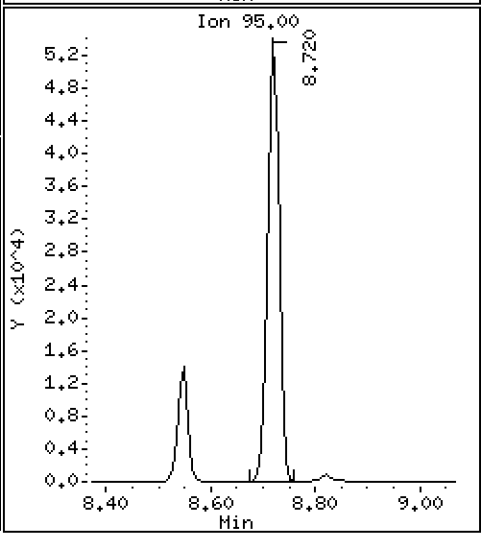


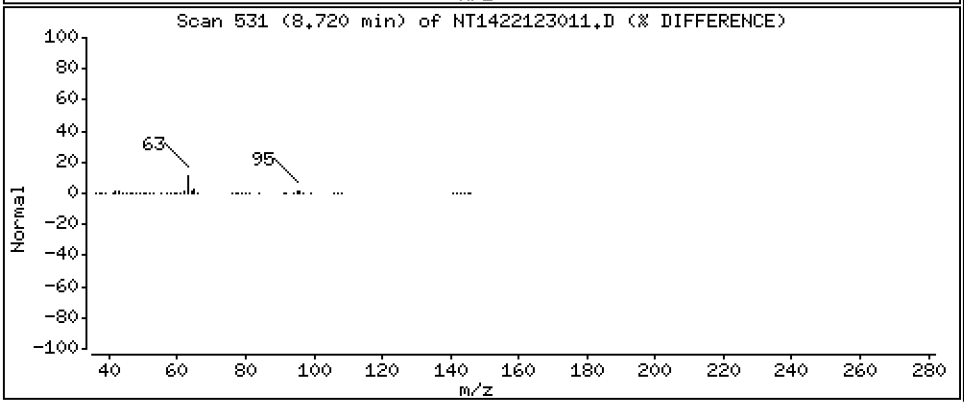












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

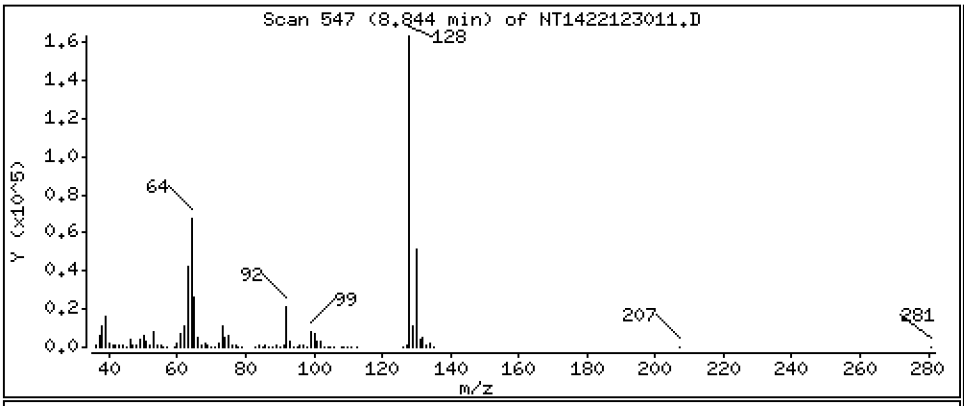
Operator: VTS

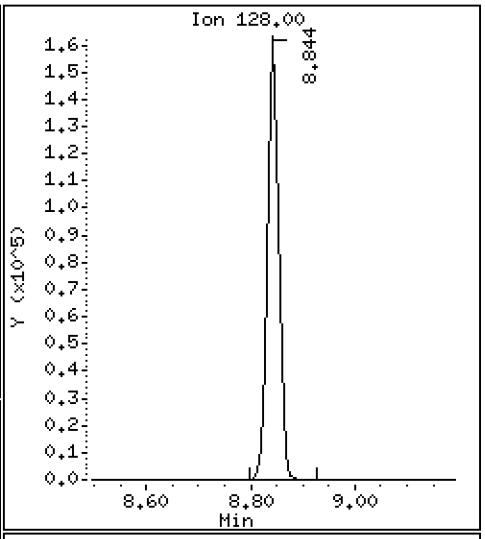
Column phase: ZB-5msi

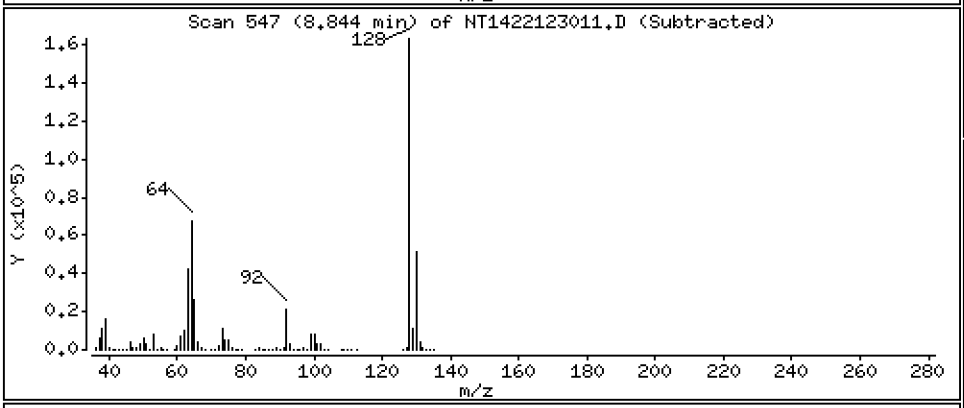
Column diameter: 0.25

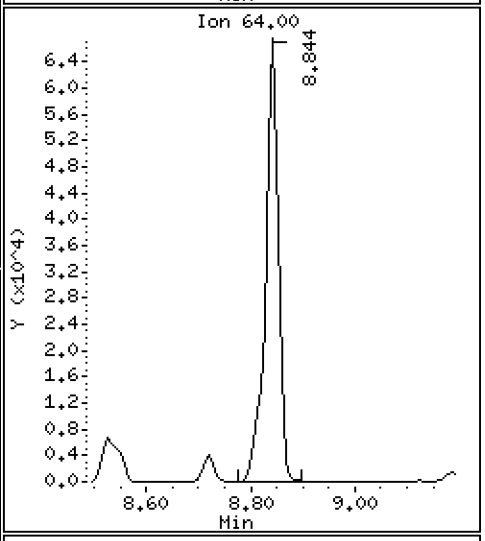
6 2-Chlorophenol

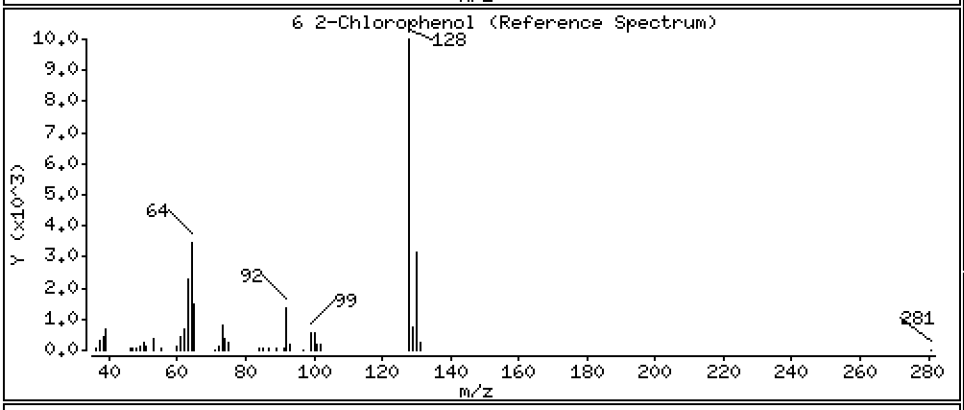
Concentration: 4.461 ug/mL

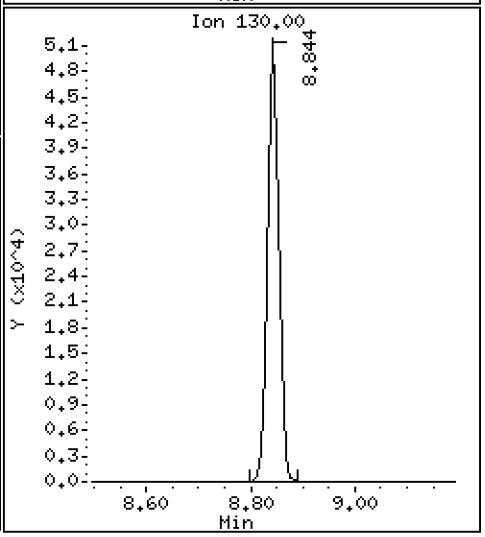


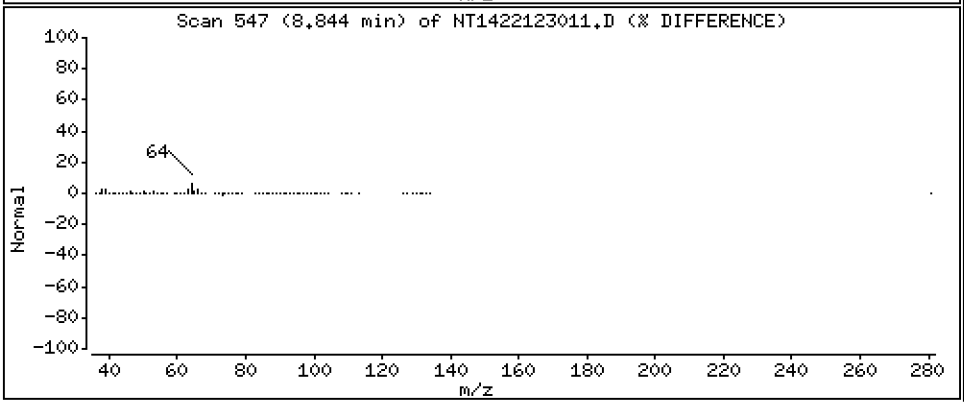












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

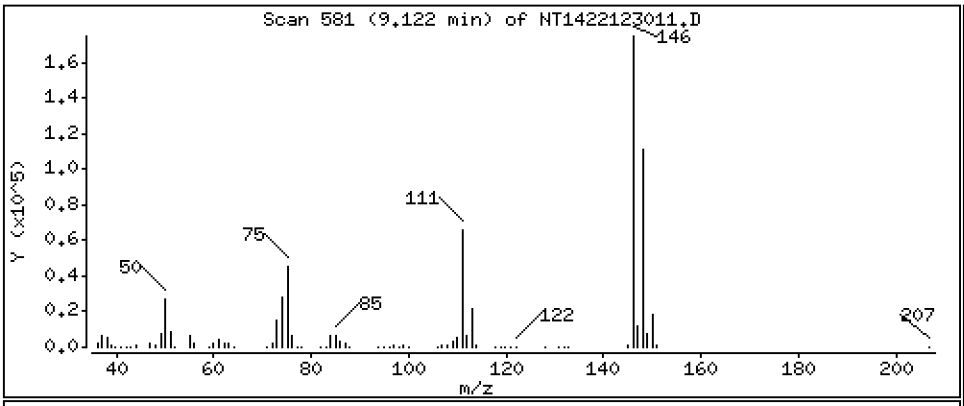
Operator: VTS

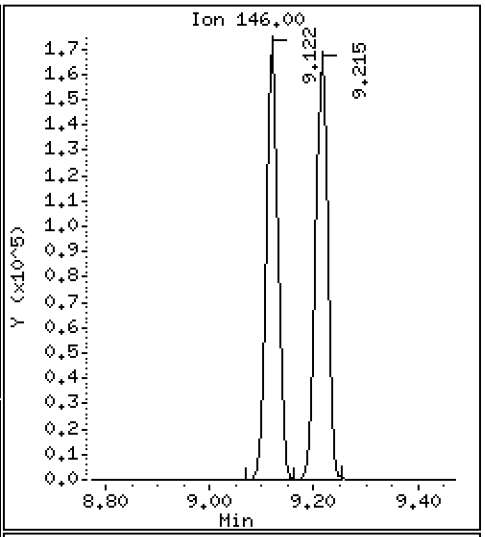
Column phase: ZB-5msi

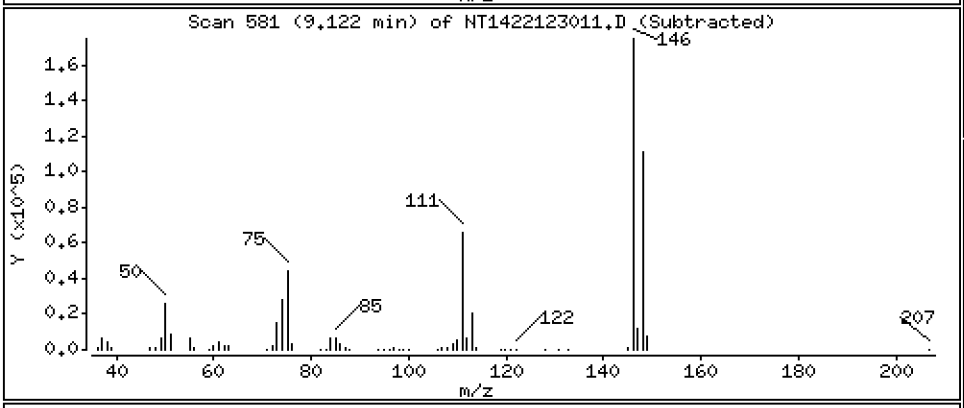
Column diameter: 0.25

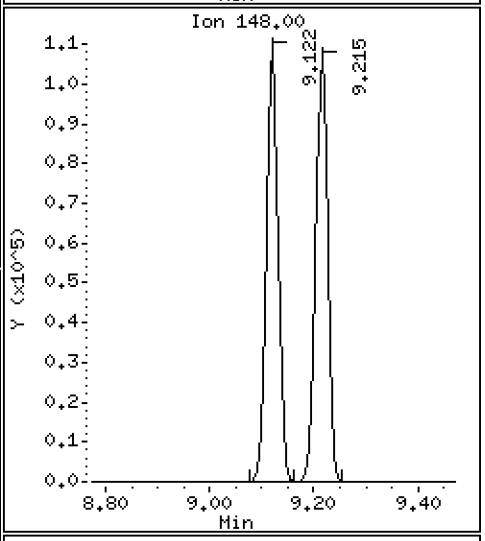
7 1,3-Dichlorobenzene

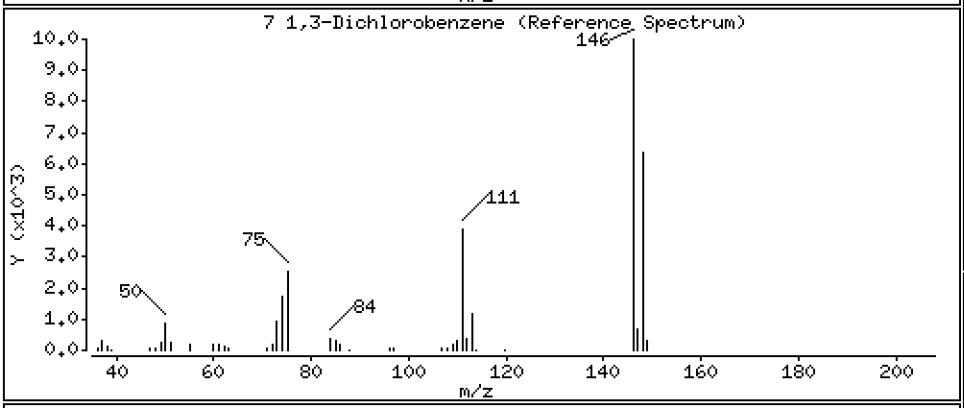
Concentration: 4.754 ug/mL

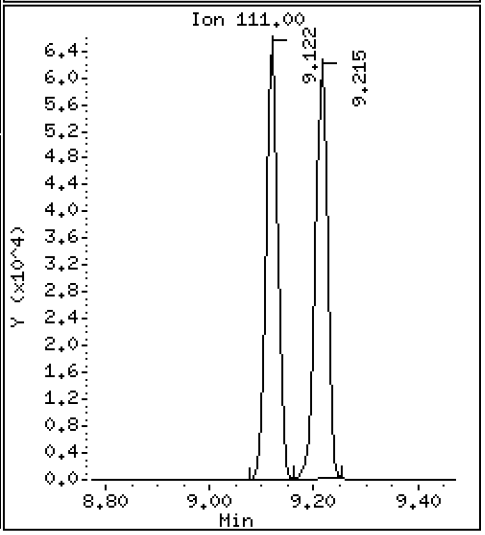


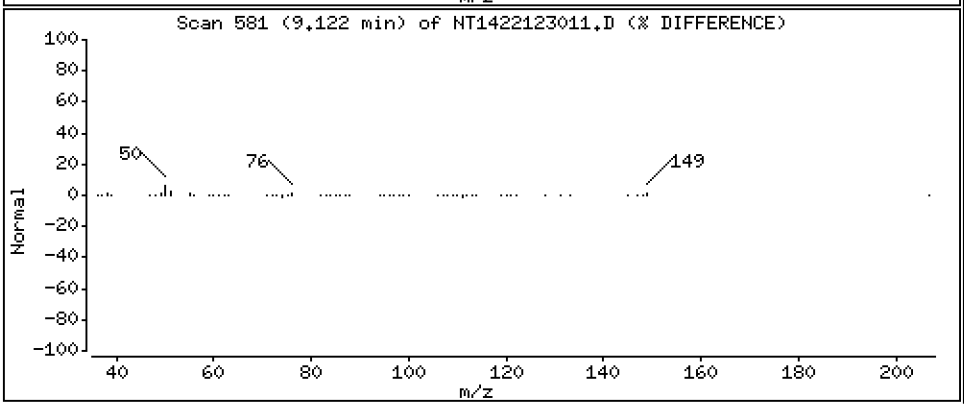












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

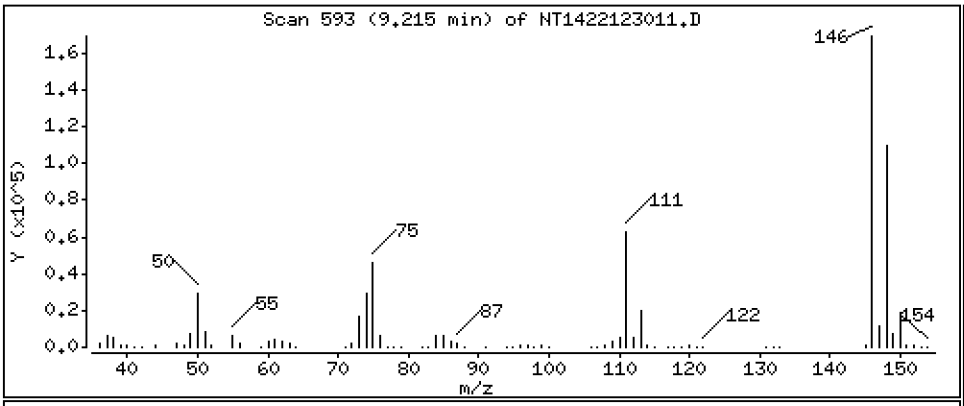
Operator: VTS

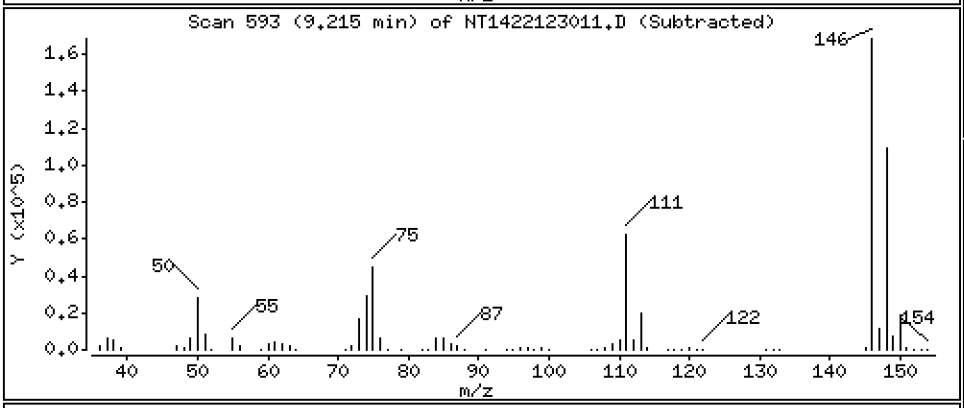
Column phase: ZB-5msi

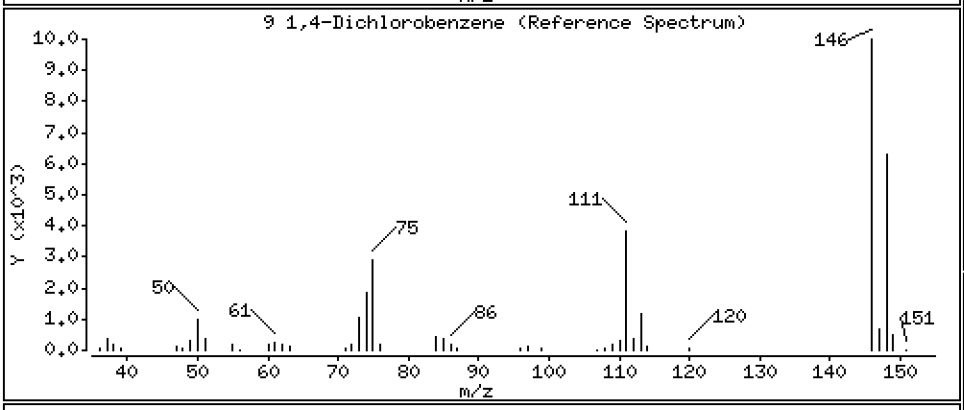
Column diameter: 0.25

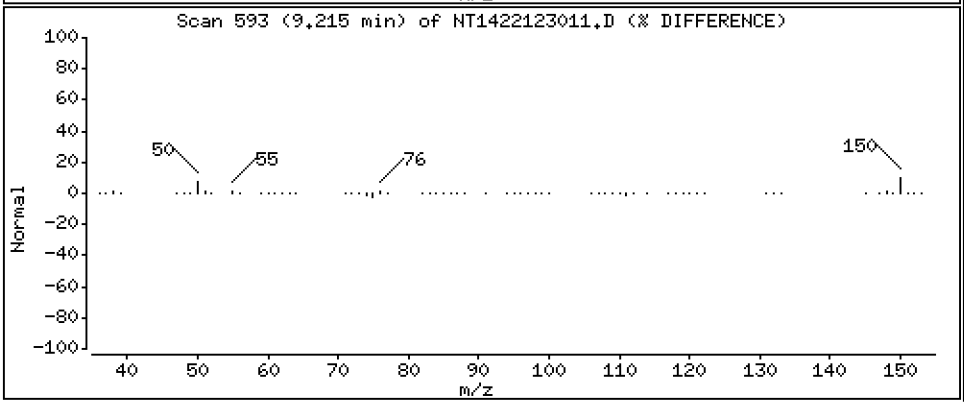
9 1,4-Dichlorobenzene

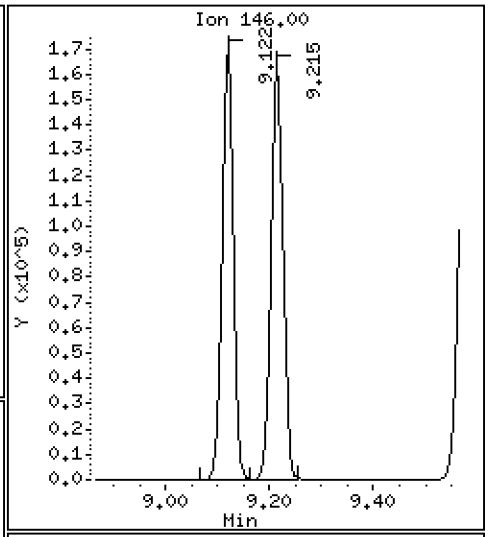
Concentration: 4.773 ug/mL

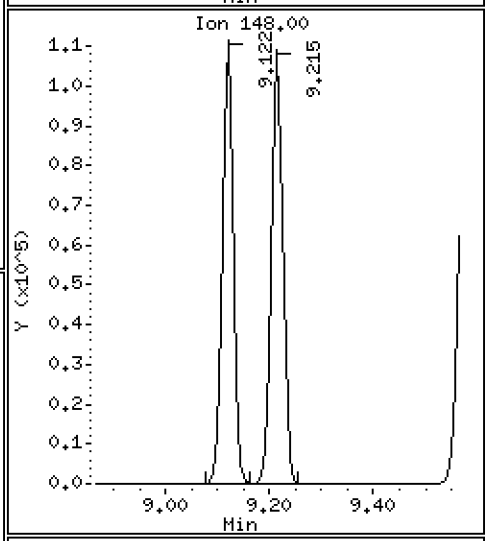


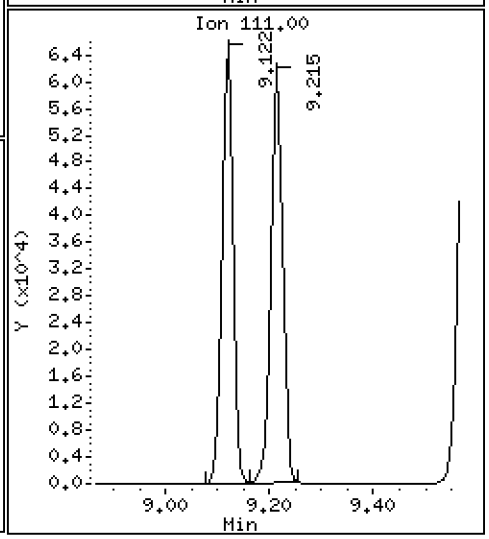












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

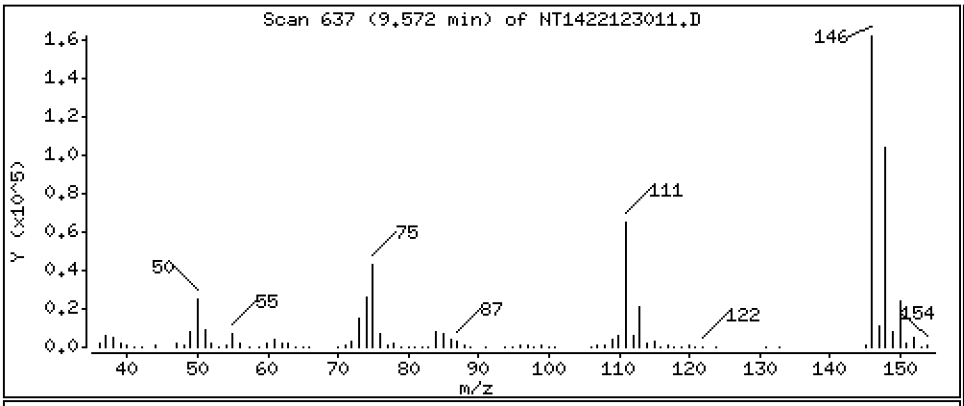
Operator: VTS

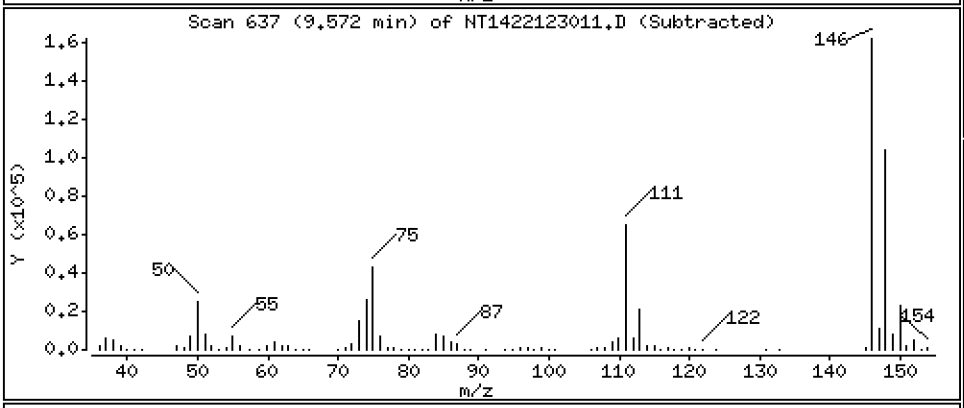
Column phase: ZB-5msi

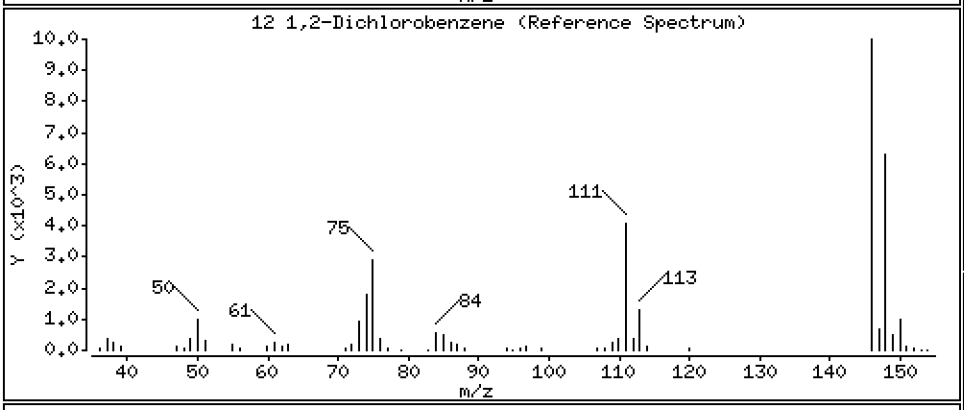
Column diameter: 0.25

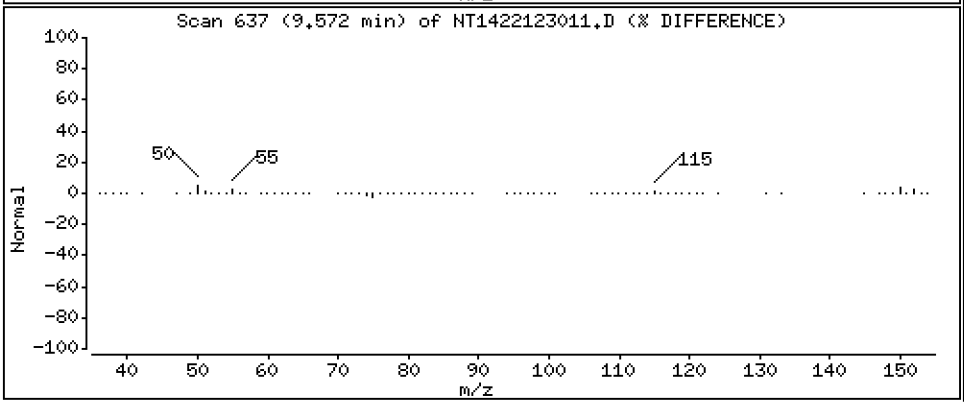
12 1,2-Dichlorobenzene

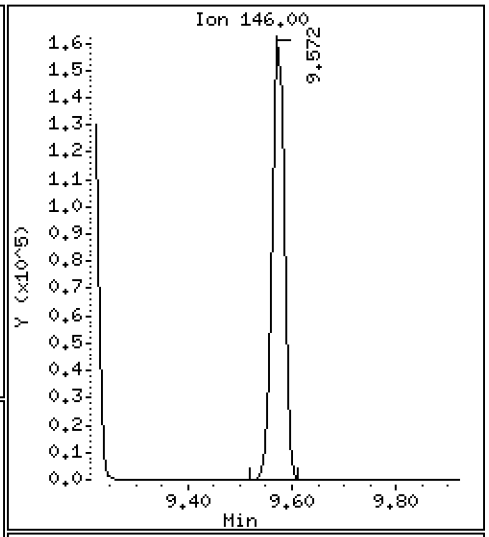
Concentration: 4.767 ug/mL

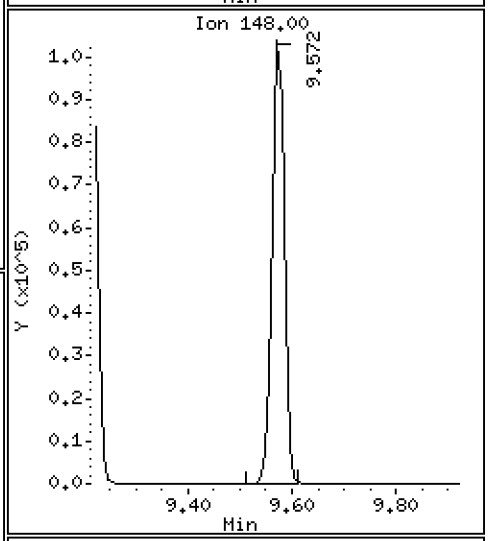


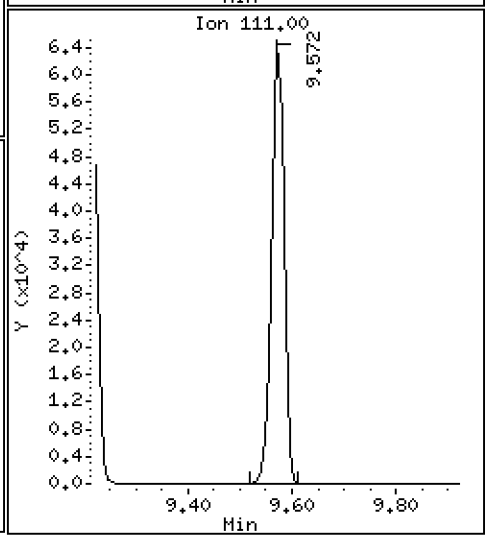












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

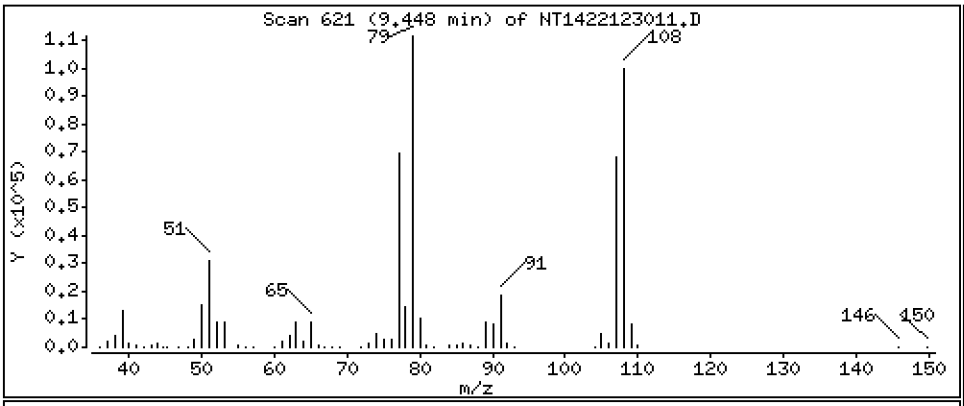
Operator: VTS

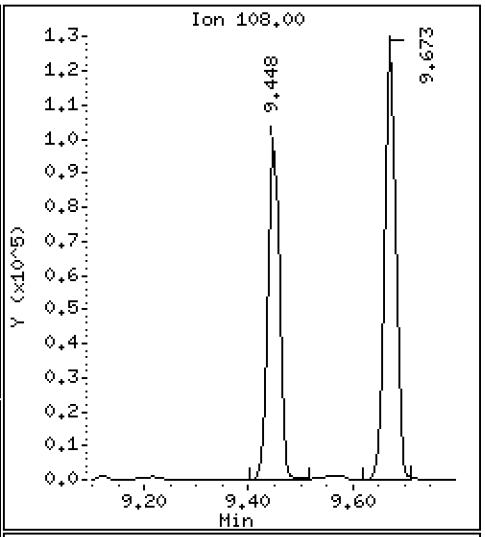
Column phase: ZB-5msi

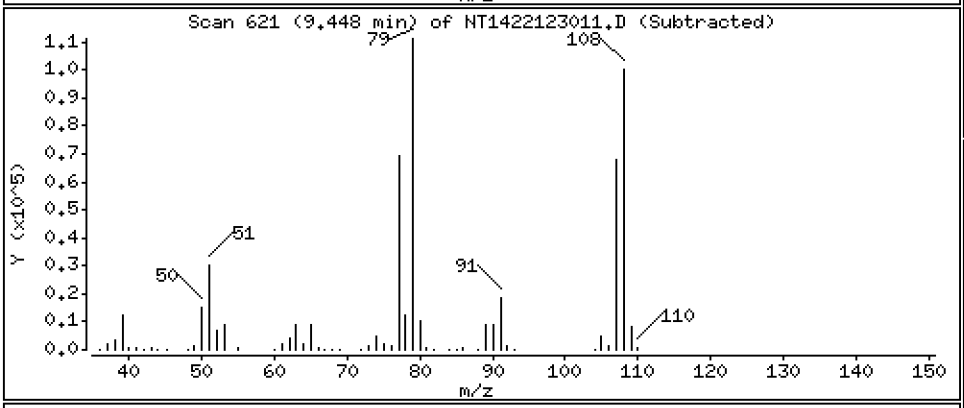
Column diameter: 0.25

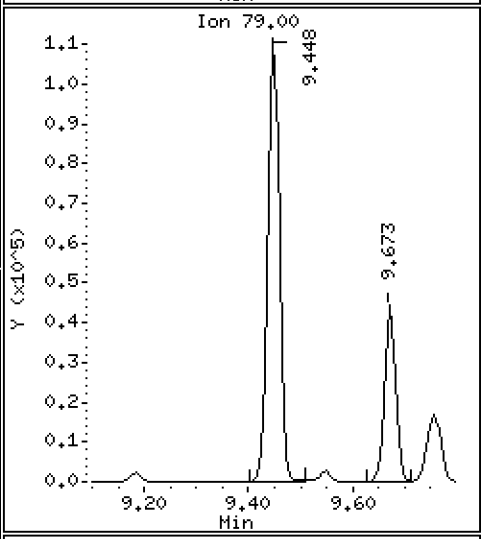
11 Benzyl alcohol

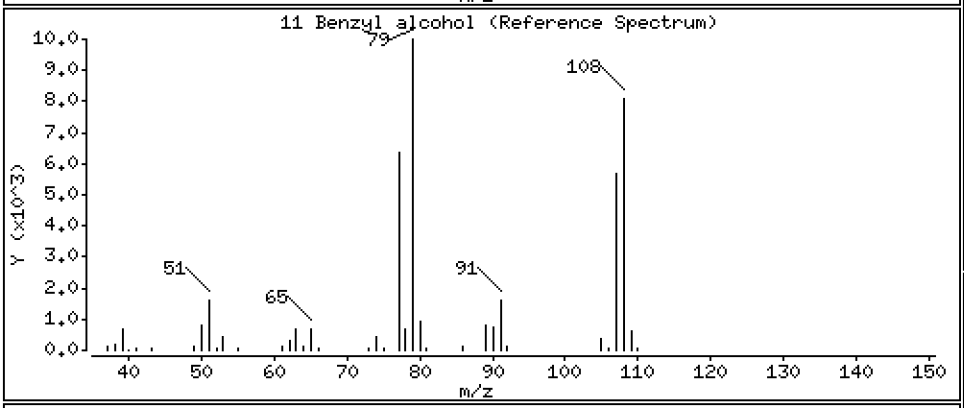
Concentration: 4.980 ug/mL

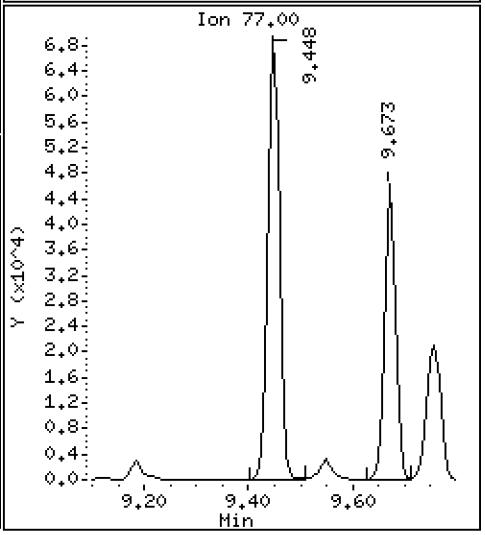


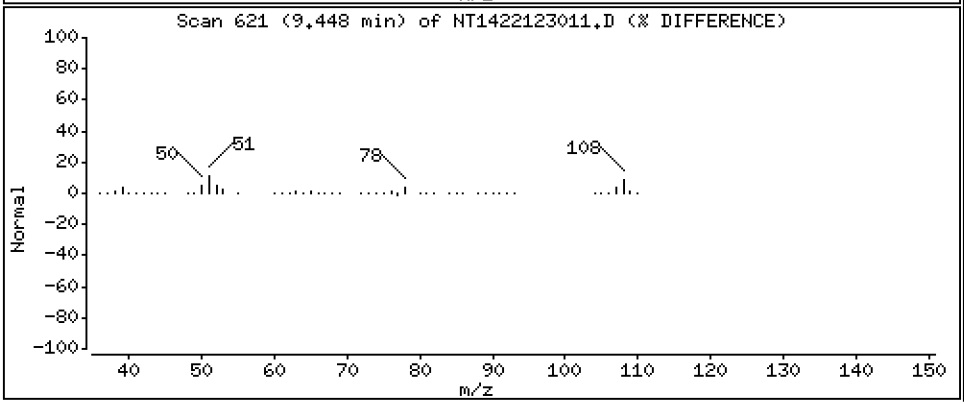












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

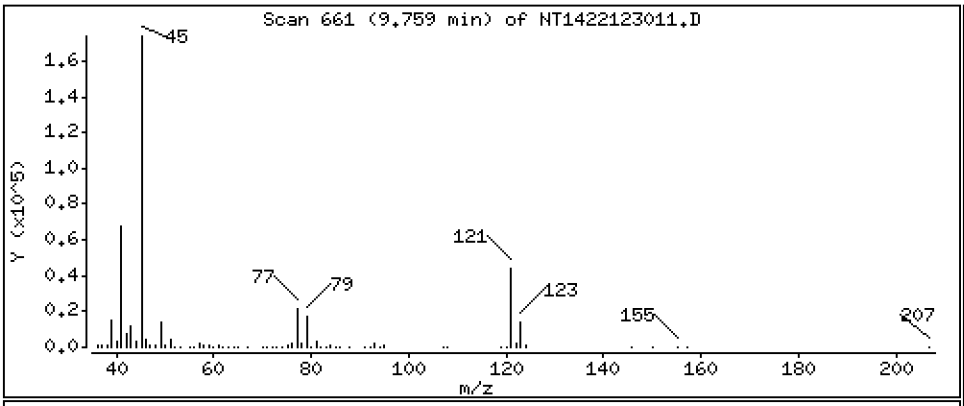
Operator: VTS

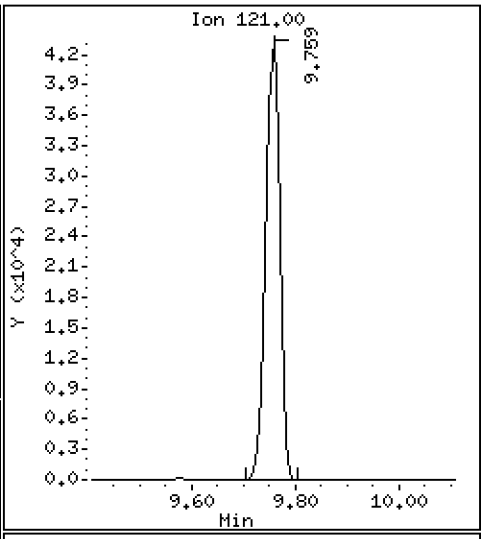
Column phase: ZB-5msi

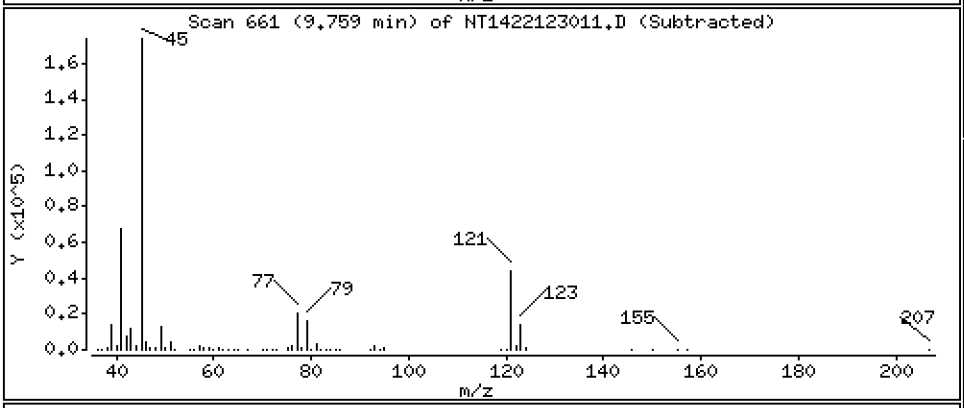
Column diameter: 0.25

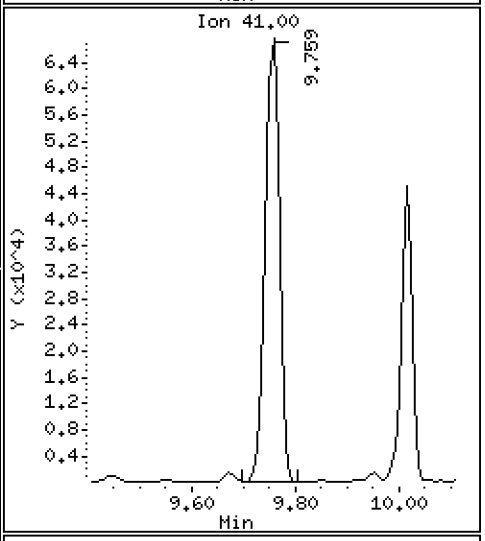
14 2,2'-oxybis(1-Chloropropane)

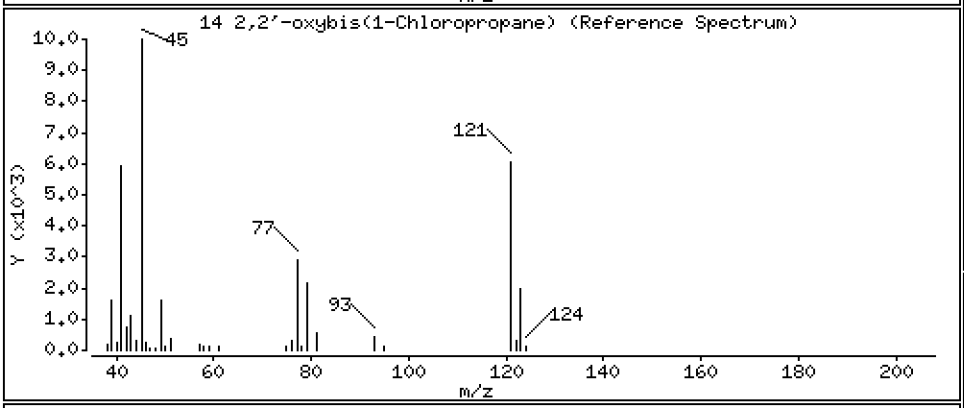
Concentration: 5.193 ug/mL

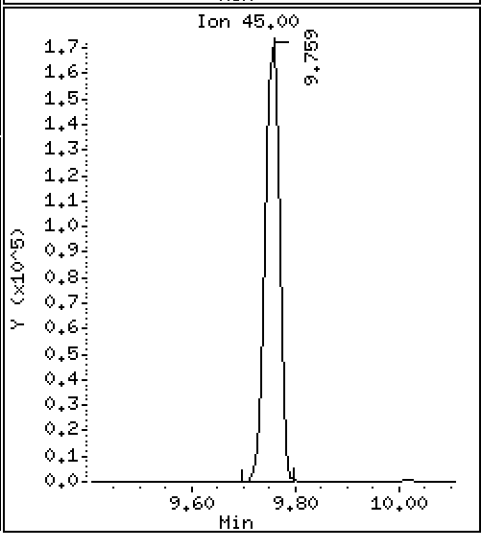


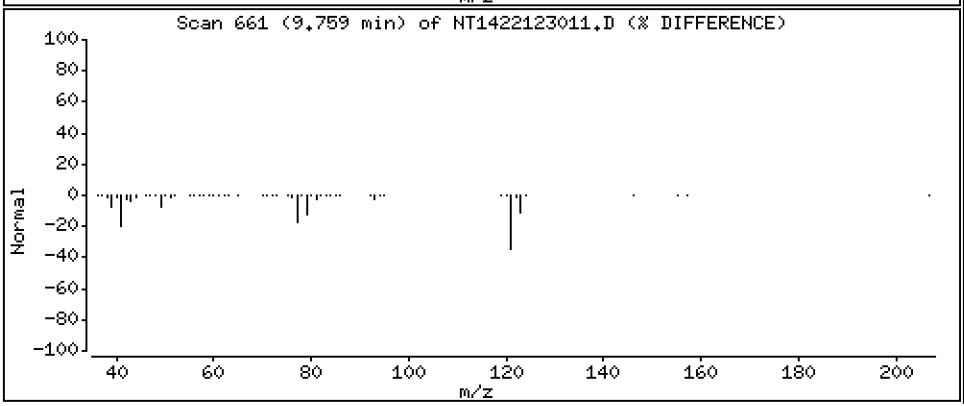












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

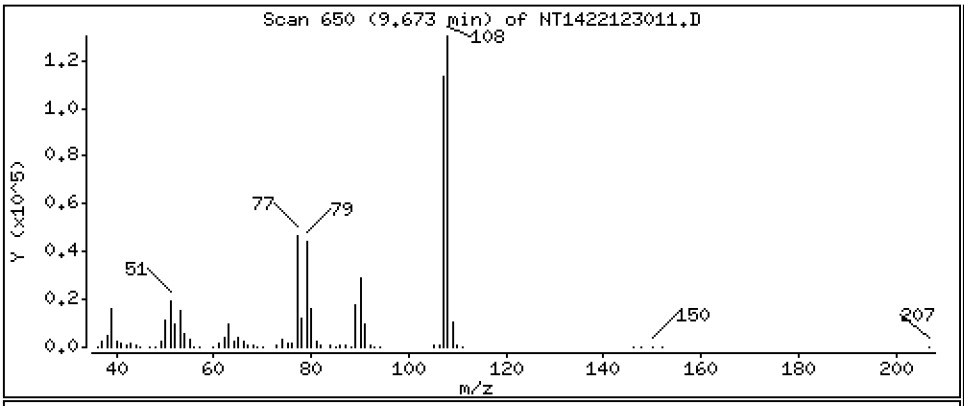
Operator: VTS

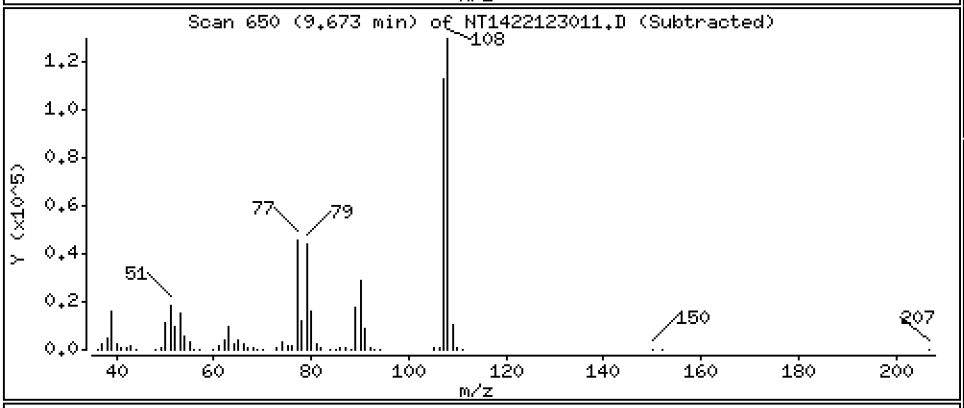
Column phase: ZB-5msi

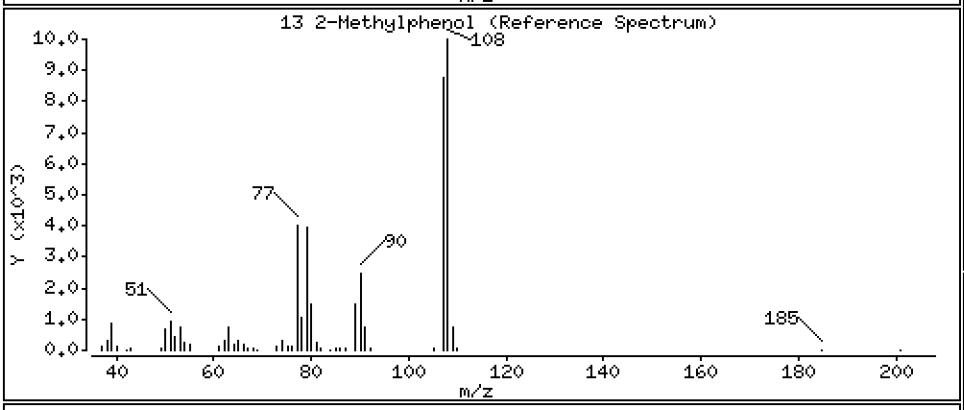
Column diameter: 0.25

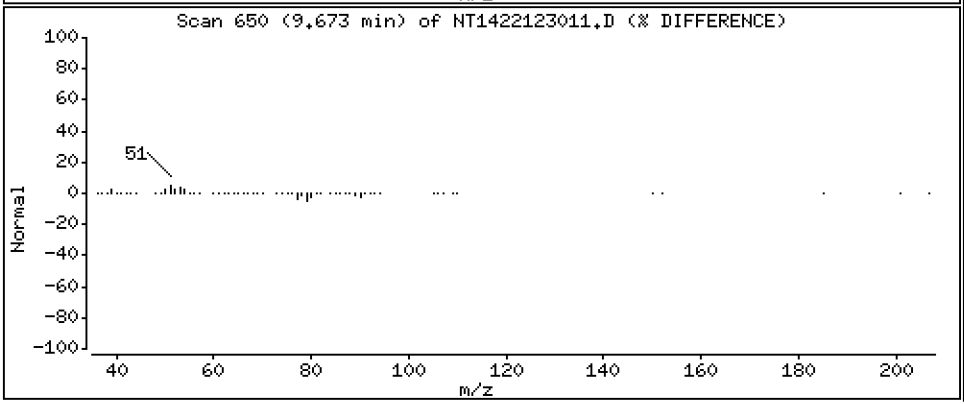
13 2-Methylphenol

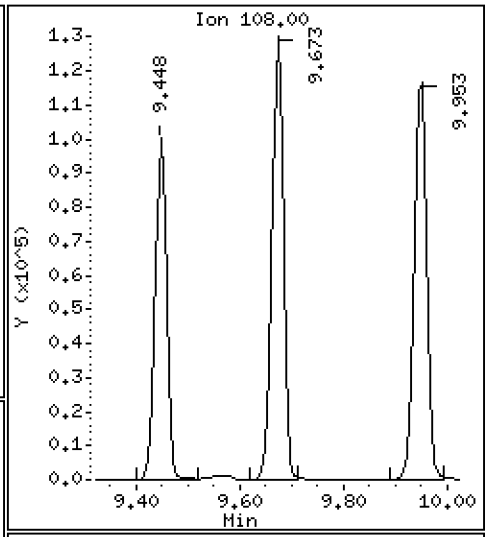
Concentration: 3.927 ug/mL

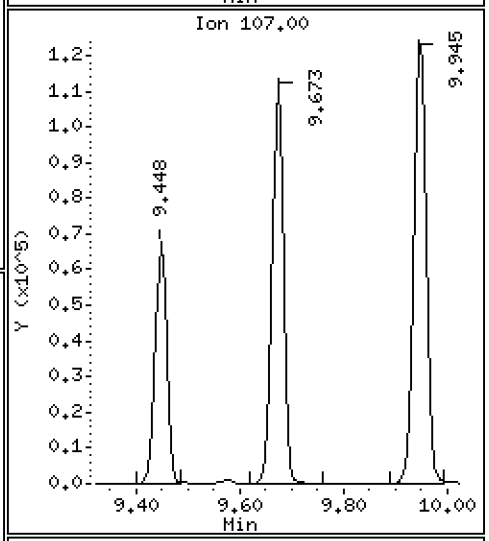


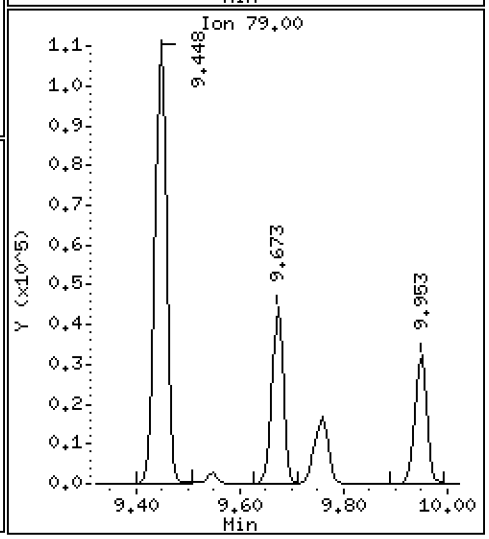












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

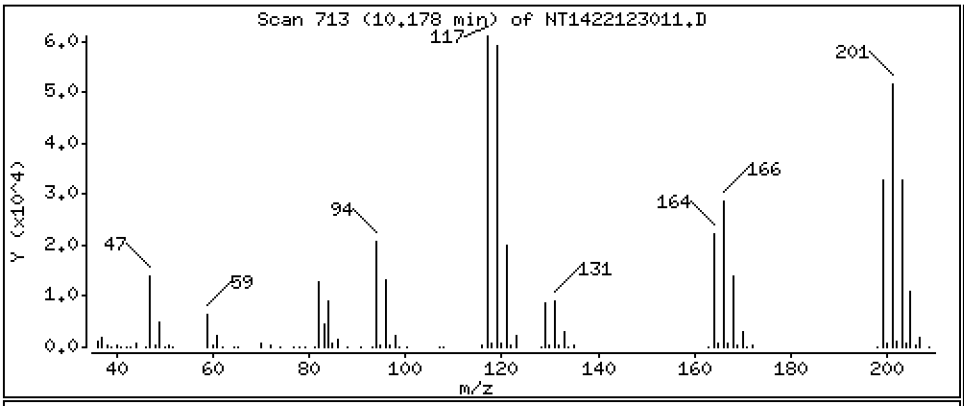
Operator: VTS

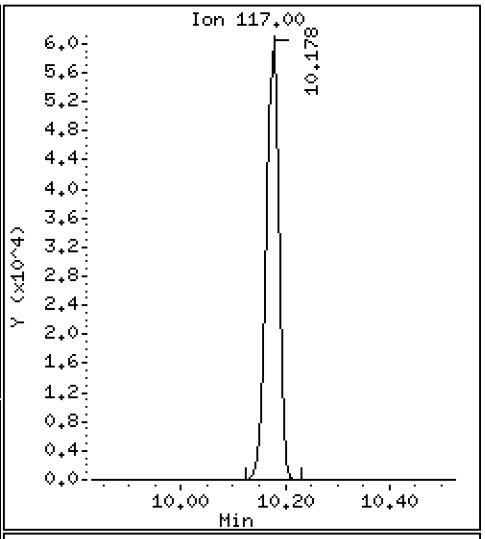
Column phase: ZB-5msi

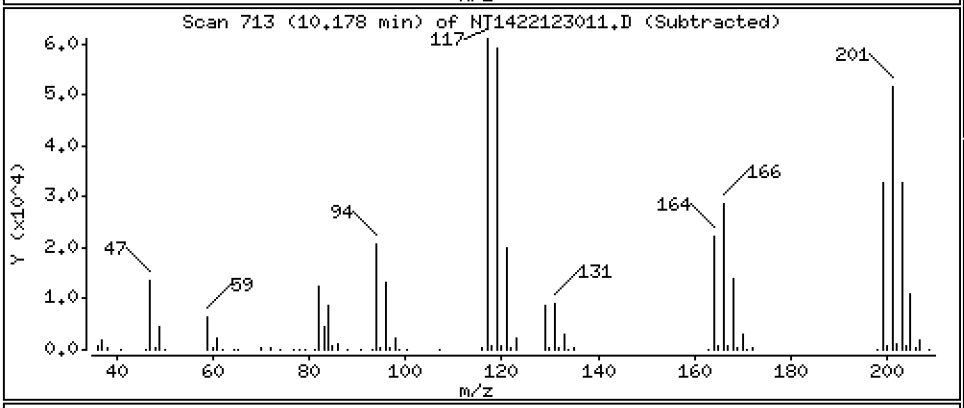
Column diameter: 0.25

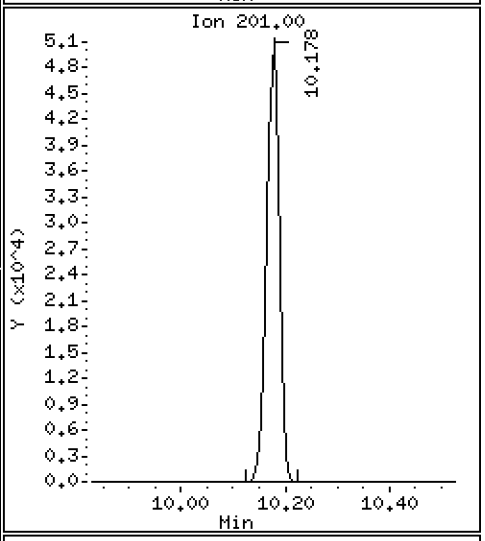
17 Hexachloroethane

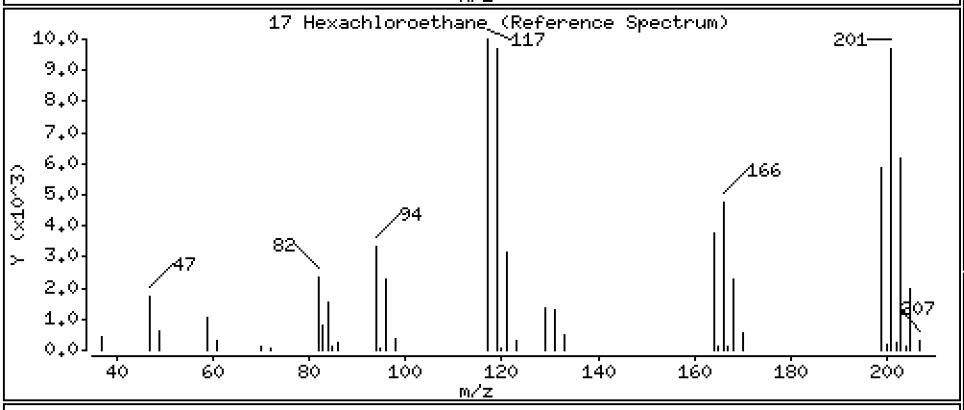
Concentration: 4.929 ug/mL

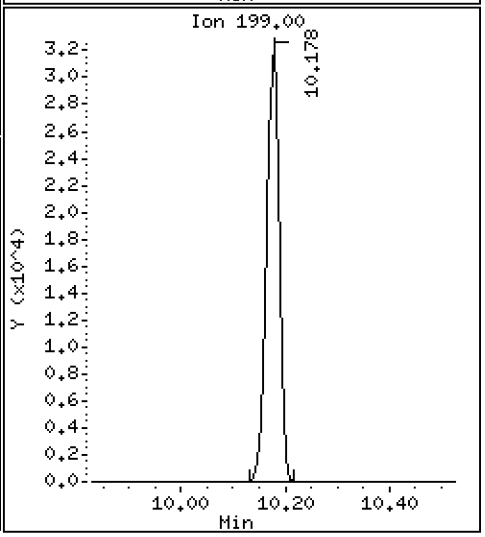


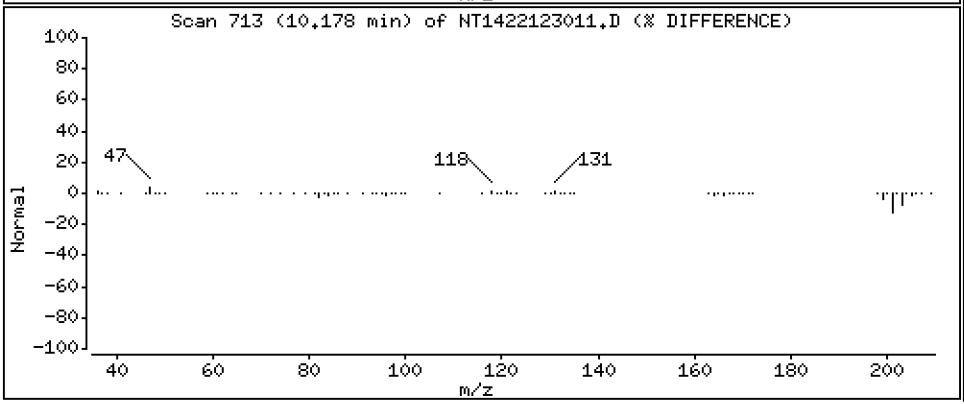












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

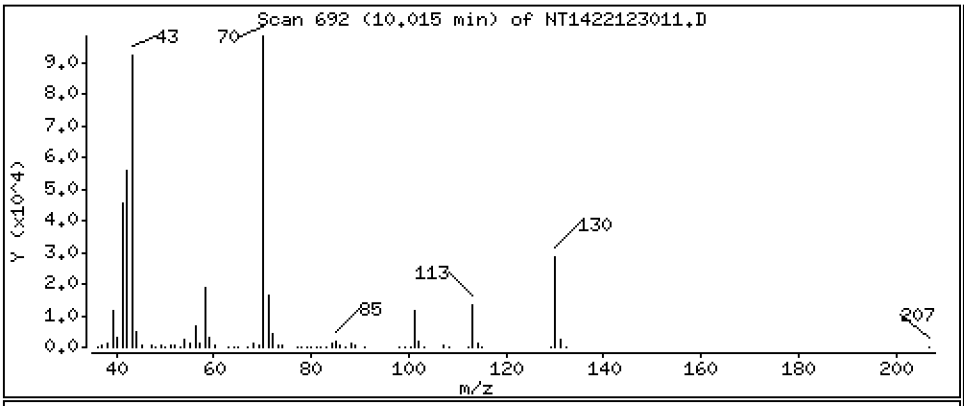
Operator: VTS

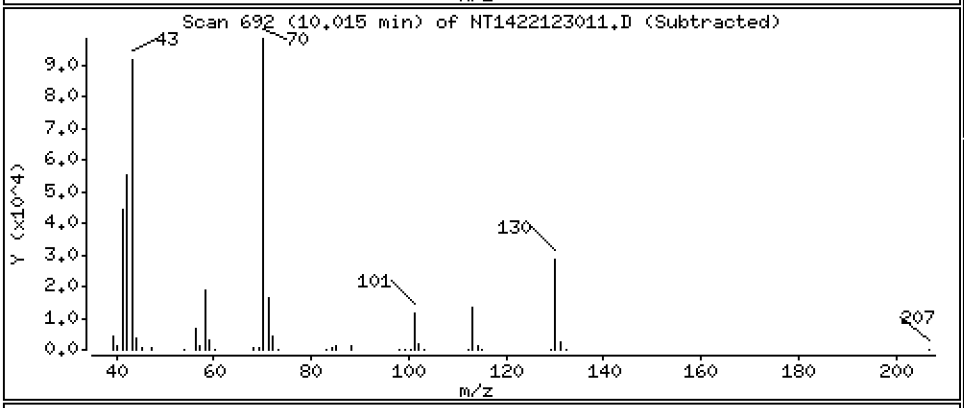
Column phase: ZB-5msi

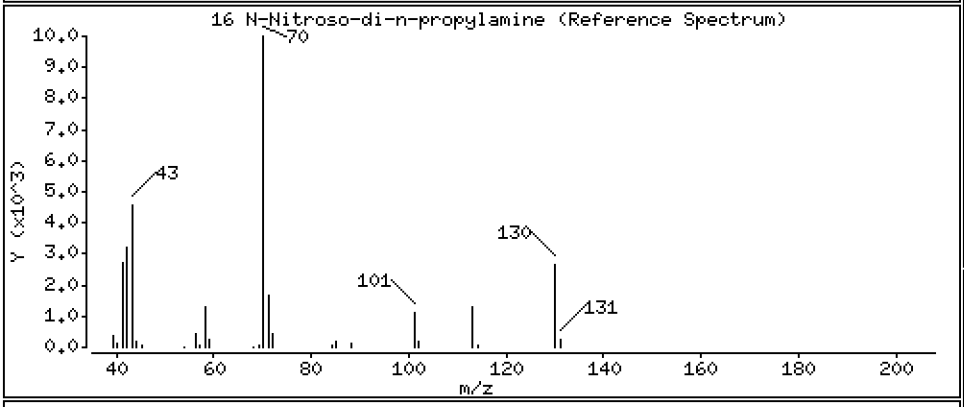
Column diameter: 0.25

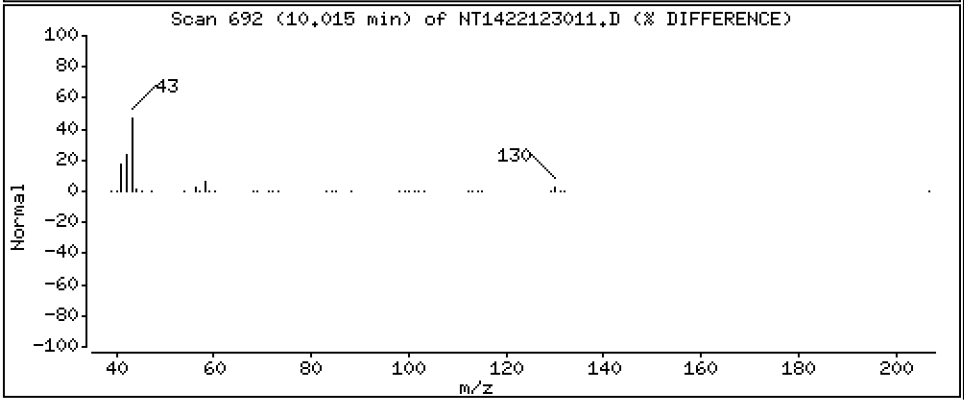
16 N-Nitroso-di-n-propylamine

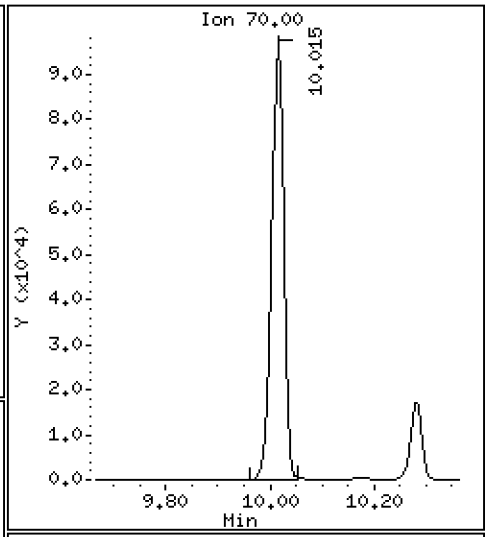
Concentration: 5.128 ug/mL

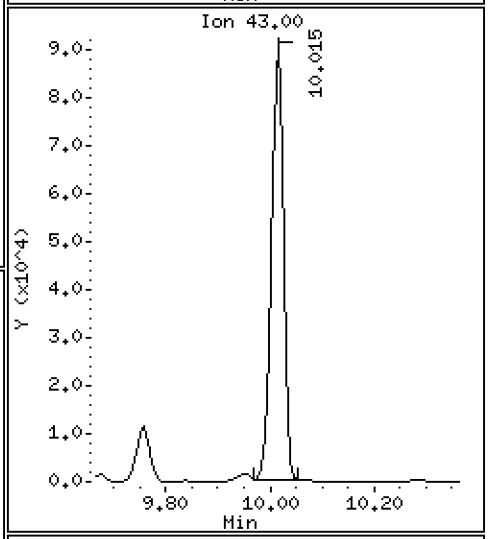


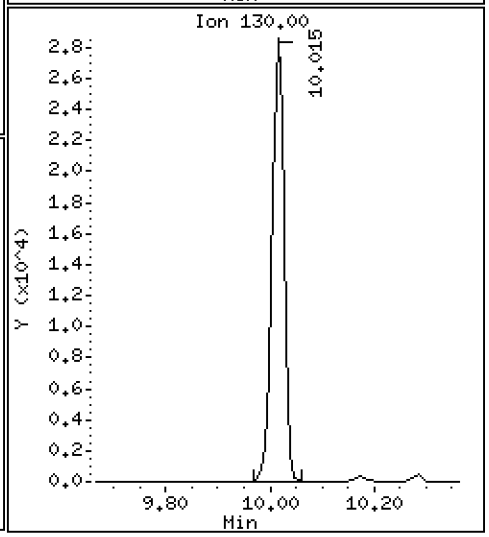












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

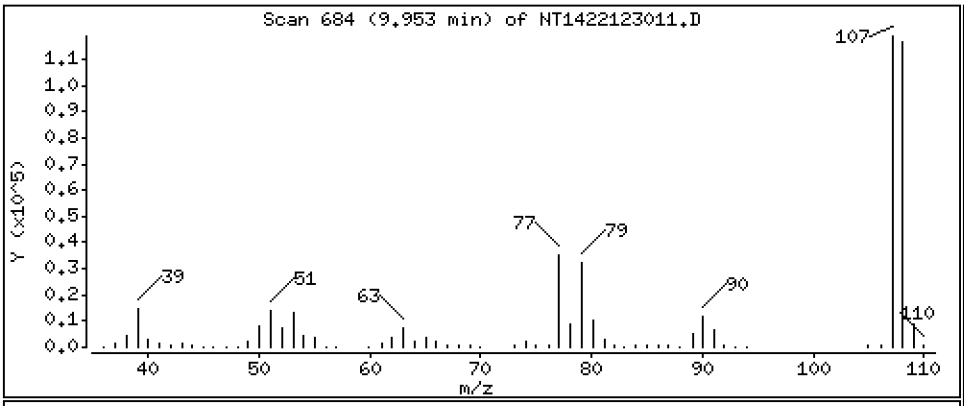
Operator: VTS

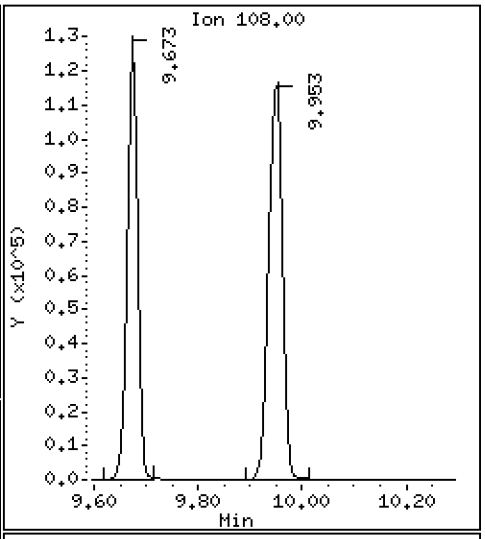
Column phase: ZB-5msi

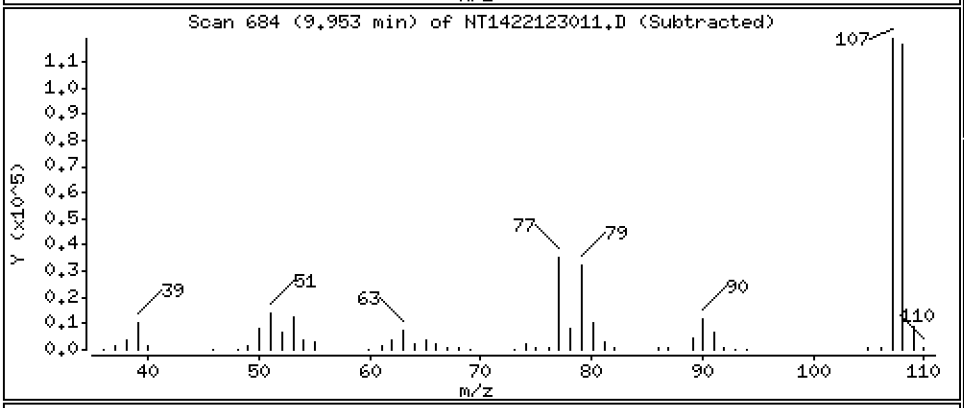
Column diameter: 0.25

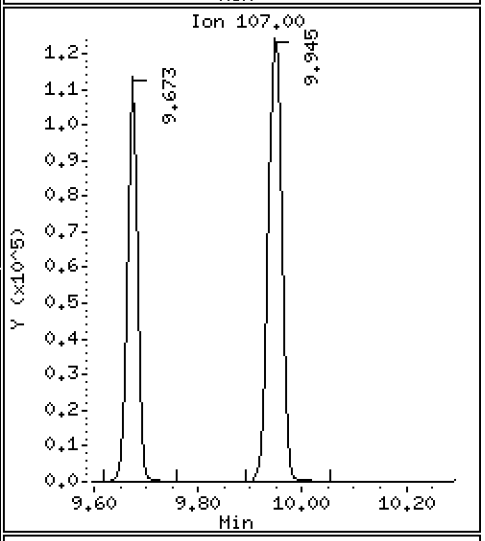
15 4-Methylphenol

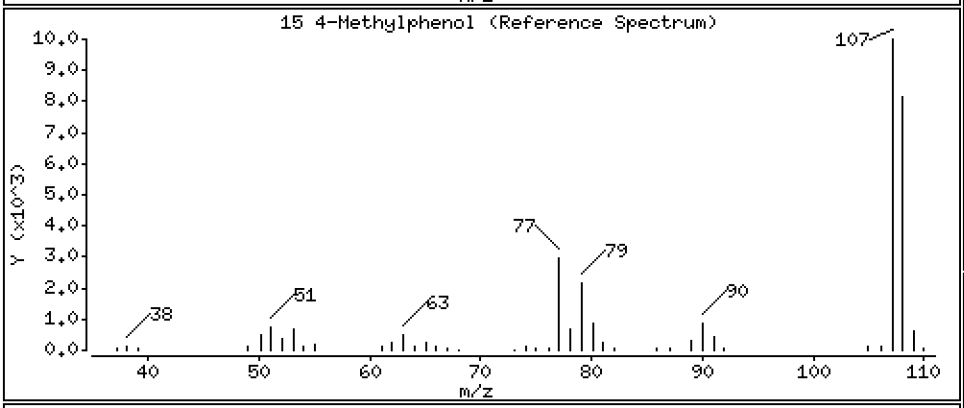
Concentration: 4.122 ug/mL

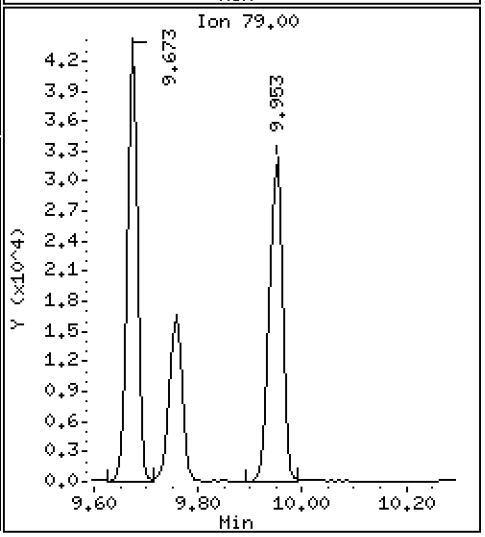


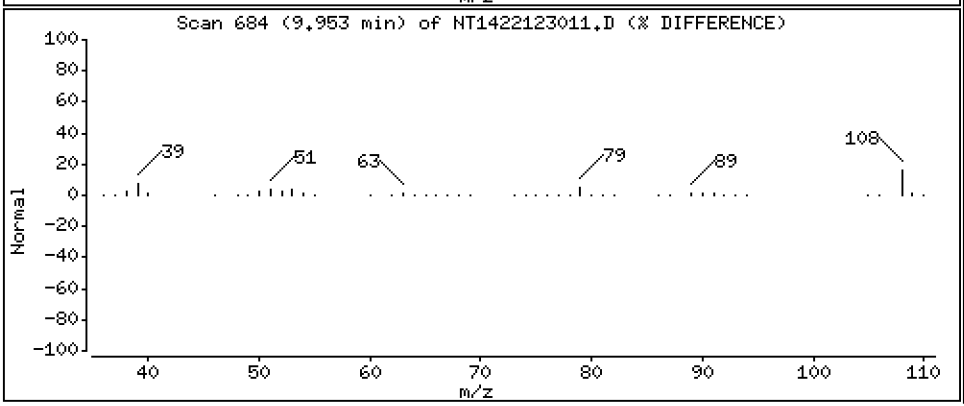












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

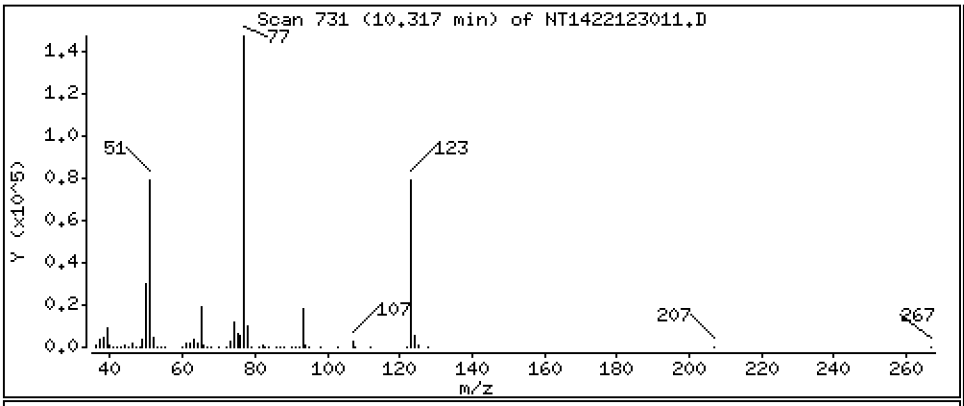
Operator: VTS

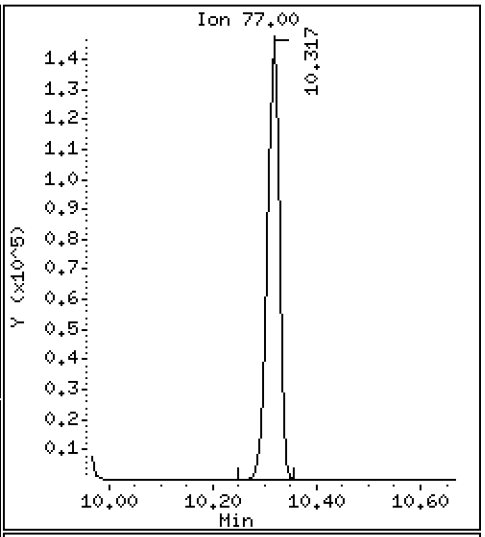
Column phase: ZB-5msi

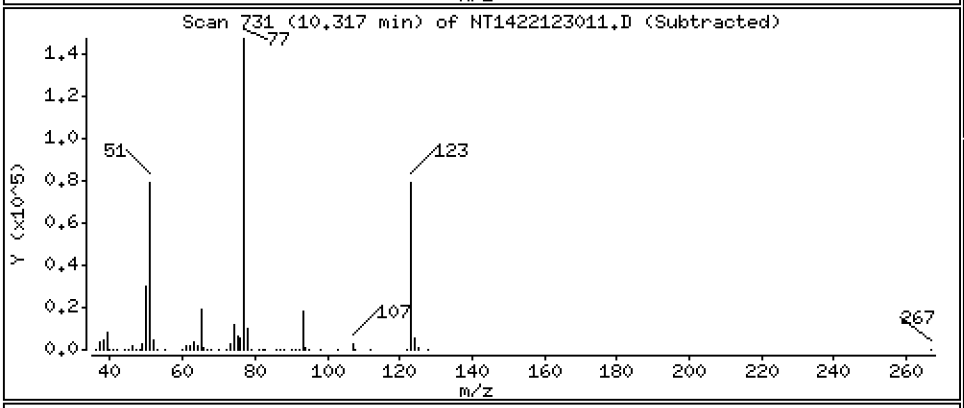
Column diameter: 0.25

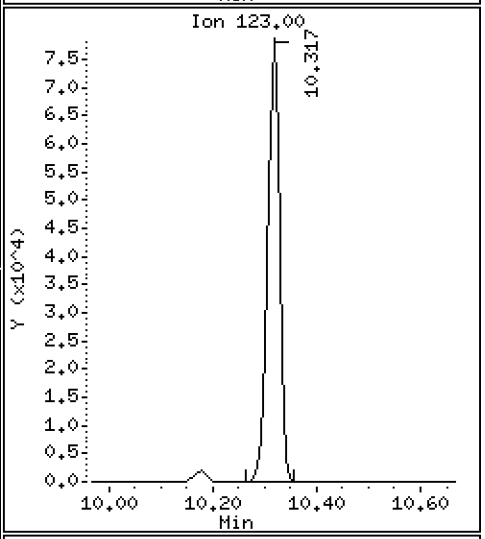
19 Nitrobenzene

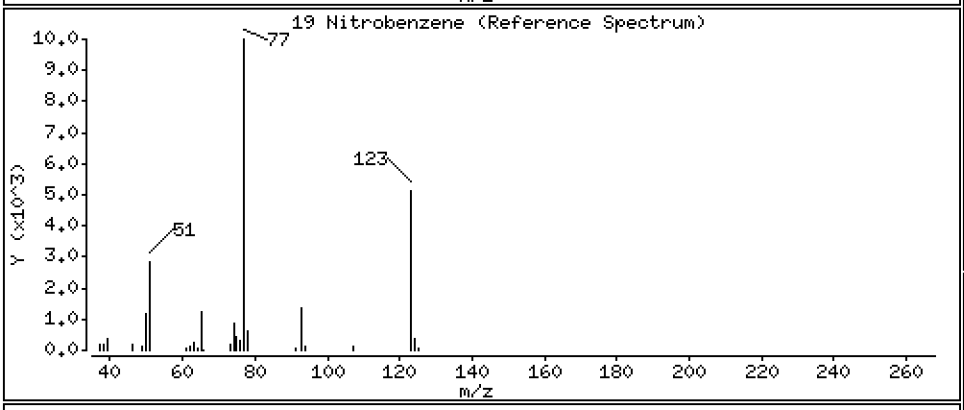
Concentration: 4.880 ug/mL

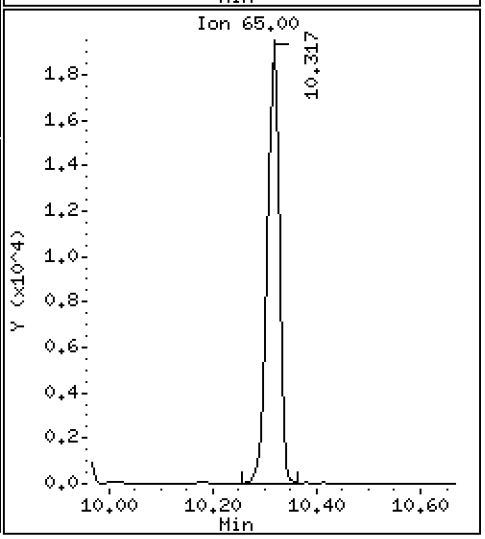


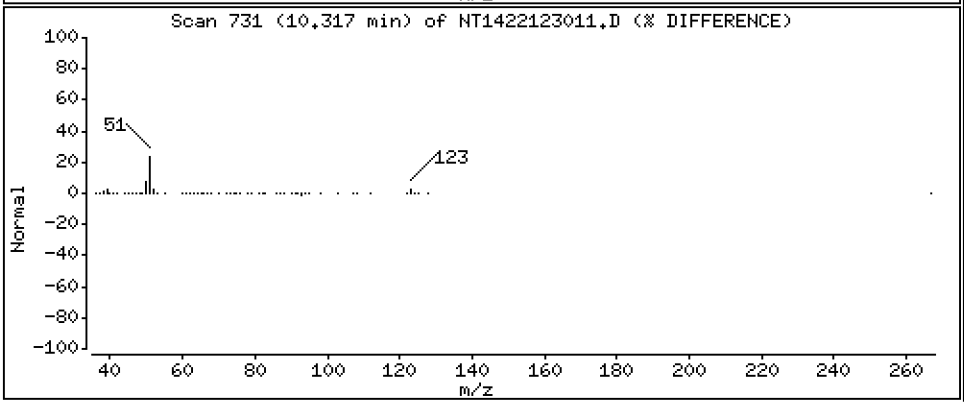












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

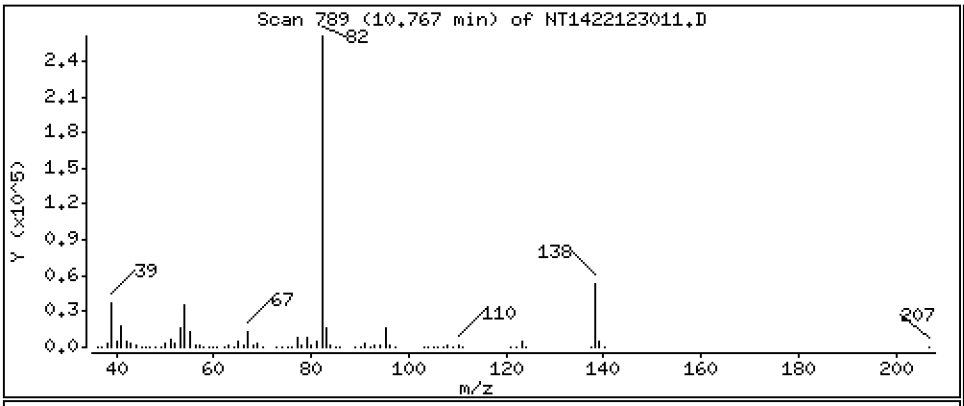
Operator: VTS

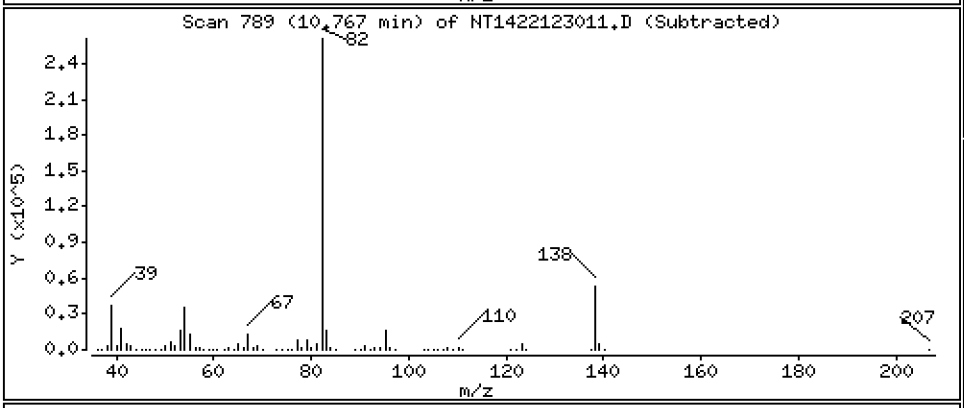
Column phase: ZB-5msi

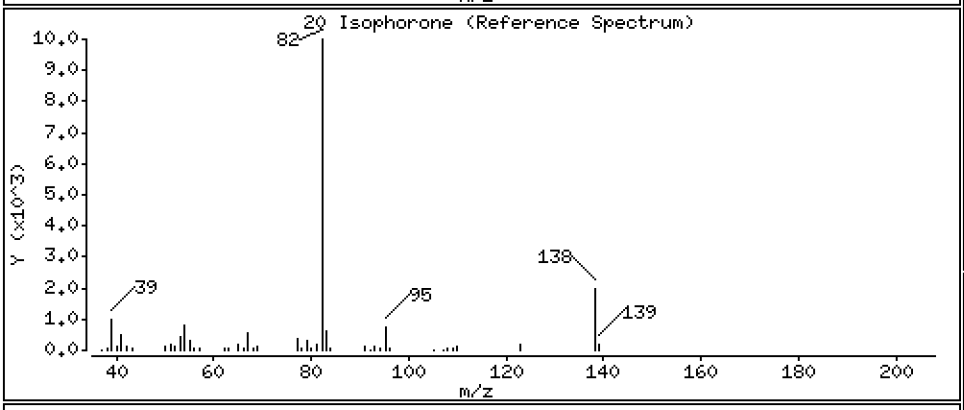
Column diameter: 0.25

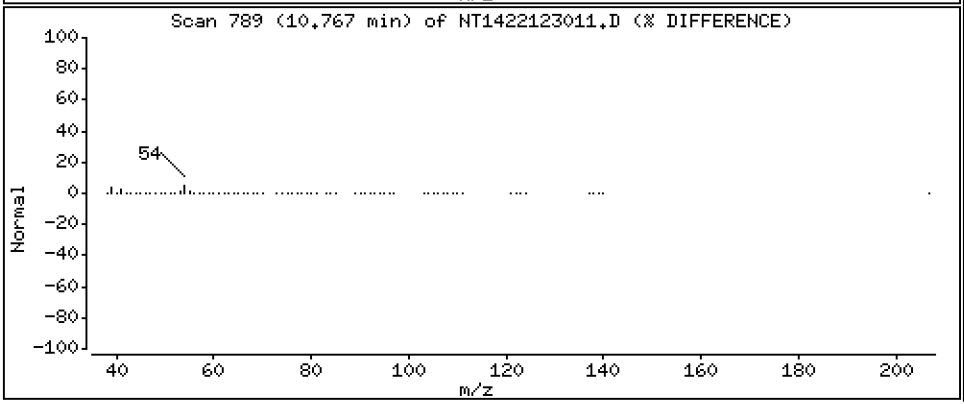
20 Isophorone

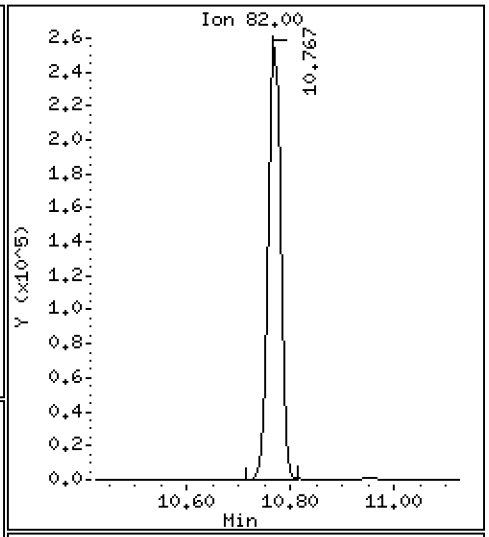
Concentration: 6.946 ug/mL

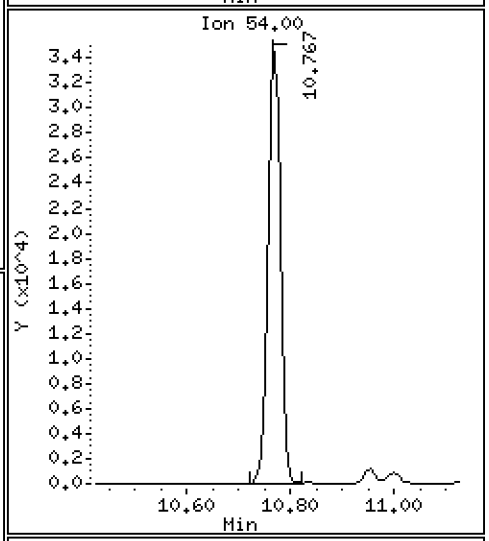


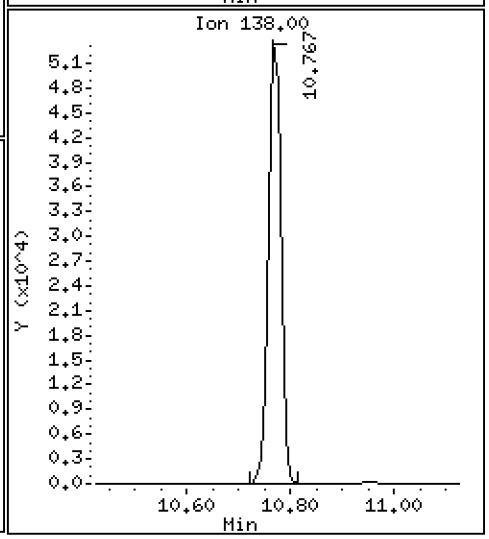












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

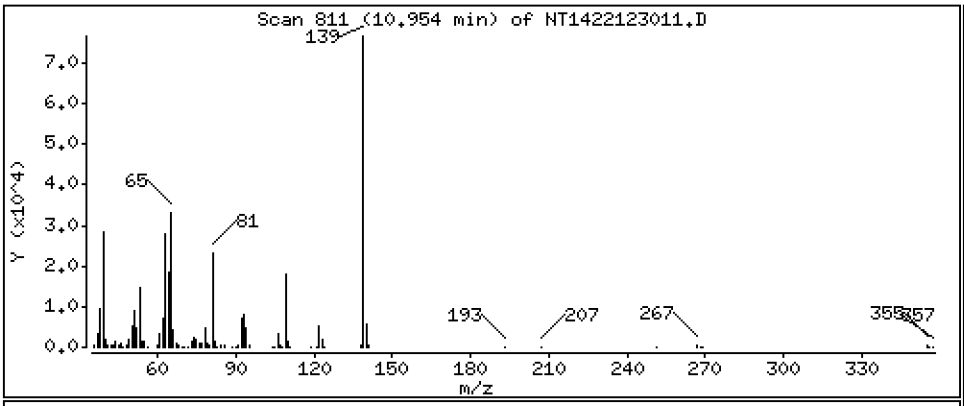
Operator: VTS

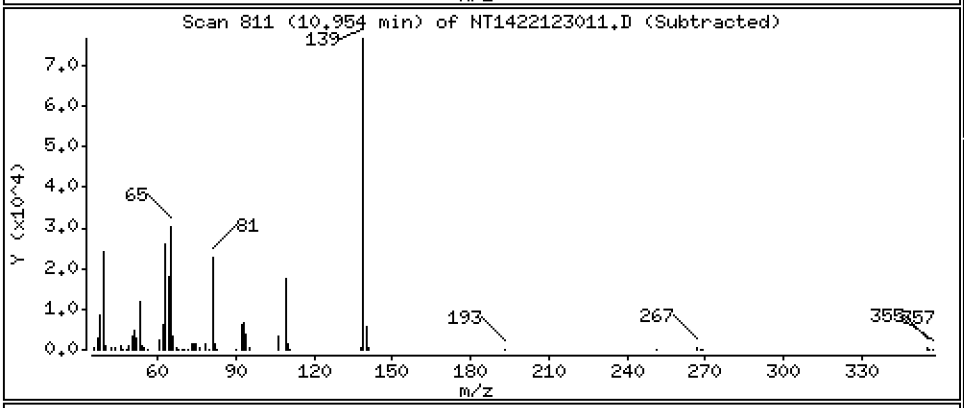
Column phase: ZB-5msi

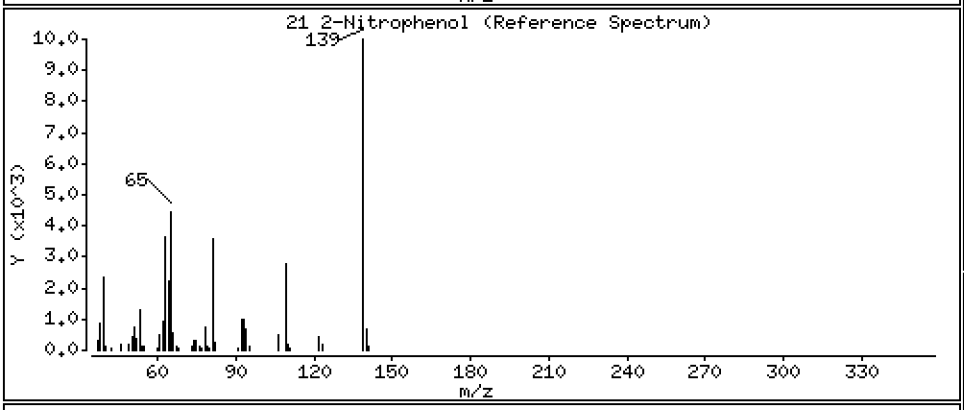
Column diameter: 0.25

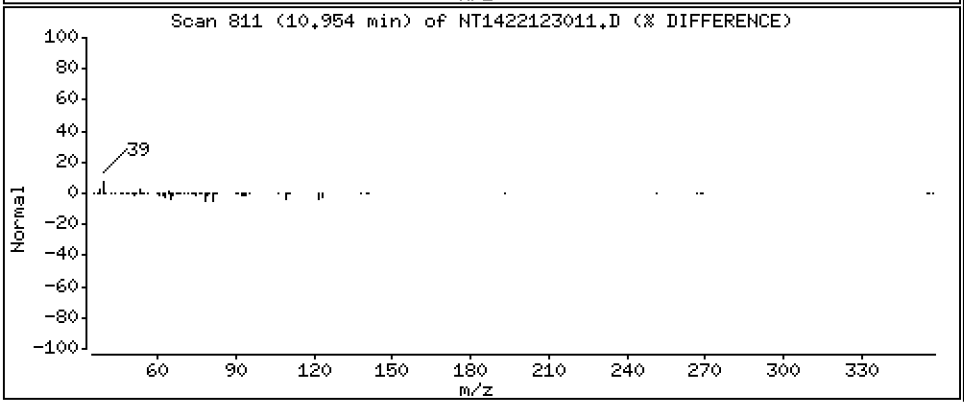
21 2-Nitrophenol

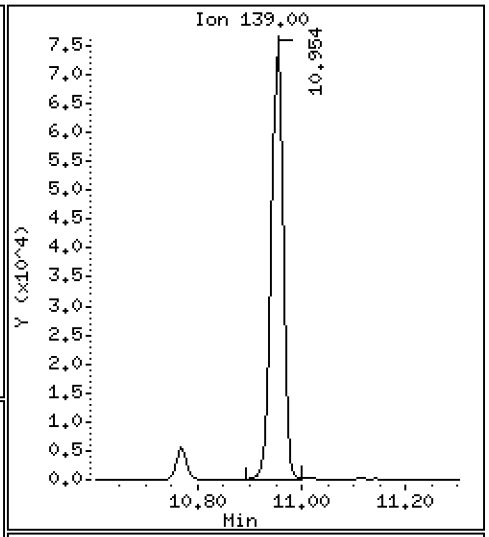
Concentration: 4.556 ug/mL

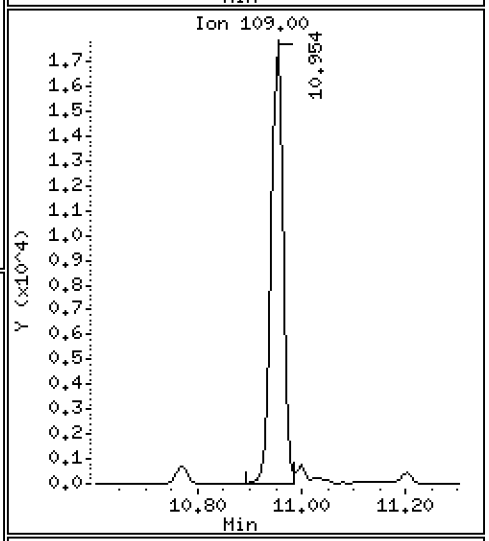


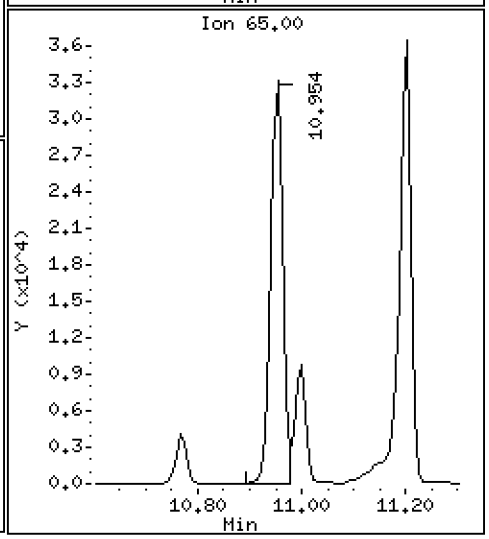












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

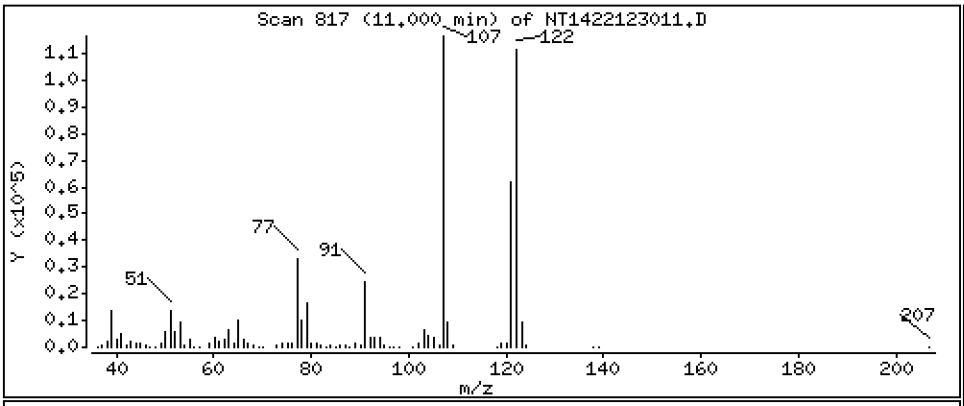
Operator: VTS

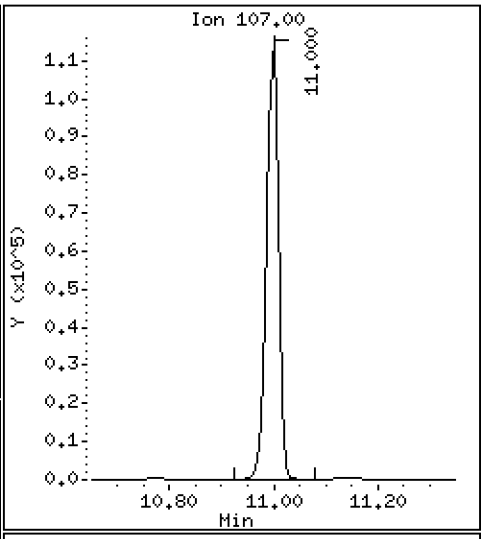
Column phase: ZB-5msi

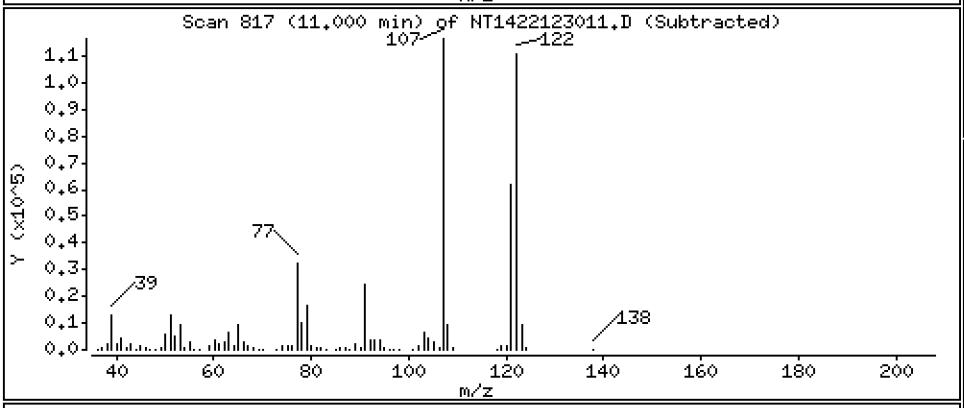
Column diameter: 0.25

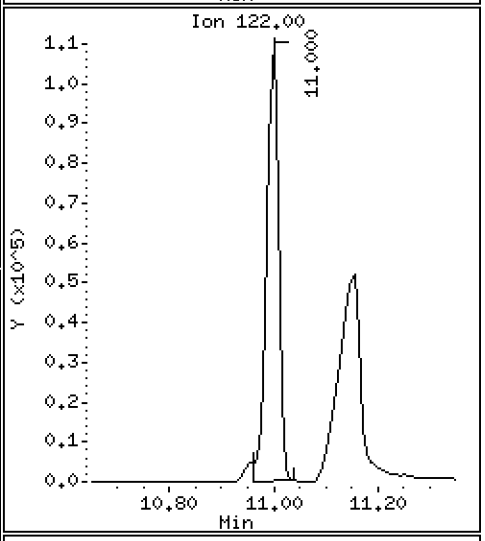
22 2,4-Dimethylphenol

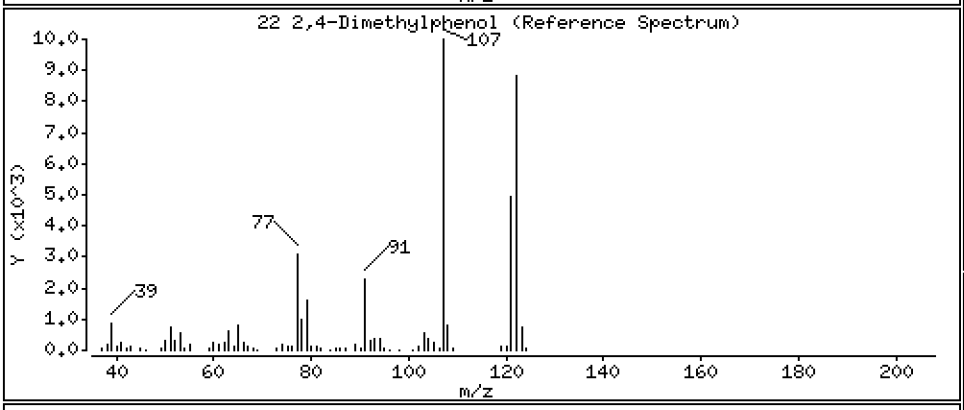
Concentration: 3.663 ug/mL

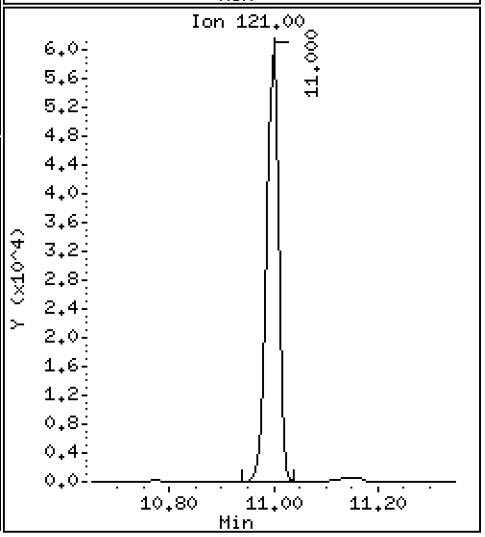


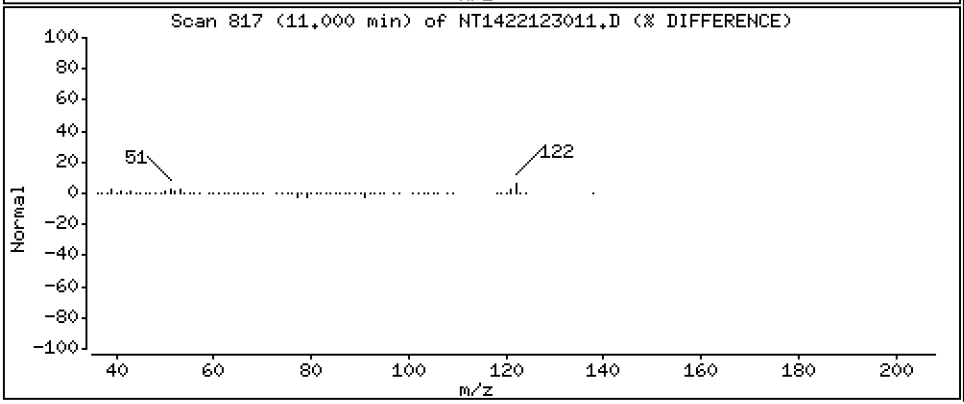












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

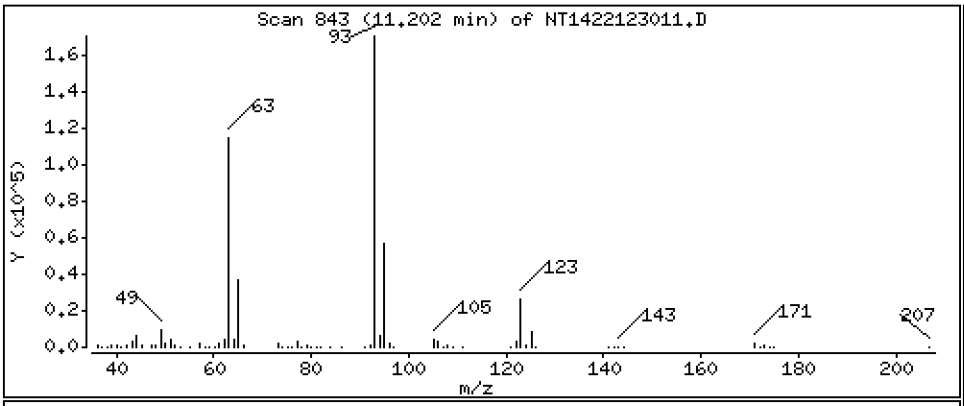
Operator: VTS

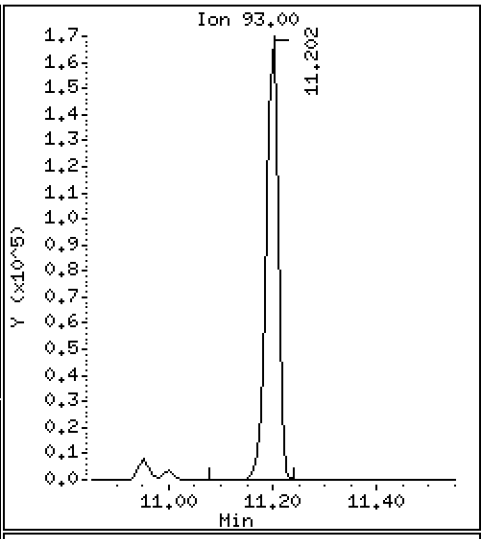
Column phase: ZB-5msi

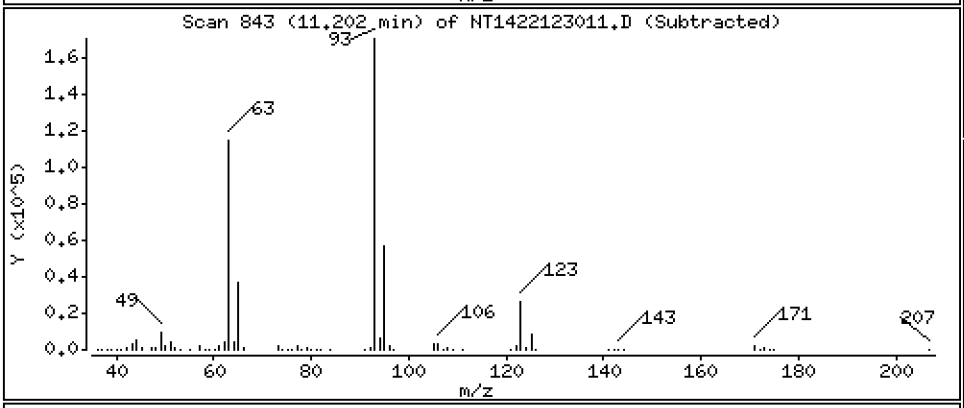
Column diameter: 0.25

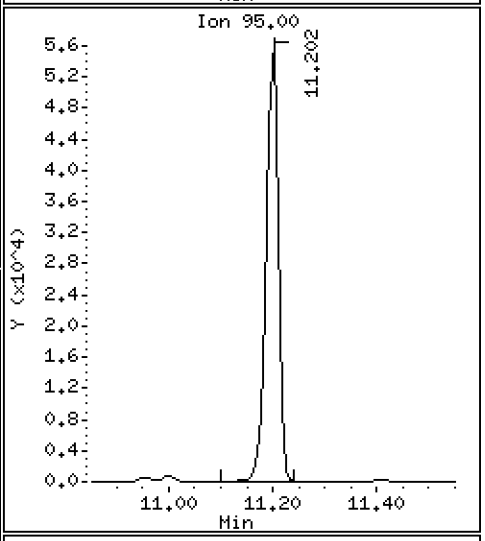
23 Bis(2-Chloroethoxy)methane

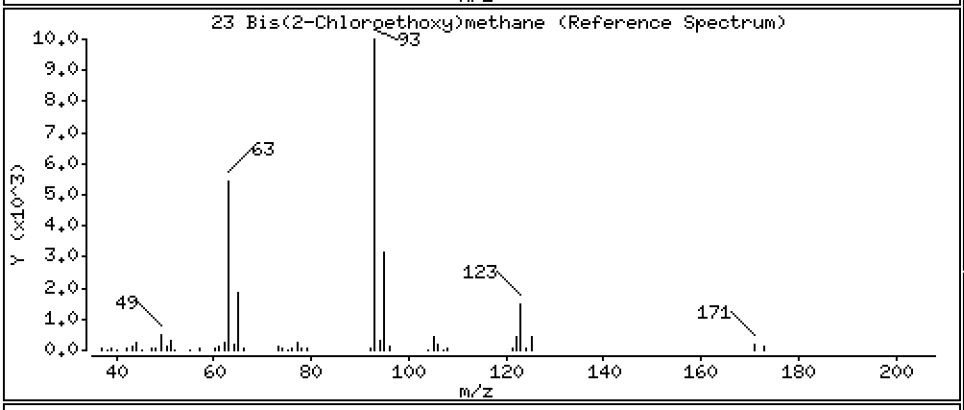
Concentration: 5.670 ug/mL

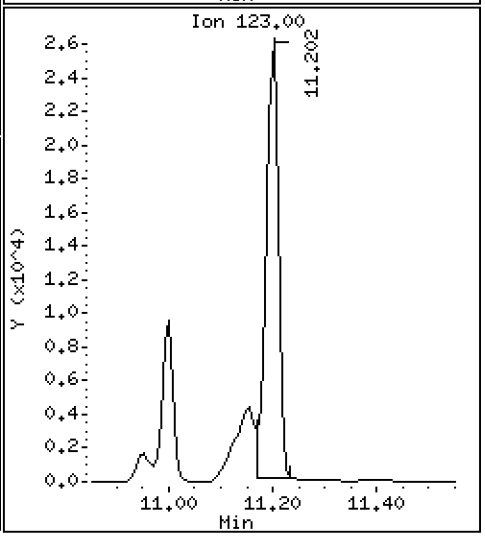


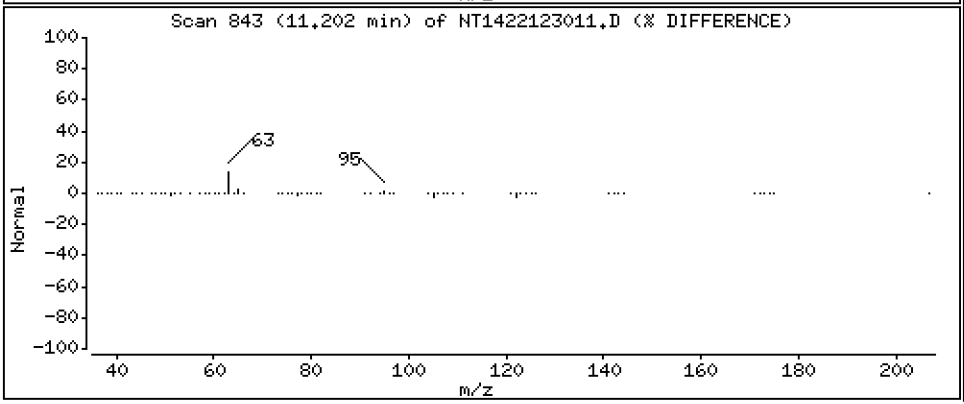












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

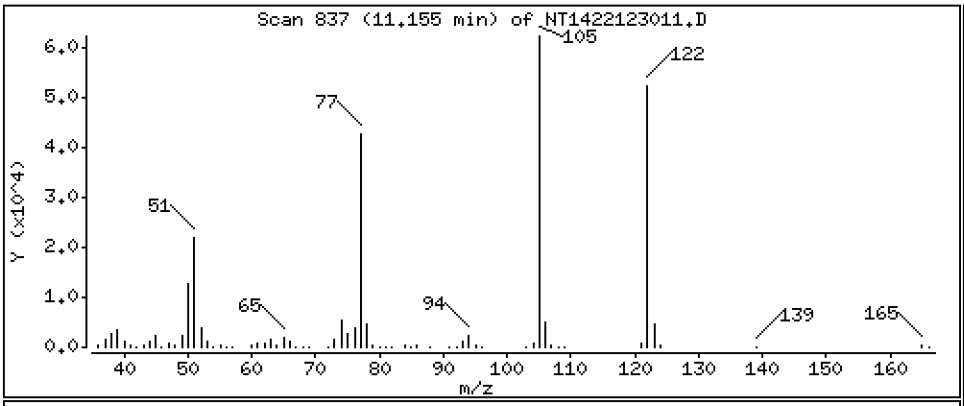
Operator: VTS

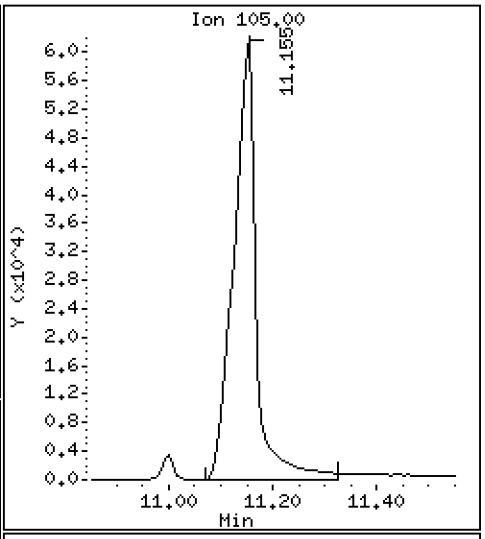
Column phase: ZB-5msi

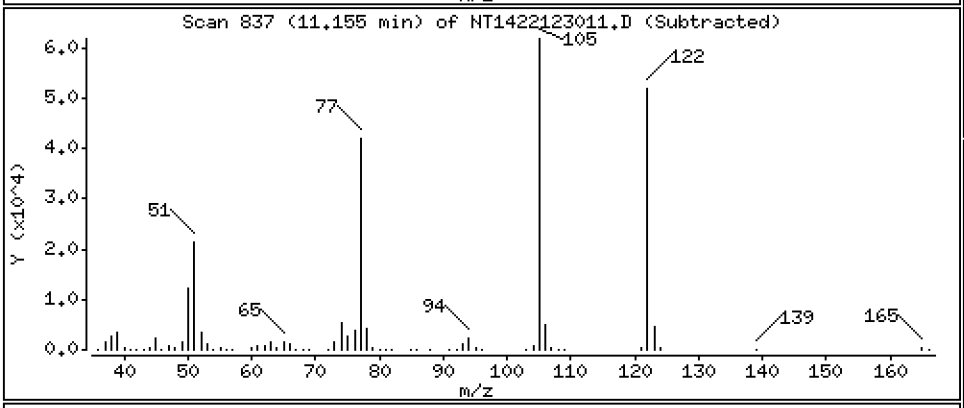
Column diameter: 0.25

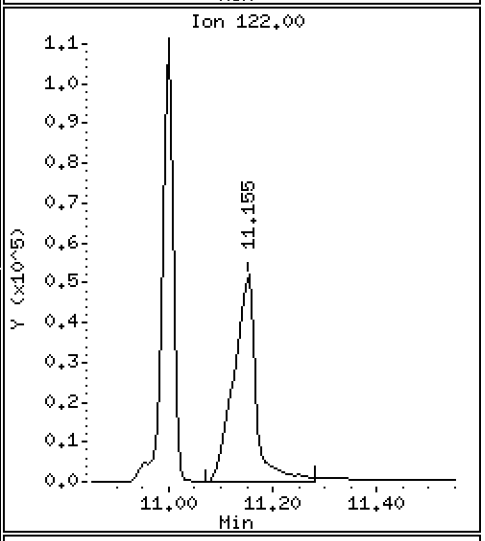
24 Benzoic acid

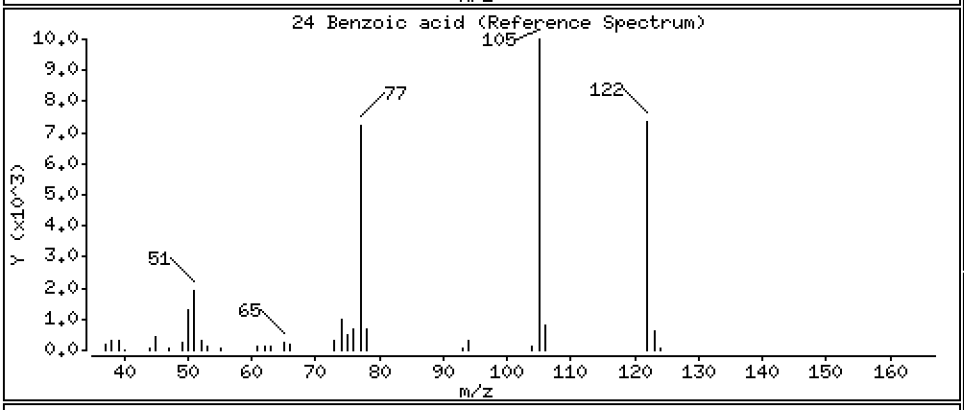
Concentration: 6.385 ug/mL

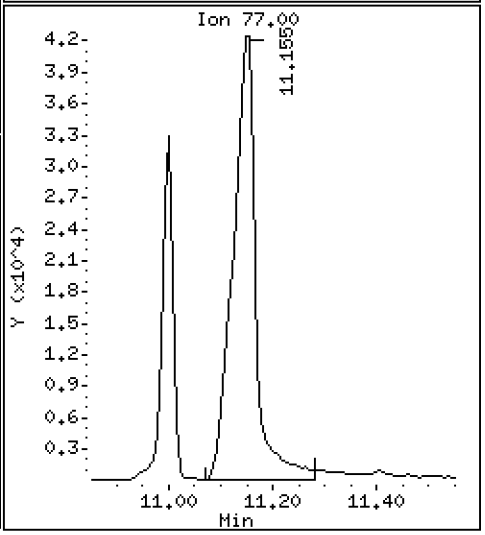


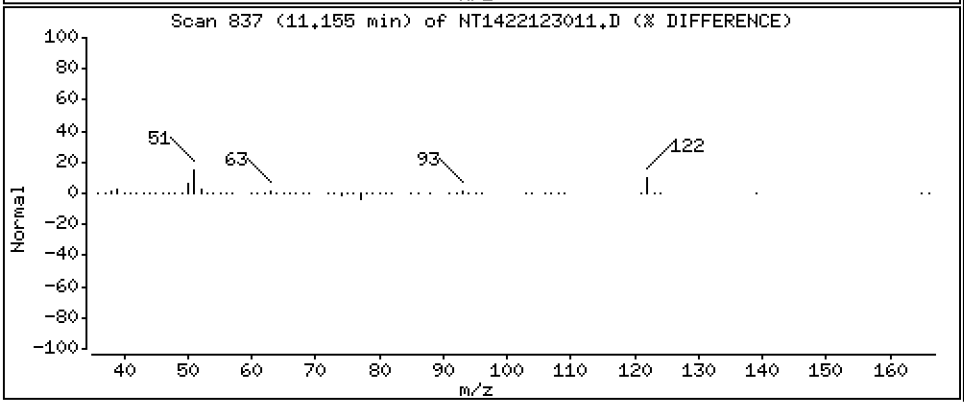












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

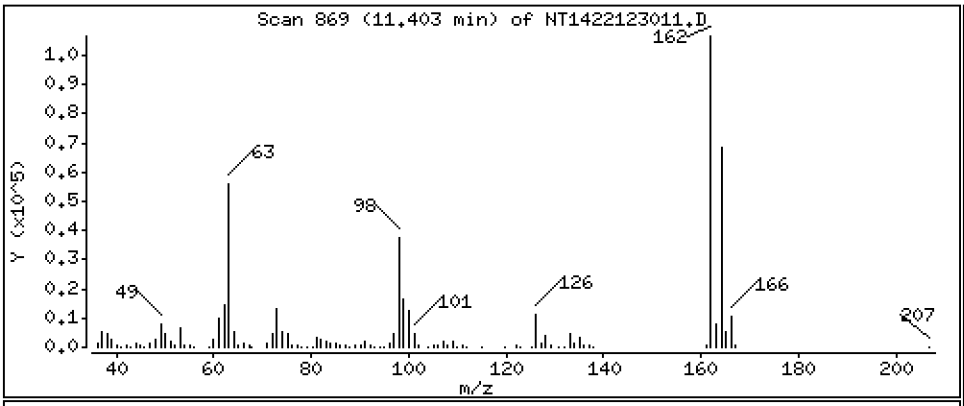
Operator: VTS

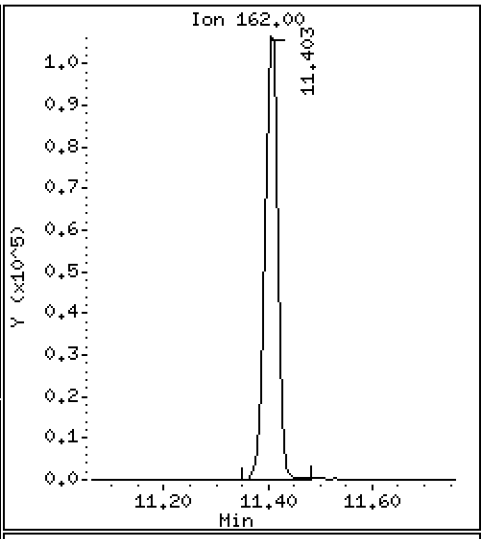
Column phase: ZB-5msi

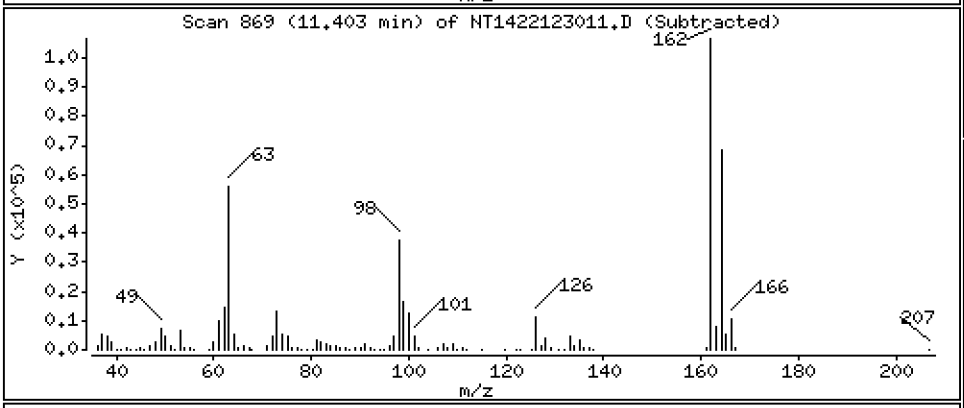
Column diameter: 0.25

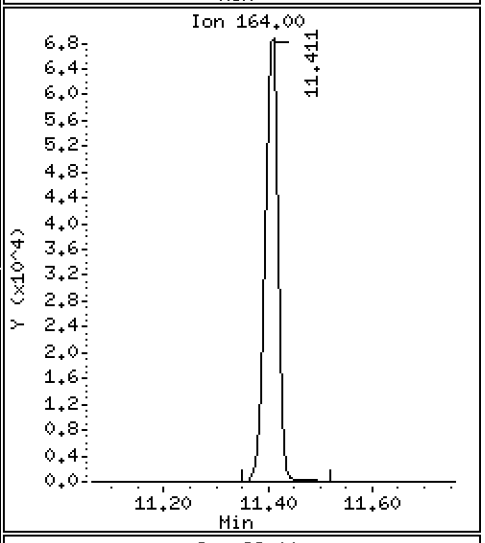
25 2,4-Dichlorophenol

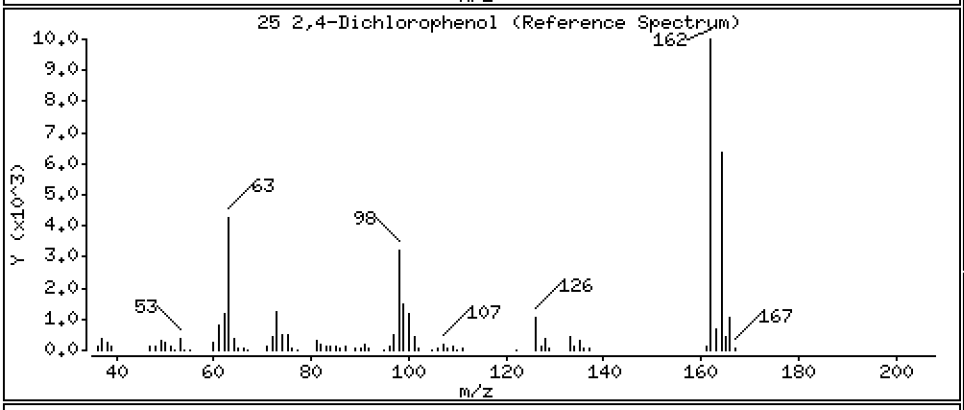
Concentration: 4.388 ug/mL

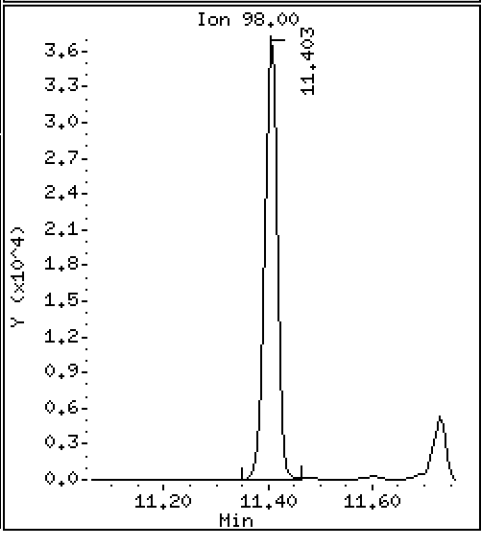


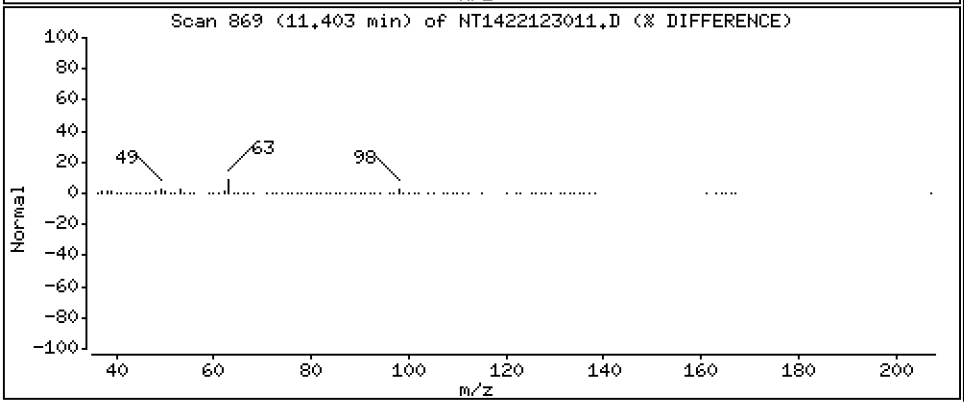












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

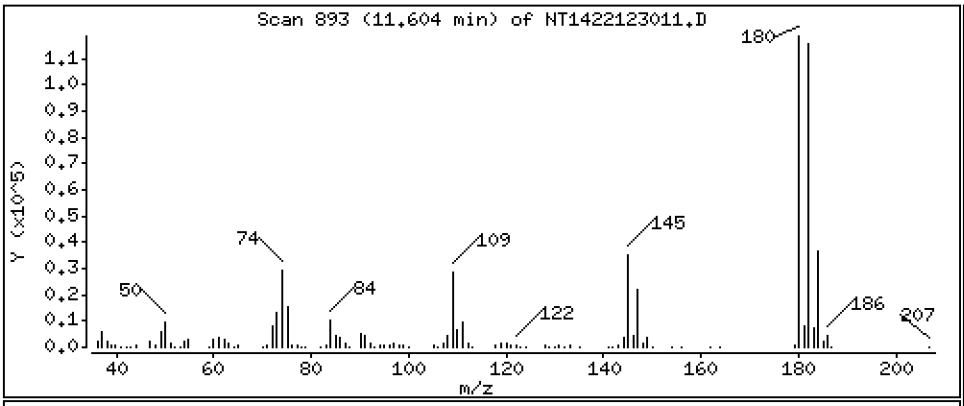
Operator: VTS

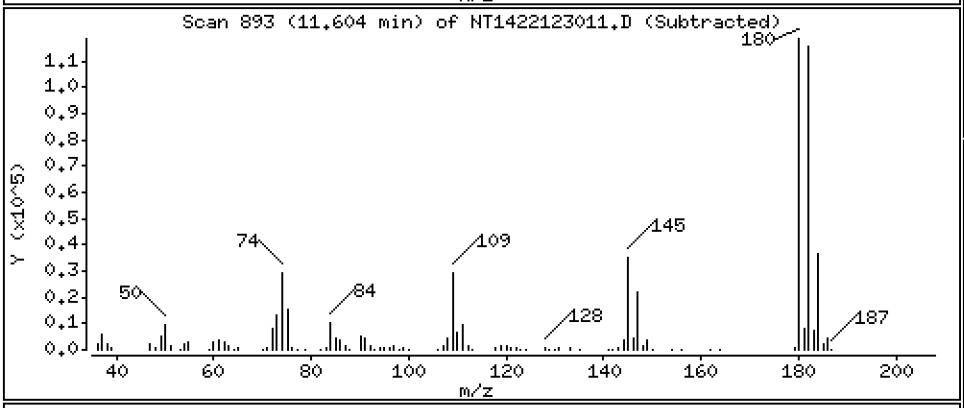
Column phase: ZB-5msi

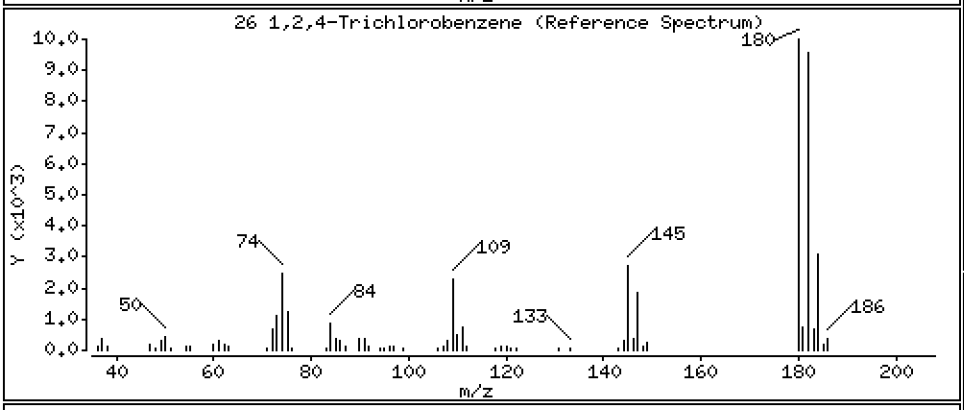
Column diameter: 0.25

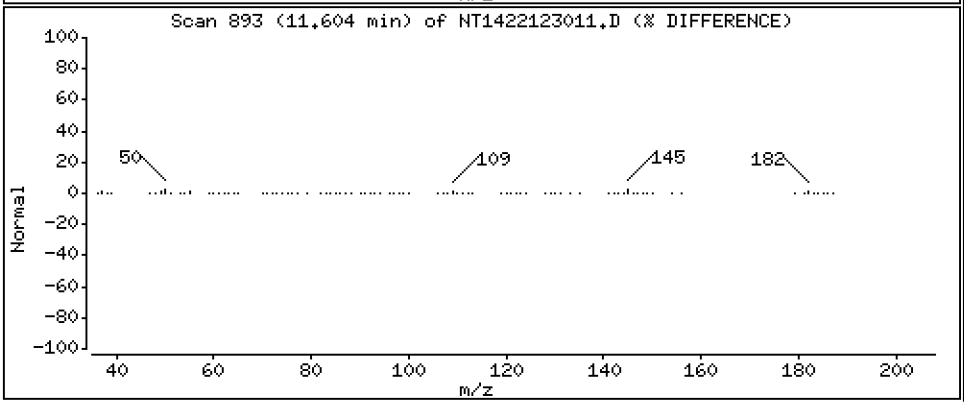
26 1,2,4-Trichlorobenzene

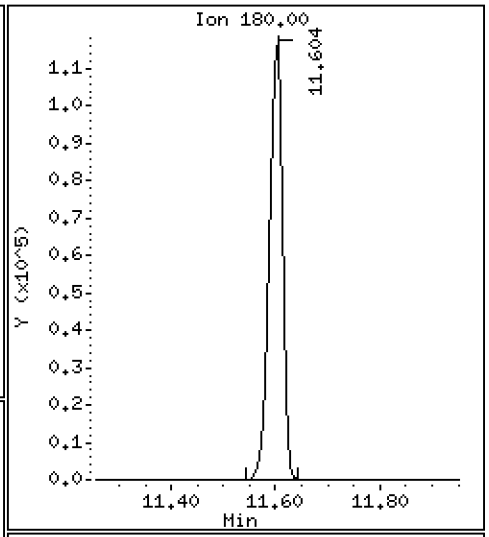
Concentration: 4.574 ug/mL

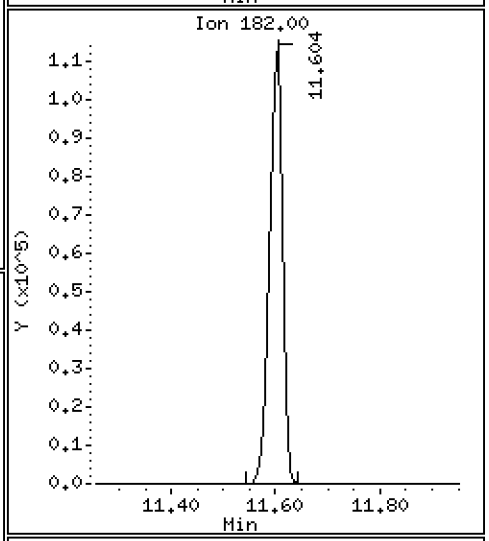


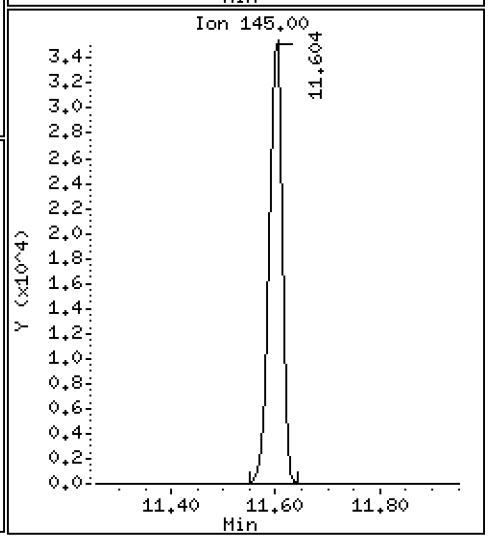












Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123011.D

Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

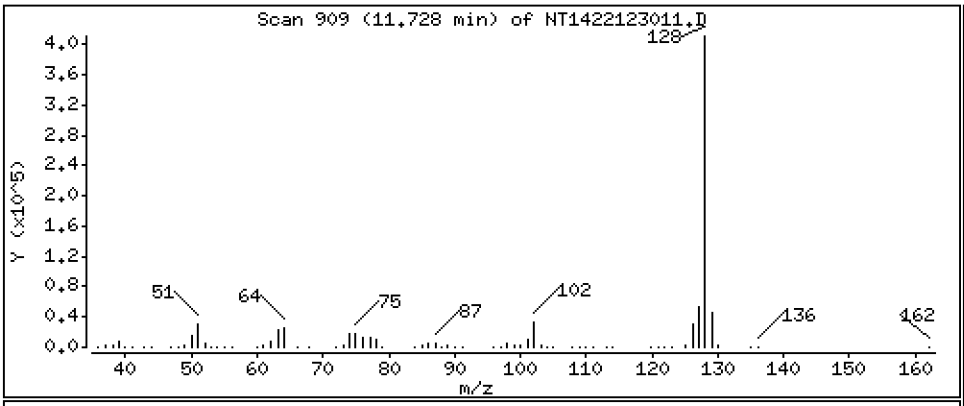
Operator: VTS

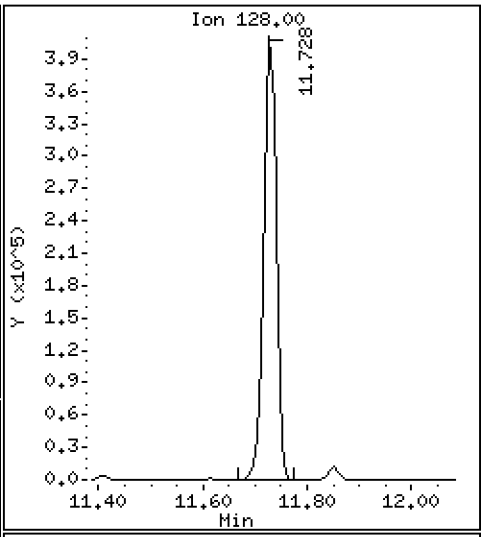
Column phase: ZB-5msi

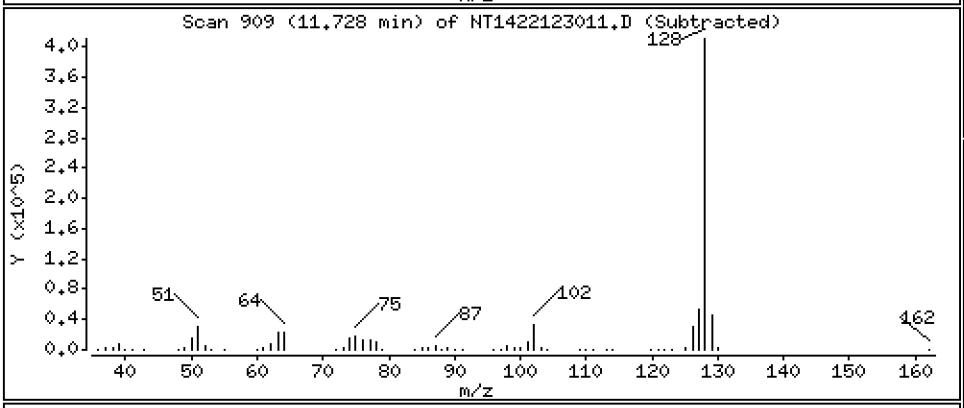
Column diameter: 0.25

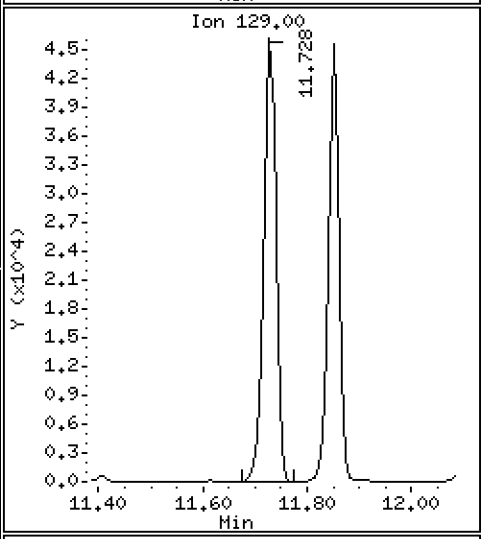
28 Naphthalene

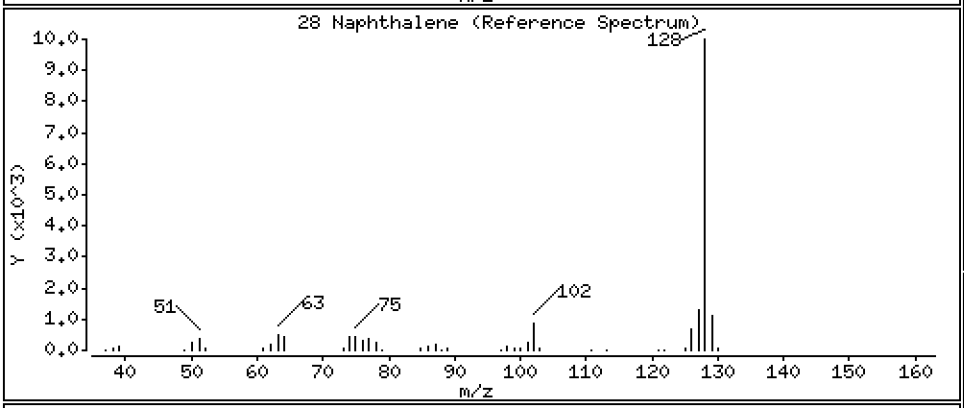
Concentration: 4.812 ug/mL

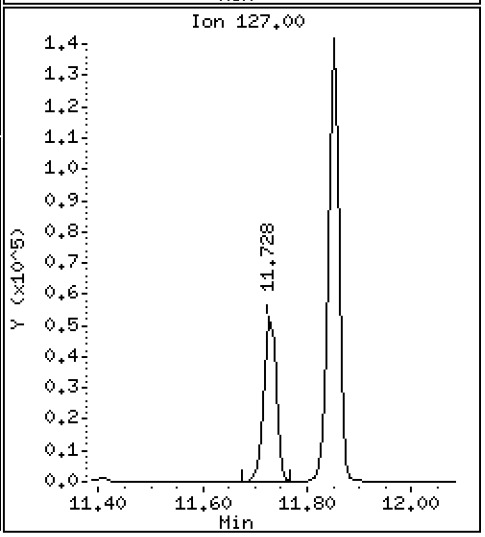


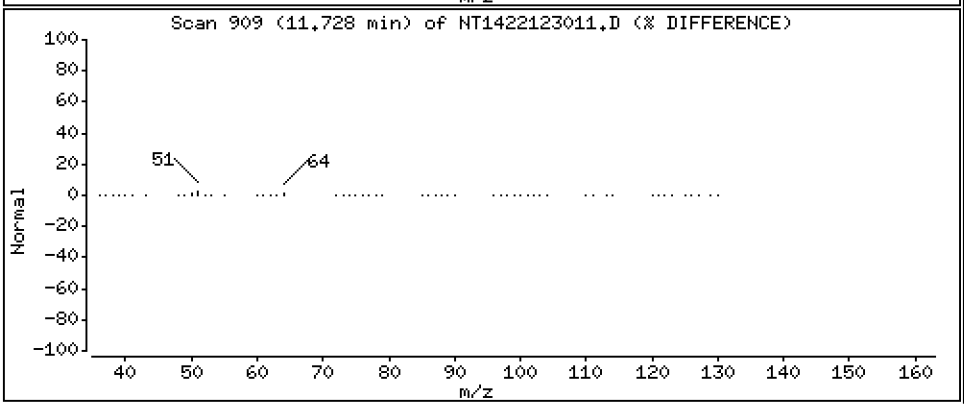












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

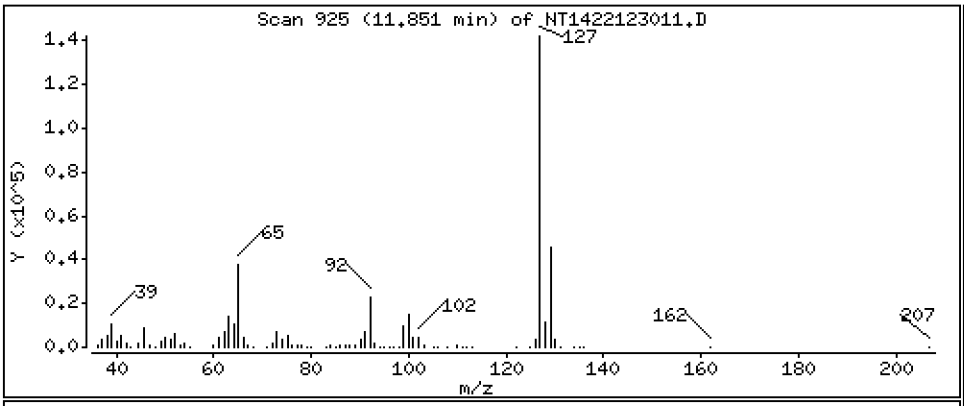
Operator: VTS

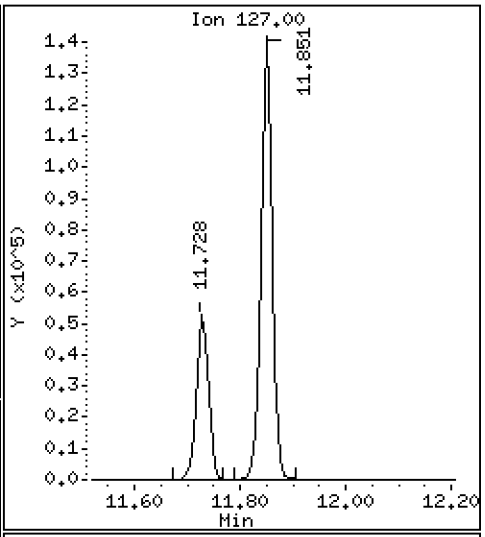
Column phase: ZB-5msi

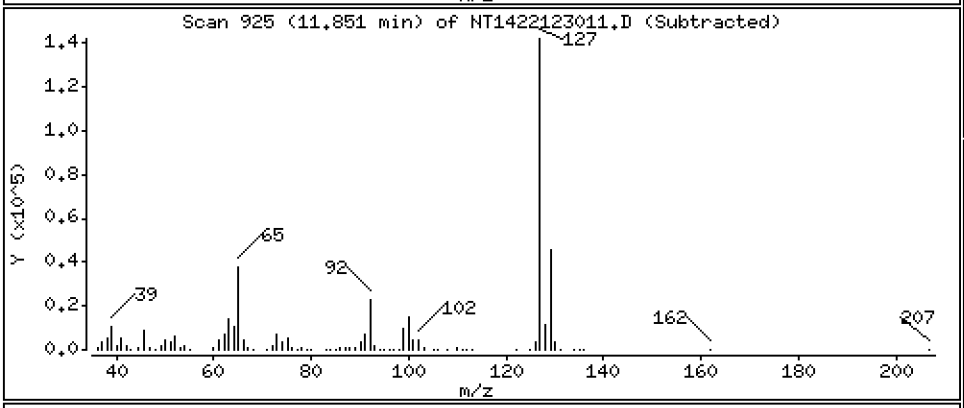
Column diameter: 0.25

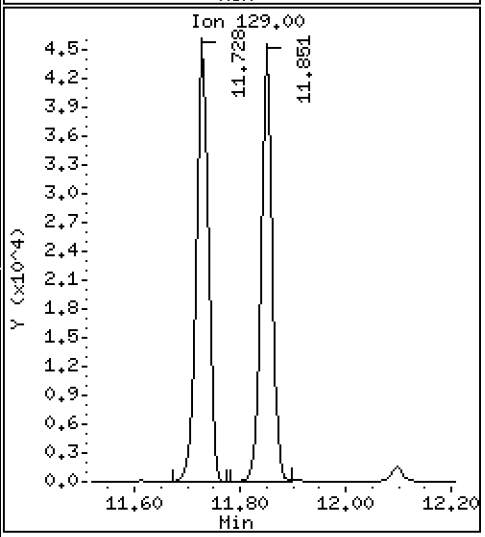
29 4-Chloroaniline

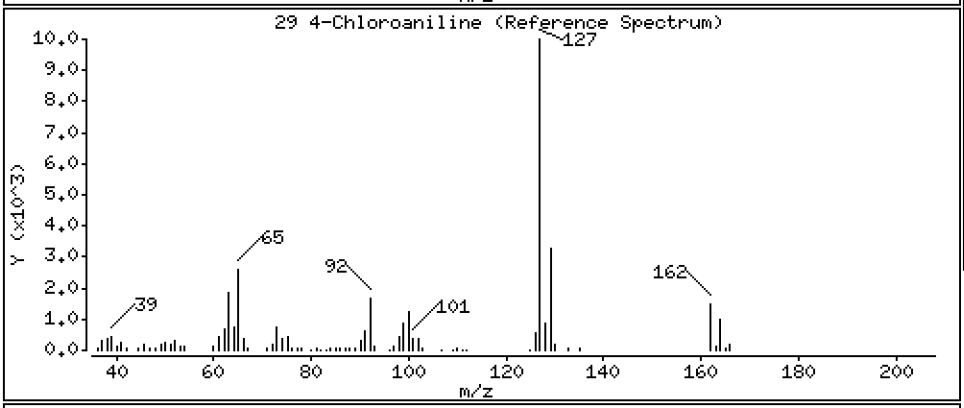
Concentration: 3.849 ug/mL

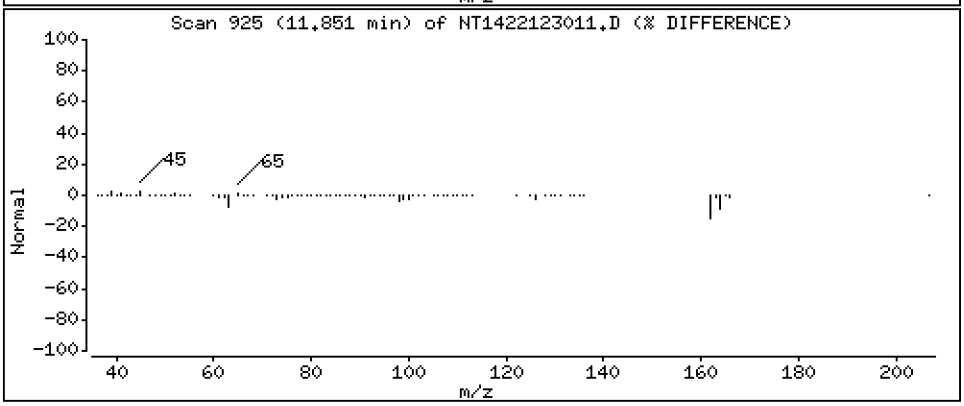












Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123011.D

Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

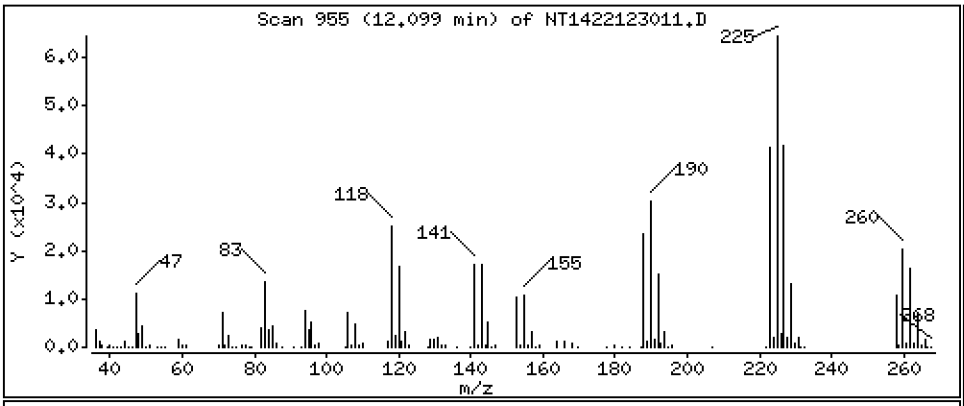
Operator: VTS

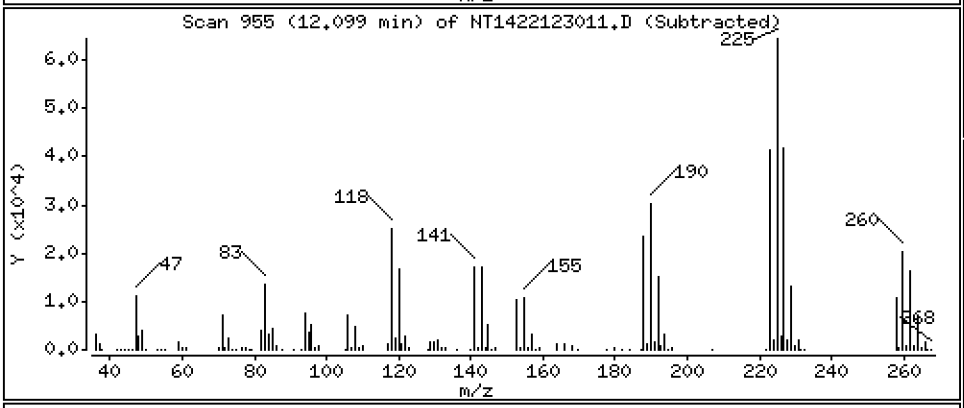
Column phase: ZB-5msi

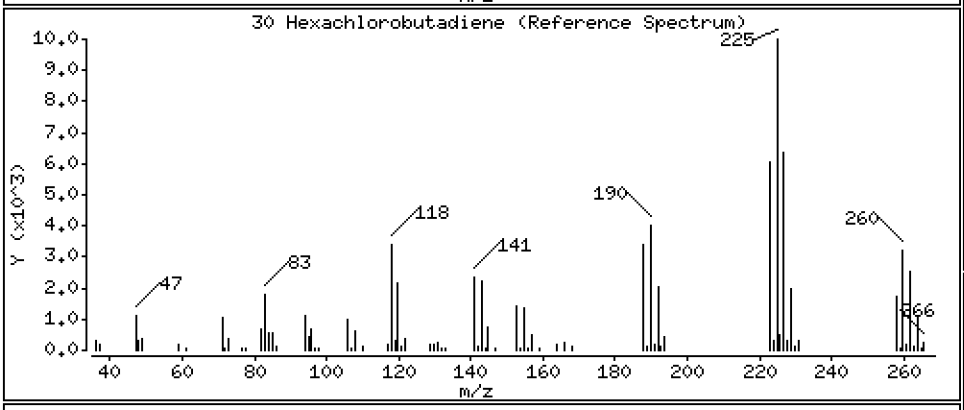
Column diameter: 0.25

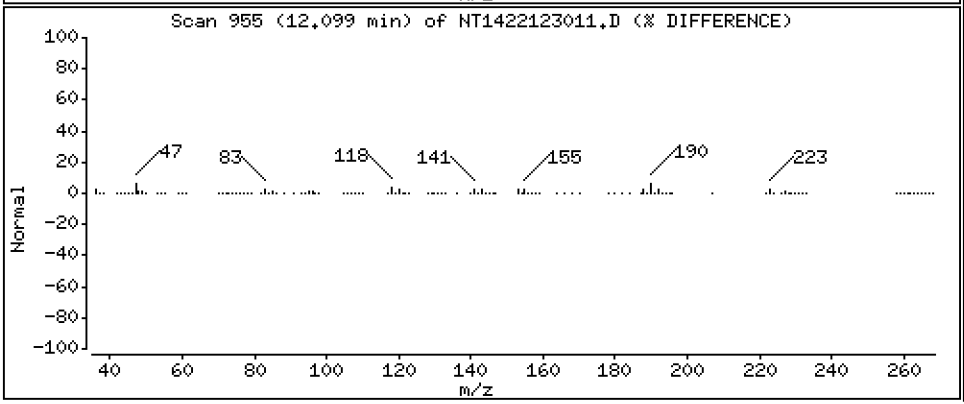
30 Hexachlorobutadiene

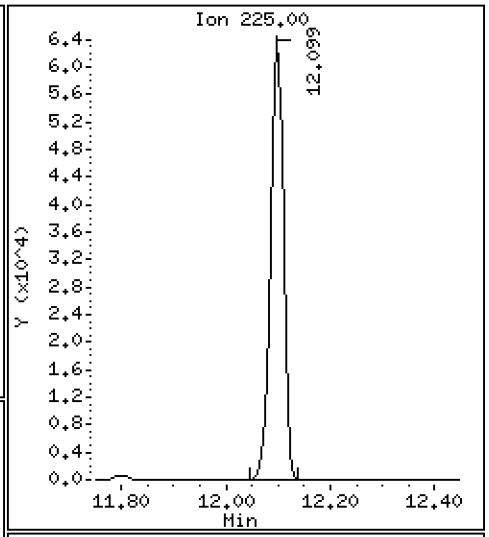
Concentration: 4.823 ug/mL

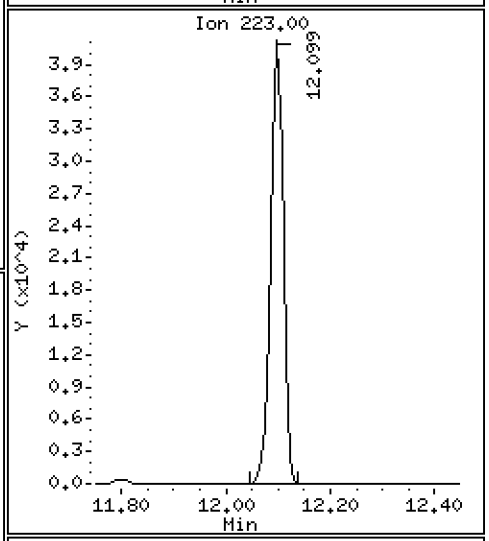


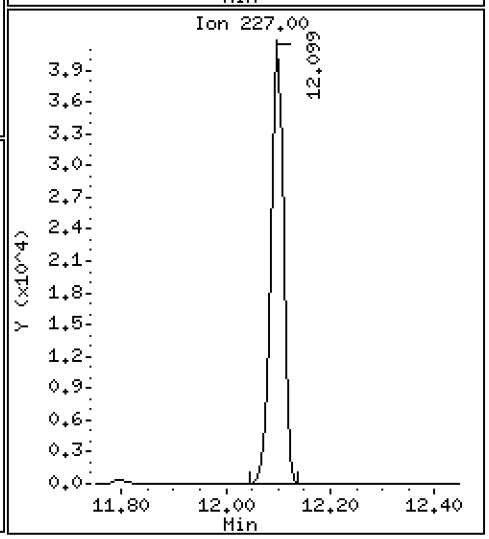












Date : 30-DEC-2022 13:31

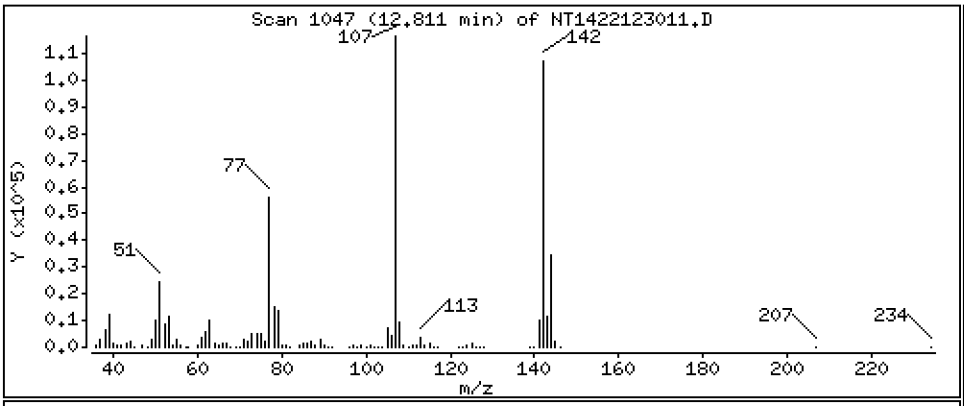
Client ID: Instrument: nt14.i

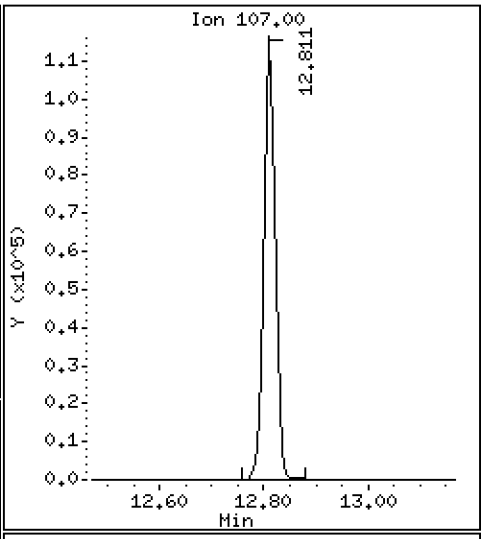
Sample Info: SKL0355-SCV1

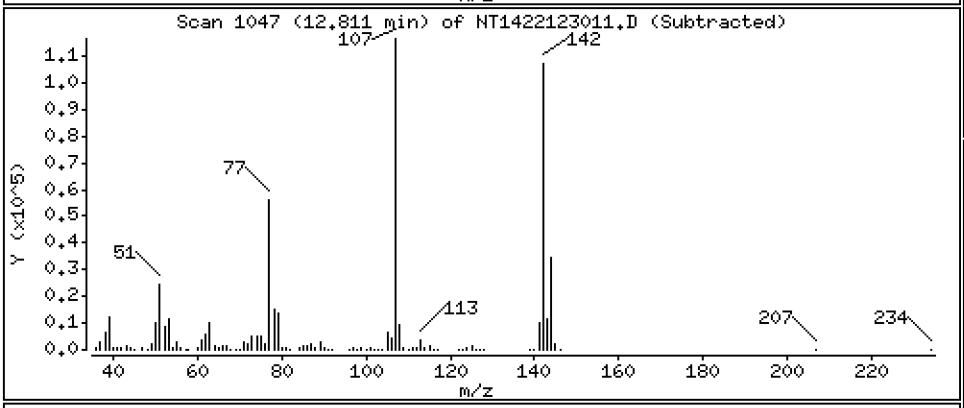
Operator: VTS

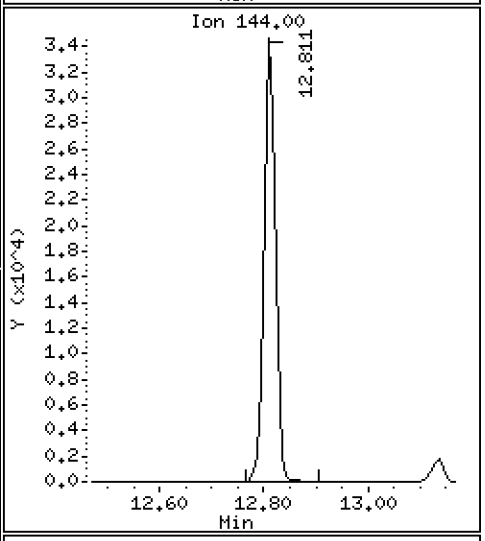
Column phase: ZB-5msi Column diameter: 0.25

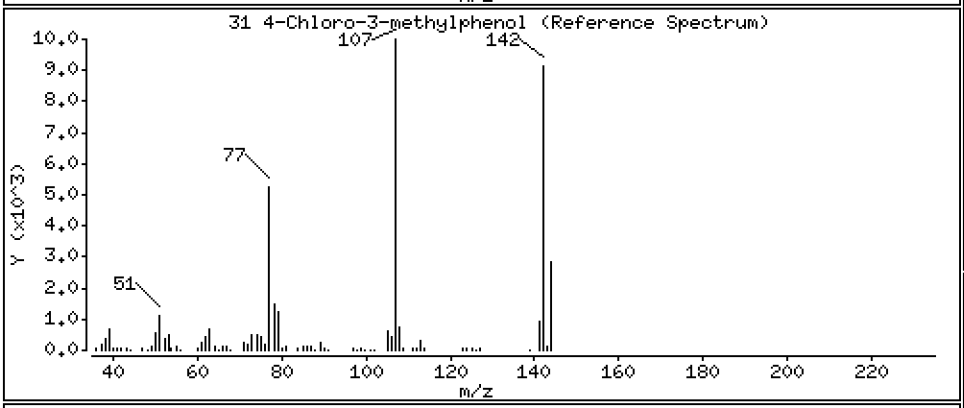
31 4-Chloro-3-methylphenol Concentration: 4.522 ug/mL

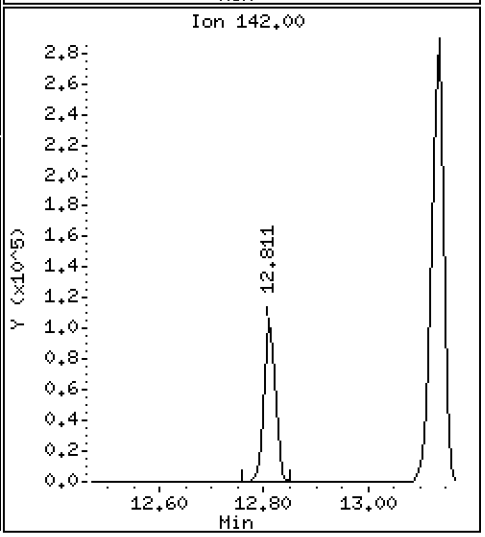


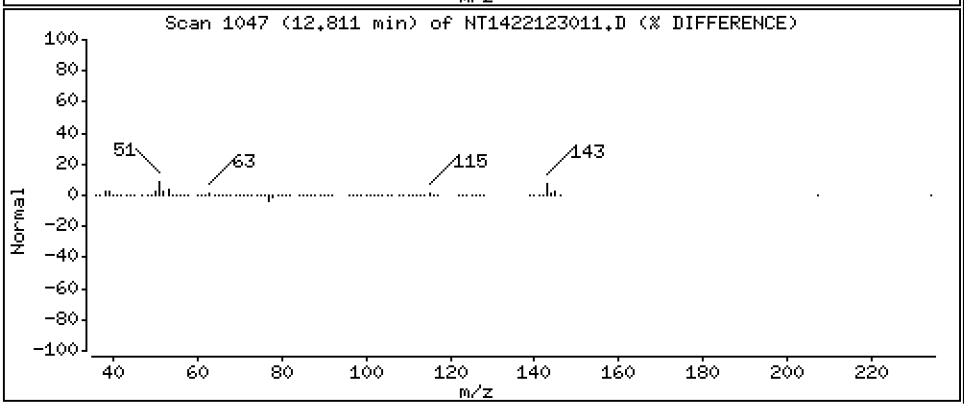












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

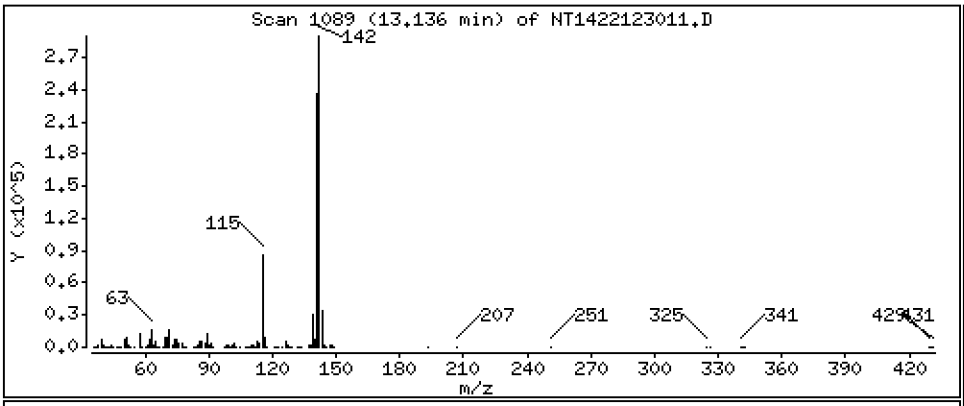
Operator: VTS

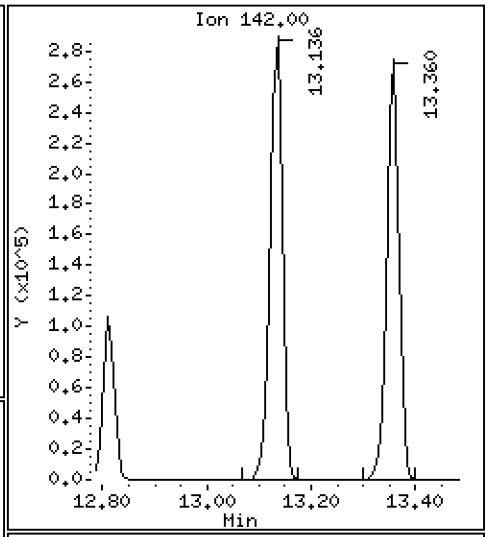
Column phase: ZB-5msi

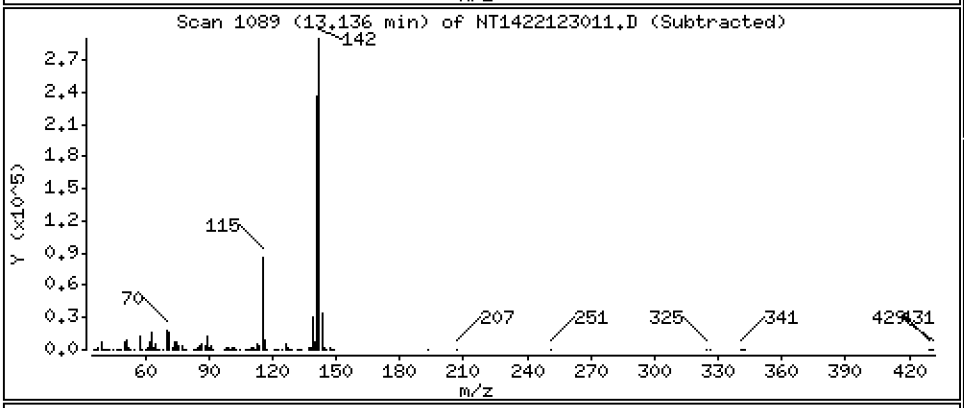
Column diameter: 0.25

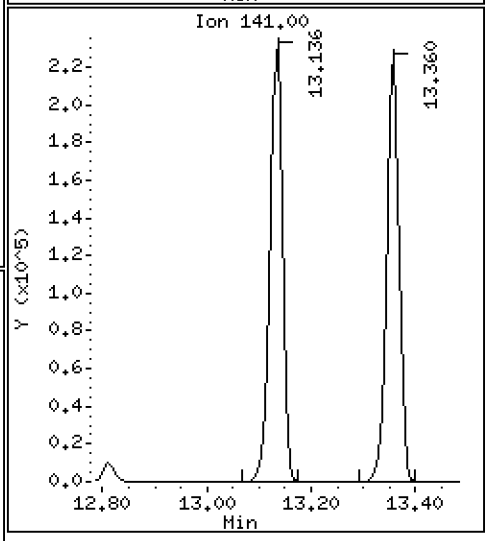
32 2-Methylnaphthalene

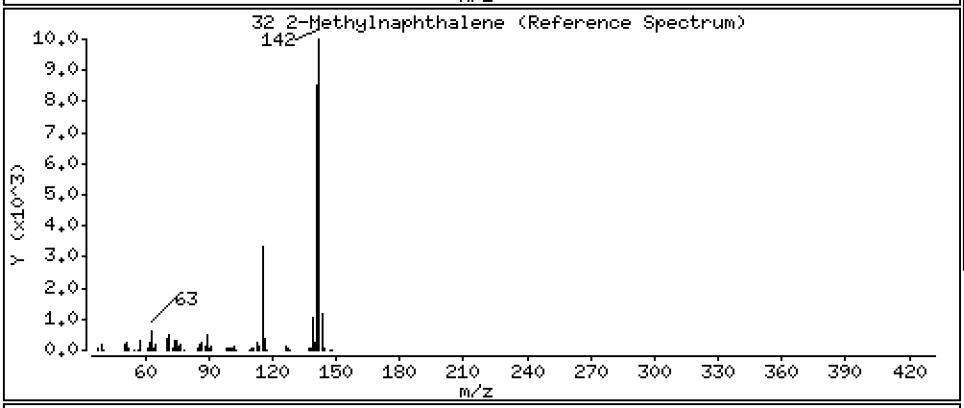
Concentration: 4.616 ug/mL

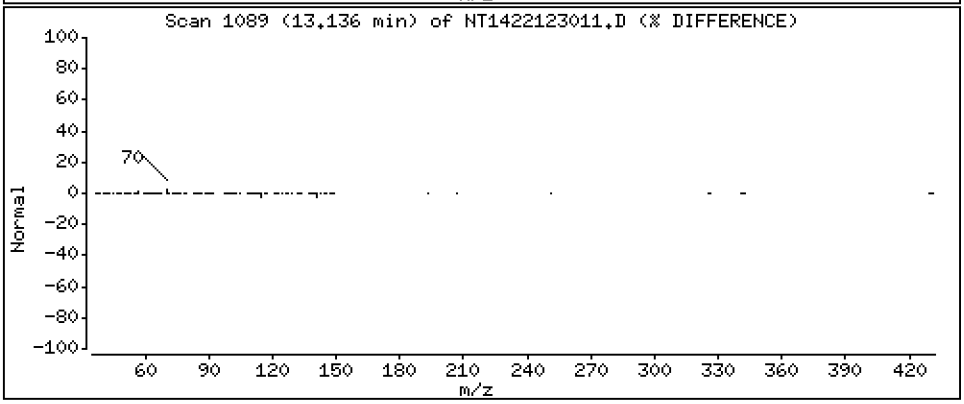












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

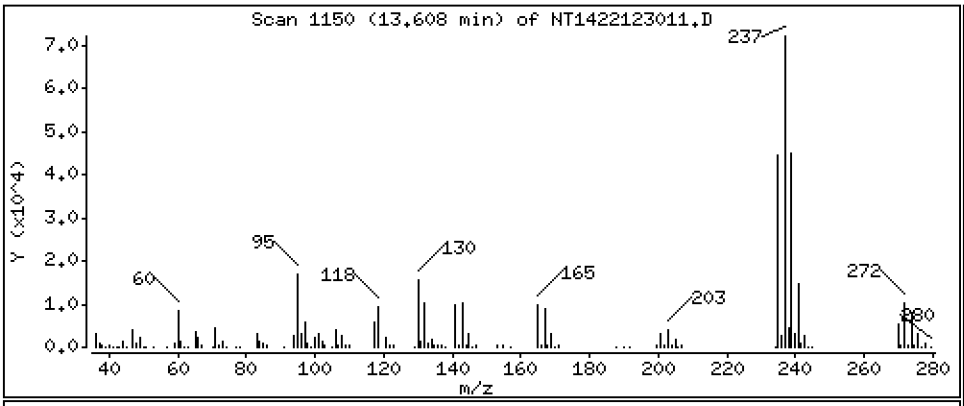
Operator: VTS

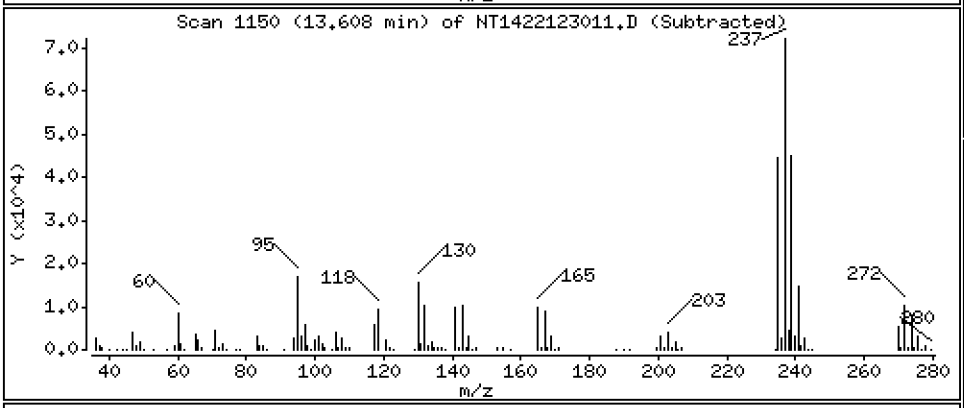
Column phase: ZB-5msi

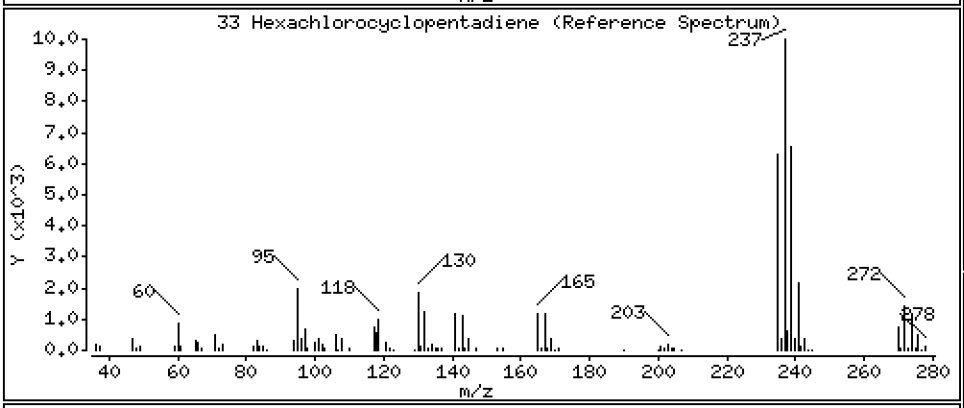
Column diameter: 0.25

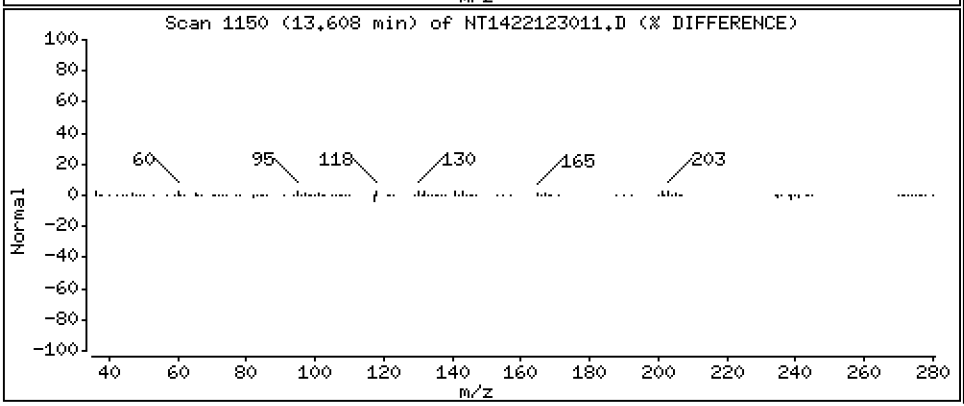
33 Hexachlorocyclopentadiene

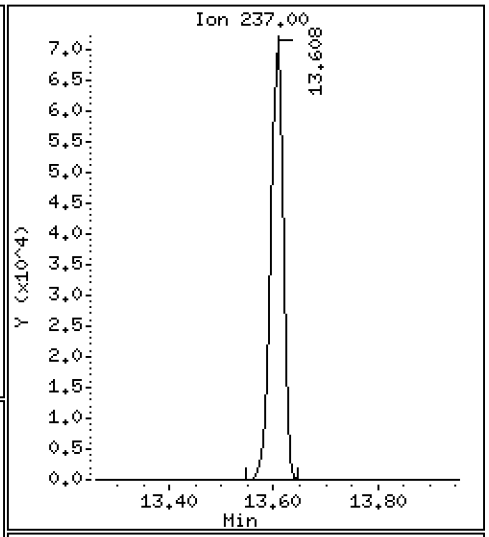
Concentration: 5.081 ug/mL

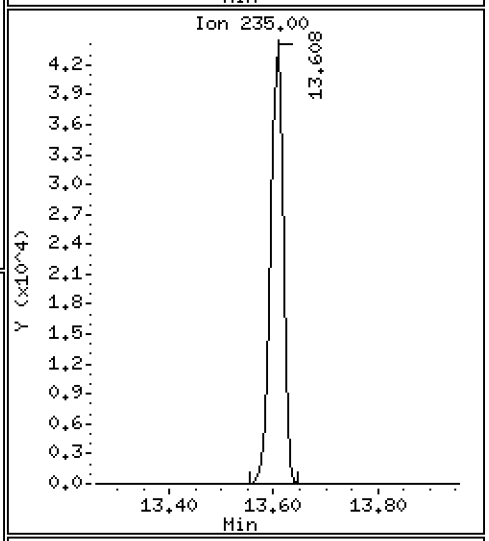


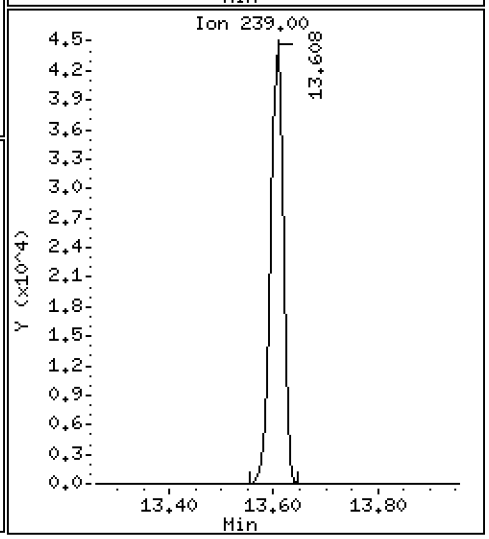












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

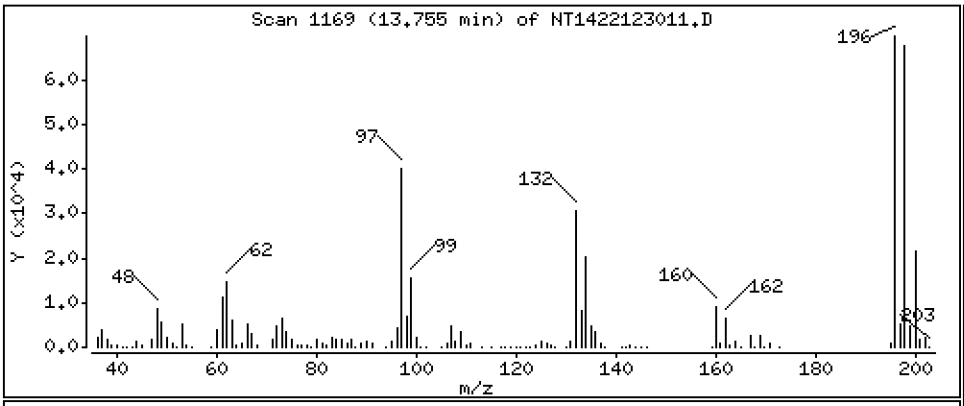
Operator: VTS

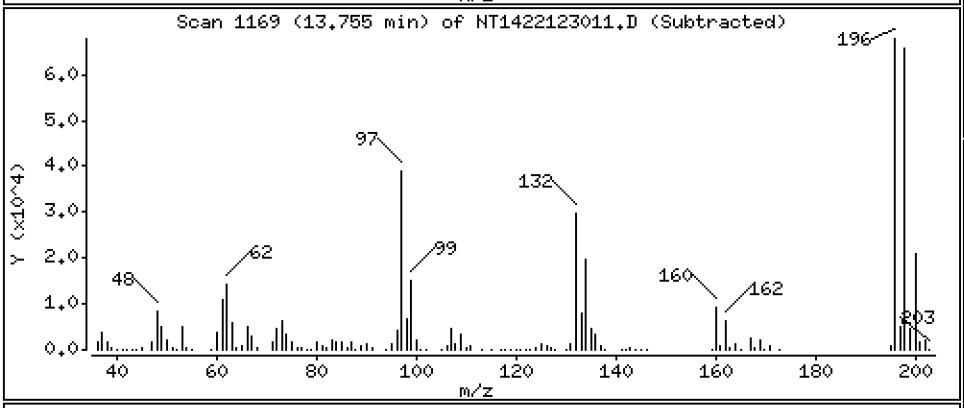
Column phase: ZB-5msi

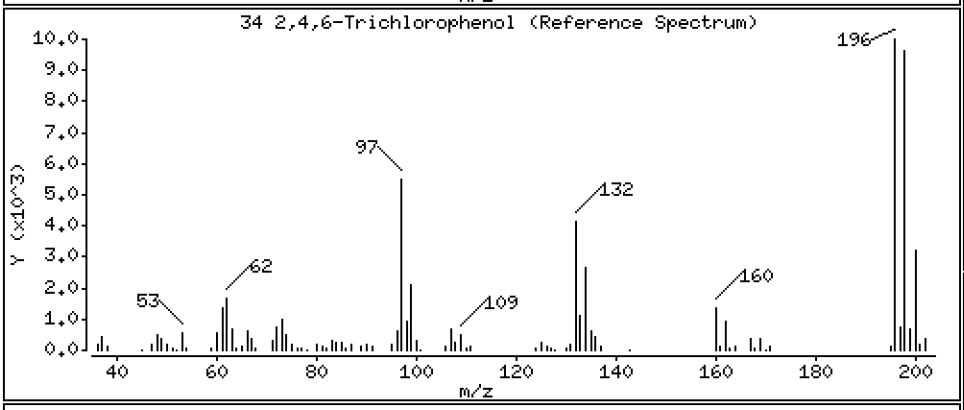
Column diameter: 0.25

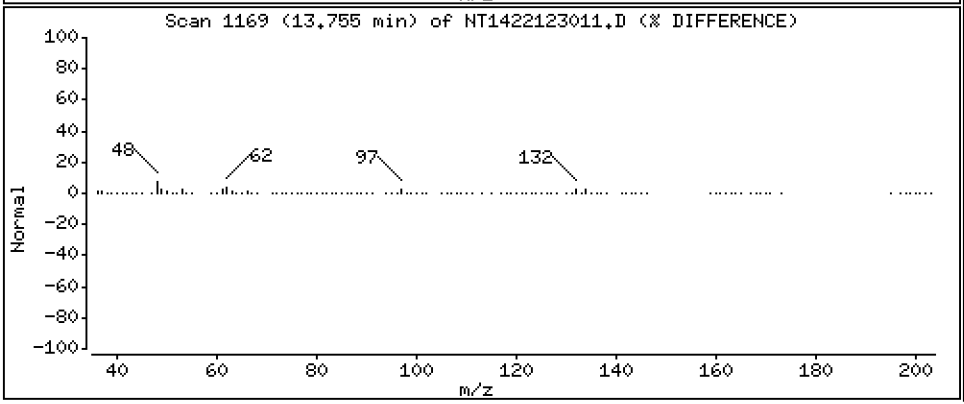
34 2,4,6-Trichlorophenol

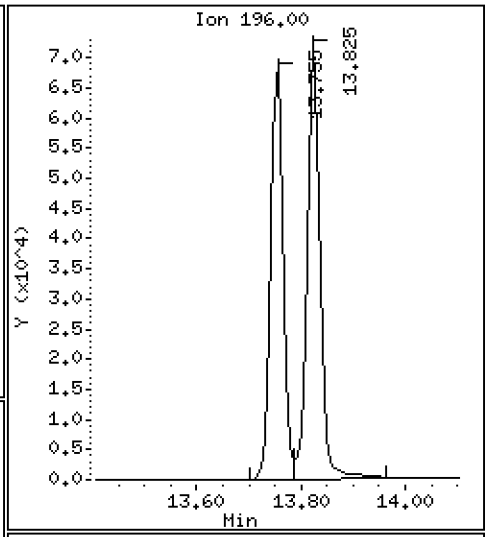
Concentration: 4.407 ug/mL

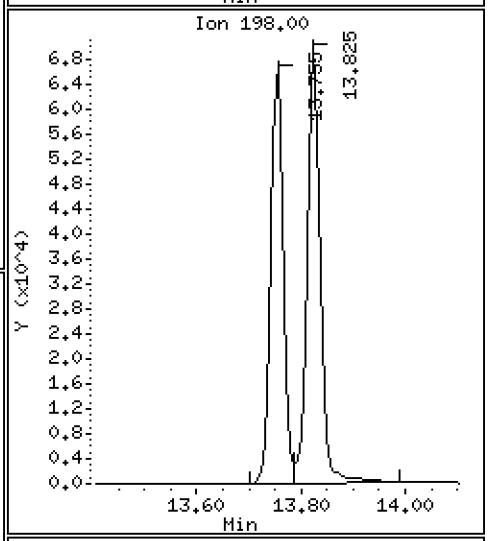


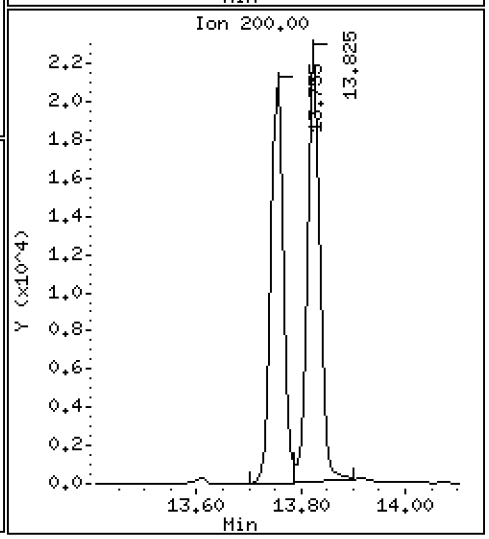












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

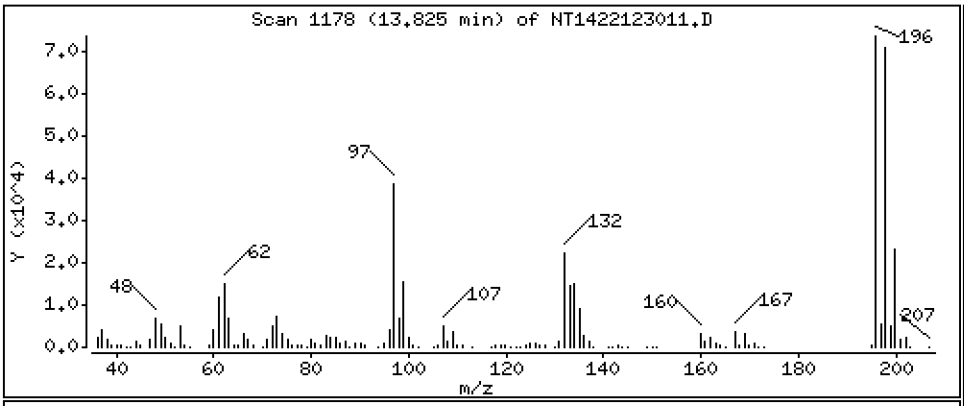
Operator: VTS

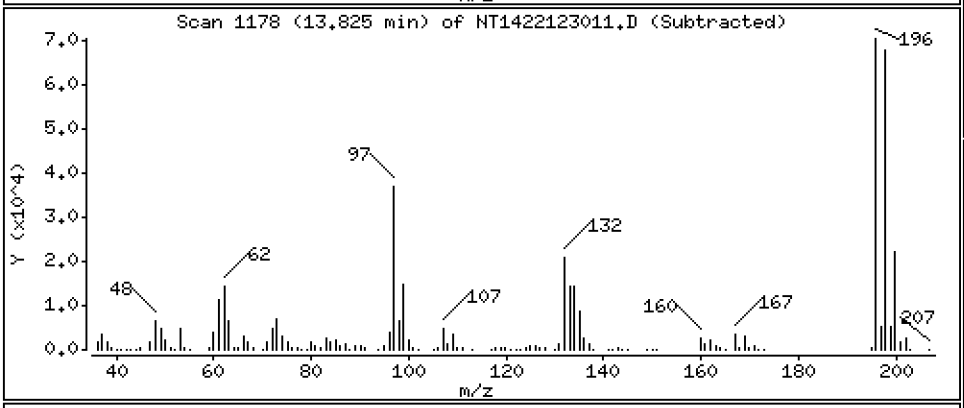
Column phase: ZB-5msi

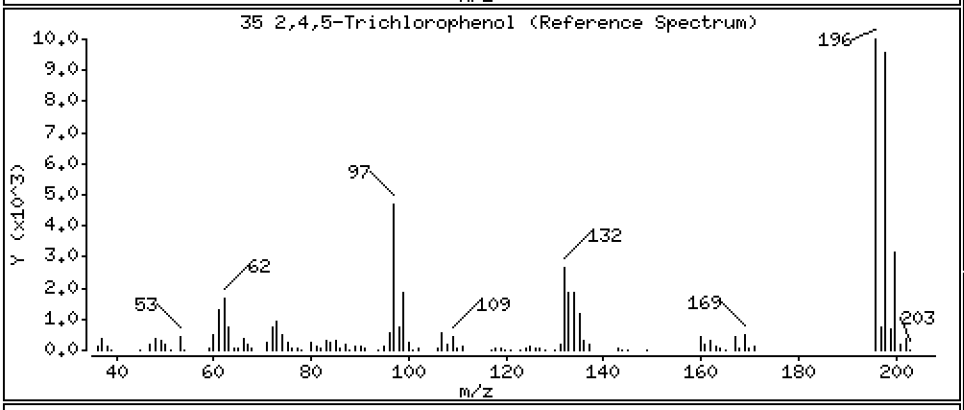
Column diameter: 0.25

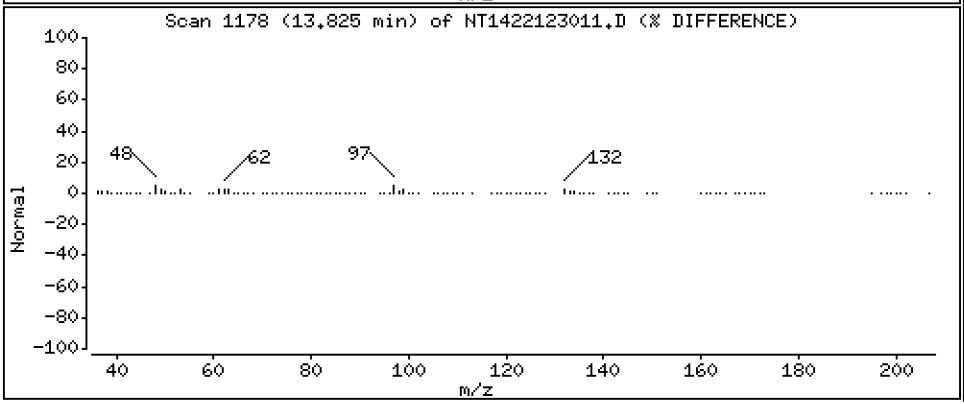
35 2,4,5-Trichlorophenol

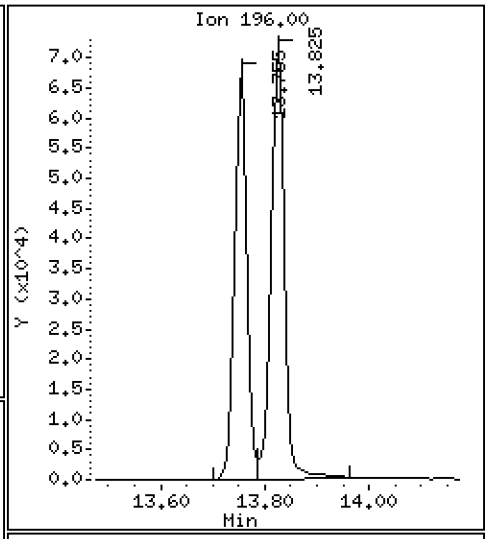
Concentration: 4.278 ug/mL

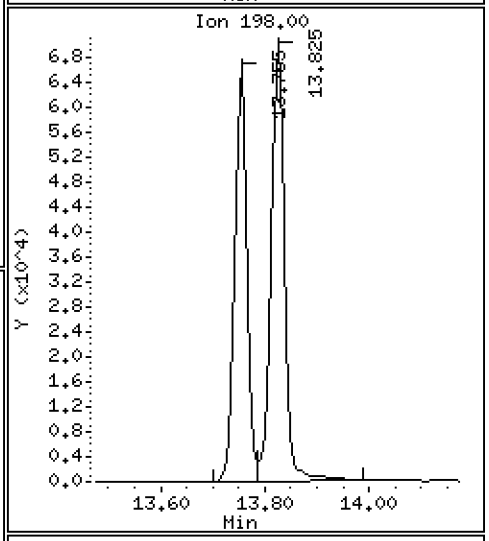


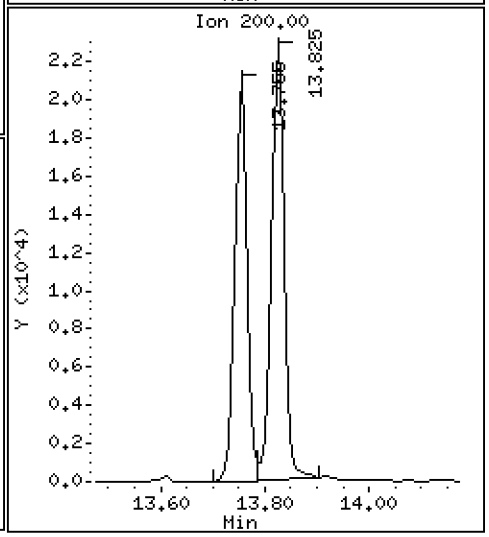












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

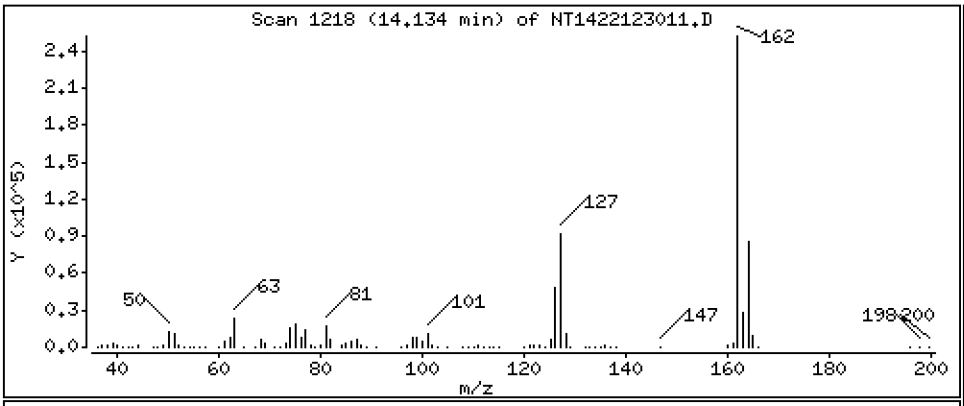
Operator: VTS

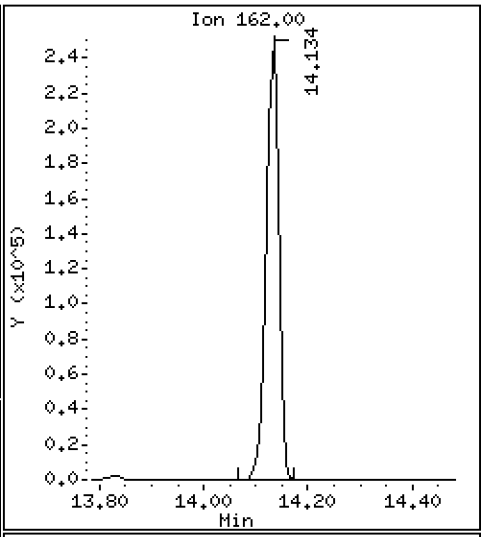
Column phase: ZB-5msi

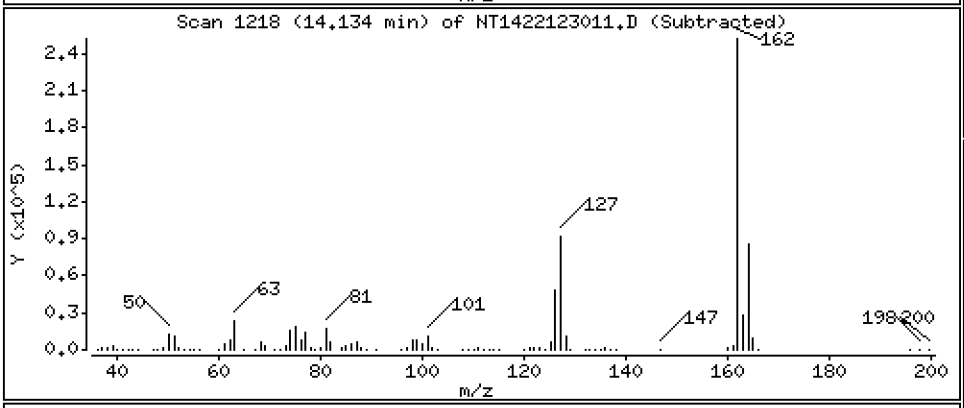
Column diameter: 0.25

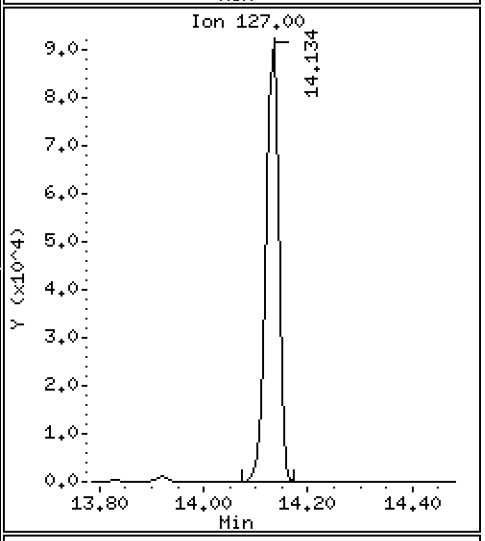
37 2-Chloronaphthalene

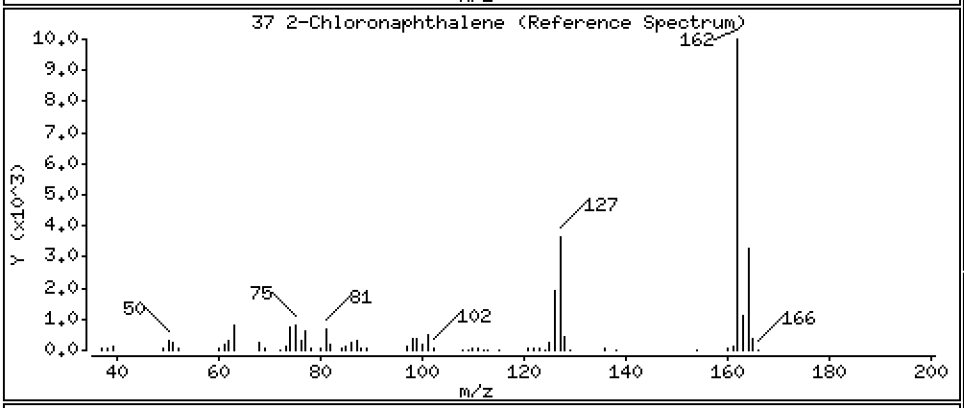
Concentration: 4.754 ug/mL

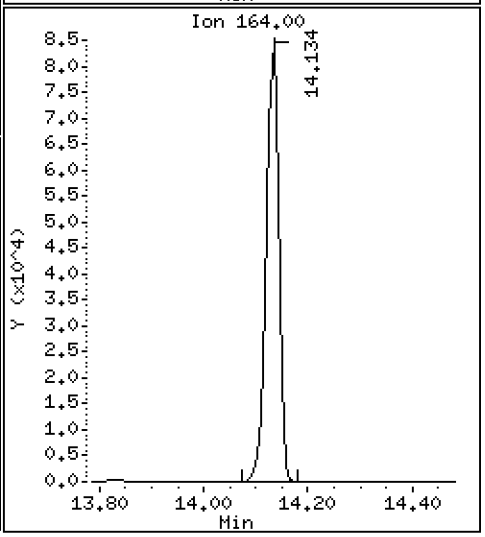


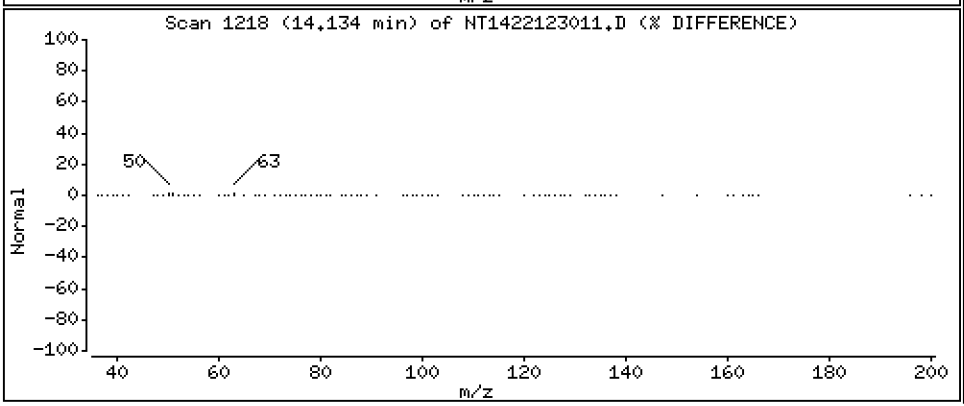












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

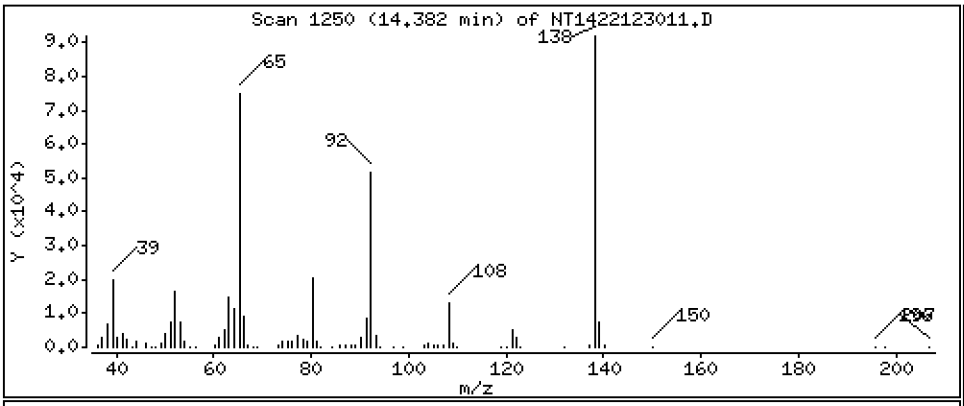
Operator: VTS

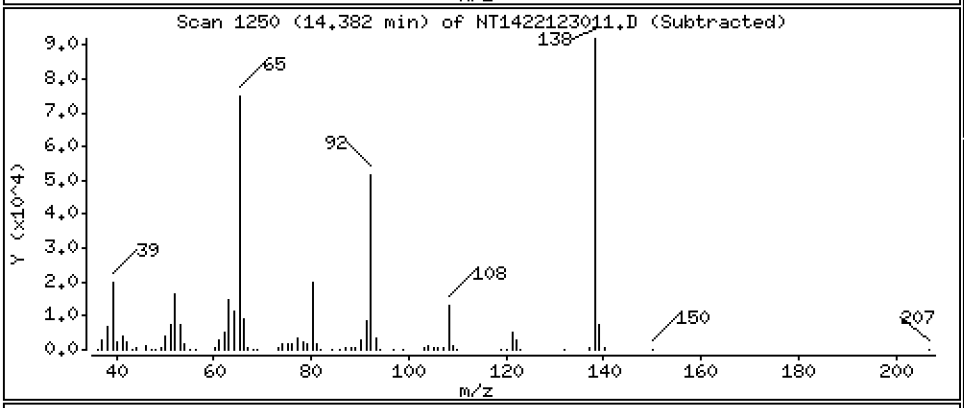
Column phase: ZB-5msi

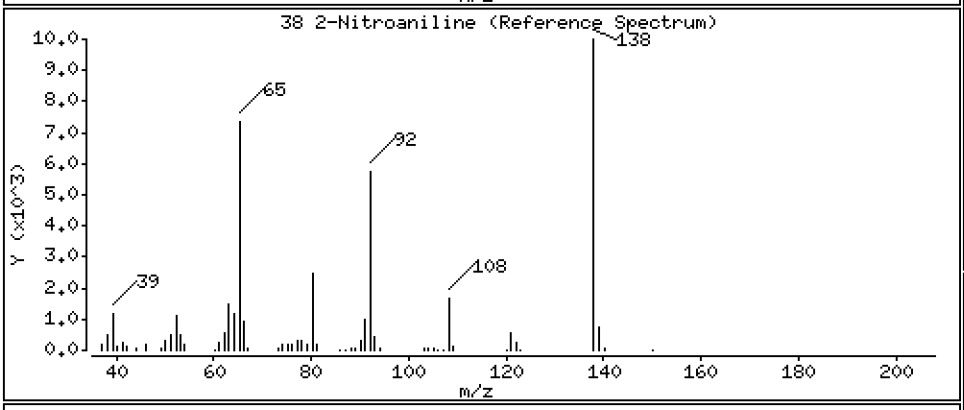
Column diameter: 0.25

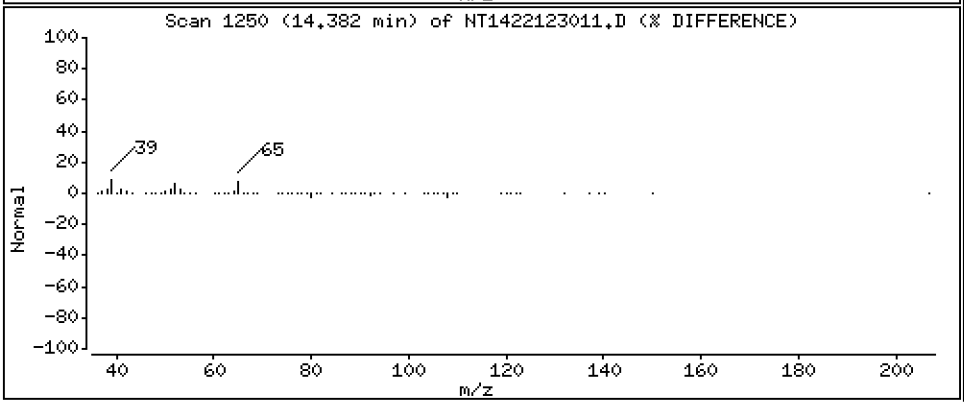
38 2-Nitroaniline

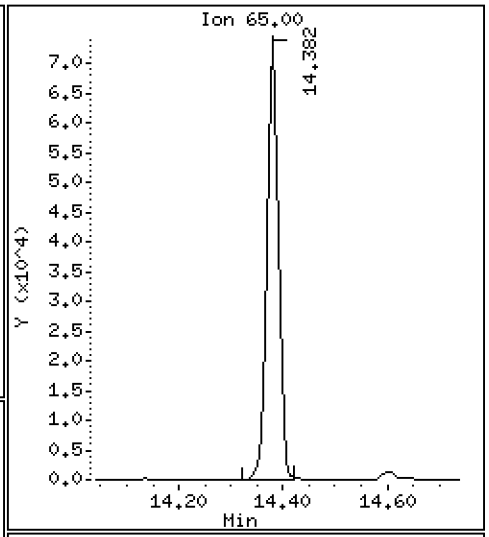
Concentration: 5.043 ug/mL

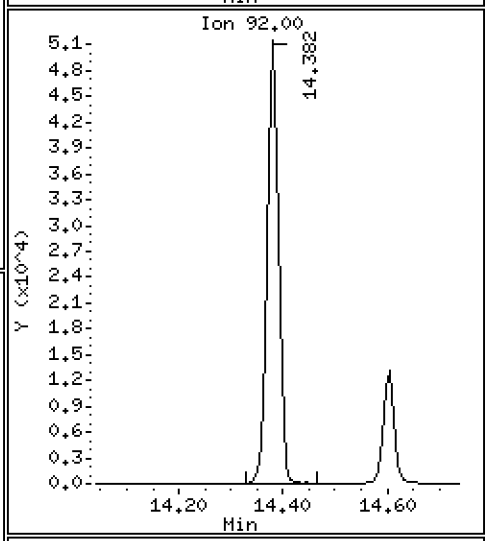


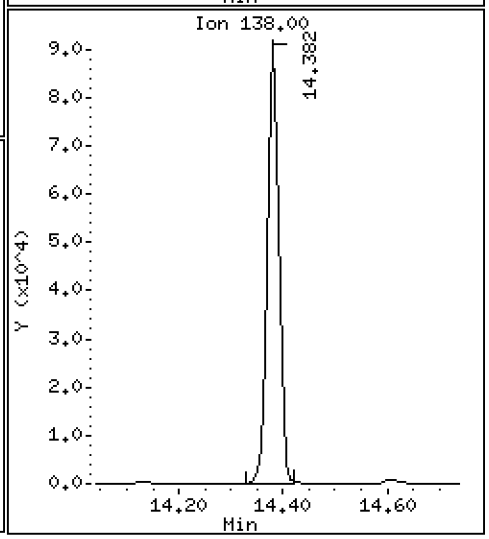












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

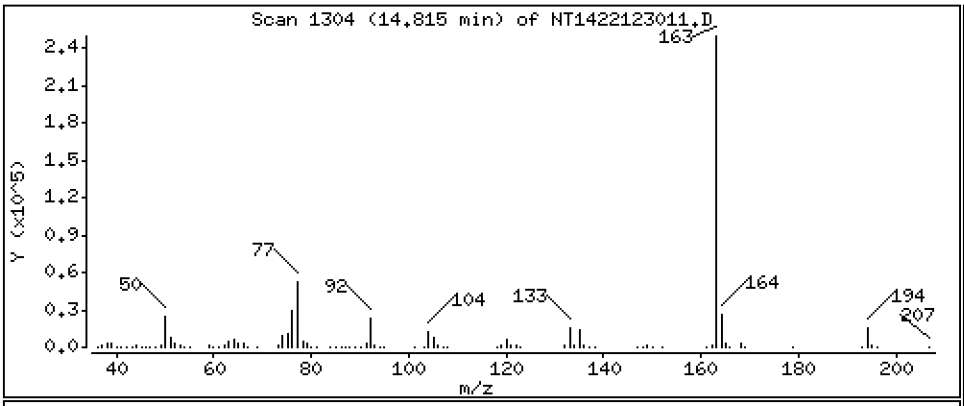
Operator: VTS

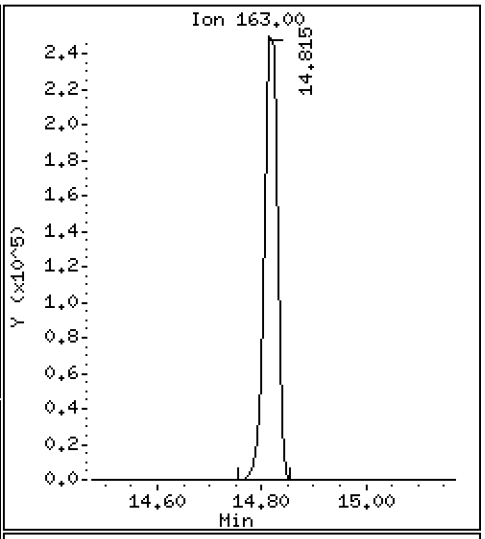
Column phase: ZB-5msi

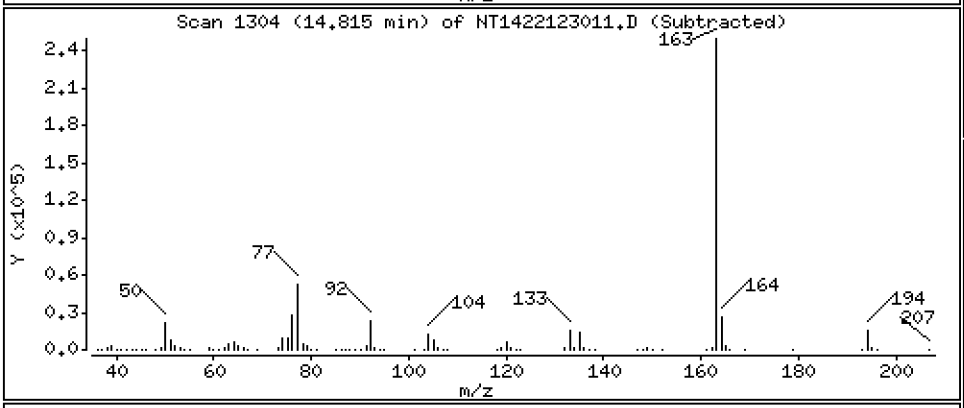
Column diameter: 0.25

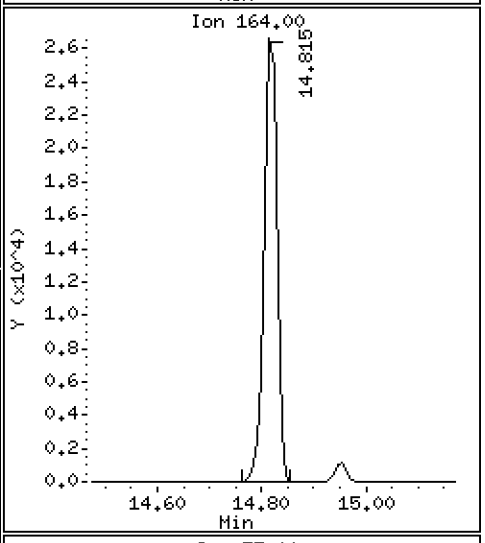
39 Dimethylphthalate

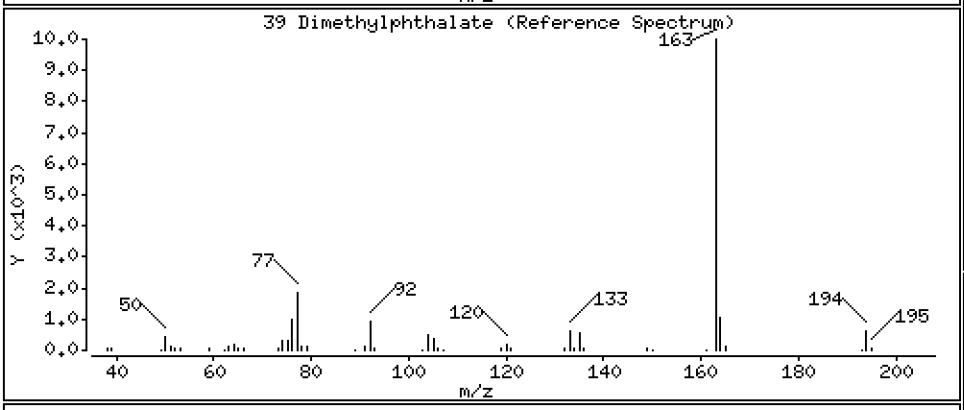
Concentration: 5.023 ug/mL

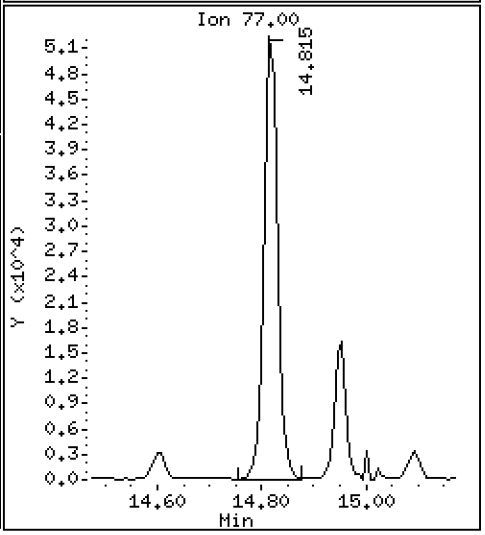


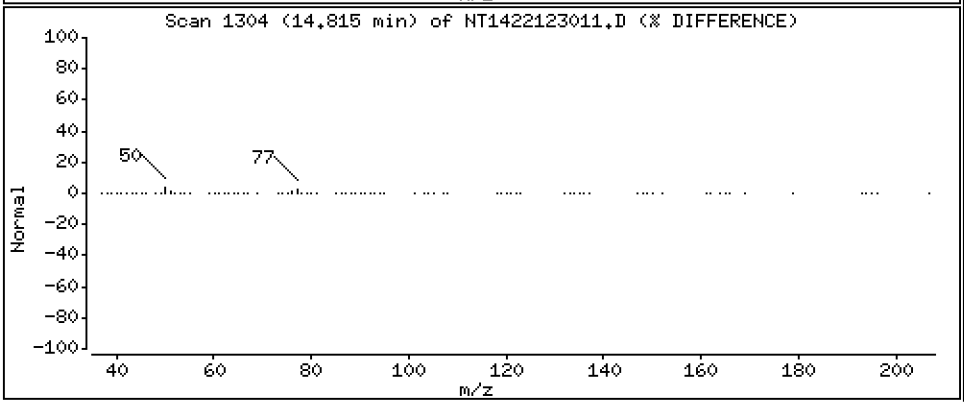












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

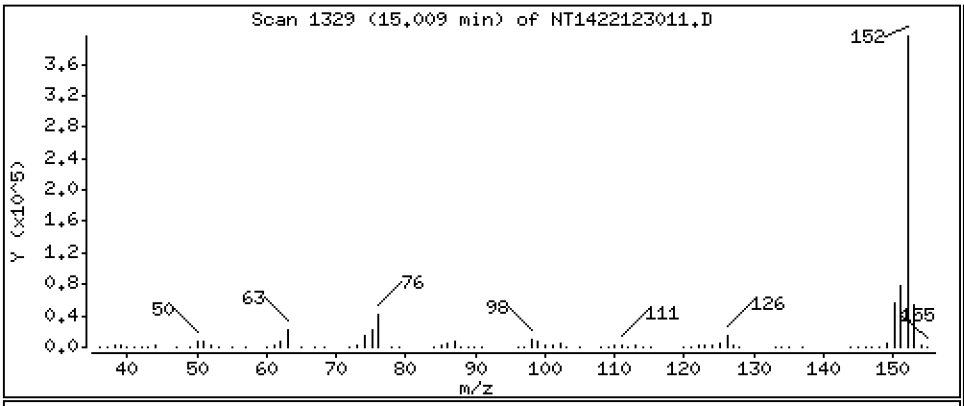
Operator: VTS

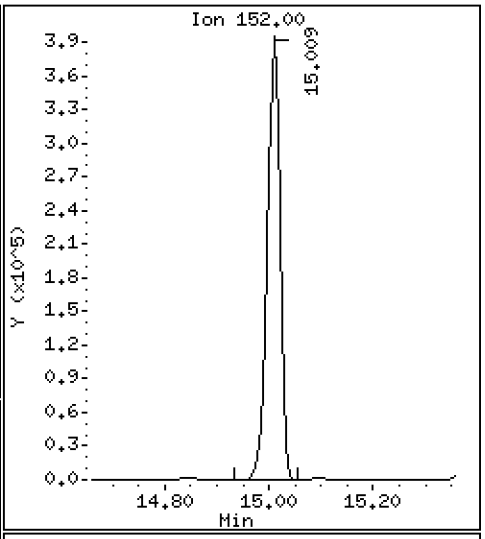
Column phase: ZB-5msi

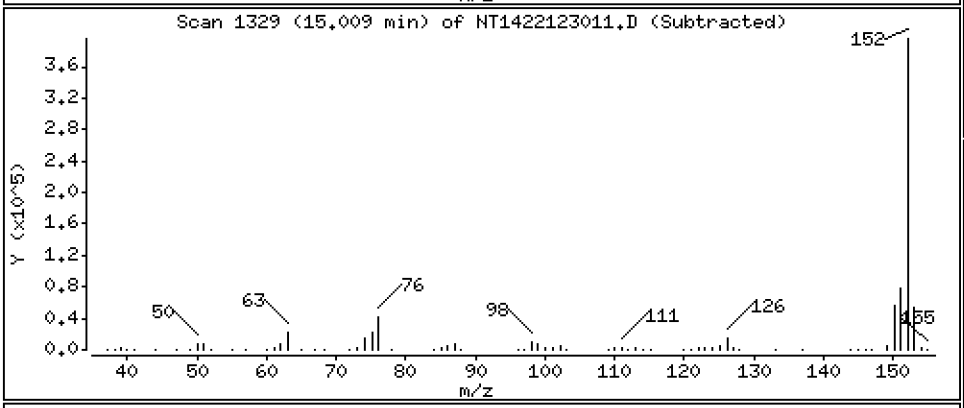
Column diameter: 0.25

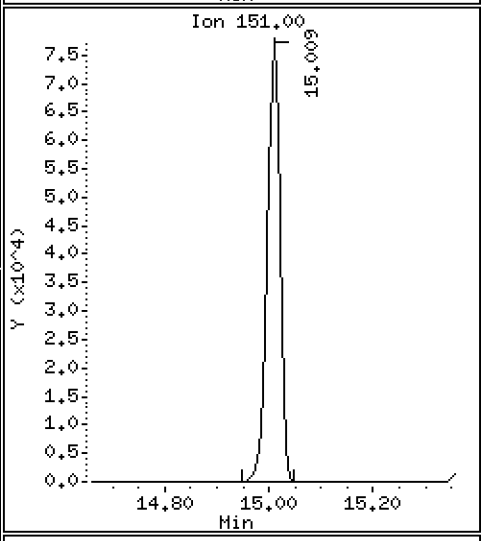
40 Acenaphthylene

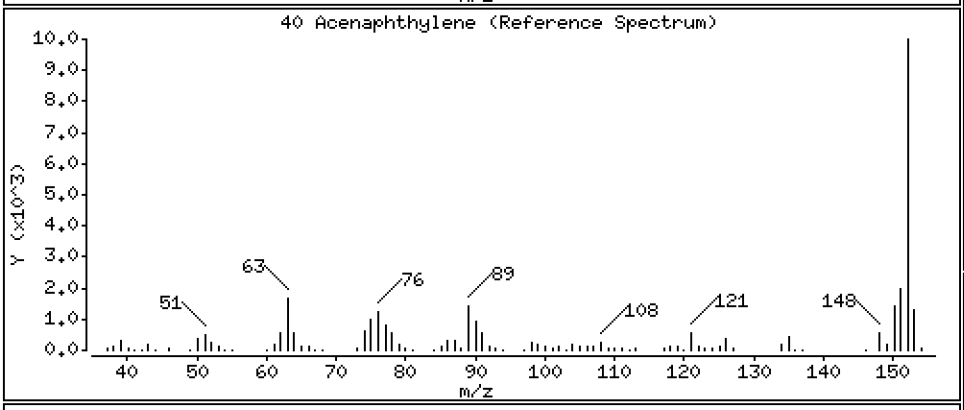
Concentration: 5.000 ug/mL

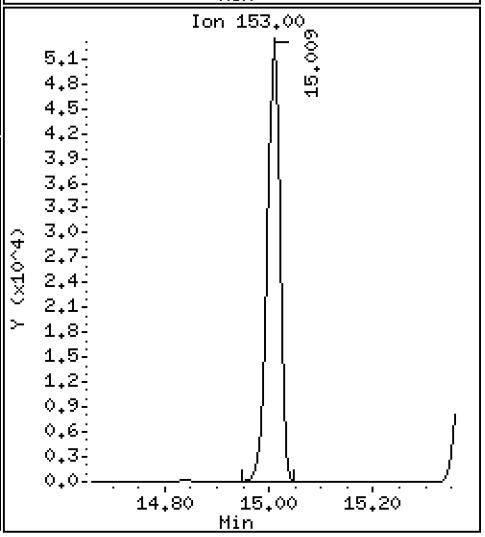


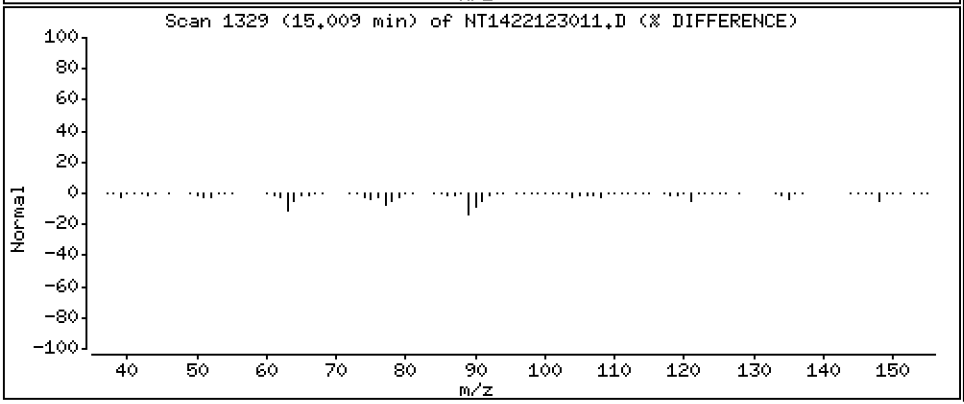












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

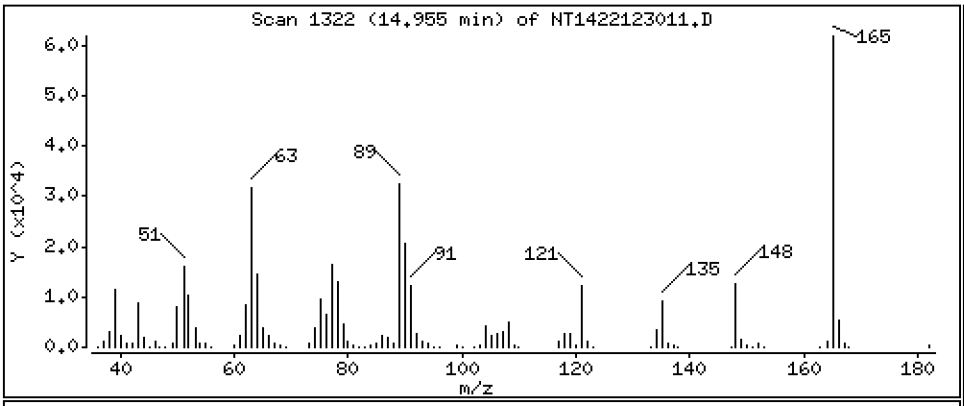
Operator: VTS

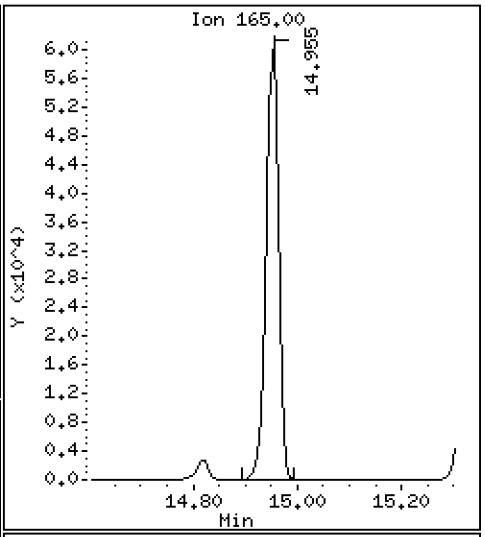
Column phase: ZB-5msi

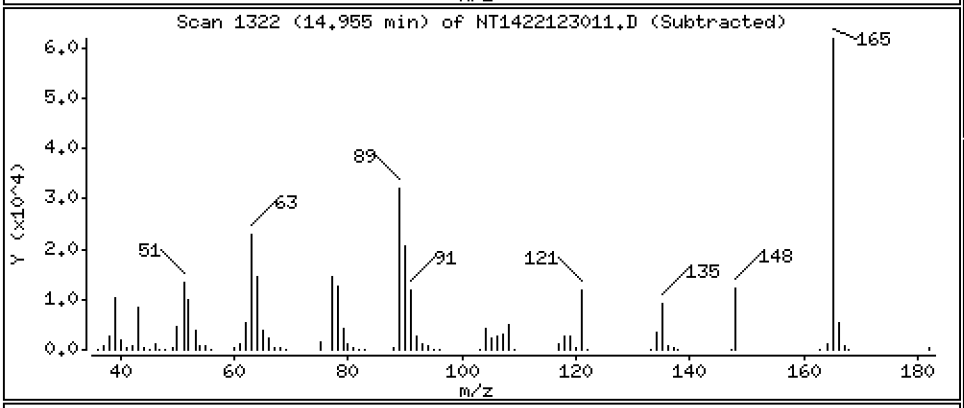
Column diameter: 0.25

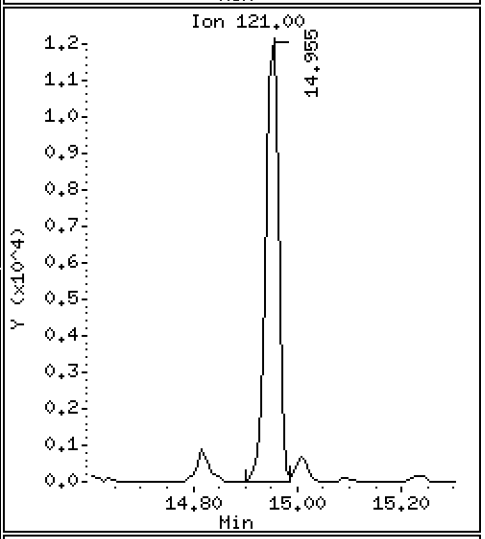
41 2,6-Dinitrotoluene

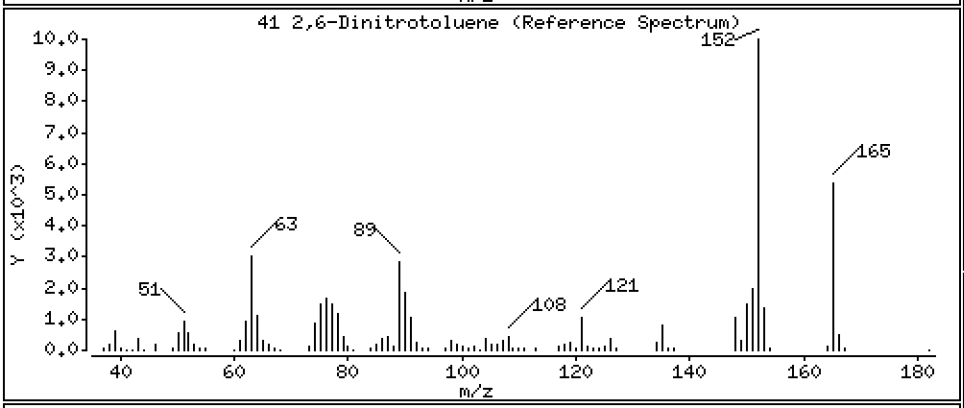
Concentration: 5.115 ug/mL

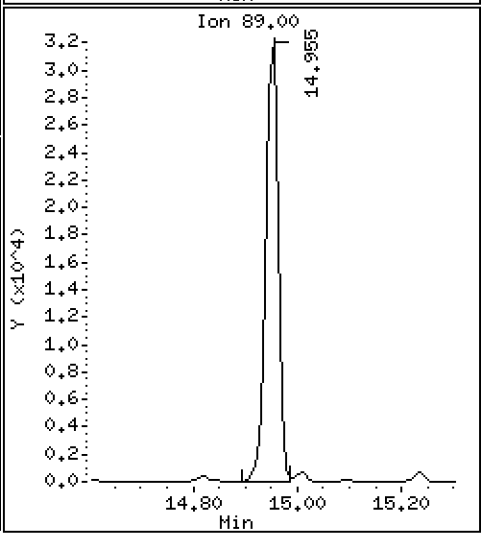


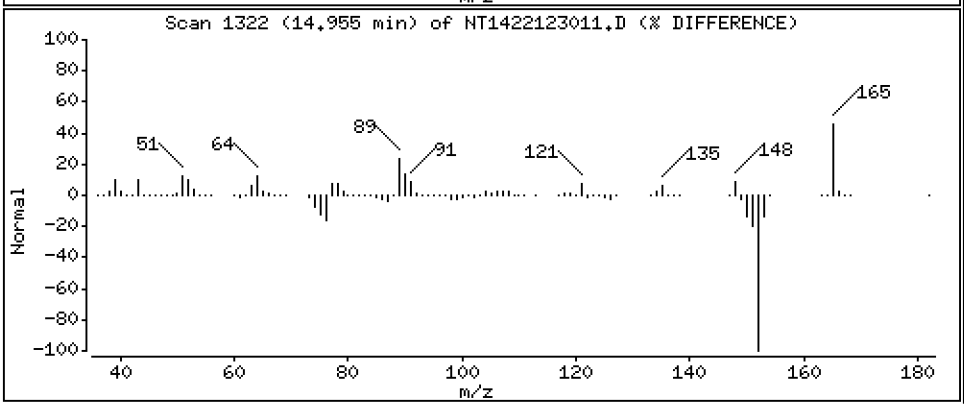












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

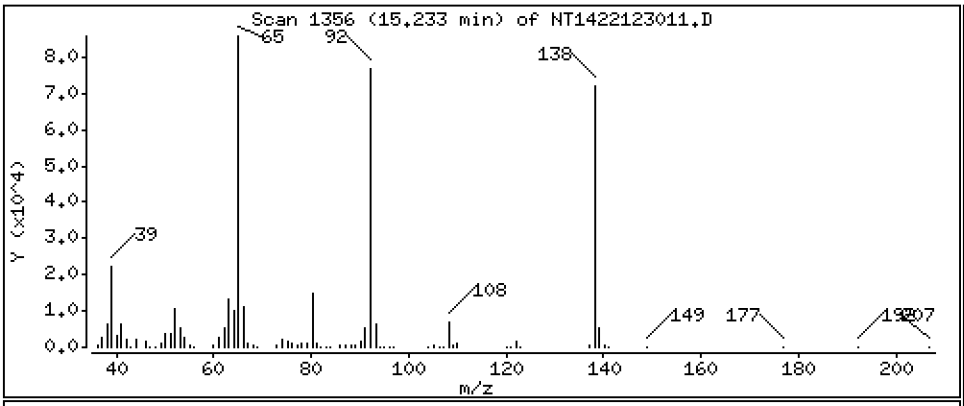
Operator: VTS

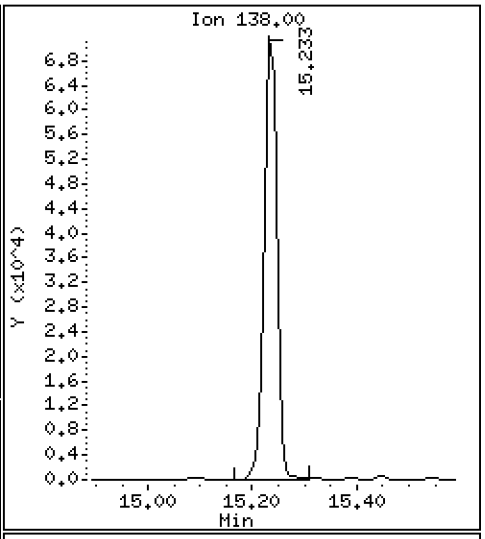
Column phase: ZB-5msi

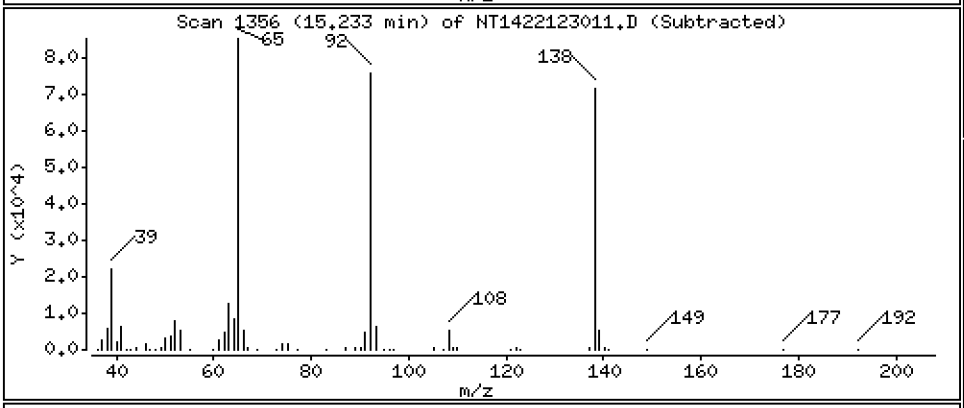
Column diameter: 0.25

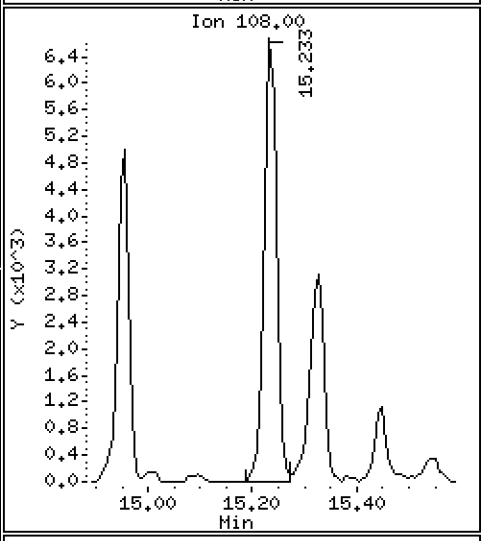
43 3-Nitroaniline

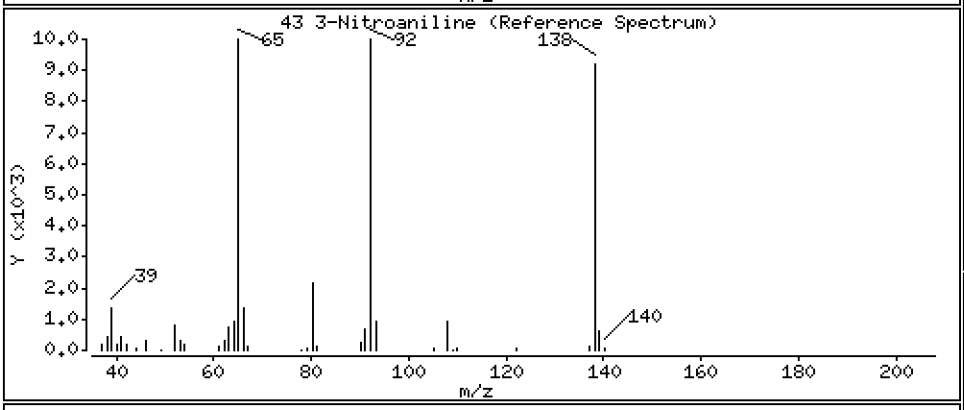
Concentration: 5.088 ug/mL

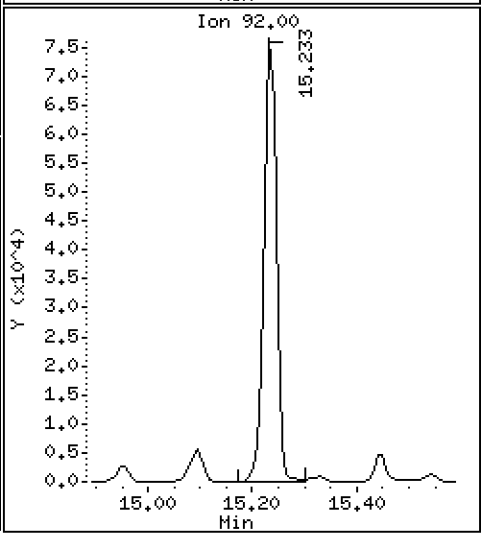


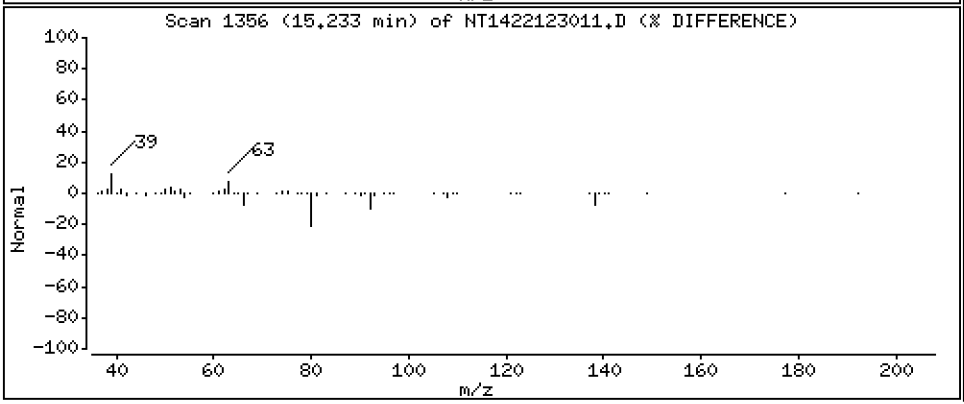












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

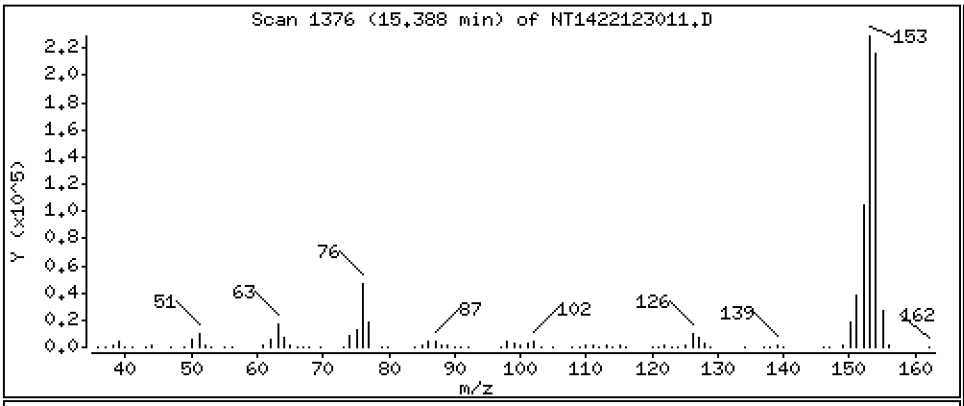
Operator: VTS

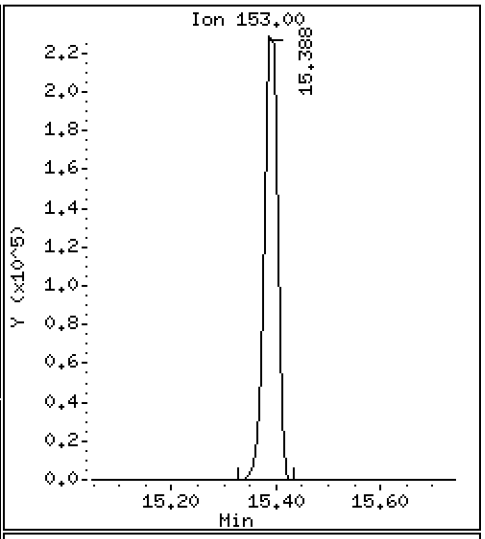
Column phase: ZB-5msi

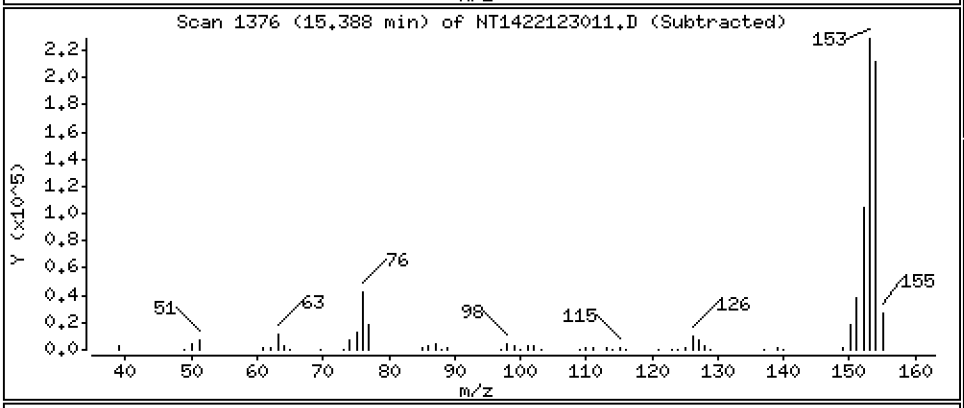
Column diameter: 0.25

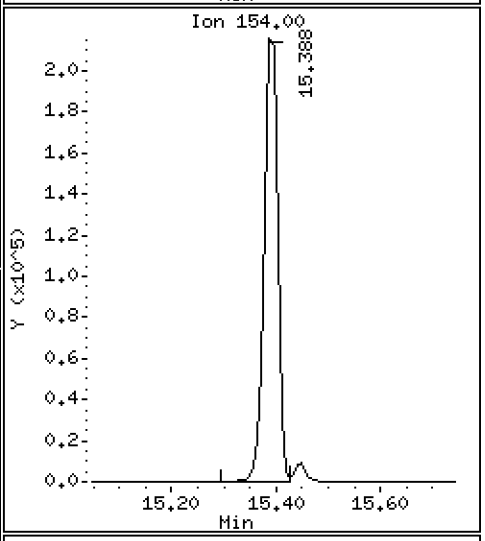
44 Acenaphthene

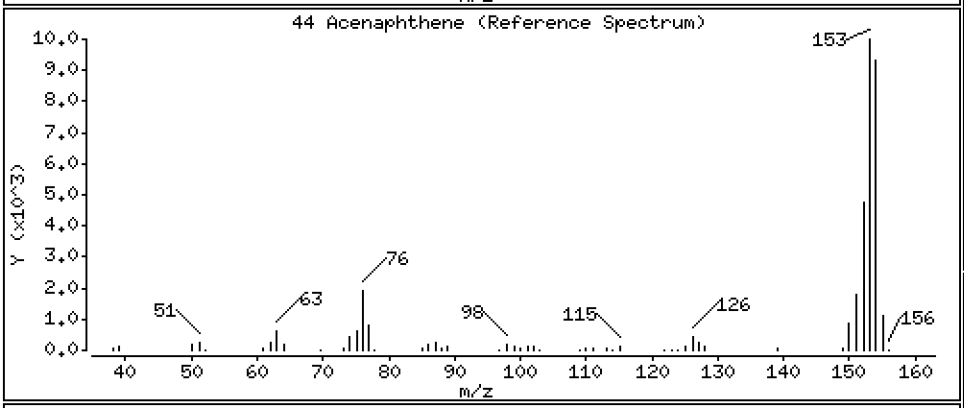
Concentration: 4.916 ug/mL

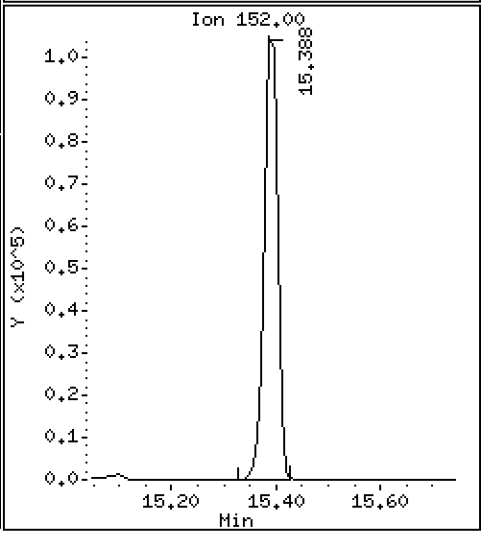


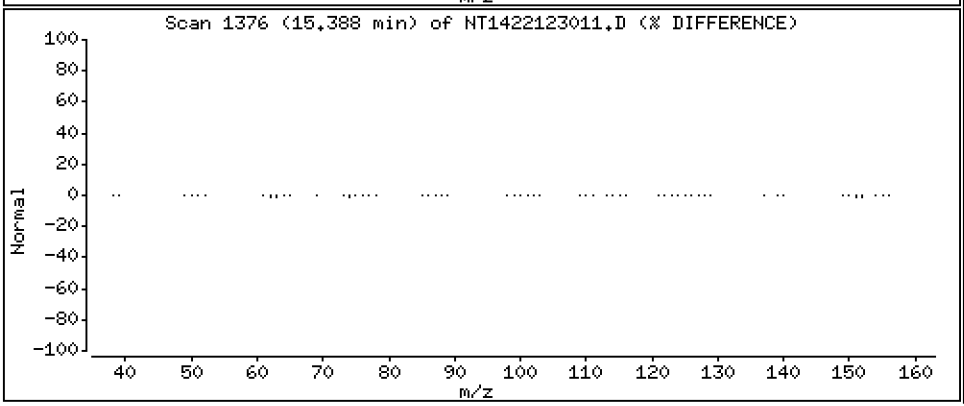












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

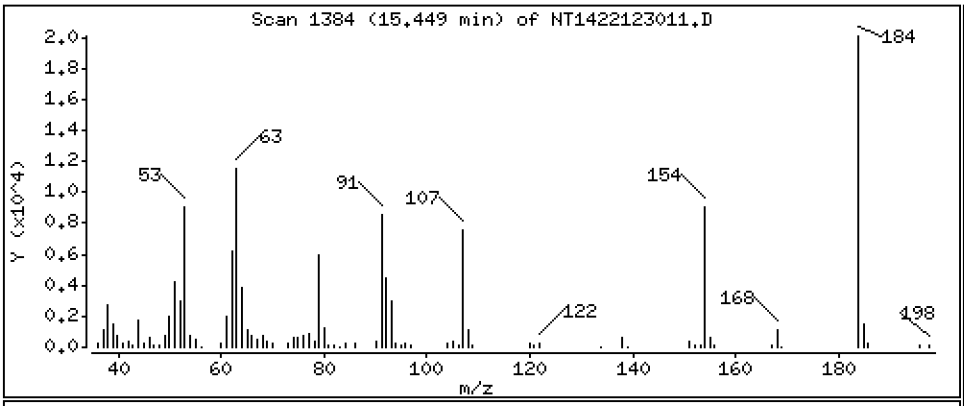
Operator: VTS

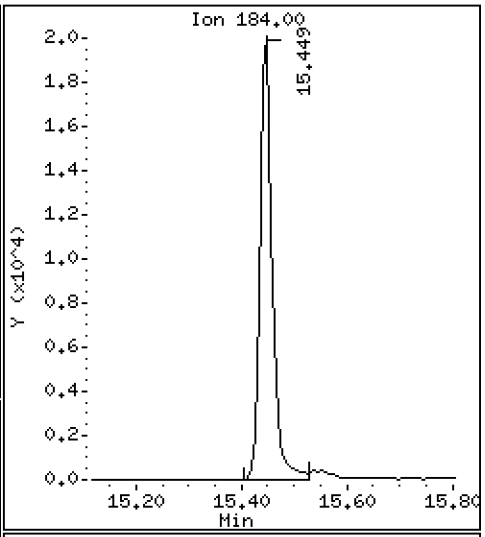
Column phase: ZB-5msi

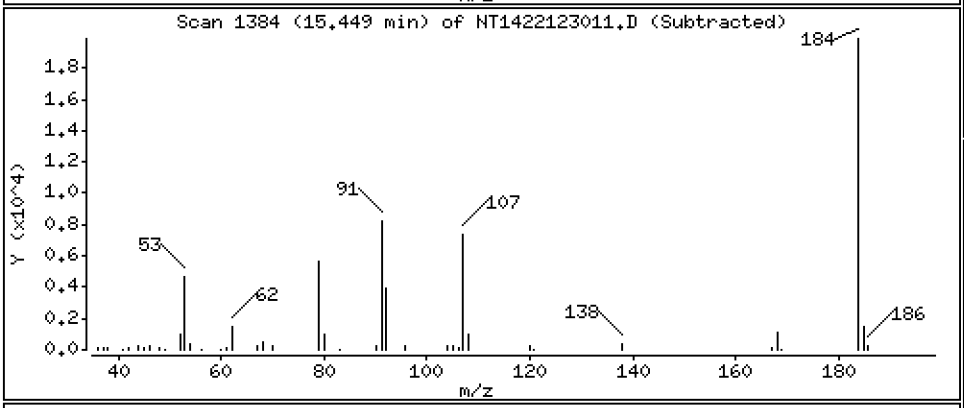
Column diameter: 0.25

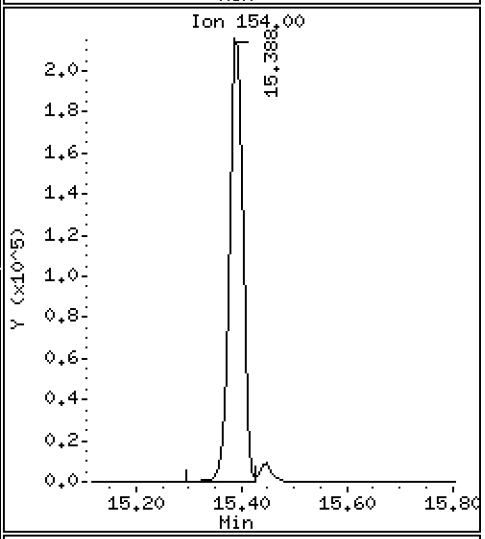
45 2,4-Dinitrophenol

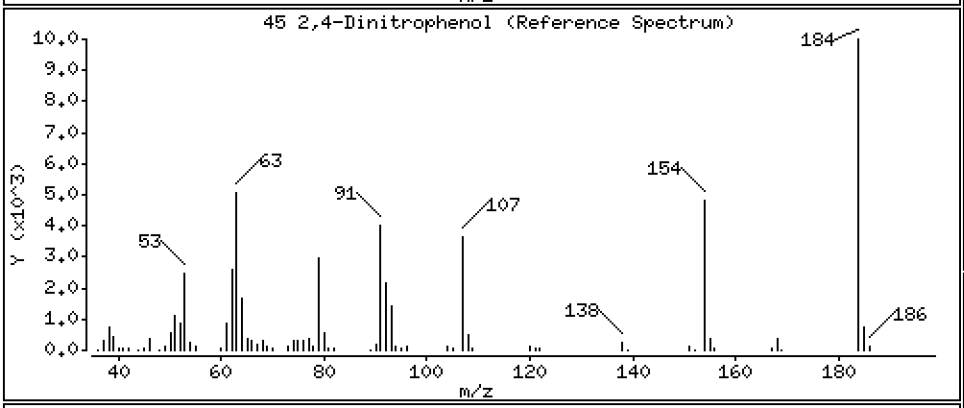
Concentration: 2.036 ug/mL

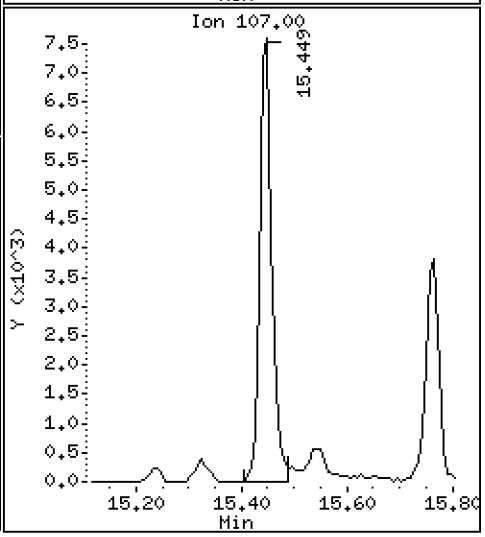


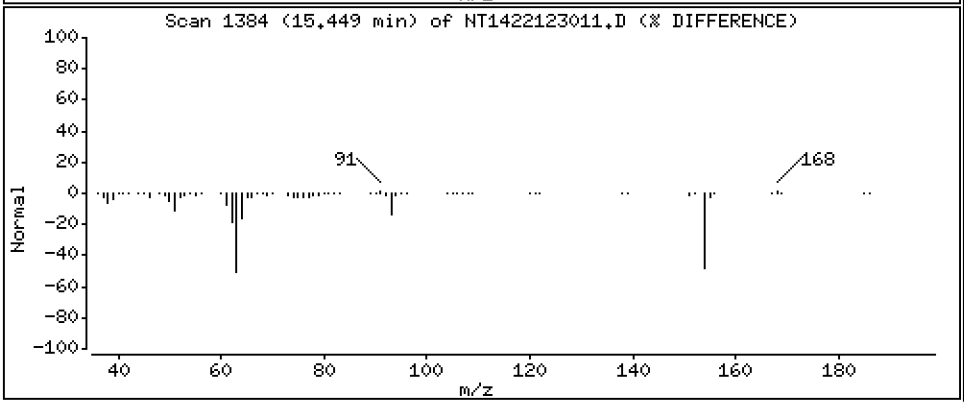












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

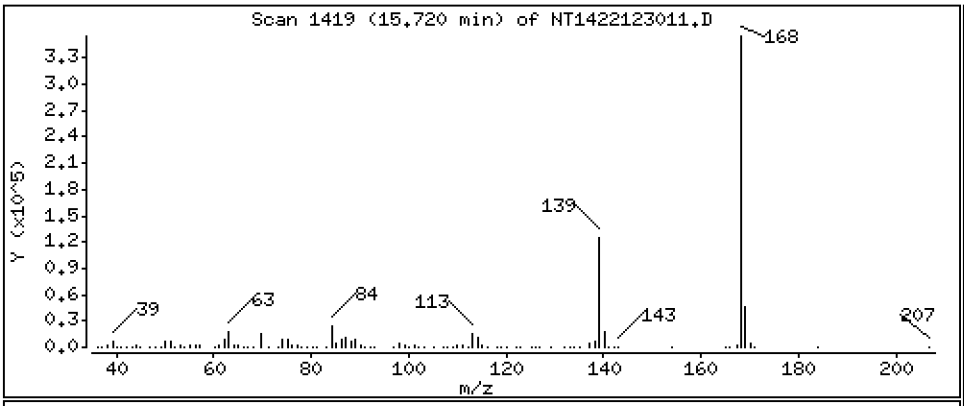
Operator: VTS

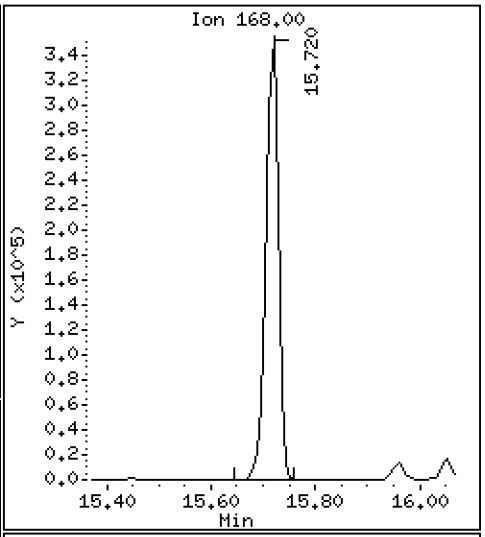
Column phase: ZB-5msi

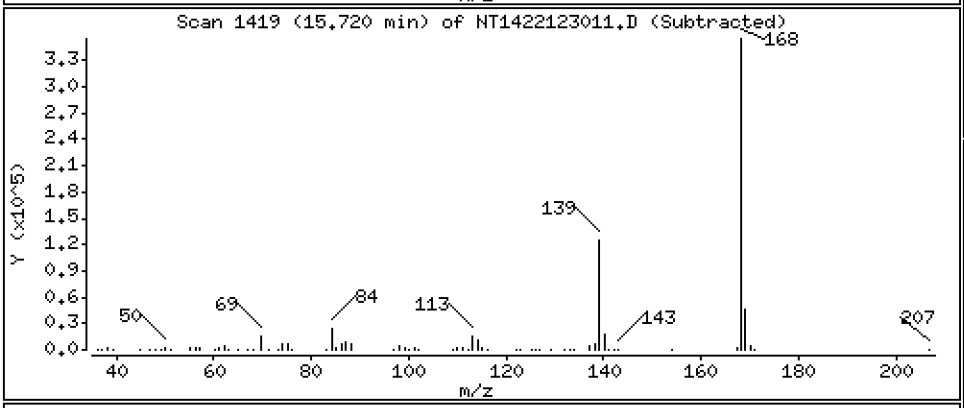
Column diameter: 0.25

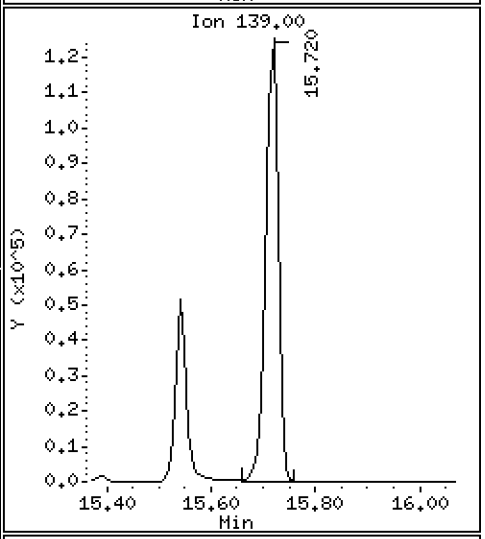
46 Dibenzofuran

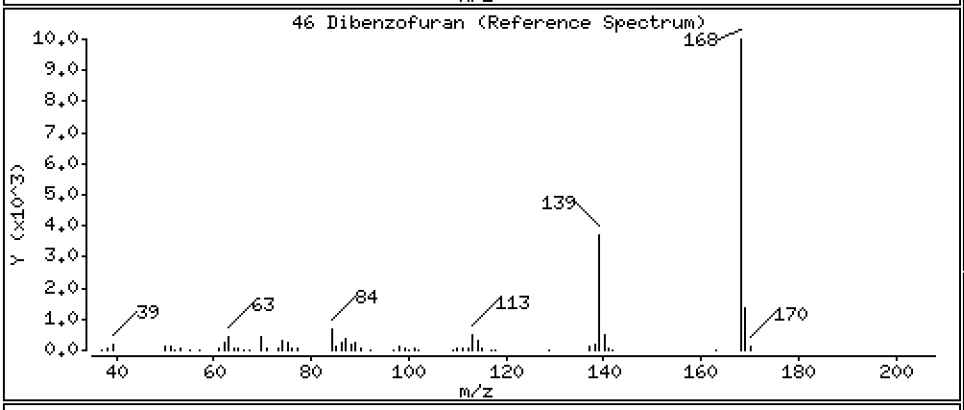
Concentration: 4.709 ug/mL

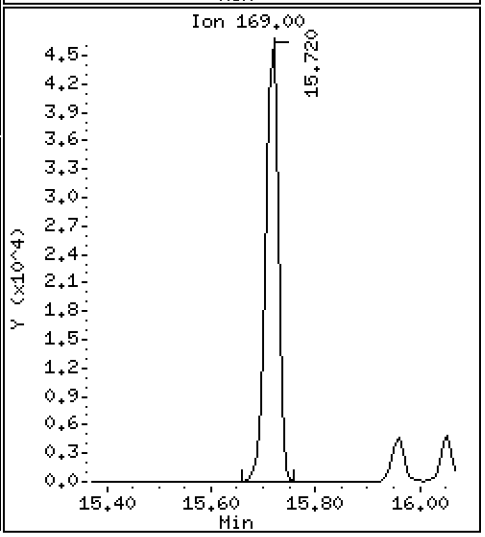


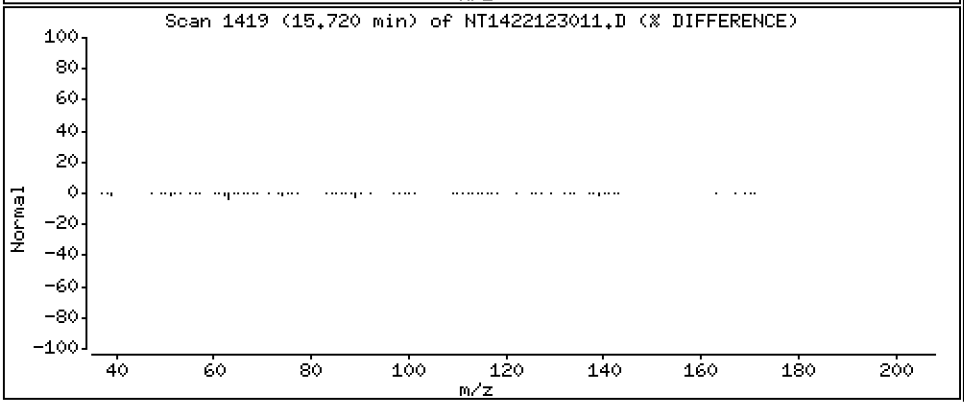












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

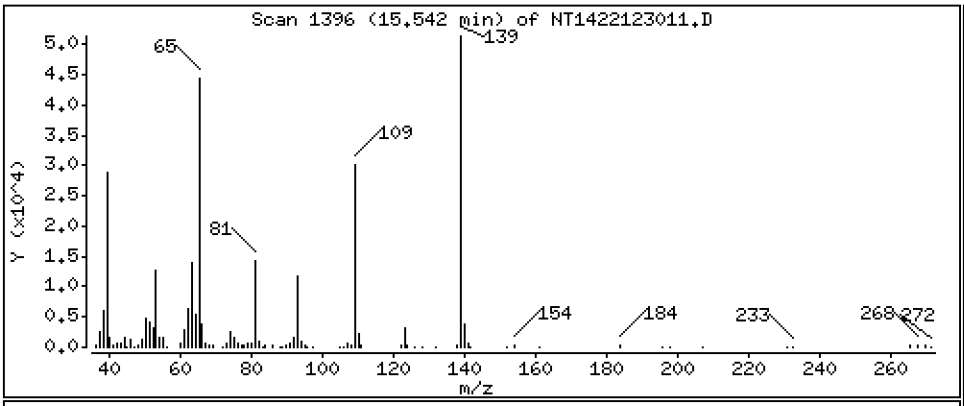
Operator: VTS

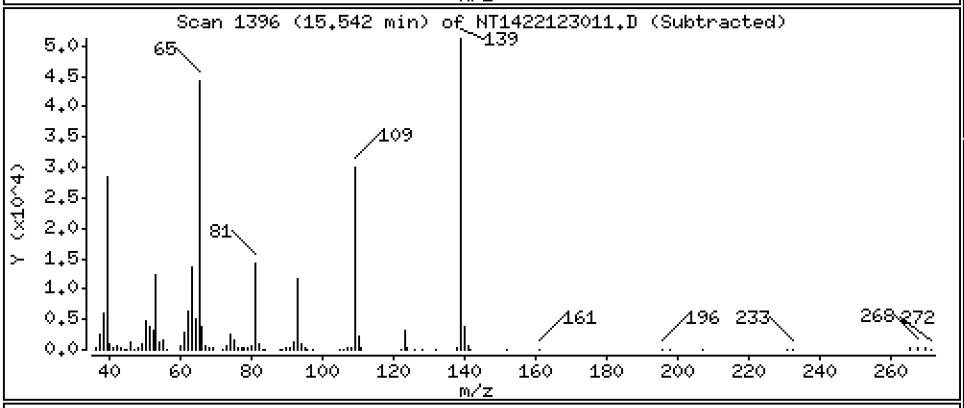
Column phase: ZB-5msi

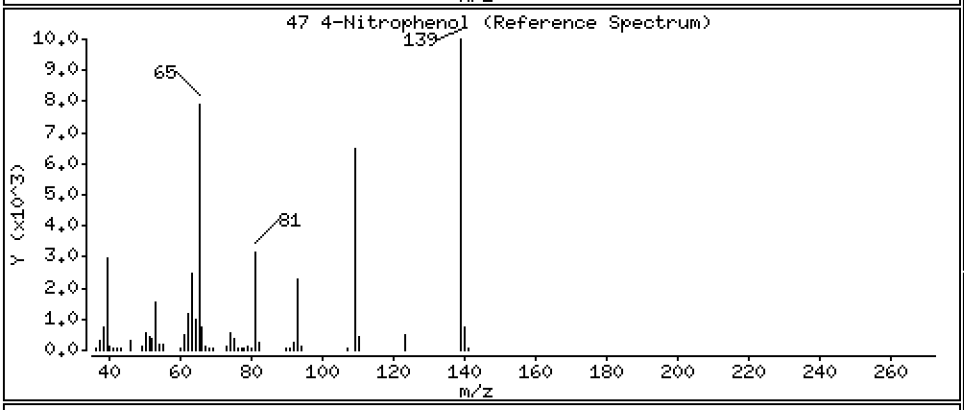
Column diameter: 0.25

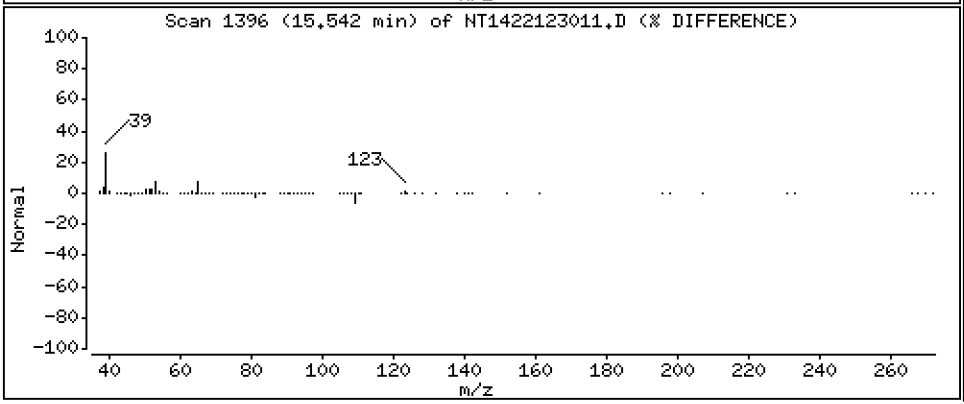
47 4-Nitrophenol

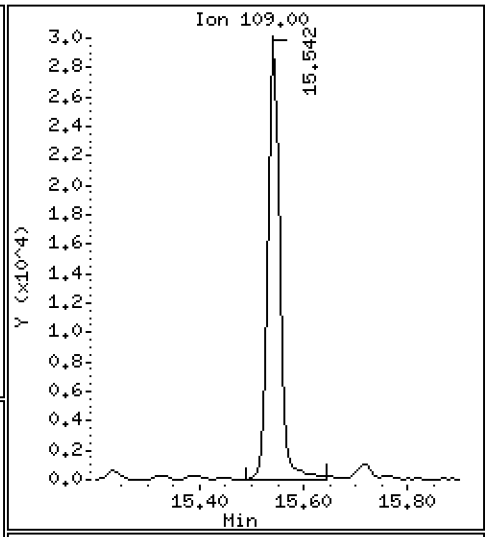
Concentration: 4.077 ug/mL

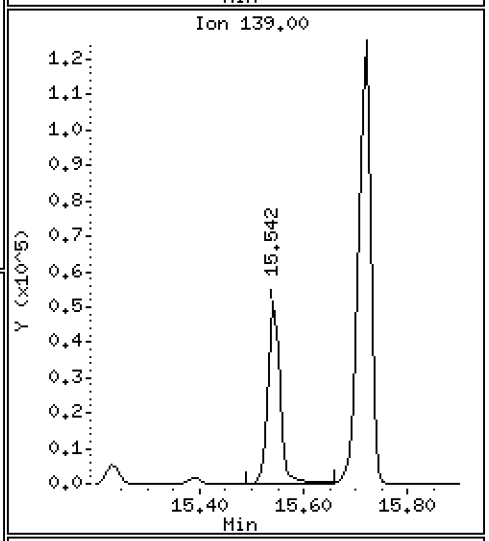


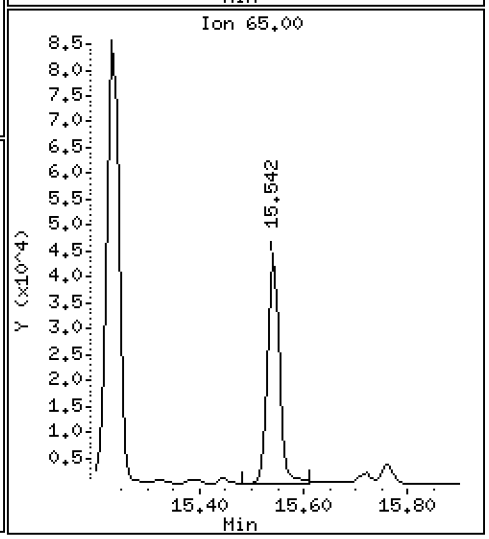












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

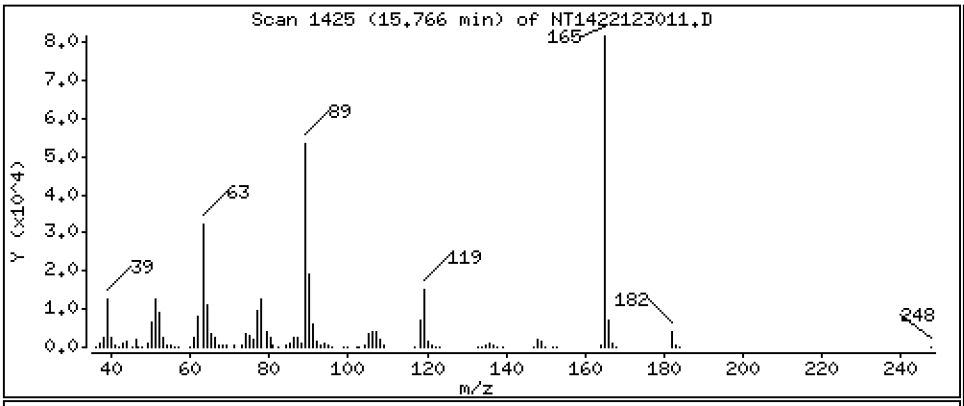
Operator: VTS

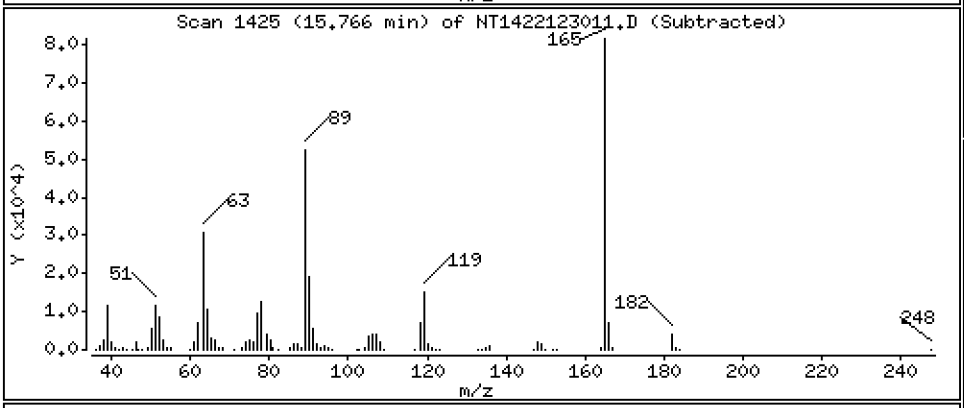
Column phase: ZB-5msi

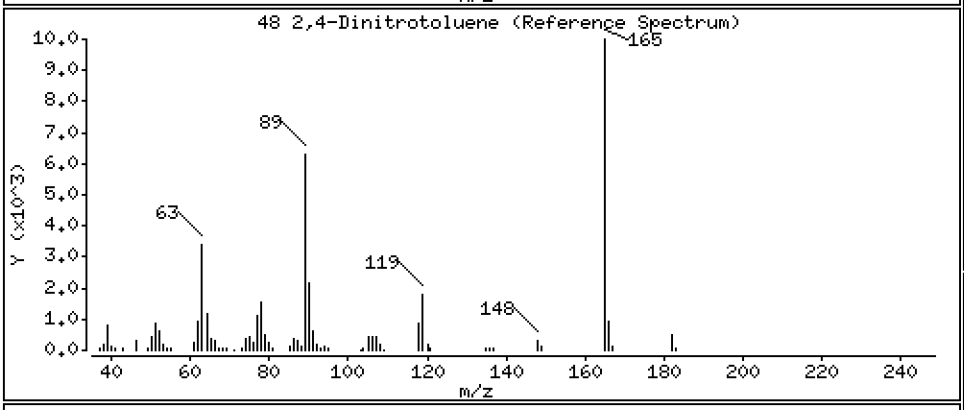
Column diameter: 0.25

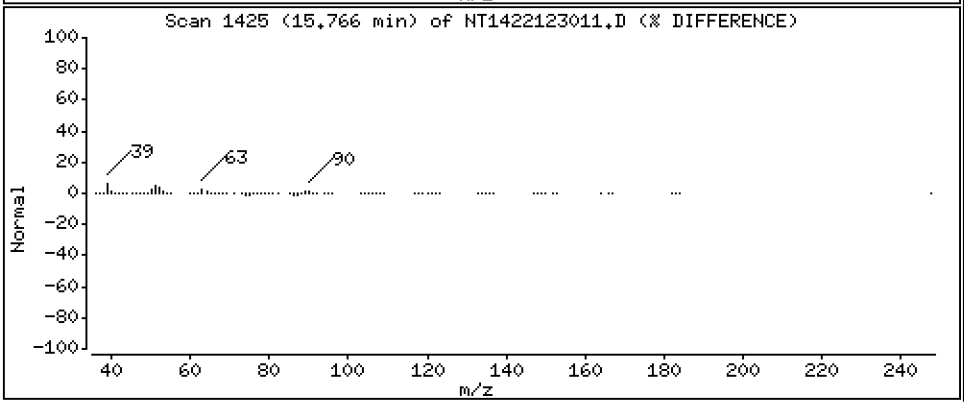
48 2,4-Dinitrotoluene

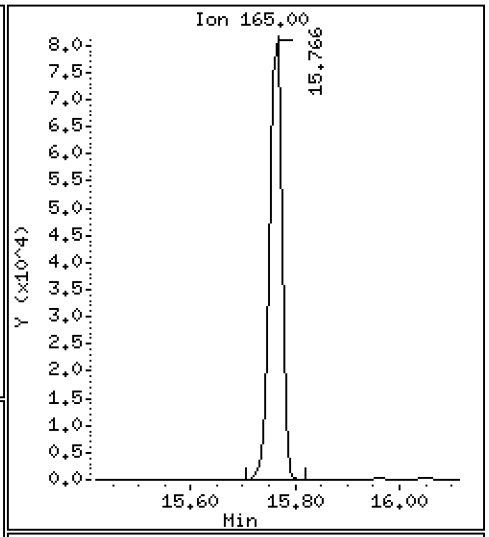
Concentration: 4.956 ug/mL

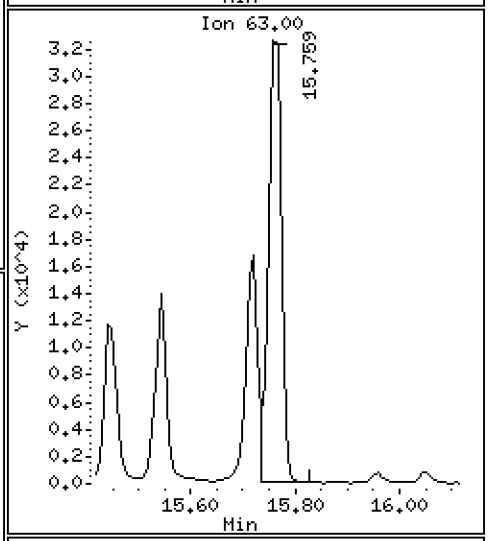


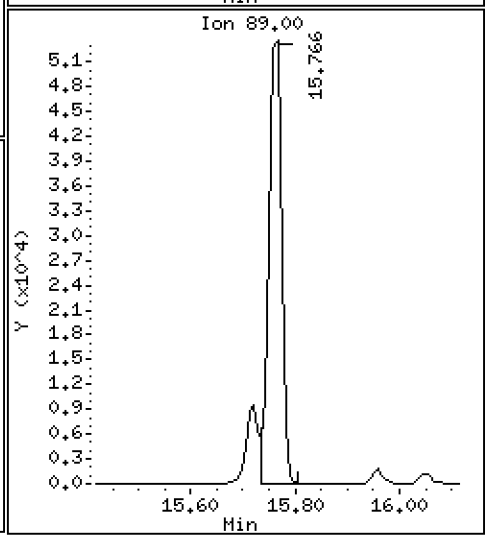












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

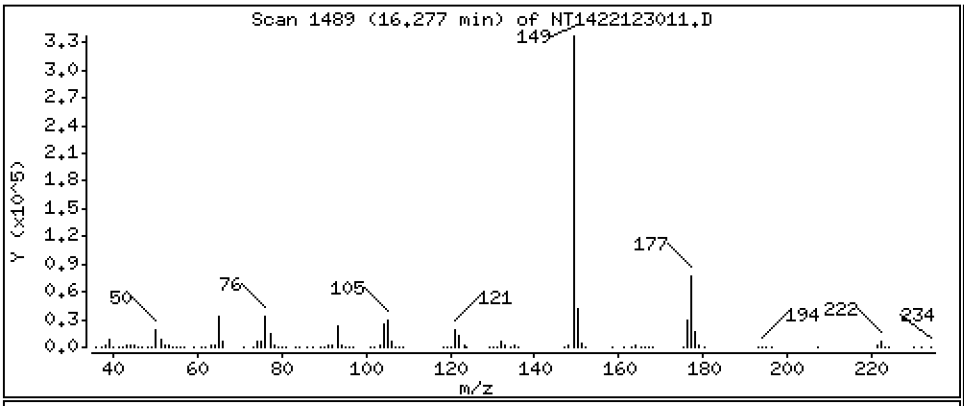
Operator: VTS

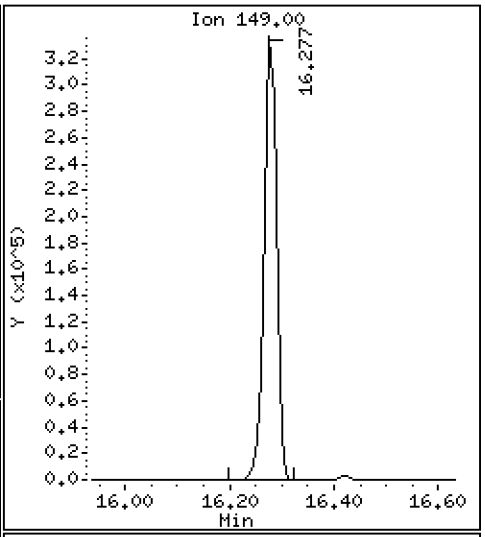
Column phase: ZB-5msi

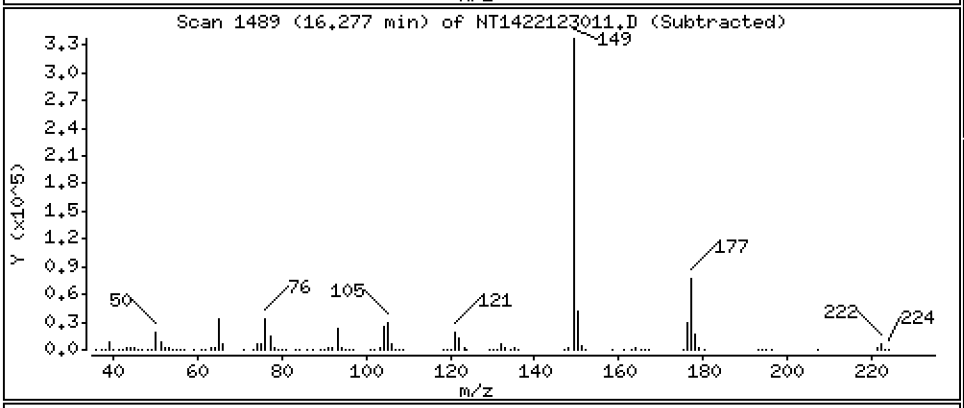
Column diameter: 0.25

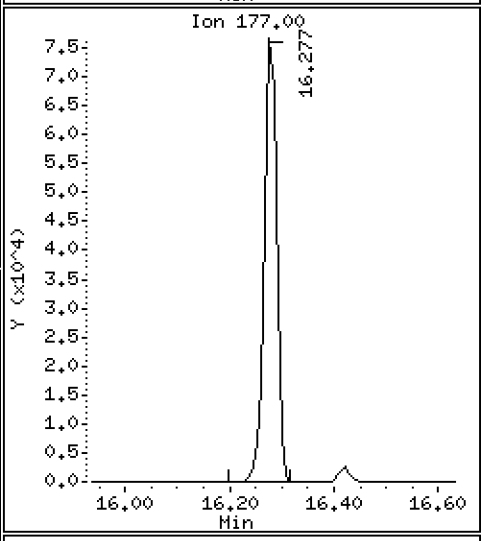
50 Diethylphthalate

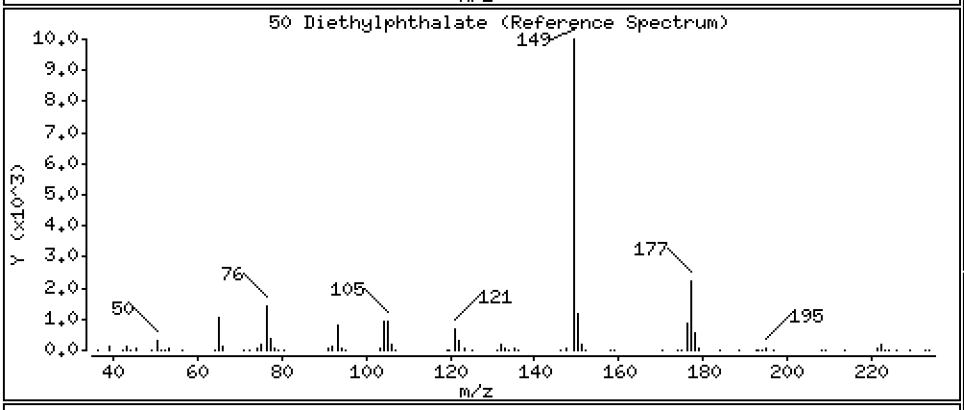
Concentration: 5.353 ug/mL

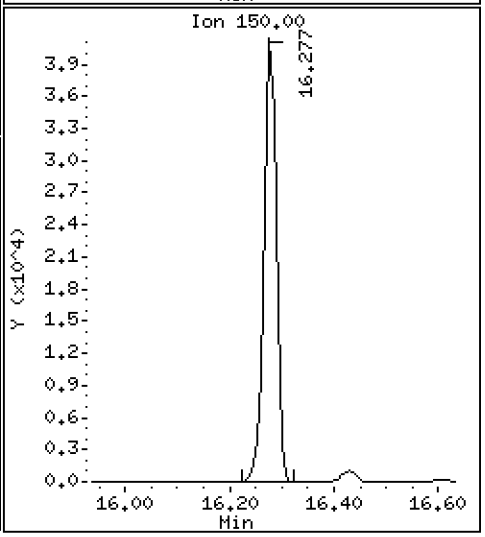


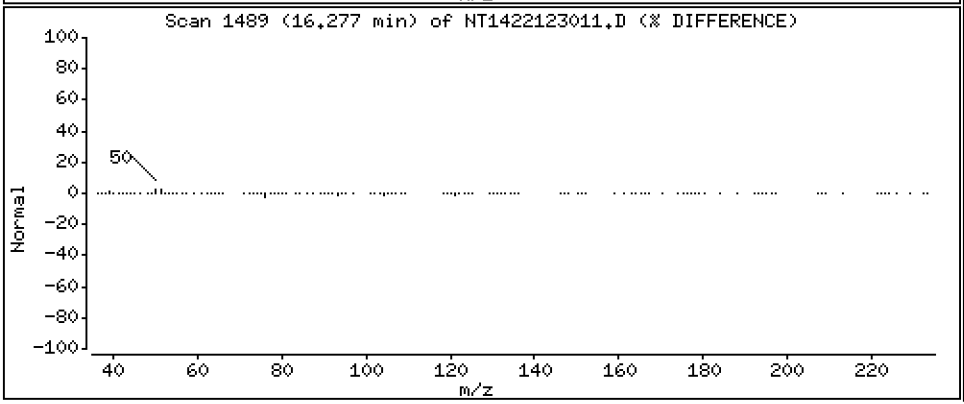












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

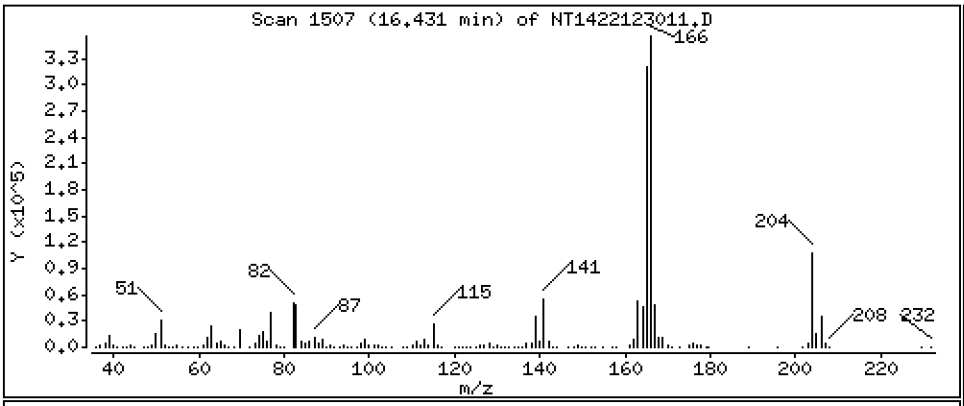
Operator: VTS

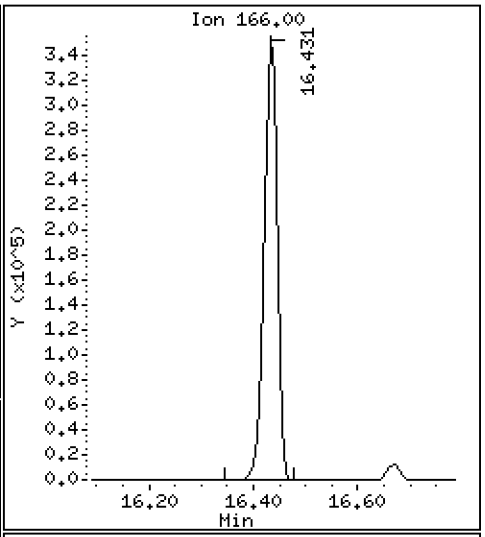
Column phase: ZB-5msi

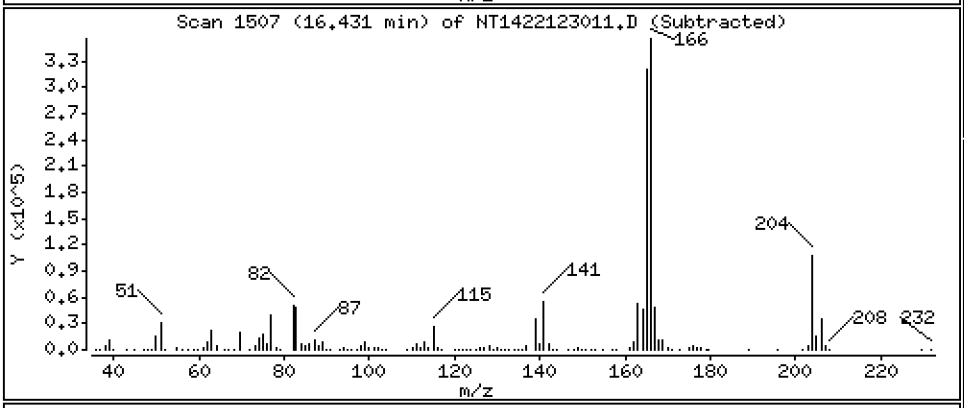
Column diameter: 0.25

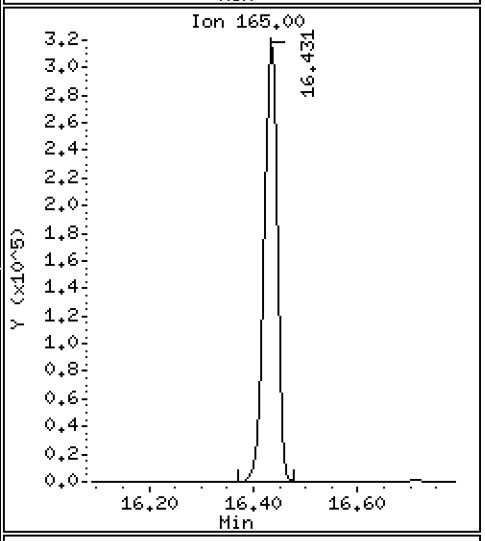
49 Fluorene

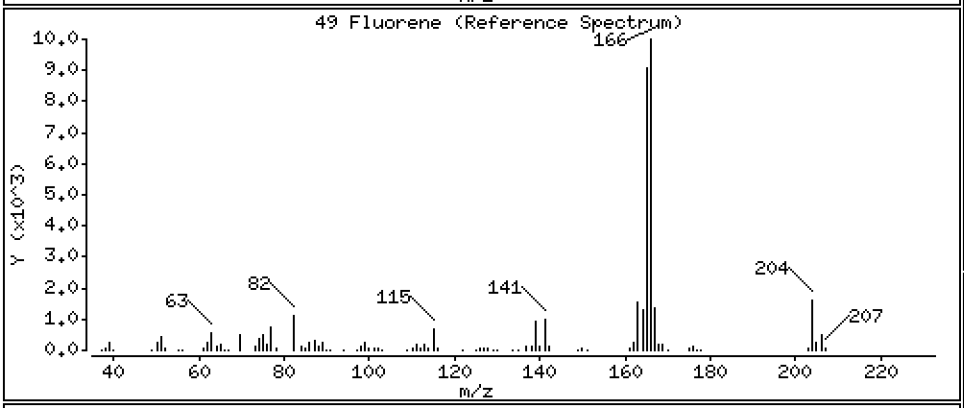
Concentration: 5.230 ug/mL

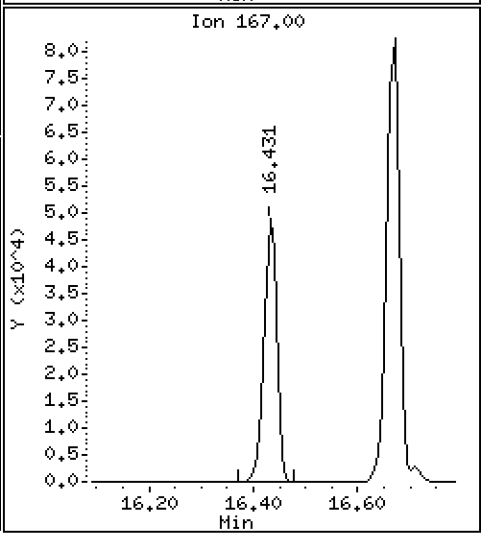


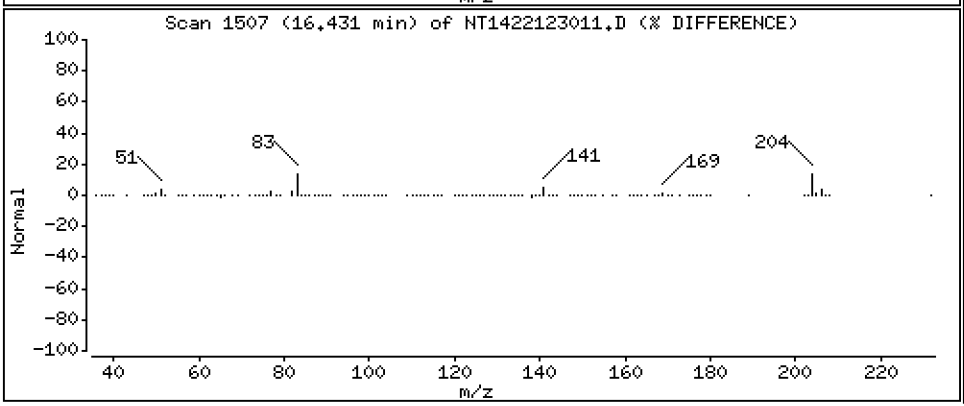












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

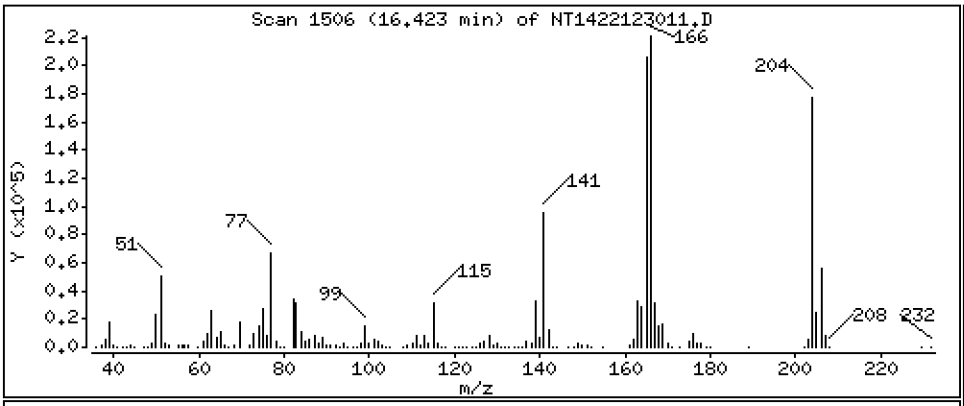
Operator: VTS

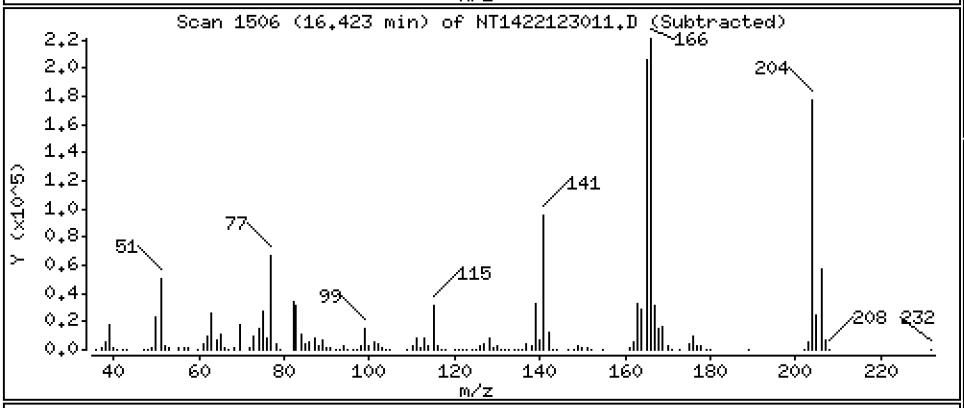
Column phase: ZB-5msi

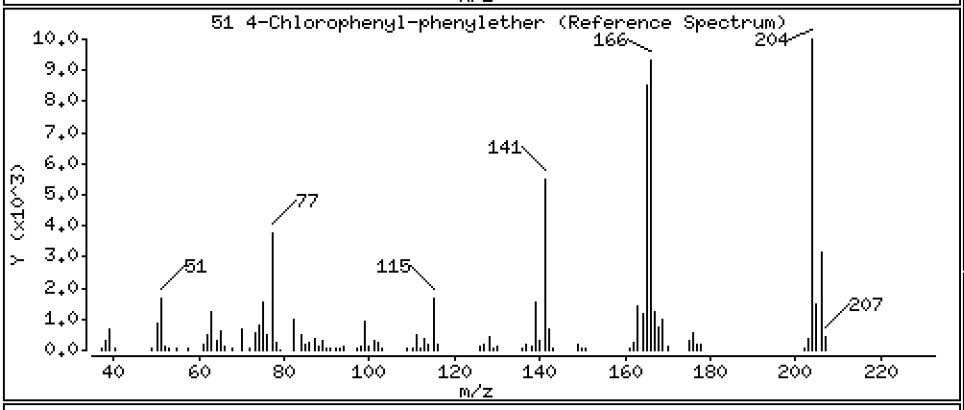
Column diameter: 0.25

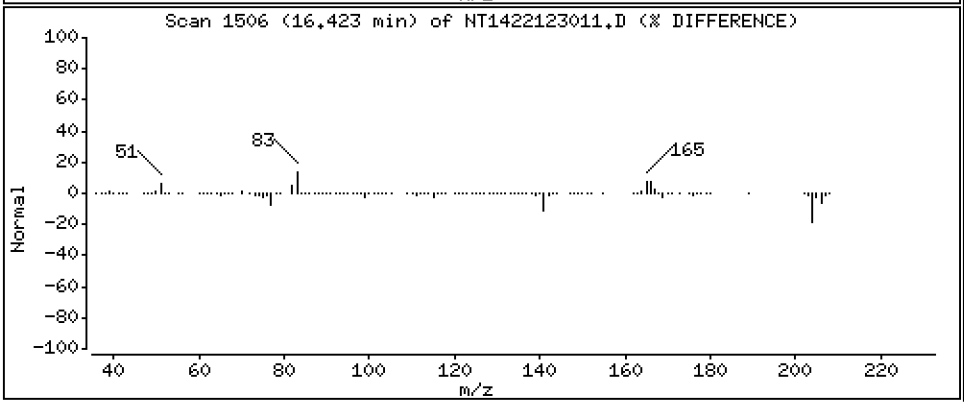
51 4-Chlorophenyl-phenylether

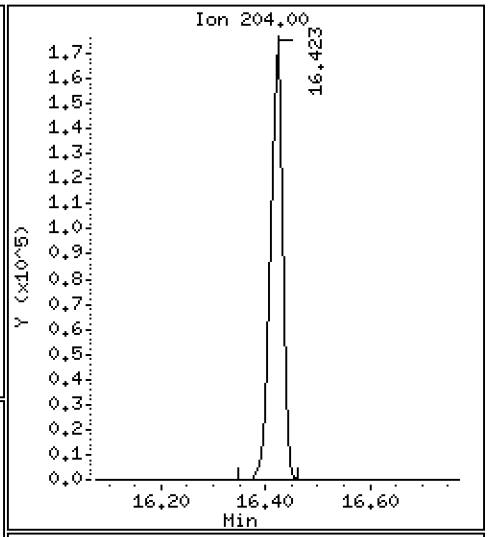
Concentration: 5.094 ug/mL

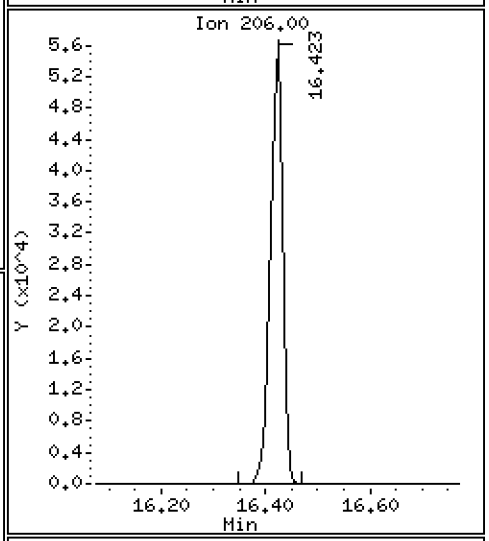


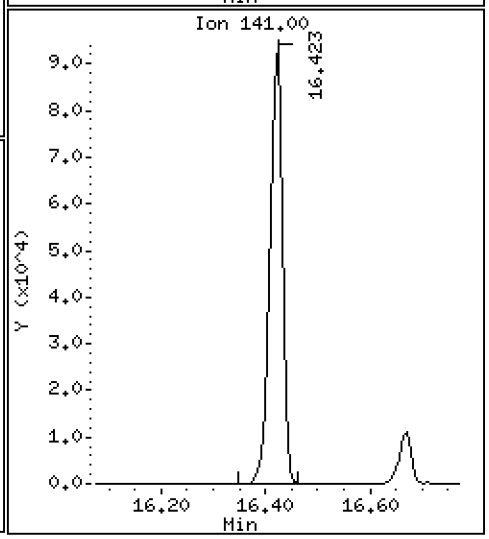












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

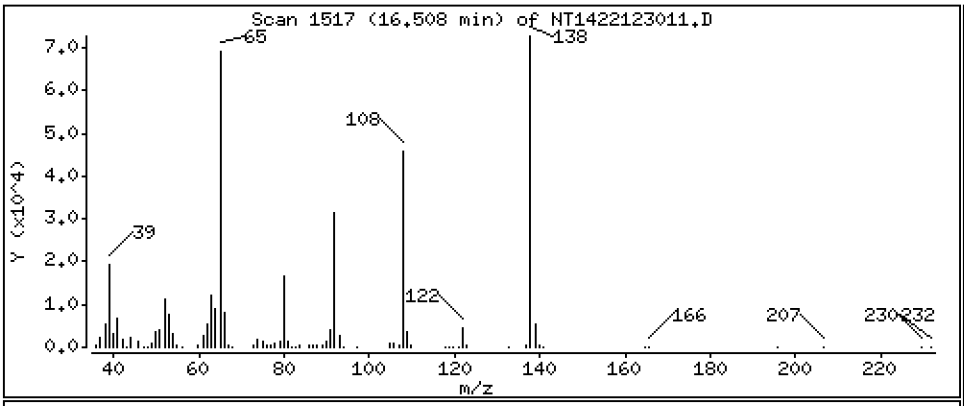
Operator: VTS

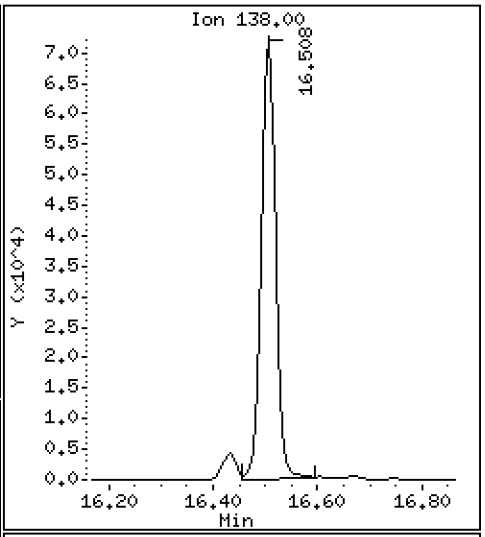
Column phase: ZB-5msi

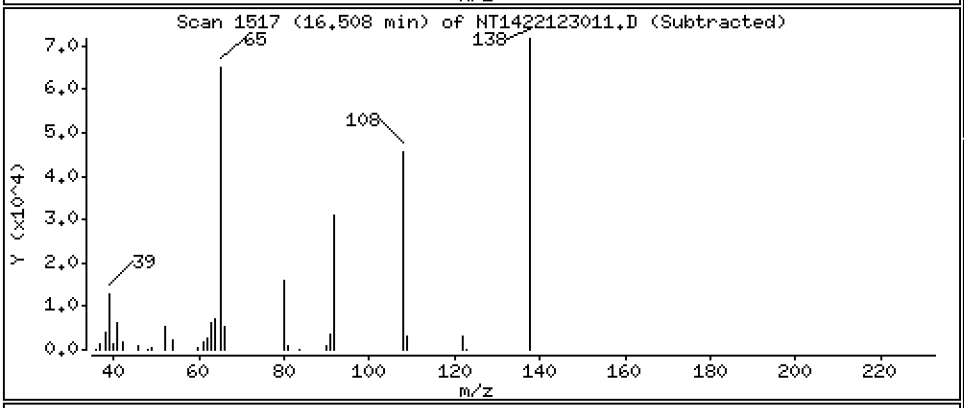
Column diameter: 0.25

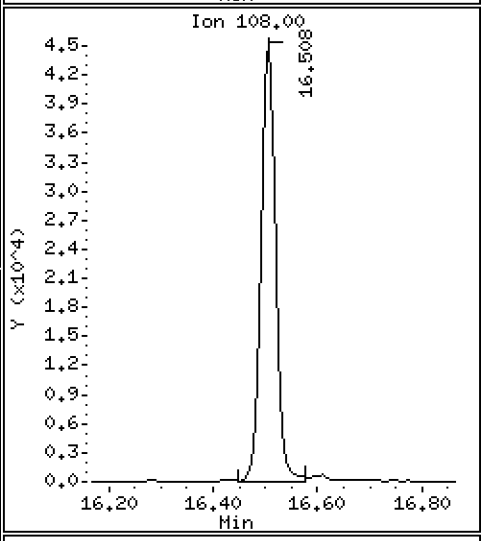
52 4-Nitroaniline

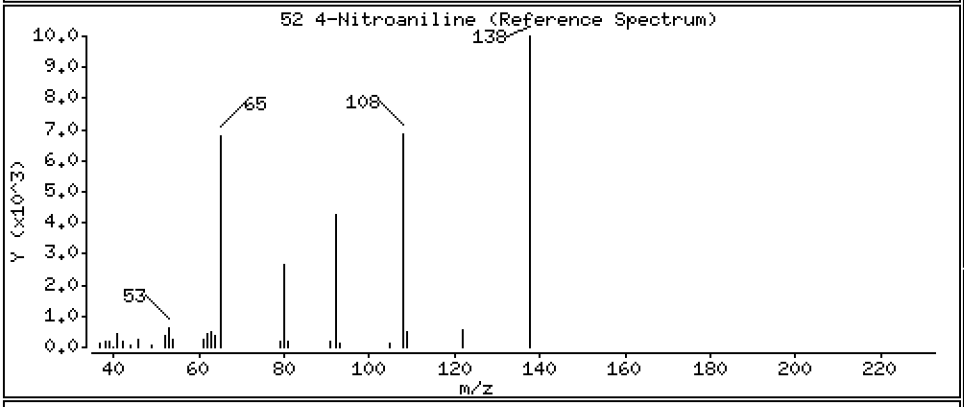
Concentration: 4.733 ug/mL

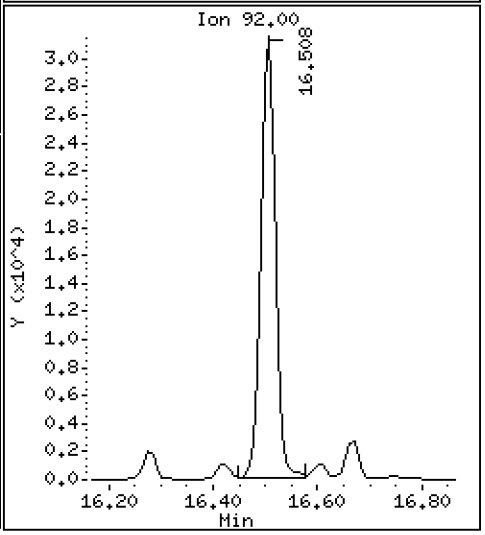


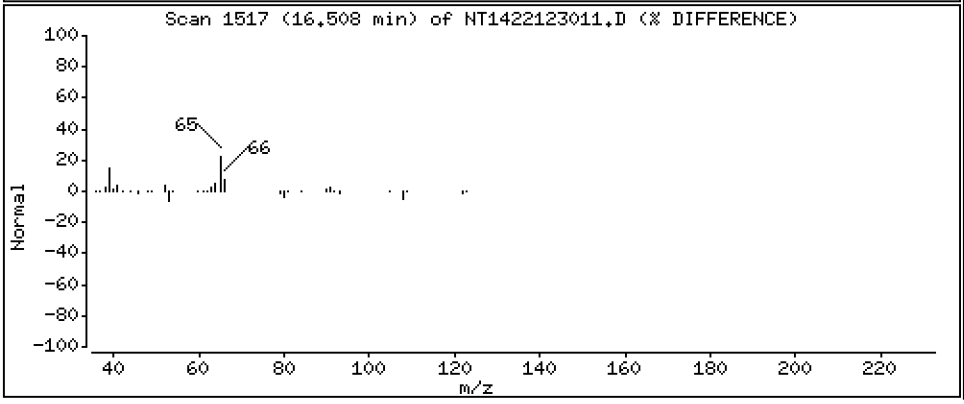












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

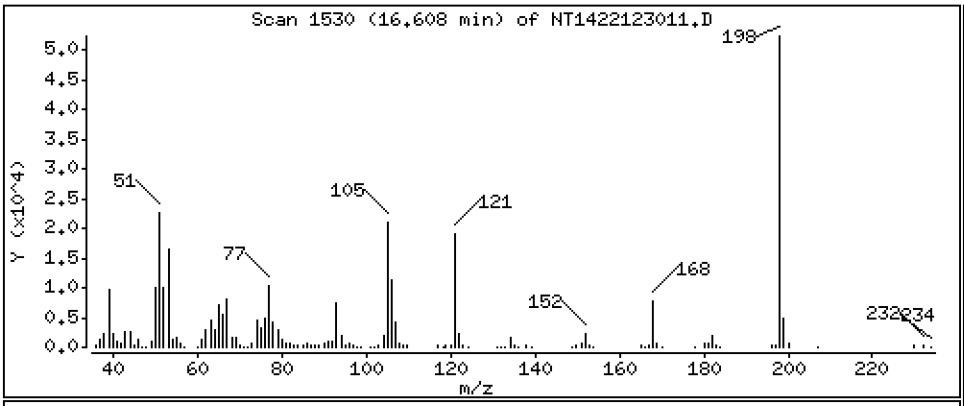
Operator: VTS

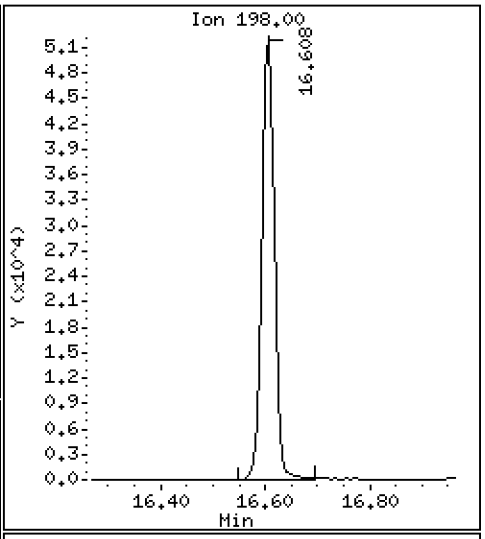
Column phase: ZB-5msi

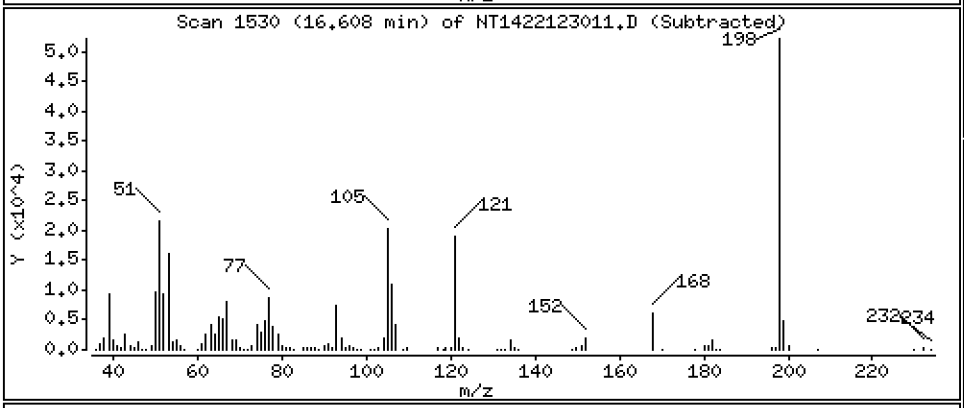
Column diameter: 0.25

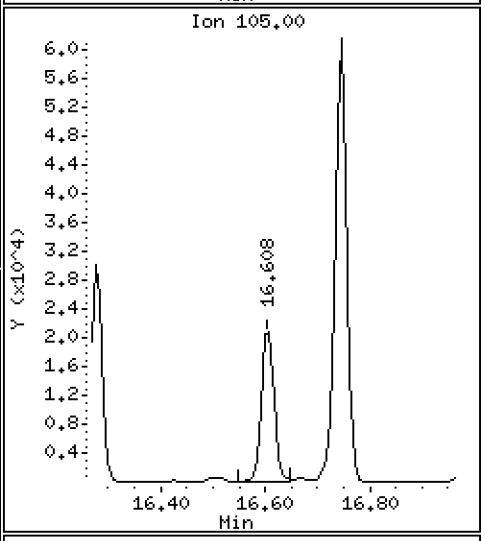
53 4,6-Dinitro-2-methylphenol

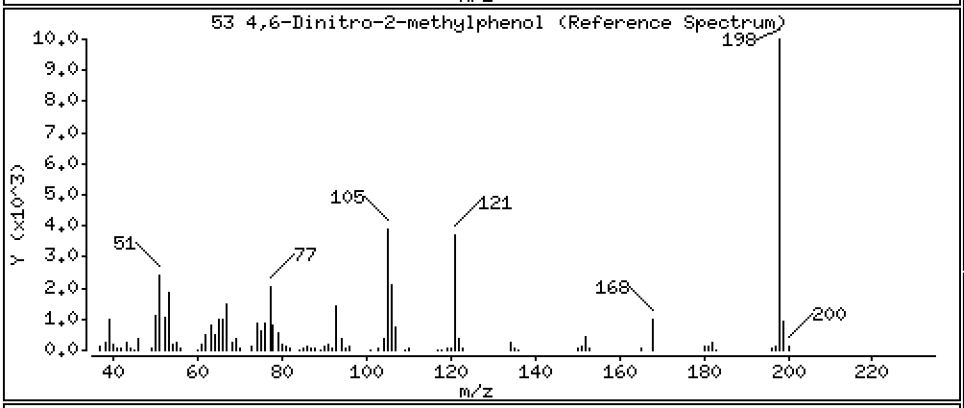
Concentration: 4.082 ug/mL

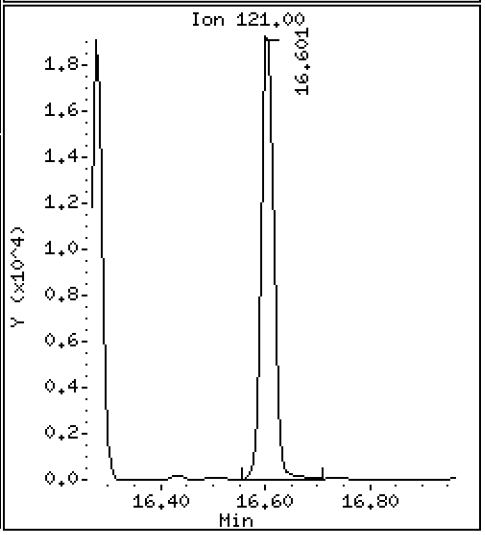


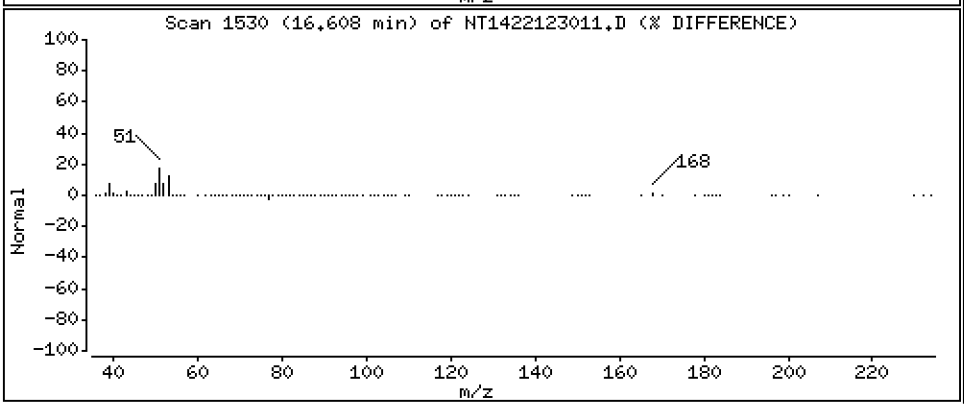












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

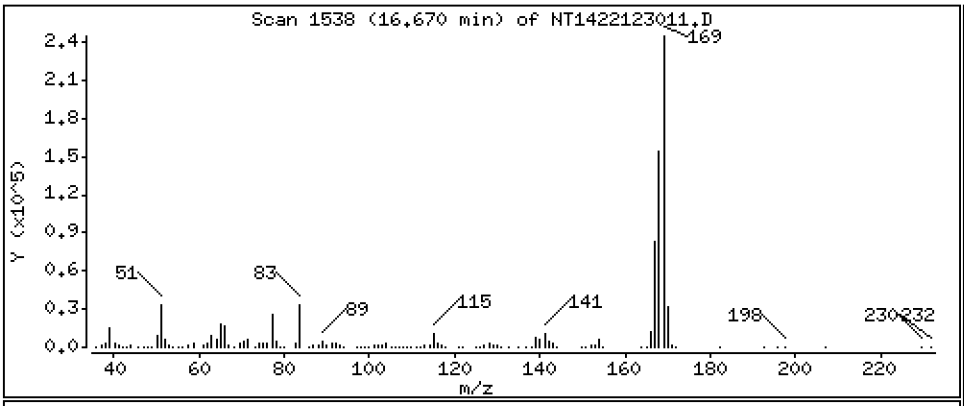
Operator: VTS

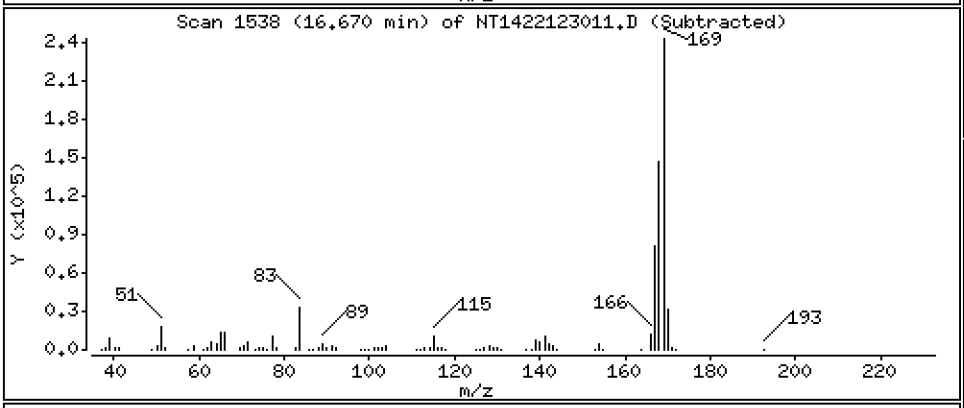
Column phase: ZB-5msi

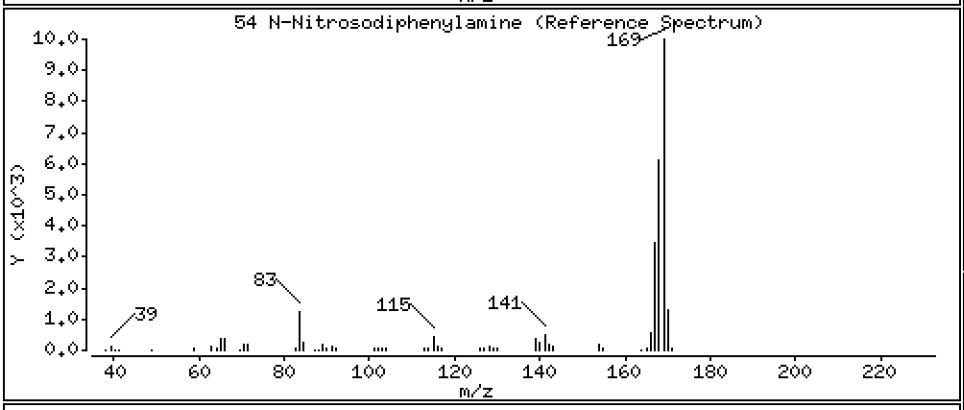
Column diameter: 0.25

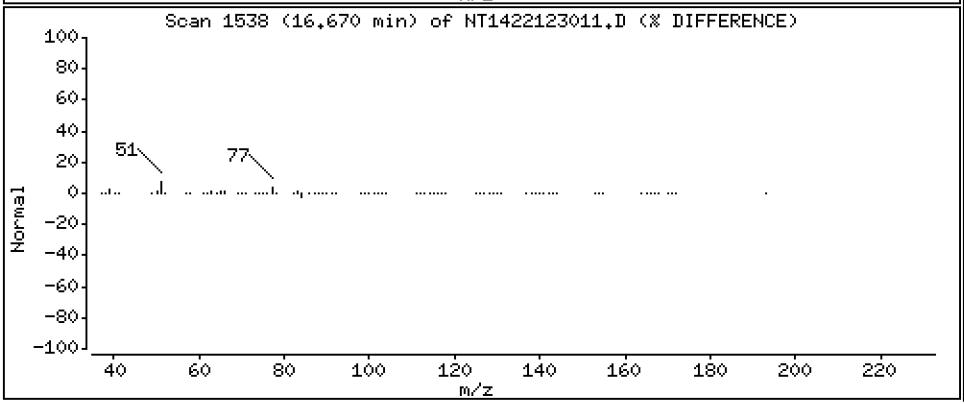
54 N-Nitrosodiphenylamine

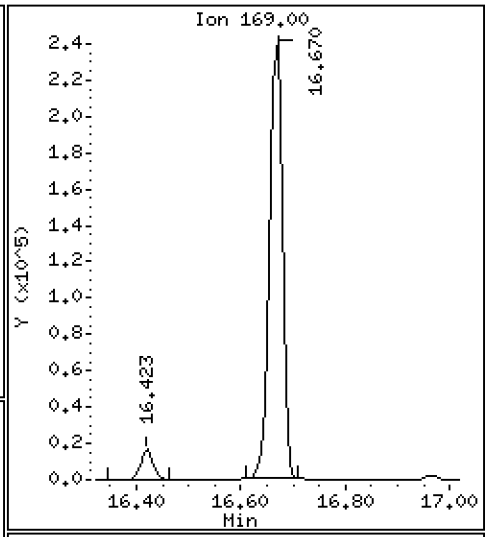
Concentration: 4.775 ug/mL

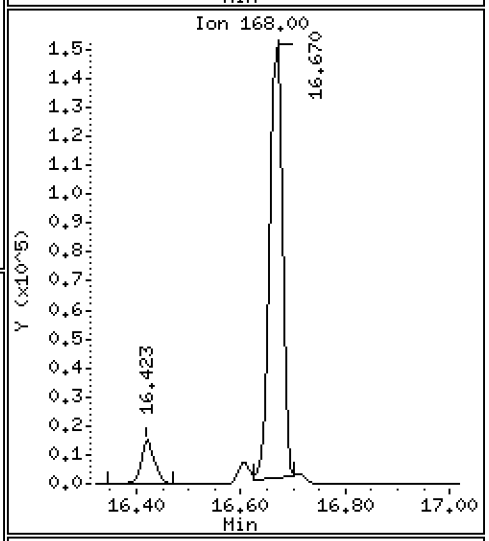


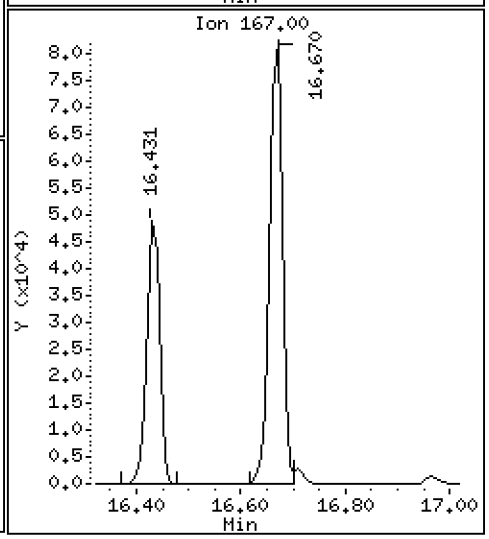












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

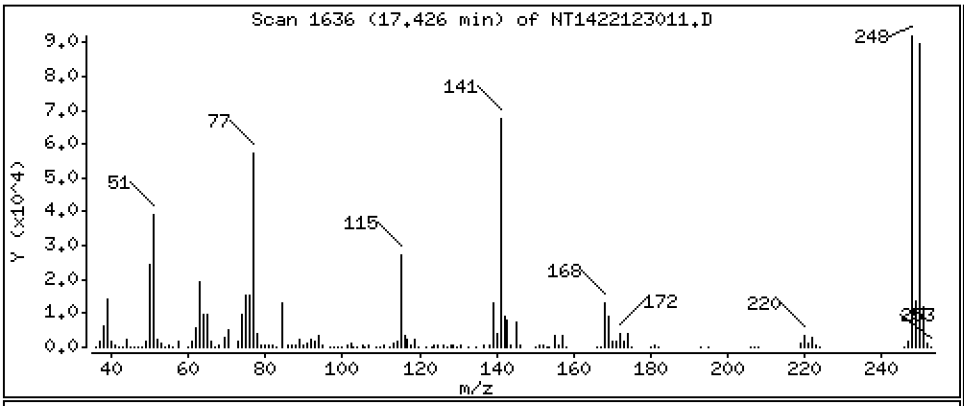
Operator: VTS

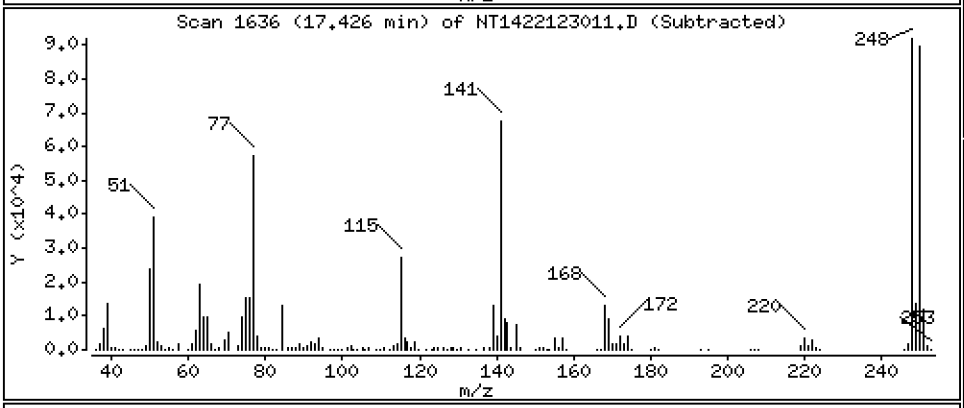
Column phase: ZB-5msi

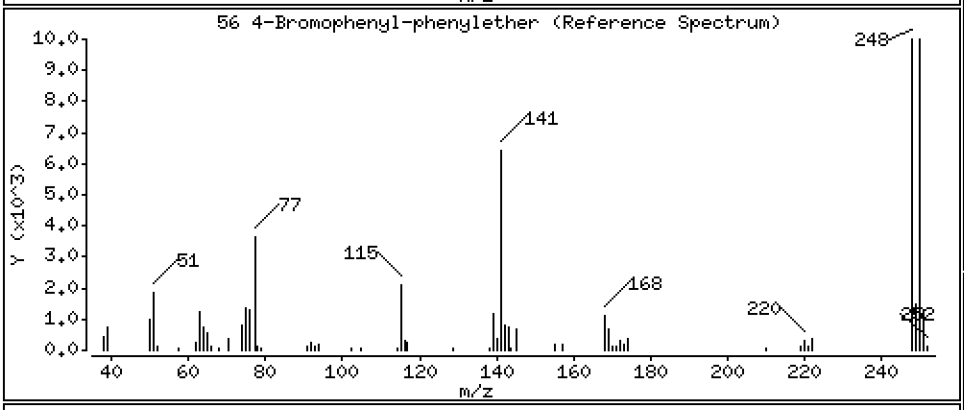
Column diameter: 0.25

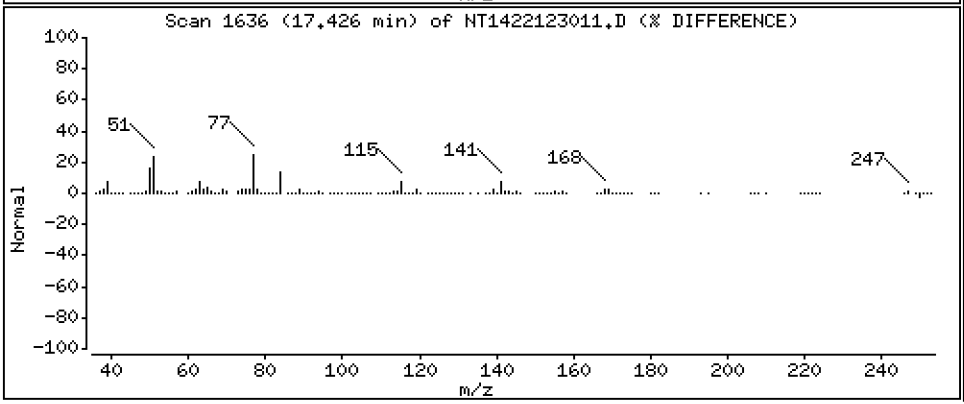
56 4-Bromophenyl-phenylether

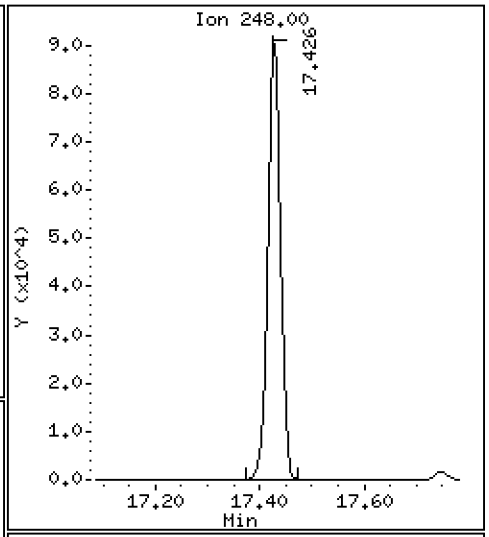
Concentration: 4.938 ug/mL

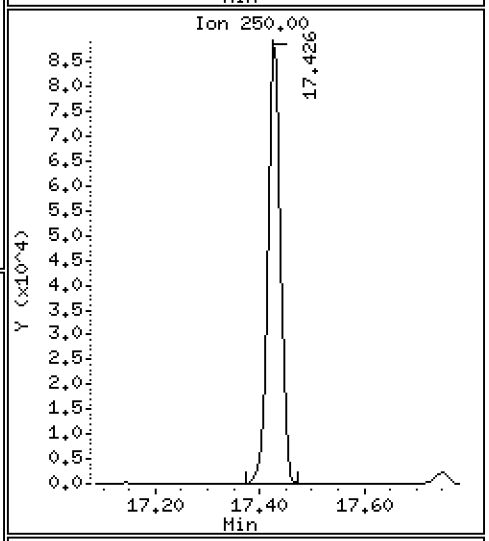


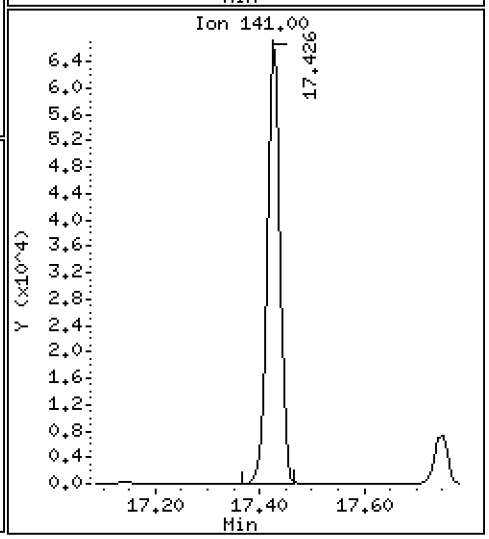












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

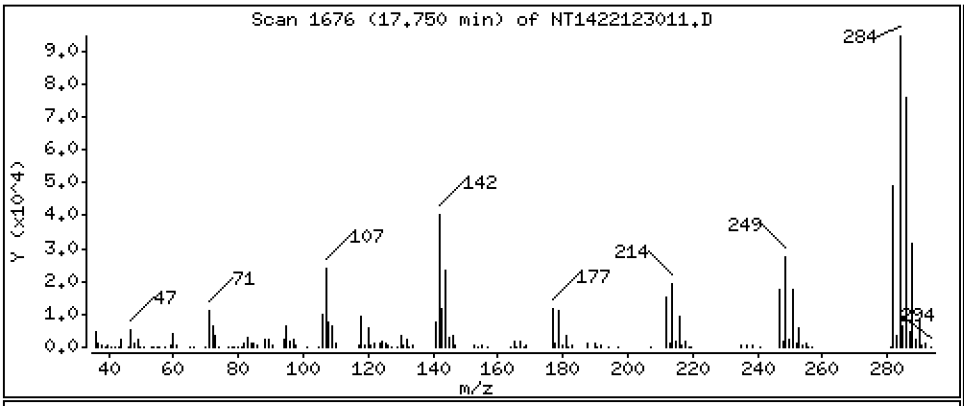
Operator: VTS

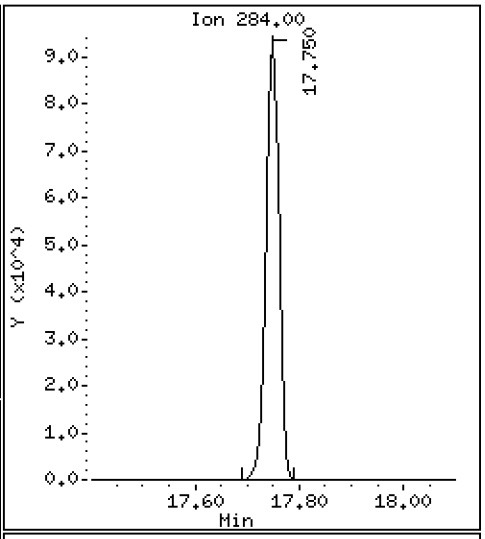
Column phase: ZB-5msi

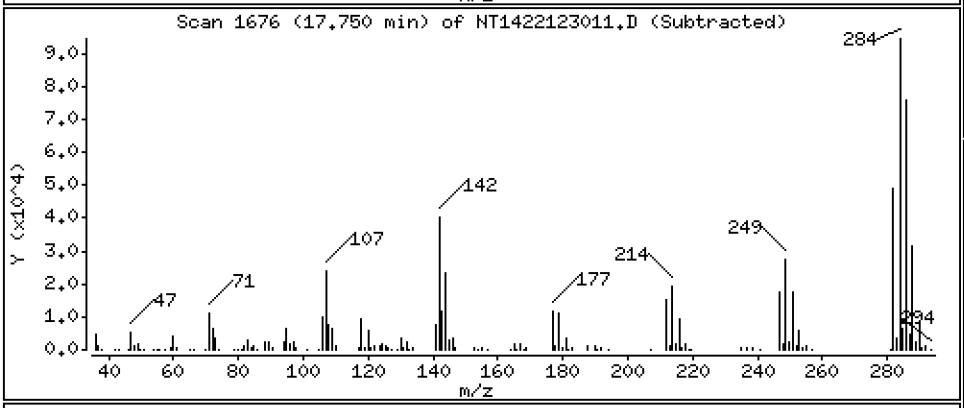
Column diameter: 0.25

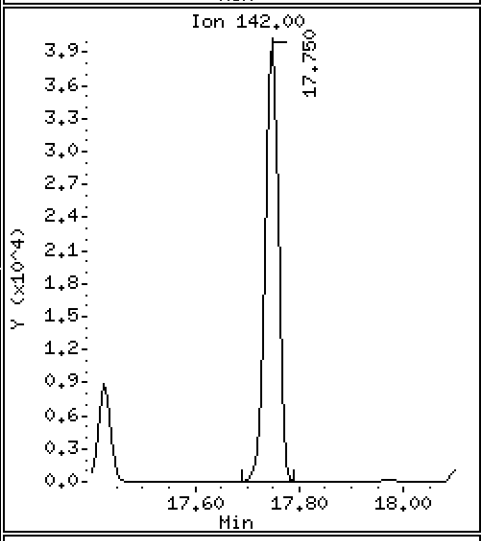
57 Hexachlorobenzene

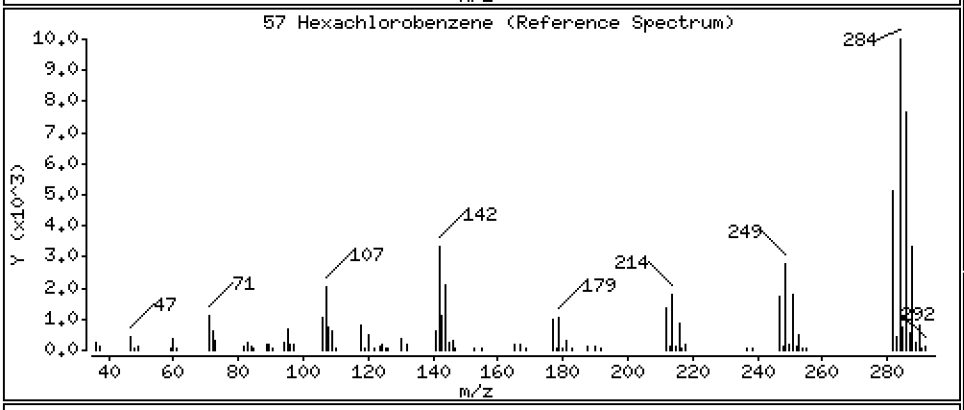
Concentration: 4.553 ug/mL

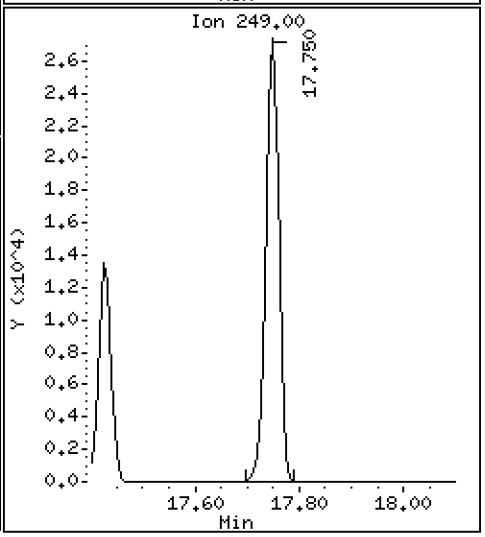


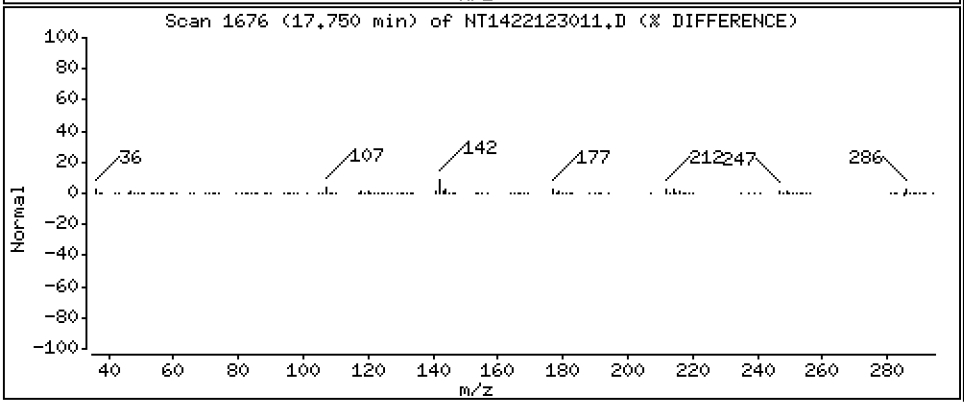












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

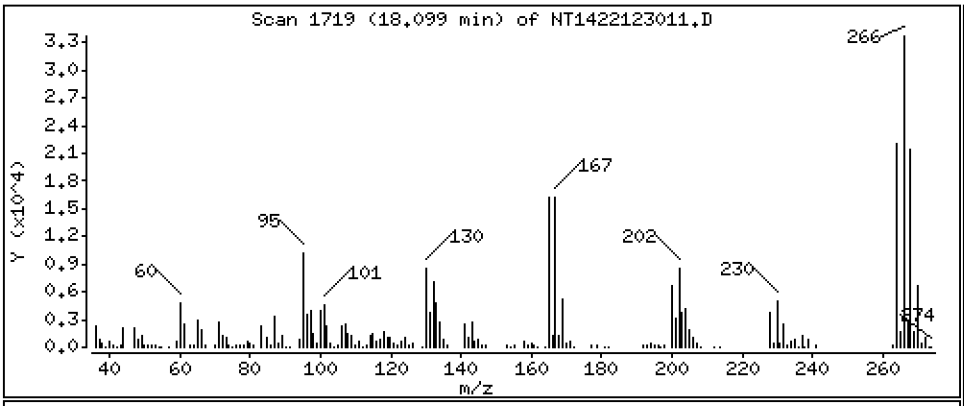
Operator: VTS

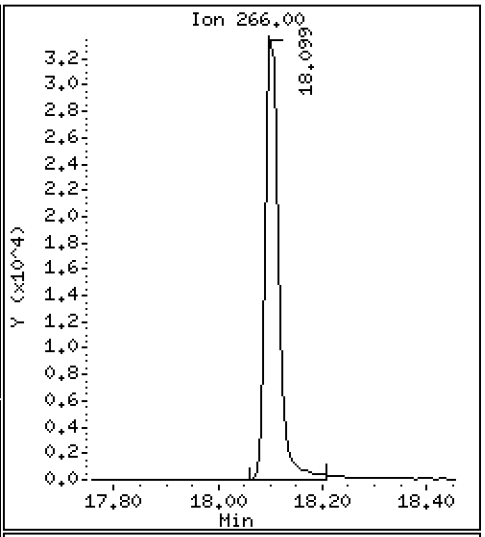
Column phase: ZB-5msi

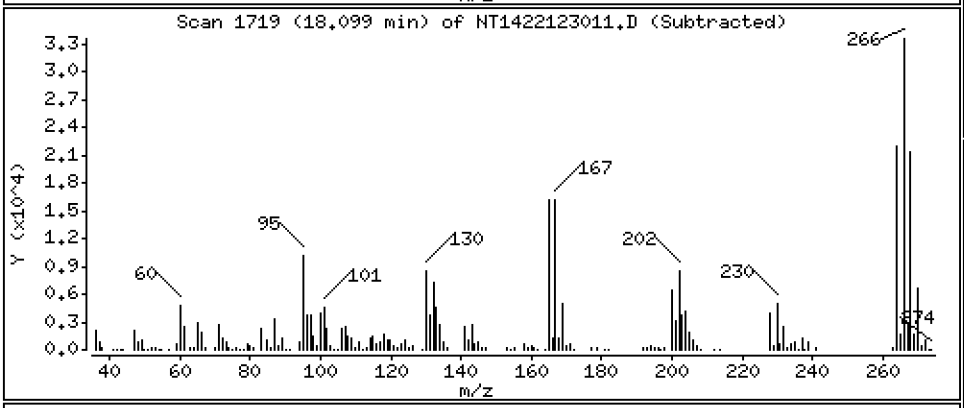
Column diameter: 0.25

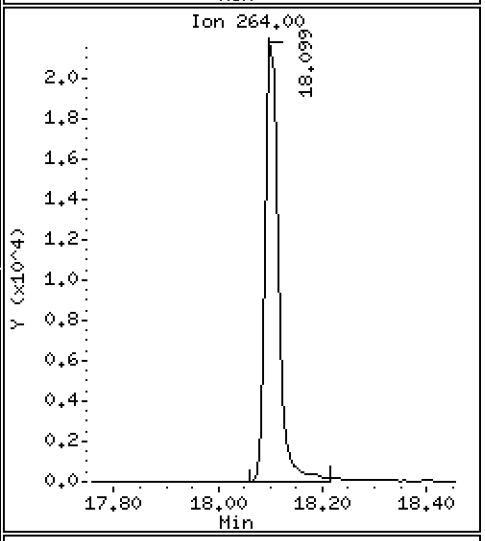
58 Pentachlorophenol

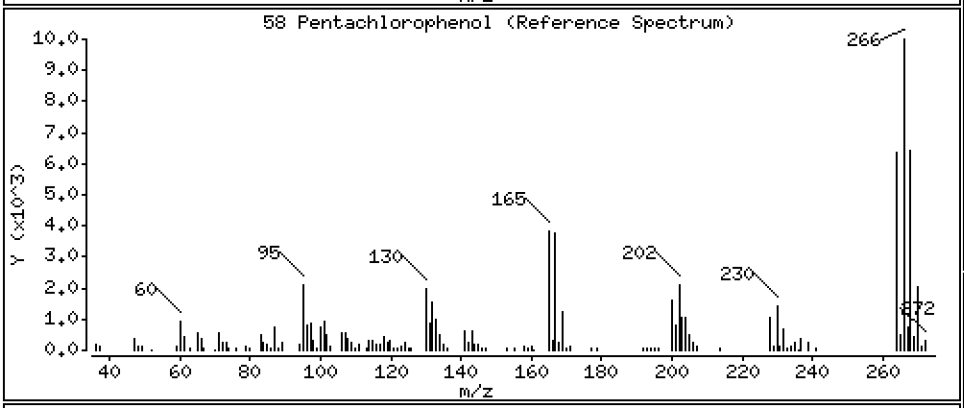
Concentration: 3.796 ug/mL

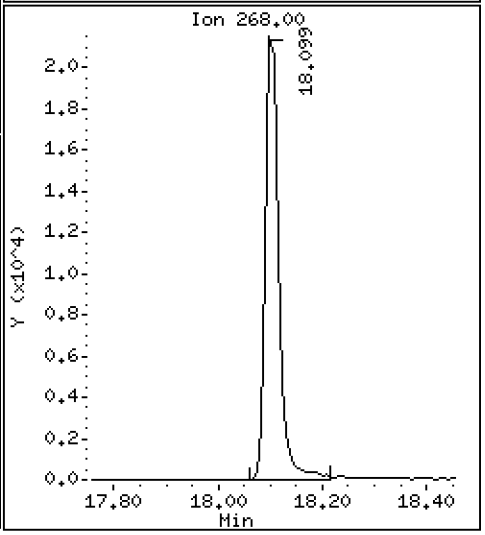


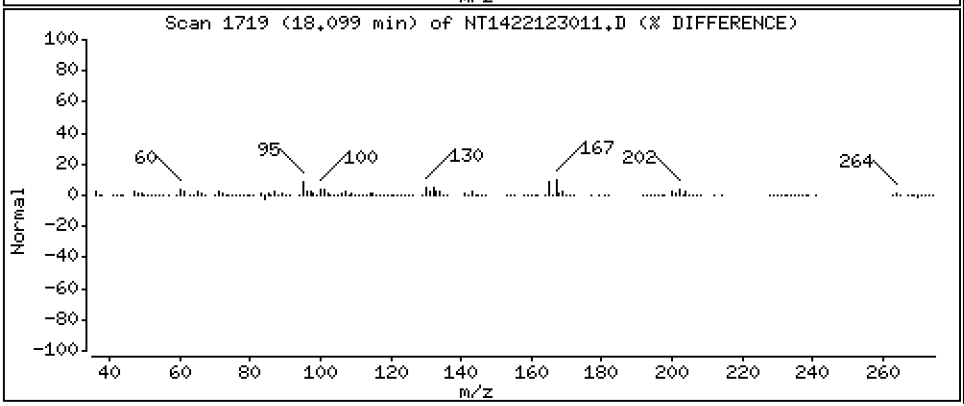












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

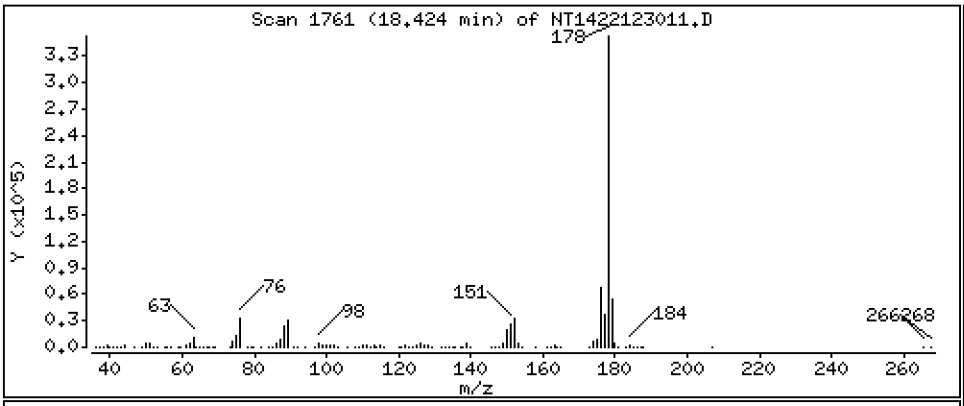
Operator: VTS

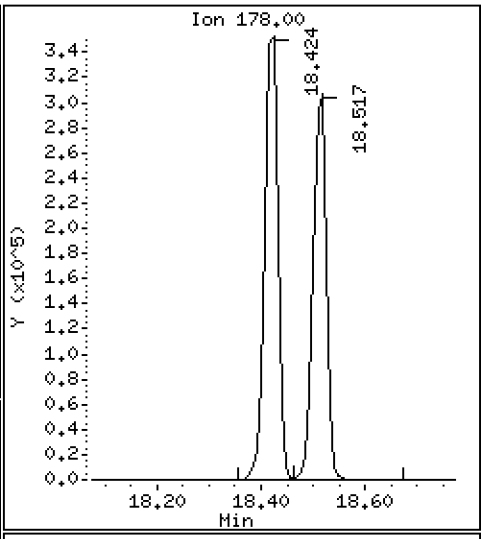
Column phase: ZB-5msi

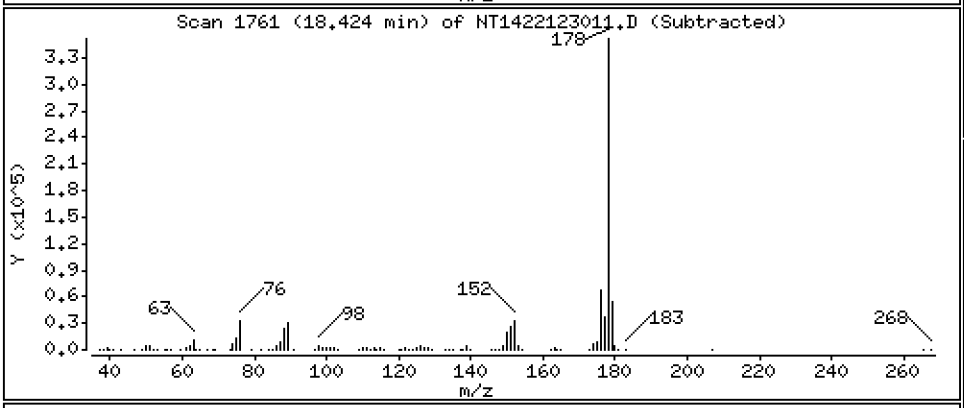
Column diameter: 0.25

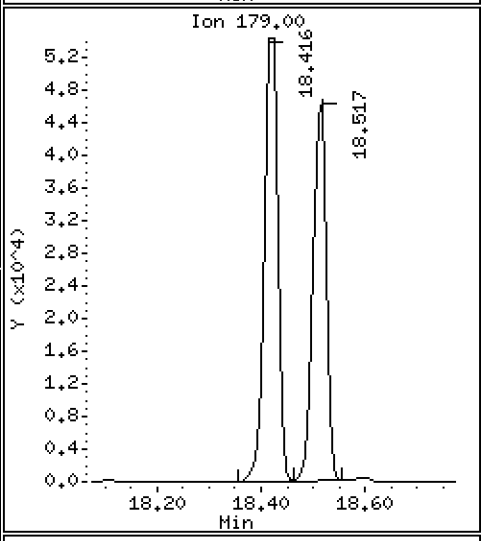
60 Phenanthrene

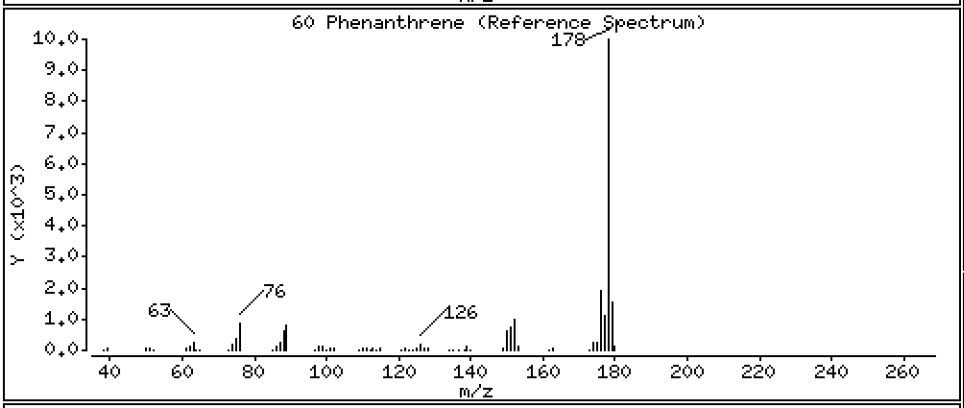
Concentration: 4.767 ug/mL

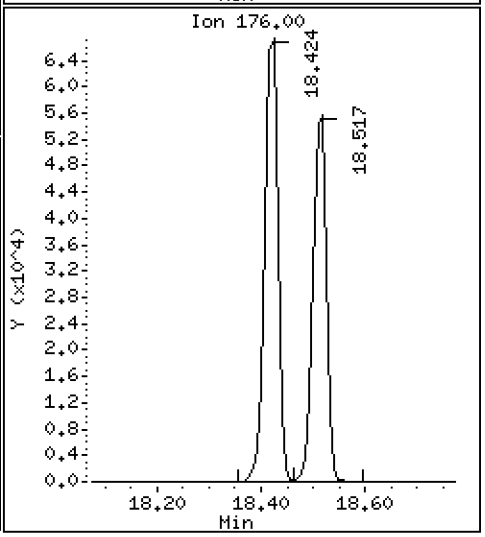


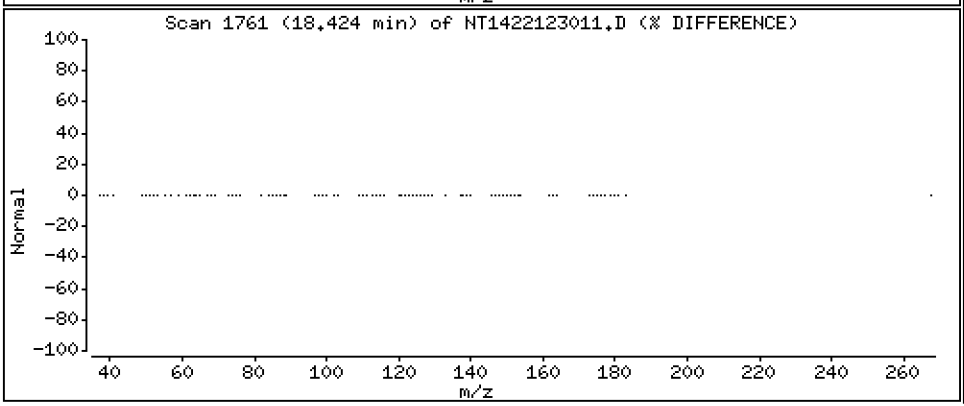












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

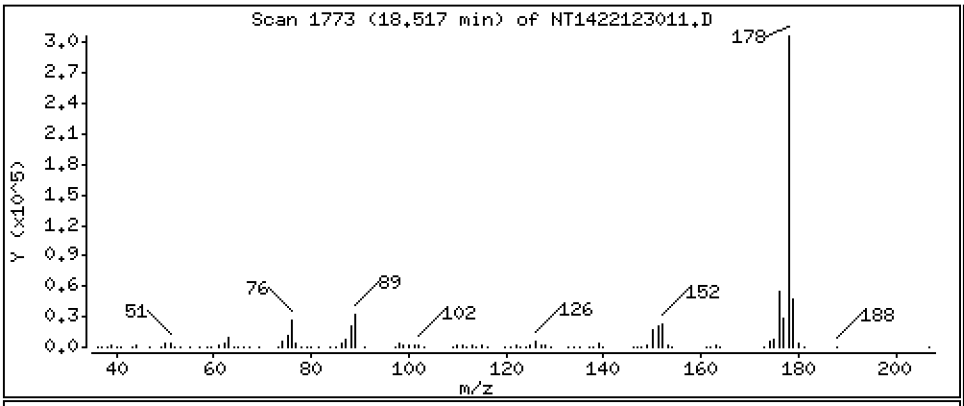
Operator: VTS

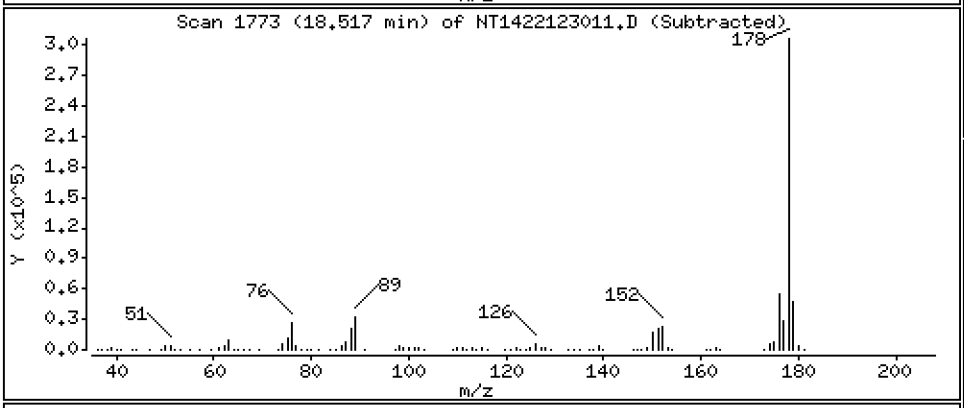
Column phase: ZB-5msi

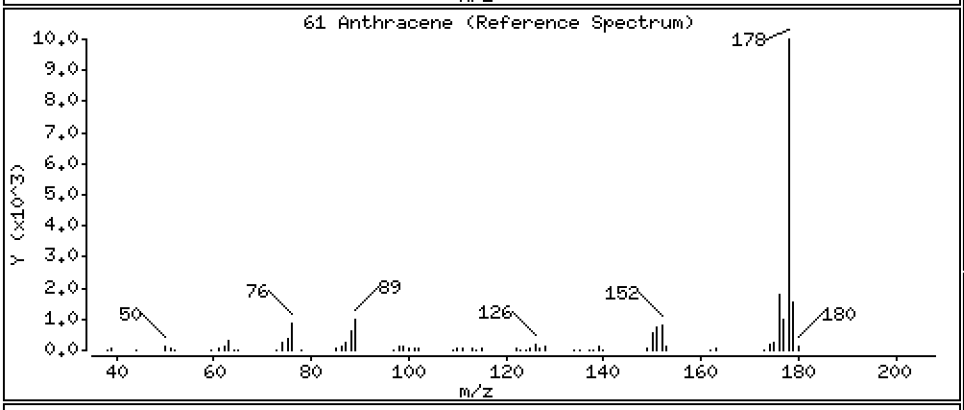
Column diameter: 0.25

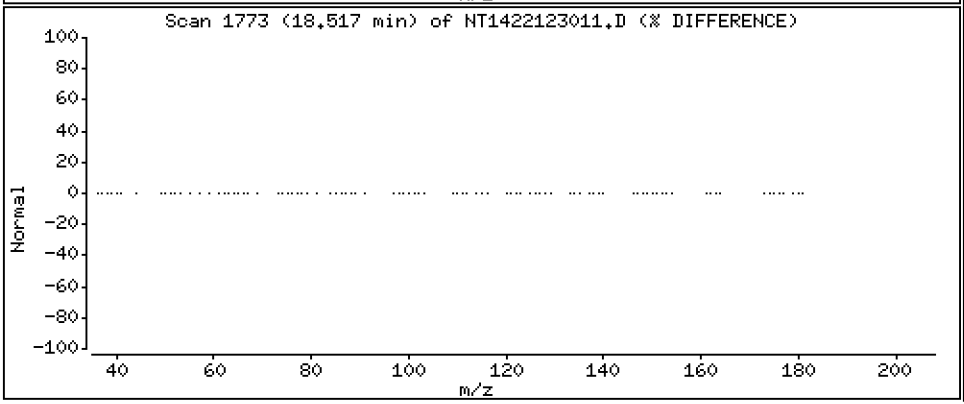
61 Anthracene

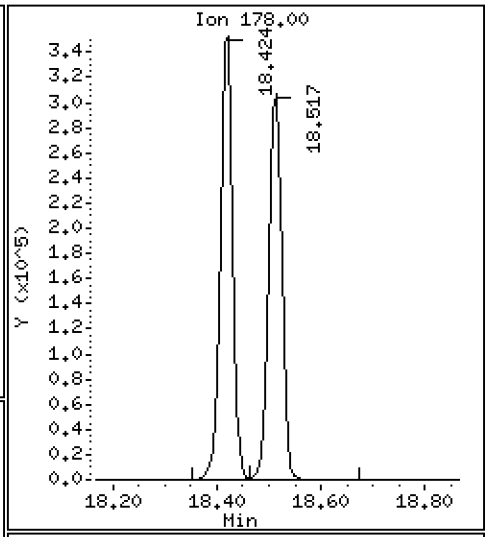
Concentration: 4.373 ug/mL

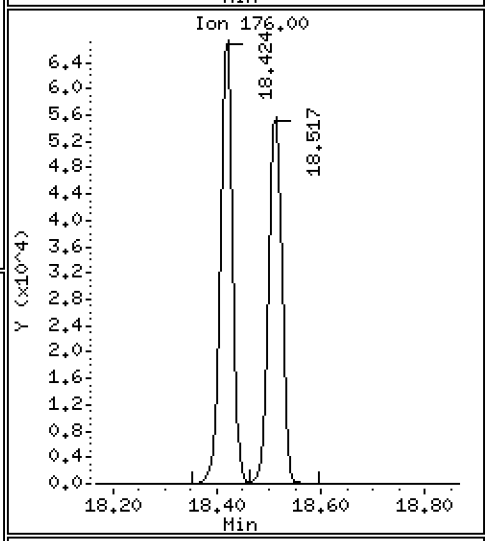


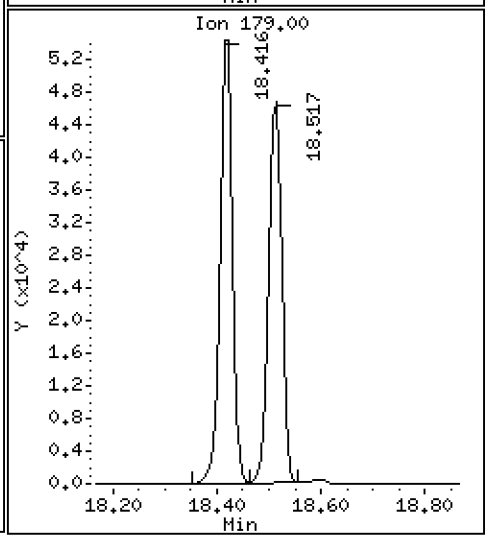












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

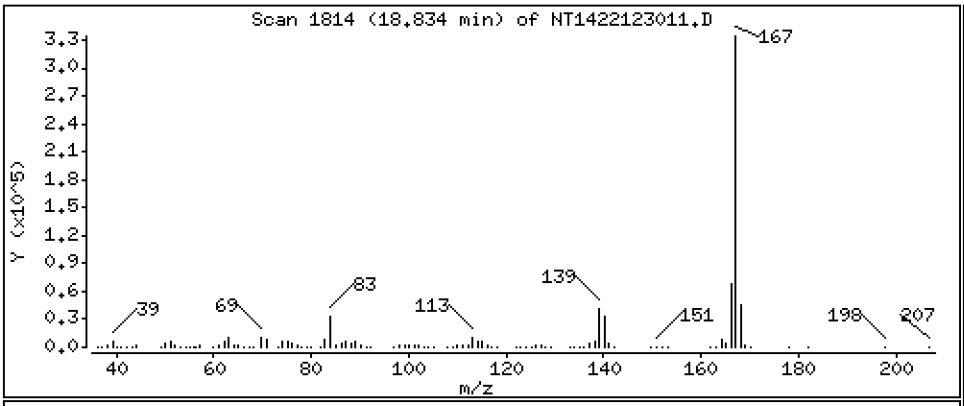
Operator: VTS

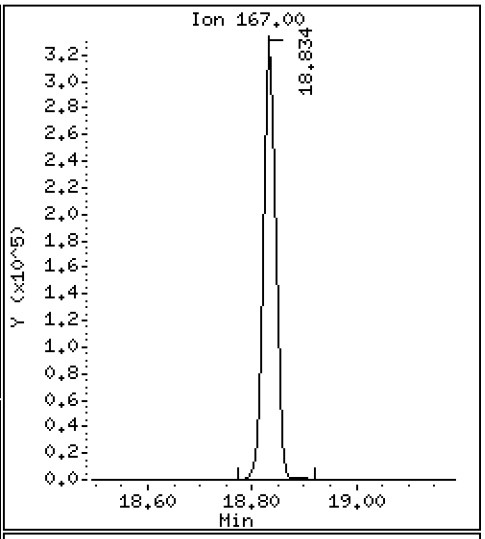
Column phase: ZB-5msi

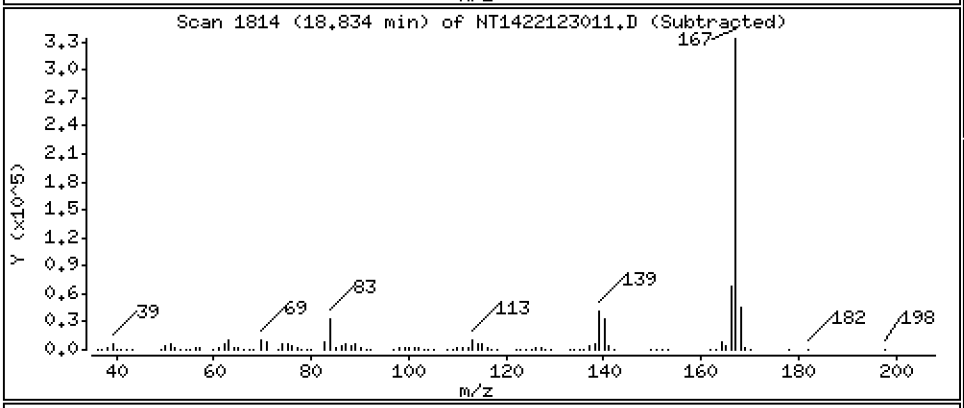
Column diameter: 0.25

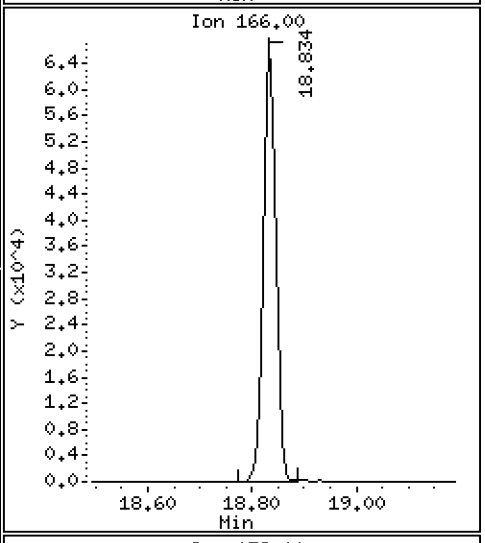
62 Carbazole

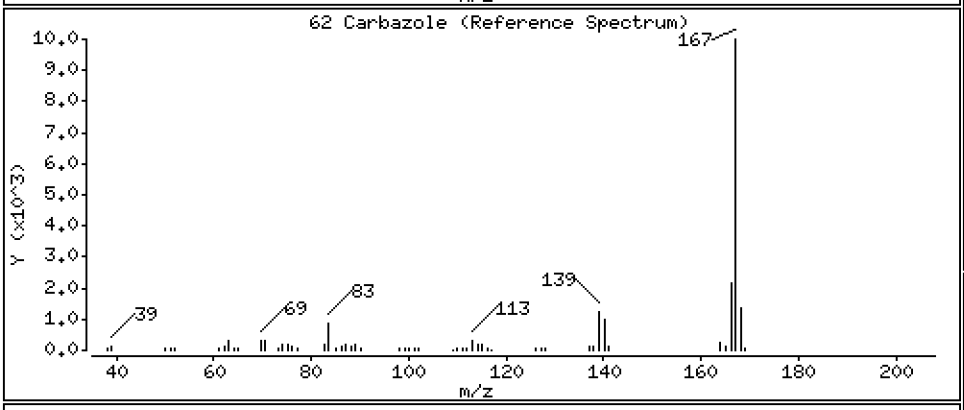
Concentration: 4.620 ug/mL

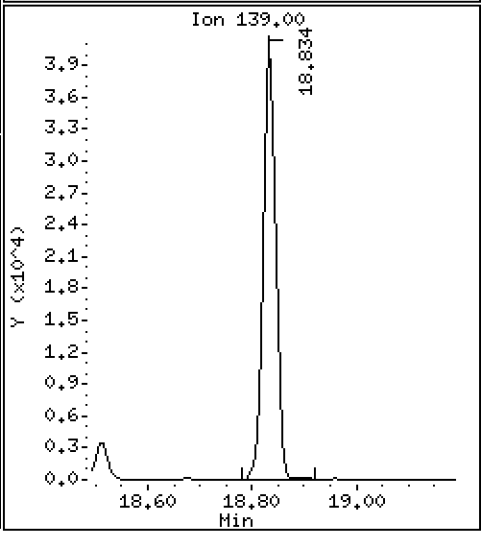


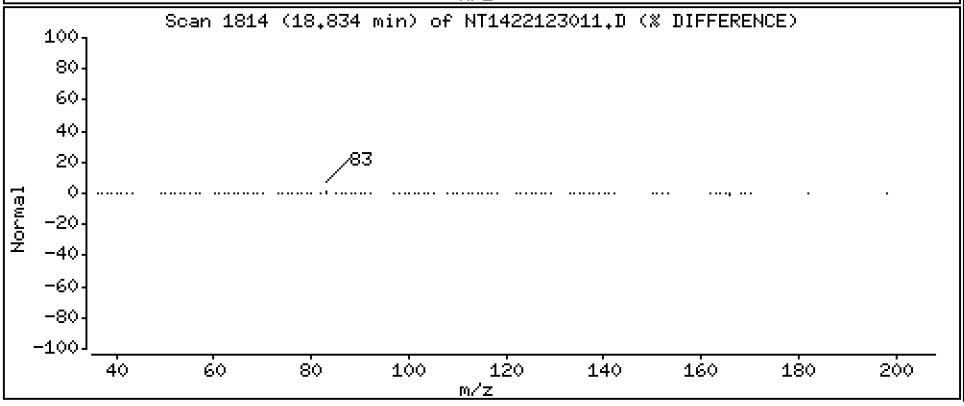












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

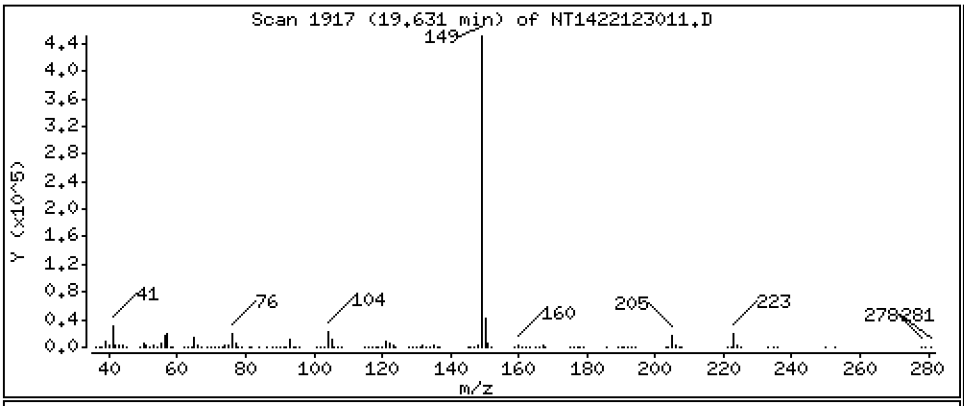
Operator: VTS

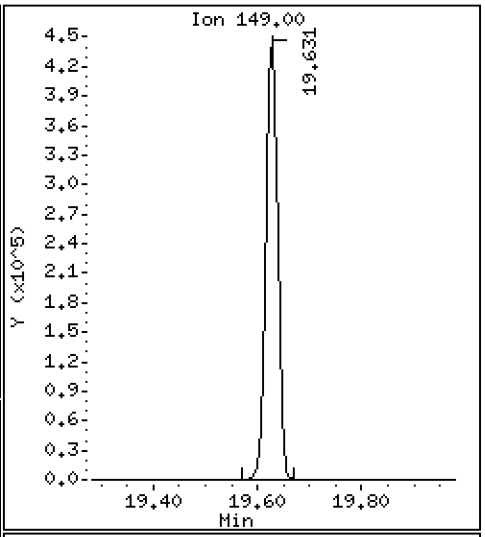
Column phase: ZB-5msi

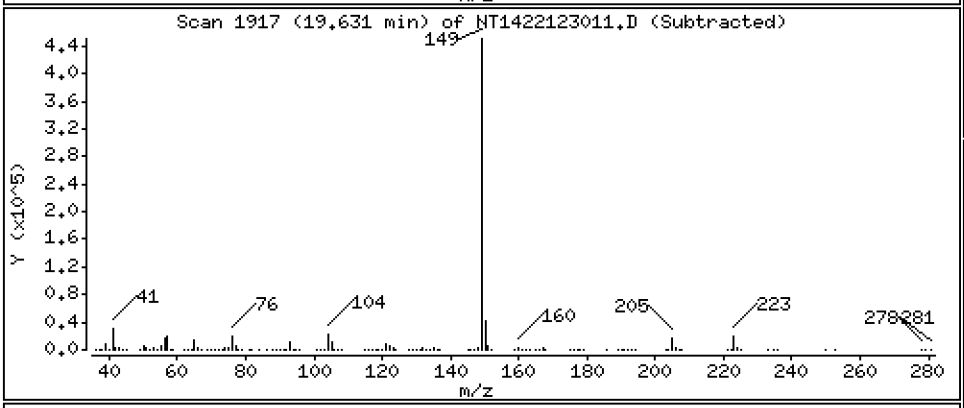
Column diameter: 0.25

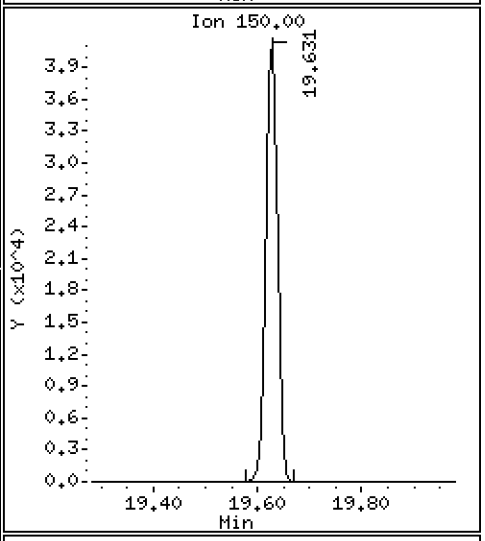
63 Di-n-butylphthalate

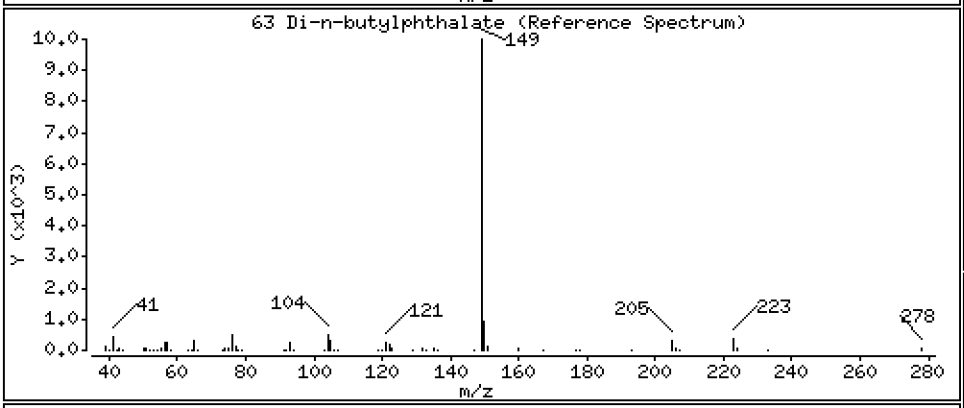
Concentration: 4.931 ug/mL

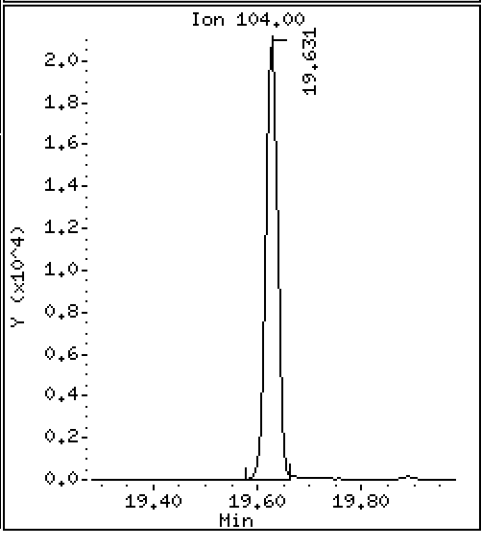


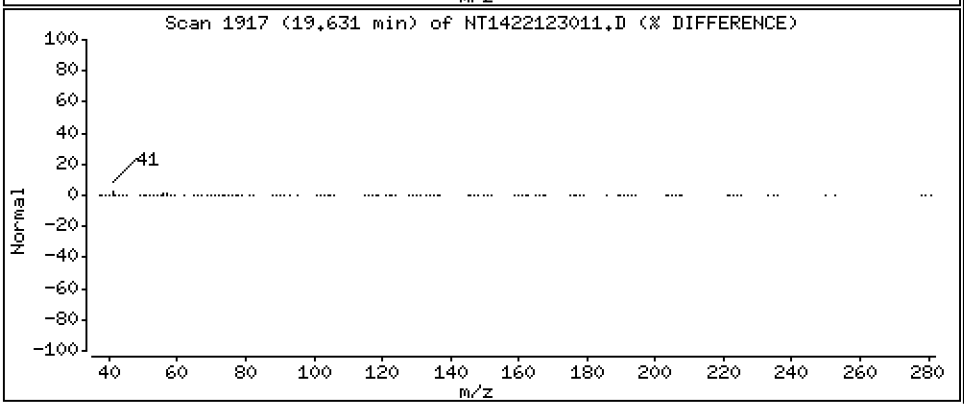












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

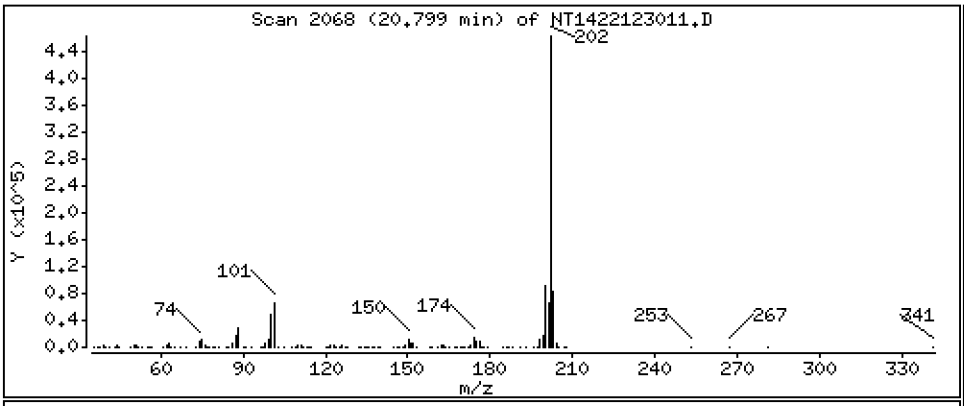
Operator: VTS

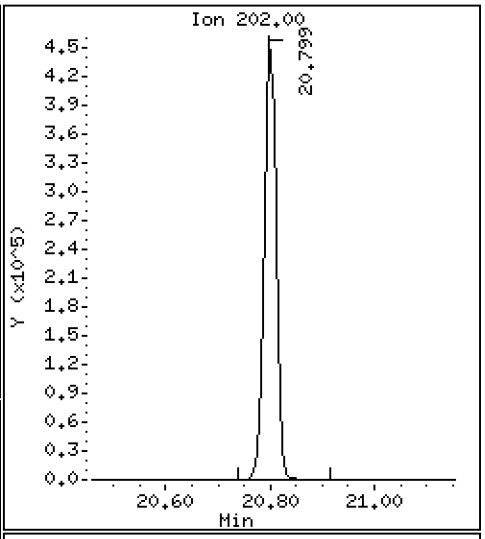
Column phase: ZB-5msi

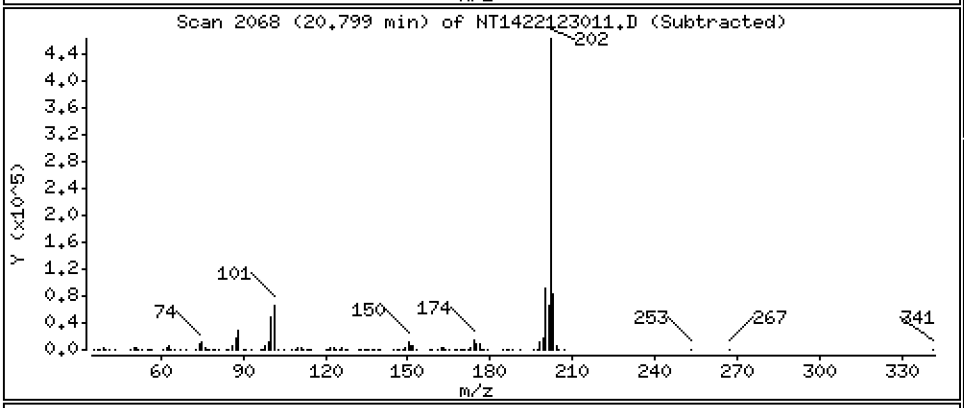
Column diameter: 0.25

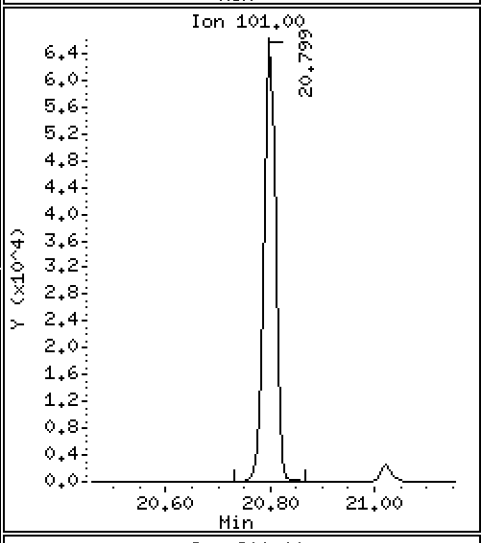
64 Fluoranthene

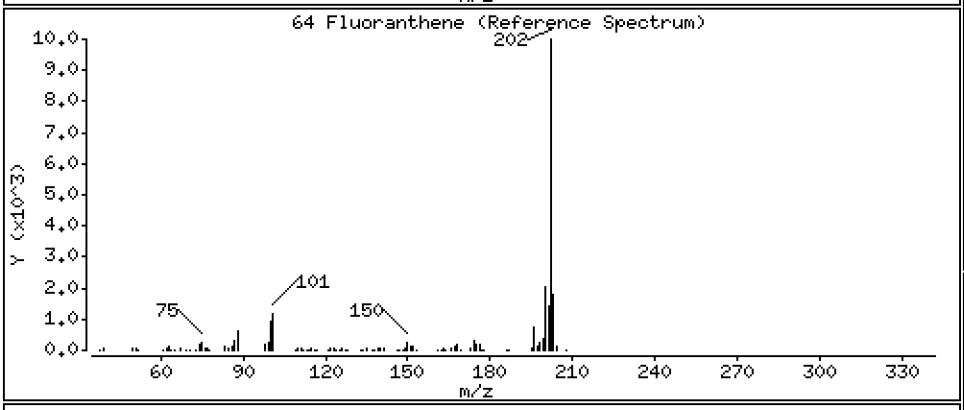
Concentration: 5.090 ug/mL

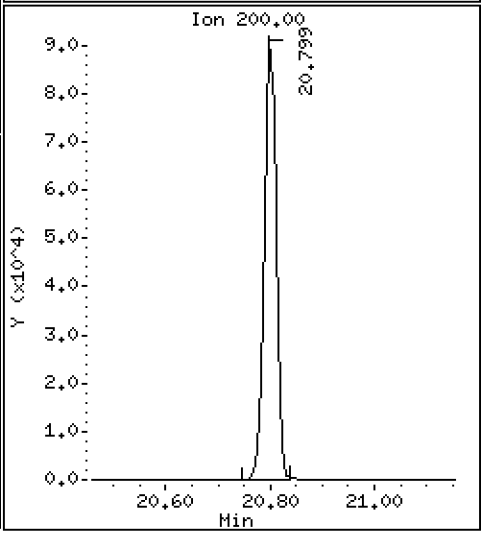


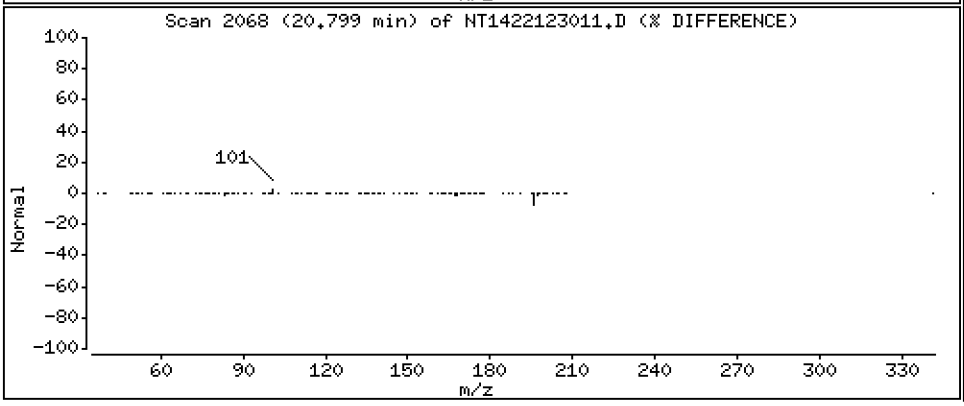












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

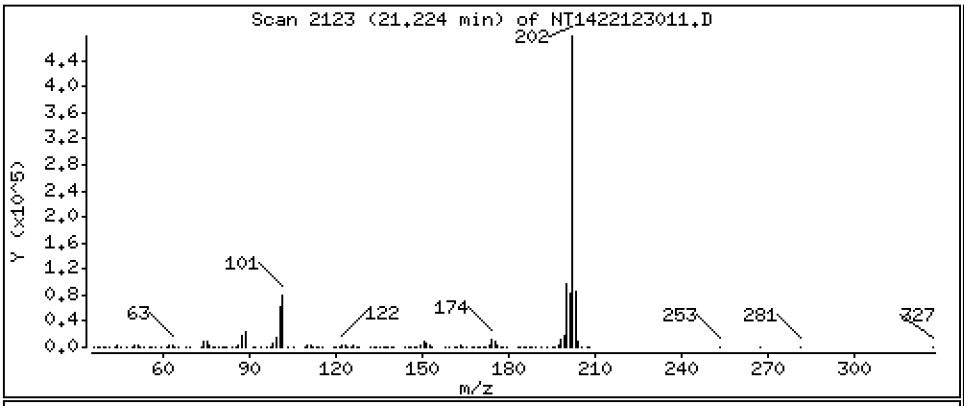
Operator: VTS

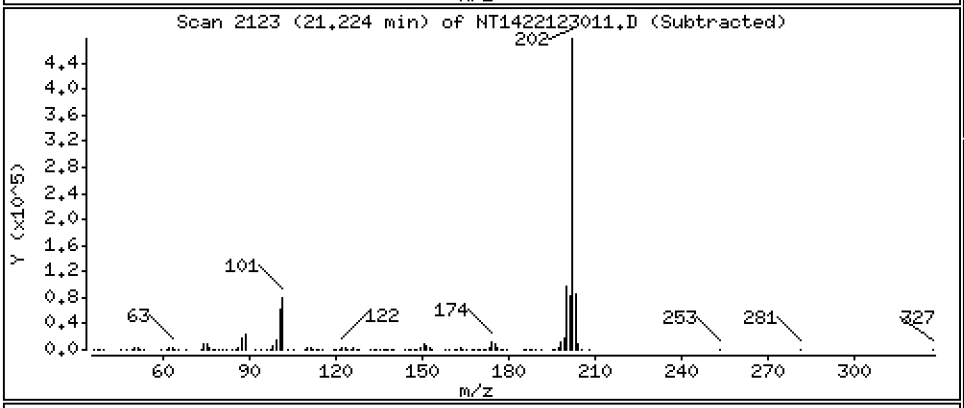
Column phase: ZB-5msi

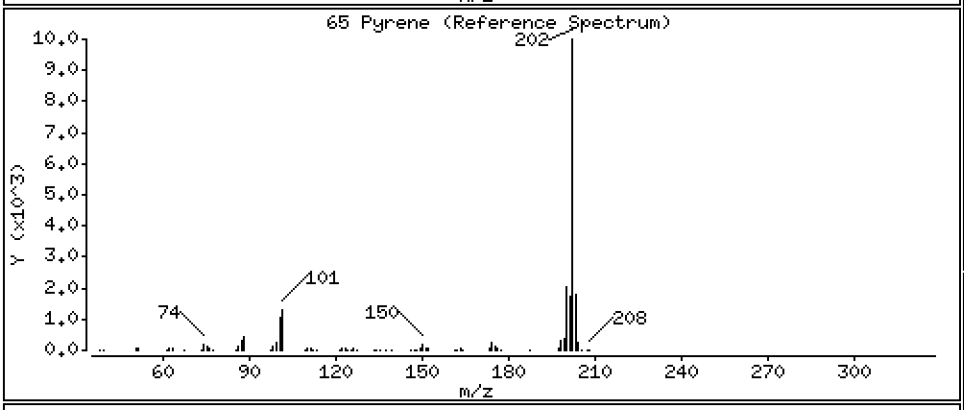
Column diameter: 0.25

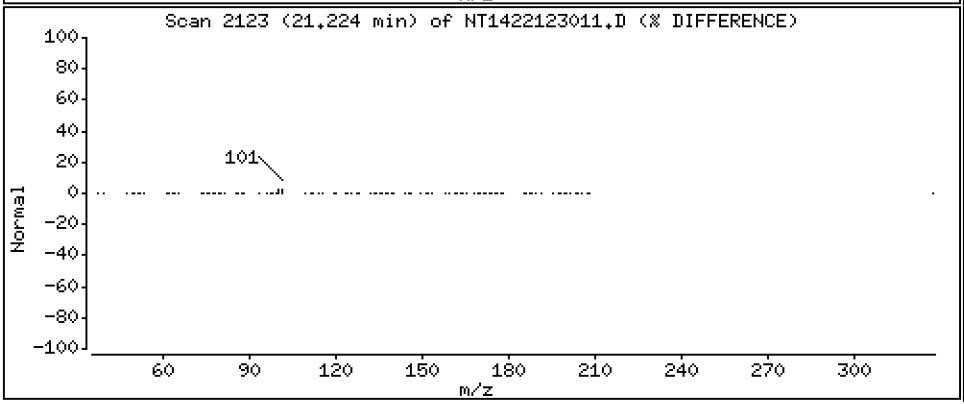
65 Pyrene

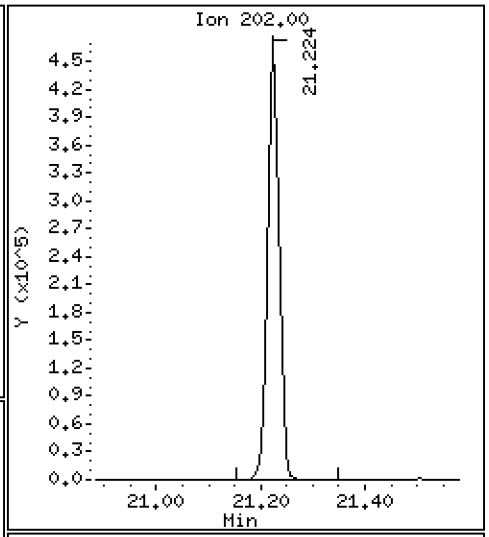
Concentration: 5.022 ug/mL

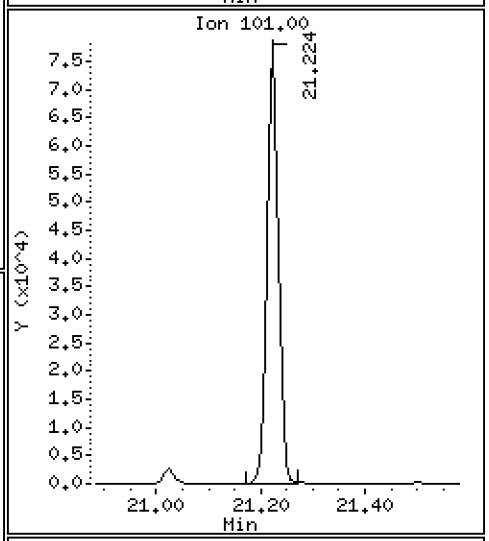


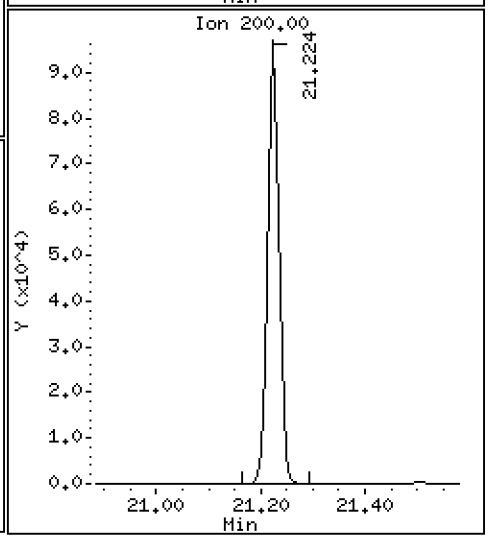












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

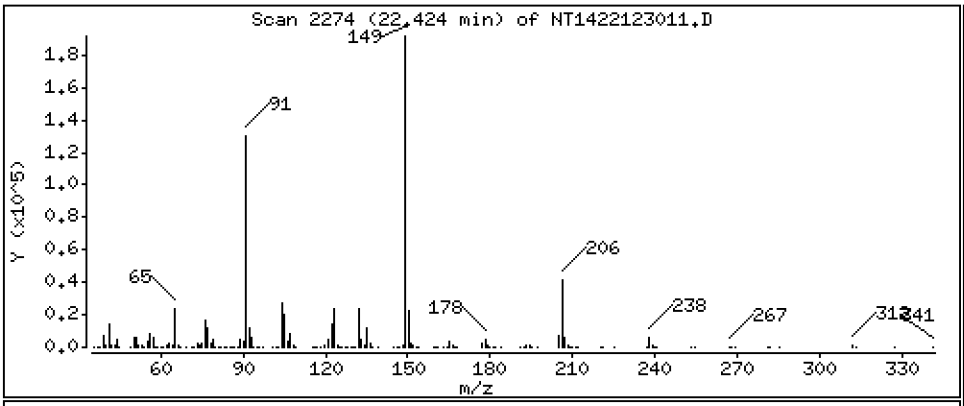
Operator: VTS

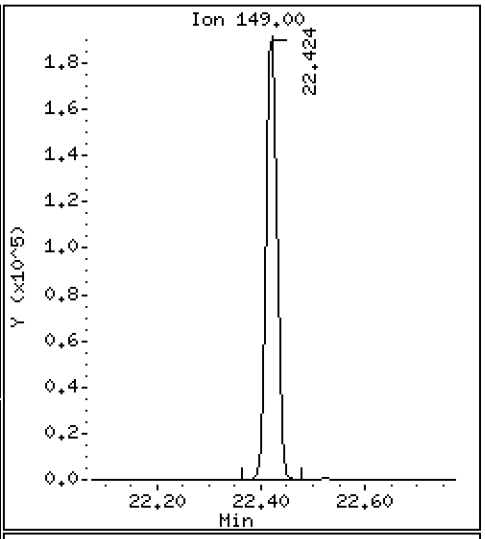
Column phase: ZB-5msi

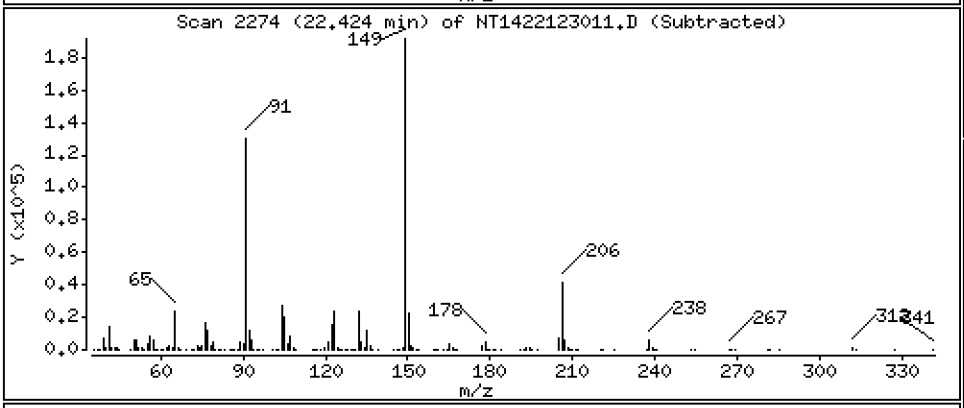
Column diameter: 0.25

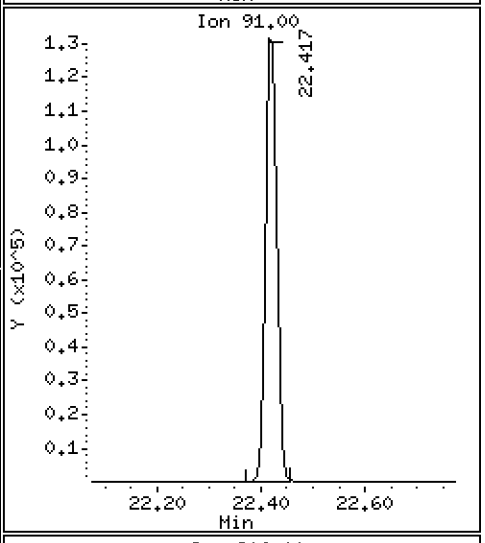
67 Butylbenzylphthalate

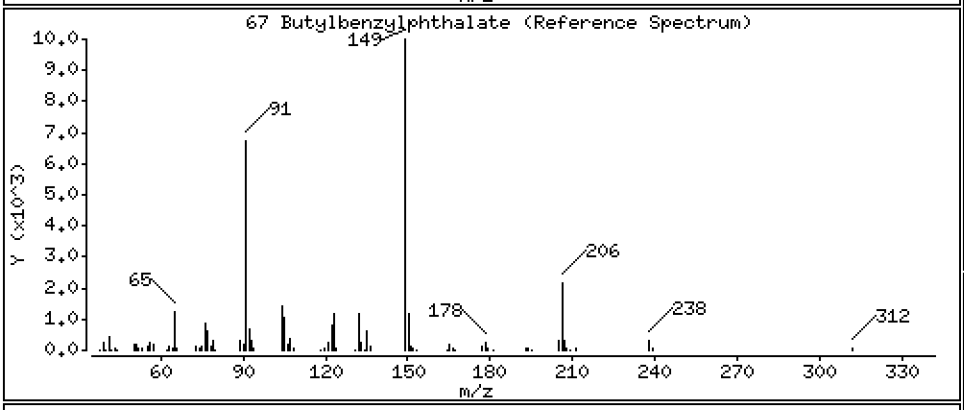
Concentration: 5.005 ug/mL

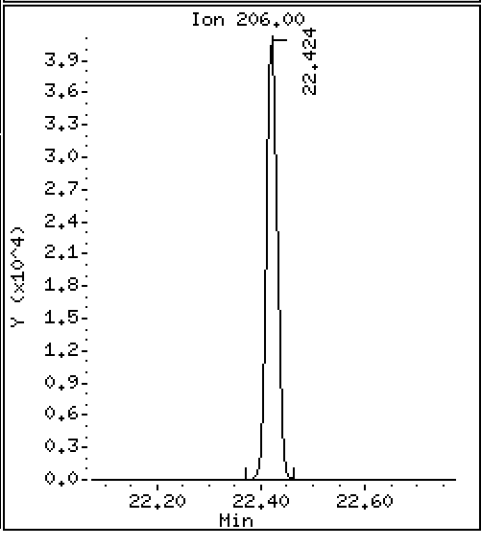


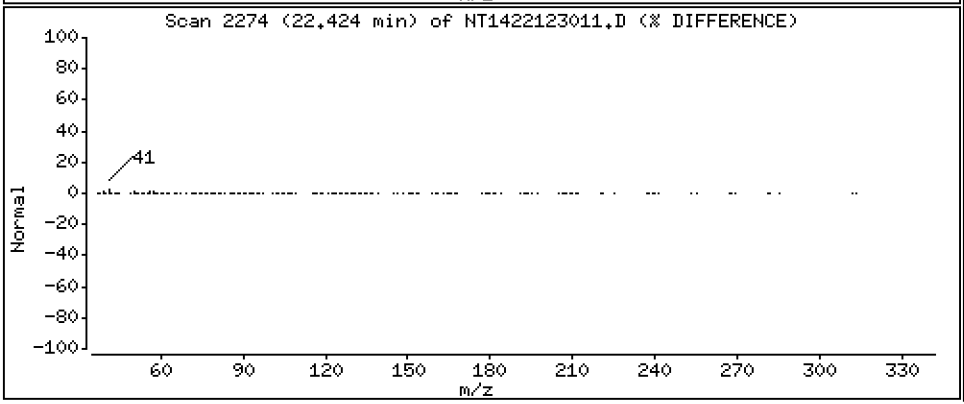












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

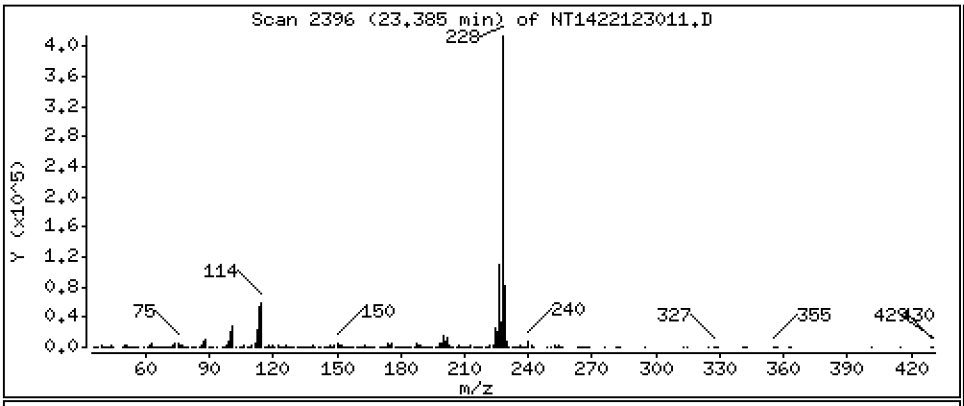
Operator: VTS

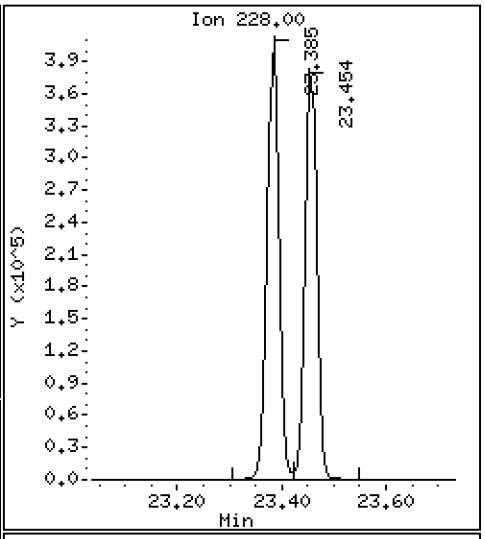
Column phase: ZB-5msi

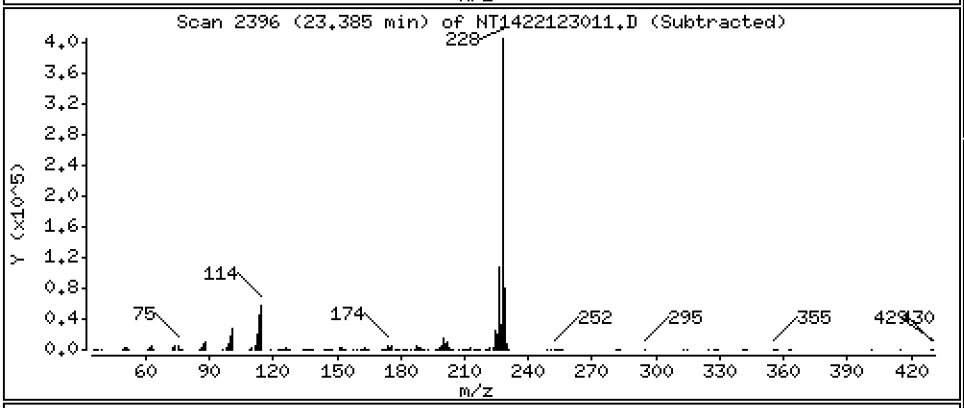
Column diameter: 0.25

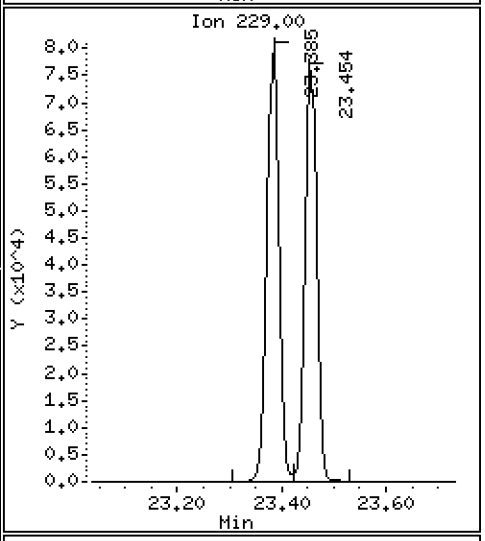
68 Benzo(a)anthracene

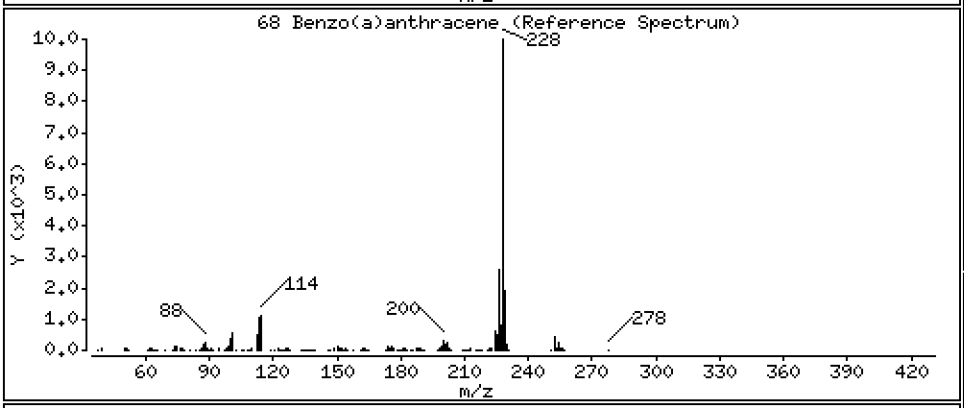
Concentration: 4.890 ug/mL

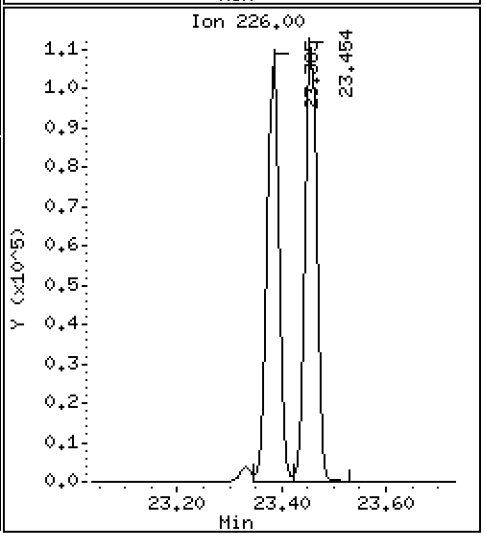


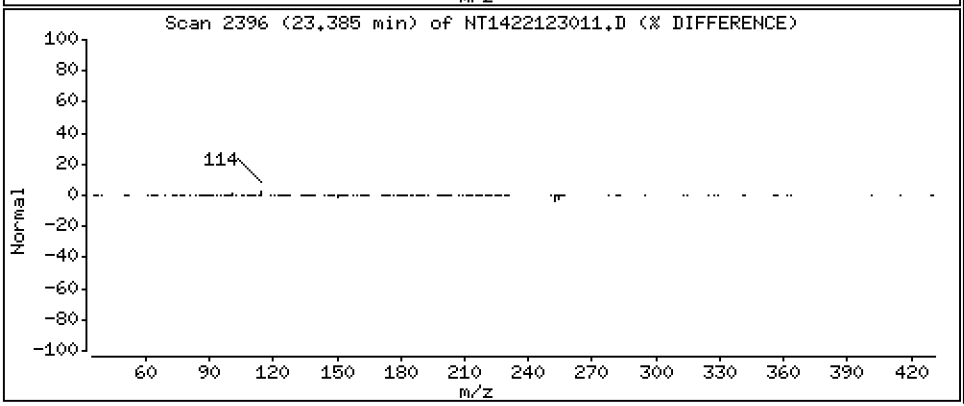












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

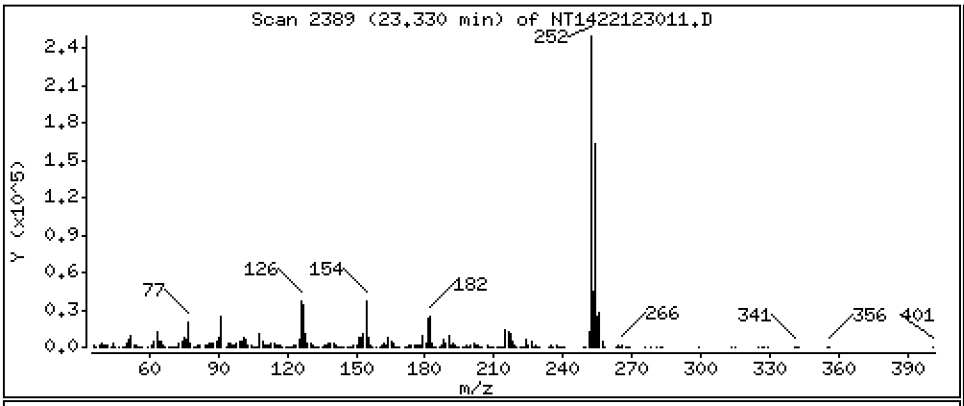
Operator: VTS

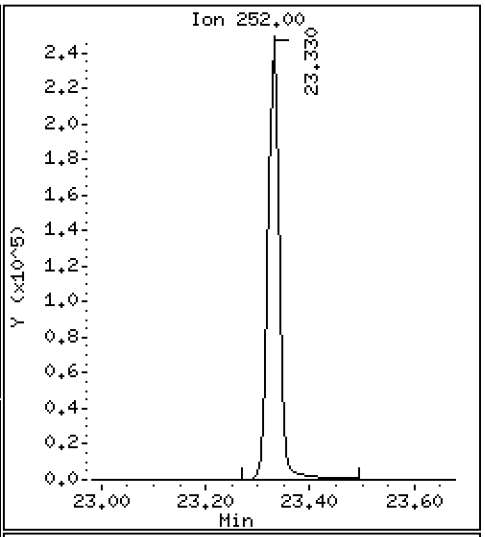
Column phase: ZB-5msi

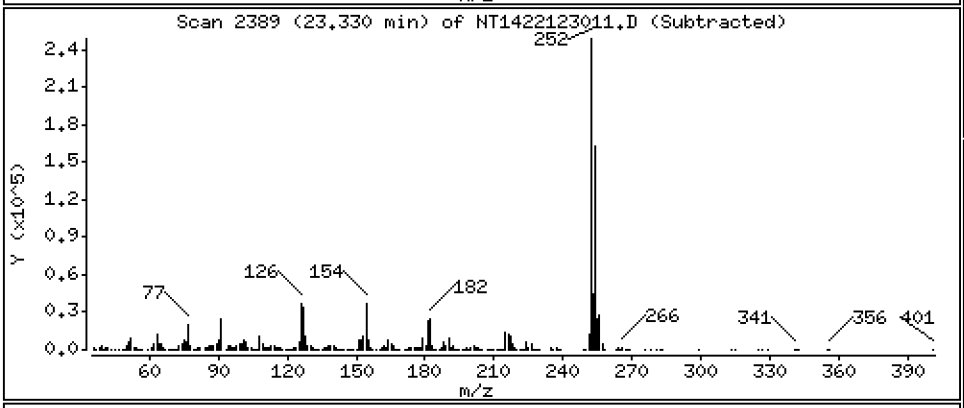
Column diameter: 0.25

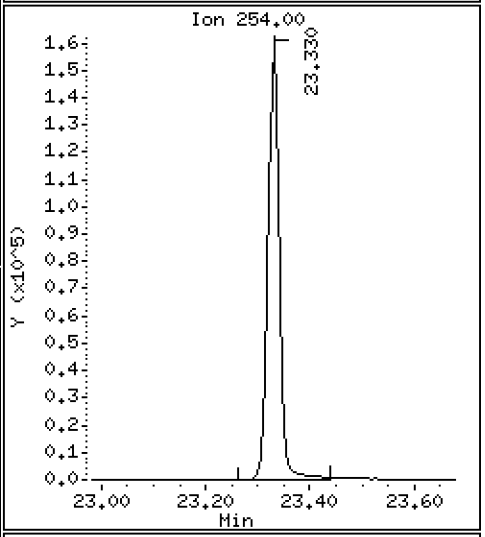
70 3,3'-Dichlorobenzidine

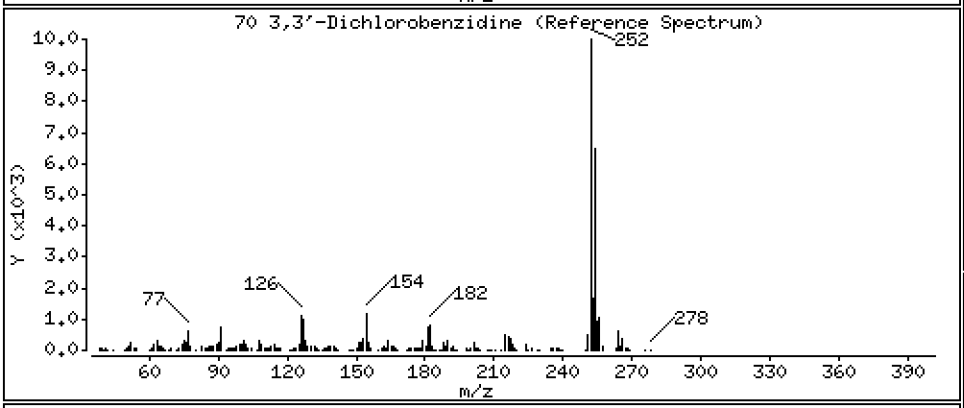
Concentration: 9.207 ug/mL

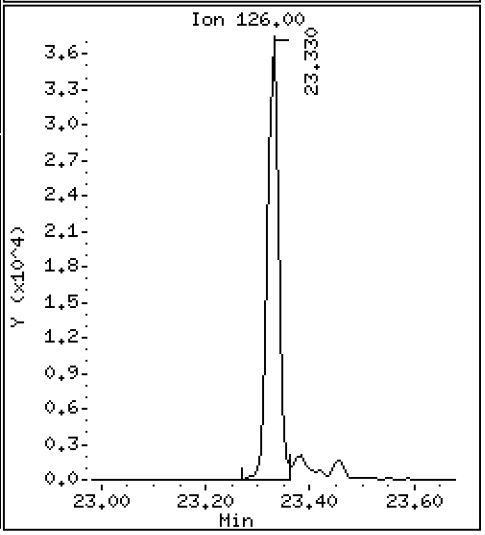


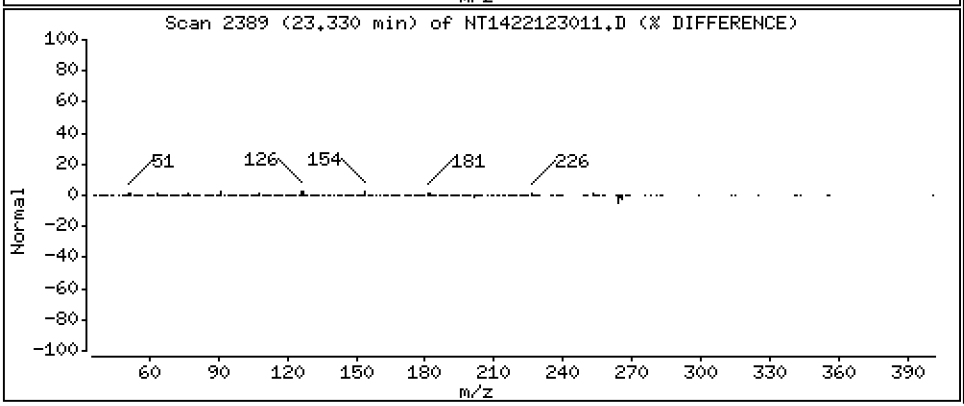












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

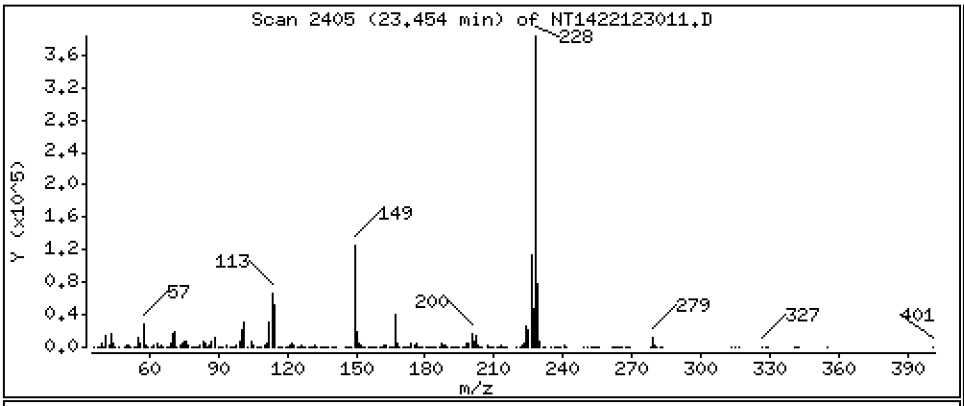
Operator: VTS

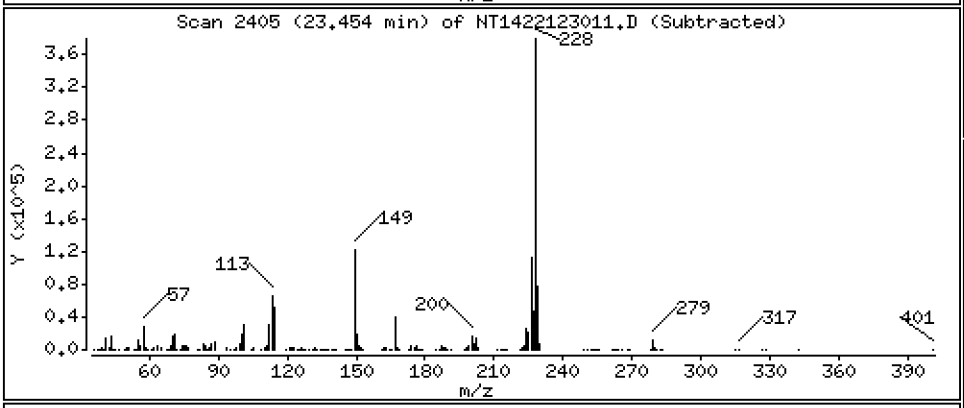
Column phase: ZB-5msi

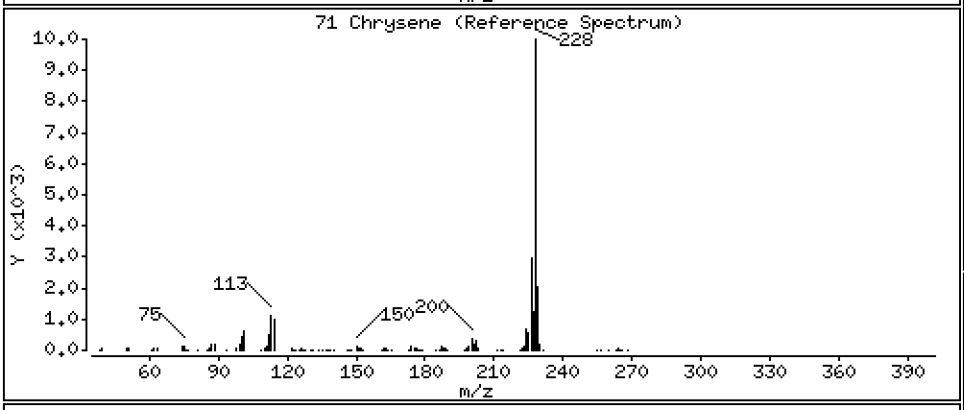
Column diameter: 0.25

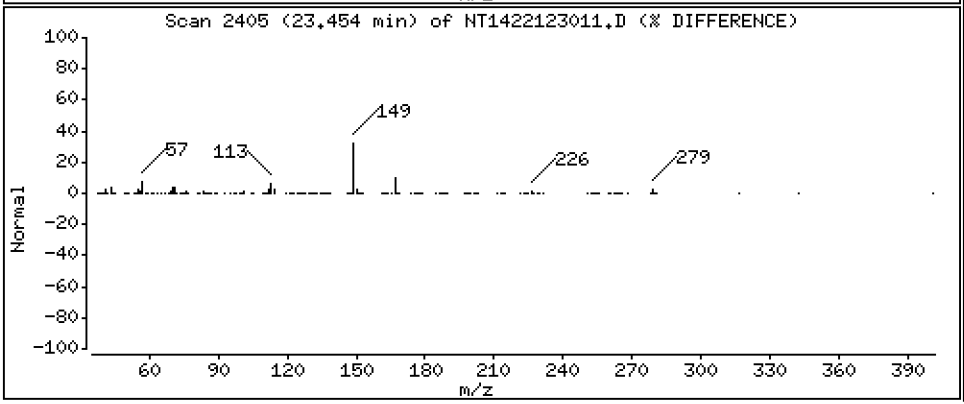
71 Chrysene

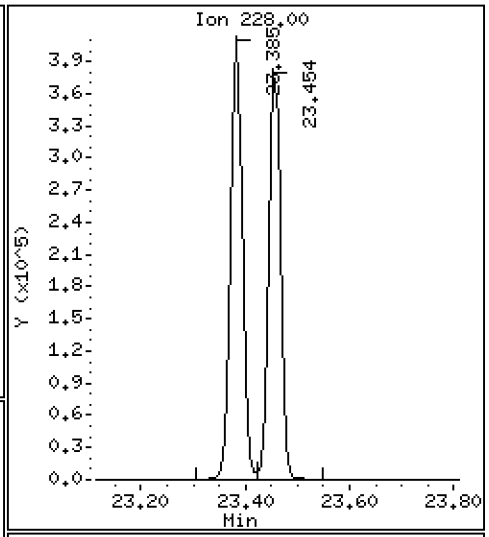
Concentration: 4.763 ug/mL

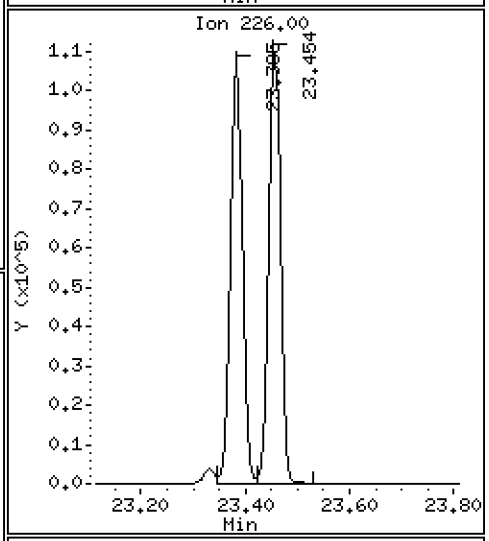


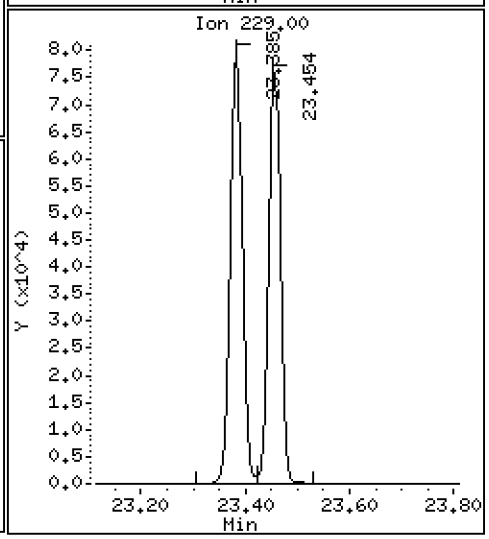












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

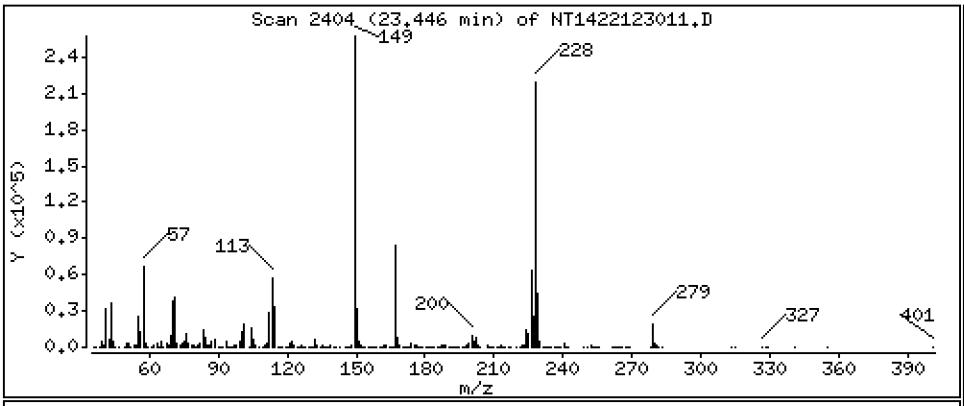
Operator: VTS

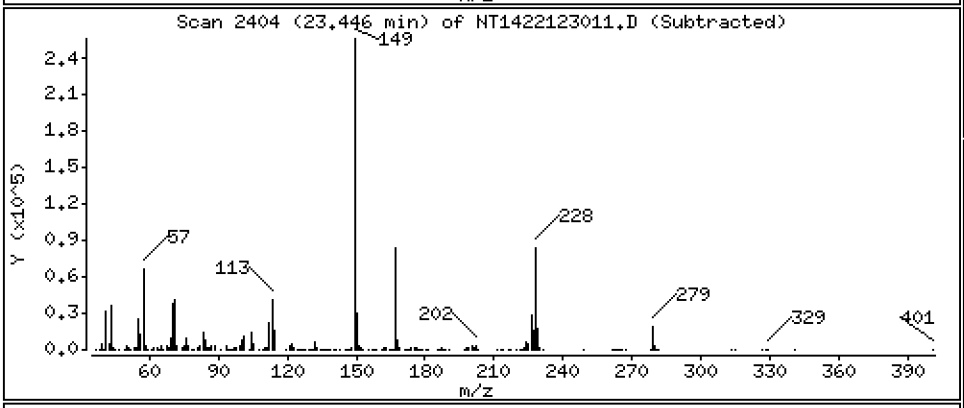
Column phase: ZB-5msi

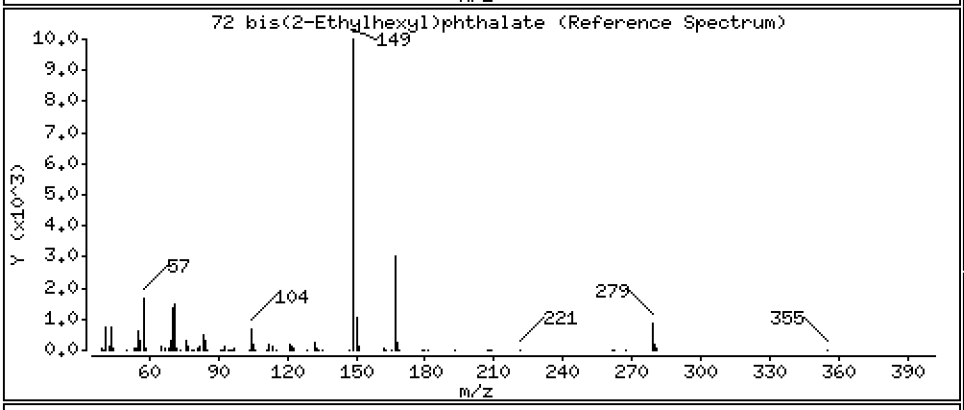
Column diameter: 0.25

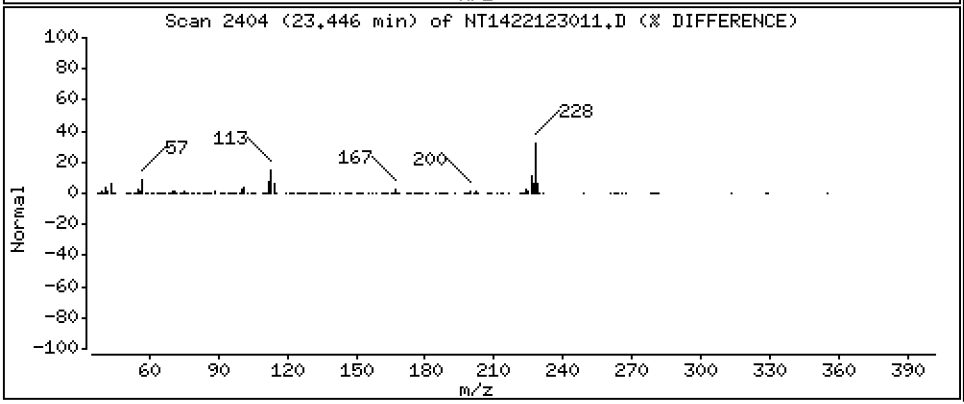
72 bis(2-Ethylhexyl)phthalate

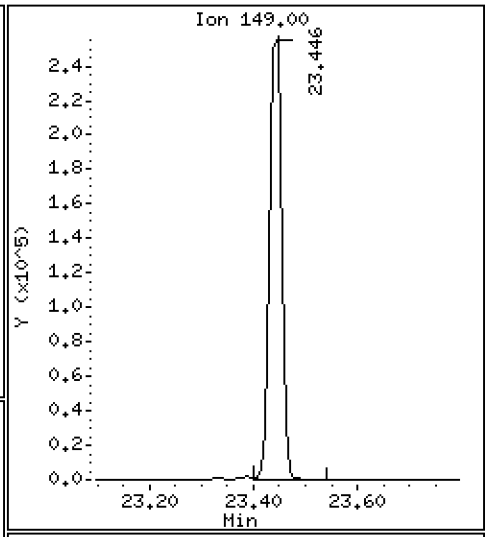
Concentration: 5.899 ug/mL

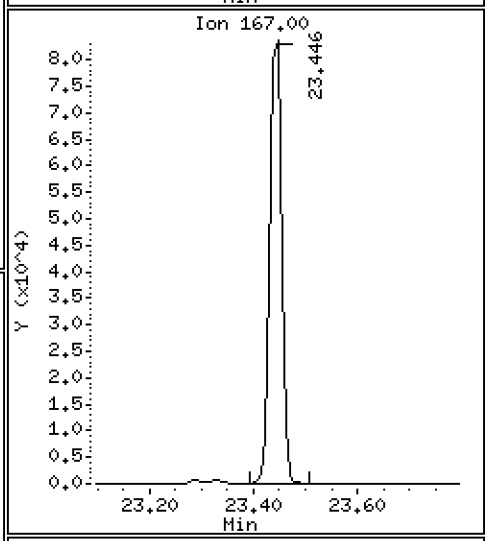


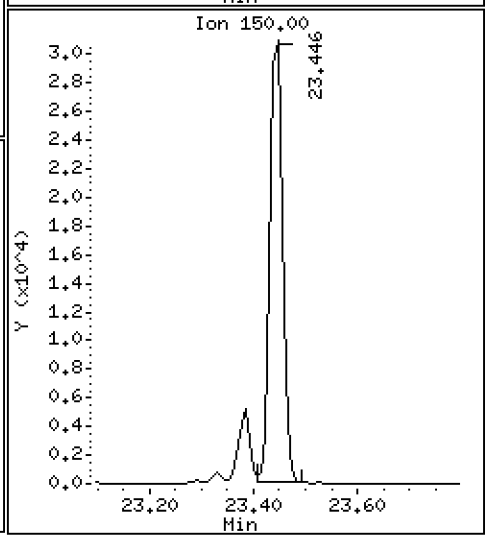












Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

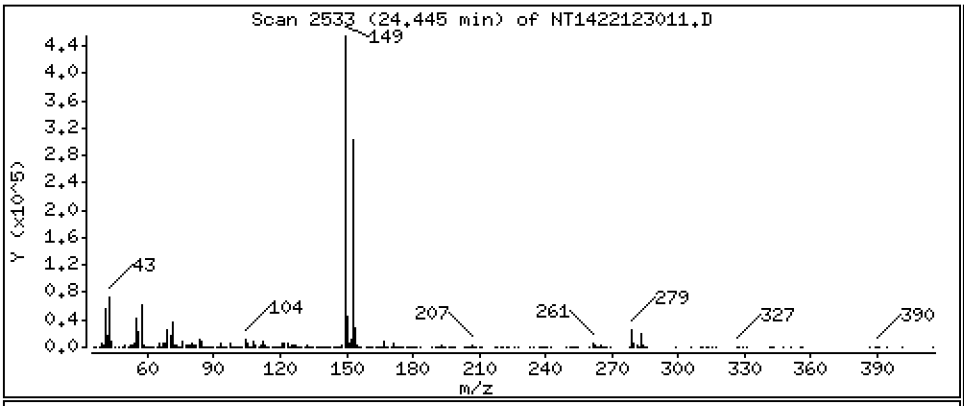
Operator: VTS

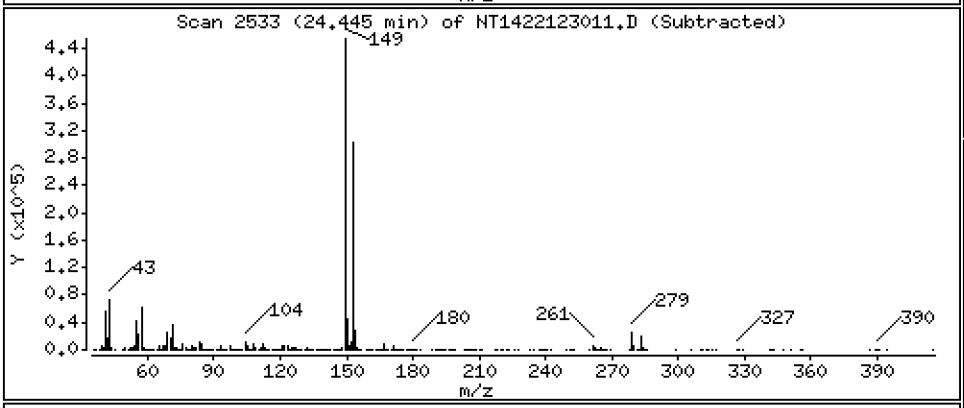
Column phase: ZB-5msi

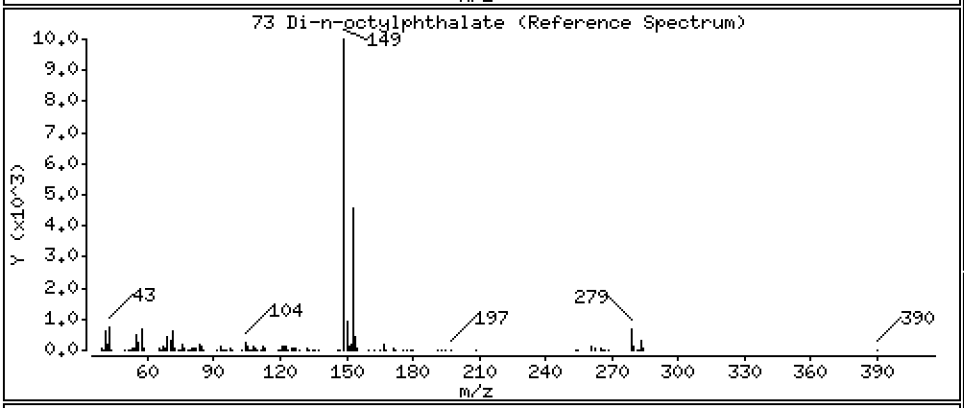
Column diameter: 0.25

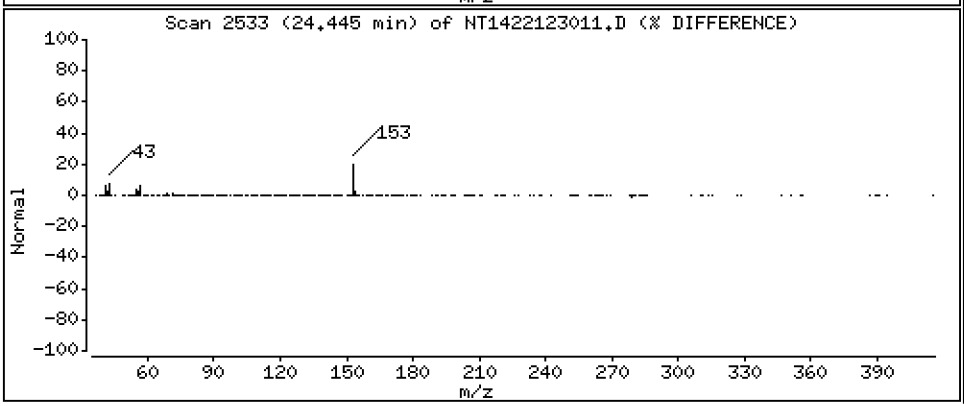
73 Di-n-octylphthalate

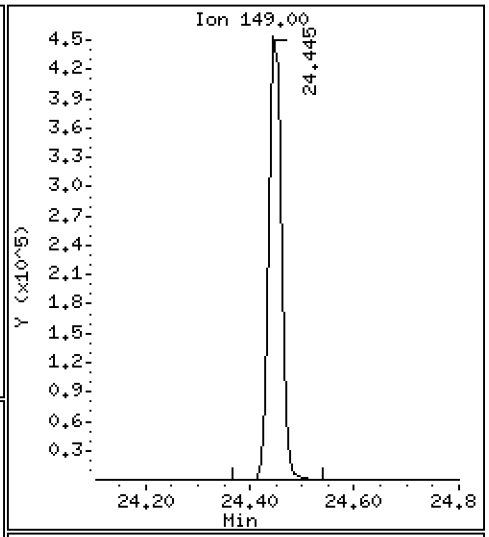
Concentration: 5.083 ug/mL

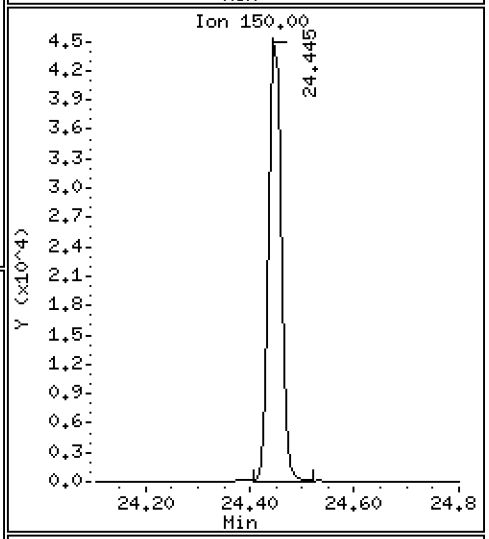


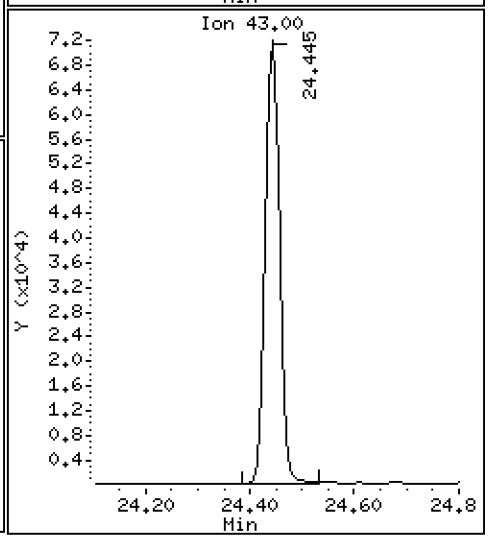












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

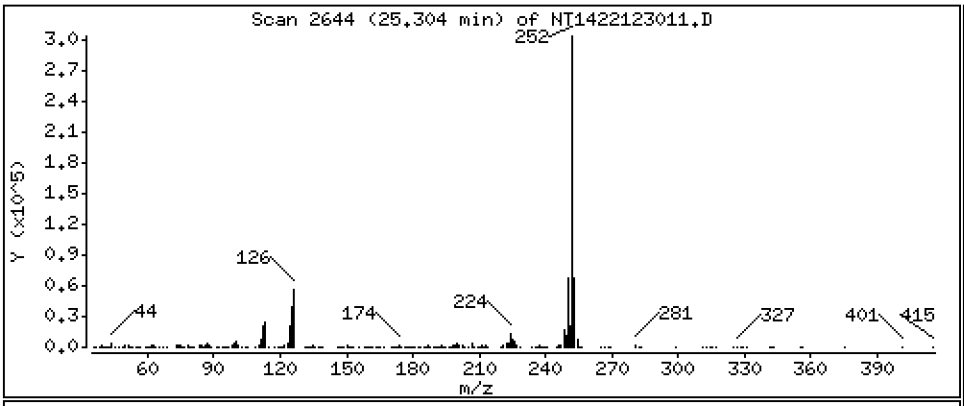
Operator: VTS

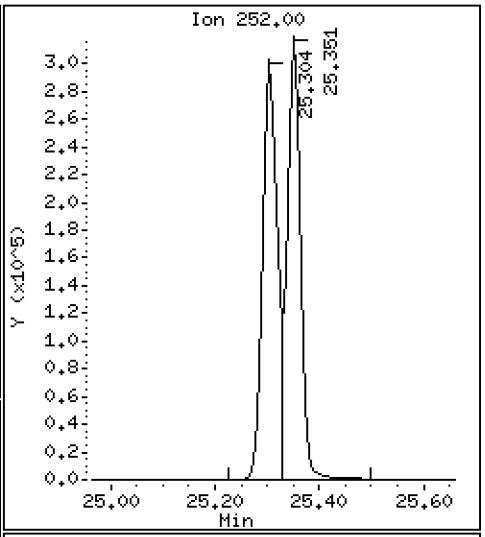
Column phase: ZB-5msi

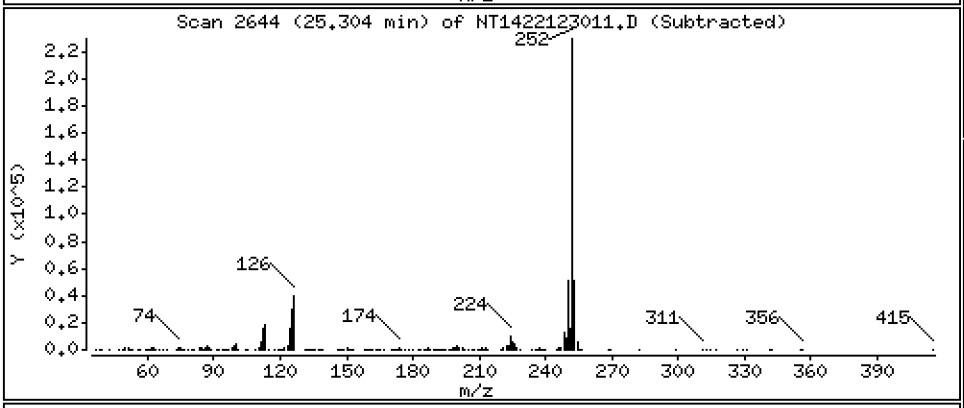
Column diameter: 0.25

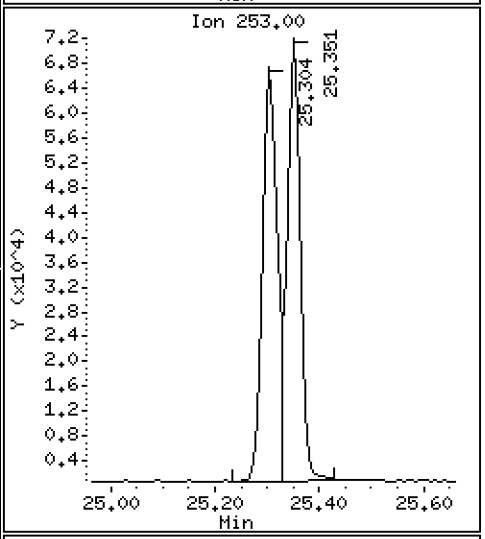
74 Benzo(b)fluoranthene

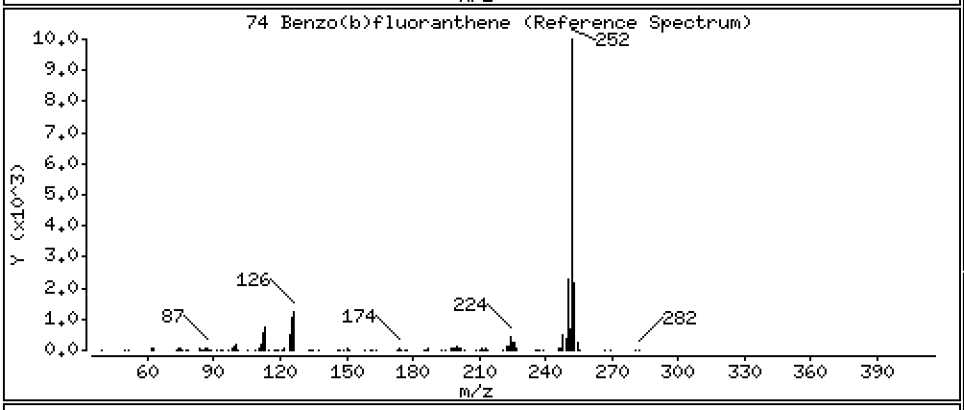
Concentration: 4.893 ug/mL

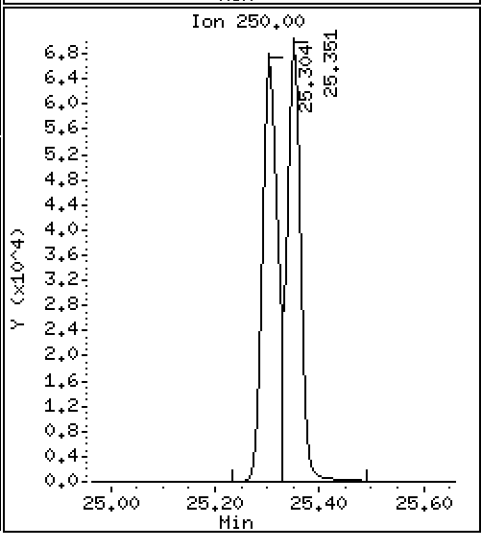


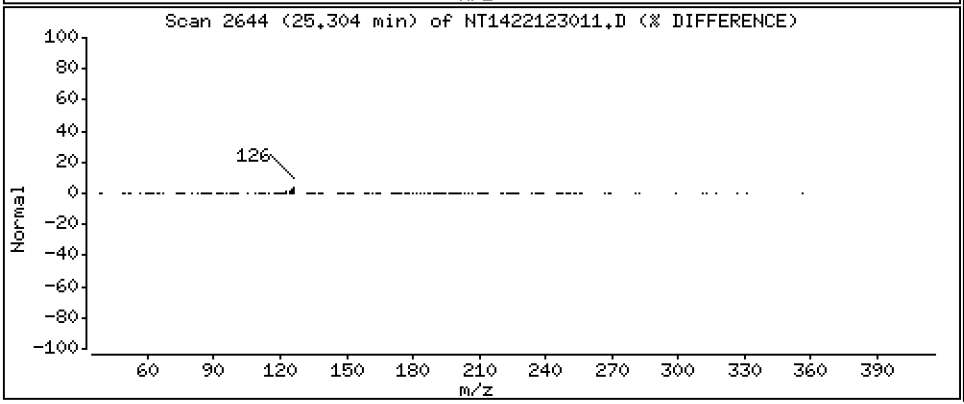












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

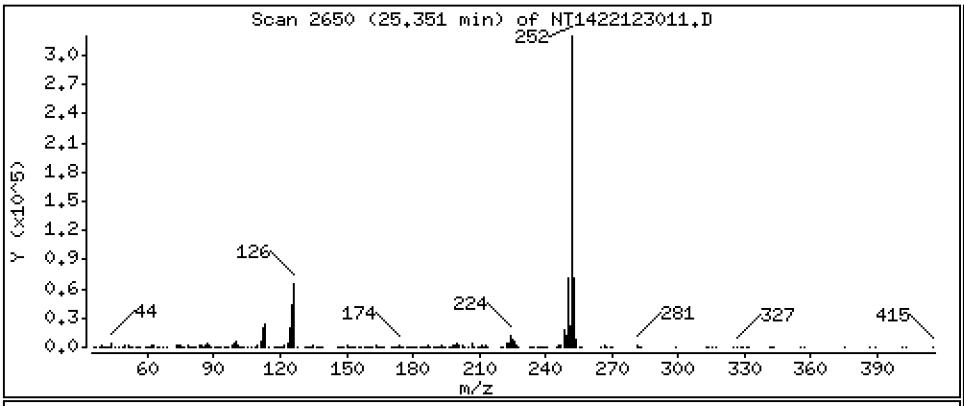
Operator: VTS

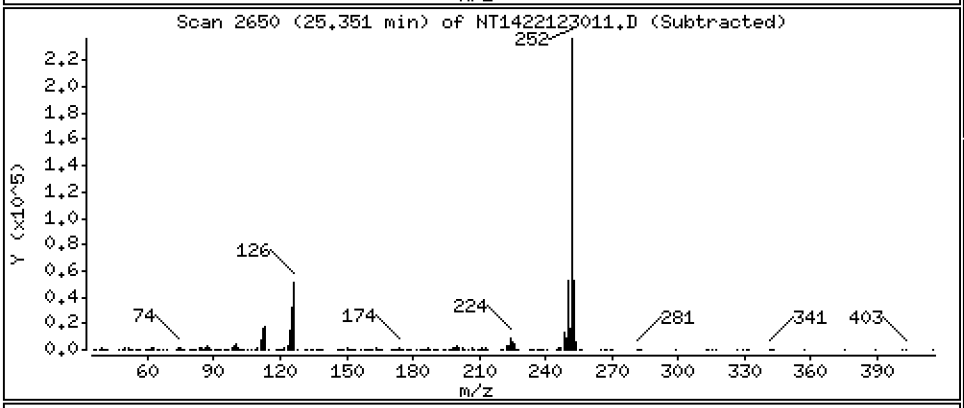
Column phase: ZB-5msi

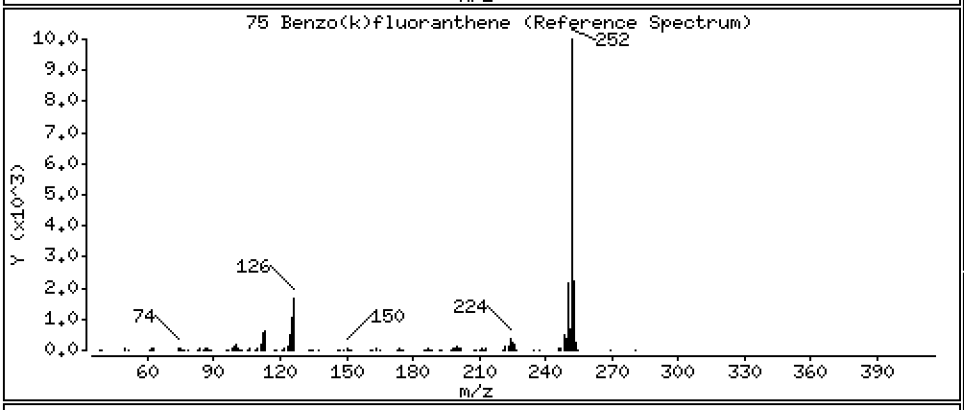
Column diameter: 0.25

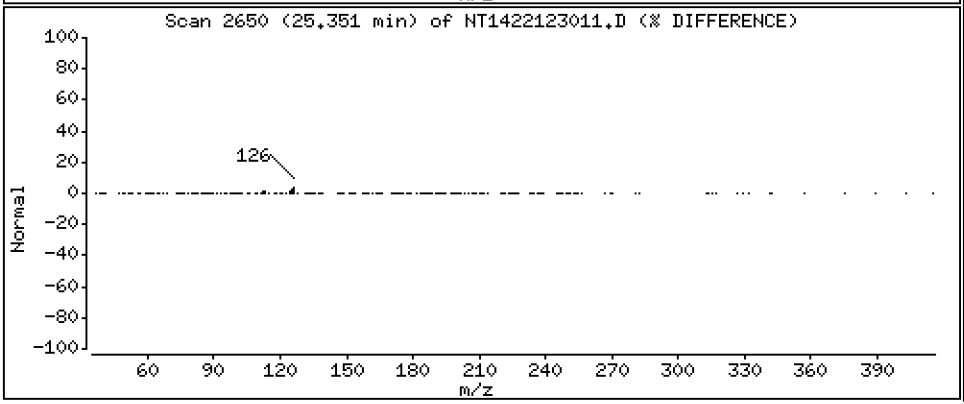
75 Benzo(k)fluoranthene

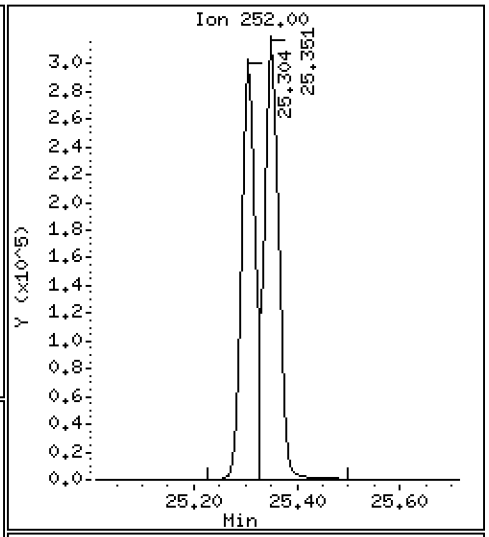
Concentration: 5.093 ug/mL

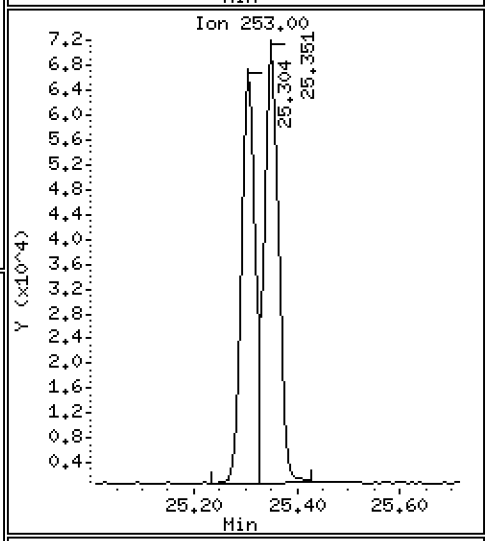


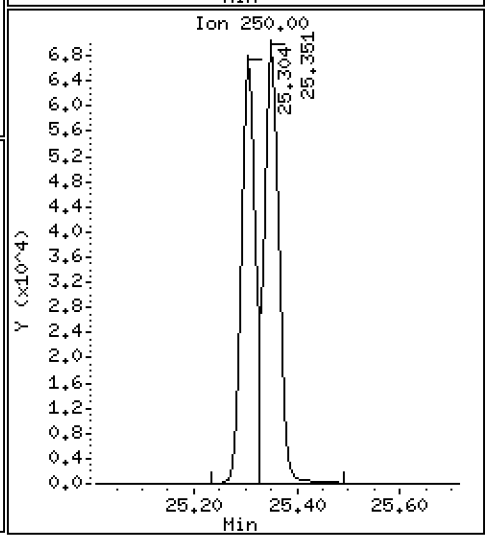












Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123011.D

Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

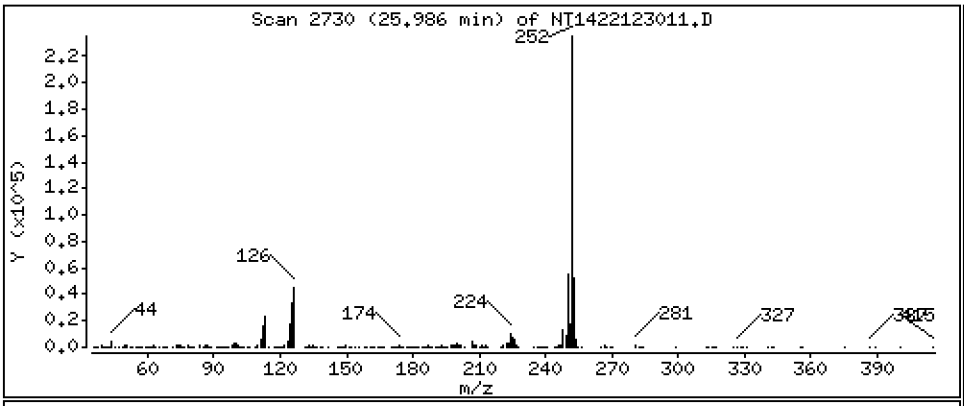
Operator: VTS

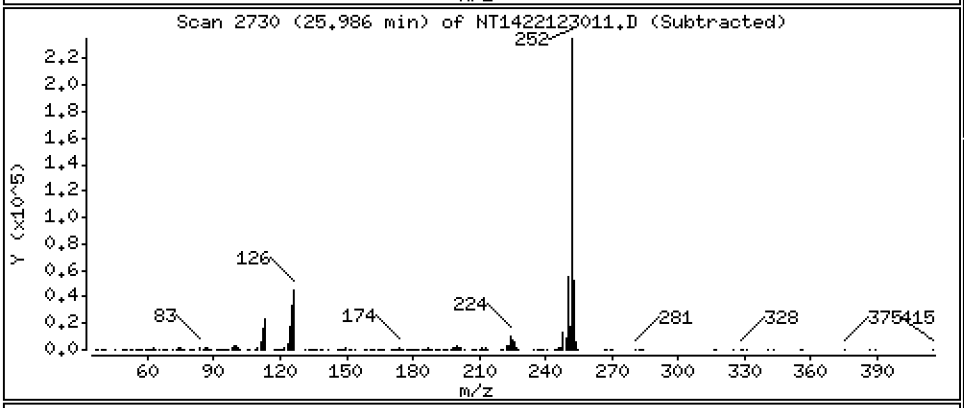
Column phase: ZB-5msi

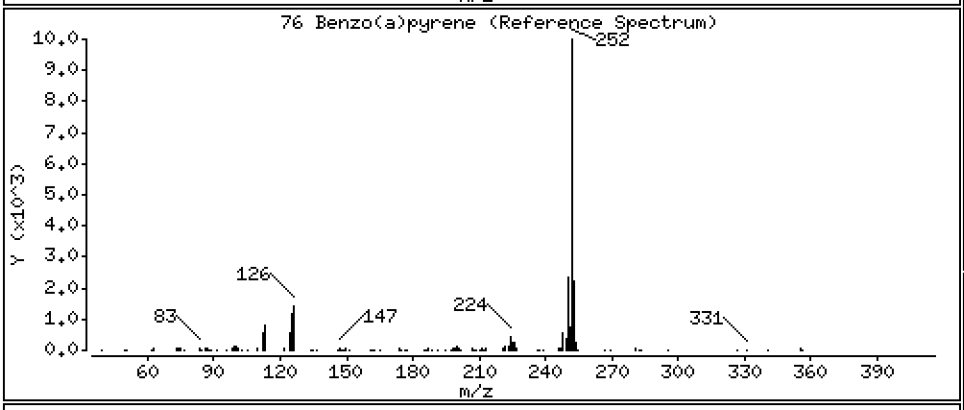
Column diameter: 0.25

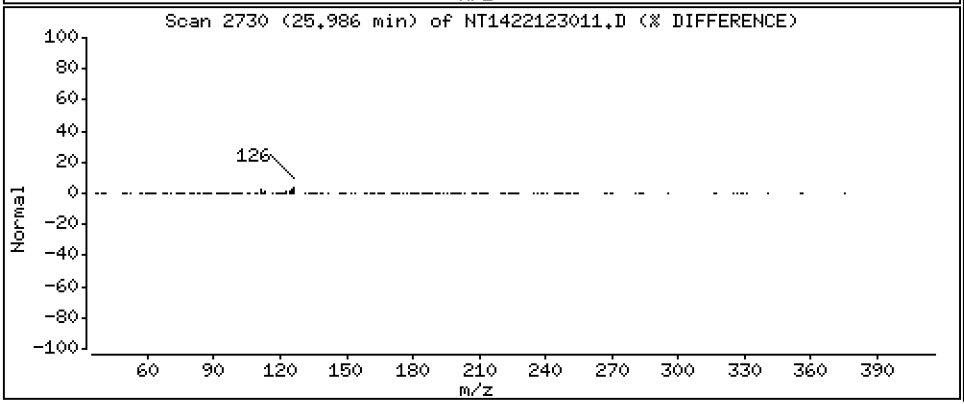
76 Benzo(a)pyrene

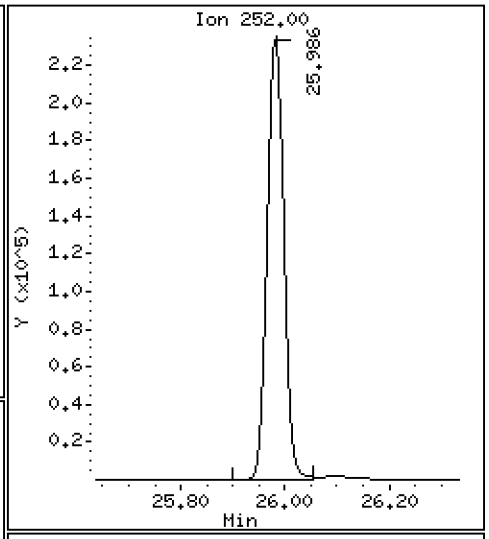
Concentration: 5.092 ug/mL

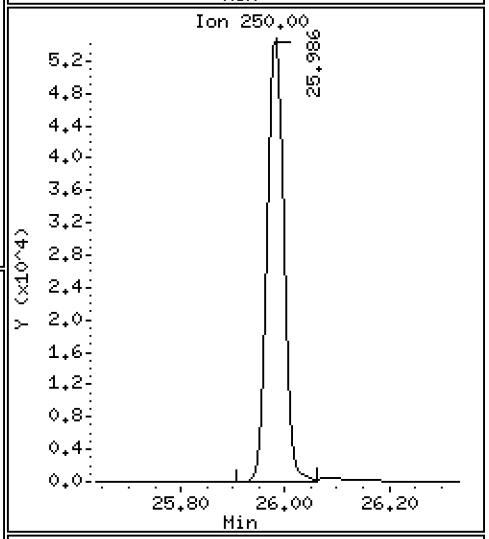


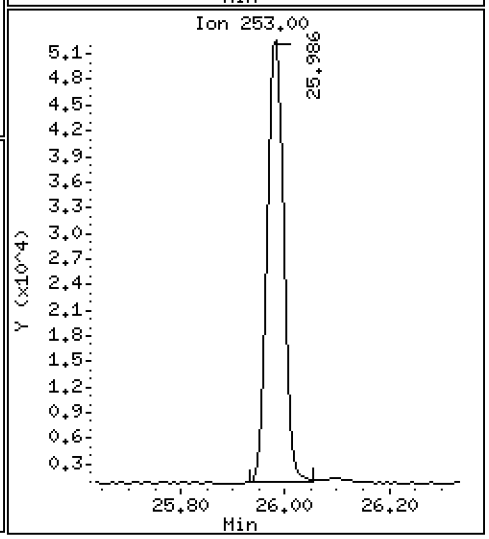












Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

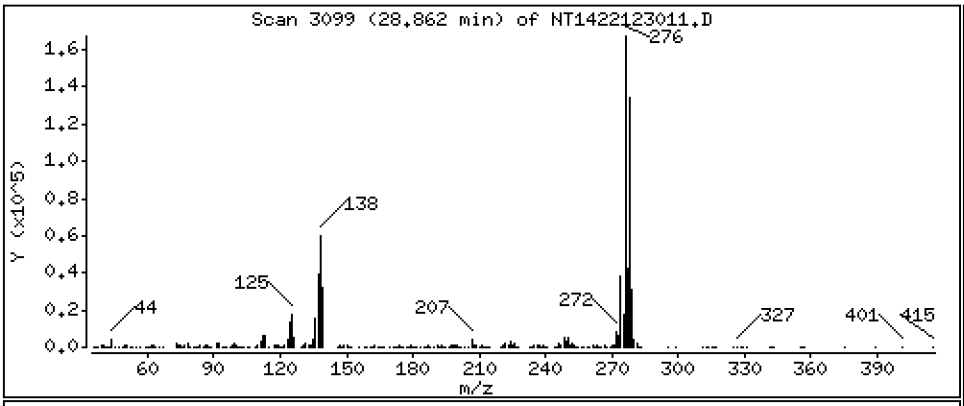
Operator: VTS

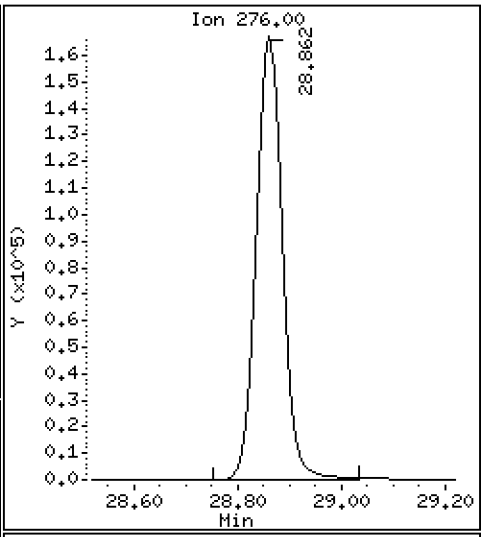
Column phase: ZB-5msi

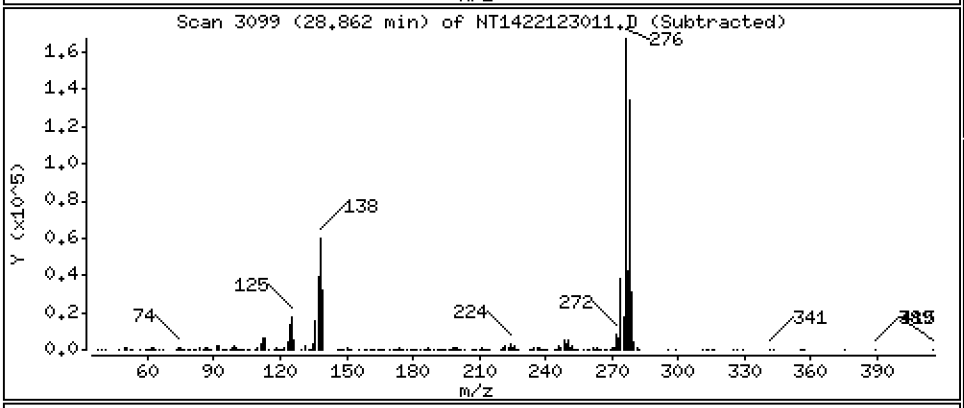
Column diameter: 0.25

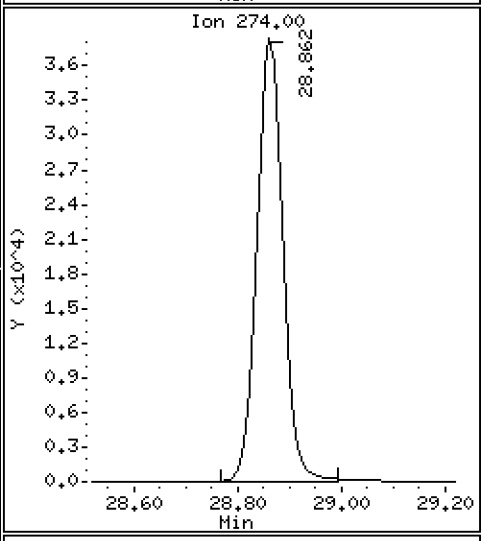
78 Indeno(1,2,3-cd)pyrene

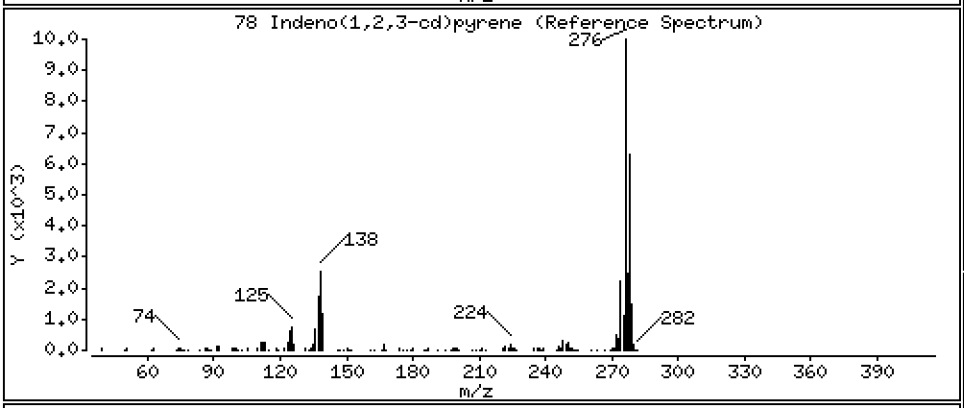
Concentration: 5.128 ug/mL

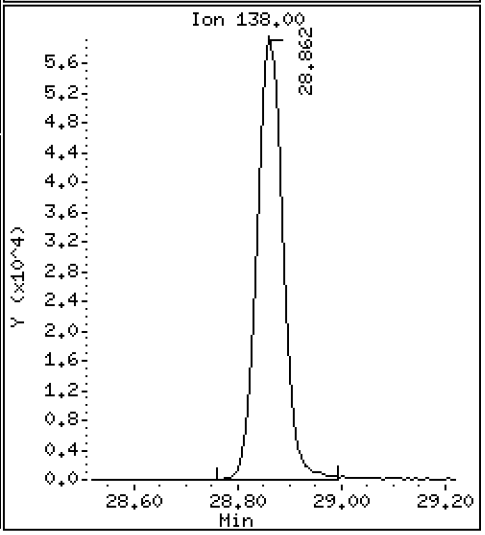


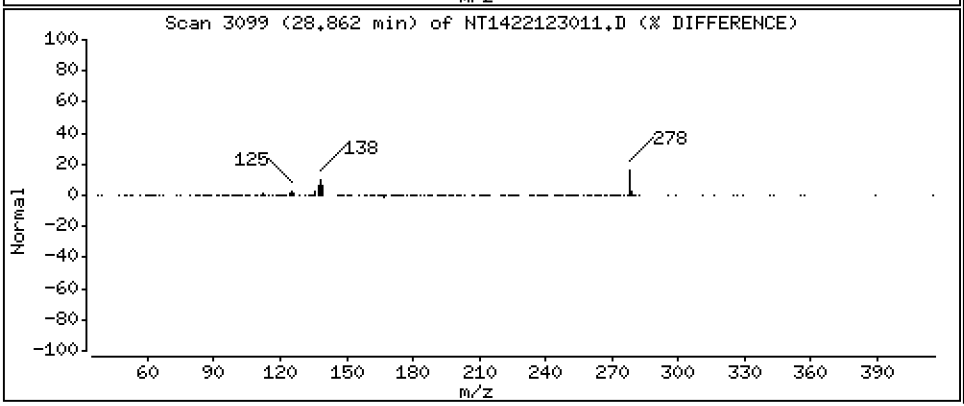












Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123011.D

Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

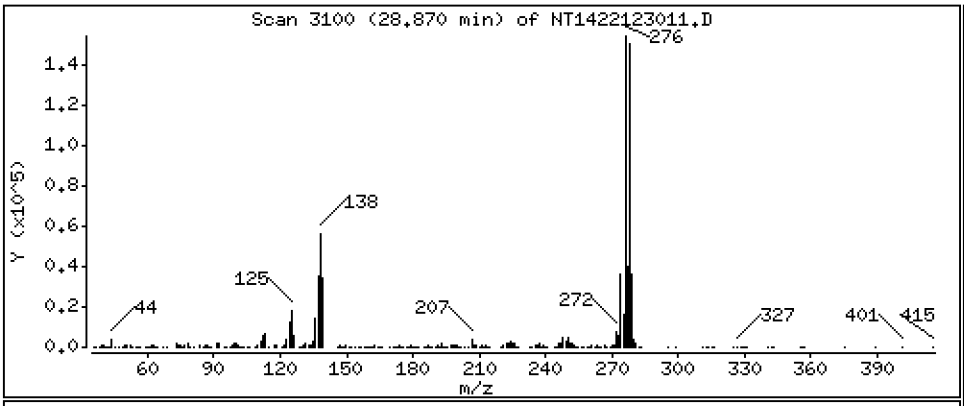
Operator: VTS

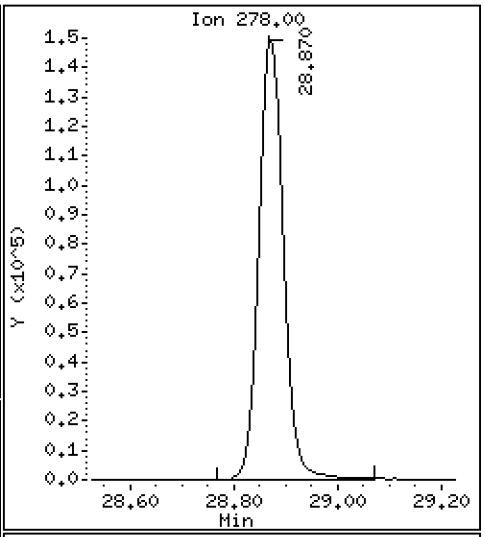
Column phase: ZB-5msi

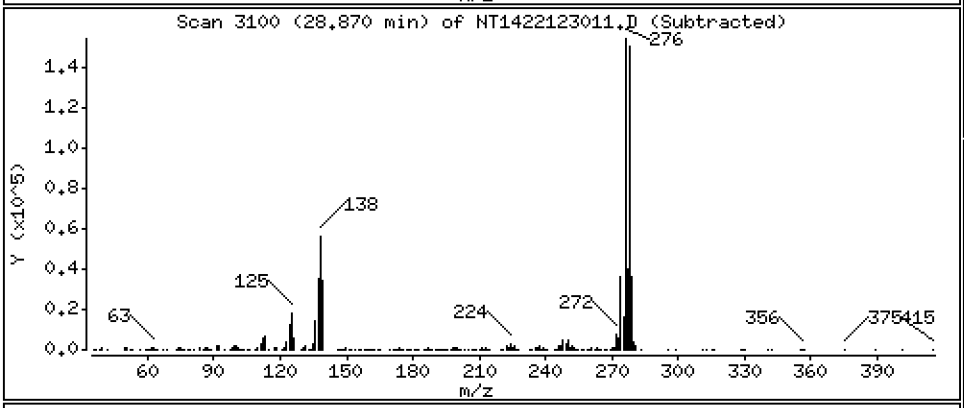
Column diameter: 0.25

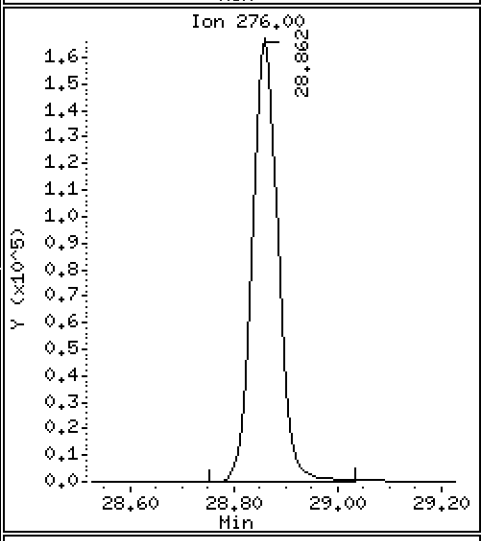
79 Dibenzo(a,h)anthracene

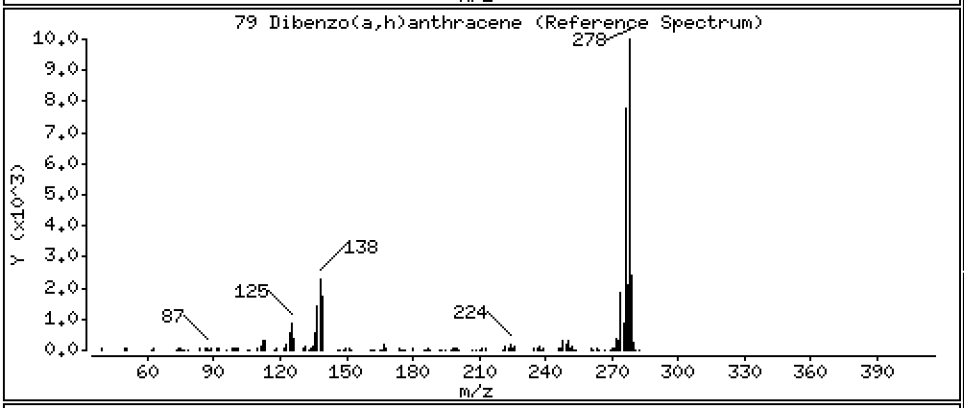
Concentration: 5.087 ug/mL

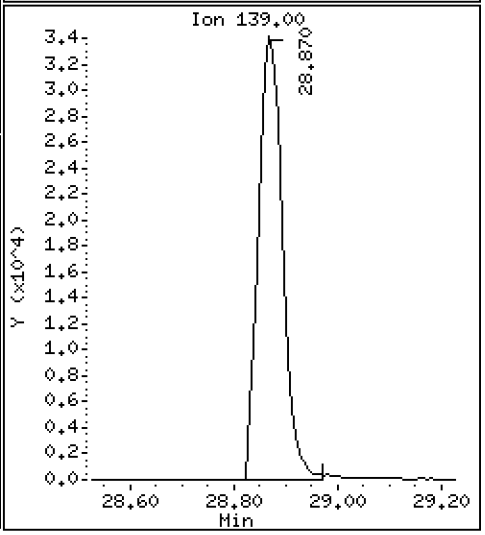


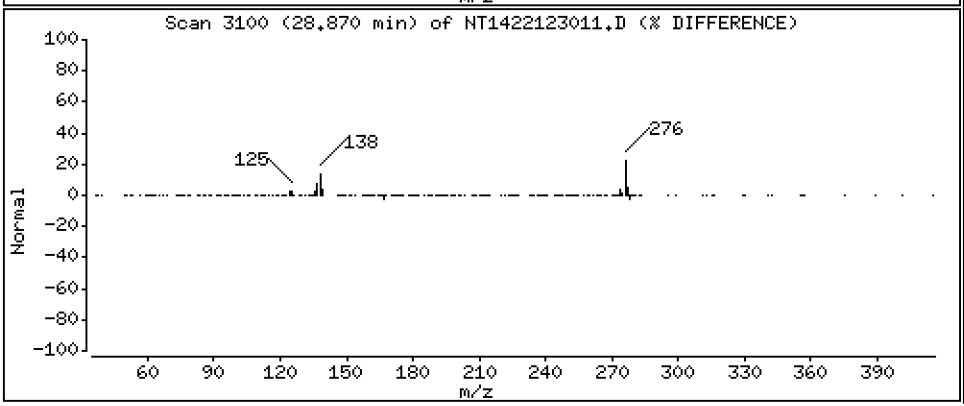












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

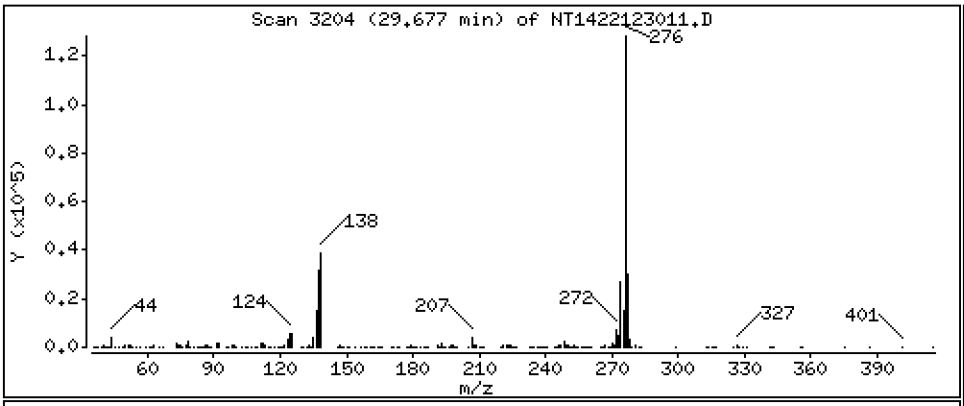
Operator: VTS

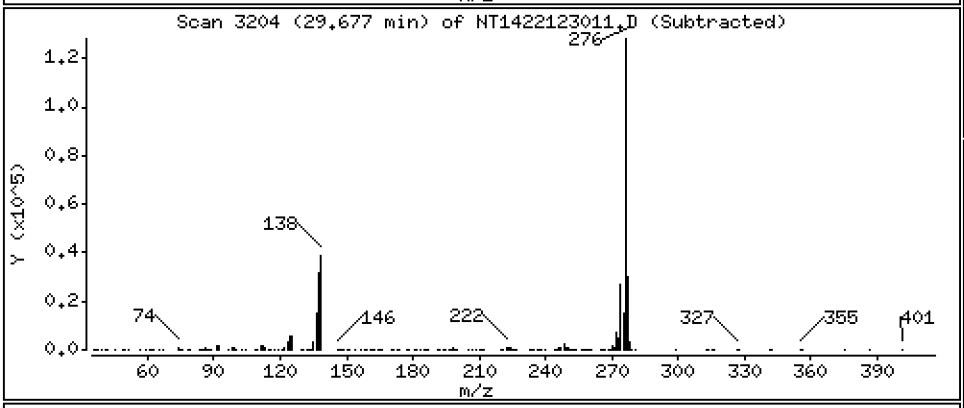
Column phase: ZB-5msi

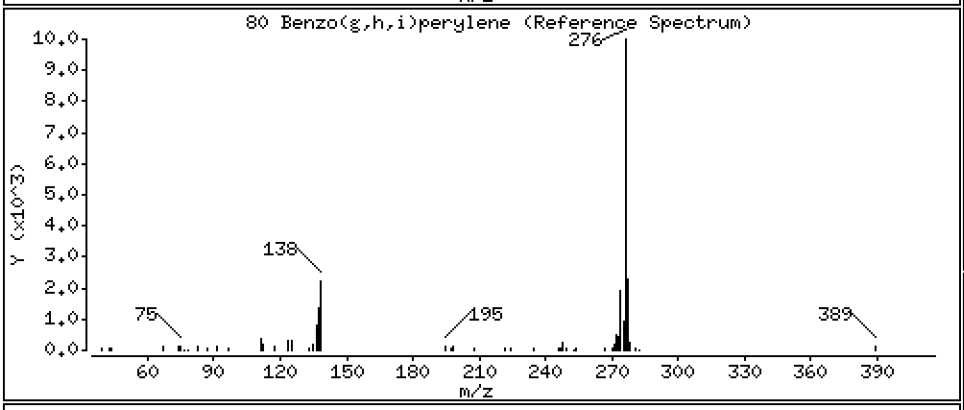
Column diameter: 0.25

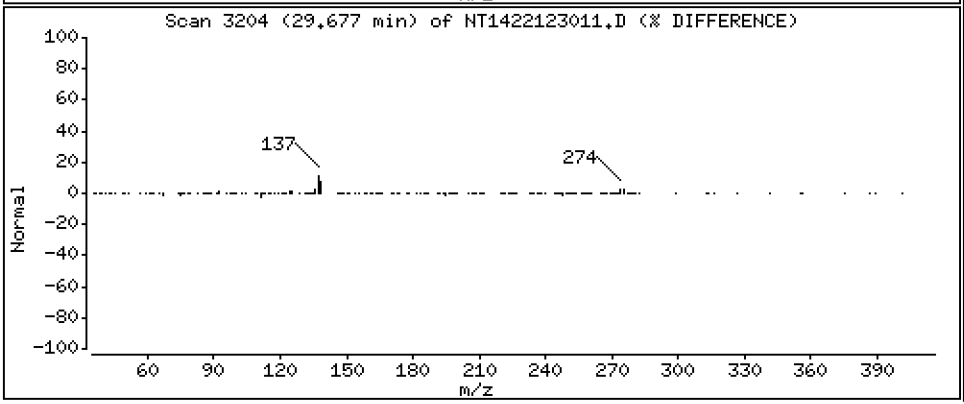
80 Benzo(g,h,i)perylene

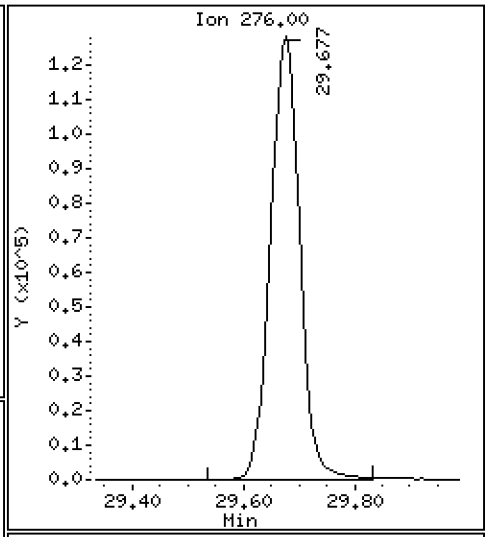
Concentration: 5.037 ug/mL

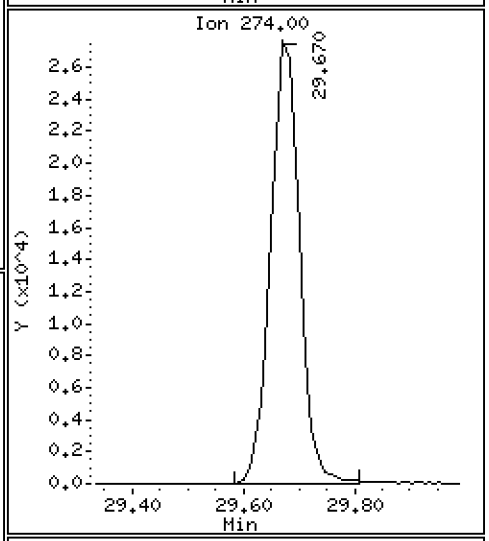


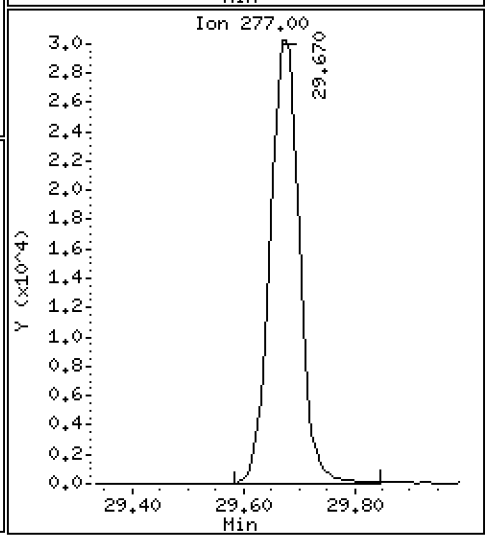












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

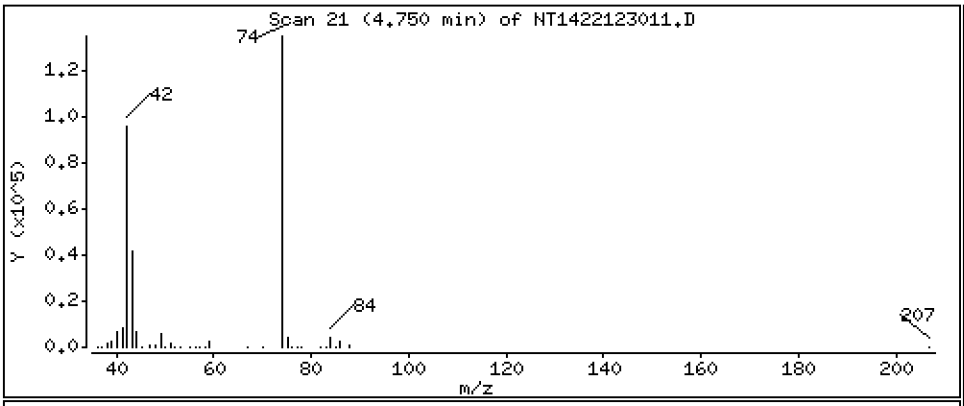
Operator: VTS

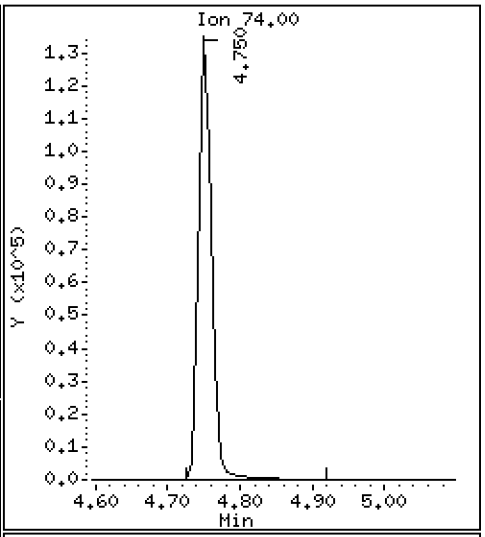
Column phase: ZB-5msi

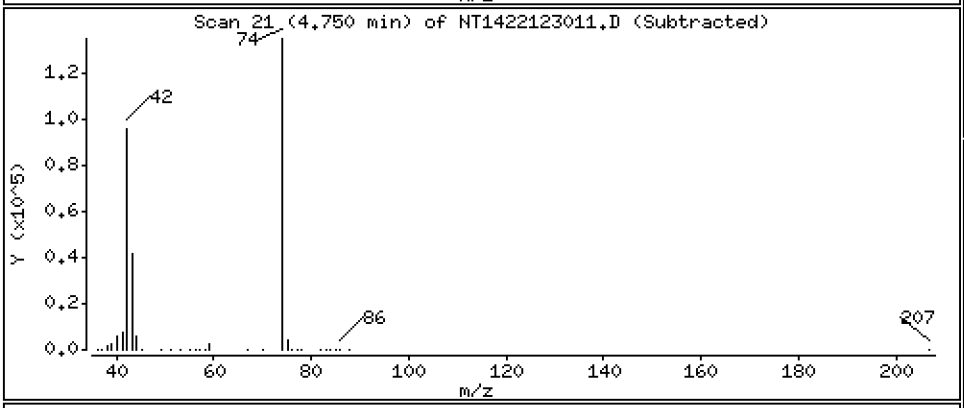
Column diameter: 0.25

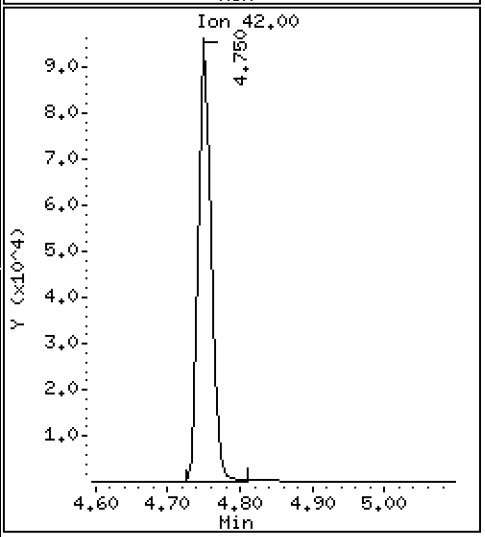
90 N-Nitrosodimethylamine

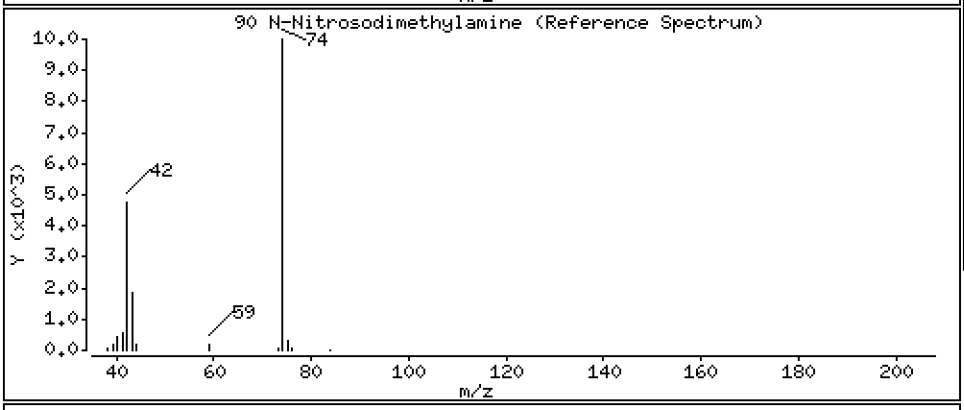
Concentration: 5.154 ug/mL

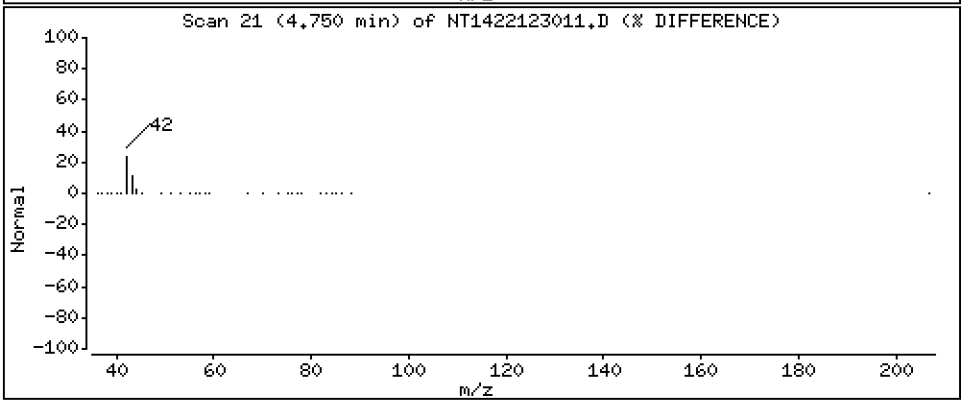












Date : 30-DEC-2022 13:31

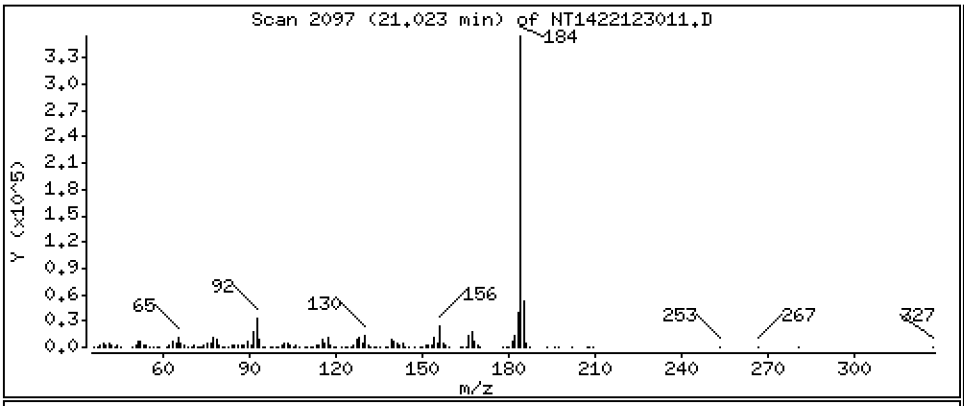
Client ID: Instrument: nt14.i

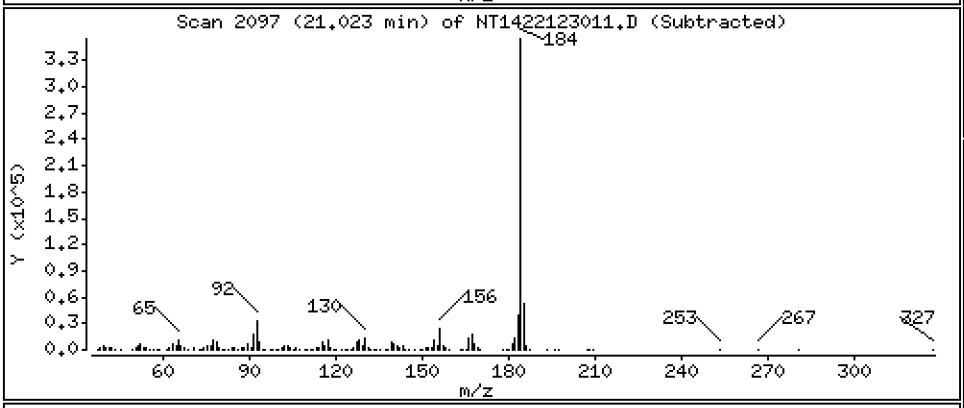
Sample Info: SKL0355-SCV1

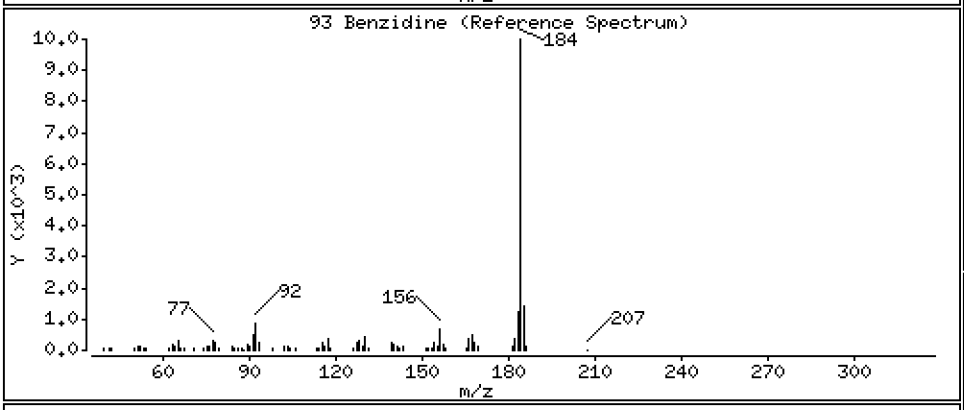
Operator: VTS

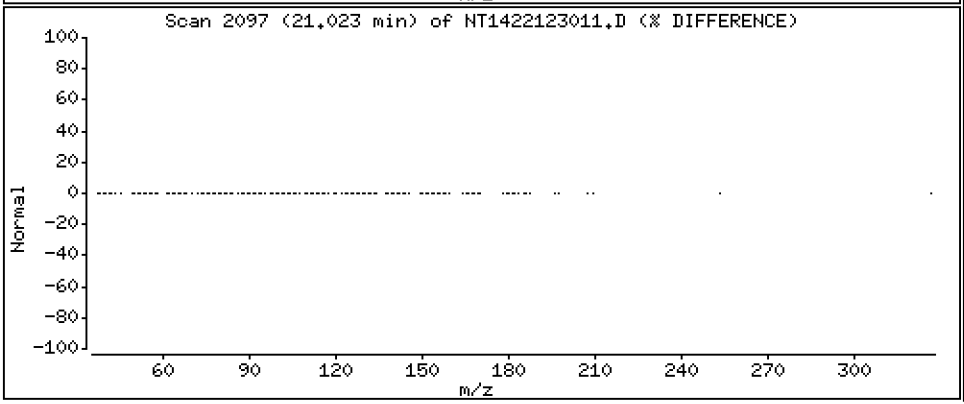
Column phase: ZB-5msi Column diameter: 0.25

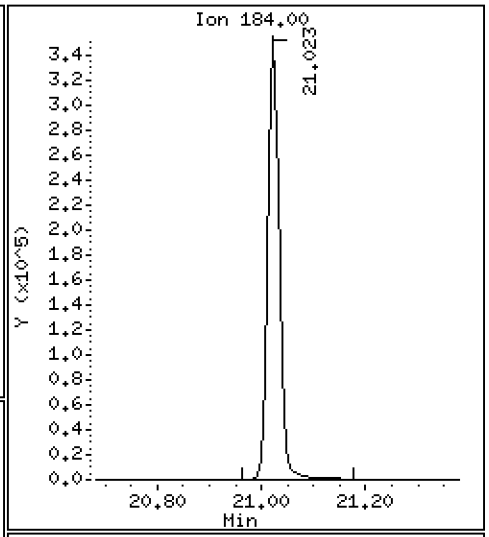
93 Benzidine Concentration: 9.704 ug/mL

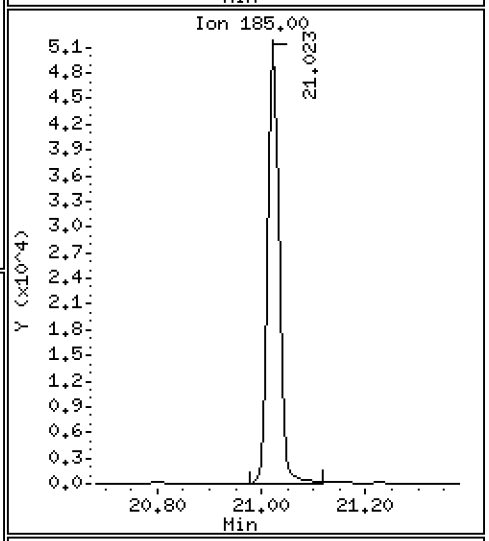


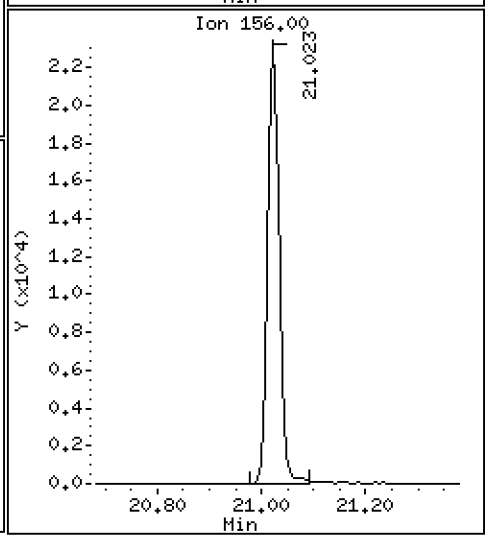












Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123011.D

Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

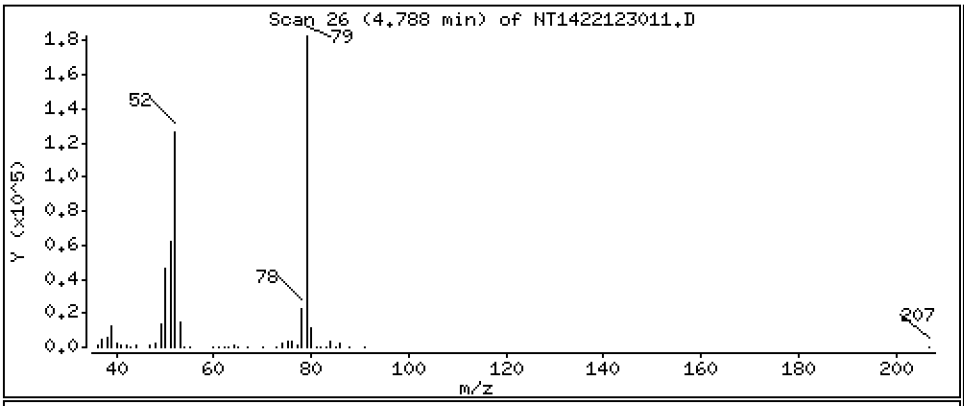
Operator: VTS

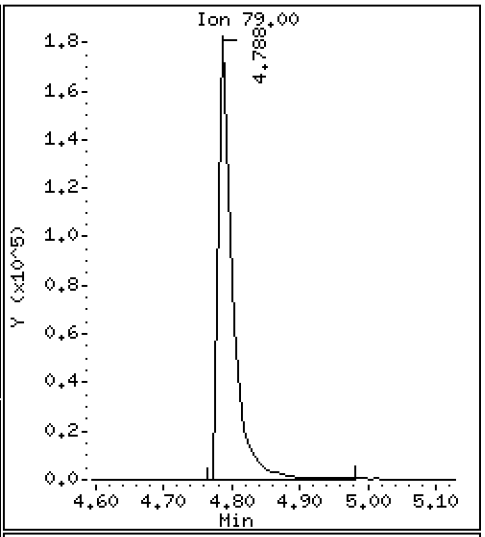
Column phase: ZB-5msi

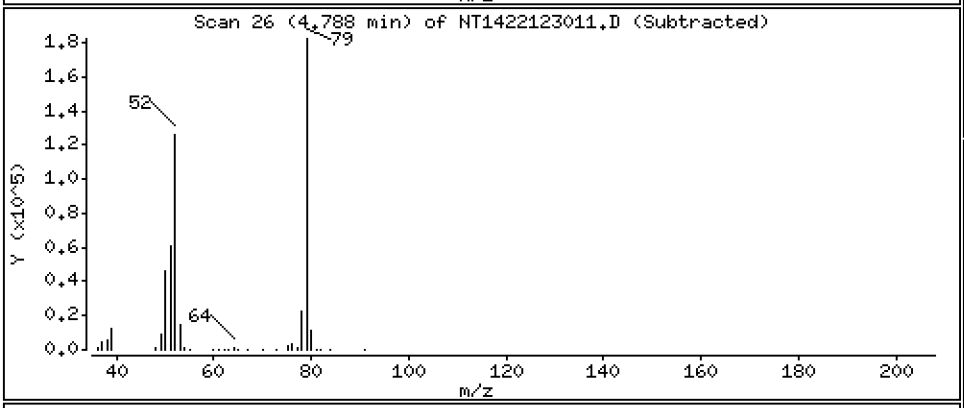
Column diameter: 0.25

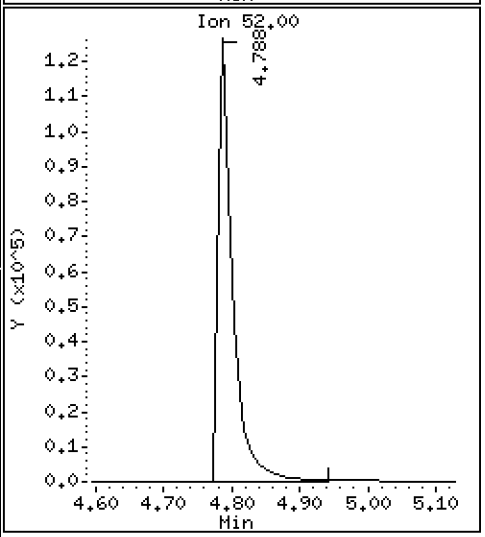
103 Pyridine

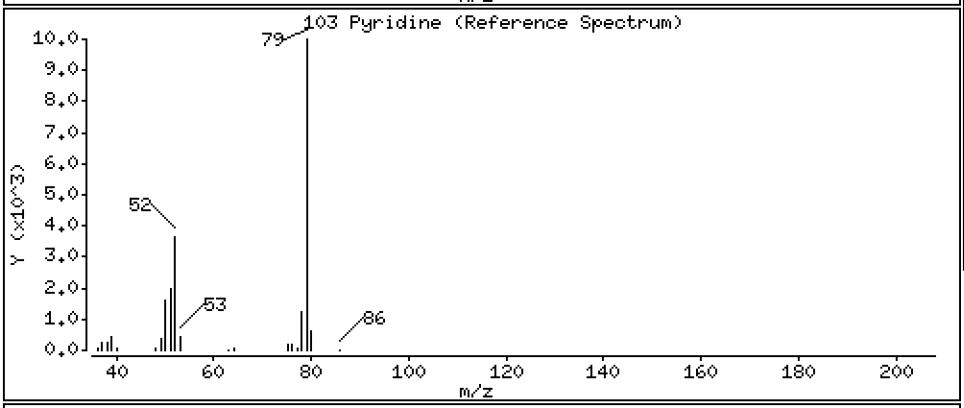
Concentration: 2.681 ug/mL

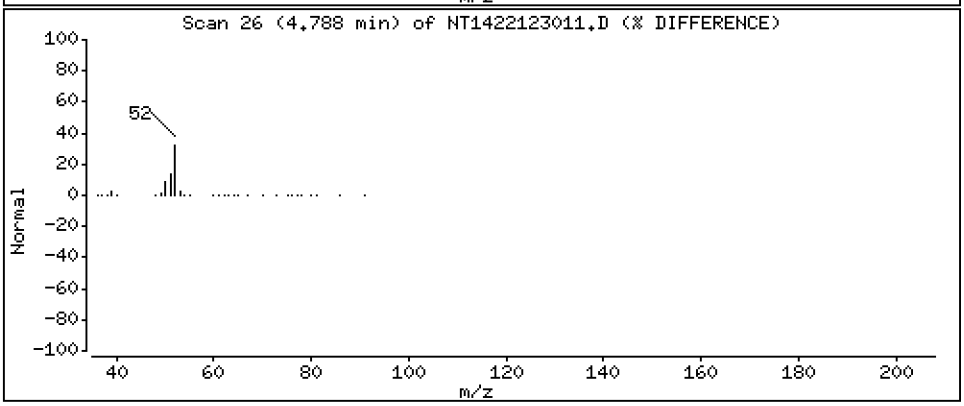












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

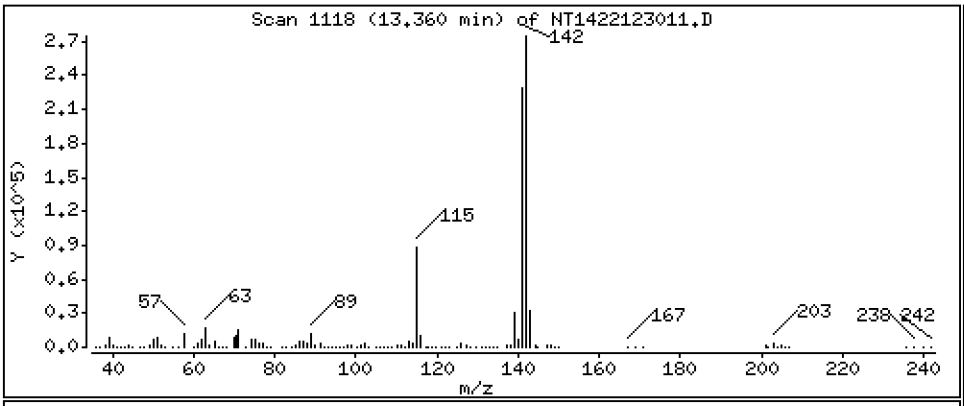
Operator: VTS

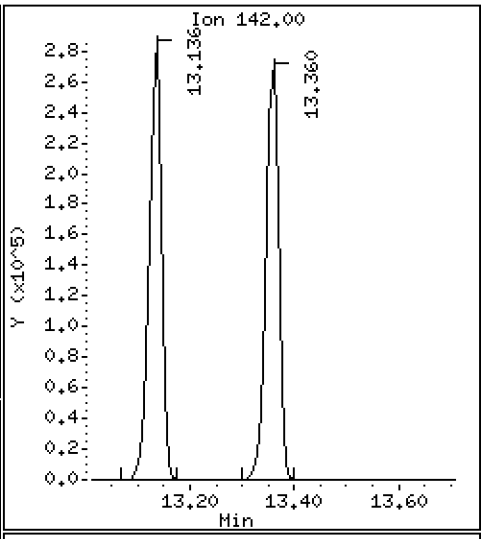
Column phase: ZB-5msi

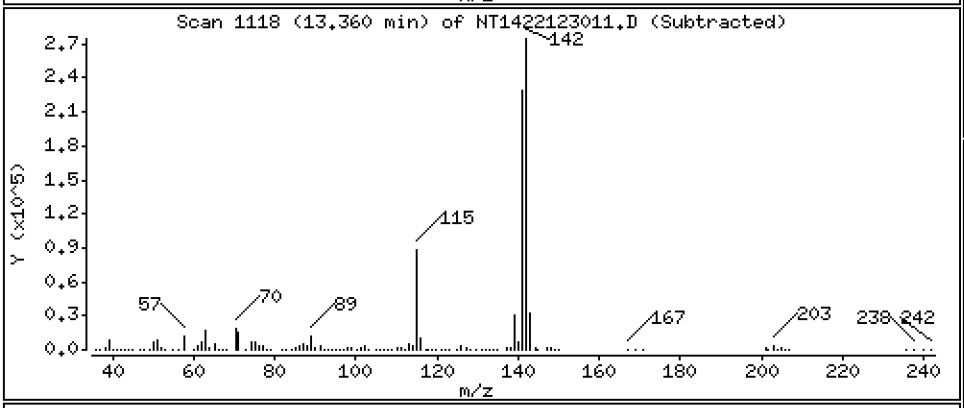
Column diameter: 0.25

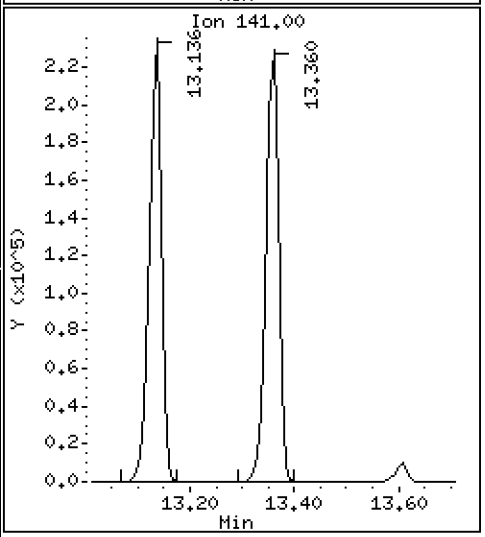
105 1-methylnaphthalene

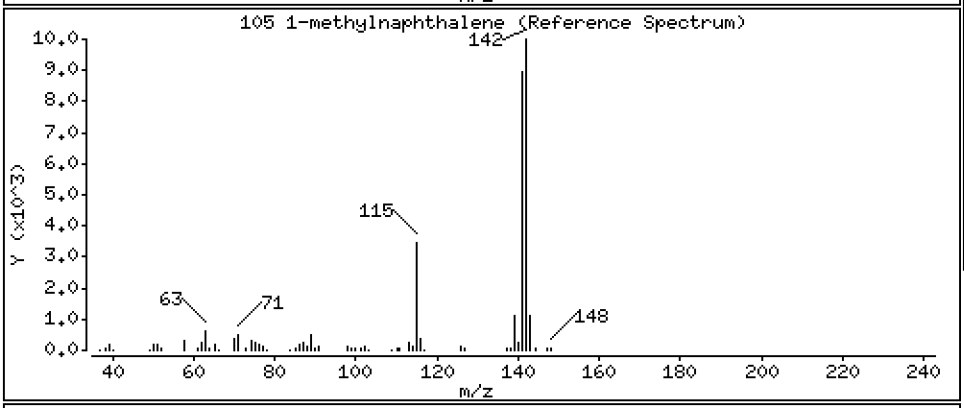
Concentration: 4.671 ug/mL

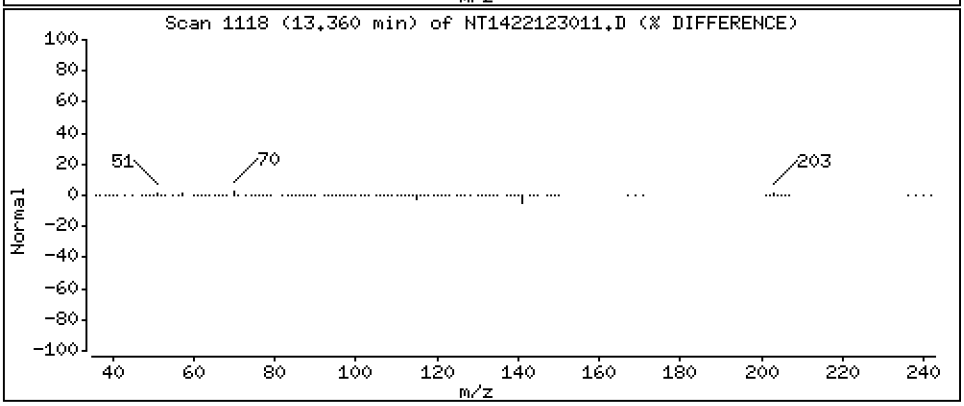












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

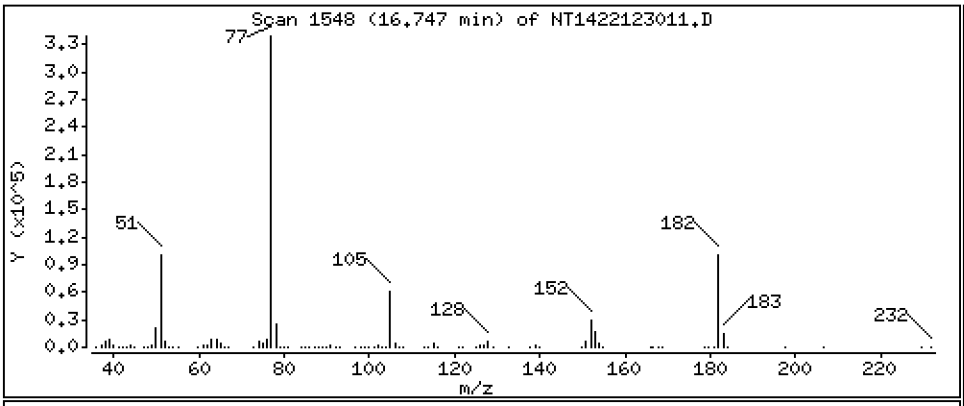
Operator: VTS

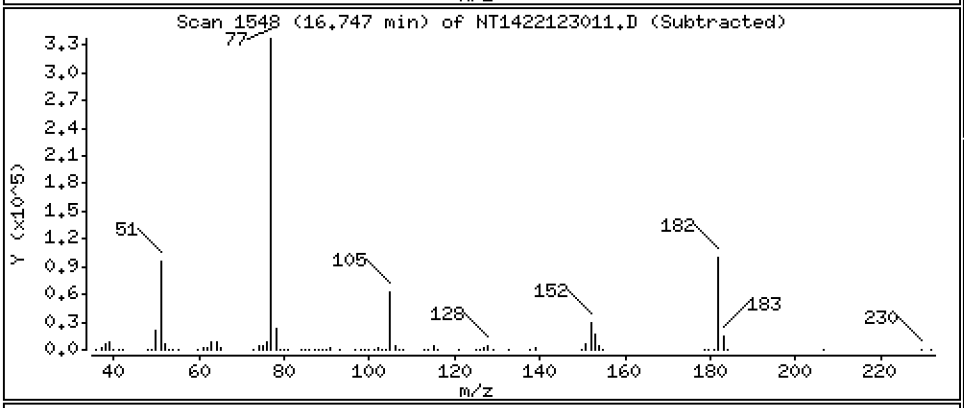
Column phase: ZB-5msi

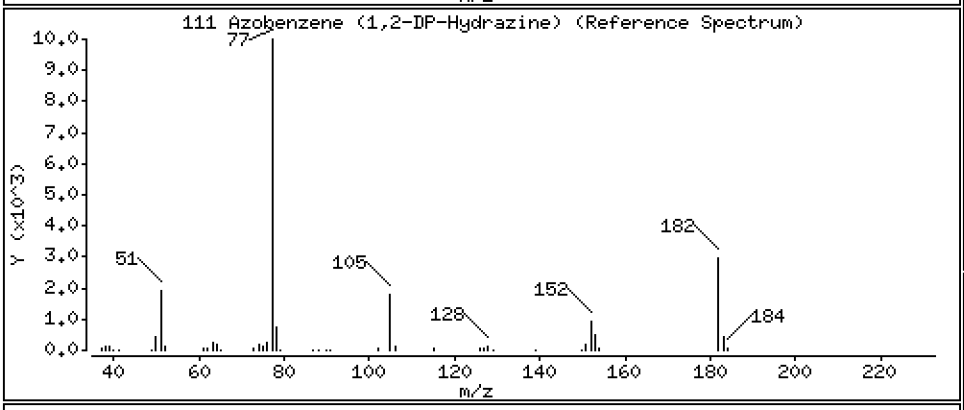
Column diameter: 0.25

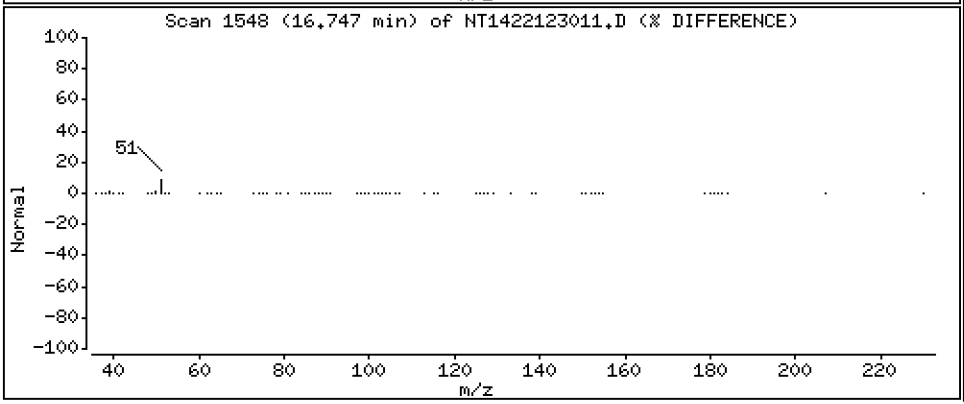
111 Azobenzene (1,2-DP-Hydrazine)

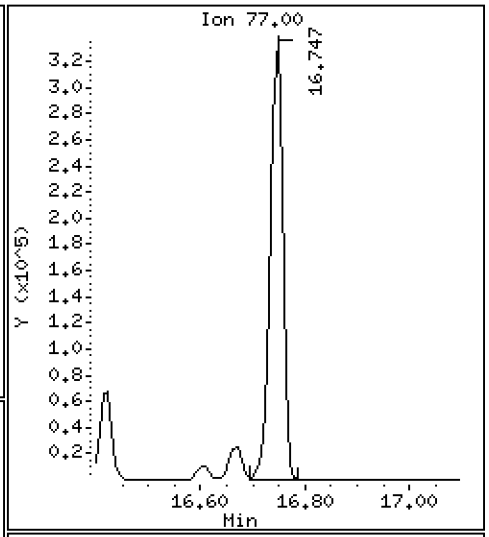
Concentration: 4.893 ug/mL

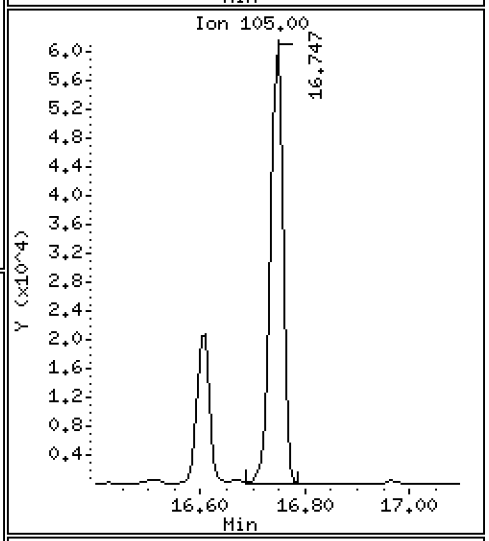


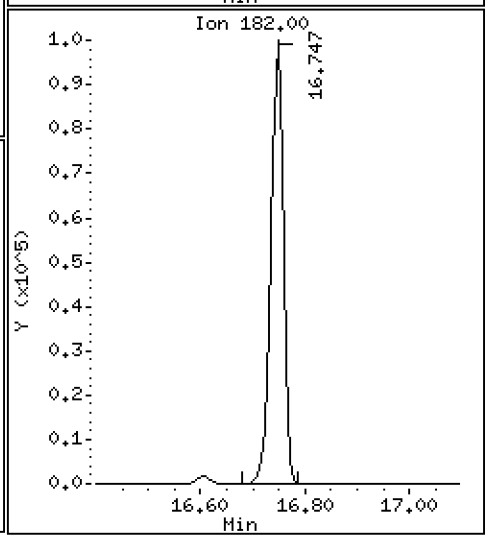












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

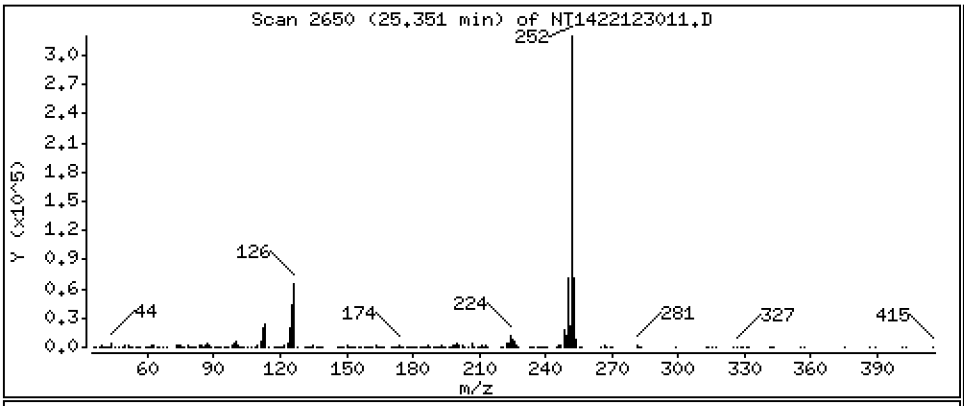
Operator: VTS

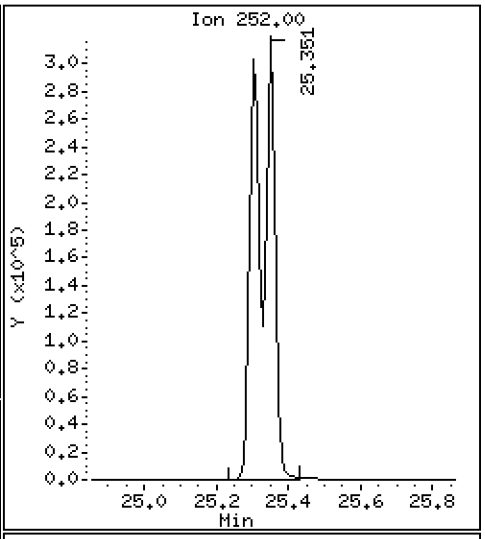
Column phase: ZB-5msi

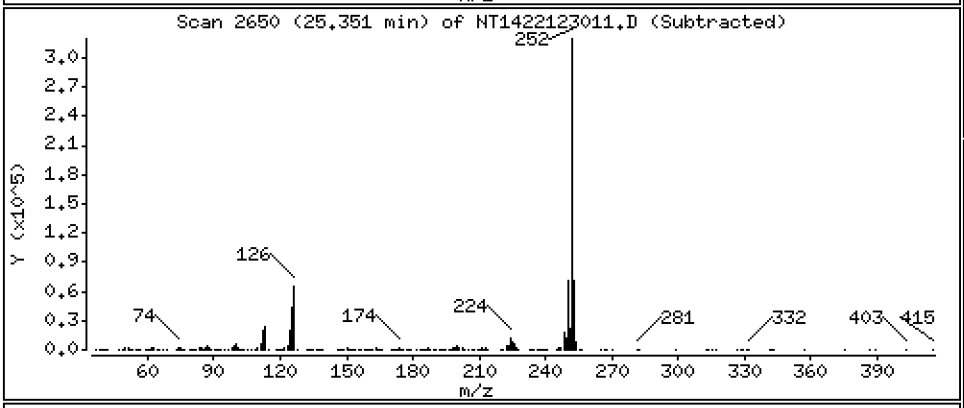
Column diameter: 0.25

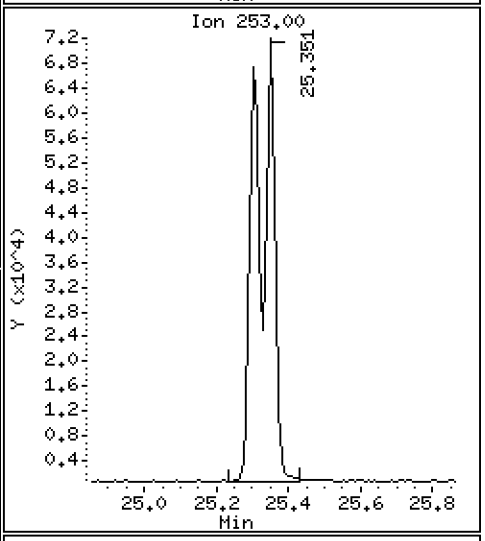
187 Total Benzofluoranthenes

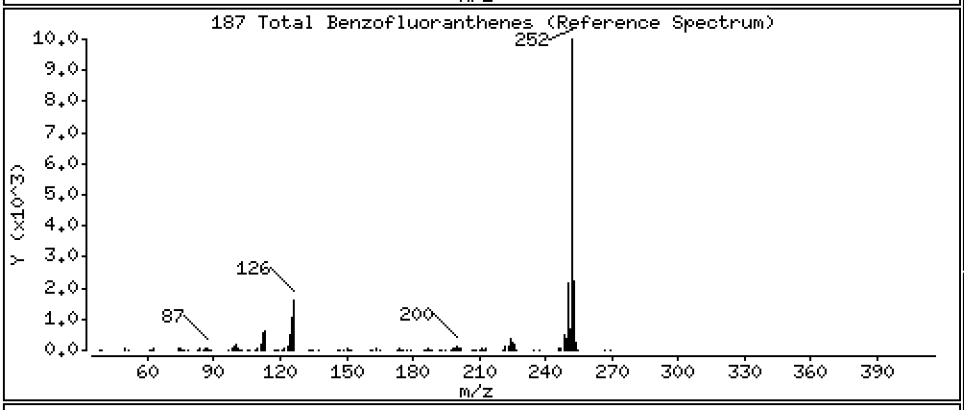
Concentration: 9.972 ug/mL

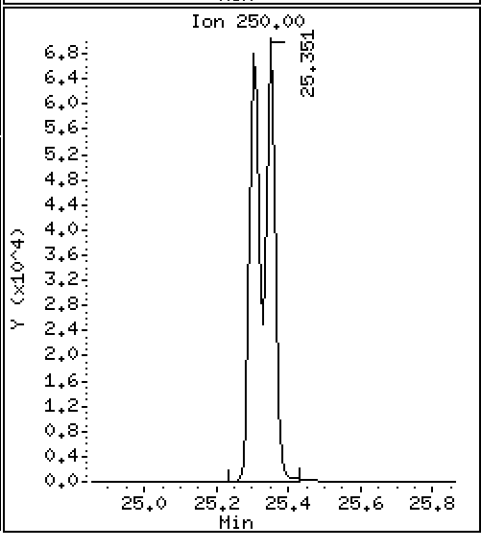


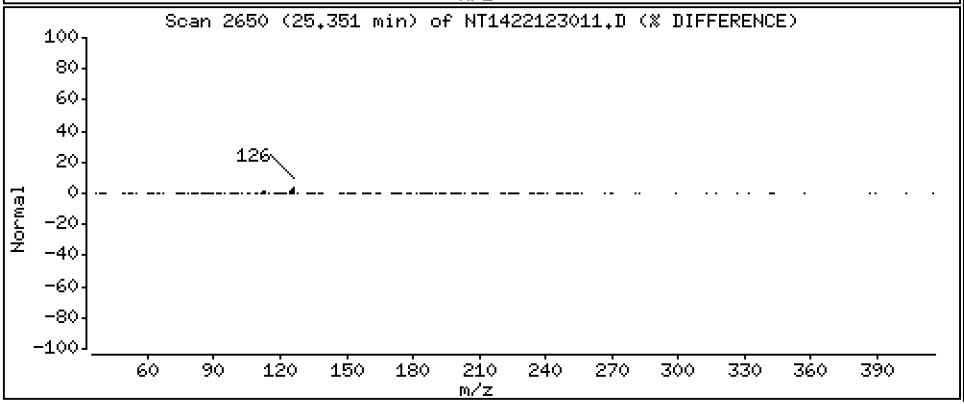












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

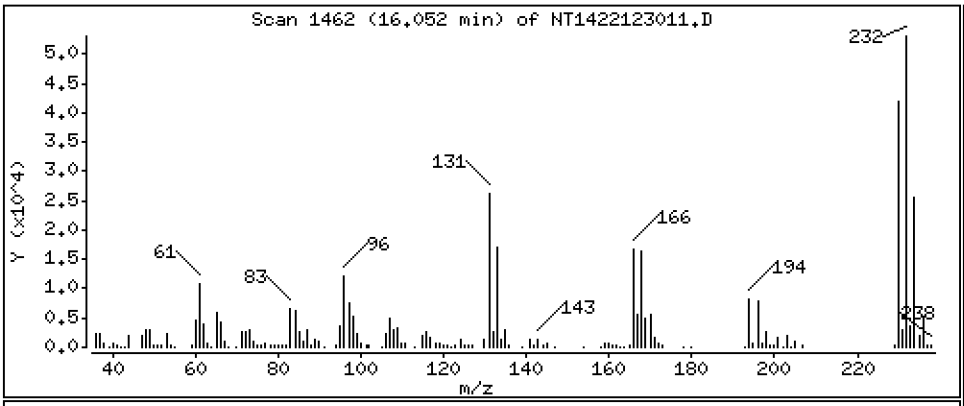
Operator: VTS

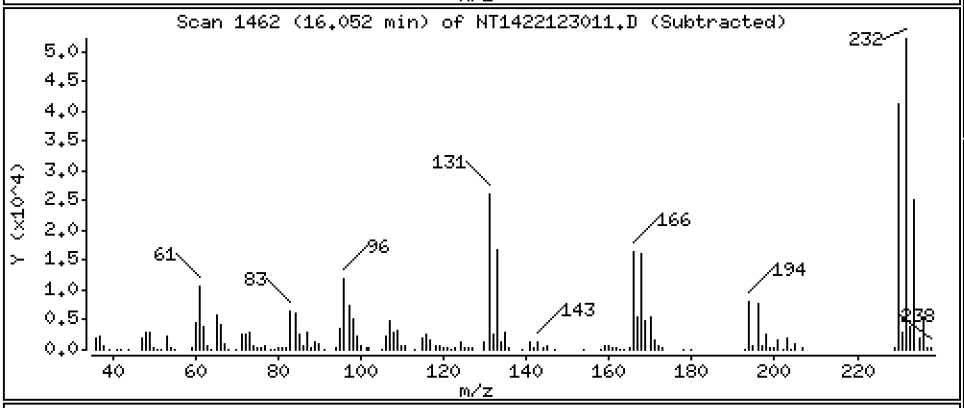
Column phase: ZB-5msi

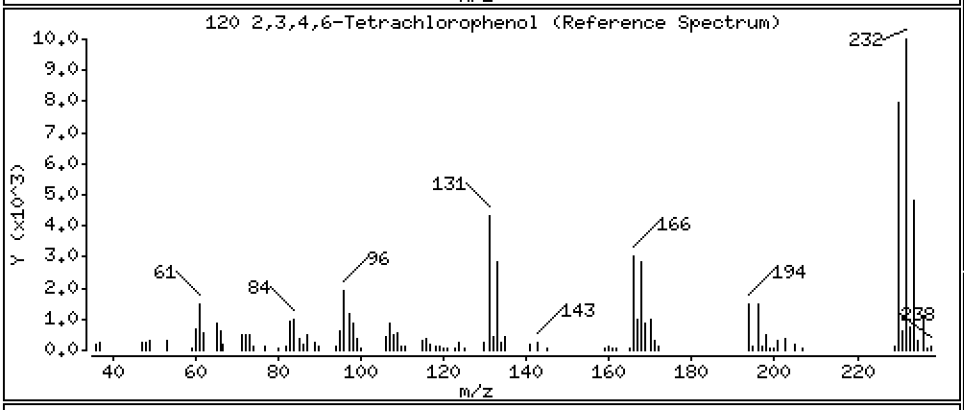
Column diameter: 0.25

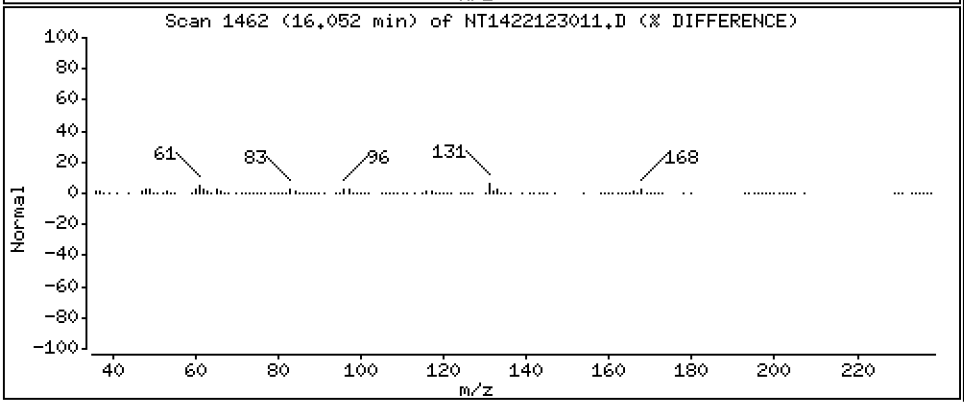
120 2,3,4,6-Tetrachlorophenol

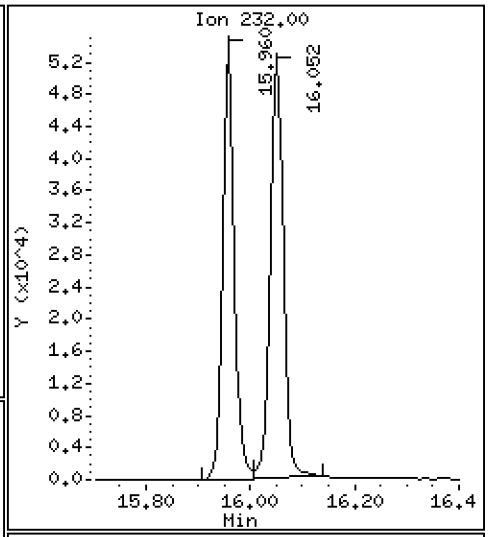
Concentration: 4.079 ug/mL

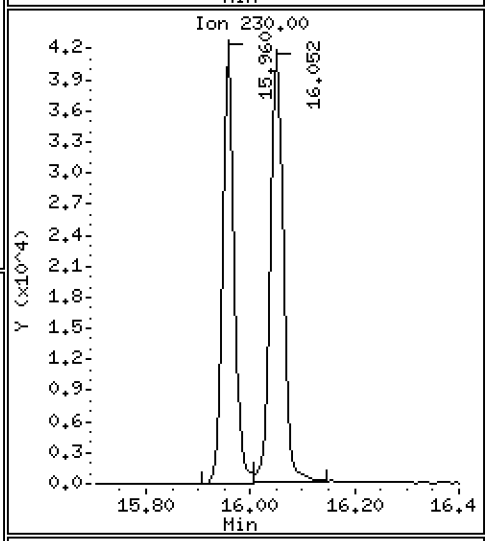


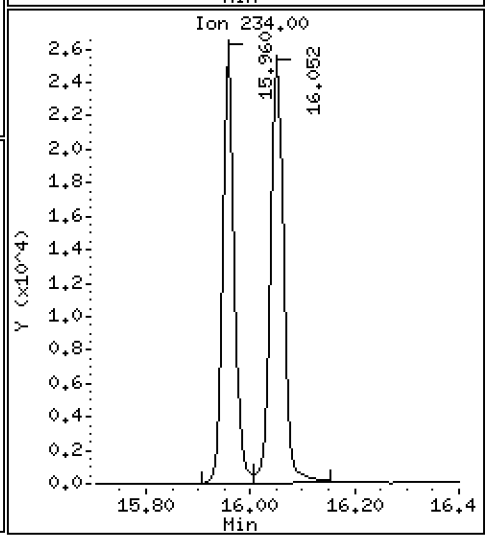












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230.b\NT1422123011.D
Lab Smp Id: SKL0355-ICV1
Inj Date : 30-DEC-2022 13:31 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-SCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Meth Date : 04-Jan-2023 08:09 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.935	6.934	(0.755)	340542	7.31681	7.317
$	2 Phenol-d5	99	8.526	8.526	(0.928)	425409	7.39610	7.396
	3 Phenol	94	8.550	8.549	(0.931)	284374	4.35110	4.351
$	5 2-Chlorophenol-d4	132	8.812	8.820	(0.960)	353505	7.31802	7.318
	4 Bis(2-Chloroethyl)ether	93	8.720	8.719	(0.949)	229408	5.09546	5.095
	6 2-Chlorophenol	128	8.843	8.843	(0.963)	236672	4.46115	4.461
	7 1,3-Dichlorobenzene	146	9.122	9.121	(0.993)	267449	4.75416	4.754
*	8 1,4-Dichlorobenzene-d4	152	9.184	9.183	(1.000)	145276	4.00000	
	9 1,4-Dichlorobenzene	146	9.215	9.214	(1.003)	254370	4.77289	4.773
$	10 1,2-Dichlorobenzene-d4	152	9.548	9.548	(1.040)	157368	4.76640	4.766
	12 1,2-Dichlorobenzene	146	9.572	9.571	(1.042)	249154	4.76694	4.767
	11 Benzyl alcohol	108	9.447	9.447	(1.029)	144889	4.97978	4.980
	14 2,2'-oxybis(1-Chloropropane)	121	9.758	9.758	(1.063)	78691	5.19294	5.193
	13 2-Methylphenol	108	9.673	9.672	(1.053)	186498	3.92700	3.927
	17 Hexachloroethane	117	10.177	10.177	(1.108)	96618	4.92918	4.929
	16 N-Nitroso-di-n-propylamine	70	10.014	10.014	(1.090)	148366	5.12841	5.128
	15 4-Methylphenol	108	9.952	9.944	(1.084)	206520	4.12221	4.122
$	18 Nitrobenzene-d5	82	10.278	10.285	(0.879)	222732	4.86182	4.862
	19 Nitrobenzene	77	10.317	10.316	(0.883)	222014	4.87964	4.880
	20 Isophorone	82	10.767	10.774	(0.921)	402784	6.94605	6.946
	21 2-Nitrophenol	139	10.953	10.953	(0.937)	131718	4.55573	4.556
	22 2,4-Dimethylphenol	107	11.000	10.999	(0.941)	173928	3.66274	3.663
	23 Bis(2-Chloroethoxy)methane	93	11.201	11.201	(0.958)	255794	5.67041	5.670
	24 Benzoic acid	105	11.155	11.201	(0.954)	187105	6.38476	6.385
	25 2,4-Dichlorophenol	162	11.403	11.410	(0.976)	175656	4.38838	4.388
	26 1,2,4-Trichlorobenzene	180	11.604	11.604	(0.993)	197978	4.57428	4.574
*	27 Naphthalene-d8	136	11.689	11.688	(1.000)	542519	4.00000	
	28 Naphthalene	128	11.727	11.735	(1.003)	642406	4.81161	4.812
	29 4-Chloroaniline	127	11.851	11.858	(1.014)	211901	3.84856	3.849
	30 Hexachlorobutadiene	225	12.098	12.098	(1.035)	103565	4.82279	4.823
	31 4-Chloro-3-methylphenol	107	12.810	12.818	(1.096)	170811	4.52201	4.522
	32 2-Methylnaphthalene	142	13.135	13.135	(1.124)	452041	4.61574	4.616
	33 Hexachlorocyclopentadiene	237	13.607	13.607	(0.888)	112264	5.08058	5.081

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.754	13.754	(0.897)	107518	4.40679	4.407
	35	2,4,5-Trichlorophenol	196	13.824	13.824	(0.902)	120450	4.27752	4.278
$	36	2-Fluorobiphenyl	172	13.917	13.916	(0.908)	473396	4.81670	4.817
	37	2-Chloronaphthalene	162	14.134	14.133	(0.922)	397460	4.75373	4.754
	38	2-Nitroaniline	65	14.381	14.389	(0.938)	110847	5.04270	5.043
	39	Dimethylphthalate	163	14.815	14.822	(0.967)	414043	5.02258	5.023
	40	Acenaphthylene	152	15.008	15.008	(0.979)	637390	4.99964	5.000
	41	2,6-Dinitrotoluene	165	14.954	14.954	(0.976)	95155	5.11473	5.115
*	42	Acenaphthene-d10	164	15.325	15.325	(1.000)	292314	4.00000	
	43	3-Nitroaniline	138	15.233	15.240	(0.994)	115042	5.08768	5.088
	44	Acenaphthene	153	15.387	15.394	(1.004)	388683	4.91555	4.916
	45	2,4-Dinitrophenol	184	15.449	15.456	(1.008)	32313	2.03614	2.036
	46	Dibenzofuran	168	15.720	15.719	(1.026)	558398	4.70917	4.709
	47	4-Nitrophenol	109	15.542	15.549	(1.014)	44501	4.07655	4.077
	48	2,4-Dinitrotoluene	165	15.766	15.765	(1.029)	126494	4.95564	4.956
	50	Diethylphthalate	149	16.276	16.283	(1.062)	599841	5.35338	5.353
	49	Fluorene	166	16.431	16.438	(1.072)	659773	5.23034	5.230
	51	4-Chlorophenyl-phenylether	204	16.423	16.423	(1.072)	314576	5.09376	5.094
	52	4-Nitroaniline	138	16.508	16.515	(1.077)	130156	4.73349	4.733
	53	4,6-Dinitro-2-methylphenol	198	16.608	16.615	(0.904)	82579	4.08155	4.082
	54	N-Nitrosodiphenylamine	169	16.670	16.669	(0.907)	391689	4.77466	4.775
$	55	2,4,6-Tribromophenol	330	16.963	16.970	(1.107)	103080	7.23936	7.239
	56	4-Bromophenyl-phenylether	248	17.425	17.433	(0.949)	153403	4.93837	4.938
	57	Hexachlorobenzene	284	17.750	17.749	(0.966)	155193	4.55261	4.553
	58	Pentachlorophenol	266	18.098	18.106	(0.985)	57071	3.79567	3.796
*	59	Phenanthrene-d10	188	18.369	18.376	(1.000)	478070	4.00000	
	60	Phenanthrene	178	18.423	18.423	(1.003)	594211	4.76715	4.767
	61	Anthracene	178	18.516	18.516	(1.008)	520344	4.37286	4.373
	62	Carbazole	167	18.833	18.841	(1.025)	531516	4.62047	4.620
	63	Di-n-butylphthalate	149	19.630	19.630	(1.069)	666827	4.93141	4.931
	64	Fluoranthene	202	20.798	20.806	(0.888)	676060	5.09000	5.090
	65	Pyrene	202	21.224	21.231	(0.906)	701324	5.02201	5.022
$	66	Terphenyl-d14	244	21.503	21.510	(0.918)	476897	4.81614	4.816
	67	Butylbenzylphthalate	149	22.424	22.423	(0.958)	268323	5.00461	5.005
	68	Benzo(a)anthracene	228	23.384	23.384	(0.999)	611047	4.88991	4.890
*	69	Chrysene-d12	240	23.415	23.415	(1.000)	412507	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.330	23.329	(0.996)	352190	9.20673	9.207
	71	Chrysene	228	23.454	23.461	(1.002)	562245	4.76333	4.763
	72	bis(2-Ethylhexyl)phthalate	149	23.446	23.446	(0.959)	386843	5.89917	5.899
*	134	Di-n-octylphthalate-d4	153	24.437	24.437	(1.000)	590464	4.00000	
	73	Di-n-octylphthalate	149	24.445	24.452	(1.000)	720505	5.08341	5.083
	74	Benzo(b)fluoranthene	252	25.304	25.311	(0.969)	583736	4.89261	4.893
	75	Benzo(k)fluoranthene	252	25.350	25.358	(0.971)	618510	5.09341	5.093
	76	Benzo(a)pyrene	252	25.985	25.985	(0.996)	505003	5.09168	5.092
*	77	Perylene-d12	264	26.102	26.101	(1.000)	379639	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.861	28.869	(1.106)	578206	5.12831	5.128
	79	Dibenzo(a,h)anthracene	278	28.869	28.876	(1.106)	487403	5.08716	5.087
	80	Benzo(g,h,i)perylene	276	29.677	29.684	(1.137)	475788	5.03737	5.037
	90	N-Nitrosodimethylamine	74	4.749	4.749	(0.517)	165220	5.15442	5.154
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	21.023	21.030	(0.898)	511157	9.70402	9.704
	103	Pyridine	79	4.788	4.780	(0.521)	273100	2.68129	2.681
	105	1-methylnaphthalene	142	13.360	13.359	(1.143)	439557	4.67125	4.671
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.747	16.746	(1.093)	531158	4.89310	4.893

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.350	25.358	(0.971)	1150223	9.97185	9.972
120 2,3,4,6-Tetrachlorophenol	232	16.052	16.051	(1.047)	86828	4.07937	4.079

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123011.D
Lab Smp Id: SKL0355-ICV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Misc Info:

Calibration Date: 30-DEC-2022
Calibration Time: 08:06
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	151013	75507	302026	145276	-3.80
27 Naphthalene-d8	553510	276755	1107020	542519	-1.99
42 Acenaphthene-d10	305411	152706	610822	292314	-4.29
59 Phenanthrene-d10	491708	245854	983416	478070	-2.77
69 Chrysene-d12	424740	212370	849480	412507	-2.88
134 Di-n-octylphthala	684951	342476	1369902	590464	-13.79
77 Perylene-d12	395150	197575	790300	379639	-3.93

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.18	8.68	9.68	9.18	0.00
27 Naphthalene-d8	11.69	11.19	12.19	11.69	0.00
42 Acenaphthene-d10	15.33	14.83	15.83	15.33	0.00
59 Phenanthrene-d10	18.38	17.88	18.88	18.37	-0.04
69 Chrysene-d12	23.42	22.92	23.92	23.42	0.00
134 Di-n-octylphthala	24.44	23.94	24.94	24.44	0.00
77 Perylene-d12	26.10	25.60	26.60	26.10	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123011.D

Lab ID: SKL0355-ICV1
nt14.i, 20221230.b\ABN.m,   30-DEC-2022 13:31

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1422123002.D

On Column LOD for nt14.i, 20221230.b\ABN.m, ICAL.sub = 0.0000

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

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123014.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/30/22
Lab Sample ID:	SKL0355-ICV2	Injection Time:	15:53
Sequence Name:	ABN 5		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Phenol	A	5.0000	4.8	1.7995200	1.7186490		-4.5	+/-20
bis(2-chloroethyl) ether	A	5.0000	4.7	1.2396270	1.1687670		-5.7	+/-20
2-Chlorophenol	A	5.0000	4.7	1.4607190	1.3681350		-6.3	+/-20
1,3-Dichlorobenzene	A	5.0000	4.6	1.5489360	1.4109450		-8.9	+/-20
1,4-Dichlorobenzene	A	5.0000	4.6	1.4674070	1.3357980		-9.0	+/-20
1,2-Dichlorobenzene	A	5.0000	4.6	1.4391100	1.3306780		-7.5	+/-20
Benzyl Alcohol	A	5.0000	5.0	0.8011083	0.7946779		-0.8	+/-20
2,2'-Oxybis(1-chloropropane)	A	5.0000	3.7	0.4172325	0.3114626		-25.4	+/-20
2-Methylphenol	A	5.0000	4.9	1.3076140	1.2704620		-2.8	+/-20
Hexachloroethane	A	5.0000	4.8	0.5396966	0.5156443		-4.5	+/-20
N-Nitroso-di-n-Propylamine	A	5.0000	5.2	0.7965591	0.8215703		3.1	+/-20
4-Methylphenol	A	5.0000	4.9	1.3794240	1.3507770		-2.1	+/-20
Nitrobenzene	A	5.0000	4.8	0.3354574	0.3249964		-3.1	+/-20
Isophorone	A	5.0000	5.1	0.4275424	0.4360834		2.0	+/-20
2-Nitrophenol	A	5.0000	4.7	0.2064997	0.2006646		-6.0	+/-20
2,4-Dimethylphenol	A	10.000	9.5	0.3501131	0.3313579		-5.4	+/-20
Bis(2-Chloroethoxy)methane	A	5.0000	4.6	0.3325989	0.3091756		-7.0	+/-20
2,4-Dichlorophenol	A	10.000	10.0	0.2951237	0.2957658		0.2	+/-20
1,2,4-Trichlorobenzene	A	5.0000	4.5	0.3191088	0.2849054		-10.7	+/-20
Naphthalene	A	5.0000	4.6	0.9843833	0.9012306		-8.4	+/-20
Benzoic acid	A	20.000	17.4	0.1508906	0.1927720		-13.1	+/-20
4-Chloroaniline	A	10.000	9.7	0.4059568	0.3950751		-2.7	+/-20
Hexachlorobutadiene	A	5.0000	4.5	0.1583286	0.1436317		-9.3	+/-20
4-Chloro-3-Methylphenol	A	10.000	10.0	0.2785027	0.2790104		0.2	+/-20
2-Methylnaphthalene	A	5.0000	4.7	0.7220739	0.6764344		-6.3	+/-20
Hexachlorocyclopentadiene	A	10.000	9.7	0.3023695	0.2926780		-3.2	+/-20
2,4,6-Trichlorophenol	A	10.000	9.8	0.3338641	0.3282511		-1.7	+/-20
2,4,5-Trichlorophenol	A	10.000	9.9	0.3853234	0.3798122		-1.4	+/-20
2-Chloronaphthalene	A	5.0000	4.6	1.1441150	1.0587470		-7.5	+/-20
2-Nitroaniline	A	10.000	10.7	0.3007956	0.3208828		6.7	+/-20

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123014.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/30/22
Lab Sample ID:	SKL0355-ICV2	Injection Time:	15:53
Sequence Name:	ABN 5		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Acenaphthylene	A	5.0000	4.7	1.7445240	1.6444420		-5.7	+/-20
Dimethylphthalate	A	5.0000	4.7	1.1280520	1.0645420		-5.6	+/-20
2,6-Dinitrotoluene	A	10.000	9.9	0.2545771	0.2527094		-0.7	+/-20
Acenaphthene	A	5.0000	4.6	1.0820160	0.9983132		-7.7	+/-20
3-Nitroaniline	A	10.000	9.9	0.3094189	0.3068867		-0.8	+/-20
2,4-Dinitrophenol	A	20.000	17.6	0.1831718	0.1983905		-11.9	+/-20
Dibenzofuran	A	5.0000	4.5	1.6225950	1.4754640		-9.1	+/-20
4-Nitrophenol	A	10.000	9.4	0.1384031	0.1428400		-5.6	+/-20
2,4-Dinitrotoluene	A	10.000	9.9	0.3492859	0.3453545		-1.1	+/-20
Fluorene	A	5.0000	4.9	1.7261350	1.7055820		-1.2	+/-20
4-Chlorophenylphenyl ether	A	5.0000	4.7	0.8450792	0.7886722		-6.7	+/-20
Diethyl phthalate	A	5.0000	5.0	1.5332690	1.5233580		-0.6	+/-20
4-Nitroaniline	A	10.000	9.6	0.3413732	0.3662170		-3.8	+/-20
4,6-Dinitro-2-methylphenol	A	20.000	19.2	0.1530278	0.1682270		-4.0	+/-20
N-Nitrosodiphenylamine	A	5.0000	4.6	0.6863845	0.6341271		-7.6	+/-20
4-Bromophenyl phenyl ether	A	5.0000	4.6	0.2599074	0.2391345		-8.0	+/-20
Hexachlorobenzene	A	5.0000	4.5	0.2852204	0.2573836		-9.8	+/-20
Pentachlorophenol	A	10.000	8.9	0.1128364	0.1152245		-10.9	+/-20
Phenanthrene	A	5.0000	4.6	1.0429190	0.9576970		-8.2	+/-20
Anthracene	A	5.0000	4.9	0.9956202	0.9715587		-2.4	+/-20
Carbazole	A	5.0000	4.7	0.9624945	0.9004501		-6.4	+/-20
Di-n-Butylphthalate	A	5.0000	4.8	1.0394700	1.0864340		-3.9	+/-20
Fluoranthene	A	5.0000	4.9	1.2879410	1.2525890		-2.7	+/-20
Pyrene	A	5.0000	4.8	1.3541610	1.3113600		-3.2	+/-20
Butylbenzylphthalate	A	5.0000	4.9	0.4650792	0.5059756		-2.6	+/-20
Benzo(a)anthracene	A	5.0000	4.8	1.2117210	1.1621750		-4.1	+/-20
3,3'-Dichlorobenzidine	A	15.000	12.3	0.3709370	0.3029352		-18.3	+/-20
Chrysene	A	5.0000	4.7	1.1445730	1.0736030		-6.2	+/-20
bis(2-Ethylhexyl)phthalate	A	5.0000	5.5	0.4442323	0.4858836		9.4	+/-20
Di-n-Octylphthalate	A	5.0000	4.5	0.9601702	0.8720979		-9.2	+/-20

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123014.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/30/22
Lab Sample ID:	SKL0355-ICV2	Injection Time:	15:53
Sequence Name:	ABN 5		

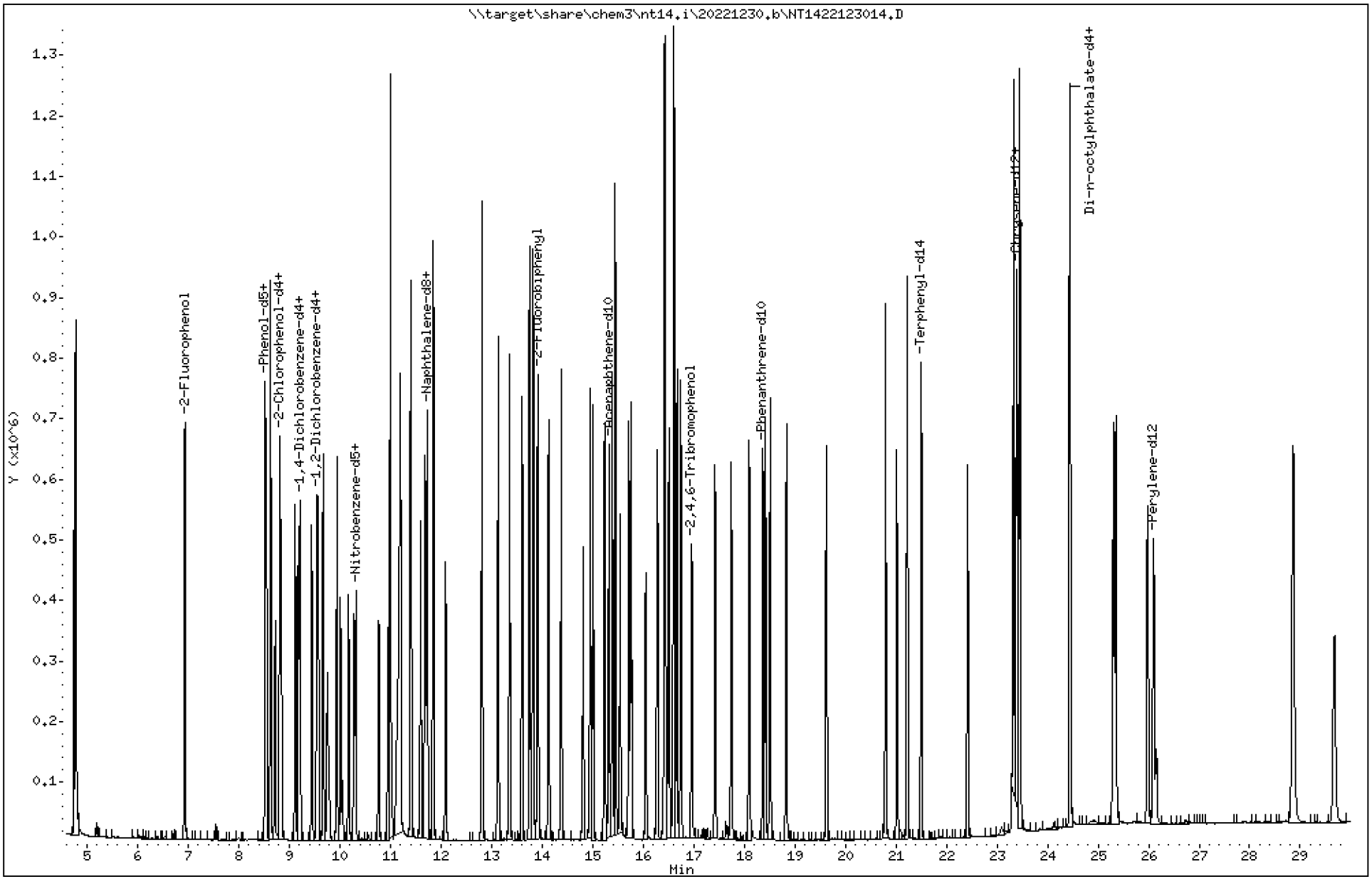
		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Benzofluoranthenes, Total	A	10.000	9.4	1.2153330	1.1416210		-6.1	+/-20
Benzo(a)pyrene	A	5.0000	4.8	1.0450150	1.0073260		-3.6	+/-20
Indeno(1,2,3-cd)pyrene	A	5.0000	4.9	1.1879490	1.1725880		-1.3	+/-20
Dibenzo(a,h)anthracene	A	5.0000	4.8	1.0094890	0.9662532		-4.3	+/-20
Benzo(g,h,i)perylene	A	5.0000	4.9	0.9951726	0.9750521		-2.0	+/-20
1-Methylnaphthalene	A	5.0000	4.7	0.6937882	0.6529617		-5.9	+/-20
2-Fluorophenol	A	7.5000	7.37	1.2814900	1.2598380		-1.7	+/-20
Phenol-d5	A	7.5000	7.46	1.5836890	1.5743540		-0.6	+/-20
2-Chlorophenol-d4	A	7.5000	7.24	1.3300510	1.2841510		-3.5	+/-20
1,2-Dichlorobenzene-d4	A	5.0000	4.68	0.9090592	0.8501916		-6.5	+/-20
Nitrobenzene-d5	A	5.0000	5.01	0.3377760	0.3384311		0.2	+/-20
2-Fluorobiphenyl	A	5.0000	4.64	1.3448860	1.2475250		-7.2	+/-20
2,4,6-Tribromophenol	A	7.5000	6.82	0.1844845	0.1766959		-9.1	+/-20
p-Terphenyl-d14	A	5.0000	4.75	0.9601842	0.9117019		-5.0	+/-20
1,4-Dichlorobenzene-d4	A	4.0000	4.0	37290.1800	1.0000		0.0	
Naphthalene-d8	A	4.0000	4.0	136223.9000	1.0000		0.0	
Acenaphthene-d10	A	4.0000	4.0	73667.8600	1.0000		0.0	
Phenanthrene-d10	A	4.0000	4.0	117990.4000	1.0000		0.0	
Chrysene-d12	A	4.0000	4.0	101321.8000	1.0000		0.0	
Di-n-Octylphthalate-d4	A	4.0000	4.0	149451.2000	1.0000		0.0	
Perylene-d12	A	4.0000	4.0	93469.2100	1.0000		0.0	

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123014.D
Date : 30-DEC-2022 15:53
Client ID:
Sample Info: SKL0355-ICV2

Instrument: nt14.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

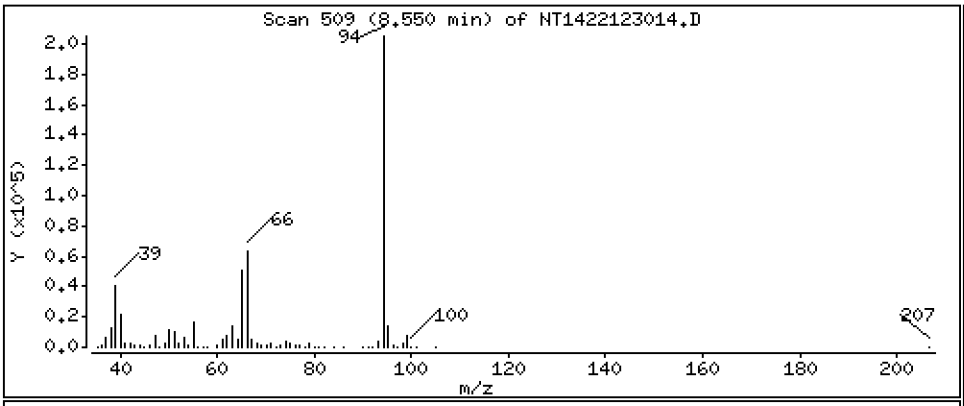
Operator: VTS

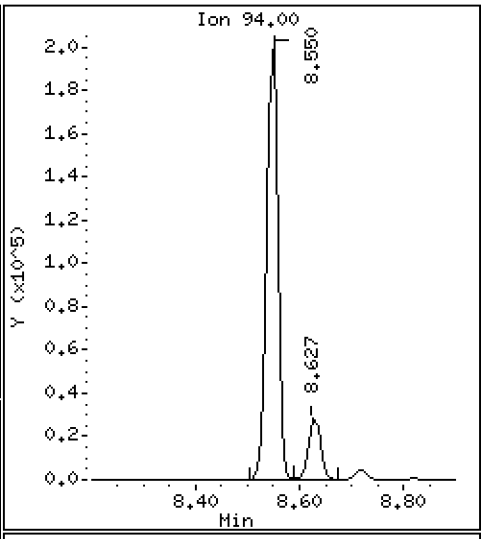
Column phase: ZB-5msi

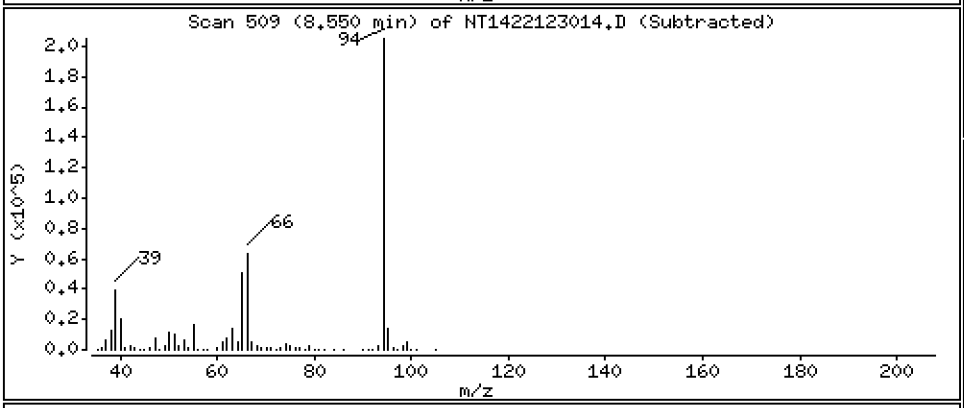
Column diameter: 0.25

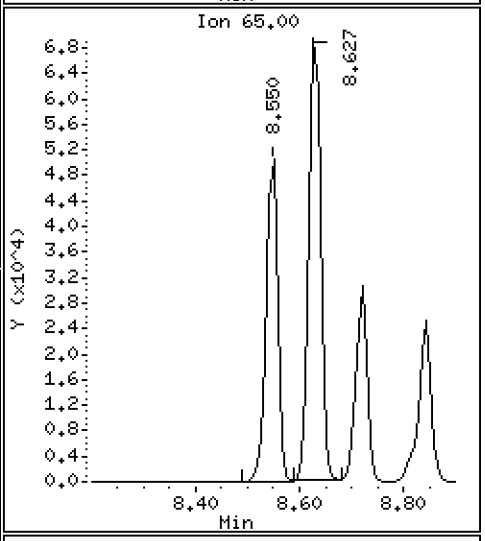
3 Phenol

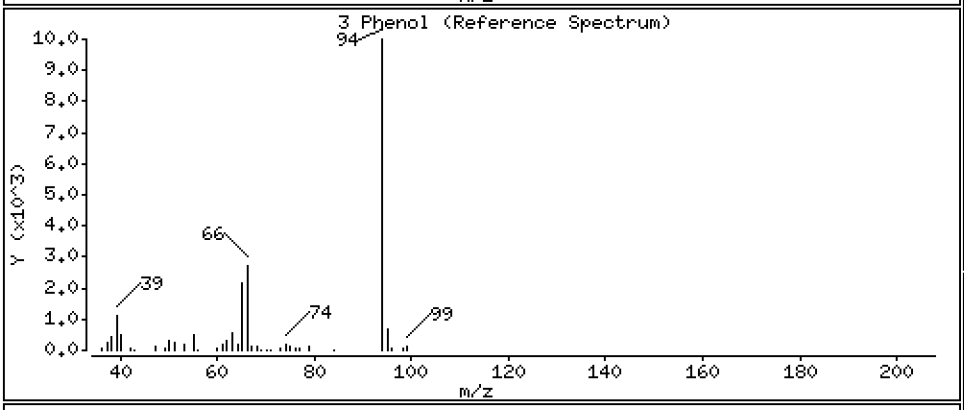
Concentration: 4.775 ug/mL

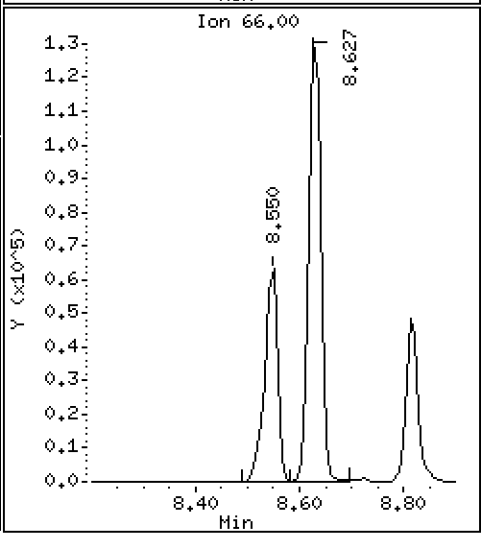


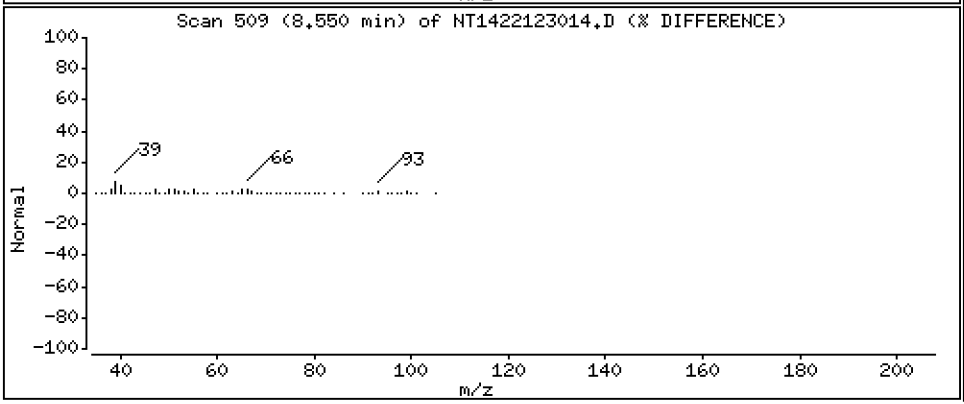












Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123014.D

Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

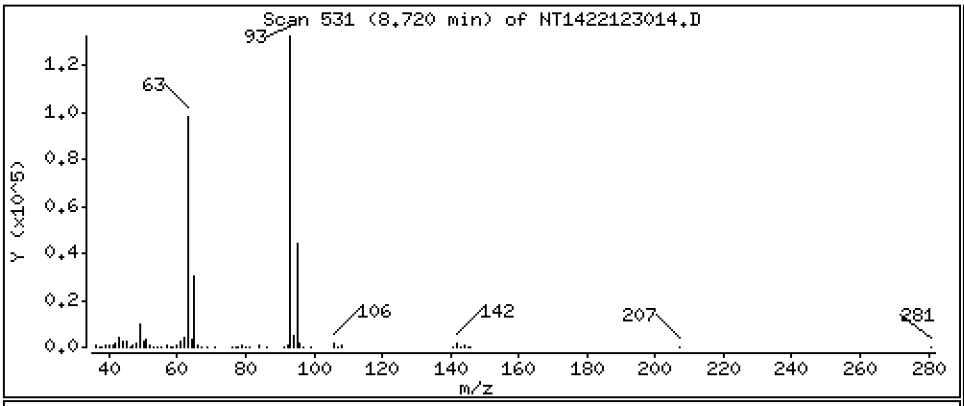
Operator: VTS

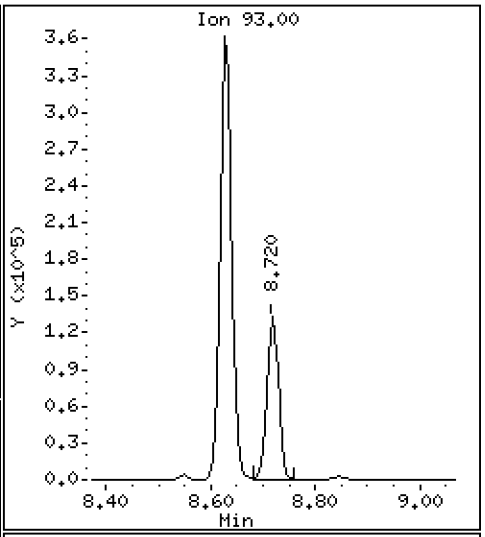
Column phase: ZB-5msi

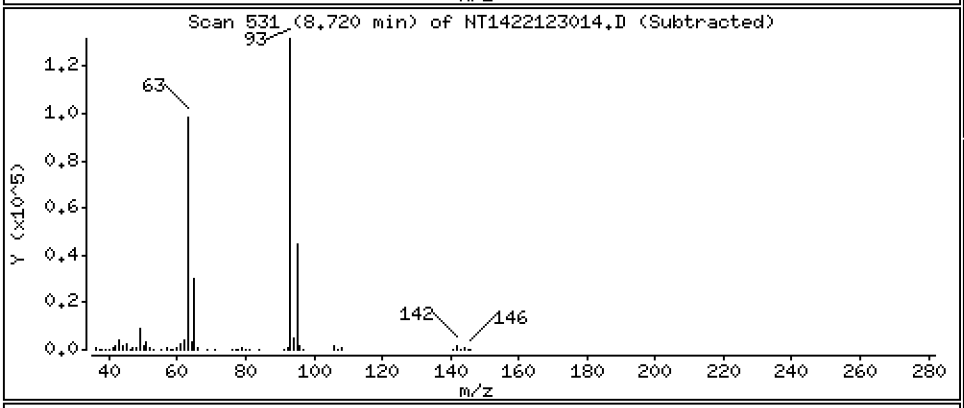
Column diameter: 0.25

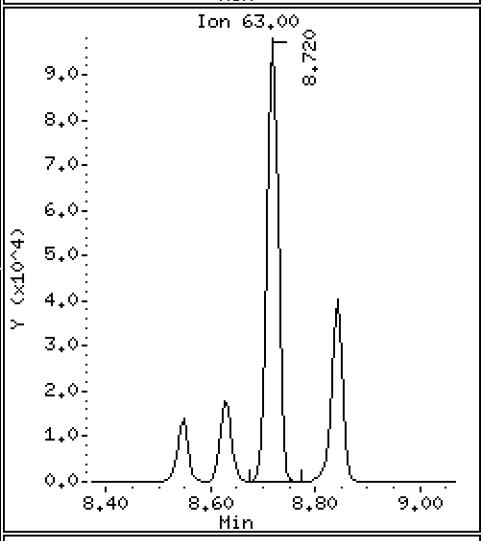
4 Bis(2-Chloroethyl)ether

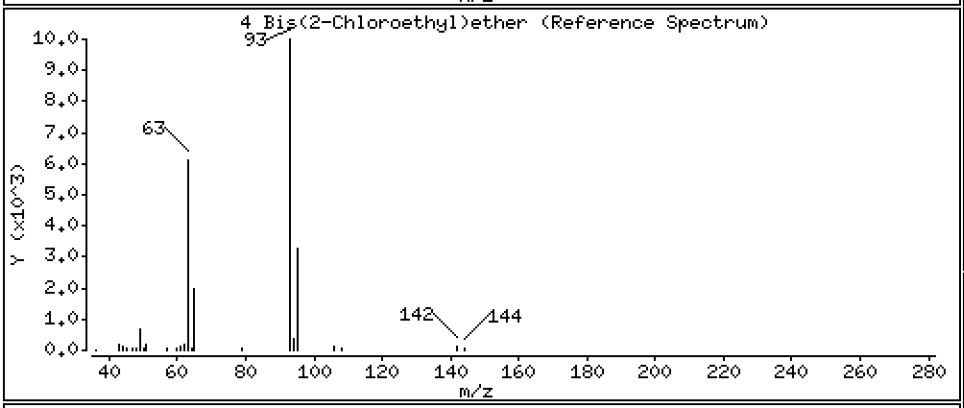
Concentration: 4.714 ug/mL

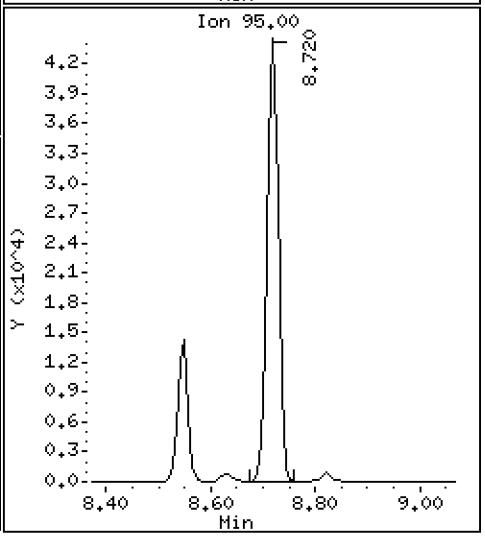


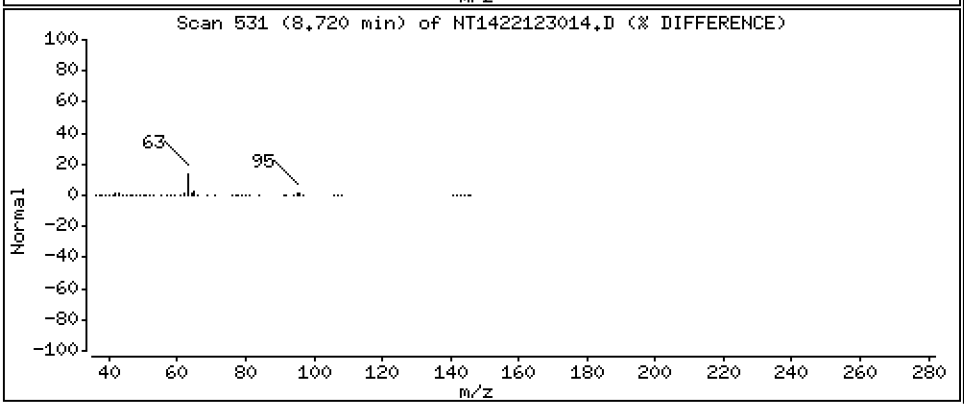












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

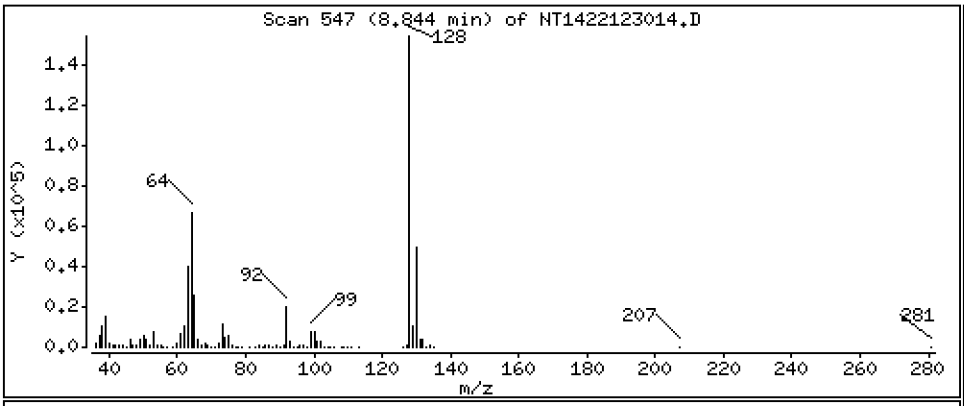
Operator: VTS

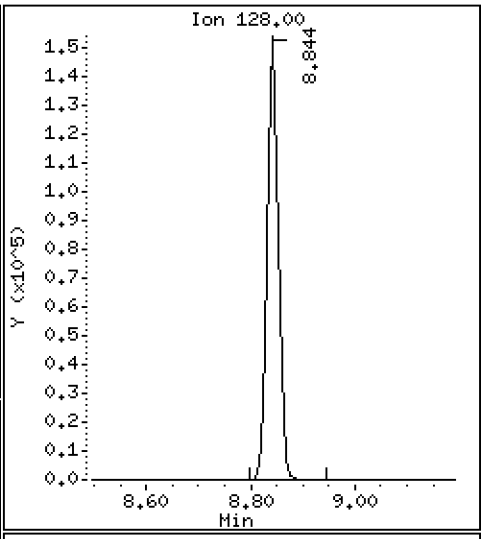
Column phase: ZB-5msi

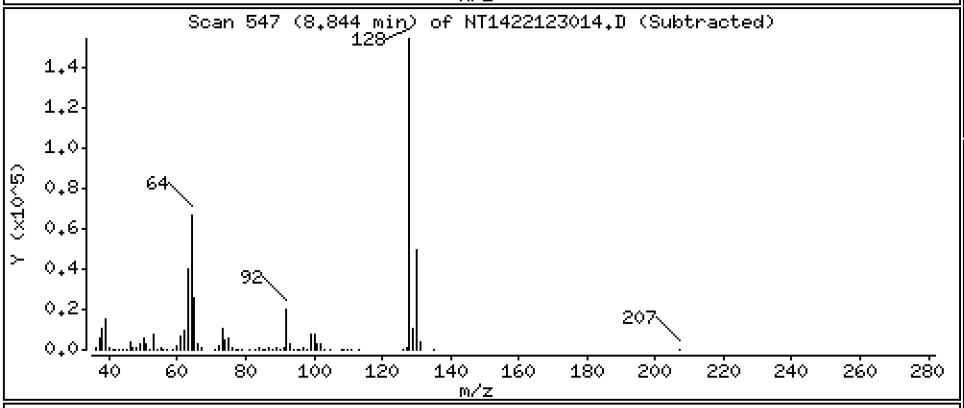
Column diameter: 0.25

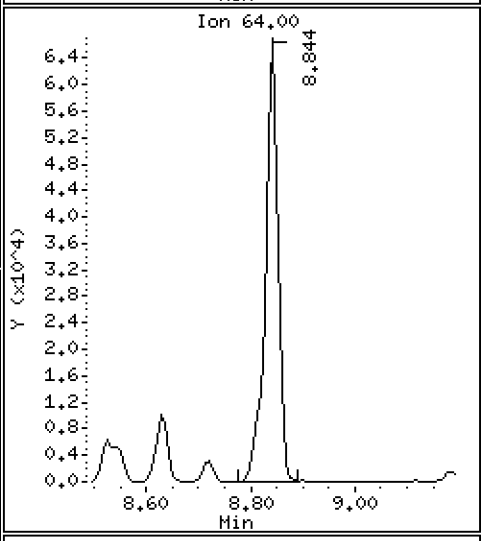
6 2-Chlorophenol

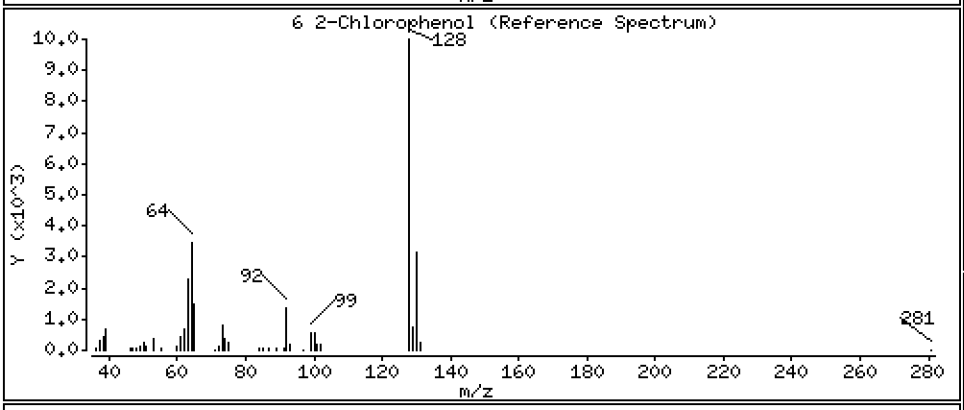
Concentration: 4.683 ug/mL

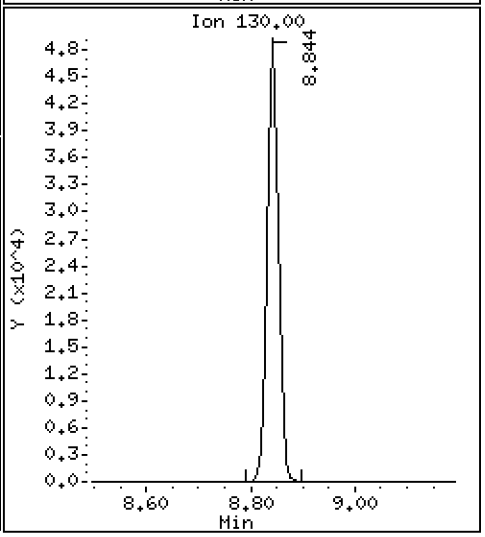


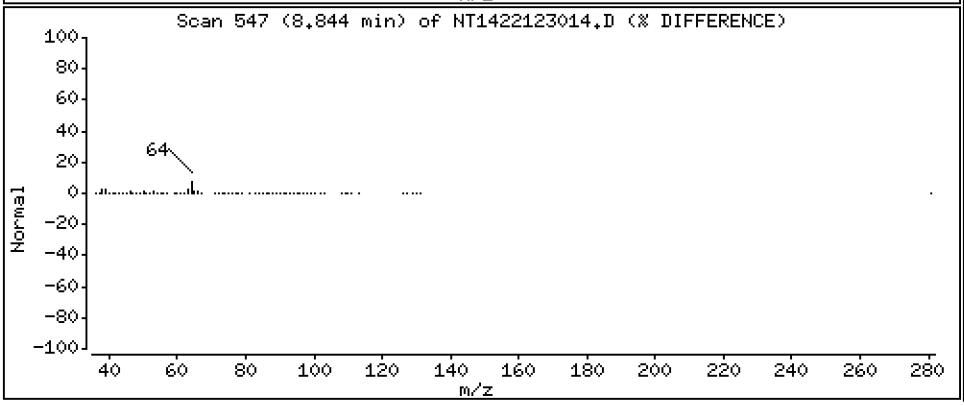












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

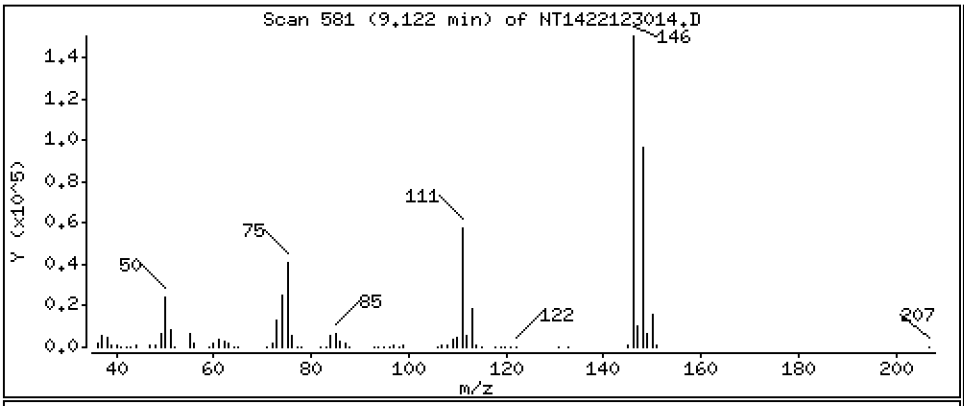
Operator: VTS

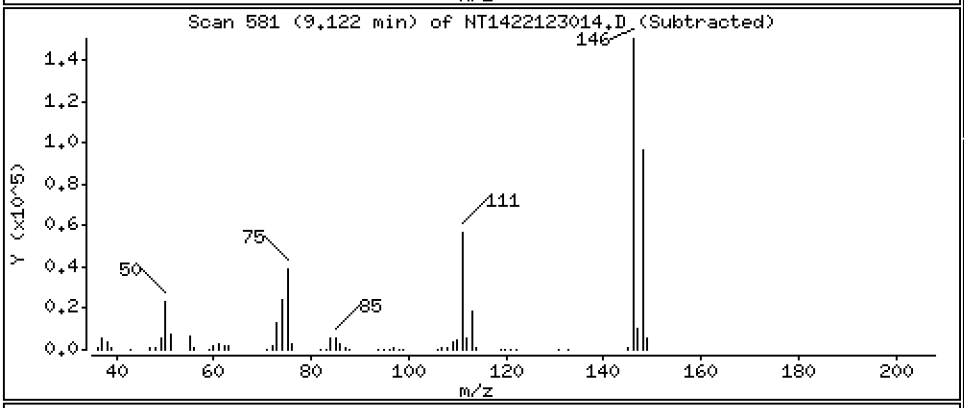
Column phase: ZB-5msi

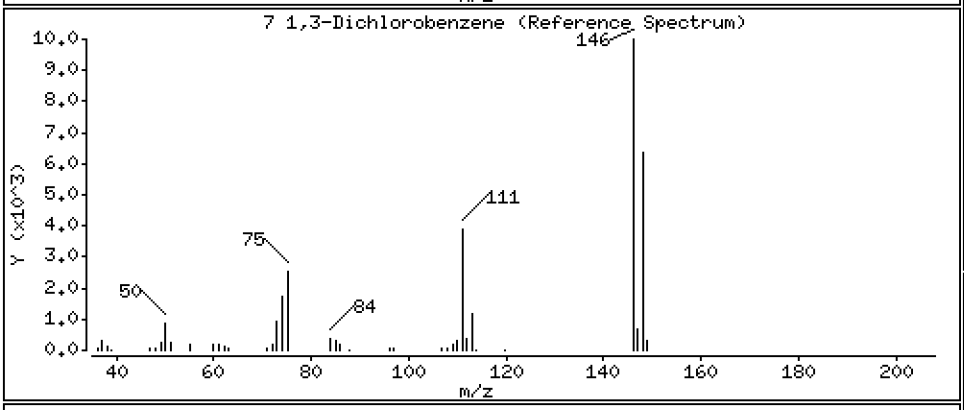
Column diameter: 0.25

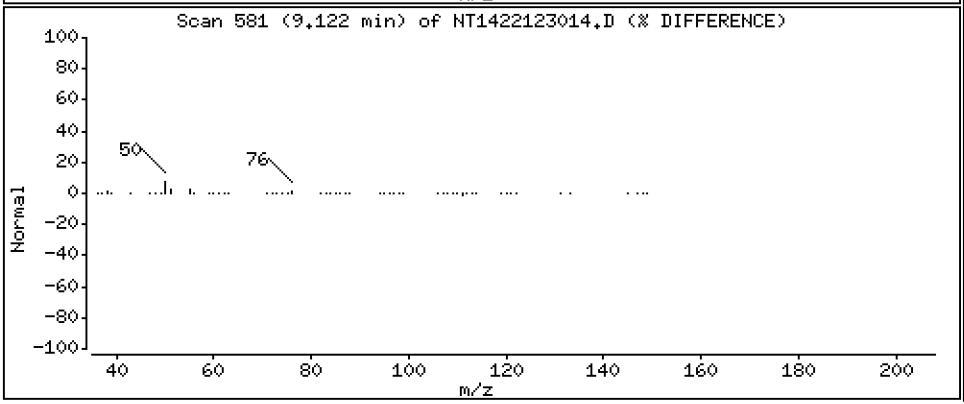
7 1,3-Dichlorobenzene

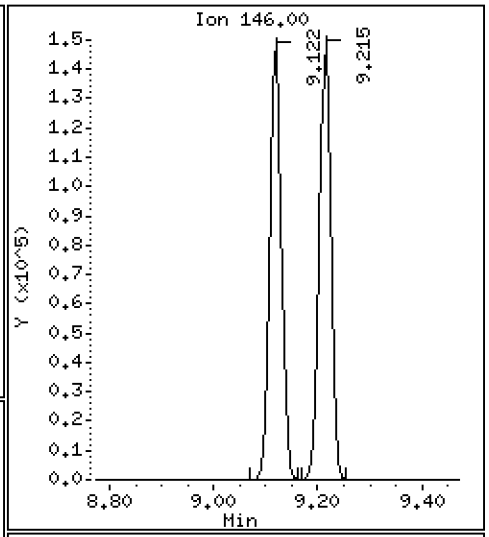
Concentration: 4.555 ug/mL

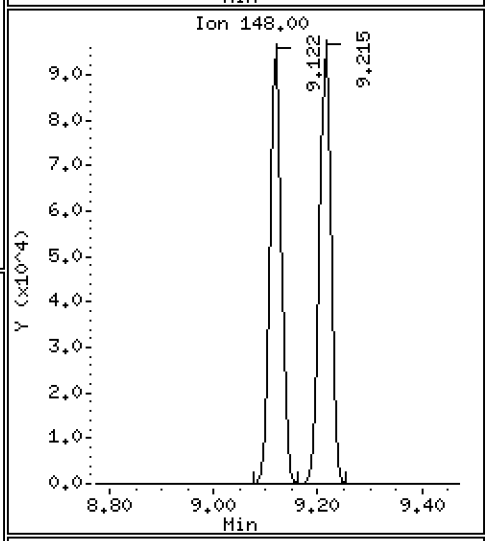


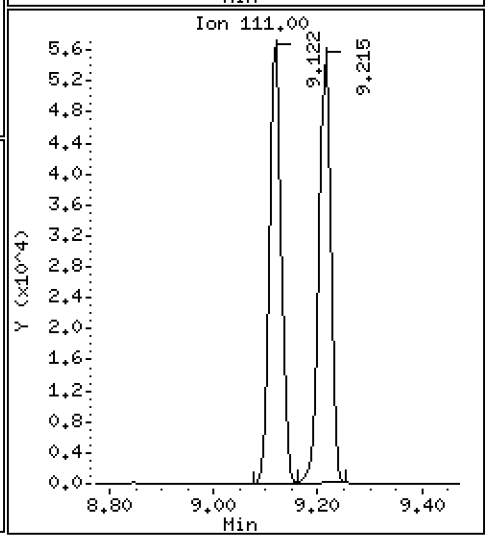












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

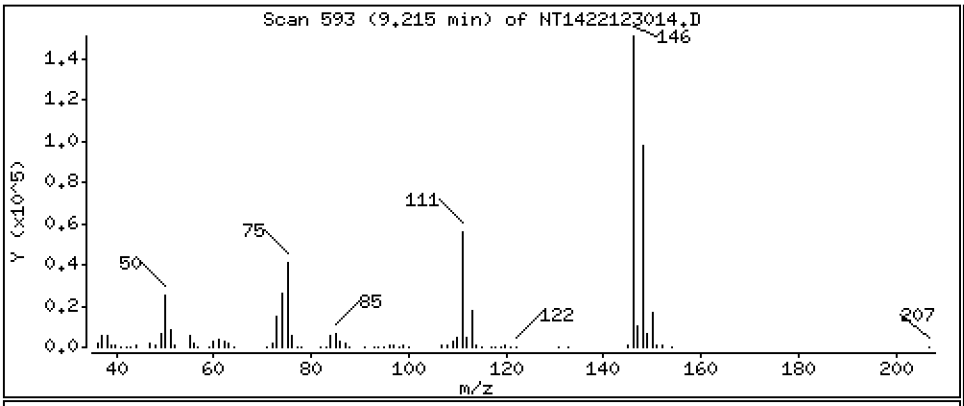
Operator: VTS

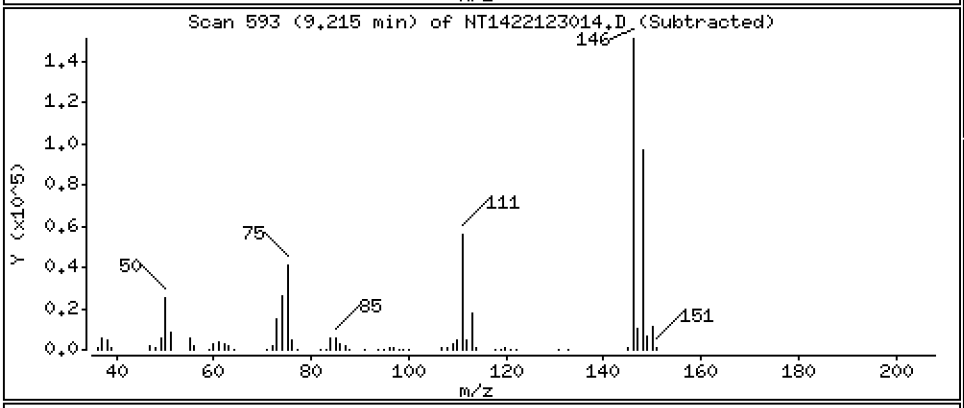
Column phase: ZB-5msi

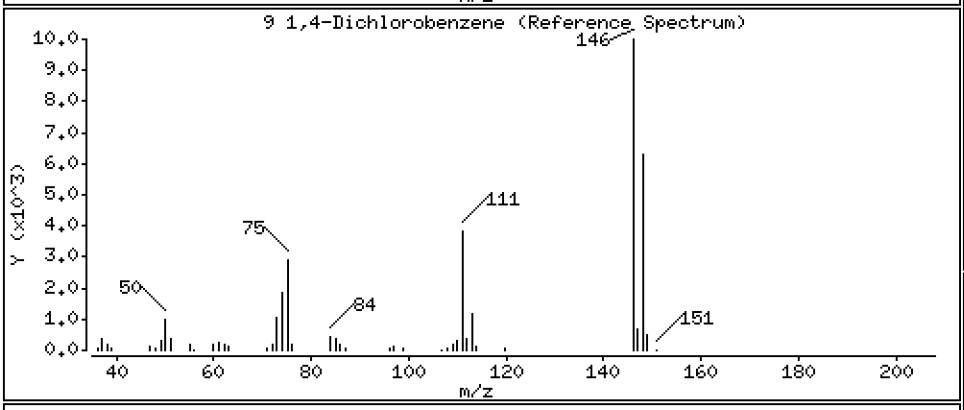
Column diameter: 0.25

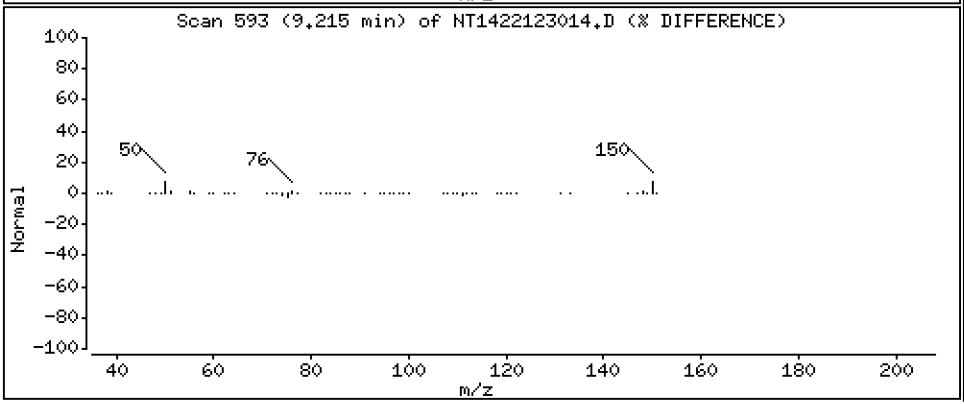
9 1,4-Dichlorobenzene

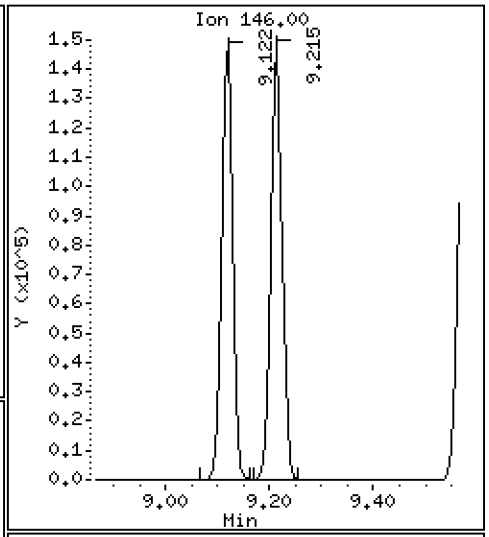
Concentration: 4.552 ug/mL

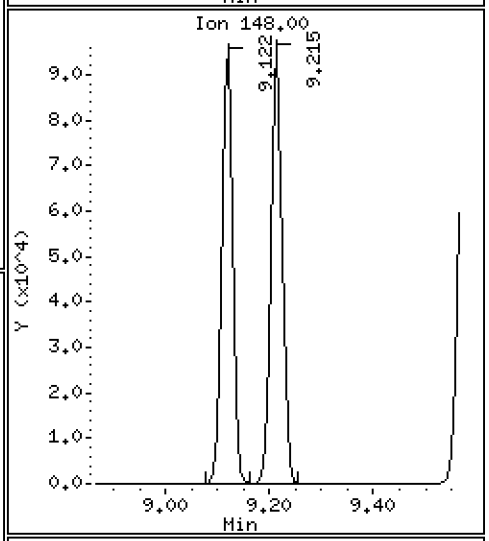


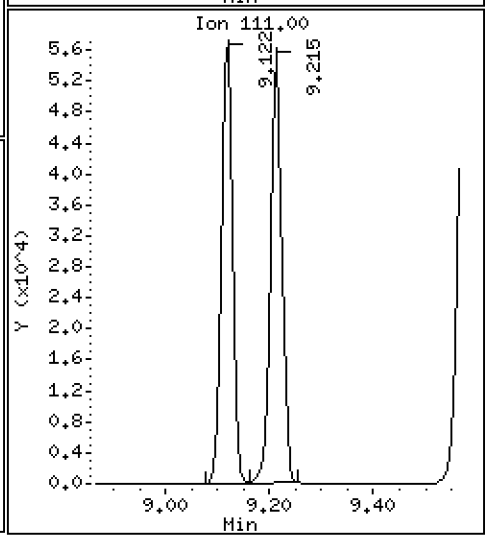












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

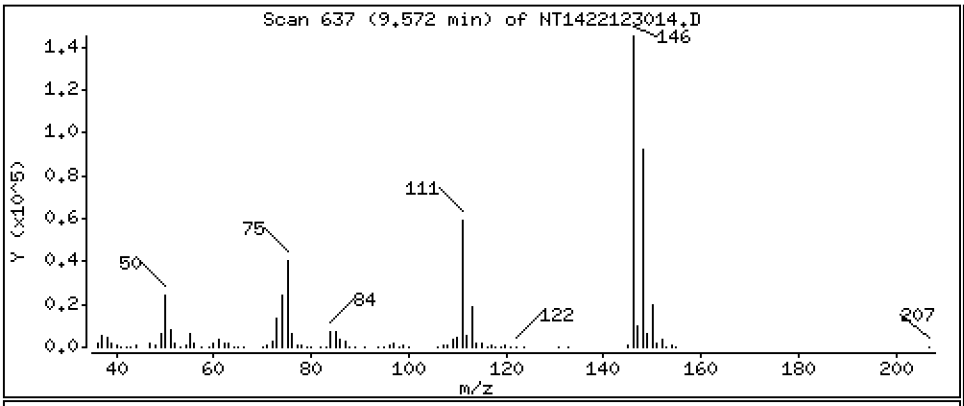
Operator: VTS

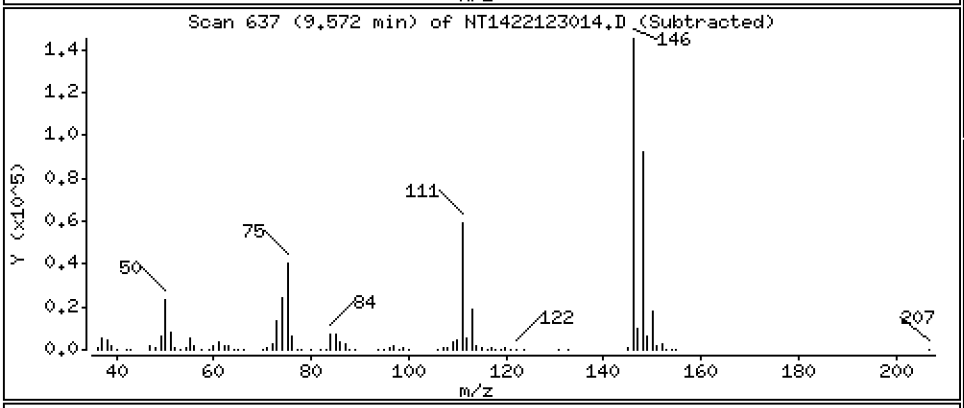
Column phase: ZB-5msi

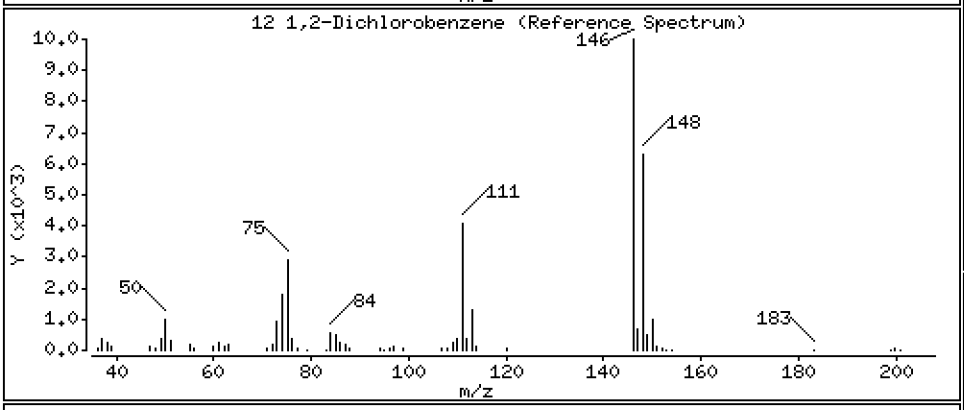
Column diameter: 0.25

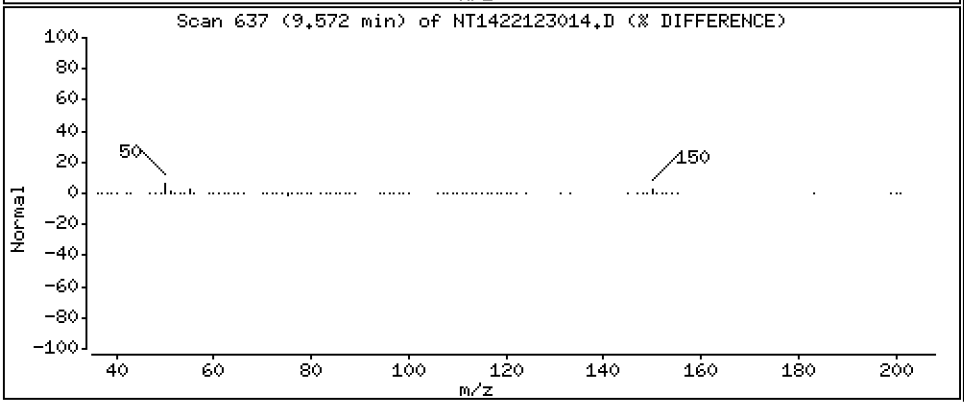
12 1,2-Dichlorobenzene

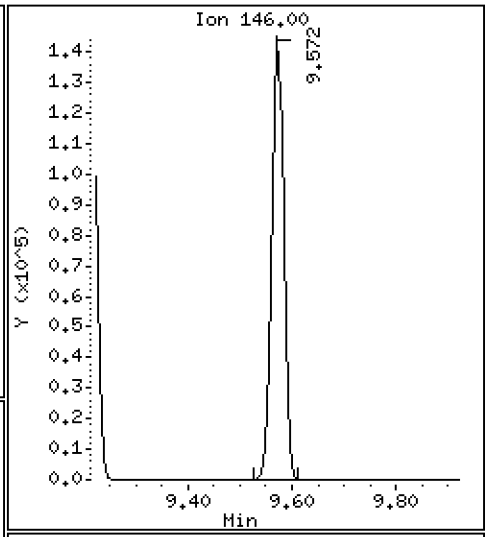
Concentration: 4.623 ug/mL

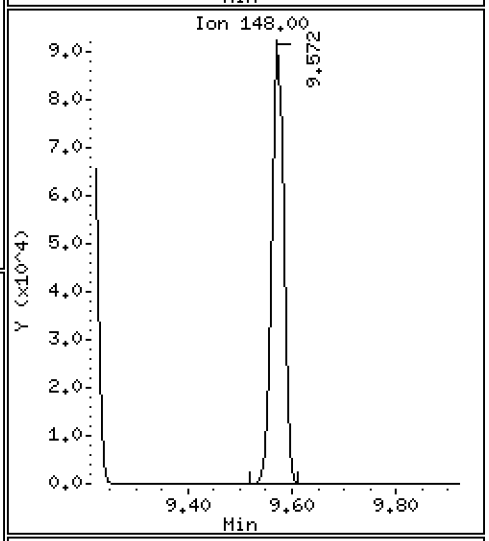


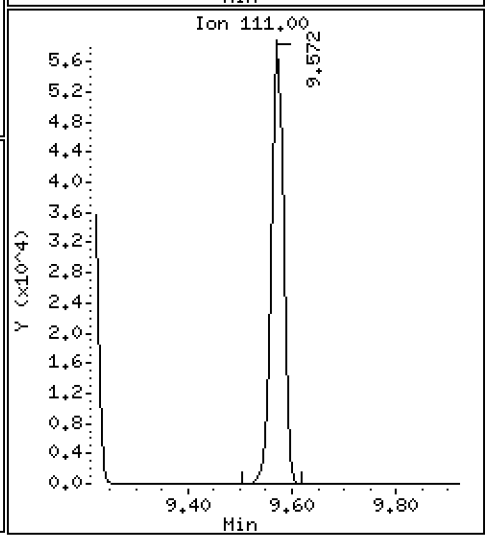












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

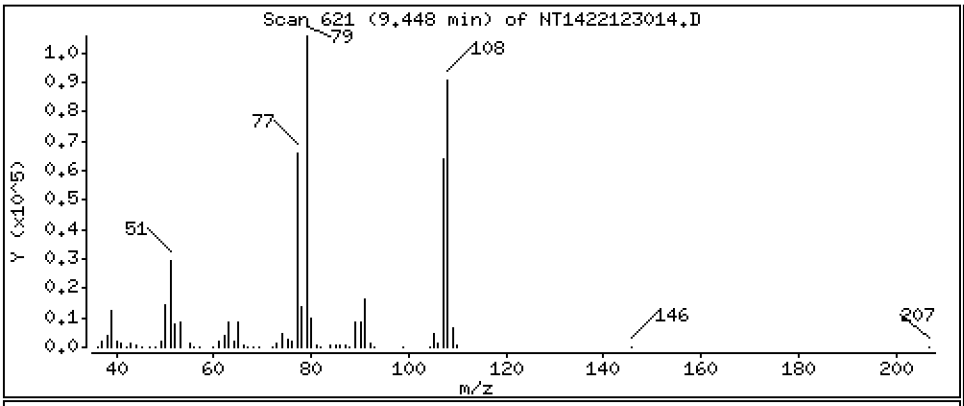
Operator: VTS

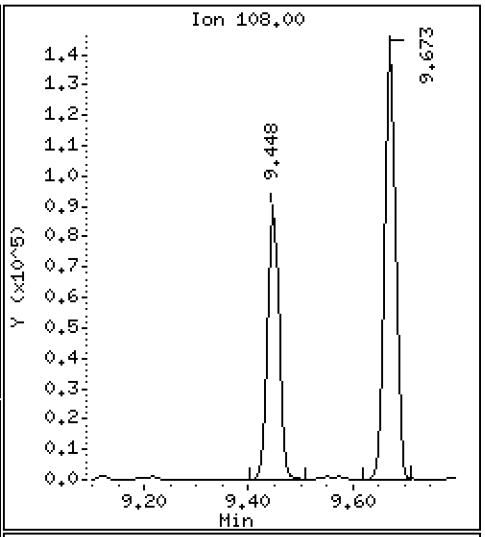
Column phase: ZB-5msi

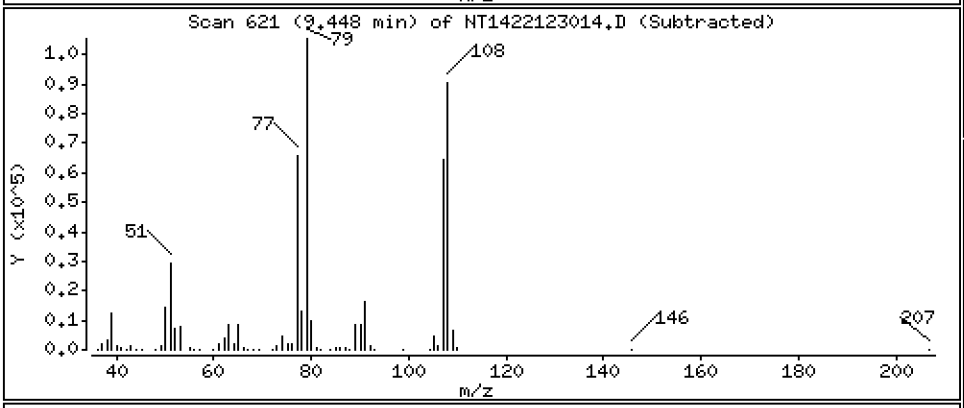
Column diameter: 0.25

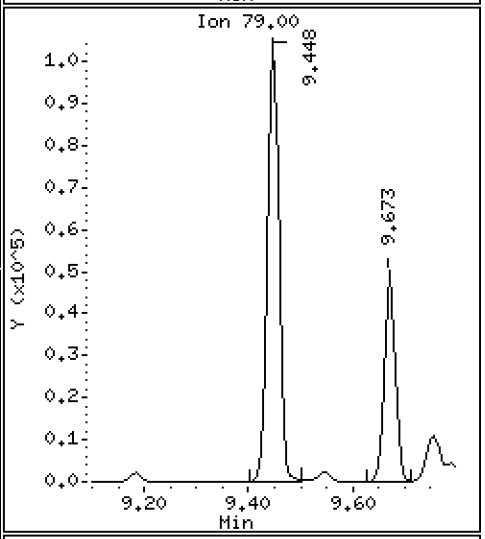
11 Benzyl alcohol

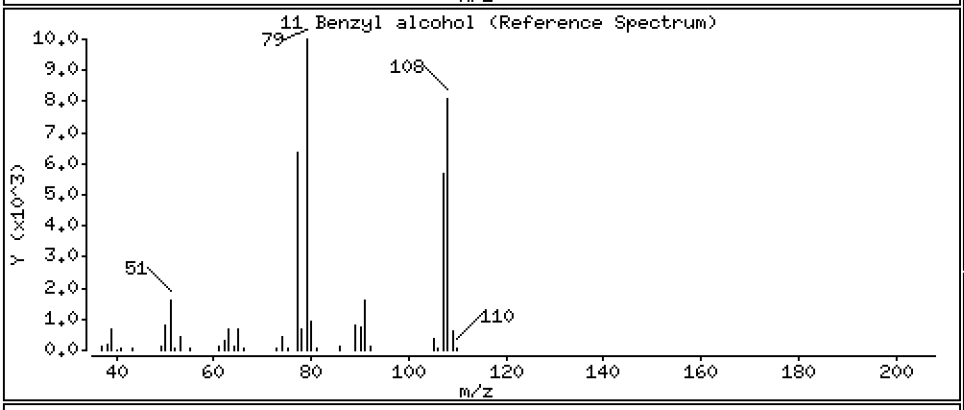
Concentration: 4.960 ug/mL

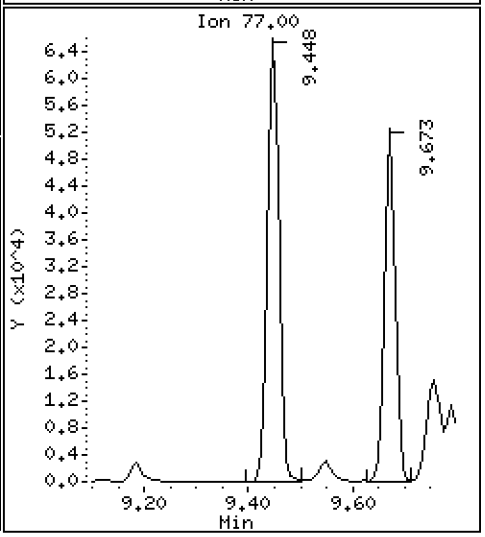


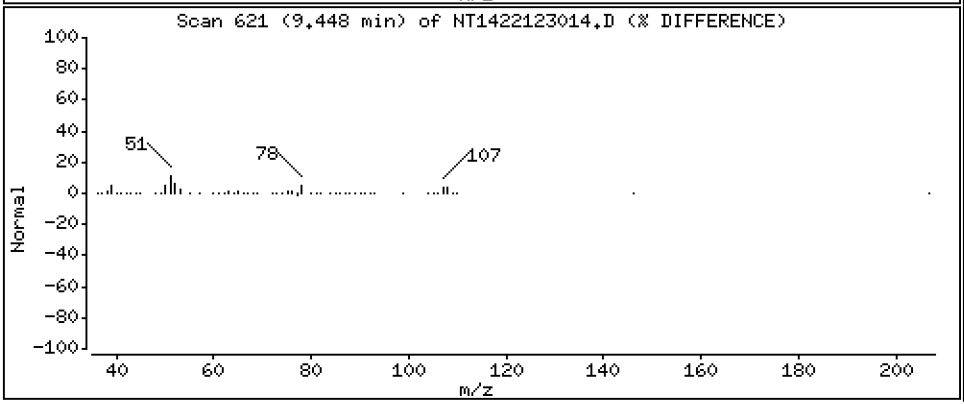












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

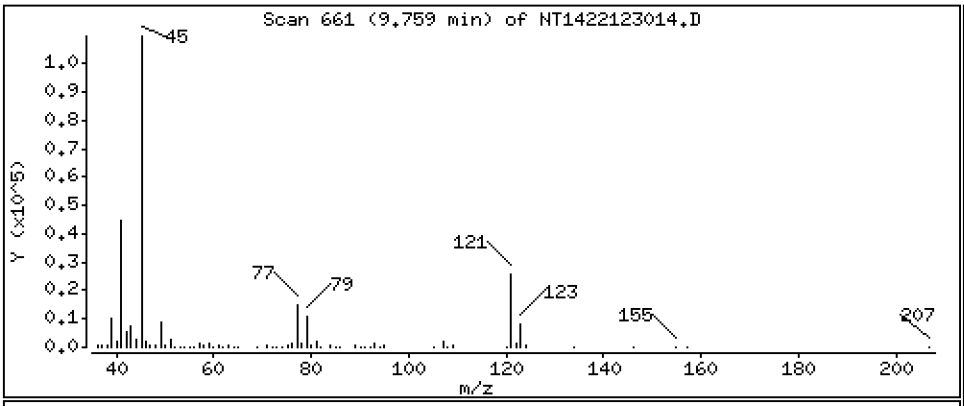
Operator: VTS

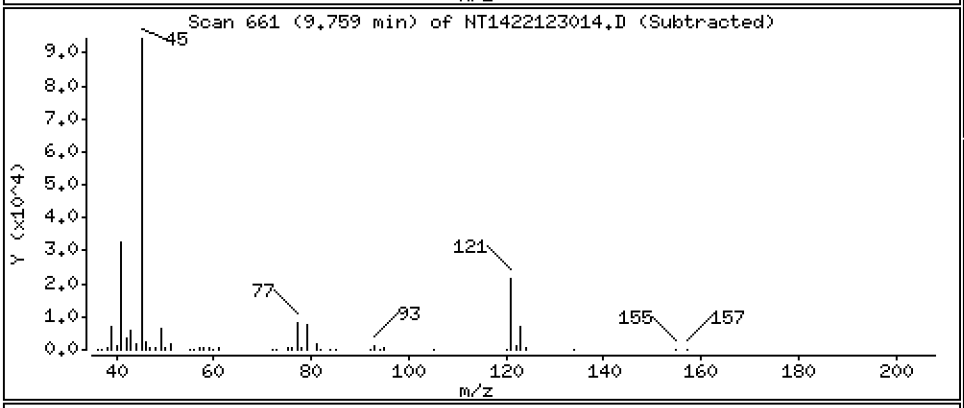
Column phase: ZB-5msi

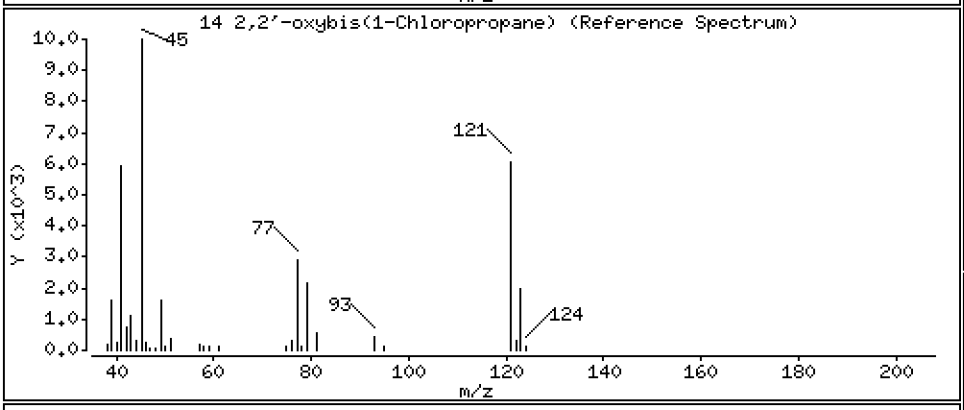
Column diameter: 0.25

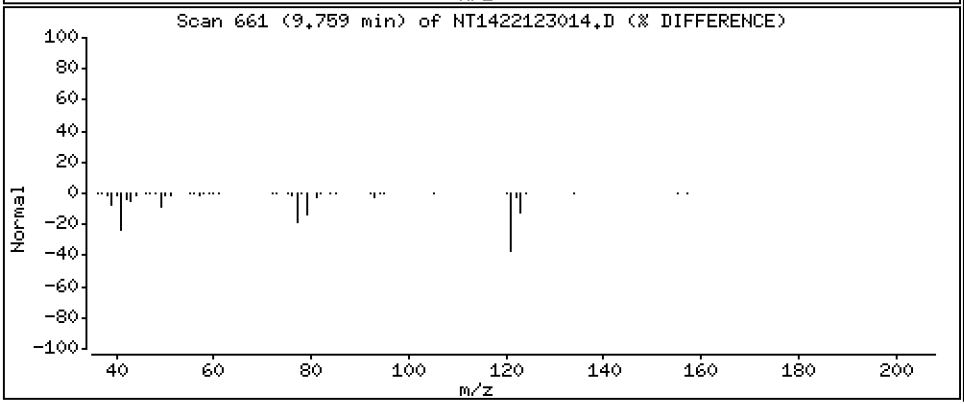
14 2,2'-oxybis(1-Chloropropane)

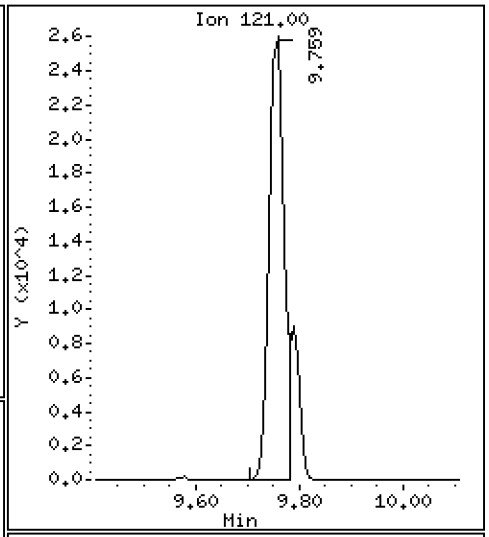
Concentration: 3.732 ug/mL

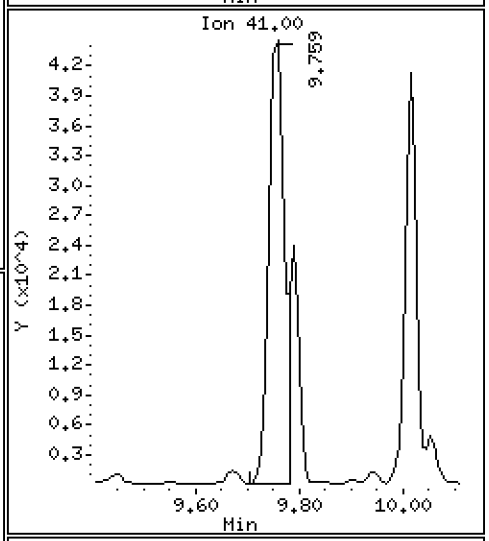


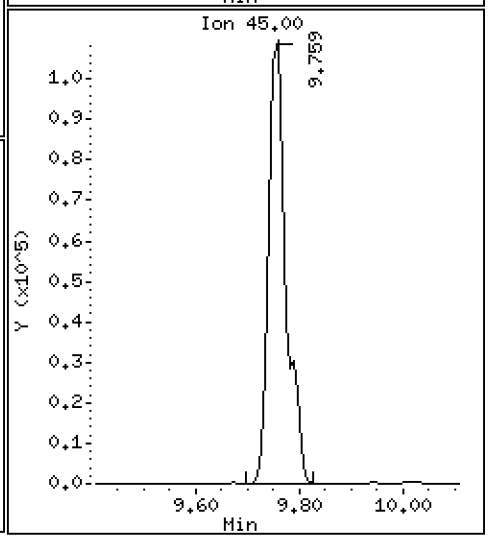












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

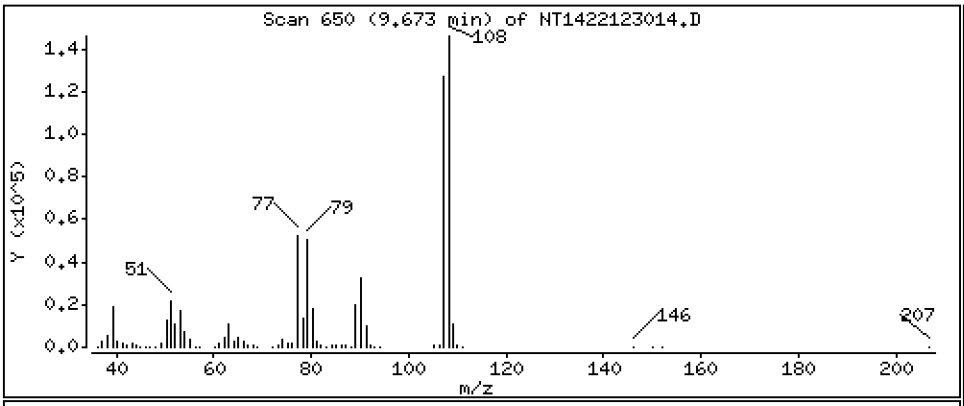
Operator: VTS

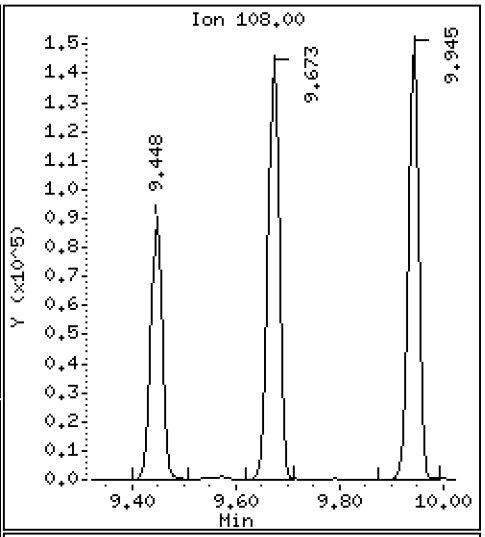
Column phase: ZB-5msi

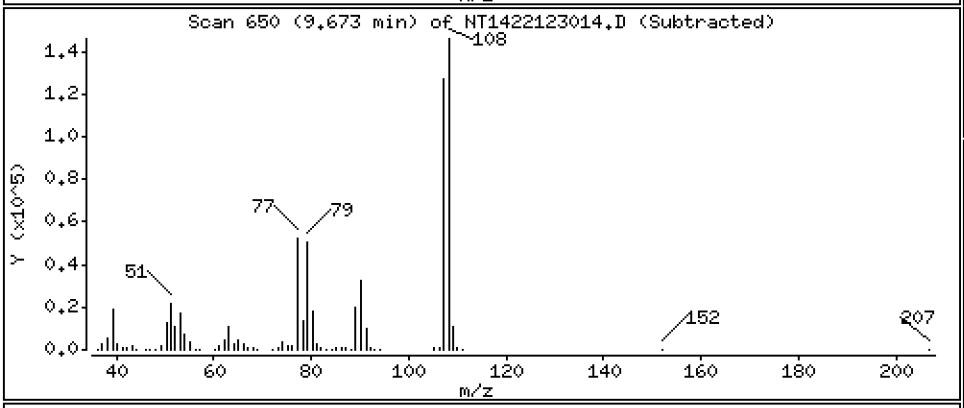
Column diameter: 0.25

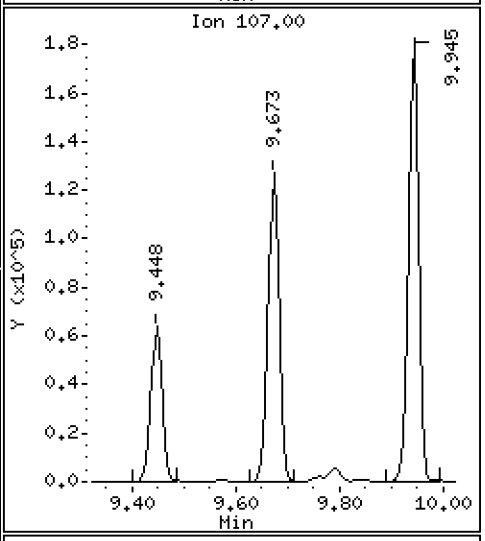
13 2-Methylphenol

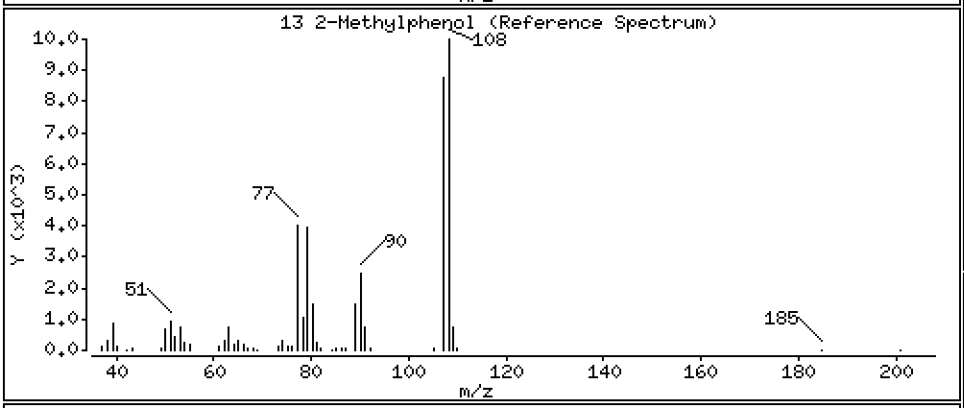
Concentration: 4.858 ug/mL

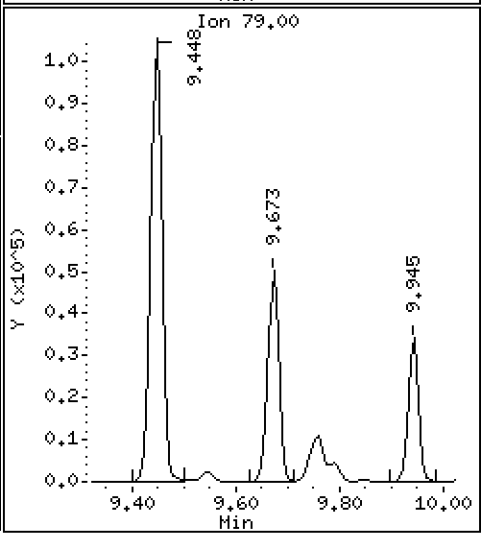


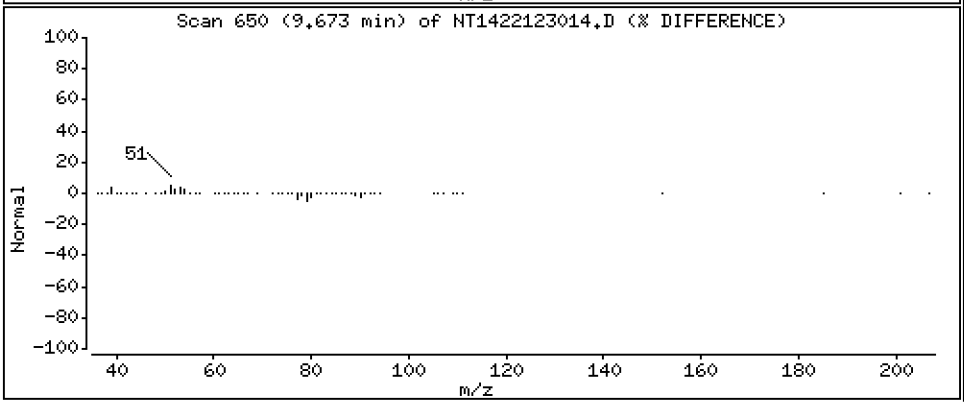












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

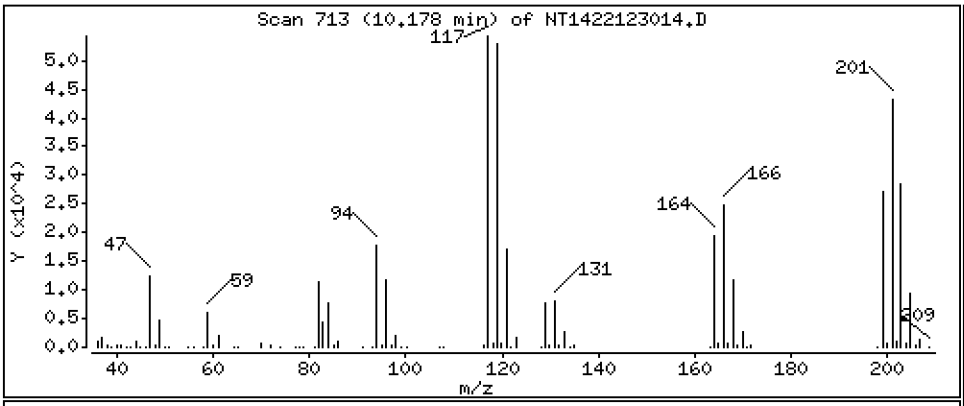
Operator: VTS

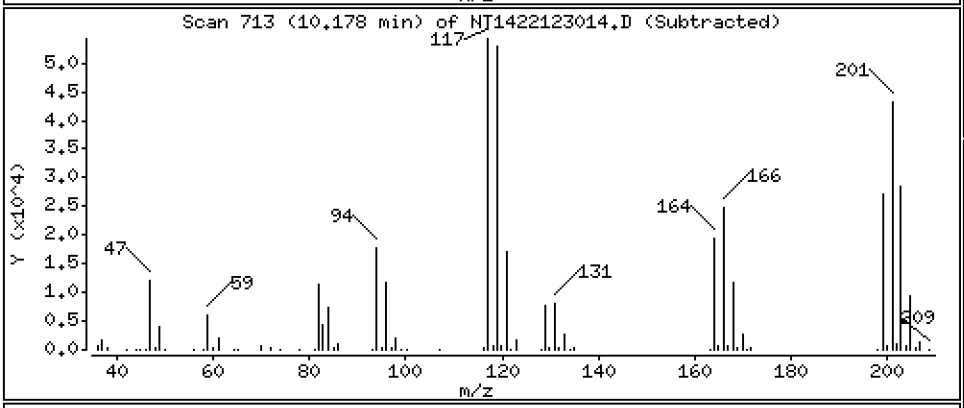
Column phase: ZB-5msi

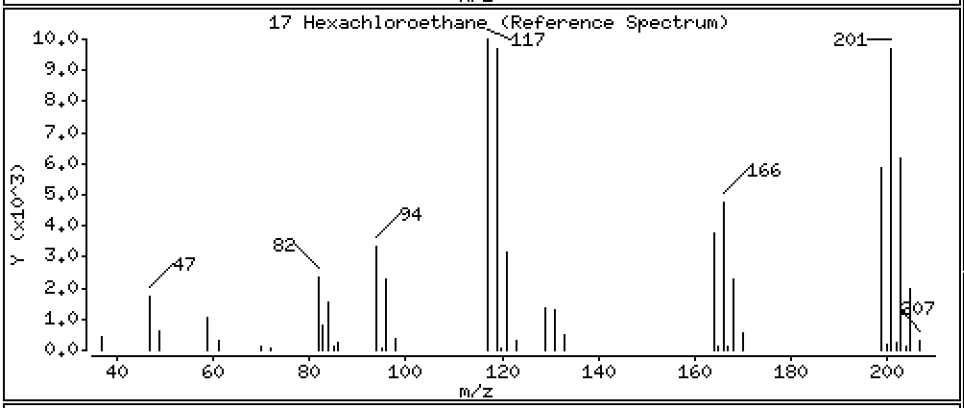
Column diameter: 0.25

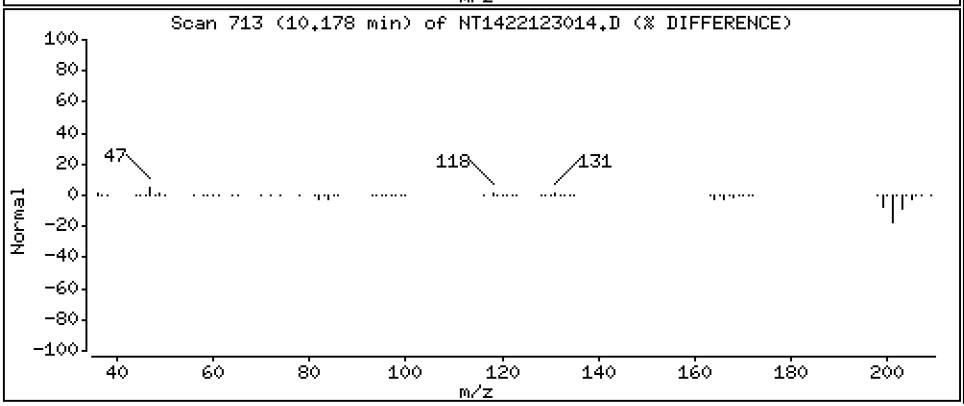
17 Hexachloroethane

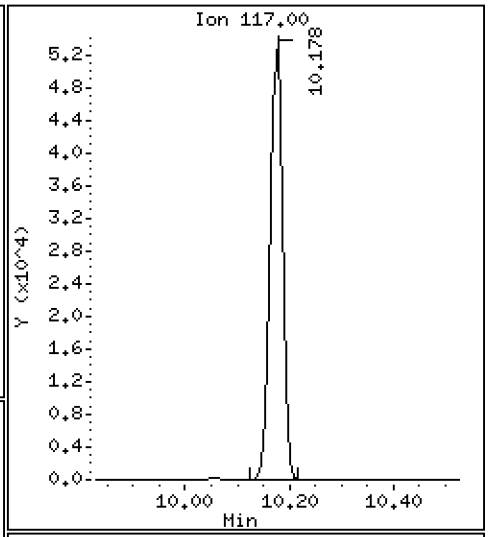
Concentration: 4.777 ug/mL

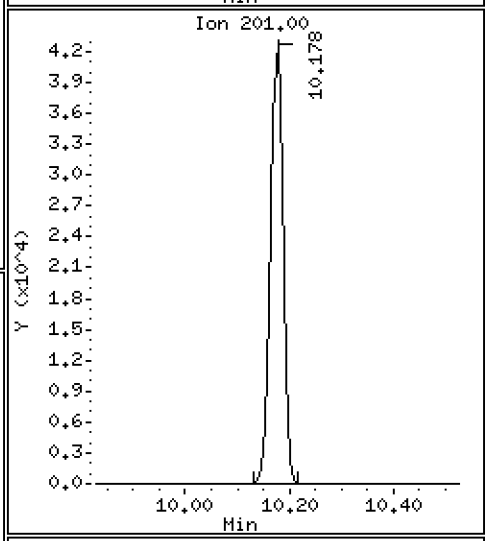


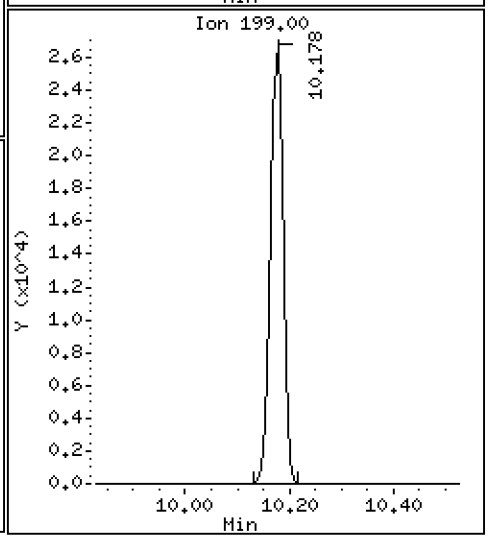












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

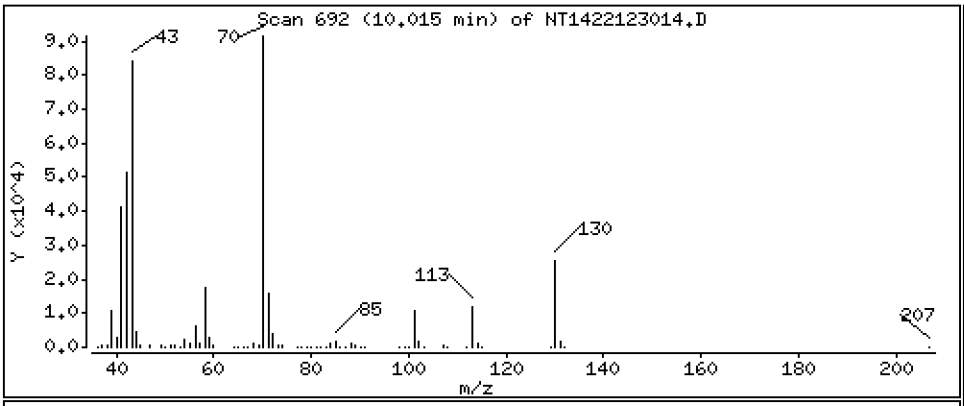
Operator: VTS

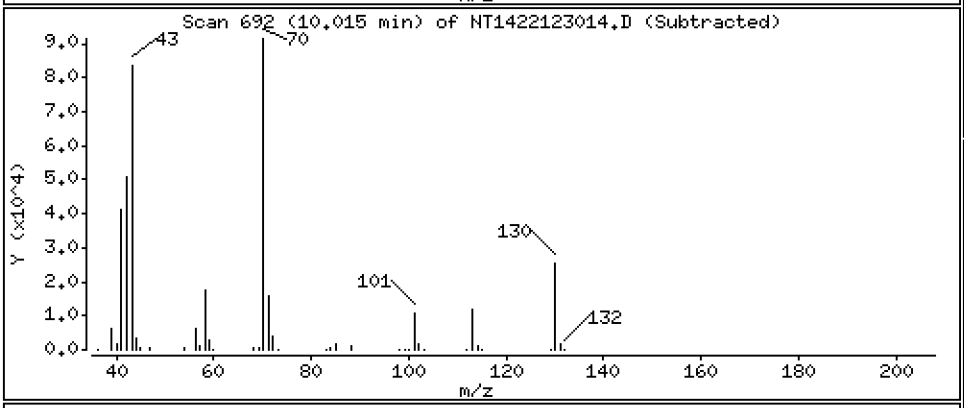
Column phase: ZB-5msi

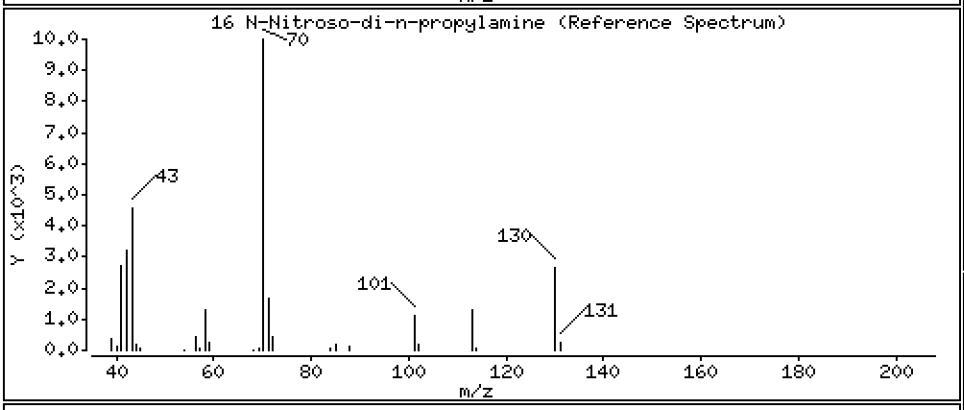
Column diameter: 0.25

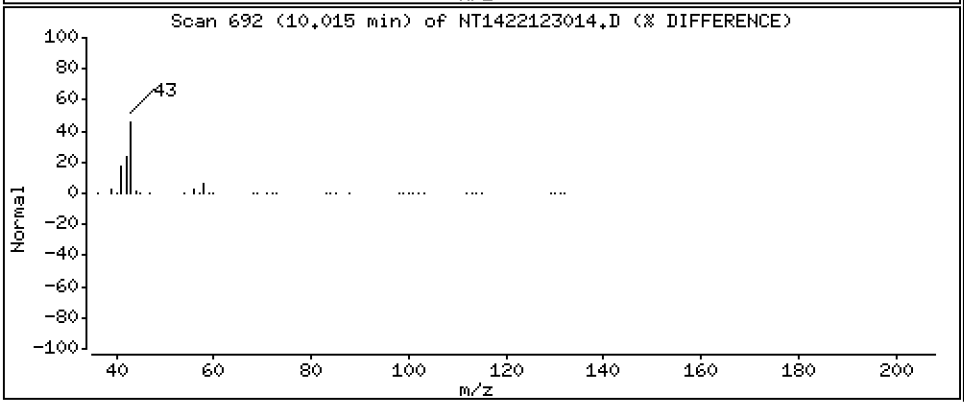
16 N-Nitroso-di-n-propylamine

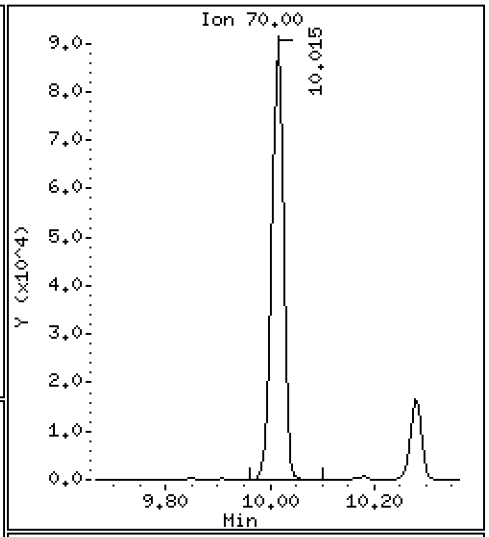
Concentration: 5.157 ug/mL

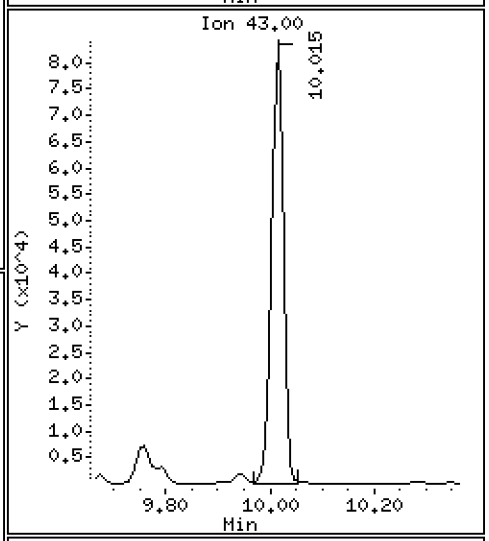


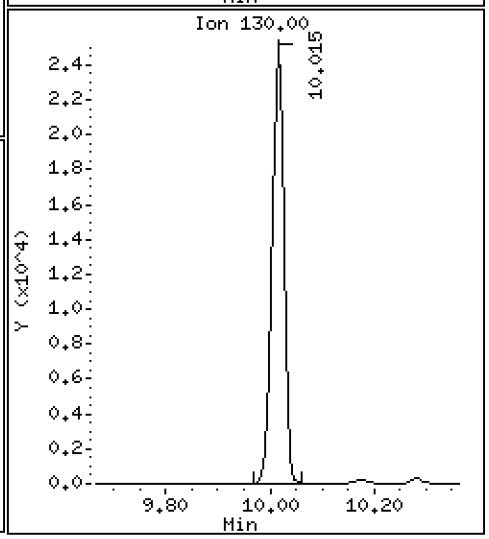












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

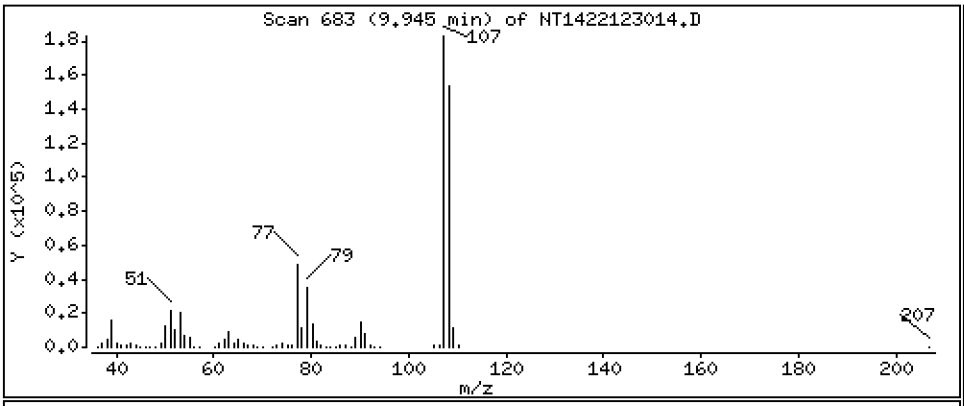
Operator: VTS

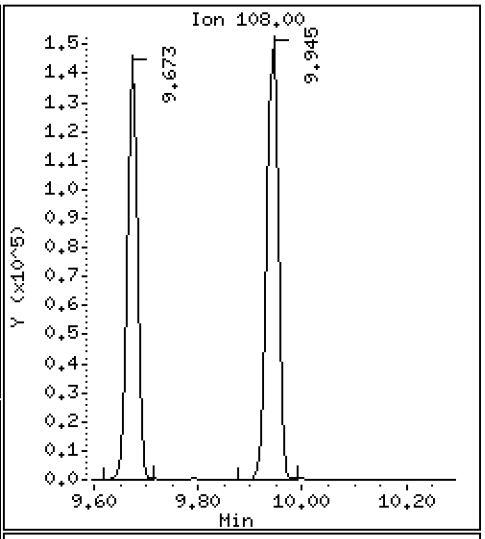
Column phase: ZB-5msi

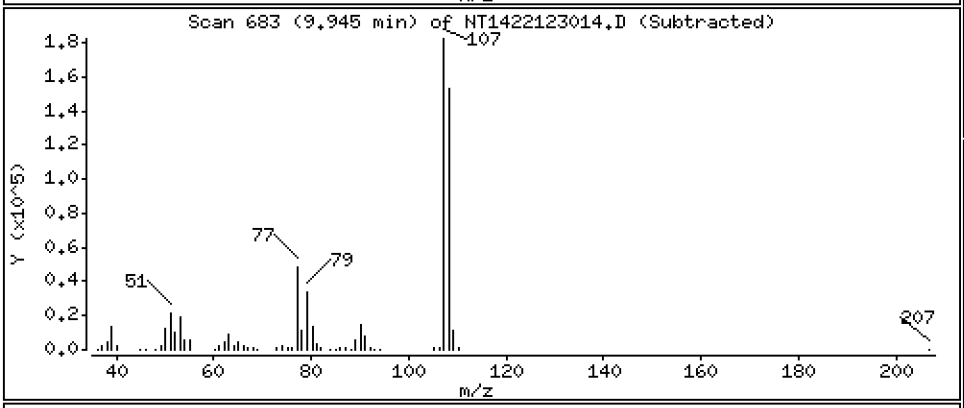
Column diameter: 0.25

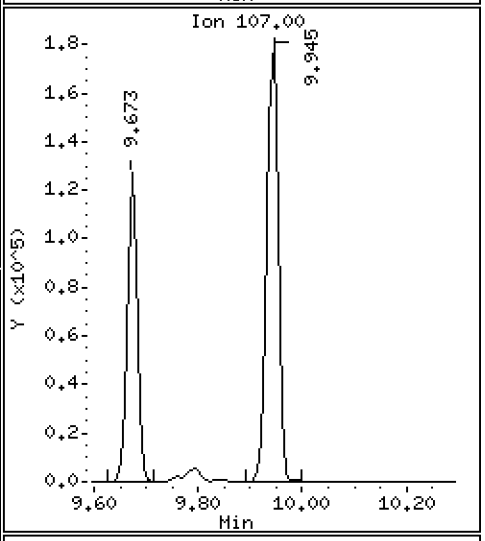
15 4-Methylphenol

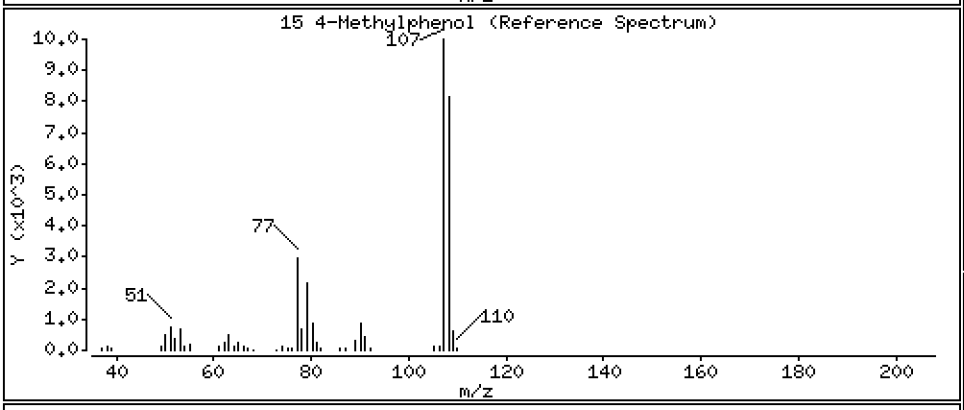
Concentration: 4.896 ug/mL

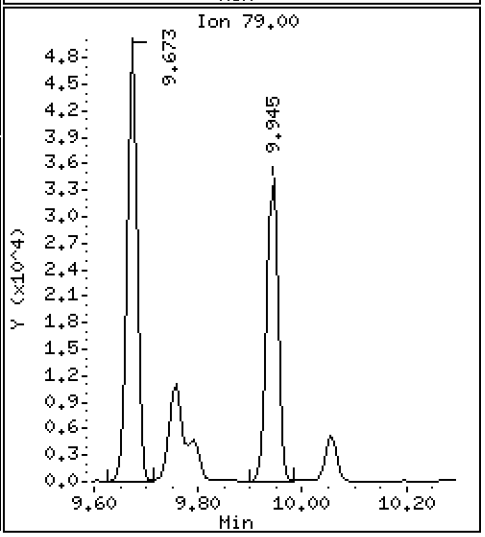


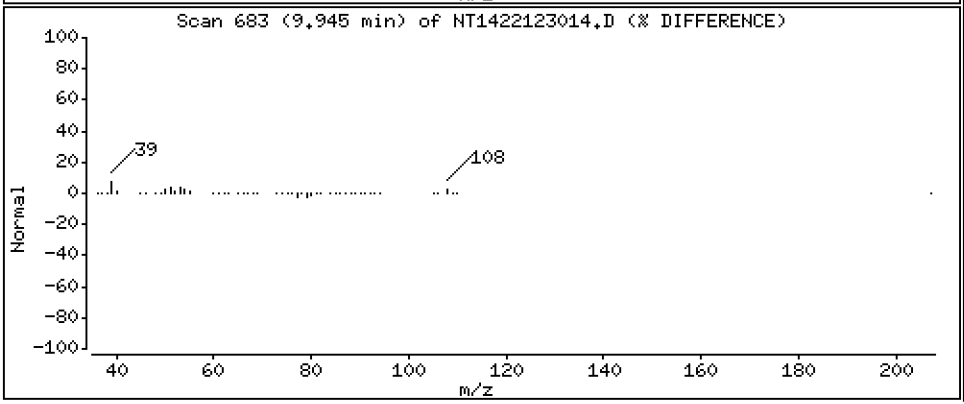












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

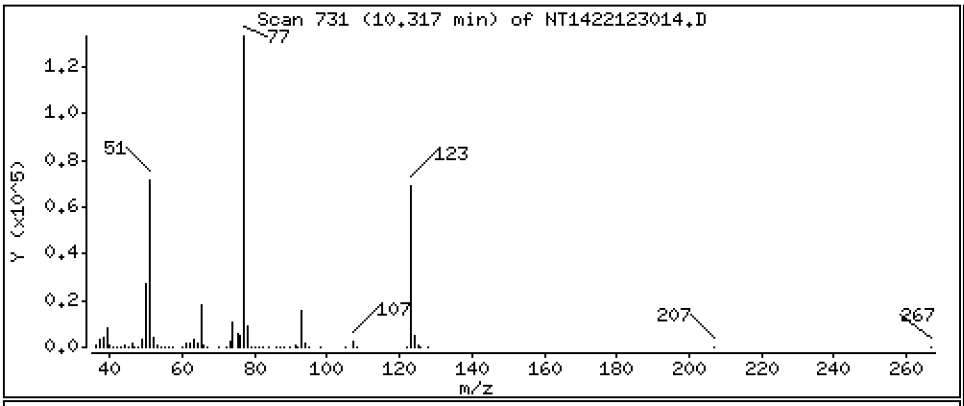
Operator: VTS

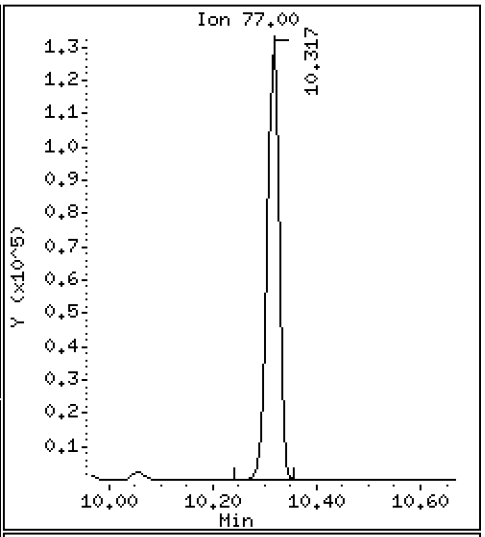
Column phase: ZB-5msi

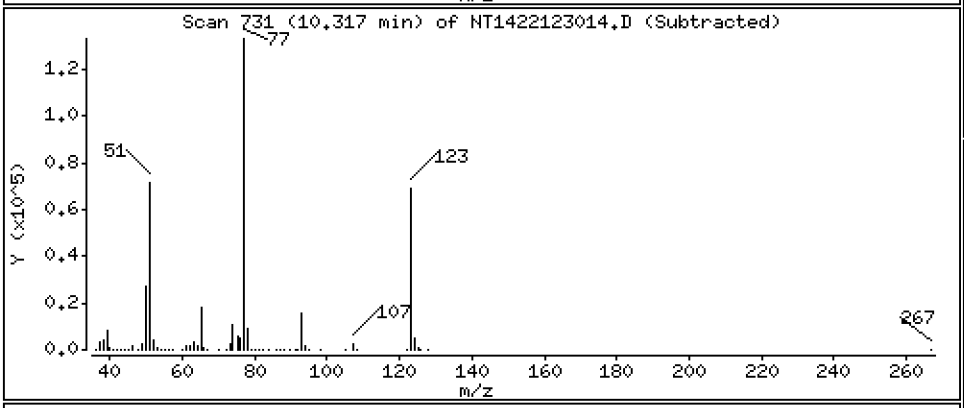
Column diameter: 0.25

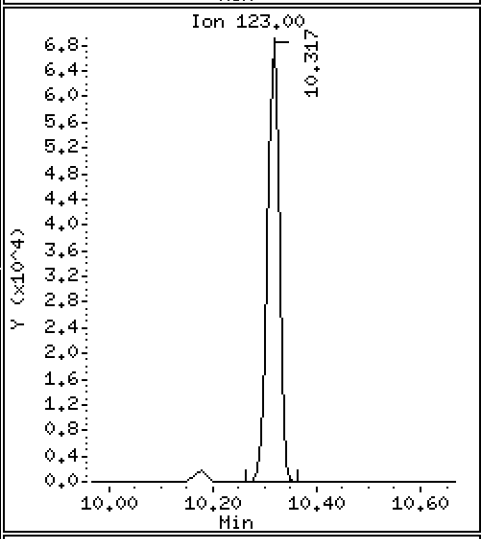
19 Nitrobenzene

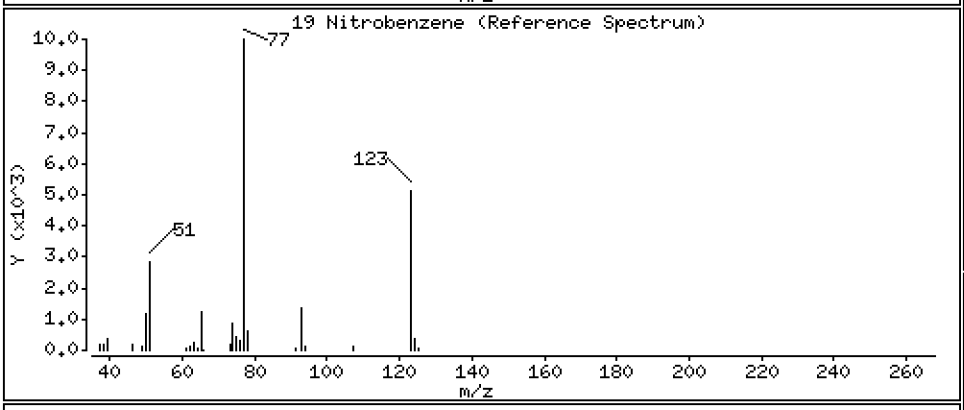
Concentration: 4.844 ug/mL

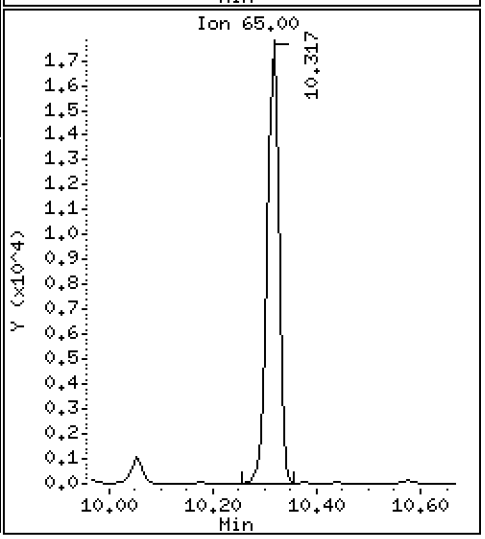


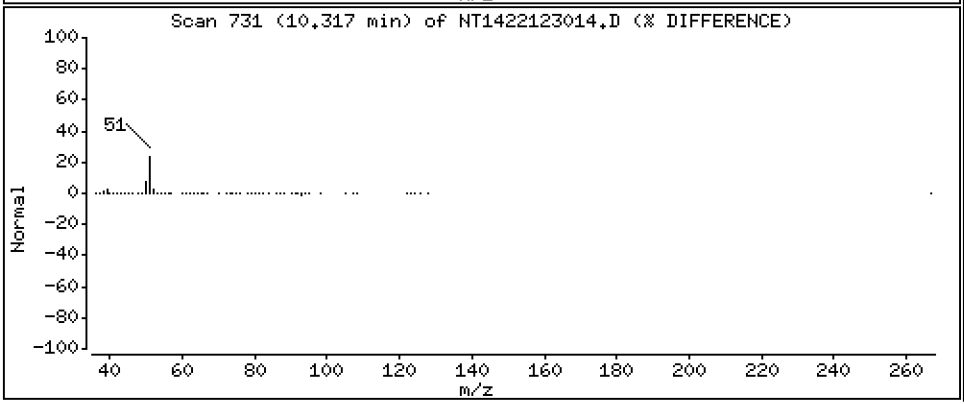












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

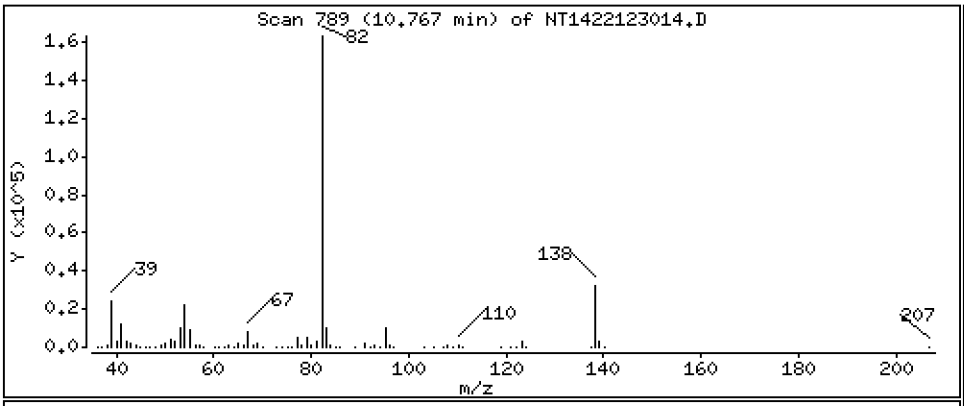
Operator: VTS

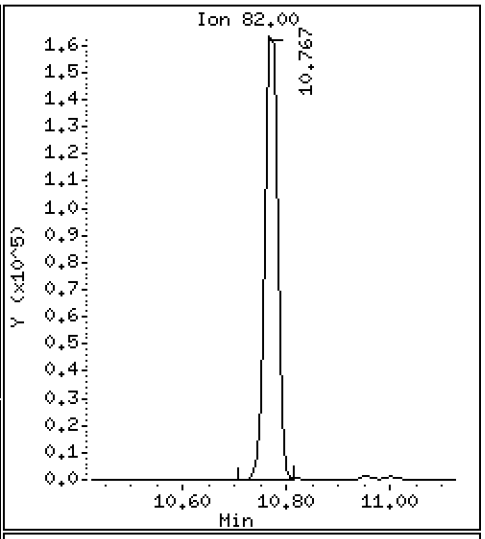
Column phase: ZB-5msi

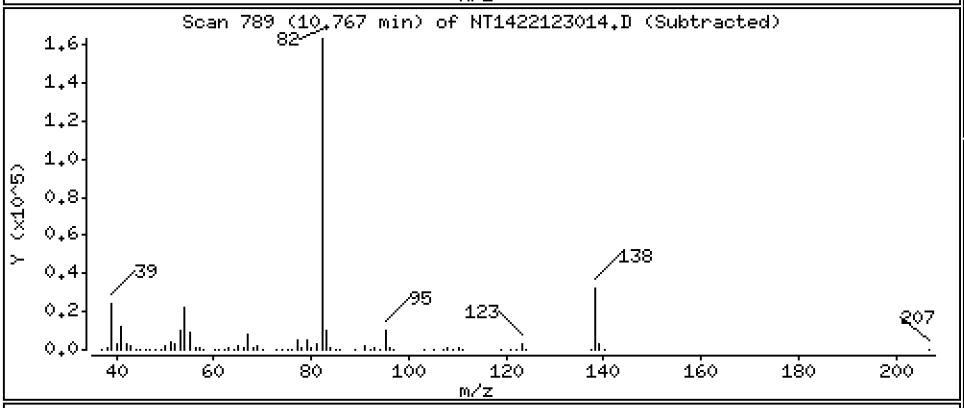
Column diameter: 0.25

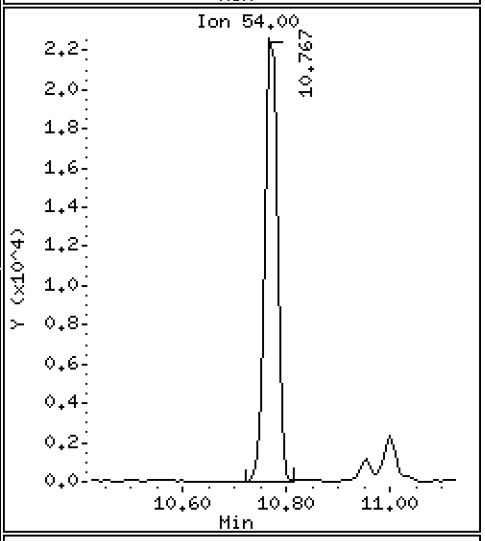
20 Isophorone

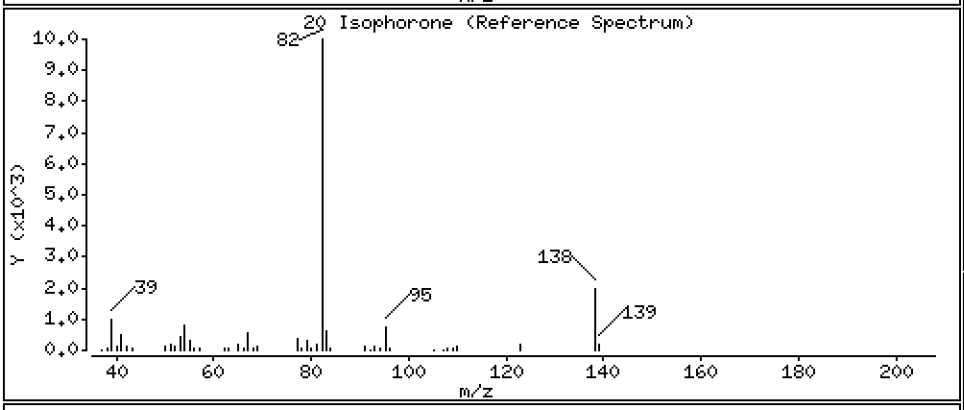
Concentration: 5.100 ug/mL

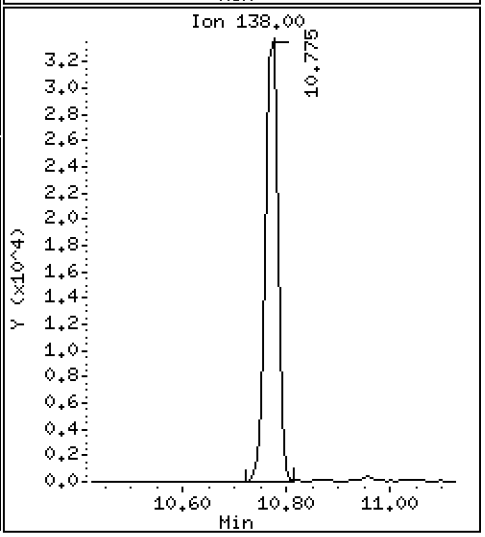


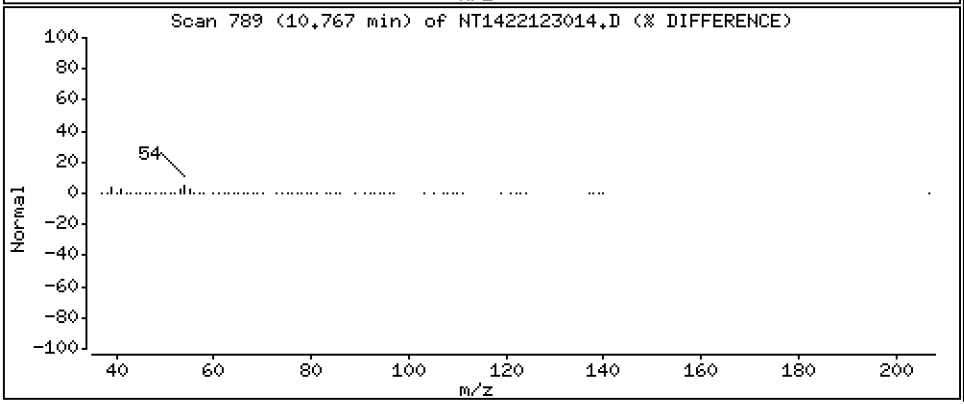












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

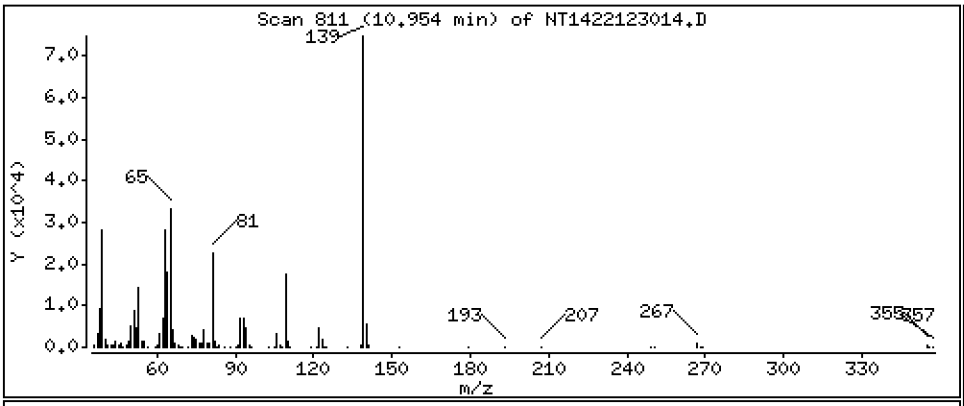
Operator: VTS

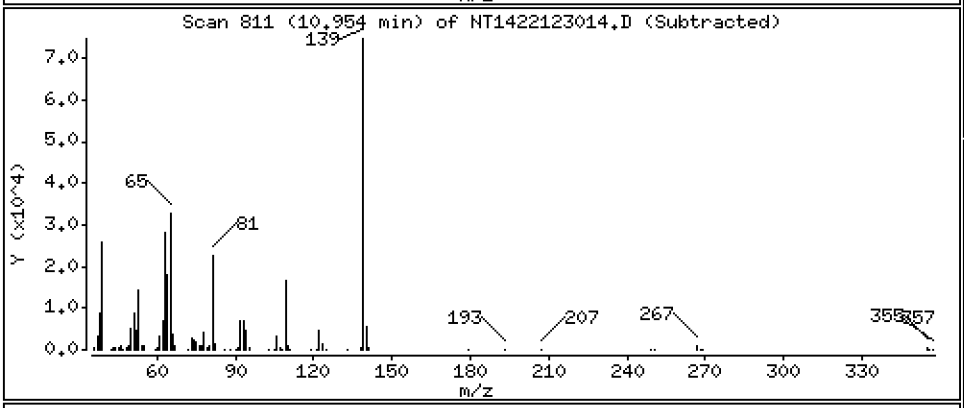
Column phase: ZB-5msi

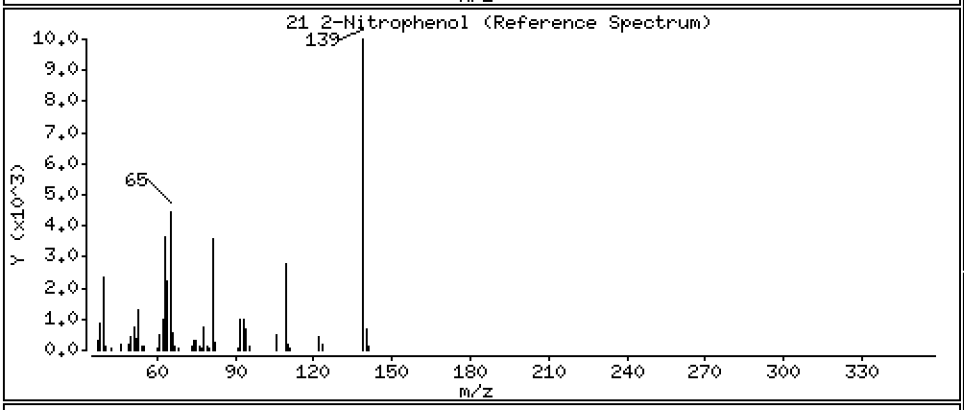
Column diameter: 0.25

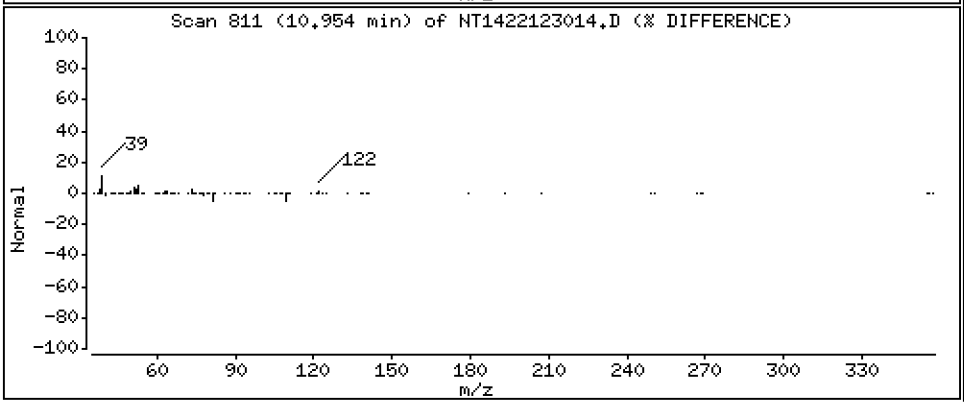
21 2-Nitrophenol

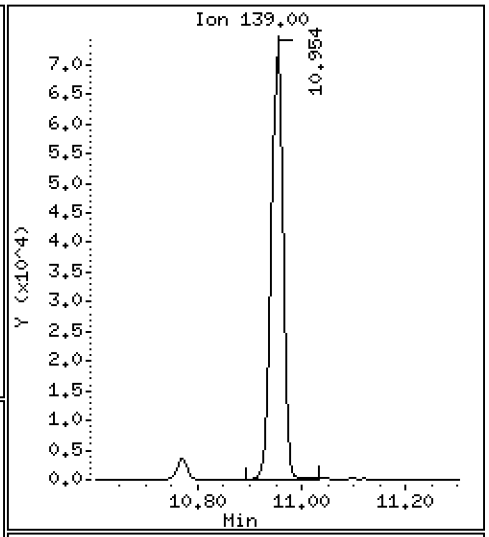
Concentration: 4.700 ug/mL

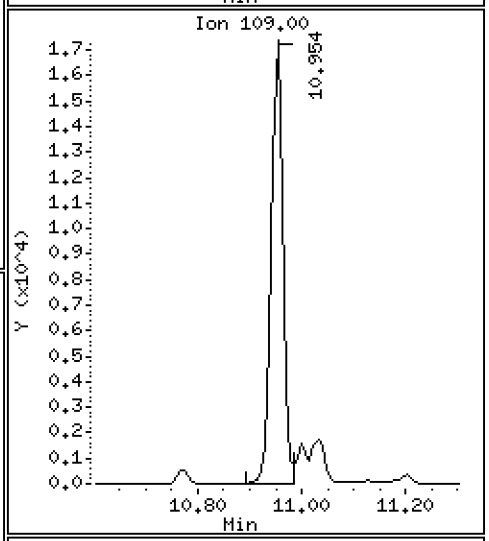


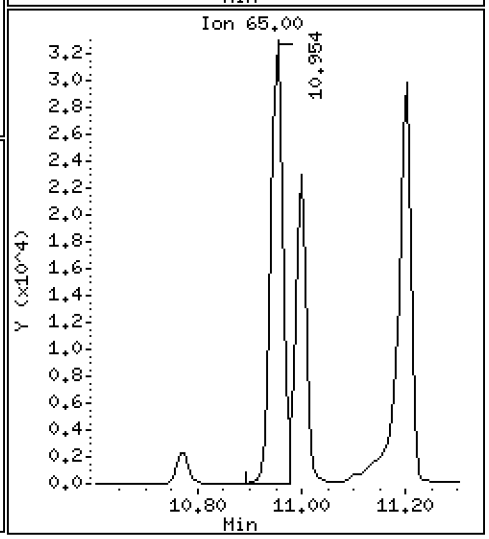












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

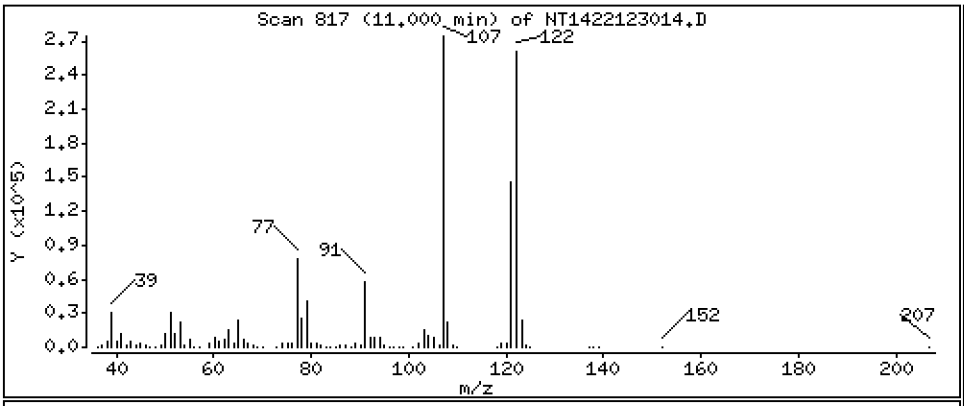
Operator: VTS

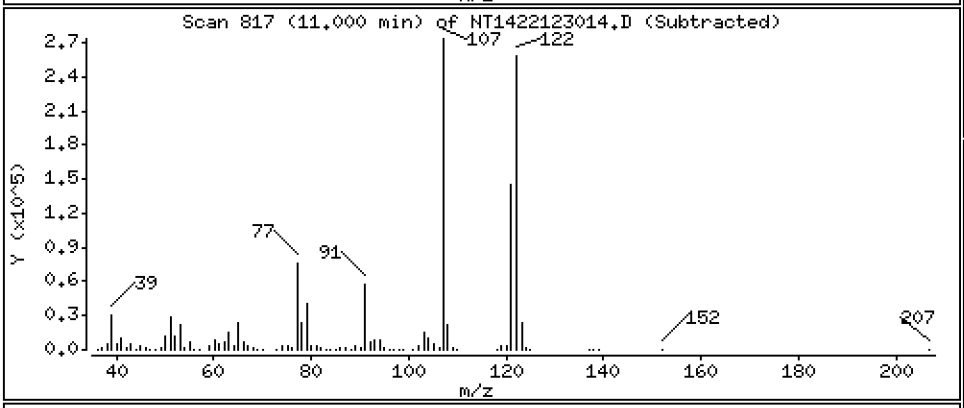
Column phase: ZB-5msi

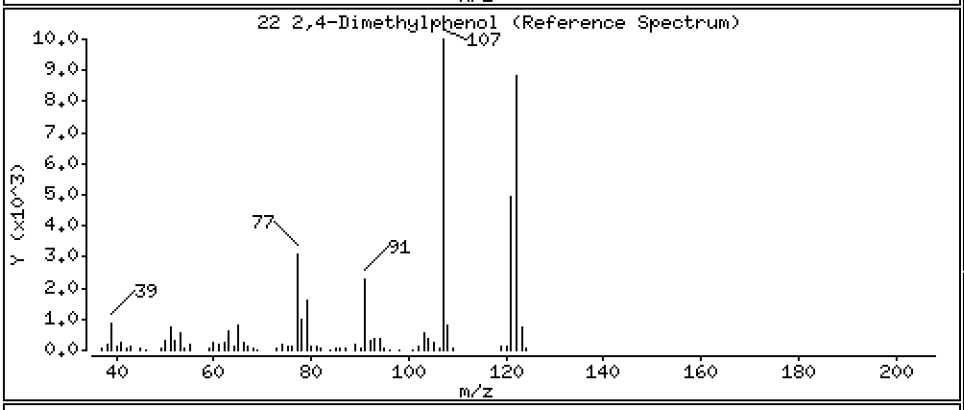
Column diameter: 0.25

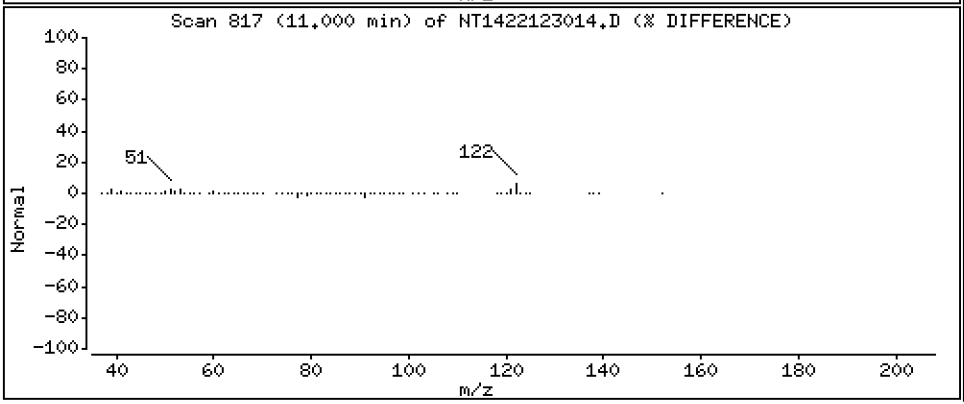
22 2,4-Dimethylphenol

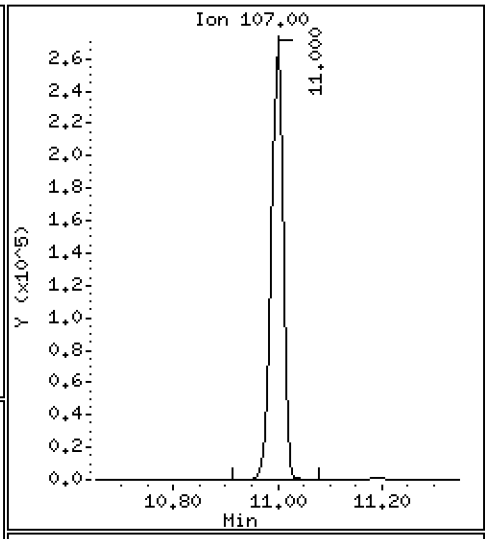
Concentration: 9.464 ug/mL

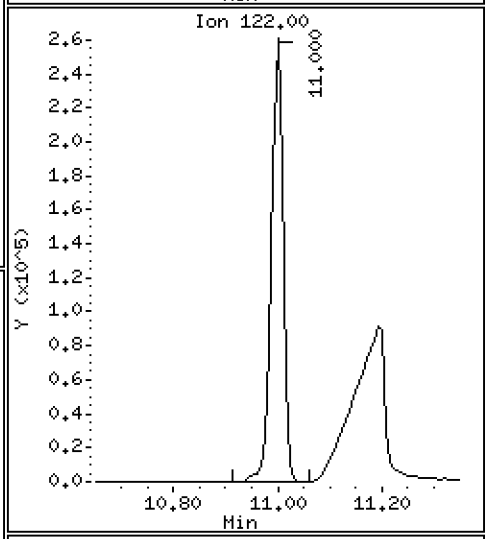


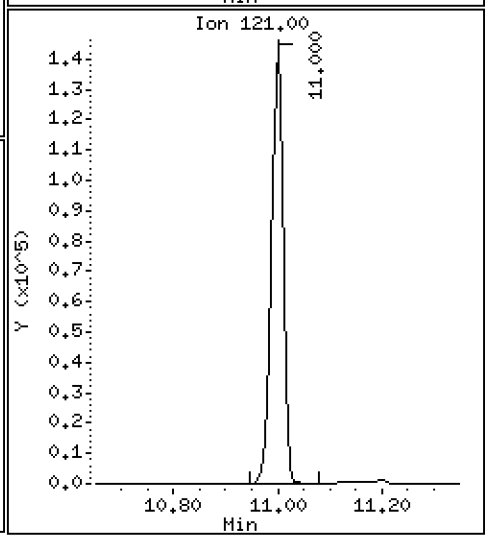












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

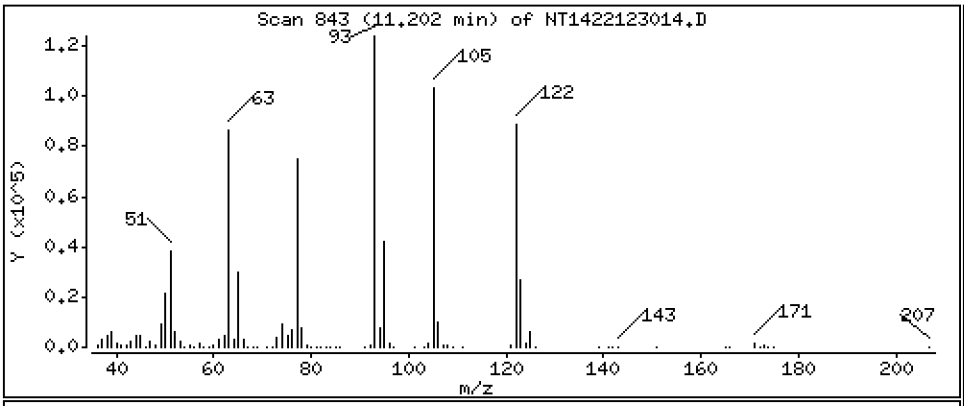
Operator: VTS

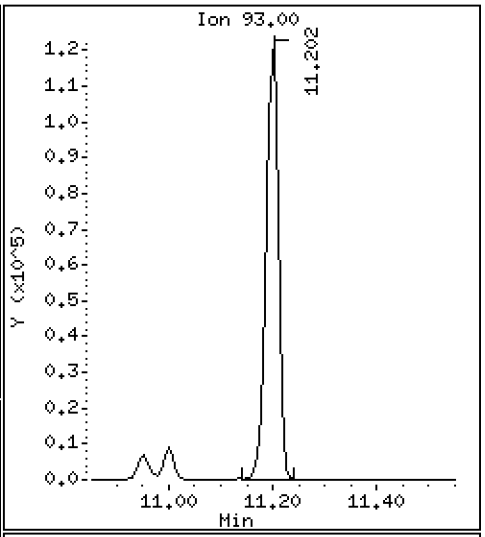
Column phase: ZB-5msi

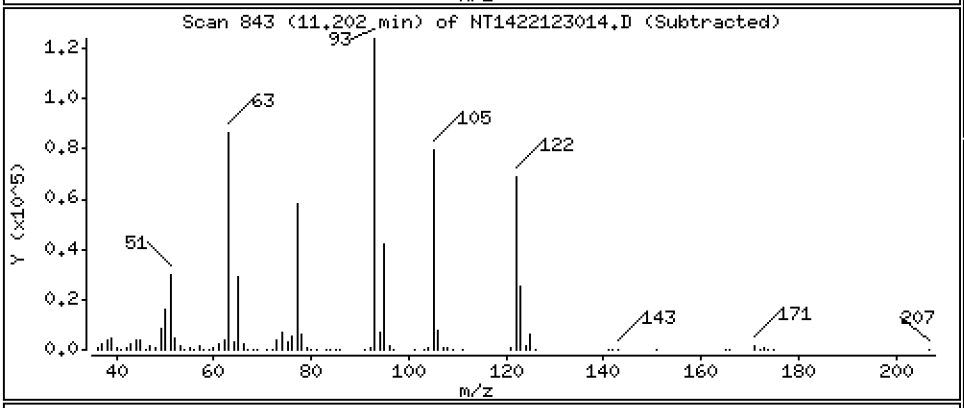
Column diameter: 0.25

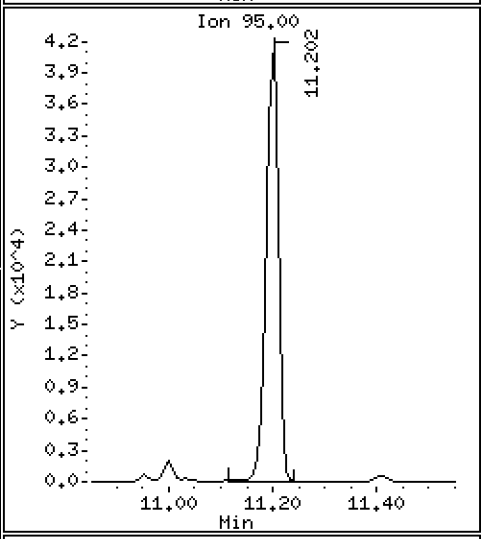
23 Bis(2-Chloroethoxy)methane

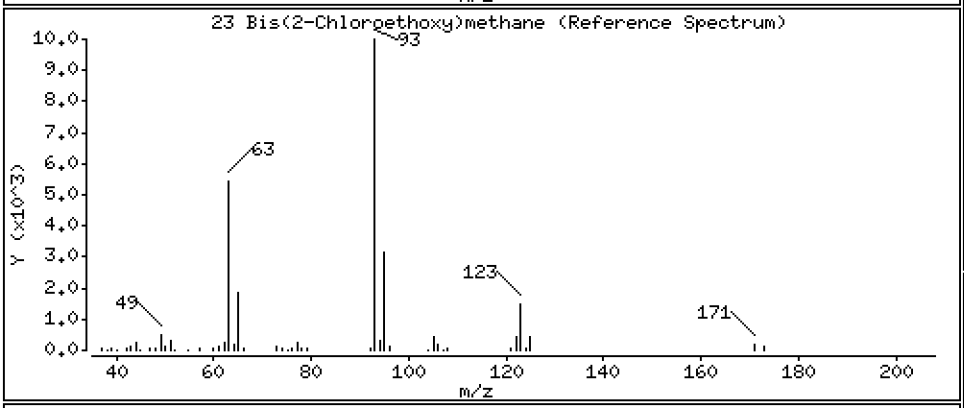
Concentration: 4.648 ug/mL

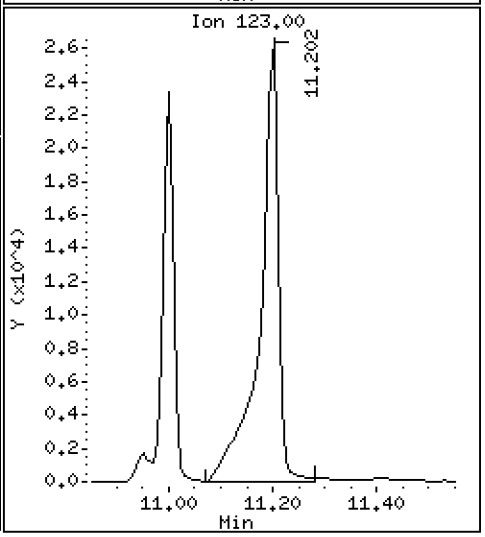


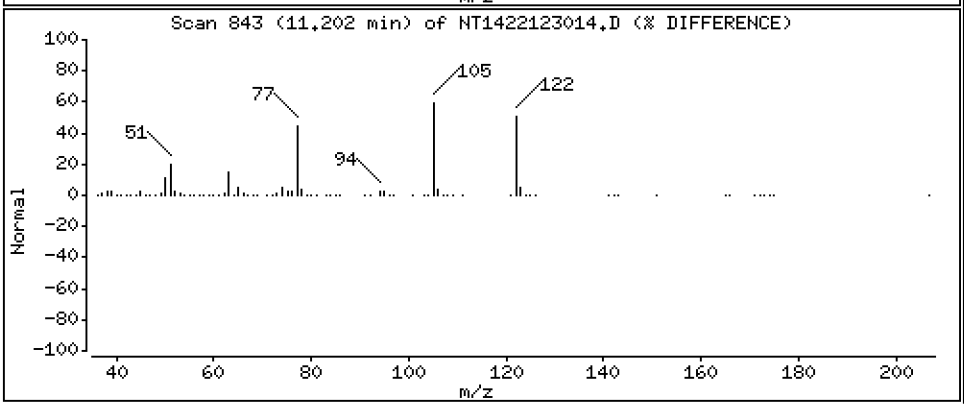












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

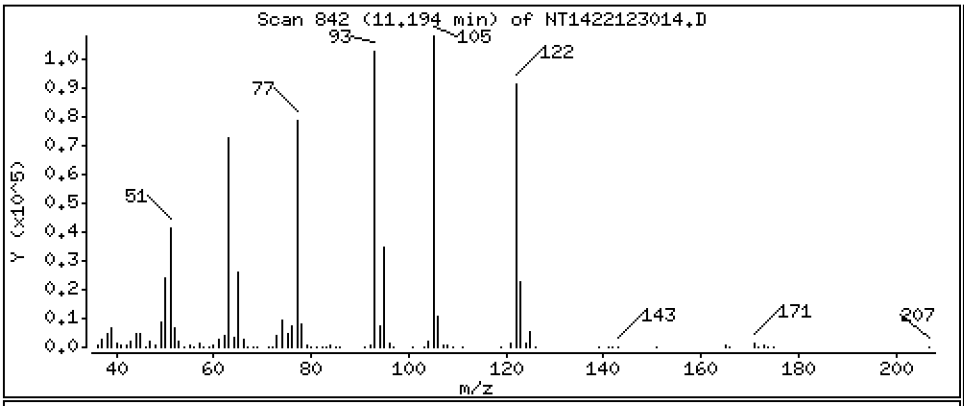
Operator: VTS

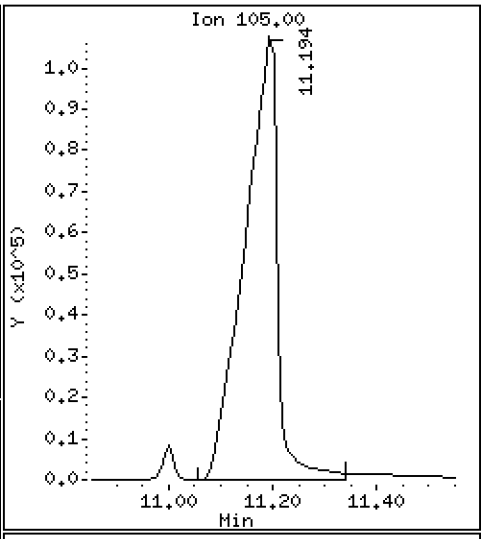
Column phase: ZB-5msi

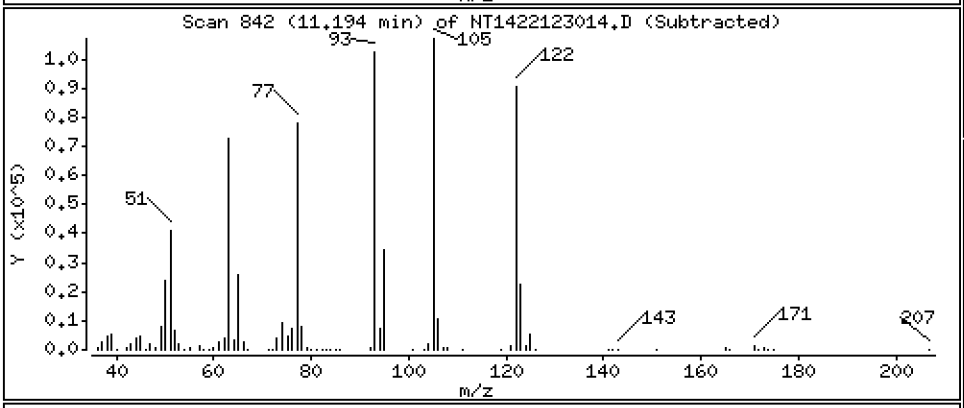
Column diameter: 0.25

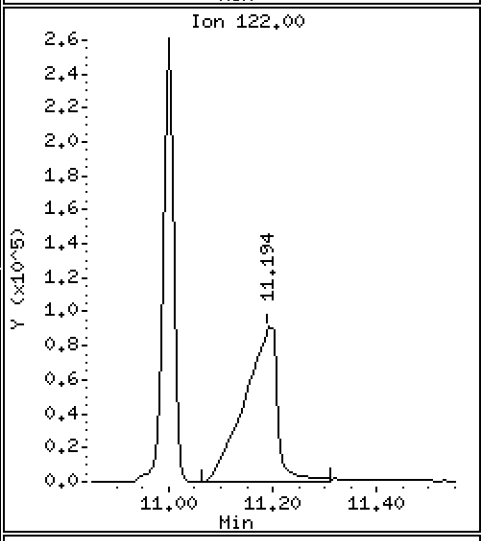
24 Benzoic acid

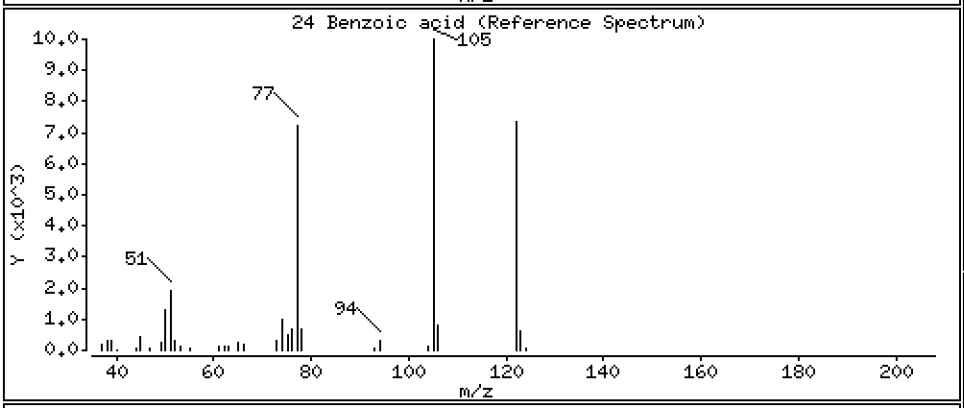
Concentration: 17.39 ug/mL

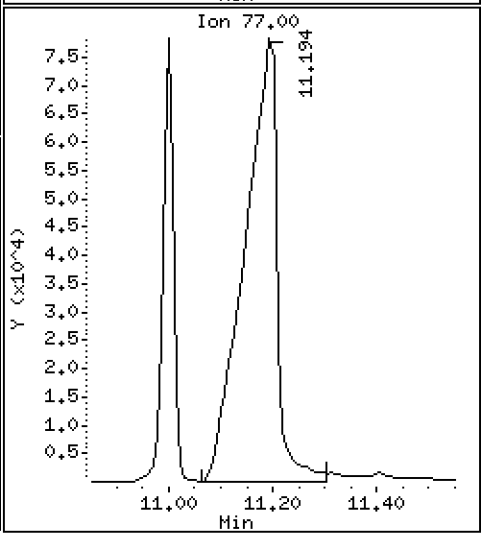


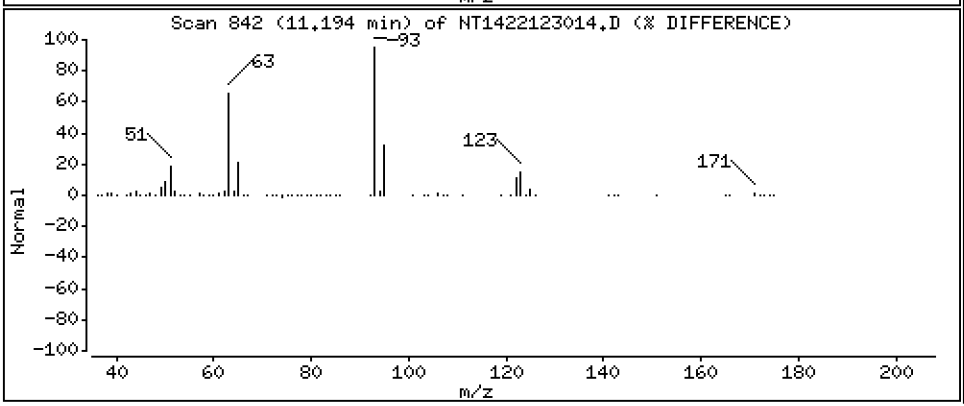












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

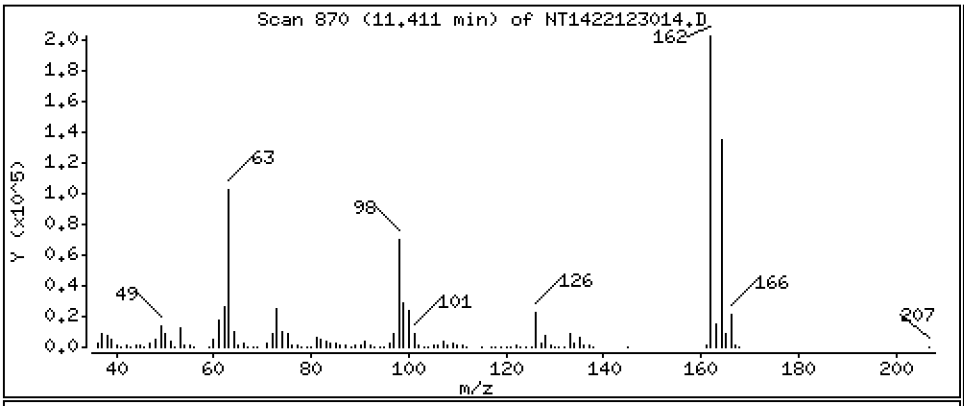
Operator: VTS

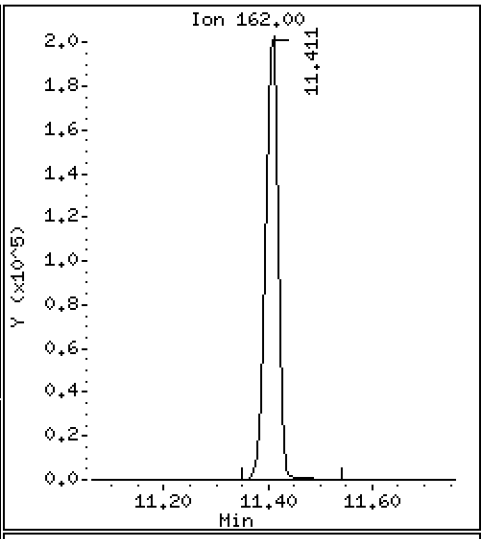
Column phase: ZB-5msi

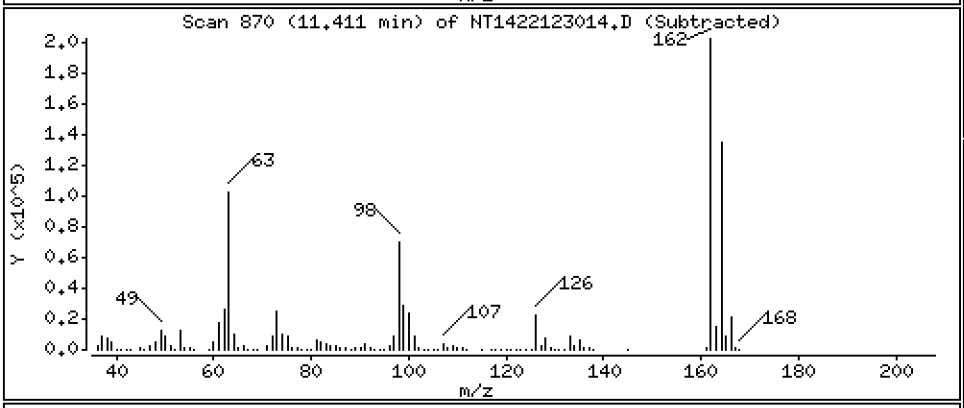
Column diameter: 0.25

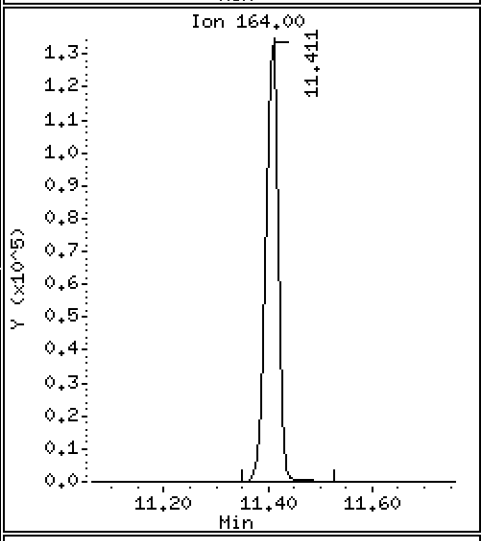
25 2,4-Dichlorophenol

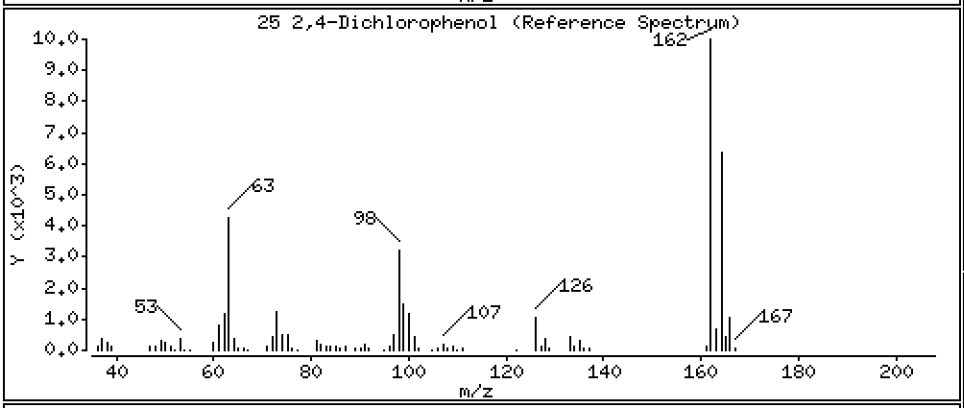
Concentration: 10.02 ug/mL

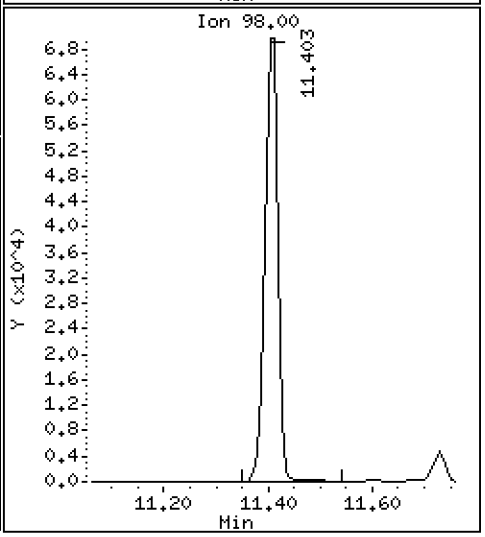


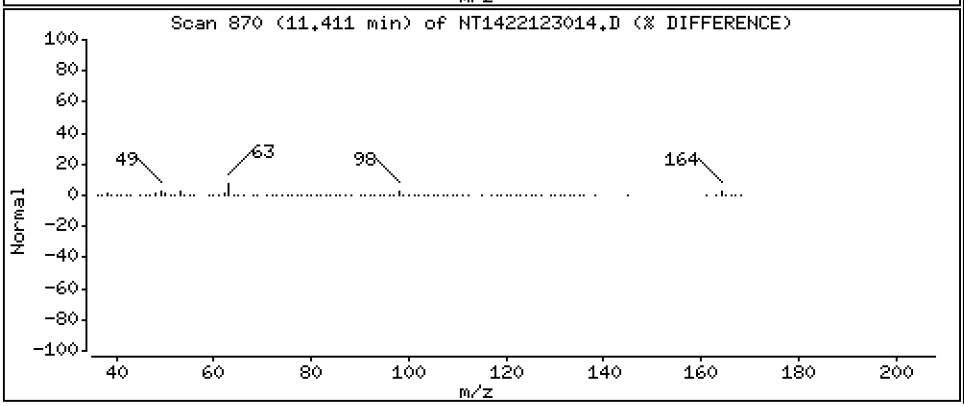












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

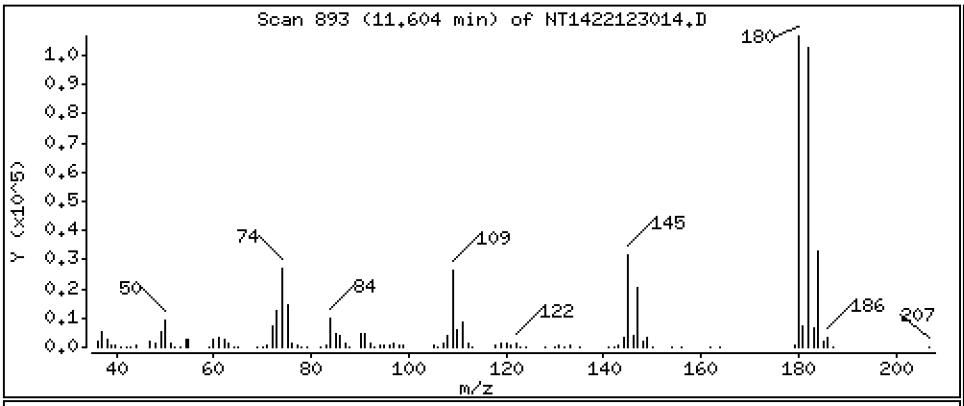
Operator: VTS

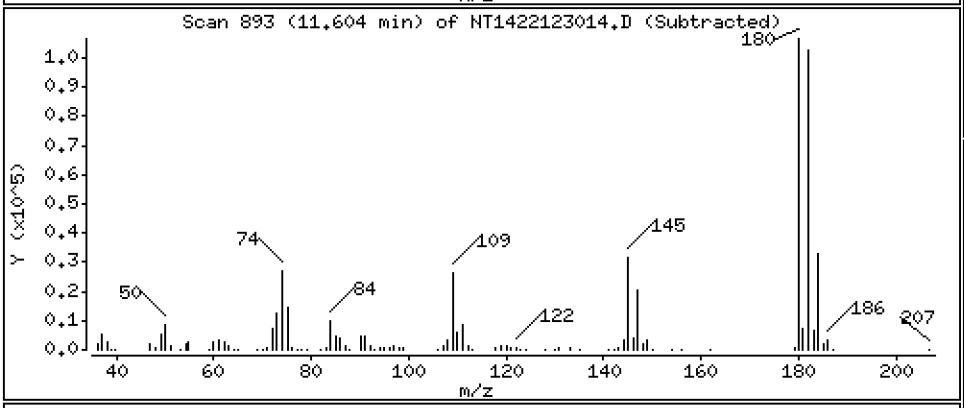
Column phase: ZB-5msi

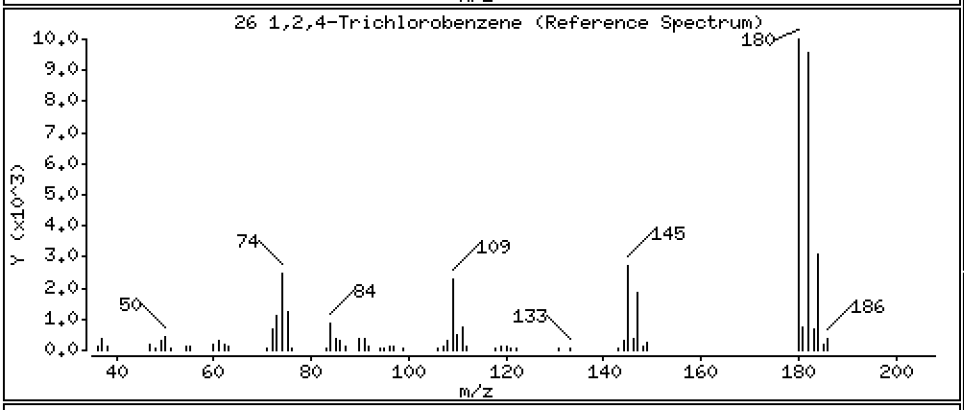
Column diameter: 0.25

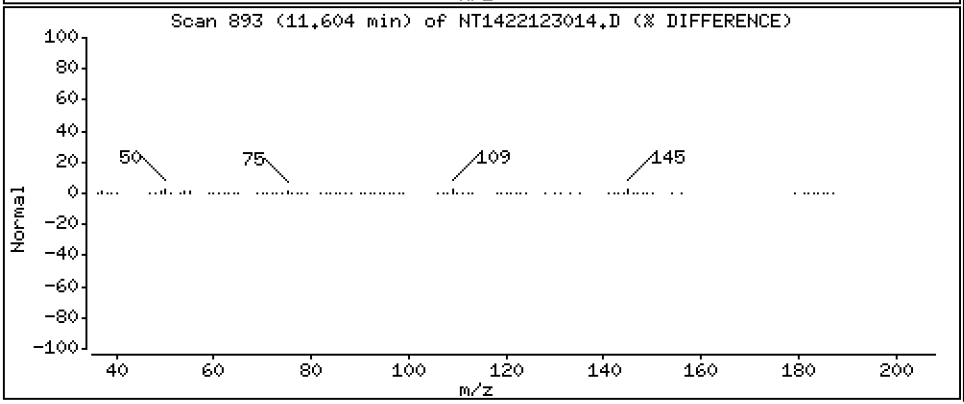
26 1,2,4-Trichlorobenzene

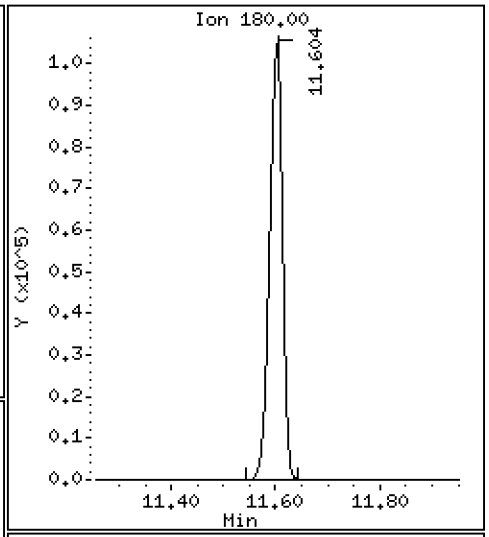
Concentration: 4.464 ug/mL

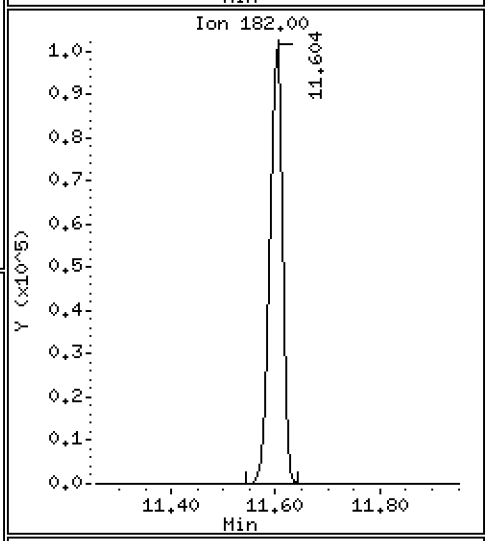


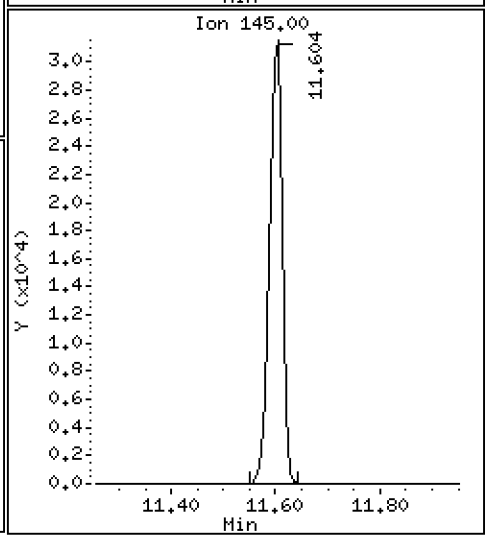












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

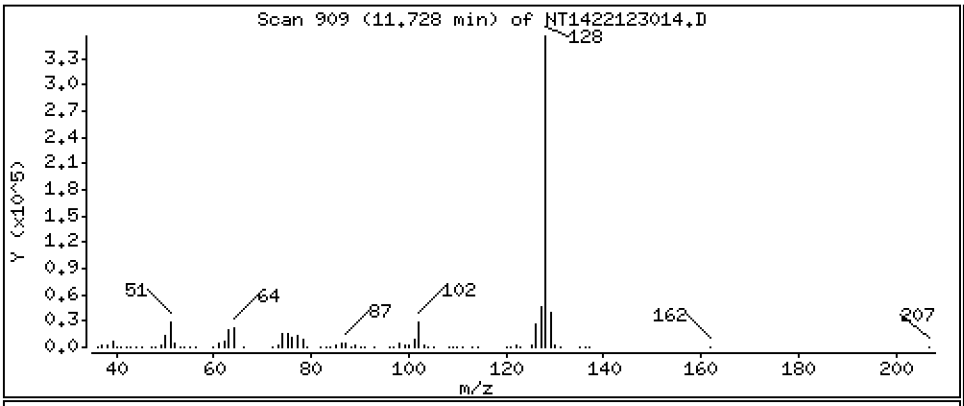
Operator: VTS

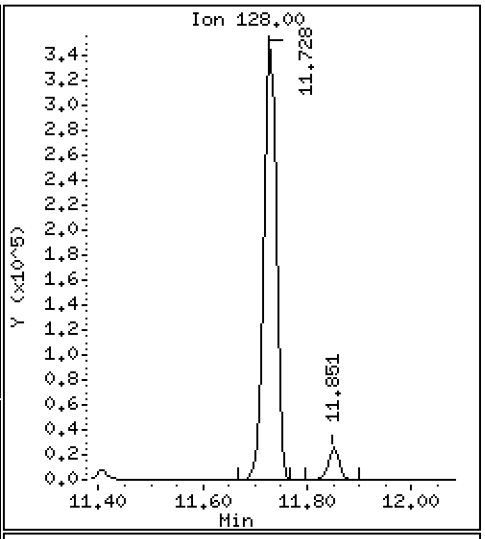
Column phase: ZB-5msi

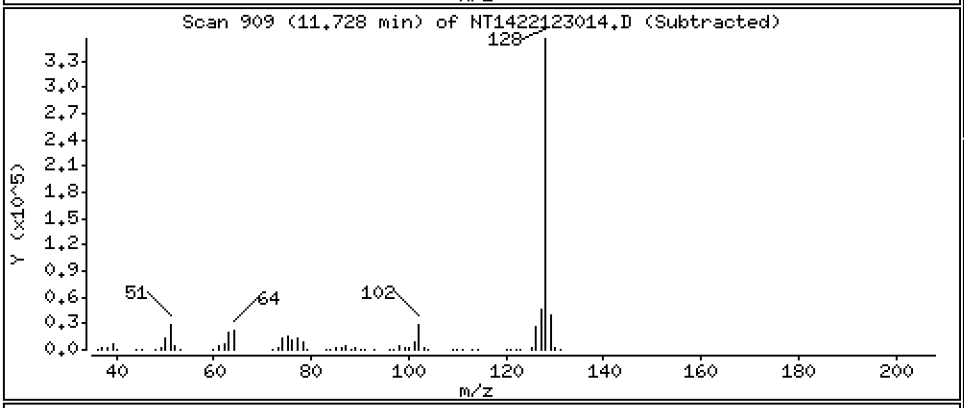
Column diameter: 0.25

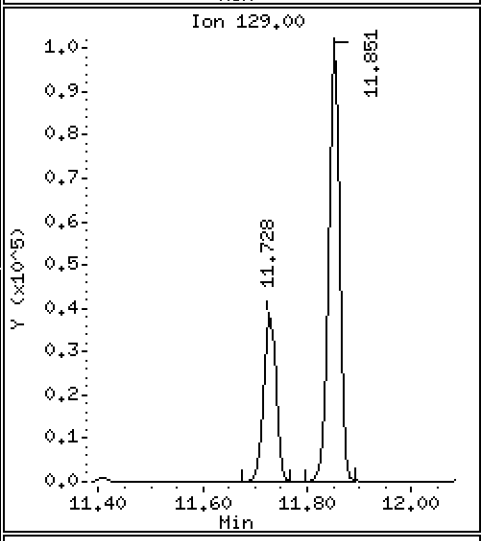
28 Naphthalene

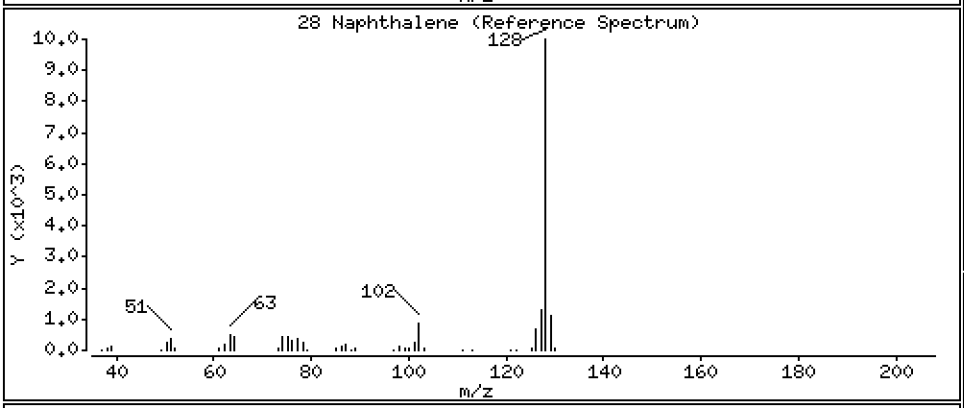
Concentration: 4.578 ug/mL

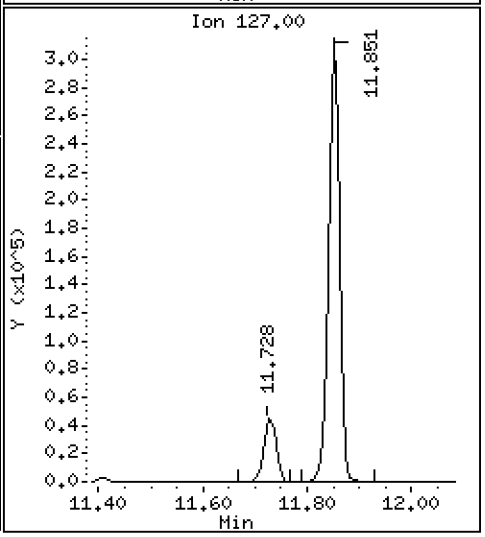


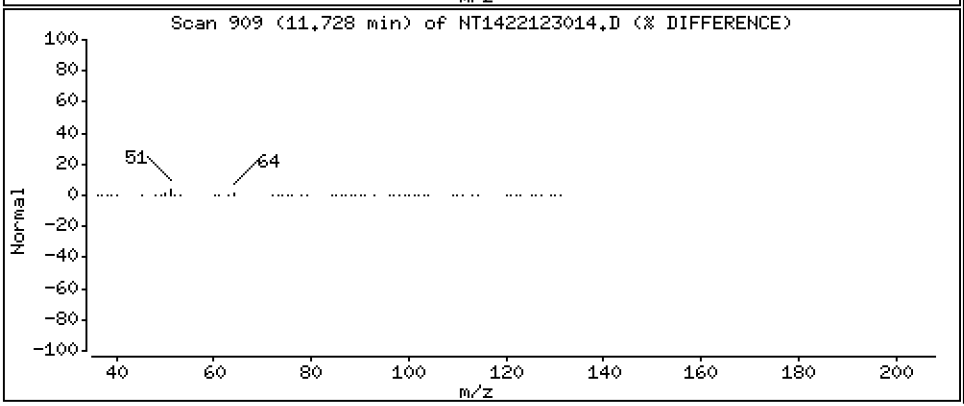












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

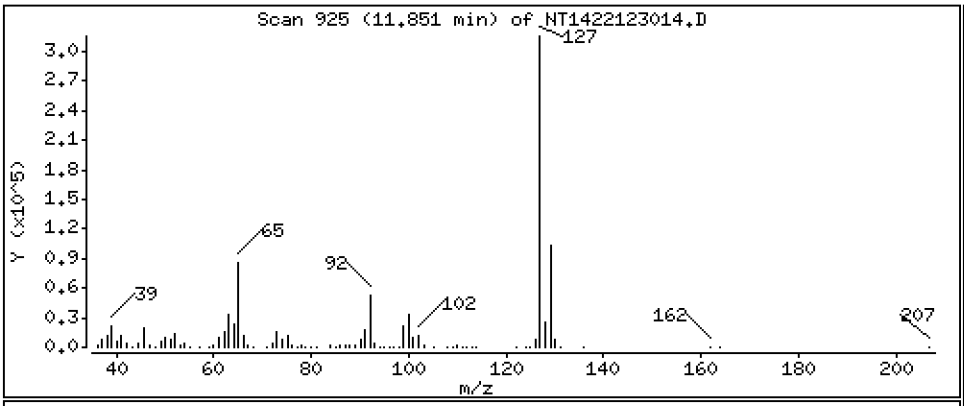
Operator: VTS

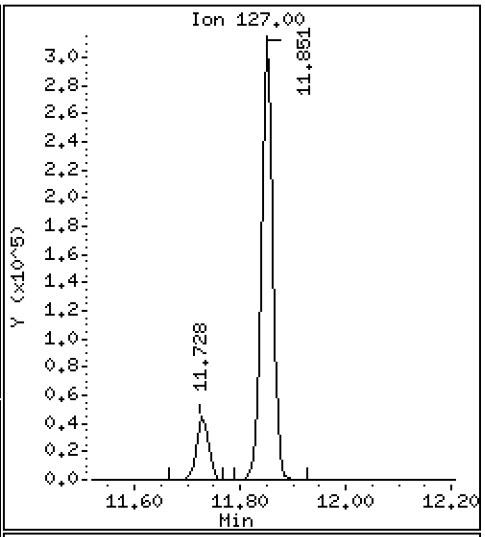
Column phase: ZB-5msi

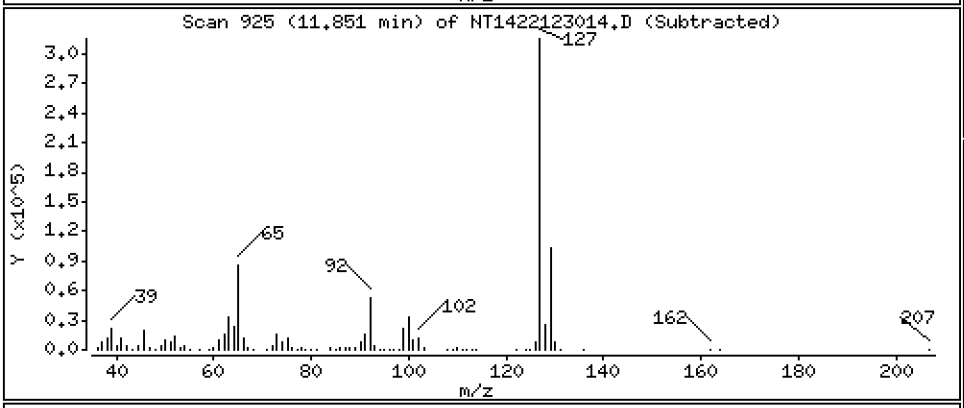
Column diameter: 0.25

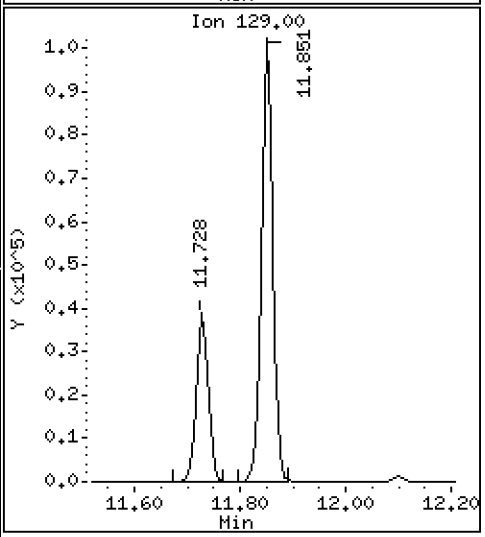
29 4-Chloroaniline

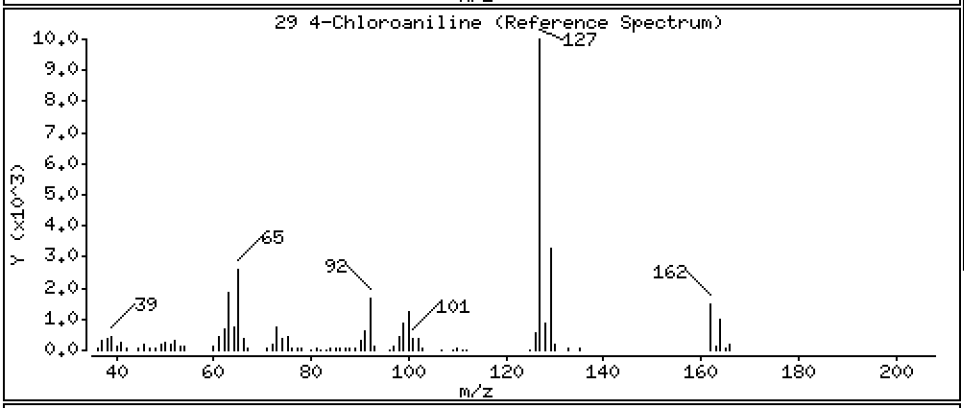
Concentration: 9.732 ug/mL

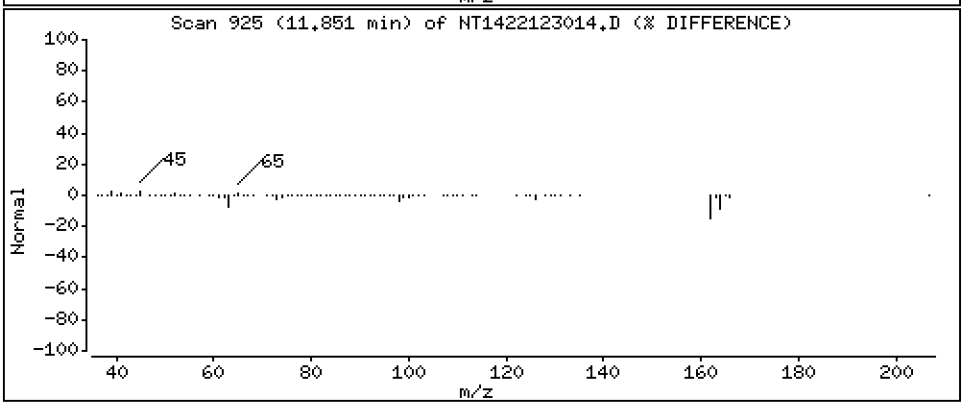












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

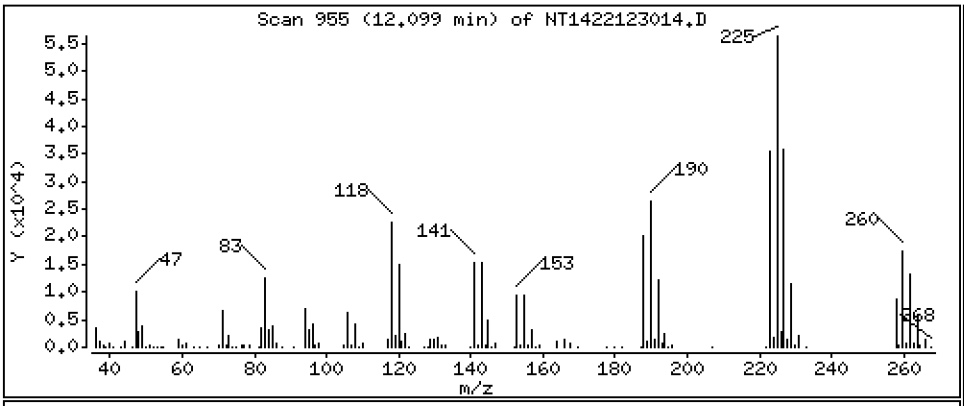
Operator: VTS

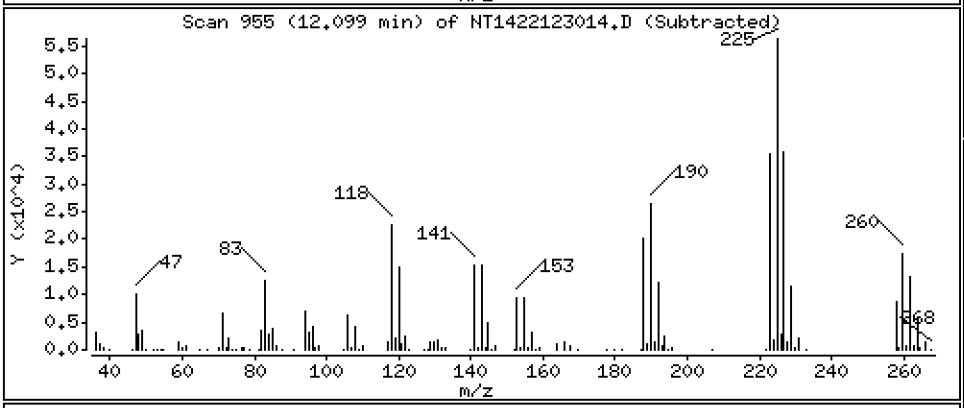
Column phase: ZB-5msi

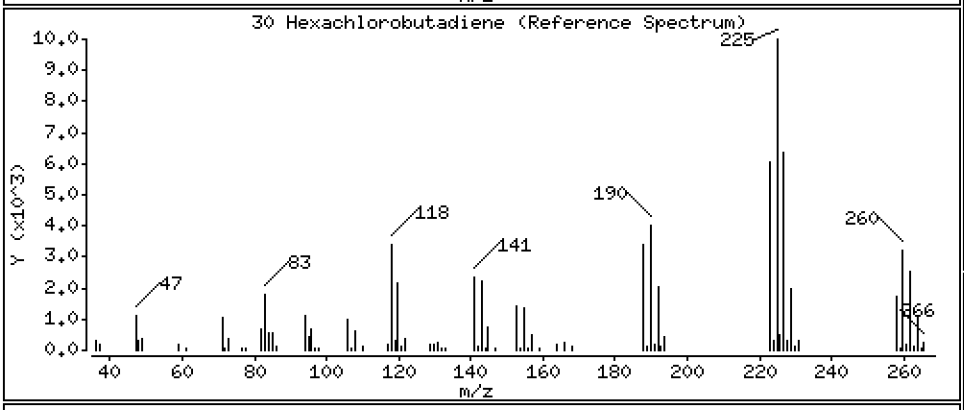
Column diameter: 0.25

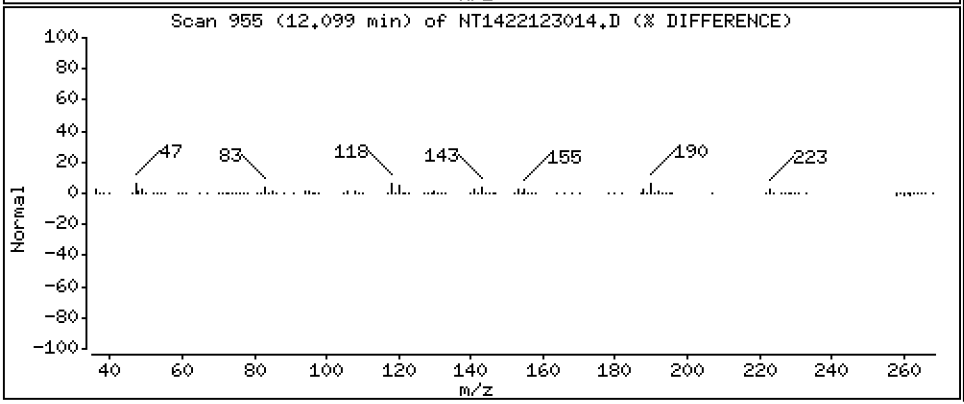
30 Hexachlorobutadiene

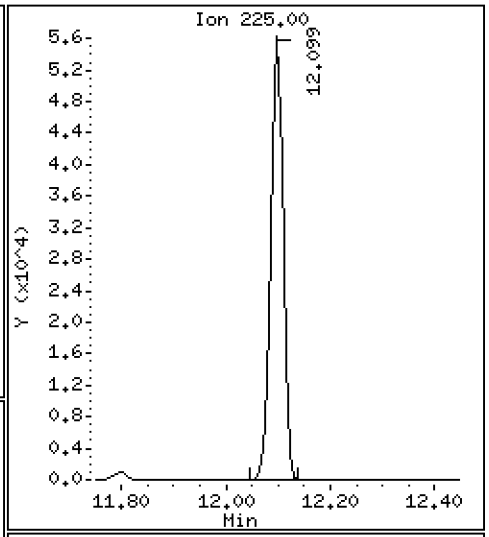
Concentration: 4.536 ug/mL

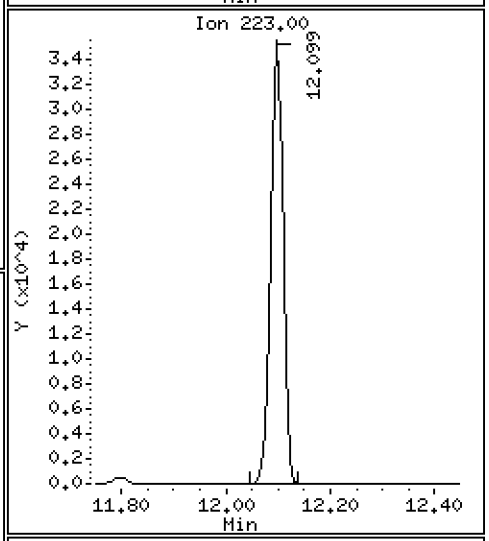


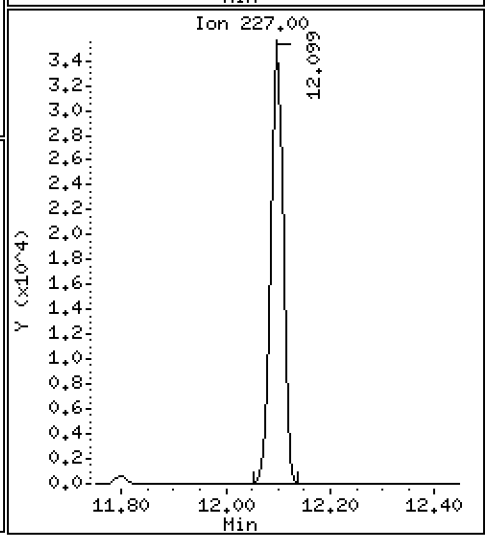












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

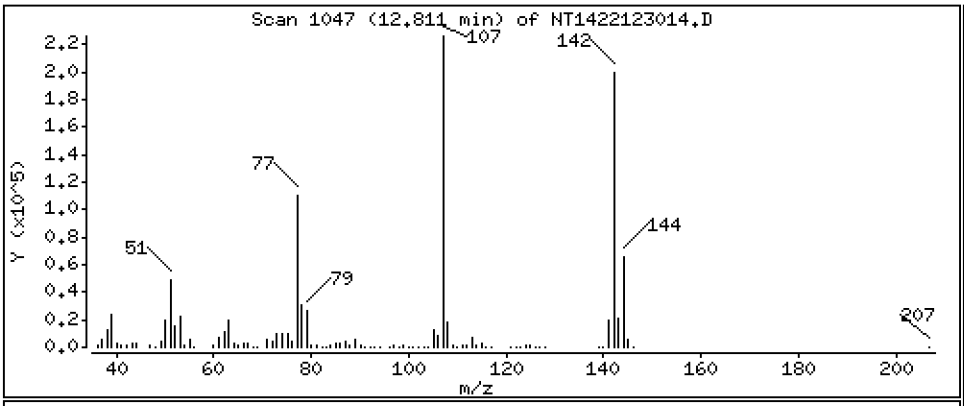
Operator: VTS

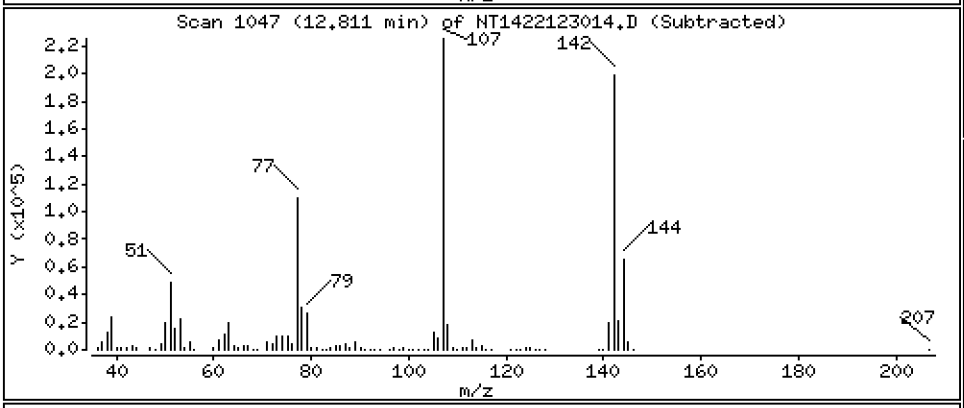
Column phase: ZB-5msi

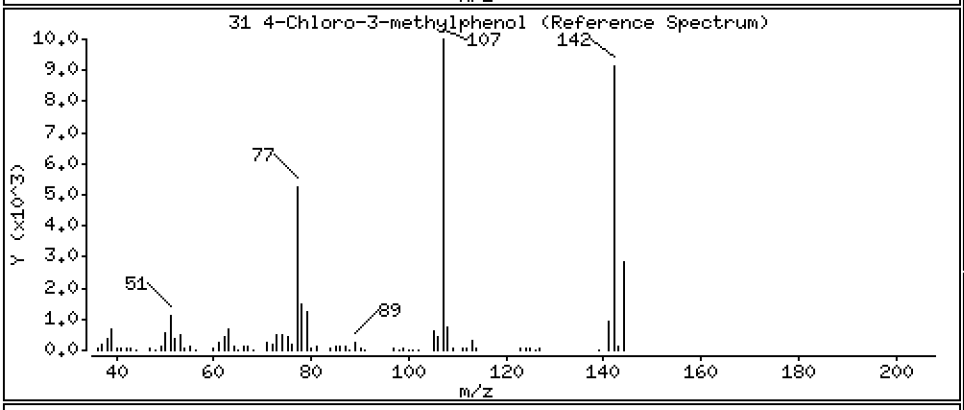
Column diameter: 0.25

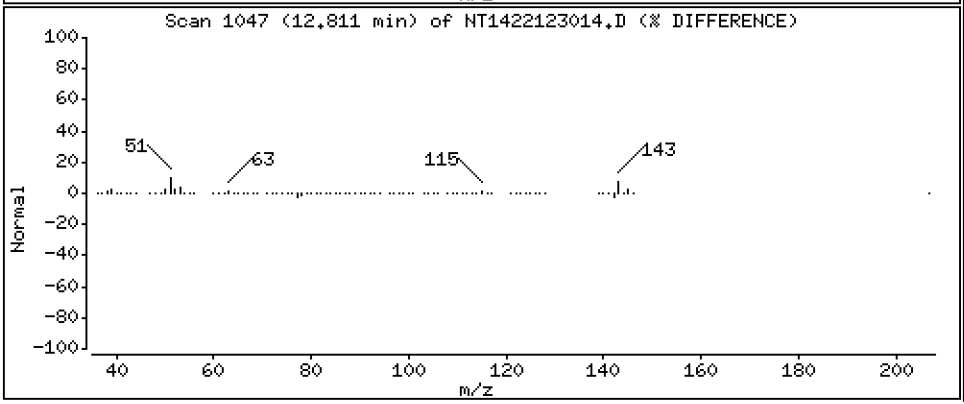
31 4-Chloro-3-methylphenol

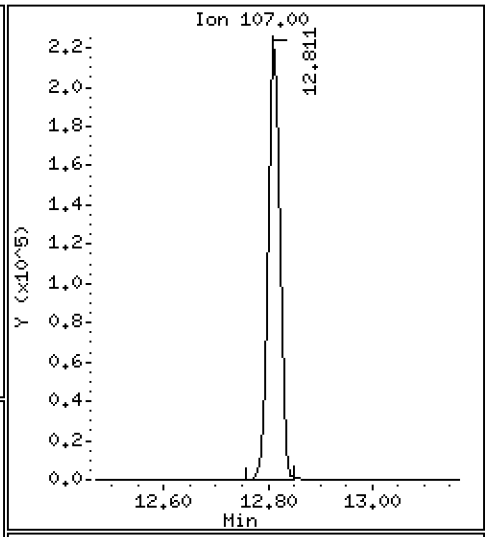
Concentration: 10.02 ug/mL

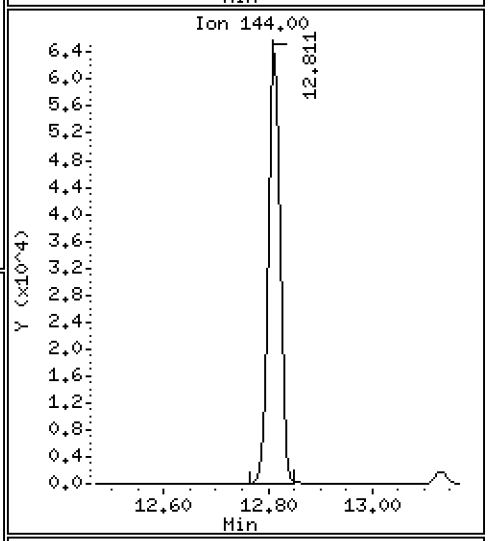


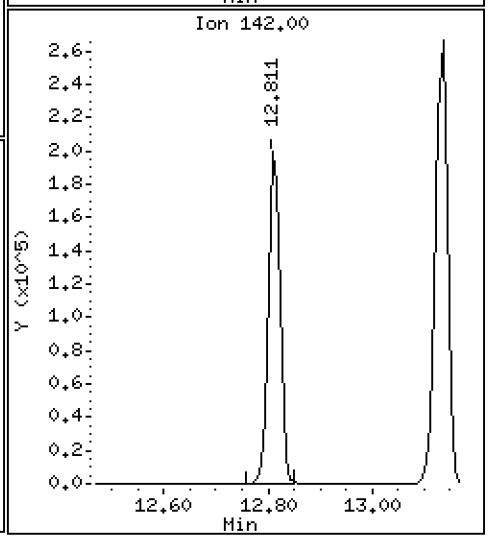












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

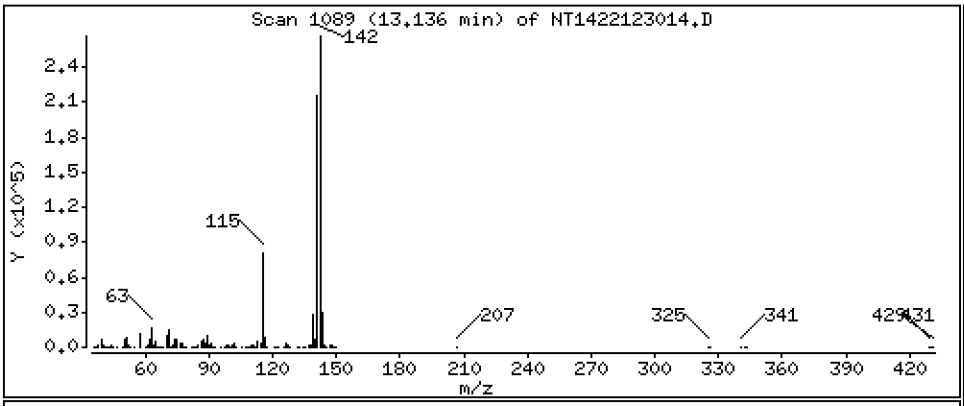
Operator: VTS

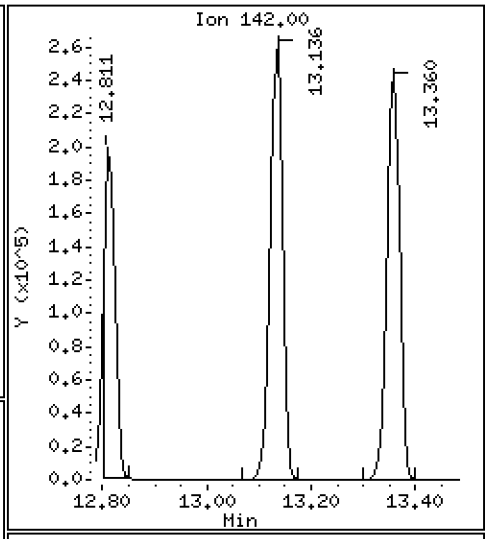
Column phase: ZB-5msi

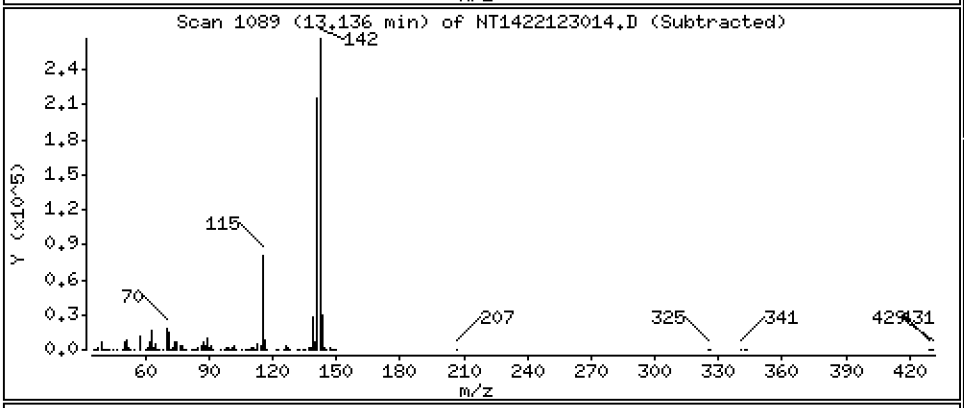
Column diameter: 0.25

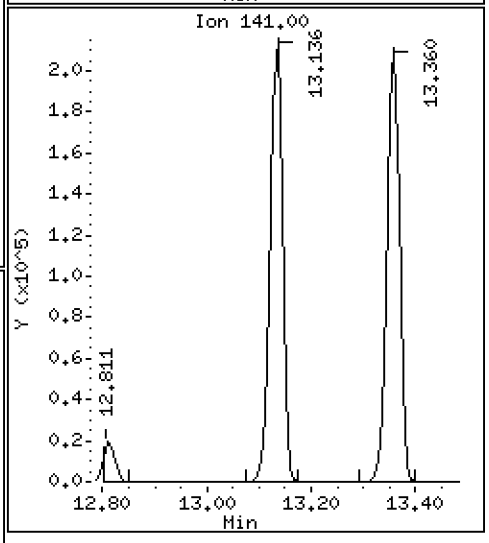
32 2-Methylnaphthalene

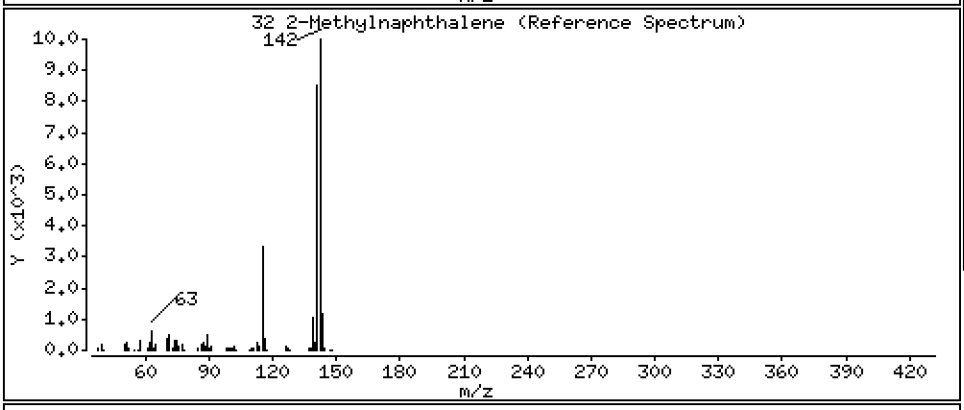
Concentration: 4.684 ug/mL

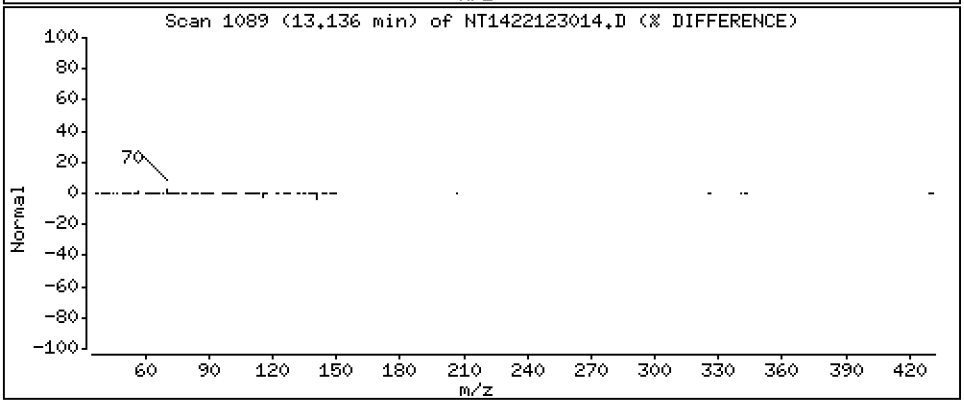












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

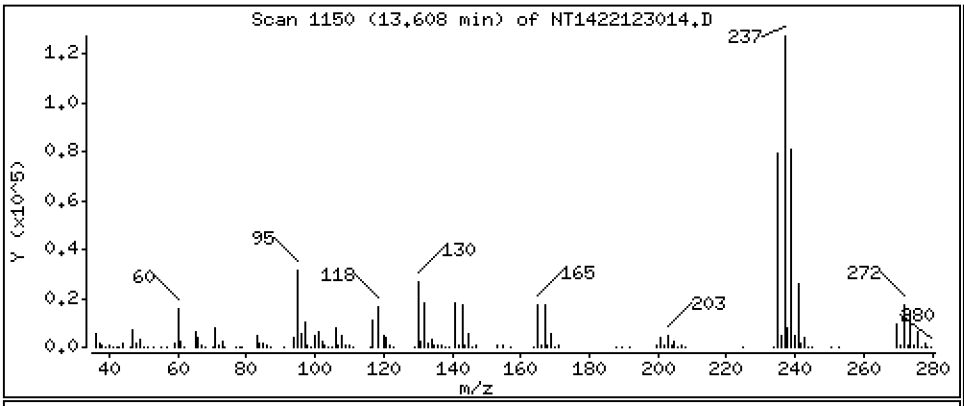
Operator: VTS

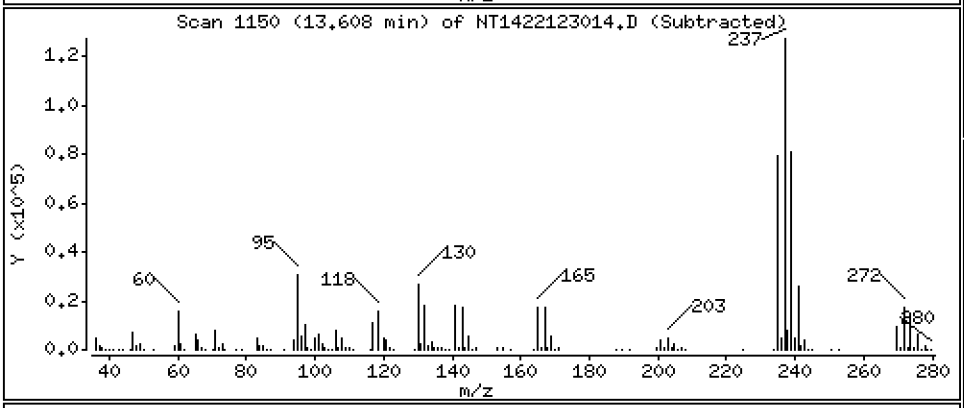
Column phase: ZB-5msi

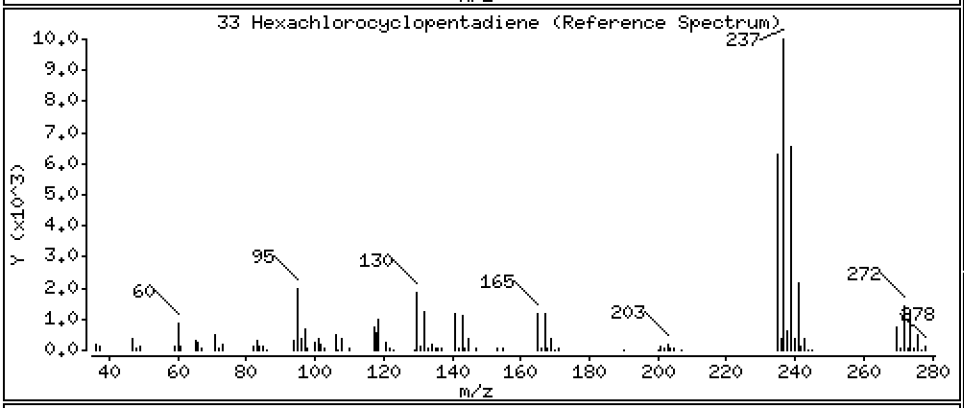
Column diameter: 0.25

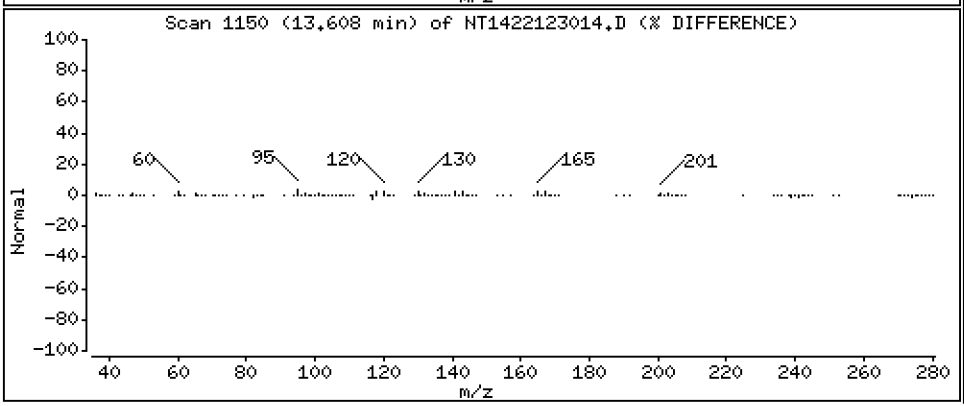
33 Hexachlorocyclopentadiene

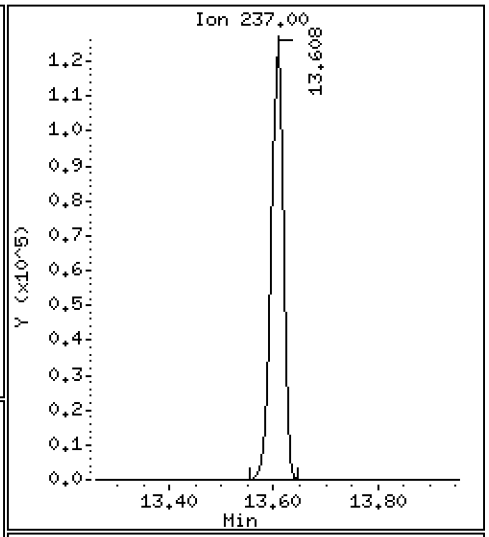
Concentration: 9.679 ug/mL

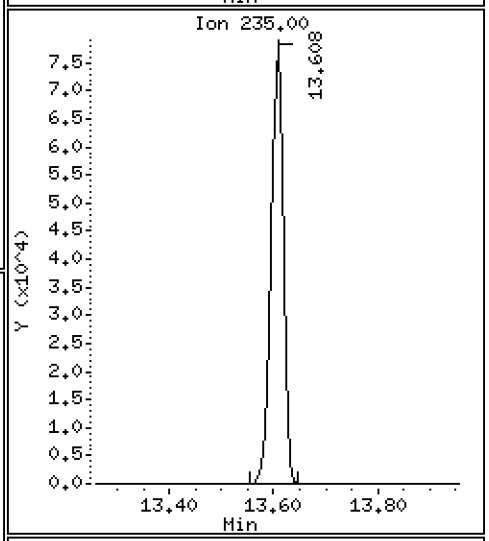


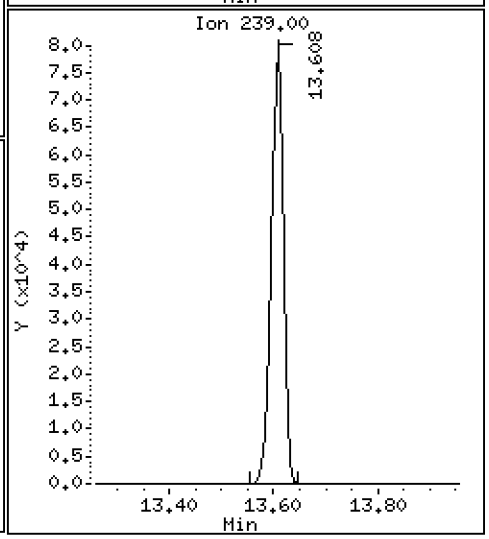












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

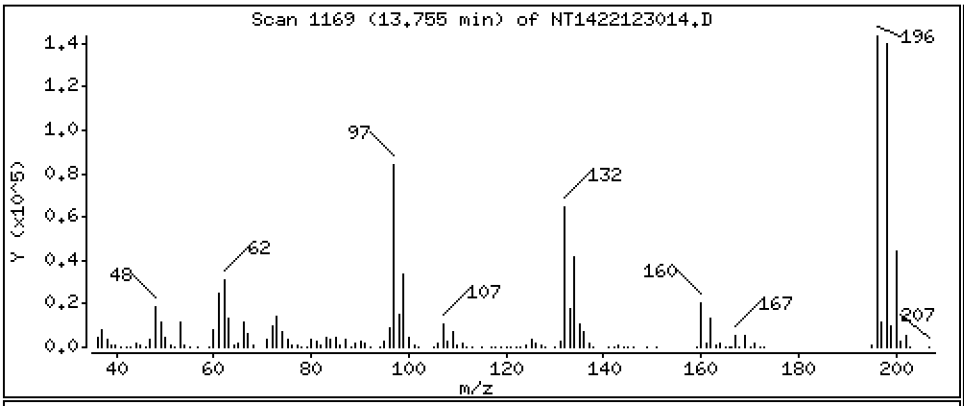
Operator: VTS

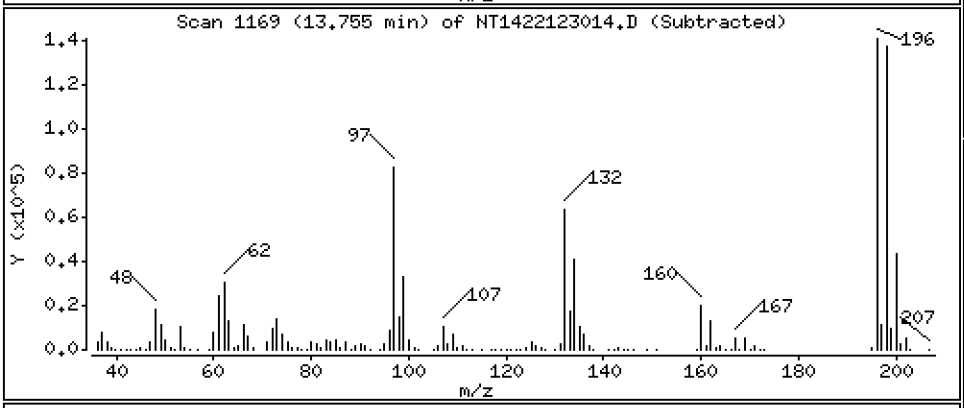
Column phase: ZB-5msi

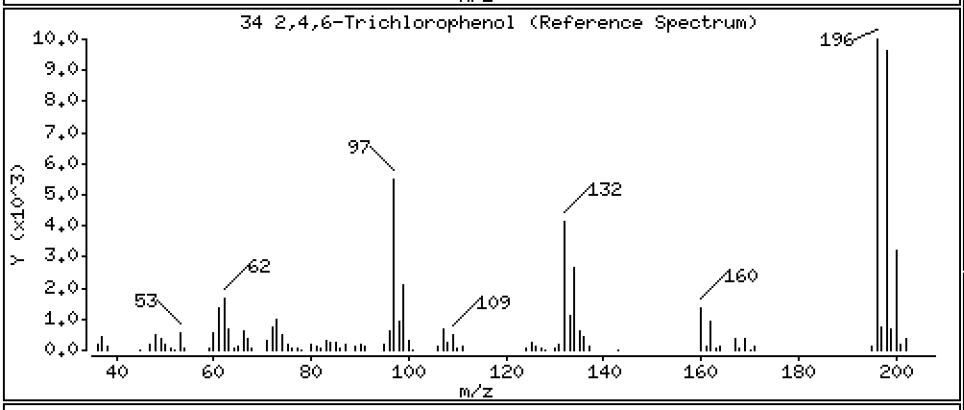
Column diameter: 0.25

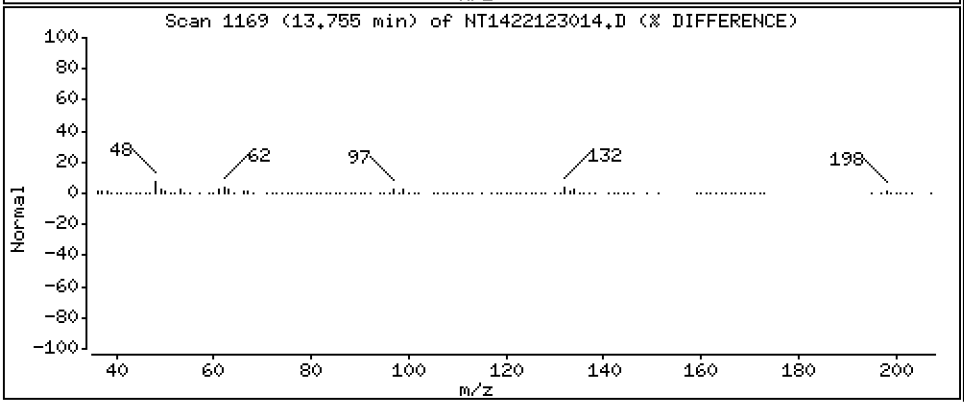
34 2,4,6-Trichlorophenol

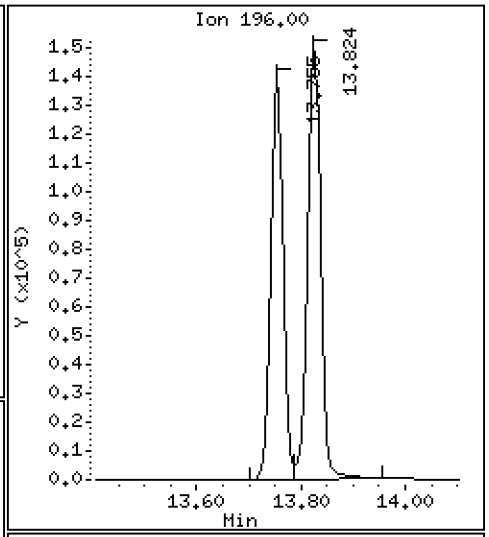
Concentration: 9.832 ug/mL

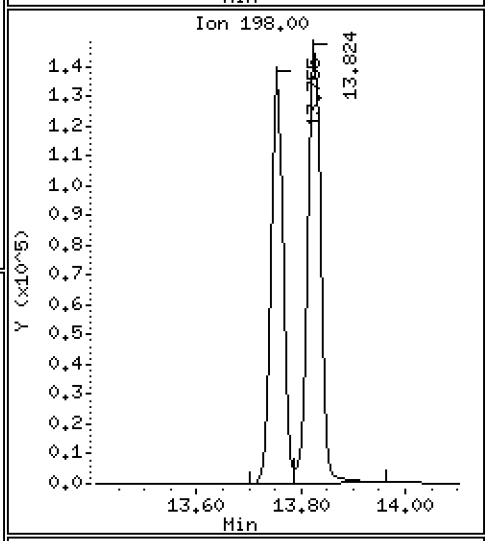


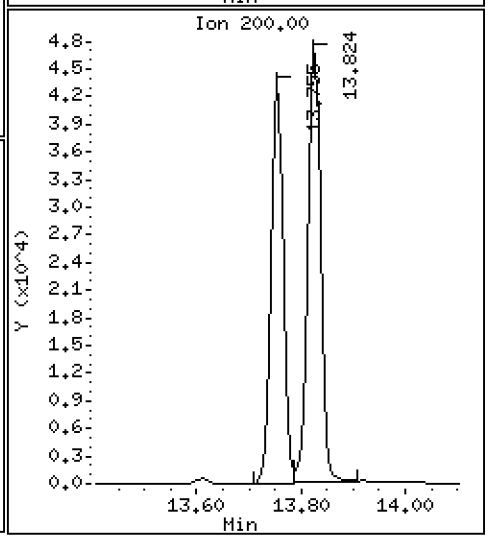












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

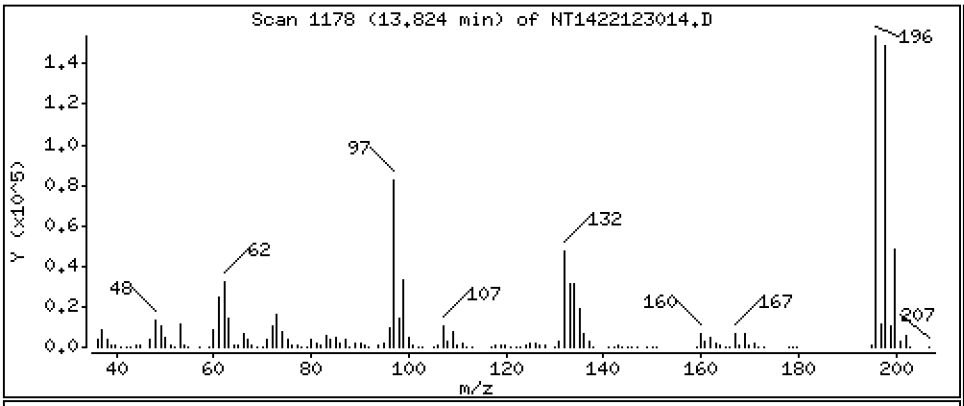
Operator: VTS

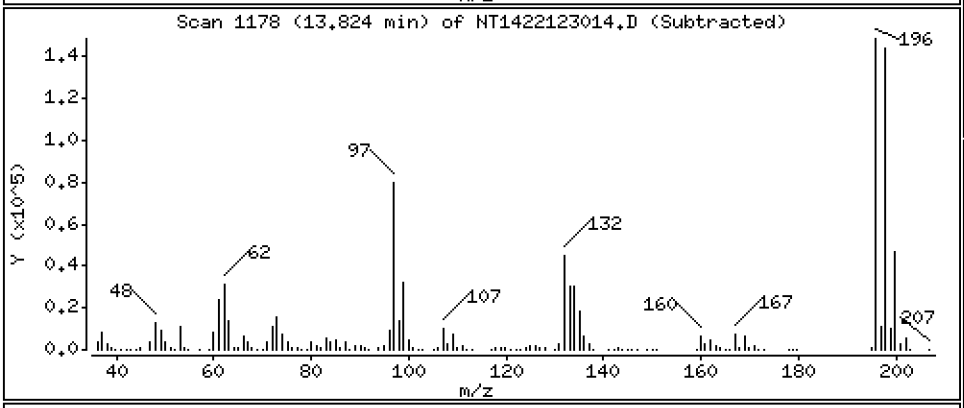
Column phase: ZB-5msi

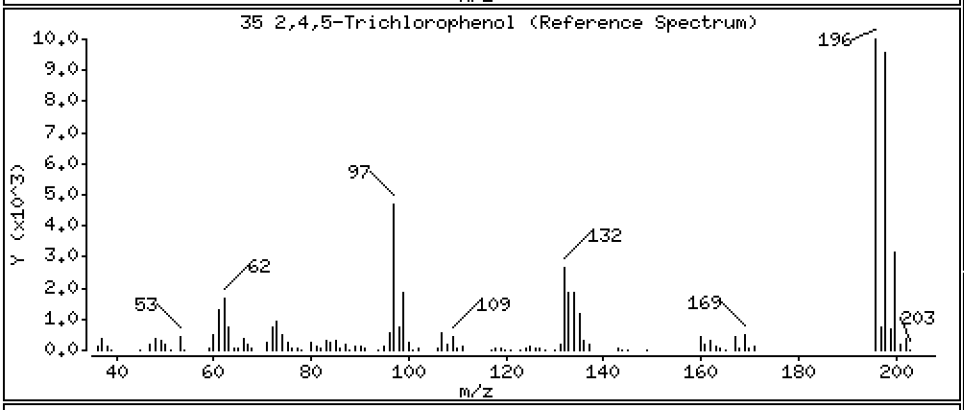
Column diameter: 0.25

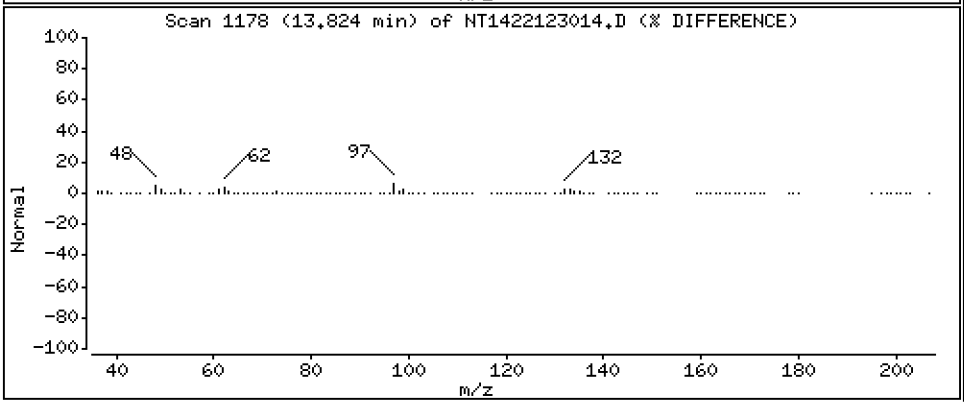
35 2,4,5-Trichlorophenol

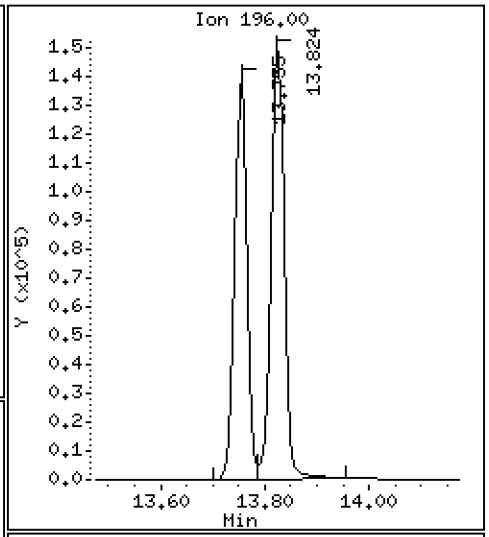
Concentration: 9.857 ug/mL

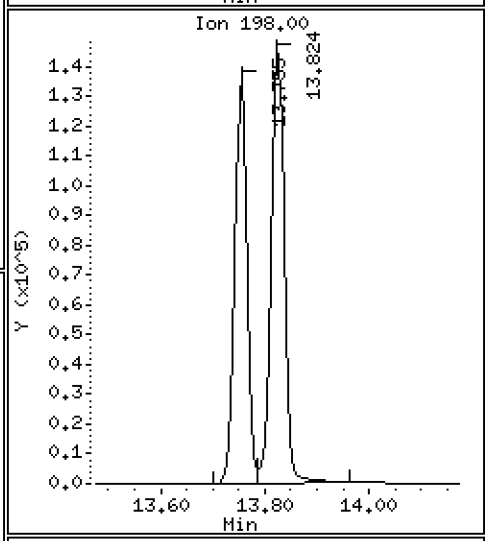


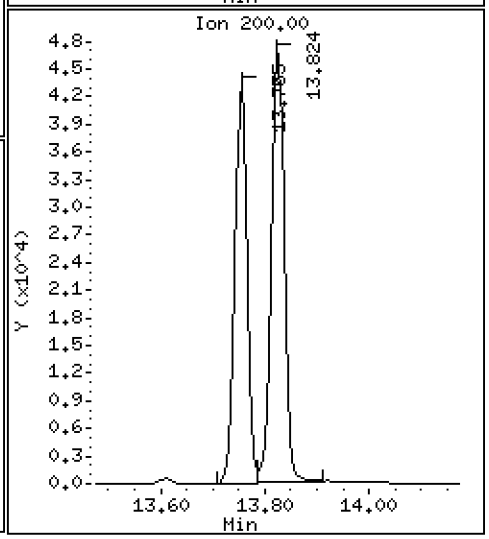












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

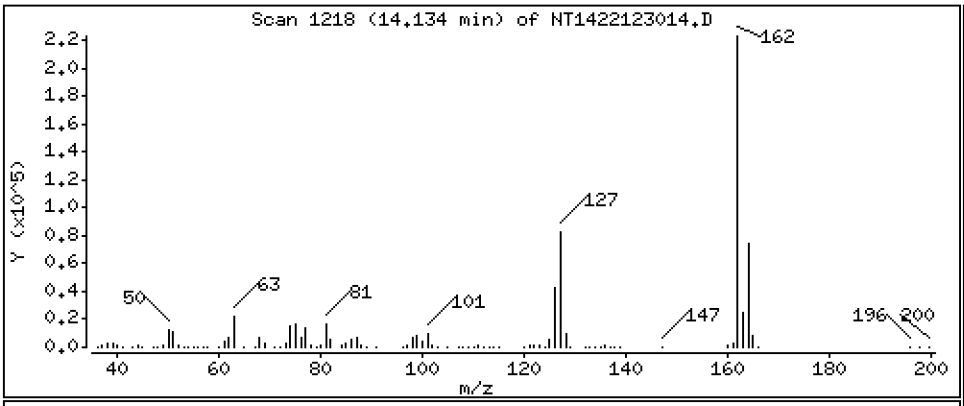
Operator: VTS

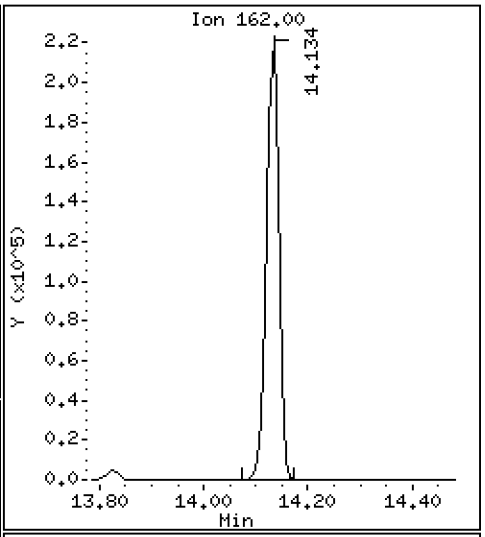
Column phase: ZB-5msi

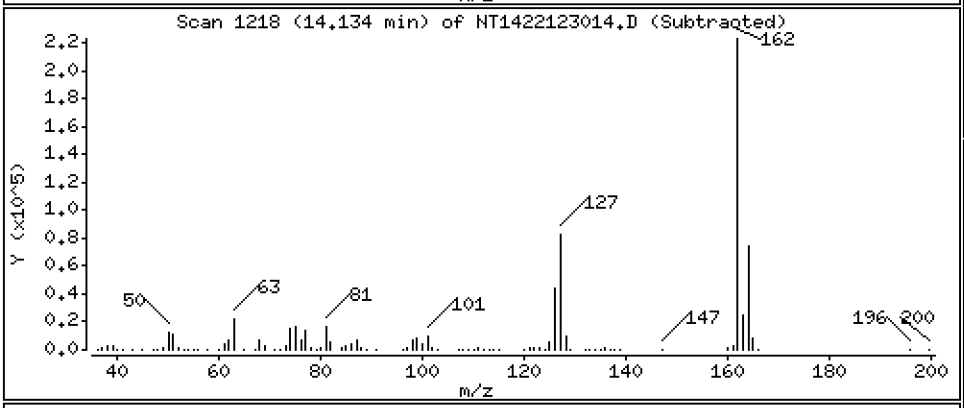
Column diameter: 0.25

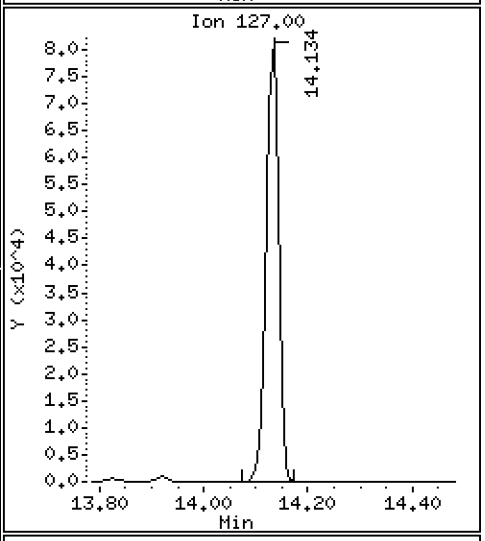
37 2-Chloronaphthalene

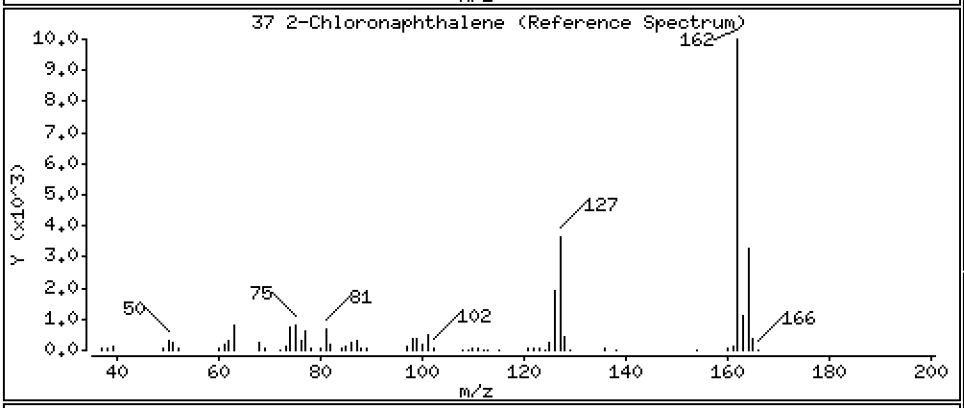
Concentration: 4.627 ug/mL

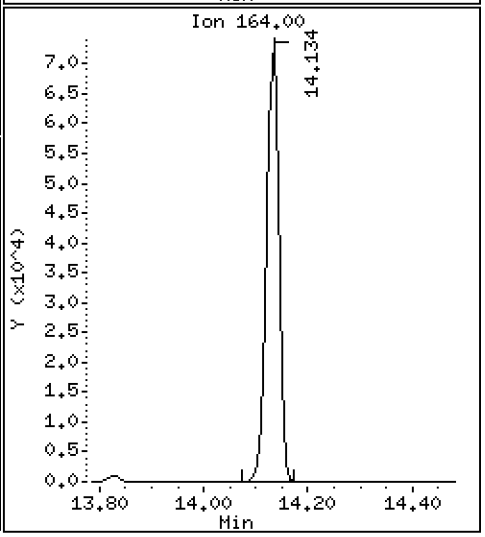


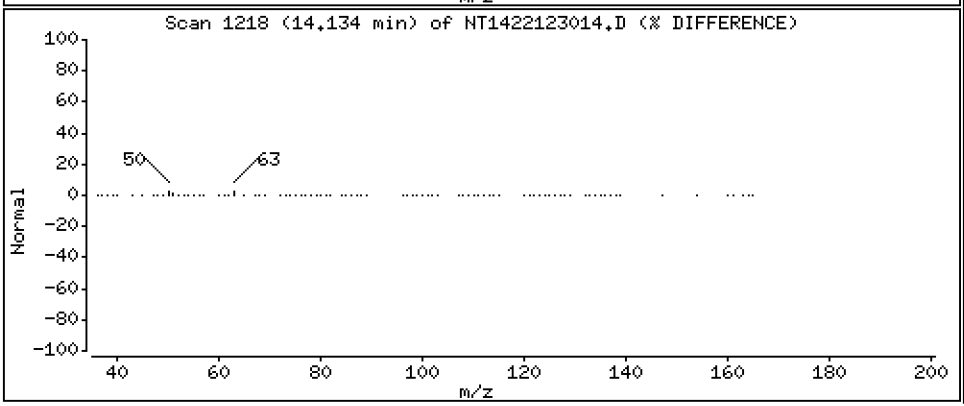












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

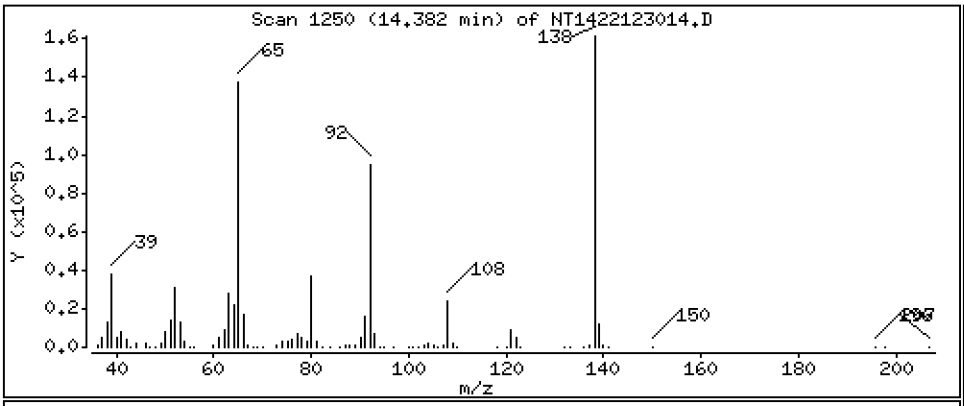
Operator: VTS

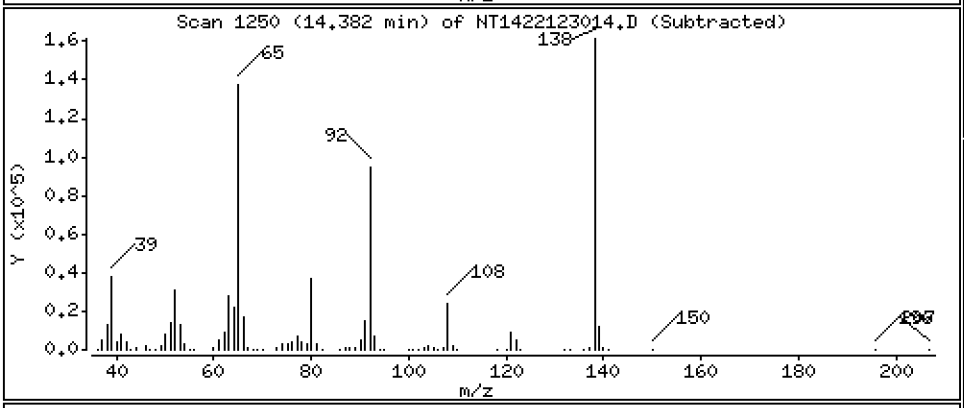
Column phase: ZB-5msi

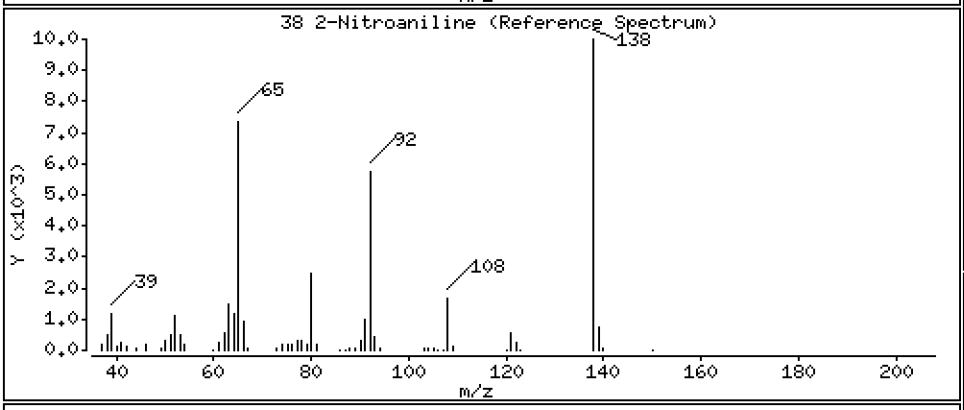
Column diameter: 0.25

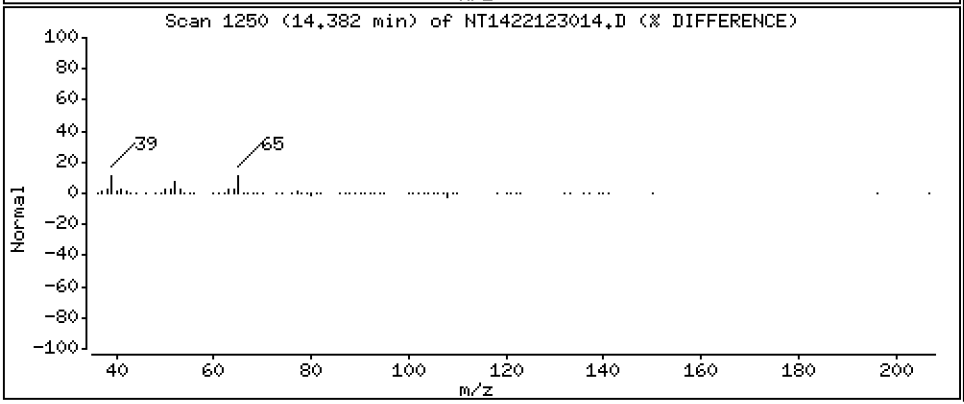
38 2-Nitroaniline

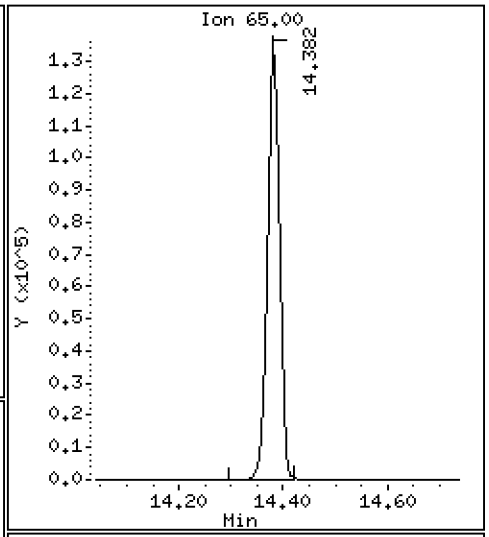
Concentration: 10.67 ug/mL

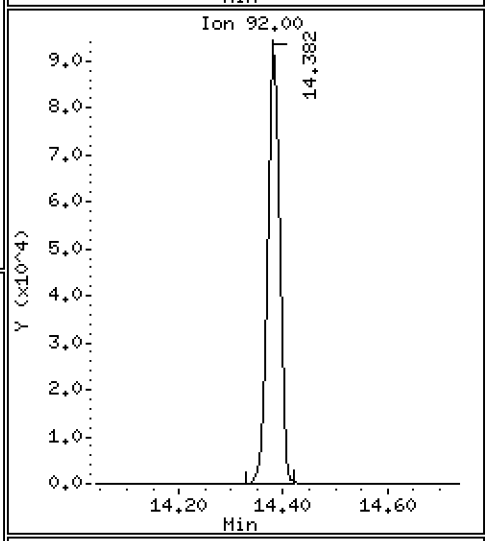


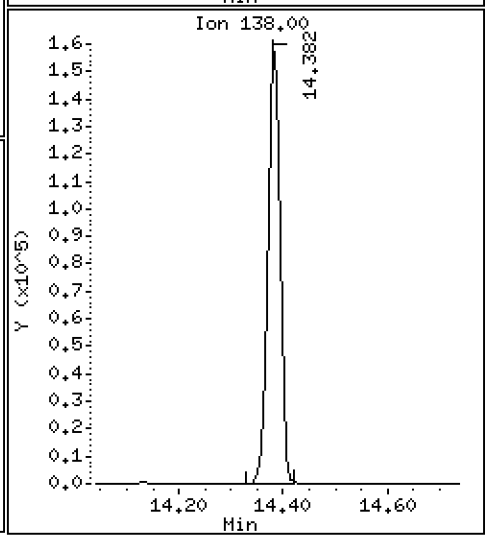












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

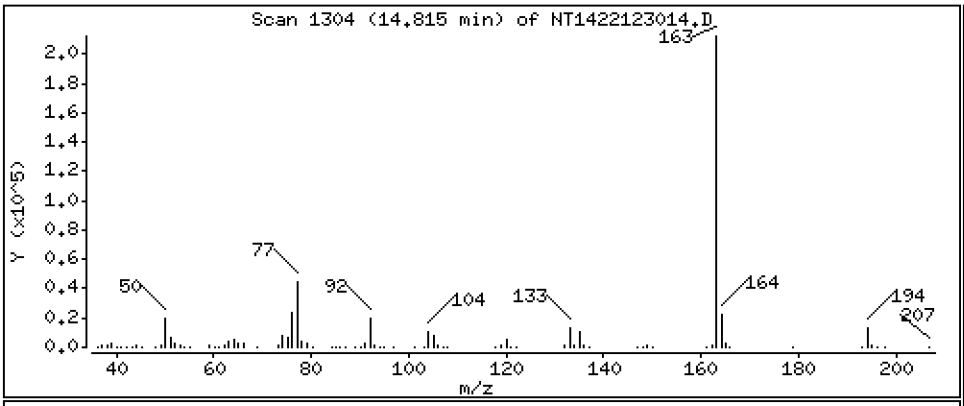
Operator: VTS

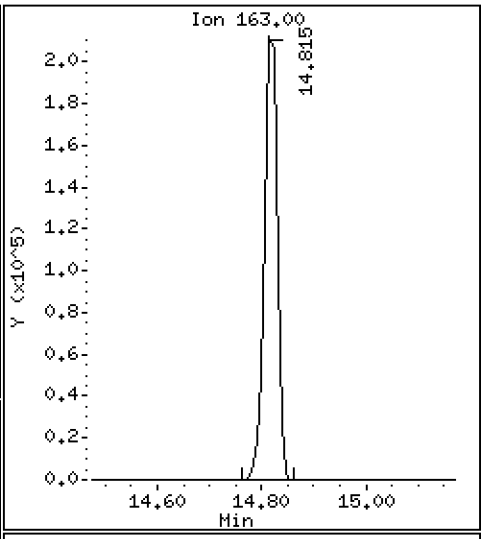
Column phase: ZB-5msi

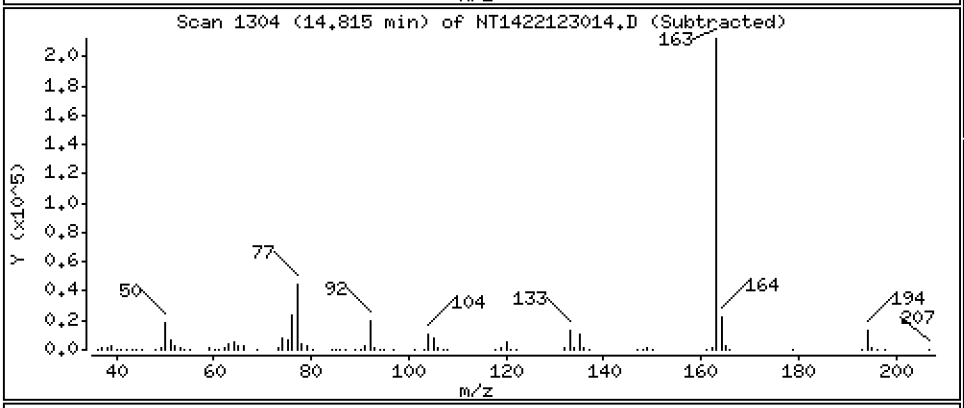
Column diameter: 0.25

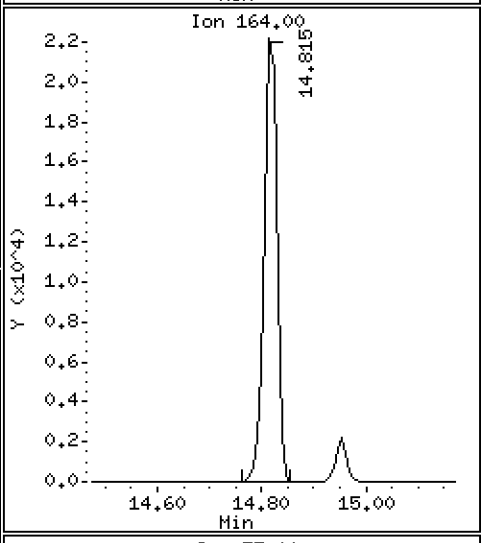
39 Dimethylphthalate

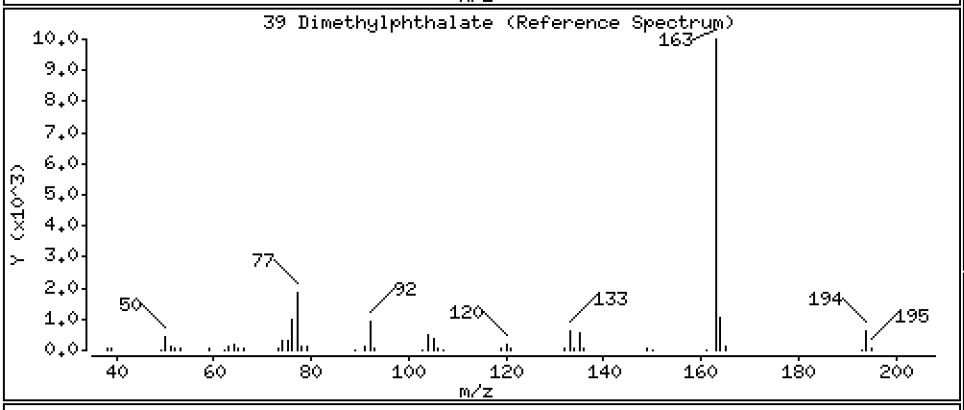
Concentration: 4.718 ug/mL

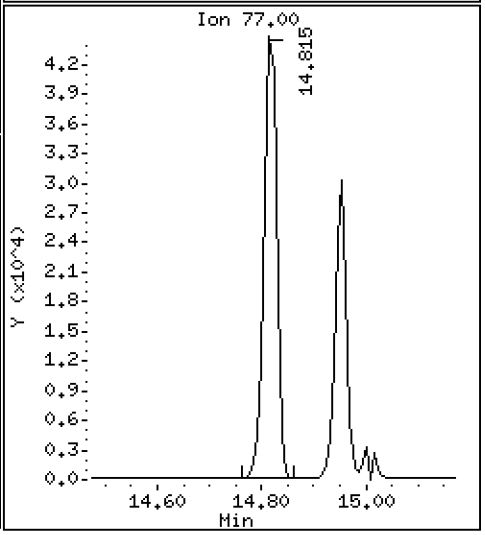


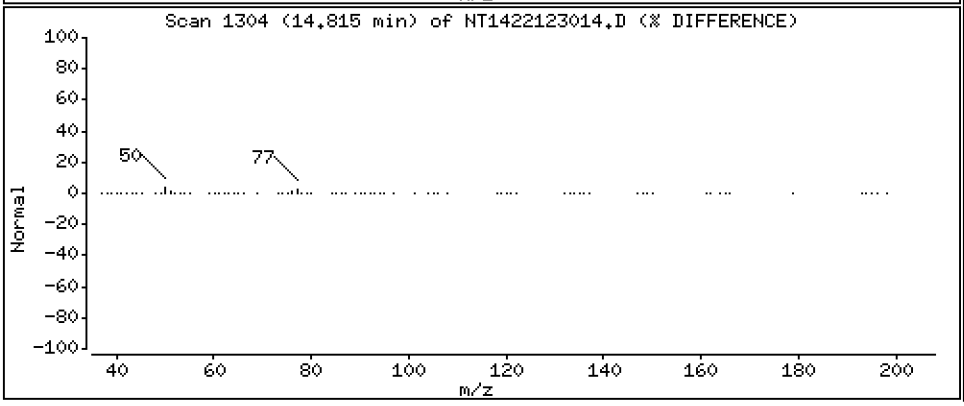












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

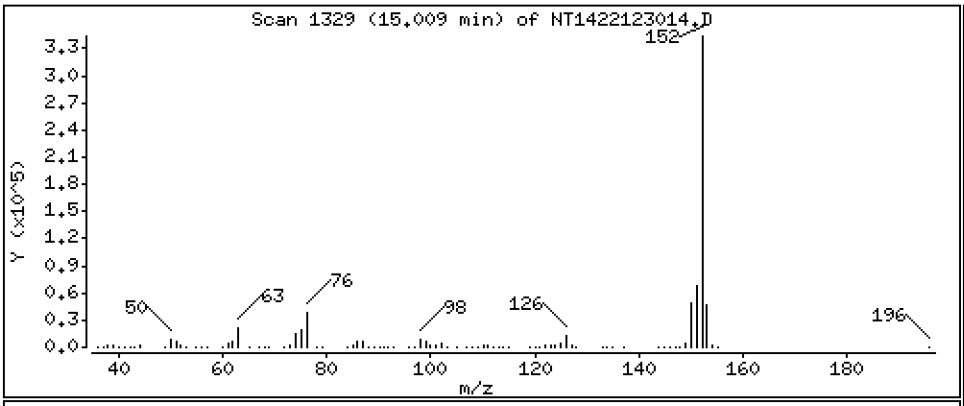
Operator: VTS

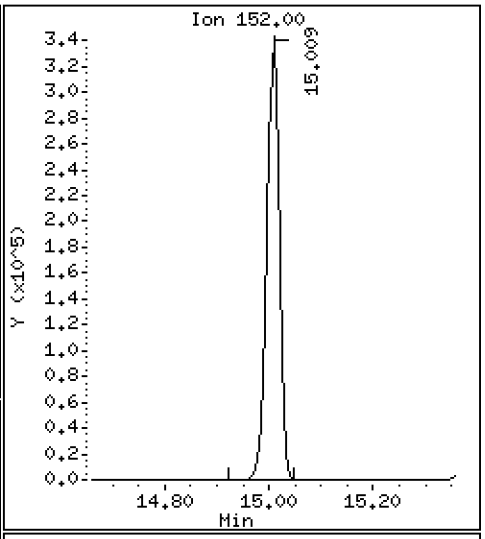
Column phase: ZB-5msi

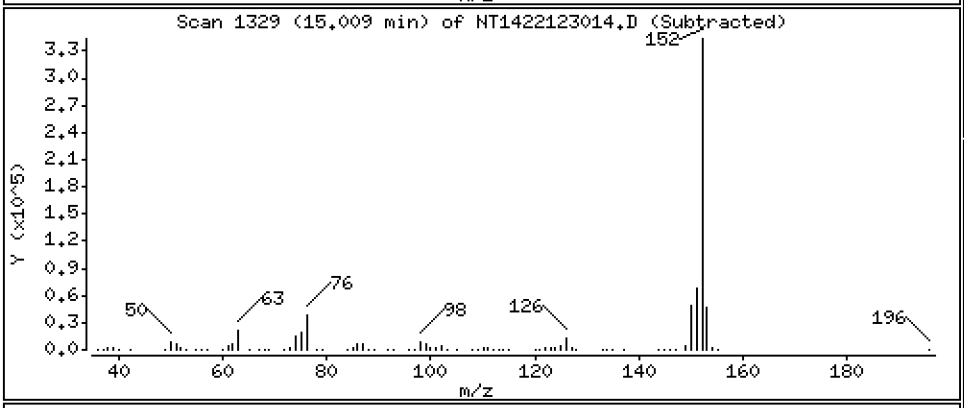
Column diameter: 0.25

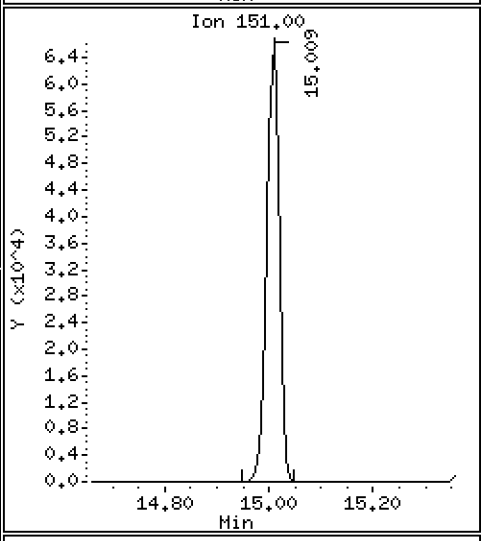
40 Acenaphthylene

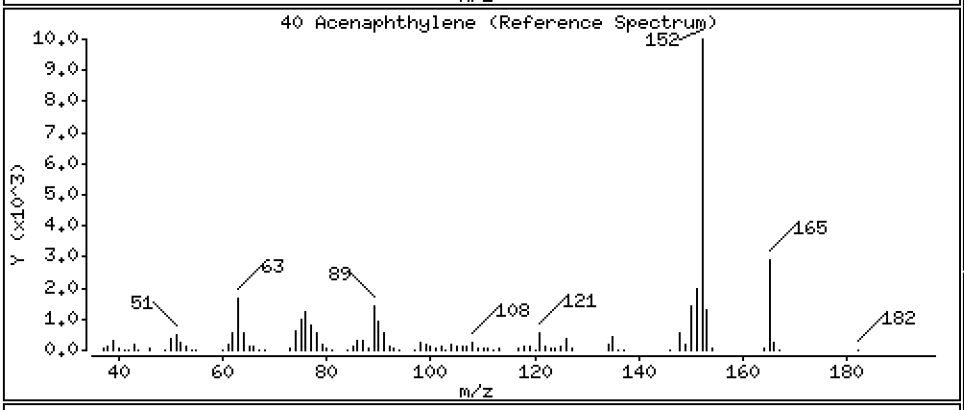
Concentration: 4.713 ug/mL

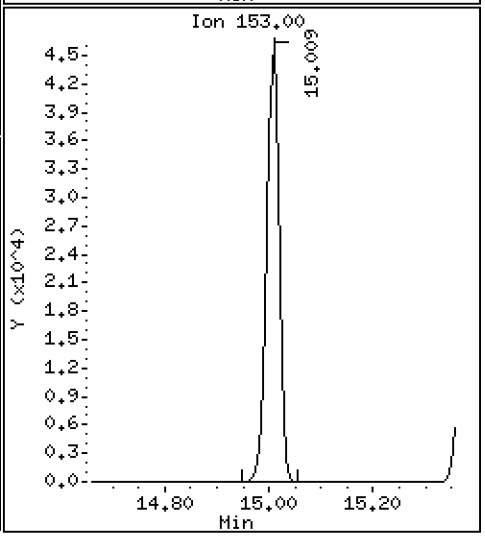


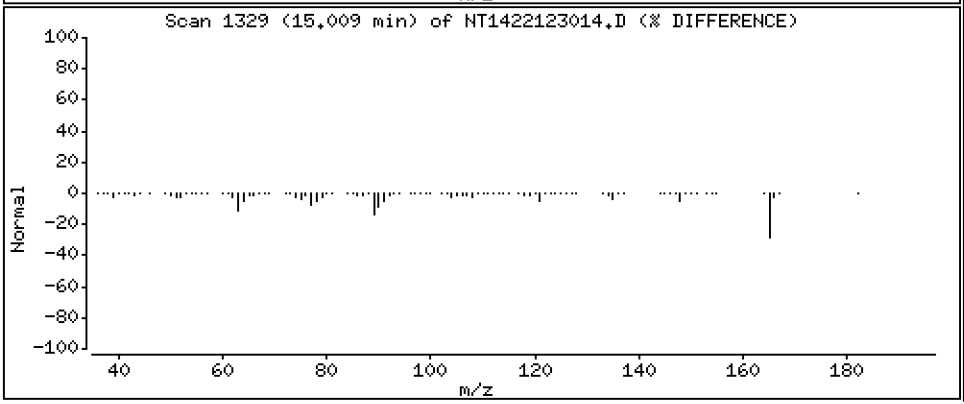












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

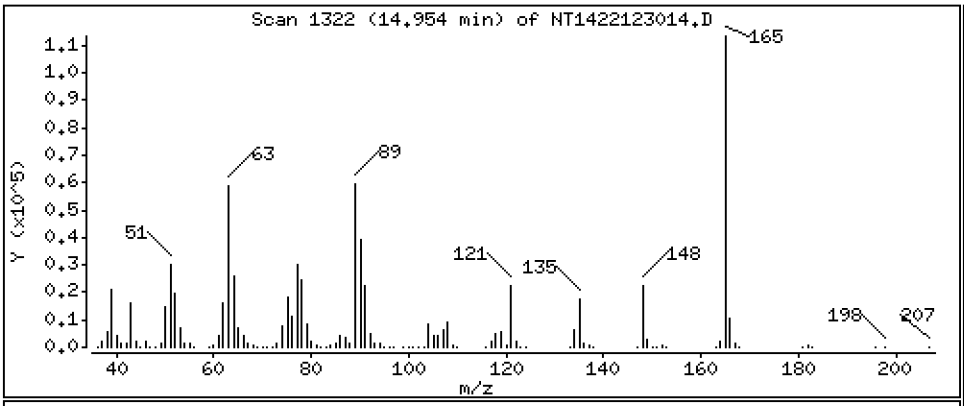
Operator: VTS

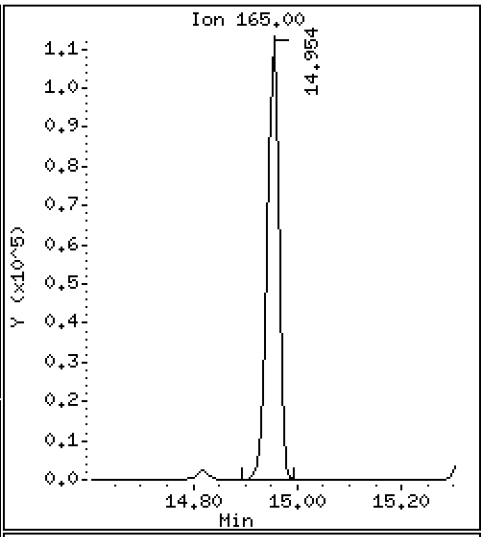
Column phase: ZB-5msi

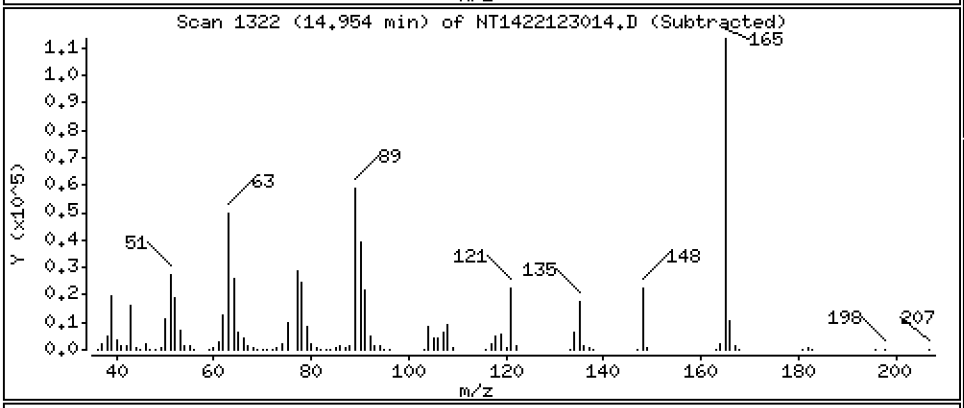
Column diameter: 0.25

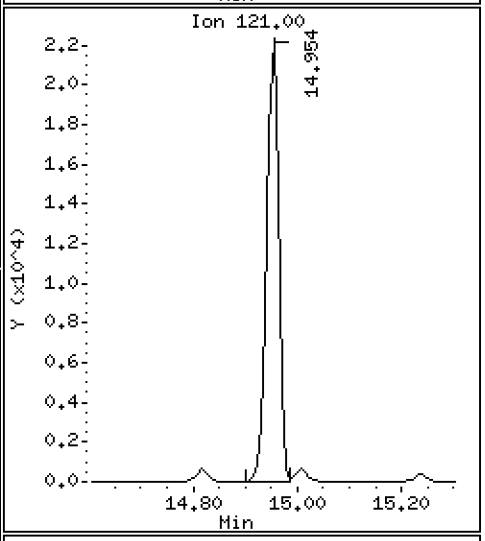
41 2,6-Dinitrotoluene

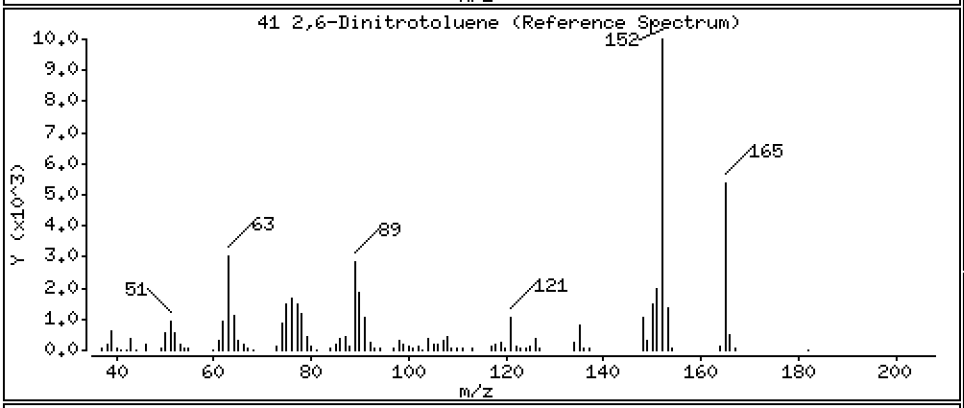
Concentration: 9.927 ug/mL

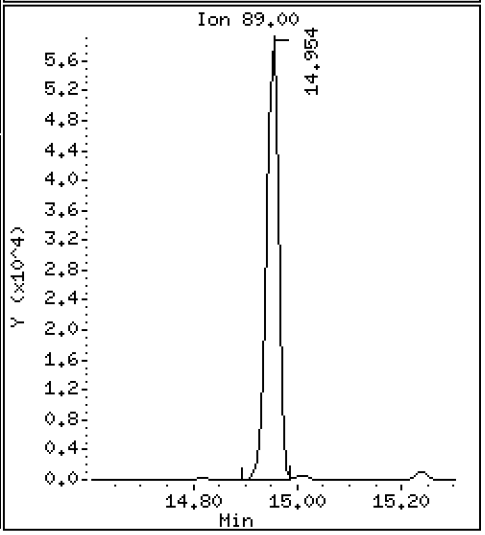


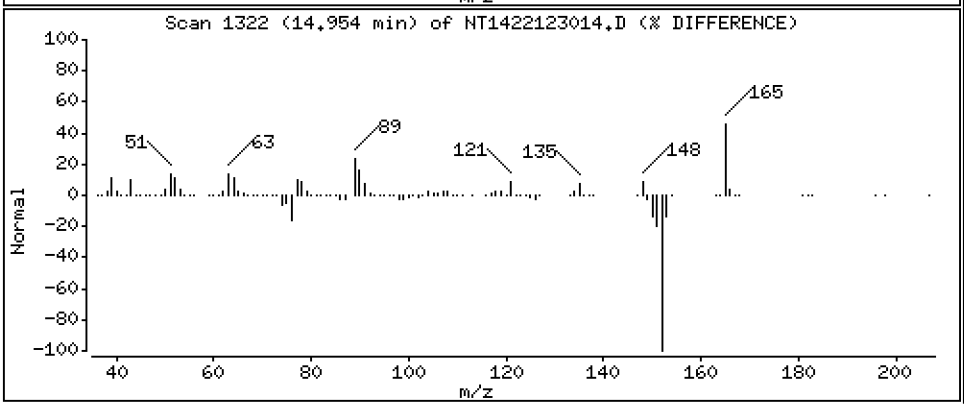












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

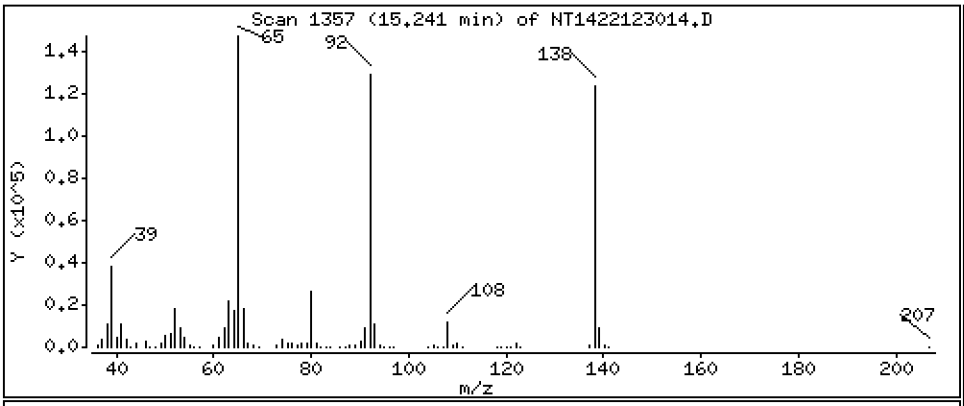
Operator: VTS

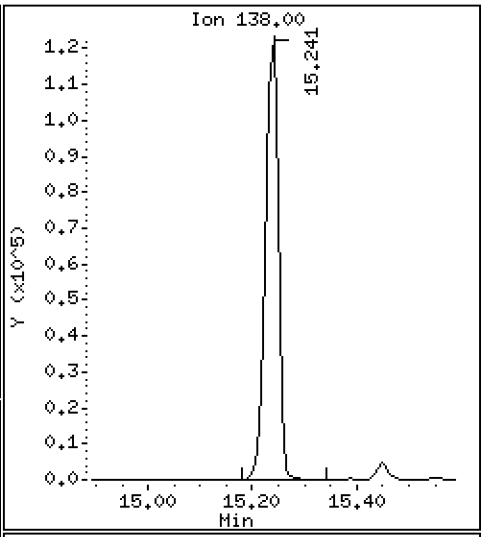
Column phase: ZB-5msi

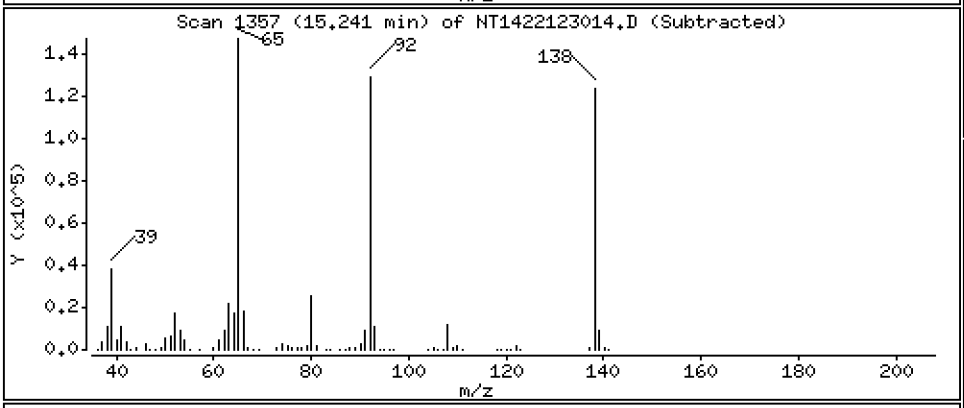
Column diameter: 0.25

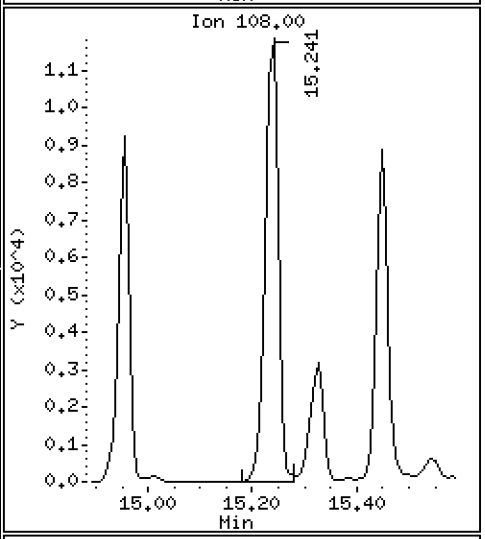
43 3-Nitroaniline

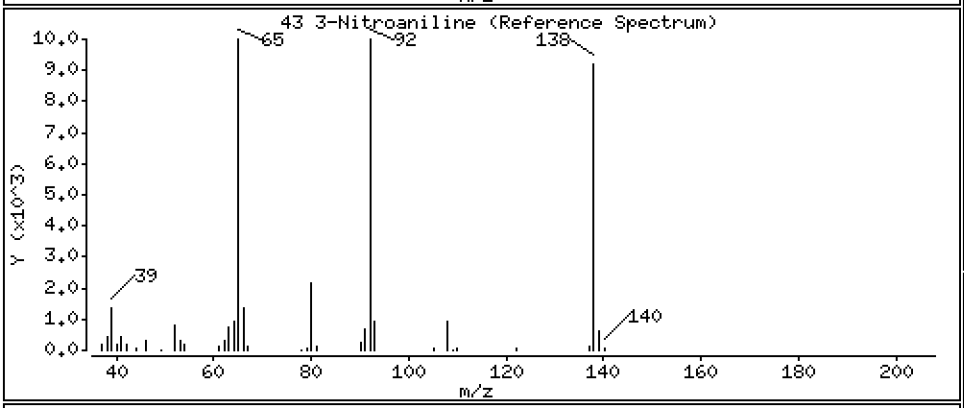
Concentration: 9.918 ug/mL

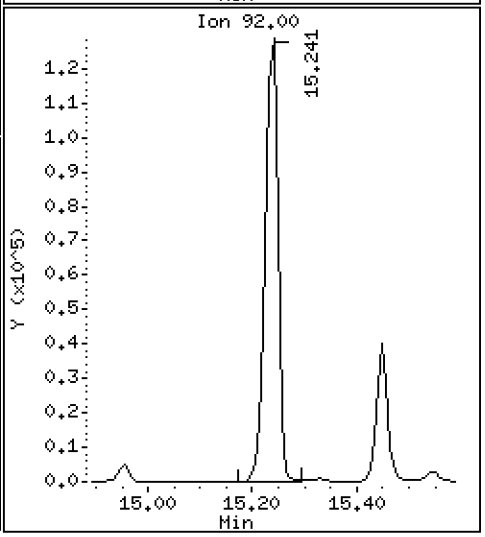


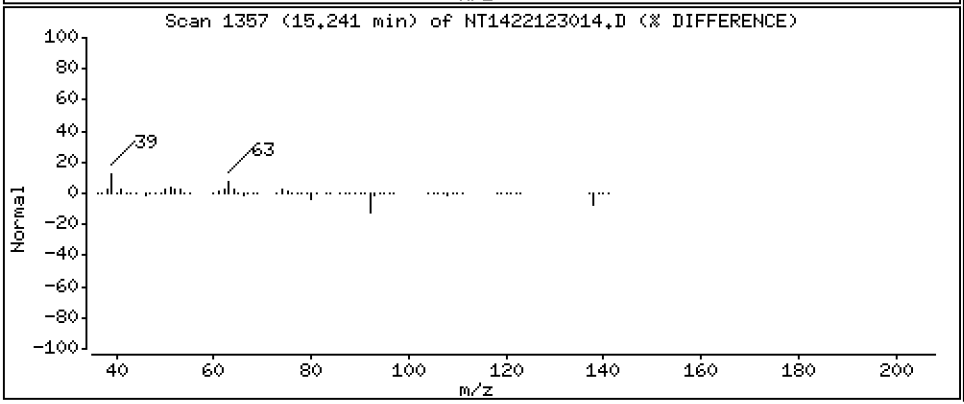












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

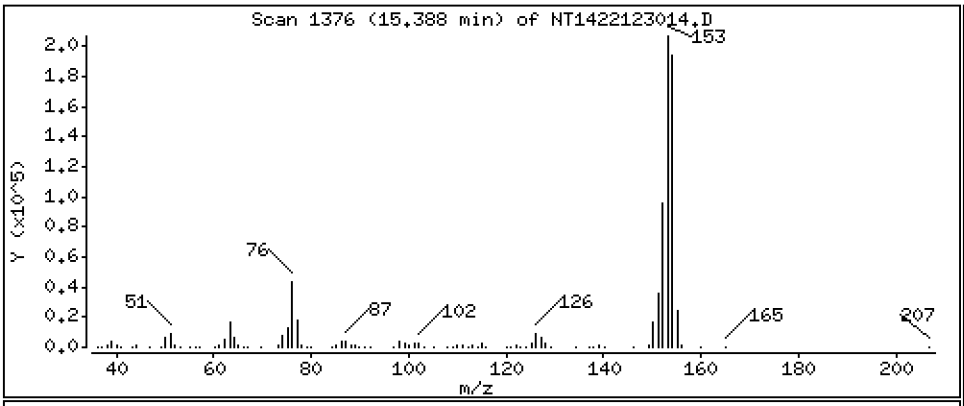
Operator: VTS

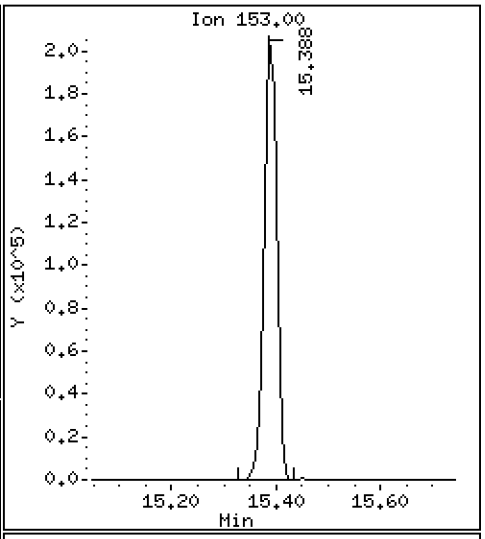
Column phase: ZB-5msi

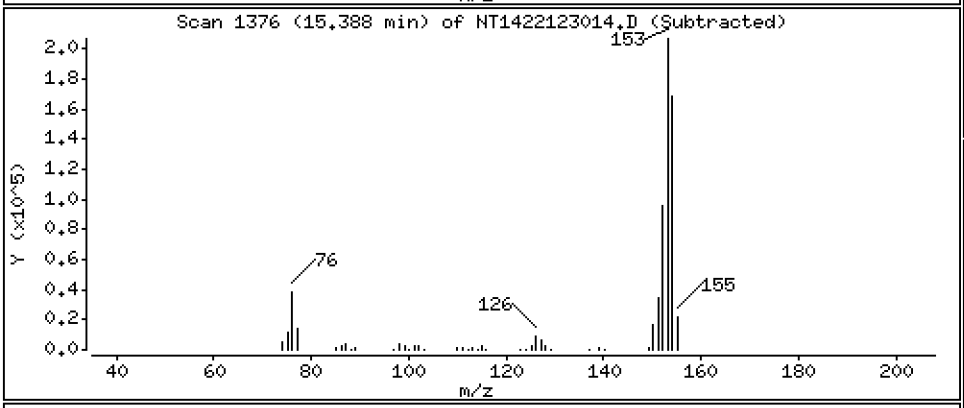
Column diameter: 0.25

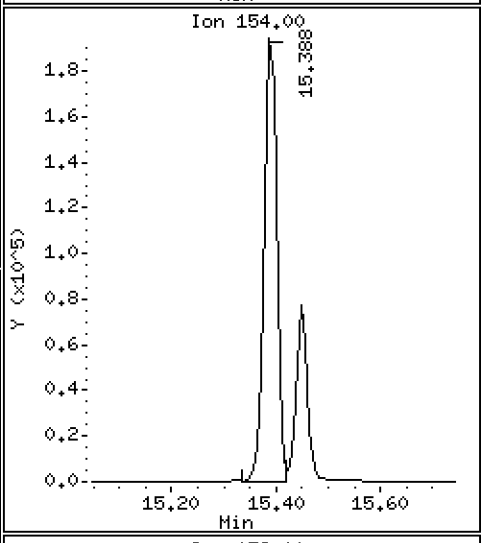
44 Acenaphthene

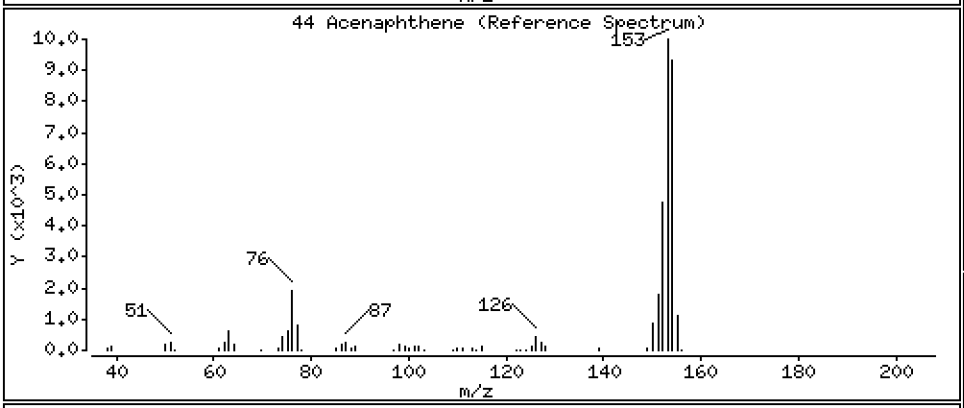
Concentration: 4.613 ug/mL

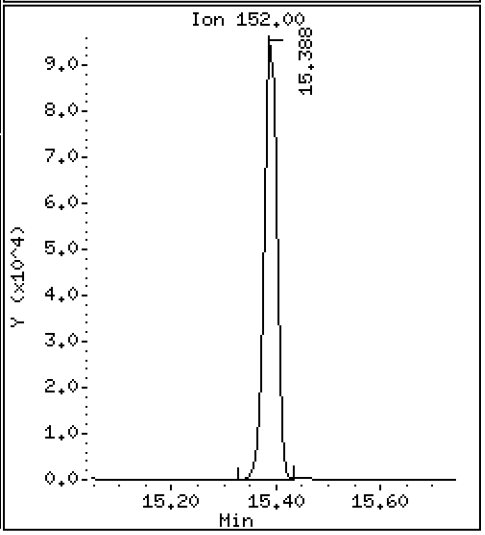


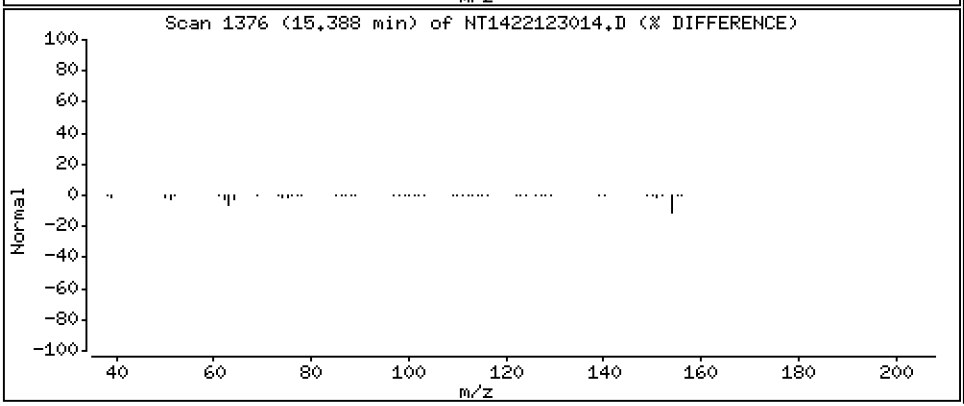












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

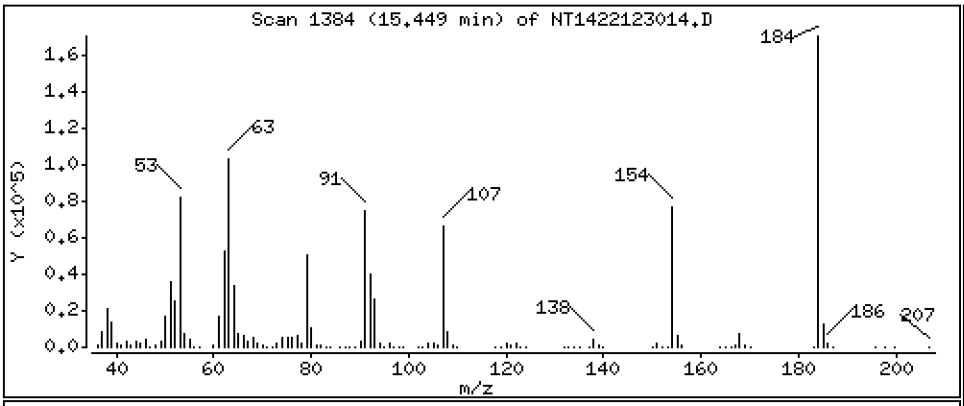
Operator: VTS

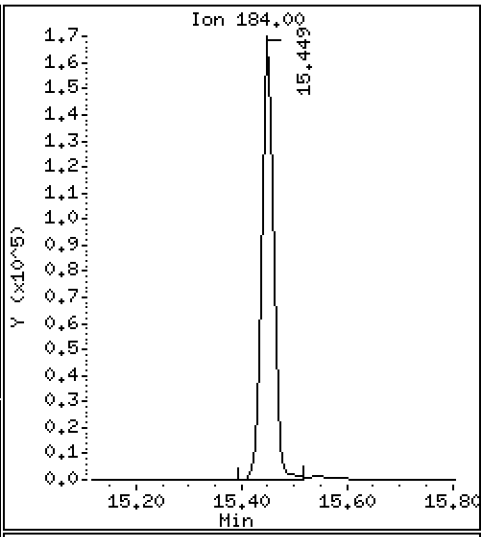
Column phase: ZB-5msi

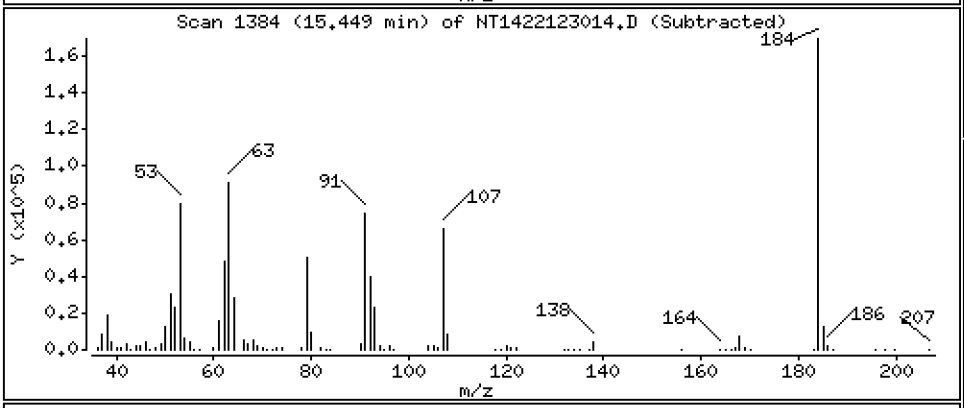
Column diameter: 0.25

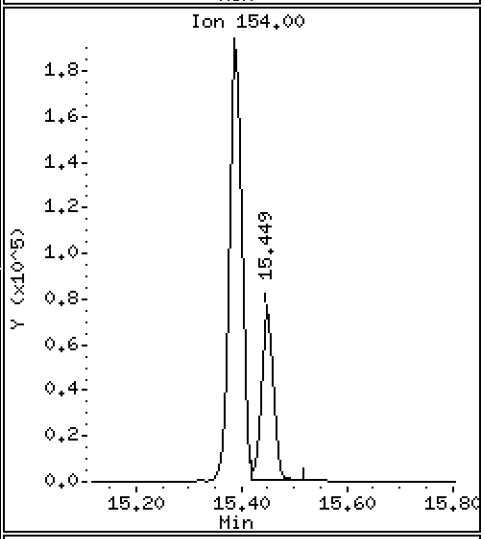
45 2,4-Dinitrophenol

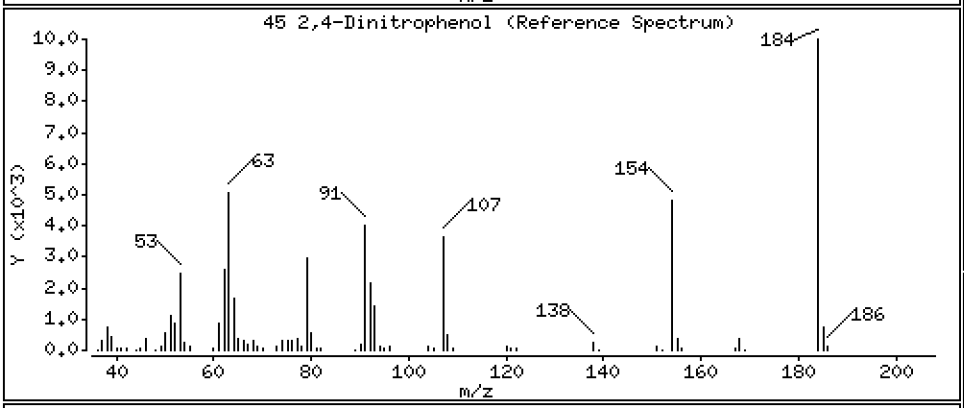
Concentration: 17.62 ug/mL

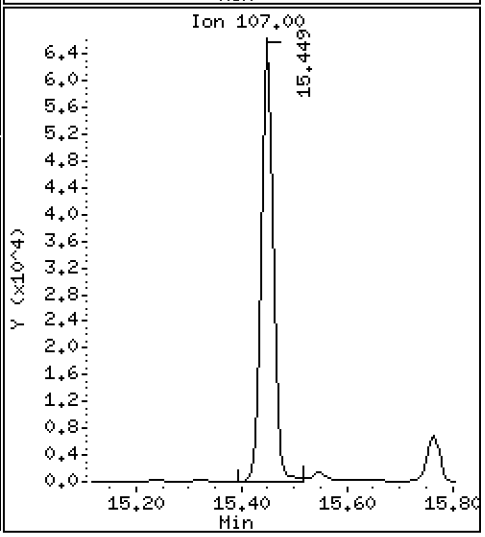


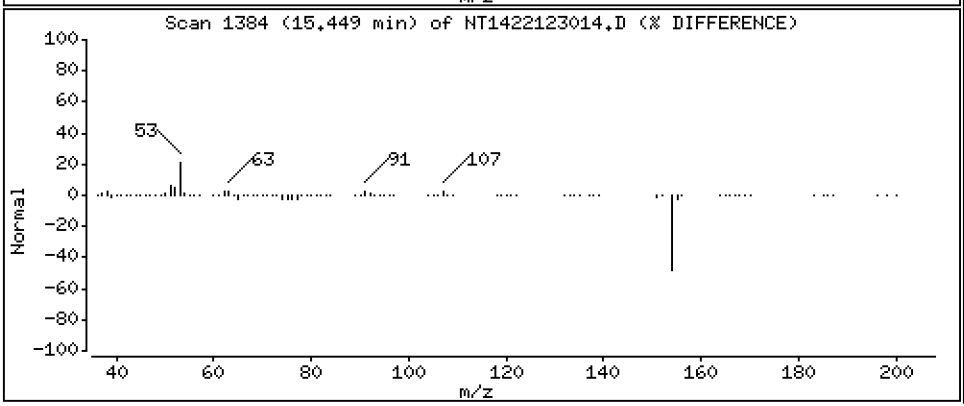












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

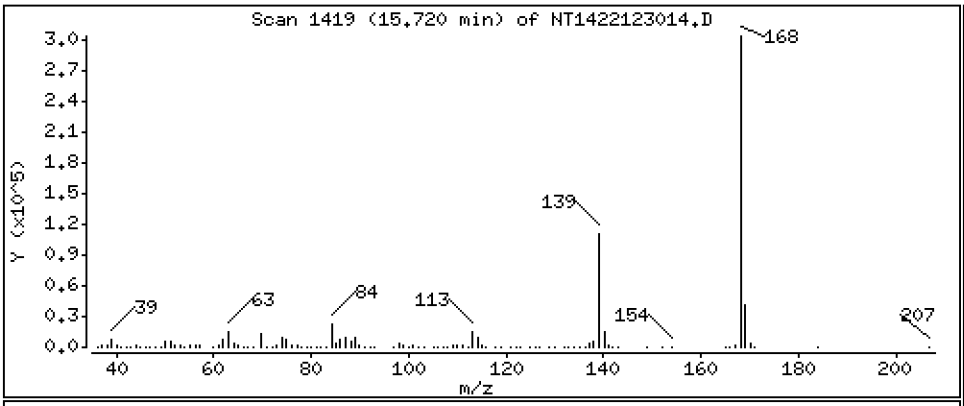
Operator: VTS

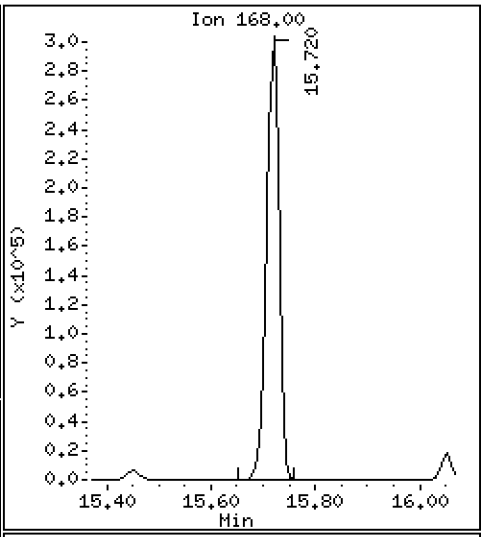
Column phase: ZB-5msi

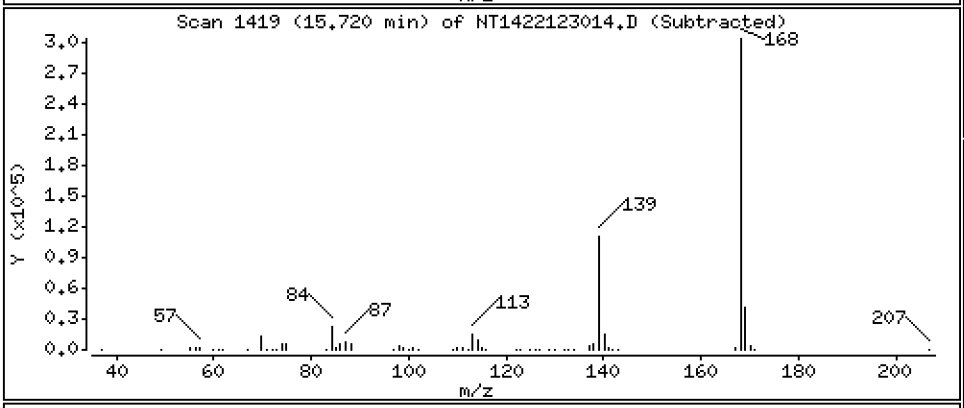
Column diameter: 0.25

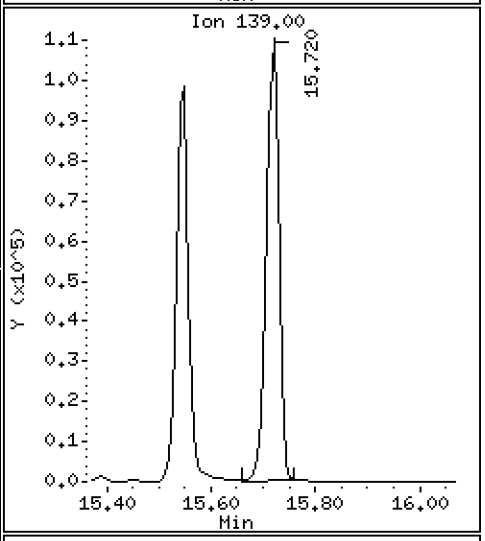
46 Dibenzofuran

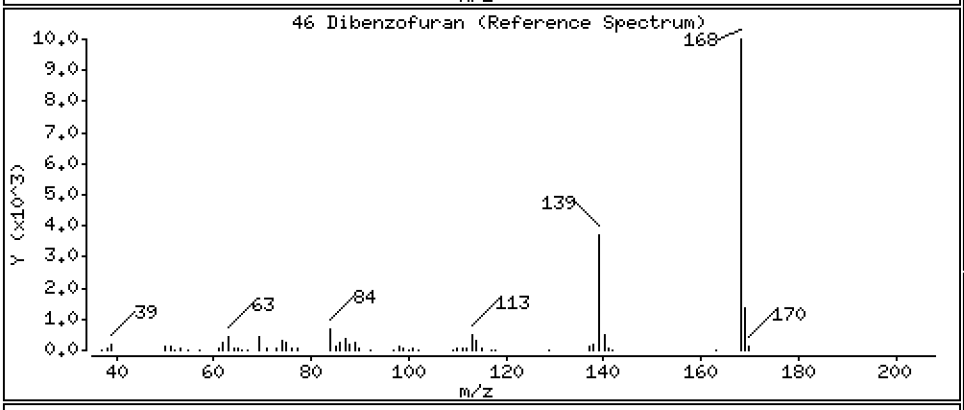
Concentration: 4.547 ug/mL

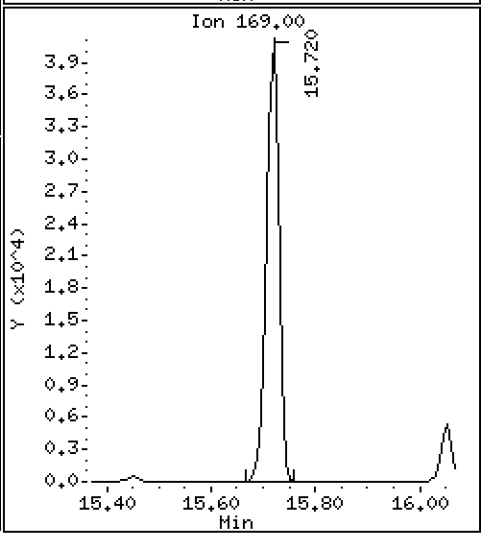


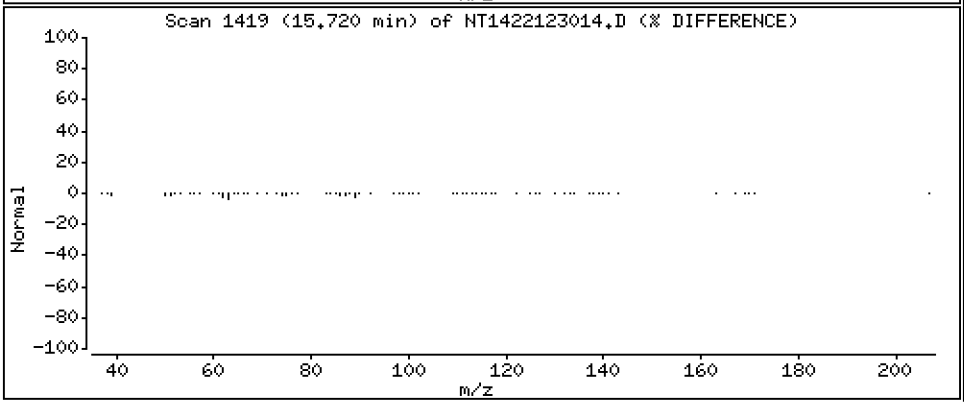












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

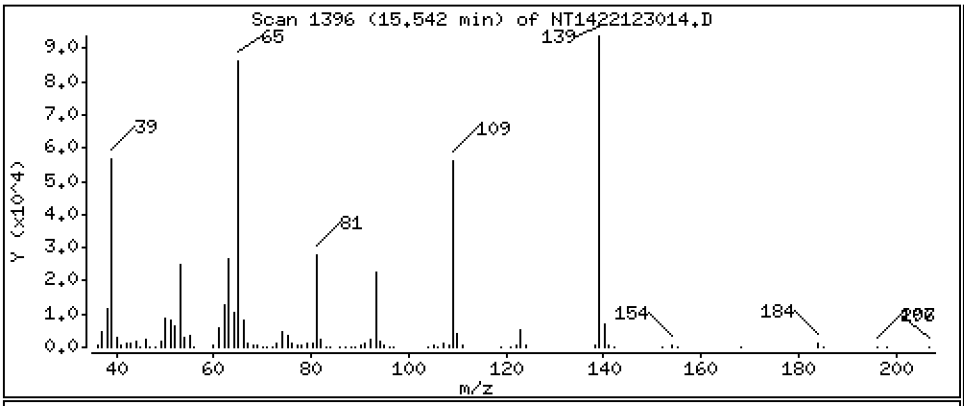
Operator: VTS

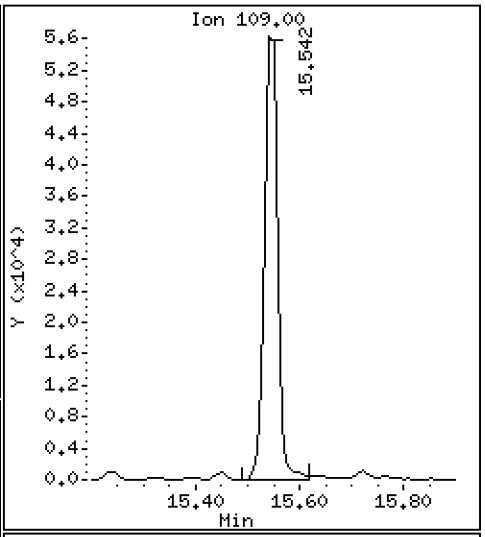
Column phase: ZB-5msi

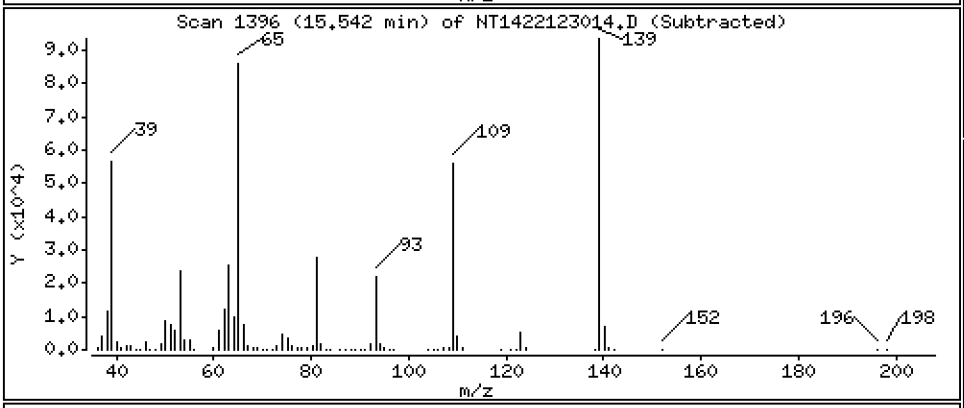
Column diameter: 0.25

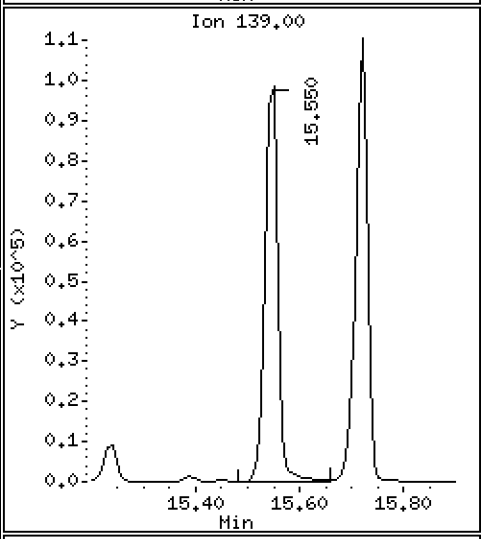
47 4-Nitrophenol

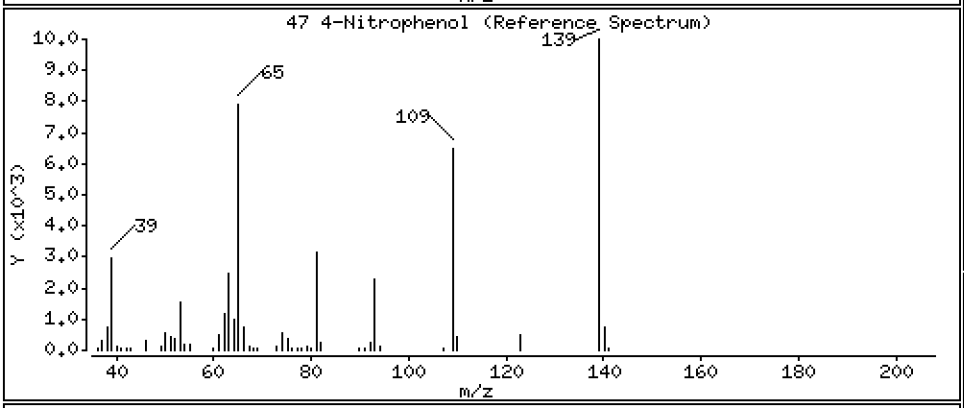
Concentration: 9.441 ug/mL

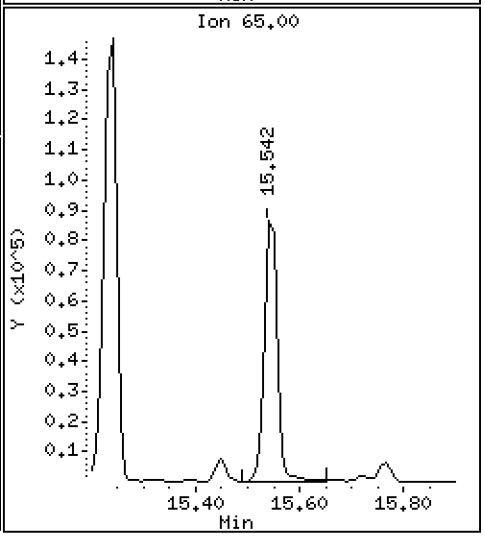


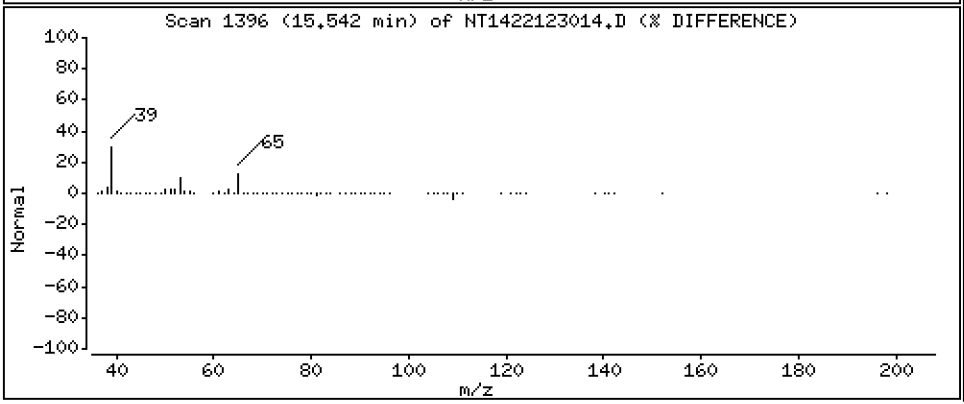












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

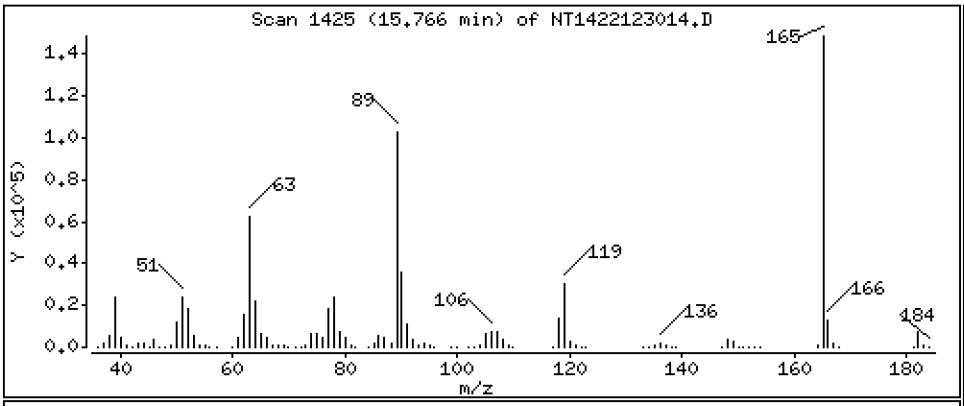
Operator: VTS

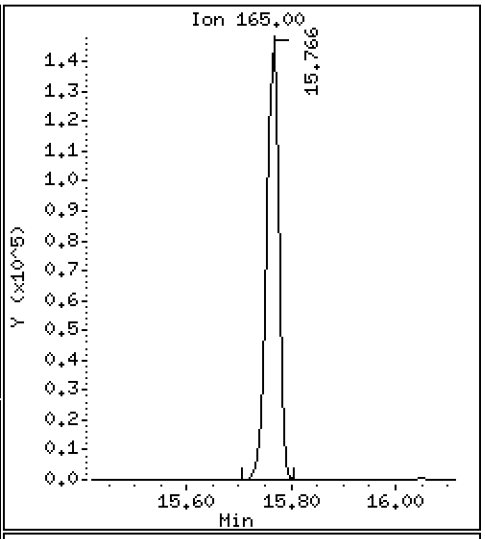
Column phase: ZB-5msi

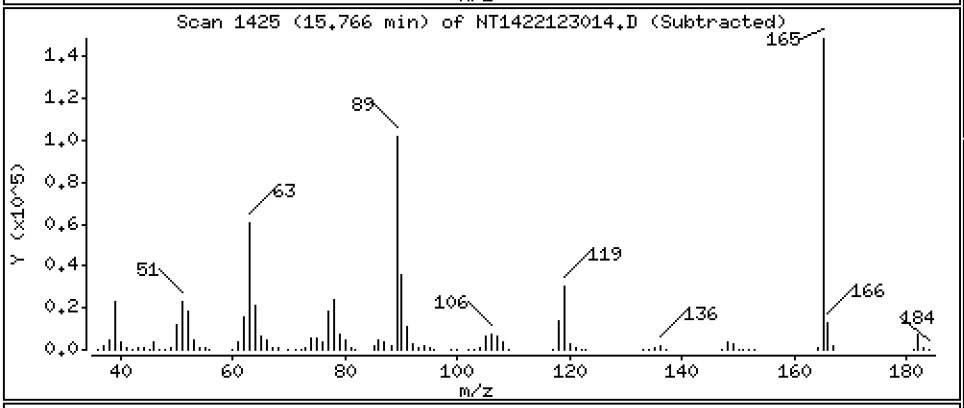
Column diameter: 0.25

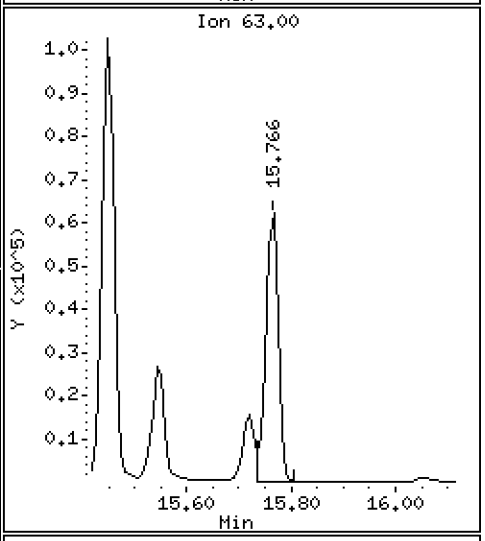
48 2,4-Dinitrotoluene

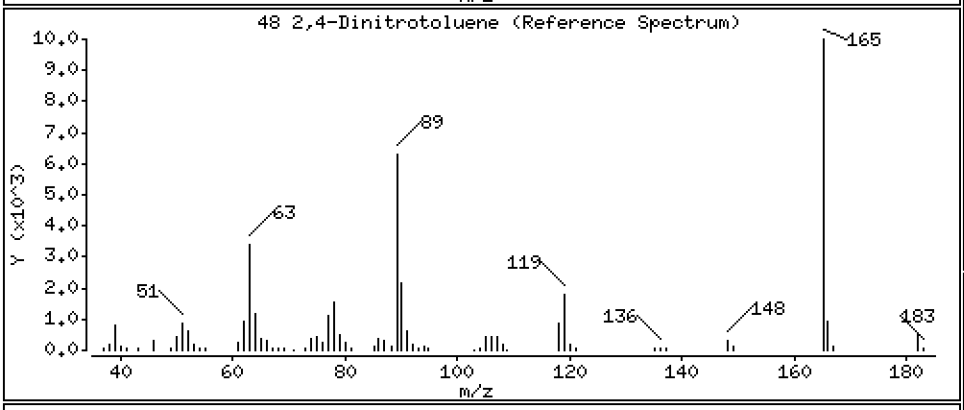
Concentration: 9.887 ug/mL

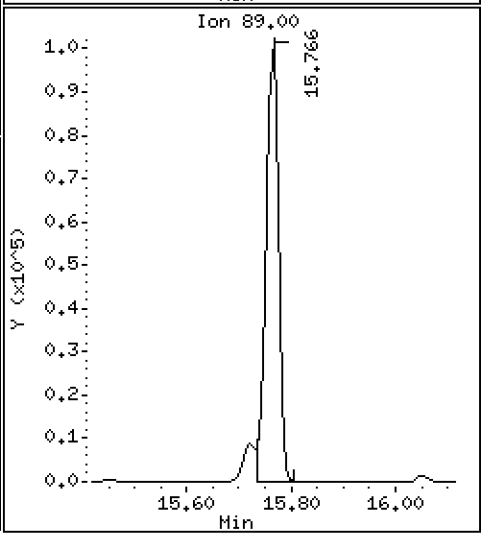


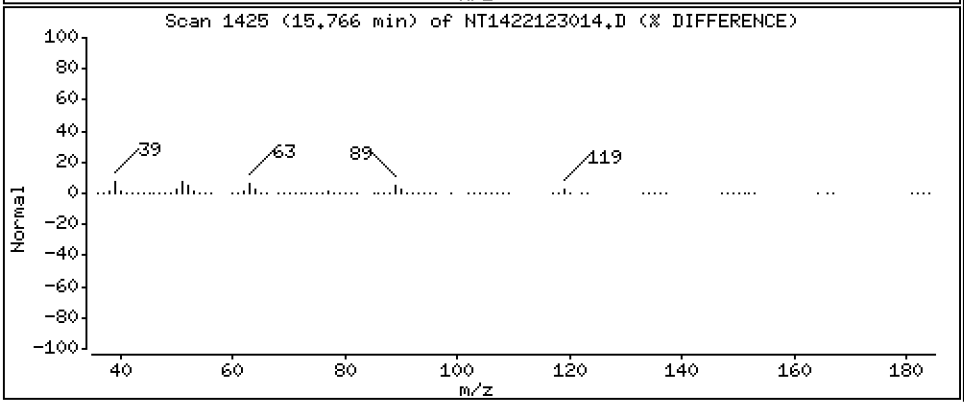












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

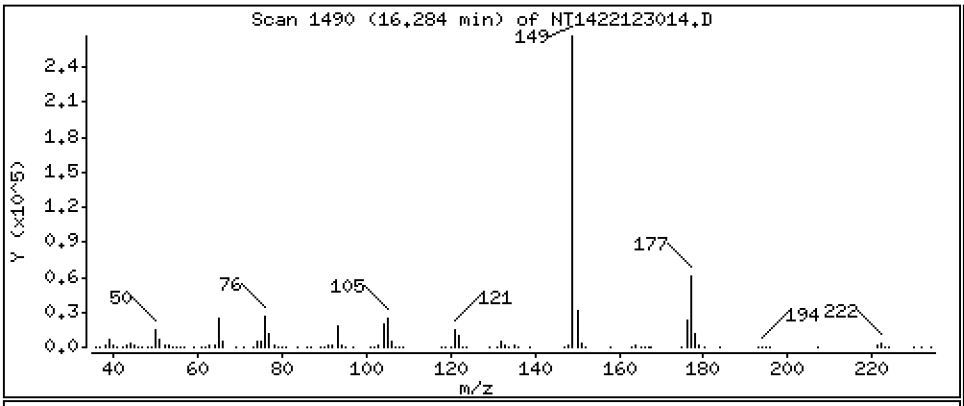
Operator: VTS

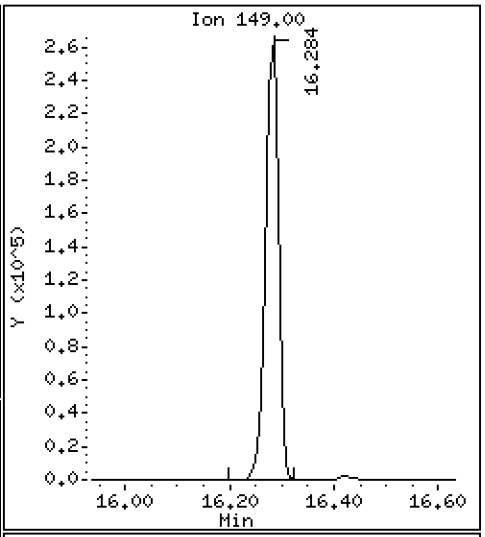
Column phase: ZB-5msi

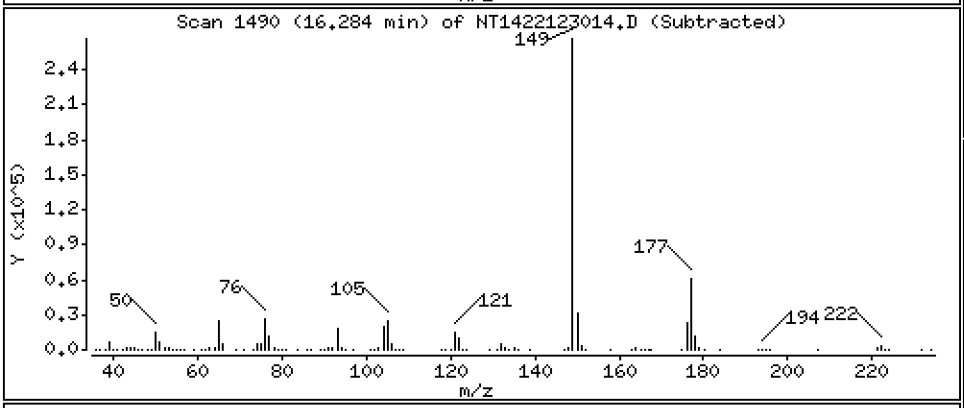
Column diameter: 0.25

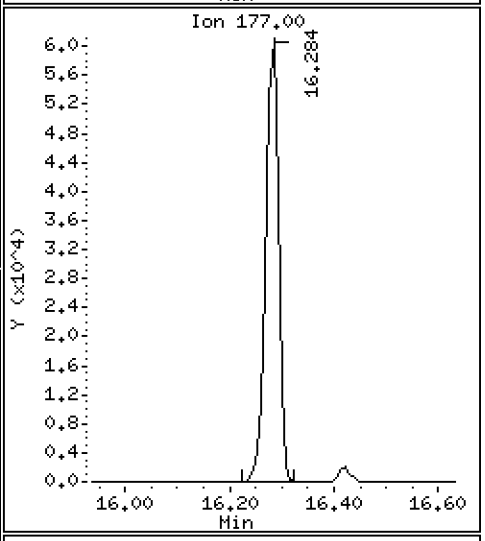
50 Diethylphthalate

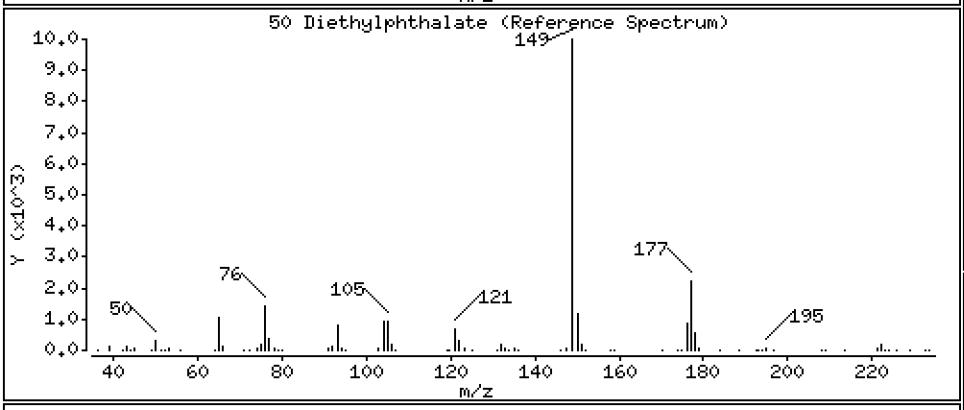
Concentration: 4.968 ug/mL

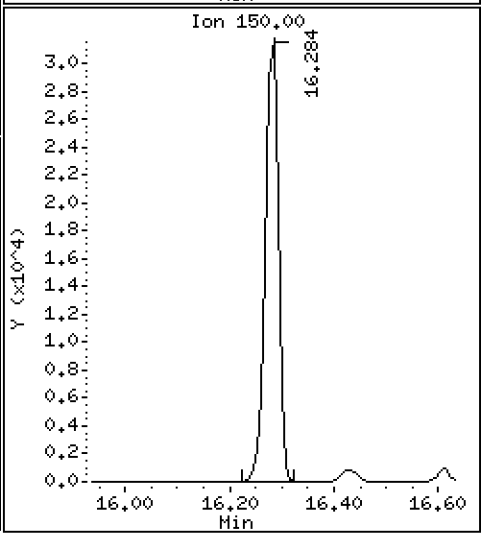


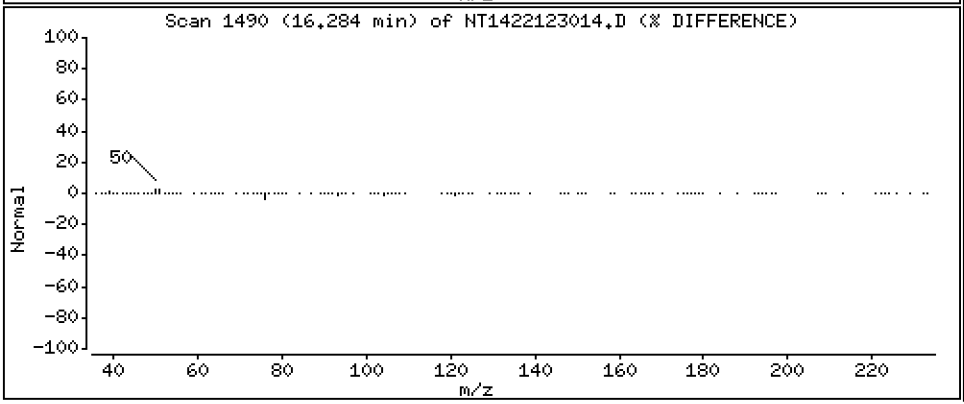












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

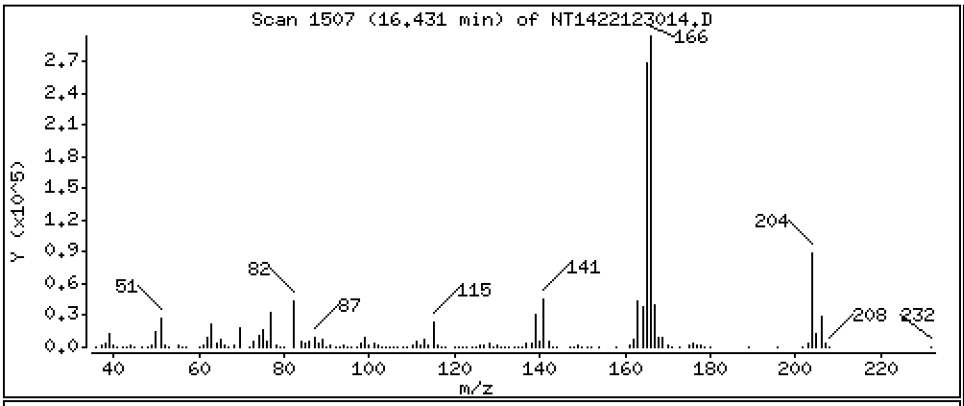
Operator: VTS

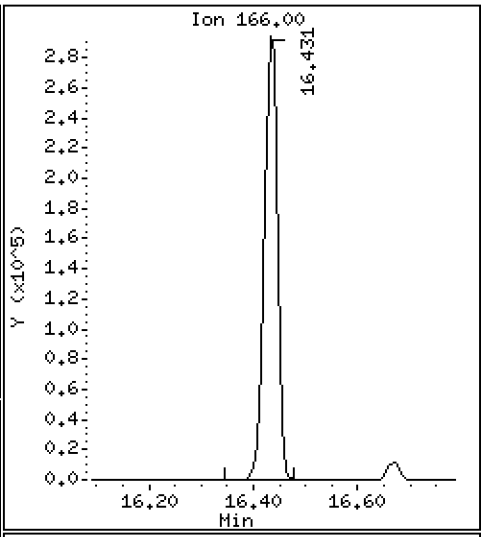
Column phase: ZB-5msi

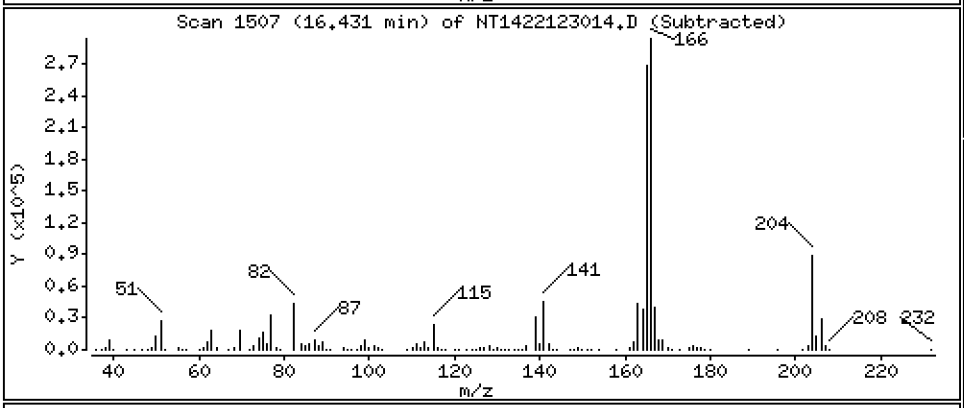
Column diameter: 0.25

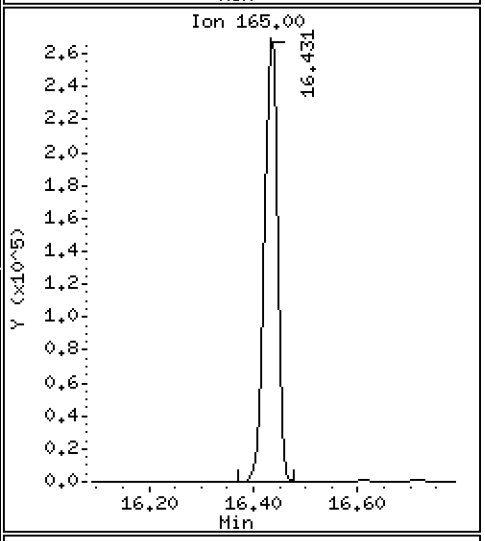
49 Fluorene

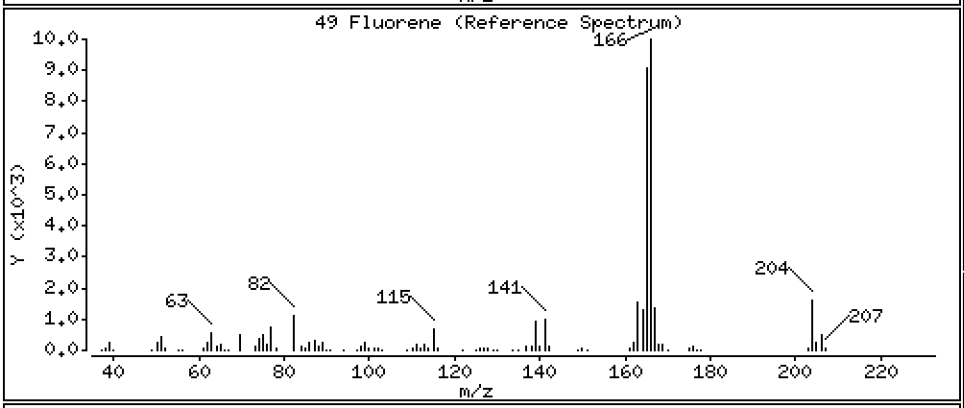
Concentration: 4.940 ug/mL

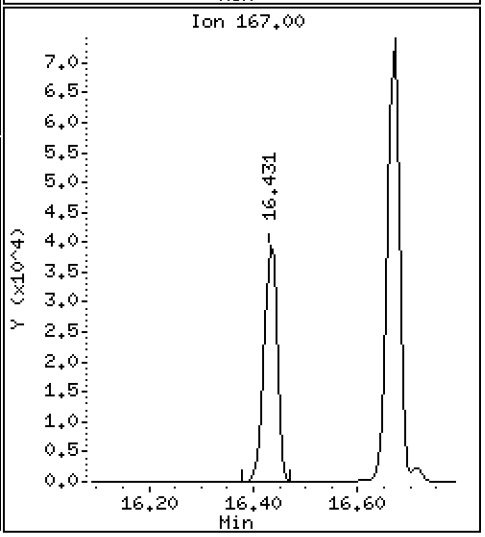


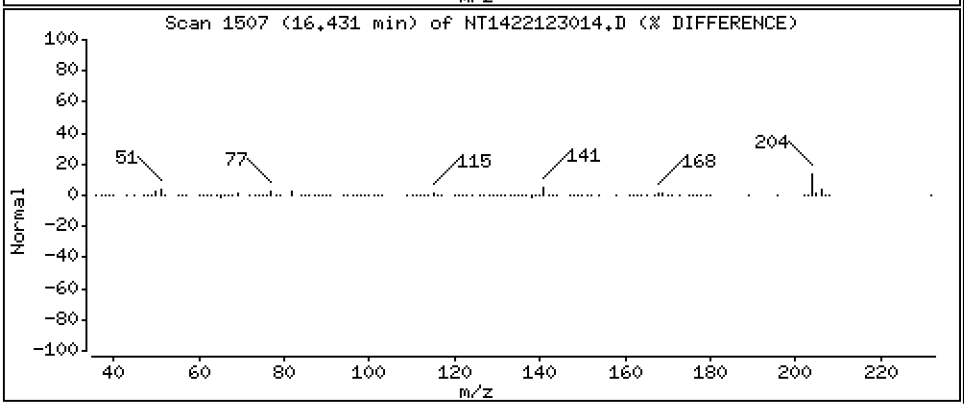












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

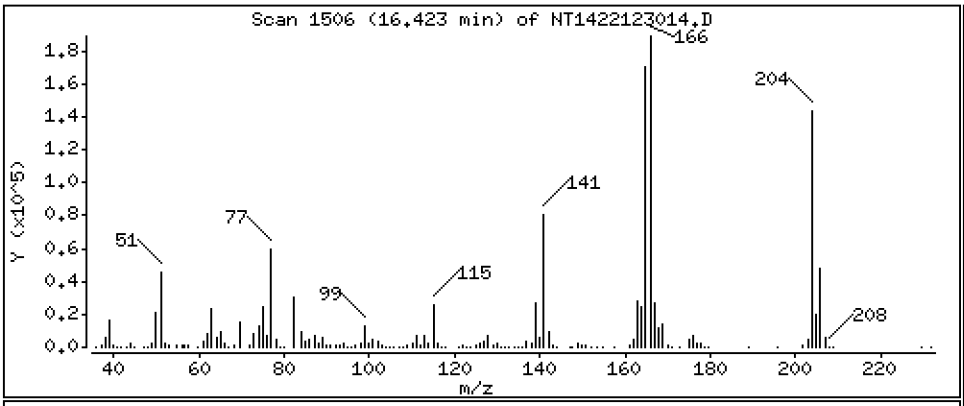
Operator: VTS

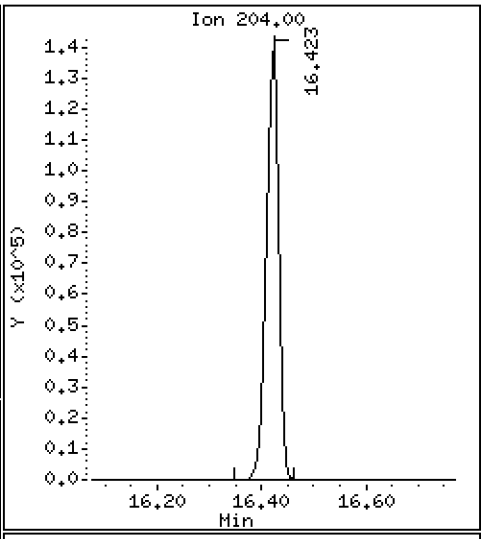
Column phase: ZB-5msi

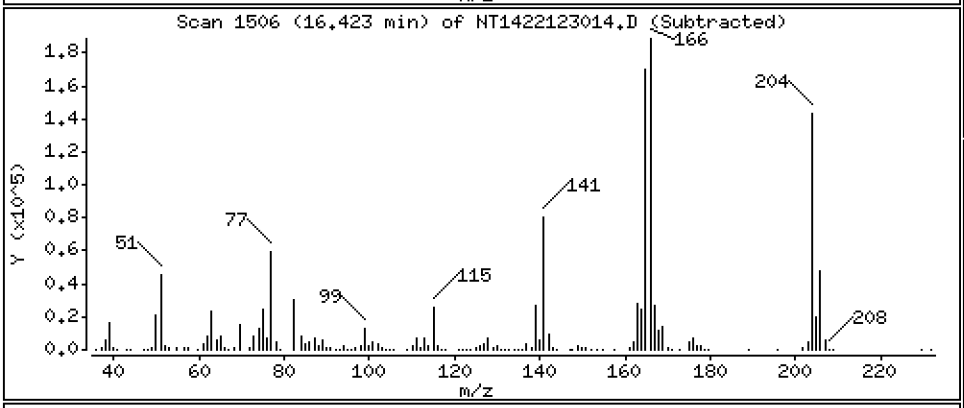
Column diameter: 0.25

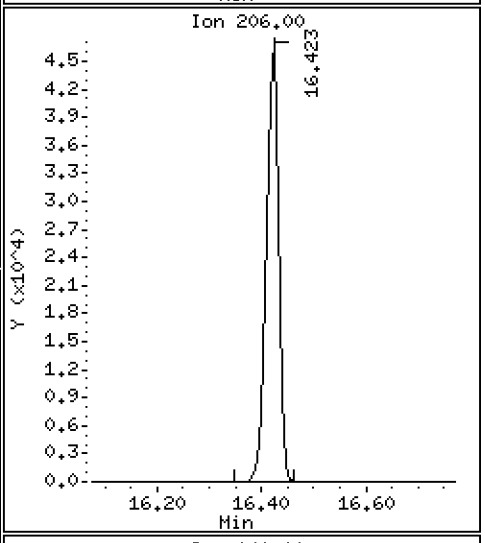
51 4-Chlorophenyl-phenylether

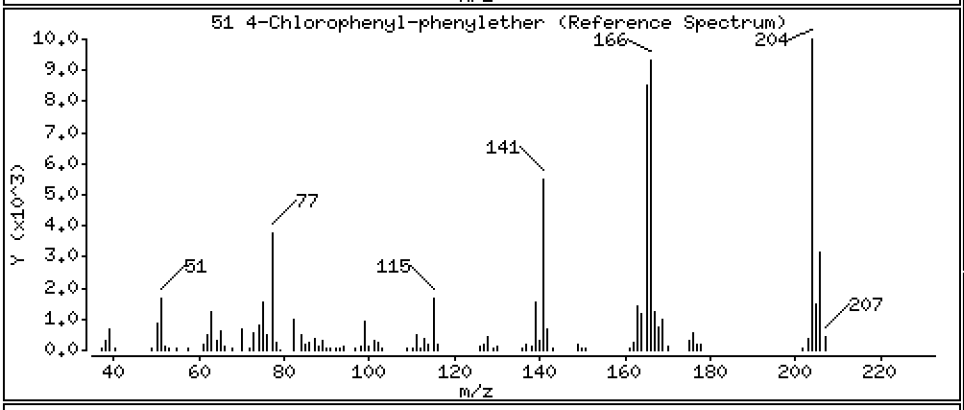
Concentration: 4.666 ug/mL

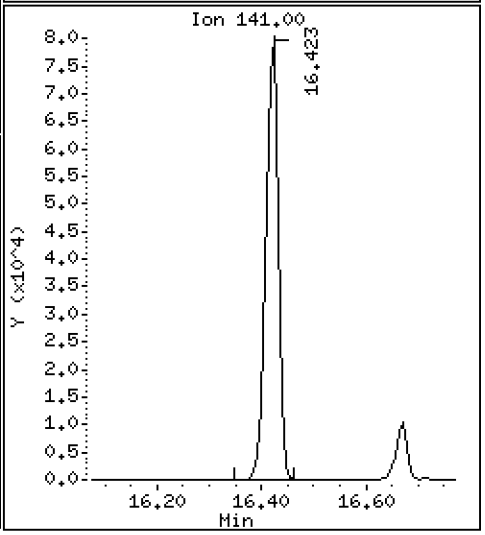


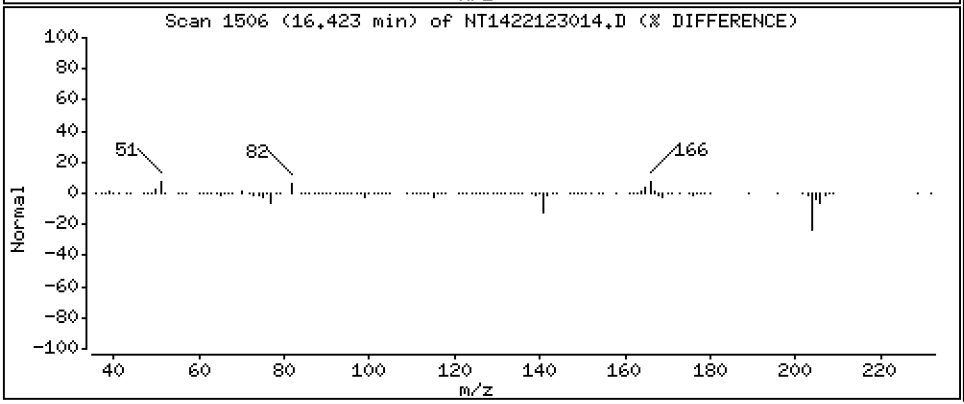












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

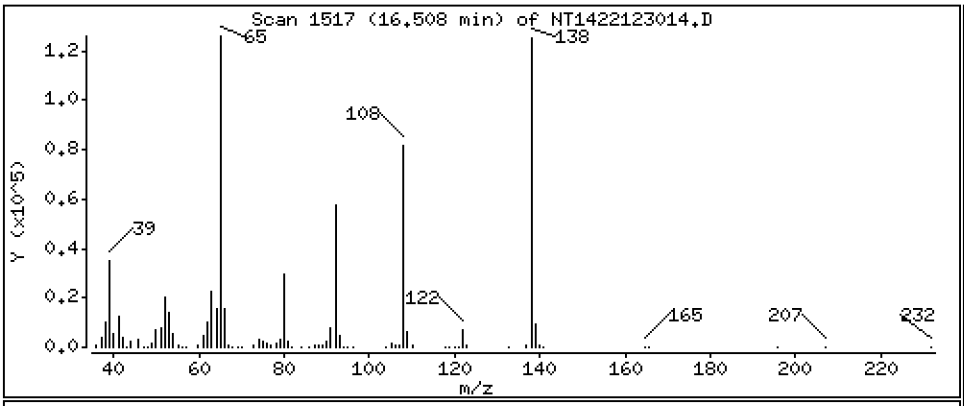
Operator: VTS

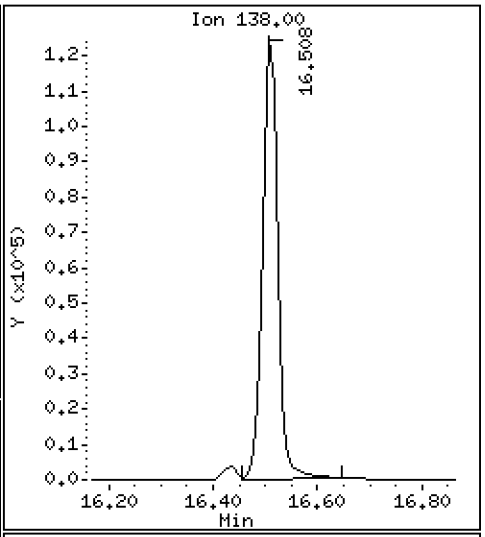
Column phase: ZB-5msi

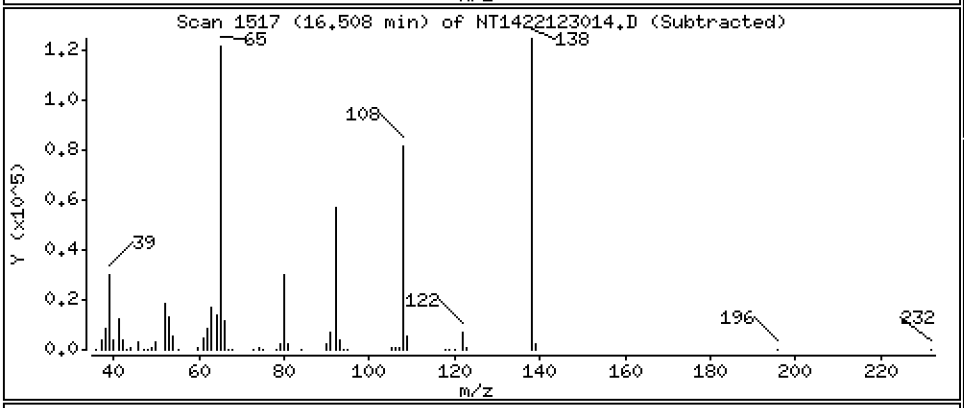
Column diameter: 0.25

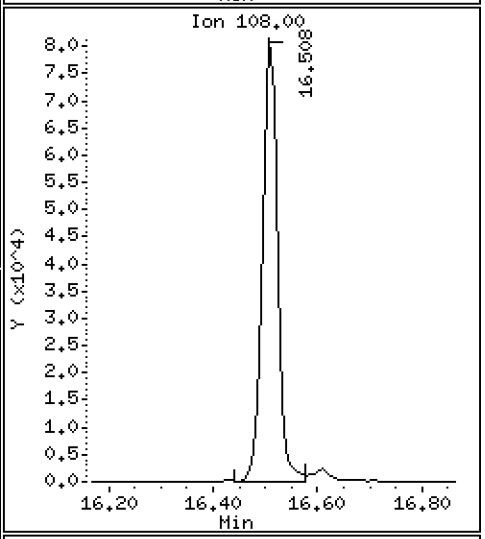
52 4-Nitroaniline

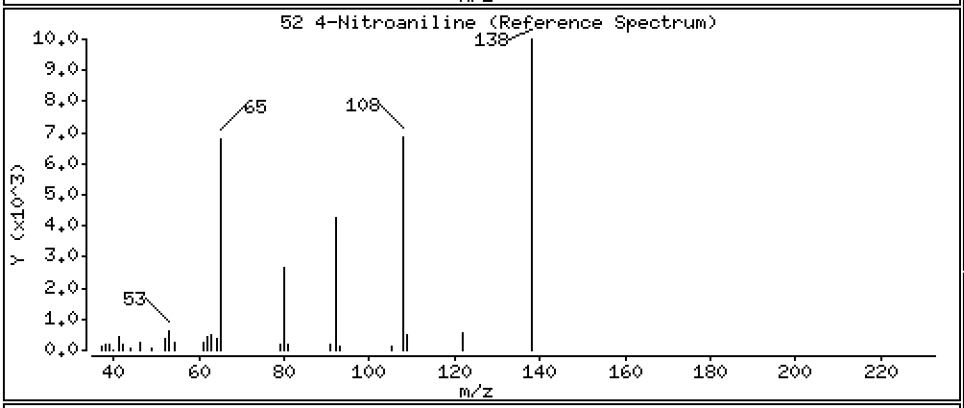
Concentration: 9.616 ug/mL

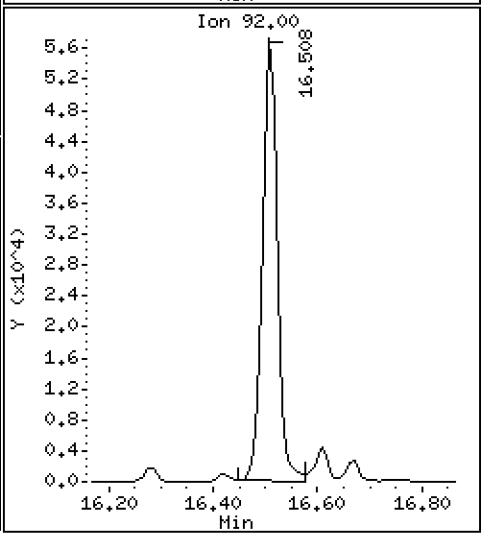


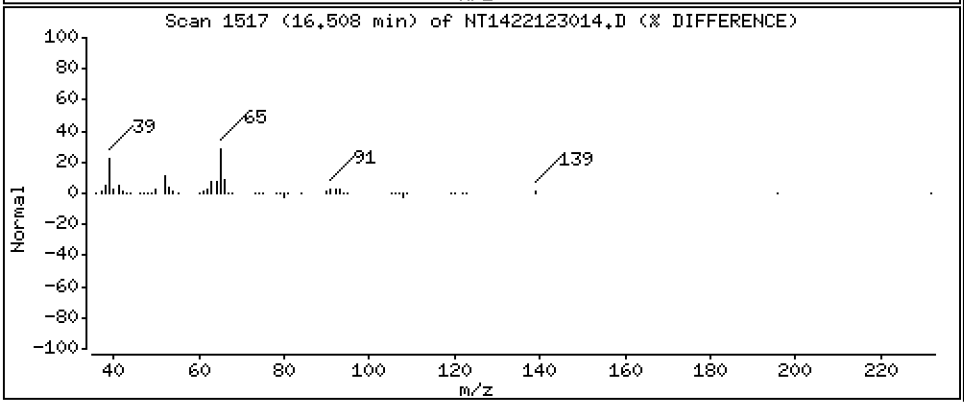












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

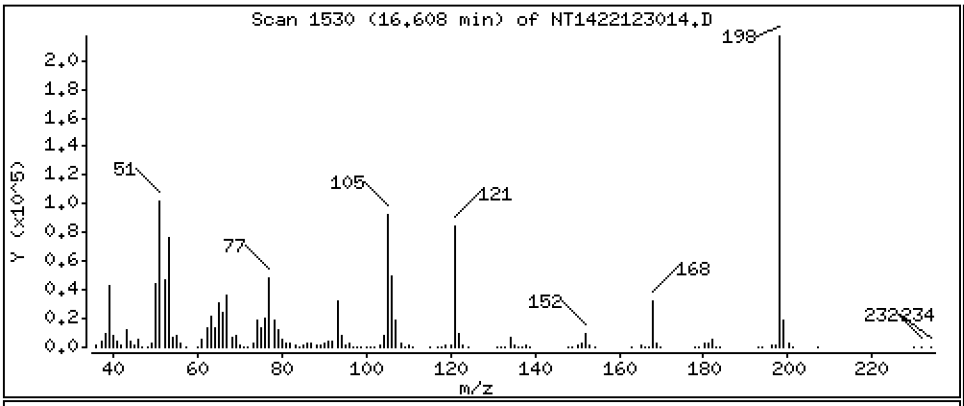
Operator: VTS

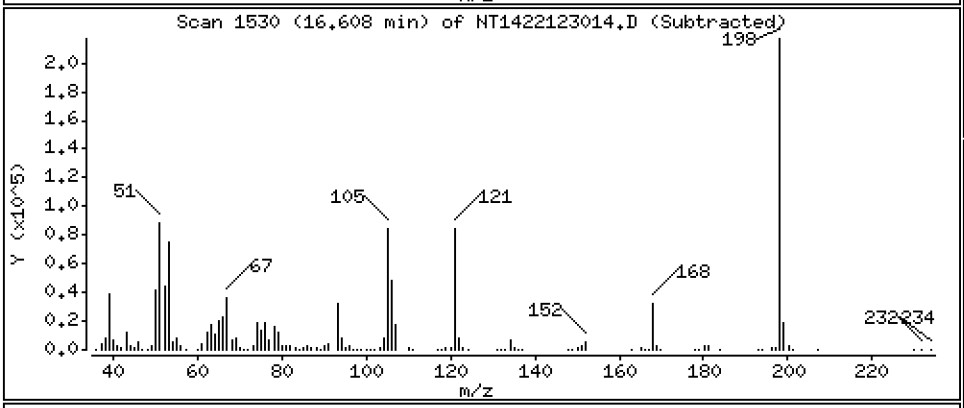
Column phase: ZB-5msi

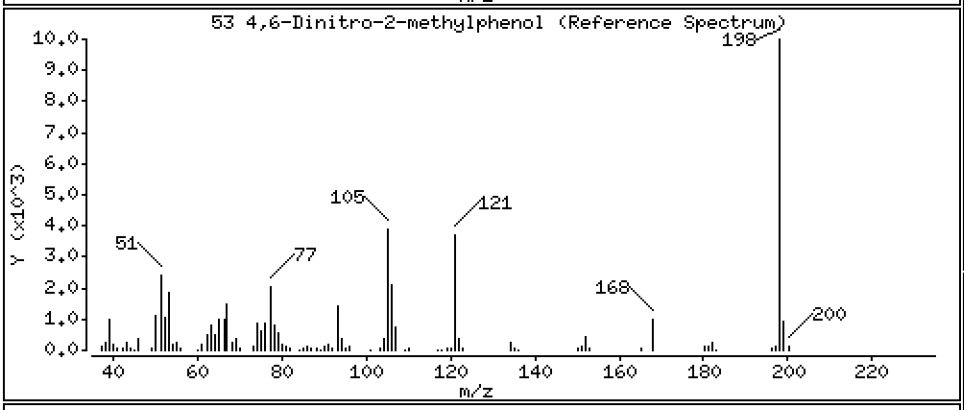
Column diameter: 0.25

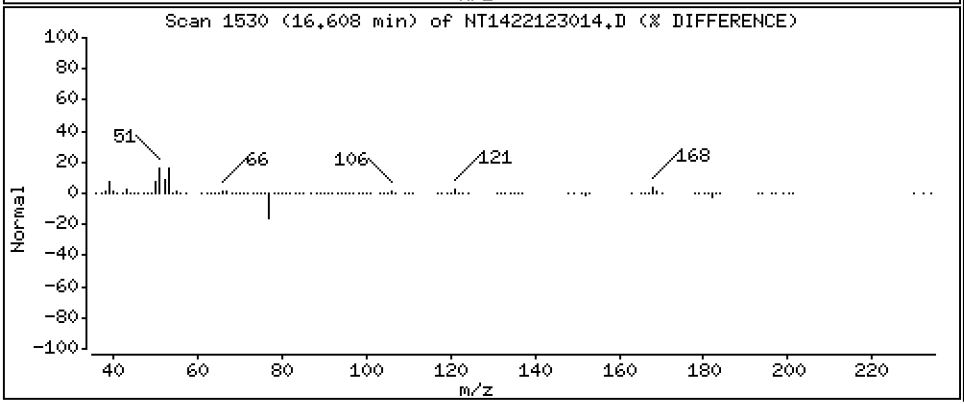
53 4,6-Dinitro-2-methylphenol

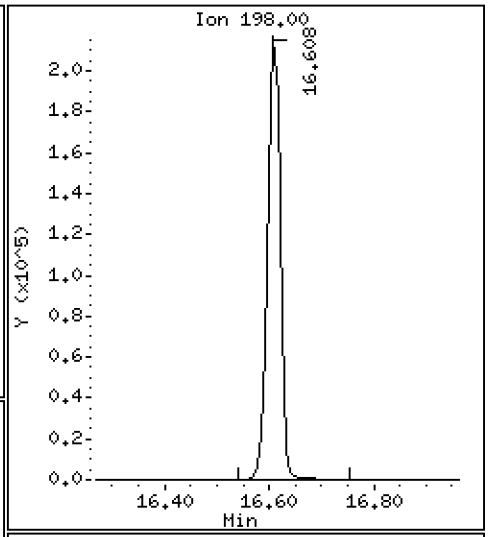
Concentration: 19.19 ug/mL

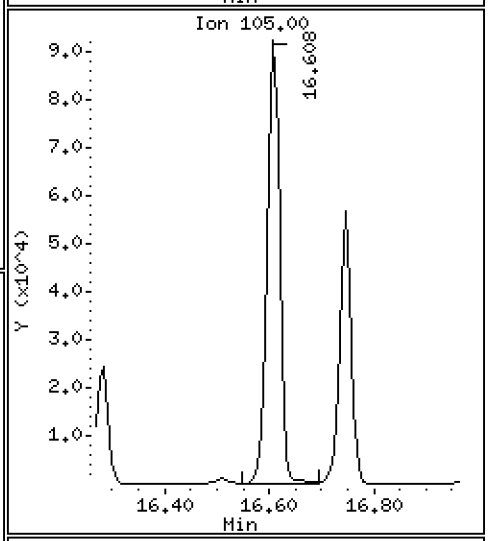


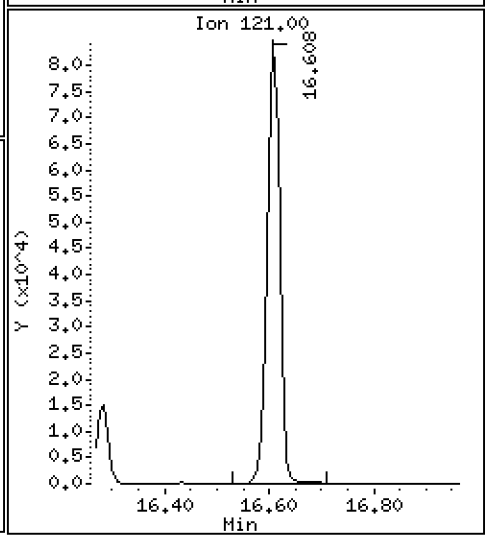












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

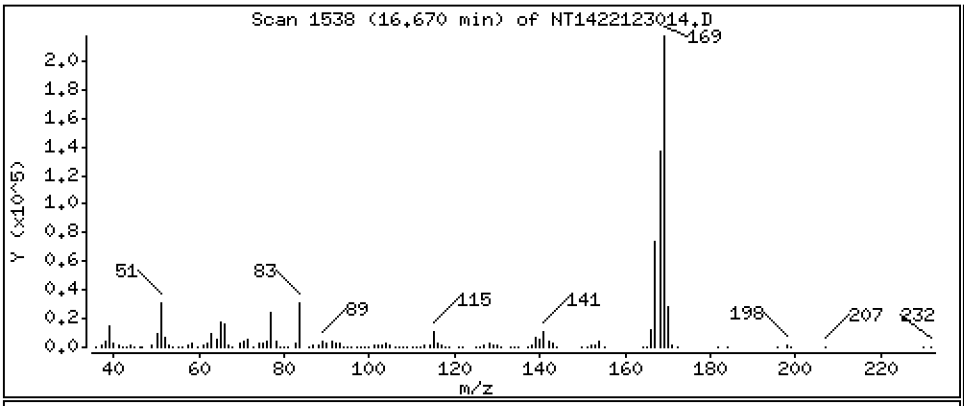
Operator: VTS

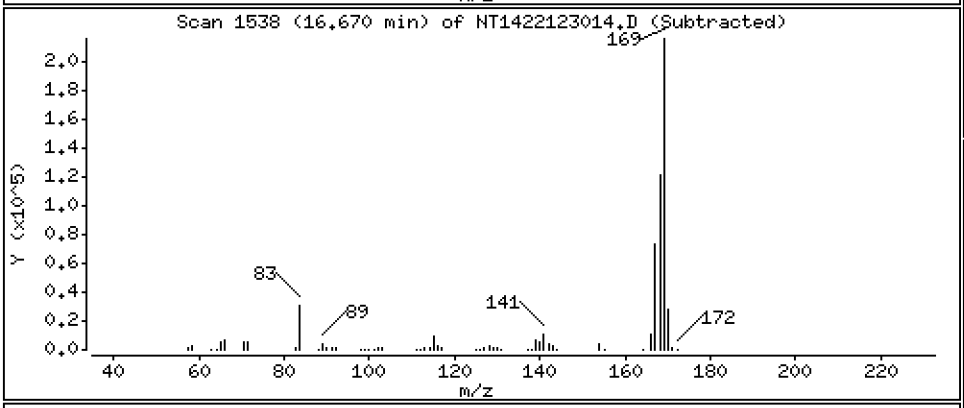
Column phase: ZB-5msi

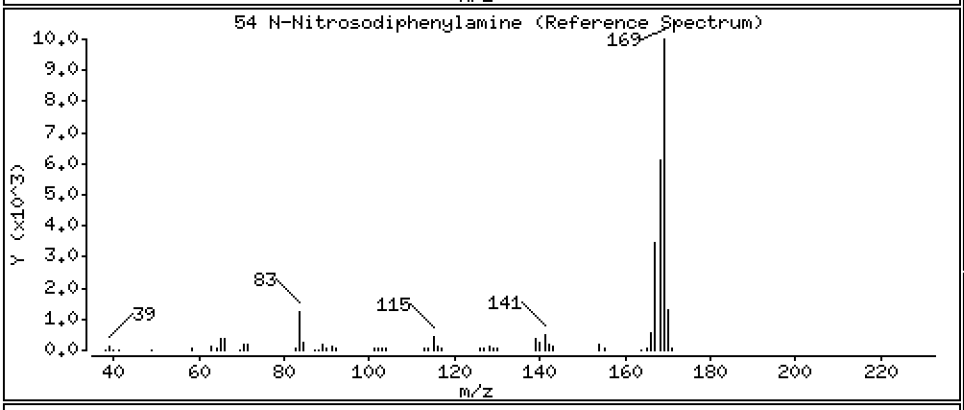
Column diameter: 0.25

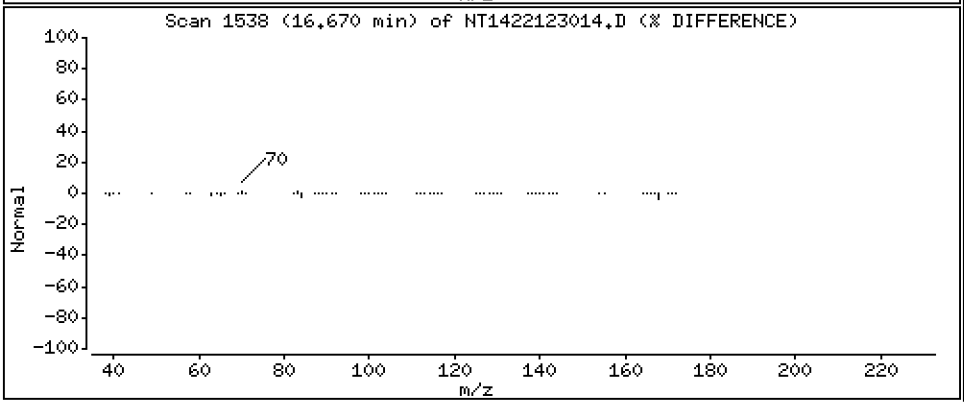
54 N-Nitrosodiphenylamine

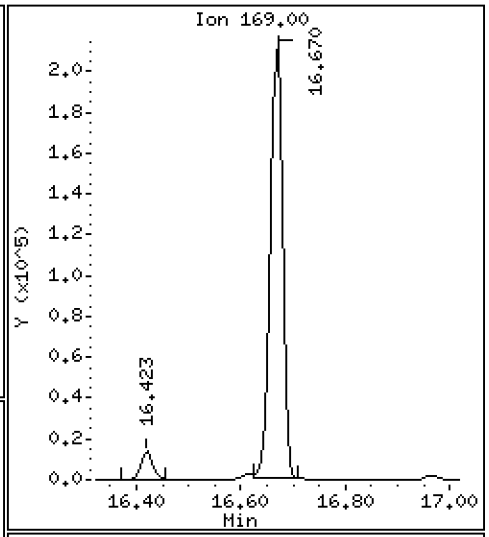
Concentration: 4.619 ug/mL

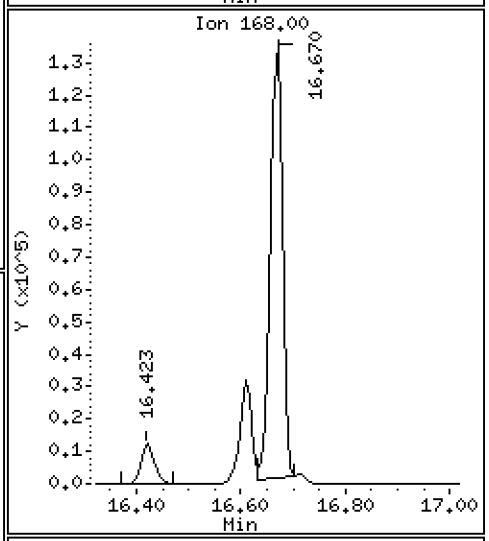


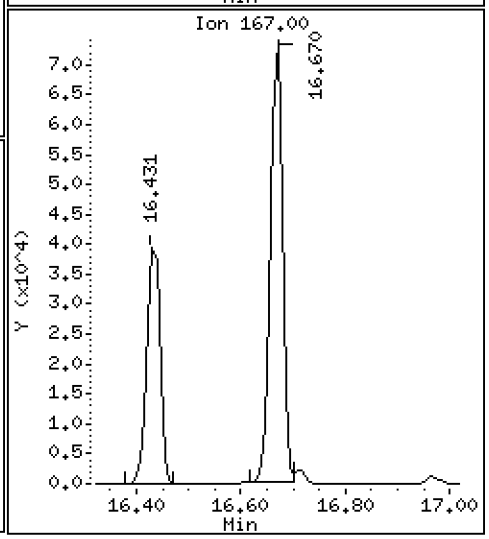












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

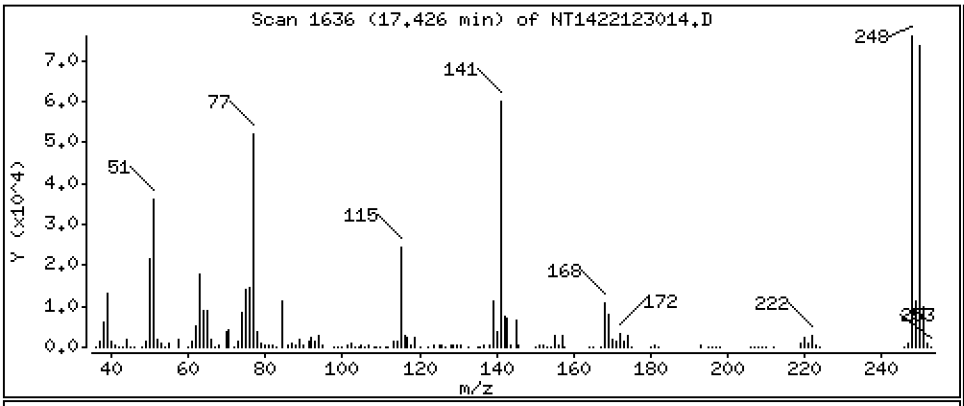
Operator: VTS

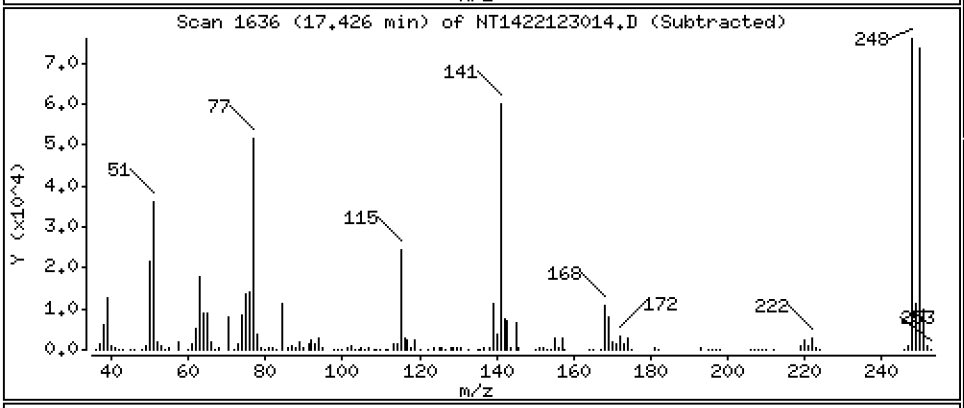
Column phase: ZB-5msi

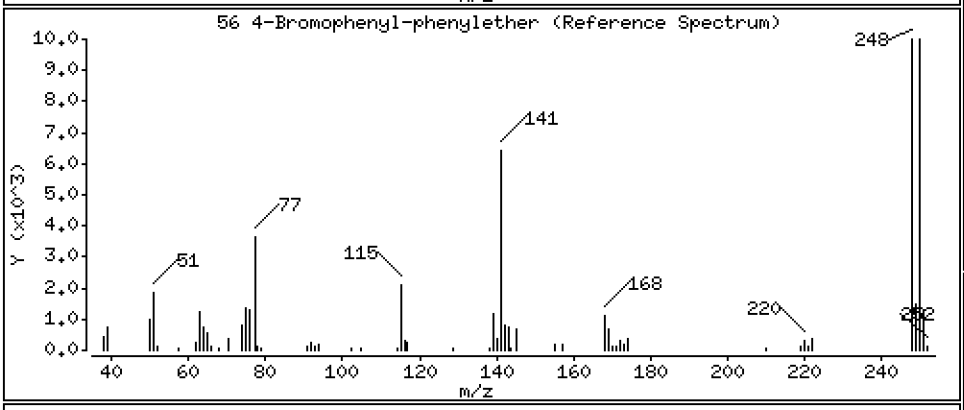
Column diameter: 0.25

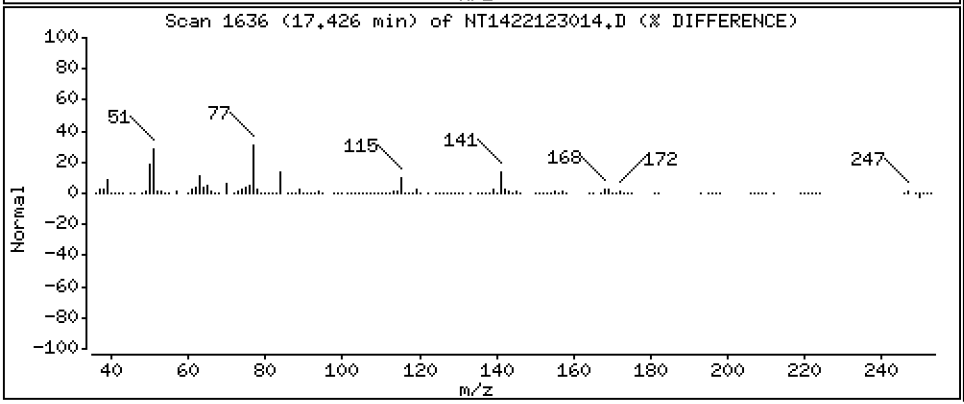
56 4-Bromophenyl-phenylether

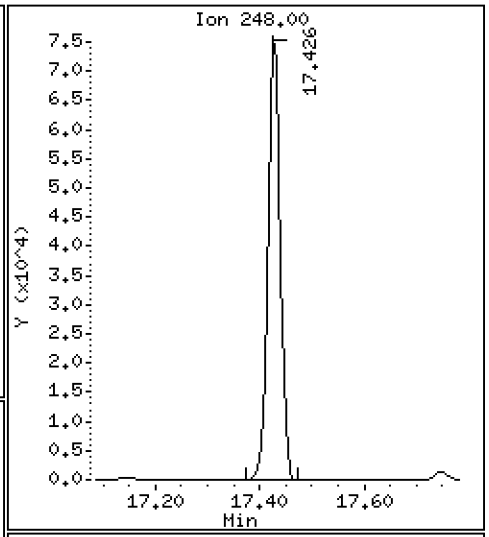
Concentration: 4.600 ug/mL

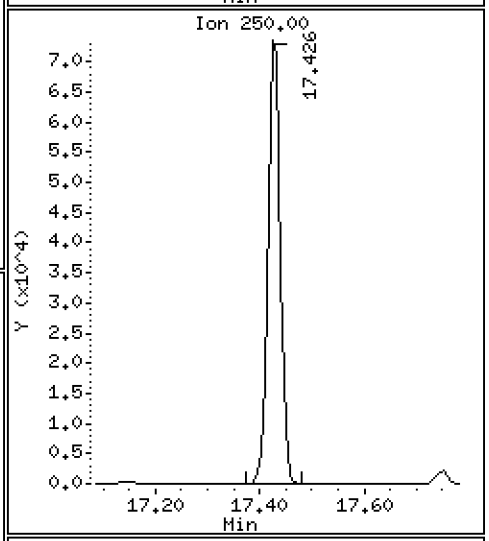


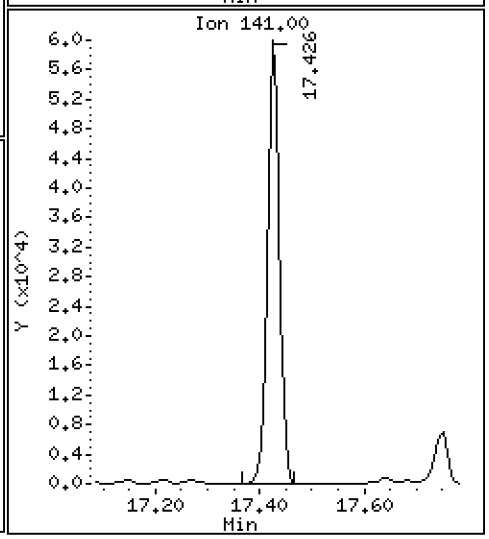












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

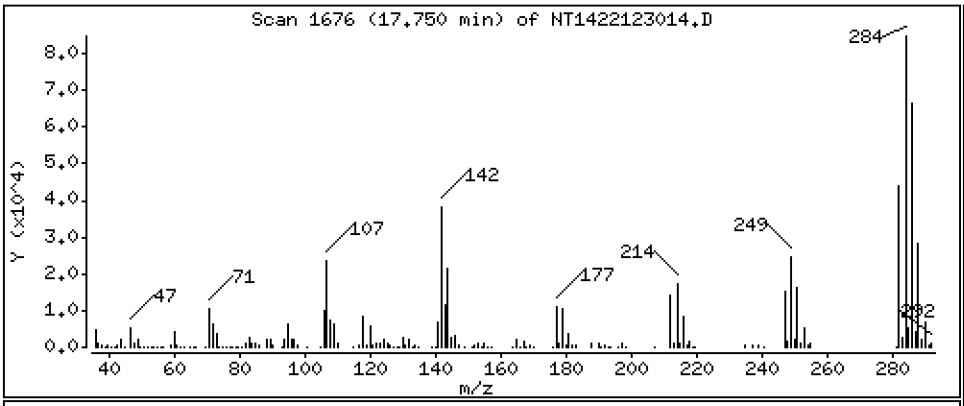
Operator: VTS

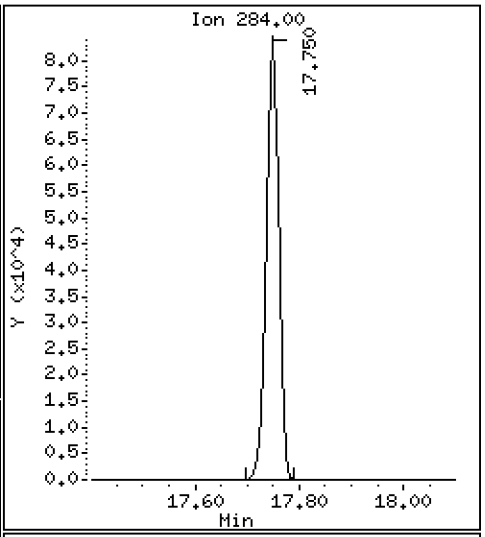
Column phase: ZB-5msi

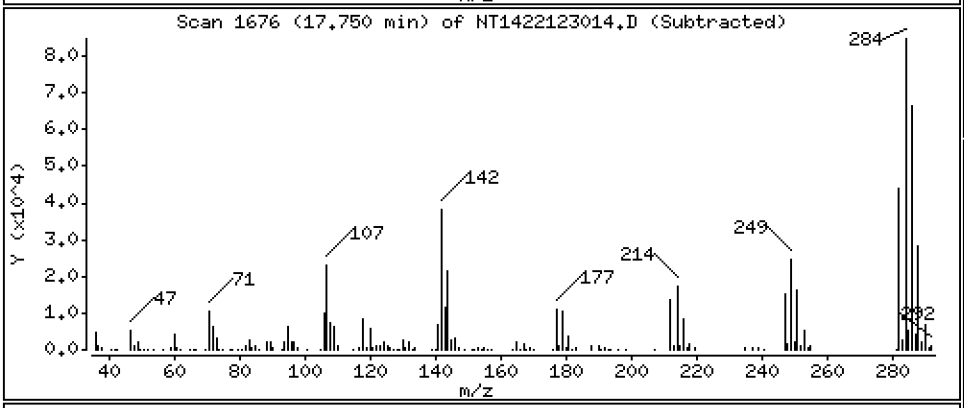
Column diameter: 0.25

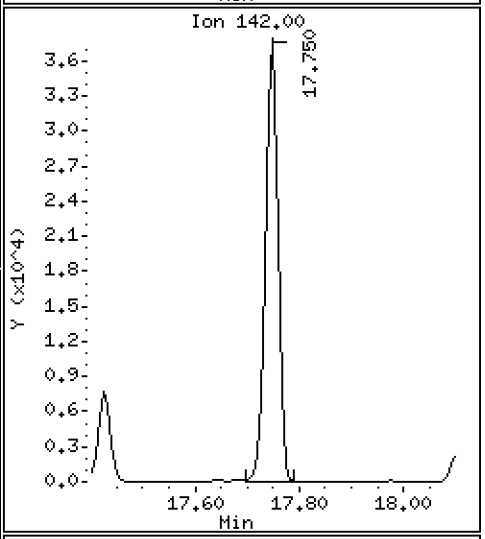
57 Hexachlorobenzene

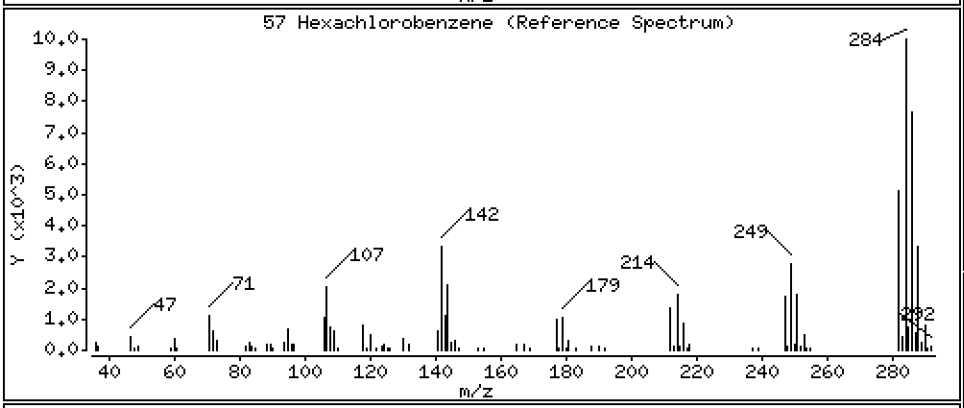
Concentration: 4.512 ug/mL

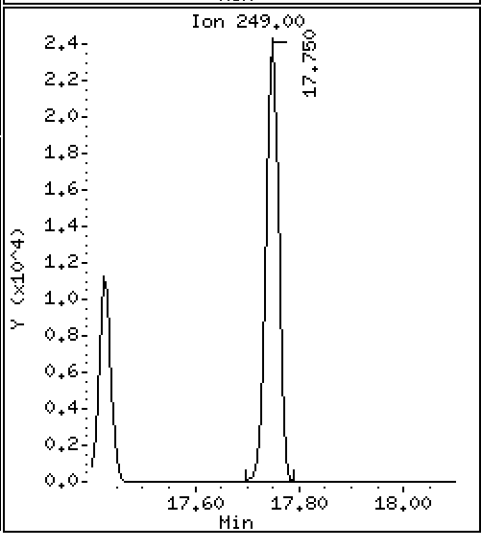


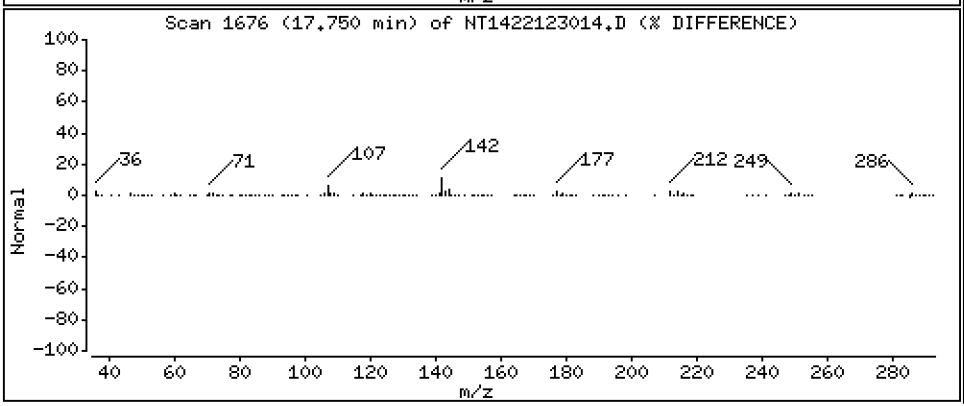












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

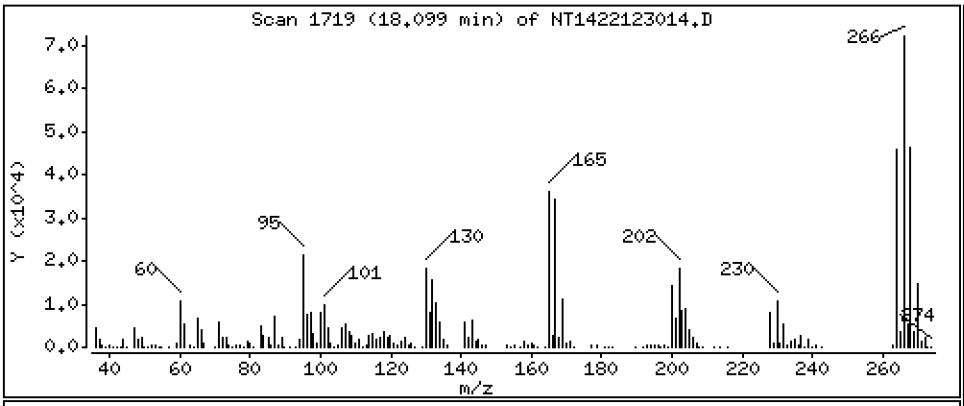
Operator: VTS

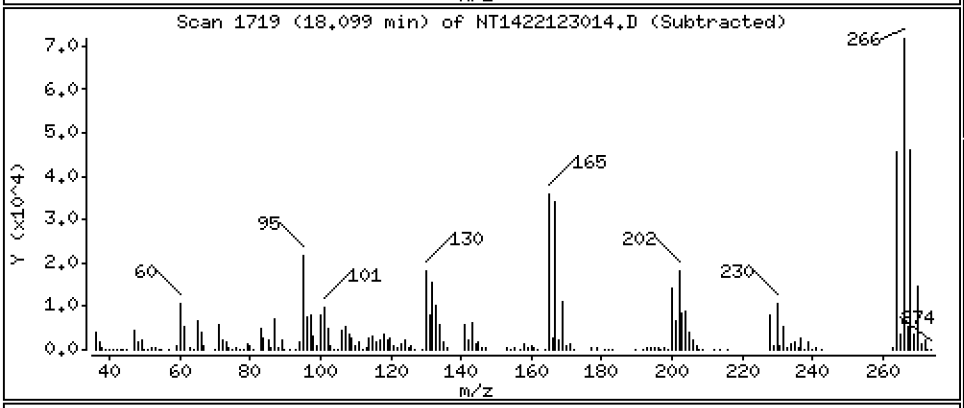
Column phase: ZB-5msi

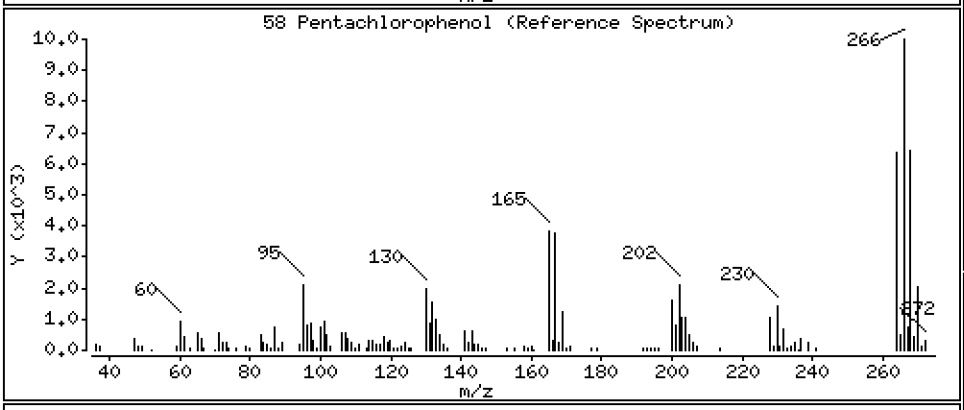
Column diameter: 0.25

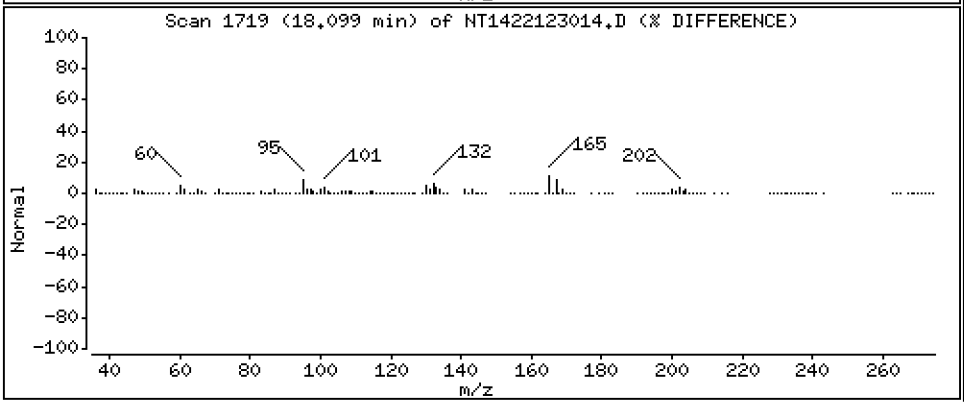
58 Pentachlorophenol

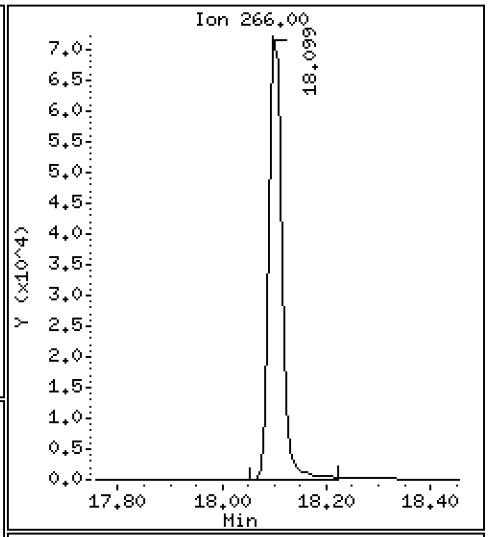
Concentration: 8.913 ug/mL

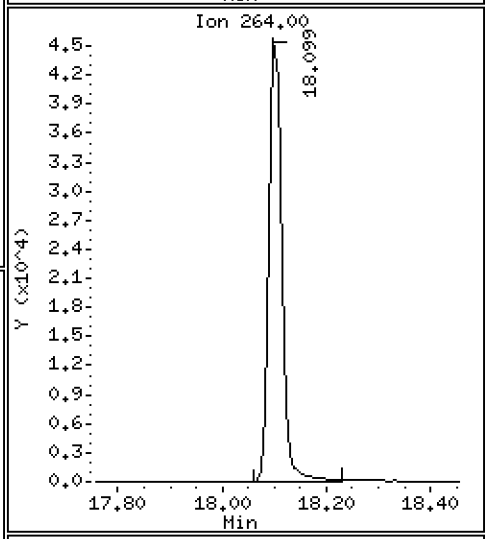


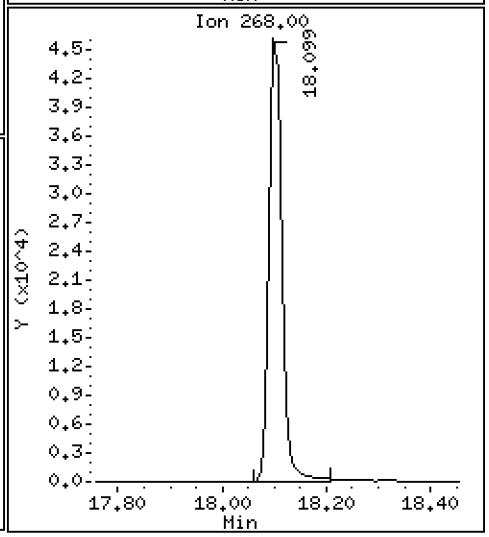












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

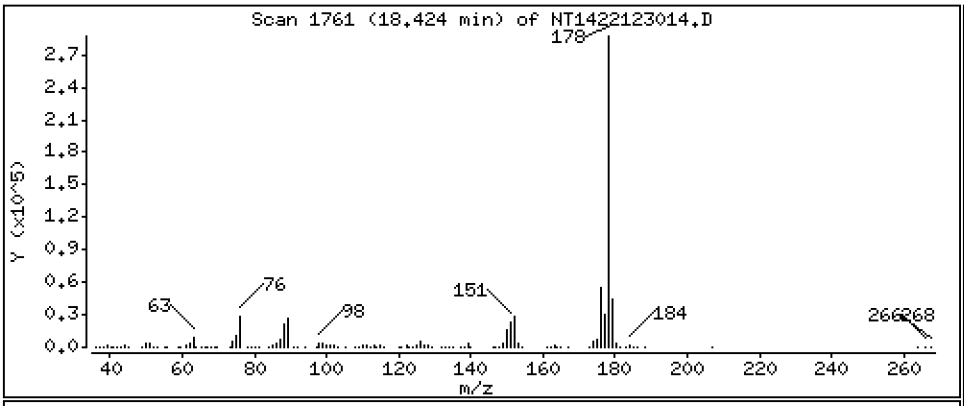
Operator: VTS

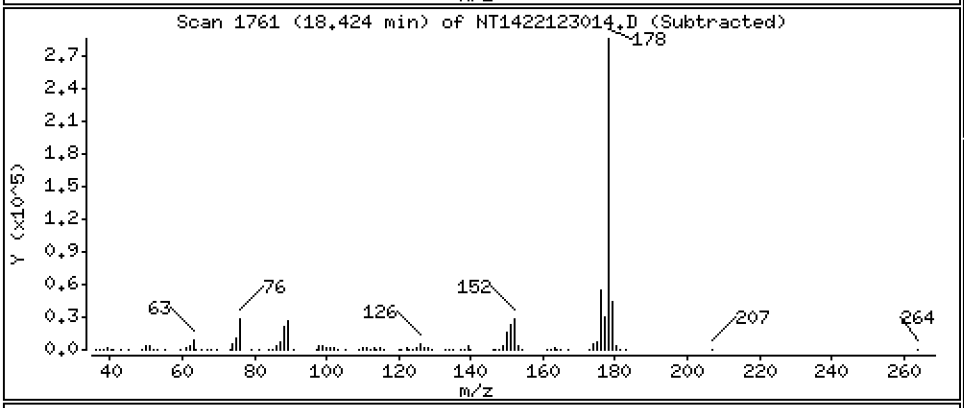
Column phase: ZB-5msi

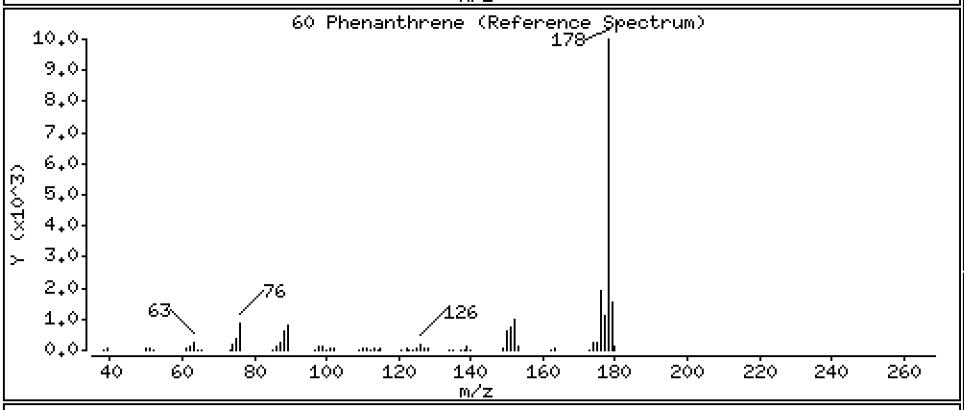
Column diameter: 0.25

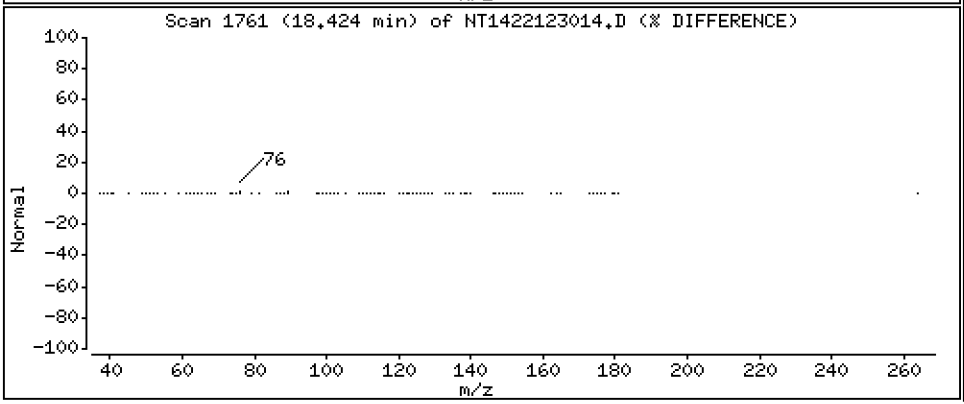
60 Phenanthrene

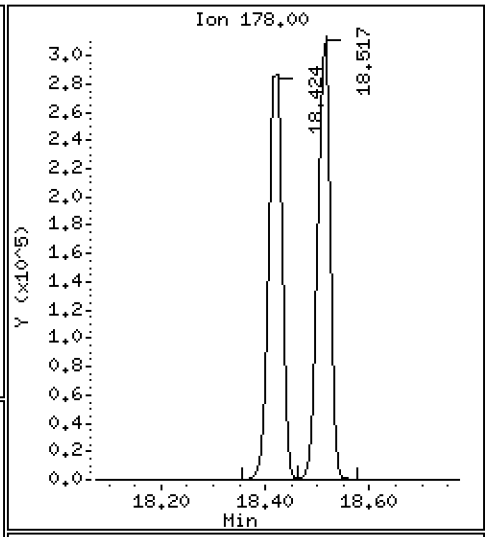
Concentration: 4.591 ug/mL

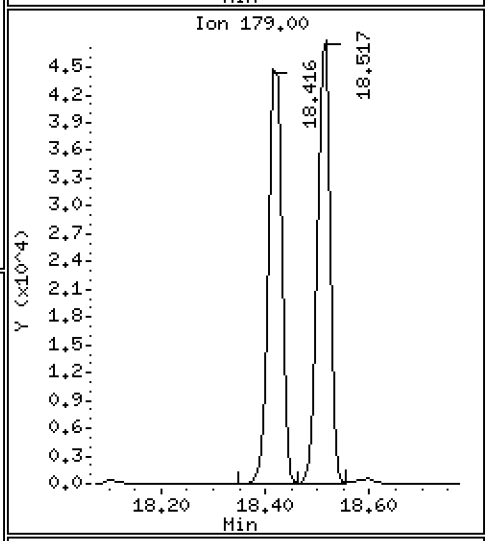


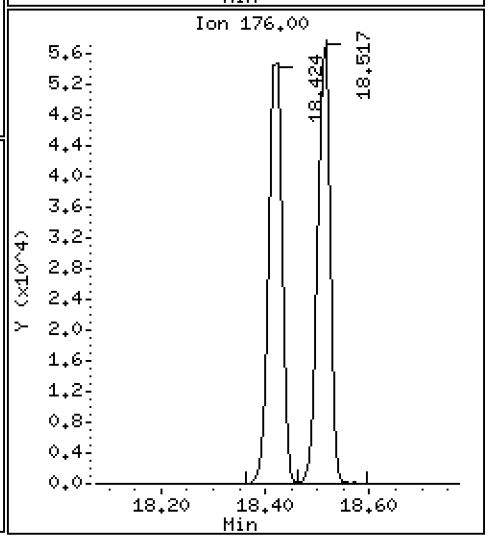












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

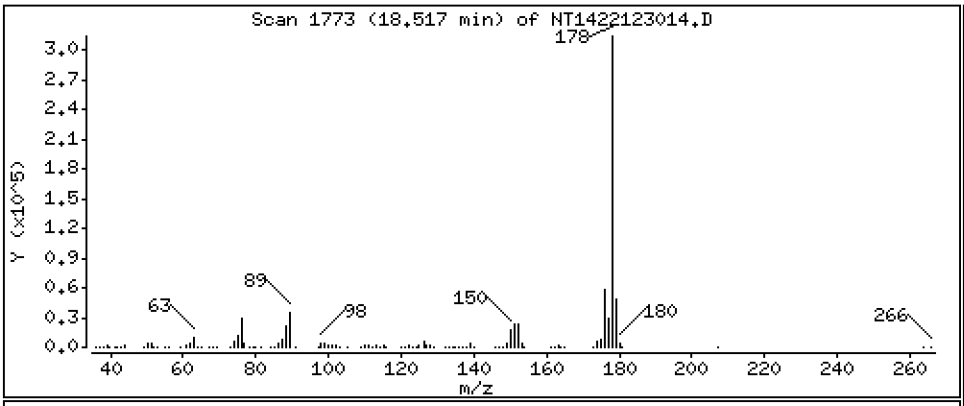
Operator: VTS

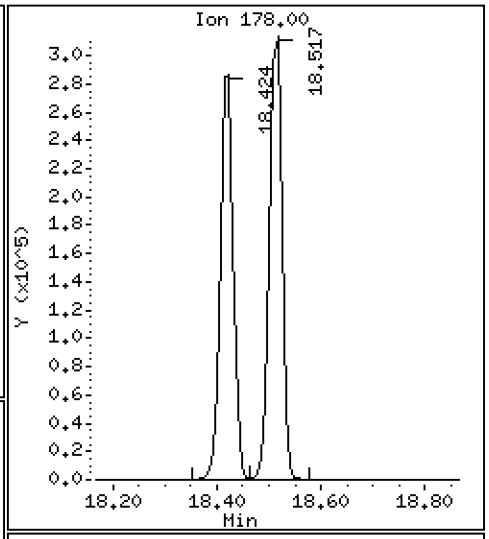
Column phase: ZB-5msi

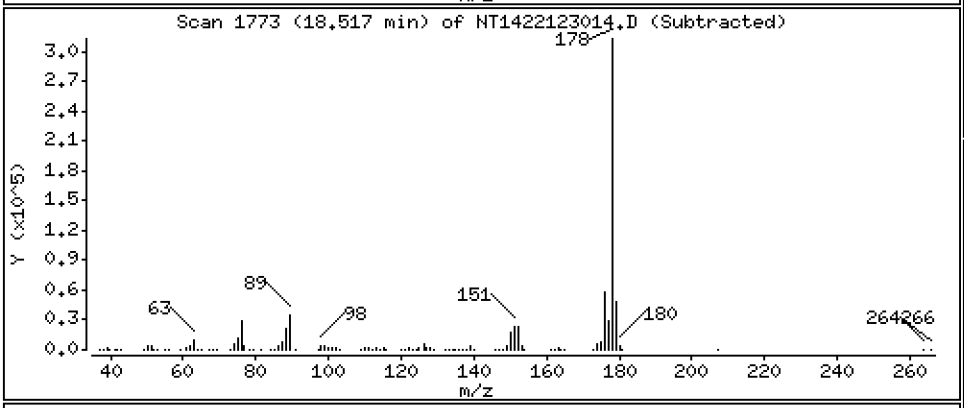
Column diameter: 0.25

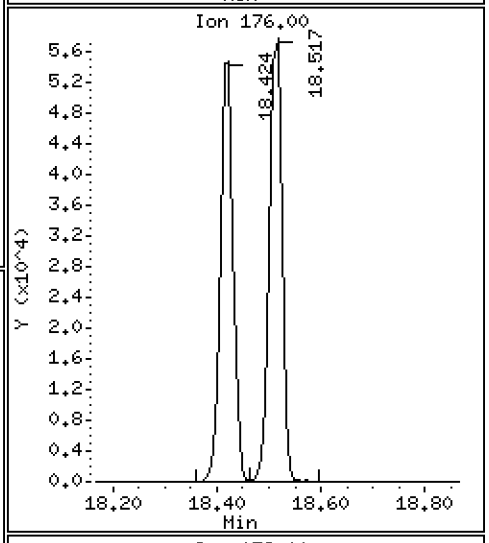
61 Anthracene

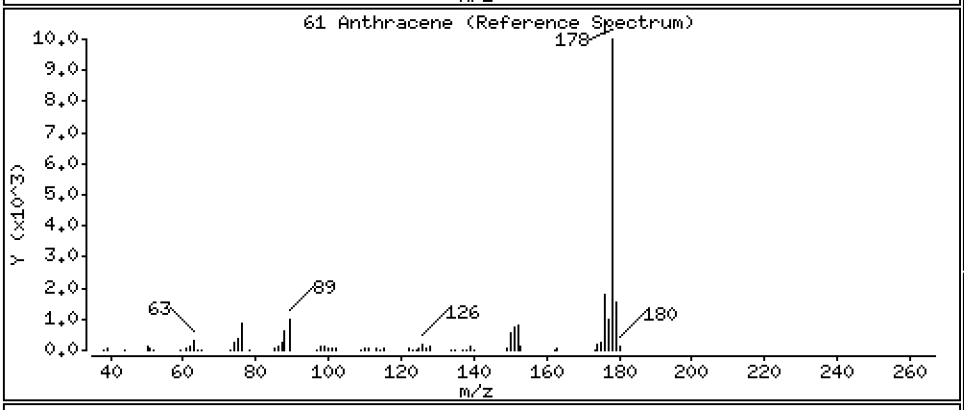
Concentration: 4.879 ug/mL

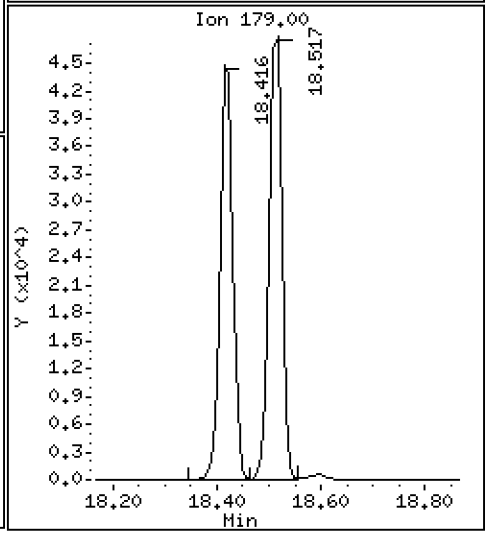


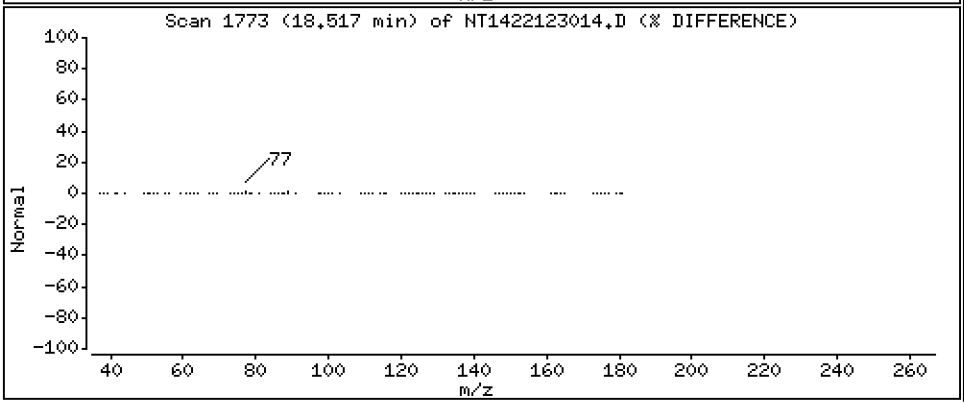












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

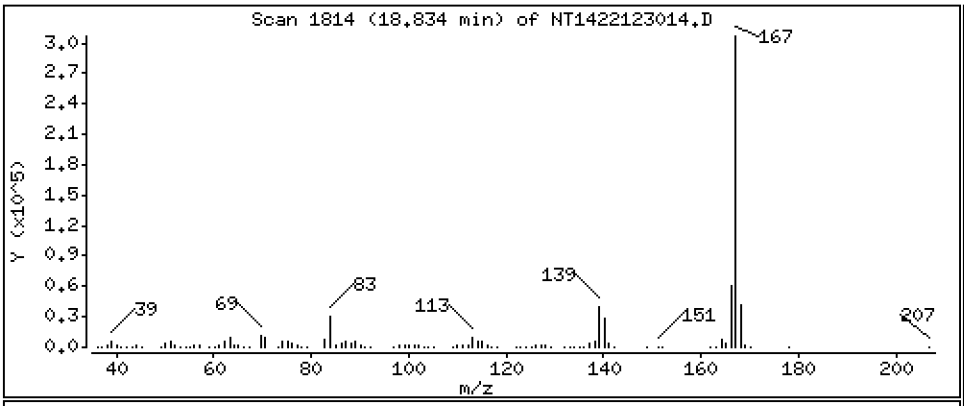
Operator: VTS

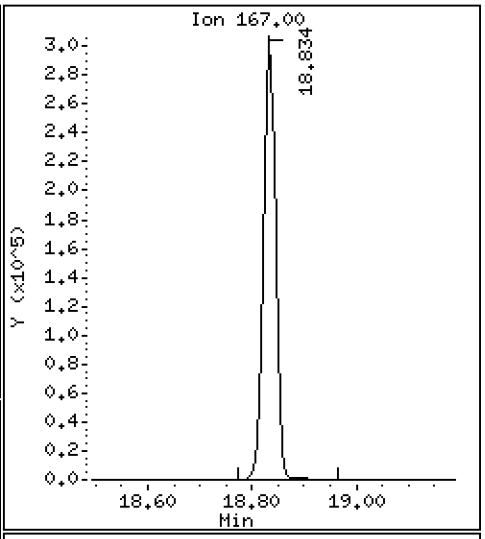
Column phase: ZB-5msi

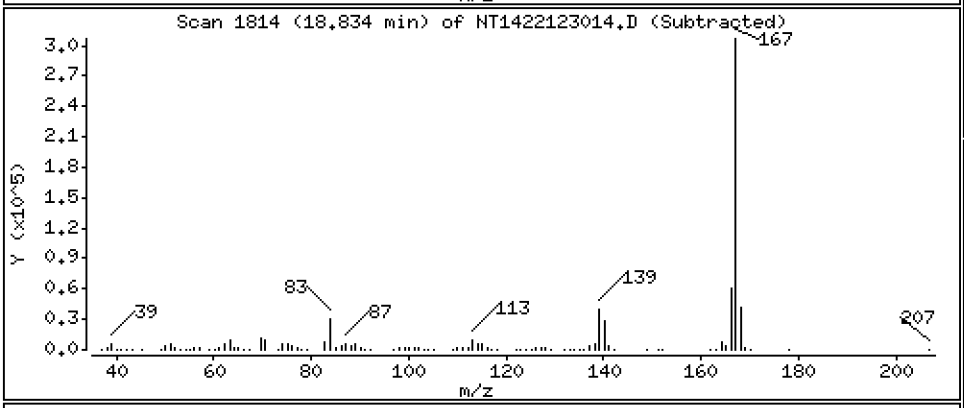
Column diameter: 0.25

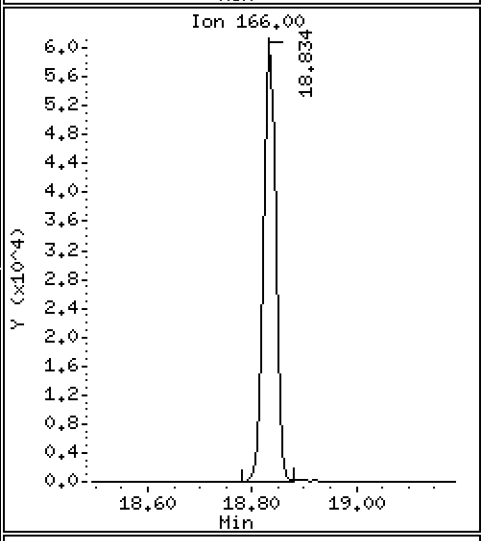
62 Carbazole

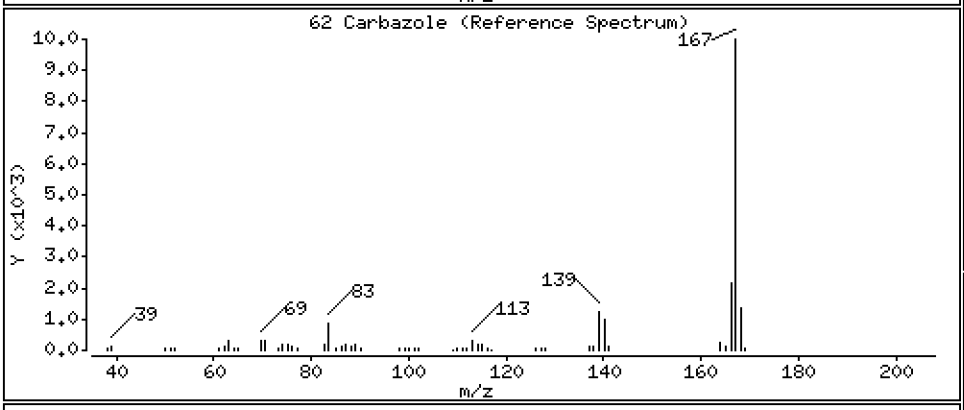
Concentration: 4.678 ug/mL

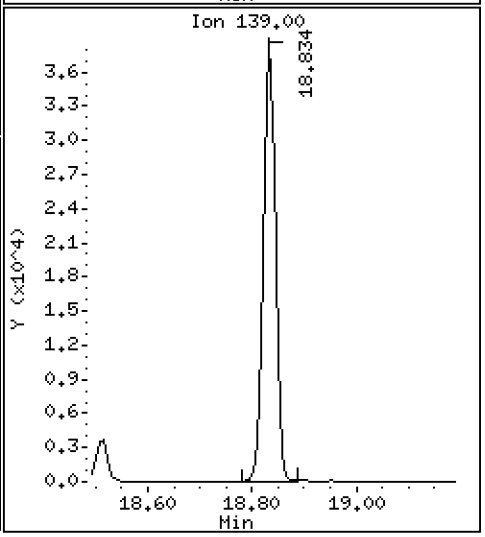


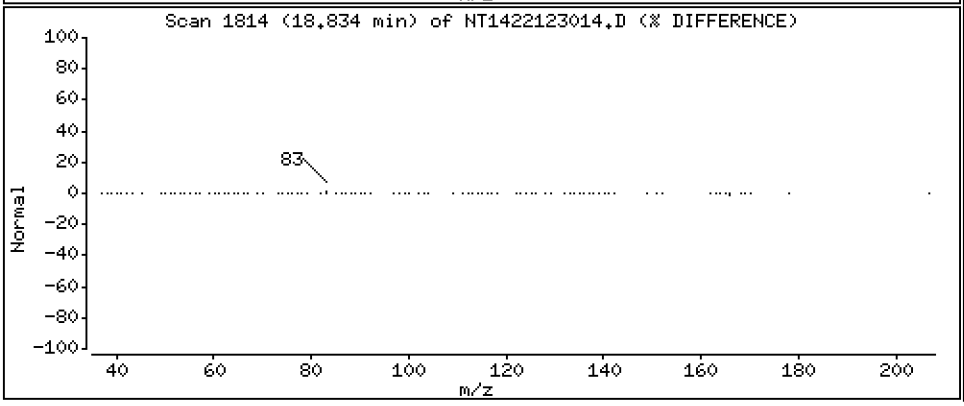












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

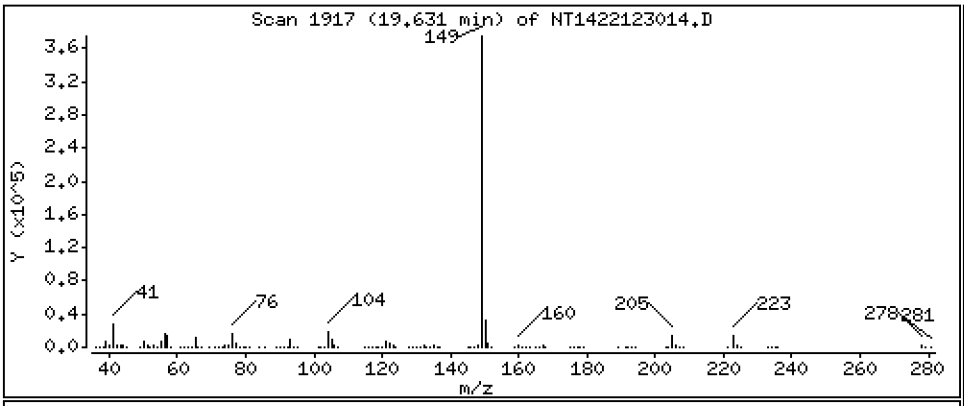
Operator: VTS

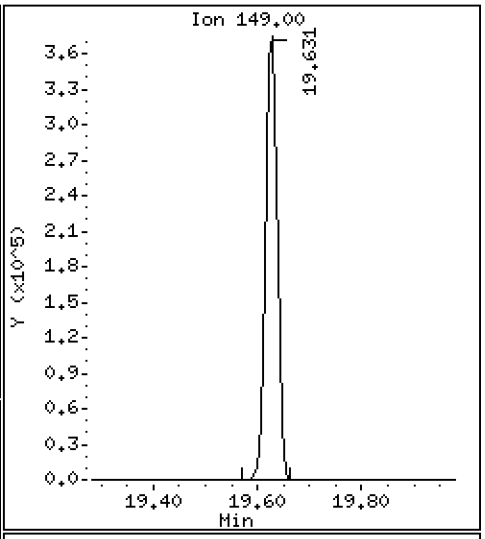
Column phase: ZB-5msi

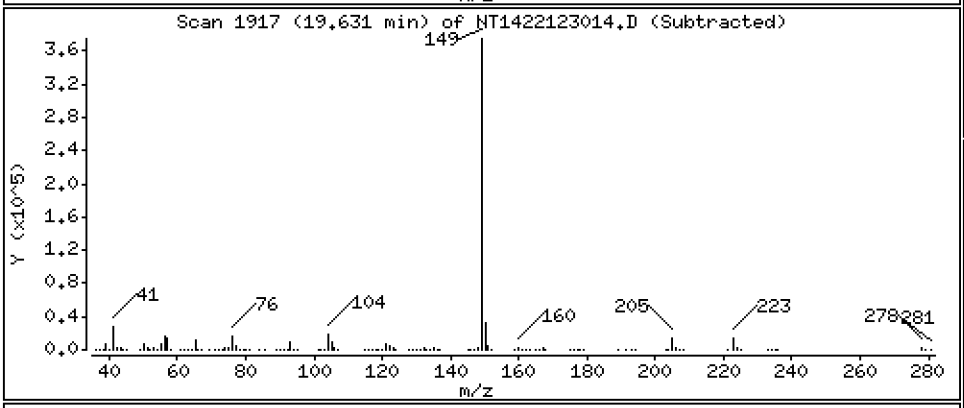
Column diameter: 0.25

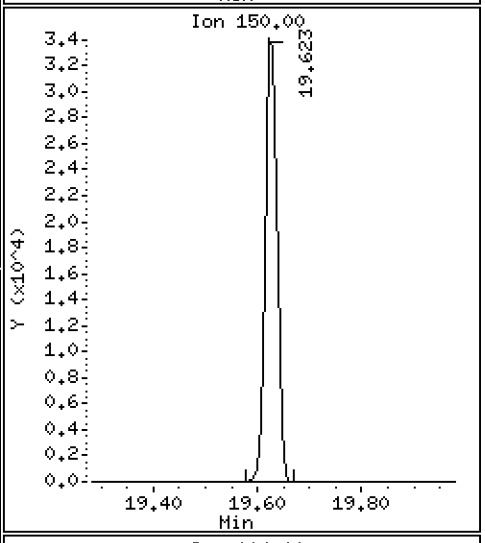
63 Di-n-butylphthalate

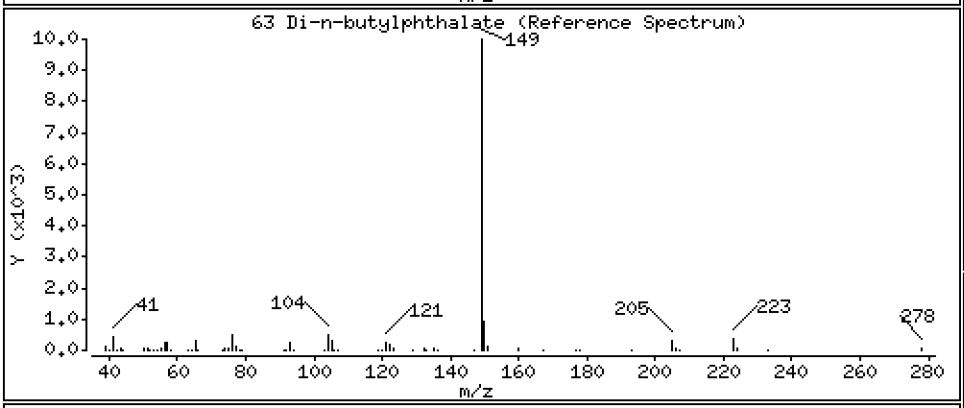
Concentration: 4.807 ug/mL

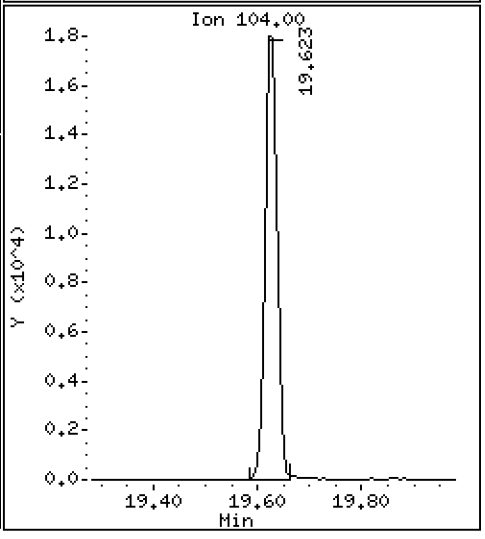


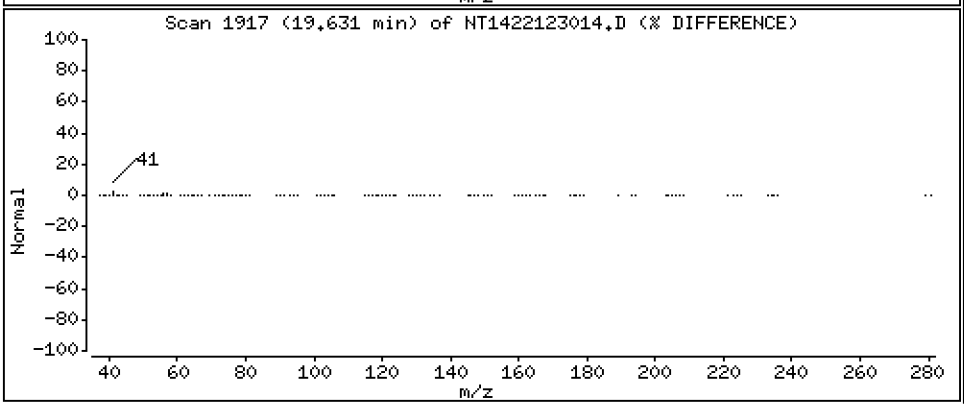












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

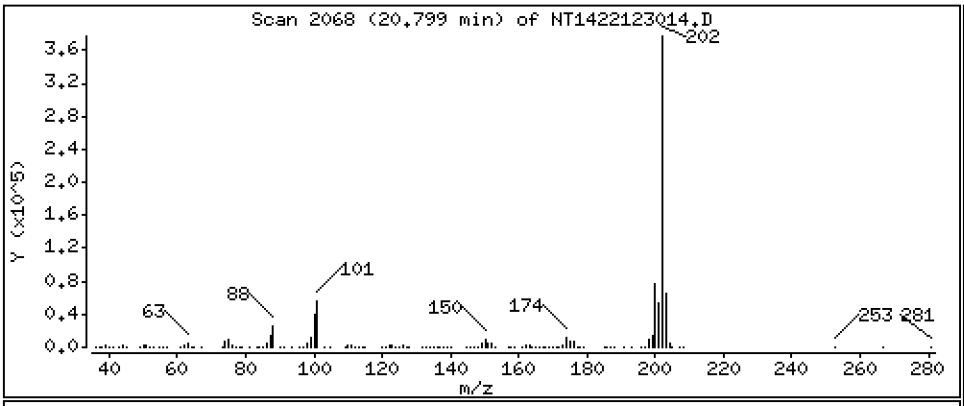
Operator: VTS

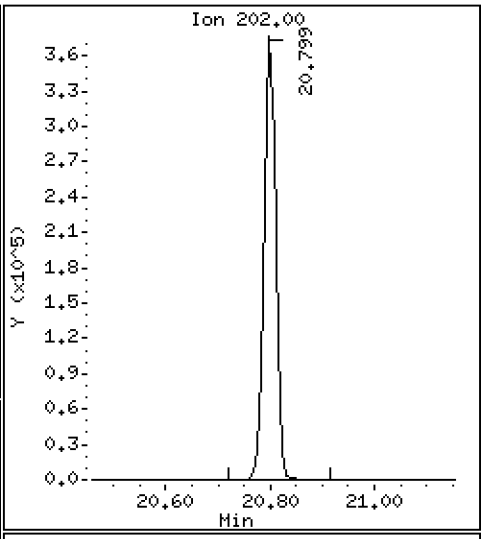
Column phase: ZB-5msi

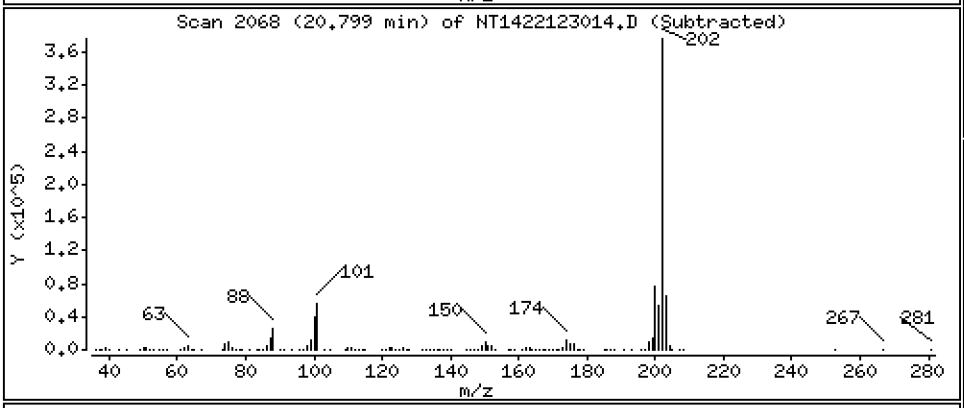
Column diameter: 0.25

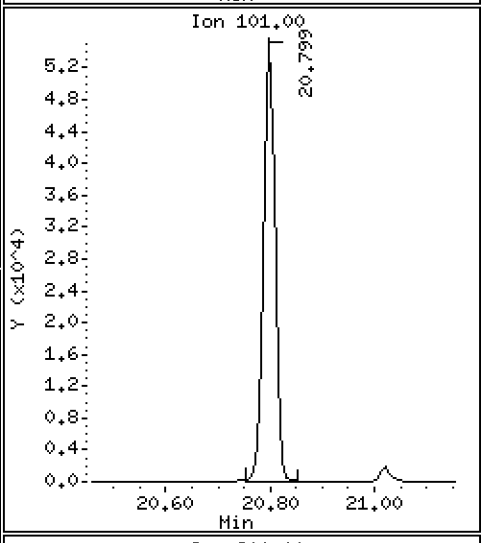
64 Fluoranthene

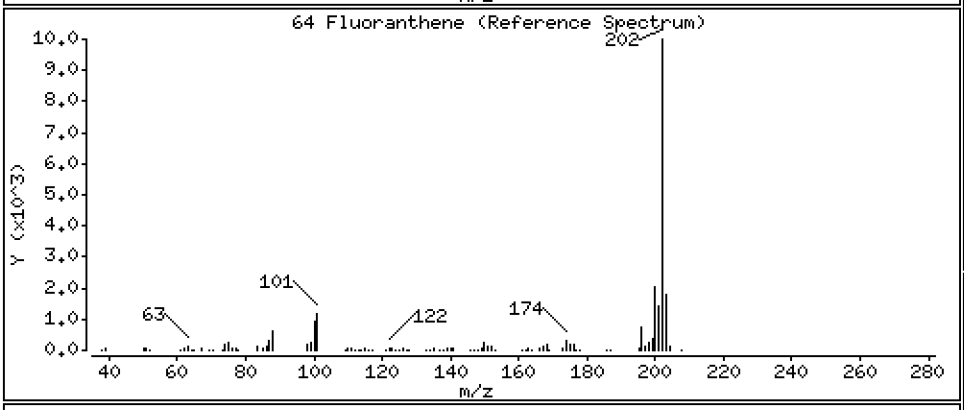
Concentration: 4.863 ug/mL

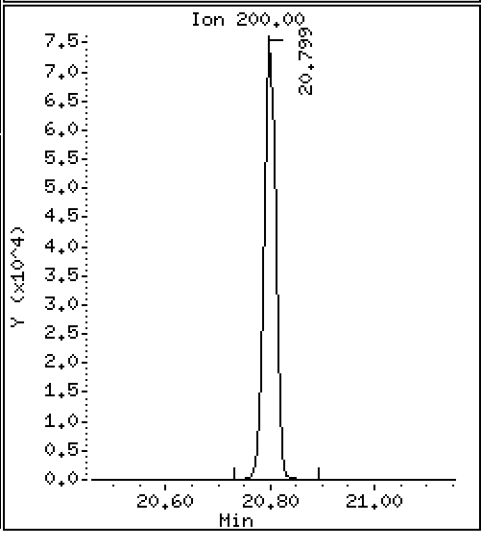


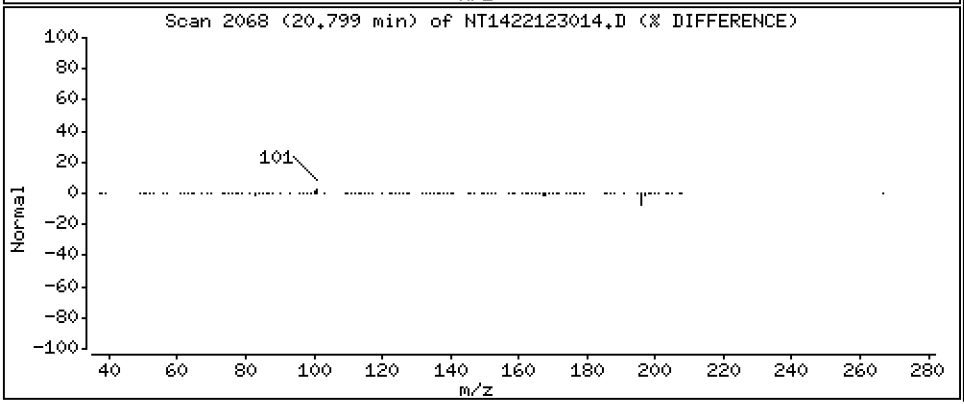












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

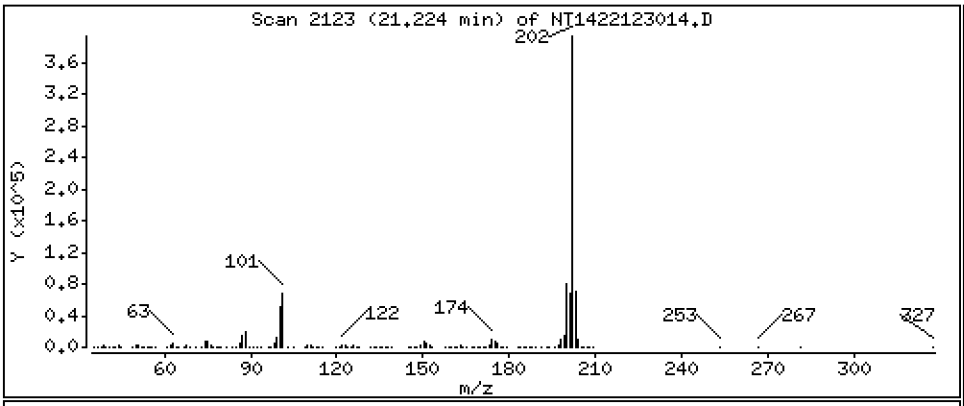
Operator: VTS

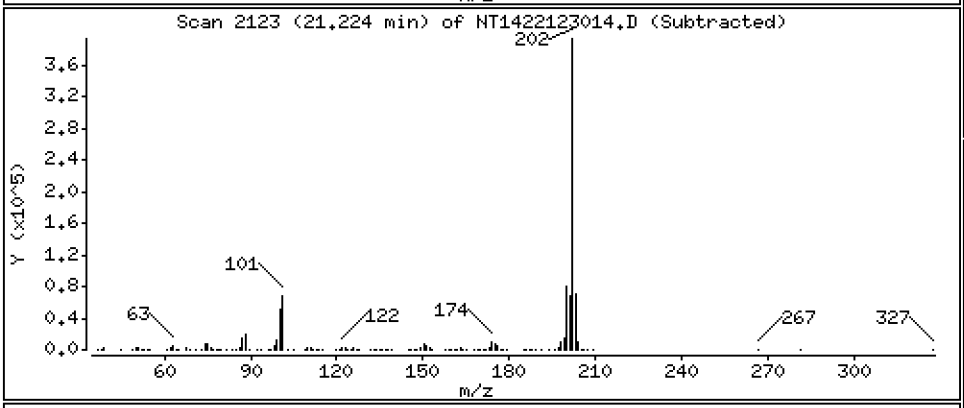
Column phase: ZB-5msi

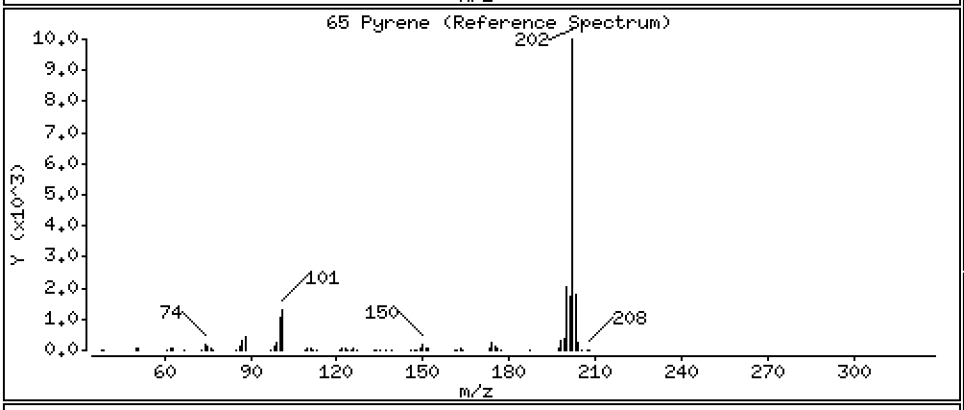
Column diameter: 0.25

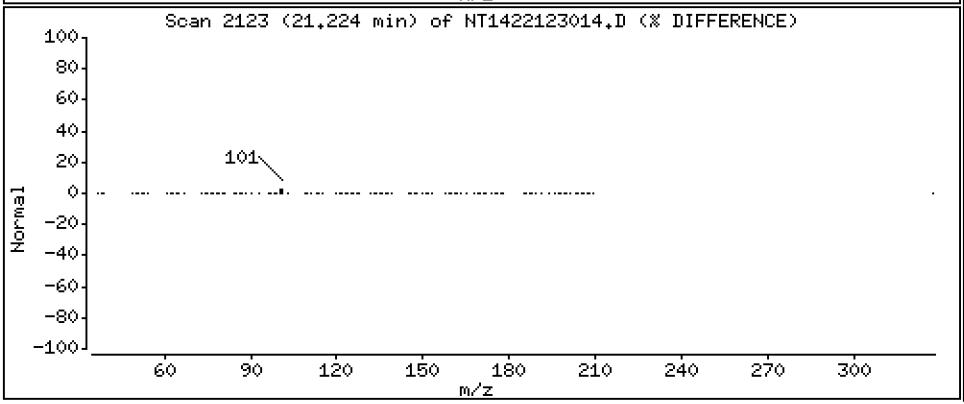
65 Pyrene

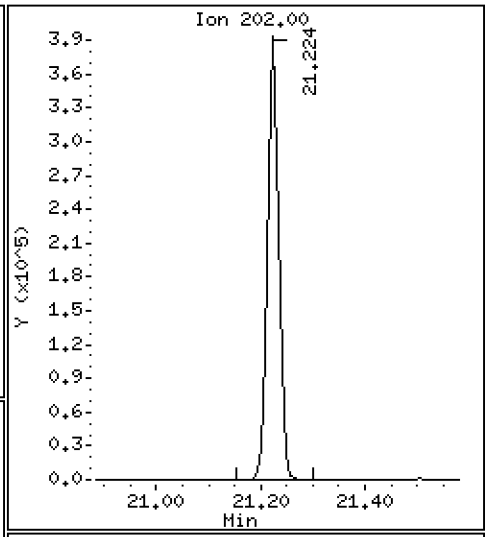
Concentration: 4.842 ug/mL

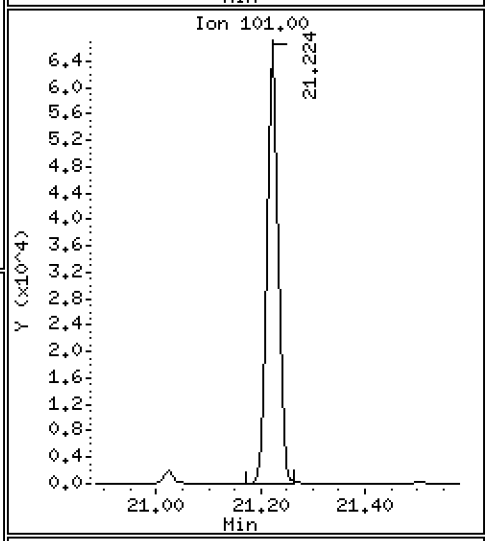


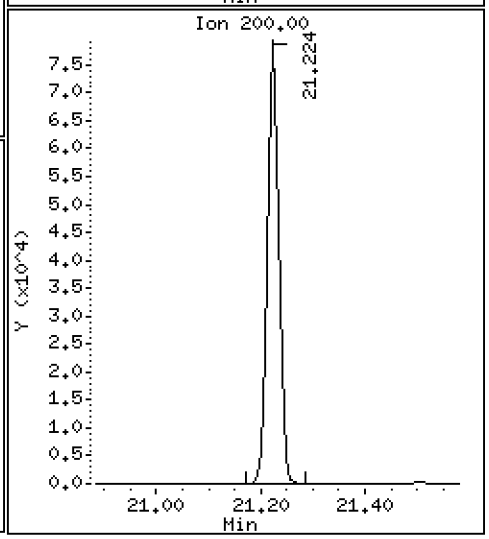












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

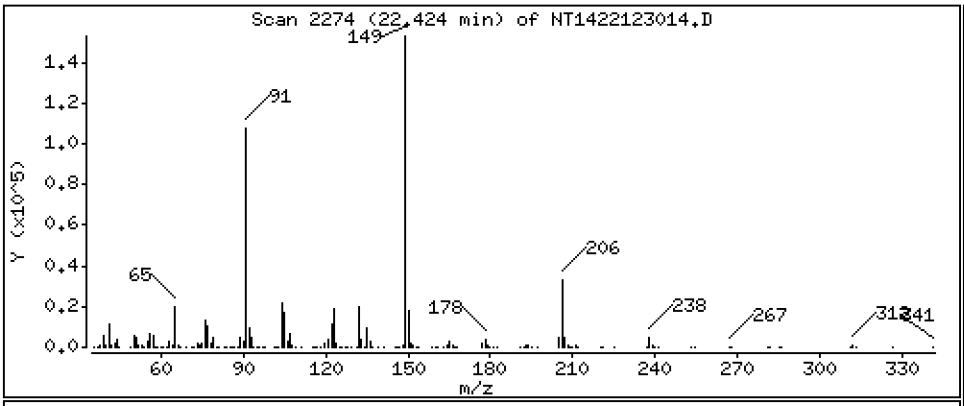
Operator: VTS

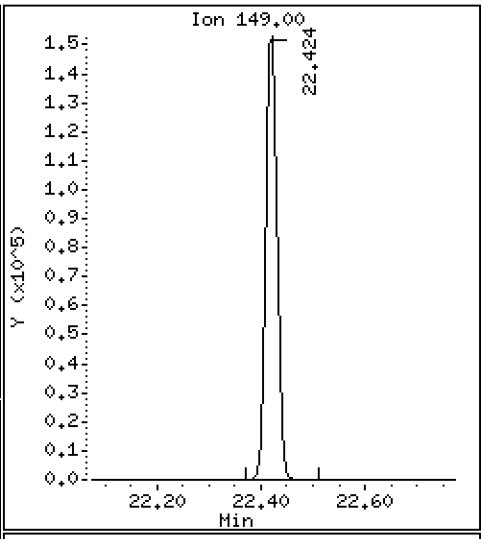
Column phase: ZB-5msi

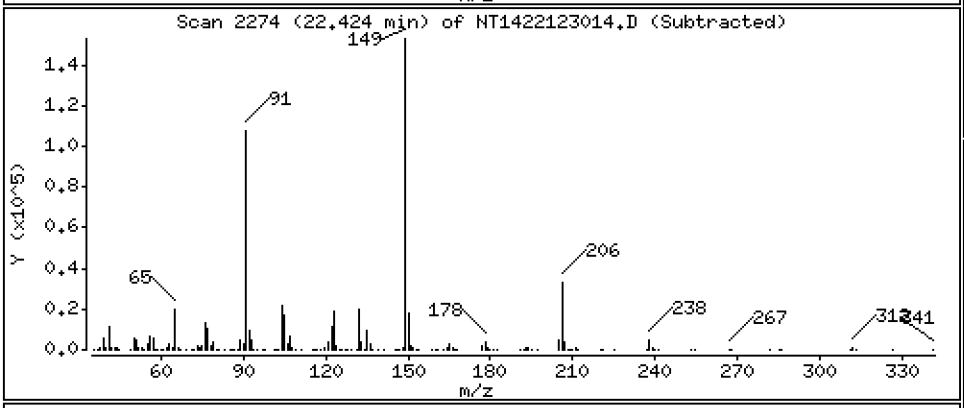
Column diameter: 0.25

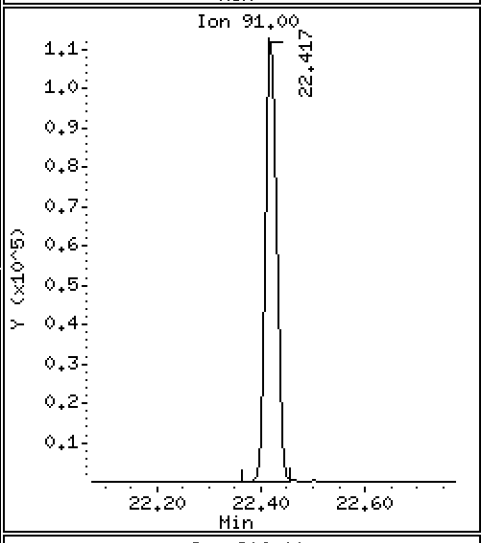
67 Butylbenzylphthalate

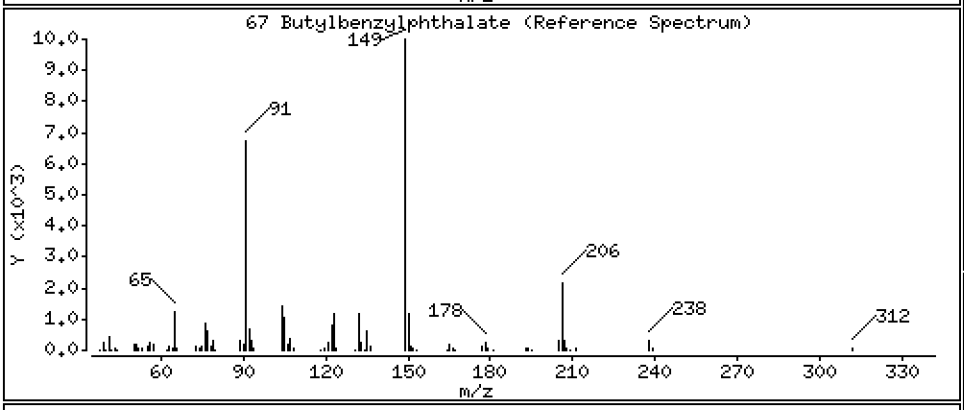
Concentration: 4.869 ug/mL

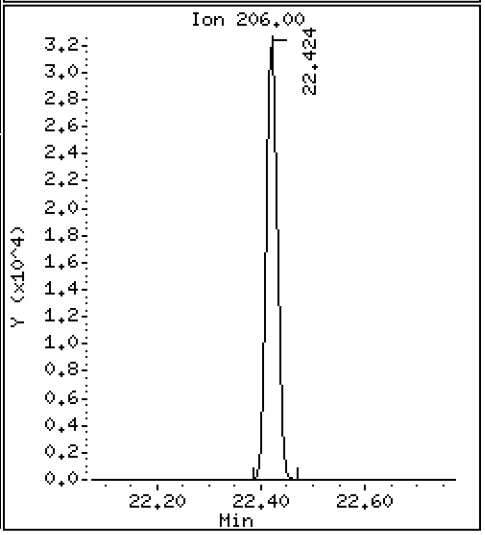


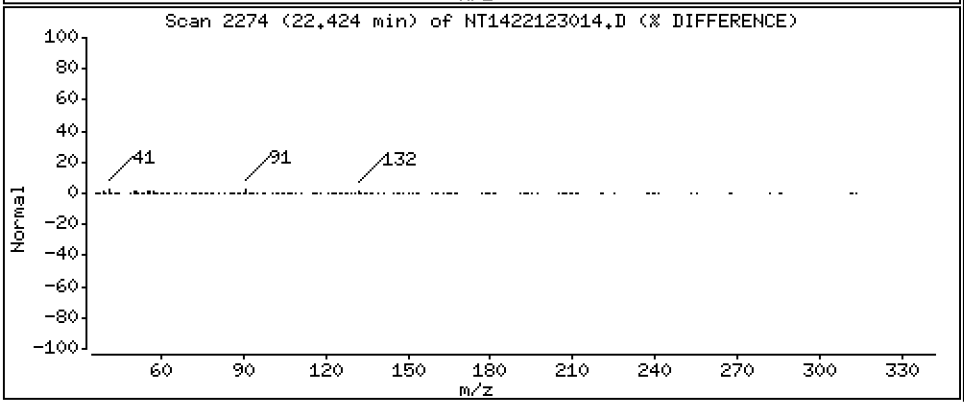












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

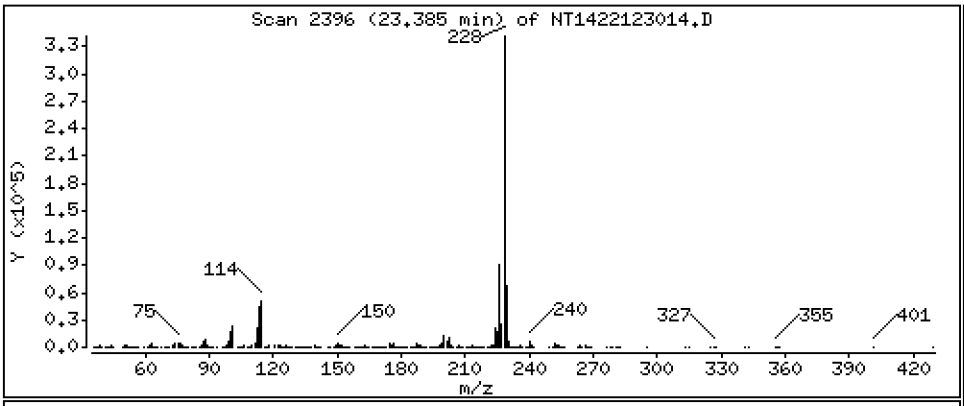
Operator: VTS

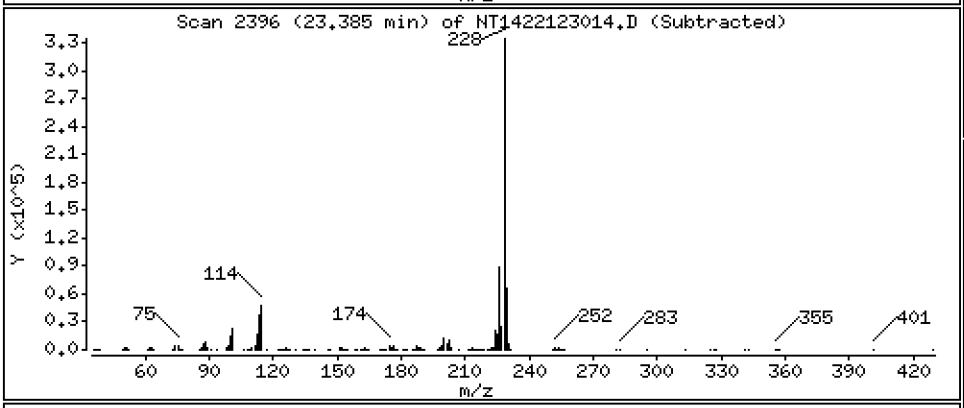
Column phase: ZB-5msi

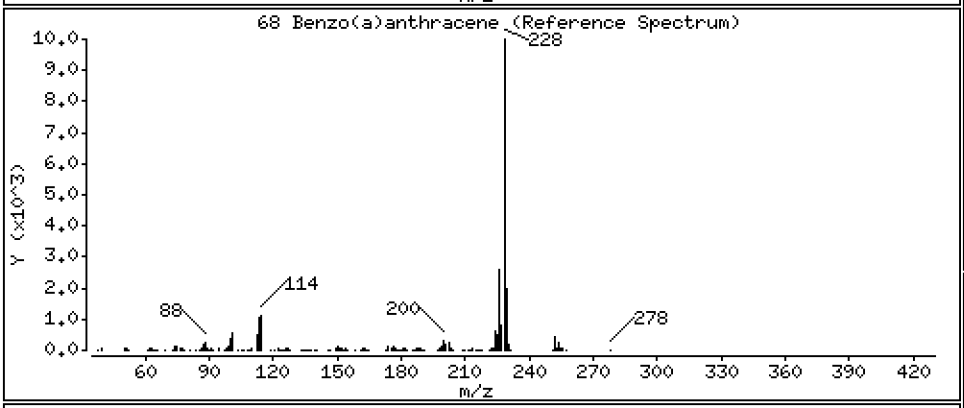
Column diameter: 0.25

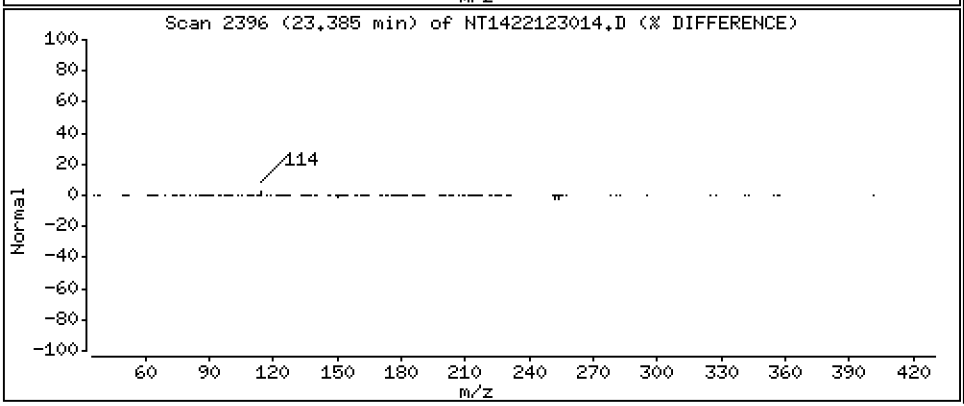
68 Benzo(a)anthracene

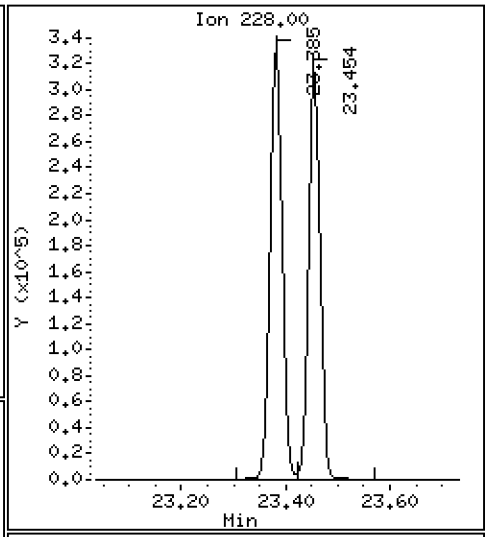
Concentration: 4.796 ug/mL

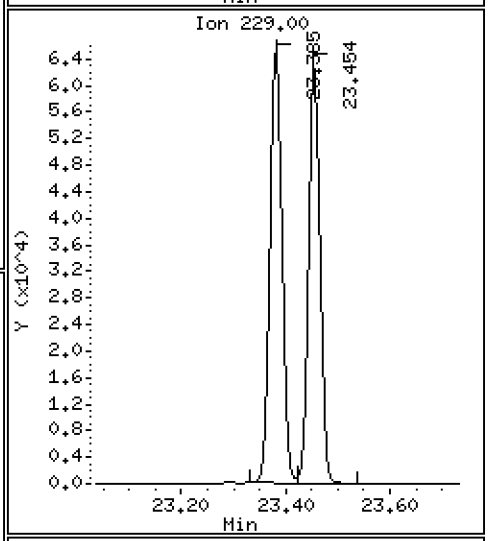


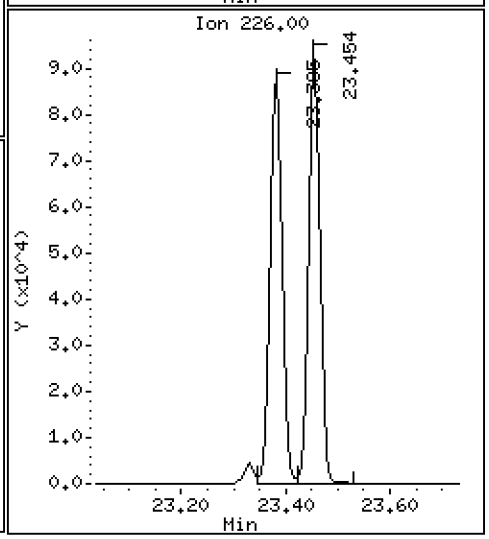












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

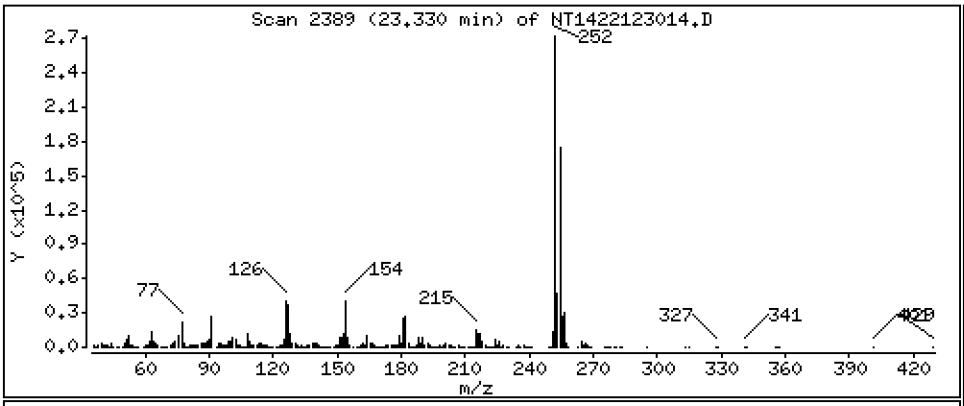
Operator: VTS

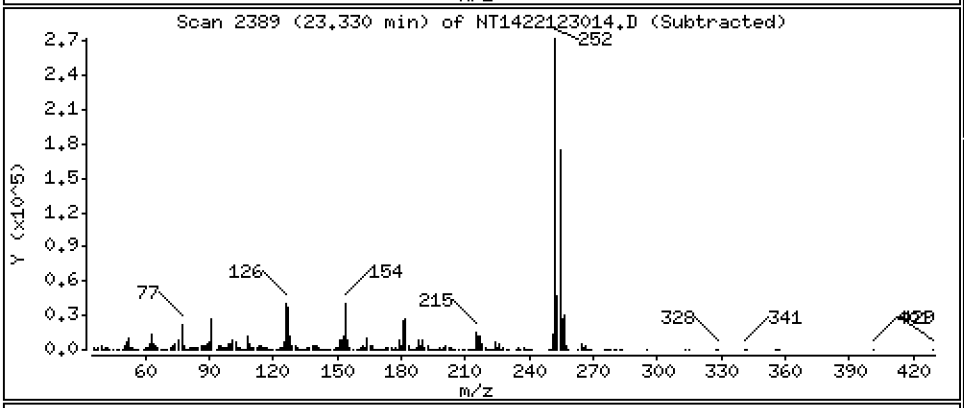
Column phase: ZB-5msi

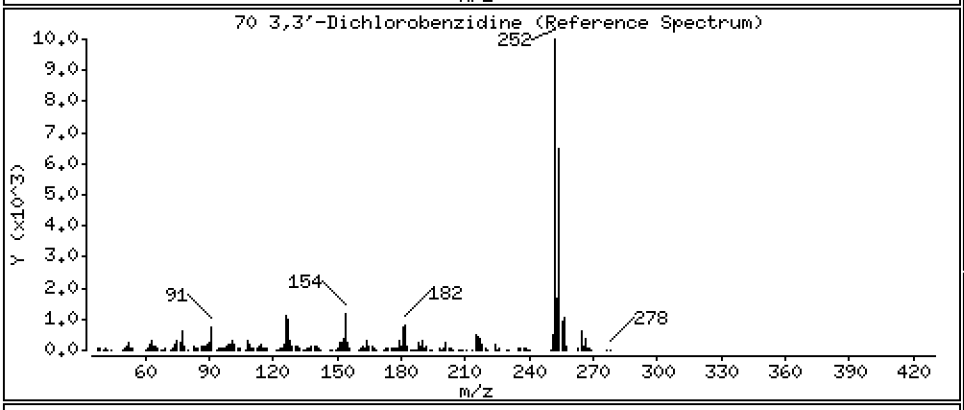
Column diameter: 0.25

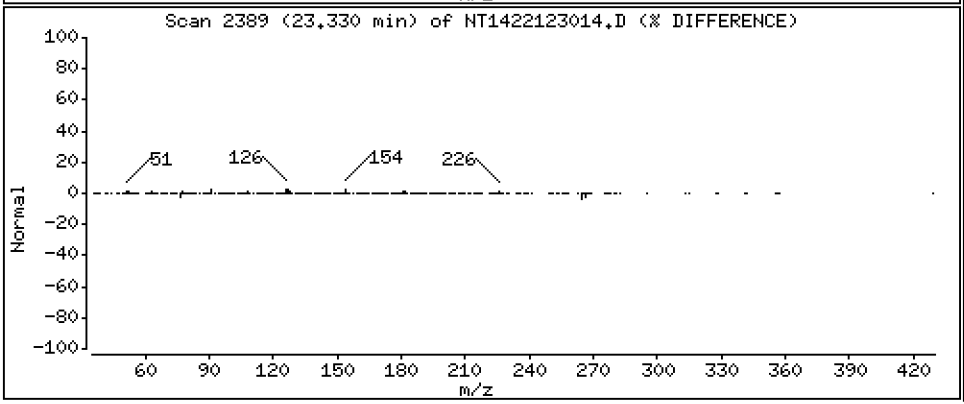
70 3,3'-Dichlorobenzidine

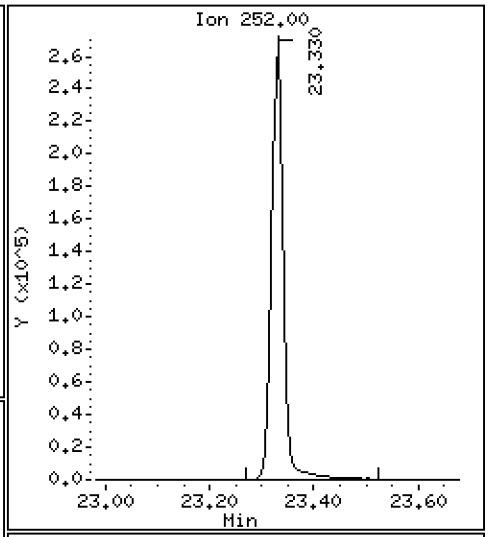
Concentration: 12.25 ug/mL

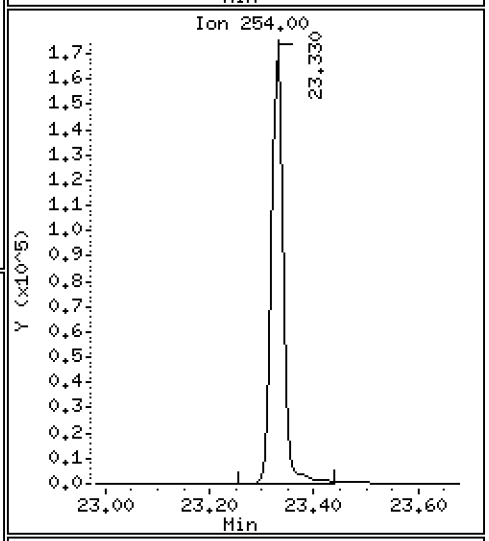


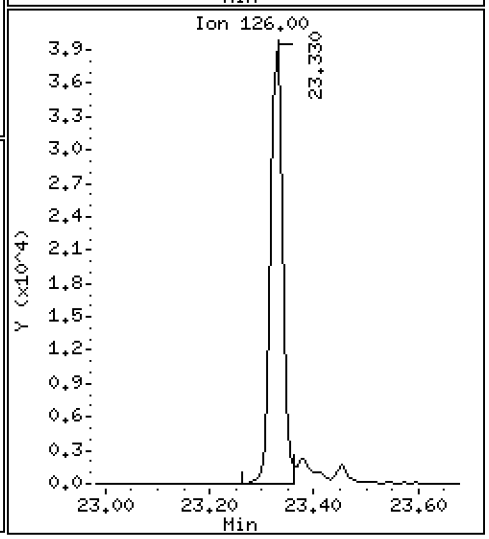












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

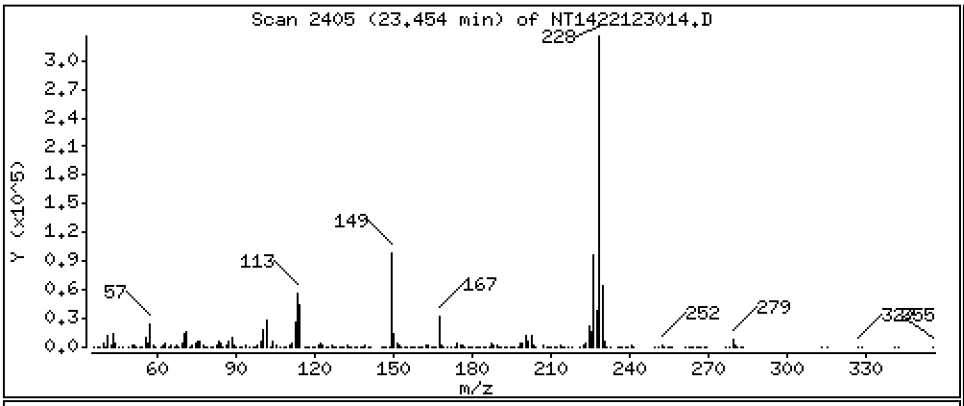
Operator: VTS

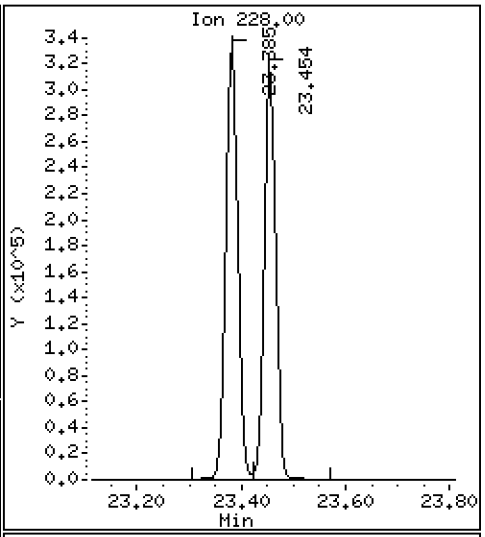
Column phase: ZB-5msi

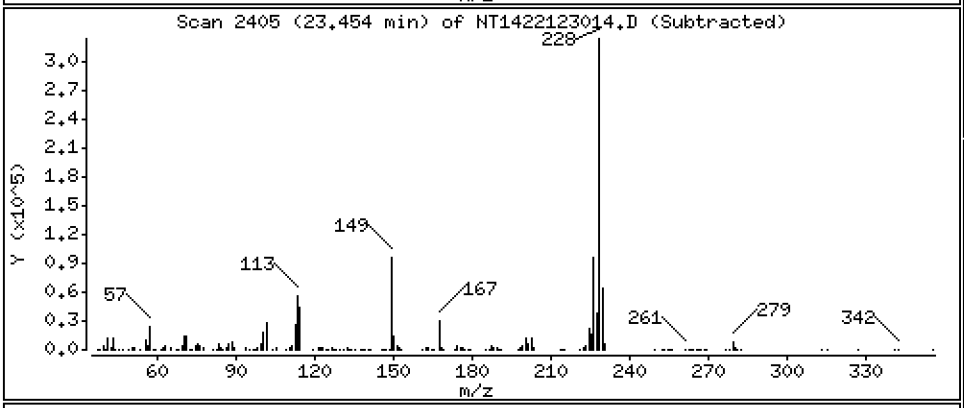
Column diameter: 0.25

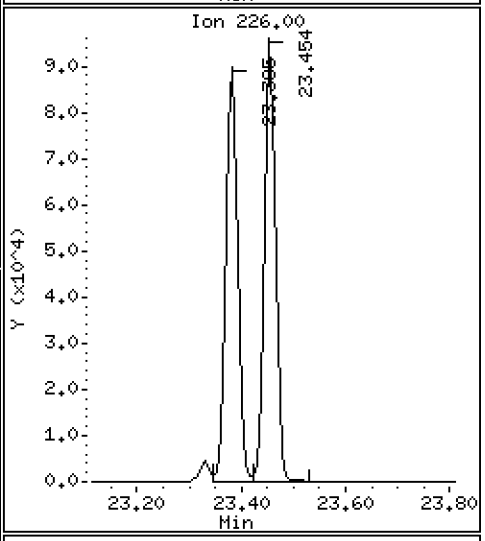
71 Chrysene

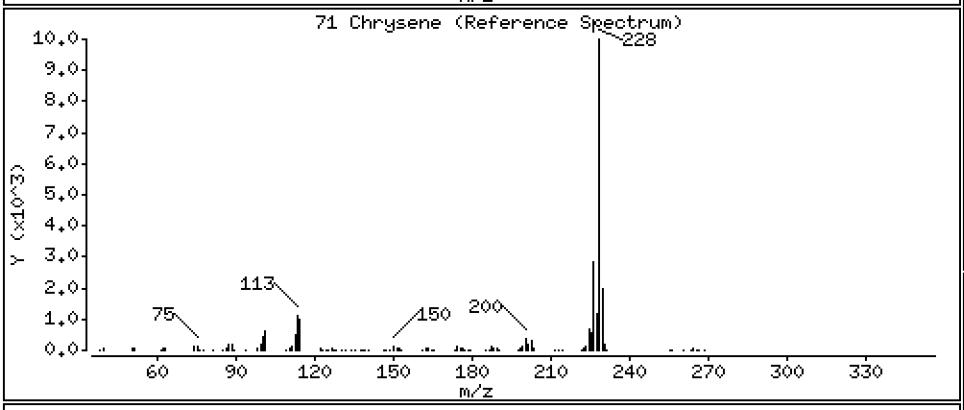
Concentration: 4.690 ug/mL

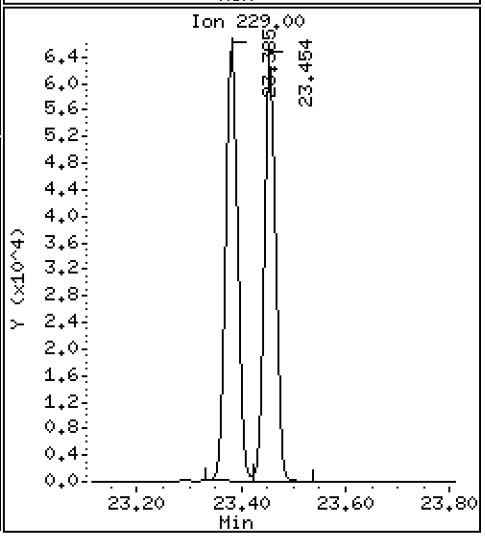


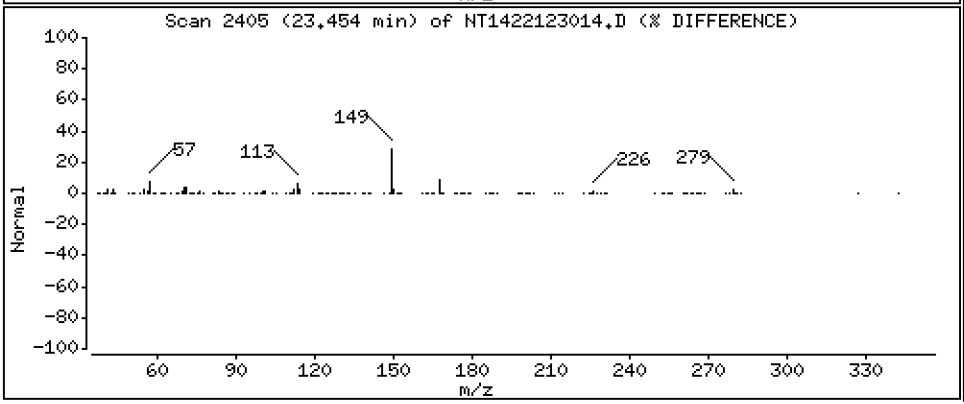












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

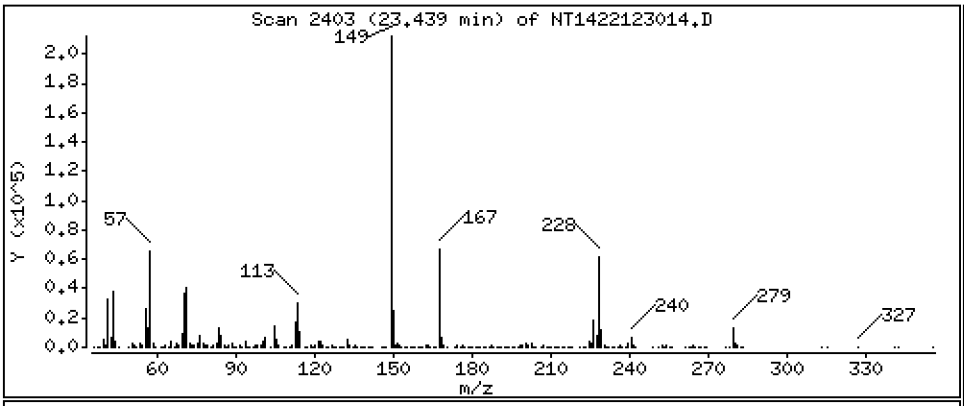
Operator: VTS

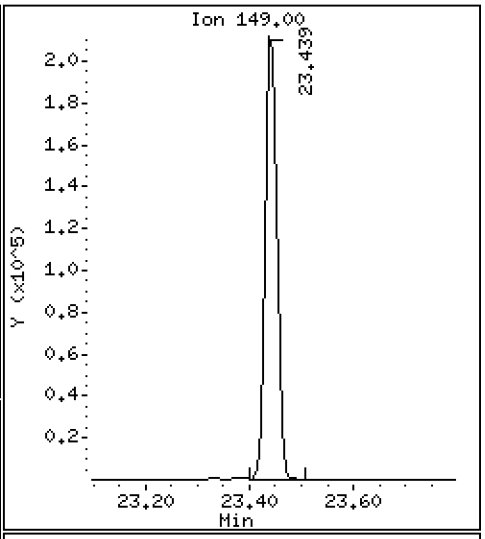
Column phase: ZB-5msi

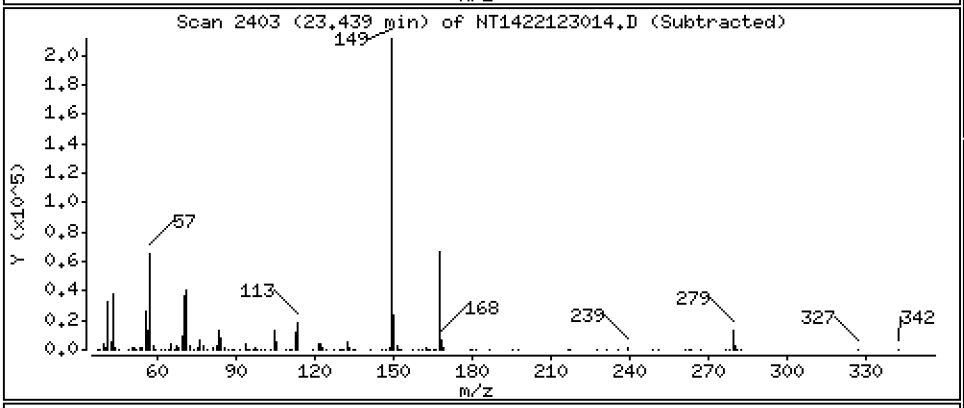
Column diameter: 0.25

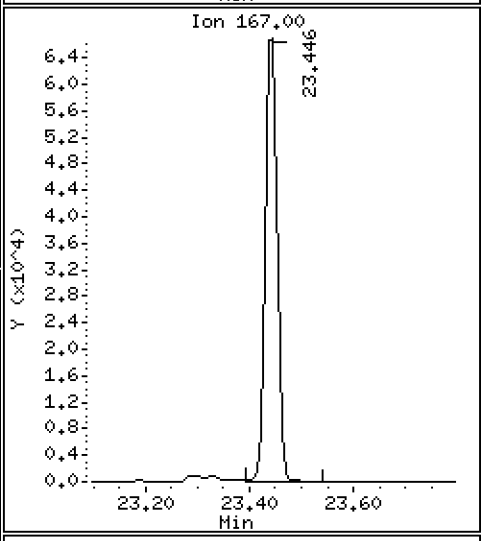
72 bis(2-Ethylhexyl)phthalate

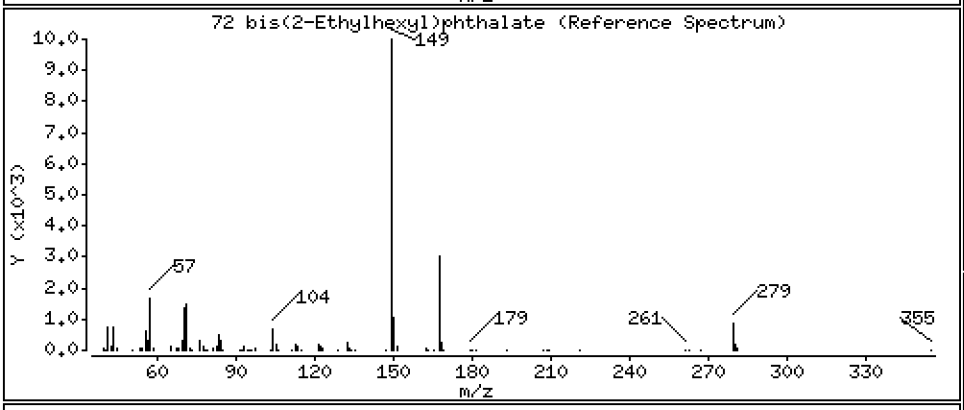
Concentration: 5.469 ug/mL

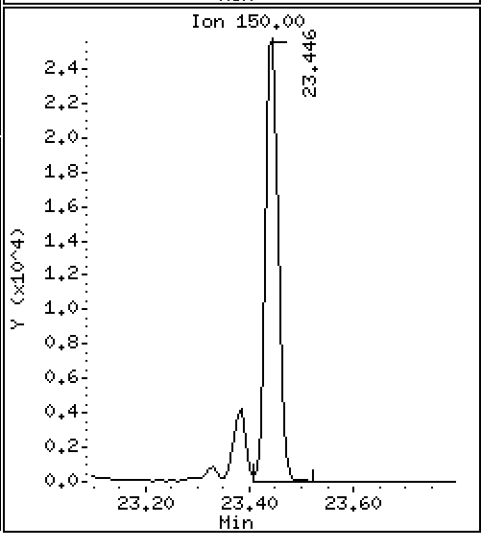


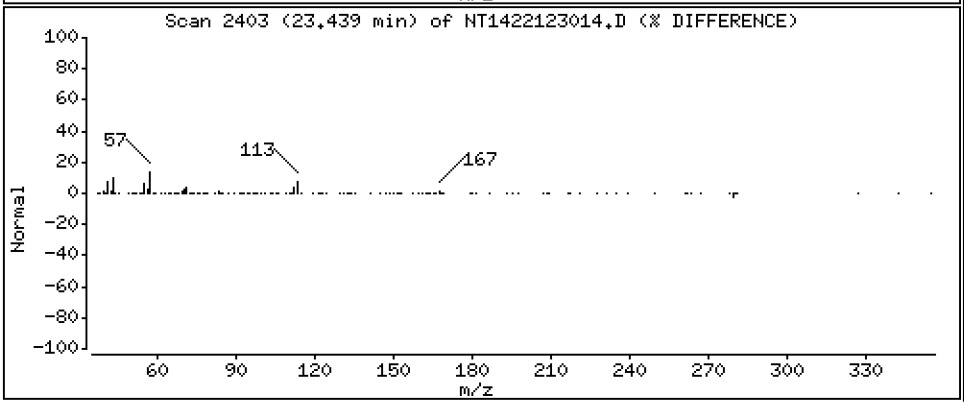












Date : 30-DEC-2022 15:53

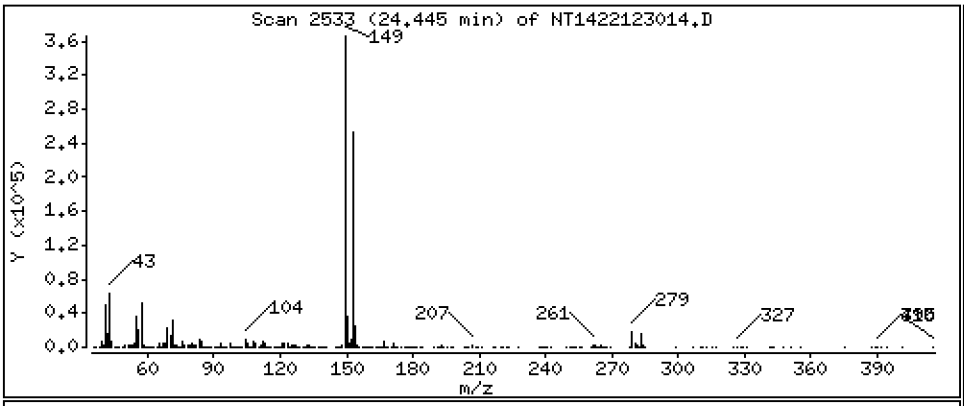
Client ID: Instrument: nt14.i

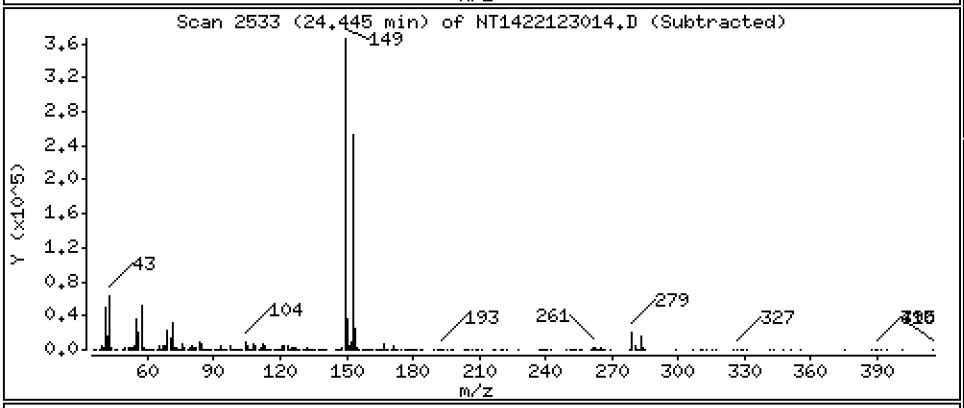
Sample Info: SKL0355-ICV2

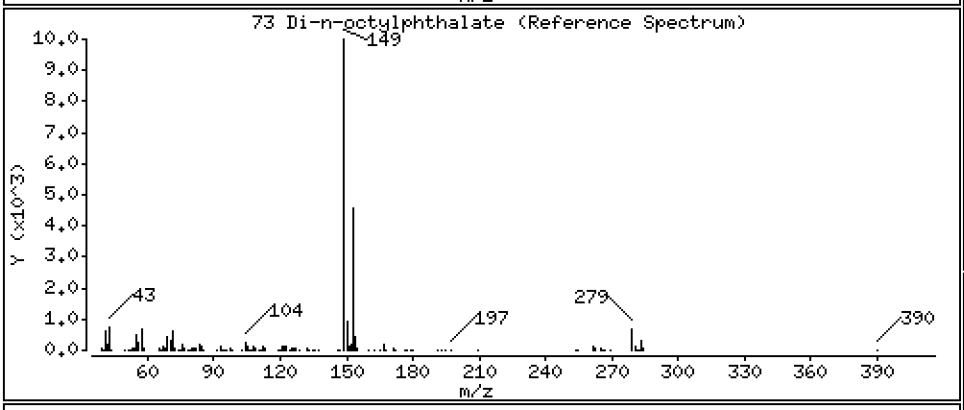
Operator: VTS

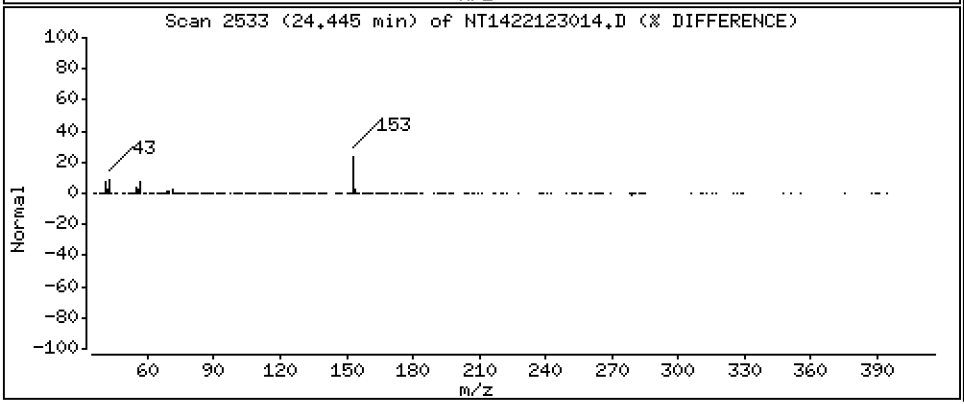
Column phase: ZB-5msi Column diameter: 0.25

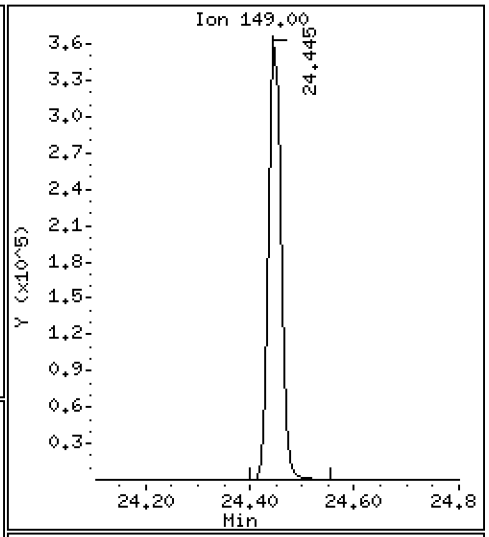
73 Di-n-octylphthalate Concentration: 4.541 ug/mL

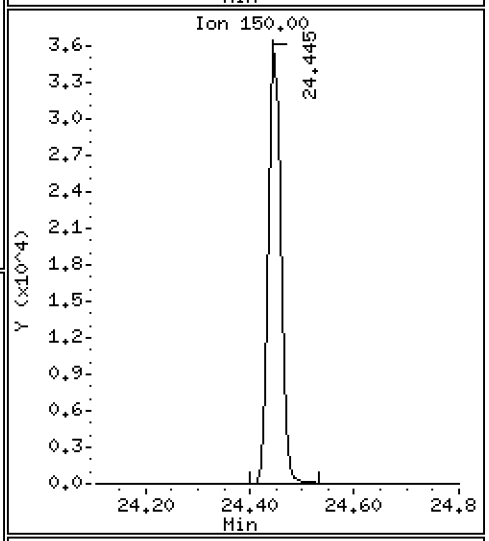


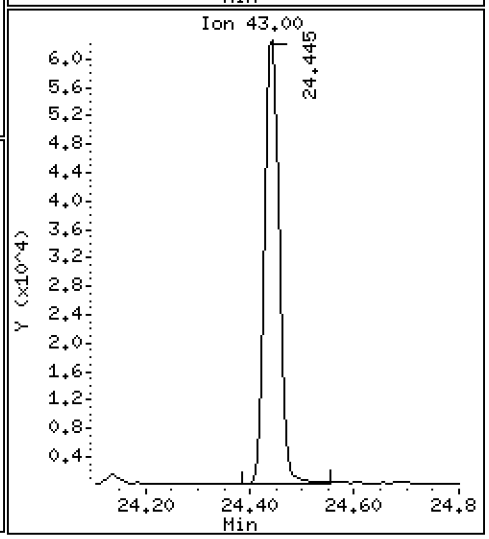












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

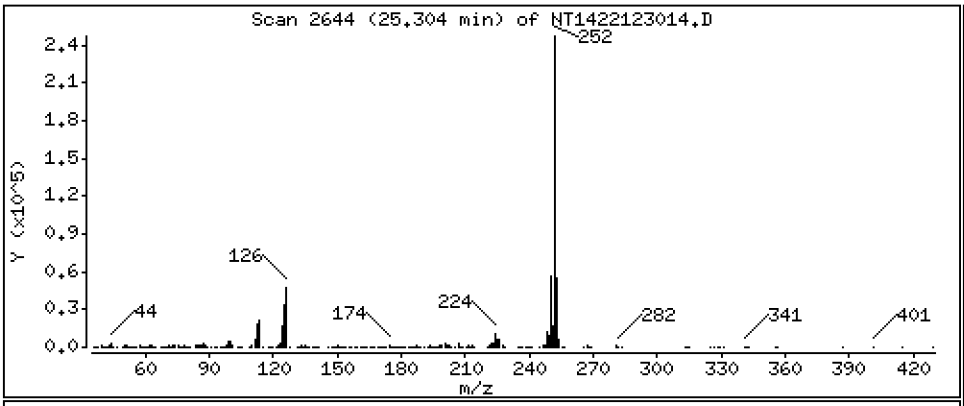
Operator: VTS

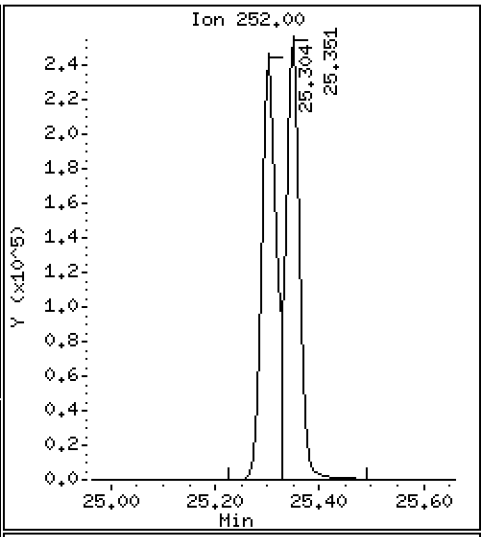
Column phase: ZB-5msi

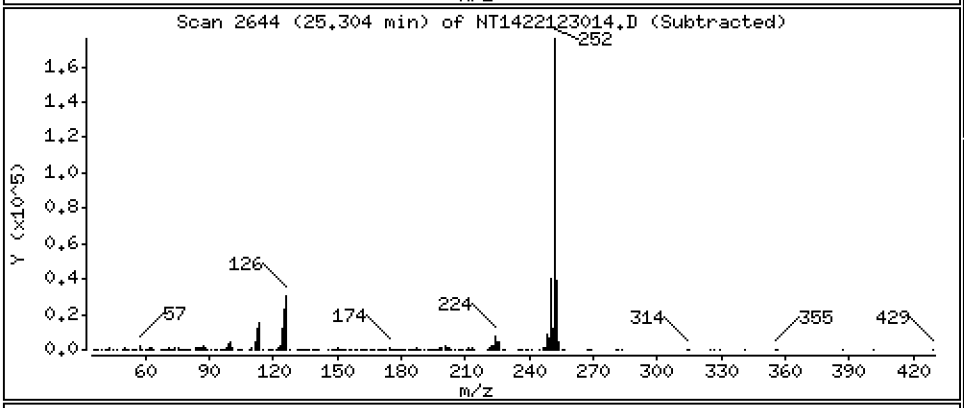
Column diameter: 0.25

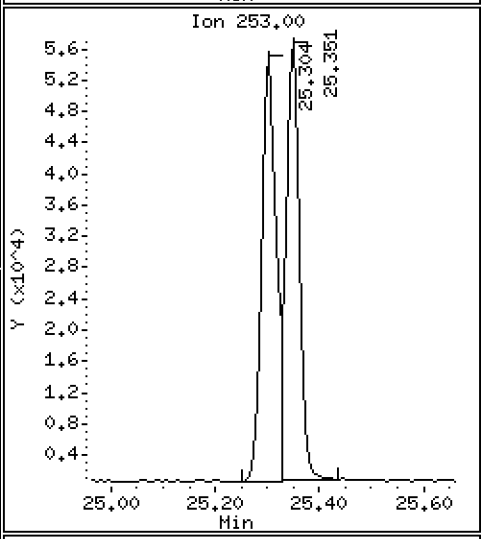
74 Benzo(b)fluoranthene

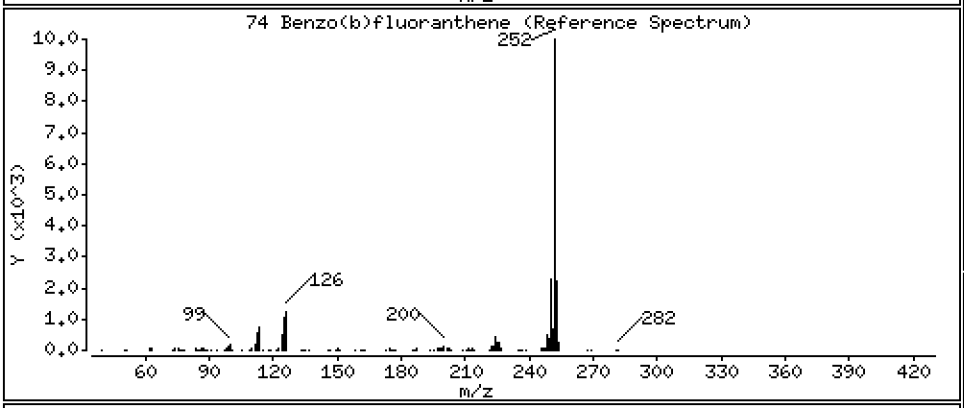
Concentration: 4.684 ug/mL

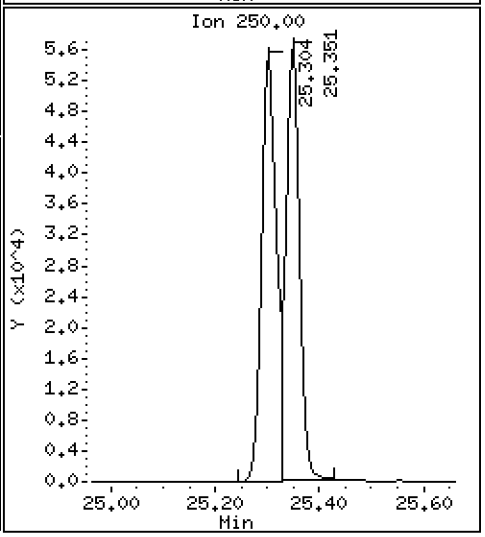


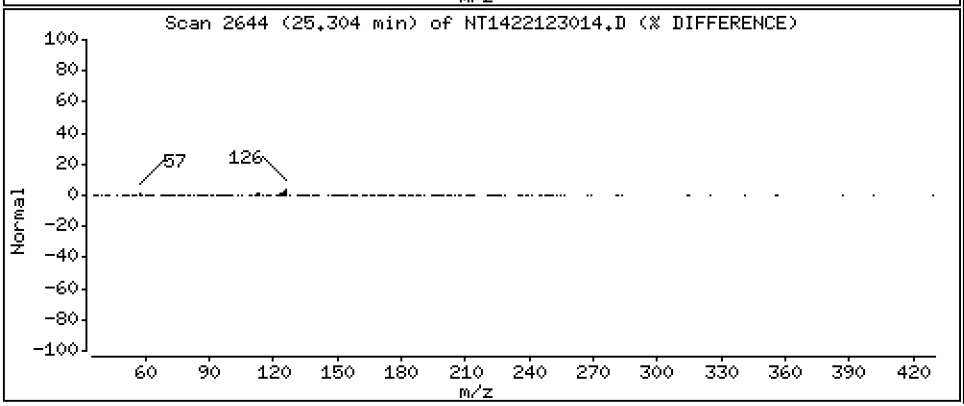












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

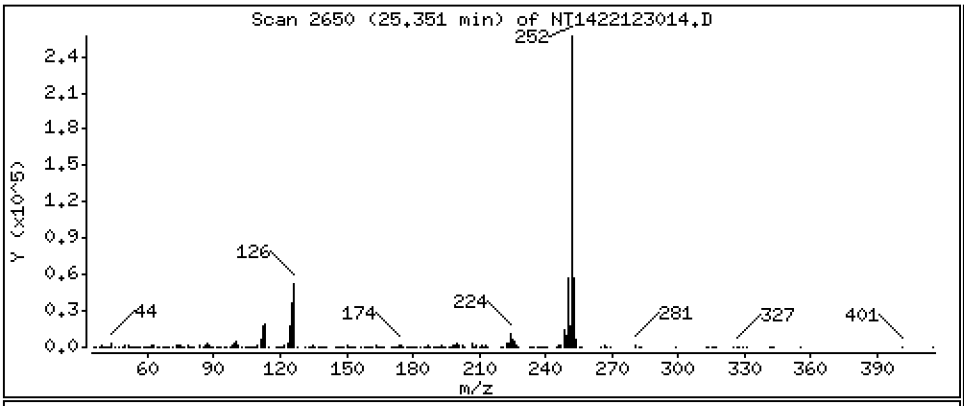
Operator: VTS

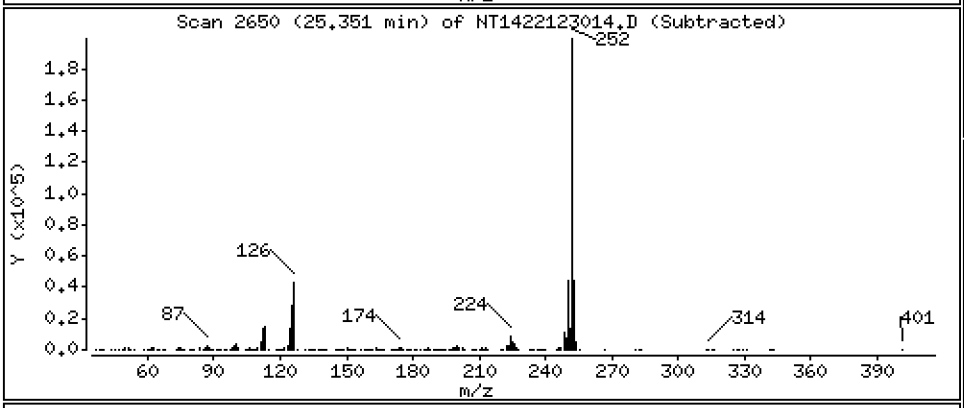
Column phase: ZB-5msi

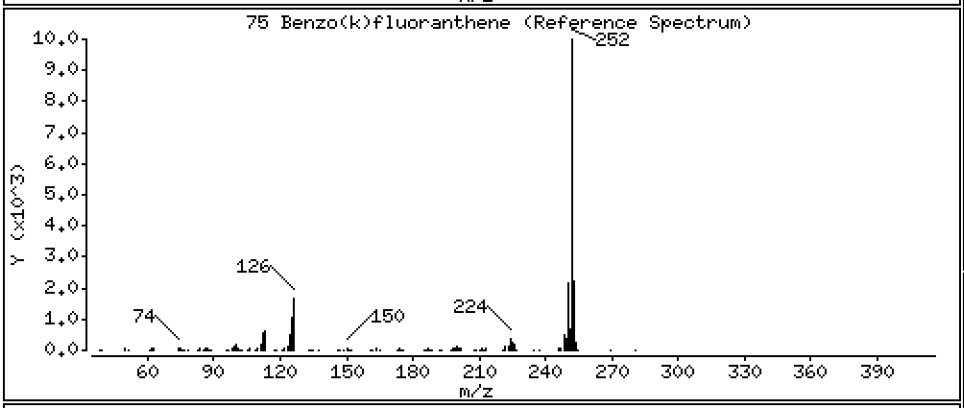
Column diameter: 0.25

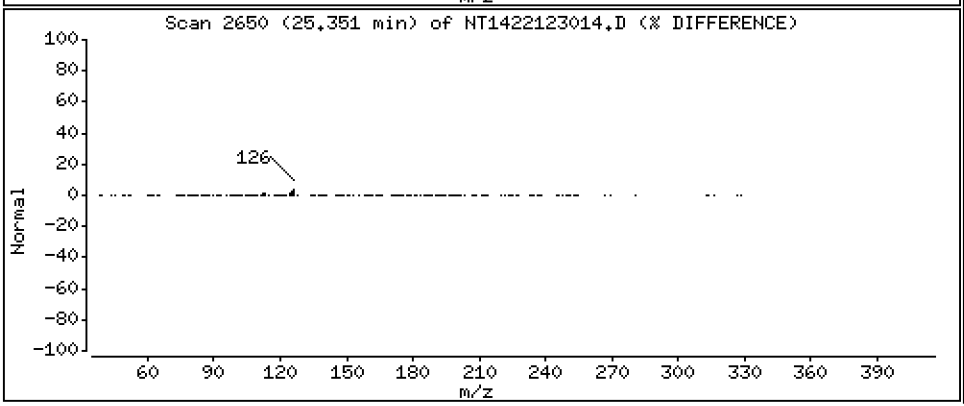
75 Benzo(k)fluoranthene

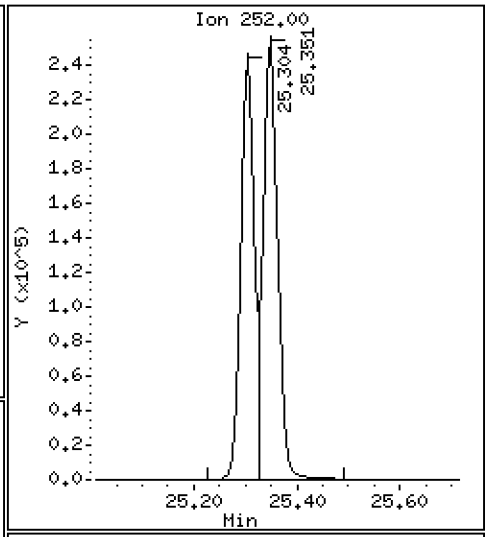
Concentration: 4.733 ug/mL

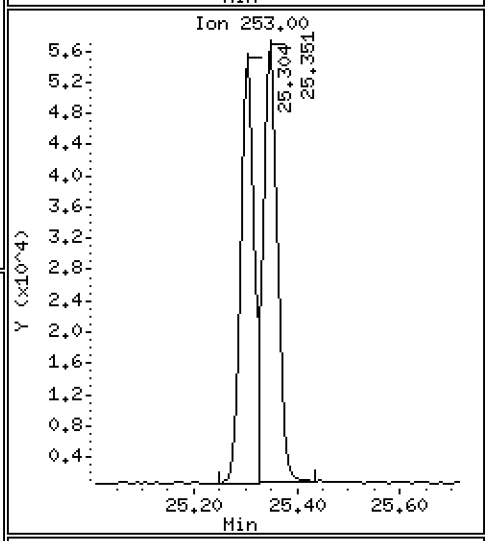


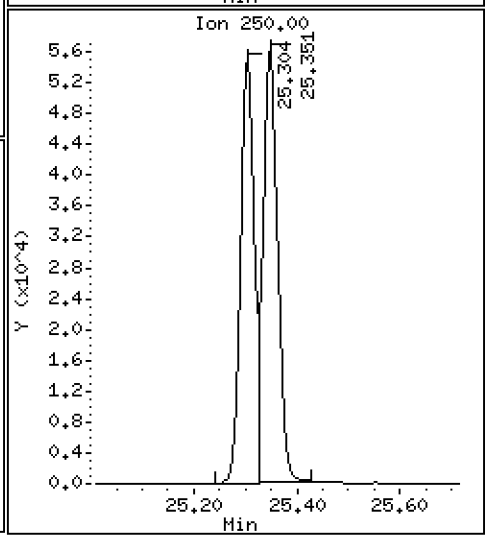












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

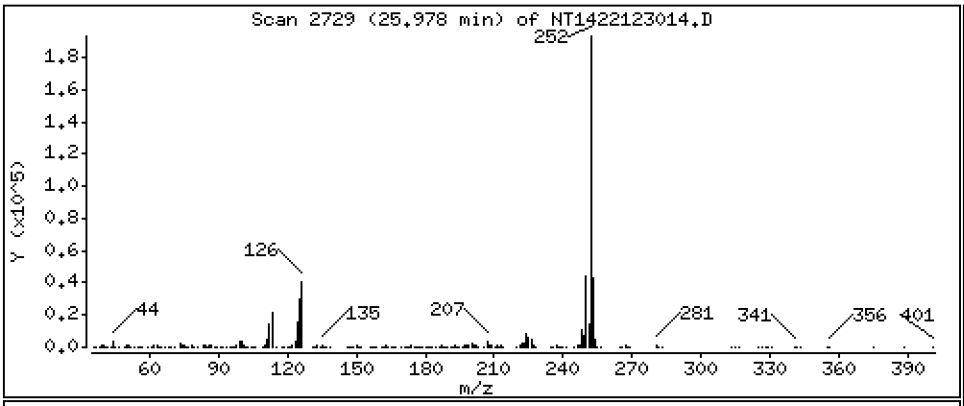
Operator: VTS

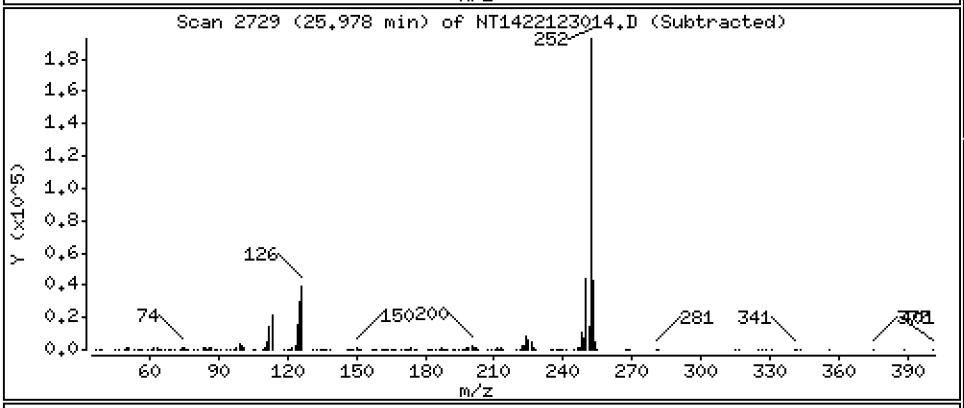
Column phase: ZB-5msi

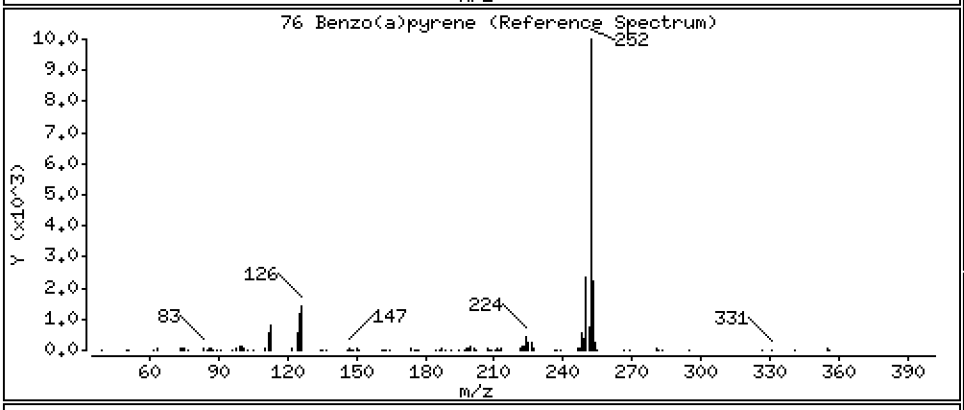
Column diameter: 0.25

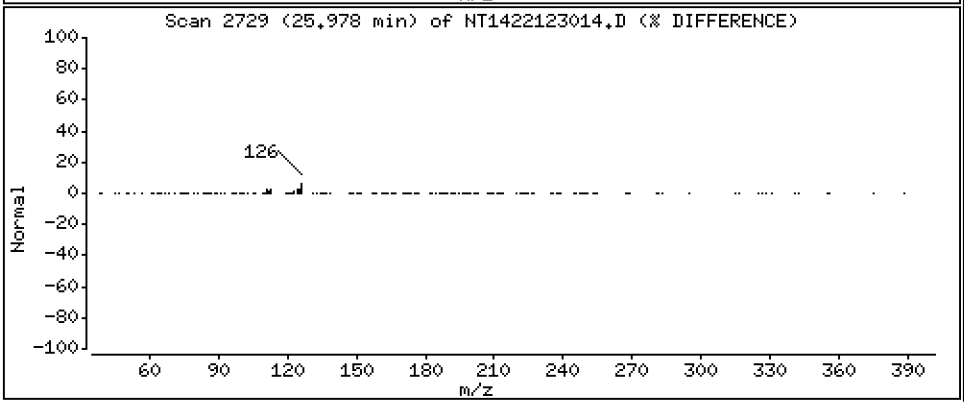
76 Benzo(a)pyrene

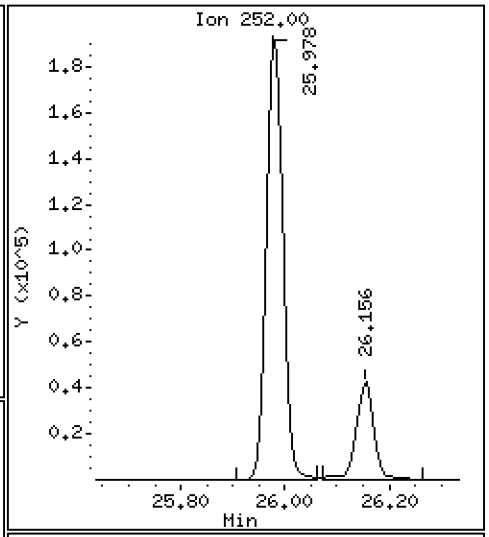
Concentration: 4.820 ug/mL

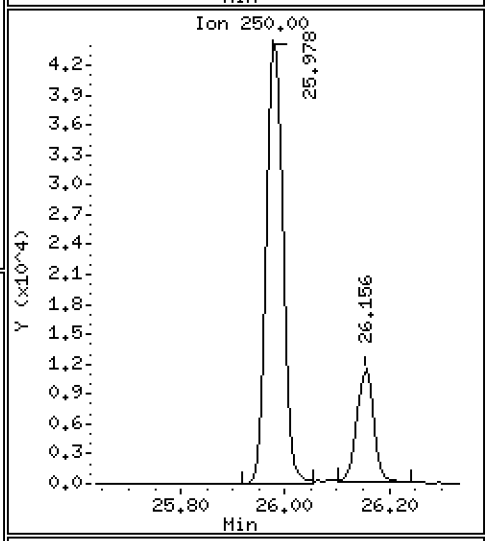


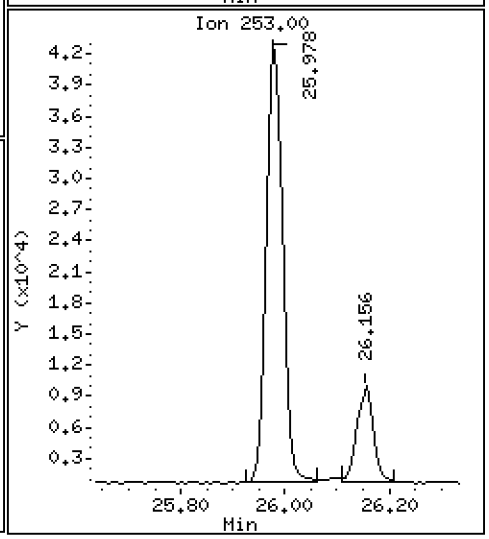












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

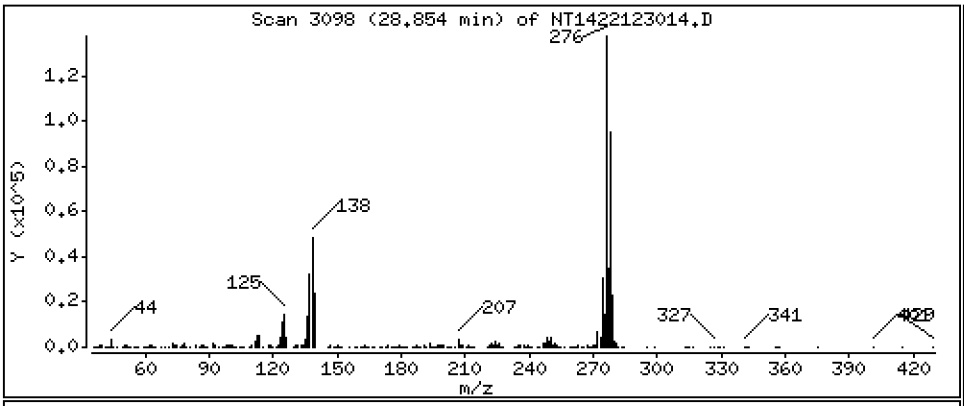
Operator: VTS

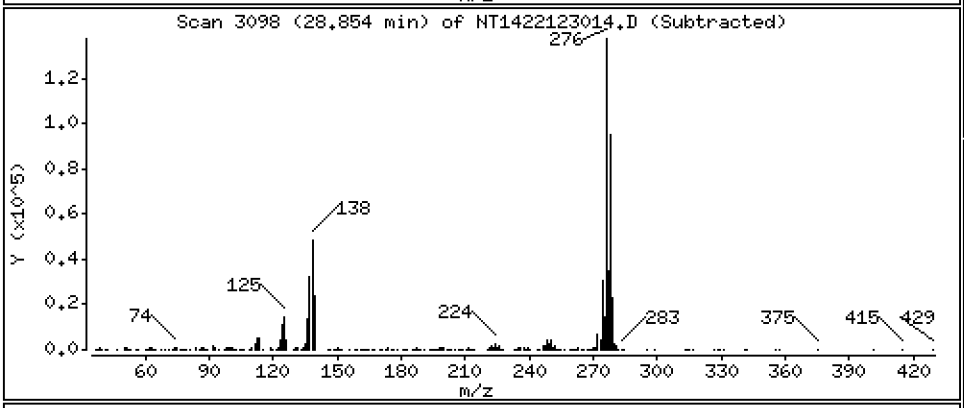
Column phase: ZB-5msi

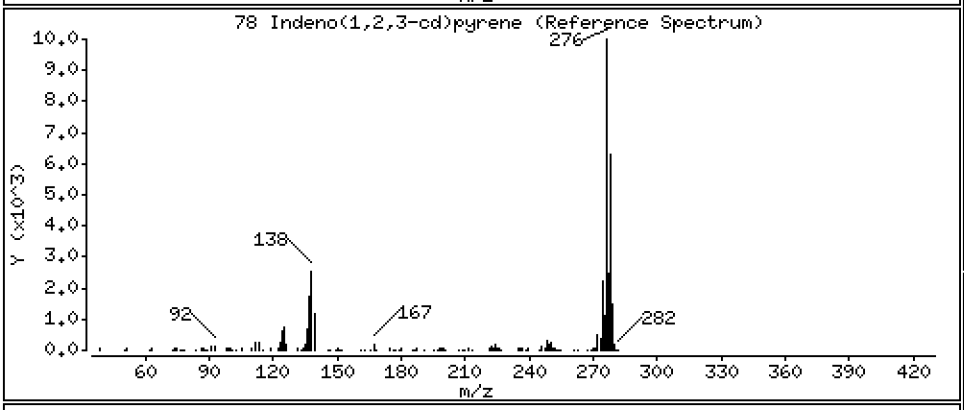
Column diameter: 0.25

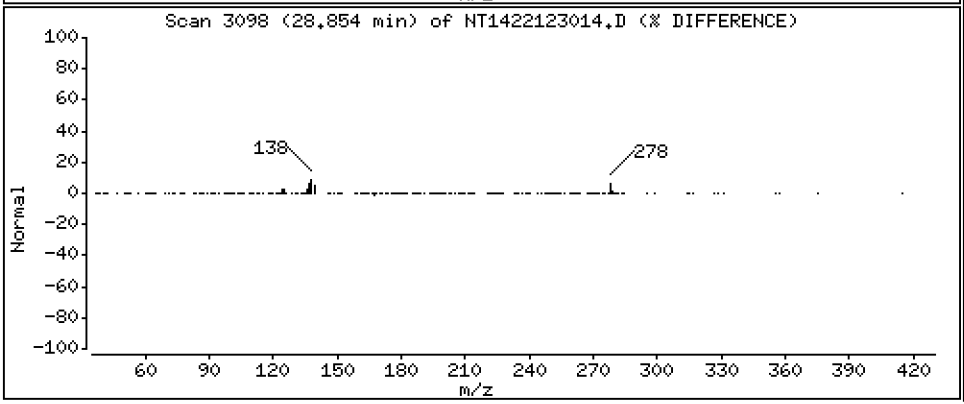
78 Indeno(1,2,3-cd)pyrene

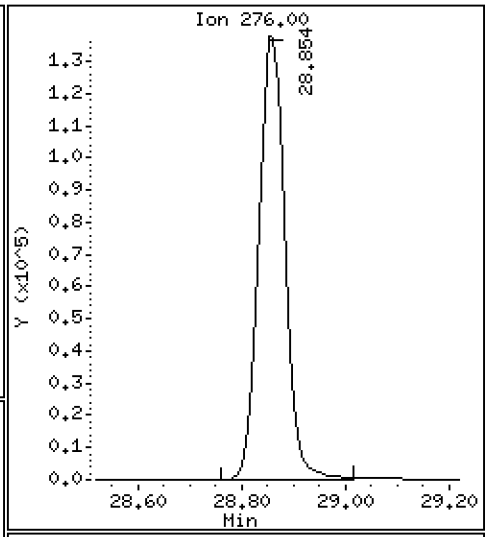
Concentration: 4.935 ug/mL

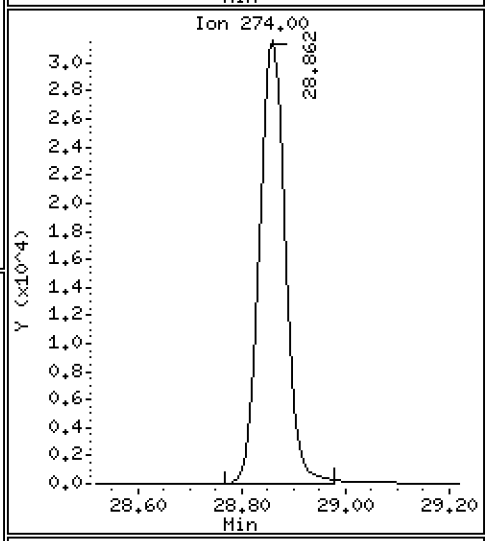


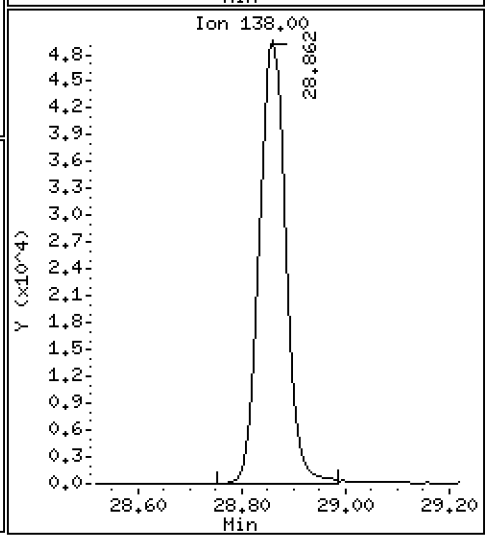












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

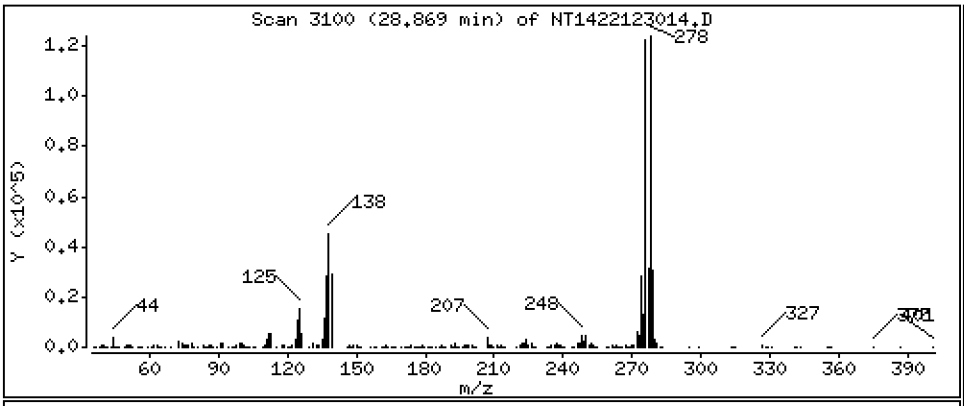
Operator: VTS

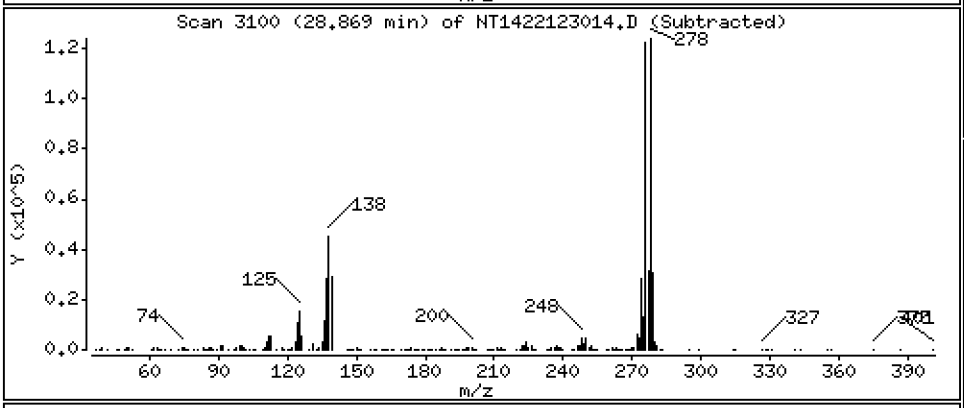
Column phase: ZB-5msi

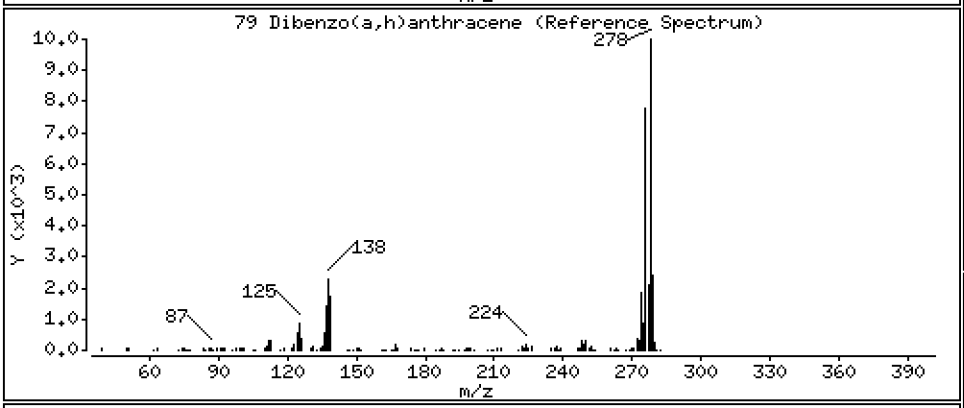
Column diameter: 0.25

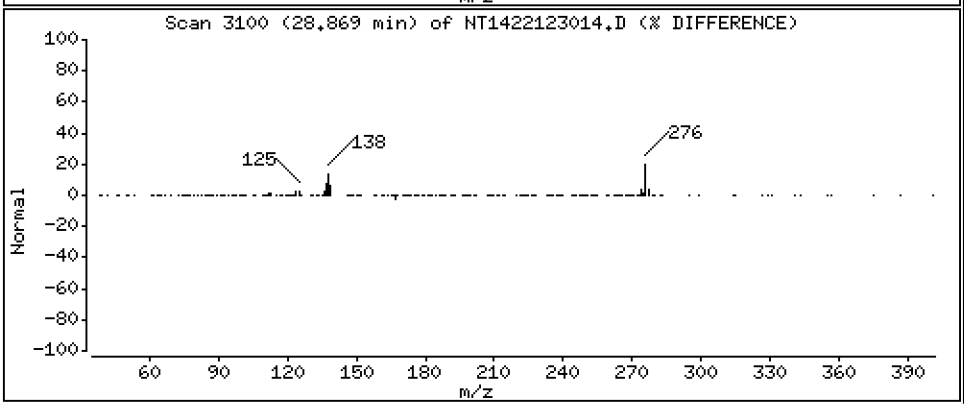
79 Dibenzo(a,h)anthracene

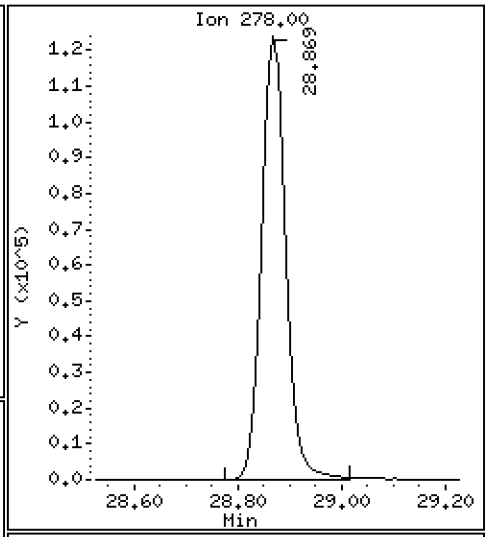
Concentration: 4.786 ug/mL

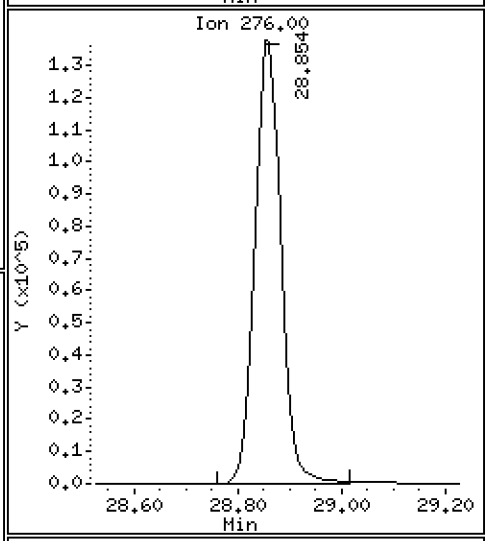


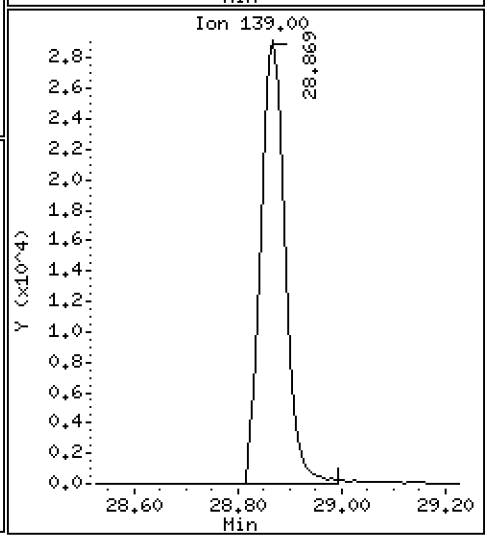












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

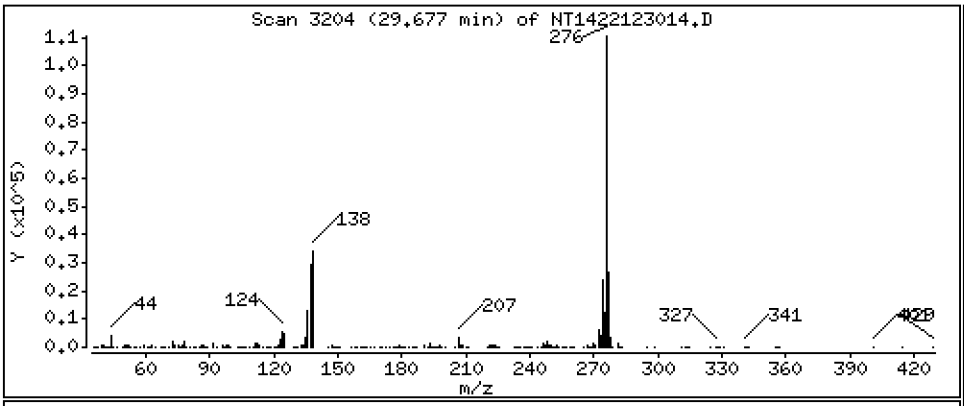
Operator: VTS

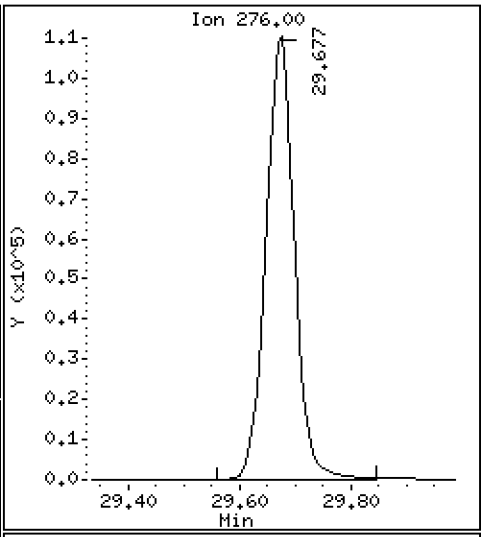
Column phase: ZB-5msi

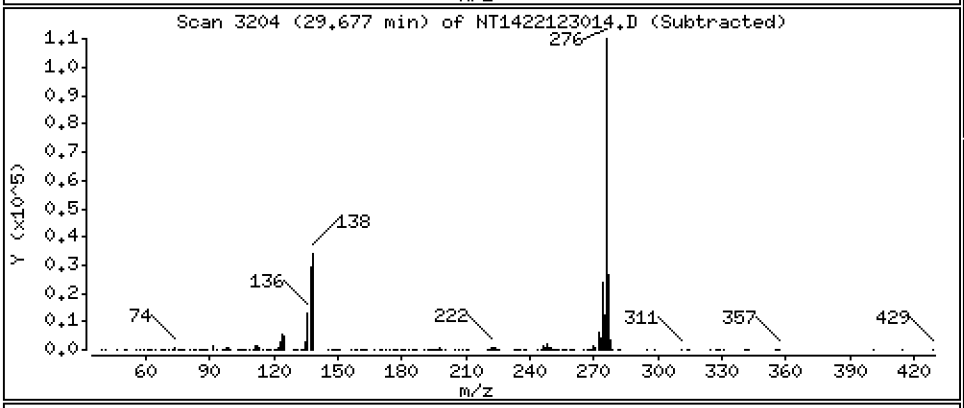
Column diameter: 0.25

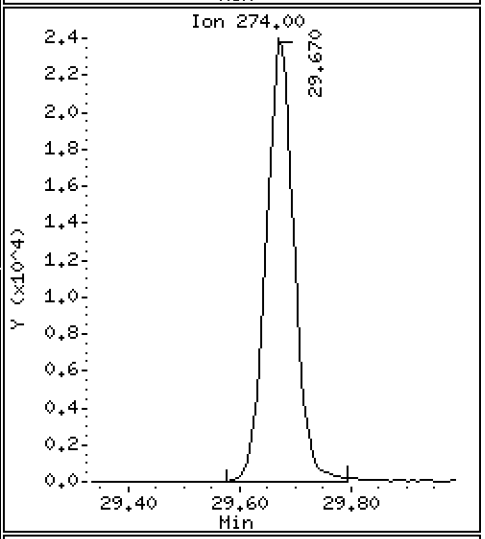
80 Benzo(g,h,i)perylene

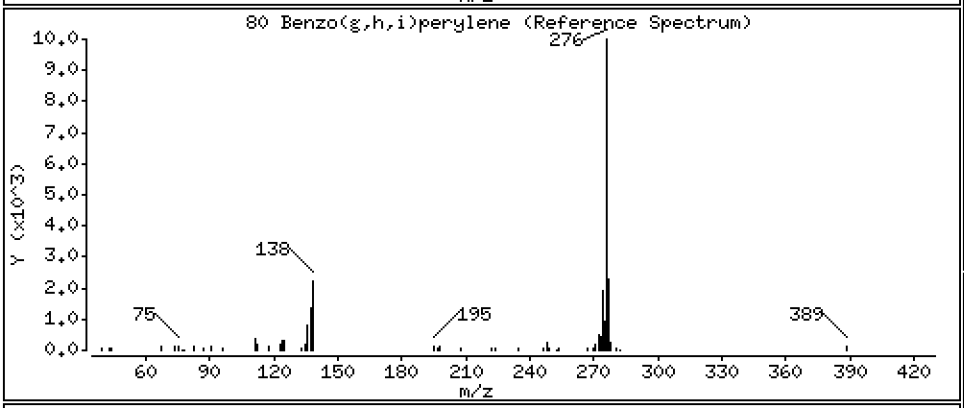
Concentration: 4.899 ug/mL

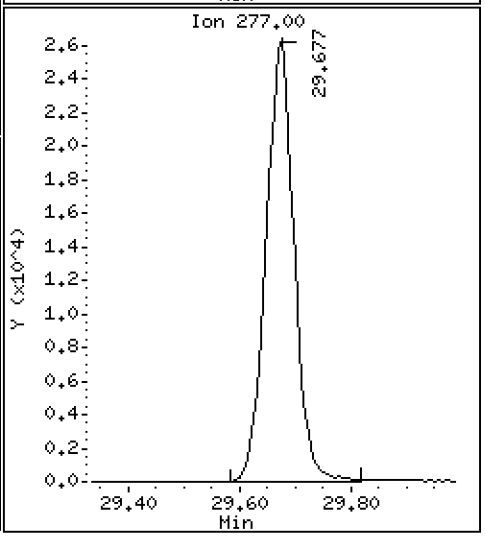


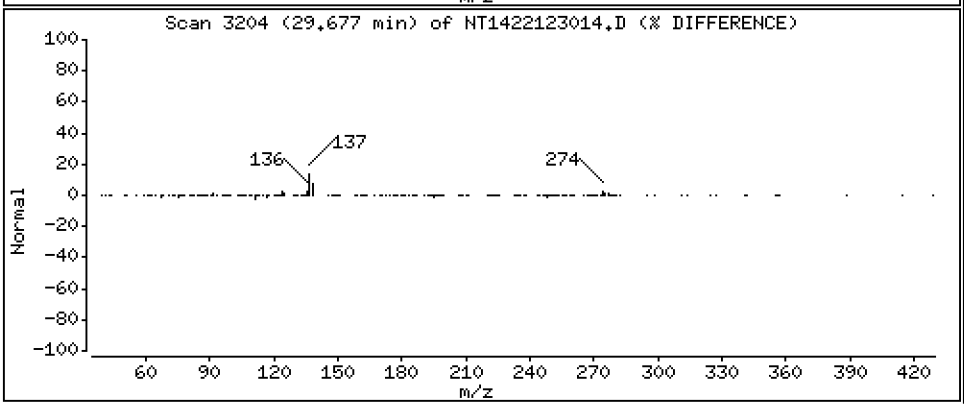












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

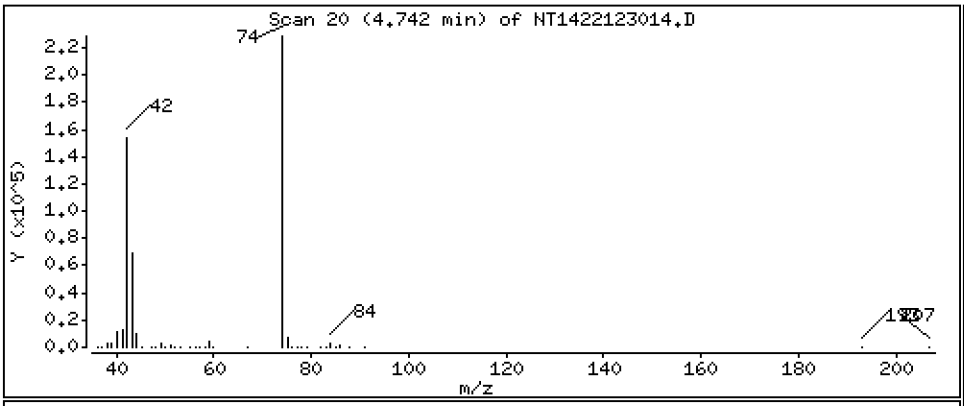
Operator: VTS

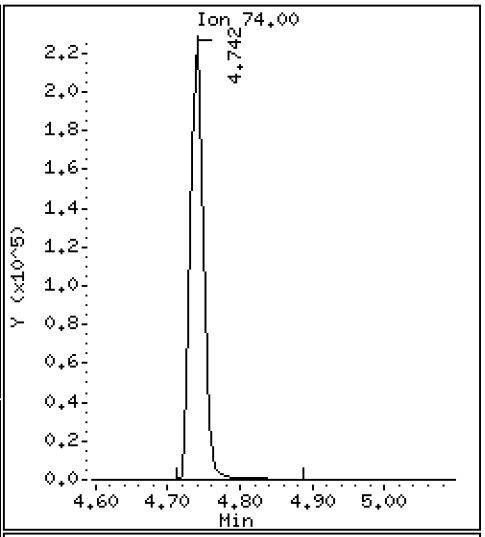
Column phase: ZB-5msi

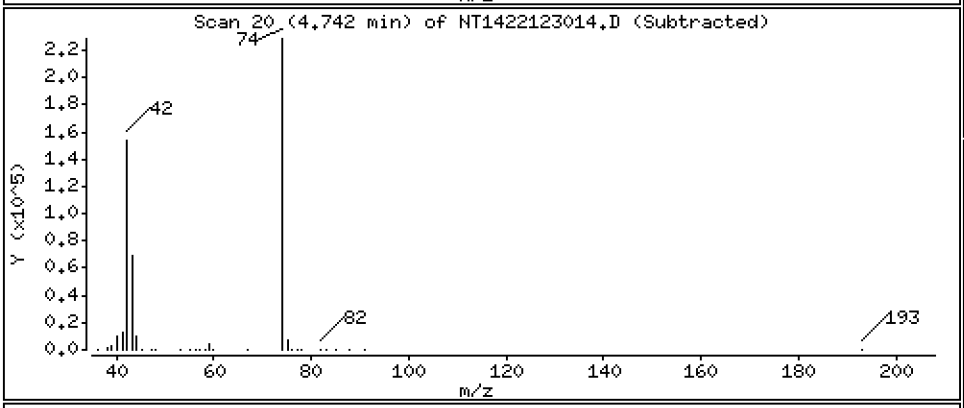
Column diameter: 0.25

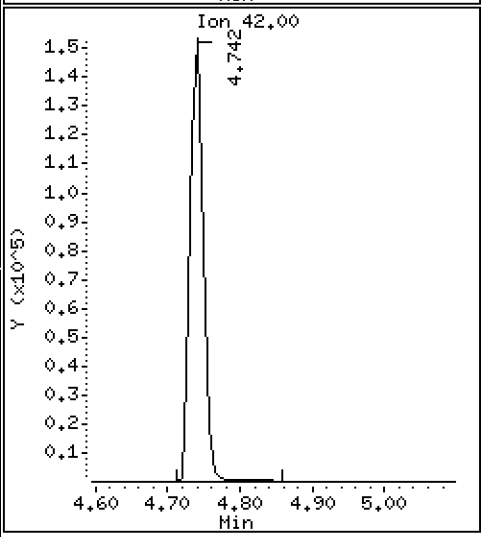
90 N-Nitrosodimethylamine

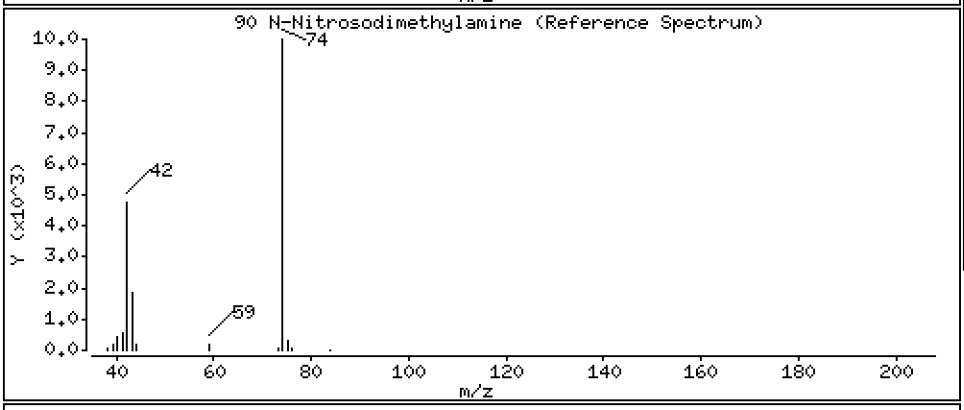
Concentration: 9.944 ug/mL

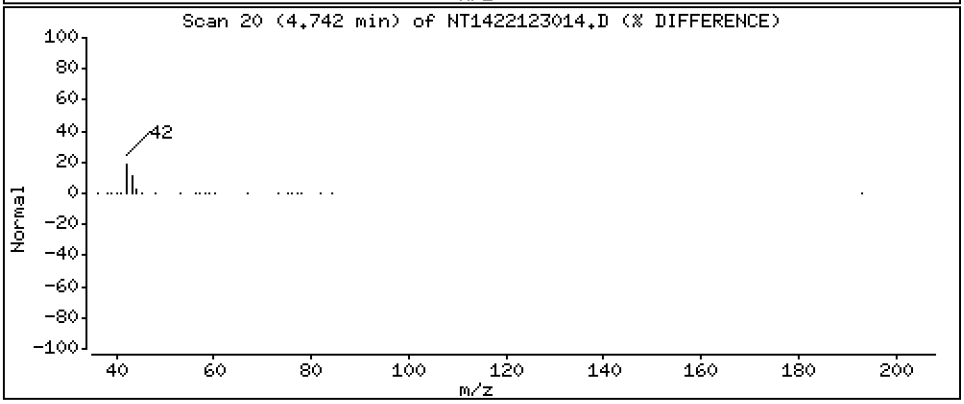












Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123014.D

Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

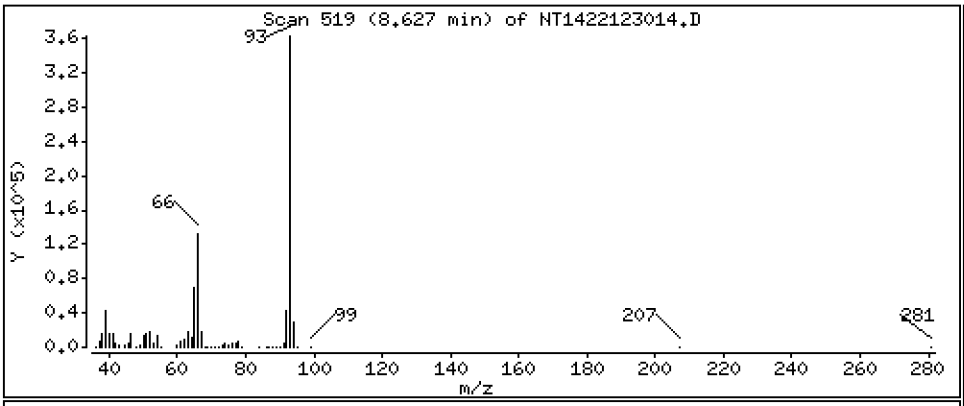
Operator: VTS

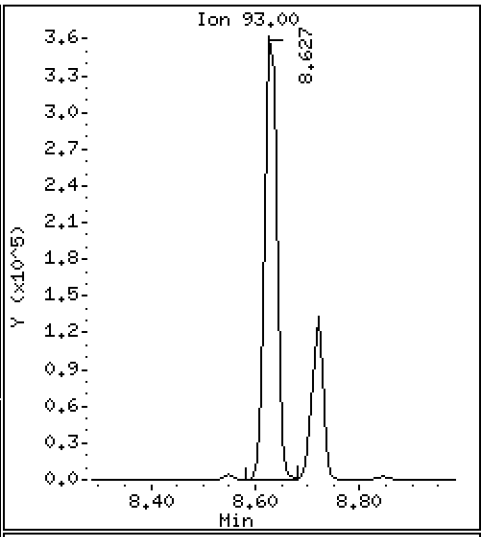
Column phase: ZB-5msi

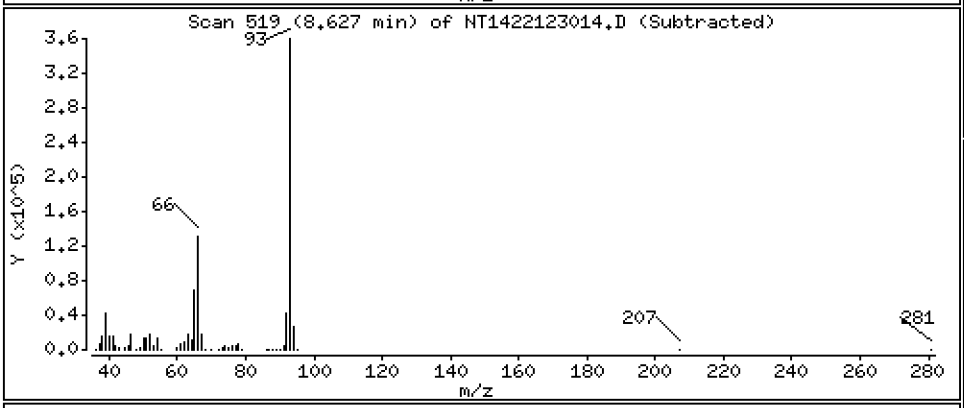
Column diameter: 0.25

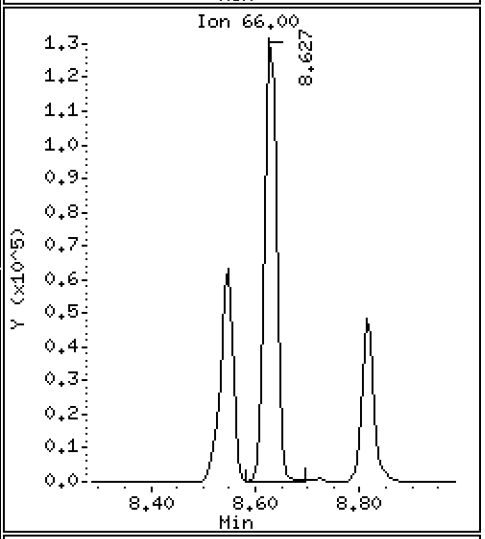
91 Aniline

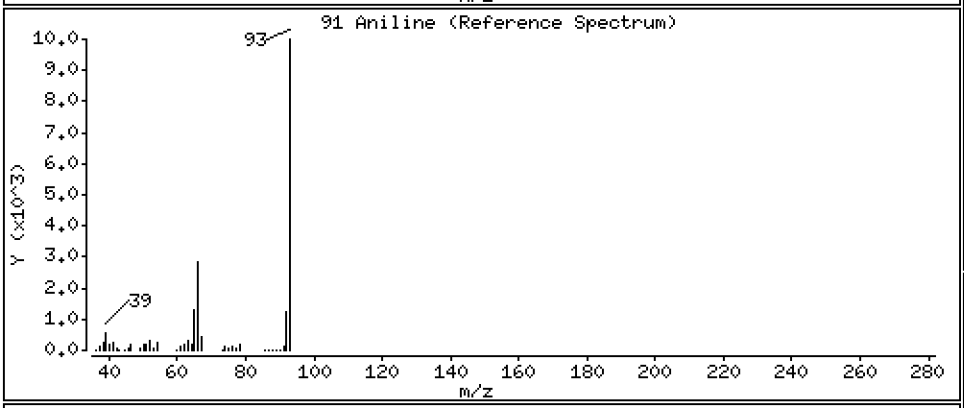
Concentration: 9.711 ug/mL

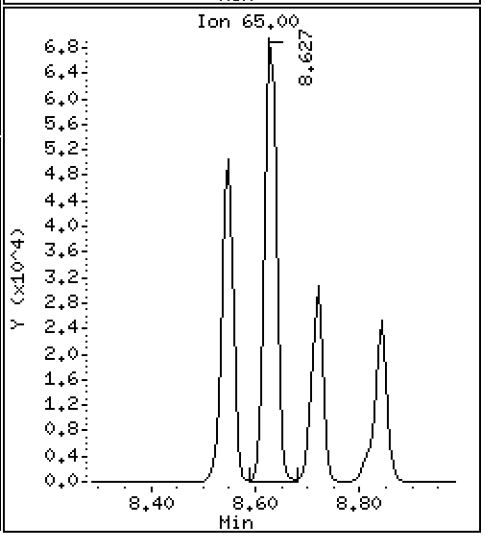


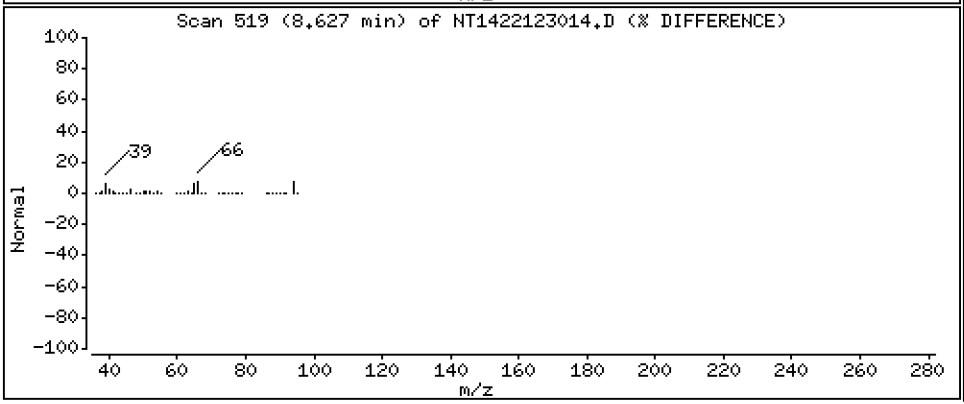












Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123014.D

Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

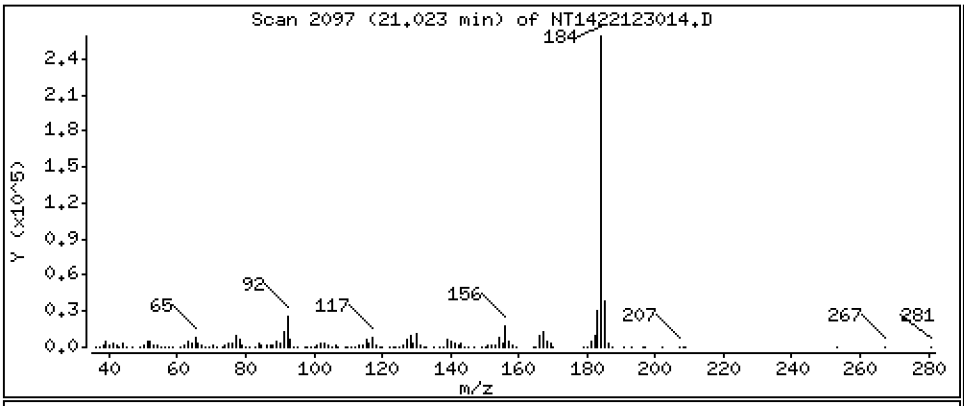
Operator: VTS

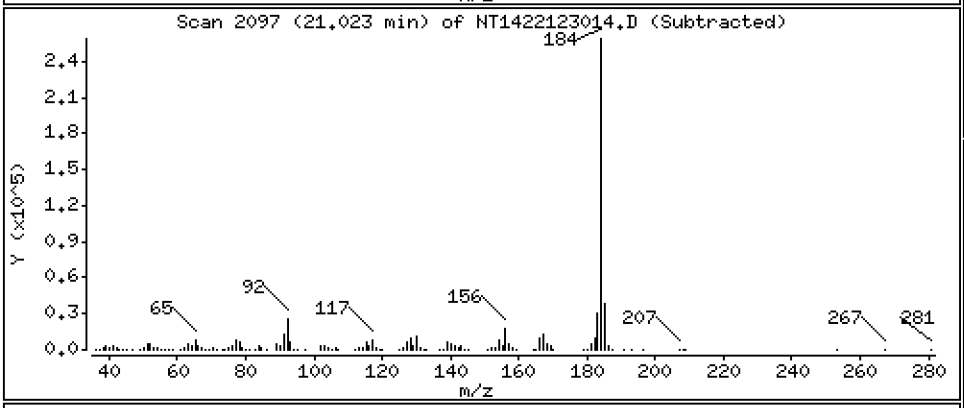
Column phase: ZB-5msi

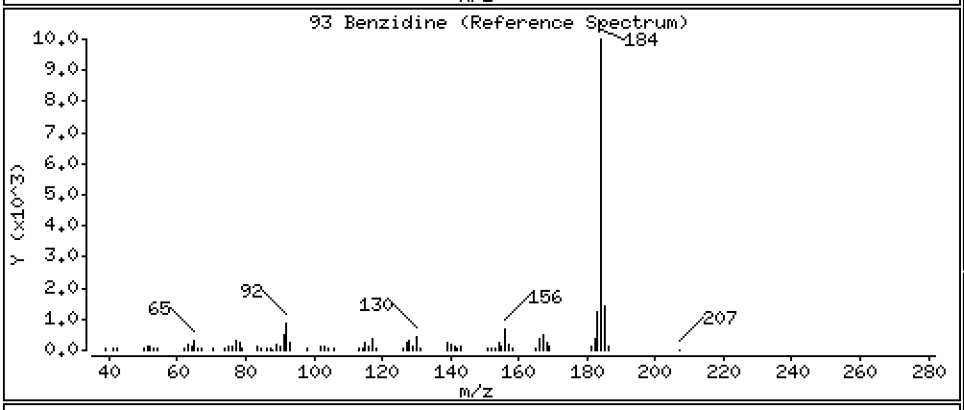
Column diameter: 0.25

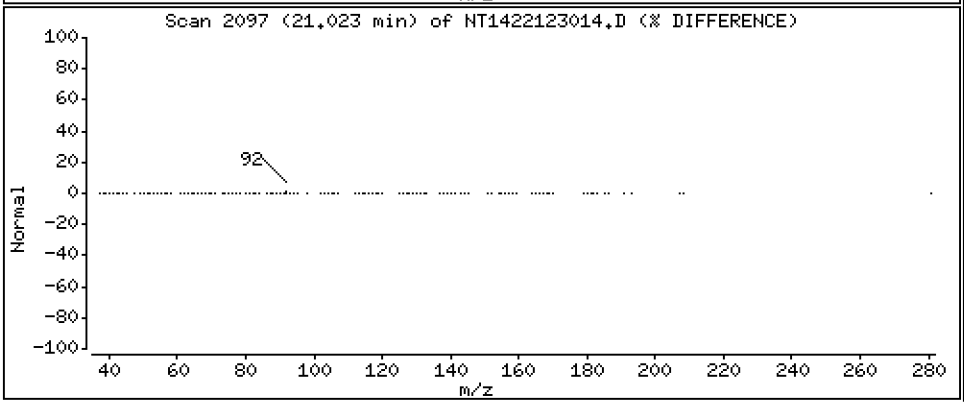
93 Benzidine

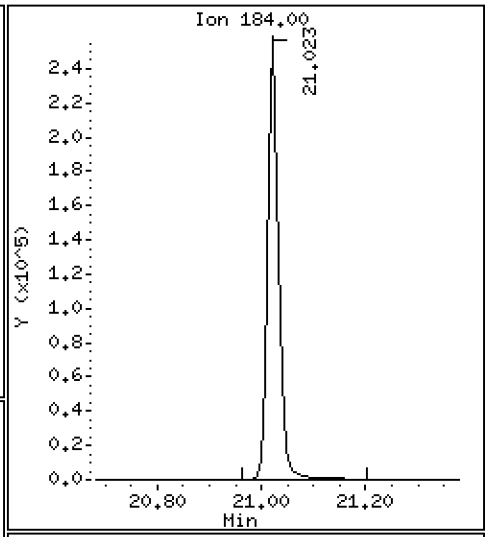
Concentration: 8.319 ug/mL

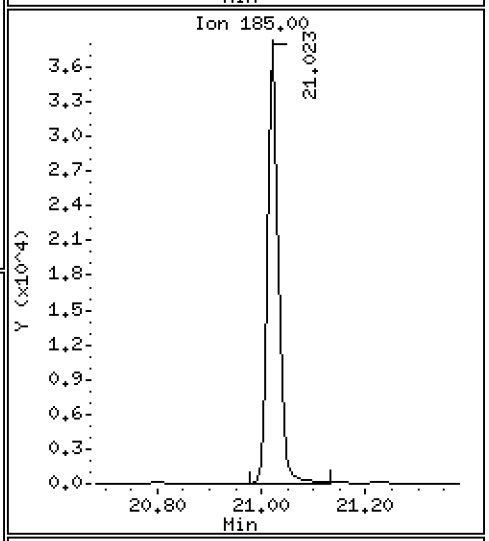


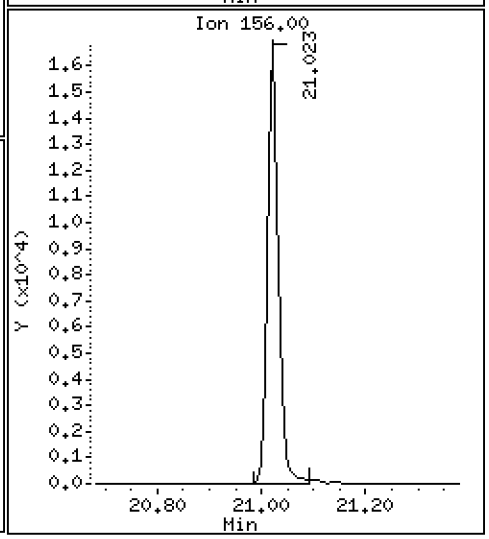












Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123014.D

Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

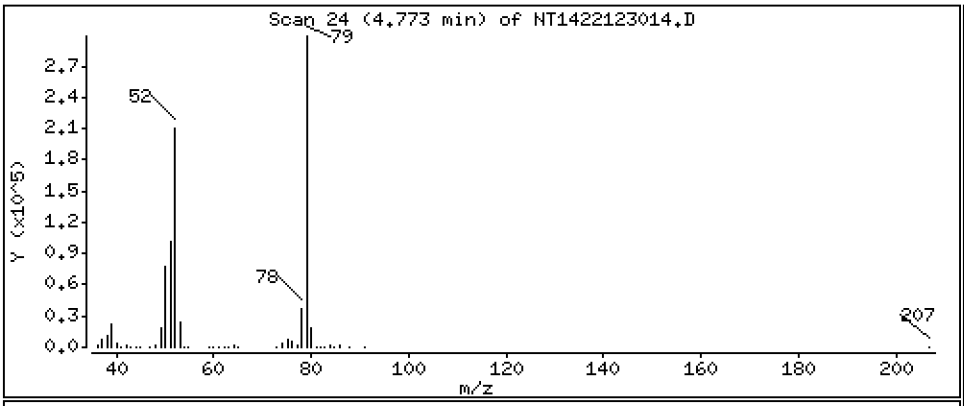
Operator: VTS

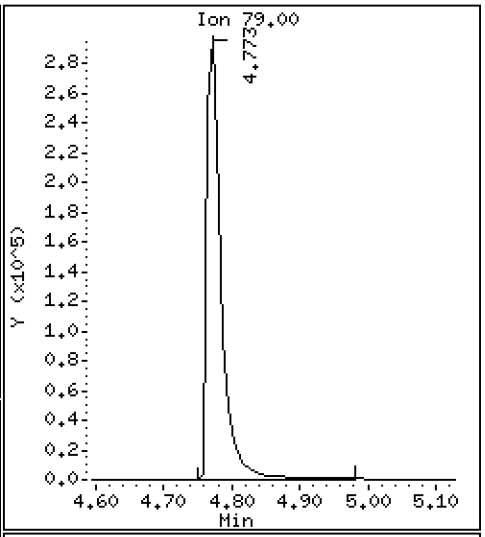
Column phase: ZB-5msi

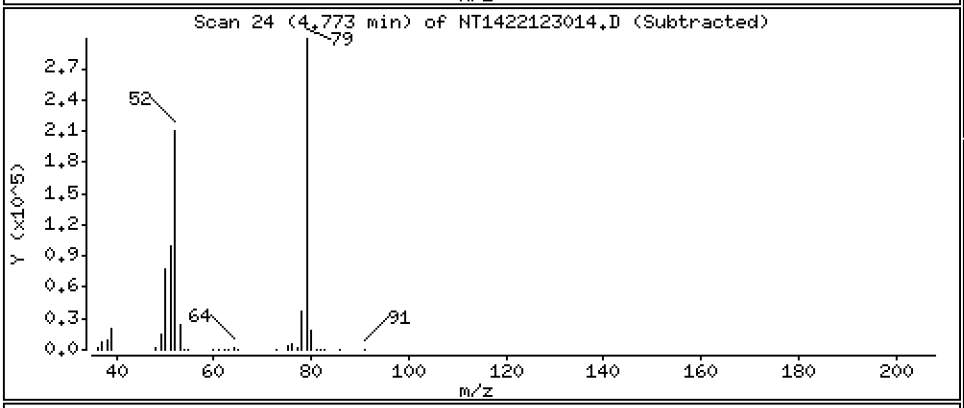
Column diameter: 0.25

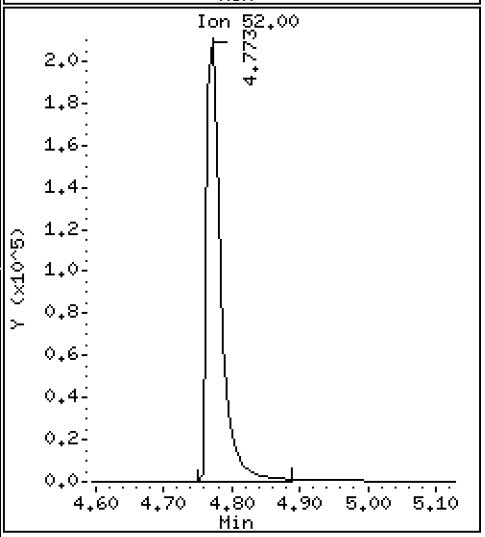
103 Pyridine

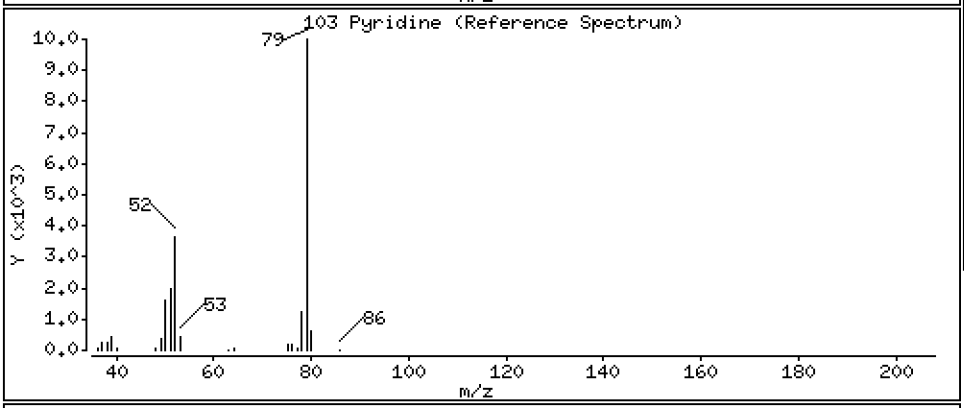
Concentration: 4.949 ug/mL

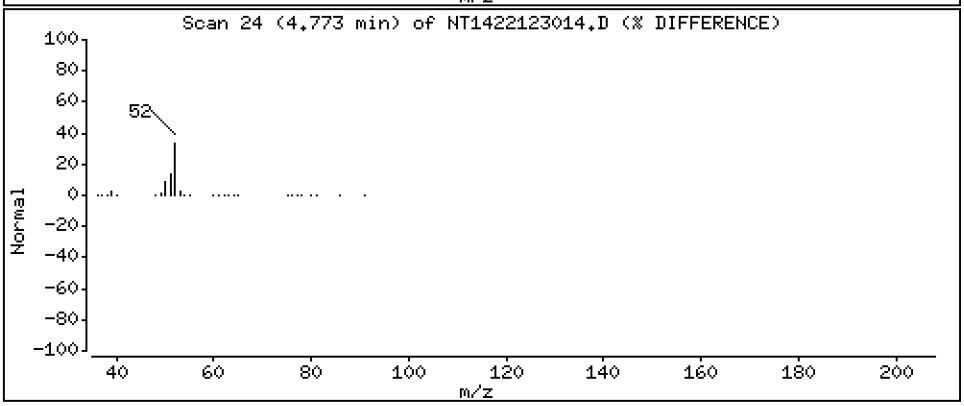












Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123014.D

Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

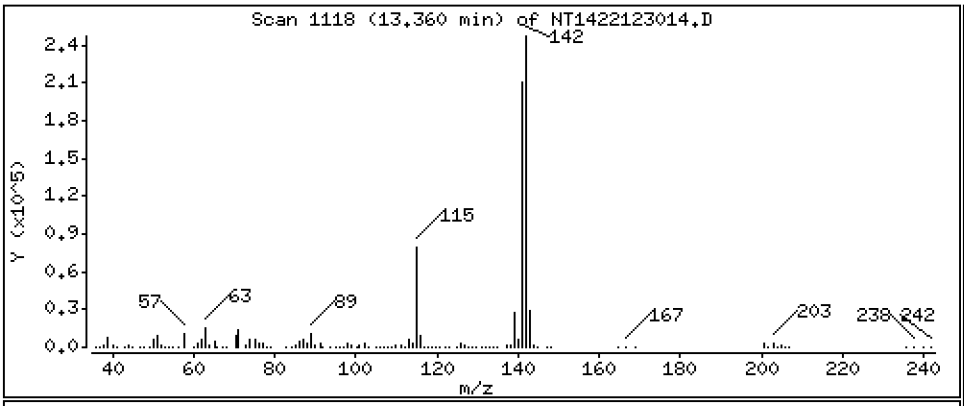
Operator: VTS

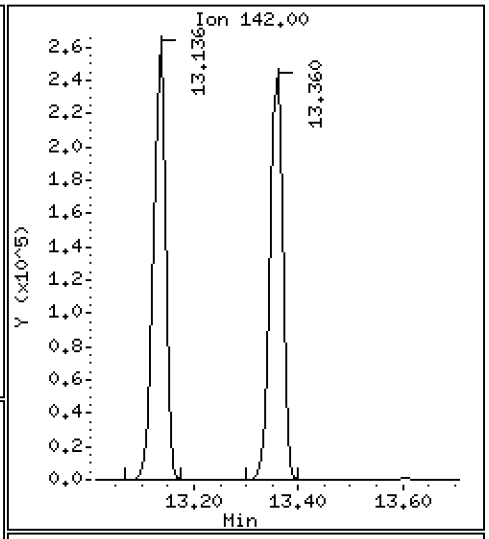
Column phase: ZB-5msi

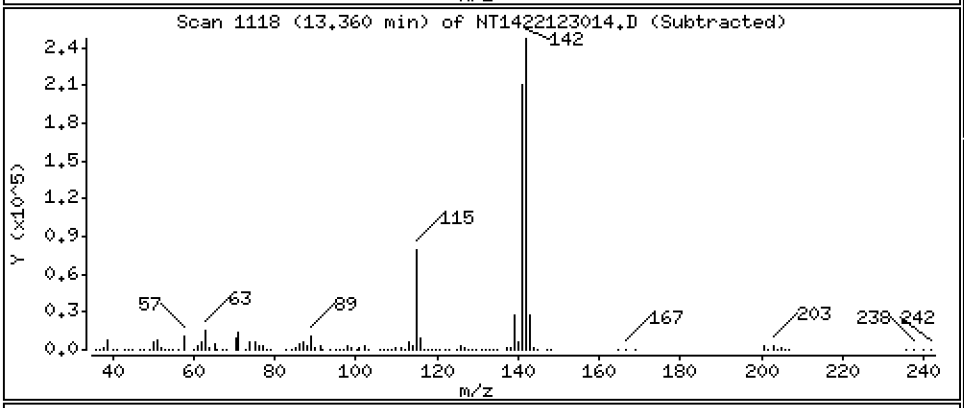
Column diameter: 0.25

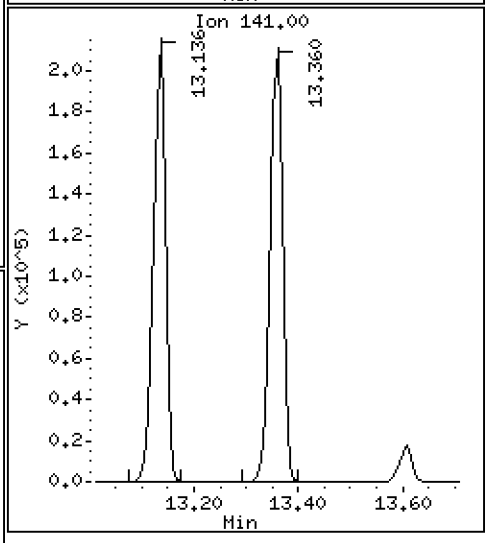
105 1-methylnaphthalene

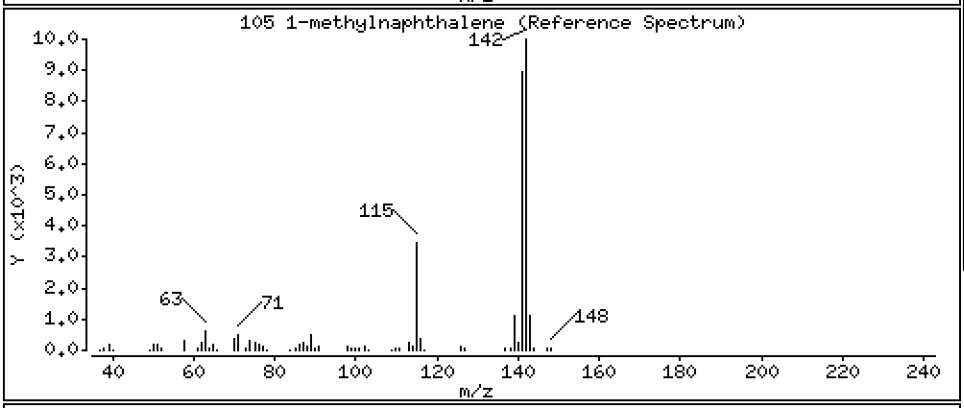
Concentration: 4.706 ug/mL

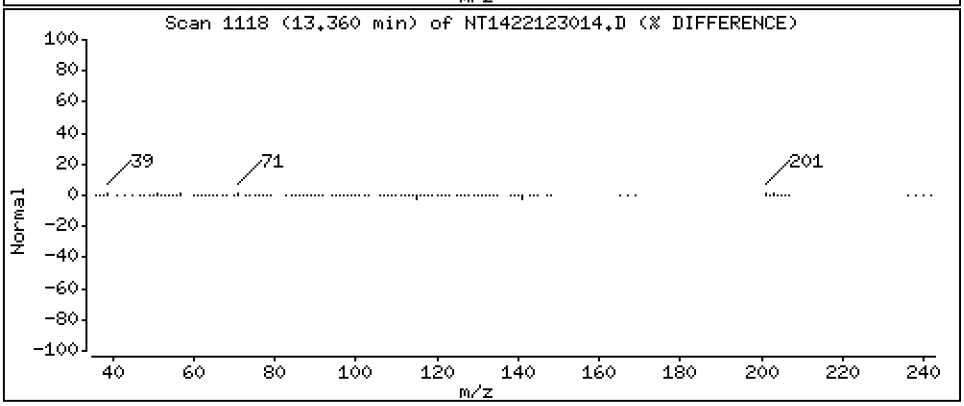












Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123014.D

Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

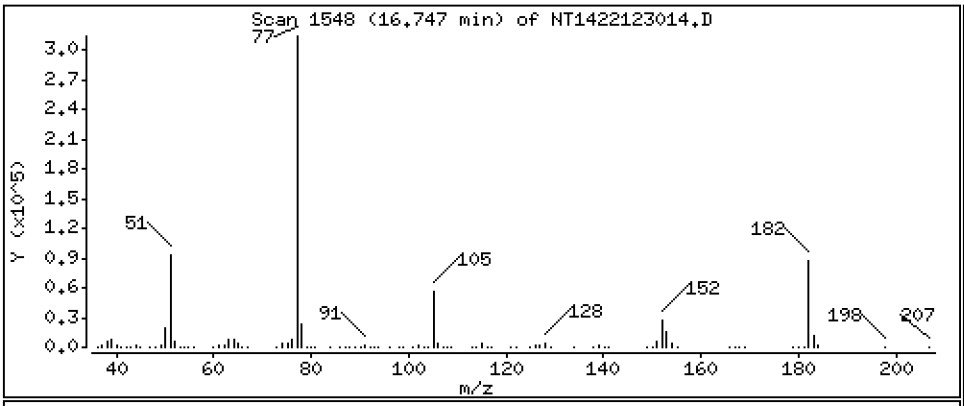
Operator: VTS

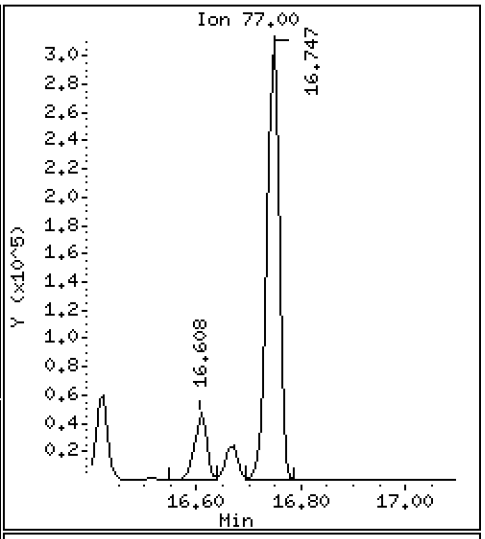
Column phase: ZB-5msi

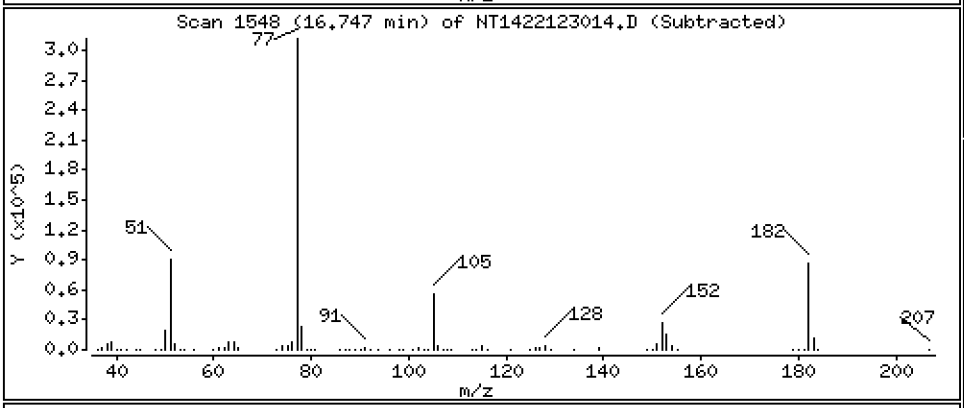
Column diameter: 0.25

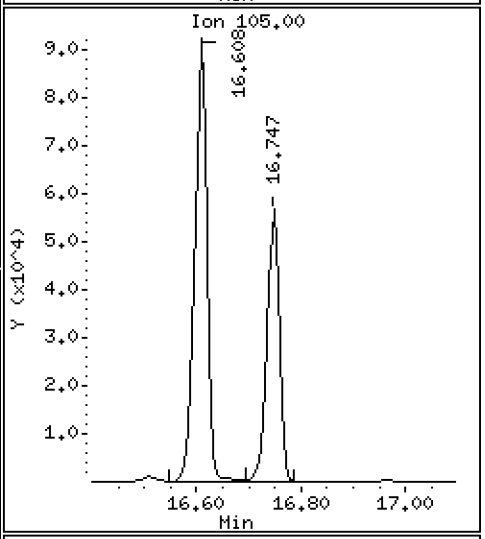
111 Azobenzene (1,2-DP-Hydrazine)

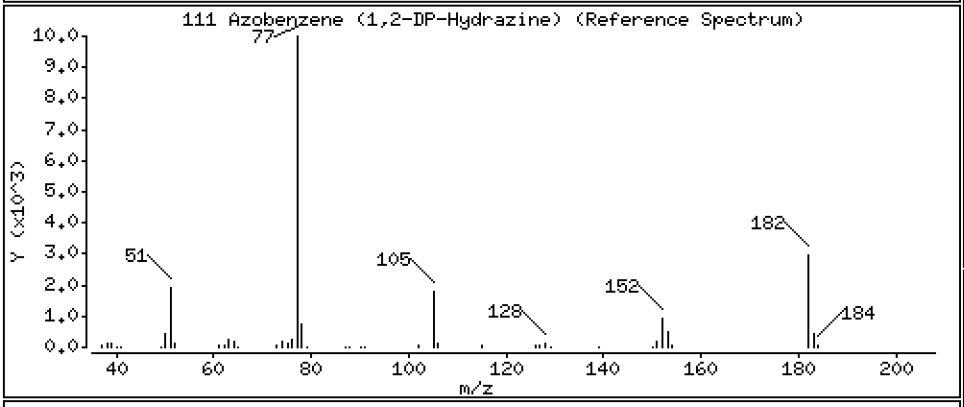
Concentration: 4.948 ug/mL

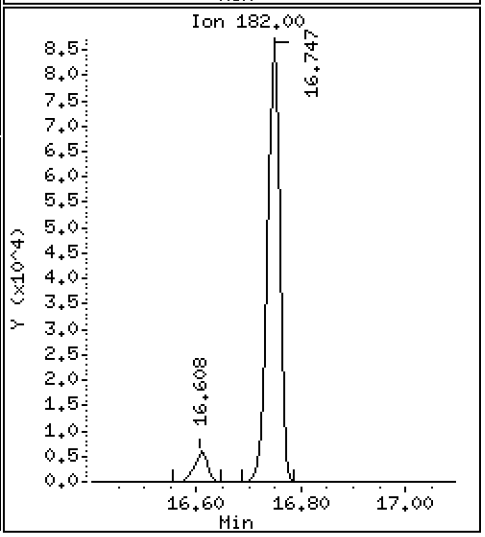


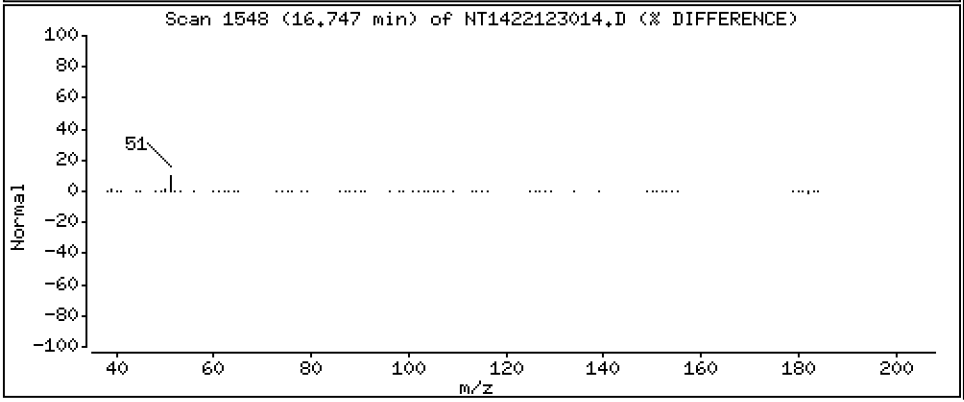












Date : 30-DEC-2022 15:53

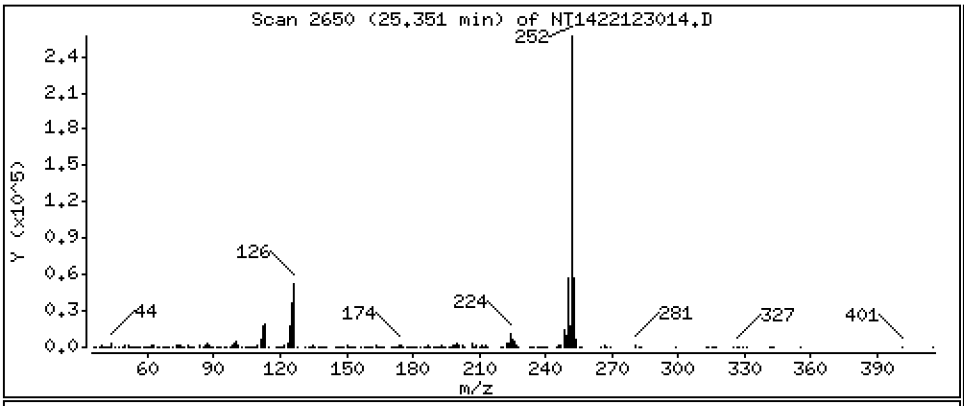
Client ID: Instrument: nt14.i

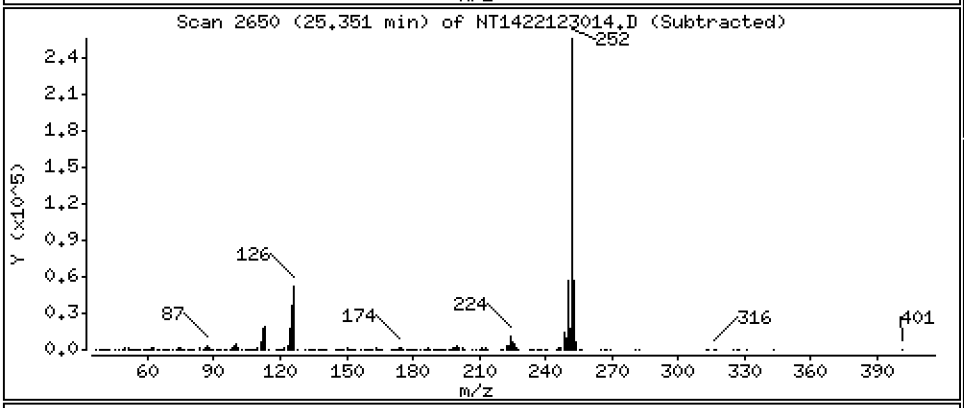
Sample Info: SKL0355-ICV2

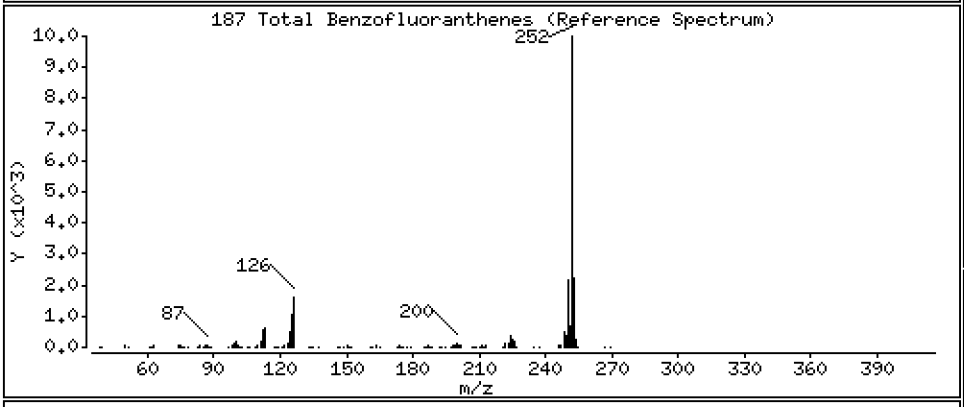
Operator: VTS

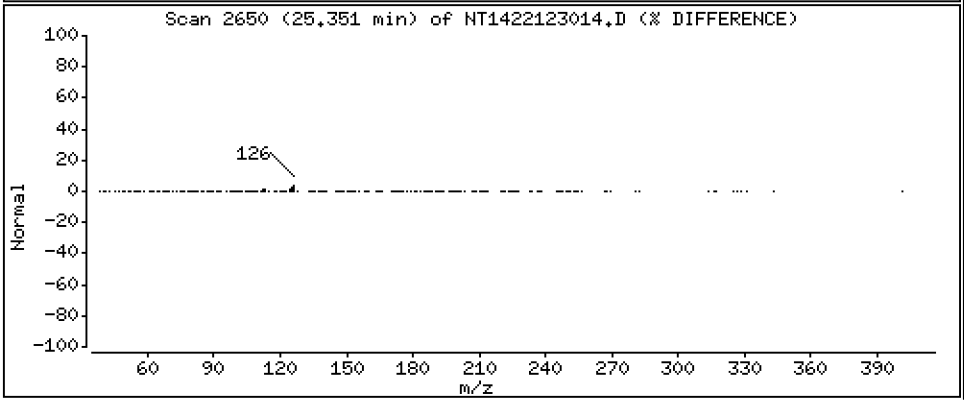
Column phase: ZB-5msi Column diameter: 0.25

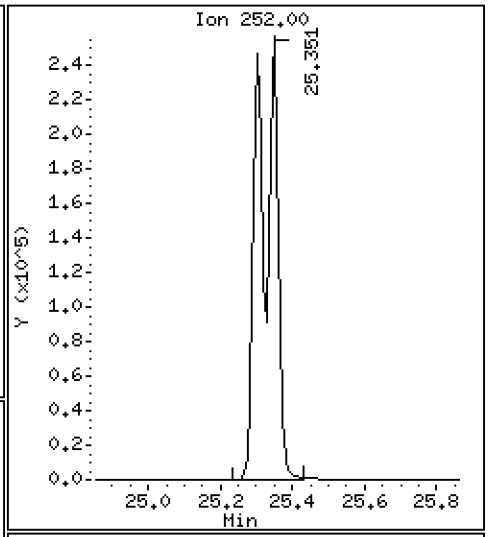
187 Total Benzofluoranthenes Concentration: 9.393 ug/mL

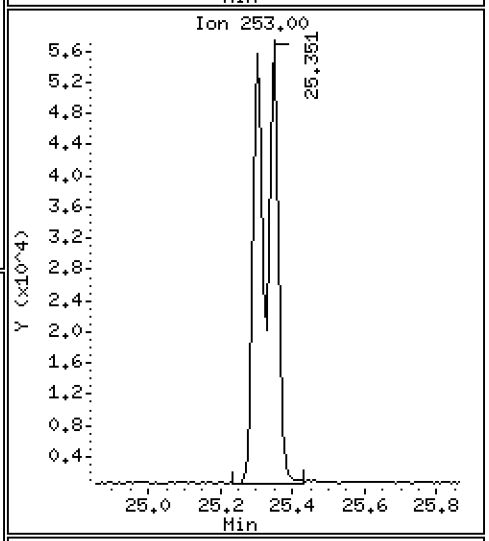


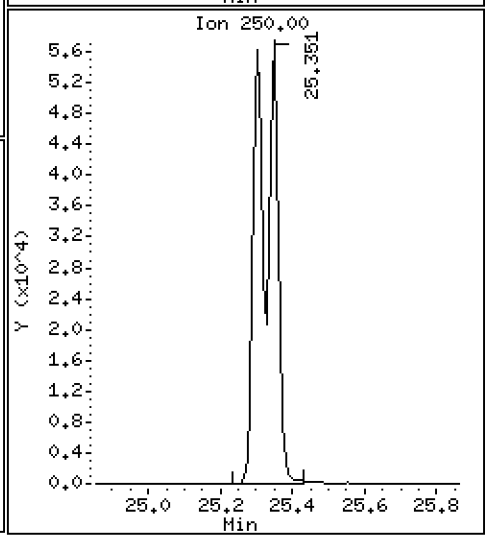












Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123014.D

Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

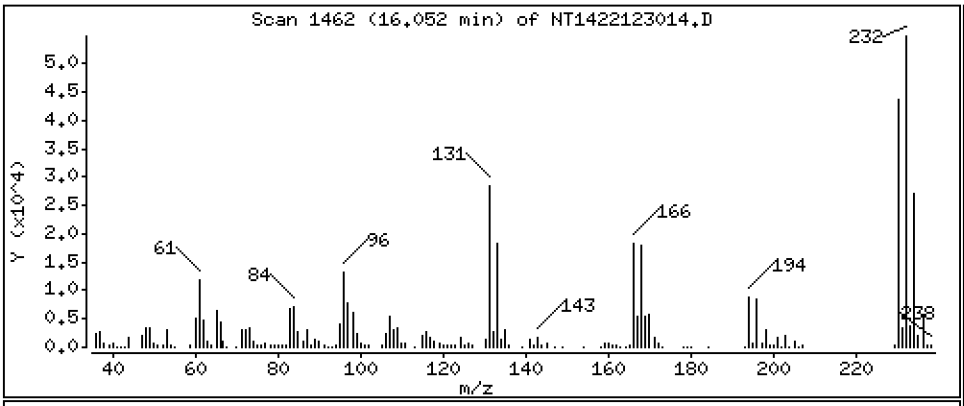
Operator: VTS

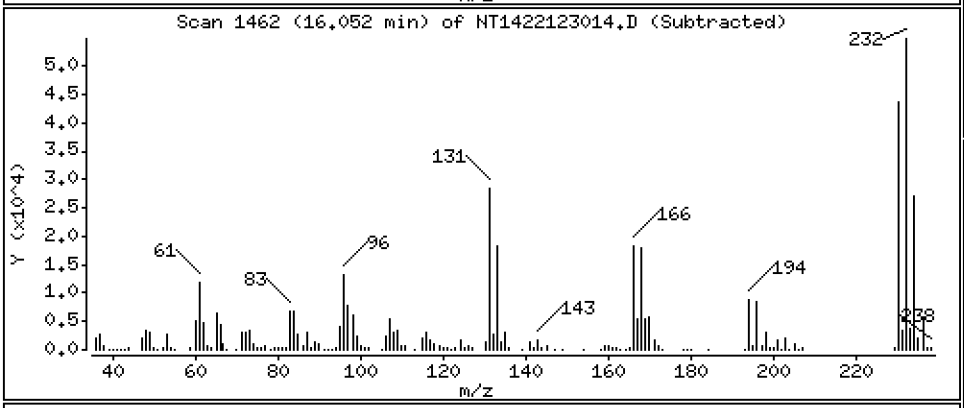
Column phase: ZB-5msi

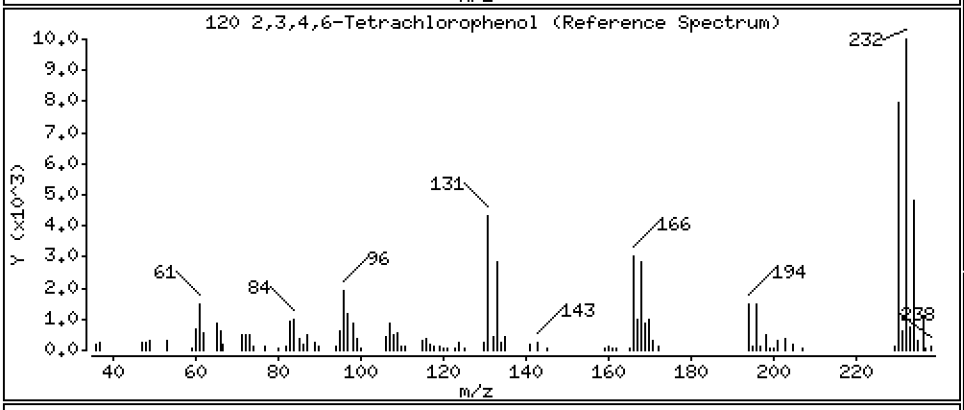
Column diameter: 0.25

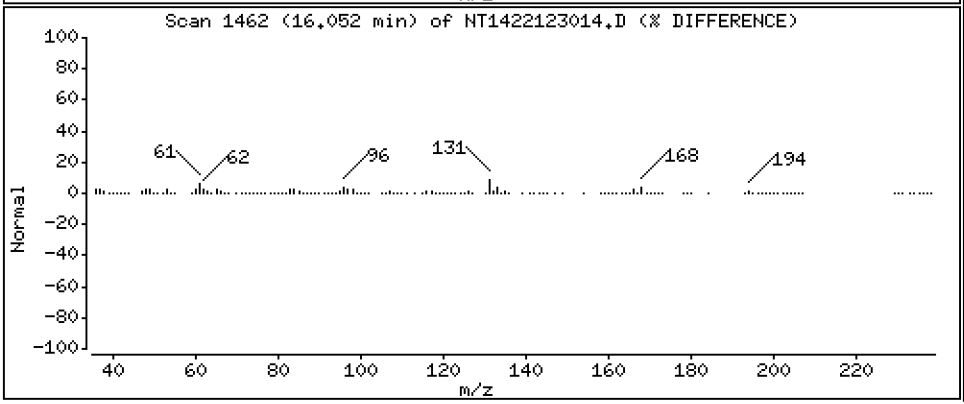
120 2,3,4,6-Tetrachlorophenol

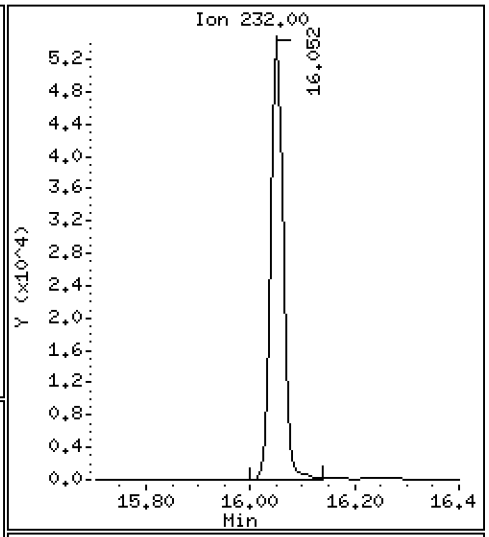
Concentration: 4.531 ug/mL

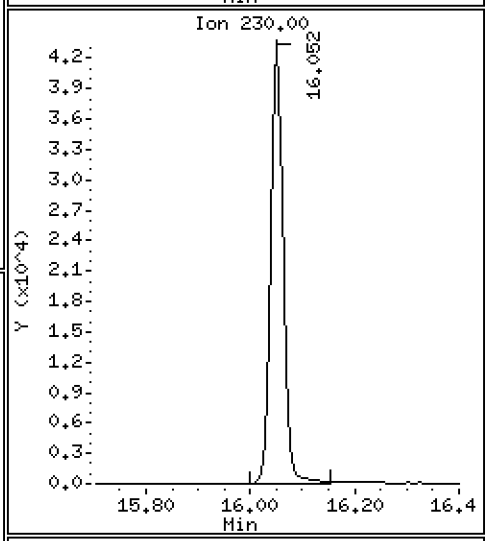


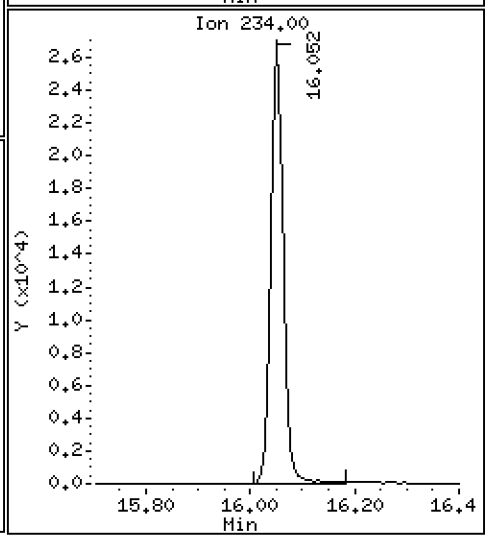












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230.b\NT1422123014.D
Lab Smp Id: SKL0355-ICV2
Inj Date : 30-DEC-2022 15:53 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-ICV2
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Meth Date : 04-Jan-2023 08:09 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.935	6.934	(0.755)	308210	7.37328	7.373
$	2 Phenol-d5	99	8.526	8.526	(0.928)	385154	7.45579	7.456
	3 Phenol	94	8.550	8.549	(0.931)	280303	4.77530	4.775
$	5 2-Chlorophenol-d4	132	8.812	8.820	(0.960)	314158	7.24118	7.241
	4 Bis(2-Chloroethyl)ether	93	8.719	8.719	(0.949)	190620	4.71419	4.714
	6 2-Chlorophenol	128	8.843	8.843	(0.963)	223136	4.68309	4.683
	7 1,3-Dichlorobenzene	146	9.122	9.121	(0.993)	230118	4.55456	4.555
*	8 1,4-Dichlorobenzene-d4	152	9.184	9.183	(1.000)	130476	4.00000	
	9 1,4-Dichlorobenzene	146	9.215	9.214	(1.003)	217862	4.55156	4.552
$	10 1,2-Dichlorobenzene-d4	152	9.548	9.548	(1.040)	138662	4.67622	4.676
	12 1,2-Dichlorobenzene	146	9.572	9.571	(1.042)	217027	4.62327	4.623
	11 Benzyl alcohol	108	9.447	9.447	(1.029)	129608	4.95987	4.960
	14 2,2'-oxybis(1-Chloropropane)	121	9.758	9.758	(1.063)	50798	3.73248	3.732
	13 2-Methylphenol	108	9.673	9.672	(1.053)	207206	4.85794	4.858
	17 Hexachloroethane	117	10.177	10.177	(1.108)	84099	4.77717	4.777
	16 N-Nitroso-di-n-propylamine	70	10.014	10.014	(1.090)	133994	5.15699	5.157
	15 4-Methylphenol	108	9.944	9.944	(1.083)	220305	4.89616	4.896
$	18 Nitrobenzene-d5	82	10.278	10.285	(0.879)	204953	5.00970	5.010
	19 Nitrobenzene	77	10.317	10.316	(0.883)	196817	4.84408	4.844
	20 Isophorone	82	10.767	10.774	(0.921)	264091	5.09989	5.100
	21 2-Nitrophenol	139	10.953	10.953	(0.937)	121522	4.70002	4.700
	22 2,4-Dimethylphenol	107	11.000	10.999	(0.941)	401339	9.46431	9.464
	23 Bis(2-Chloroethoxy)methane	93	11.201	11.201	(0.958)	187236	4.64788	4.648
	24 Benzoic acid	105	11.193	11.201	(0.958)	466969	17.3883	17.39
	25 2,4-Dichlorophenol	162	11.410	11.410	(0.976)	358230	10.0218	10.02
	26 1,2,4-Trichlorobenzene	180	11.604	11.604	(0.993)	172538	4.46408	4.464
*	27 Naphthalene-d8	136	11.689	11.688	(1.000)	484478	4.00000	
	28 Naphthalene	128	11.727	11.735	(1.003)	545783	4.57764	4.578
	29 4-Chloroaniline	127	11.851	11.858	(1.014)	478513	9.73195	9.732
	30 Hexachlorobutadiene	225	12.098	12.098	(1.035)	86983	4.53587	4.536
	31 4-Chloro-3-methylphenol	107	12.810	12.818	(1.096)	337936	10.0182	10.02
	32 2-Methylnaphthalene	142	13.135	13.135	(1.124)	409647	4.68397	4.684
	33 Hexachlorocyclopentadiene	237	13.607	13.607	(0.888)	191298	9.67948	9.679

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
34	2,4,6-Trichlorophenol	196	13.754	13.754	(0.897)	214549	9.83188	9.832
35	2,4,5-Trichlorophenol	196	13.824	13.824	(0.902)	248250	9.85697	9.857
$ 36	2-Fluorobiphenyl	172	13.917	13.916	(0.908)	407699	4.63803	4.638
37	2-Chloronaphthalene	162	14.134	14.133	(0.922)	346005	4.62692	4.627
38	2-Nitroaniline	65	14.381	14.389	(0.938)	209733	10.6678	10.67
39	Dimethylphthalate	163	14.815	14.822	(0.967)	347899	4.71850	4.718
40	Acenaphthylene	152	15.008	15.008	(0.979)	537414	4.71315	4.713
41	2,6-Dinitrotoluene	165	14.954	14.954	(0.976)	165174	9.92663	9.927
* 42	Acenaphthene-d10	164	15.325	15.325	(1.000)	261445	4.00000	
43	3-Nitroaniline	138	15.240	15.240	(0.994)	200585	9.91816	9.918
44	Acenaphthene	153	15.387	15.394	(1.004)	326255	4.61321	4.613
45	2,4-Dinitrophenol	184	15.449	15.456	(1.008)	259341	17.6160	17.62
46	Dibenzofuran	168	15.719	15.719	(1.026)	482191	4.54662	4.547
47	4-Nitrophenol	109	15.542	15.549	(1.014)	93362	9.44134	9.441
48	2,4-Dinitrotoluene	165	15.766	15.765	(1.029)	225728	9.88745	9.887
50	Diethylphthalate	149	16.284	16.283	(1.063)	497843	4.96768	4.968
49	Fluorene	166	16.431	16.438	(1.072)	557395	4.94047	4.940
51	4-Chlorophenyl-phenylether	204	16.423	16.423	(1.072)	257743	4.66626	4.666
52	4-Nitroaniline	138	16.508	16.515	(1.077)	239364	9.61614	9.616
53	4,6-Dinitro-2-methylphenol	198	16.608	16.615	(0.904)	347239	19.1944	19.19
54	N-Nitrosodiphenylamine	169	16.670	16.669	(0.907)	327227	4.61933	4.619
$ 55	2,4,6-Tribromophenol	330	16.970	16.970	(1.107)	86618	6.81831	6.818
56	4-Bromophenyl-phenylether	248	17.425	17.433	(0.949)	123400	4.60038	4.600
57	Hexachlorobenzene	284	17.750	17.749	(0.966)	132817	4.51201	4.512
58	Pentachlorophenol	266	18.098	18.106	(0.985)	118918	8.91327	8.913
* 59	Phenanthrene-d10	188	18.369	18.376	(1.000)	412822	4.00000	
60	Phenanthrene	178	18.423	18.423	(1.003)	494198	4.59143	4.591
61	Anthracene	178	18.516	18.516	(1.008)	501351	4.87916	4.879
62	Carbazole	167	18.833	18.841	(1.025)	464657	4.67769	4.678
63	Di-n-butylphthalate	149	19.630	19.630	(1.069)	560630	4.80679	4.807
64	Fluoranthene	202	20.798	20.806	(0.889)	546633	4.86276	4.863
65	Pyrene	202	21.224	21.231	(0.907)	572281	4.84197	4.842
$ 66	Terphenyl-d14	244	21.503	21.510	(0.919)	397869	4.74754	4.748
67	Butylbenzylphthalate	149	22.424	22.423	(0.958)	220809	4.86864	4.869
68	Benzo(a)anthracene	228	23.384	23.384	(0.999)	507176	4.79555	4.796
* 69	Chrysene-d12	240	23.407	23.415	(1.000)	349122	4.00000	
70	3,3'-Dichlorobenzidine	252	23.330	23.329	(0.997)	396605	12.2501	12.25
71	Chrysene	228	23.454	23.461	(1.002)	468523	4.68997	4.690
72	bis(2-Ethylhexyl)phthalate	149	23.438	23.446	(0.959)	317067	5.46880	5.469
* 134	Di-n-octylphthalate-d4	153	24.437	24.437	(1.000)	522046	4.00000	
73	Di-n-octylphthalate	149	24.445	24.452	(1.000)	569094	4.54137	4.541
74	Benzo(b)fluoranthene	252	25.304	25.311	(0.969)	481563	4.68412	4.684
75	Benzo(k)fluoranthene	252	25.350	25.358	(0.971)	495263	4.73313	4.733
76	Benzo(a)pyrene	252	25.978	25.985	(0.995)	411908	4.81967	4.820
* 77	Perylene-d12	264	26.102	26.101	(1.000)	327130	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.853	28.869	(1.105)	479486	4.93535	4.935
79	Dibenzo(a,h)anthracene	278	28.869	28.876	(1.106)	395113	4.78585	4.786
80	Benzo(g,h,i)perylene	276	29.677	29.684	(1.137)	398711	4.89891	4.899
90	N-Nitrosodimethylamine	74	4.741	4.749	(0.516)	286265	9.94372	9.944
91	Aniline	93	8.627	8.634	(0.939)	554998	9.71062	9.711
93	Benzidine	184	21.023	21.030	(0.898)	368474	8.31946	8.319
103	Pyridine	79	4.772	4.780	(0.520)	452701	4.94876	4.949
105	1-methylnaphthalene	142	13.360	13.359	(1.143)	395432	4.70577	4.706
111	Azobenzene (1,2-DP-Hydrazine)	77	16.747	16.746	(1.093)	480358	4.94760	4.948

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.350	25.358	(0.971)	933646	9.39348	9.393
120 2,3,4,6-Tetrachlorophenol	232	16.052	16.051	(1.047)	86602	4.53059	4.531

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123014.D
Lab Smp Id: SKL0355-ICV2
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Misc Info:

Calibration Date: 30-DEC-2022
Calibration Time: 08:06
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	151013	75507	302026	130476	-13.60
27 Naphthalene-d8	553510	276755	1107020	484478	-12.47
42 Acenaphthene-d10	305411	152706	610822	261445	-14.40
59 Phenanthrene-d10	491708	245854	983416	412822	-16.04
69 Chrysene-d12	424740	212370	849480	349122	-17.80
134 Di-n-octylphthala	684951	342476	1369902	522046	-23.78
77 Perylene-d12	395150	197575	790300	327130	-17.21

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.18	8.68	9.68	9.18	0.00
27 Naphthalene-d8	11.69	11.19	12.19	11.69	0.00
42 Acenaphthene-d10	15.33	14.83	15.83	15.33	0.00
59 Phenanthrene-d10	18.38	17.88	18.88	18.37	-0.04
69 Chrysene-d12	23.42	22.92	23.92	23.41	-0.03
134 Di-n-octylphthala	24.44	23.94	24.94	24.44	0.00
77 Perylene-d12	26.10	25.60	26.60	26.10	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123014.D

Lab ID: SKL0355-ICV2
nt14.i, 20221230.b\ABN.m,   30-DEC-2022 15:53

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1422123002.D

On Column LOD for nt14.i, 20221230.b\ABN.m, ICAL.sub = 0.0000

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

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123049.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/31/22
Lab Sample ID:	SKL0355-ICV4	Injection Time:	13:17
Sequence Name:	ABN 5		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Phenol	A	5.0000	4.7	1.7995200	1.6801430		-6.6	+/-20	
bis(2-chloroethyl) ether	A	5.0000	4.6	1.2396270	1.1354090		-8.4	+/-20	
2-Chlorophenol	A	5.0000	4.7	1.4607190	1.3781420		-5.7	+/-20	
1,3-Dichlorobenzene	A	5.0000	4.6	1.5489360	1.4156250		-8.6	+/-20	
1,4-Dichlorobenzene	A	5.0000	4.6	1.4674070	1.3450740		-8.3	+/-20	
1,2-Dichlorobenzene	A	5.0000	4.6	1.4391100	1.3214800		-8.2	+/-20	
Benzyl Alcohol	A	5.0000	4.9	0.8011083	0.7828800		-2.3	+/-20	
2,2'-Oxybis(1-chloropropane)	A	5.0000	4.7	0.4172325	0.3900475		-6.5	+/-20	
2-Methylphenol	A	5.0000	4.8	1.3076140	1.2453830		-4.8	+/-20	
Hexachloroethane	A	5.0000	4.4	0.5396966	0.4696673		-13.0	+/-20	
N-Nitroso-di-n-Propylamine	A	5.0000	5.0	0.7965591	0.7987206		0.3	+/-20	
4-Methylphenol	A	5.0000	4.9	1.3794240	1.3401830		-2.8	+/-20	
Nitrobenzene	A	5.0000	4.9	0.3354574	0.3275726		-2.4	+/-20	
Isophorone	A	5.0000	5.2	0.4275424	0.4488704		5.0	+/-20	
2-Nitrophenol	A	5.0000	5.2	0.2064997	0.2249104		4.8	+/-20	
2,4-Dimethylphenol	A	10.000	10.4	0.3501131	0.3625637		3.6	+/-20	
Bis(2-Chloroethoxy)methane	A	5.0000	4.6	0.3325989	0.3076842		-7.5	+/-20	
2,4-Dichlorophenol	A	10.000	10.4	0.2951237	0.3079848		4.4	+/-20	
1,2,4-Trichlorobenzene	A	5.0000	4.5	0.3191088	0.2892532		-9.4	+/-20	
Naphthalene	A	5.0000	4.6	0.9843833	0.9078499		-7.8	+/-20	
Benzoic acid	A	20.000	15.8	0.1508906	0.1739713		-21.3	+/-20	*
4-Chloroaniline	A	10.000	10.3	0.4059568	0.4162417		2.5	+/-20	
Hexachlorobutadiene	A	5.0000	4.6	0.1583286	0.1461855		-7.7	+/-20	
4-Chloro-3-Methylphenol	A	10.000	10.2	0.2785027	0.2842360		2.1	+/-20	
2-Methylnaphthalene	A	5.0000	4.8	0.7220739	0.6907626		-4.3	+/-20	
Hexachlorocyclopentadiene	A	10.000	4.8	0.3023695	0.1447796		-52.1	+/-20	*
2,4,6-Trichlorophenol	A	10.000	10.5	0.3338641	0.3513387		5.2	+/-20	
2,4,5-Trichlorophenol	A	10.000	10.0	0.3853234	0.3861223		0.2	+/-20	
2-Chloronaphthalene	A	5.0000	4.6	1.1441150	1.0635150		-7.0	+/-20	
2-Nitroaniline	A	10.000	10.8	0.3007956	0.3242350		7.8	+/-20	

* Values outside of QC limits

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123049.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/31/22
Lab Sample ID:	SKL0355-ICV4	Injection Time:	13:17
Sequence Name:	ABN 5		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Acenaphthylene	A	5.0000	4.7	1.7445240	1.6524400		-5.3	+/-20	
Dimethylphthalate	A	5.0000	4.8	1.1280520	1.0813340		-4.1	+/-20	
2,6-Dinitrotoluene	A	10.000	10.1	0.2545771	0.2561130		0.6	+/-20	
Acenaphthene	A	5.0000	4.6	1.0820160	0.9971221		-7.8	+/-20	
3-Nitroaniline	A	10.000	9.9	0.3094189	0.3048378		-1.5	+/-20	
2,4-Dinitrophenol	A	20.000	14.9	0.1831718	0.1666727		-25.5	+/-20	*
Dibenzofuran	A	5.0000	4.6	1.6225950	1.4938400		-7.9	+/-20	
4-Nitrophenol	A	10.000	8.9	0.1384031	0.1342845		-11.1	+/-20	
2,4-Dinitrotoluene	A	10.000	9.8	0.3492859	0.3436218		-1.6	+/-20	
Fluorene	A	5.0000	5.1	1.7261350	1.7561080		1.7	+/-20	
4-Chlorophenylphenyl ether	A	5.0000	4.8	0.8450792	0.8091917		-4.2	+/-20	
Diethyl phthalate	A	5.0000	5.1	1.5332690	1.5777480		2.9	+/-20	
4-Nitroaniline	A	10.000	9.3	0.3413732	0.3539277		-7.0	+/-20	
4,6-Dinitro-2-methylphenol	A	20.000	17.2	0.1530278	0.1498780		-14.1	+/-20	
N-Nitrosodiphenylamine	A	5.0000	4.7	0.6863845	0.6513109		-5.1	+/-20	
4-Bromophenyl phenyl ether	A	5.0000	4.7	0.2599074	0.2455477		-5.5	+/-20	
Hexachlorobenzene	A	5.0000	4.5	0.2852204	0.2590127		-9.2	+/-20	
Pentachlorophenol	A	10.000	6.8	0.1128364	0.0871737		-31.8	+/-20	*
Phenanthrene	A	5.0000	4.5	1.0429190	0.9427209		-9.6	+/-20	
Anthracene	A	5.0000	4.8	0.9956202	0.9643179		-3.1	+/-20	
Carbazole	A	5.0000	4.7	0.9624945	0.9015232		-6.3	+/-20	
Di-n-Butylphthalate	A	5.0000	5.0	1.0394700	1.1338500		0.1	+/-20	
Fluoranthene	A	5.0000	4.6	1.2879410	1.1971170		-7.1	+/-20	
Pyrene	A	5.0000	4.6	1.3541610	1.2361520		-8.7	+/-20	
Butylbenzylphthalate	A	5.0000	5.1	0.4650792	0.5260304		1.2	+/-20	
Benzo(a)anthracene	A	5.0000	4.8	1.2117210	1.1557250		-4.6	+/-20	
3,3'-Dichlorobenzidine	A	15.000	16.9	0.3709370	0.4182666		12.7	+/-20	
Chrysene	A	5.0000	4.6	1.1445730	1.0481760		-8.4	+/-20	
bis(2-Ethylhexyl)phthalate	A	5.0000	5.0	0.4442323	0.4451666		0.2	+/-20	
Di-n-Octylphthalate	A	5.0000	4.4	0.9601702	0.8388549		-12.6	+/-20	

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123049.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/31/22
Lab Sample ID:	SKL0355-ICV4	Injection Time:	13:17
Sequence Name:	ABN 5		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Benzofluoranthenes, Total	A	10.000	10.2	1.2153330	1.2442360		2.4	+/-20	
Benzo(a)pyrene	A	5.0000	5.1	1.0450150	1.0609490		1.5	+/-20	
Indeno(1,2,3-cd)pyrene	A	5.0000	3.2	1.1879490	0.7527935		-36.6	+/-20	*
Dibenzo(a,h)anthracene	A	5.0000	3.4	1.0094890	0.6813818		-32.5	+/-20	*
Benzo(g,h,i)perylene	A	5.0000	2.5	0.9951726	0.5009027		-49.7	+/-20	*
1-Methylnaphthalene	A	5.0000	4.8	0.6937882	0.6680471		-3.7	+/-20	
2-Fluorophenol	A	7.5000	7.39	1.2814900	1.2619160		-1.5	+/-20	
Phenol-d5	A	7.5000	7.43	1.5836890	1.5681240		-1.0	+/-20	
2-Chlorophenol-d4	A	7.5000	7.41	1.3300510	1.3136660		-1.2	+/-20	
1,2-Dichlorobenzene-d4	A	5.0000	4.69	0.9090592	0.8526335		-6.2	+/-20	
Nitrobenzene-d5	A	5.0000	5.09	0.3377760	0.3441254		1.9	+/-20	
2-Fluorobiphenyl	A	5.0000	4.71	1.3448860	1.2660660		-5.9	+/-20	
2,4,6-Tribromophenol	A	7.5000	6.91	0.1844845	0.1790322		-7.9	+/-20	
p-Terphenyl-d14	A	5.0000	4.44	0.9601842	0.8525341		-11.2	+/-20	
1,4-Dichlorobenzene-d4	A	4.0000	4.0	37290.1800	1.0000		0.0		
Naphthalene-d8	A	4.0000	4.0	136223.9000	1.0000		0.0		
Acenaphthene-d10	A	4.0000	4.0	73667.8600	1.0000		0.0		
Phenanthrene-d10	A	4.0000	4.0	117990.4000	1.0000		0.0		
Chrysene-d12	A	4.0000	4.0	101321.8000	1.0000		0.0		
Di-n-Octylphthalate-d4	A	4.0000	4.0	149451.2000	1.0000		0.0		
Perylene-d12	A	4.0000	4.0	93469.2100	1.0000		0.0		

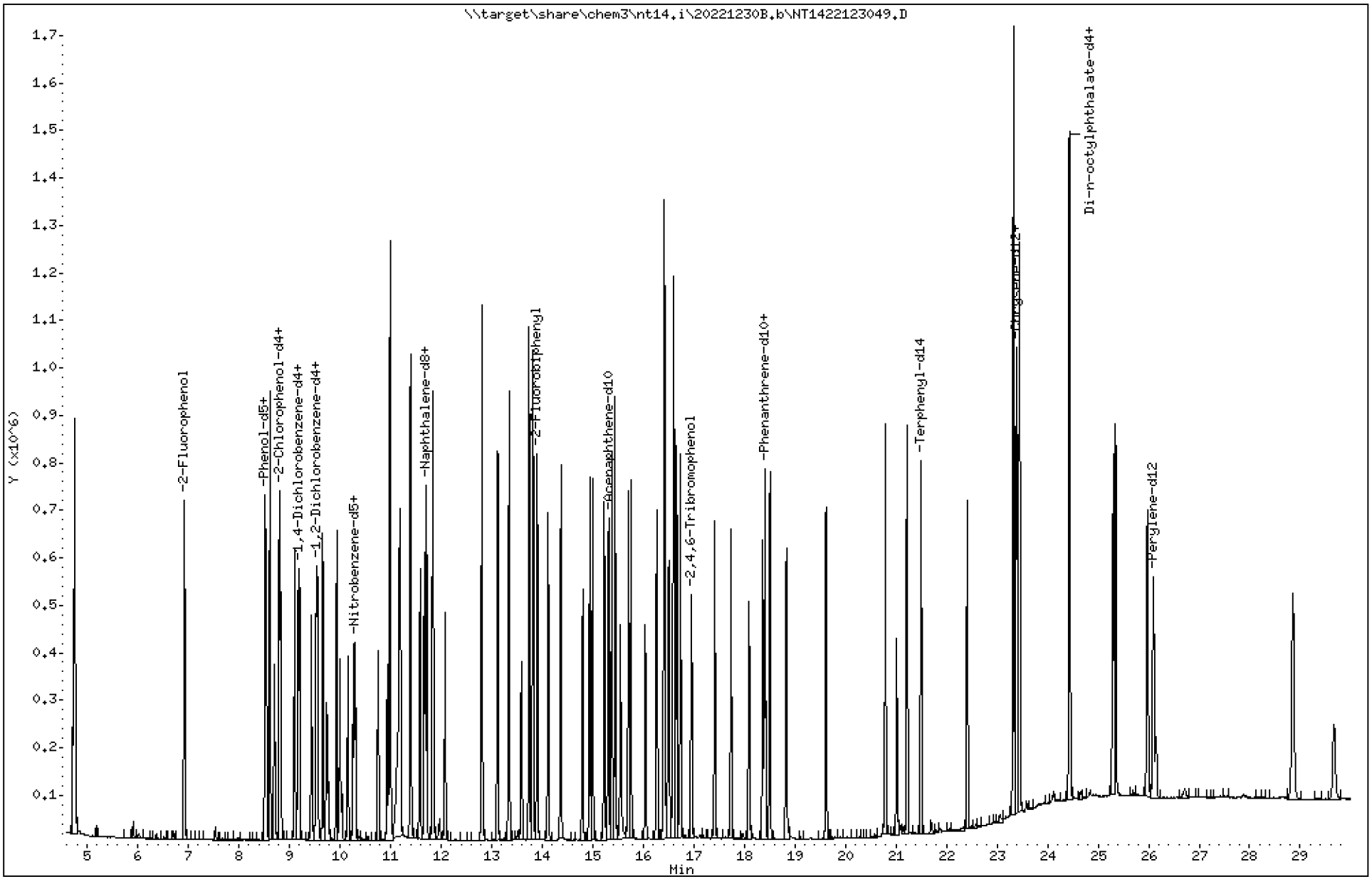
* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123049.D
Date : 31-DEC-2022 13:17
Client ID:
Sample Info: SKL0355-ICV4

Instrument: nt14.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230B.b\NT1422123049.D
Lab Smp Id: SKL0355-ICV4
Inj Date : 31-DEC-2022 13:17 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-ICV4
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230B.b\ABN.m
Meth Date : 04-Jan-2023 08:43 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.927	6.927	(0.756)	318095	7.50000	7.385
$	2 Phenol-d5	99	8.519	8.519	(0.929)	395282	7.50000	7.426
	3 Phenol	94	8.542	8.542	(0.932)	282346	5.00000	4.668
$	5 2-Chlorophenol-d4	132	8.804	8.804	(0.960)	331140	7.50000	7.408
	4 Bis(2-Chloroethyl)ether	93	8.704	8.704	(0.949)	190804	5.00000	4.580
	6 2-Chlorophenol	128	8.835	8.835	(0.964)	231595	5.00000	4.717
	7 1,3-Dichlorobenzene	146	9.106	9.106	(0.993)	237894	5.00000	4.570
*	8 1,4-Dichlorobenzene-d4	152	9.168	9.168	(1.000)	134439	4.00000	
	9 1,4-Dichlorobenzene	146	9.199	9.199	(1.003)	226038	5.00000	4.583
$	10 1,2-Dichlorobenzene-d4	152	9.533	9.533	(1.040)	143284	5.00000	4.690
	12 1,2-Dichlorobenzene	146	9.564	9.564	(1.043)	222073	5.00000	4.591
	11 Benzyl alcohol	108	9.440	9.440	(1.030)	131562	5.00000	4.886
	14 2,2'-oxybis(1-Chloropropane)	121	9.743	9.743	(1.063)	65547	5.00000	4.674(M)
	13 2-Methylphenol	108	9.665	9.665	(1.054)	209285	5.00000	4.762
	17 Hexachloroethane	117	10.162	10.162	(1.108)	78927	5.00000	4.351
	16 N-Nitroso-di-n-propylamine	70	9.999	9.999	(1.091)	134224	5.00000	5.014
	15 4-Methylphenol	108	9.937	9.937	(1.084)	225216	5.00000	4.858
$	18 Nitrobenzene-d5	82	10.270	10.270	(0.879)	211804	5.00000	5.094
	19 Nitrobenzene	77	10.301	10.301	(0.882)	201616	5.00000	4.882
	20 Isophorone	82	10.759	10.759	(0.921)	276273	5.00000	5.249
	21 2-Nitrophenol	139	10.938	10.938	(0.936)	138429	5.00000	5.240
	22 2,4-Dimethylphenol	107	10.992	10.992	(0.941)	446305	10.0000	10.36
	23 Bis(2-Chloroethoxy)methane	93	11.186	11.186	(0.958)	189375	5.00000	4.625
	24 Benzoic acid	105	11.201	11.201	(0.959)	428307	20.0000	15.75
	25 2,4-Dichlorophenol	162	11.403	11.403	(0.976)	379120	10.0000	10.44
	26 1,2,4-Trichlorobenzene	180	11.589	11.589	(0.992)	178031	5.00000	4.532
*	27 Naphthalene-d8	136	11.681	11.681	(1.000)	492388	4.00000	
	28 Naphthalene	128	11.720	11.720	(1.003)	558768	5.00000	4.611
	29 4-Chloroaniline	127	11.843	11.843	(1.014)	512381	10.0000	10.25
	30 Hexachlorobutadiene	225	12.083	12.083	(1.034)	89975	5.00000	4.617
	31 4-Chloro-3-methylphenol	107	12.810	12.810	(1.097)	349886	10.0000	10.21
	32 2-Methylnaphthalene	142	13.128	13.128	(1.124)	425154	5.00000	4.783
	33 Hexachlorocyclopentadiene	237	13.592	13.592	(0.887)	97972	10.0000	4.788

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.747	13.747	(0.897)	237750	10.0000	10.52
	35	2,4,5-Trichlorophenol	196	13.824	13.824	(0.902)	261288	10.0000	10.02
$	36	2-Fluorobiphenyl	172	13.909	13.909	(0.908)	428372	5.00000	4.707
	37	2-Chloronaphthalene	162	14.126	14.126	(0.922)	359839	5.00000	4.648
	38	2-Nitroaniline	65	14.373	14.373	(0.938)	219409	10.0000	10.78
	39	Dimethylphthalate	163	14.807	14.807	(0.967)	365868	5.00000	4.793
	40	Acenaphthylene	152	15.000	15.000	(0.979)	559101	5.00000	4.736
	41	2,6-Dinitrotoluene	165	14.946	14.946	(0.976)	173311	10.0000	10.06
*	42	Acenaphthene-d10	164	15.318	15.318	(1.000)	270679	4.00000	
	43	3-Nitroaniline	138	15.233	15.233	(0.994)	206283	10.0000	9.852
	44	Acenaphthene	153	15.379	15.379	(1.004)	337375	5.00000	4.608
	45	2,4-Dinitrophenol	184	15.441	15.441	(1.008)	225574	20.0000	14.90
	46	Dibenzofuran	168	15.712	15.712	(1.026)	505439	5.00000	4.603
	47	4-Nitrophenol	109	15.549	15.549	(1.015)	90870	10.0000	8.888
	48	2,4-Dinitrotoluene	165	15.758	15.758	(1.029)	232528	10.0000	9.838
	50	Diethylphthalate	149	16.268	16.268	(1.062)	533829	5.00000	5.145
	49	Fluorene	166	16.423	16.423	(1.072)	594177	5.00000	5.087
	51	4-Chlorophenyl-phenylether	204	16.415	16.415	(1.072)	273789	5.00000	4.788
	52	4-Nitroaniline	138	16.508	16.508	(1.078)	239502	10.0000	9.301
	53	4,6-Dinitro-2-methylphenol	198	16.608	16.608	(0.904)	321950	20.0000	17.18
	54	N-Nitrosodiphenylamine	169	16.662	16.662	(0.907)	349767	5.00000	4.745
$	55	2,4,6-Tribromophenol	330	16.963	16.963	(1.107)	90863	7.50000	6.905
	56	4-Bromophenyl-phenylether	248	17.418	17.418	(0.948)	131864	5.00000	4.724
	57	Hexachlorobenzene	284	17.742	17.742	(0.966)	139095	5.00000	4.541
	58	Pentachlorophenol	266	18.098	18.098	(0.985)	93628	10.0000	6.821
*	59	Phenanthrene-d10	188	18.369	18.369	(1.000)	429616	4.00000	
	60	Phenanthrene	178	18.415	18.415	(1.003)	506260	5.00000	4.520
	61	Anthracene	178	18.508	18.508	(1.008)	517858	5.00000	4.843
	62	Carbazole	167	18.833	18.833	(1.025)	484136	5.00000	4.683
	63	Di-n-butylphthalate	149	19.622	19.622	(1.068)	608900	5.00000	5.007
	64	Fluoranthene	202	20.798	20.798	(0.889)	562690	5.00000	4.647
	65	Pyrene	202	21.224	21.224	(0.907)	581038	5.00000	4.564
$	66	Terphenyl-d14	244	21.495	21.495	(0.918)	400723	5.00000	4.439
	67	Butylbenzylphthalate	149	22.416	22.416	(0.958)	247254	5.00000	5.058
	68	Benzo(a)anthracene	228	23.376	23.376	(0.999)	543234	5.00000	4.769
*	69	Chrysene-d12	240	23.407	23.407	(1.000)	376030	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.330	23.330	(0.997)	589803	15.0000	16.91
	71	Chrysene	228	23.454	23.454	(1.002)	492682	5.00000	4.579
	72	bis(2-Ethylhexyl)phthalate	149	23.438	23.438	(0.959)	353144	5.00000	5.011
*	134	Di-n-octylphthalate-d4	153	24.429	24.429	(1.000)	634628	4.00000	
	73	Di-n-octylphthalate	149	24.437	24.437	(1.000)	665451	5.00000	4.368
	74	Benzo(b)fluoranthene	252	25.304	25.304	(0.970)	517739	5.00000	4.900
	75	Benzo(k)fluoranthene	252	25.343	25.343	(0.971)	579041	5.00000	5.384
	76	Benzo(a)pyrene	252	25.978	25.978	(0.996)	445897	5.00000	5.076
*	77	Perylene-d12	264	26.094	26.094	(1.000)	336225	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.854	28.854	(1.106)	316385	5.00000	3.168
	79	Dibenzo(a,h)anthracene	278	28.861	28.861	(1.106)	286372	5.00000	3.375
	80	Benzo(g,h,i)perylene	276	29.669	29.669	(1.137)	210520	5.00000	2.517
	90	N-Nitrosodimethylamine	74	4.726	4.726	(0.516)	283127	10.0000	9.545
	91	Aniline	93	8.619	8.619	(0.940)	558976	10.0000	9.492
	93	Benzidine	184	21.015	21.015	(0.898)	282018	10.0000	5.976
	103	Pyridine	79	4.757	4.757	(0.519)	444965	5.00000	4.721
	105	1-methylnaphthalene	142	13.352	13.352	(1.143)	411173	5.00000	4.814
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.739	16.739	(1.093)	492427	5.00000	4.899

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.343	25.343	(0.971)	1045858	10.0000	10.24
120 2,3,4,6-Tetrachlorophenol	232	16.044	16.044	(1.047)	87129	5.00000	4.408

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123049.D
Lab Smp Id: SKL0355-ICV4
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230B.b\ABN.m
Misc Info:

Calibration Date: 30-DEC-2022
Calibration Time: 08:06
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	134439	67220	268878	134439	0.00
27 Naphthalene-d8	492388	246194	984776	492388	0.00
42 Acenaphthene-d10	270679	135340	541358	270679	0.00
59 Phenanthrene-d10	429616	214808	859232	429616	0.00
69 Chrysene-d12	376030	188015	752060	376030	0.00
134 Di-n-octylphthala	634628	317314	1269256	634628	0.00
77 Perylene-d12	336225	168113	672450	336225	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.17	8.67	9.67	9.17	0.00
27 Naphthalene-d8	11.68	11.18	12.18	11.68	0.00
42 Acenaphthene-d10	15.32	14.82	15.82	15.32	0.00
59 Phenanthrene-d10	18.37	17.87	18.87	18.37	0.00
69 Chrysene-d12	23.41	22.91	23.91	23.41	0.00
134 Di-n-octylphthala	24.43	23.93	24.93	24.43	0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123049.D

Lab ID: SKL0355-ICV4
nt14.i, 20221230B.b\ABN.m,   31-DEC-2022 13:17

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

No RRT check. Ccal file.

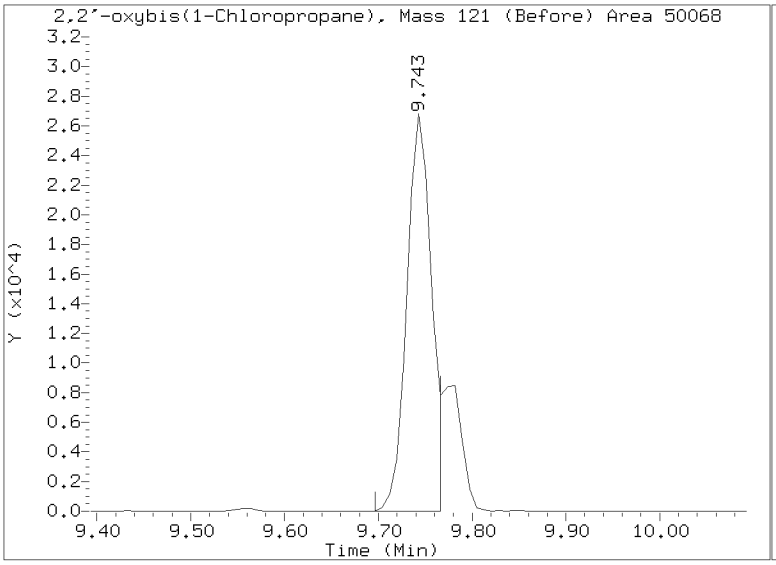
On Column LOD for nt14.i, 20221230B.b\ABN.m, ICAL.sub = 0.0000

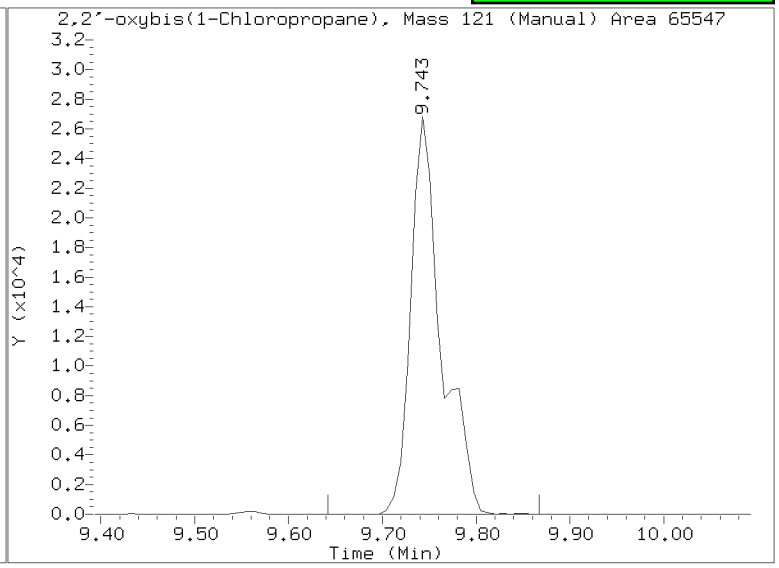
* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230B.b/NT1422123049.D
Injection Date: 31-DEC-2022 13:17
Lab ID:SKL0355-ICV4 Client ID:
Report Date: 01/04/2023 12:19

REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM





Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230B.b

Instrument: nt14.i Date: 31-DEC-2022 Method: 20221230B.b\ABN.m

INITIAL CAL: 30-DEC-2022

Compound	%RSD or R^2
NO Q-FLAGS	

ICV CAL: NT1422123049.D 31-DEC-2022 13:17

Compound	%D
Benzoic acid	-21.2
Hexachlorocyclopentadiene	-52.1
2,4-Dinitrophenol	-25.5
Pentachlorophenol	-31.8
Indeno(1,2,3-cd)pyrene	-36.6
Dibenzo(a,h)anthracene	-32.5
Benzo(g,h,i)perylene	-49.7
Benzidine	-40.2

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123066.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/31/22
Lab Sample ID:	SKL0355-ICV5	Injection Time:	23:30
Sequence Name:	ABN 5		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Phenol	A	5.0000	4.6	1.7995200	1.6541100		-8.1	+/-20	
bis(2-chloroethyl) ether	A	5.0000	4.5	1.2396270	1.1273220		-9.1	+/-20	
2-Chlorophenol	A	5.0000	4.7	1.4607190	1.3644940		-6.6	+/-20	
1,3-Dichlorobenzene	A	5.0000	4.6	1.5489360	1.4214870		-8.2	+/-20	
1,4-Dichlorobenzene	A	5.0000	4.6	1.4674070	1.3397200		-8.7	+/-20	
1,2-Dichlorobenzene	A	5.0000	4.6	1.4391100	1.3209120		-8.2	+/-20	
Benzyl Alcohol	A	5.0000	4.8	0.8011083	0.7636251		-4.7	+/-20	
2,2'-Oxybis(1-chloropropane)	A	5.0000	4.3	0.4172325	0.3591366		-13.9	+/-20	
2-Methylphenol	A	5.0000	4.7	1.3076140	1.2332530		-5.7	+/-20	
Hexachloroethane	A	5.0000	4.4	0.5396966	0.4729199		-12.4	+/-20	
N-Nitroso-di-n-Propylamine	A	5.0000	5.0	0.7965591	0.7933696		-0.4	+/-20	
4-Methylphenol	A	5.0000	4.8	1.3794240	1.3205430		-4.3	+/-20	
Nitrobenzene	A	5.0000	4.9	0.3354574	0.3301455		-1.6	+/-20	
Isophorone	A	5.0000	5.3	0.4275424	0.4545998		6.3	+/-20	
2-Nitrophenol	A	5.0000	5.4	0.2064997	0.2310454		7.5	+/-20	
2,4-Dimethylphenol	A	10.000	9.5	0.3501131	0.3342418		-4.5	+/-20	
Bis(2-Chloroethoxy)methane	A	5.0000	4.7	0.3325989	0.3094664		-7.0	+/-20	
2,4-Dichlorophenol	A	10.000	10.4	0.2951237	0.3075498		4.2	+/-20	
1,2,4-Trichlorobenzene	A	5.0000	4.5	0.3191088	0.2880378		-9.7	+/-20	
Naphthalene	A	5.0000	4.6	0.9843833	0.8996040		-8.6	+/-20	
Benzoic acid	A	20.000	15.0	0.1508906	0.1657042		-24.9	+/-20	*
4-Chloroaniline	A	10.000	9.4	0.4059568	0.3830169		-5.7	+/-20	
Hexachlorobutadiene	A	5.0000	4.7	0.1583286	0.1502550		-5.1	+/-20	
4-Chloro-3-Methylphenol	A	10.000	10.3	0.2785027	0.2866657		2.9	+/-20	
2-Methylnaphthalene	A	5.0000	4.8	0.7220739	0.6972628		-3.4	+/-20	
Hexachlorocyclopentadiene	A	10.000	5.0	0.3023695	0.1518054		-49.8	+/-20	*
2,4,6-Trichlorophenol	A	10.000	10.4	0.3338641	0.3460067		3.6	+/-20	
2,4,5-Trichlorophenol	A	10.000	10.0	0.3853234	0.3854916		0.0	+/-20	
2-Chloronaphthalene	A	5.0000	4.7	1.1441150	1.0645600		-7.0	+/-20	
2-Nitroaniline	A	10.000	10.9	0.3007956	0.3273099		8.8	+/-20	

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123066.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/31/22
Lab Sample ID:	SKL0355-ICV5	Injection Time:	23:30
Sequence Name:	ABN 5		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Acenaphthylene	A	5.0000	4.8	1.7445240	1.6645010		-4.6	+/-20	
Dimethylphthalate	A	5.0000	4.8	1.1280520	1.0867640		-3.7	+/-20	
2,6-Dinitrotoluene	A	10.000	10.1	0.2545771	0.2579856		1.3	+/-20	
Acenaphthene	A	5.0000	4.6	1.0820160	1.0009870		-7.5	+/-20	
3-Nitroaniline	A	10.000	9.7	0.3094189	0.2995328		-3.2	+/-20	
2,4-Dinitrophenol	A	20.000	10.4	0.1831718	0.1152467		-48.0	+/-20	*
Dibenzofuran	A	5.0000	4.6	1.6225950	1.4878950		-8.3	+/-20	
4-Nitrophenol	A	10.000	8.6	0.1384031	0.1290829		-14.5	+/-20	
2,4-Dinitrotoluene	A	10.000	9.9	0.3492859	0.3462479		-0.9	+/-20	
Fluorene	A	5.0000	5.1	1.7261350	1.7759490		2.9	+/-20	
4-Chlorophenylphenyl ether	A	5.0000	4.9	0.8450792	0.8294615		-1.8	+/-20	
Diethyl phthalate	A	5.0000	5.3	1.5332690	1.6189800		5.6	+/-20	
4-Nitroaniline	A	10.000	8.9	0.3413732	0.3375193		-11.2	+/-20	
4,6-Dinitro-2-methylphenol	A	20.000	14.2	0.1530278	0.1232685		-28.9	+/-20	*
N-Nitrosodiphenylamine	A	5.0000	4.7	0.6863845	0.6402818		-6.7	+/-20	
4-Bromophenyl phenyl ether	A	5.0000	4.7	0.2599074	0.2438656		-6.2	+/-20	
Hexachlorobenzene	A	5.0000	4.5	0.2852204	0.2582537		-9.5	+/-20	
Pentachlorophenol	A	10.000	4.9	0.1128364	0.0625034		-50.6	+/-20	*
Phenanthrene	A	5.0000	4.5	1.0429190	0.9401257		-9.9	+/-20	
Anthracene	A	5.0000	4.8	0.9956202	0.9631939		-3.3	+/-20	
Carbazole	A	5.0000	4.6	0.9624945	0.8907934		-7.4	+/-20	
Di-n-Butylphthalate	A	5.0000	5.2	1.0394700	1.1725880		3.4	+/-20	
Fluoranthene	A	5.0000	4.6	1.2879410	1.1939660		-7.3	+/-20	
Pyrene	A	5.0000	4.5	1.3541610	1.2193400		-10.0	+/-20	
Butylbenzylphthalate	A	5.0000	5.2	0.4650792	0.5450507		4.7	+/-20	
Benzo(a)anthracene	A	5.0000	4.7	1.2117210	1.1489750		-5.2	+/-20	
3,3'-Dichlorobenzidine	A	15.000	16.8	0.3709370	0.4155321		12.0	+/-20	
Chrysene	A	5.0000	4.6	1.1445730	1.0527600		-8.0	+/-20	
bis(2-Ethylhexyl)phthalate	A	5.0000	4.9	0.4442323	0.4386889		-1.2	+/-20	
Di-n-Octylphthalate	A	5.0000	4.3	0.9601702	0.8345177		-13.1	+/-20	

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123066.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/31/22
Lab Sample ID:	SKL0355-ICV5	Injection Time:	23:30
Sequence Name:	ABN 5		

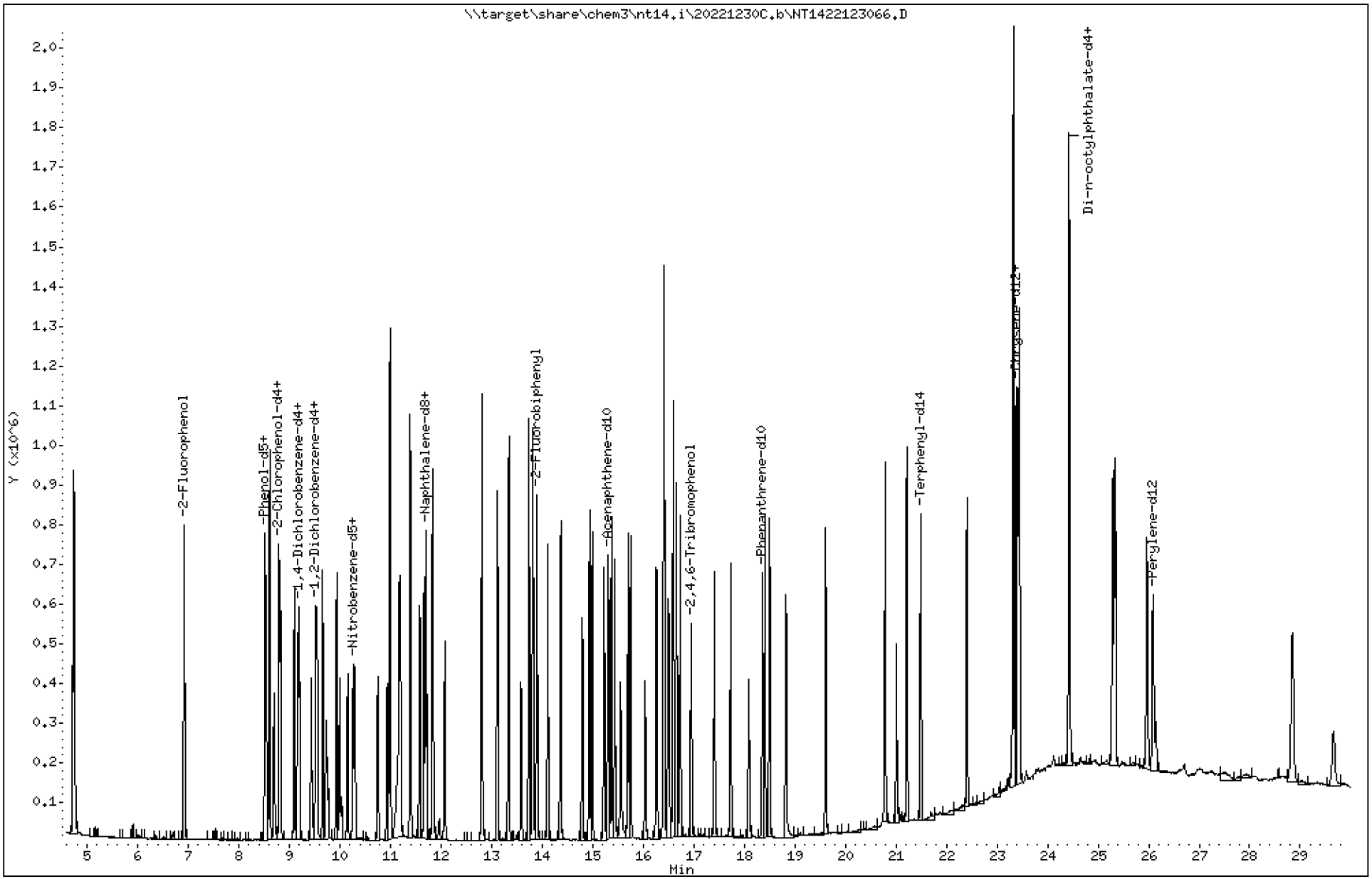
		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Benzofluoranthenes, Total	A	10.000	10.3	1.2153330	1.2538490		3.2	+/-20	
Benzo(a)pyrene	A	5.0000	5.1	1.0450150	1.0608340		1.5	+/-20	
Indeno(1,2,3-cd)pyrene	A	5.0000	2.9	1.1879490	0.6828509		-42.5	+/-20	*
Dibenzo(a,h)anthracene	A	5.0000	3.0	1.0094890	0.6136830		-39.2	+/-20	*
Benzo(g,h,i)perylene	A	5.0000	2.2	0.9951726	0.4471983		-55.1	+/-20	*
1-Methylnaphthalene	A	5.0000	4.9	0.6937882	0.6757147		-2.6	+/-20	
2-Fluorophenol	A	7.5000	7.34	1.2814900	1.2547510		-2.1	+/-20	
Phenol-d5	A	7.5000	7.34	1.5836890	1.5508350		-2.1	+/-20	
2-Chlorophenol-d4	A	7.5000	7.38	1.3300510	1.3086010		-1.6	+/-20	
1,2-Dichlorobenzene-d4	A	5.0000	4.68	0.9090592	0.8508292		-6.4	+/-20	
Nitrobenzene-d5	A	5.0000	5.19	0.3377760	0.3507210		3.8	+/-20	
2-Fluorobiphenyl	A	5.0000	4.77	1.3448860	1.2835680		-4.6	+/-20	
2,4,6-Tribromophenol	A	7.5000	6.70	0.1844845	0.1733623		-10.7	+/-20	
p-Terphenyl-d14	A	5.0000	4.34	0.9601842	0.8338715		-13.2	+/-20	
1,4-Dichlorobenzene-d4	A	4.0000	4.0	37290.1800	1.0000		0.0		
Naphthalene-d8	A	4.0000	4.0	136223.9000	1.0000		0.0		
Acenaphthene-d10	A	4.0000	4.0	73667.8600	1.0000		0.0		
Phenanthrene-d10	A	4.0000	4.0	117990.4000	1.0000		0.0		
Chrysene-d12	A	4.0000	4.0	101321.8000	1.0000		0.0		
Di-n-Octylphthalate-d4	A	4.0000	4.0	149451.2000	1.0000		0.0		
Perylene-d12	A	4.0000	4.0	93469.2100	1.0000		0.0		

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123066.D
Date : 31-DEC-2022 23:30
Client ID:
Sample Info: SKL0355-ICV5

Instrument: nt14.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230C.b\NT1422123066.D
Lab Smp Id: SKL0355-ICV5
Inj Date : 31-DEC-2022 23:30 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-ICV5
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.919	6.919	(0.755)	326443	7.50000	7.344
$	2 Phenol-d5	99	8.519	8.519	(0.930)	403474	7.50000	7.344
	3 Phenol	94	8.542	8.542	(0.932)	286895	5.00000	4.596
$	5 2-Chlorophenol-d4	132	8.797	8.797	(0.960)	340453	7.50000	7.379
	4 Bis(2-Chloroethyl)ether	93	8.696	8.696	(0.949)	195527	5.00000	4.547
	6 2-Chlorophenol	128	8.827	8.827	(0.964)	236663	5.00000	4.671
	7 1,3-Dichlorobenzene	146	9.098	9.098	(0.993)	246548	5.00000	4.589
*	8 1,4-Dichlorobenzene-d4	152	9.160	9.160	(1.000)	138755	4.00000	
	9 1,4-Dichlorobenzene	146	9.191	9.191	(1.003)	232366	5.00000	4.565
$	10 1,2-Dichlorobenzene-d4	152	9.525	9.525	(1.040)	147571	5.00000	4.680
	12 1,2-Dichlorobenzene	146	9.556	9.556	(1.043)	229104	5.00000	4.589
	11 Benzyl alcohol	108	9.440	9.440	(1.030)	132446	5.00000	4.766
	14 2,2'-oxybis(1-Chloropropane)	121	9.735	9.735	(1.063)	62290	5.00000	4.304(M)
	13 2-Methylphenol	108	9.665	9.665	(1.055)	213900	5.00000	4.716
	17 Hexachloroethane	117	10.154	10.154	(1.108)	82025	5.00000	4.381
	16 N-Nitroso-di-n-propylamine	70	9.998	9.998	(1.092)	137605	5.00000	4.980
	15 4-Methylphenol	108	9.936	9.936	(1.085)	229040	5.00000	4.787
$	18 Nitrobenzene-d5	82	10.262	10.262	(0.879)	219956	5.00000	5.192
	19 Nitrobenzene	77	10.301	10.301	(0.882)	207052	5.00000	4.921
	20 Isophorone	82	10.751	10.751	(0.921)	285104	5.00000	5.316
	21 2-Nitrophenol	139	10.937	10.937	(0.937)	144901	5.00000	5.376
	22 2,4-Dimethylphenol	107	10.992	10.992	(0.942)	419242	10.0000	9.547
	23 Bis(2-Chloroethoxy)methane	93	11.186	11.186	(0.958)	194083	5.00000	4.652
	24 Benzoic acid	105	11.209	11.209	(0.960)	415688	20.0000	15.03
	25 2,4-Dichlorophenol	162	11.395	11.395	(0.976)	385762	10.0000	10.42
	26 1,2,4-Trichlorobenzene	180	11.581	11.581	(0.992)	180644	5.00000	4.513
*	27 Naphthalene-d8	136	11.673	11.673	(1.000)	501723	4.00000	
	28 Naphthalene	128	11.712	11.712	(1.003)	564190	5.00000	4.569
	29 4-Chloroaniline	127	11.835	11.835	(1.014)	480421	10.0000	9.435
	30 Hexachlorobutadiene	225	12.075	12.075	(1.034)	94233	5.00000	4.745
	31 4-Chloro-3-methylphenol	107	12.810	12.810	(1.097)	359567	10.0000	10.29
	32 2-Methylnaphthalene	142	13.120	13.120	(1.124)	437291	5.00000	4.828
	33 Hexachlorocyclopentadiene	237	13.584	13.584	(0.887)	104455	10.0000	5.021

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.739	13.739	(0.897)	238082	10.0000	10.36
	35 2,4,5-Trichlorophenol	196	13.816	13.816	(0.902)	265251	10.0000	10.00
$	36 2-Fluorobiphenyl	172	13.901	13.901	(0.908)	441602	5.00000	4.772
	37 2-Chloronaphthalene	162	14.118	14.118	(0.922)	366254	5.00000	4.652
	38 2-Nitroaniline	65	14.373	14.373	(0.939)	225217	10.0000	10.88
	39 Dimethylphthalate	163	14.799	14.799	(0.967)	373893	5.00000	4.817
	40 Acenaphthylene	152	14.993	14.993	(0.979)	572659	5.00000	4.771
	41 2,6-Dinitrotoluene	165	14.938	14.938	(0.976)	177516	10.0000	10.13
*	42 Acenaphthene-d10	164	15.310	15.310	(1.000)	275234	4.00000	
	43 3-Nitroaniline	138	15.225	15.225	(0.994)	206104	10.0000	9.680
	44 Acenaphthene	153	15.371	15.371	(1.004)	344382	5.00000	4.626
	45 2,4-Dinitrophenol	184	15.441	15.441	(1.009)	158599	20.0000	10.41
	46 Dibenzofuran	168	15.704	15.704	(1.026)	511899	5.00000	4.585
	47 4-Nitrophenol	109	15.557	15.557	(1.016)	88820	10.0000	8.550
	48 2,4-Dinitrotoluene	165	15.750	15.750	(1.029)	238248	10.0000	9.913
	50 Diethylphthalate	149	16.268	16.268	(1.063)	556998	5.00000	5.280
	49 Fluorene	166	16.423	16.423	(1.073)	611002	5.00000	5.144
	51 4-Chlorophenyl-phenylether	204	16.407	16.407	(1.072)	285370	5.00000	4.908
	52 4-Nitroaniline	138	16.500	16.500	(1.078)	232242	10.0000	8.879
	53 4,6-Dinitro-2-methylphenol	198	16.600	16.600	(0.904)	271243	20.0000	14.23
	54 N-Nitrosodiphenylamine	169	16.654	16.654	(0.907)	352223	5.00000	4.664
$	55 2,4,6-Tribromophenol	330	16.955	16.955	(1.107)	89466	7.50000	6.695
	56 4-Bromophenyl-phenylether	248	17.410	17.410	(0.948)	134152	5.00000	4.691
	57 Hexachlorobenzene	284	17.734	17.734	(0.966)	142067	5.00000	4.527
	58 Pentachlorophenol	266	18.090	18.090	(0.985)	68767	10.0000	4.939
*	59 Phenanthrene-d10	188	18.361	18.361	(1.000)	440085	4.00000	
	60 Phenanthrene	178	18.408	18.408	(1.003)	517169	5.00000	4.507
	61 Anthracene	178	18.500	18.500	(1.008)	529859	5.00000	4.837
	62 Carbazole	167	18.825	18.825	(1.025)	490031	5.00000	4.628
	63 Di-n-butylphthalate	149	19.614	19.614	(1.068)	645048	5.00000	5.171
	64 Fluoranthene	202	20.791	20.791	(0.889)	574290	5.00000	4.635
	65 Pyrene	202	21.216	21.216	(0.907)	586495	5.00000	4.502
$	66 Terphenyl-d14	244	21.495	21.495	(0.919)	401087	5.00000	4.342
	67 Butylbenzylphthalate	149	22.408	22.408	(0.958)	262166	5.00000	5.237
	68 Benzo(a)anthracene	228	23.376	23.376	(0.999)	552650	5.00000	4.741
*	69 Chrysene-d12	240	23.399	23.399	(1.000)	384795	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.322	23.322	(0.997)	599605	15.0000	16.80
	71 Chrysene	228	23.446	23.446	(1.002)	506371	5.00000	4.599
	72 bis(2-Ethylhexyl)phthalate	149	23.430	23.430	(0.959)	369886	5.00000	4.938
*	134 Di-n-octylphthalate-d4	153	24.421	24.421	(1.000)	674530	4.00000	
	73 Di-n-octylphthalate	149	24.429	24.429	(1.000)	703634	5.00000	4.346
	74 Benzo(b)fluoranthene	252	25.296	25.296	(0.970)	566281	5.00000	5.352
	75 Benzo(k)fluoranthene	252	25.335	25.335	(0.971)	539859	5.00000	5.013
	76 Benzo(a)pyrene	252	25.970	25.970	(0.996)	446432	5.00000	5.076
*	77 Perylene-d12	264	26.086	26.086	(1.000)	336665	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	28.838	28.838	(1.105)	287365	5.00000	2.874
	79 Dibenzo(a,h)anthracene	278	28.853	28.853	(1.106)	258257	5.00000	3.040
	80 Benzo(g,h,i)perylene	276	29.653	29.653	(1.137)	188195	5.00000	2.247
	90 N-Nitrosodimethylamine	74	4.718	4.718	(0.515)	284104	10.0000	9.280
	91 Aniline	93	8.611	8.611	(0.940)	567250	10.0000	9.333
	93 Benzidine	184	21.015	21.015	(0.898)	298846	10.0000	6.182
	103 Pyridine	79	4.741	4.741	(0.518)	450863	5.00000	4.635
	105 1-methylnaphthalene	142	13.344	13.344	(1.143)	423777	5.00000	4.870
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.731	16.731	(1.093)	503446	5.00000	4.926

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.335	25.335	(0.971)	1055318	10.0000	10.32
120 2,3,4,6-Tetrachlorophenol	232	16.044	16.044	(1.048)	82302	5.00000	4.106

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123066.D
Lab Smp Id: SKL0355-ICV5
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Misc Info:

Calibration Date: 30-DEC-2022
Calibration Time: 08:06
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138755	69378	277510	138755	0.00
27 Naphthalene-d8	501723	250862	1003446	501723	0.00
42 Acenaphthene-d10	275234	137617	550468	275234	0.00
59 Phenanthrene-d10	440085	220043	880170	440085	0.00
69 Chrysene-d12	384795	192398	769590	384795	0.00
134 Di-n-octylphthala	674530	337265	1349060	674530	0.00
77 Perylene-d12	336665	168333	673330	336665	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	0.00
42 Acenaphthene-d10	15.31	14.81	15.81	15.31	0.00
59 Phenanthrene-d10	18.36	17.86	18.86	18.36	0.00
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.42	0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123066.D

Lab ID: SKL0355-ICV5
nt14.i, 20221230C.b\ABN.m,   31-DEC-2022 23:30

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

No RRT check. Ccal file.

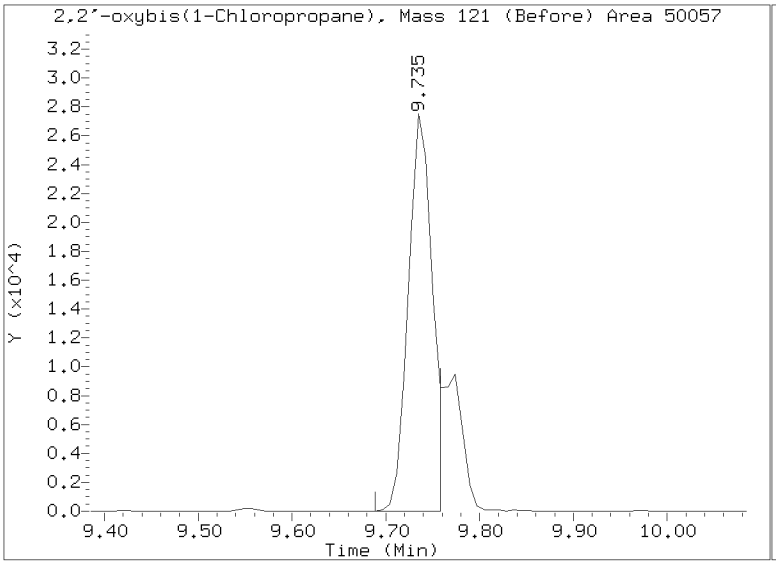
On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

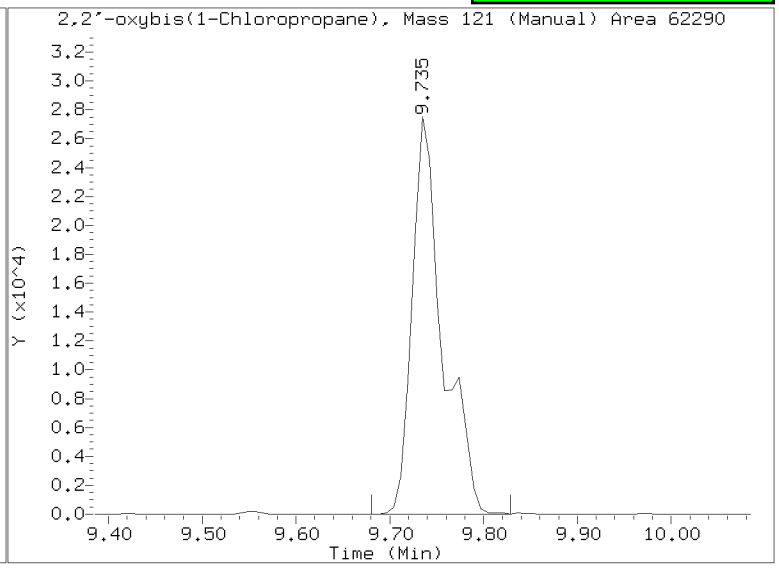
* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230C.b/NT1422123066.D
Injection Date: 31-DEC-2022 23:30
Lab ID:SKL0355-ICV5 Client ID:
Report Date: 01/04/2023 14:23

REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM





Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230C.b

Instrument: nt14.i Date: 31-DEC-2022 Method: 20221230C.b\ABN.m

INITIAL CAL: 30-DEC-2022

Compound	%RSD or R^2
NO Q-FLAGS	

ICV CAL: NT1422123066.D 31-DEC-2022 23:30

Compound	%D
Benzoic acid	-24.8
Hexachlorocyclopentadiene	-49.8
2,4-Dinitrophenol	-47.9
4,6-Dinitro-2-methylphenol	-28.8
Pentachlorophenol	-50.6
Indeno(1,2,3-cd)pyrene	-42.5
Dibenzo(a,h)anthracene	-39.2
Benzo(g,h,i)perylene	-55.1
Benzidine	-38.2

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123083.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	01/01/23
Lab Sample ID:	SKL0355-CCV1	Injection Time:	09:41
Sequence Name:	ABN 5		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol	A	5.0000	4.6	1.7995200	1.6731840		-7.0	+/-50
bis(2-chloroethyl) ether	A	5.0000	4.6	1.2396270	1.1353140		-8.4	+/-50
2-Chlorophenol	A	5.0000	4.7	1.4607190	1.3754550		-5.8	+/-50
1,3-Dichlorobenzene	A	5.0000	4.6	1.5489360	1.4240610		-8.1	+/-50
1,4-Dichlorobenzene	A	5.0000	4.6	1.4674070	1.3461820		-8.3	+/-50
1,2-Dichlorobenzene	A	5.0000	4.6	1.4391100	1.3216280		-8.2	+/-50
Benzyl Alcohol	A	5.0000	4.9	0.8011083	0.7786153		-2.8	+/-50
2,2'-Oxybis(1-chloropropane)	A	5.0000	4.3	0.4172325	0.3583668		-14.1	+/-50
2-Methylphenol	A	5.0000	4.8	1.3076140	1.2542810		-4.1	+/-50
Hexachloroethane	A	5.0000	4.4	0.5396966	0.4720417		-12.5	+/-50
N-Nitroso-di-n-Propylamine	A	5.0000	5.1	0.7965591	0.8192319		2.8	+/-50
4-Methylphenol	A	5.0000	4.9	1.3794240	1.3458060		-2.4	+/-50
Nitrobenzene	A	5.0000	5.0	0.3354574	0.3326707		-0.8	+/-50
Isophorone	A	5.0000	5.3	0.4275424	0.4559427		6.6	+/-50
2-Nitrophenol	A	5.0000	5.3	0.2064997	0.2291351		6.7	+/-50
2,4-Dimethylphenol	A	10.000	9.5	0.3501131	0.3314908		-5.3	+/-50
Bis(2-Chloroethoxy)methane	A	5.0000	4.6	0.3325989	0.3066220		-7.8	+/-50
2,4-Dichlorophenol	A	10.000	10.2	0.2951237	0.3014082		2.1	+/-50
1,2,4-Trichlorobenzene	A	5.0000	4.4	0.3191088	0.2836408		-11.1	+/-50
Naphthalene	A	5.0000	4.5	0.9843833	0.8905064		-9.5	+/-50
Benzoic acid	A	20.000	16.5	0.1508906	0.1821334		-17.7	+/-50
4-Chloroaniline	A	10.000	9.9	0.4059568	0.4009825		-1.2	+/-50
Hexachlorobutadiene	A	5.0000	4.7	0.1583286	0.1487629		-6.0	+/-50
4-Chloro-3-Methylphenol	A	10.000	10.3	0.2785027	0.2878108		3.3	+/-50
2-Methylnaphthalene	A	5.0000	4.8	0.7220739	0.6897975		-4.5	+/-50
Hexachlorocyclopentadiene	A	10.000	3.6	0.3023695	0.1086819		-64.1	+/-50
2,4,6-Trichlorophenol	A	10.000	10.4	0.3338641	0.3462884		3.7	+/-50
2,4,5-Trichlorophenol	A	10.000	9.9	0.3853234	0.3824028		-0.8	+/-50
2-Chloronaphthalene	A	5.0000	4.6	1.1441150	1.0481300		-8.4	+/-50
2-Nitroaniline	A	10.000	11.3	0.3007956	0.3389274		12.7	+/-50
Acenaphthylene	A	5.0000	5.0	1.7445240	1.7594450		0.9	+/-50
Dimethylphthalate	A	5.0000	4.8	1.1280520	1.0808130		-4.2	+/-50
2,6-Dinitrotoluene	A	10.000	10.1	0.2545771	0.2581819		1.4	+/-50

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123083.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	01/01/23
Lab Sample ID:	SKL0355-CCV1	Injection Time:	09:41
Sequence Name:	ABN 5		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Acenaphthene	A	5.0000	4.6	1.0820160	0.9999683		-7.6	+/-50
3-Nitroaniline	A	10.000	9.7	0.3094189	0.2995874		-3.2	+/-50
2,4-Dinitrophenol	A	20.000	13.3	0.1831718	0.1482472		-33.5	+/-50
Dibenzofuran	A	5.0000	4.5	1.6225950	1.4657240		-9.7	+/-50
4-Nitrophenol	A	10.000	9.2	0.1384031	0.1391299		-8.0	+/-50
2,4-Dinitrotoluene	A	10.000	9.9	0.3492859	0.3448000		-1.3	+/-50
Fluorene	A	5.0000	5.1	1.7261350	1.7687430		2.5	+/-50
4-Chlorophenylphenyl ether	A	5.0000	4.9	0.8450792	0.8314608		-1.6	+/-50
Diethyl phthalate	A	5.0000	5.4	1.5332690	1.6478880		7.5	+/-50
4-Nitroaniline	A	10.000	9.0	0.3413732	0.3423503		-10.0	+/-50
4,6-Dinitro-2-methylphenol	A	20.000	16.5	0.1530278	0.1432829		-17.7	+/-50
N-Nitrosodiphenylamine	A	5.0000	4.8	0.6863845	0.6588924		-4.0	+/-50
4-Bromophenyl phenyl ether	A	5.0000	4.7	0.2599074	0.2455607		-5.5	+/-50
Hexachlorobenzene	A	5.0000	4.6	0.2852204	0.2597005		-8.9	+/-50
Pentachlorophenol	A	10.000	6.1	0.1128364	0.0780640		-38.7	+/-50
Phenanthrene	A	5.0000	4.5	1.0429190	0.9402024		-9.8	+/-50
Anthracene	A	5.0000	4.9	0.9956202	0.9773434		-1.8	+/-50
Carbazole	A	5.0000	4.7	0.9624945	0.9134956		-5.1	+/-50
Di-n-Butylphthalate	A	5.0000	5.4	1.0394700	1.2185270		7.3	+/-50
Fluoranthene	A	5.0000	4.6	1.2879410	1.1892920		-7.7	+/-50
Pyrene	A	5.0000	4.5	1.3541610	1.2242240		-9.6	+/-50
Butylbenzylphthalate	A	5.0000	5.4	0.4650792	0.5665680		8.8	+/-50
Benzo(a)anthracene	A	5.0000	4.8	1.2117210	1.1678500		-3.6	+/-50
3,3'-Dichlorobenzidine	A	15.000	16.9	0.3709370	0.4172378		12.5	+/-50
Chrysene	A	5.0000	4.7	1.1445730	1.0805530		-5.6	+/-50
bis(2-Ethylhexyl)phthalate	A	5.0000	4.9	0.4442323	0.4327024		-2.6	+/-50
Di-n-Octylphthalate	A	5.0000	4.3	0.9601702	0.8245230		-14.1	+/-50
Benzofluoranthenes, Total	A	10.000	10.9	1.2153330	1.3219910		8.8	+/-50
Benzo(a)pyrene	A	5.0000	5.0	1.0450150	1.0478520		0.3	+/-50
Indeno(1,2,3-cd)pyrene	A	5.0000	2.6	1.1879490	0.6106120		-48.6	+/-50
Dibenzo(a,h)anthracene	A	5.0000	2.7	1.0094890	0.5545234		-45.1	+/-50
Benzo(g,h,i)perylene	A	5.0000	2.1	0.9951726	0.4142591		-58.4	+/-50
1-Methylnaphthalene	A	5.0000	4.8	0.6937882	0.6669162		-3.9	+/-50
2-Fluorophenol	A	7.5000	7.42	1.2814900	1.2675890		-1.1	+/-50

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123083.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	01/01/23
Lab Sample ID:	SKL0355-CCV1	Injection Time:	09:41
Sequence Name:	ABN 5		

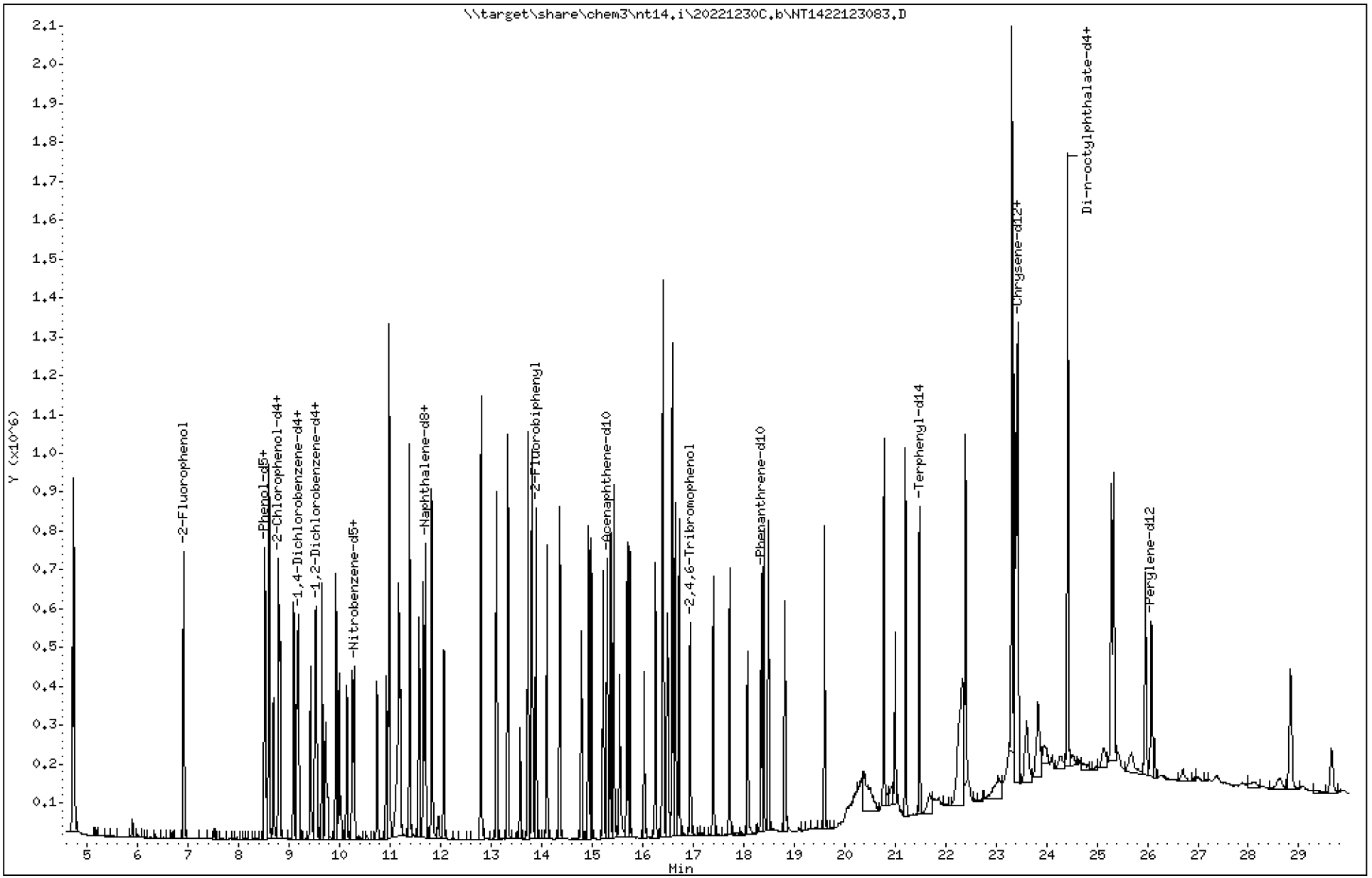
		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol-d5	A	7.5000	7.47	1.5836890	1.5763910		-0.5	+/-50
2-Chlorophenol-d4	A	7.5000	7.43	1.3300510	1.3175380		-0.9	+/-50
1,2-Dichlorobenzene-d4	A	5.0000	4.70	0.9090592	0.8543946		-6.0	+/-50
Nitrobenzene-d5	A	5.0000	5.26	0.3377760	0.3550974		5.1	+/-50
2-Fluorobiphenyl	A	5.0000	4.66	1.3448860	1.2542170		-6.7	+/-50
2,4,6-Tribromophenol	A	7.5000	6.74	0.1844845	0.1746731		-10.1	+/-50
p-Terphenyl-d14	A	5.0000	4.28	0.9601842	0.8214505		-14.4	+/-50

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123083.D
Date : 01-JAN-2023 09:41
Client ID:
Sample Info: SKL0355-CCV1

Instrument: nt14.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

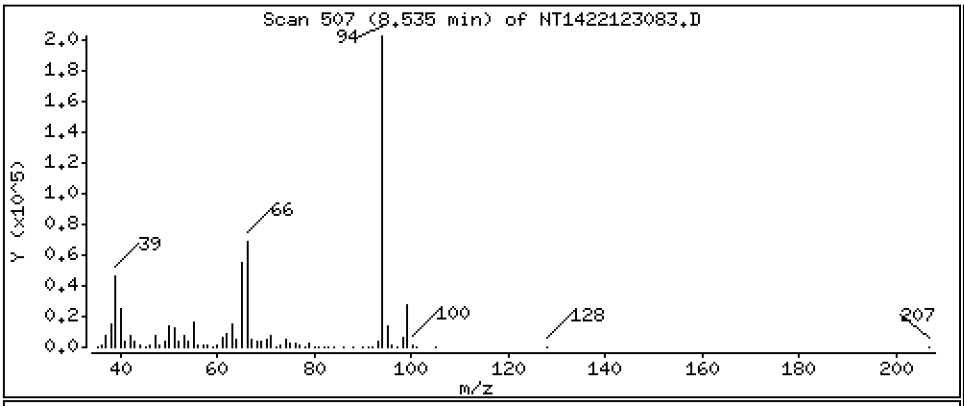
Operator: VTS

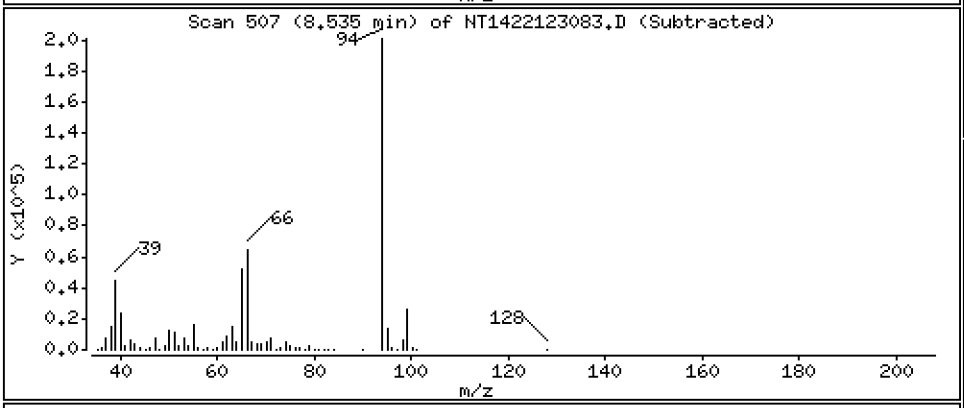
Column phase: ZB-5msi

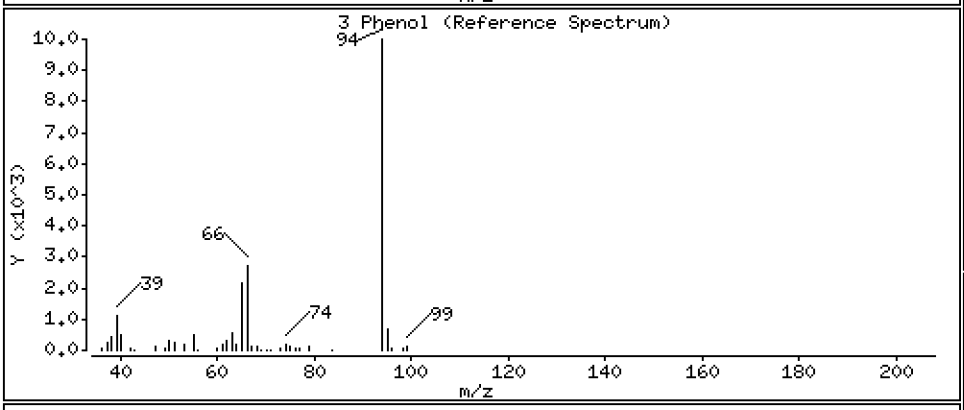
Column diameter: 0.25

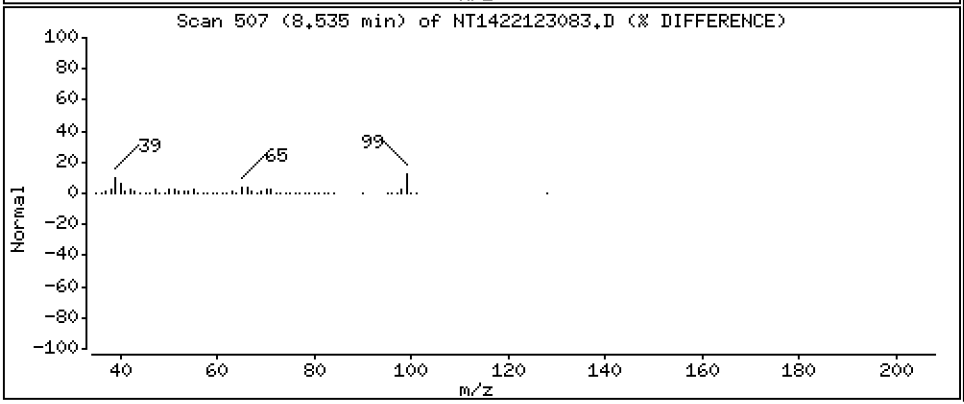
3 Phenol

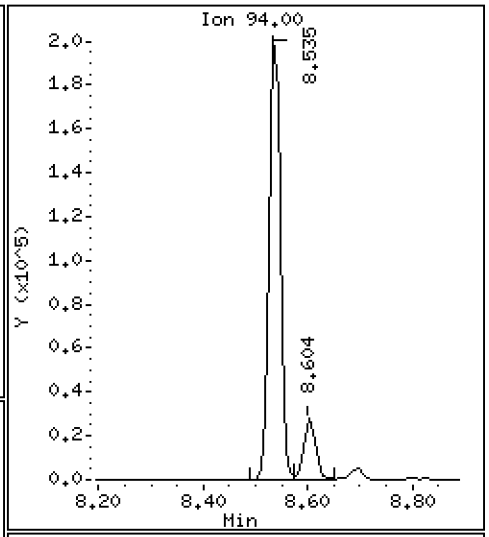
Concentration: 4.649 ug/mL

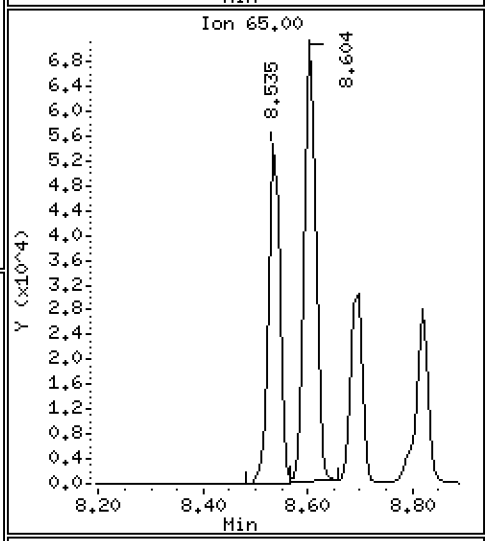


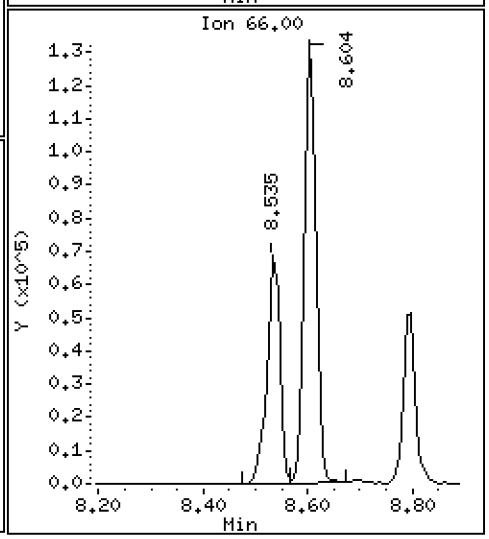












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123083.D

Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

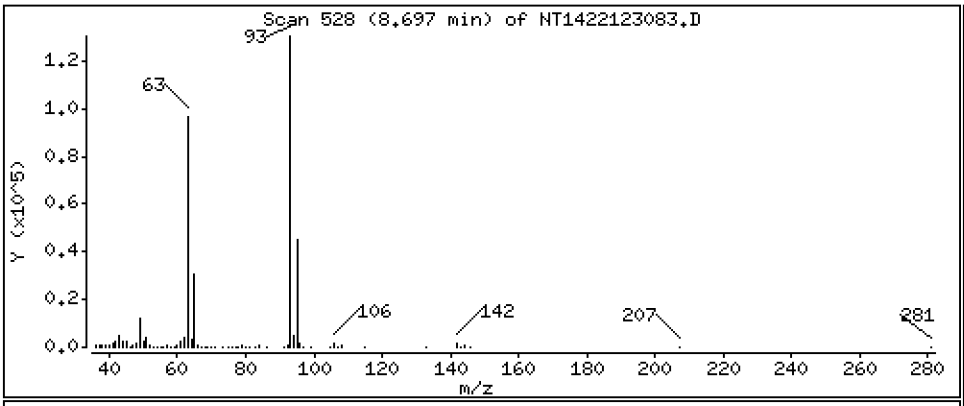
Operator: VTS

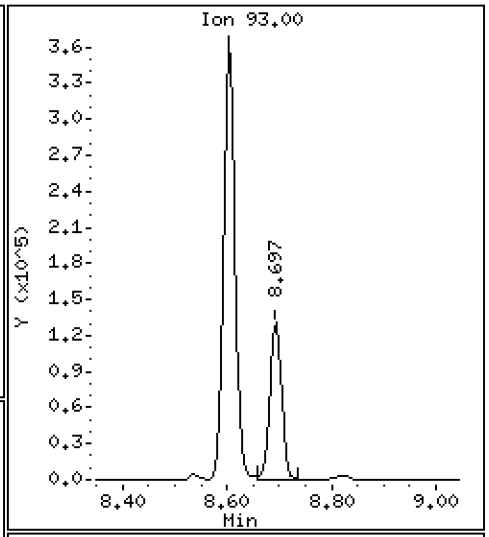
Column phase: ZB-5msi

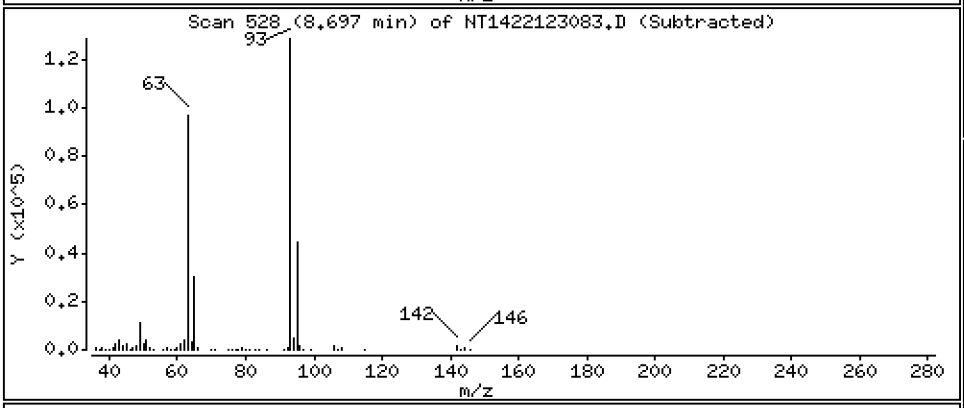
Column diameter: 0.25

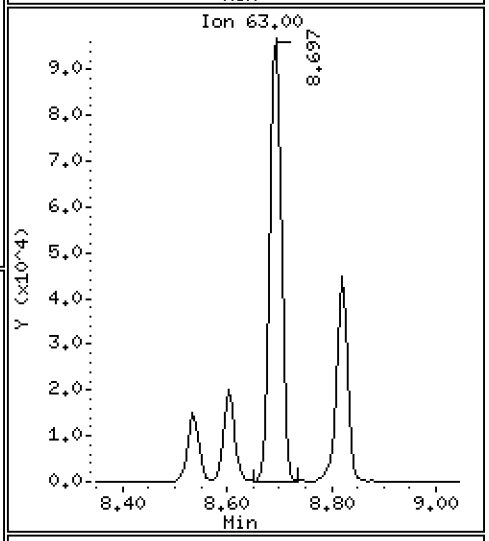
4 Bis(2-Chloroethyl)ether

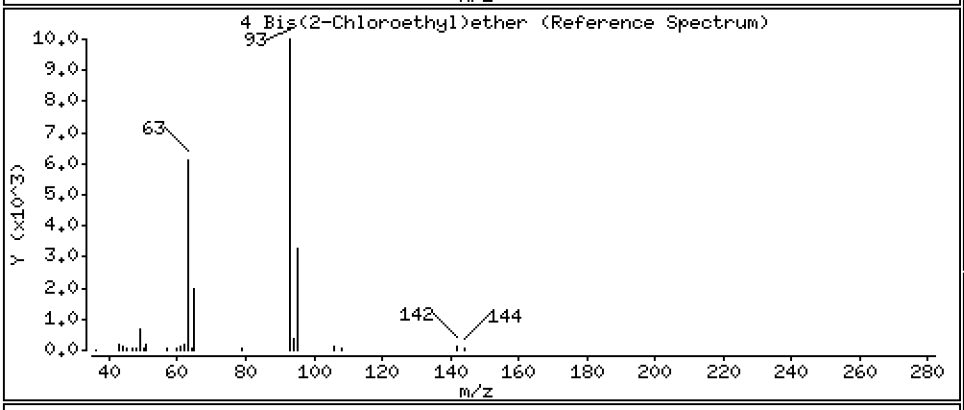
Concentration: 4.579 ug/mL

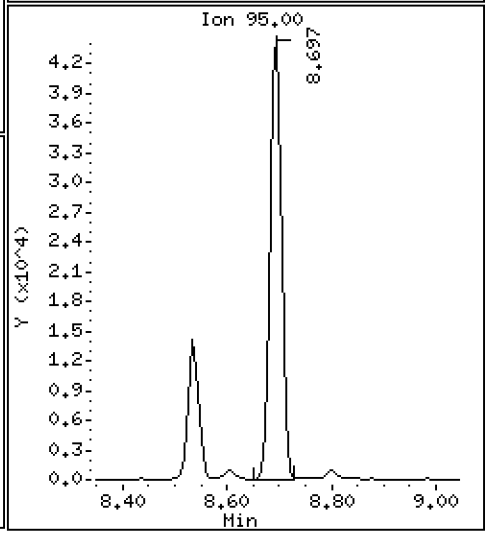


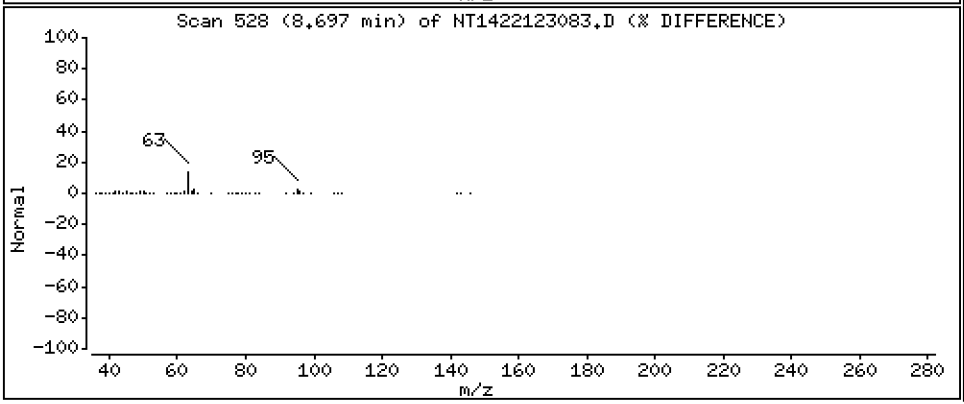












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

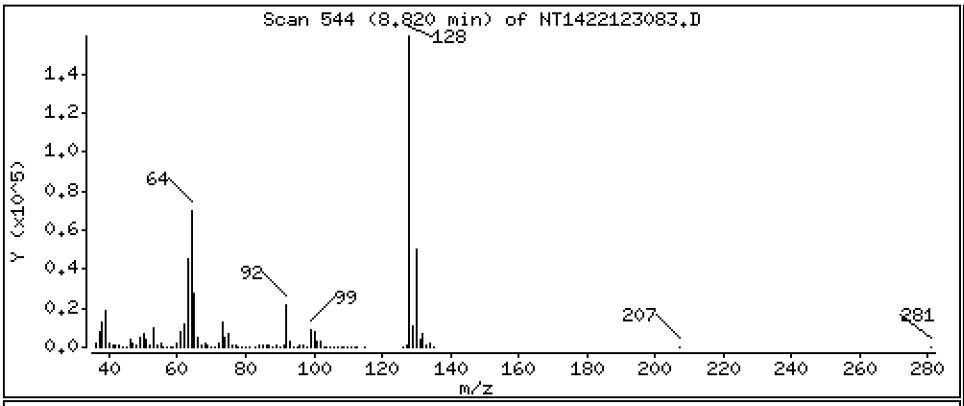
Operator: VTS

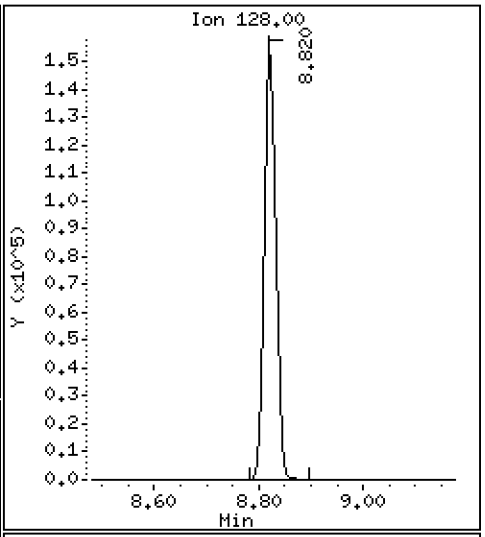
Column phase: ZB-5msi

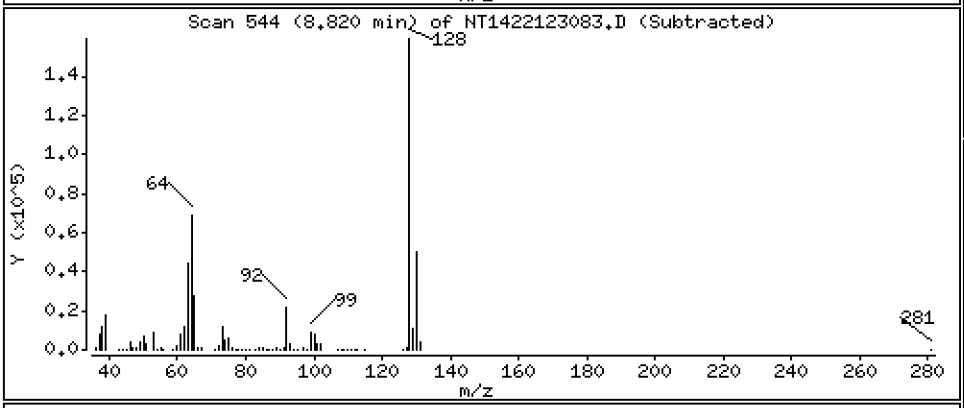
Column diameter: 0.25

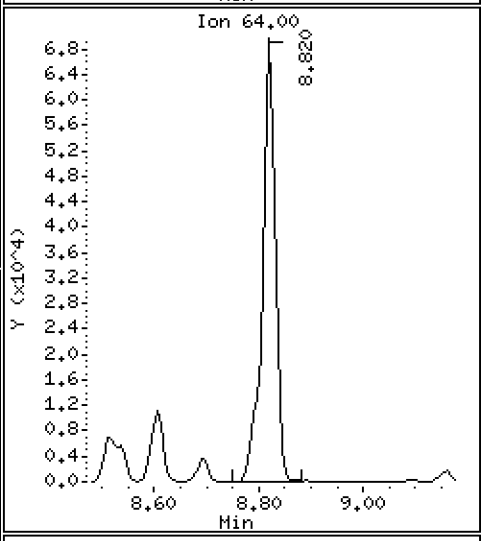
6 2-Chlorophenol

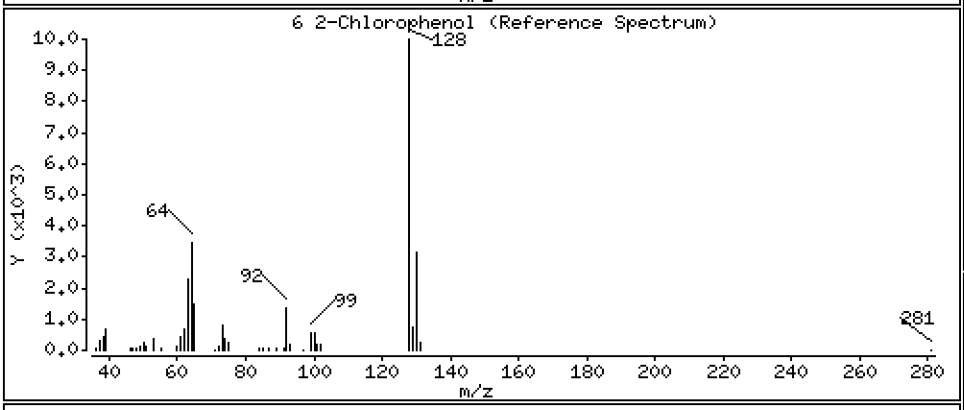
Concentration: 4.708 ug/mL

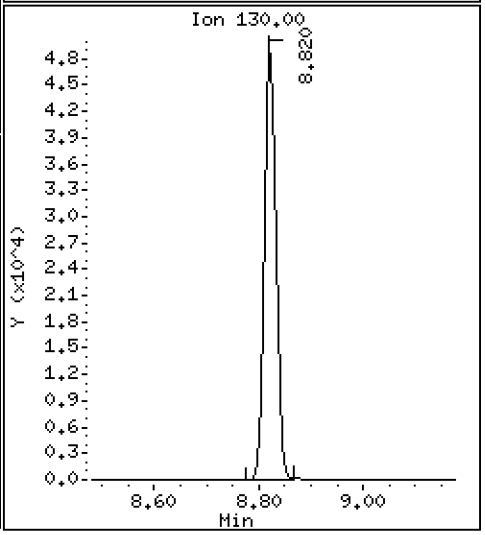


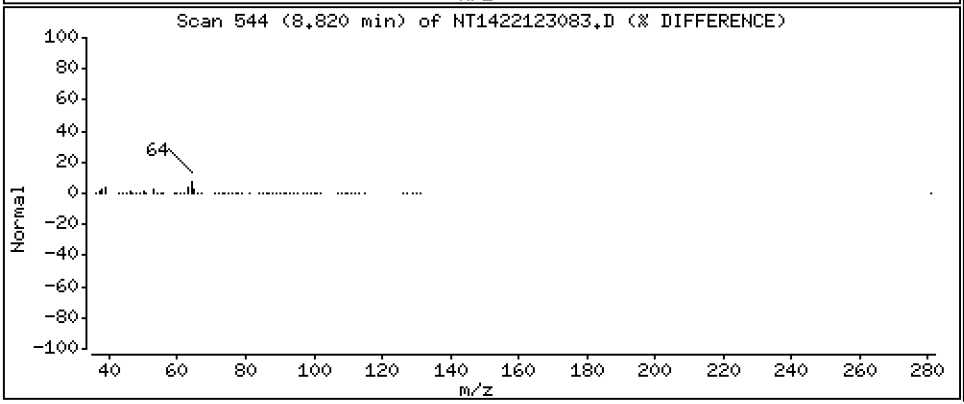












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

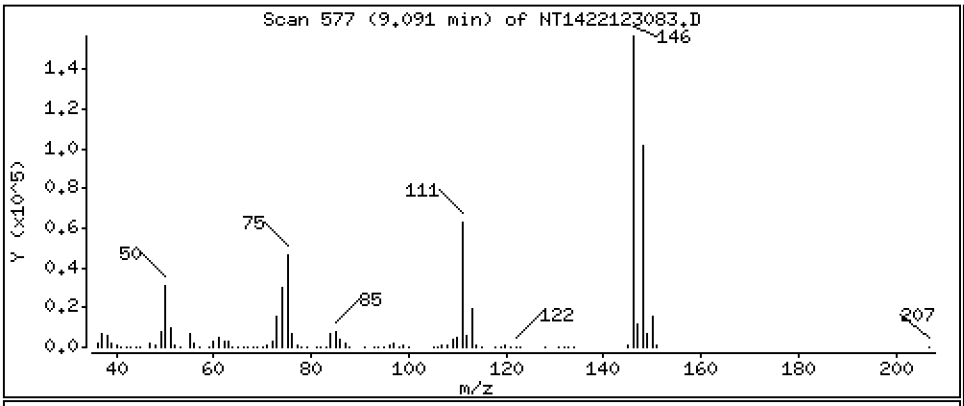
Operator: VTS

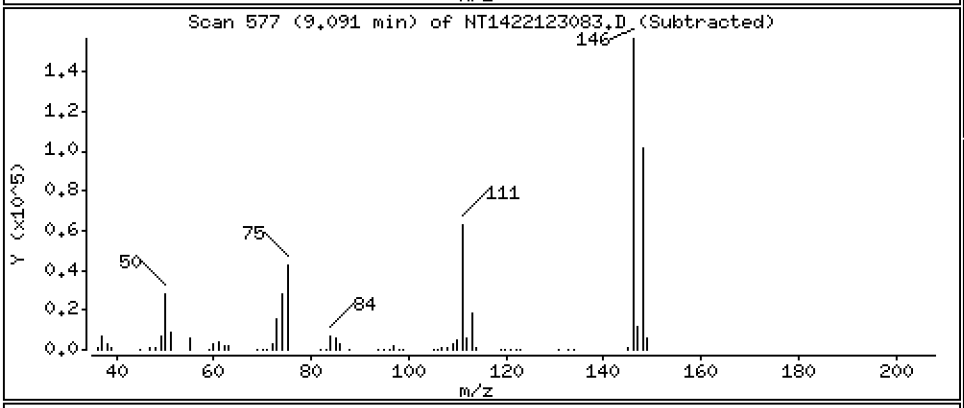
Column phase: ZB-5msi

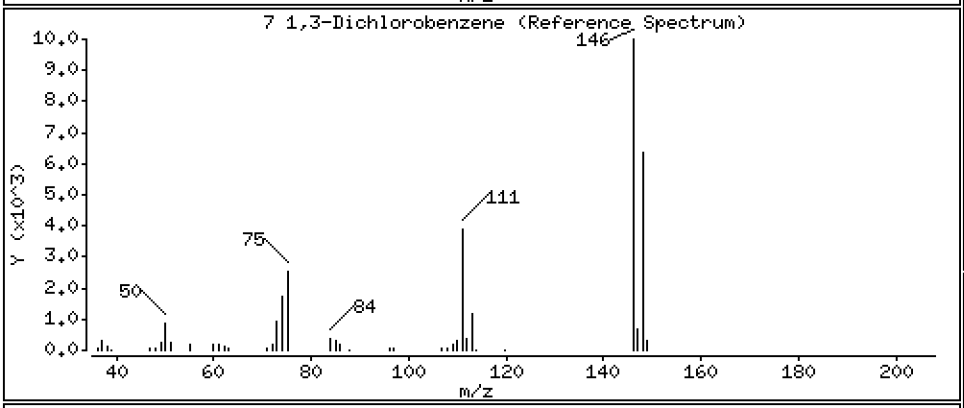
Column diameter: 0.25

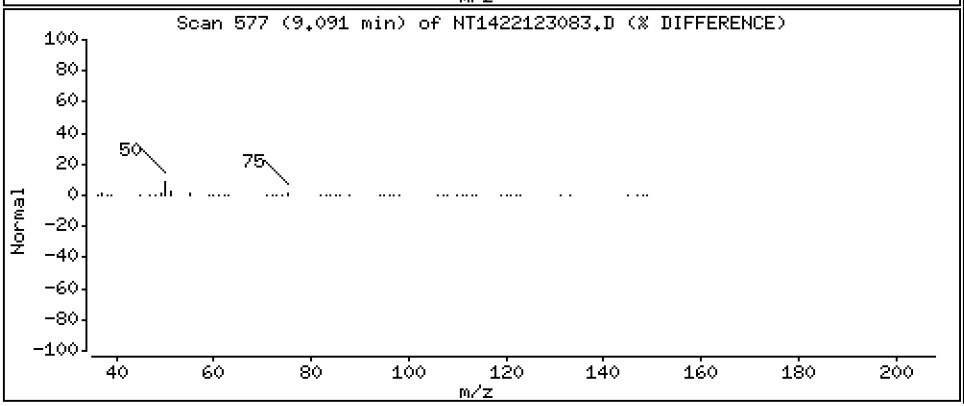
7 1,3-Dichlorobenzene

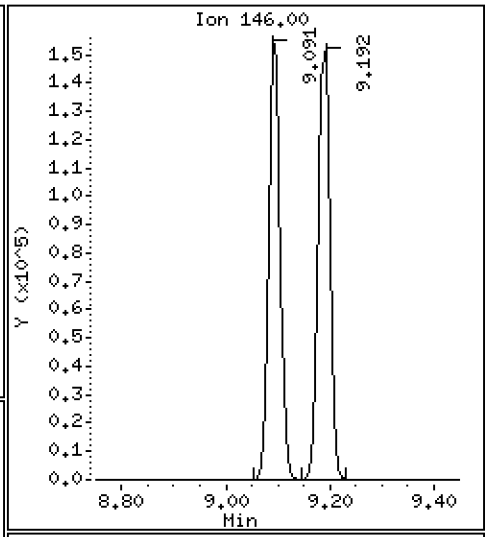
Concentration: 4.597 ug/mL

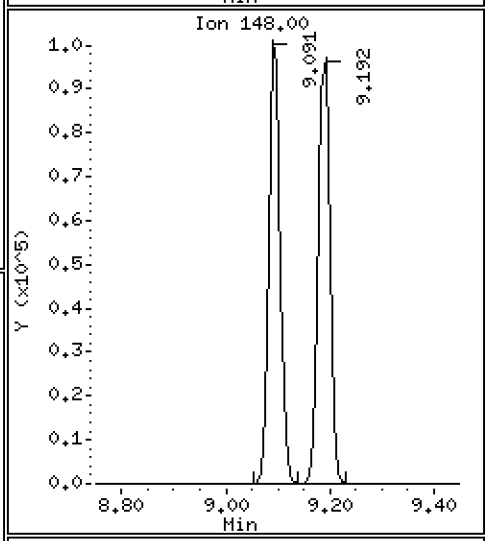


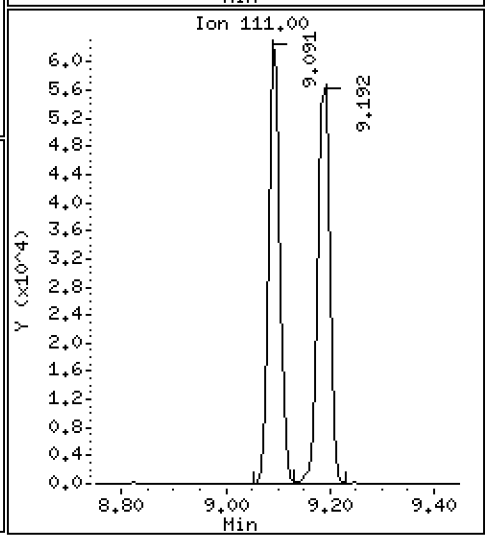












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

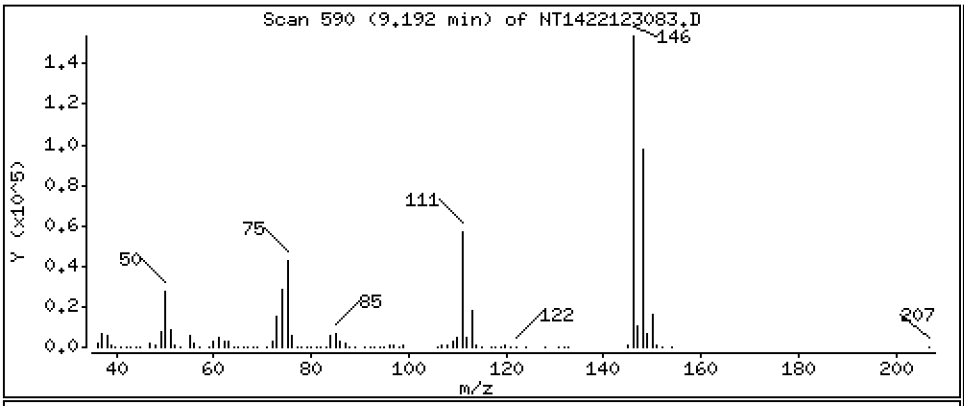
Operator: VTS

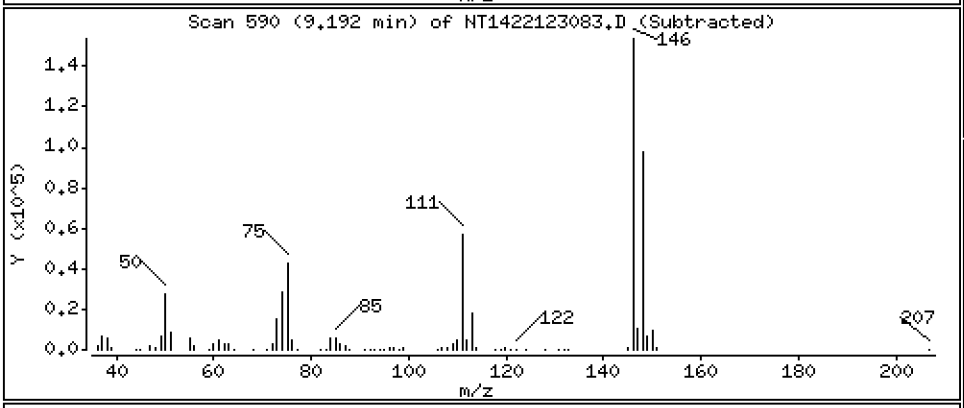
Column phase: ZB-5msi

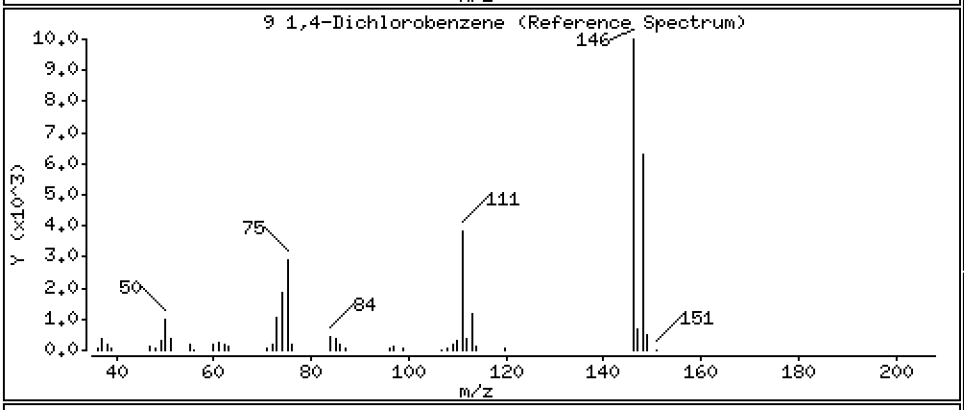
Column diameter: 0.25

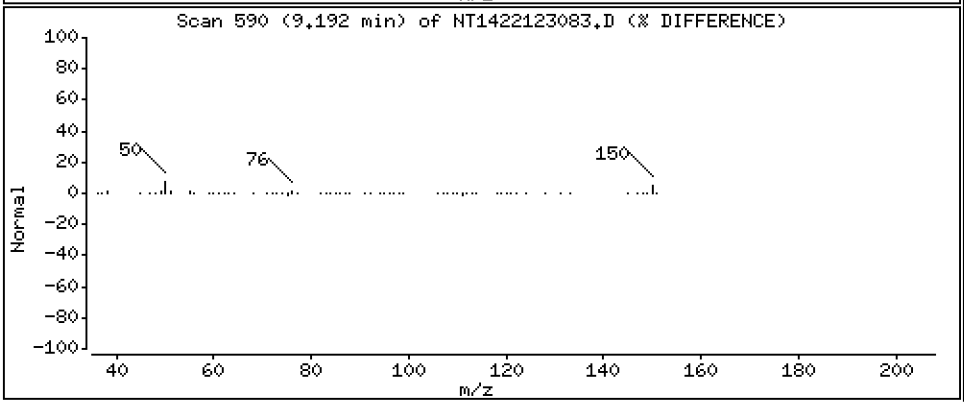
9 1,4-Dichlorobenzene

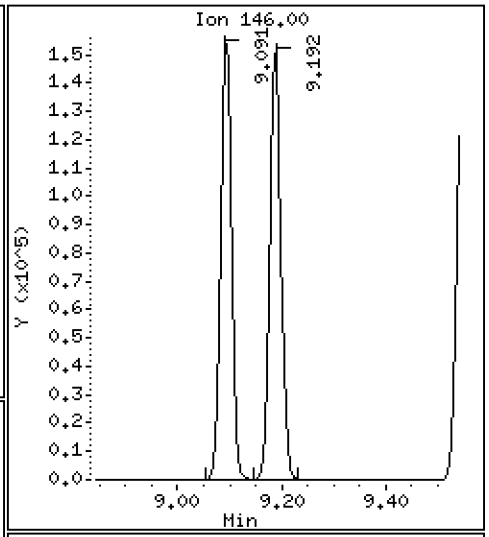
Concentration: 4.587 ug/mL

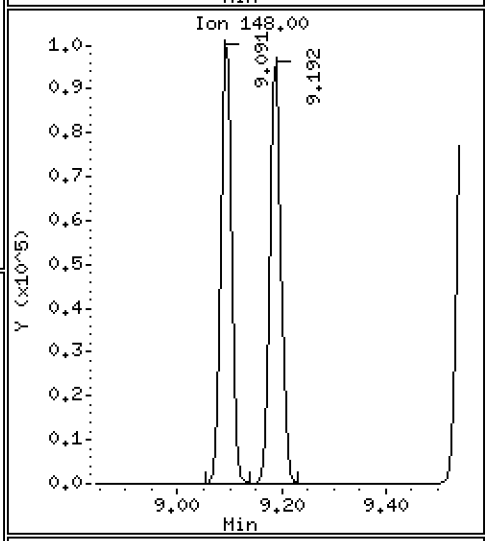


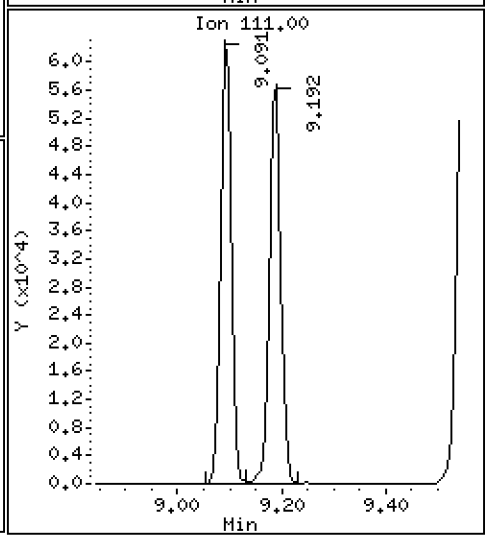












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

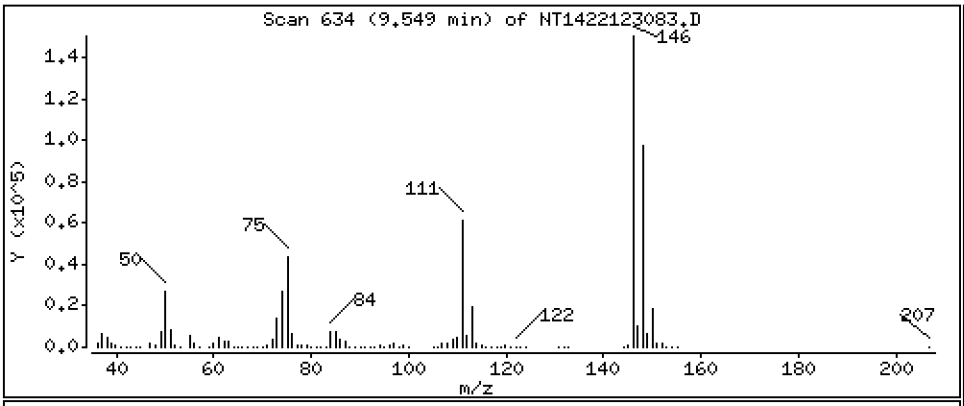
Operator: VTS

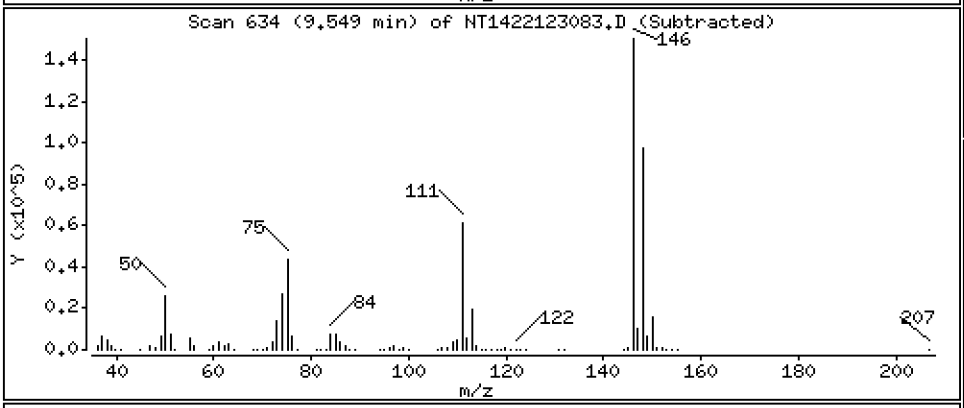
Column phase: ZB-5msi

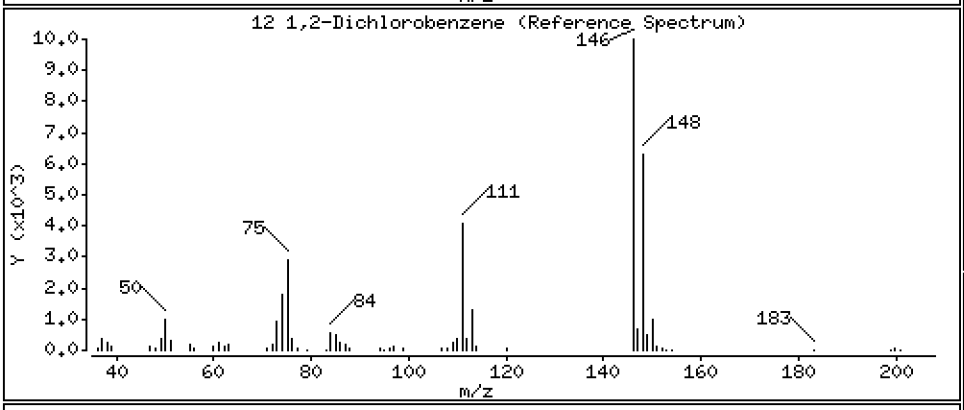
Column diameter: 0.25

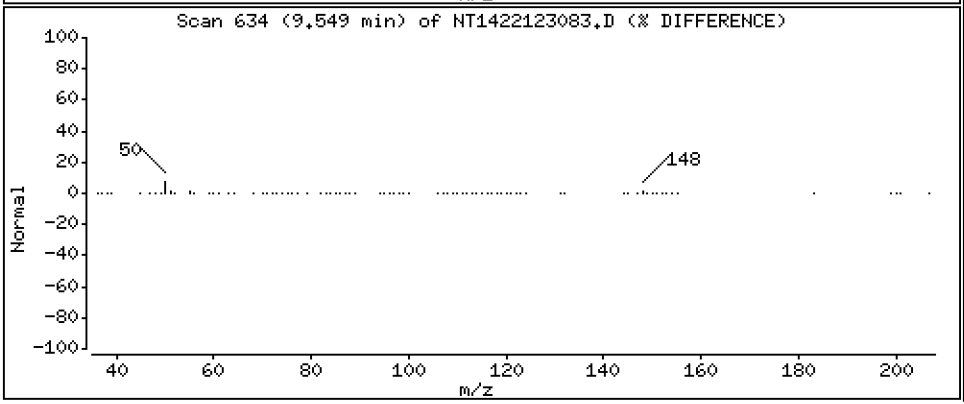
12 1,2-Dichlorobenzene

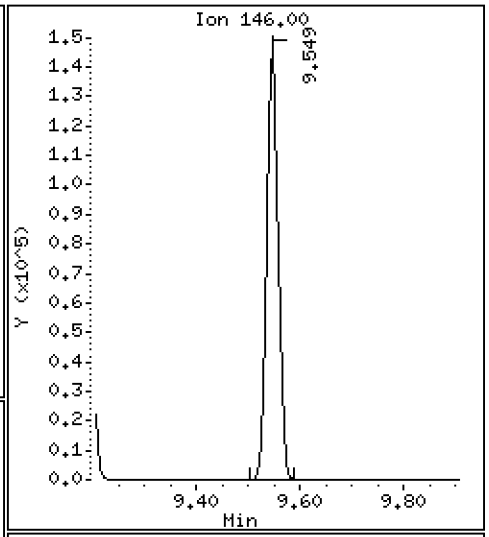
Concentration: 4.592 ug/mL

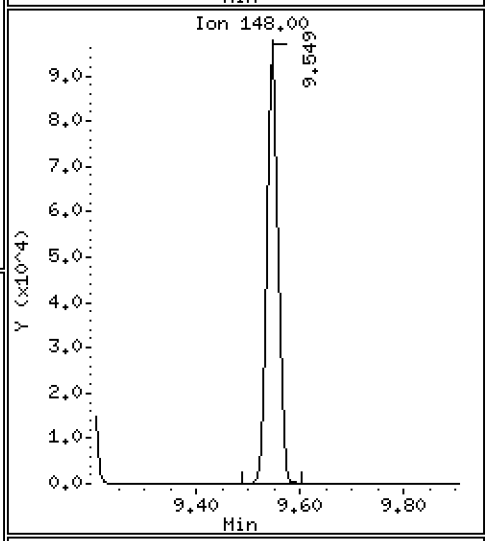


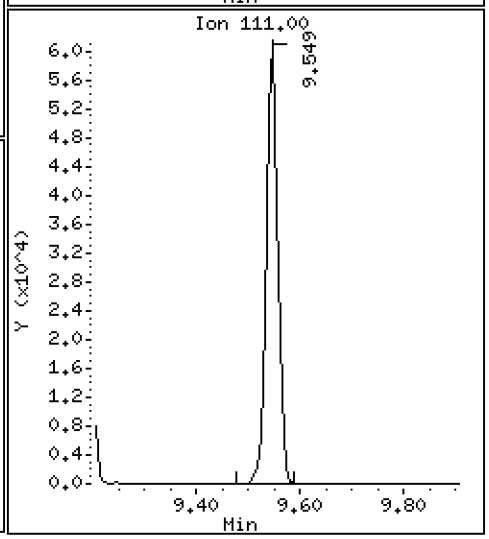












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

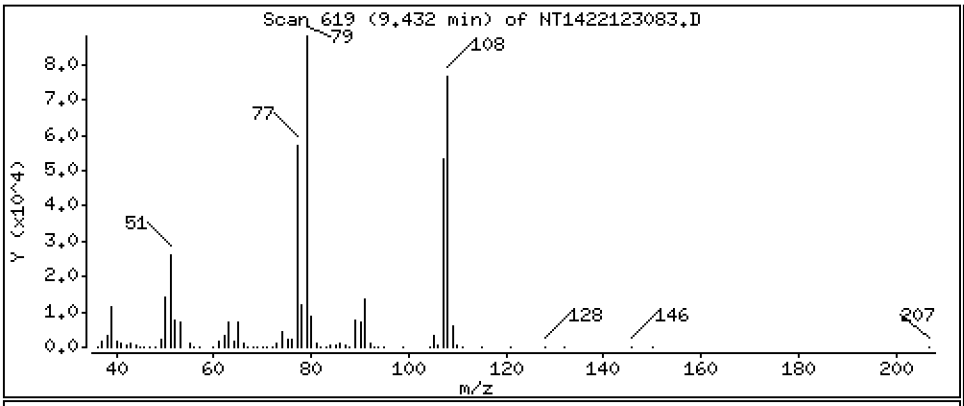
Operator: VTS

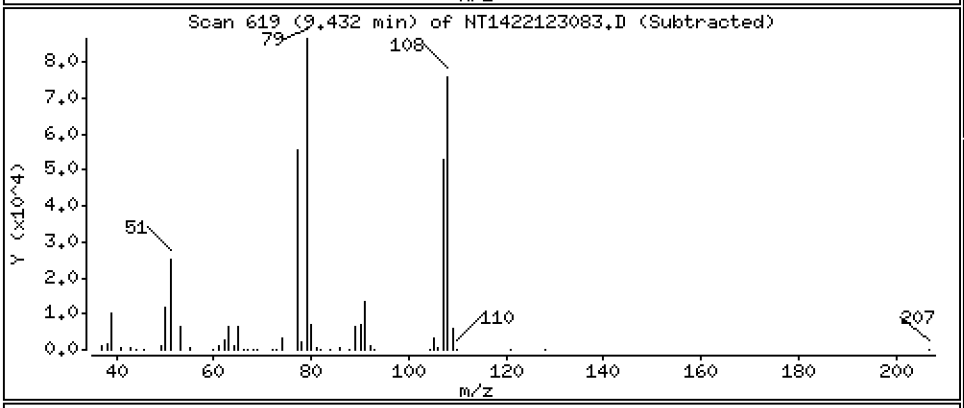
Column phase: ZB-5msi

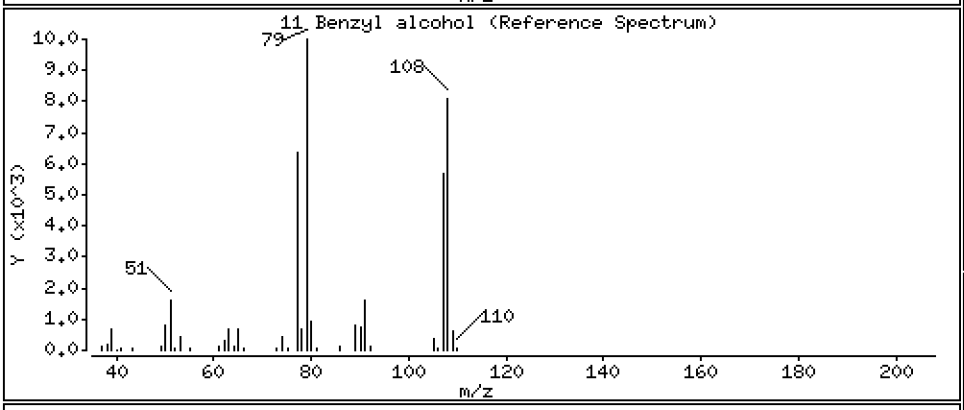
Column diameter: 0.25

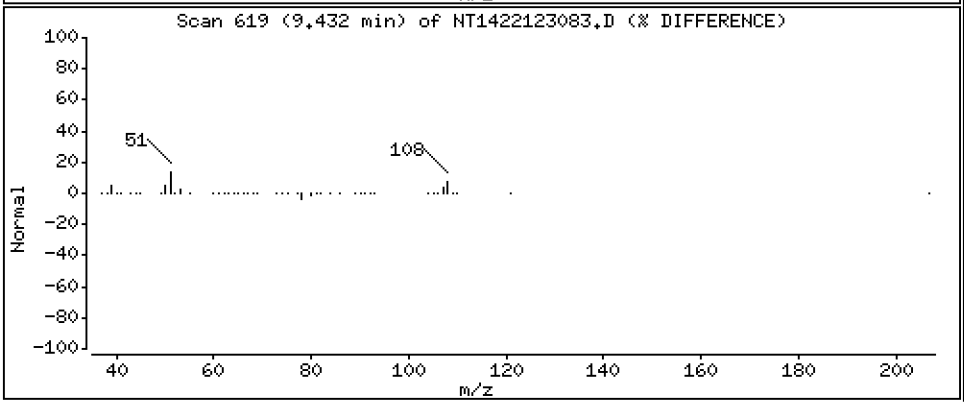
11 Benzyl alcohol

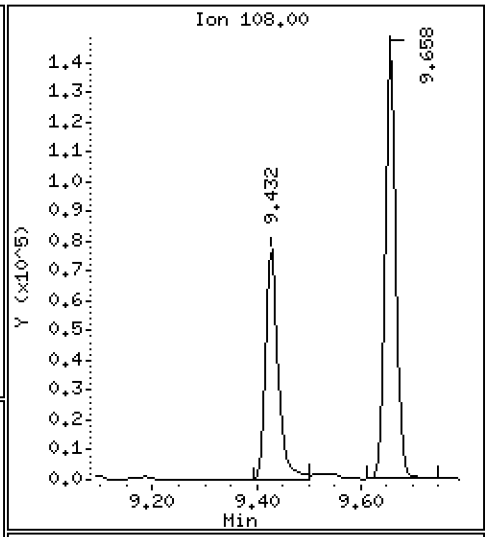
Concentration: 4.860 ug/mL

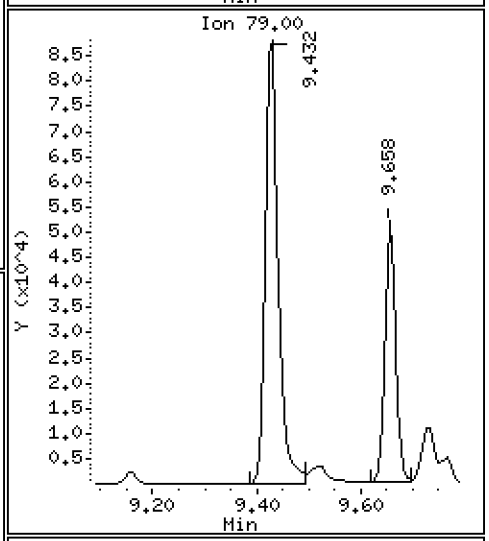


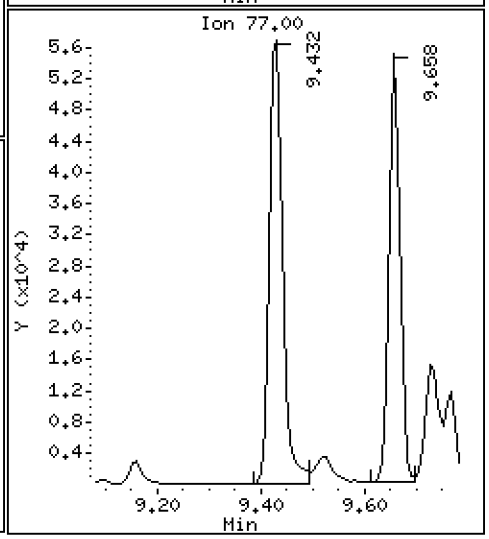












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

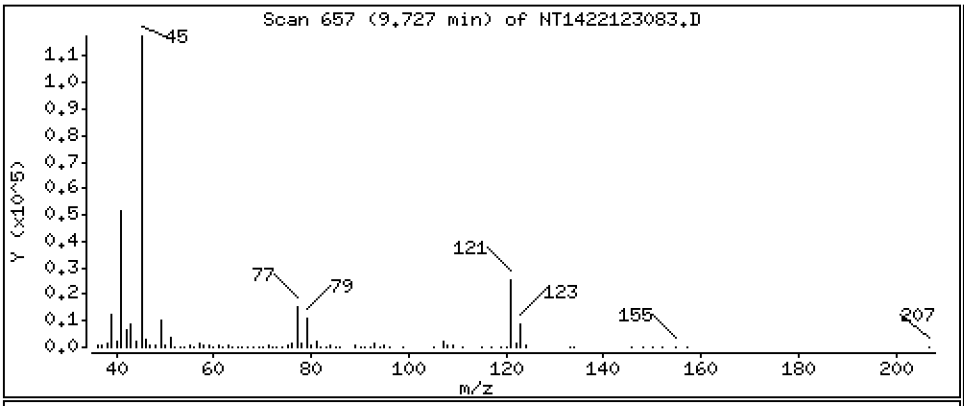
Operator: VTS

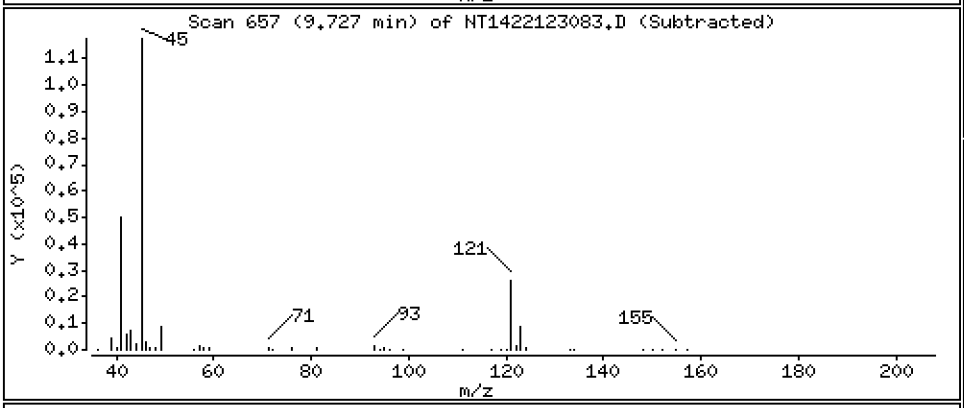
Column phase: ZB-5msi

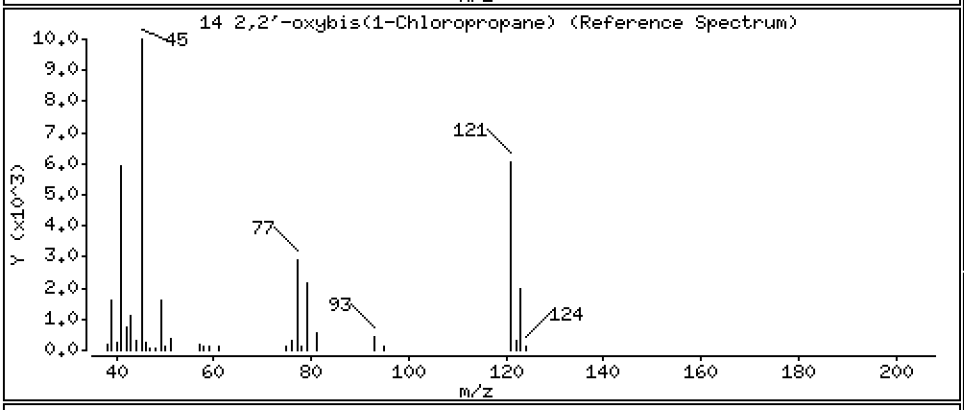
Column diameter: 0.25

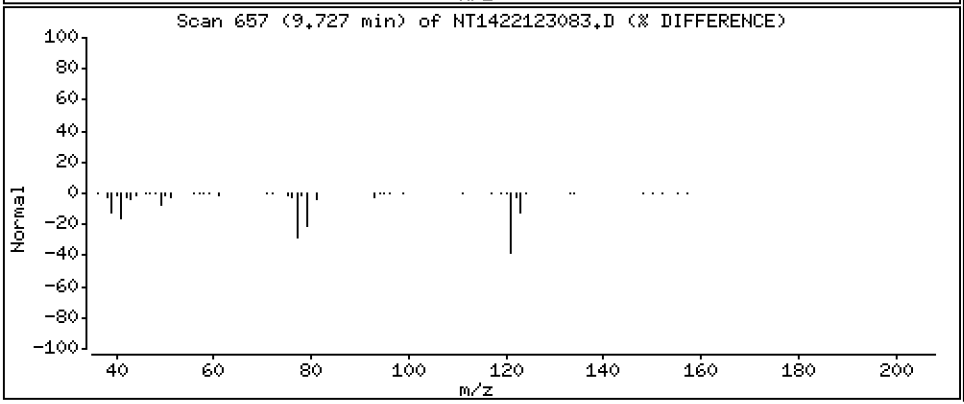
14 2,2'-oxybis(1-Chloropropane)

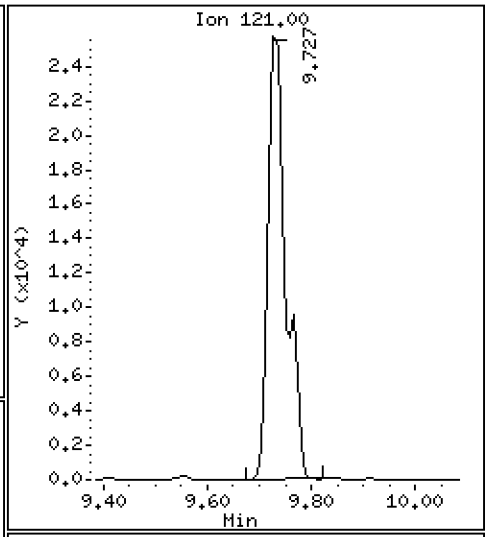
Concentration: 4.295 ug/mL

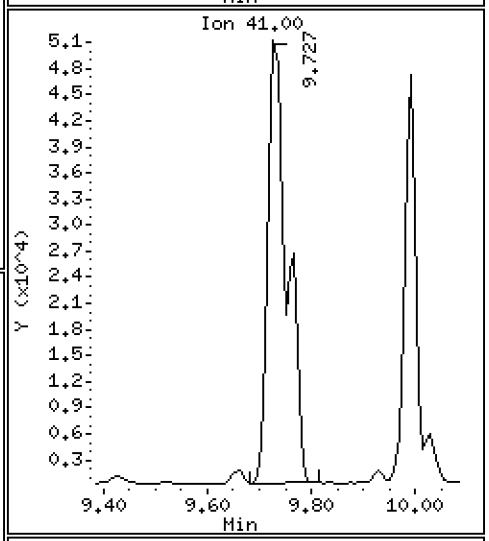


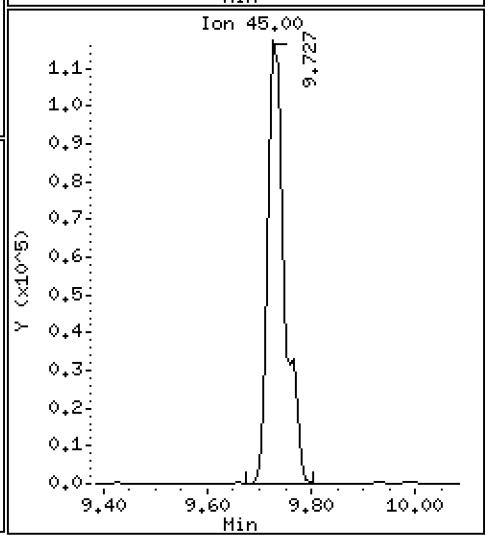












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

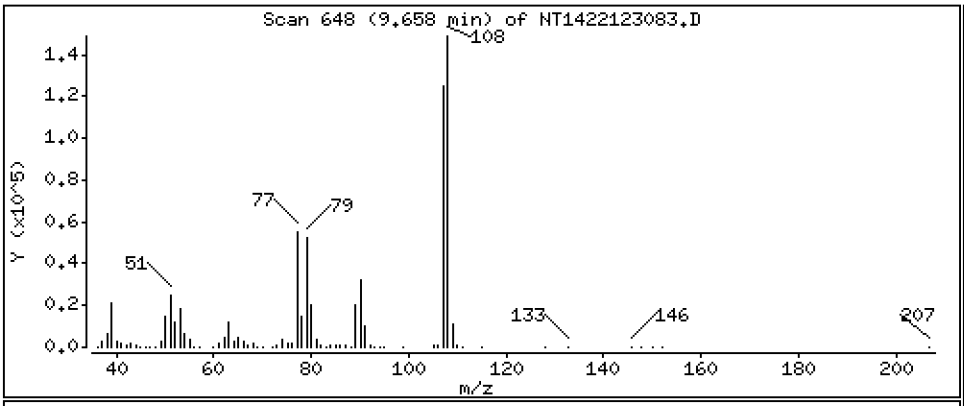
Operator: VTS

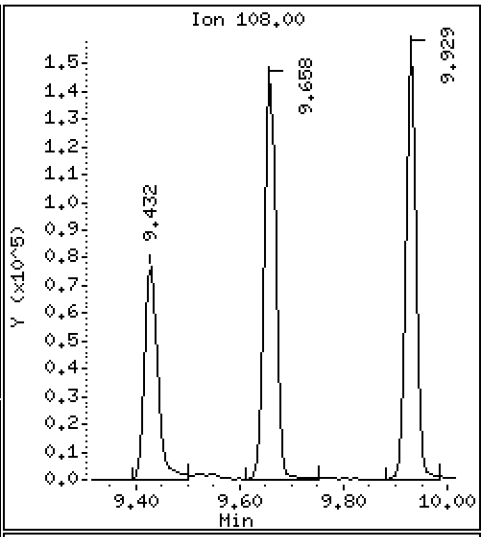
Column phase: ZB-5msi

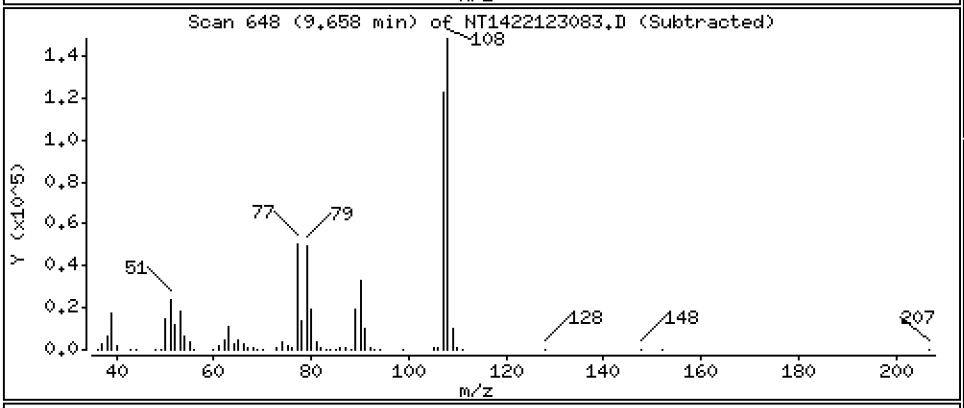
Column diameter: 0.25

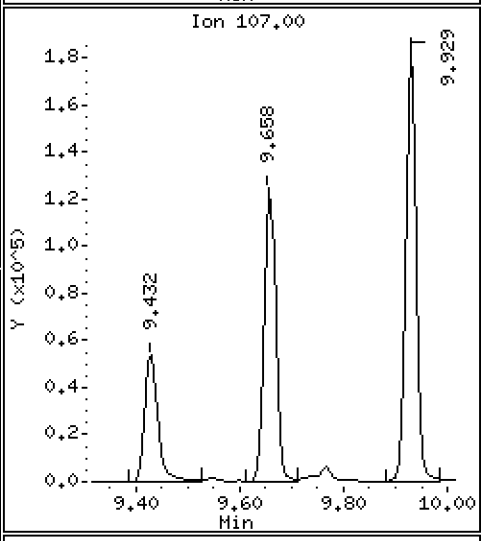
13 2-Methylphenol

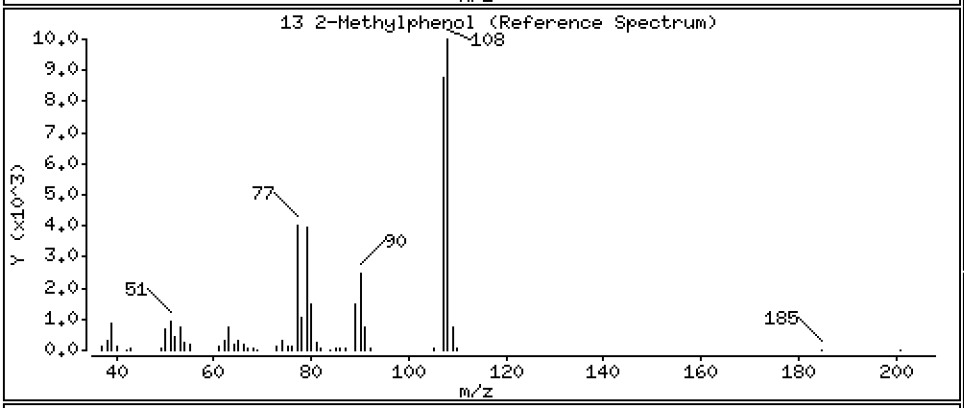
Concentration: 4.796 ug/mL

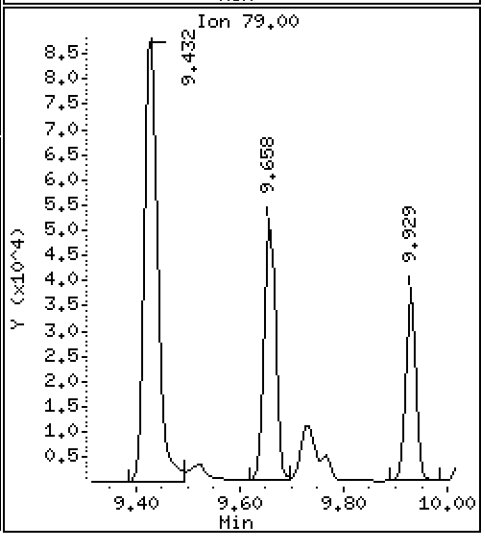


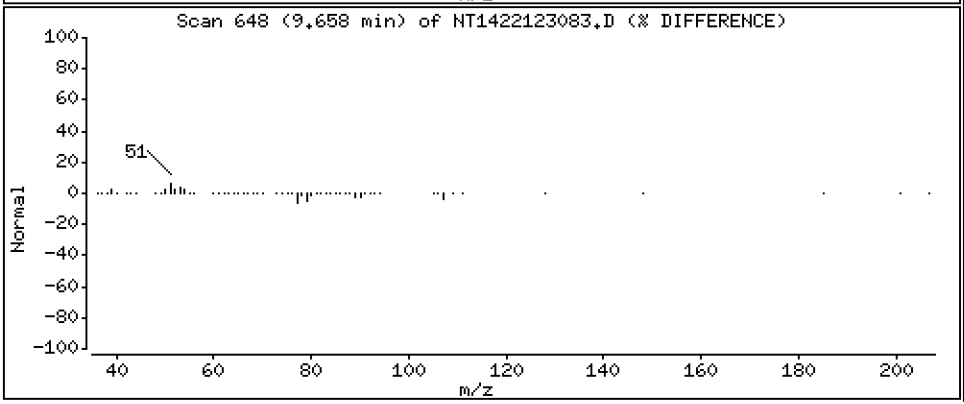












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

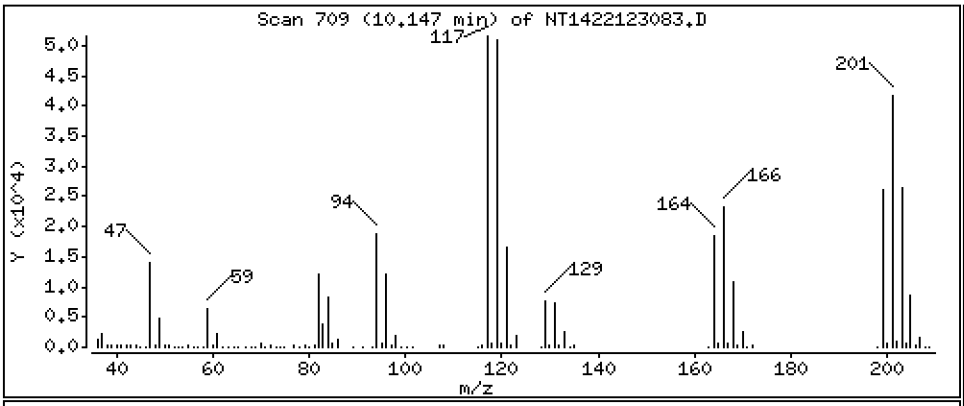
Operator: VTS

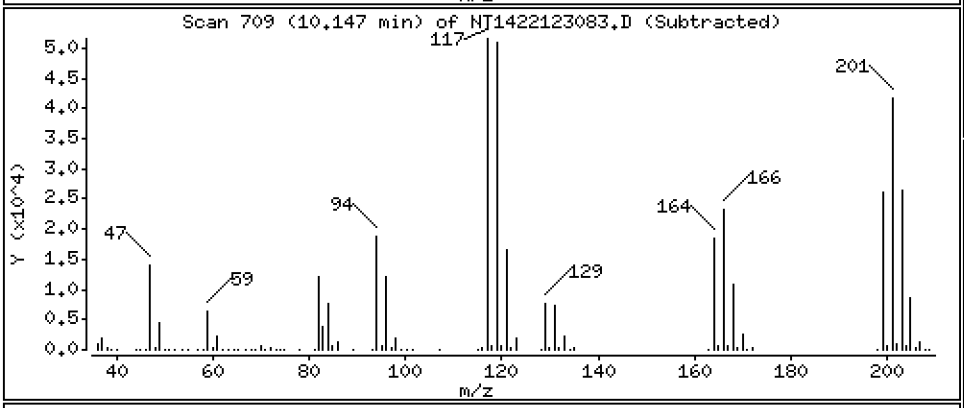
Column phase: ZB-5msi

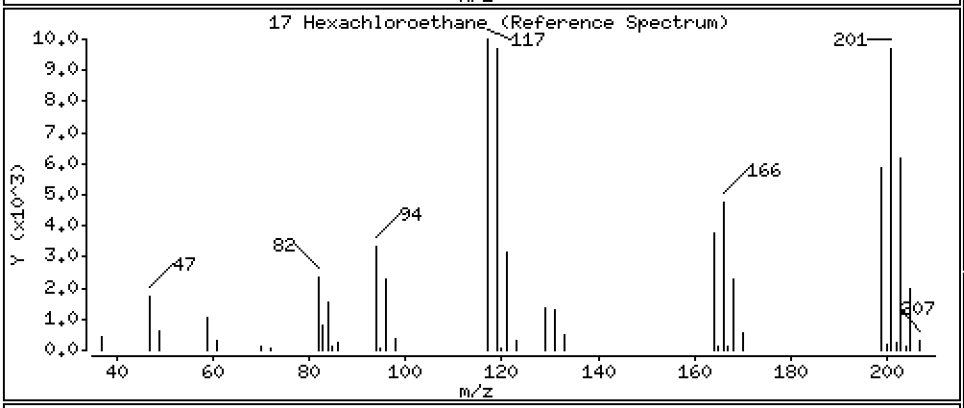
Column diameter: 0.25

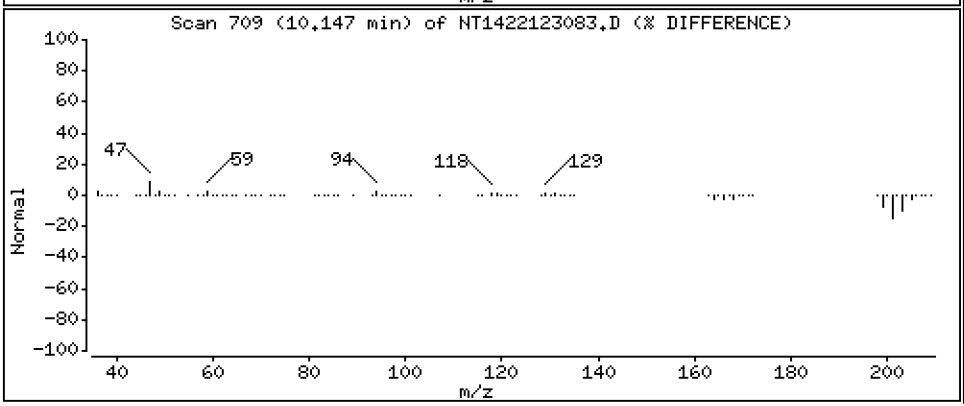
17 Hexachloroethane

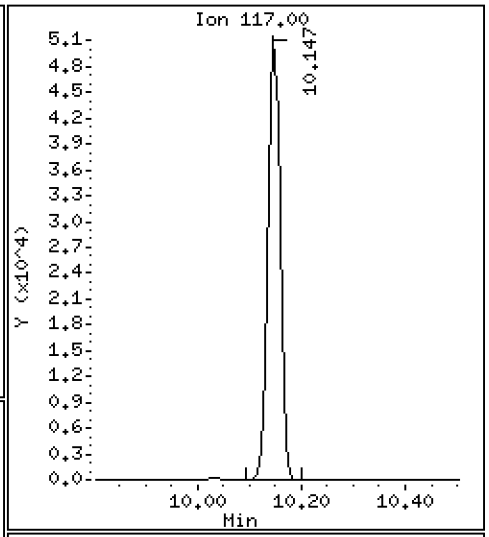
Concentration: 4.373 ug/mL

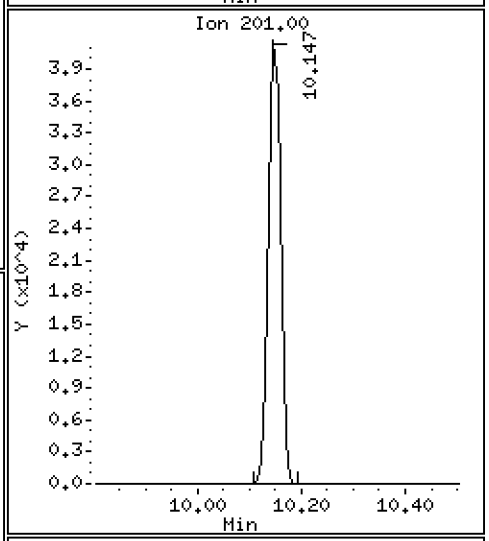


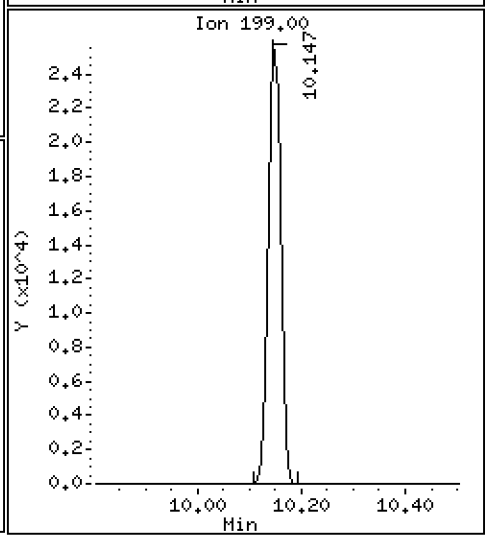












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

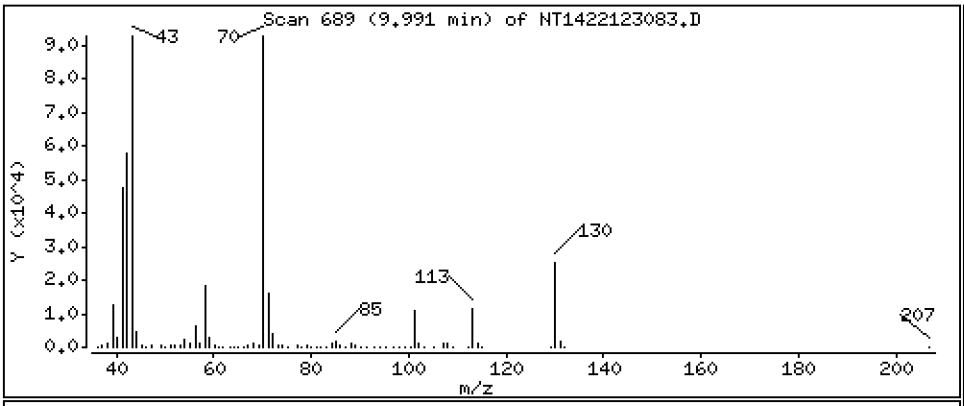
Operator: VTS

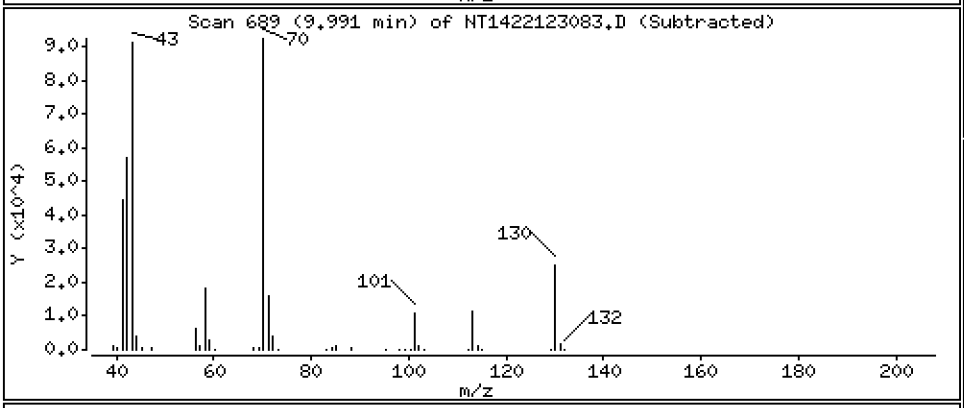
Column phase: ZB-5msi

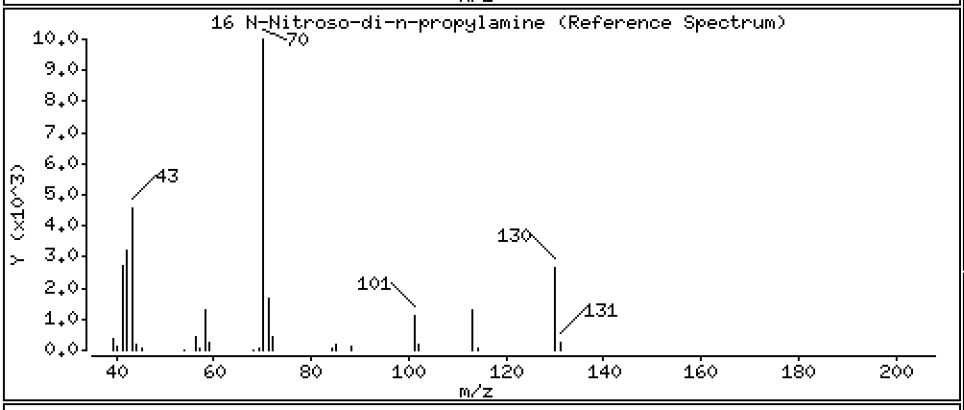
Column diameter: 0.25

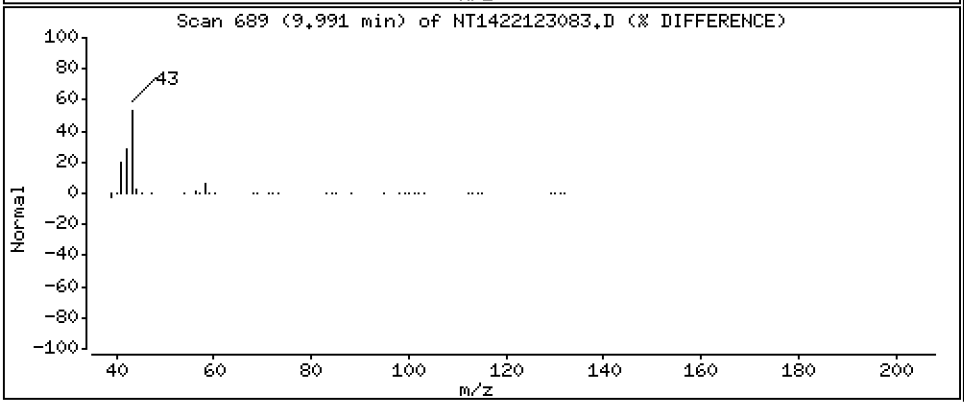
16 N-Nitroso-di-n-propylamine

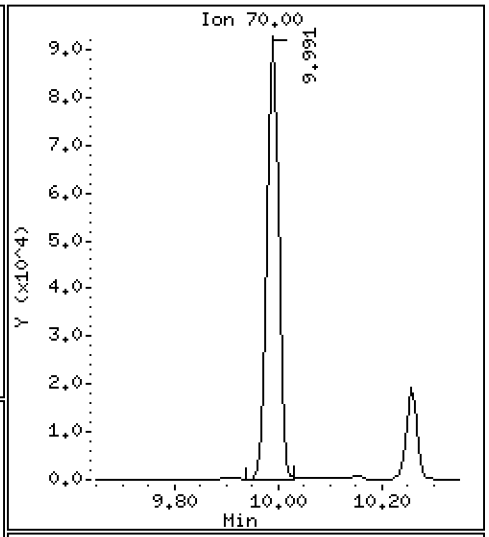
Concentration: 5.142 ug/mL

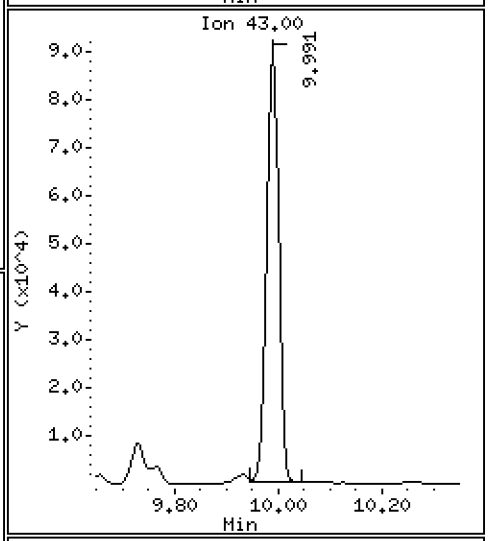


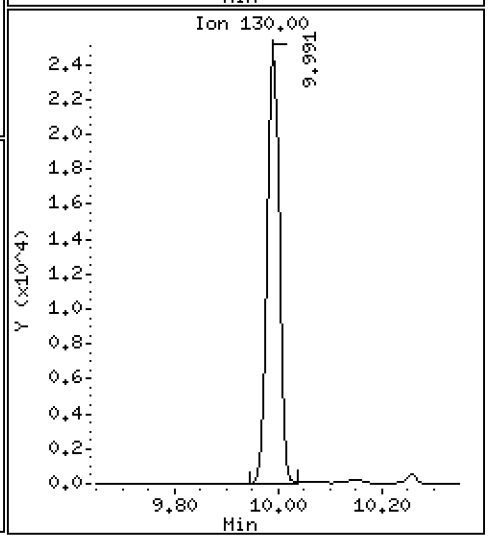












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

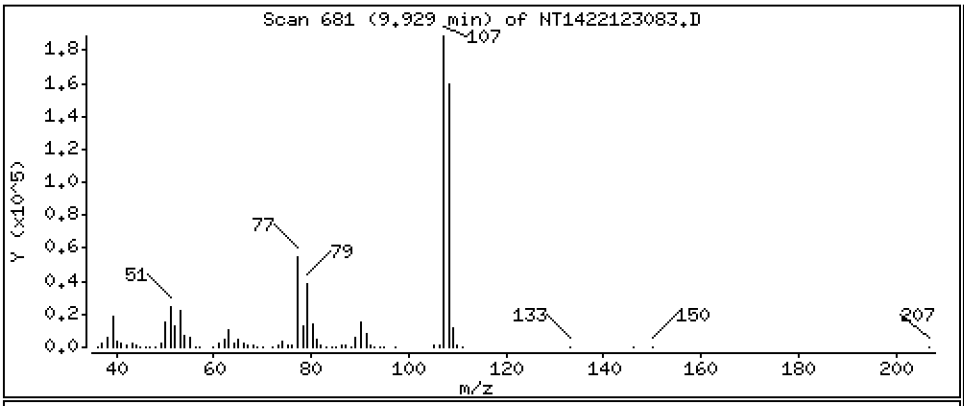
Operator: VTS

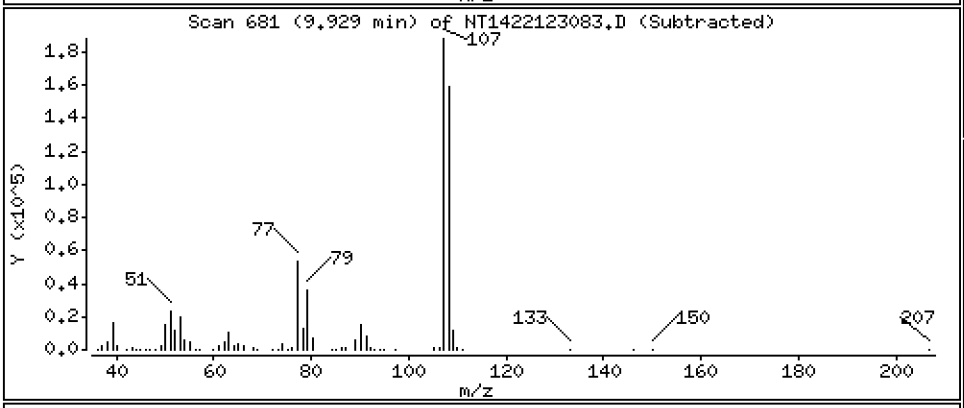
Column phase: ZB-5msi

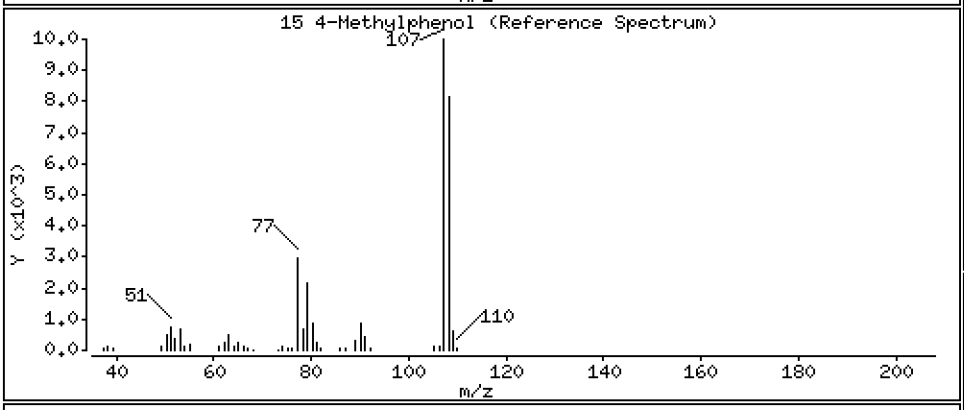
Column diameter: 0.25

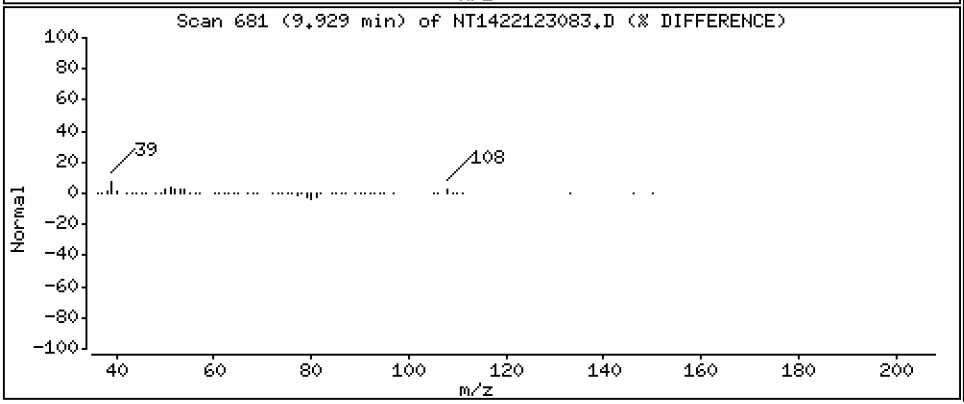
15 4-Methylphenol

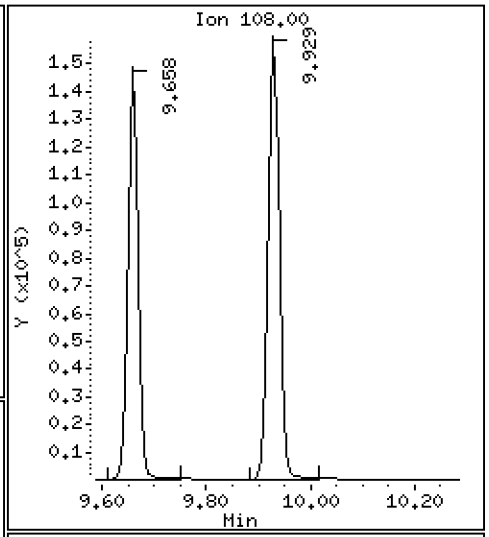
Concentration: 4.878 ug/mL

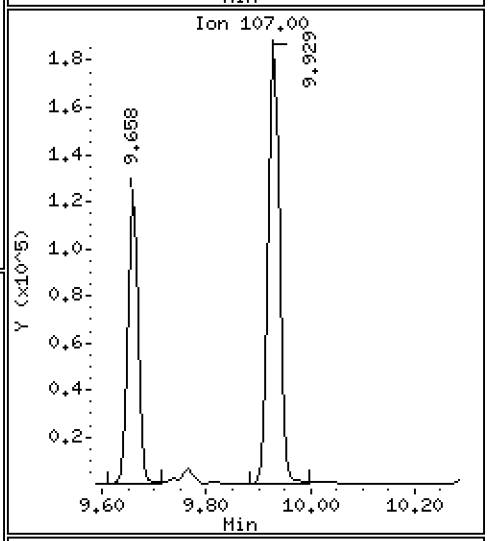


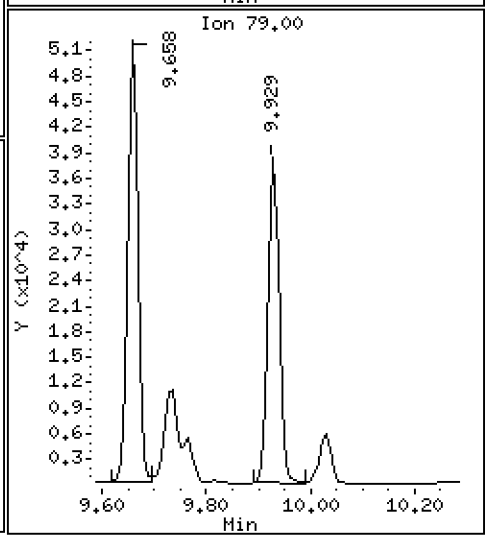












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

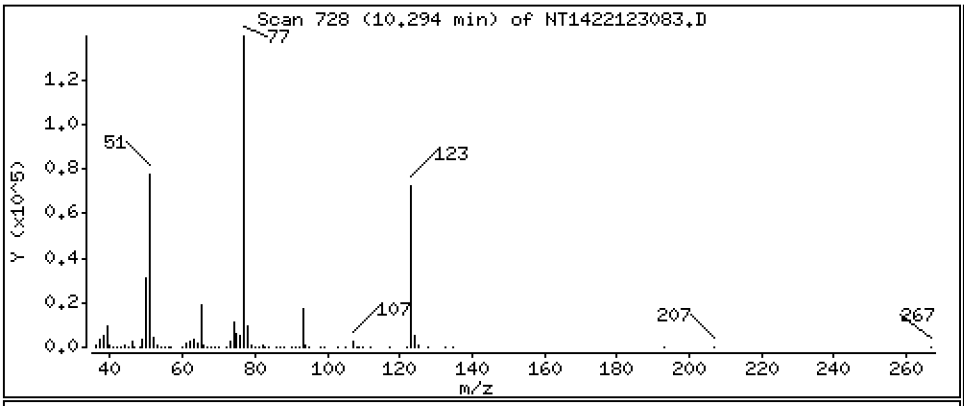
Operator: VTS

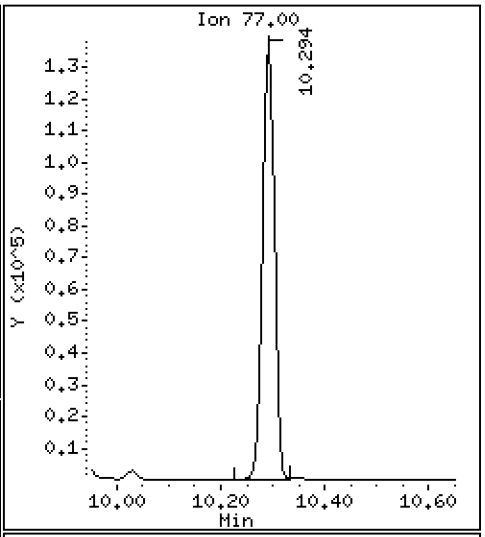
Column phase: ZB-5msi

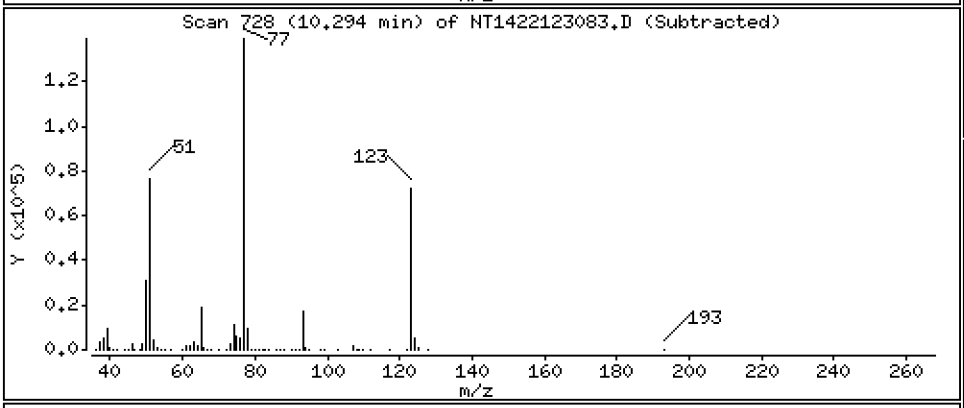
Column diameter: 0.25

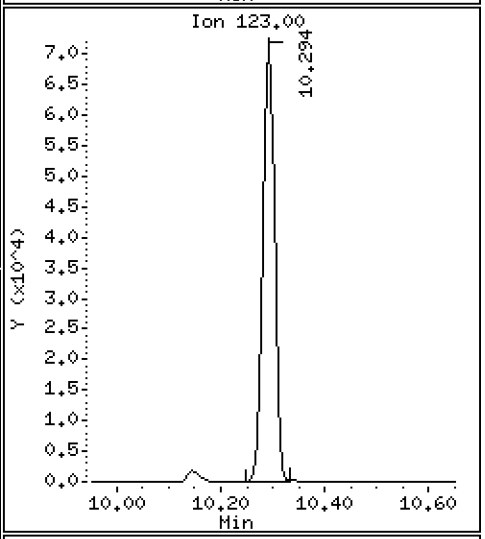
19 Nitrobenzene

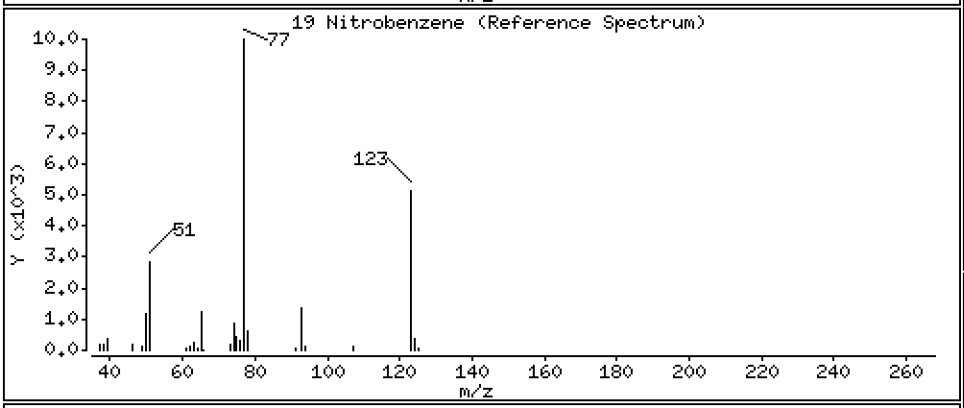
Concentration: 4.958 ug/mL

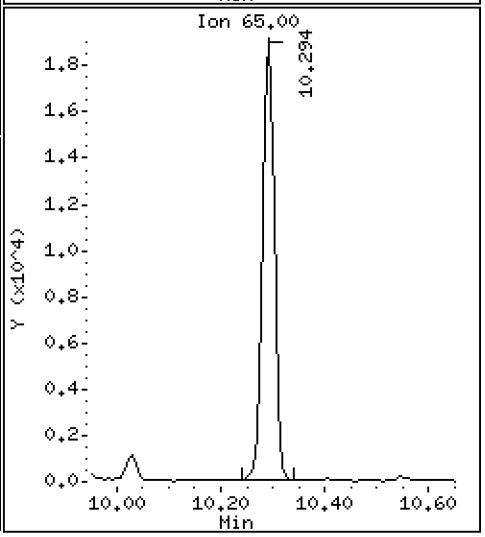


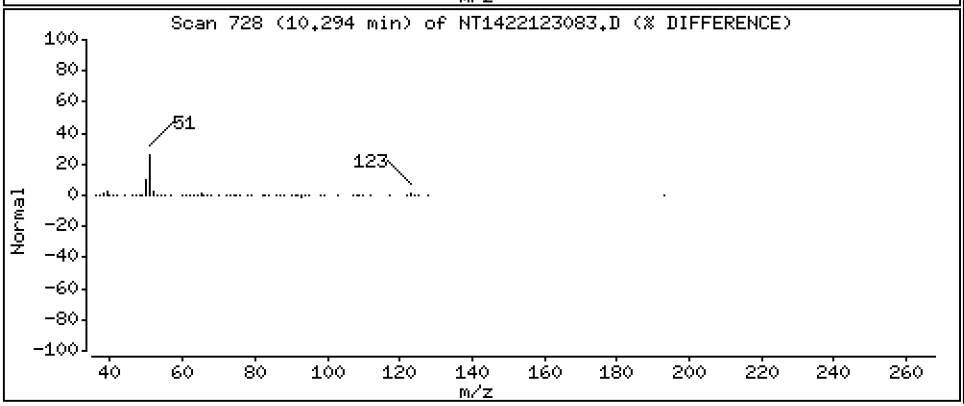












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

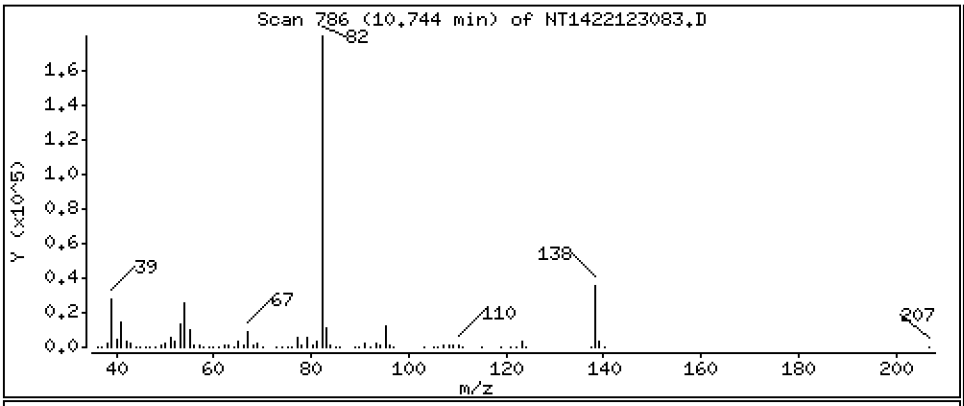
Operator: VTS

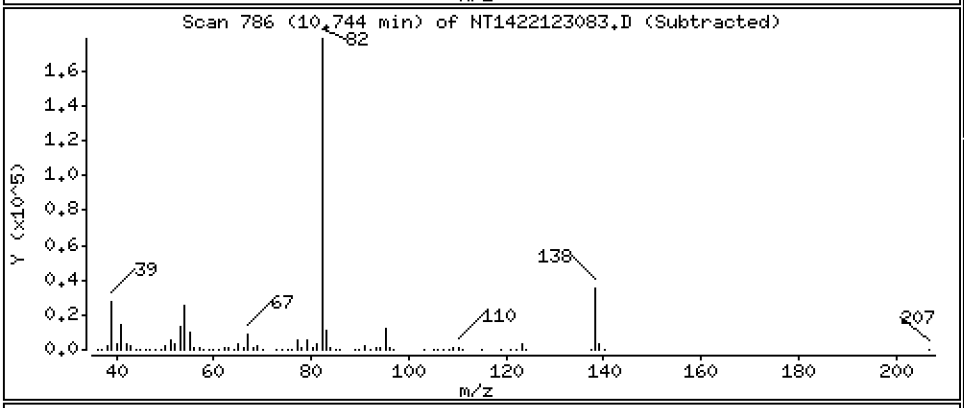
Column phase: ZB-5msi

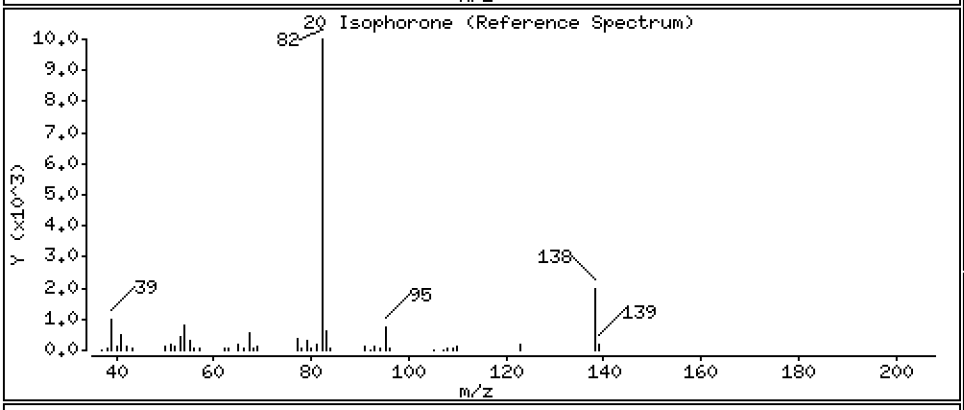
Column diameter: 0.25

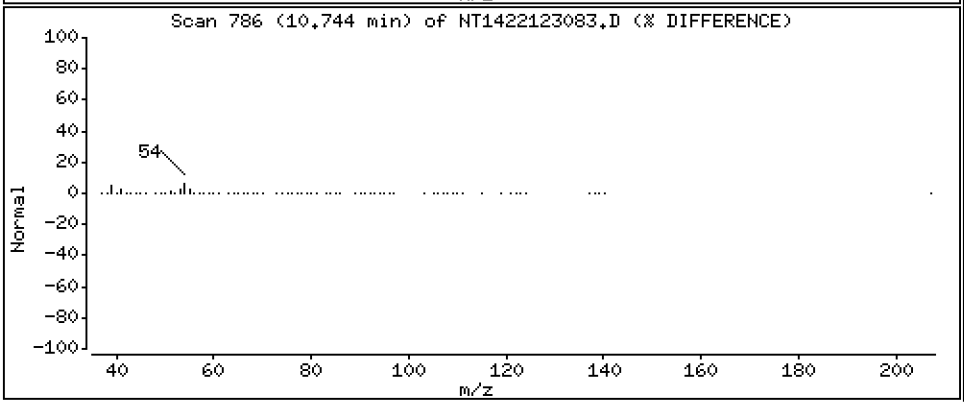
20 Isophorone

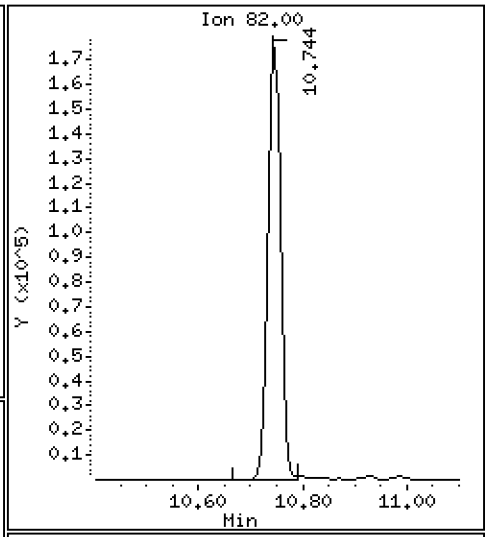
Concentration: 5.332 ug/mL

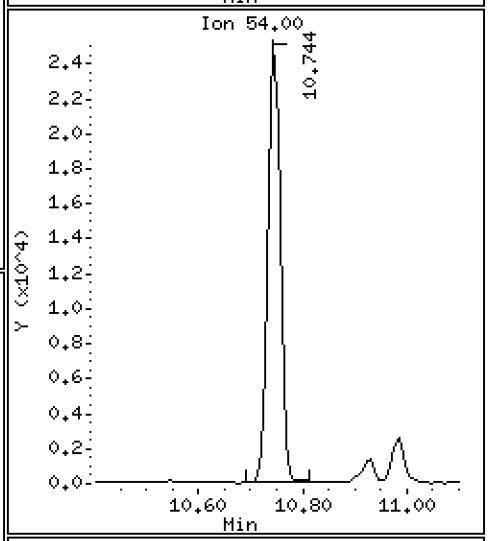


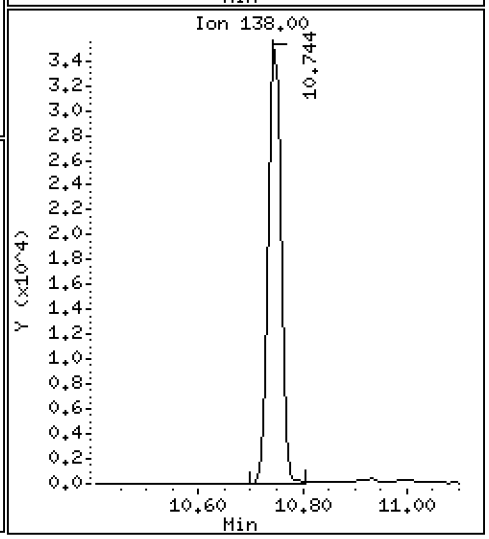












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

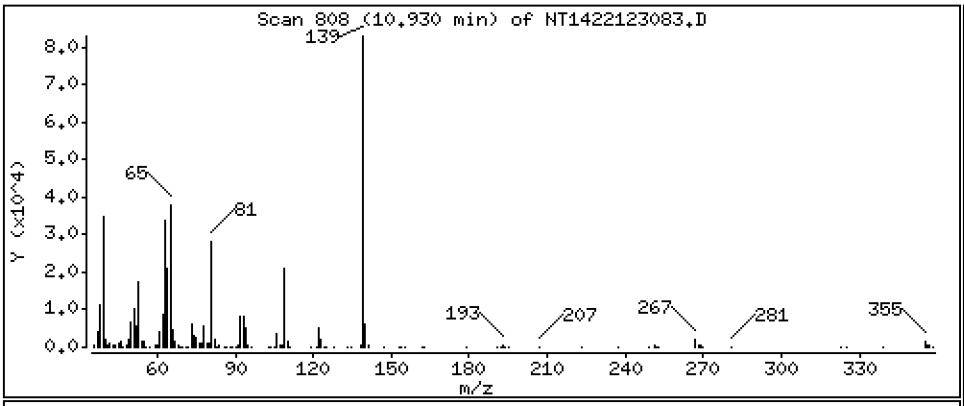
Operator: VTS

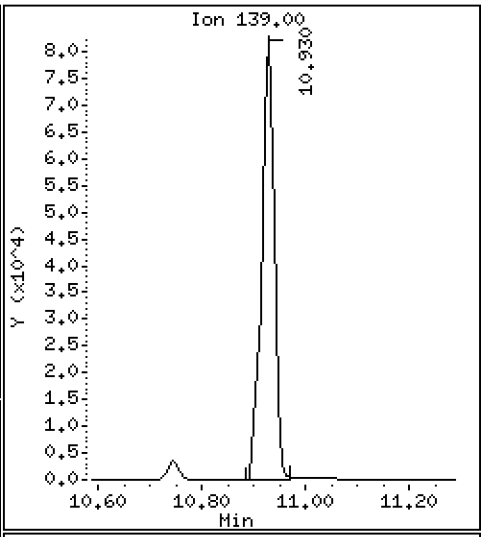
Column phase: ZB-5msi

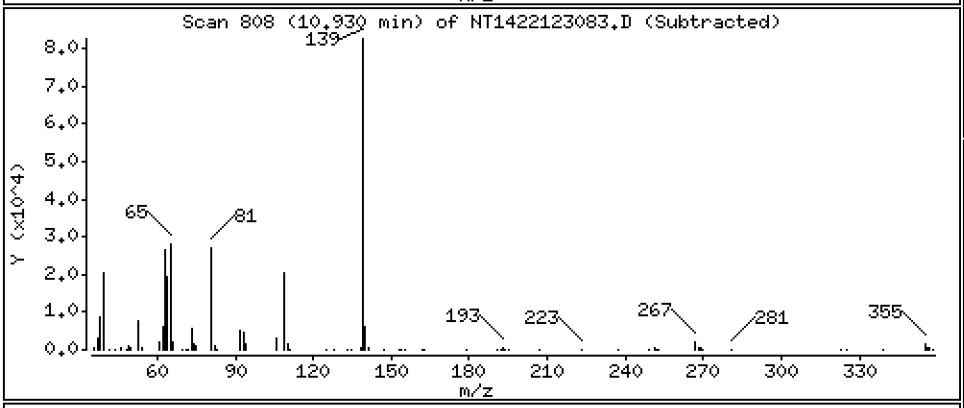
Column diameter: 0.25

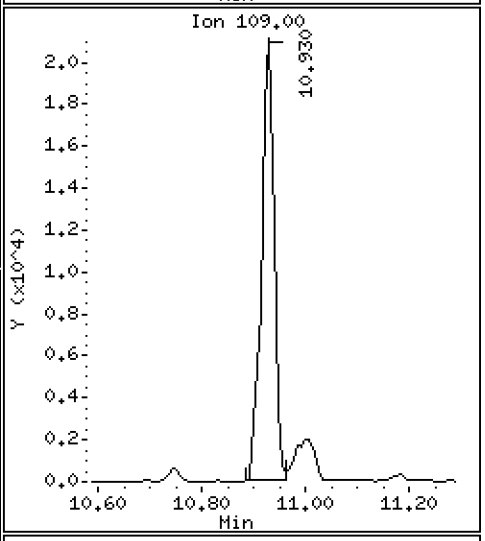
21 2-Nitrophenol

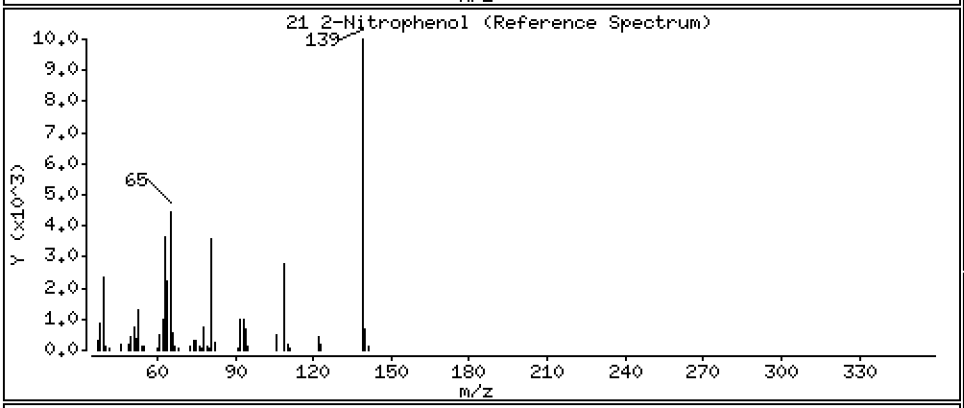
Concentration: 5.334 ug/mL

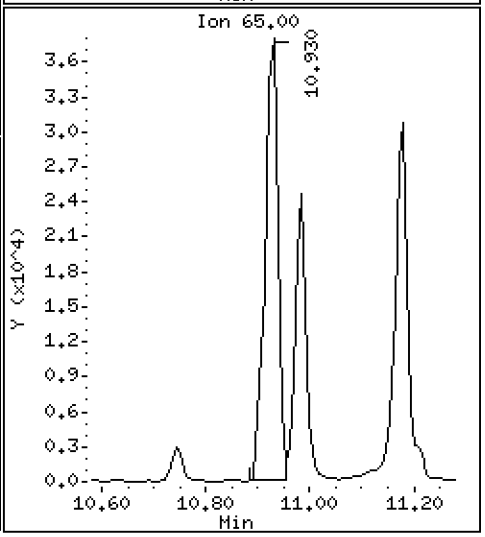


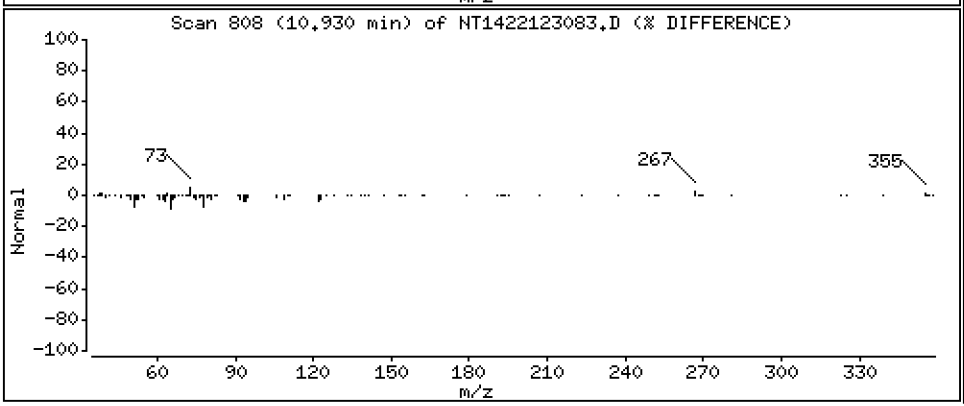












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

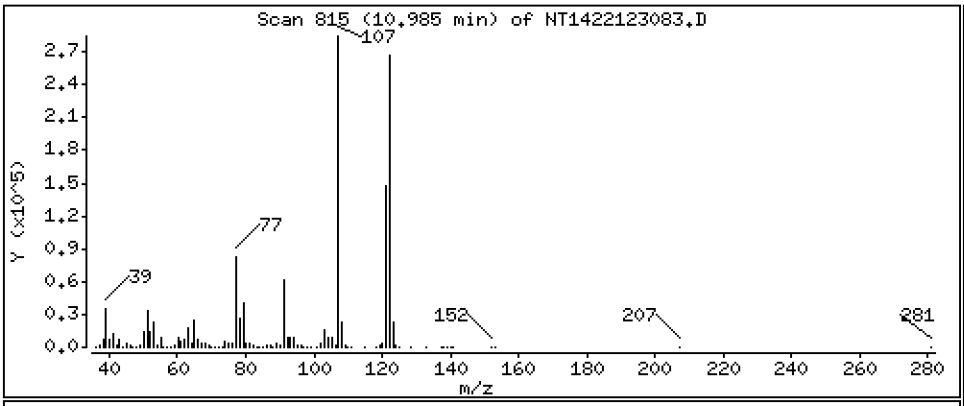
Operator: VTS

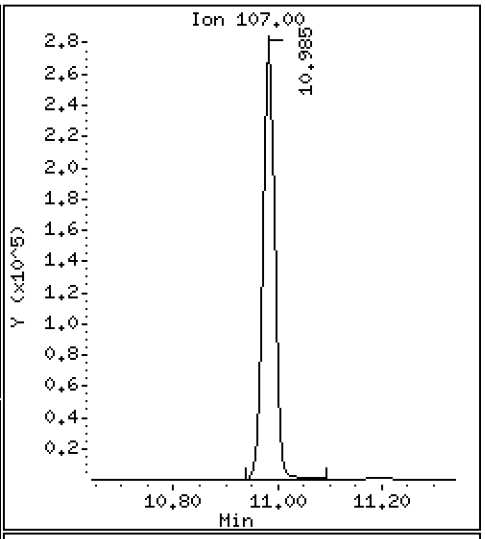
Column phase: ZB-5msi

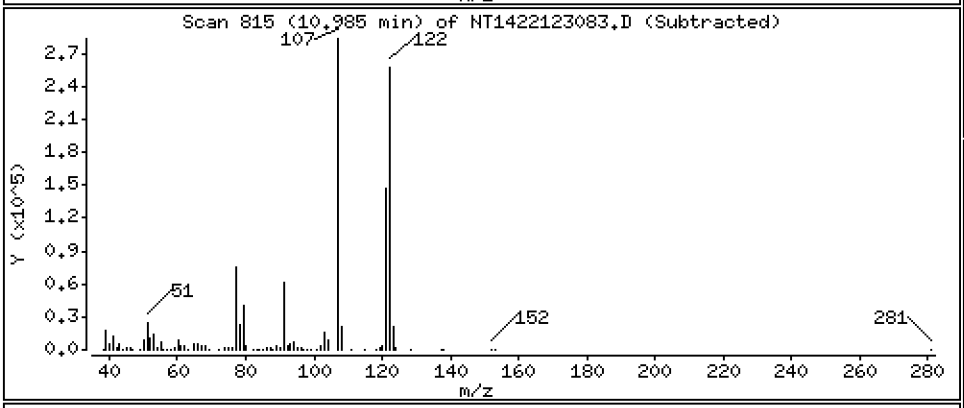
Column diameter: 0.25

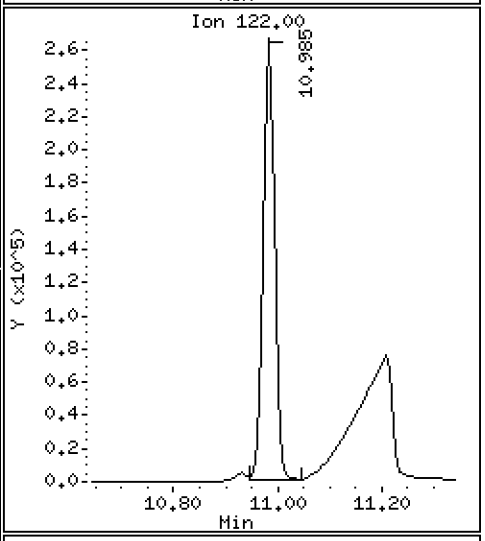
22 2,4-Dimethylphenol

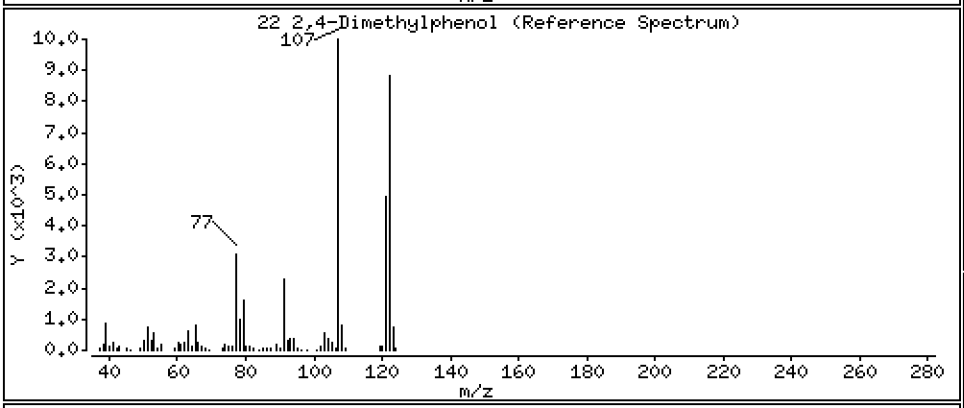
Concentration: 9.468 ug/mL

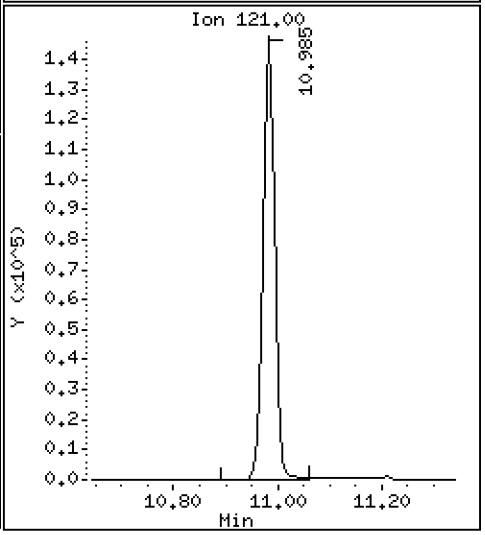


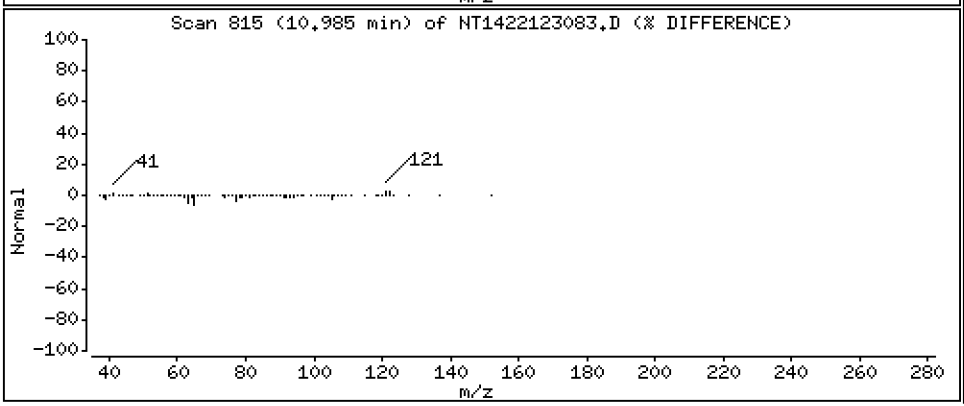












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123083.D

Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

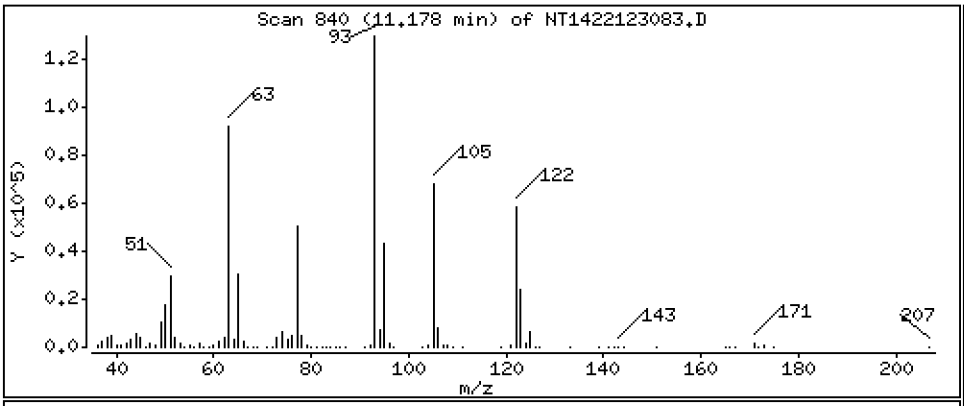
Operator: VTS

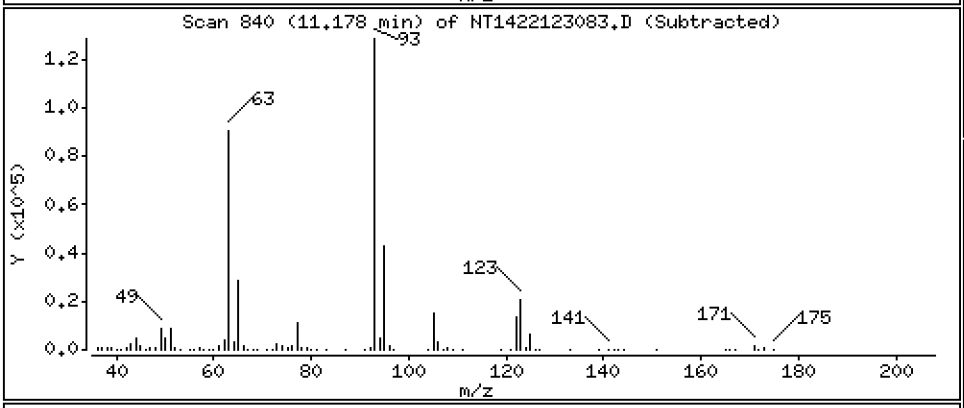
Column phase: ZB-5msi

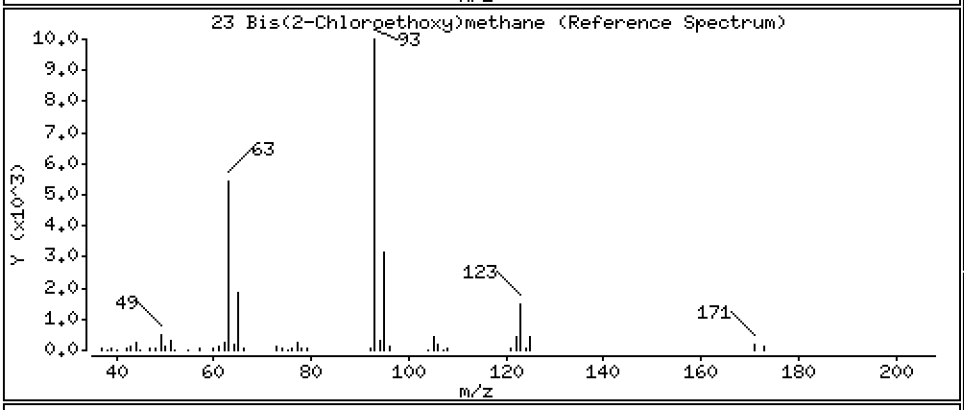
Column diameter: 0.25

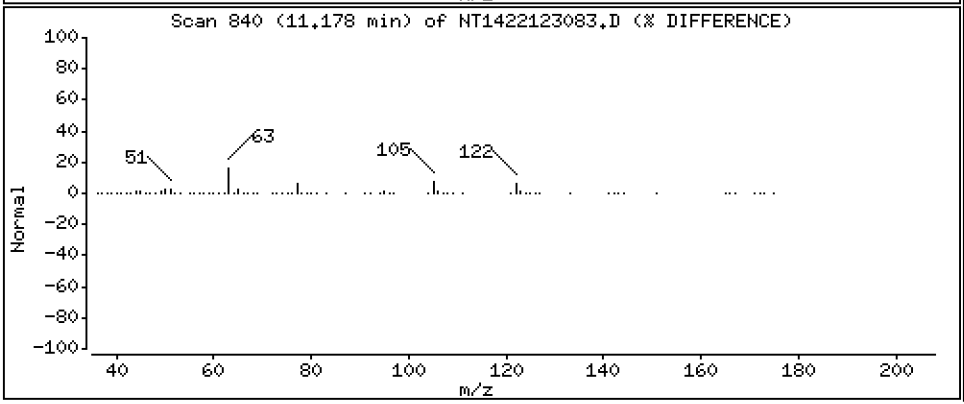
23 Bis(2-Chloroethoxy)methane

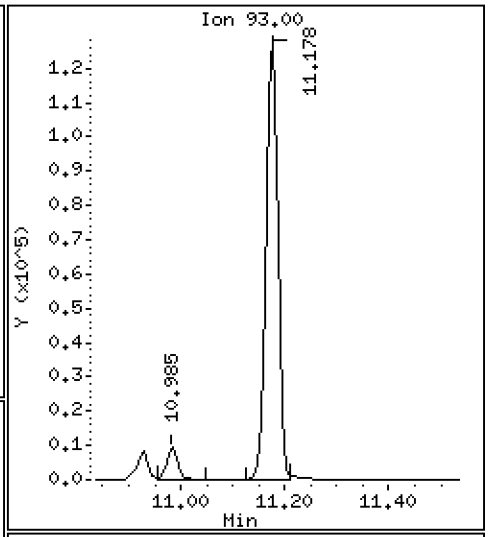
Concentration: 4.609 ug/mL

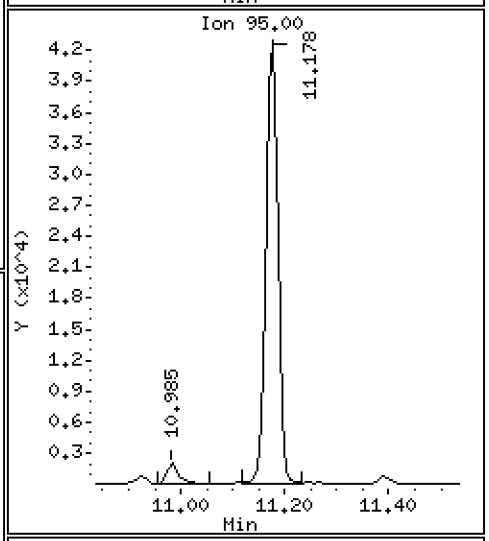


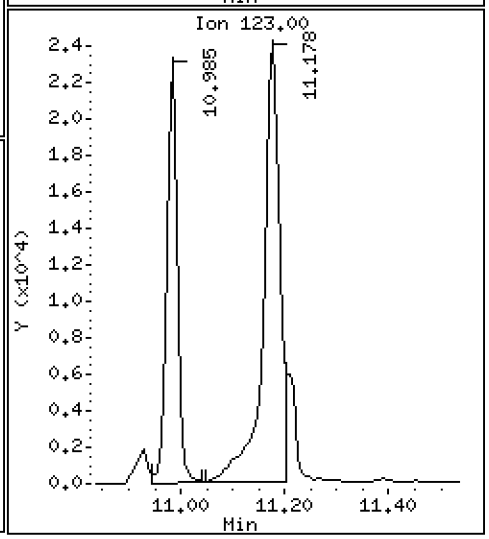












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

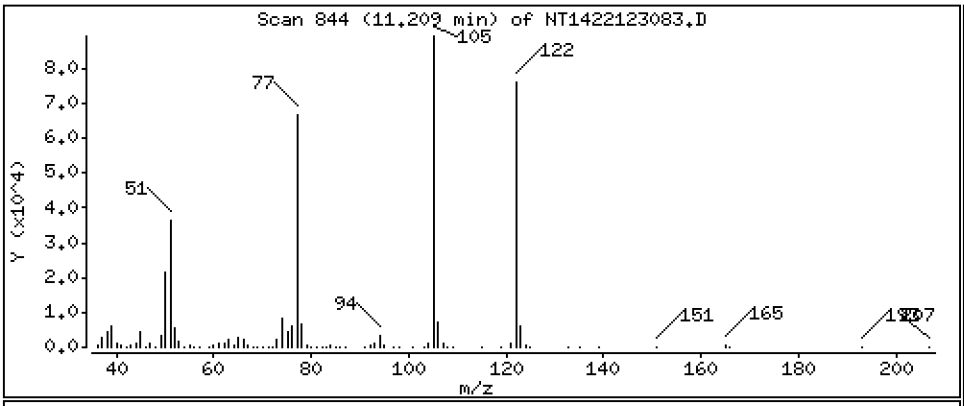
Operator: VTS

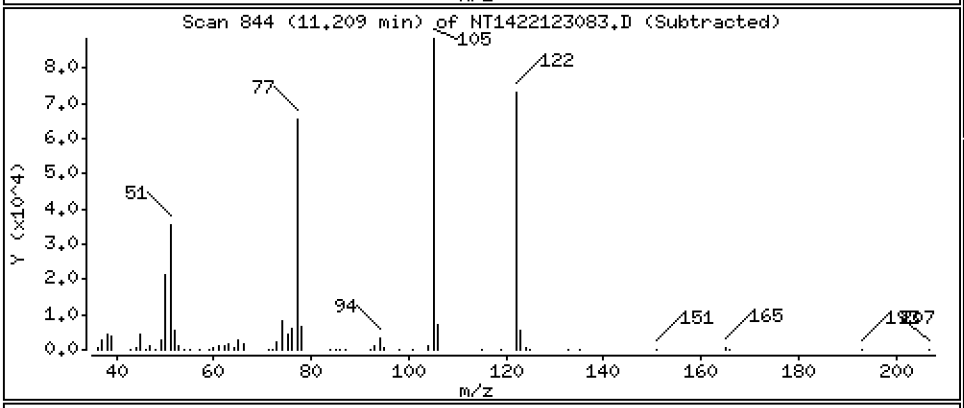
Column phase: ZB-5msi

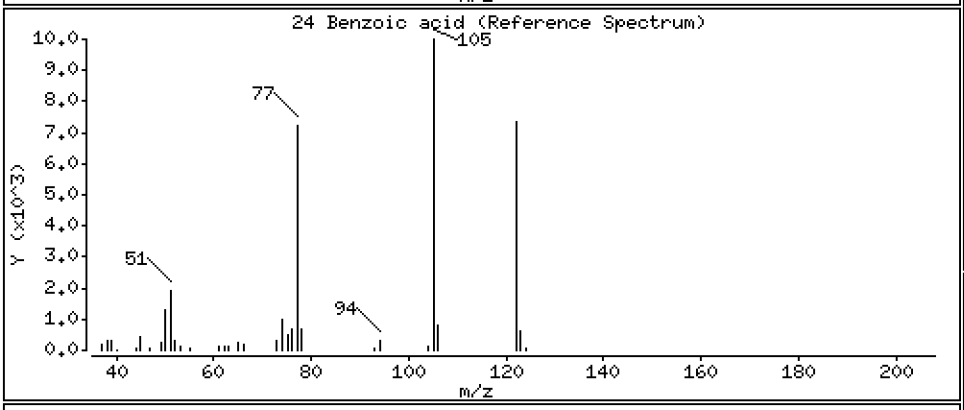
Column diameter: 0.25

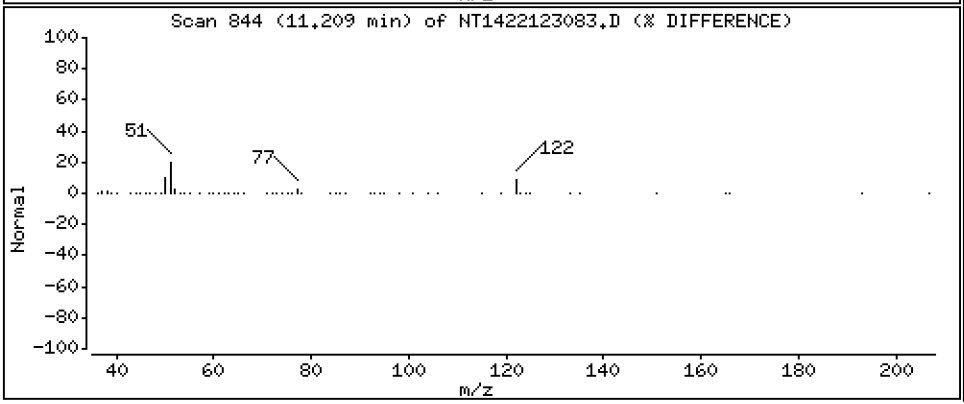
24 Benzoic acid

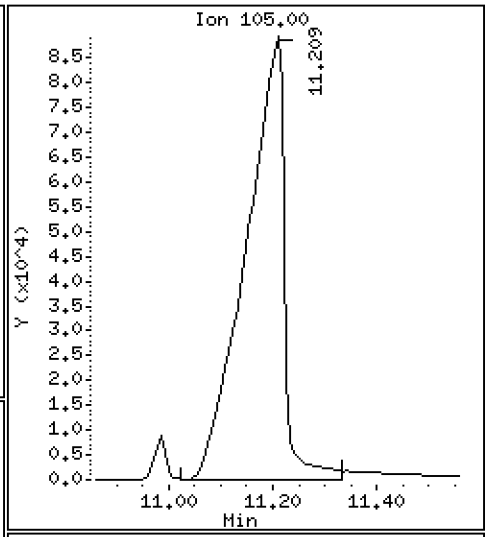
Concentration: 16.47 ug/mL

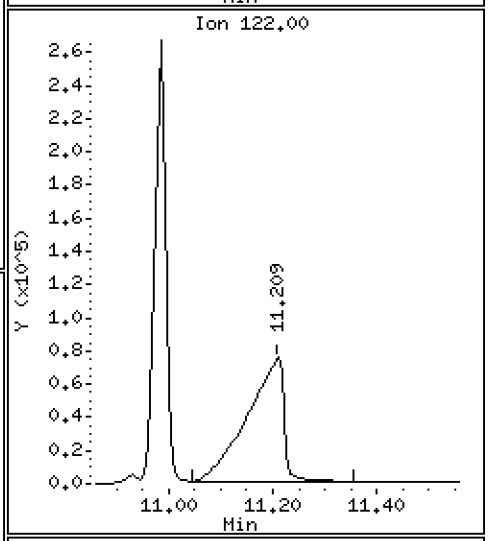


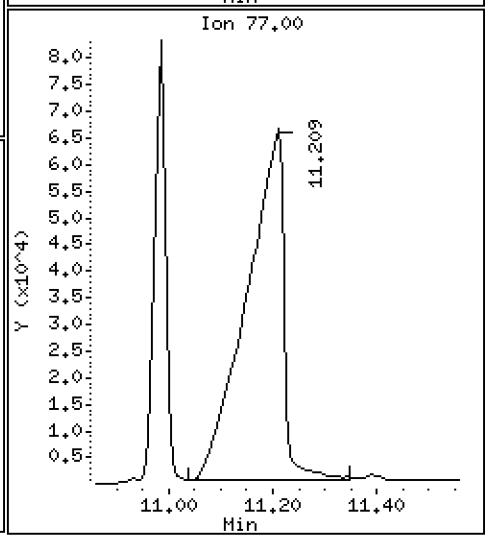












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

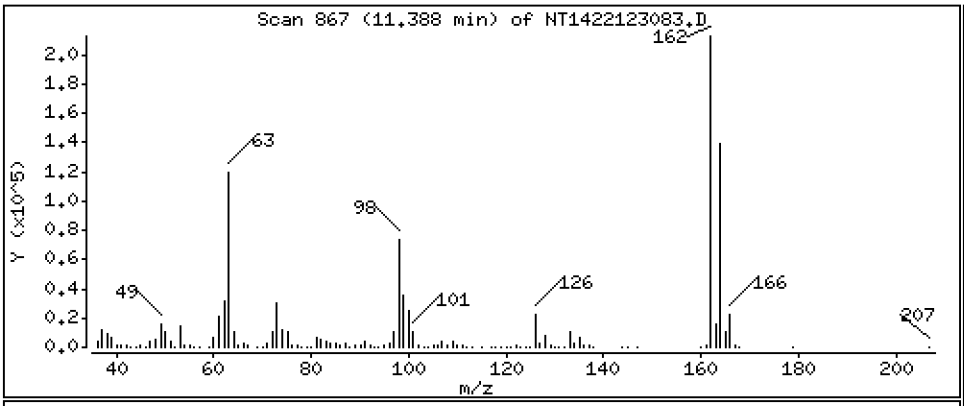
Operator: VTS

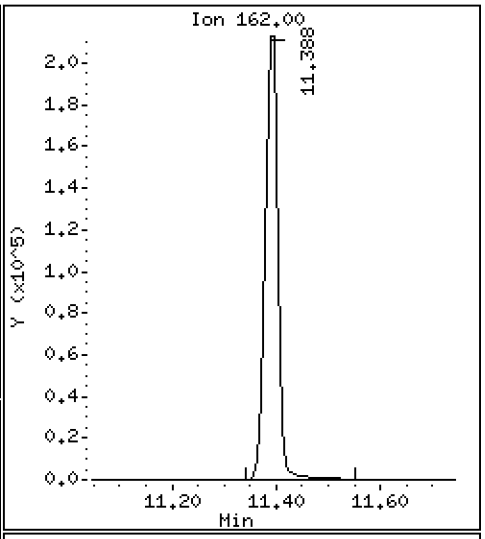
Column phase: ZB-5msi

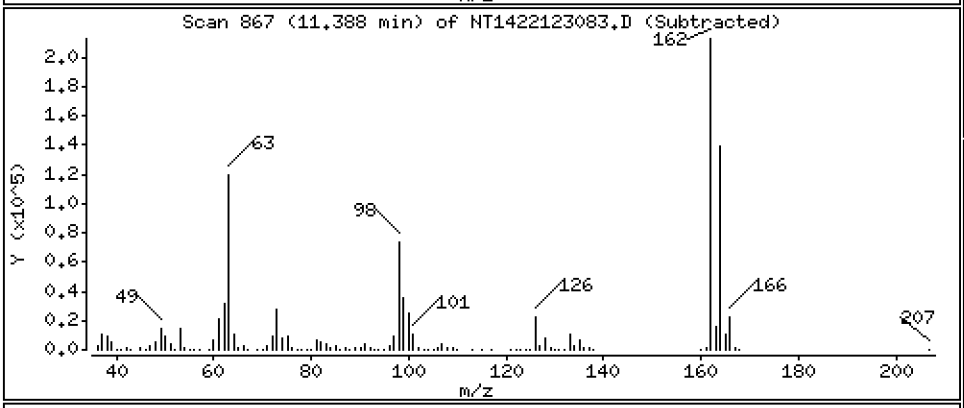
Column diameter: 0.25

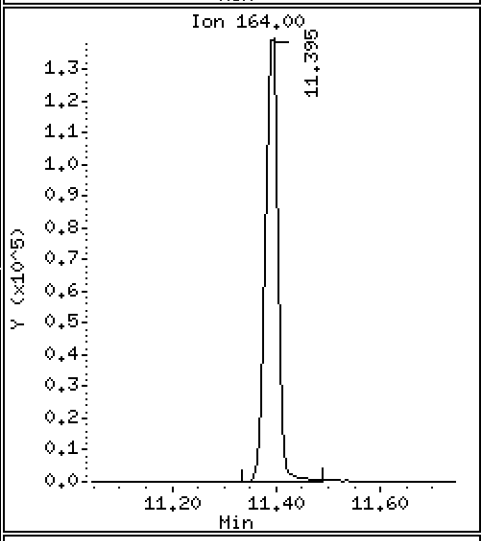
25 2,4-Dichlorophenol

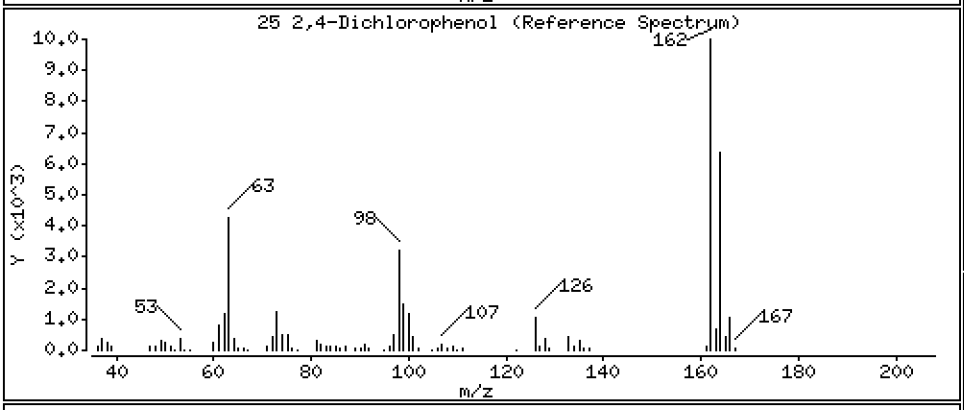
Concentration: 10.21 ug/mL

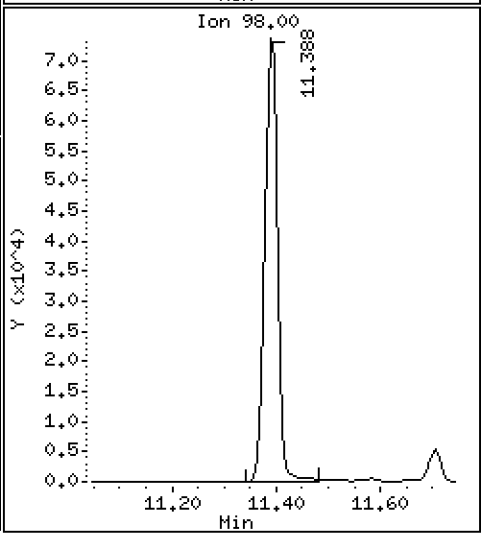


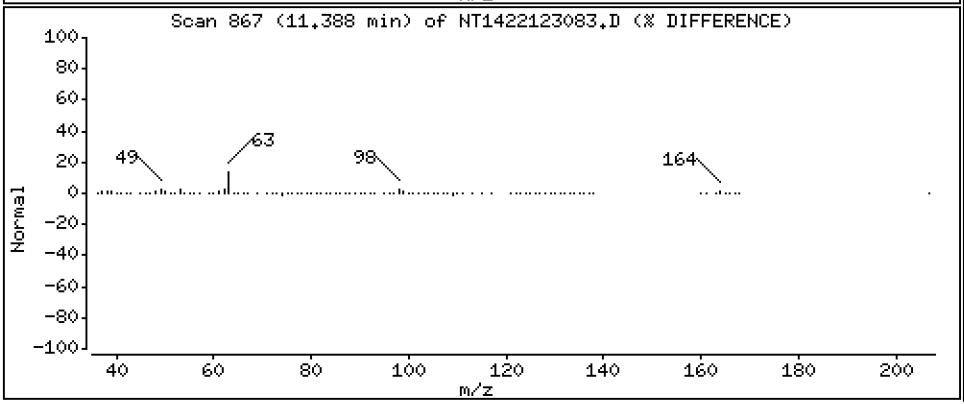












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

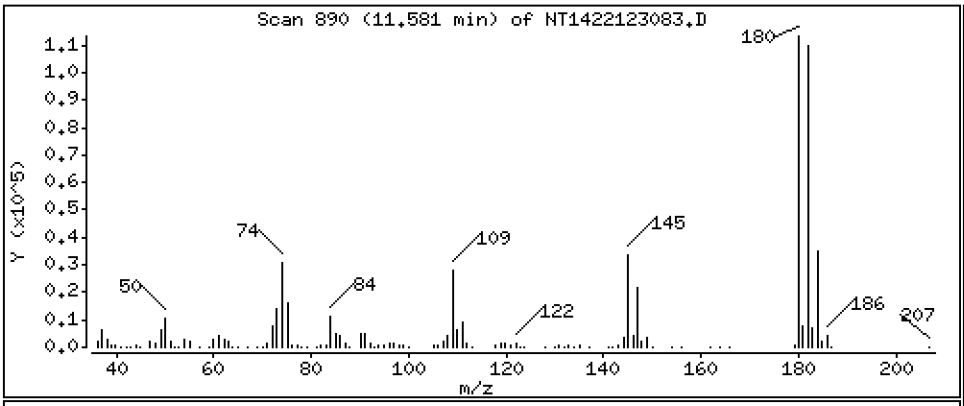
Operator: VTS

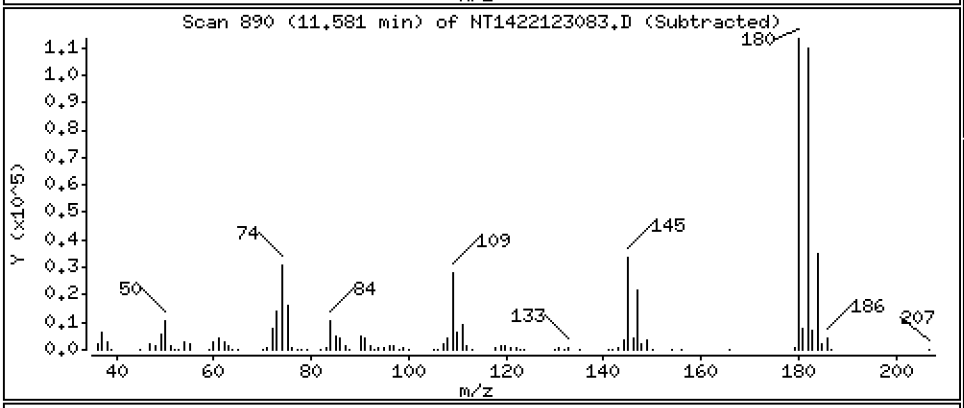
Column phase: ZB-5msi

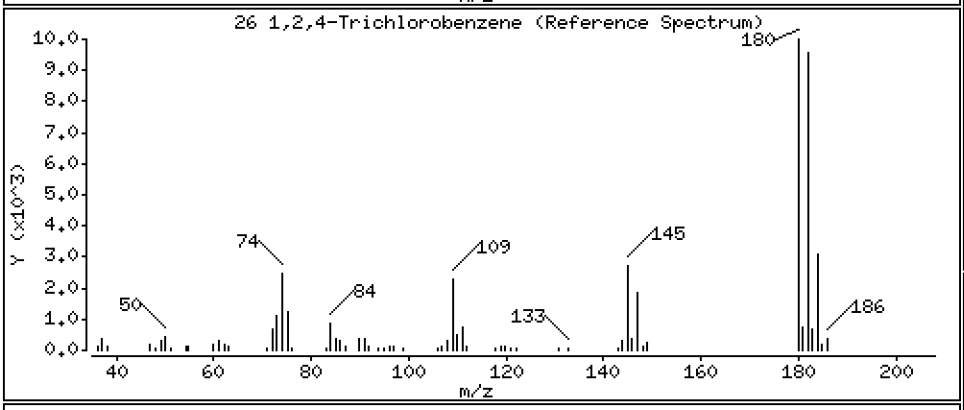
Column diameter: 0.25

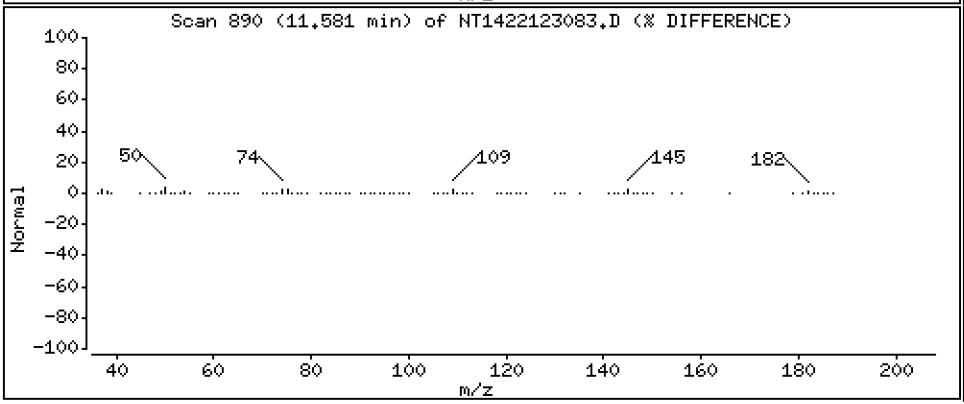
26 1,2,4-Trichlorobenzene

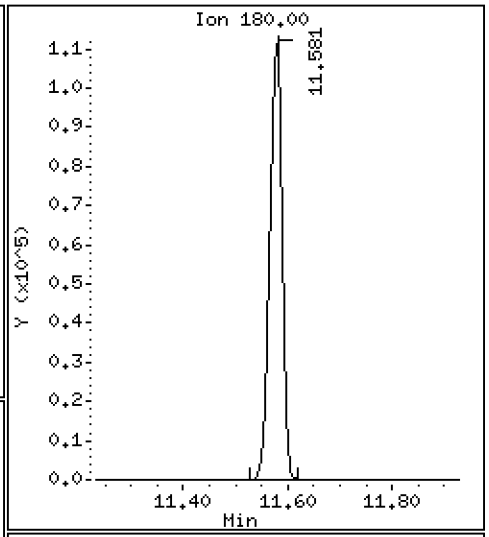
Concentration: 4.444 ug/mL

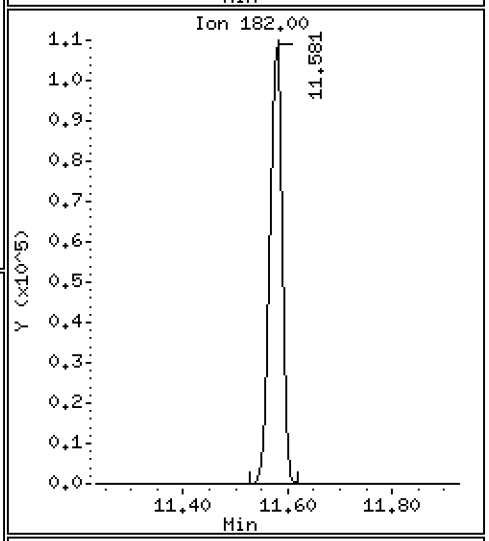


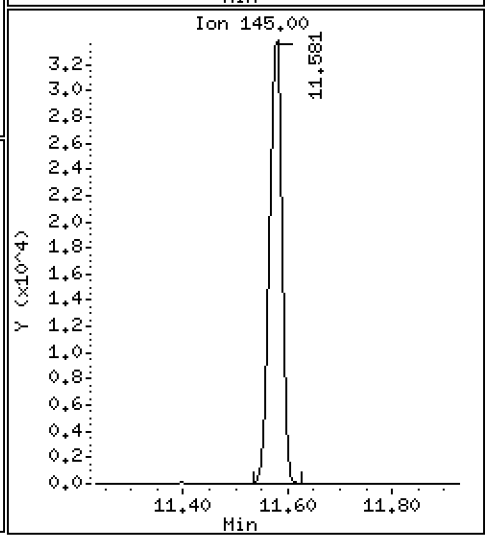












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

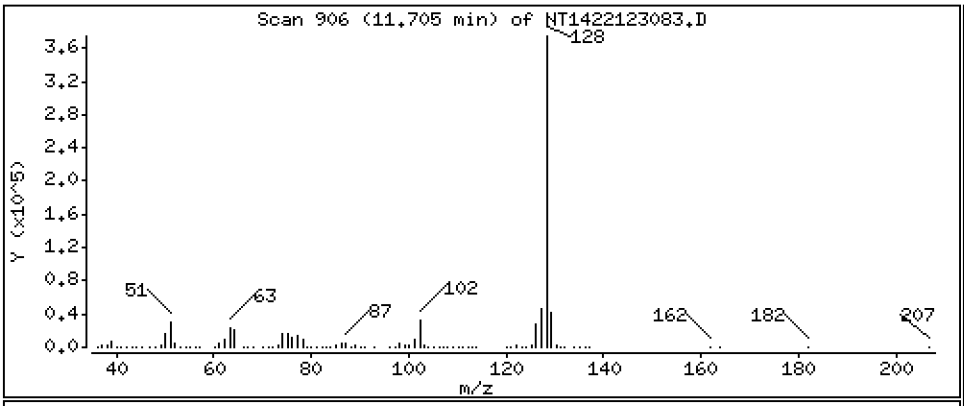
Operator: VTS

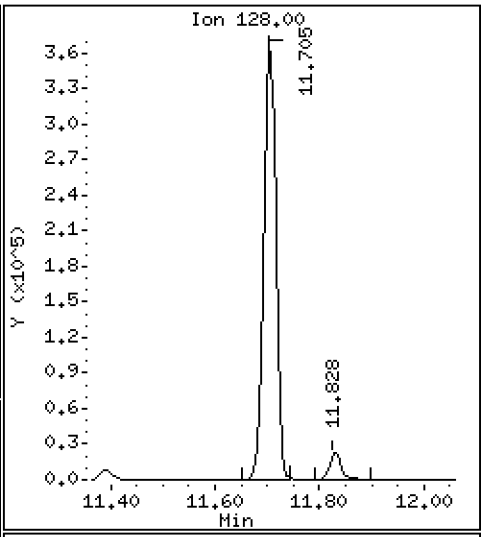
Column phase: ZB-5msi

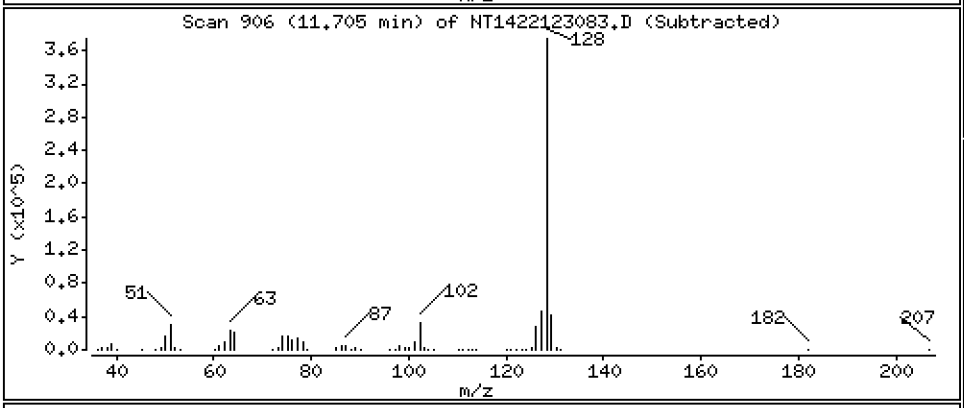
Column diameter: 0.25

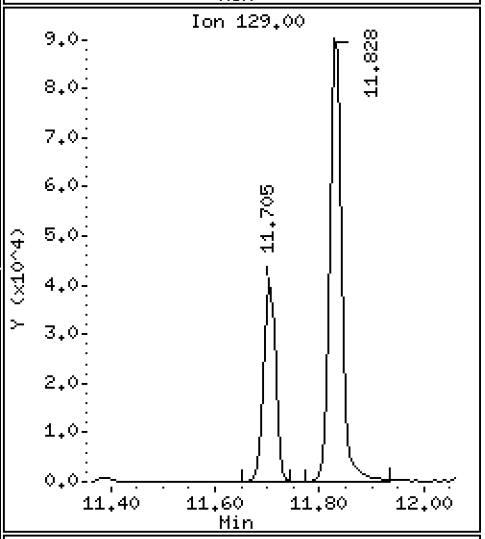
28 Naphthalene

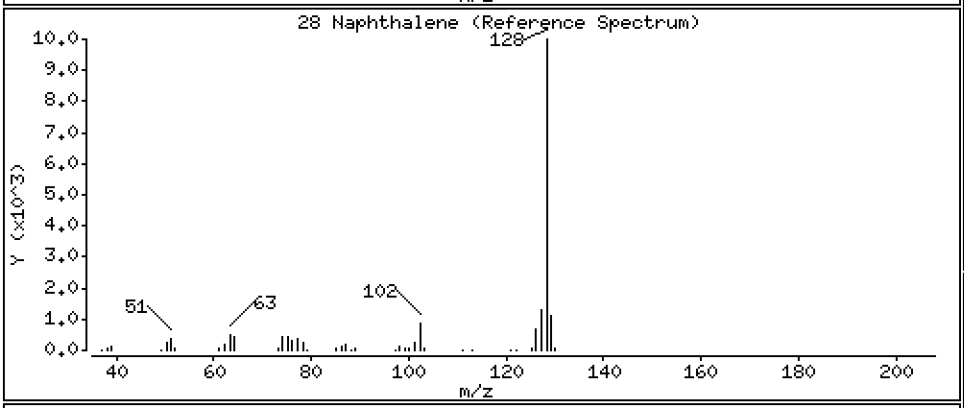
Concentration: 4.523 ug/mL

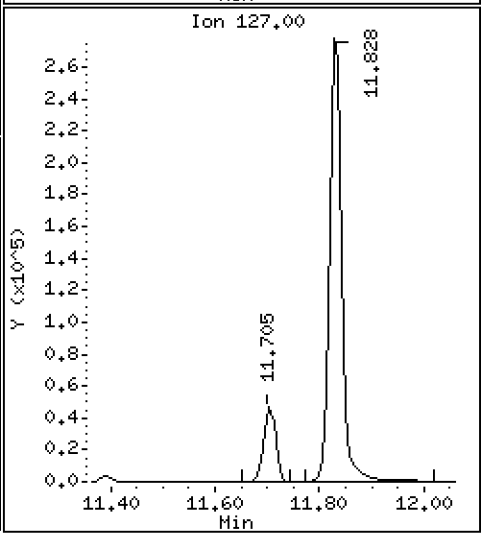


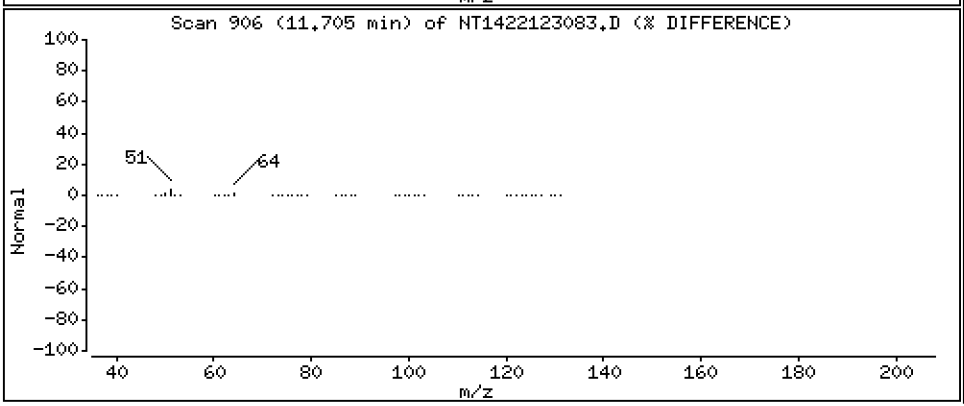












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

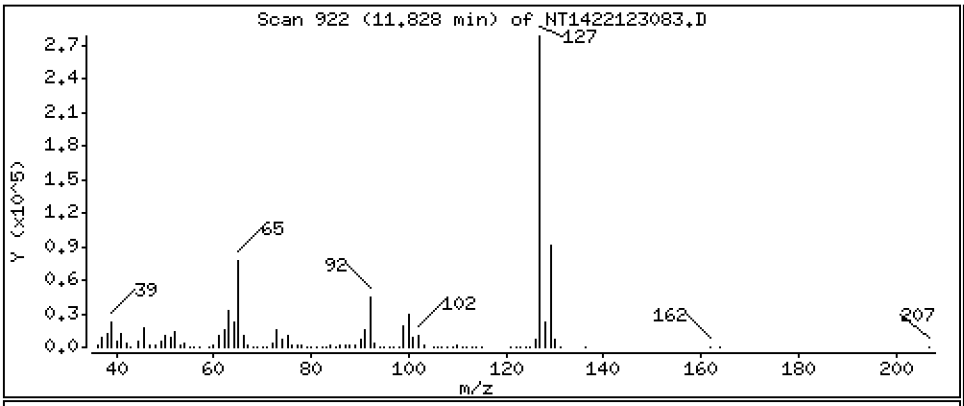
Operator: VTS

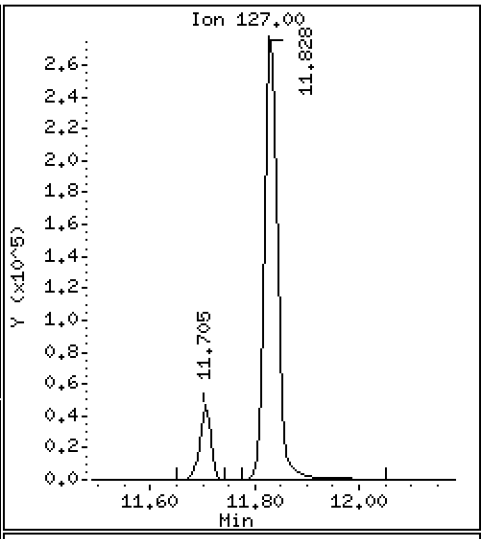
Column phase: ZB-5msi

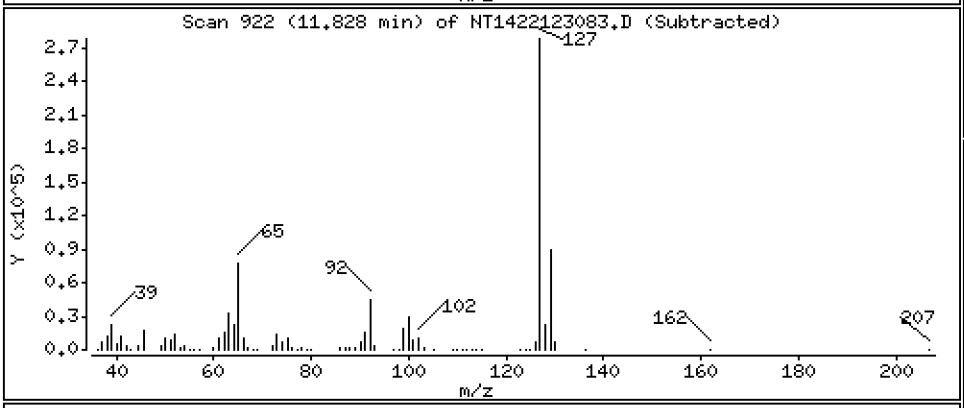
Column diameter: 0.25

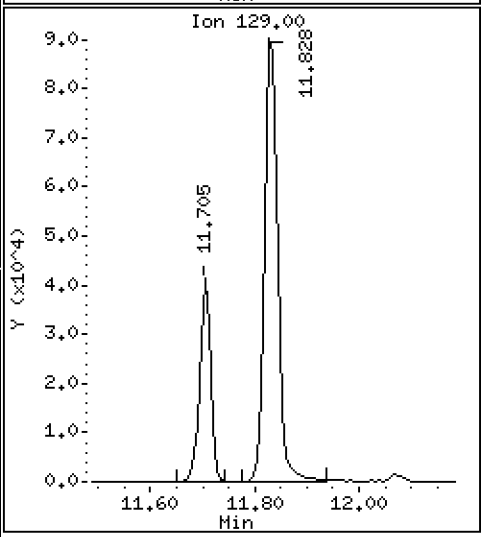
29 4-Chloroaniline

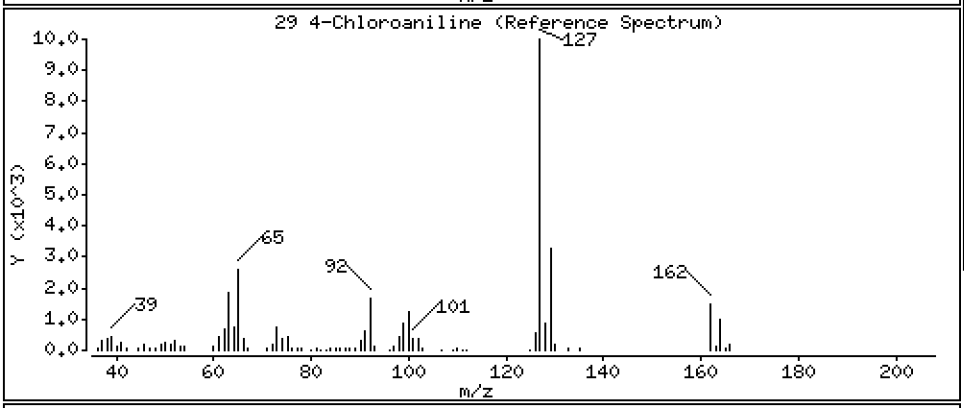
Concentration: 9.877 ug/mL

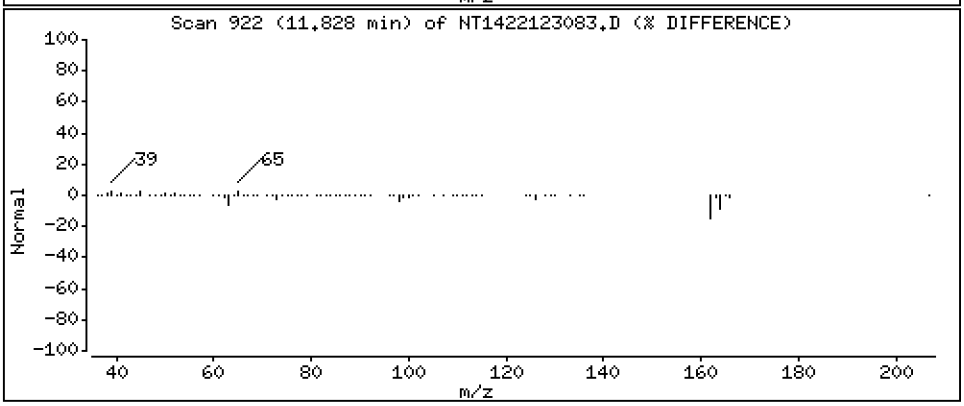












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

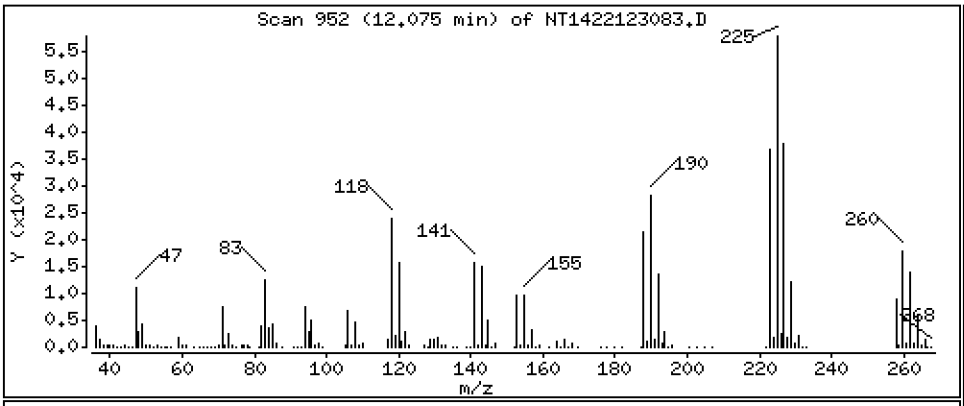
Operator: VTS

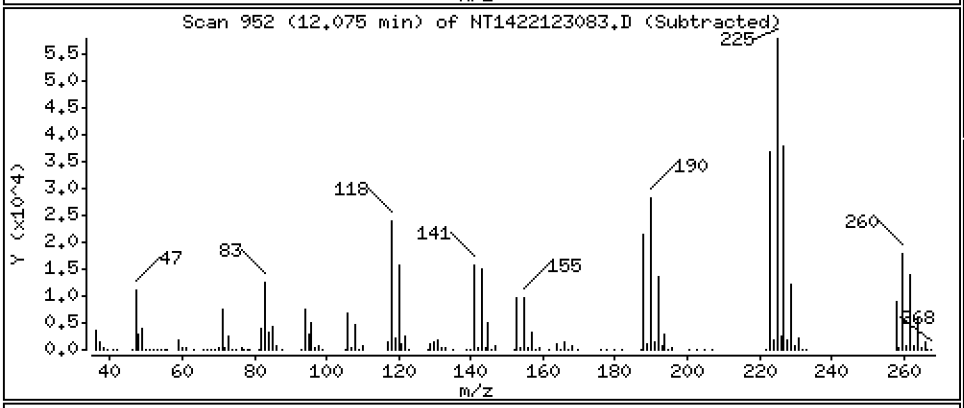
Column phase: ZB-5msi

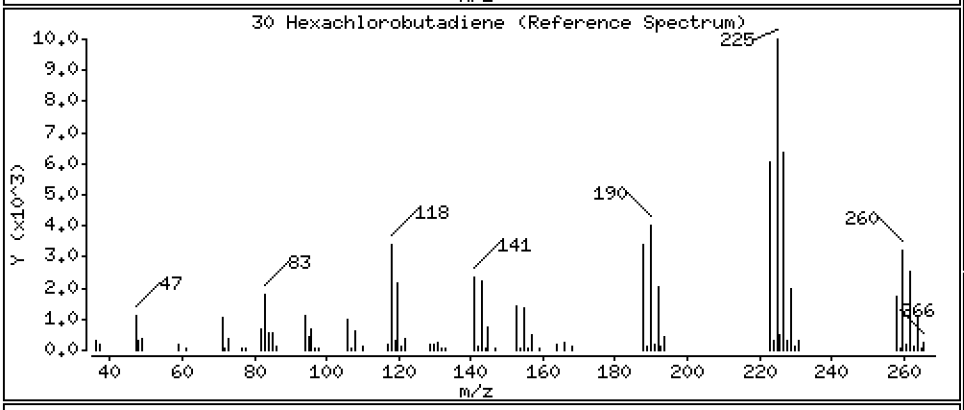
Column diameter: 0.25

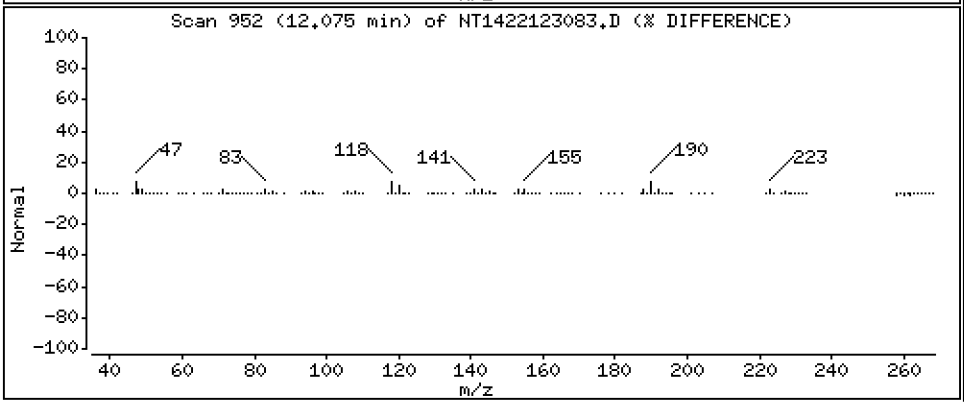
30 Hexachlorobutadiene

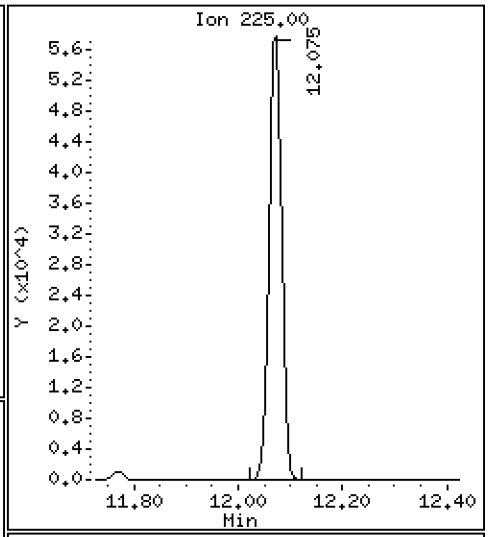
Concentration: 4.698 ug/mL

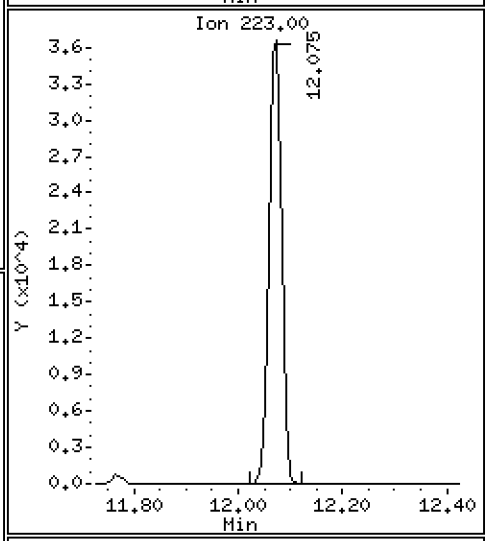


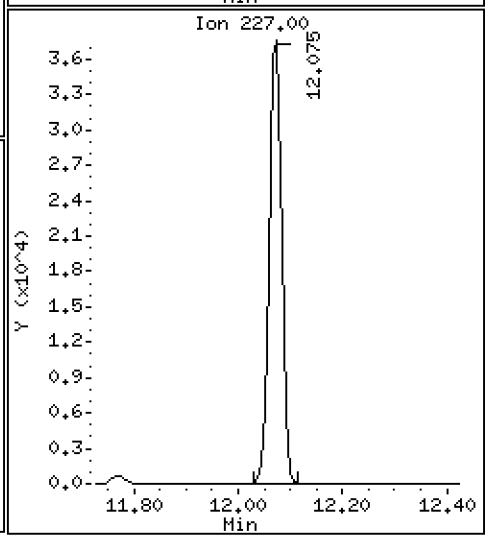












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

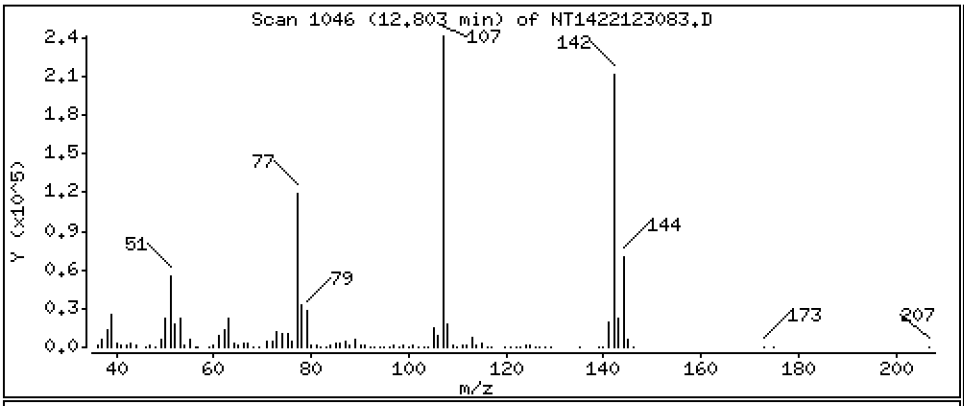
Operator: VTS

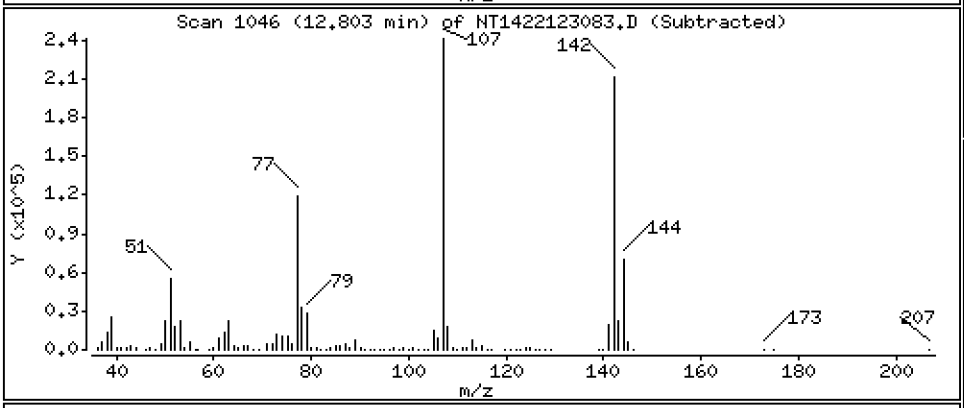
Column phase: ZB-5msi

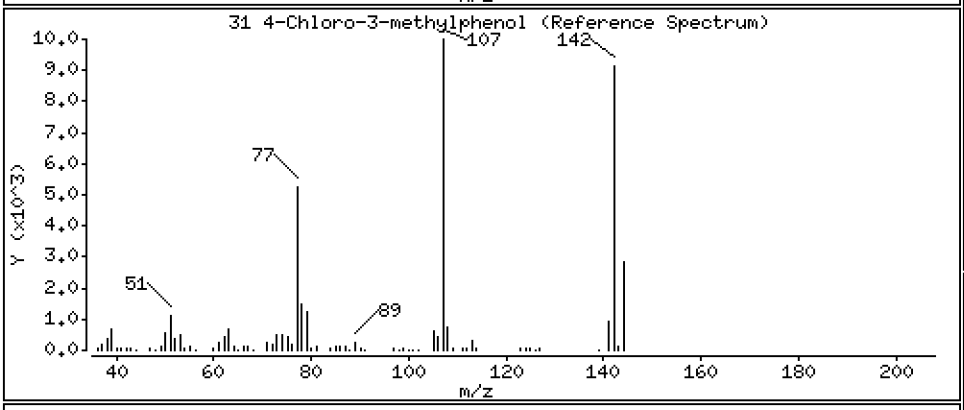
Column diameter: 0.25

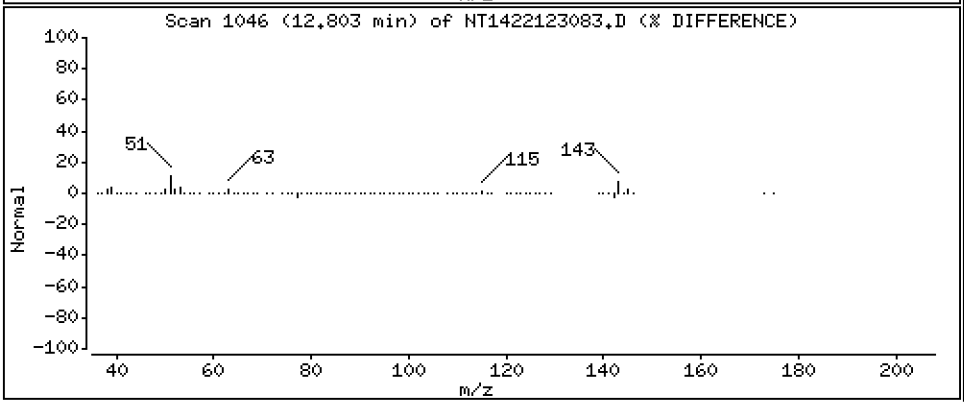
31 4-Chloro-3-methylphenol

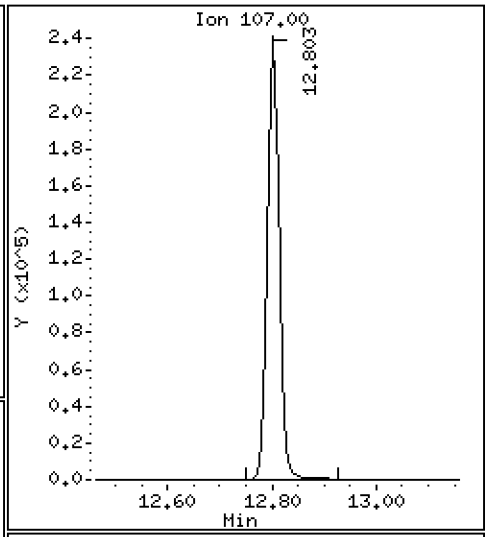
Concentration: 10.33 ug/mL

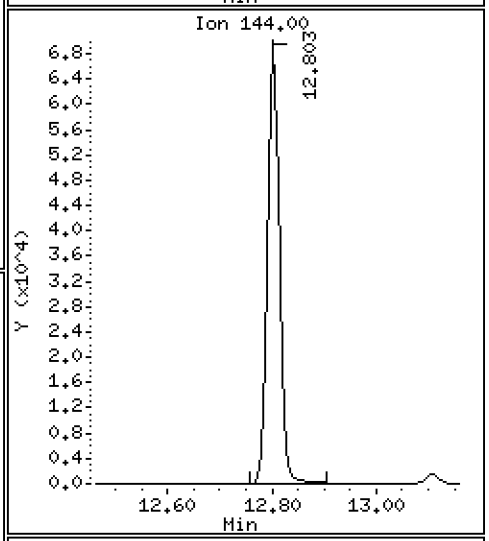


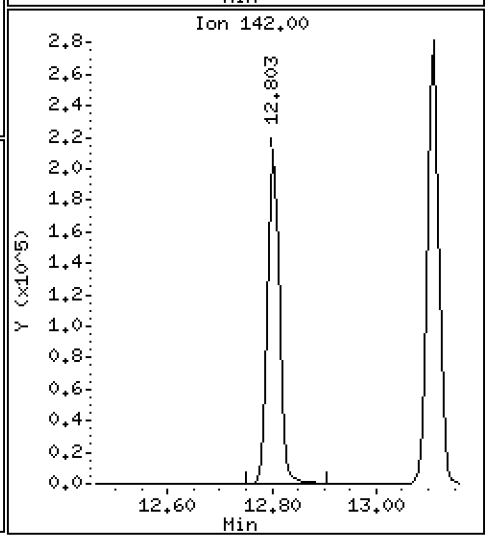












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

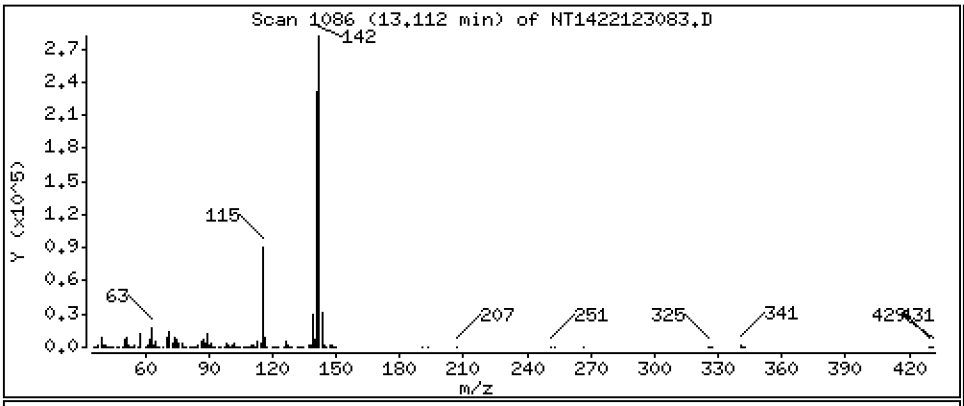
Operator: VTS

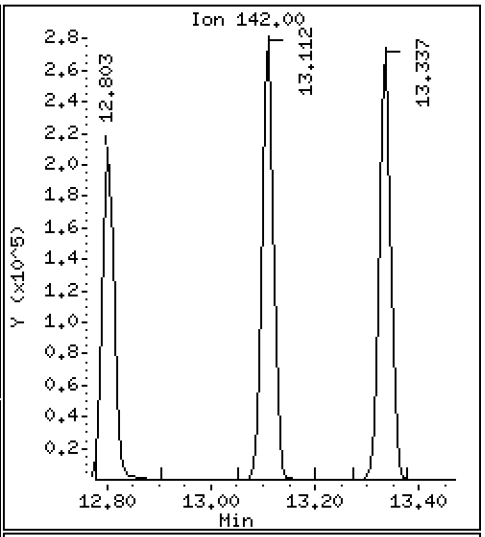
Column phase: ZB-5msi

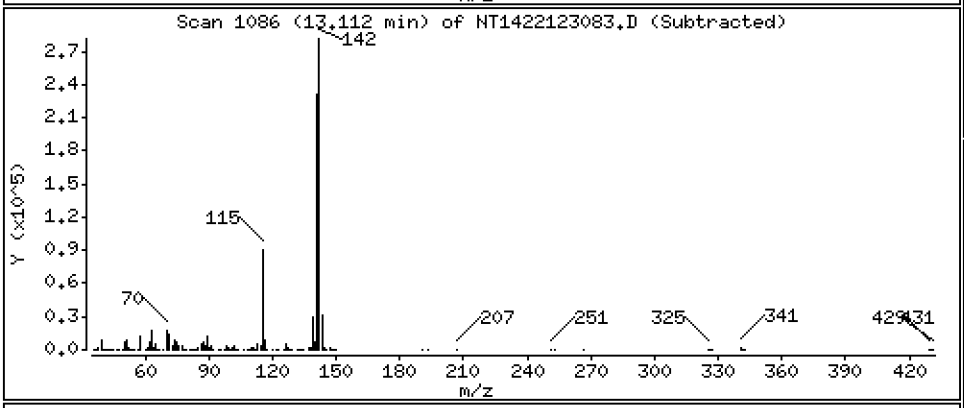
Column diameter: 0.25

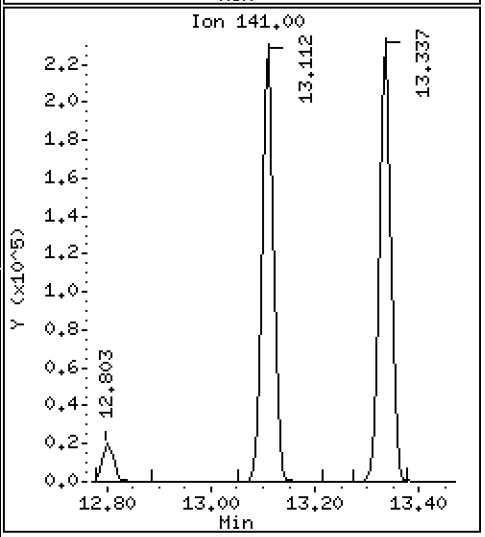
32 2-Methylnaphthalene

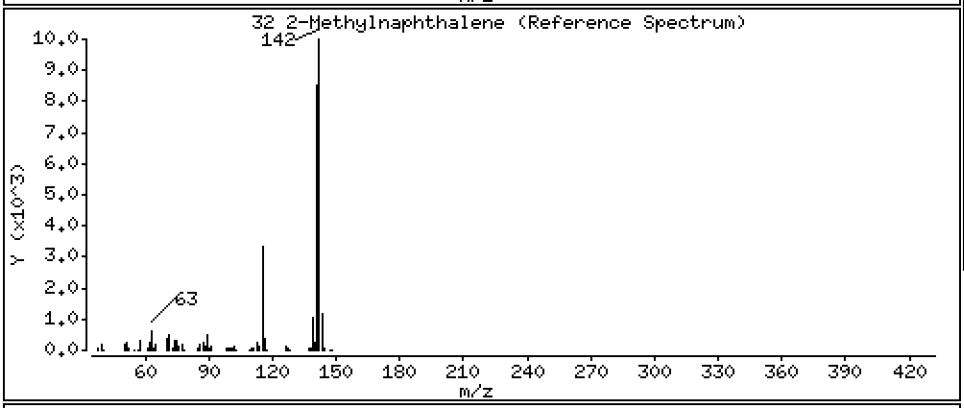
Concentration: 4.777 ug/mL

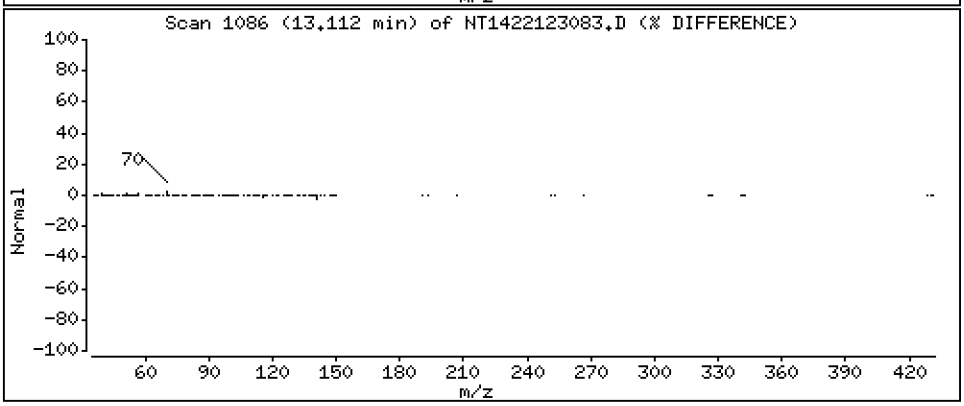












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123083.D

Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

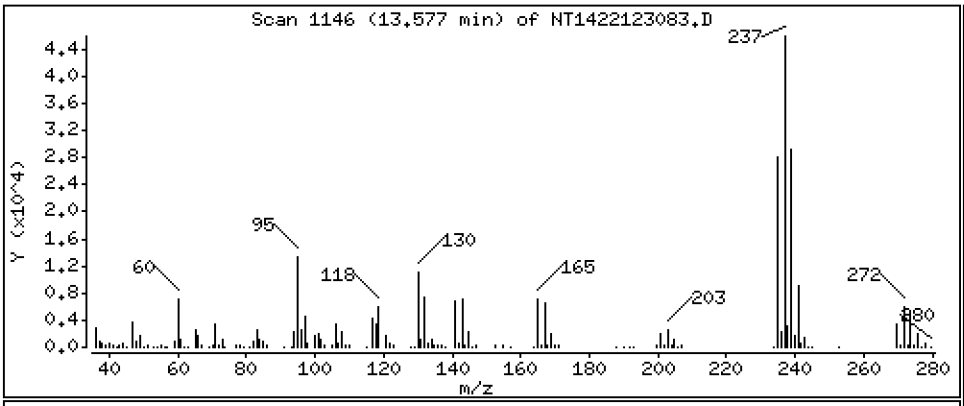
Operator: VTS

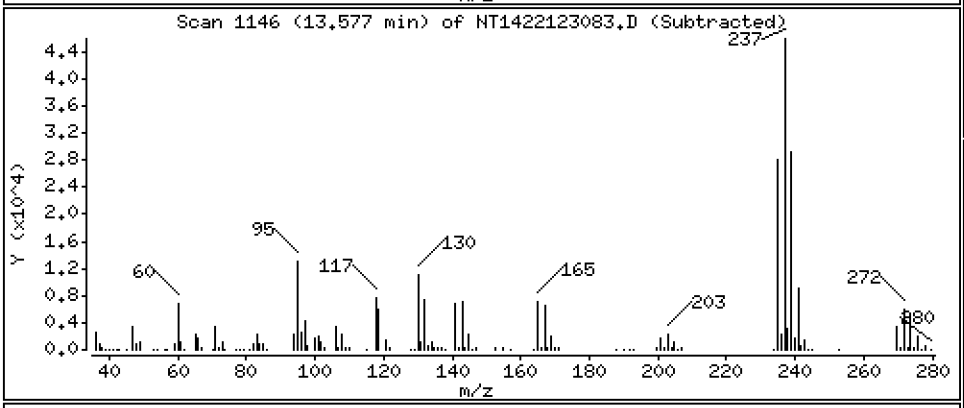
Column phase: ZB-5msi

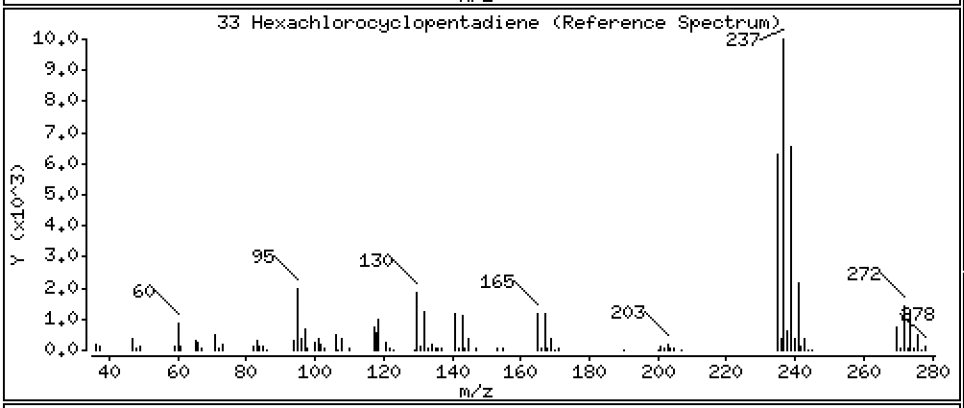
Column diameter: 0.25

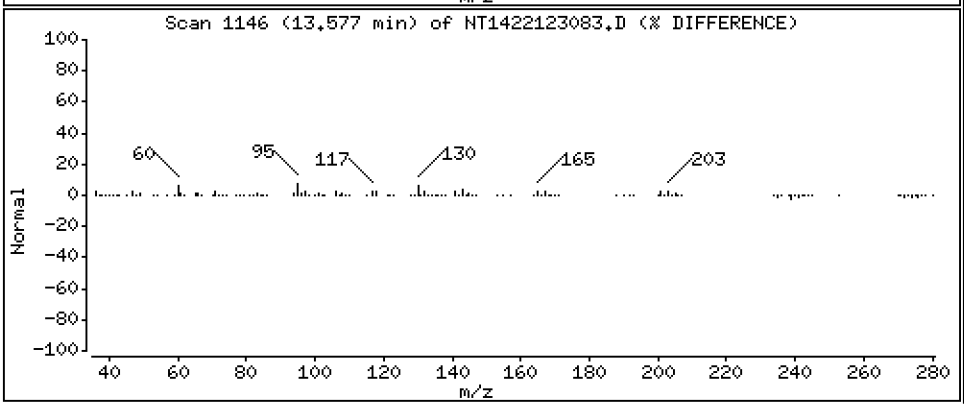
33 Hexachlorocyclopentadiene

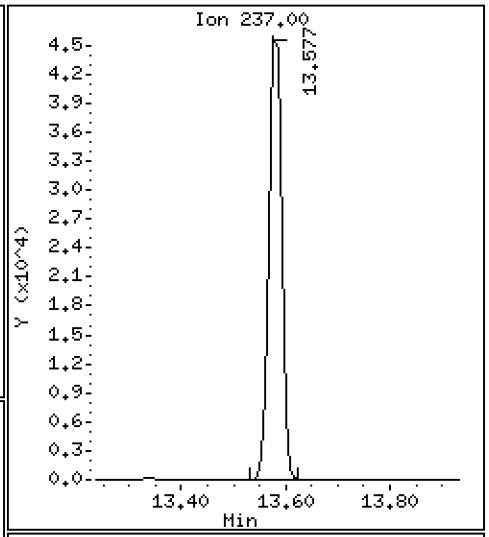
Concentration: 3.594 ug/mL

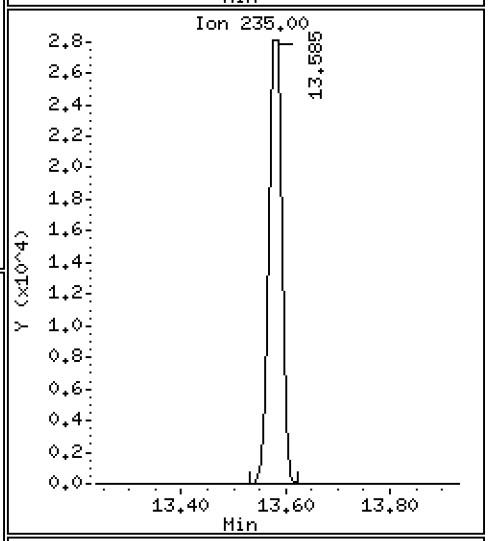


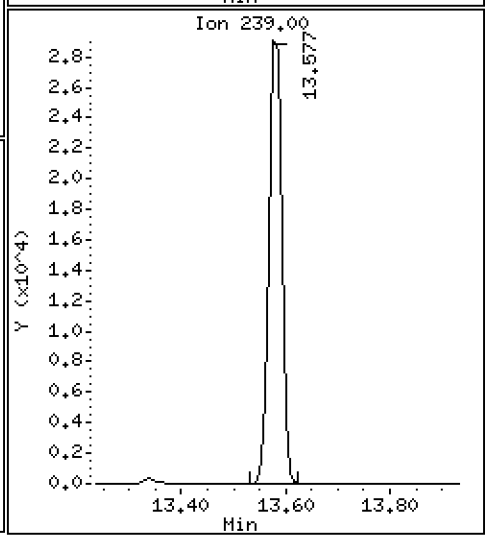












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

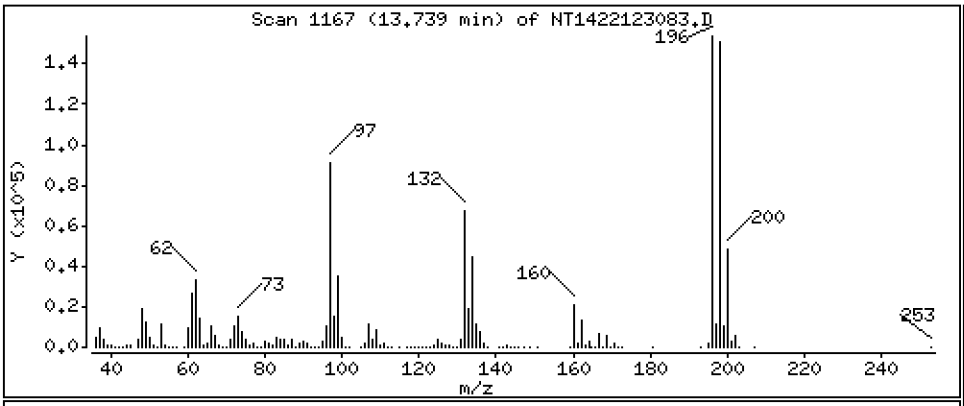
Operator: VTS

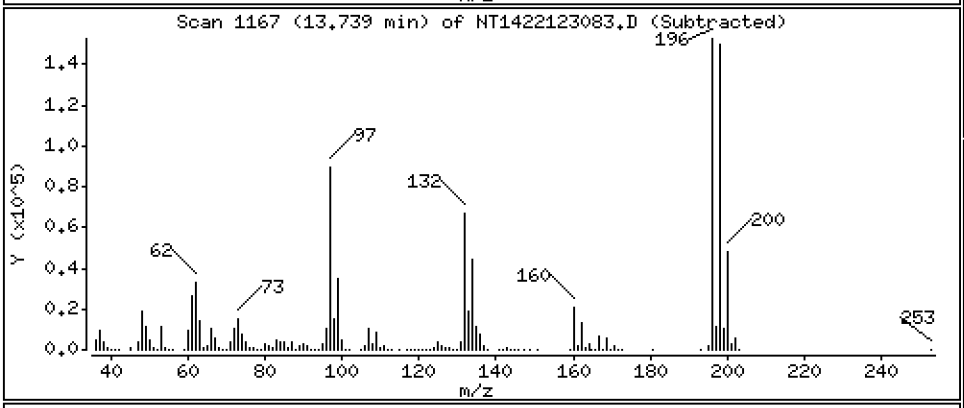
Column phase: ZB-5msi

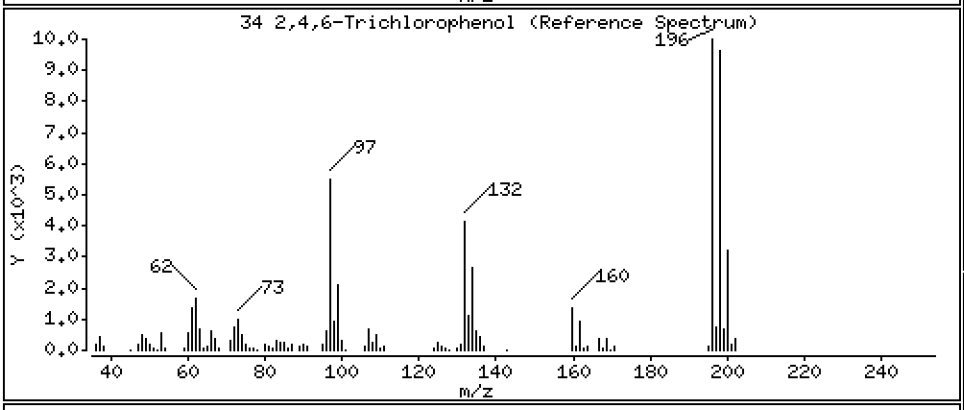
Column diameter: 0.25

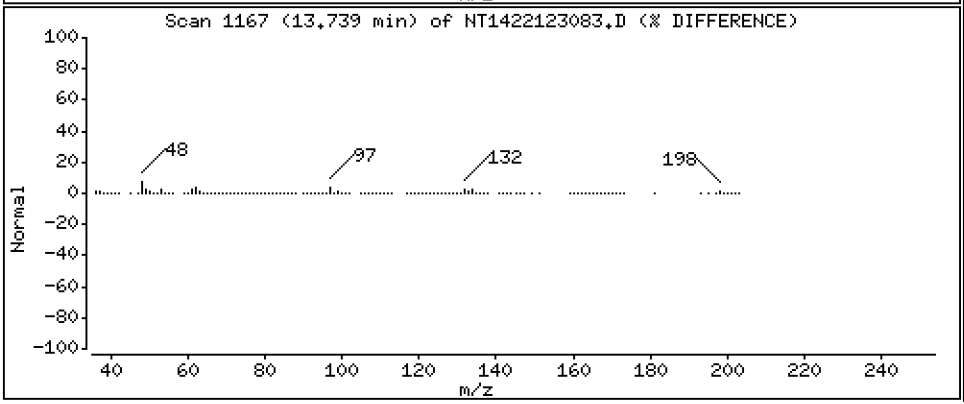
34 2,4,6-Trichlorophenol

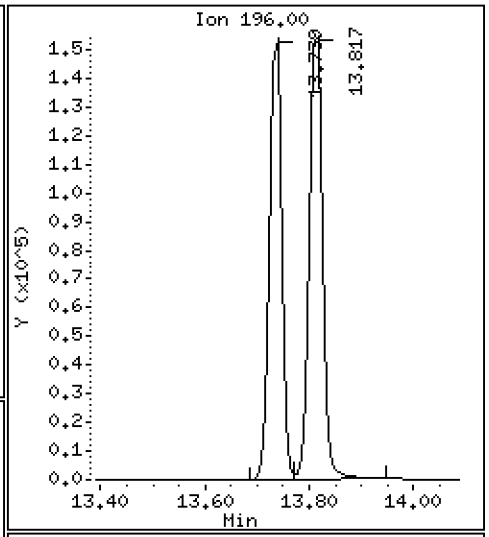
Concentration: 10.37 ug/mL

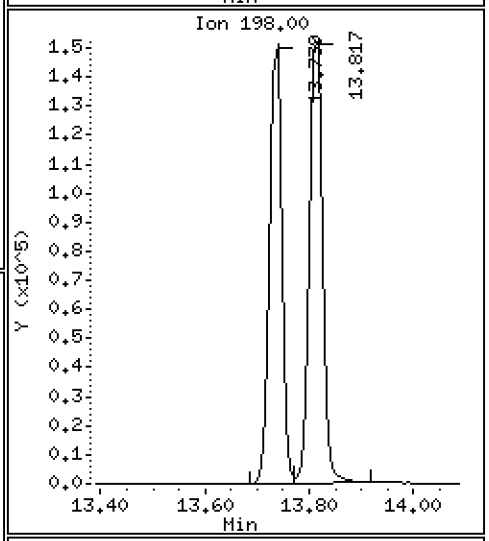


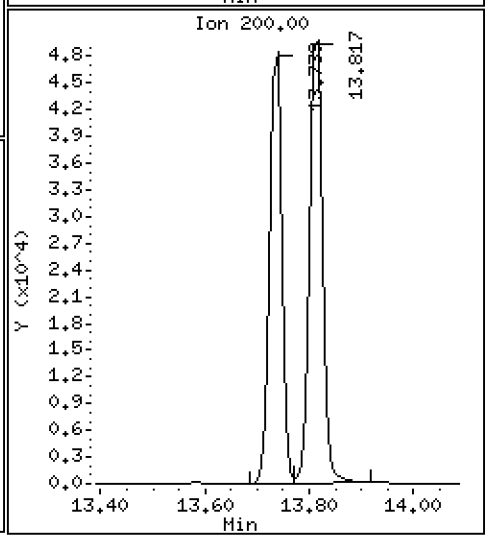












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

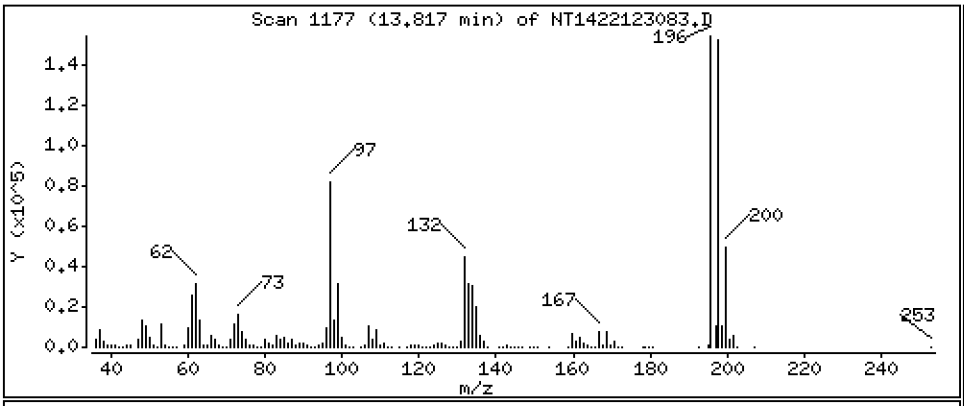
Operator: VTS

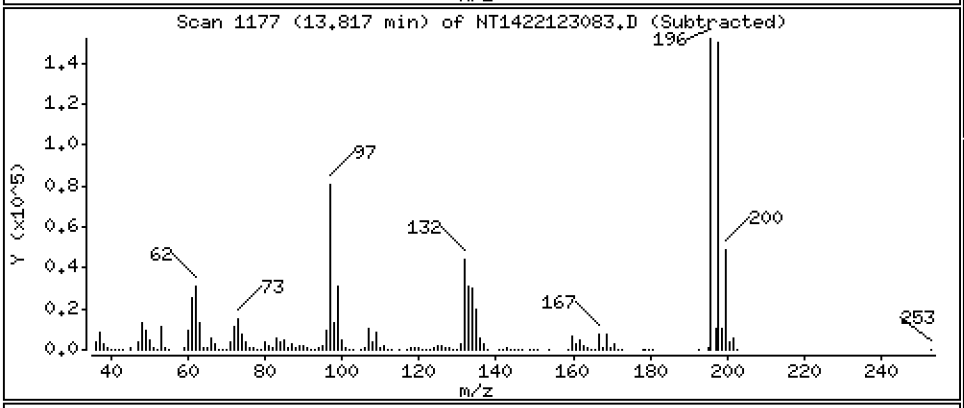
Column phase: ZB-5msi

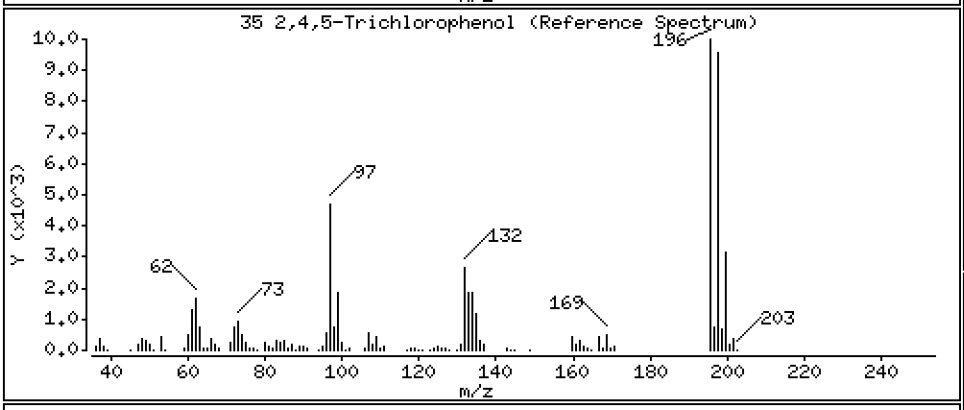
Column diameter: 0.25

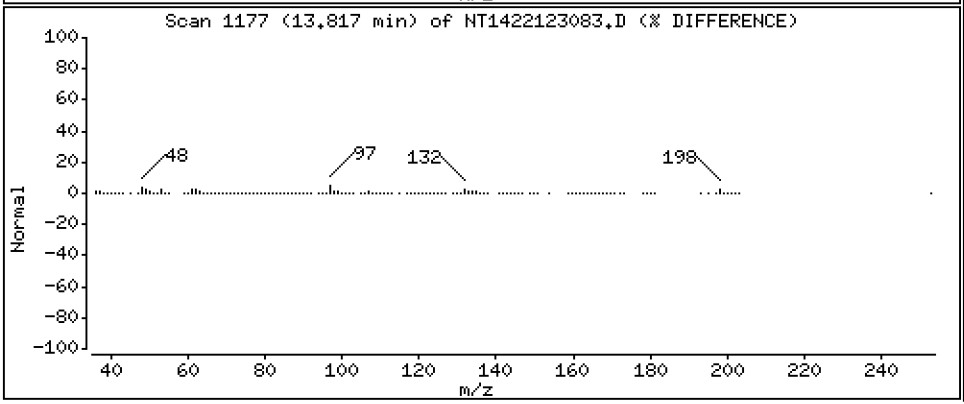
35 2,4,5-Trichlorophenol

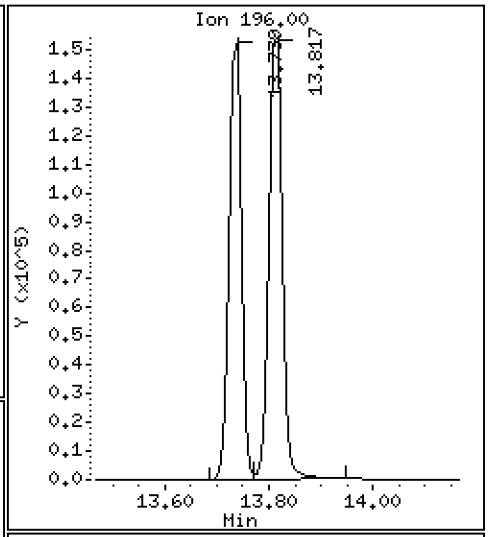
Concentration: 9.924 ug/mL

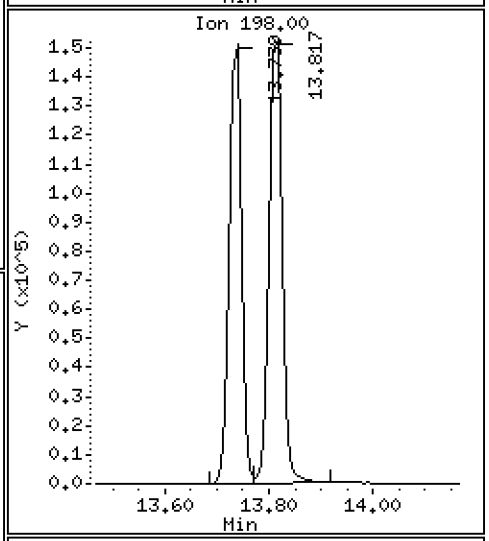


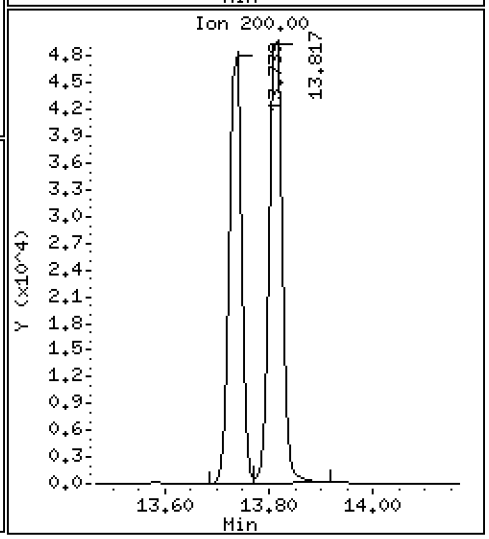












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

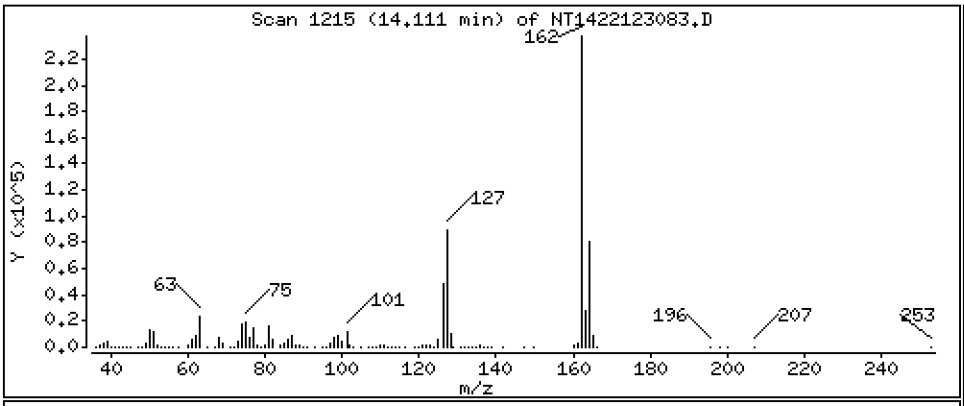
Operator: VTS

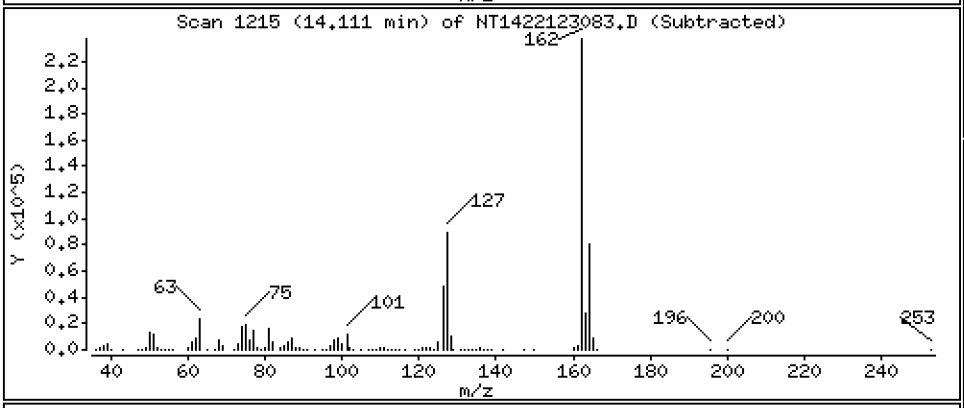
Column phase: ZB-5msi

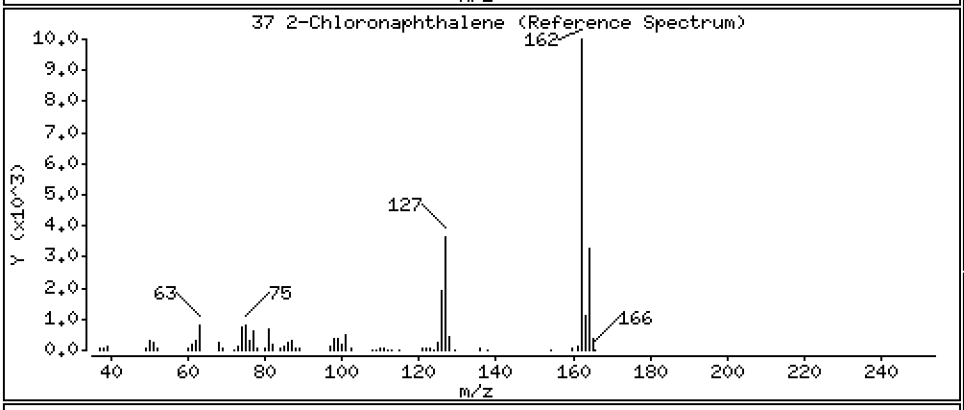
Column diameter: 0.25

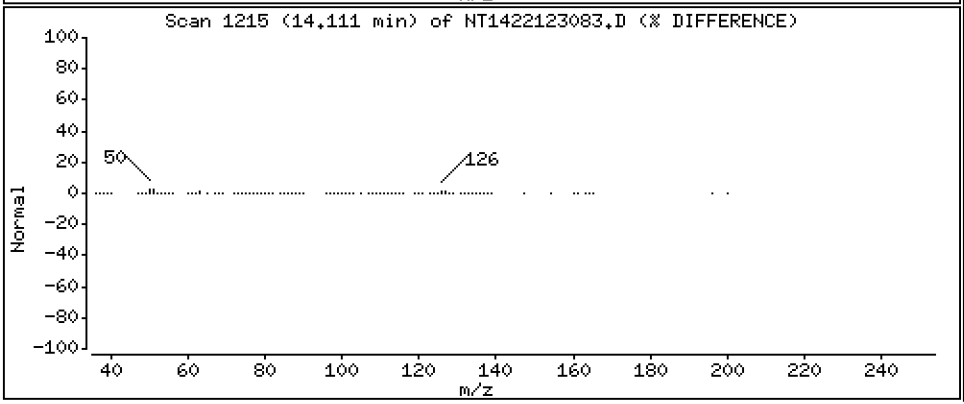
37 2-Chloronaphthalene

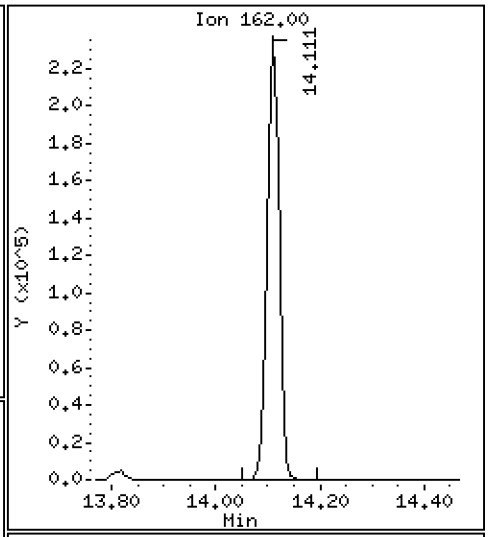
Concentration: 4.581 ug/mL

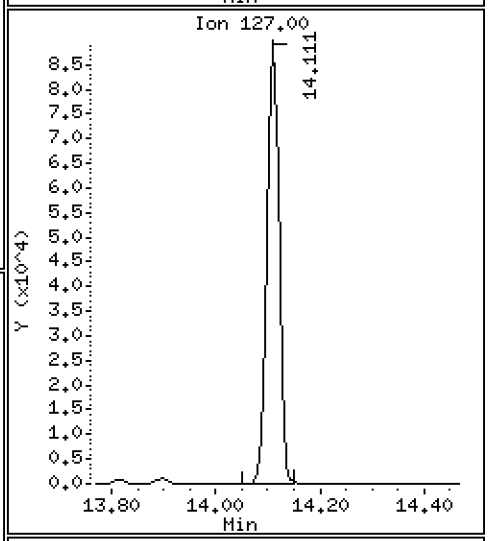


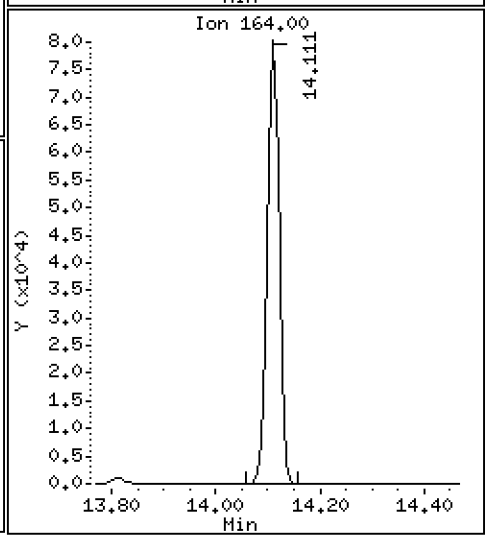












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

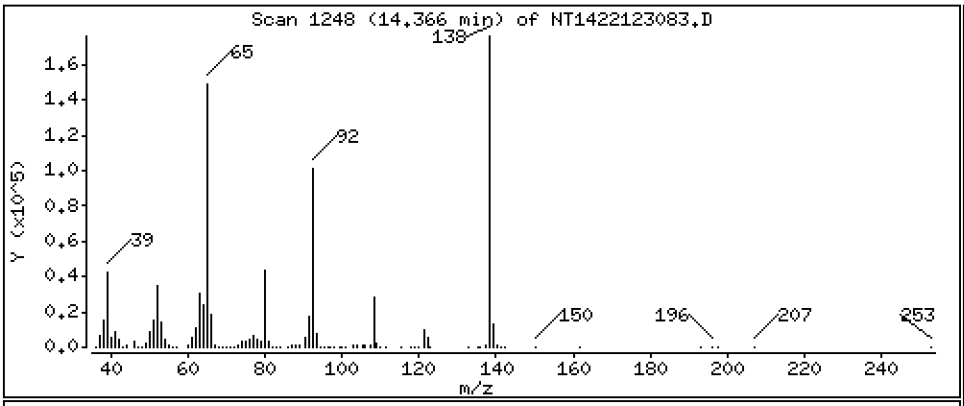
Operator: VTS

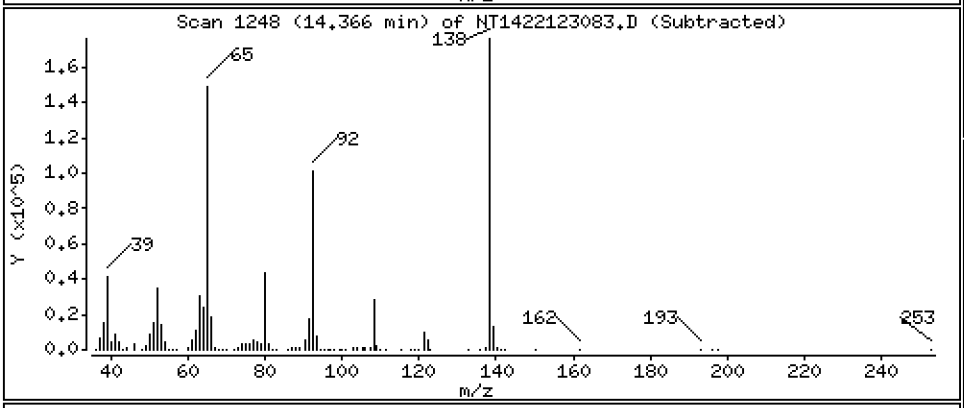
Column phase: ZB-5msi

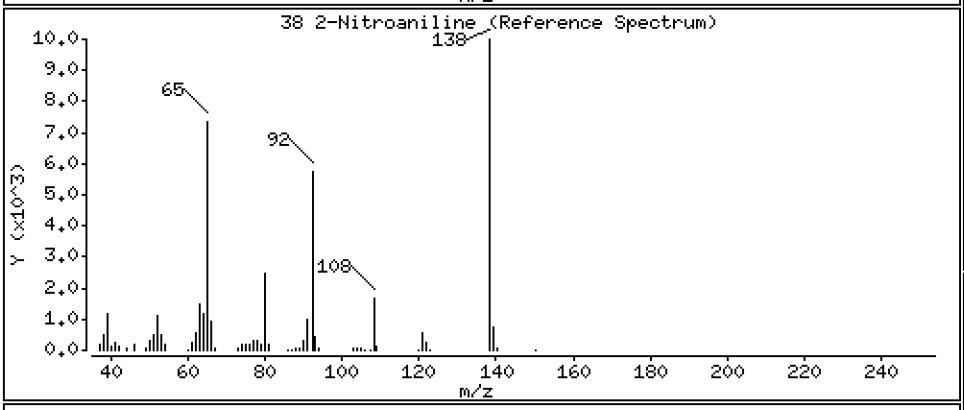
Column diameter: 0.25

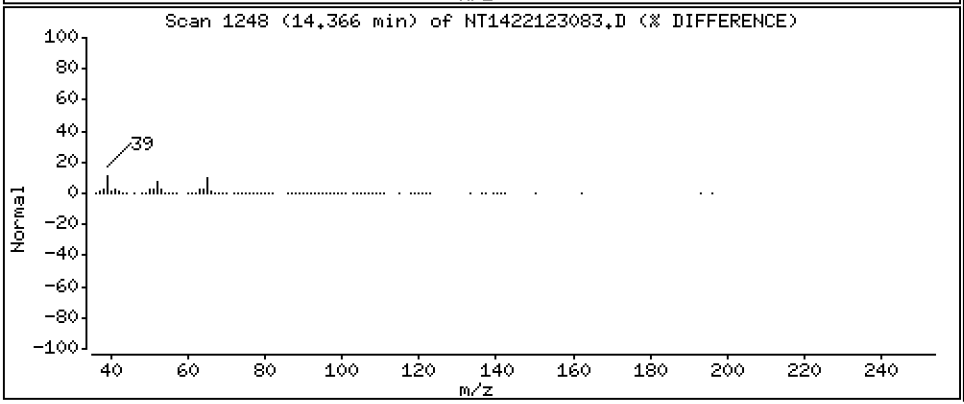
38 2-Nitroaniline

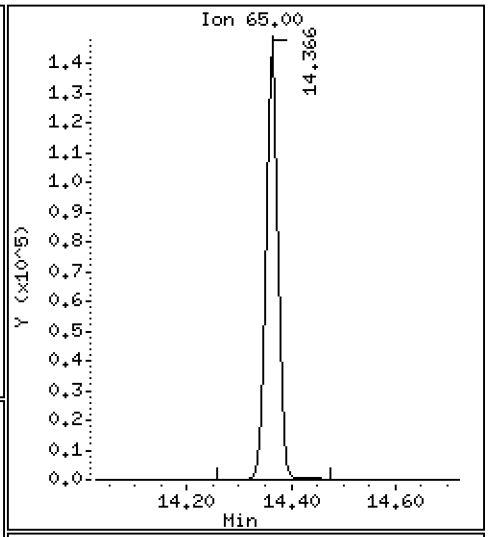
Concentration: 11.27 ug/mL

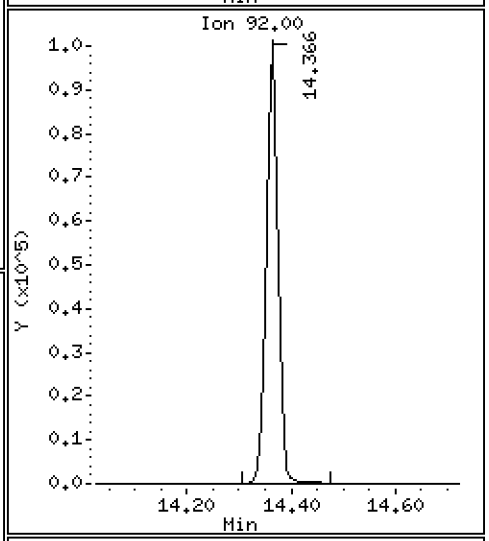


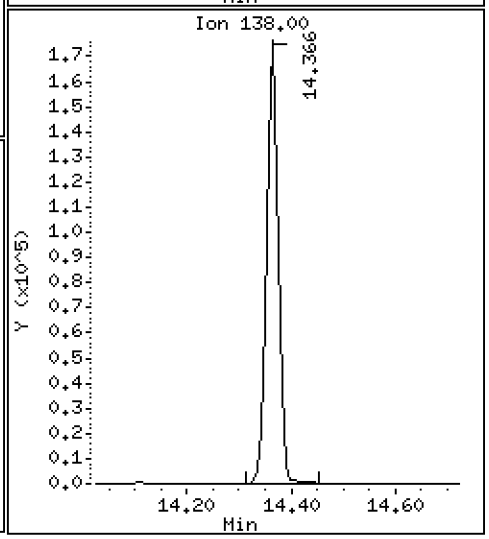












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

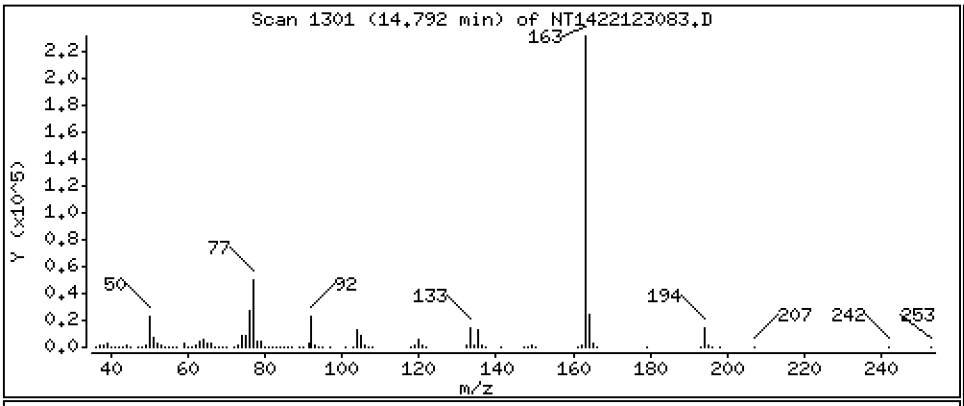
Operator: VTS

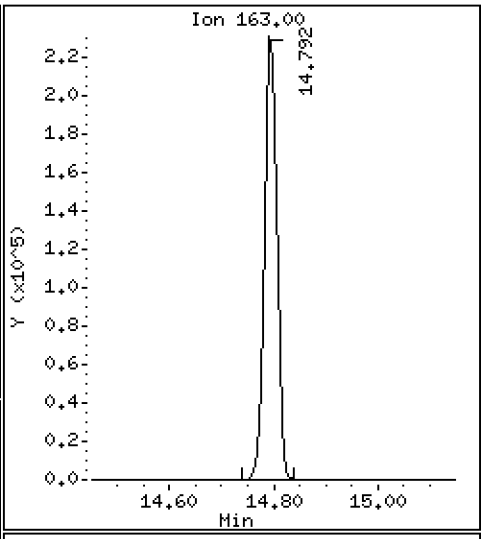
Column phase: ZB-5msi

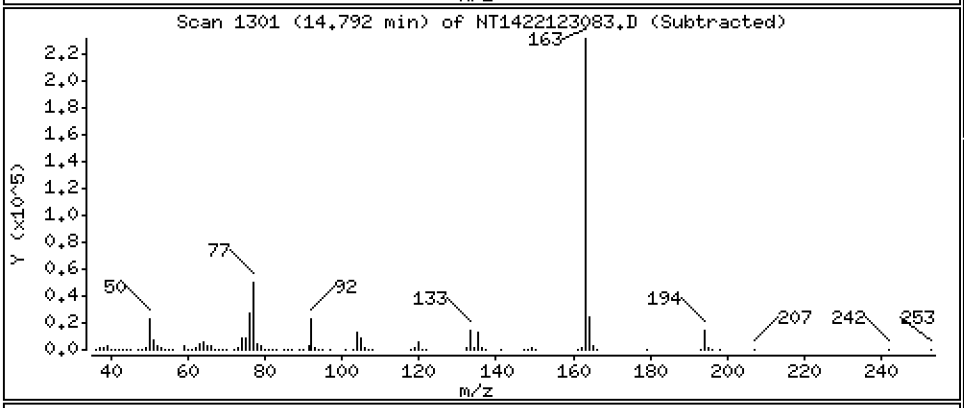
Column diameter: 0.25

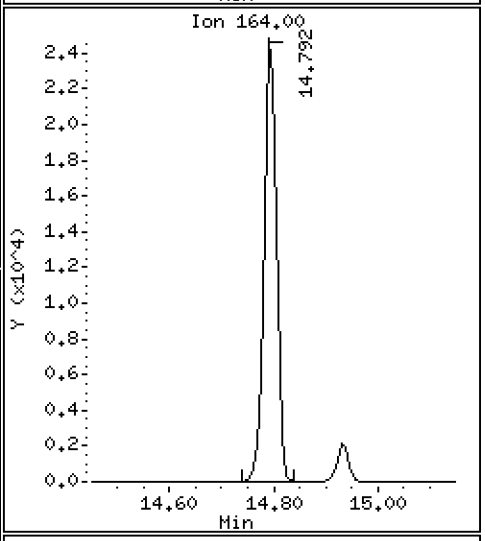
39 Dimethylphthalate

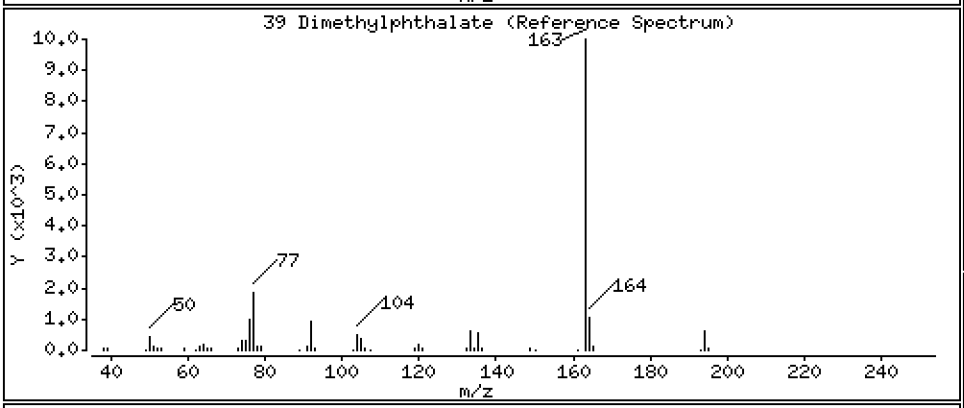
Concentration: 4.791 ug/mL

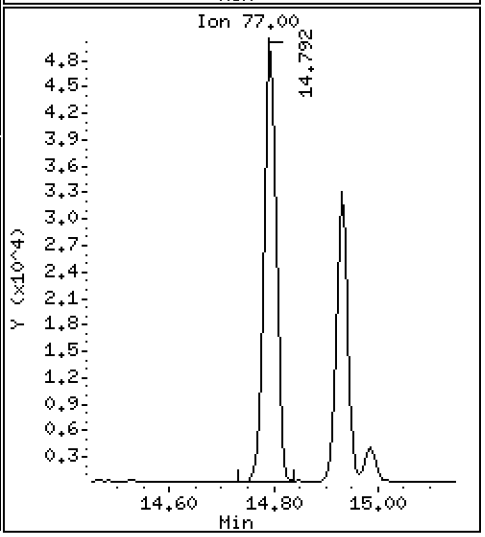


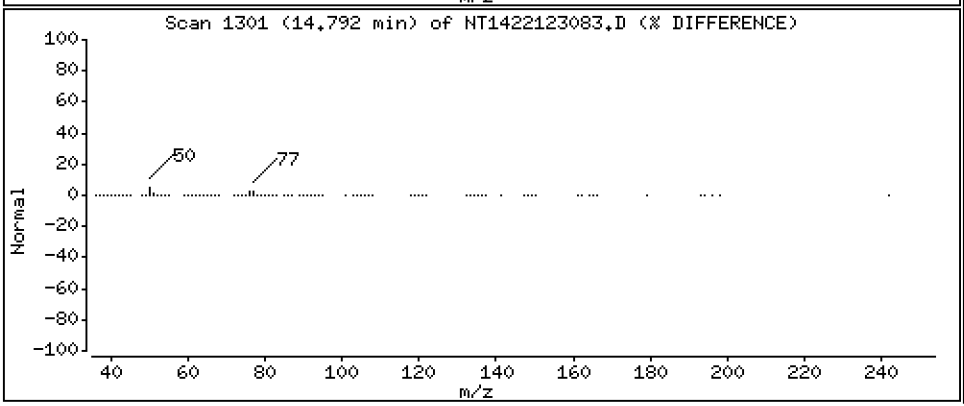












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

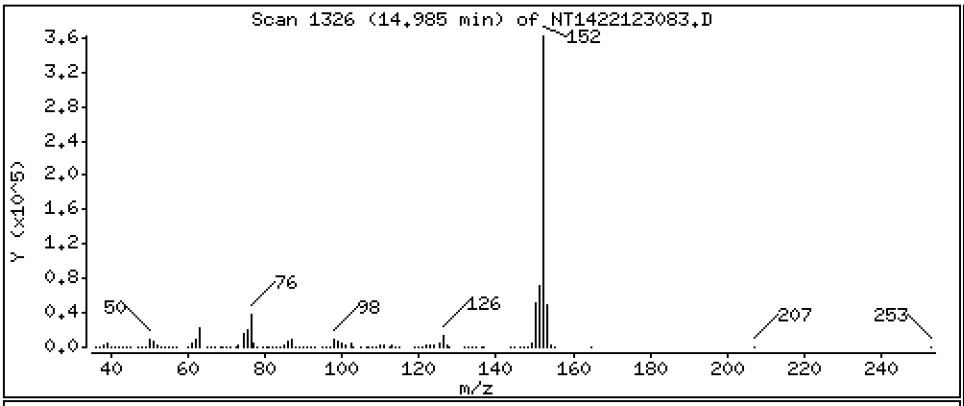
Operator: VTS

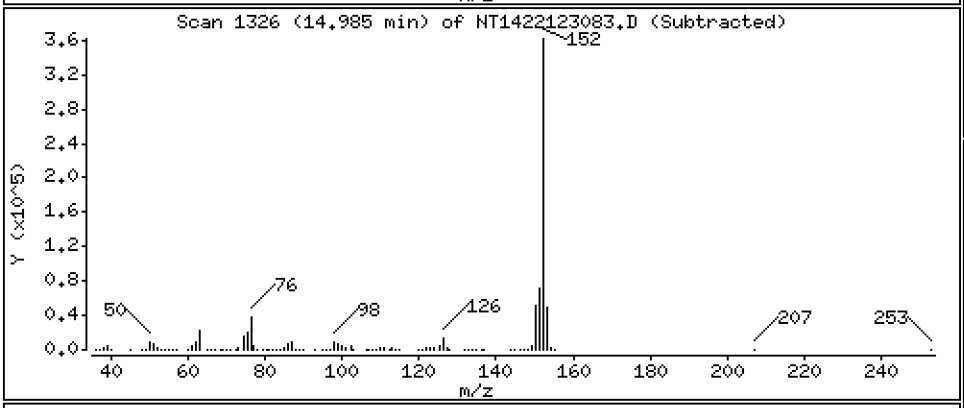
Column phase: ZB-5msi

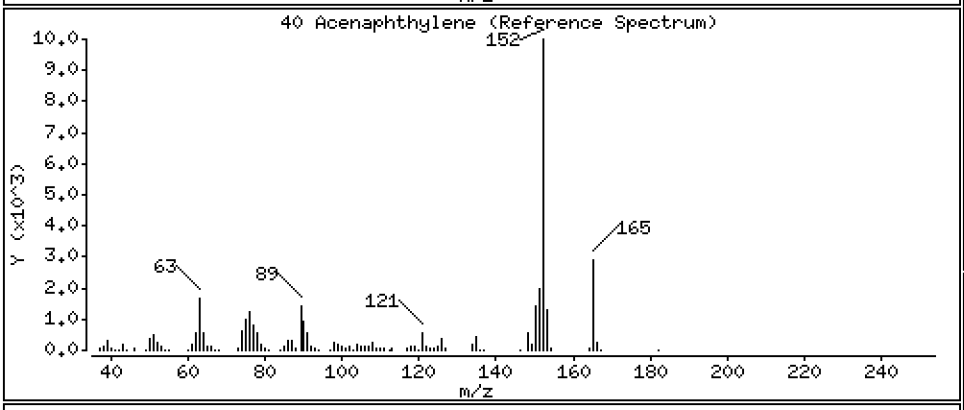
Column diameter: 0.25

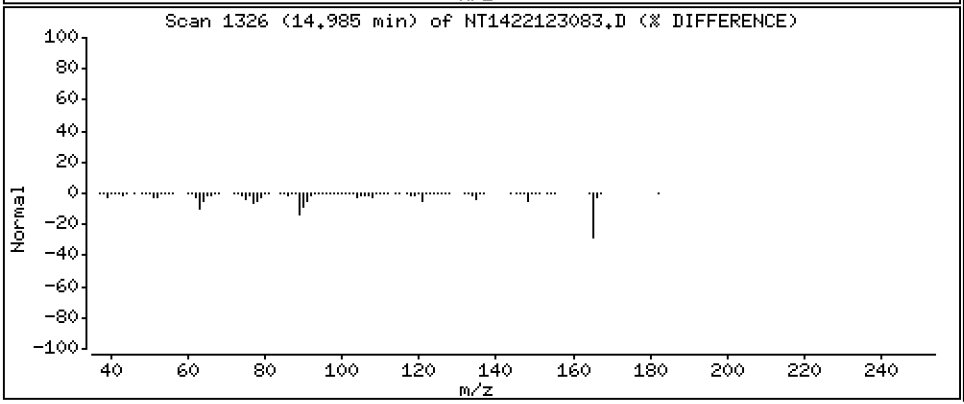
40 Acenaphthylene

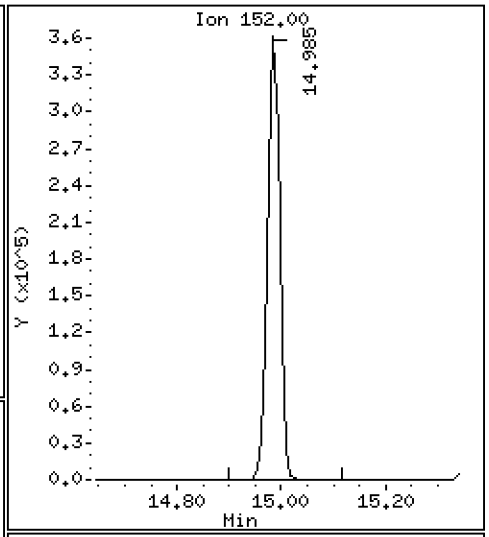
Concentration: 5.043 ug/mL

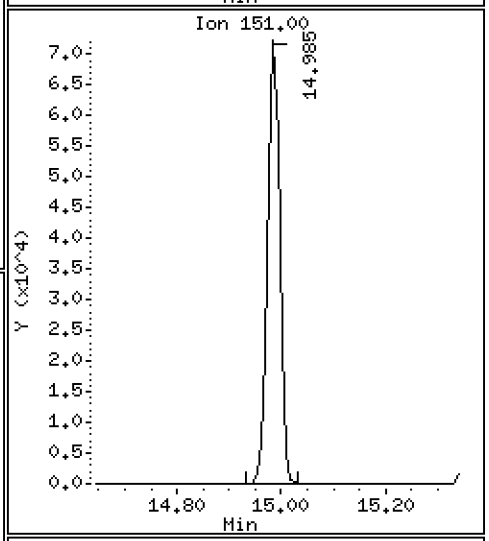


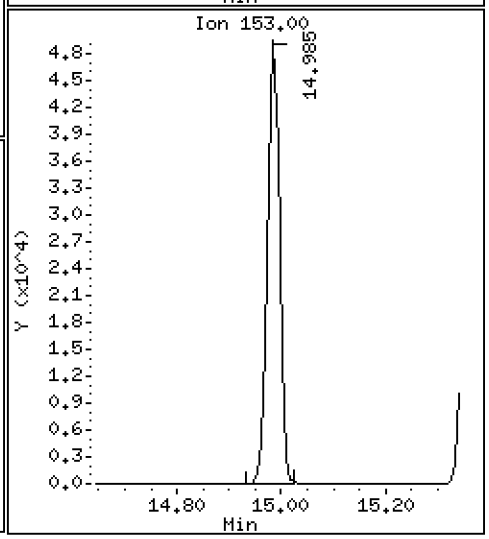












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

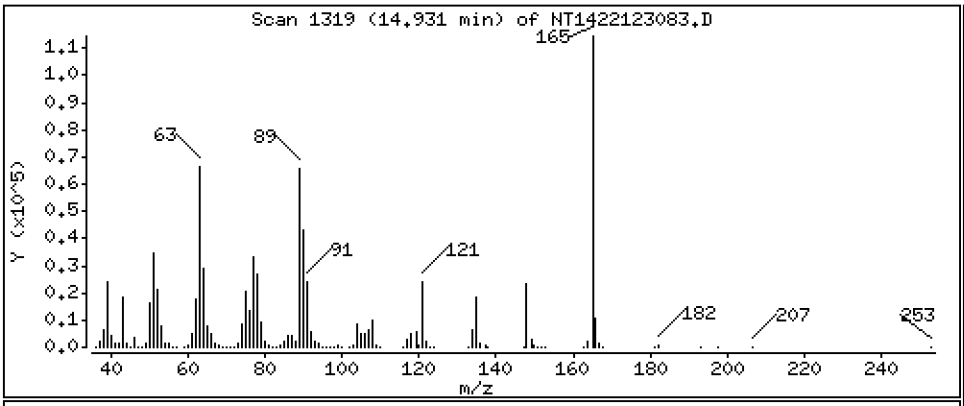
Operator: VTS

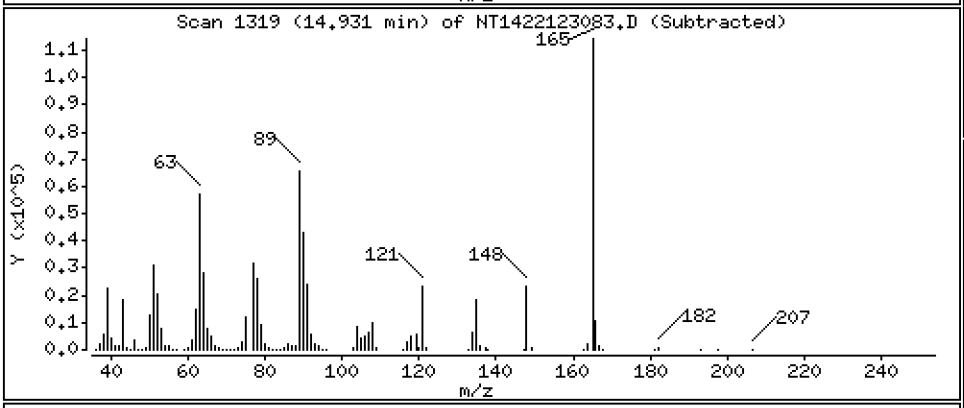
Column phase: ZB-5msi

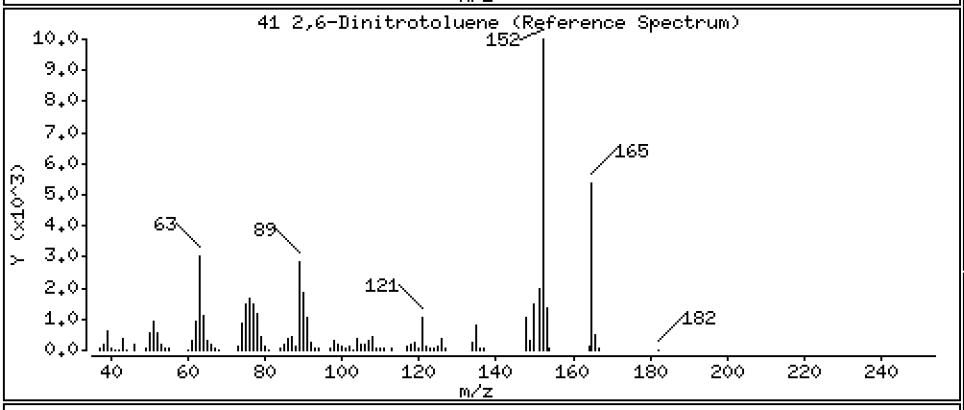
Column diameter: 0.25

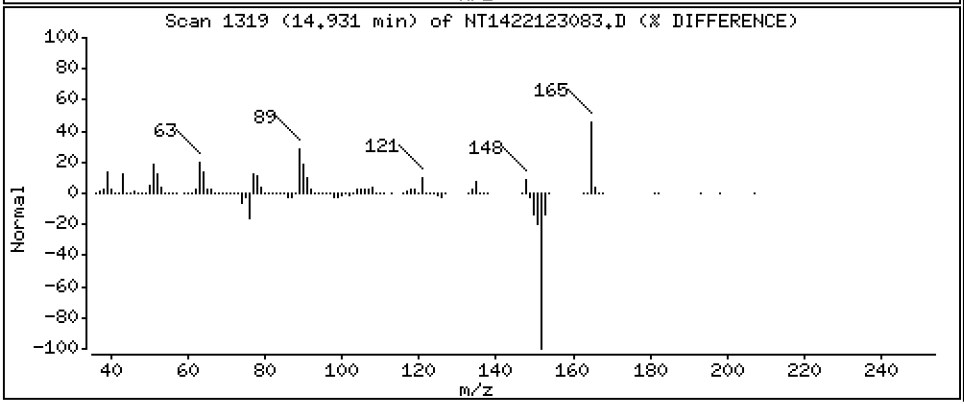
41 2,6-Dinitrotoluene

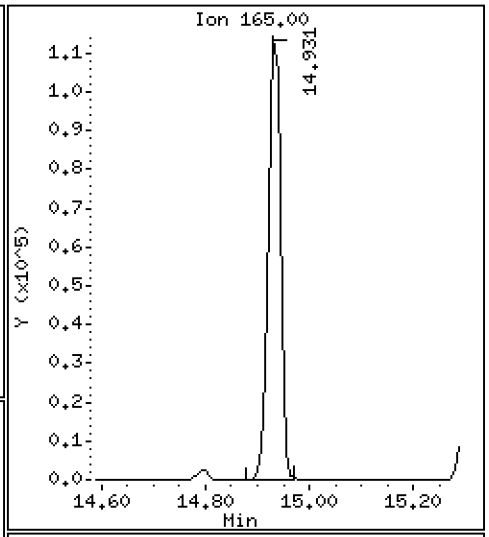
Concentration: 10.14 ug/mL

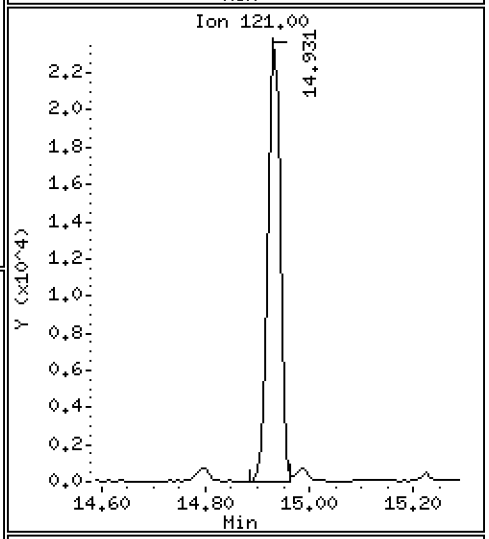


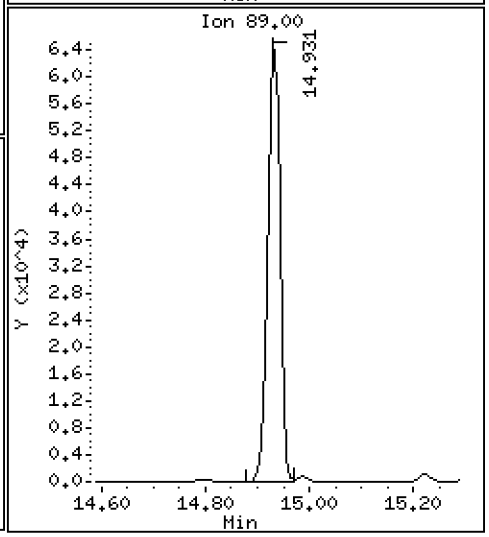












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

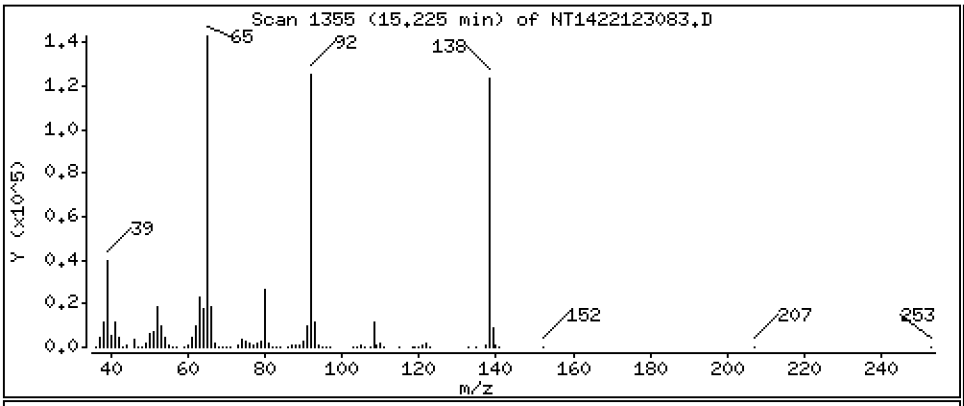
Operator: VTS

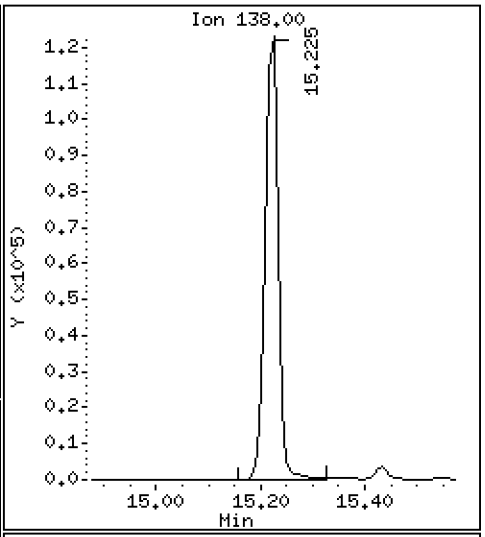
Column phase: ZB-5msi

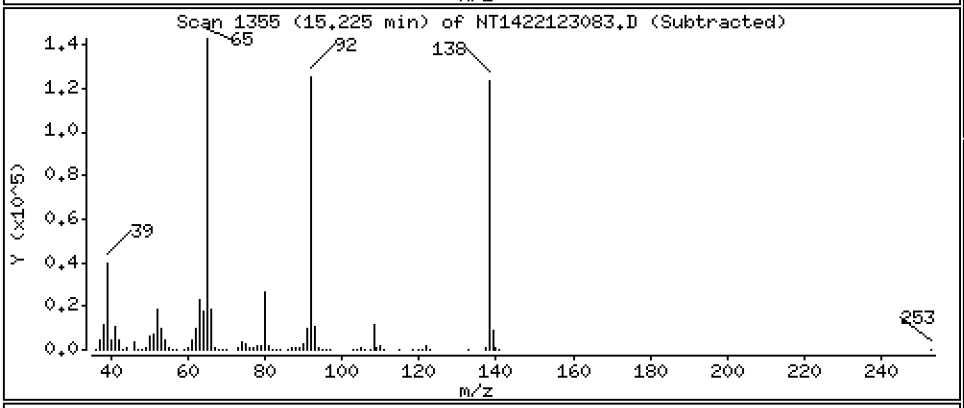
Column diameter: 0.25

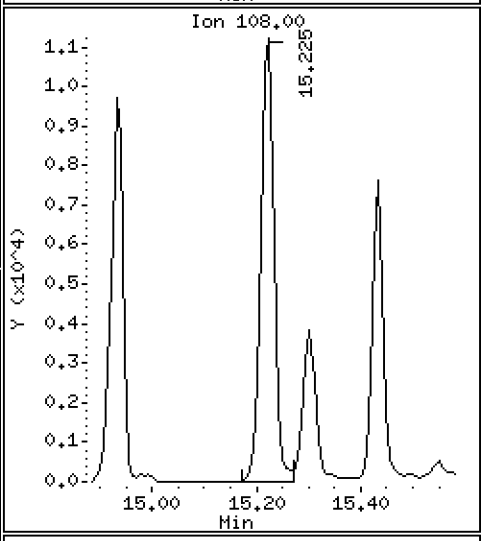
43 3-Nitroaniline

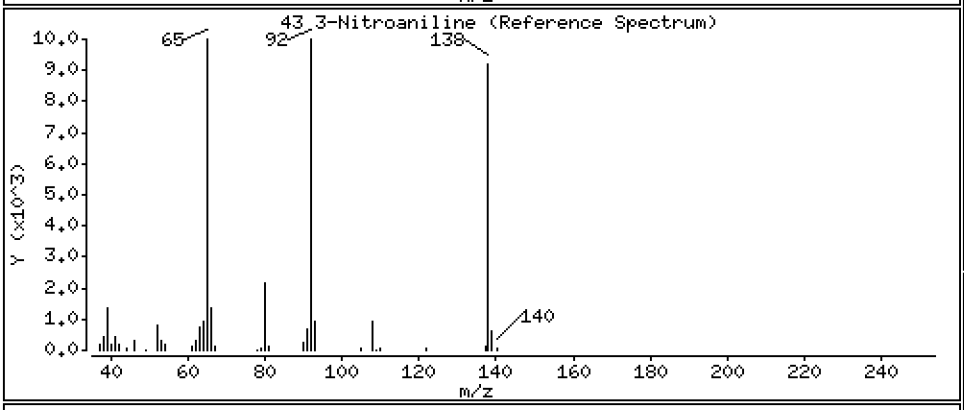
Concentration: 9.682 ug/mL

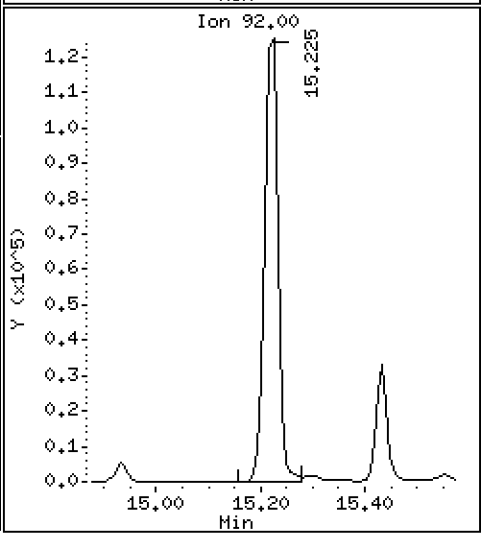


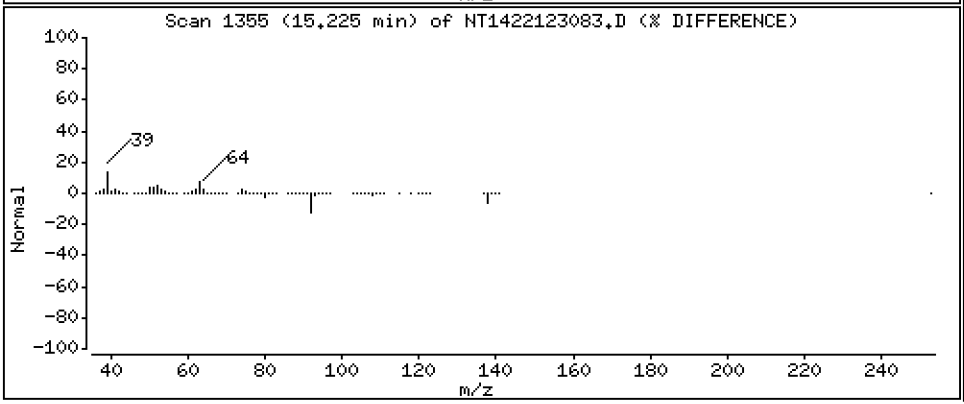












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

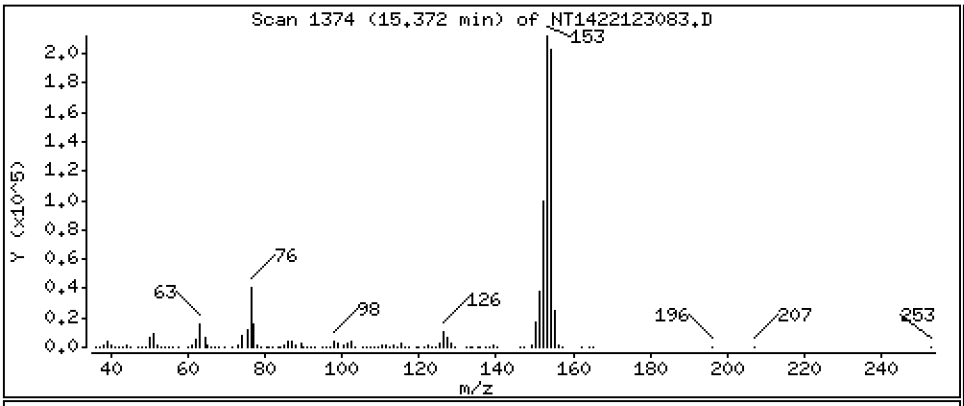
Operator: VTS

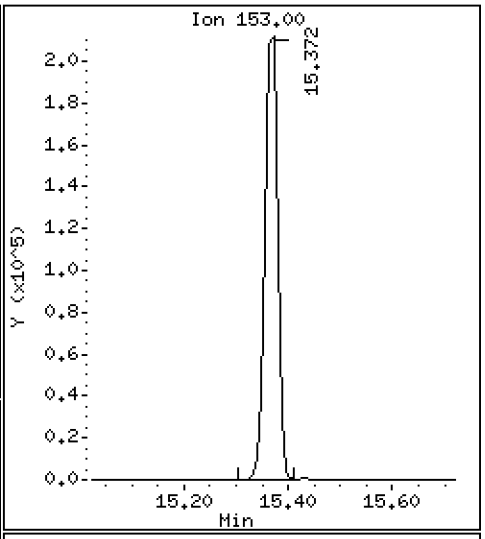
Column phase: ZB-5msi

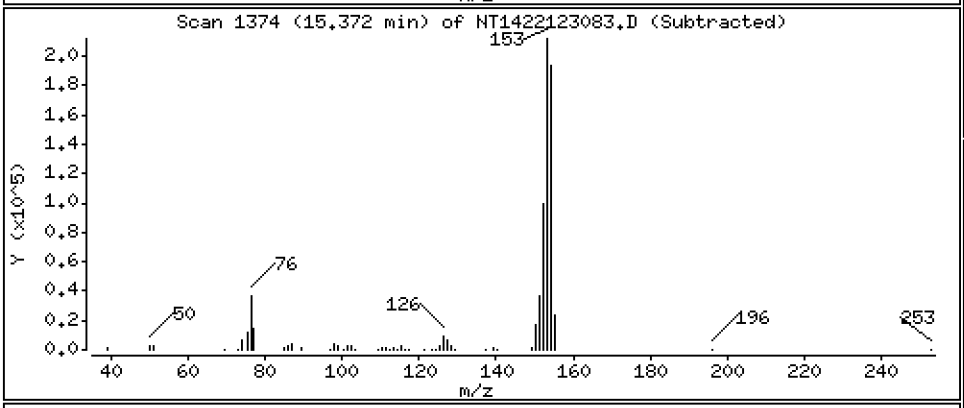
Column diameter: 0.25

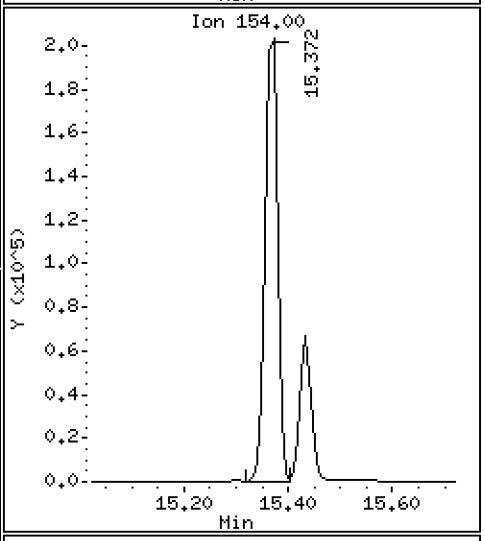
44 Acenaphthene

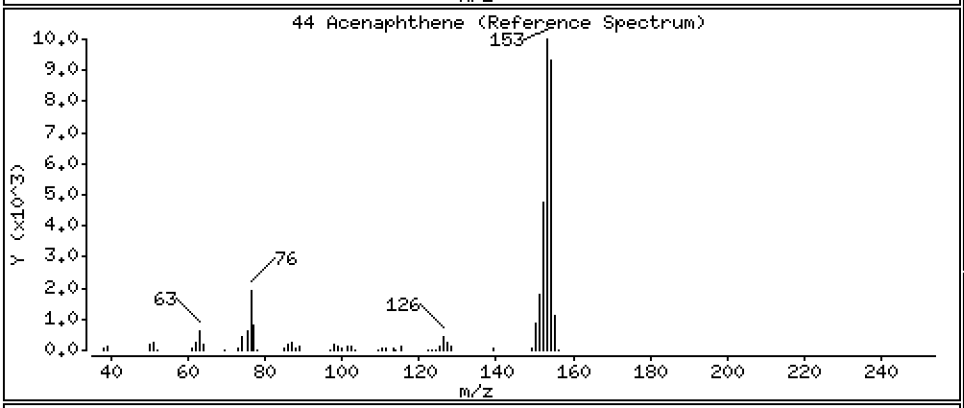
Concentration: 4.621 ug/mL

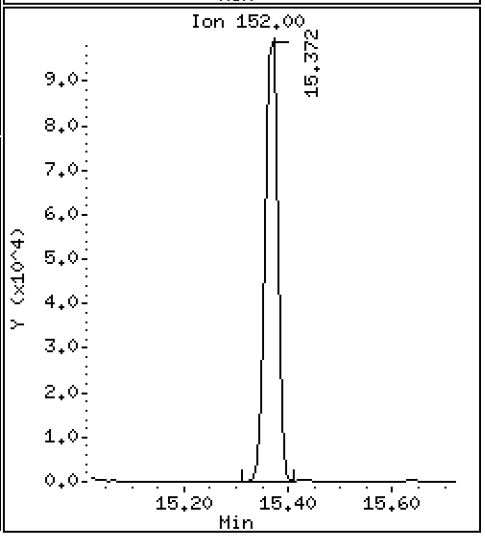


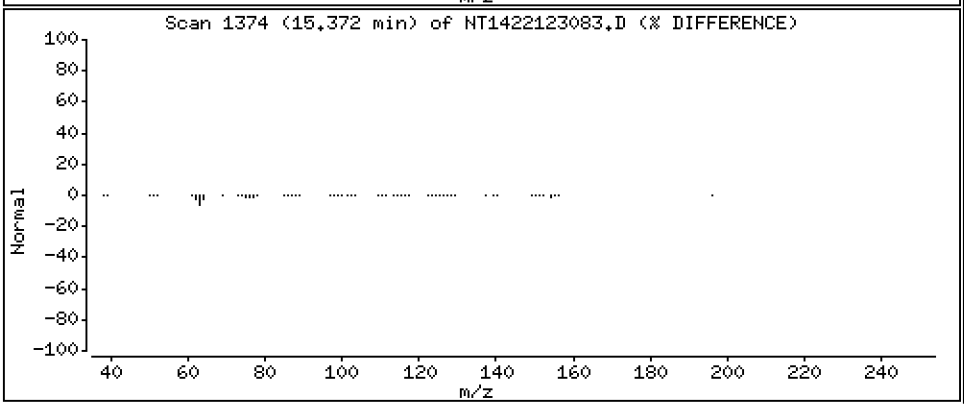












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

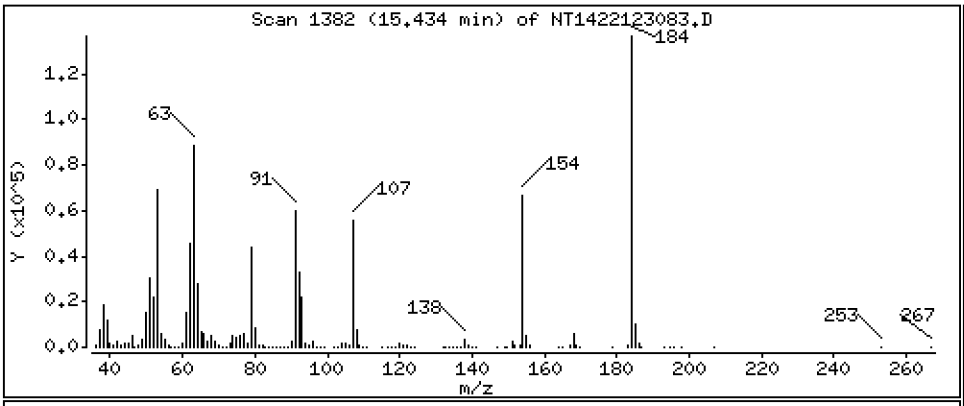
Operator: VTS

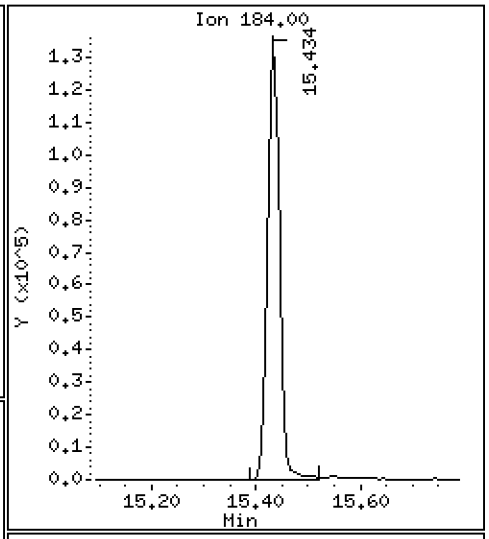
Column phase: ZB-5msi

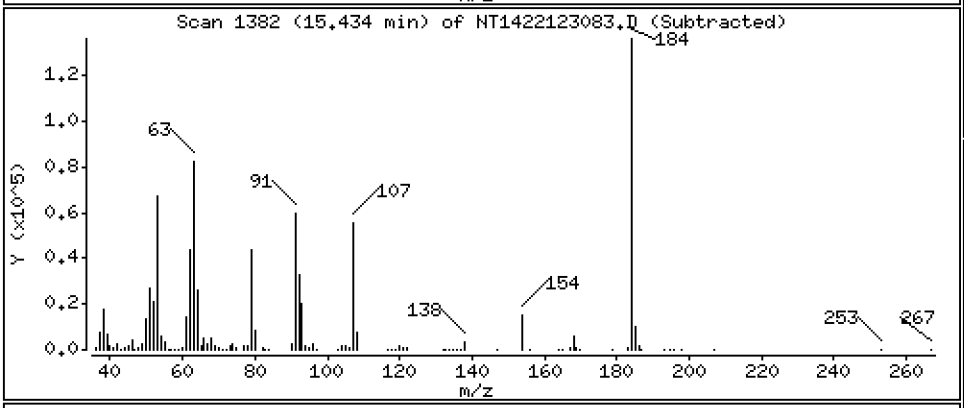
Column diameter: 0.25

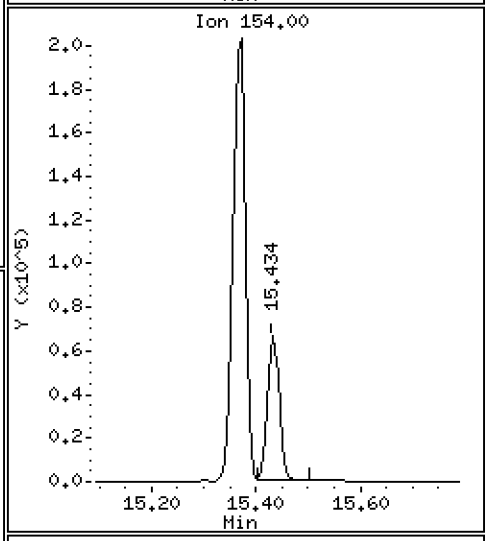
45 2,4-Dinitrophenol

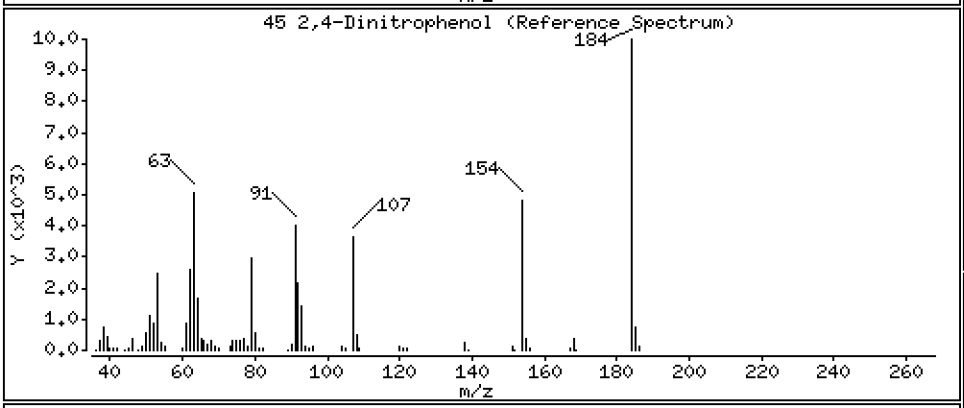
Concentration: 13.30 ug/mL

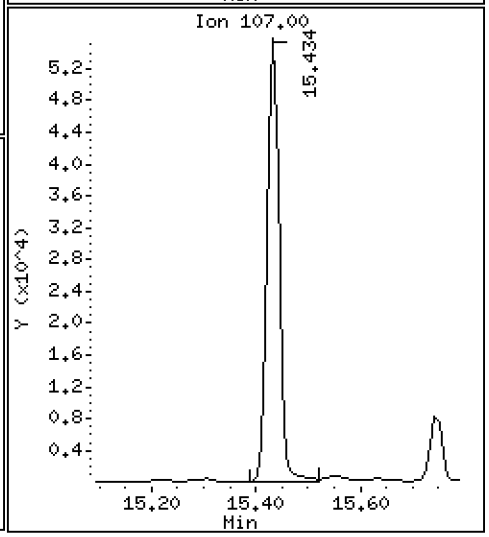


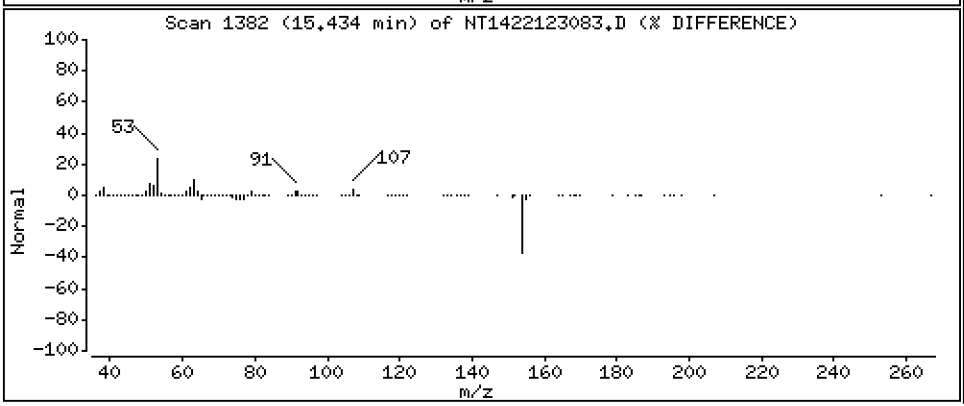












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

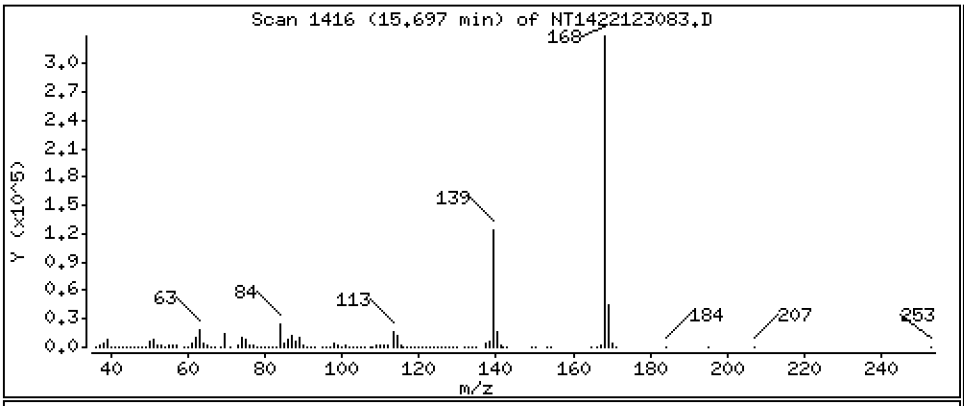
Operator: VTS

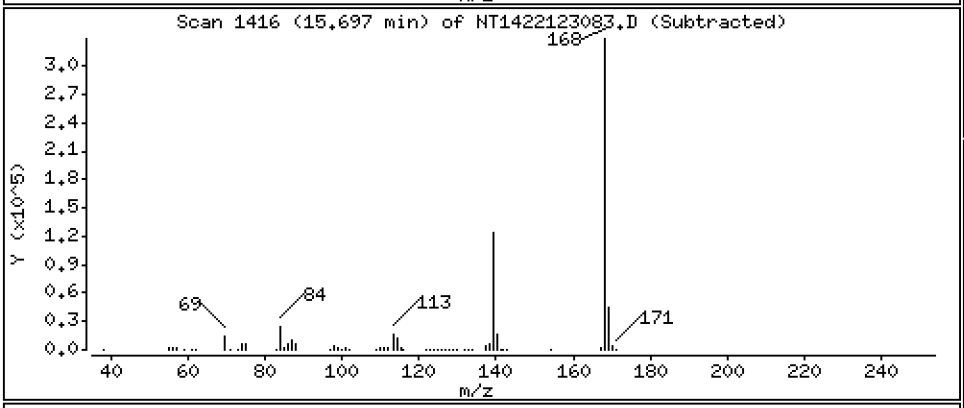
Column phase: ZB-5msi

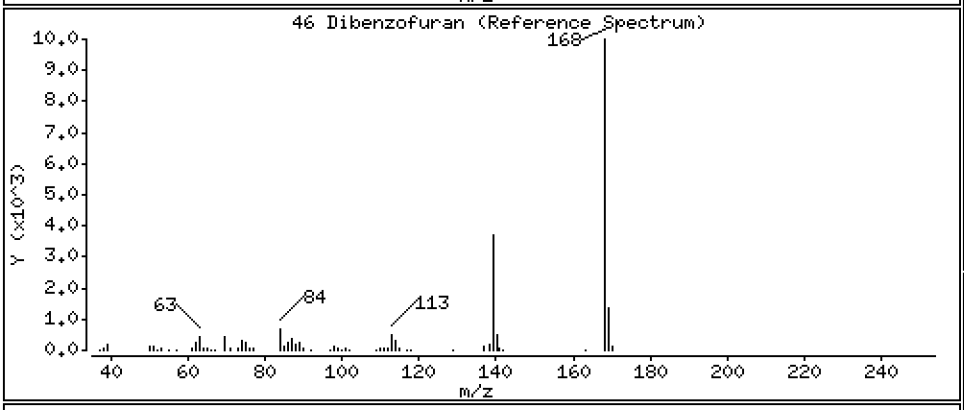
Column diameter: 0.25

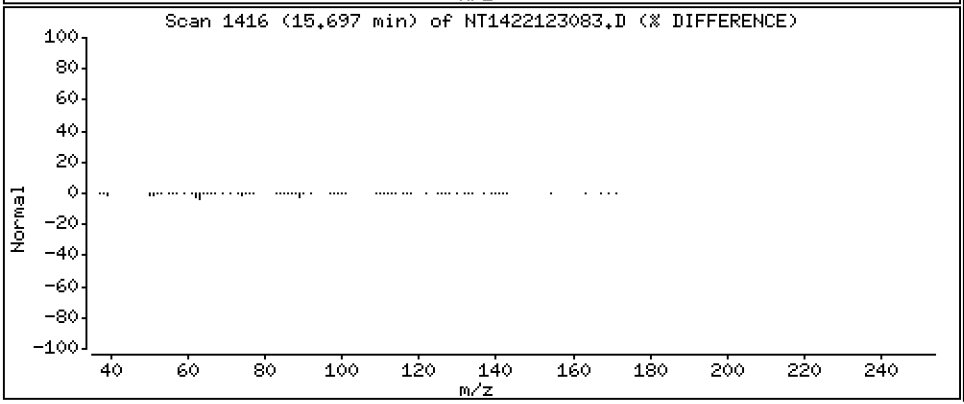
46 Dibenzofuran

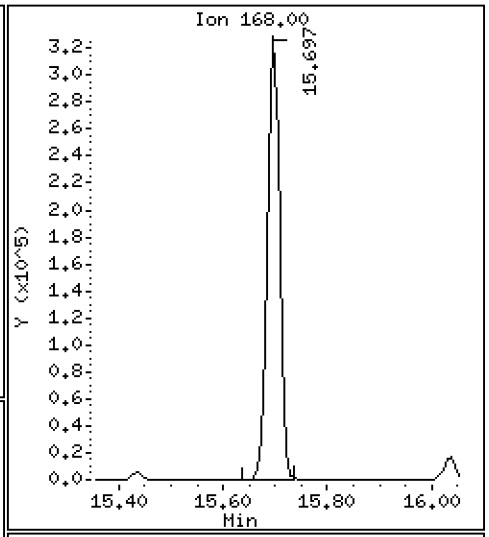
Concentration: 4.517 ug/mL

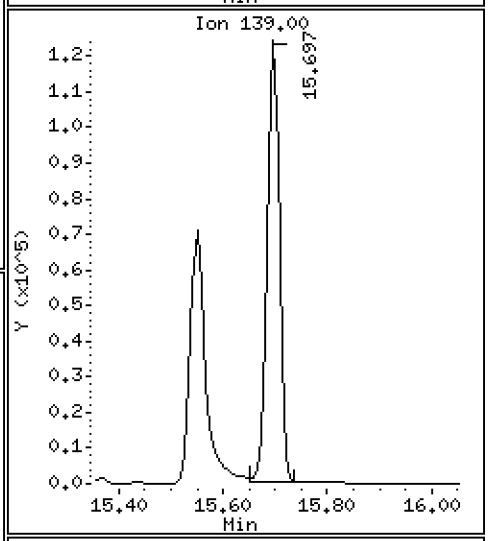


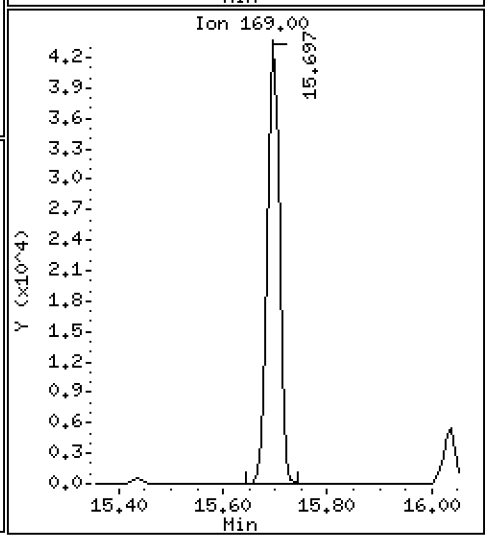












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123083.D

Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

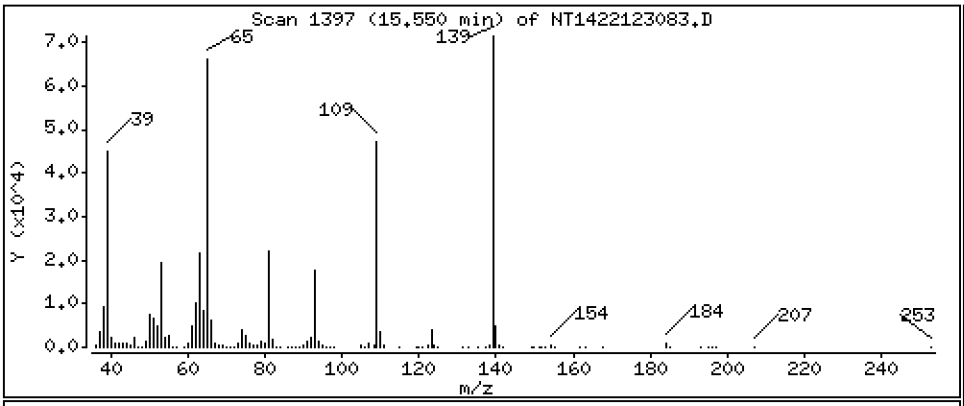
Operator: VTS

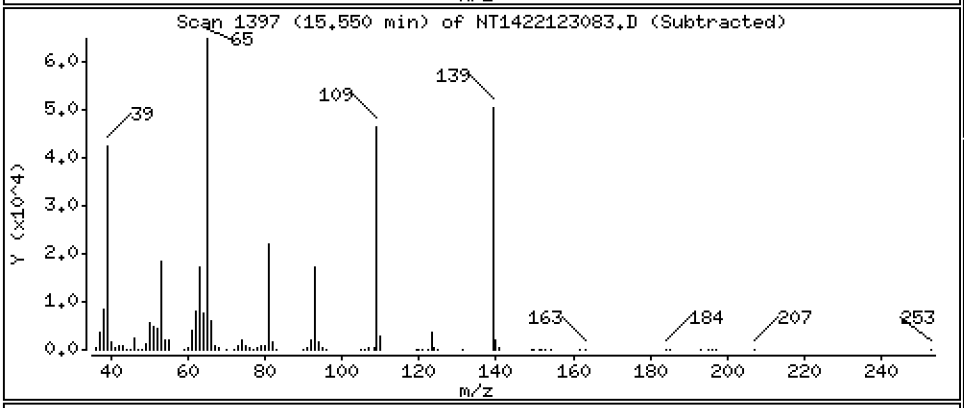
Column phase: ZB-5msi

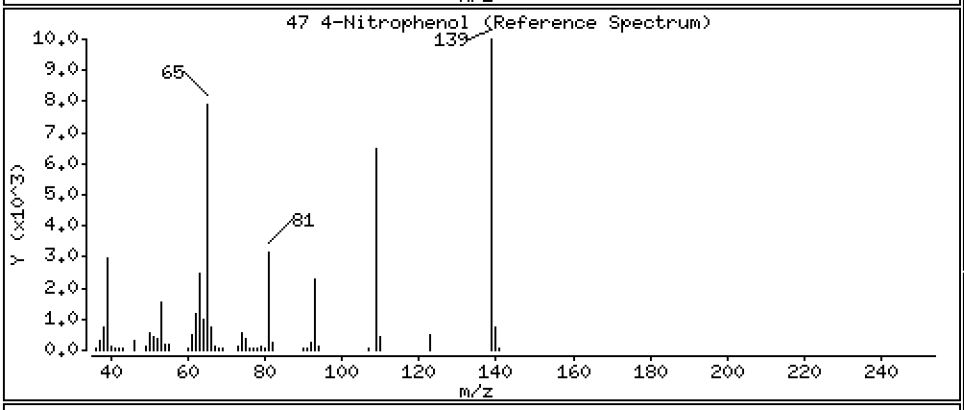
Column diameter: 0.25

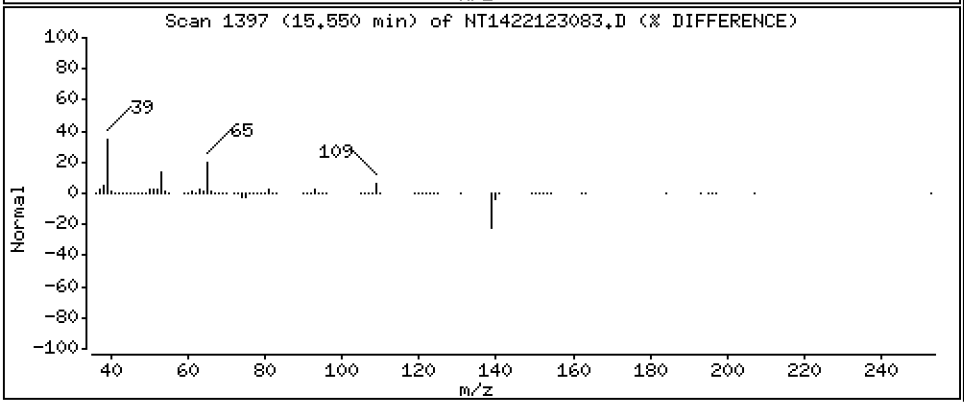
47 4-Nitrophenol

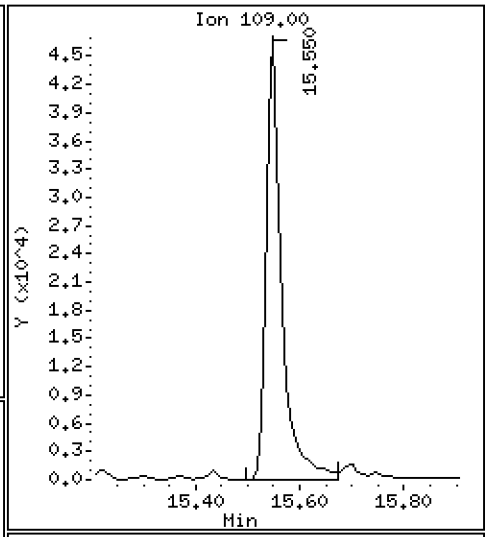
Concentration: 9.201 ug/mL

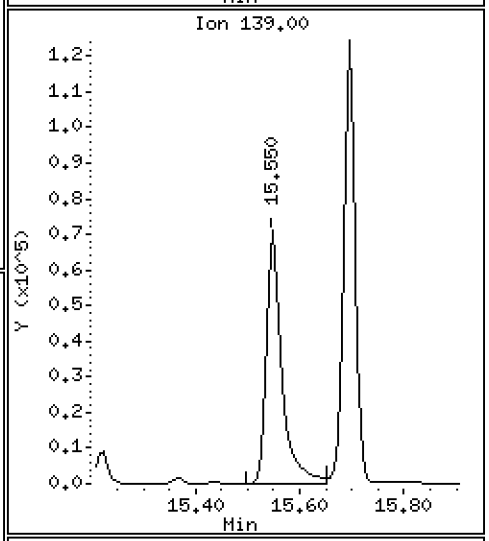


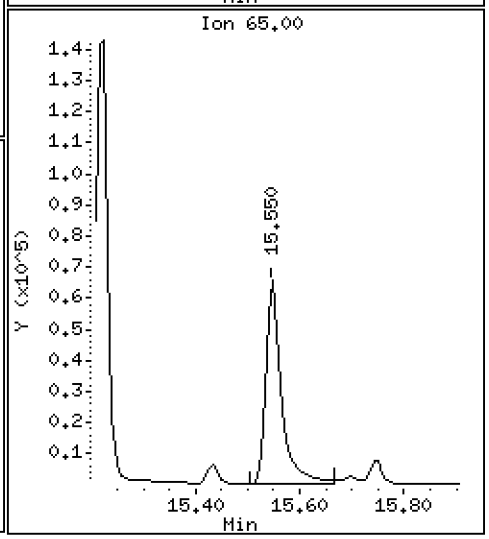












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

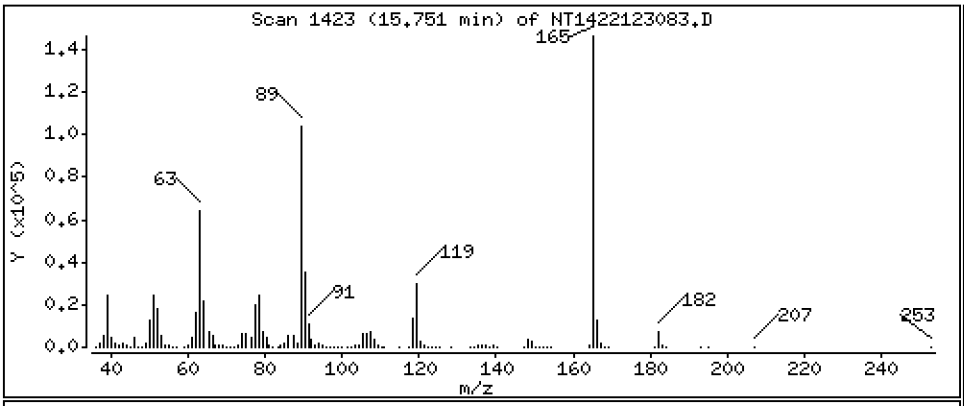
Operator: VTS

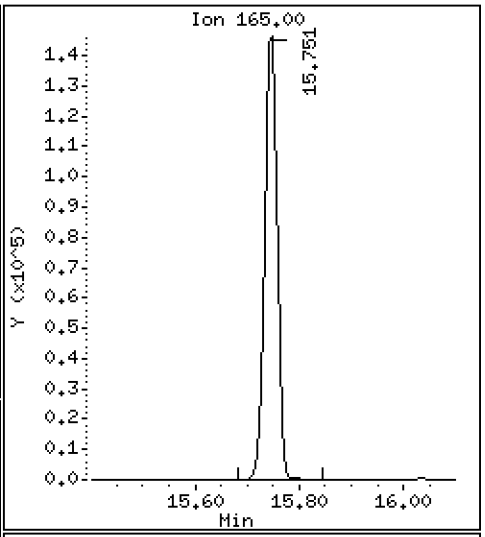
Column phase: ZB-5msi

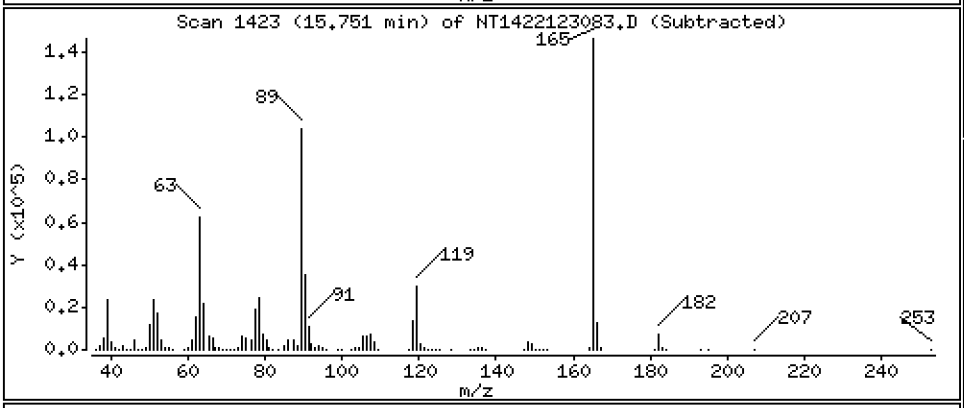
Column diameter: 0.25

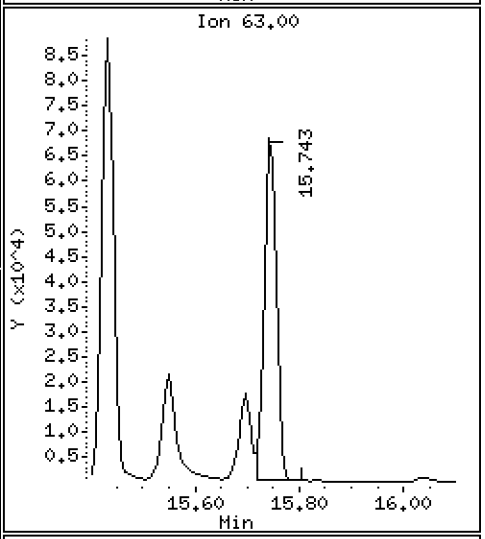
48 2,4-Dinitrotoluene

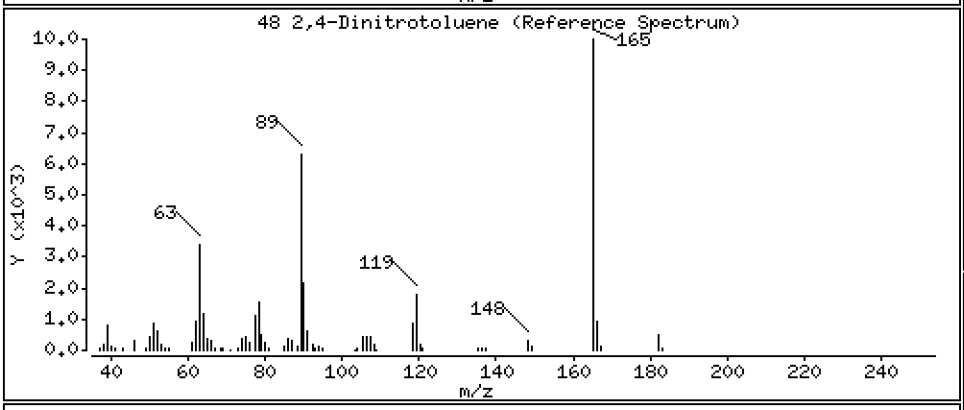
Concentration: 9.872 ug/mL

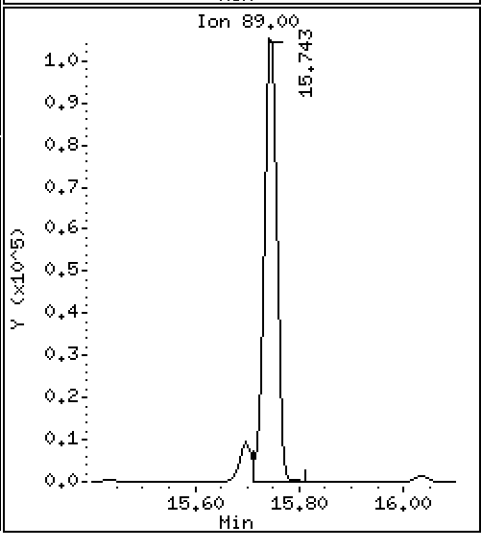


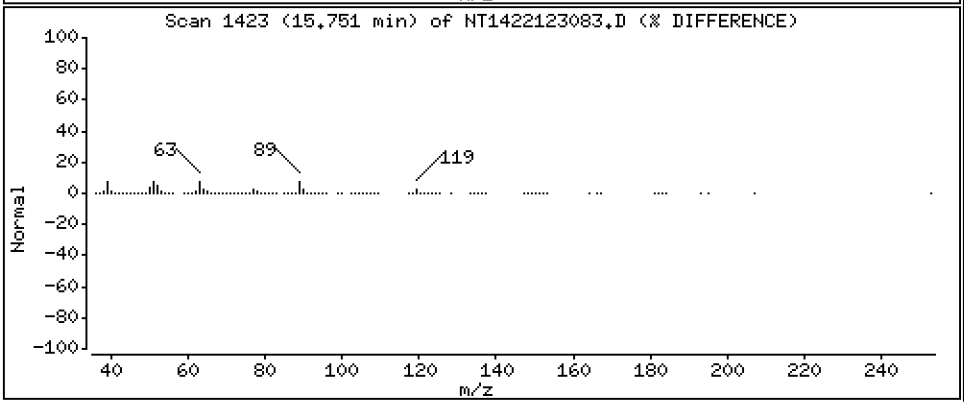












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

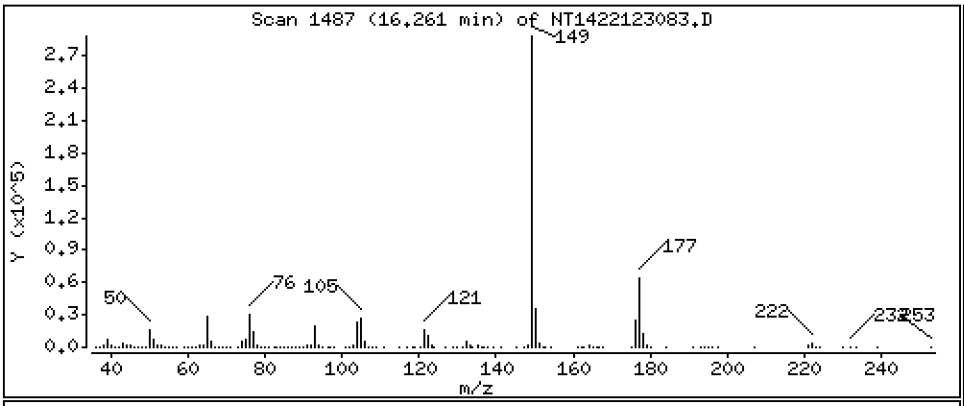
Operator: VTS

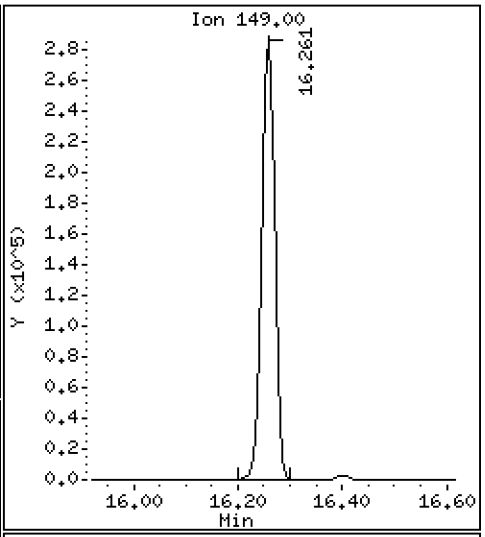
Column phase: ZB-5msi

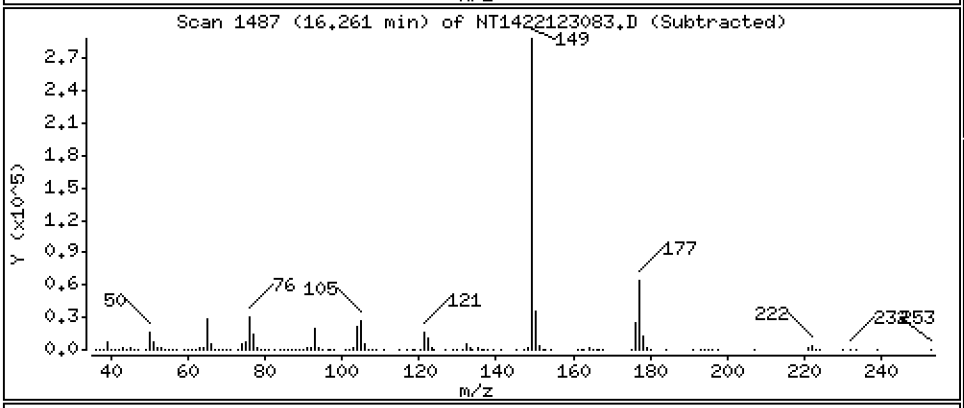
Column diameter: 0.25

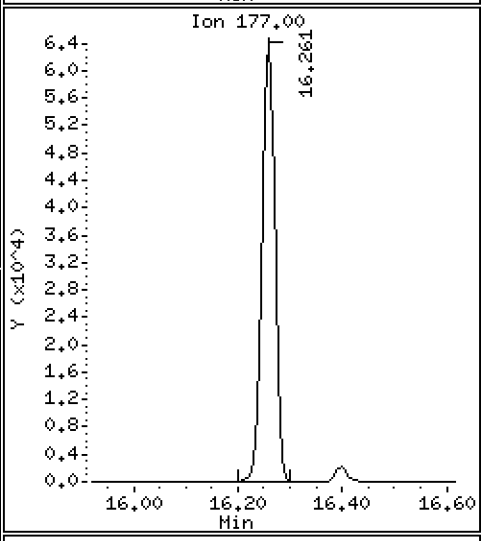
50 Diethylphthalate

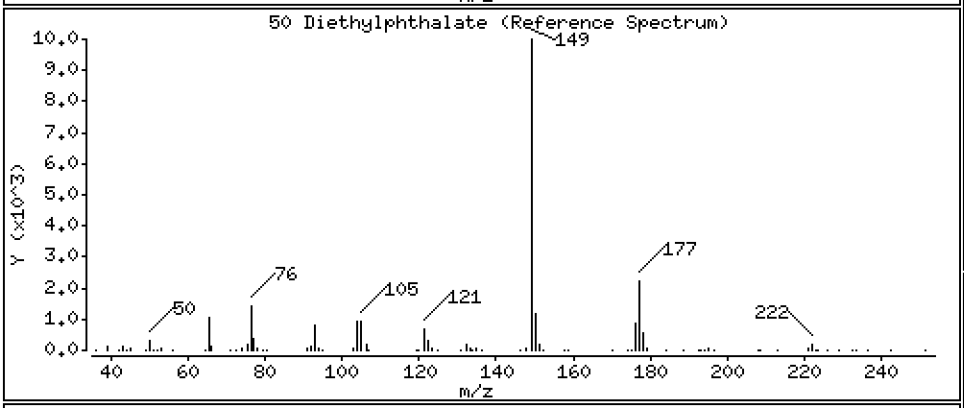
Concentration: 5.374 ug/mL

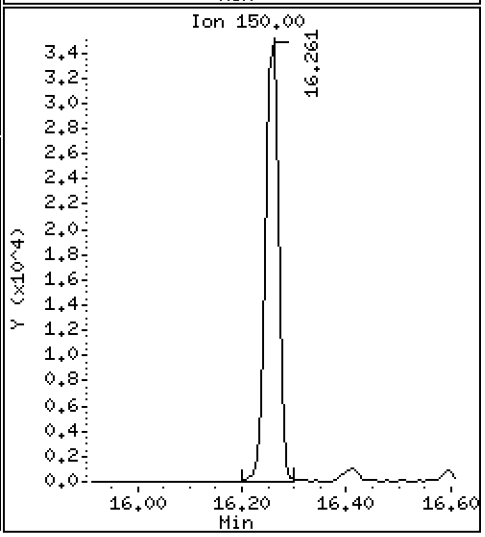


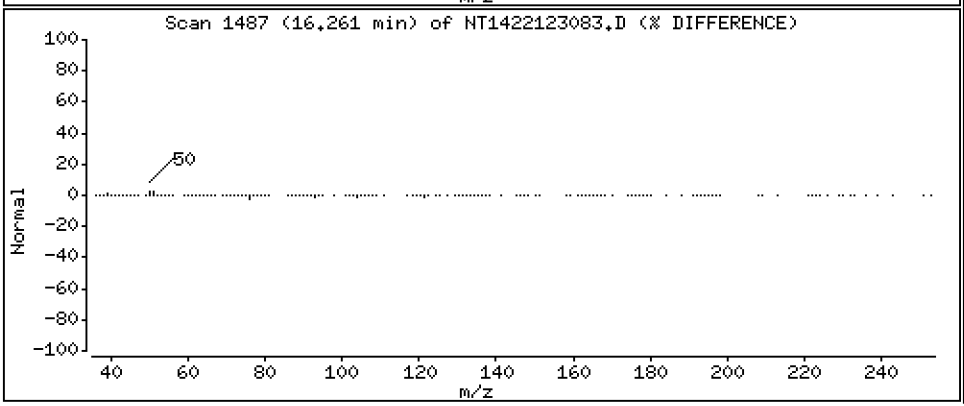












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

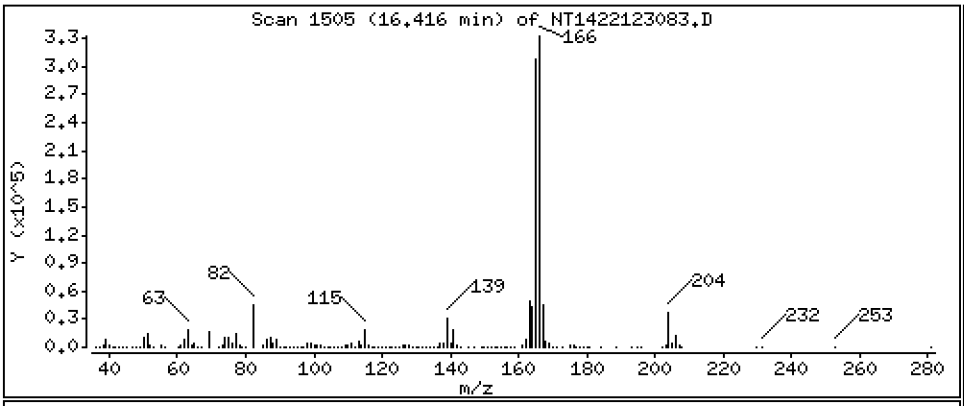
Operator: VTS

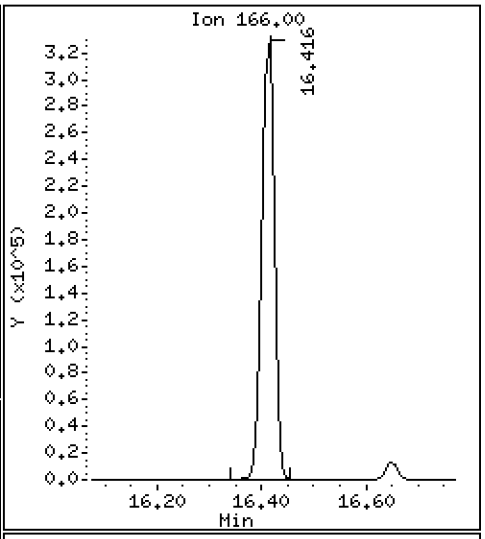
Column phase: ZB-5msi

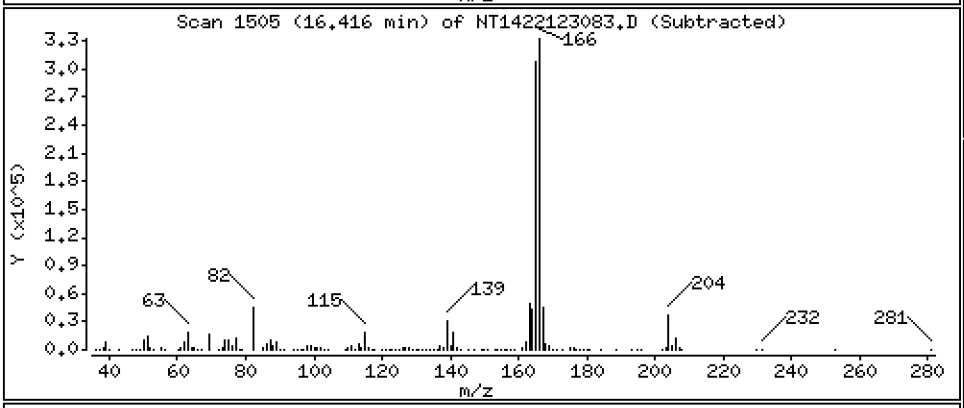
Column diameter: 0.25

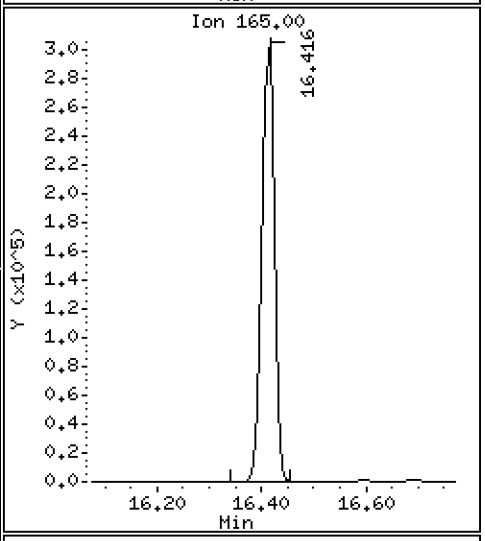
49 Fluorene

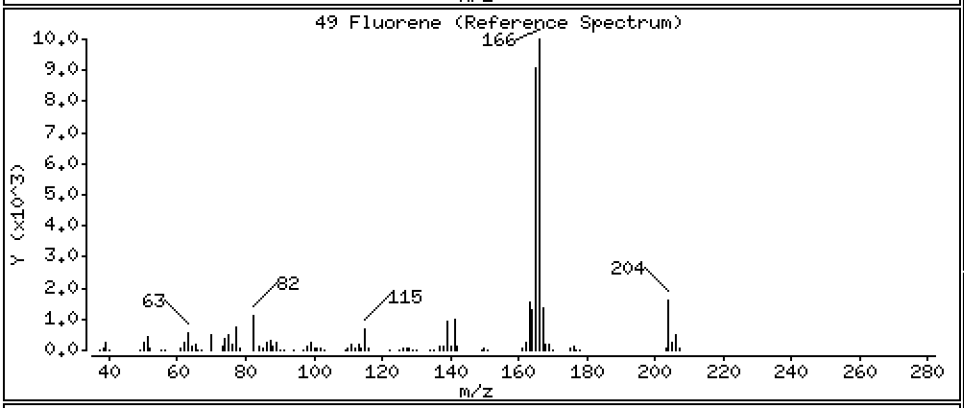
Concentration: 5.123 ug/mL

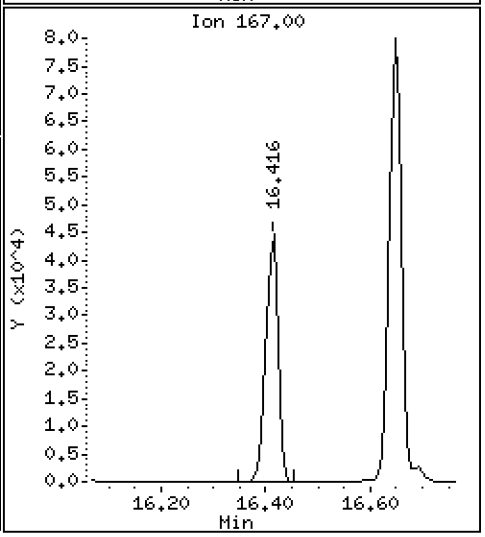


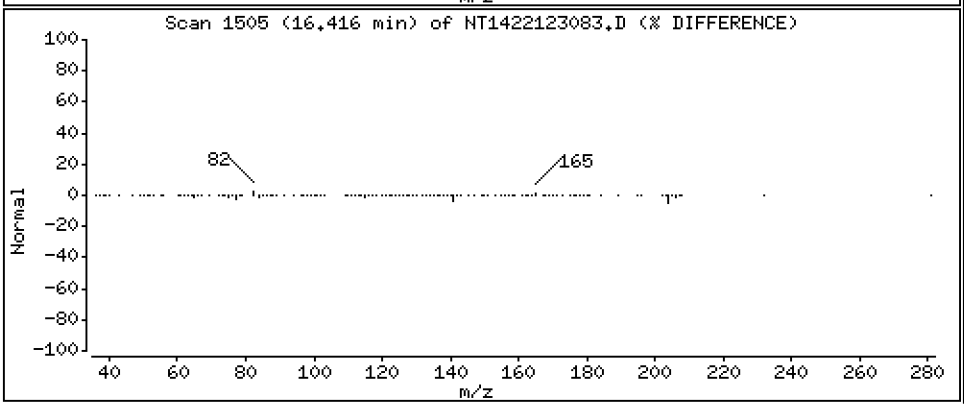












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

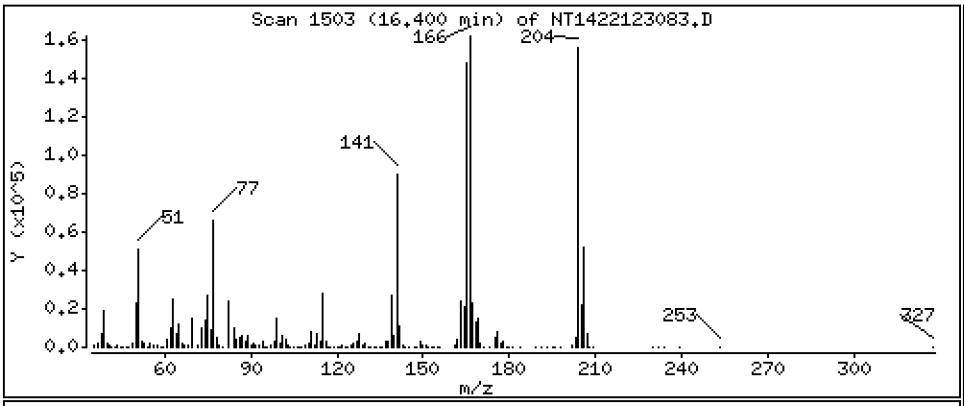
Operator: VTS

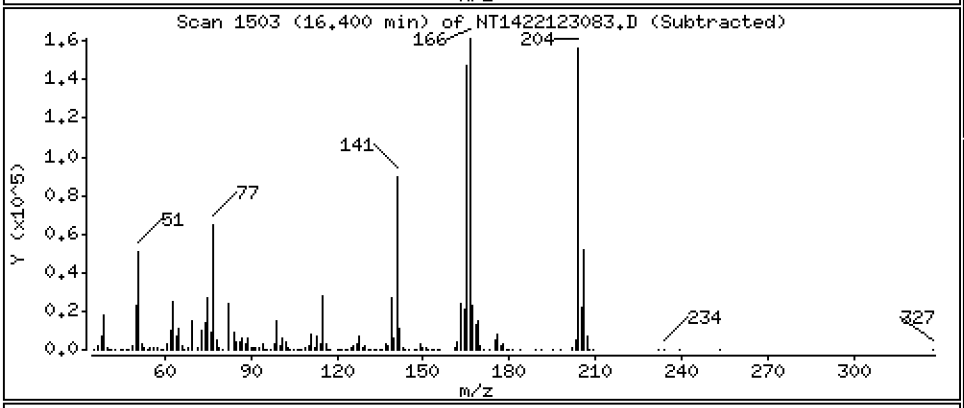
Column phase: ZB-5msi

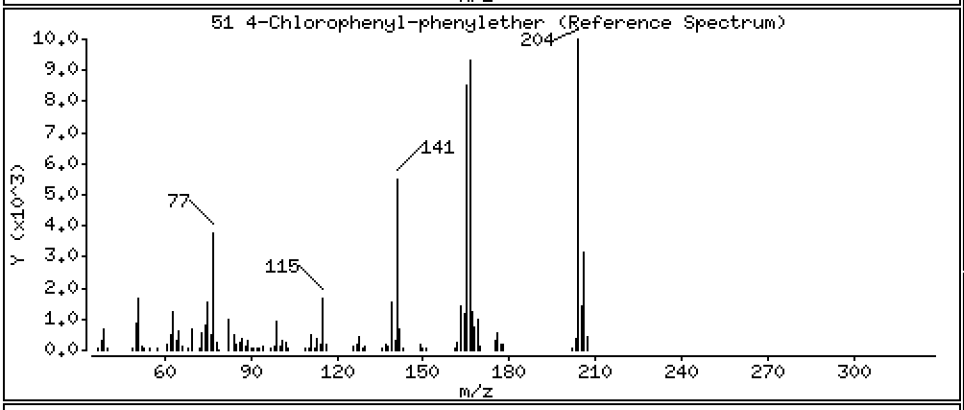
Column diameter: 0.25

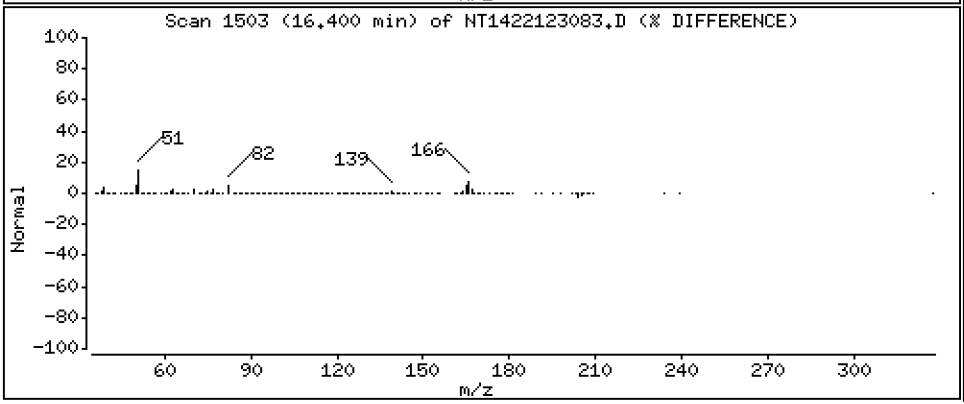
51 4-Chlorophenyl-phenylether

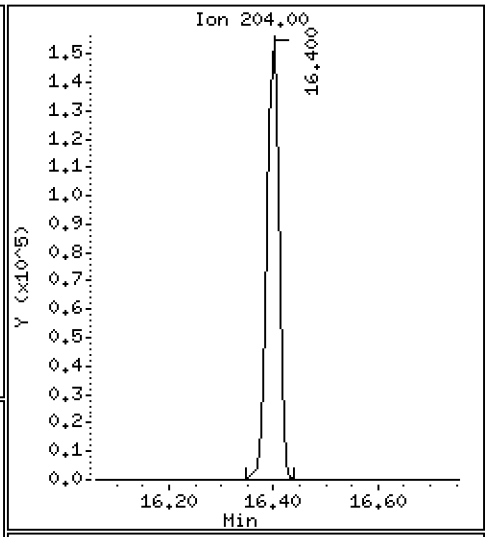
Concentration: 4.919 ug/mL

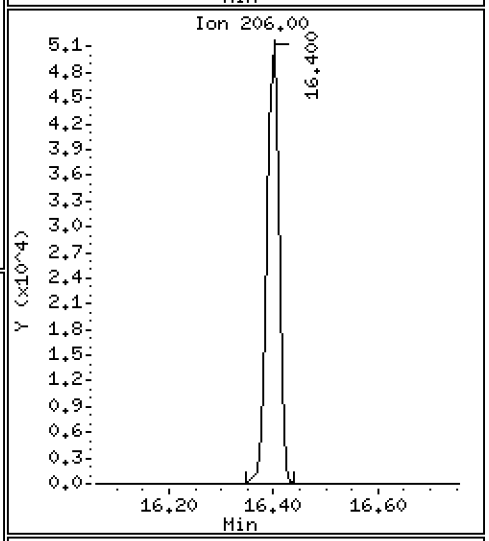


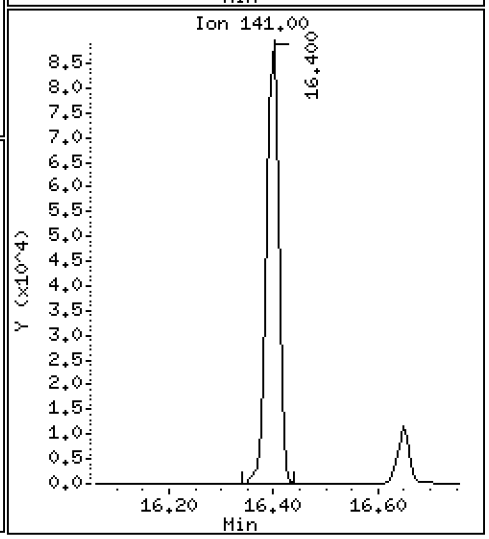












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

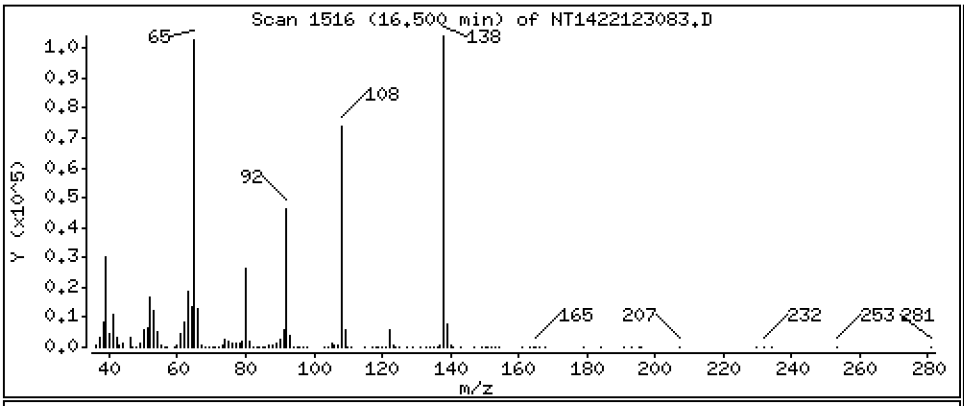
Operator: VTS

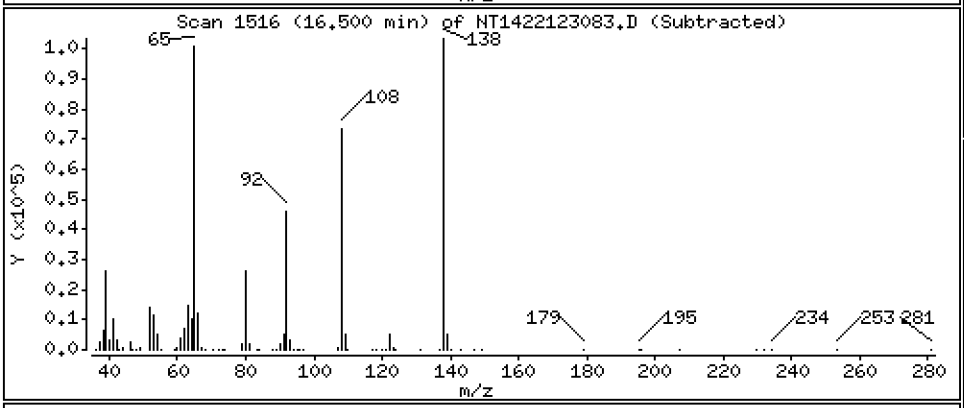
Column phase: ZB-5msi

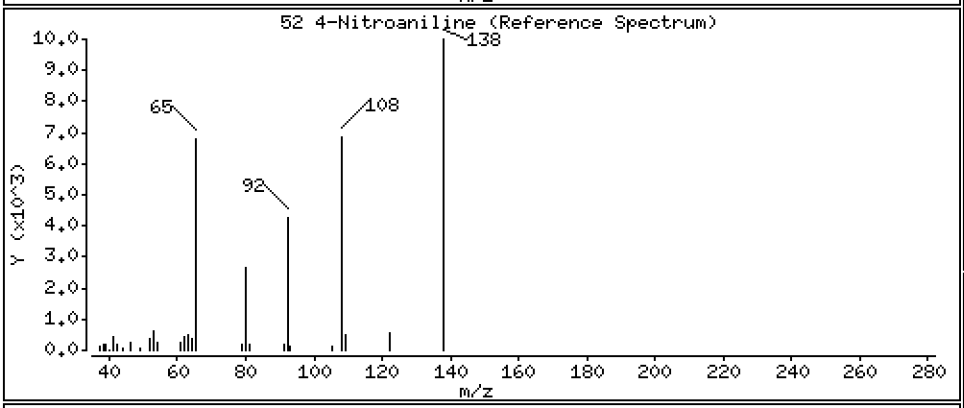
Column diameter: 0.25

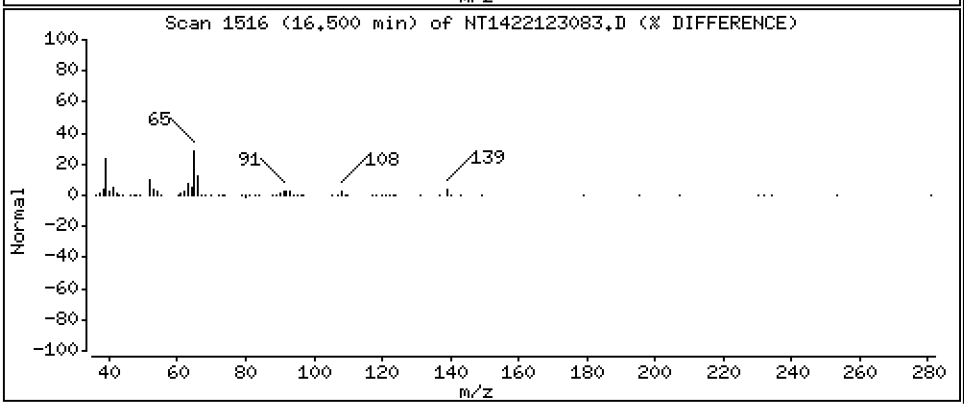
52 4-Nitroaniline

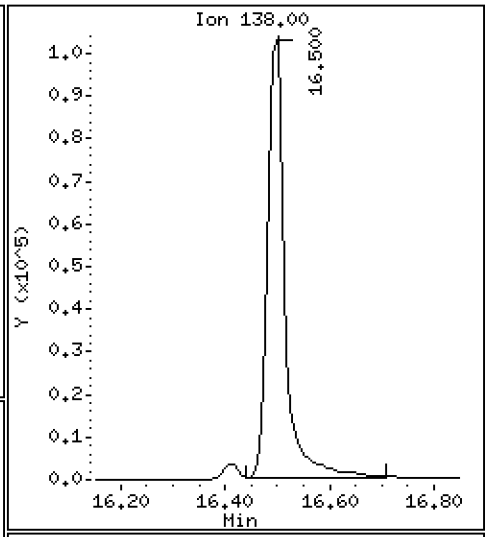
Concentration: 9.003 ug/mL

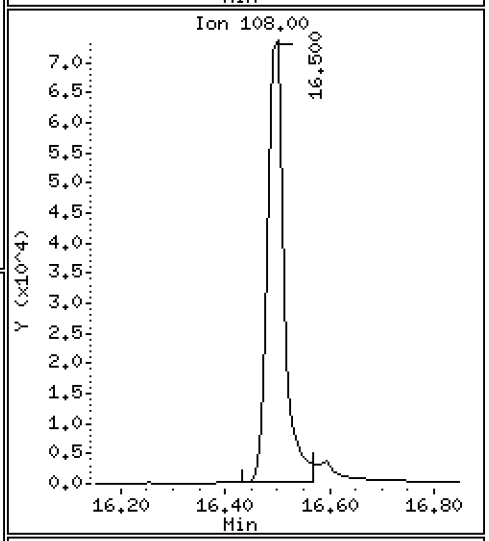


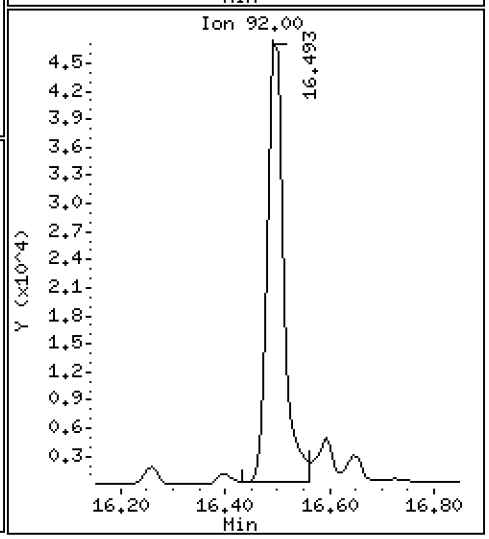












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

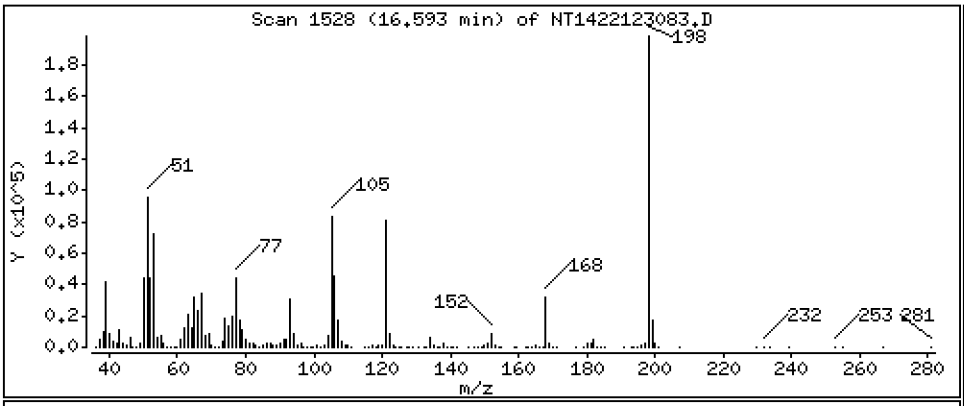
Operator: VTS

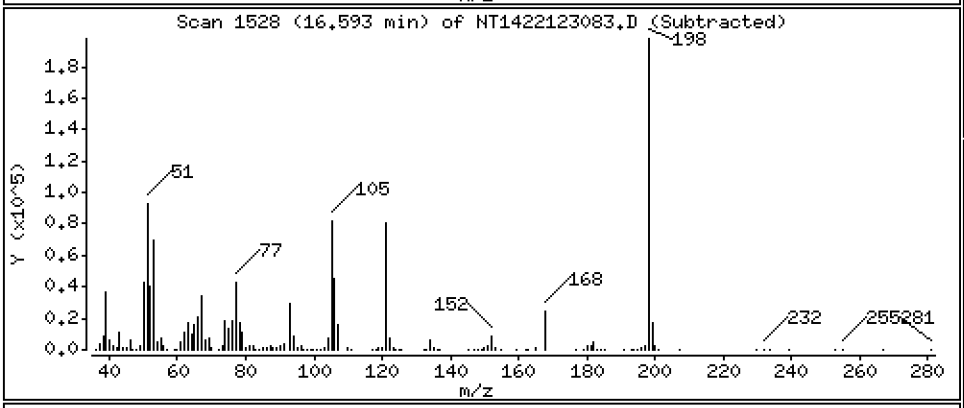
Column phase: ZB-5msi

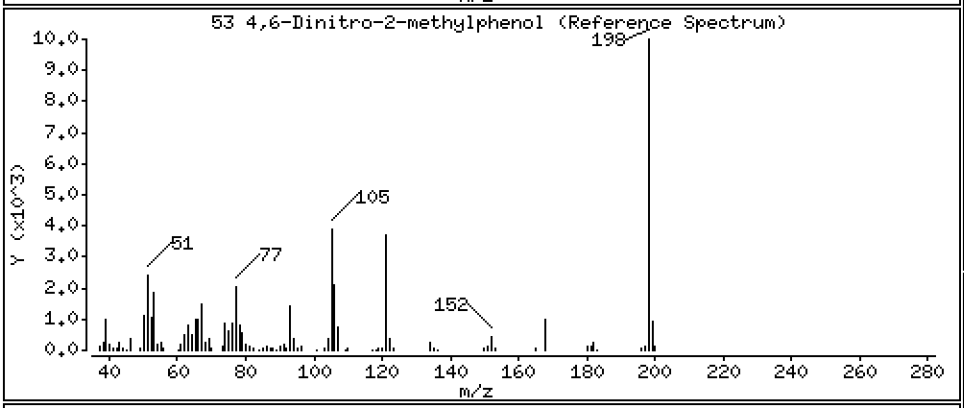
Column diameter: 0.25

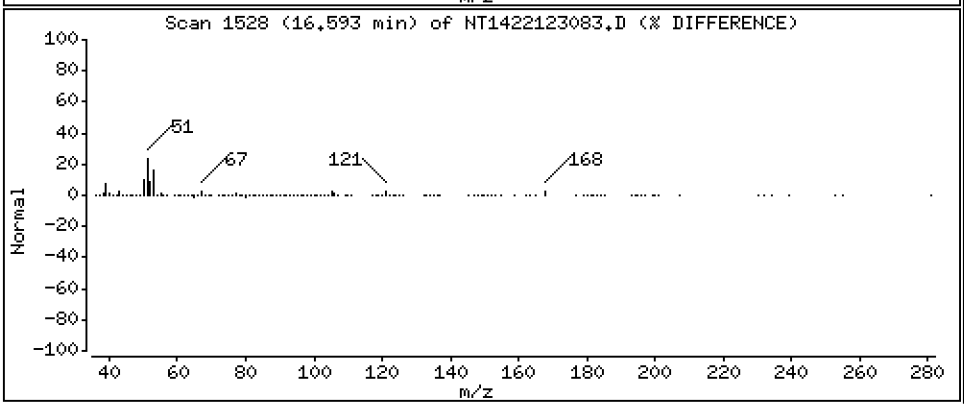
53 4,6-Dinitro-2-methylphenol

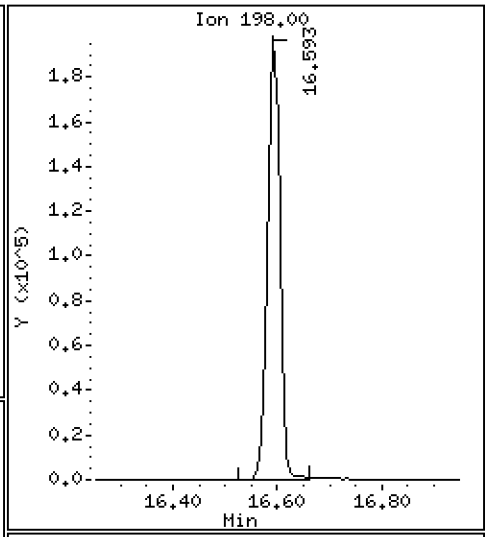
Concentration: 16.46 ug/mL

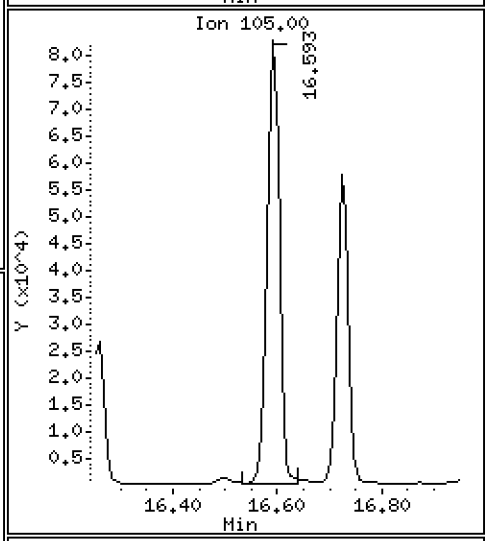


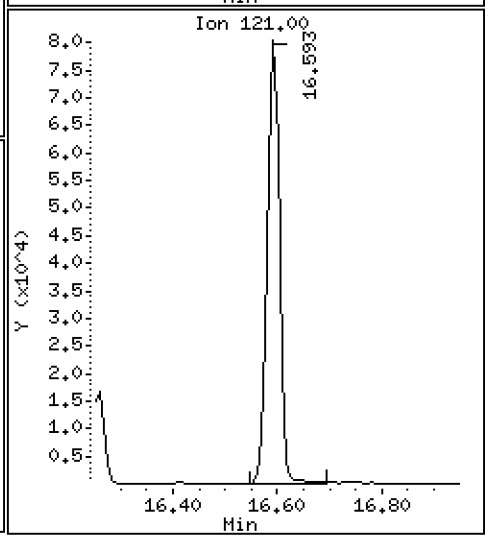












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

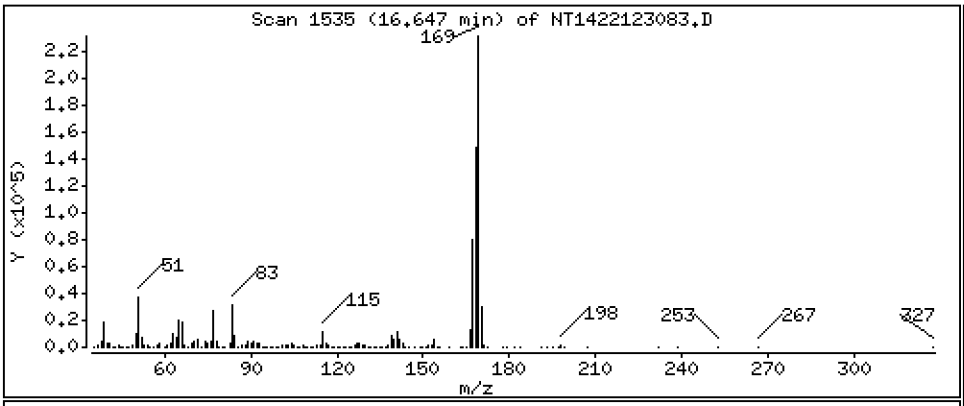
Operator: VTS

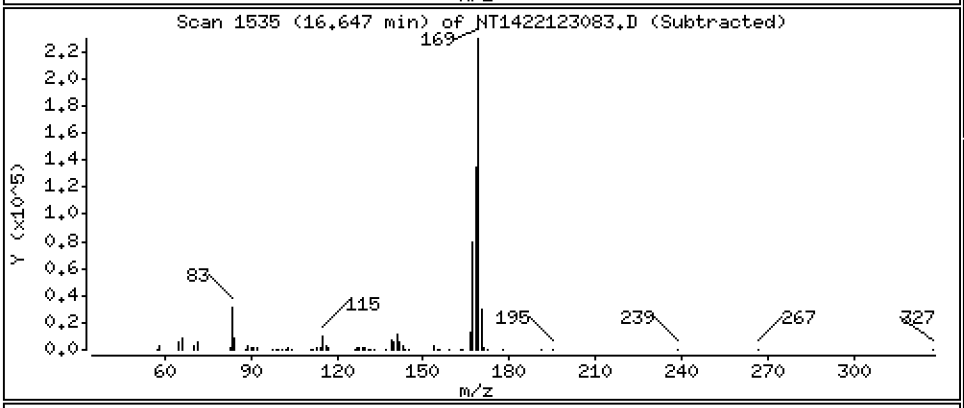
Column phase: ZB-5msi

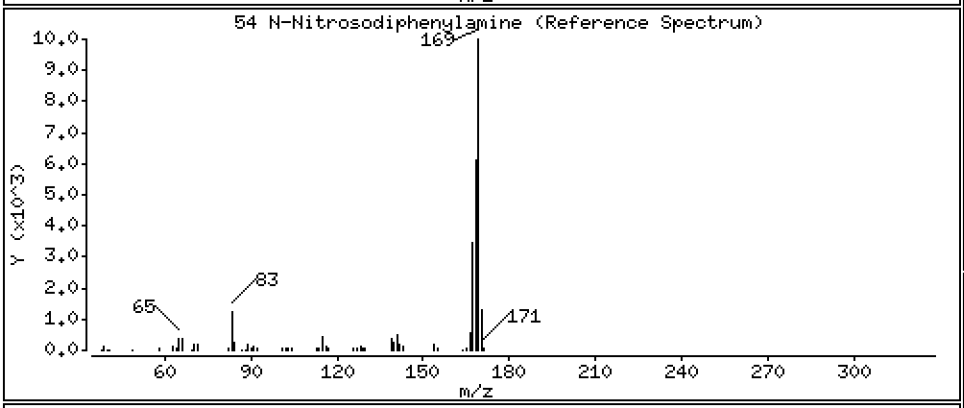
Column diameter: 0.25

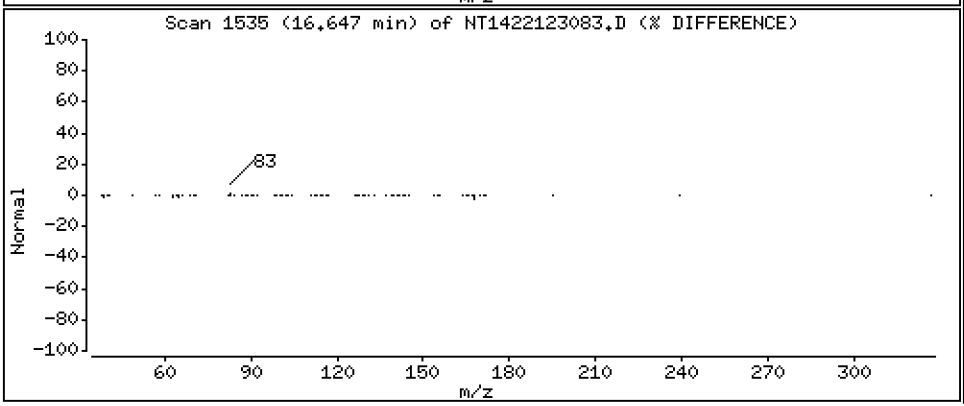
54 N-Nitrosodiphenylamine

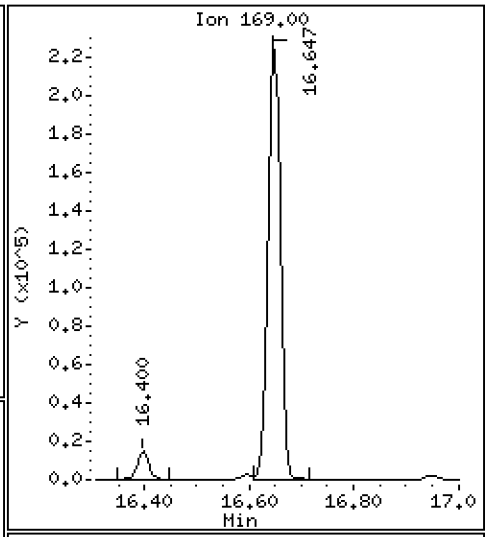
Concentration: 4.800 ug/mL

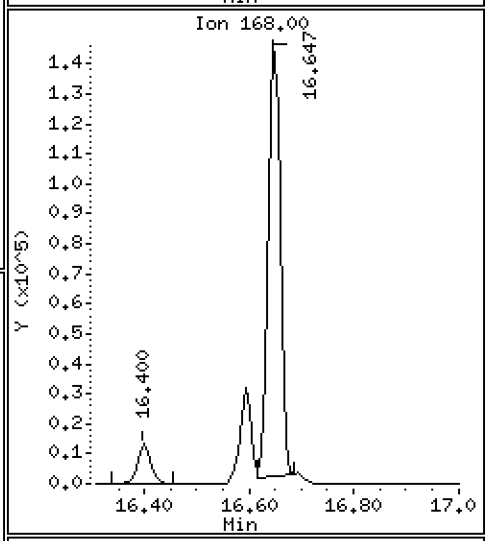


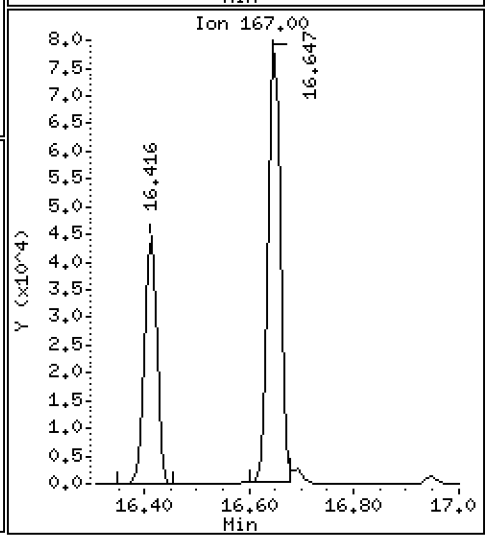












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

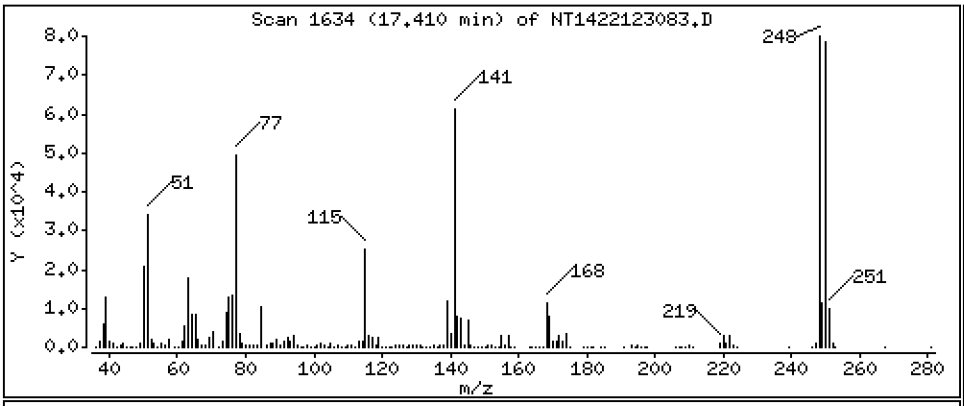
Operator: VTS

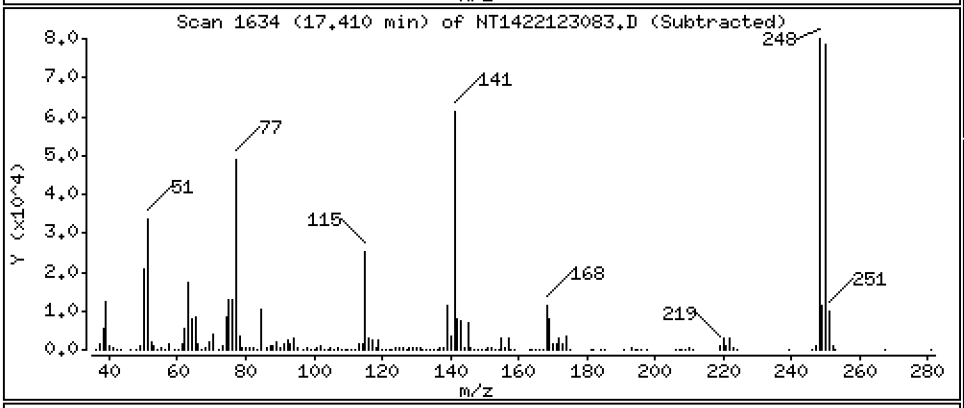
Column phase: ZB-5msi

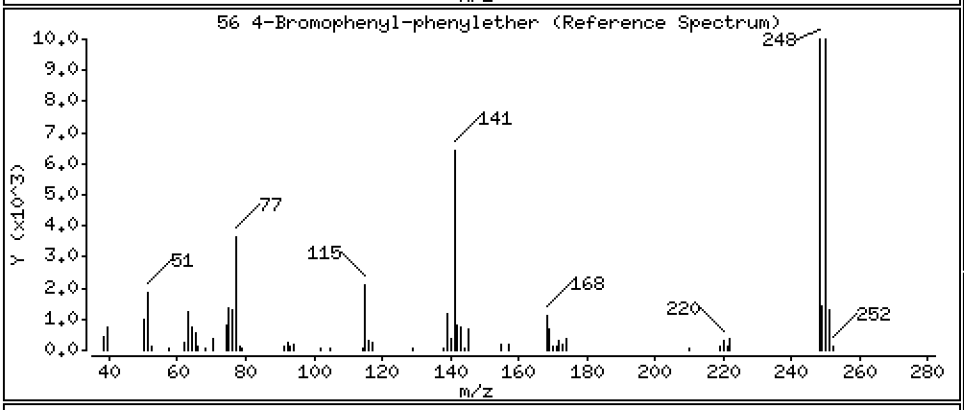
Column diameter: 0.25

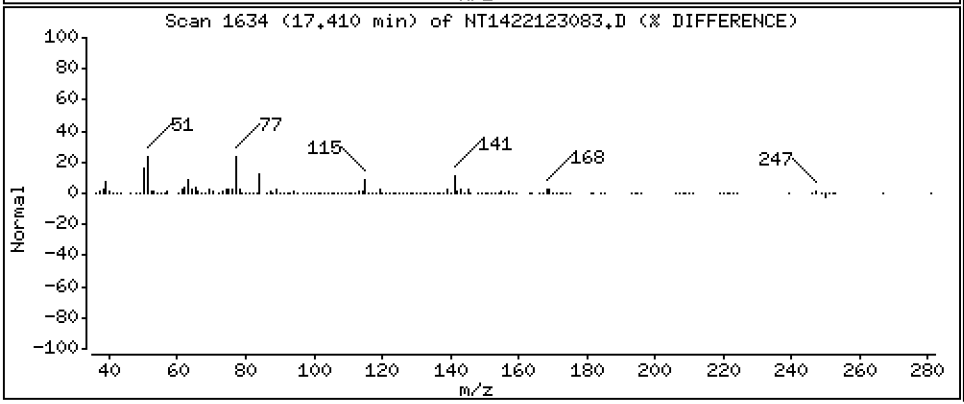
56 4-Bromophenyl-phenylether

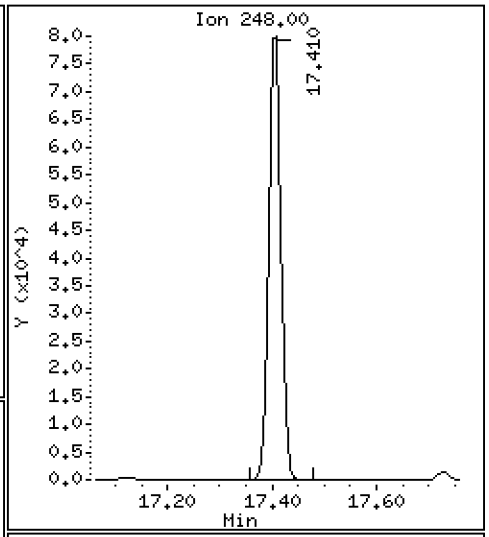
Concentration: 4.724 ug/mL

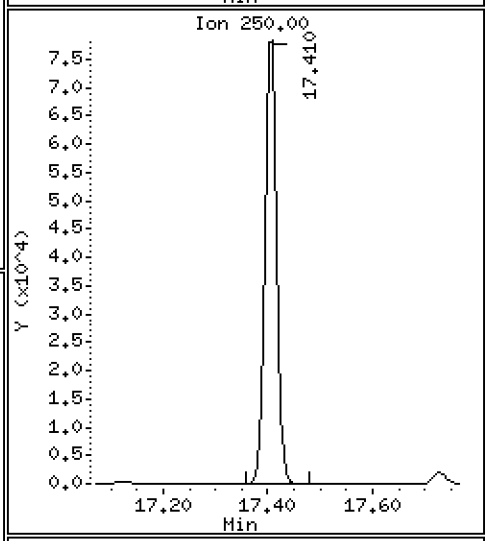


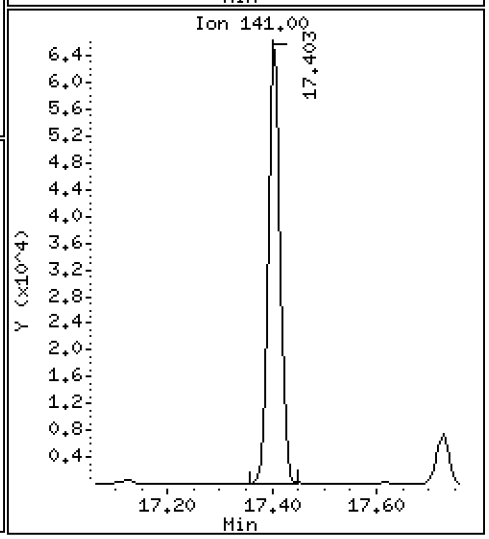












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

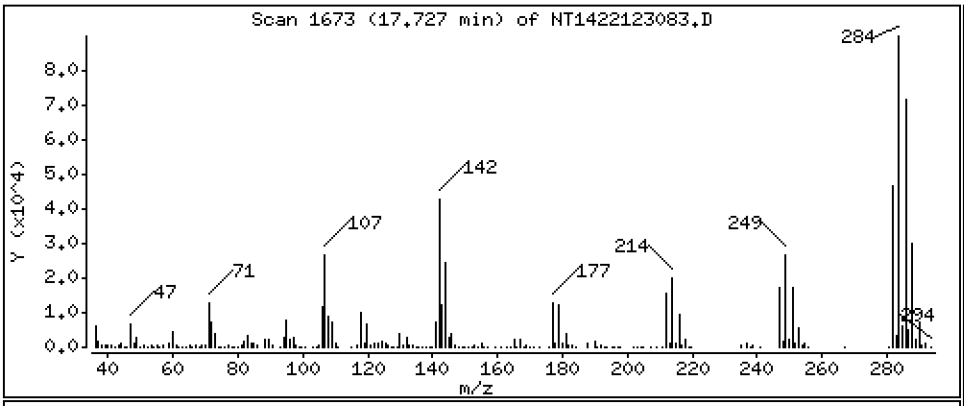
Operator: VTS

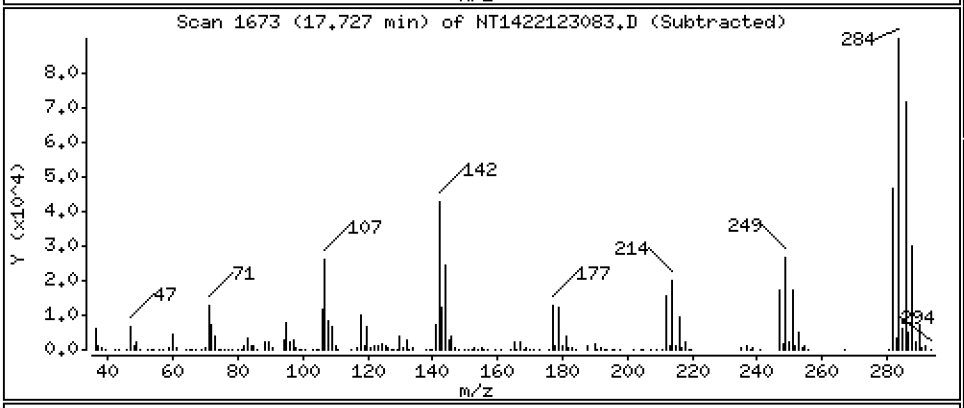
Column phase: ZB-5msi

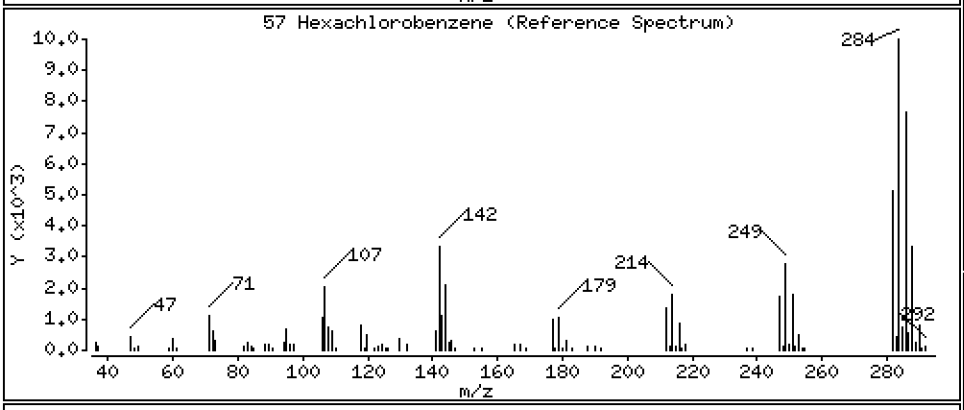
Column diameter: 0.25

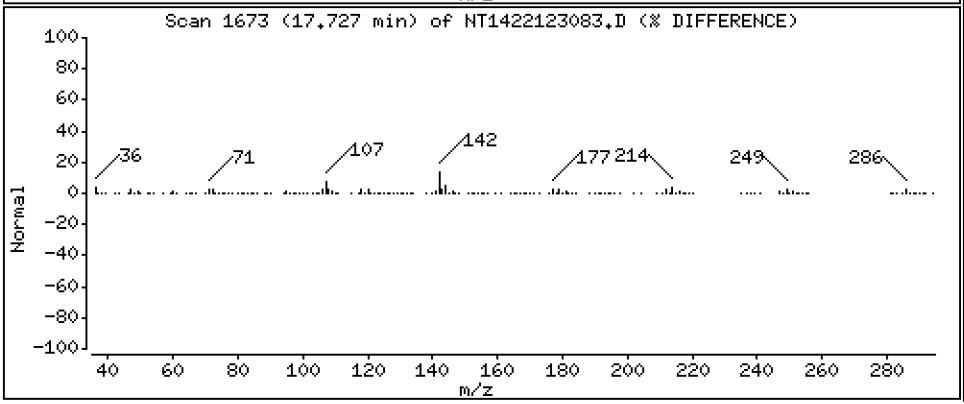
57 Hexachlorobenzene

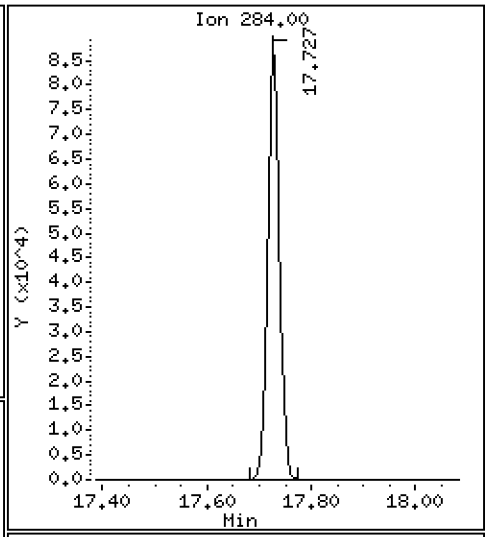
Concentration: 4.553 ug/mL

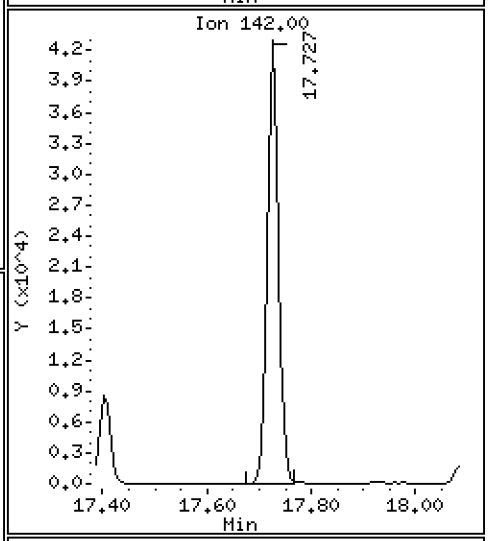


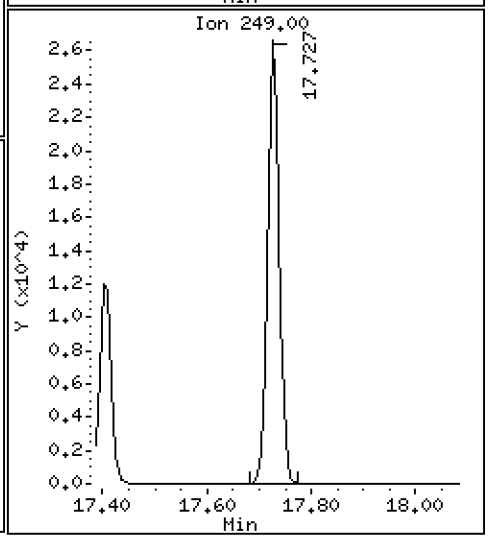












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

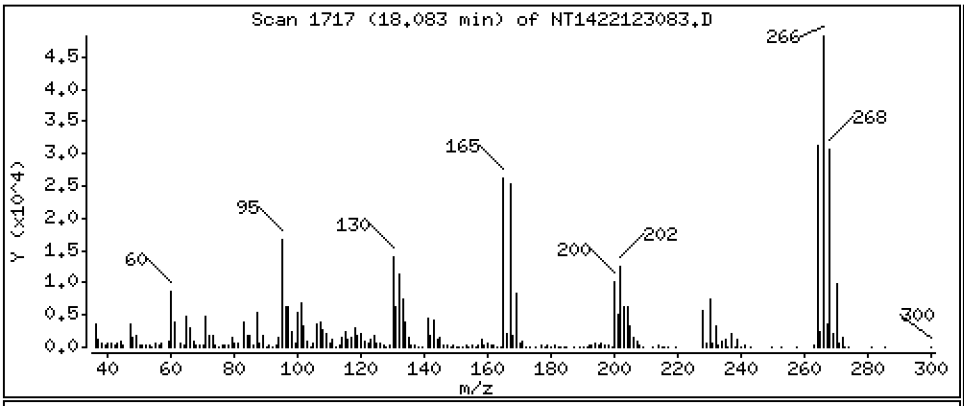
Operator: VTS

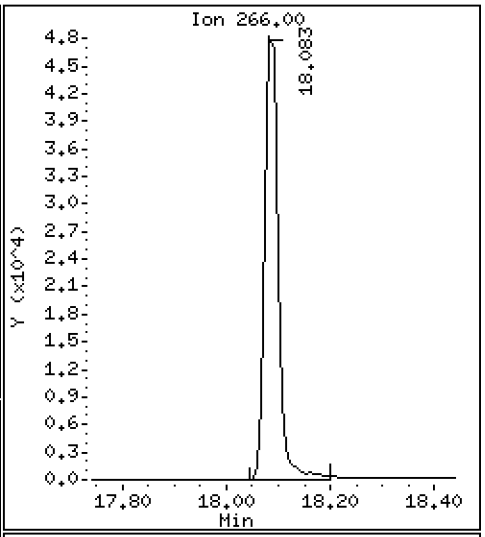
Column phase: ZB-5msi

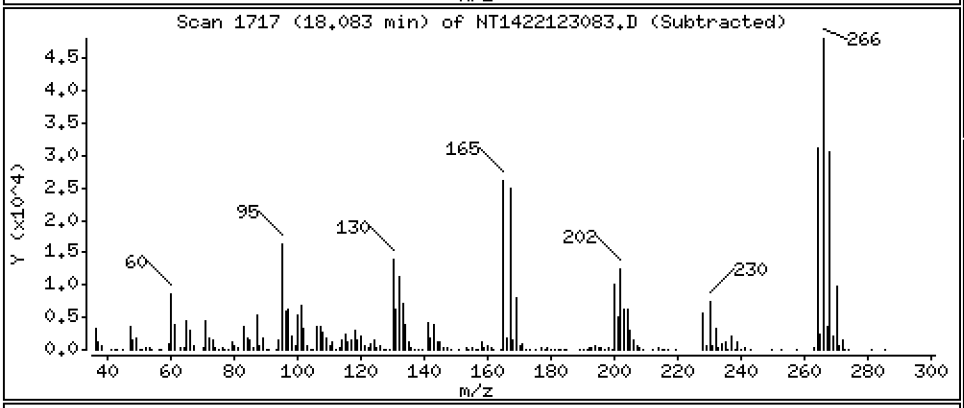
Column diameter: 0.25

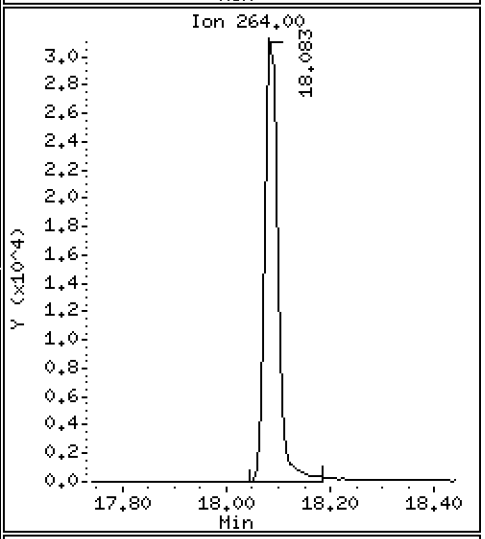
58 Pentachlorophenol

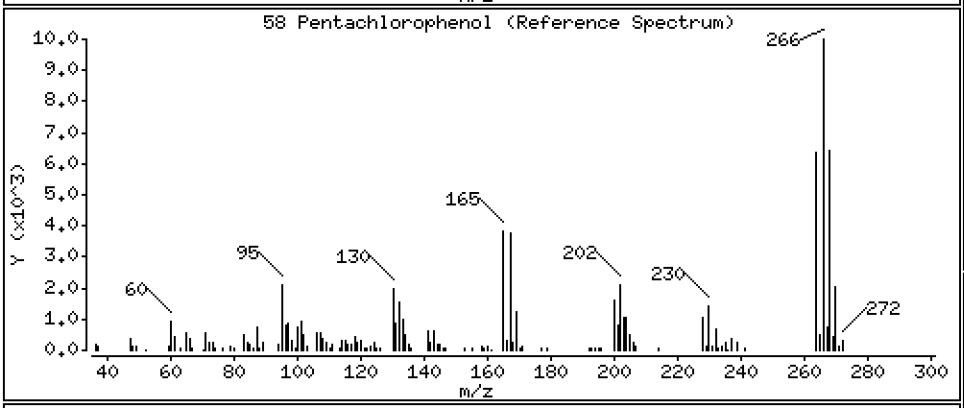
Concentration: 6.130 ug/mL

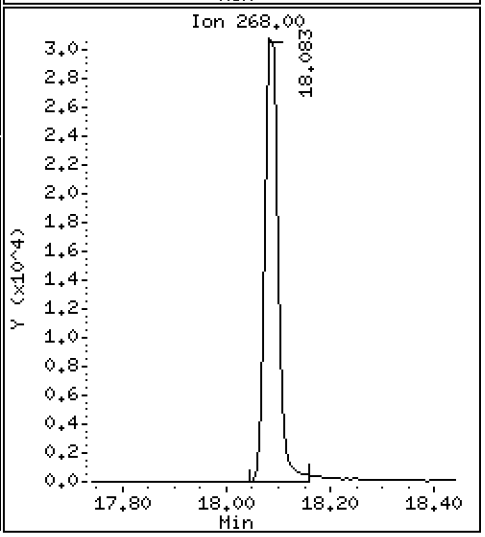


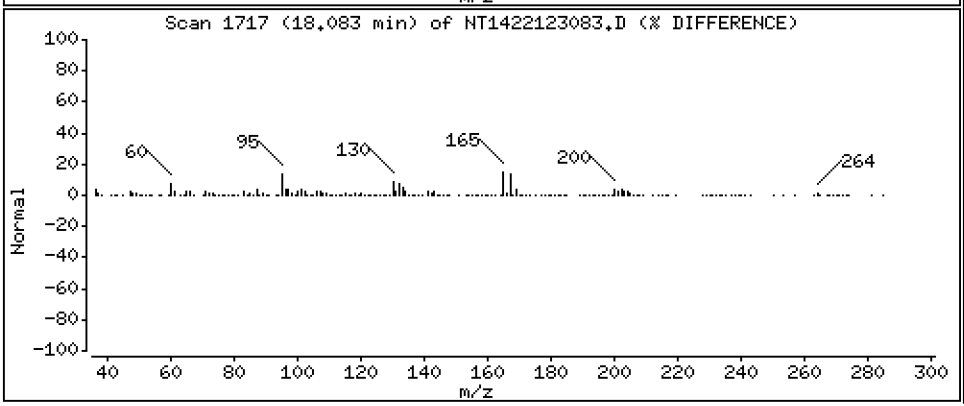












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

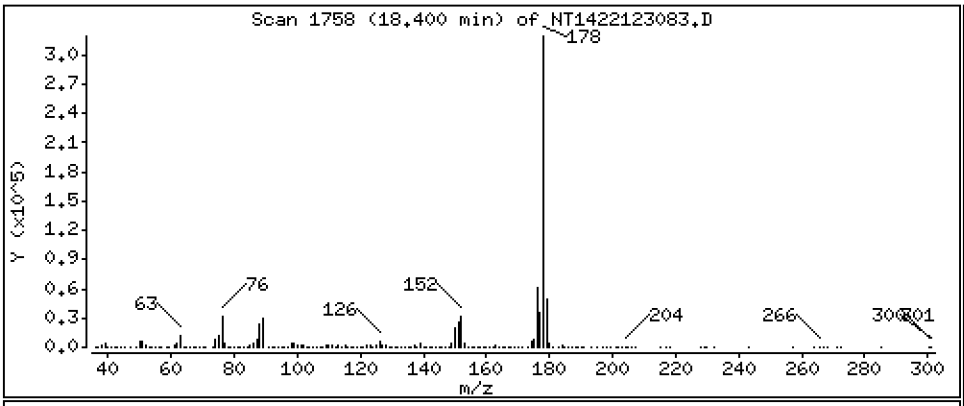
Operator: VTS

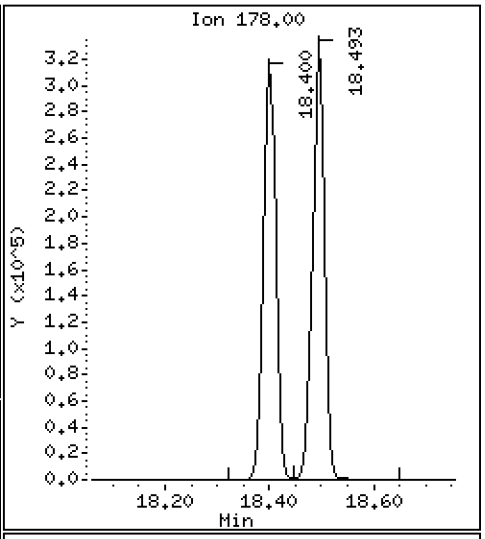
Column phase: ZB-5msi

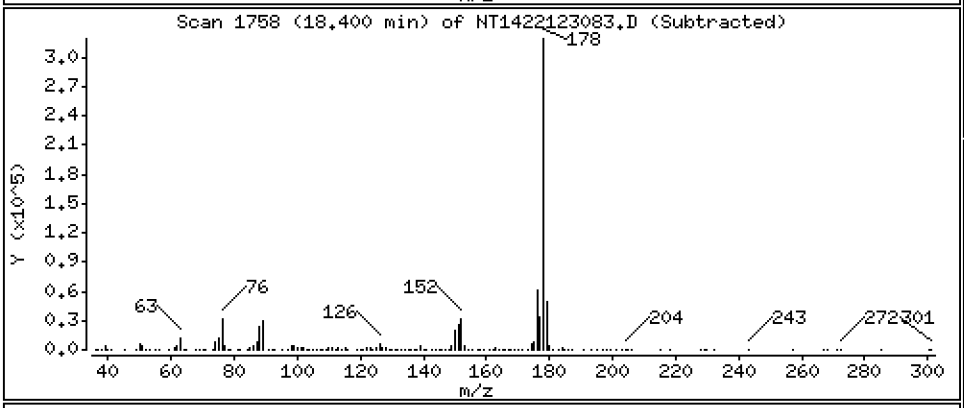
Column diameter: 0.25

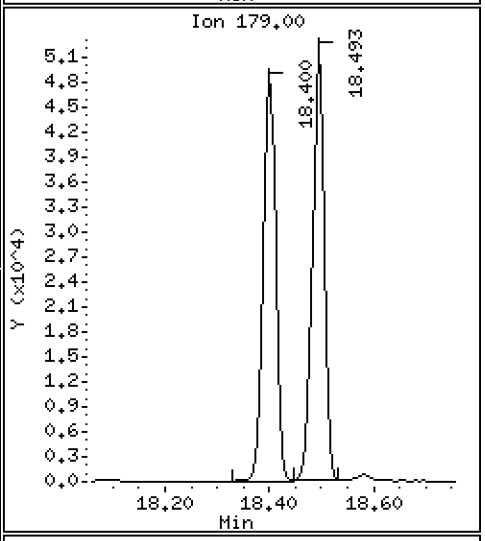
60 Phenanthrene

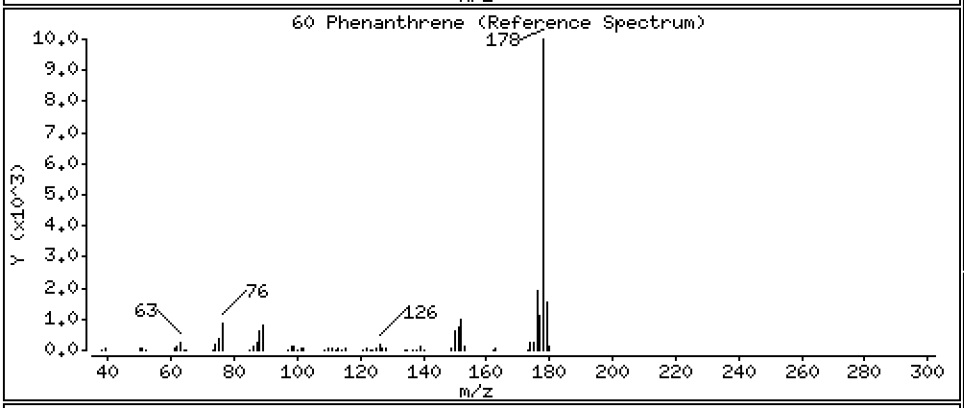
Concentration: 4.508 ug/mL

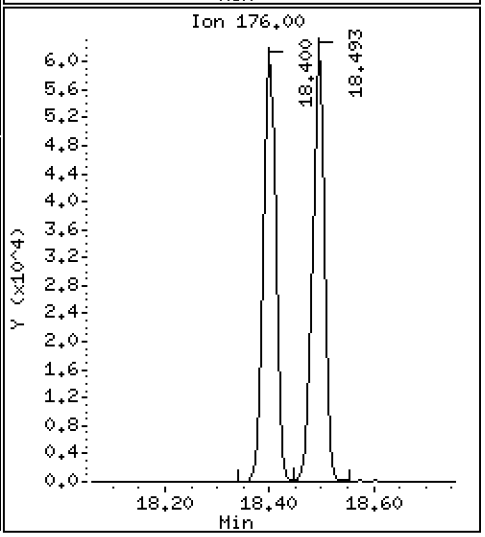


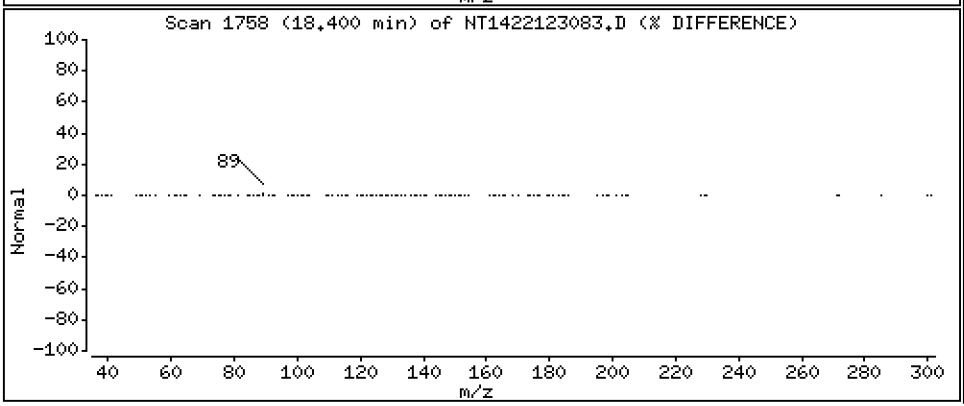












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

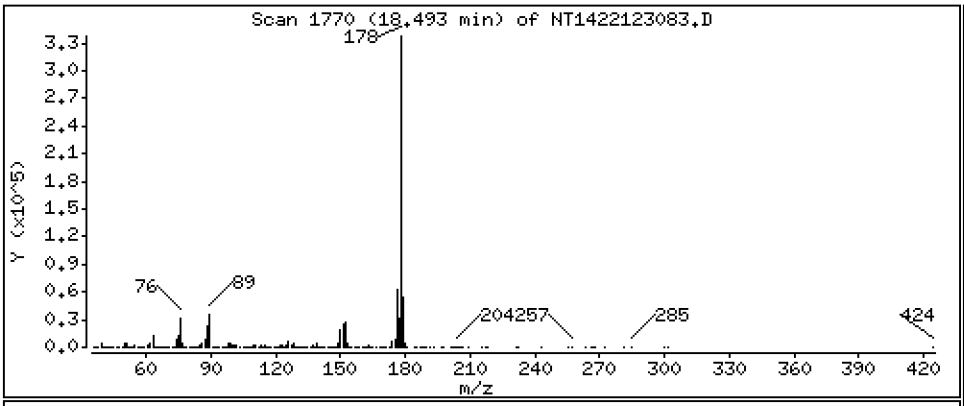
Operator: VTS

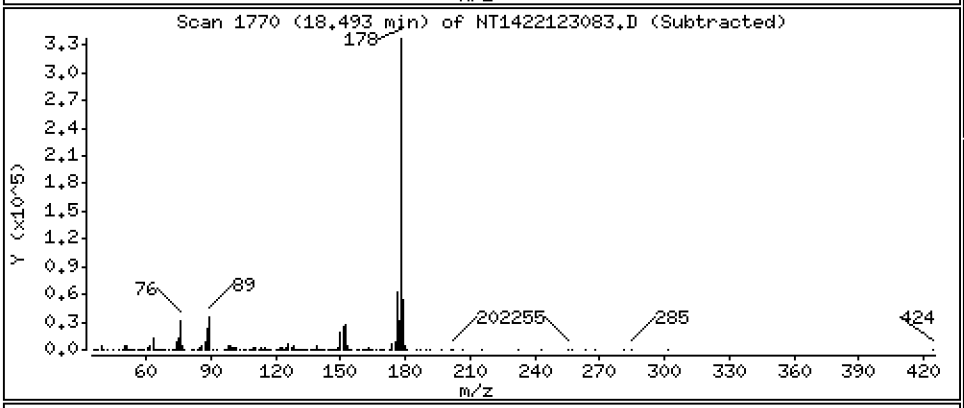
Column phase: ZB-5msi

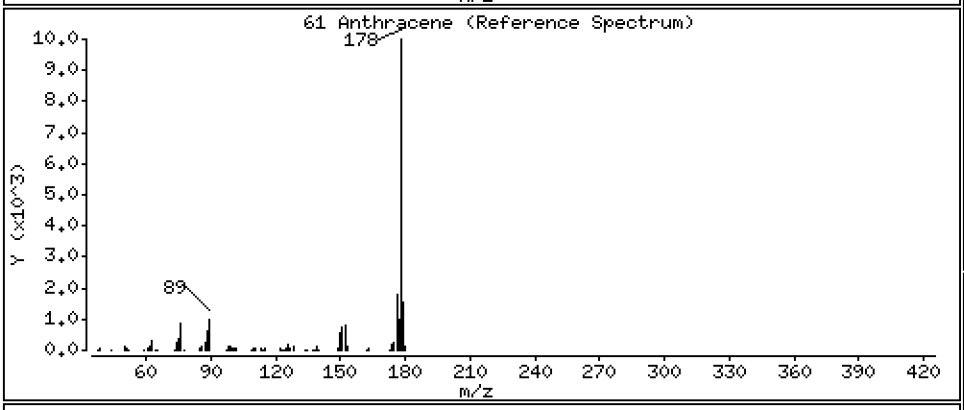
Column diameter: 0.25

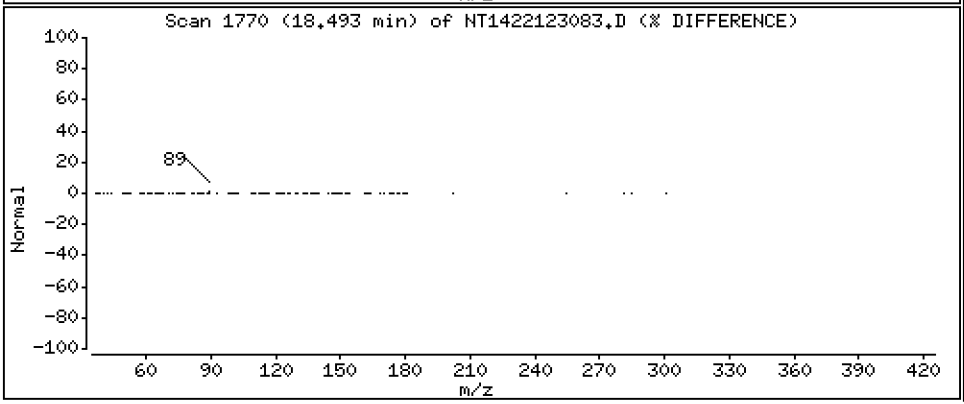
61 Anthracene

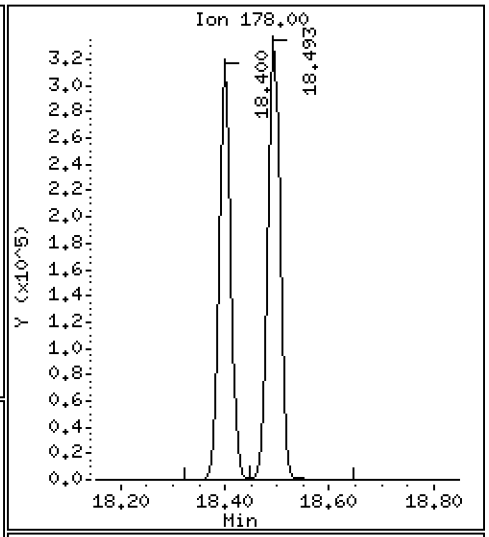
Concentration: 4.908 ug/mL

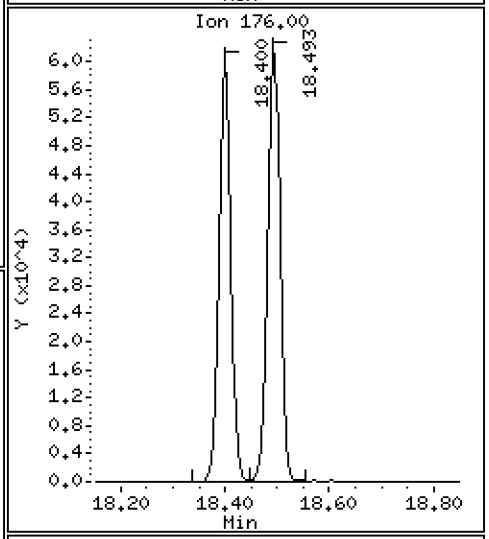


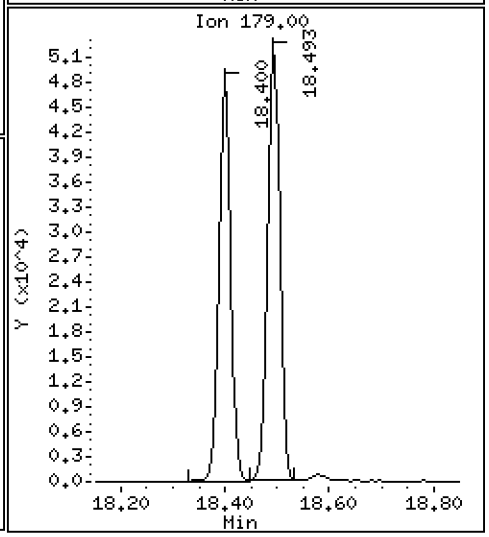












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

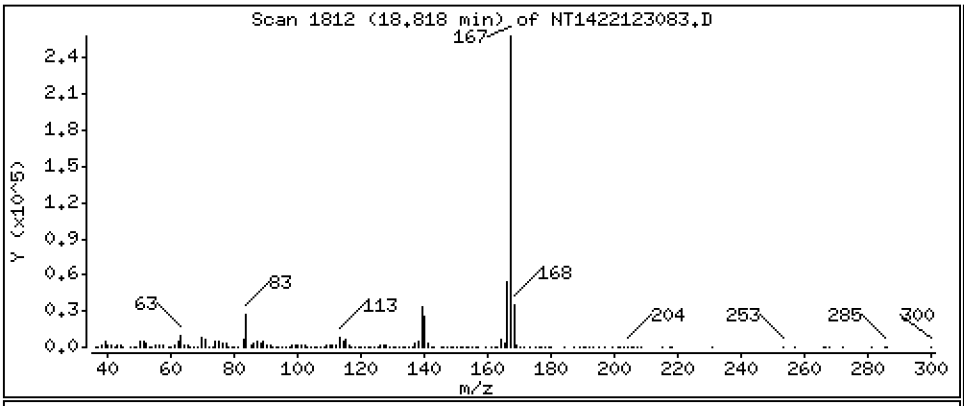
Operator: VTS

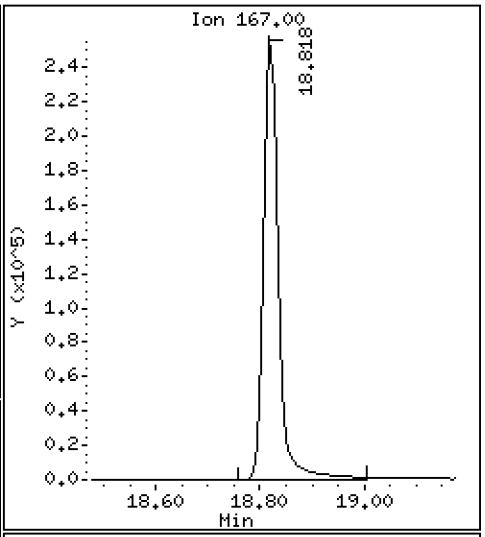
Column phase: ZB-5msi

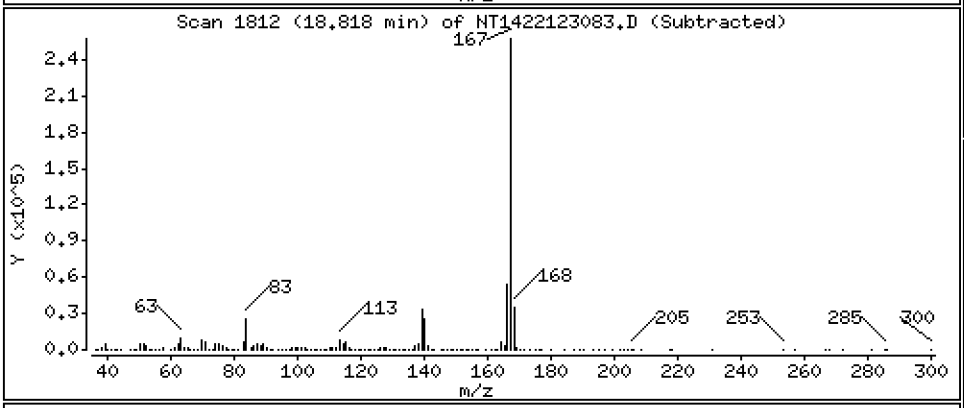
Column diameter: 0.25

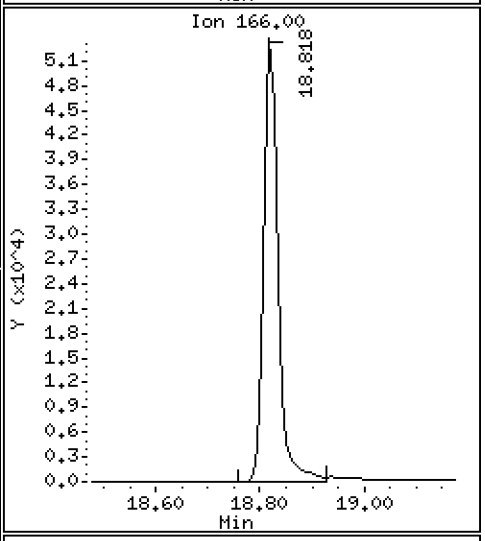
62 Carbazole

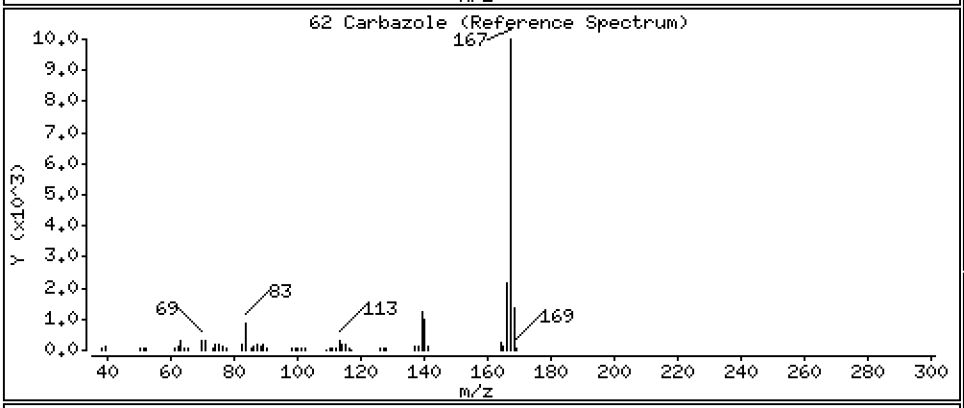
Concentration: 4.745 ug/mL

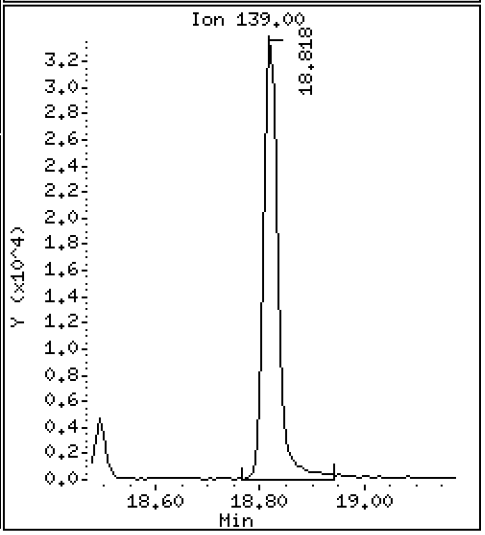


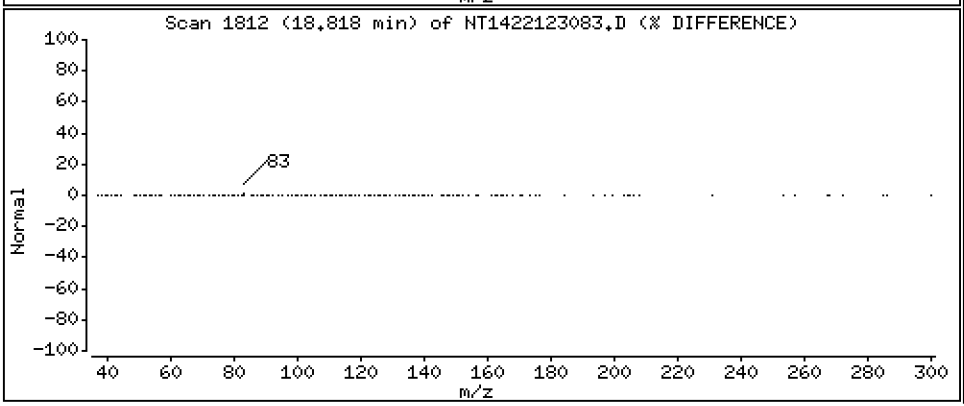












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123083.D

Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

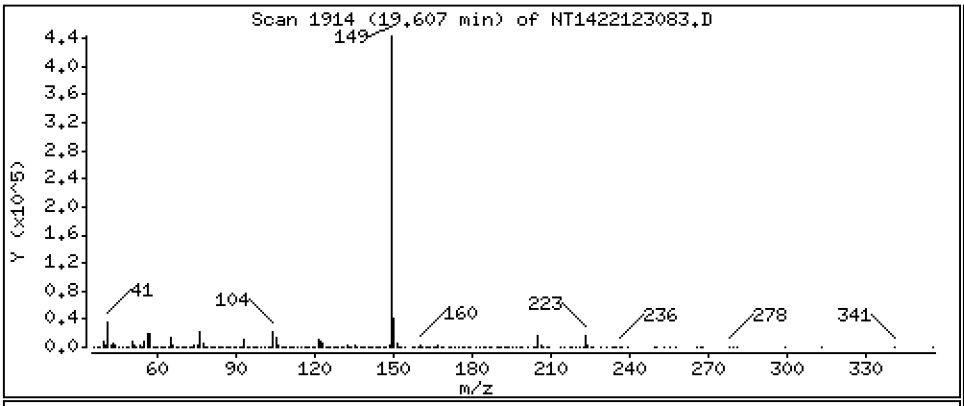
Operator: VTS

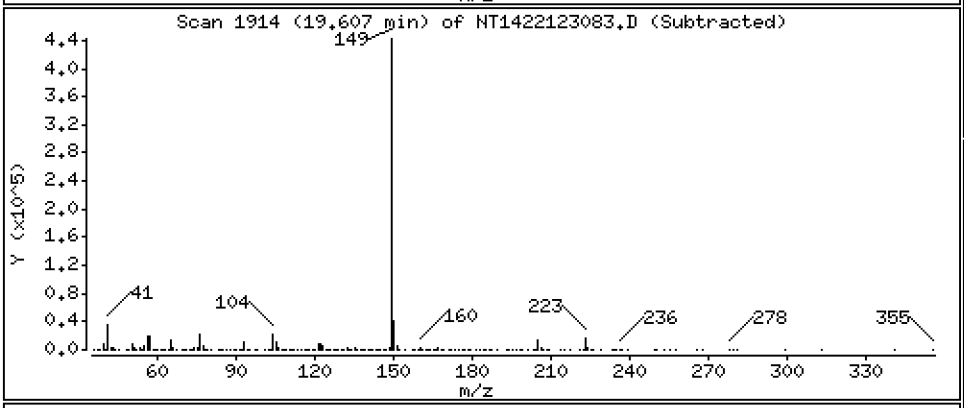
Column phase: ZB-5msi

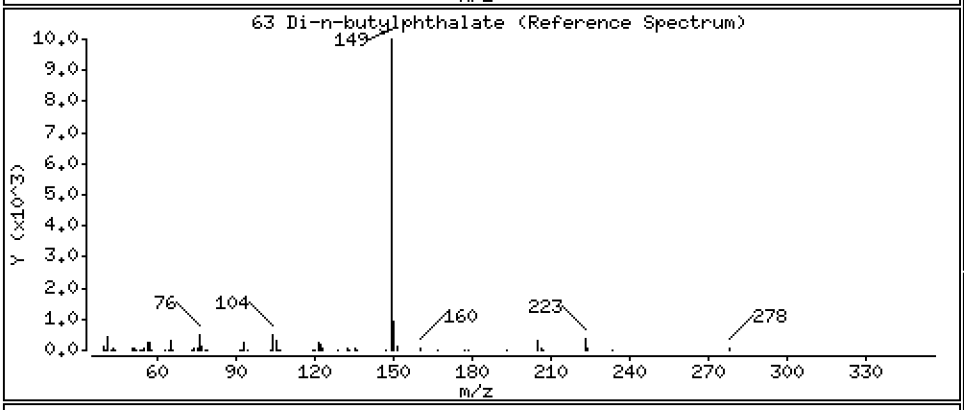
Column diameter: 0.25

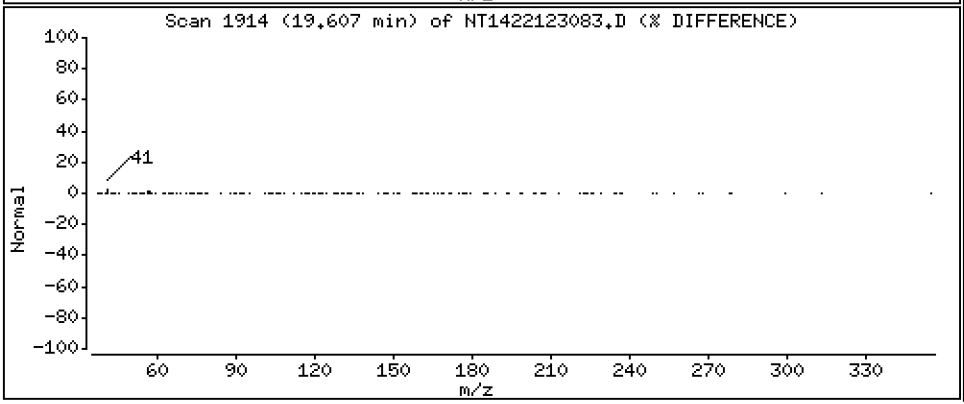
63 Di-n-butylphthalate

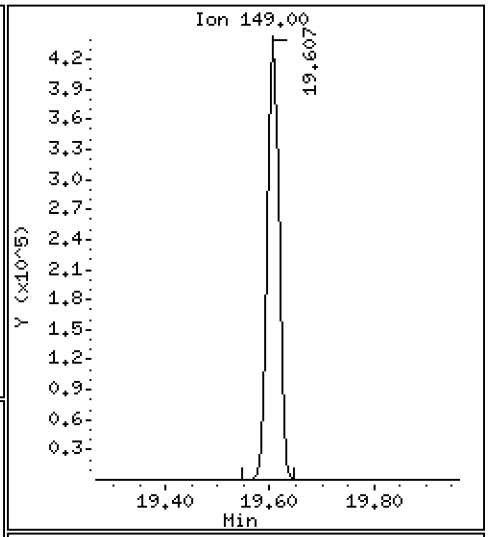
Concentration: 5.364 ug/mL

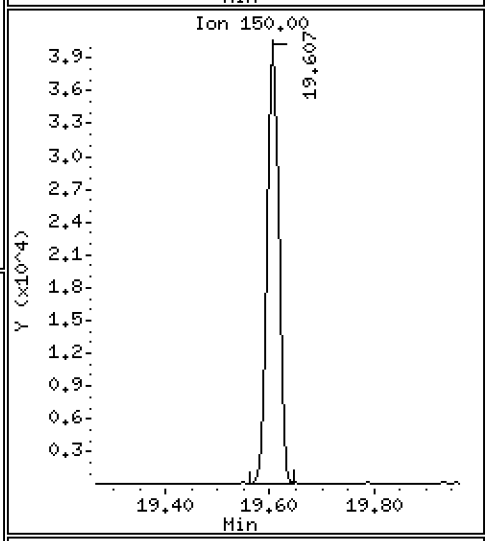


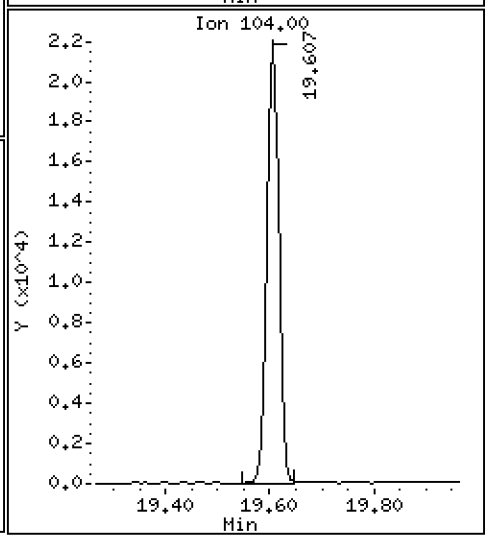












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

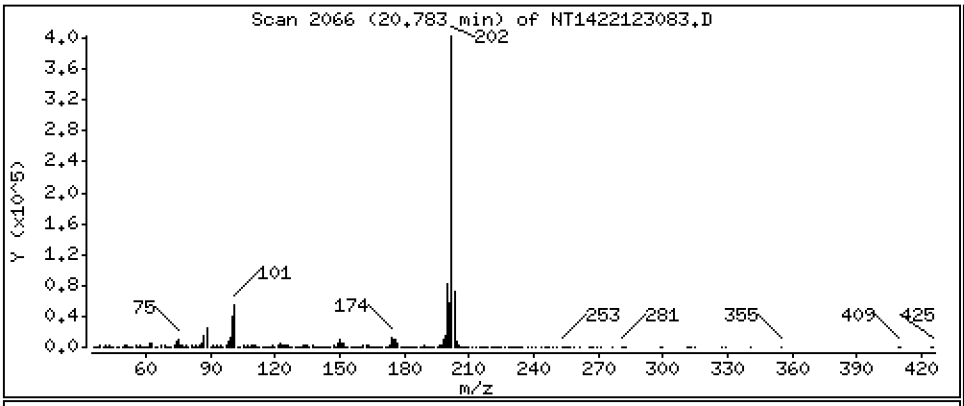
Operator: VTS

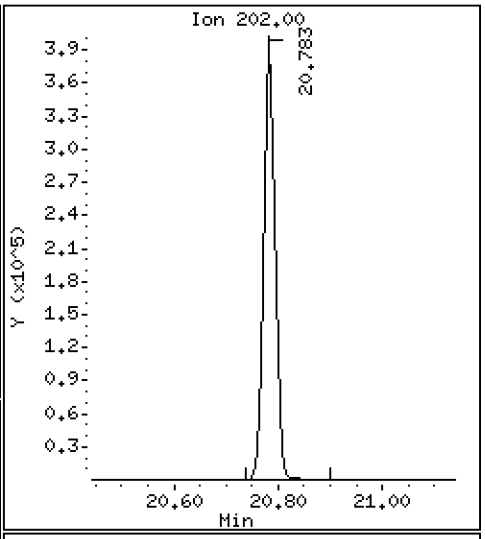
Column phase: ZB-5msi

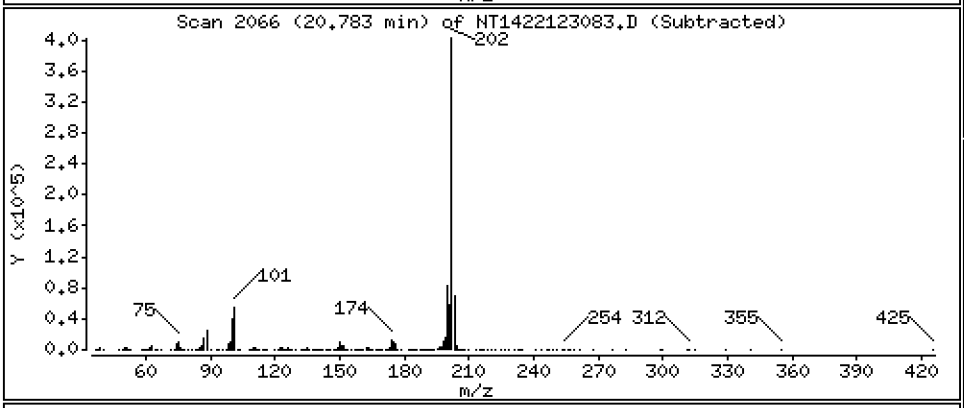
Column diameter: 0.25

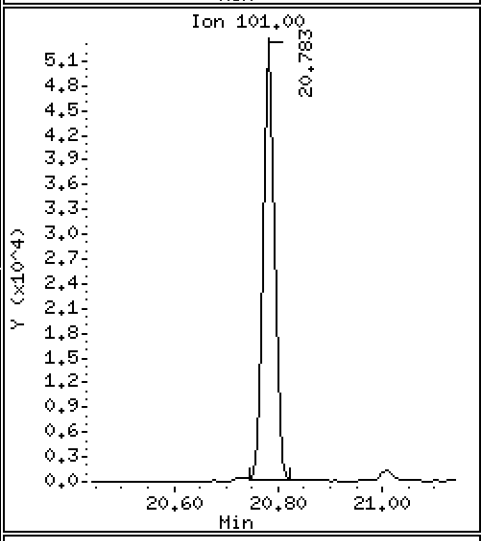
64 Fluoranthene

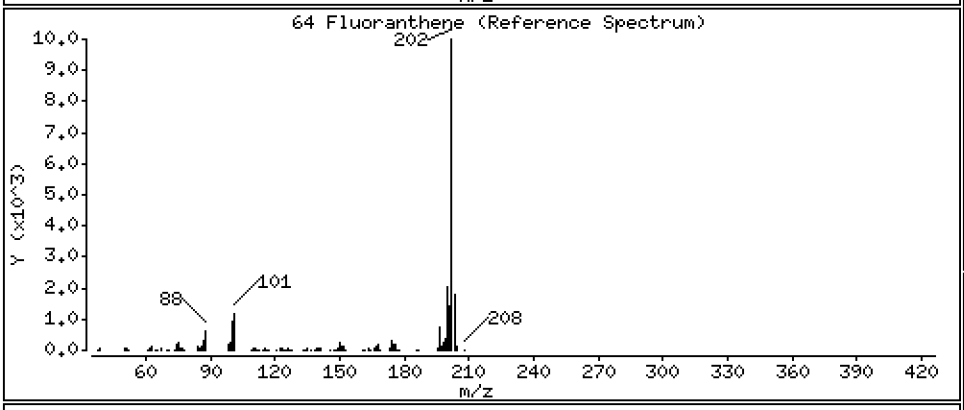
Concentration: 4.617 ug/mL

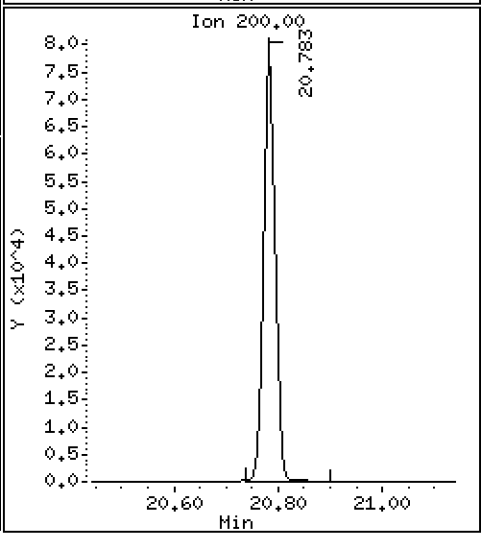


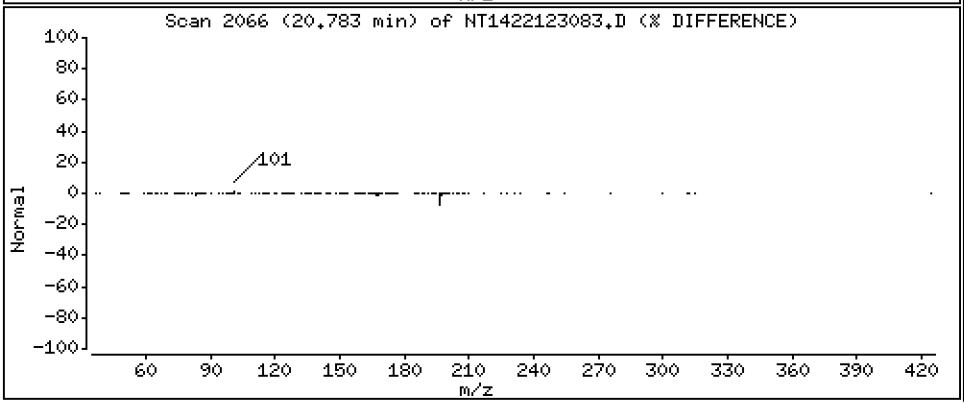












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

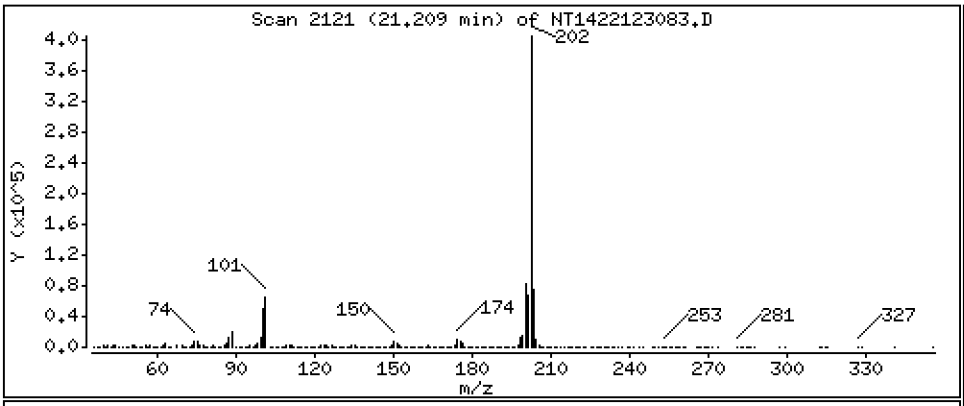
Operator: VTS

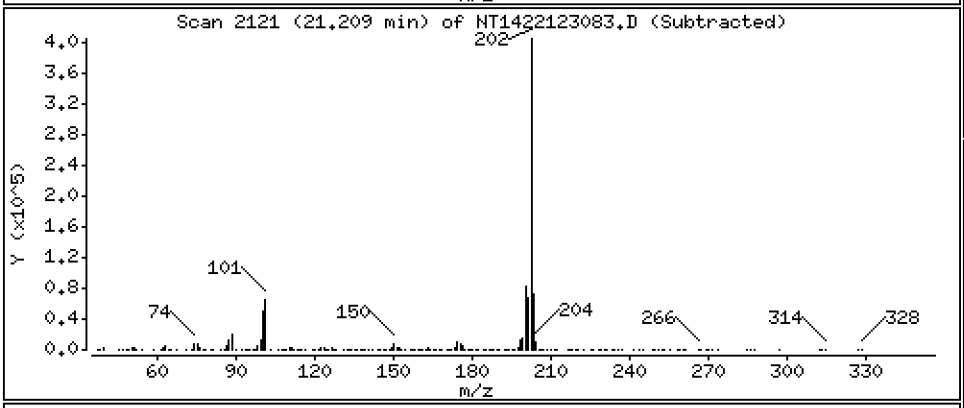
Column phase: ZB-5msi

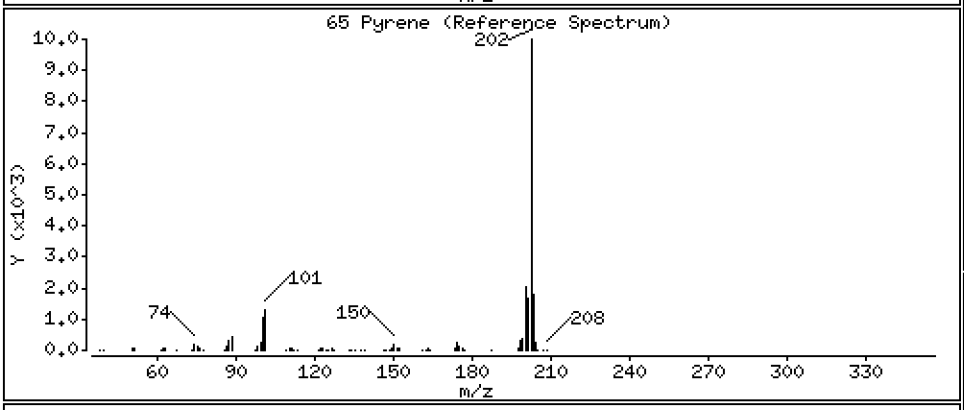
Column diameter: 0.25

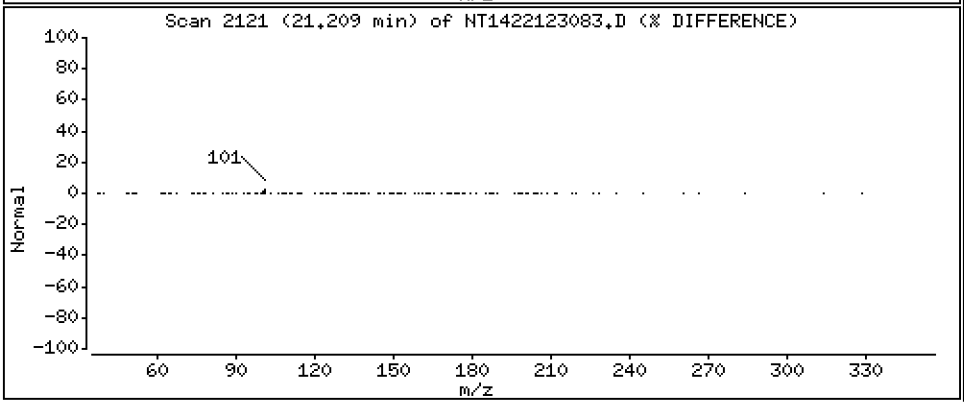
65 Pyrene

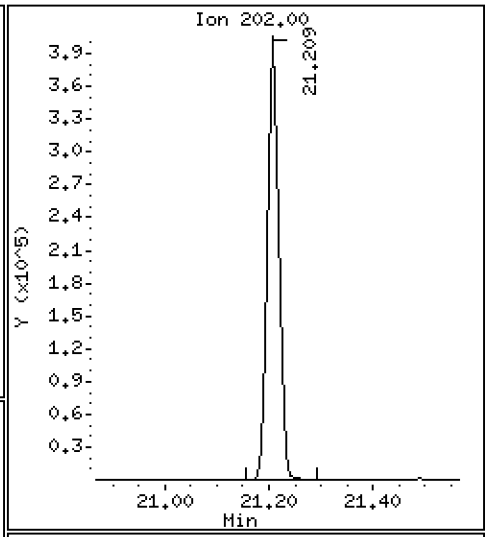
Concentration: 4.520 ug/mL

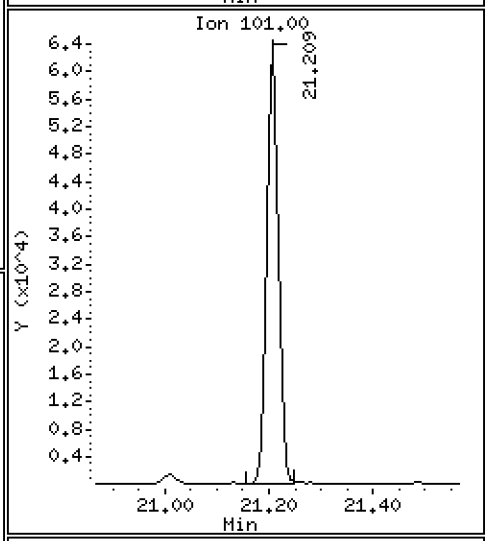


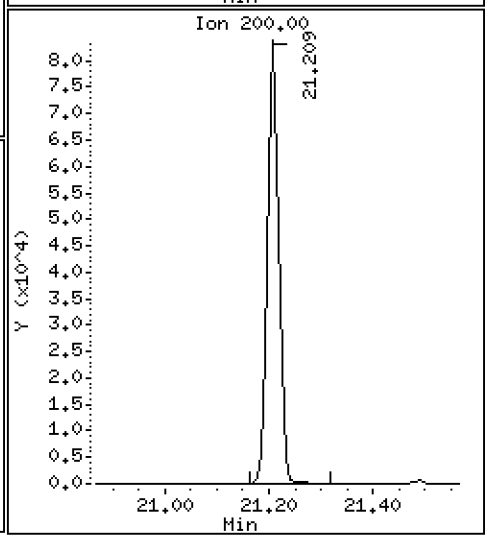












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

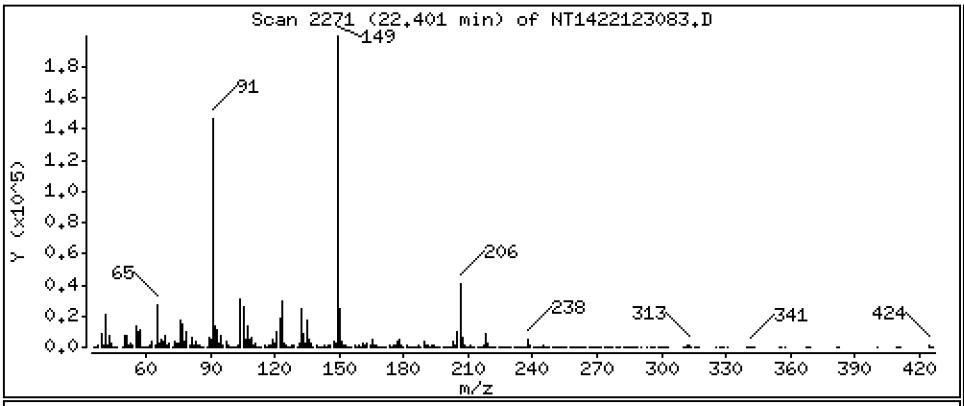
Operator: VTS

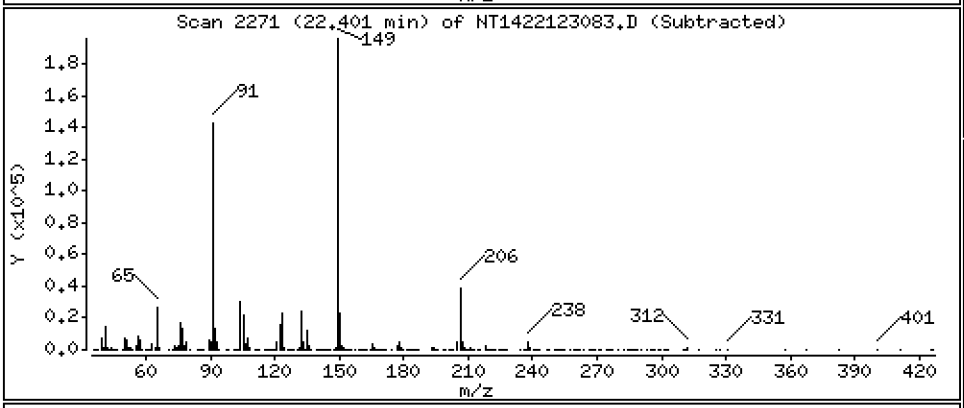
Column phase: ZB-5msi

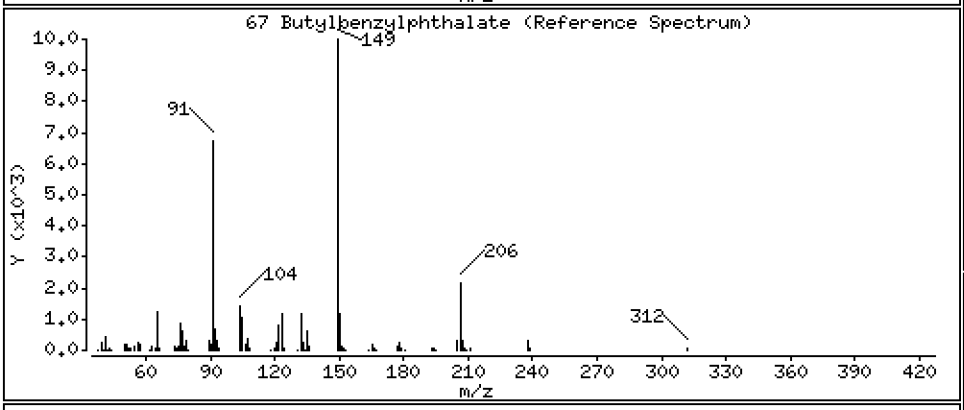
Column diameter: 0.25

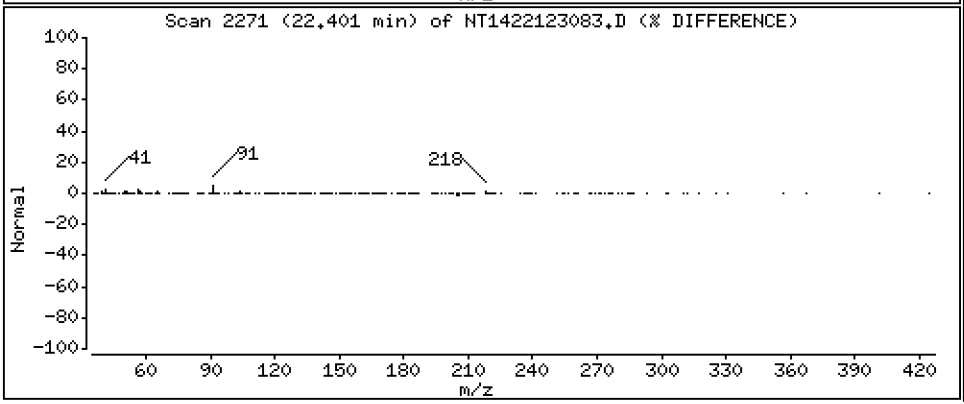
67 Butylbenzylphthalate

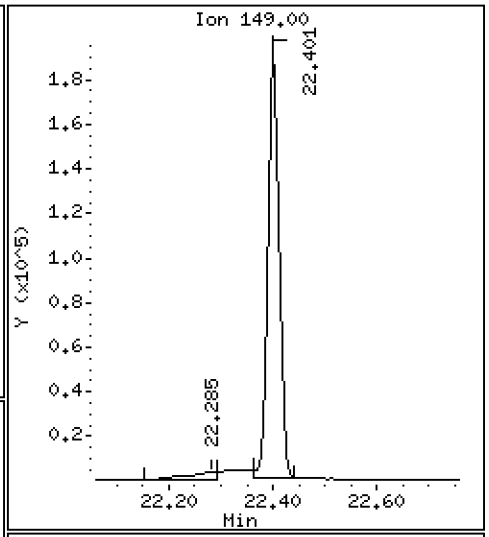
Concentration: 5.440 ug/mL

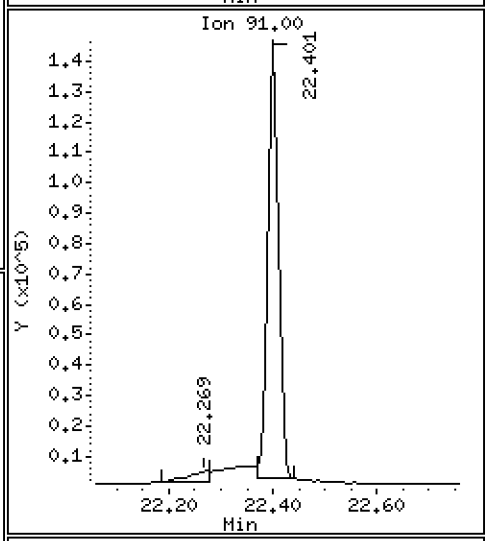


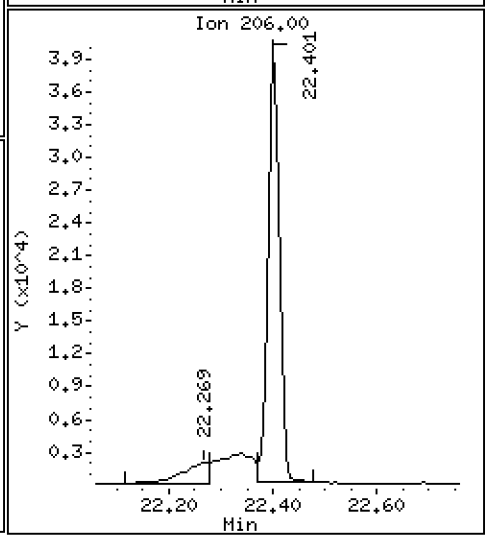












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

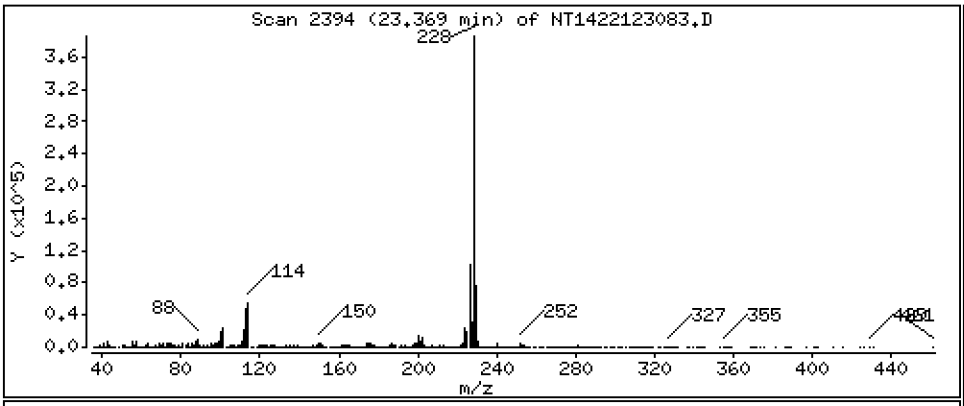
Operator: VTS

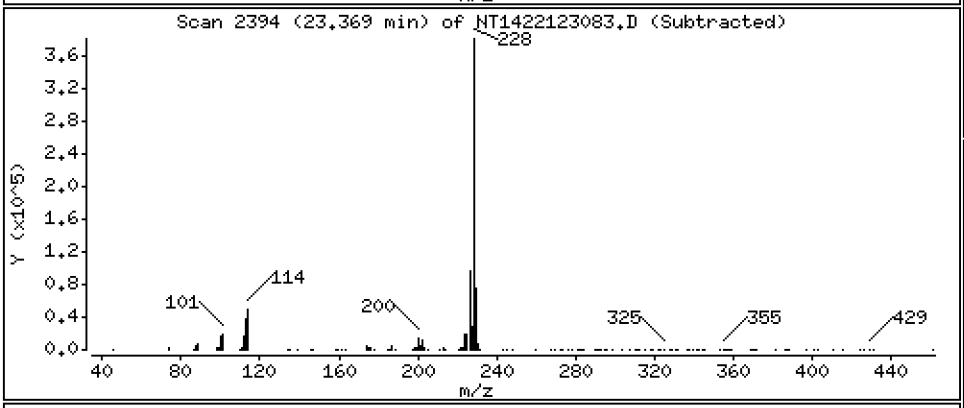
Column phase: ZB-5msi

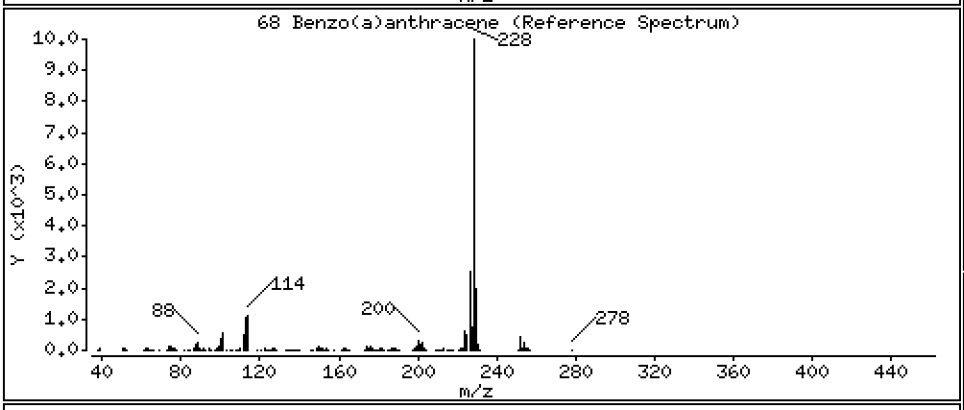
Column diameter: 0.25

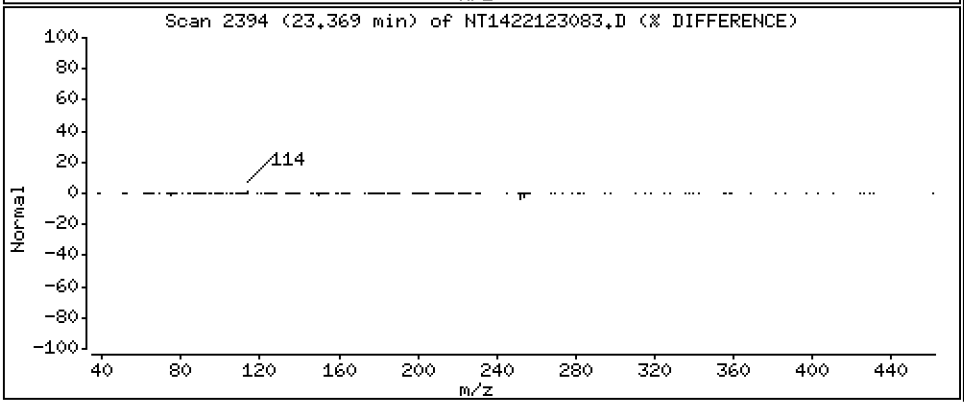
68 Benzo(a)anthracene

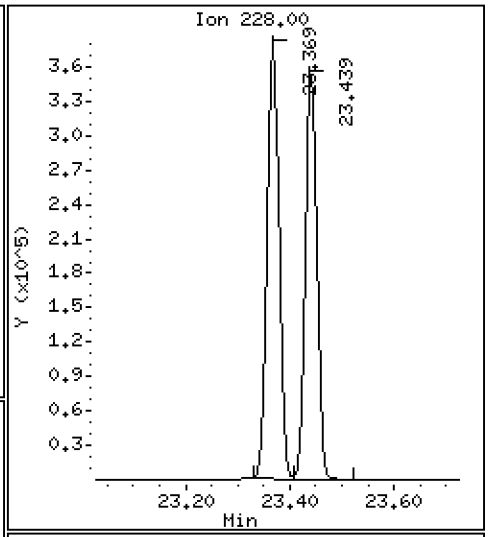
Concentration: 4.819 ug/mL

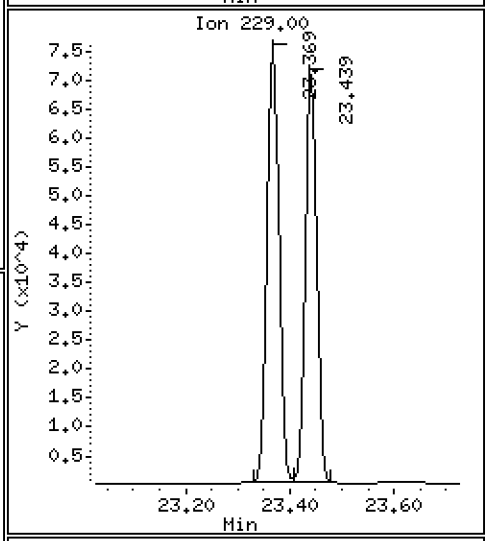


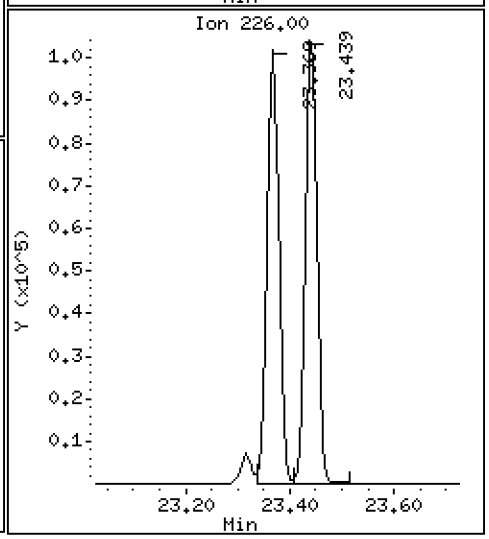












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

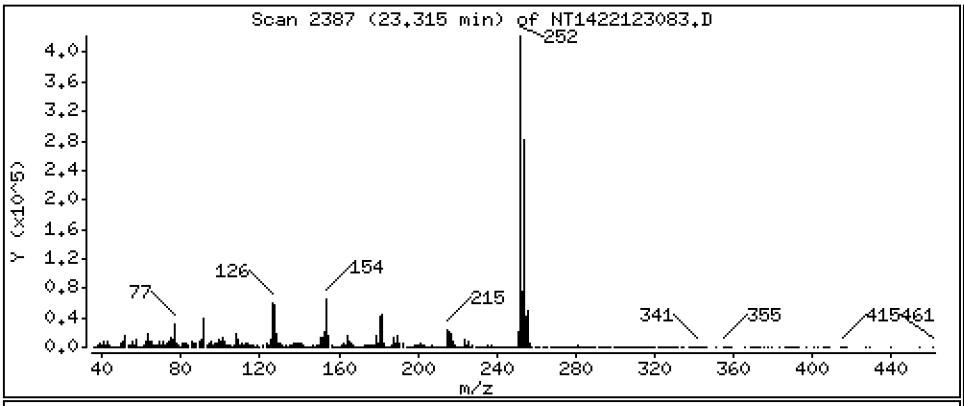
Operator: VTS

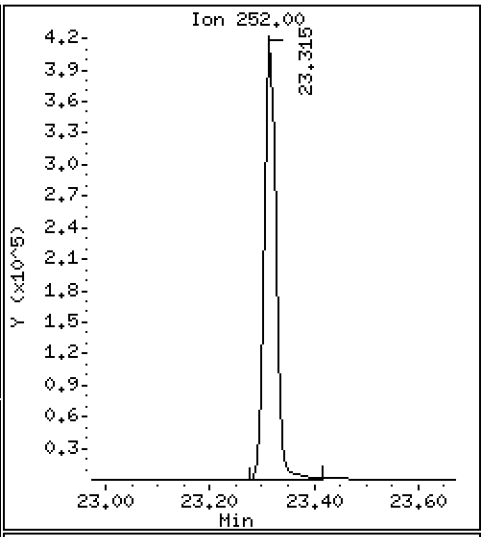
Column phase: ZB-5msi

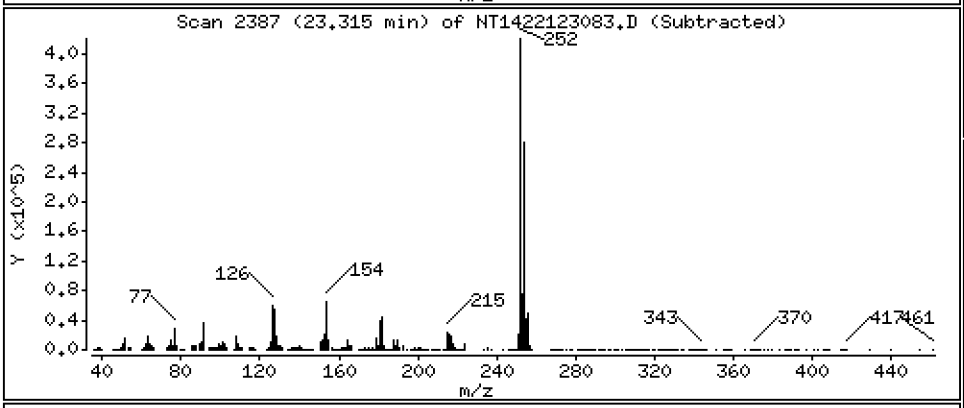
Column diameter: 0.25

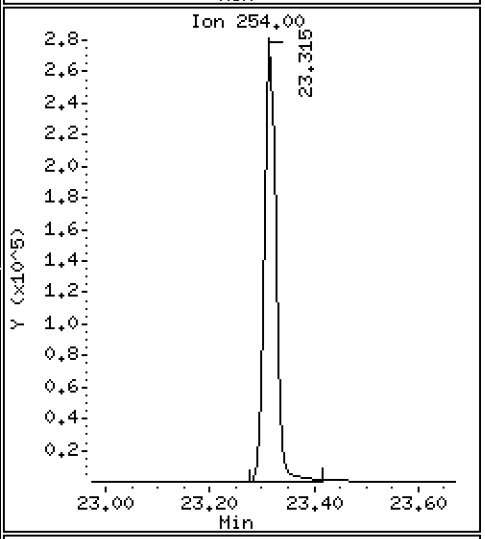
70 3,3'-Dichlorobenzidine

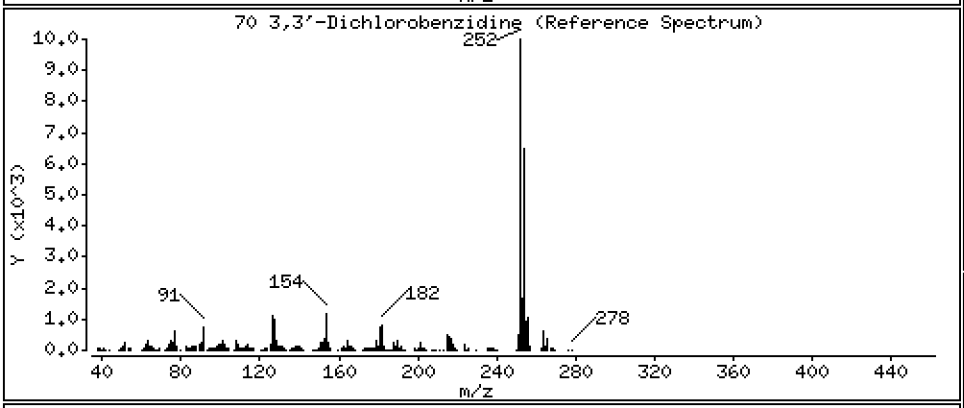
Concentration: 16.87 ug/mL

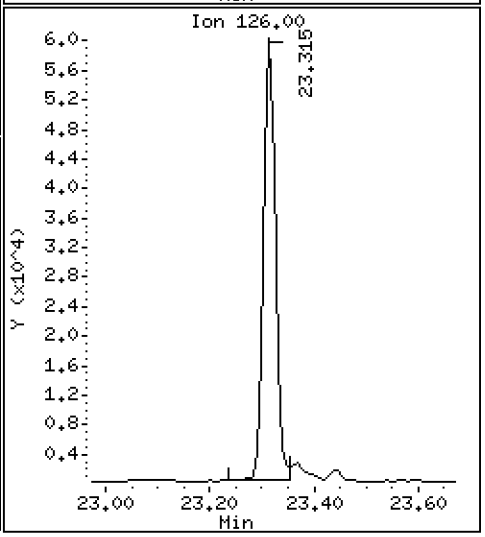


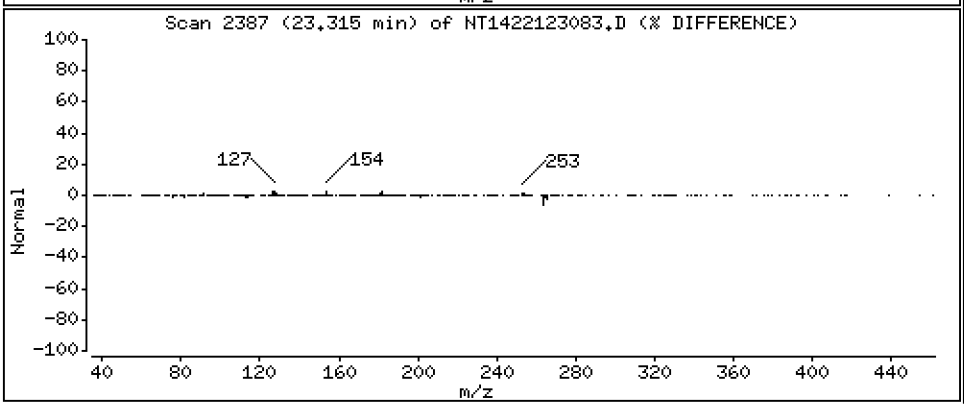












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

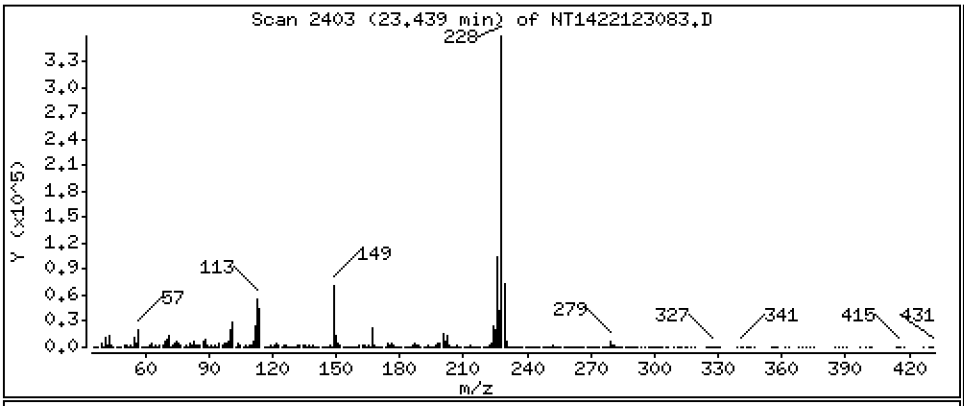
Operator: VTS

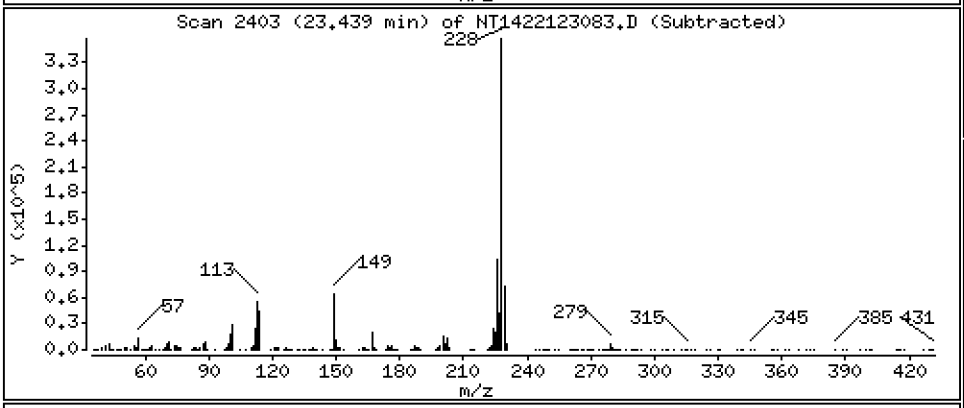
Column phase: ZB-5msi

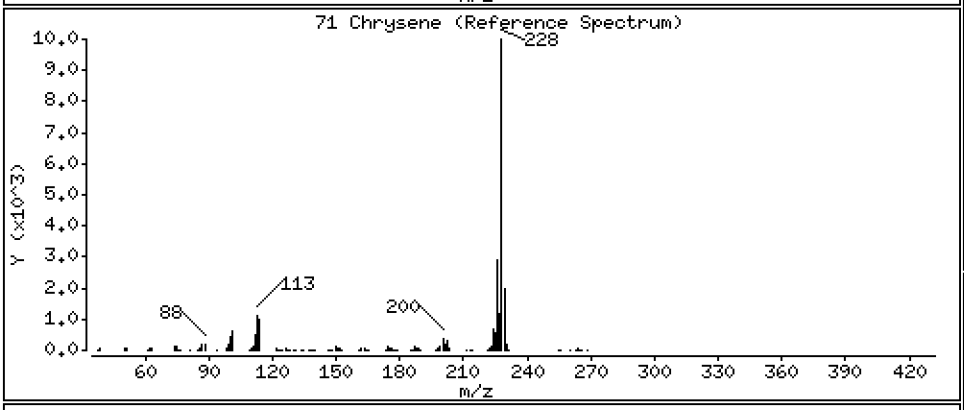
Column diameter: 0.25

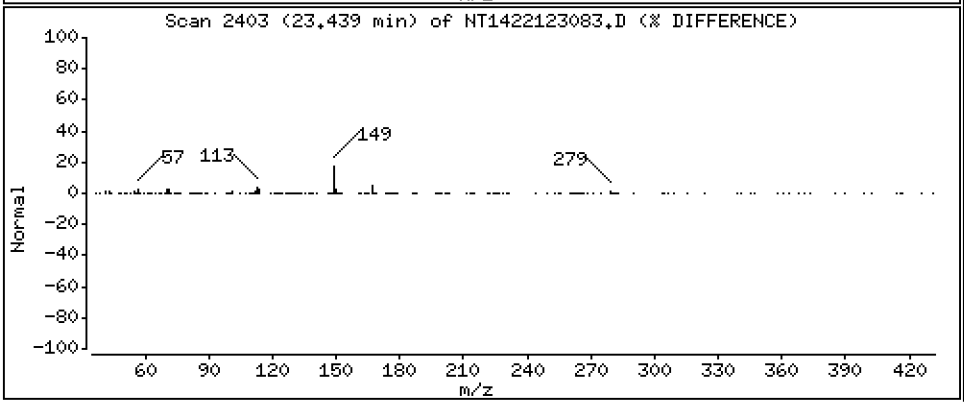
71 Chrysene

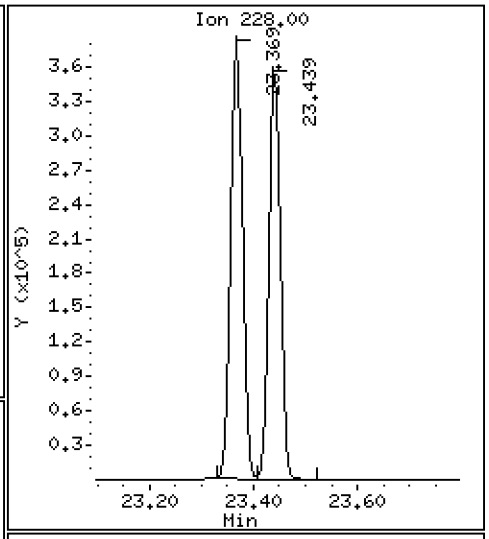
Concentration: 4.720 ug/mL

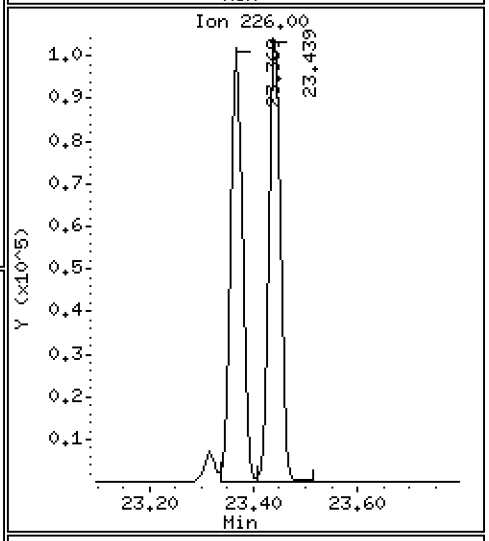


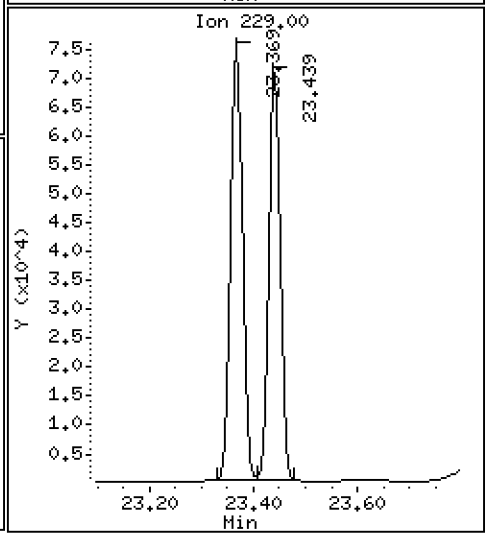












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

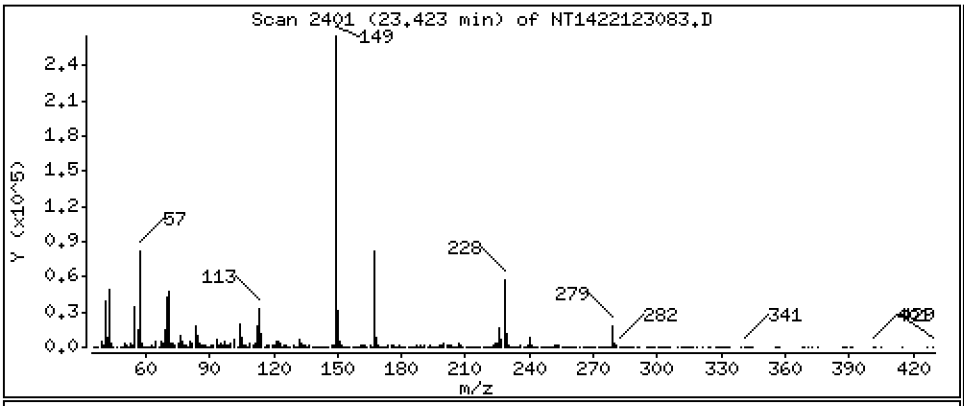
Operator: VTS

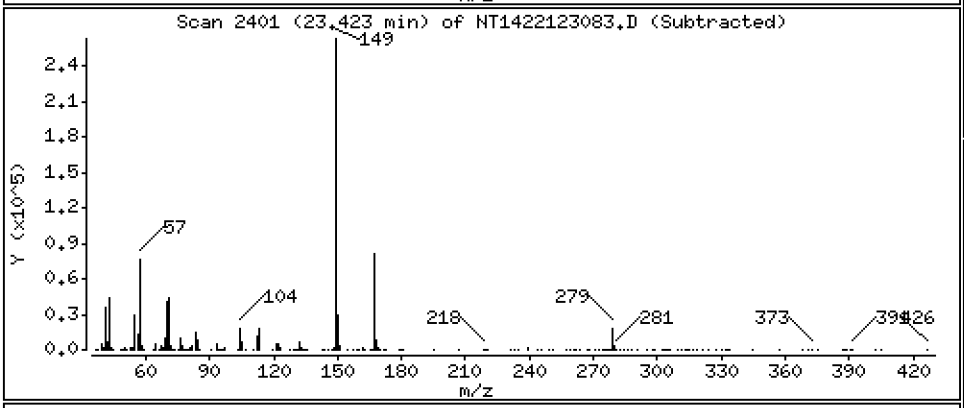
Column phase: ZB-5msi

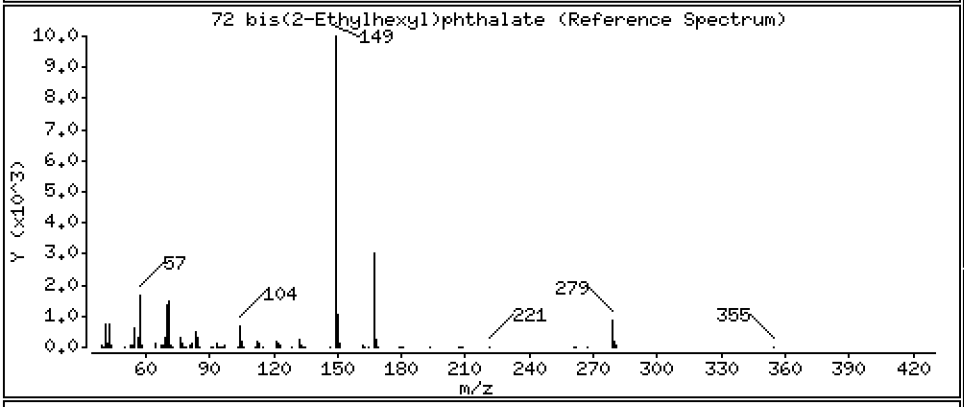
Column diameter: 0.25

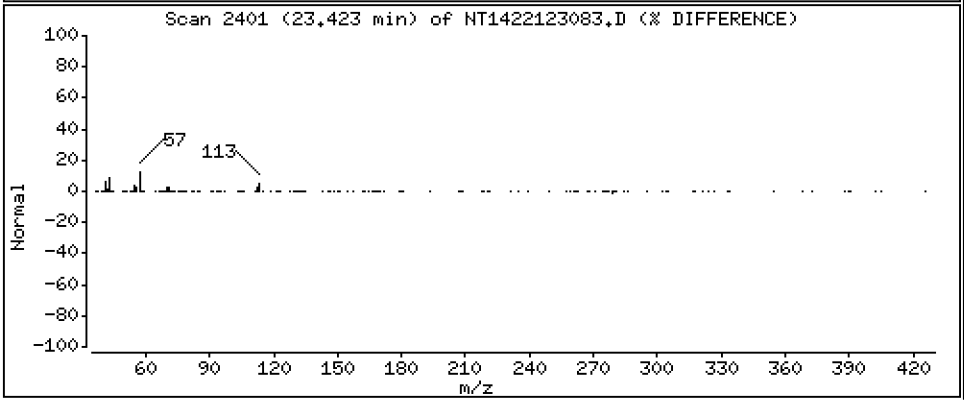
72 bis(2-Ethylhexyl)phthalate

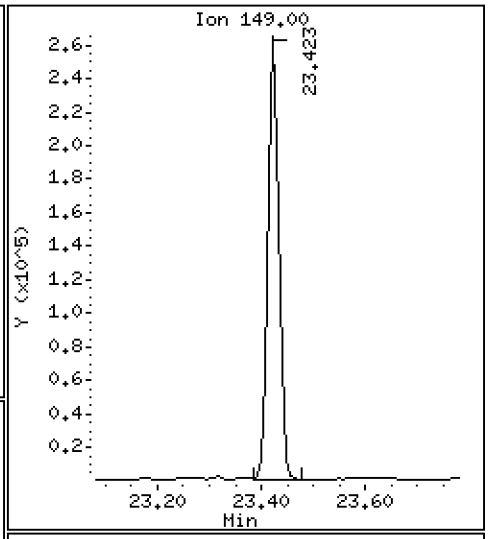
Concentration: 4.870 ug/mL

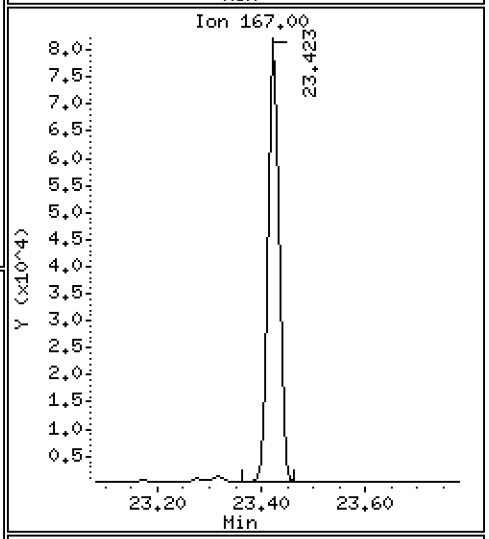


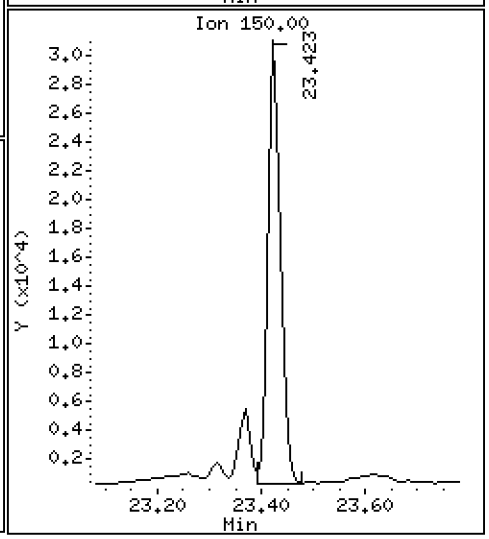












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

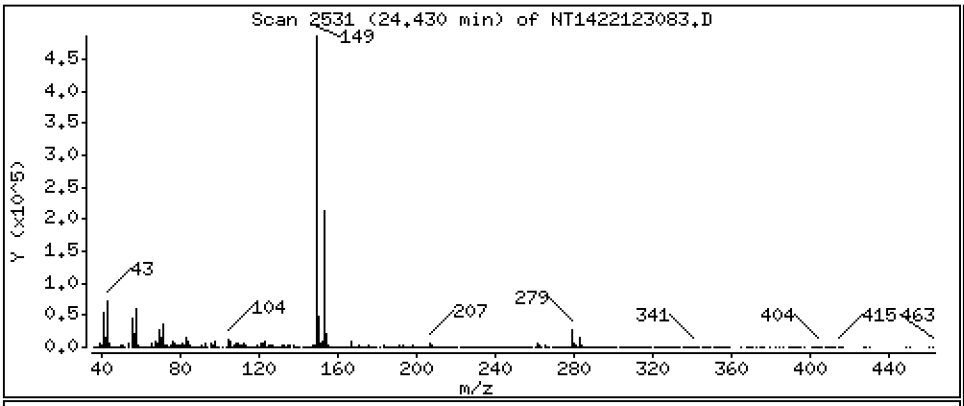
Operator: VTS

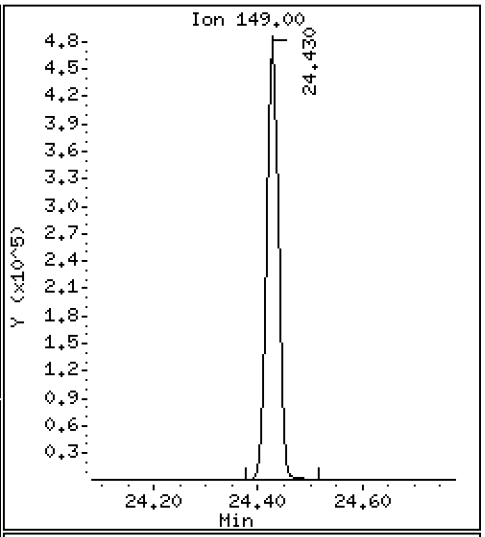
Column phase: ZB-5msi

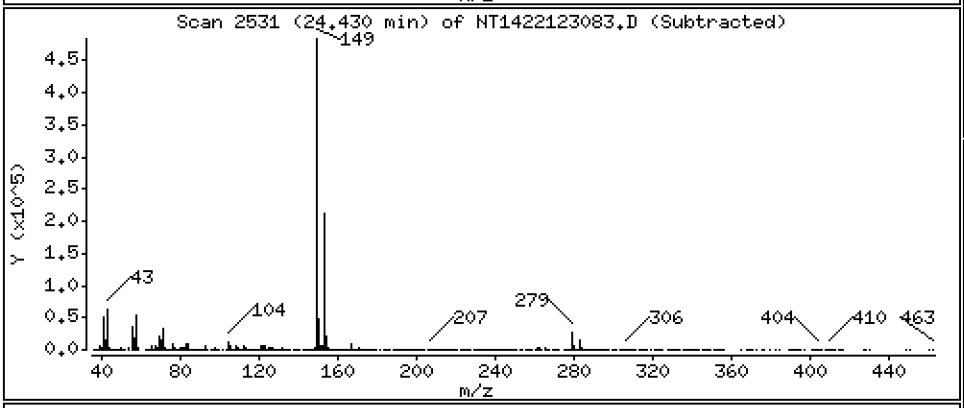
Column diameter: 0.25

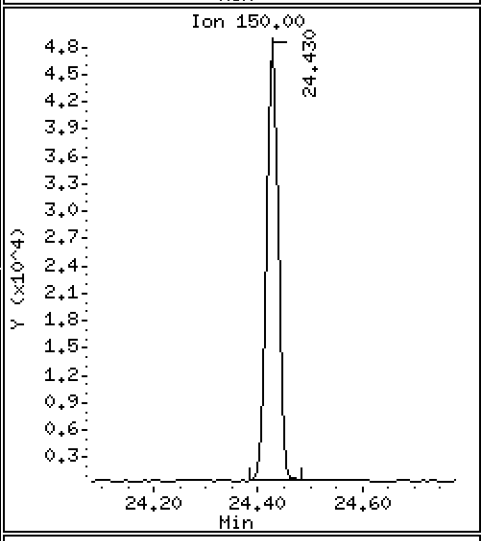
73 Di-n-octylphthalate

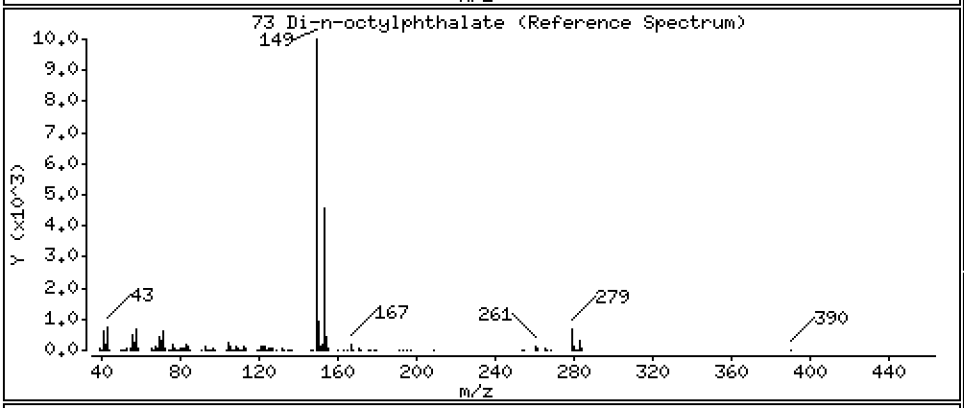
Concentration: 4.294 ug/mL

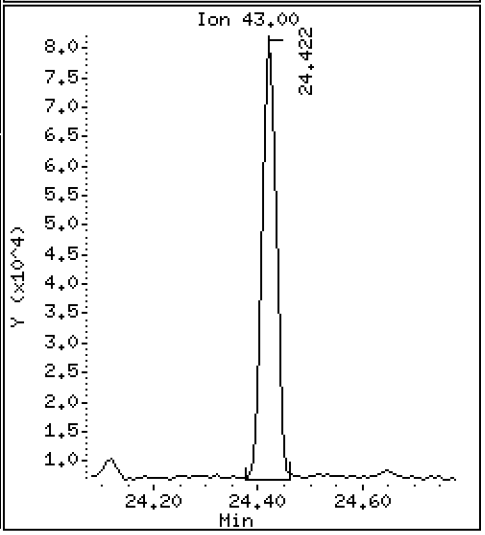


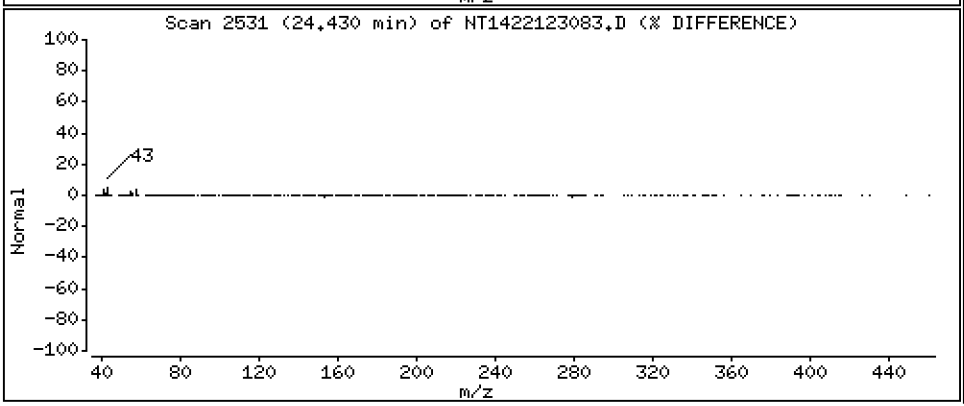












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

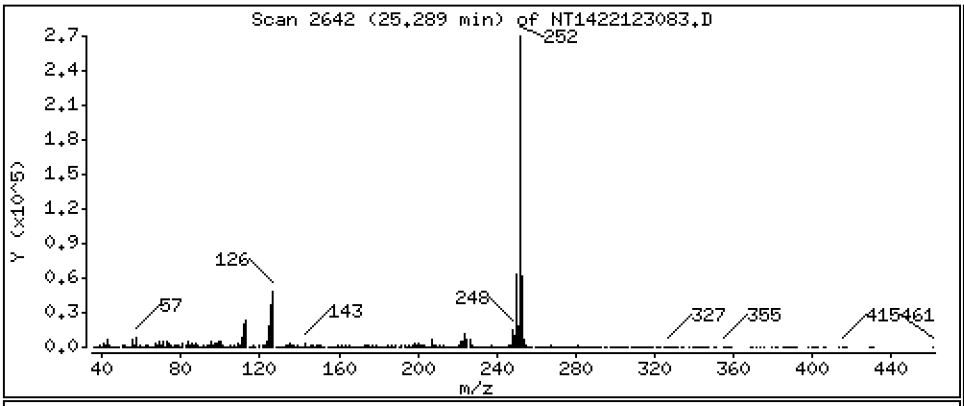
Operator: VTS

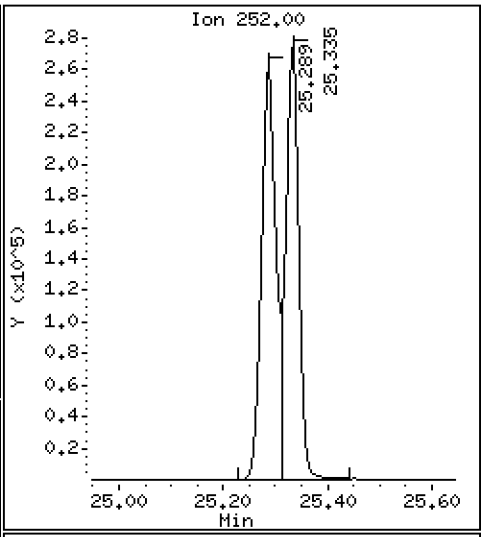
Column phase: ZB-5msi

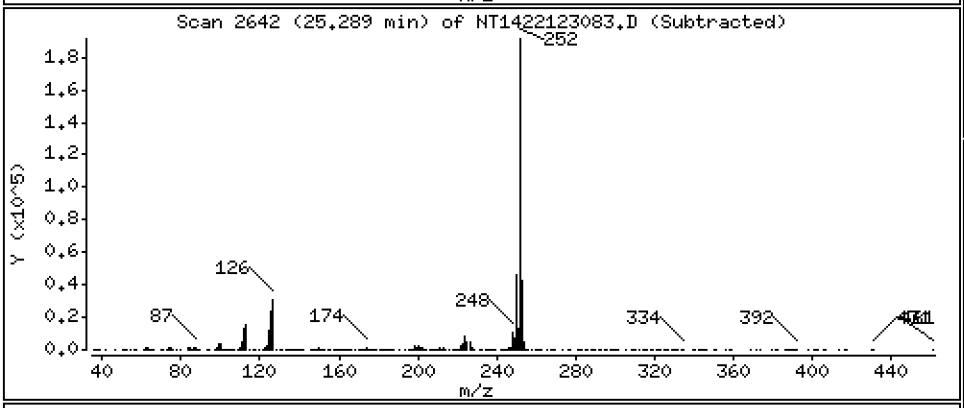
Column diameter: 0.25

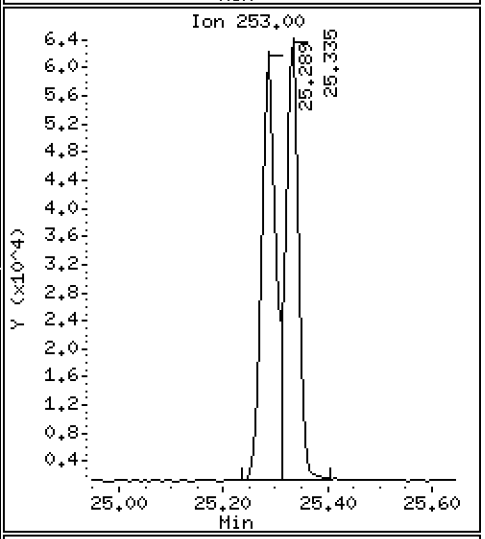
74 Benzo(b)fluoranthene

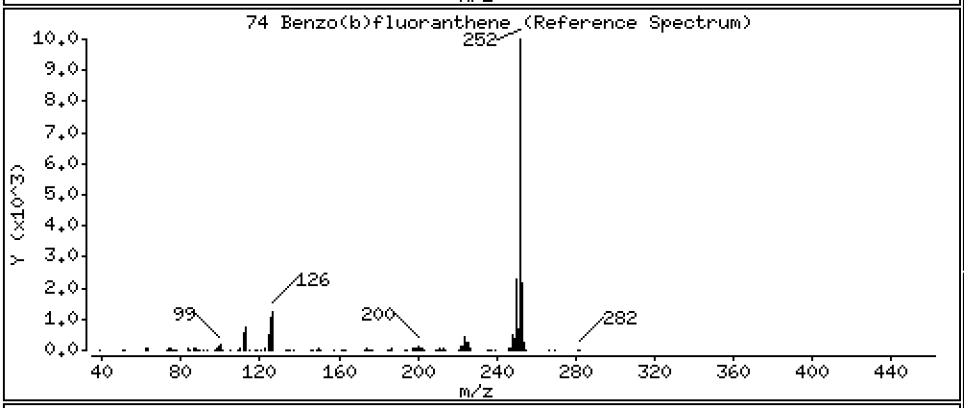
Concentration: 5.553 ug/mL

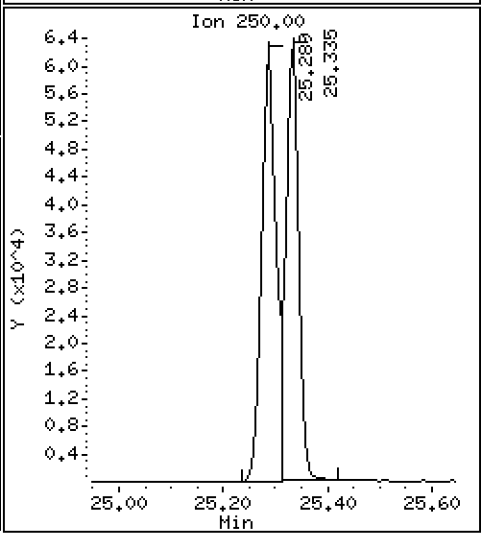


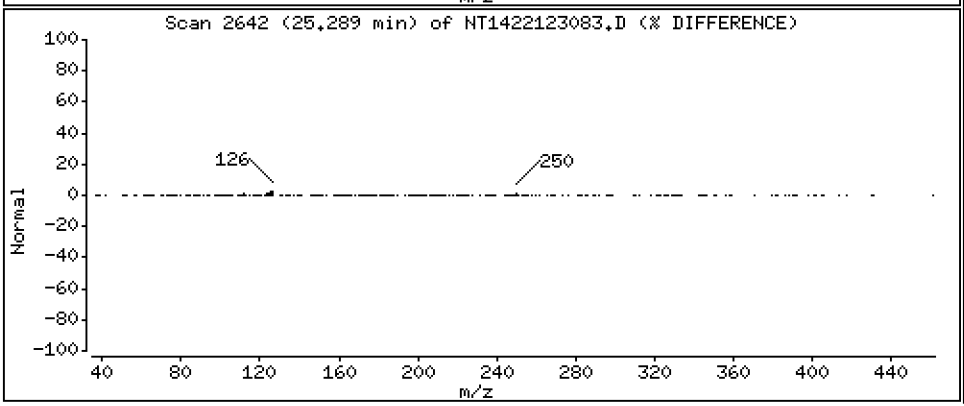












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

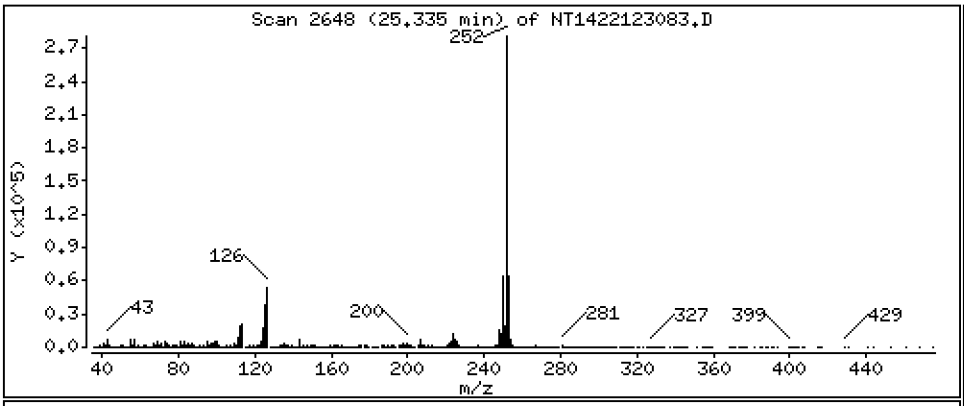
Operator: VTS

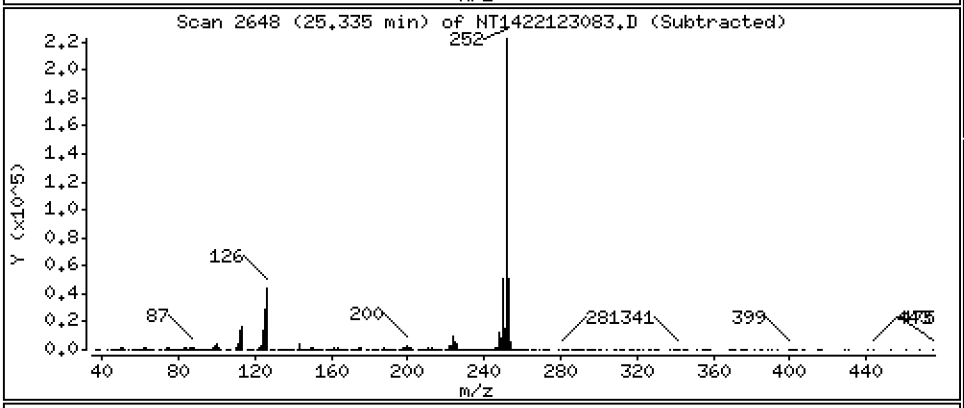
Column phase: ZB-5msi

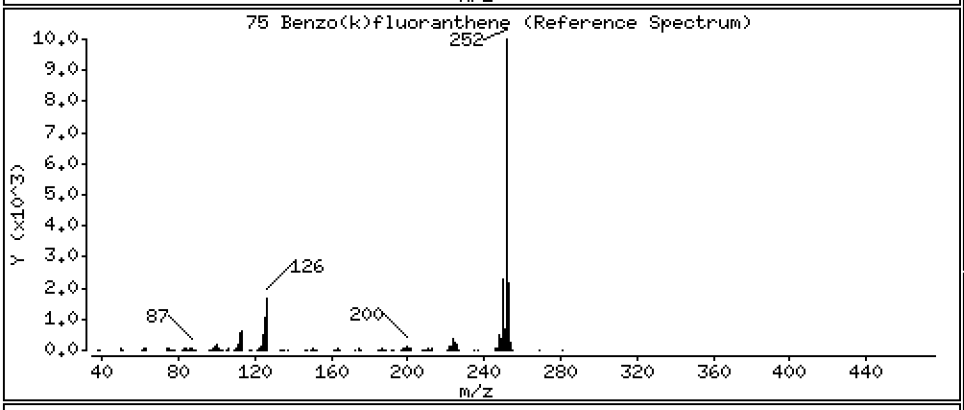
Column diameter: 0.25

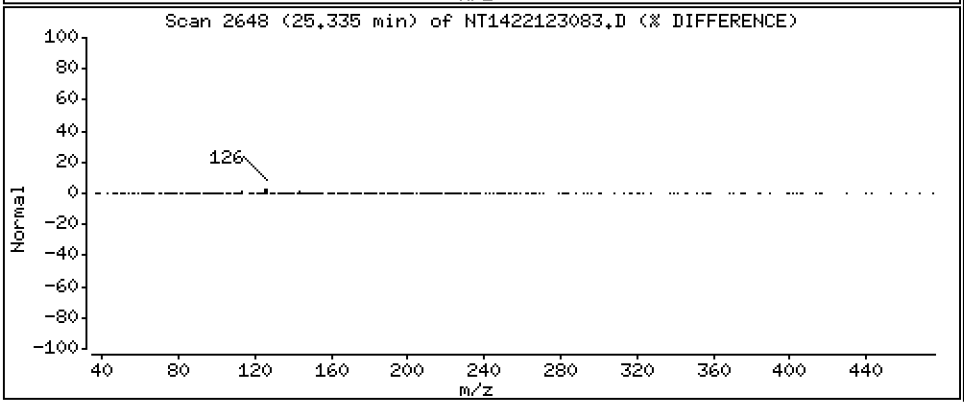
75 Benzo(k)fluoranthene

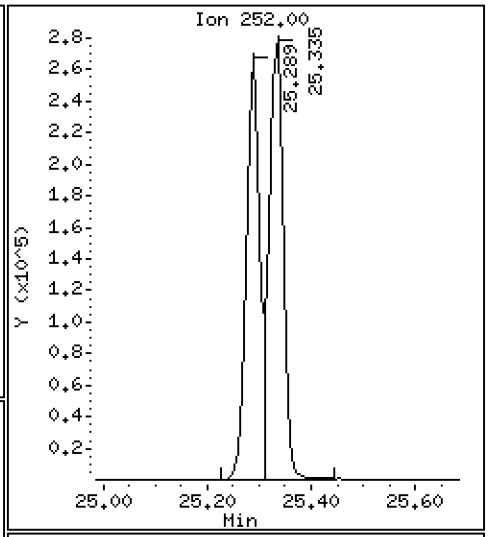
Concentration: 5.349 ug/mL

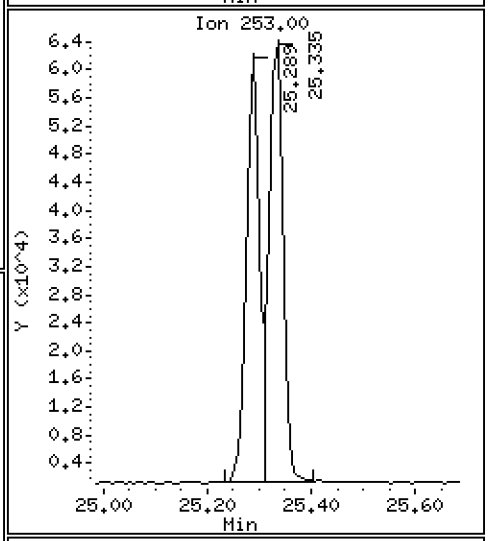


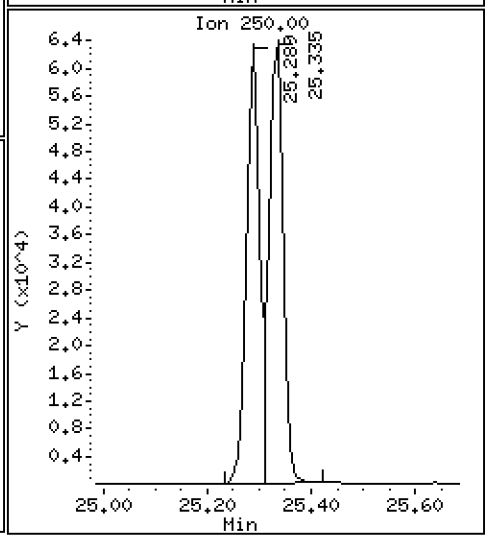












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

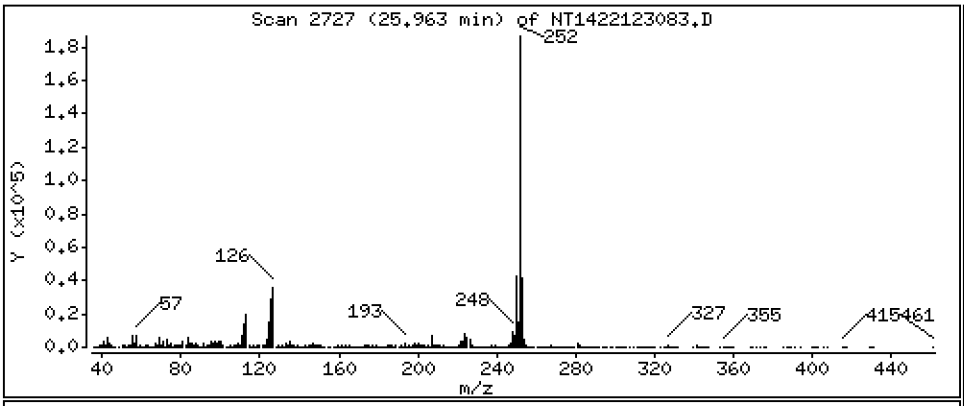
Operator: VTS

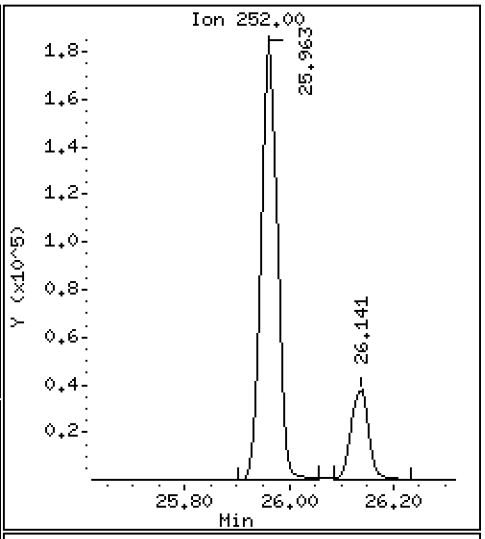
Column phase: ZB-5msi

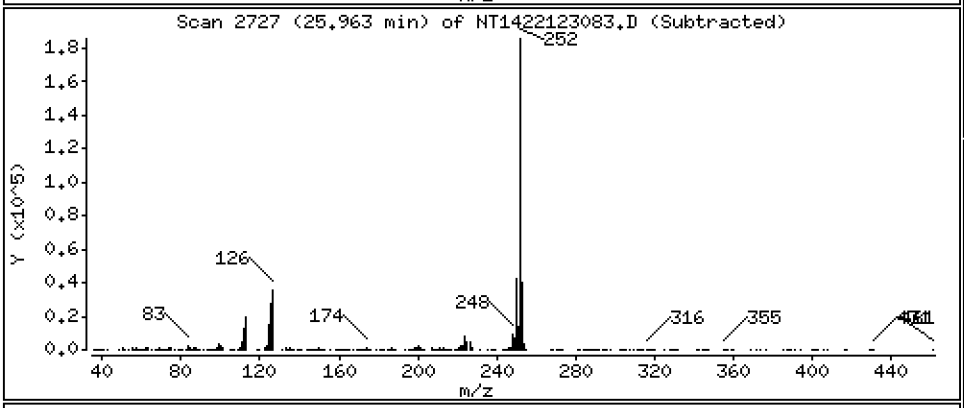
Column diameter: 0.25

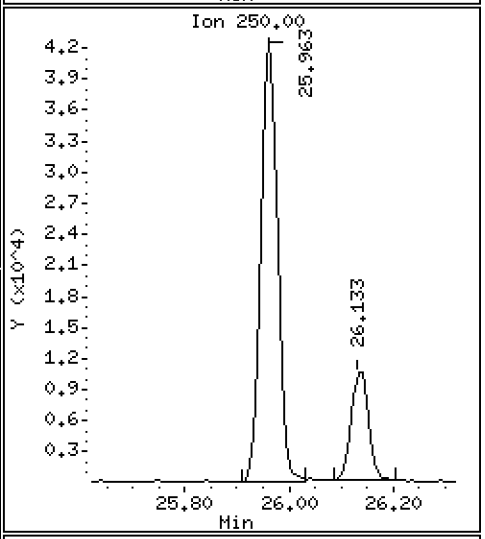
76 Benzo(a)pyrene

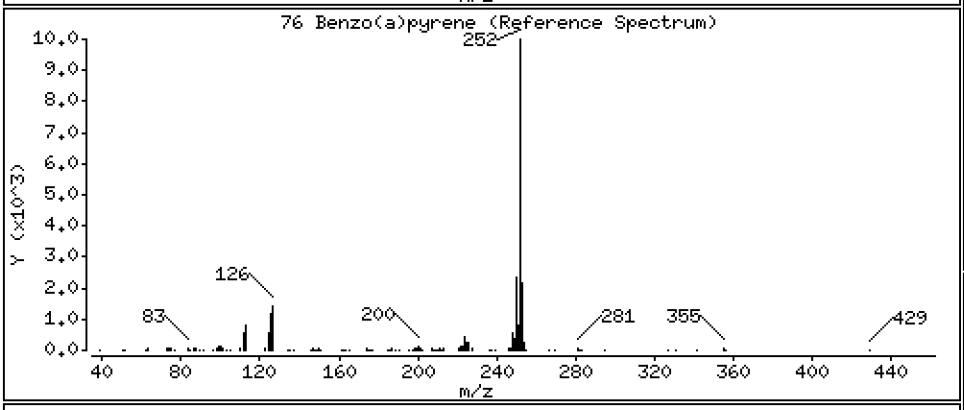
Concentration: 5.014 ug/mL

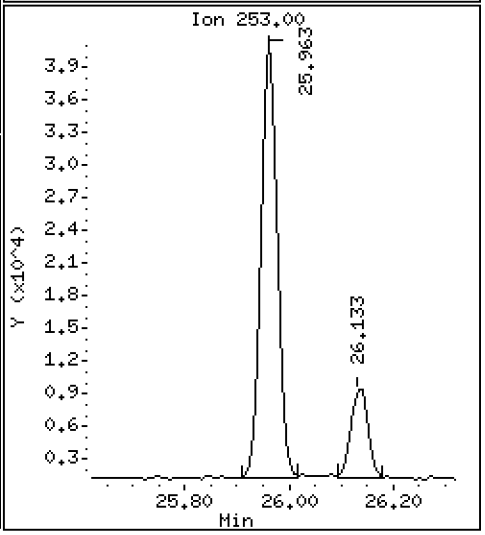


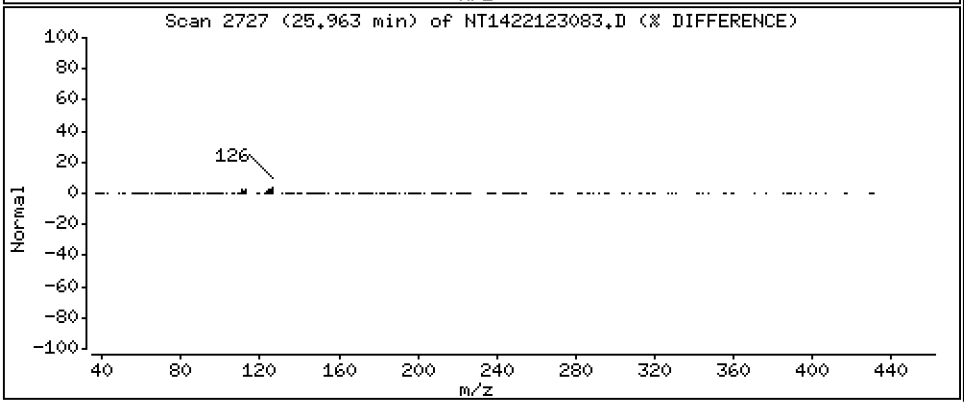












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

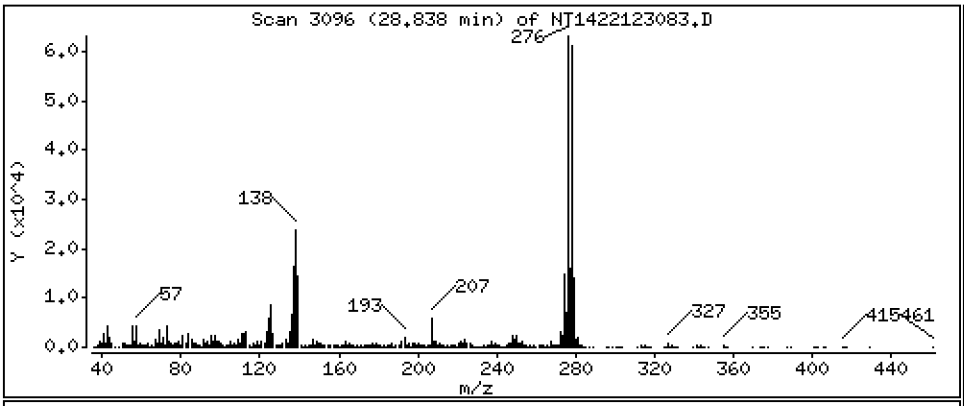
Operator: VTS

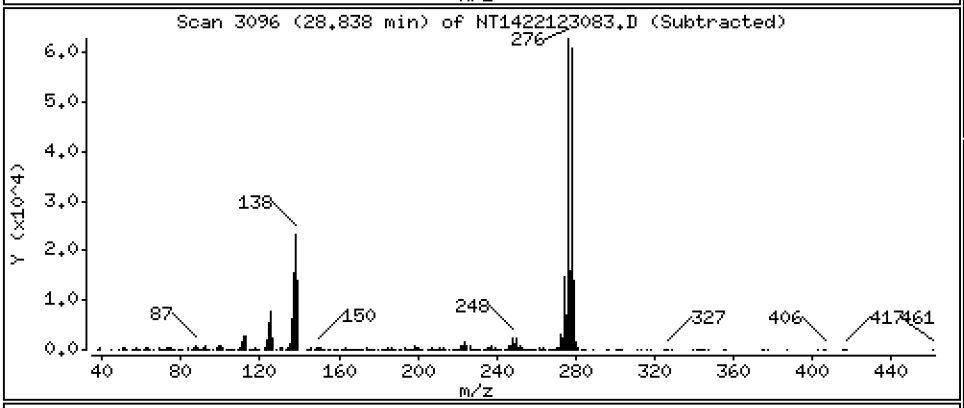
Column phase: ZB-5msi

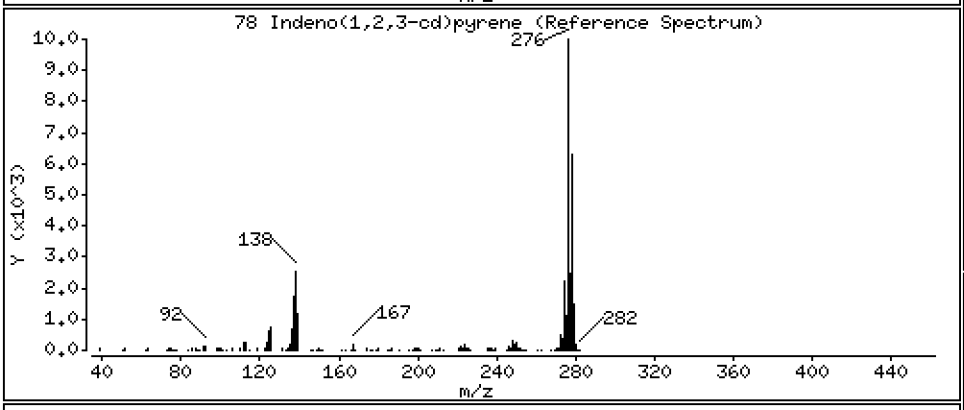
Column diameter: 0.25

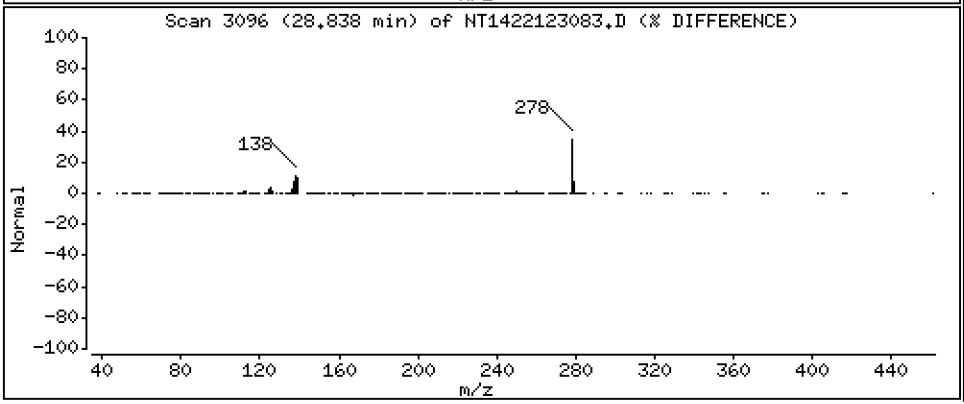
78 Indeno(1,2,3-cd)pyrene

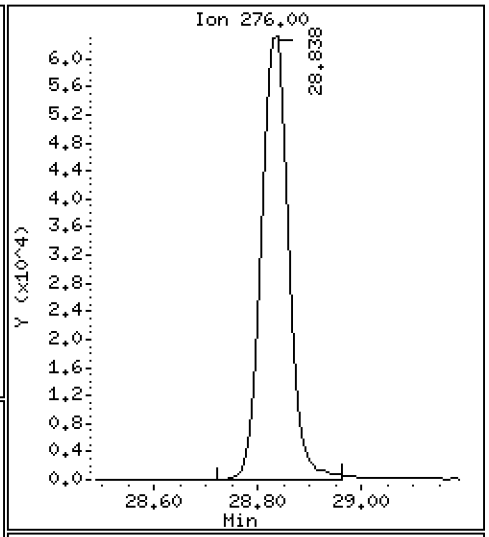
Concentration: 2.570 ug/mL

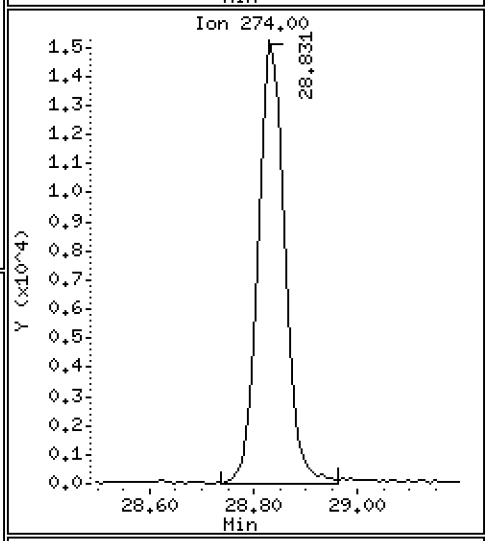


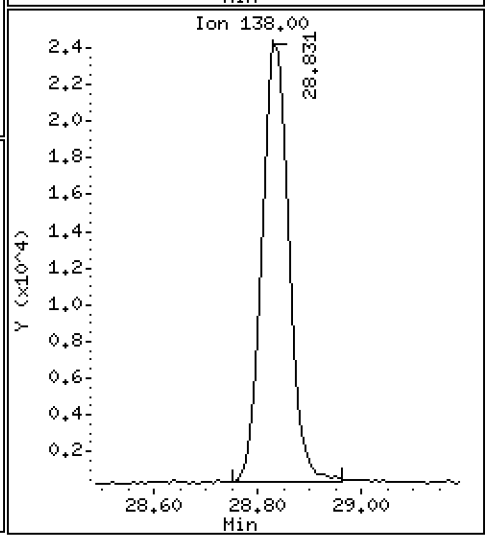












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

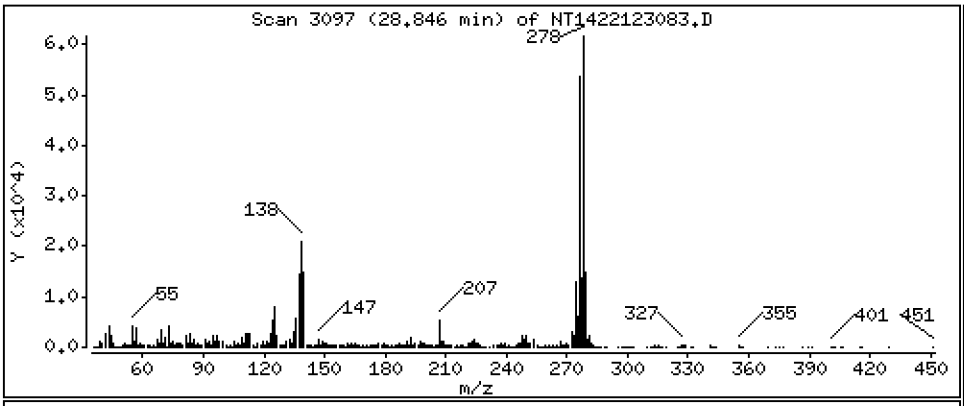
Operator: VTS

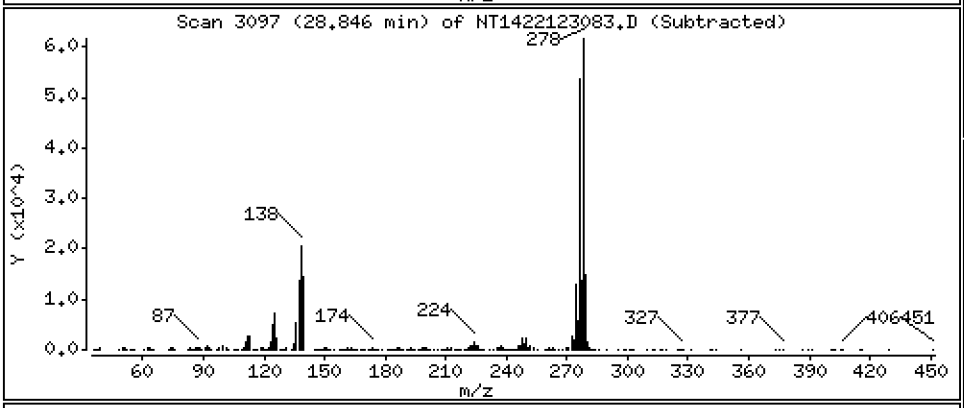
Column phase: ZB-5msi

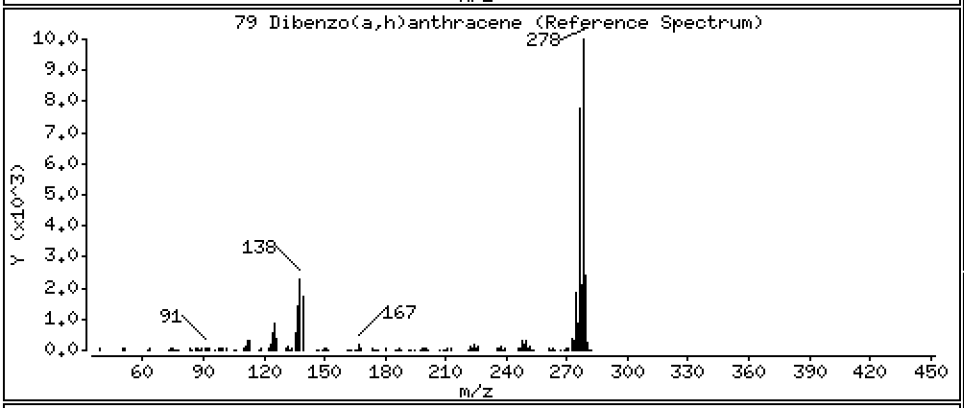
Column diameter: 0.25

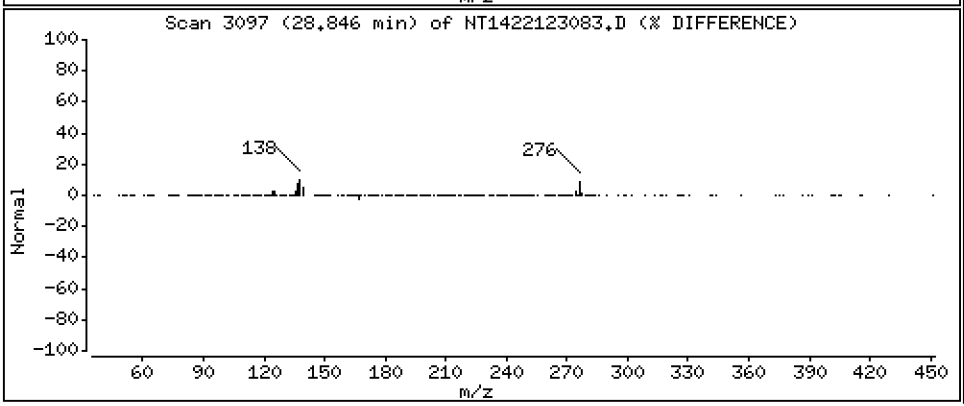
79 Dibenzo(a,h)anthracene

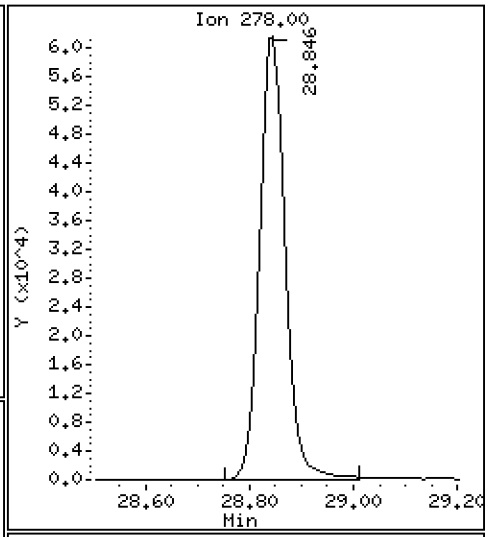
Concentration: 2.747 ug/mL

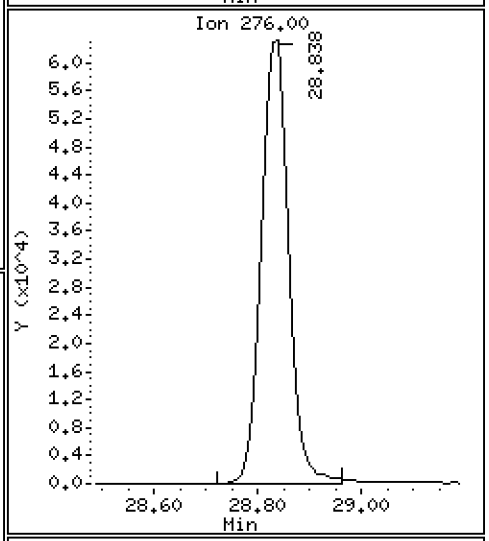


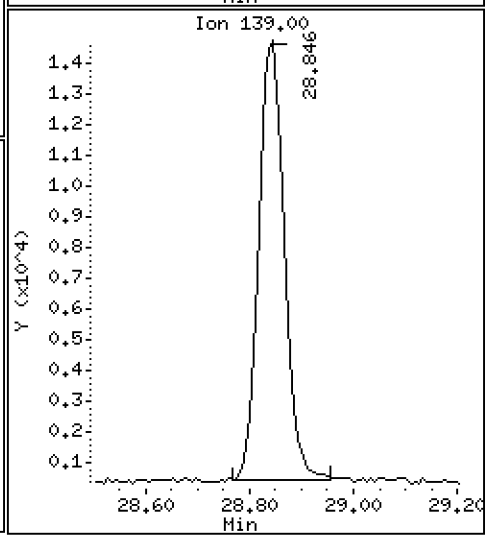












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

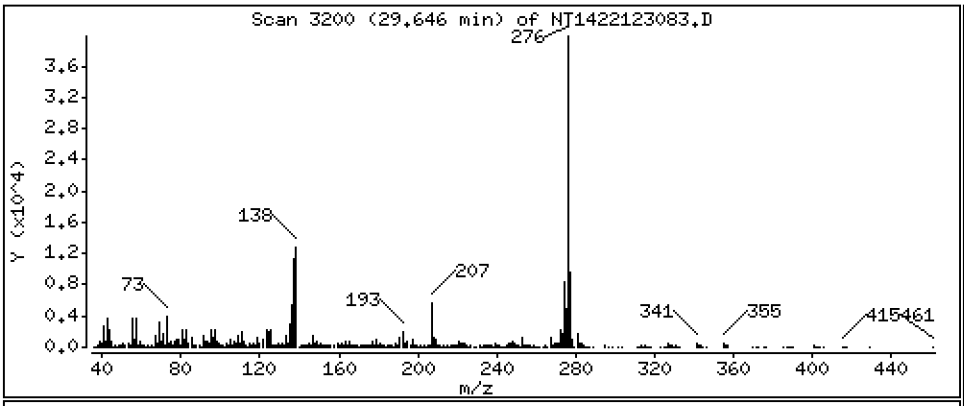
Operator: VTS

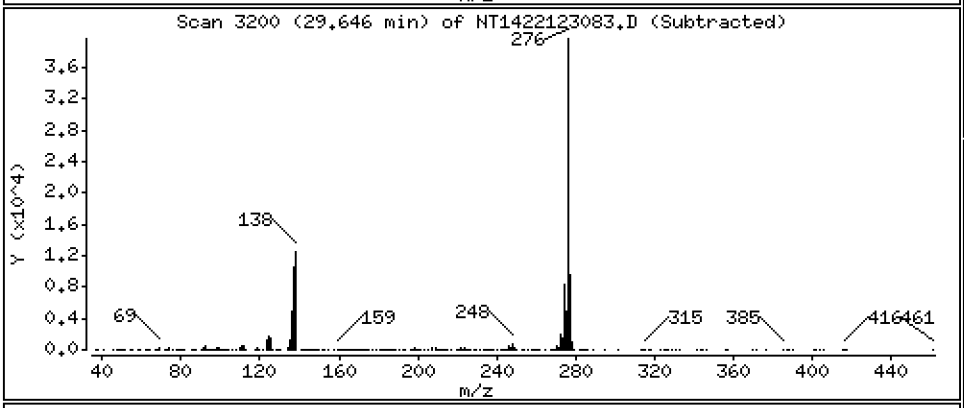
Column phase: ZB-5msi

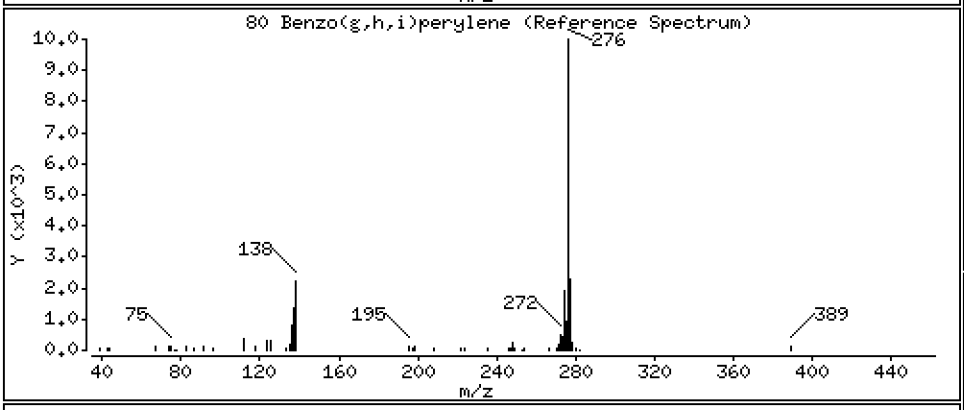
Column diameter: 0.25

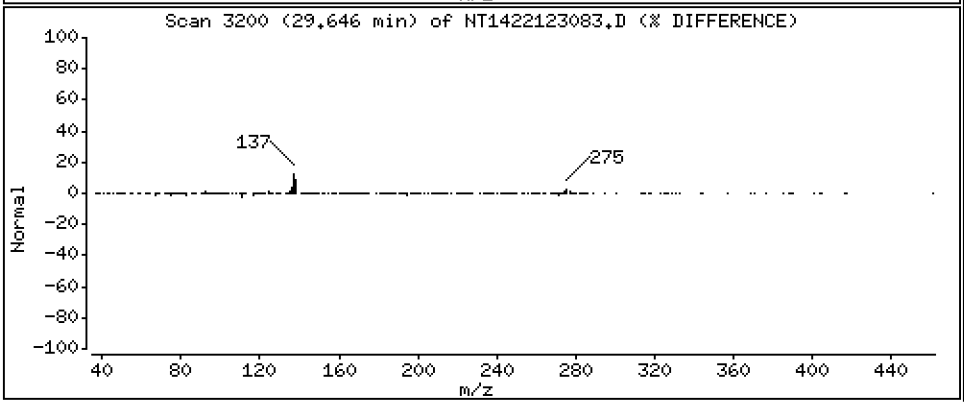
80 Benzo(g,h,i)perylene

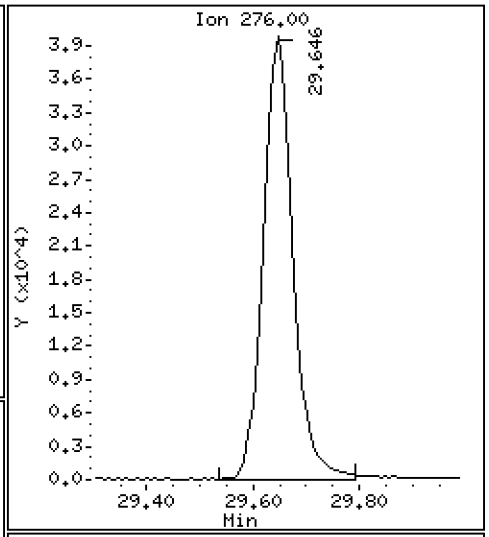
Concentration: 2.081 ug/mL

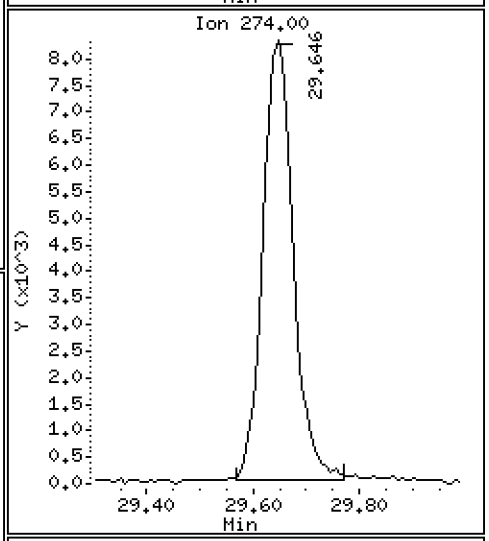


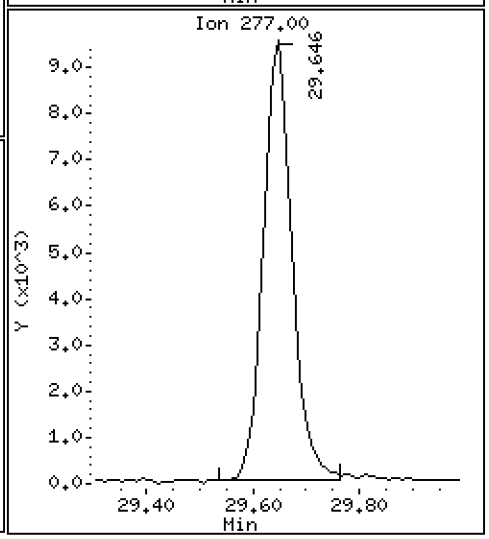












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123083.D

Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

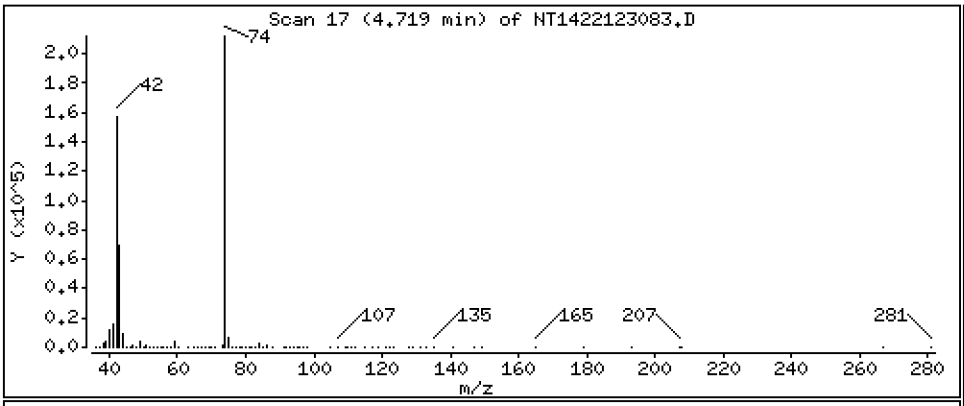
Operator: VTS

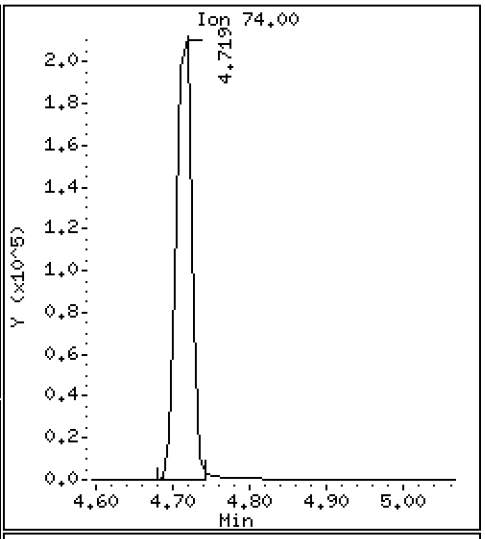
Column phase: ZB-5msi

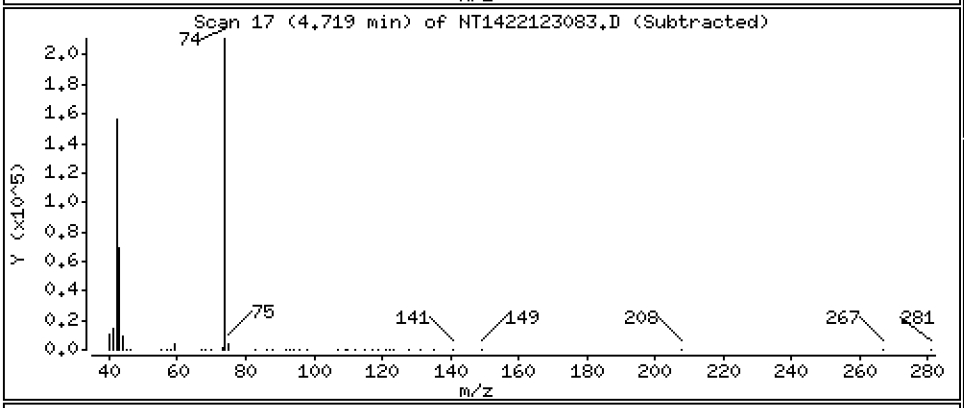
Column diameter: 0.25

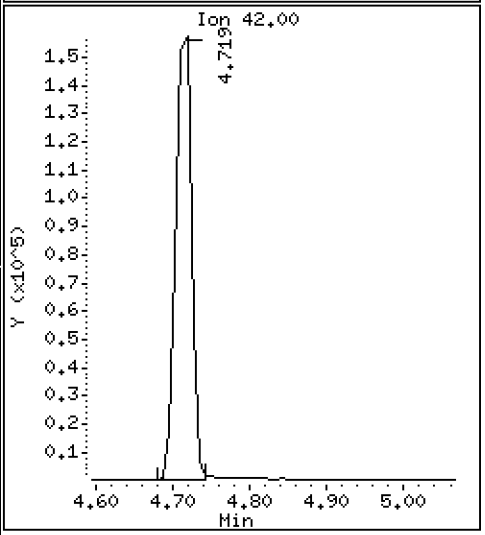
90 N-Nitrosodimethylamine

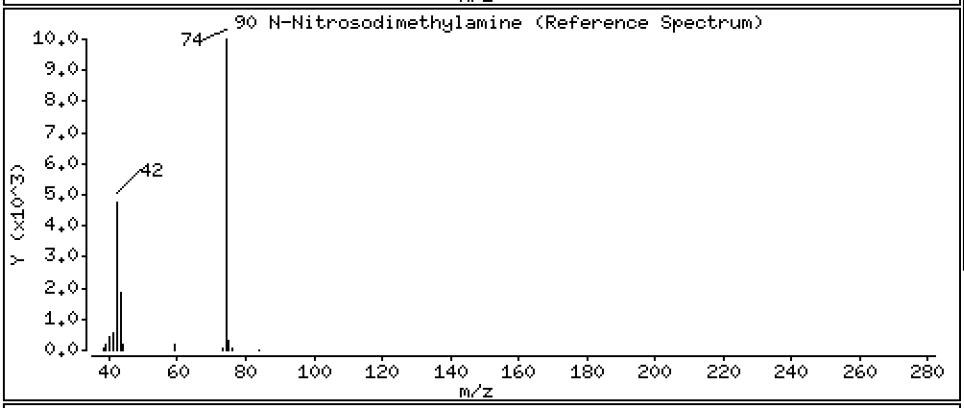
Concentration: 9.625 ug/mL

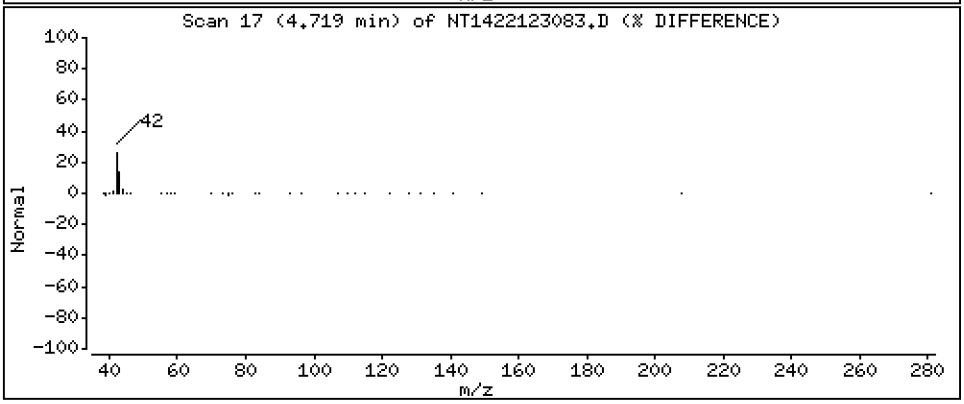












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123083.D

Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

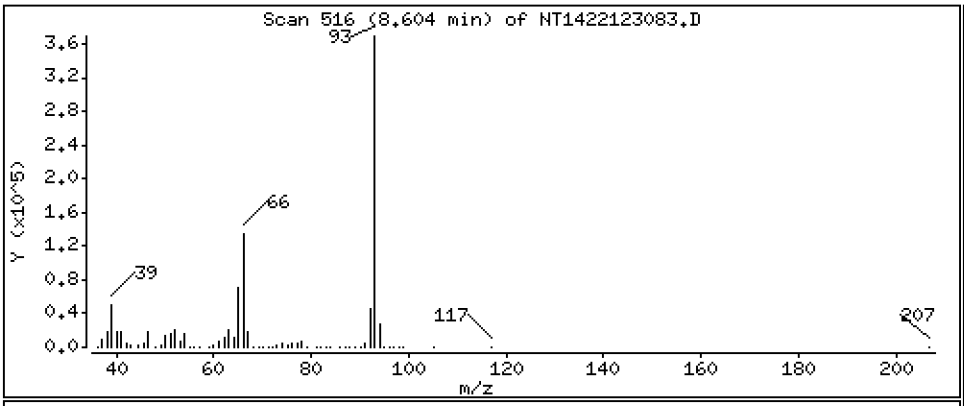
Operator: VTS

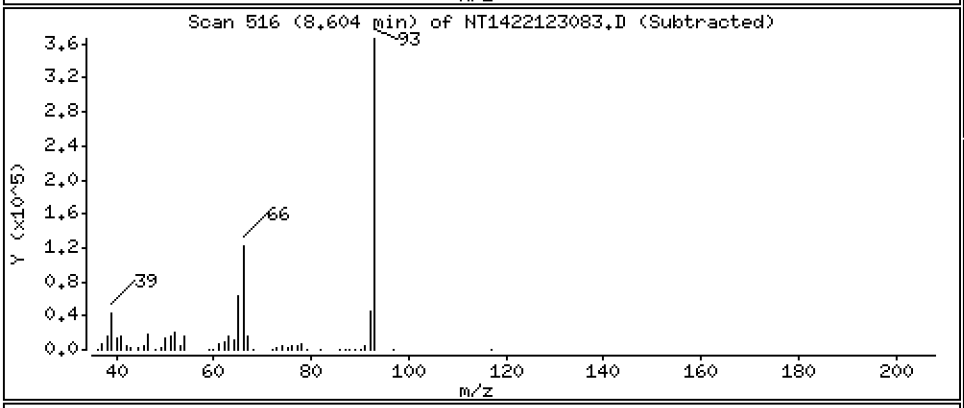
Column phase: ZB-5msi

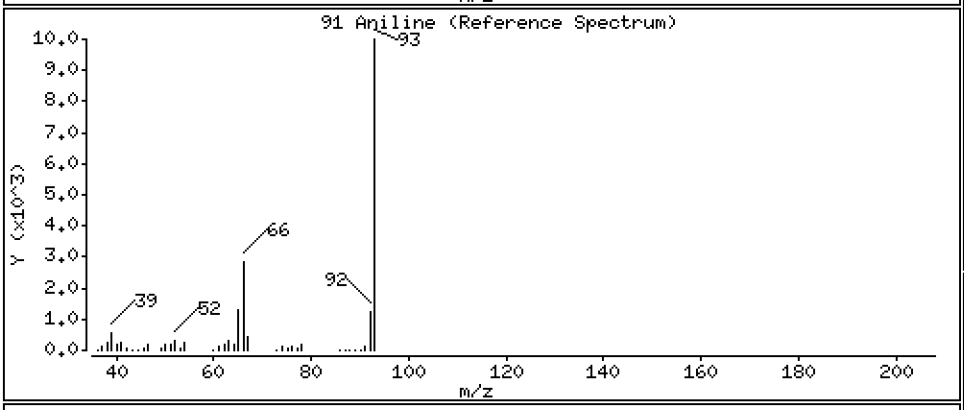
Column diameter: 0.25

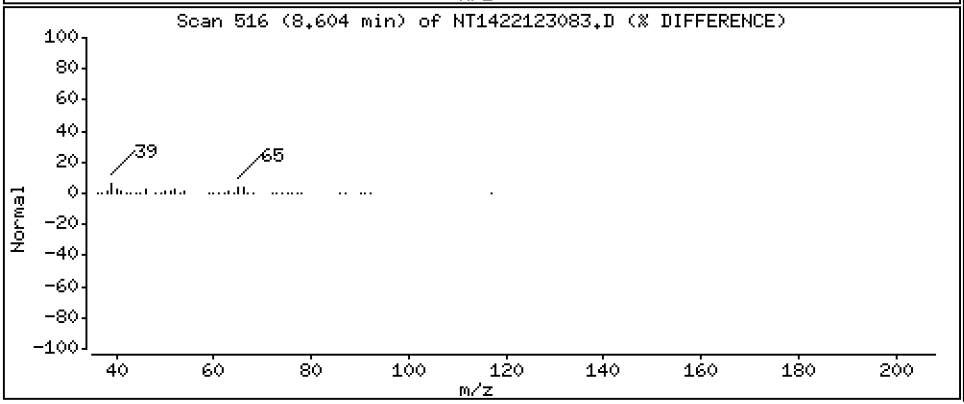
91 Aniline

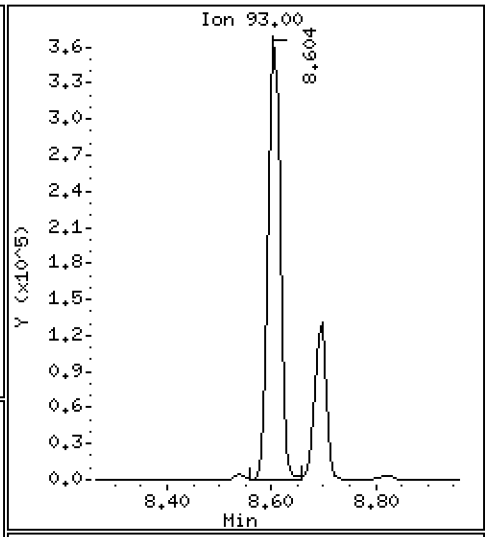
Concentration: 9.483 ug/mL

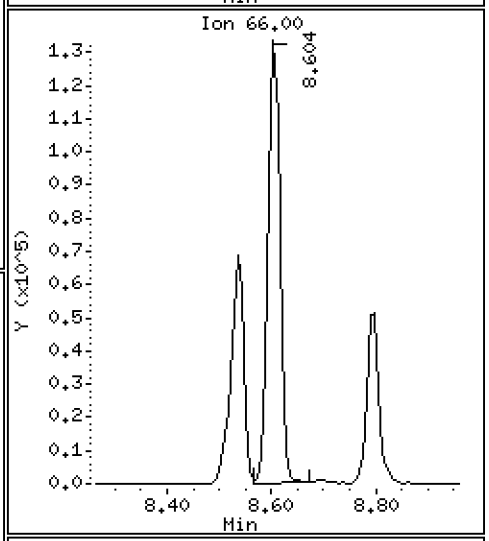


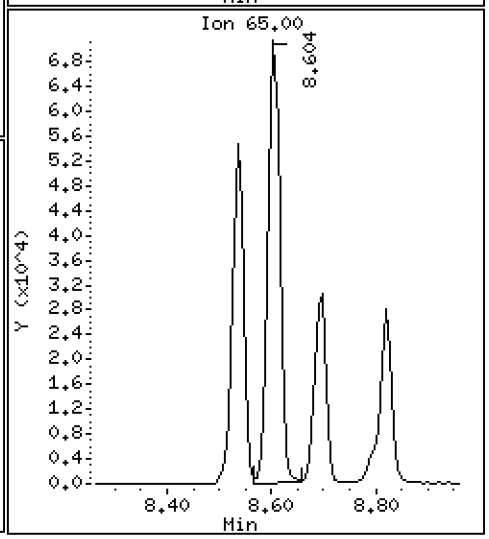












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123083.D

Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

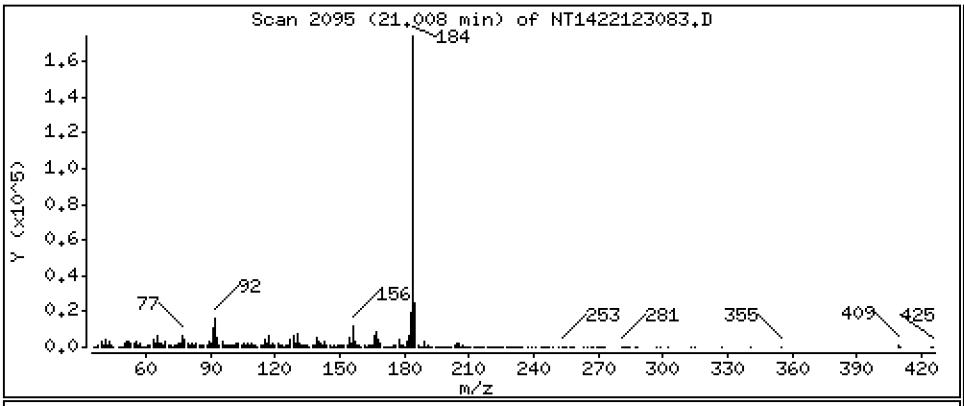
Operator: VTS

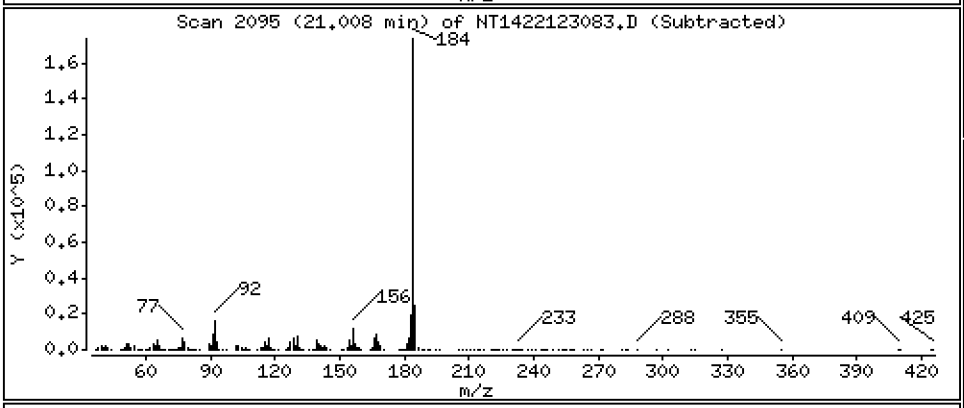
Column phase: ZB-5msi

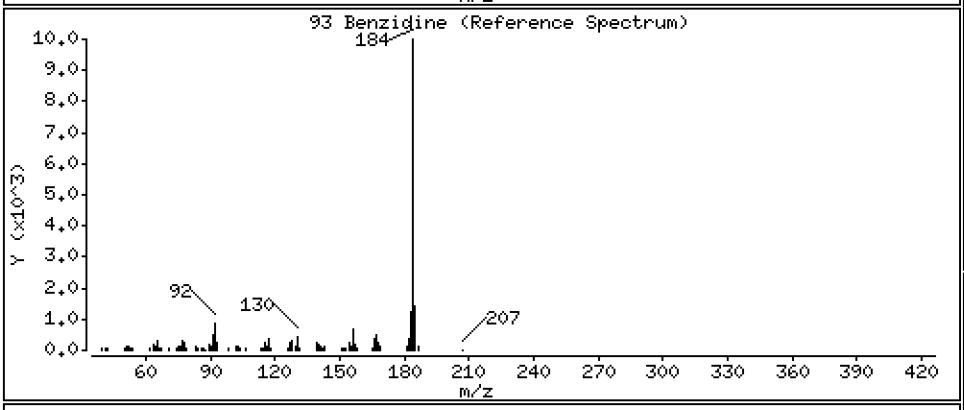
Column diameter: 0.25

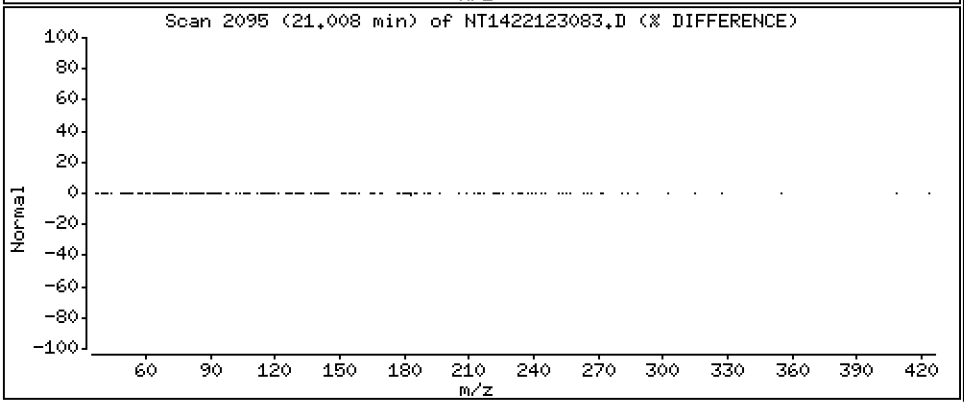
93 Benzidine

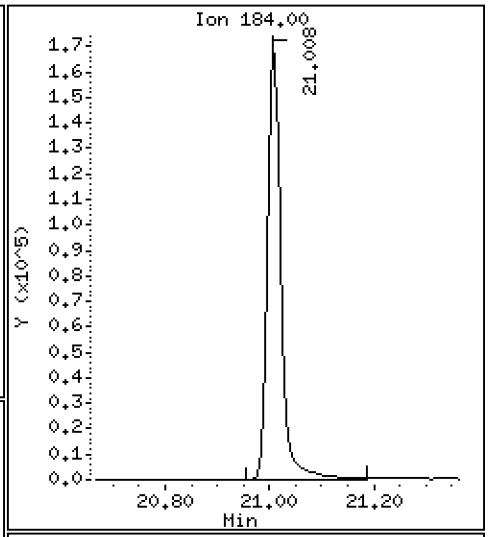
Concentration: 5.898 ug/mL

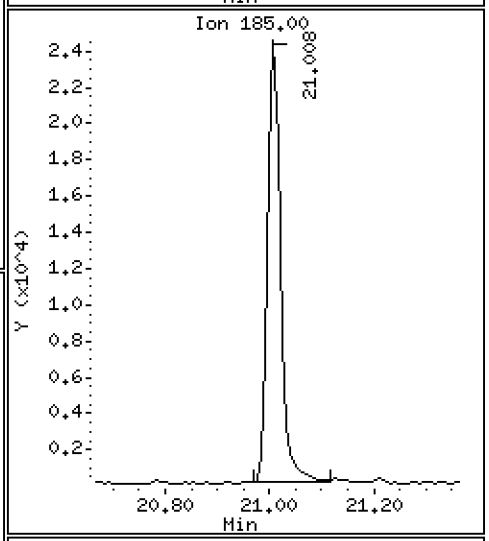


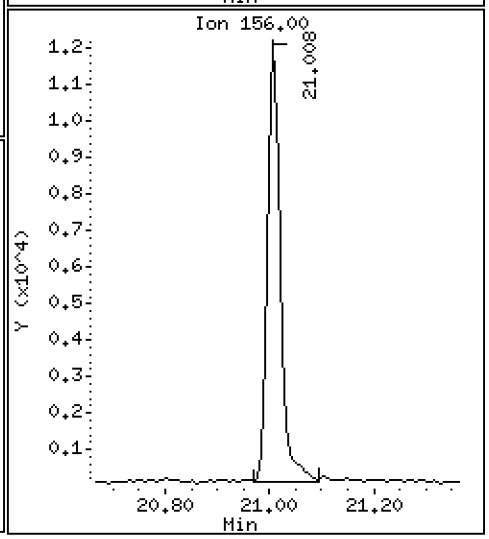












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123083.D

Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

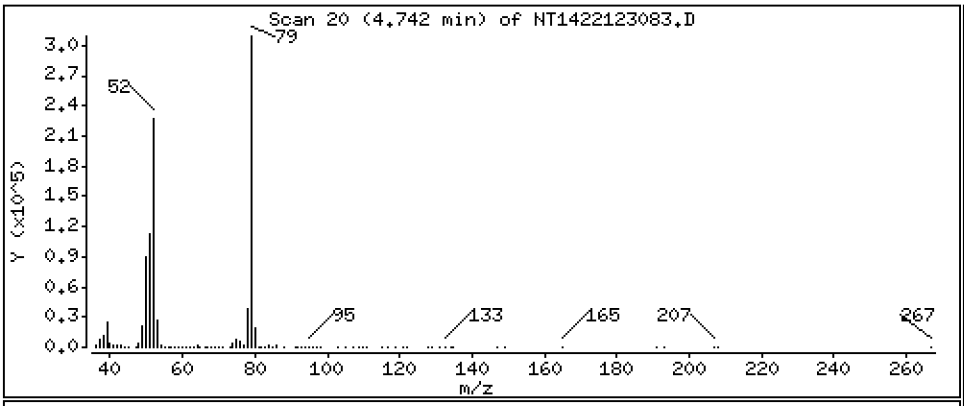
Operator: VTS

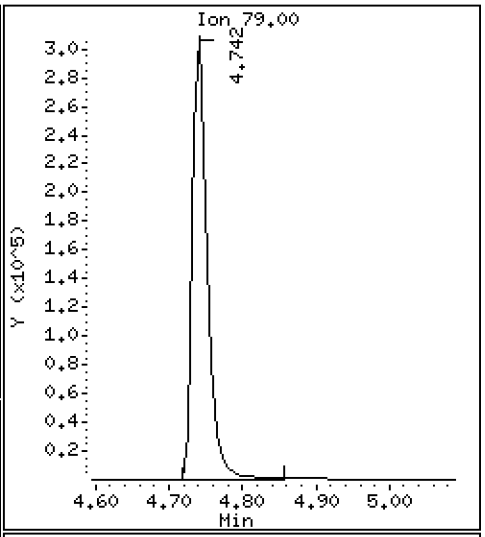
Column phase: ZB-5msi

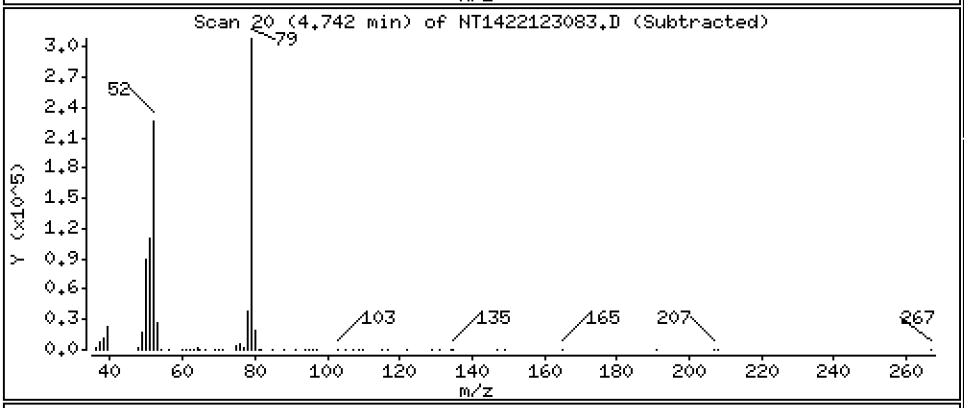
Column diameter: 0.25

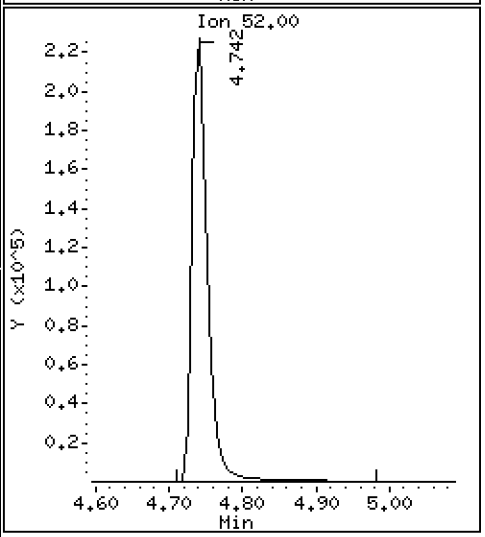
103 Pyridine

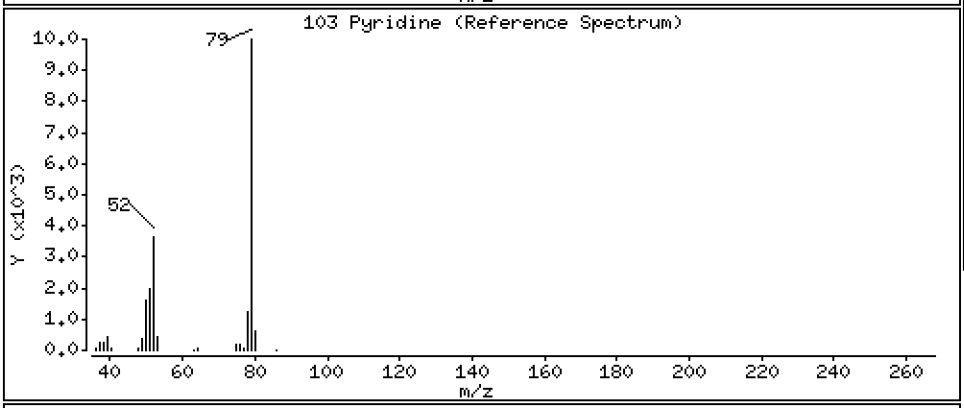
Concentration: 4.600 ug/mL

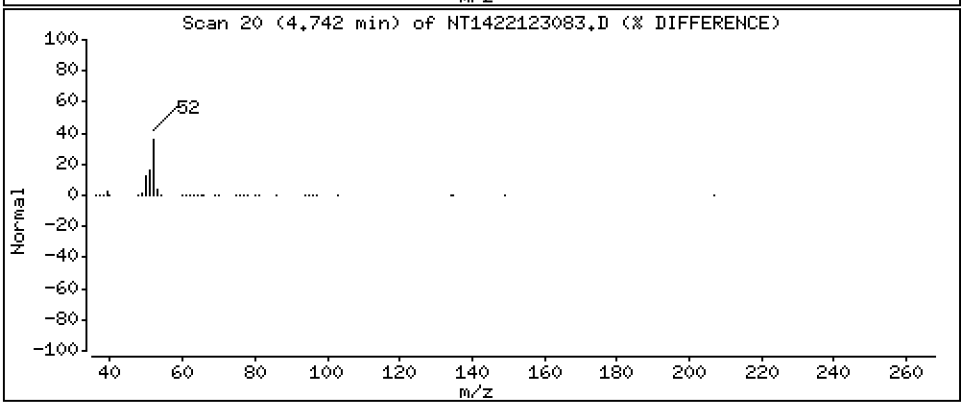












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123083.D

Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

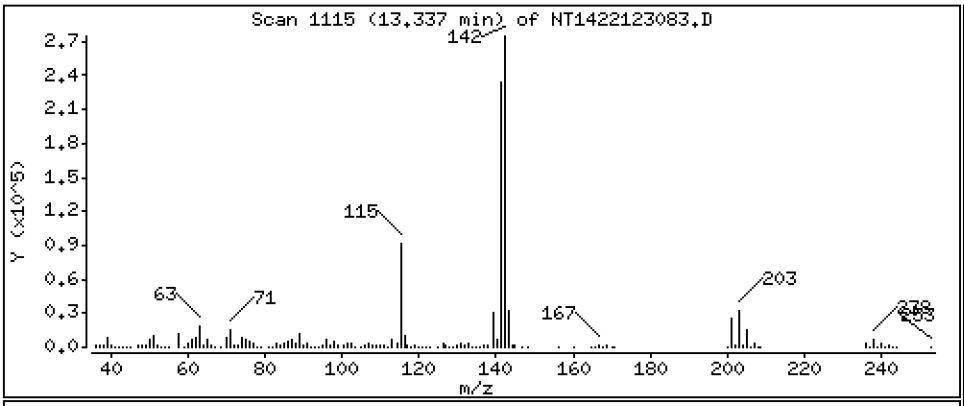
Operator: VTS

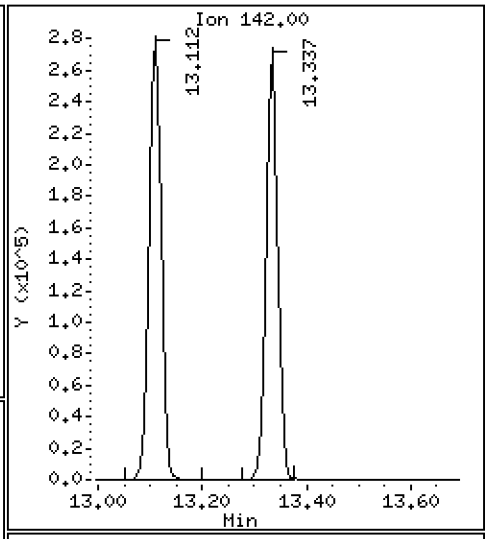
Column phase: ZB-5msi

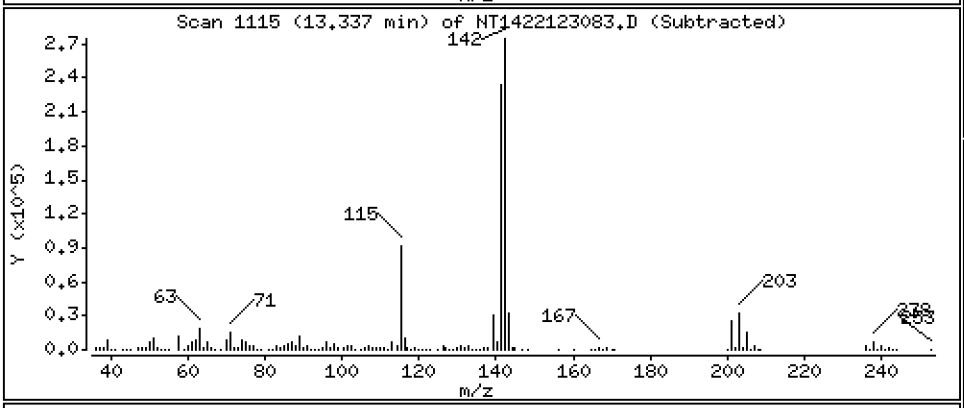
Column diameter: 0.25

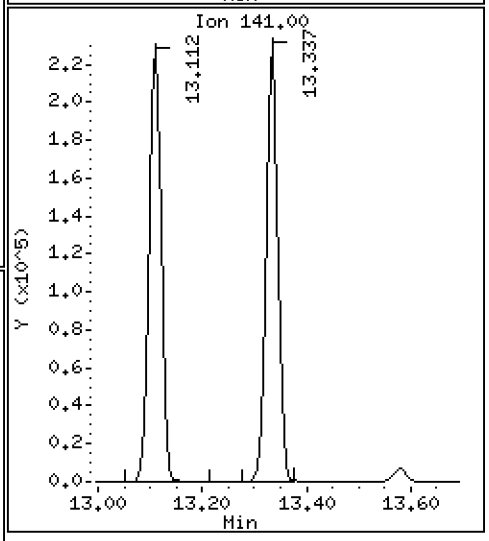
105 1-methylnaphthalene

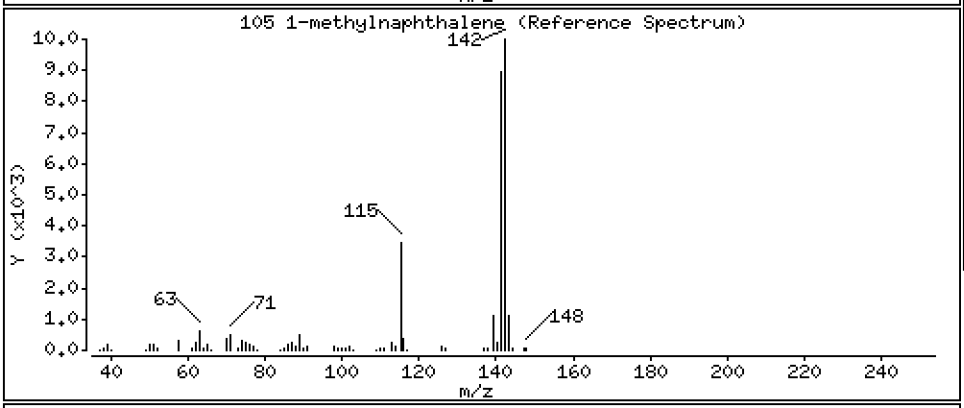
Concentration: 4.806 ug/mL

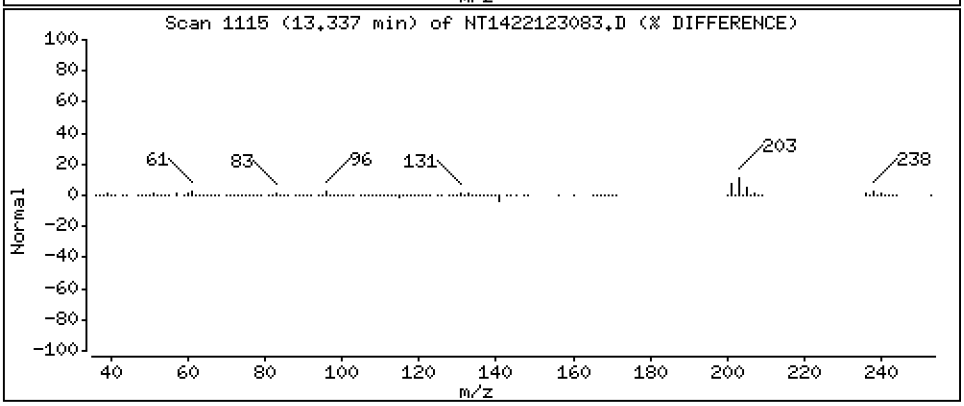












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123083.D

Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

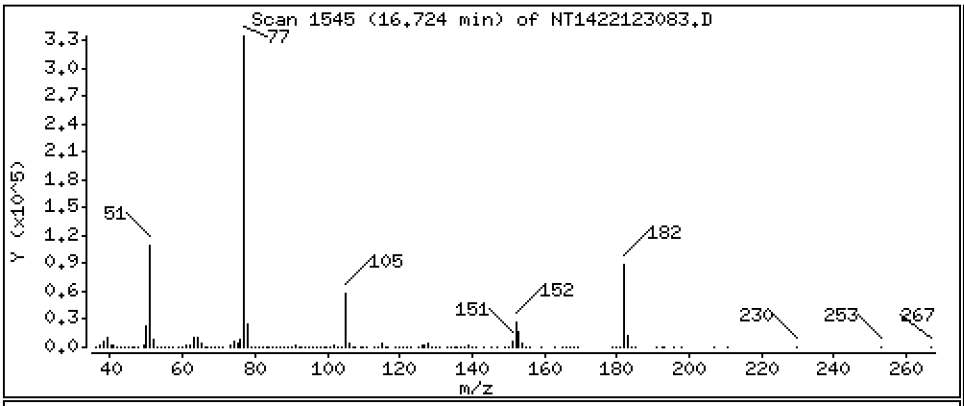
Operator: VTS

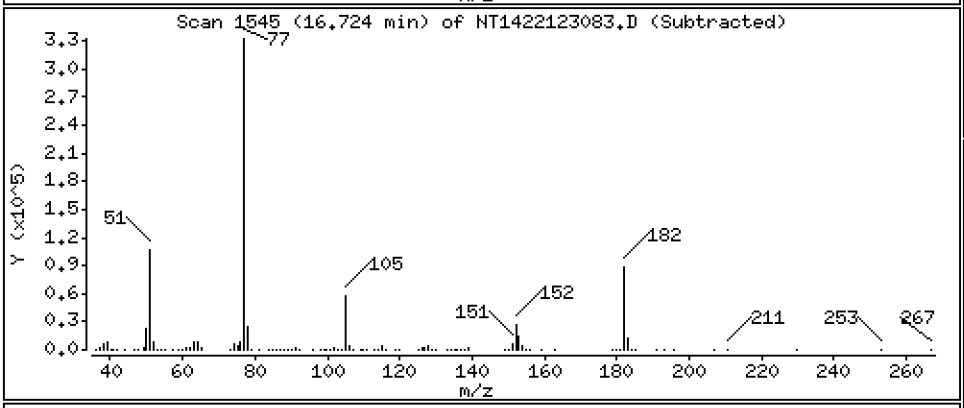
Column phase: ZB-5msi

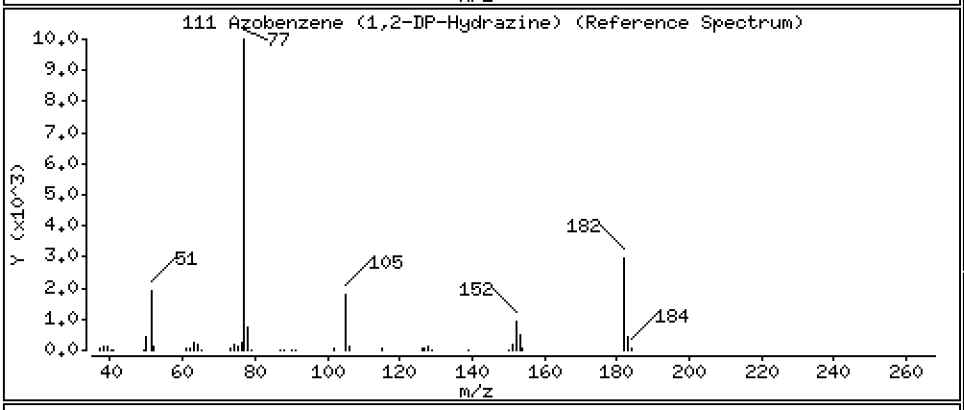
Column diameter: 0.25

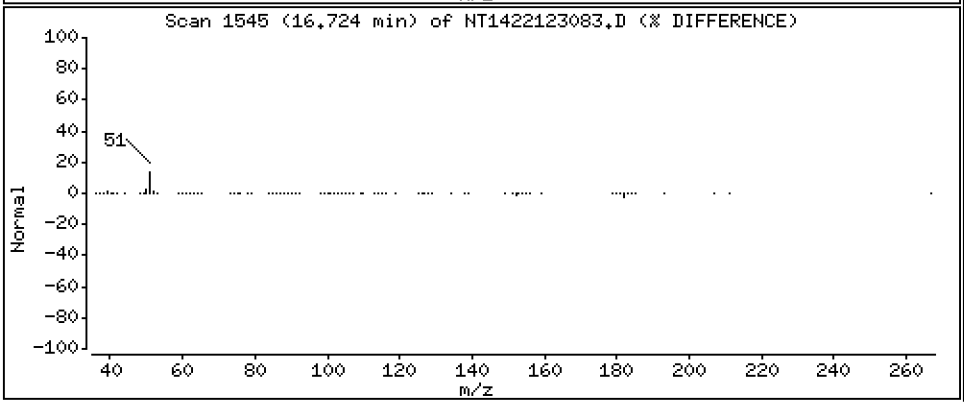
111 Azobenzene (1,2-DP-Hydrazine)

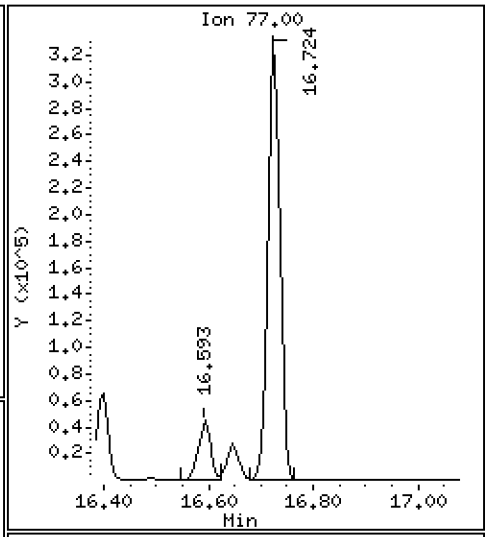
Concentration: 5.023 ug/mL

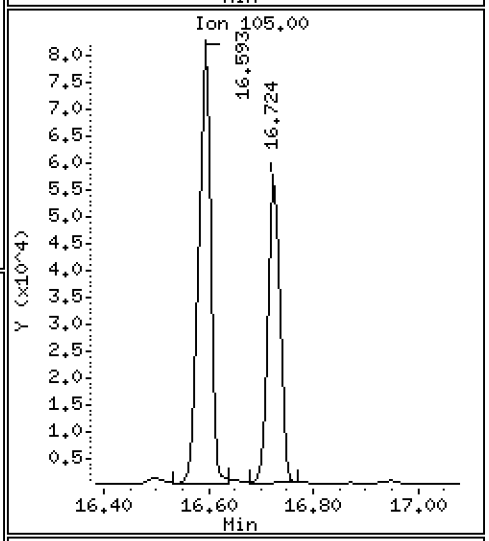


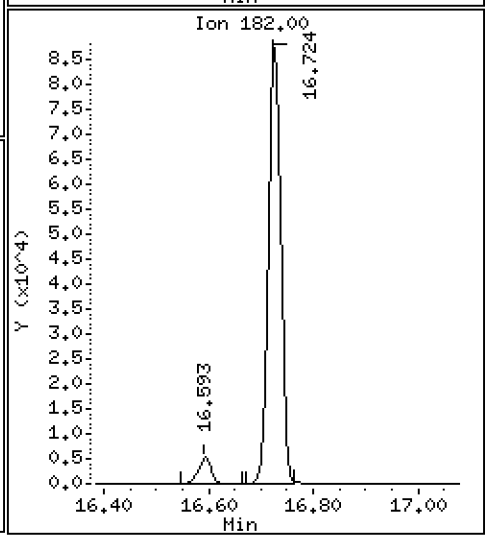












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

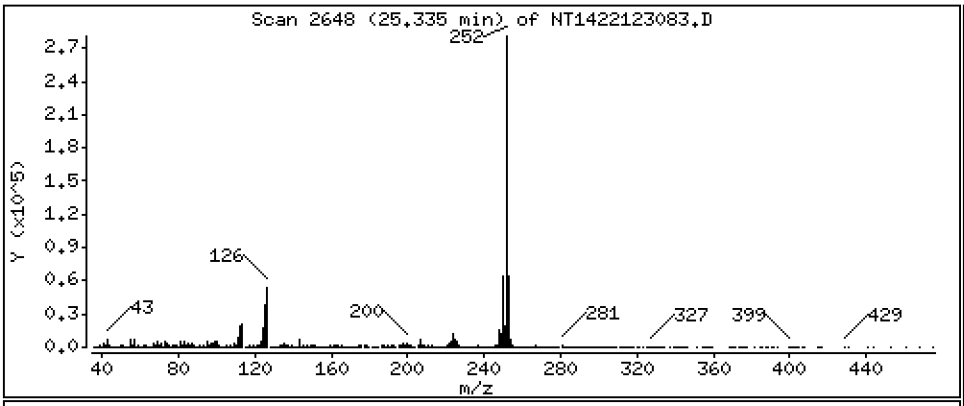
Operator: VTS

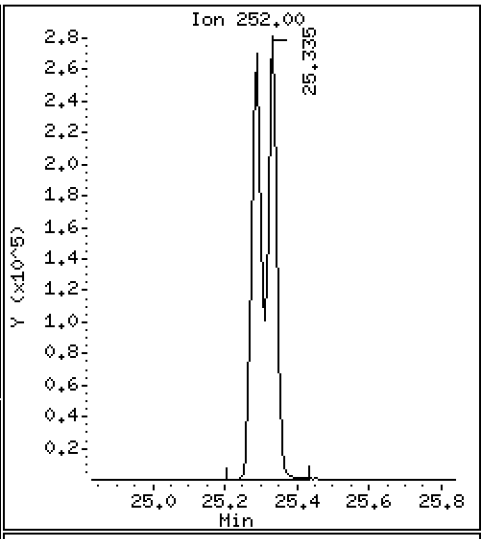
Column phase: ZB-5msi

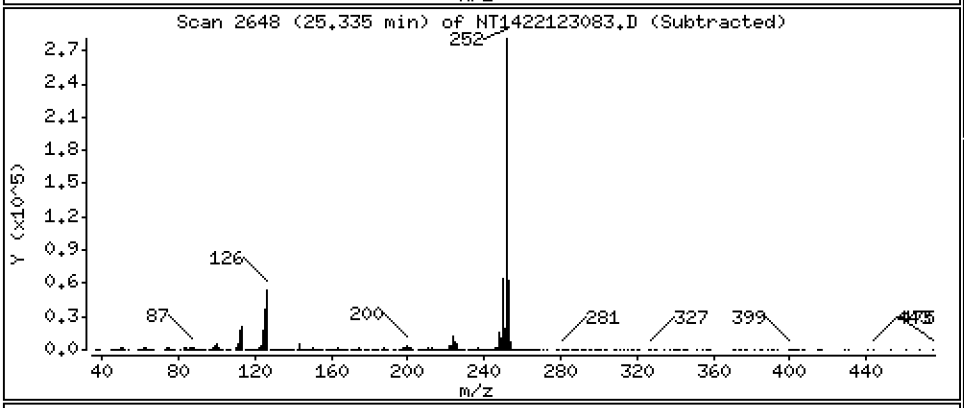
Column diameter: 0.25

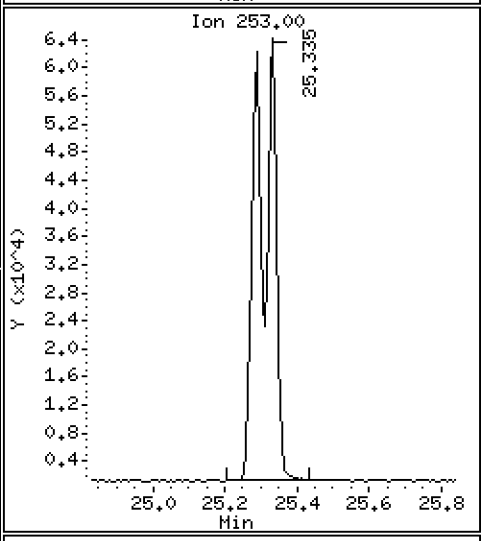
187 Total Benzofluoranthenes

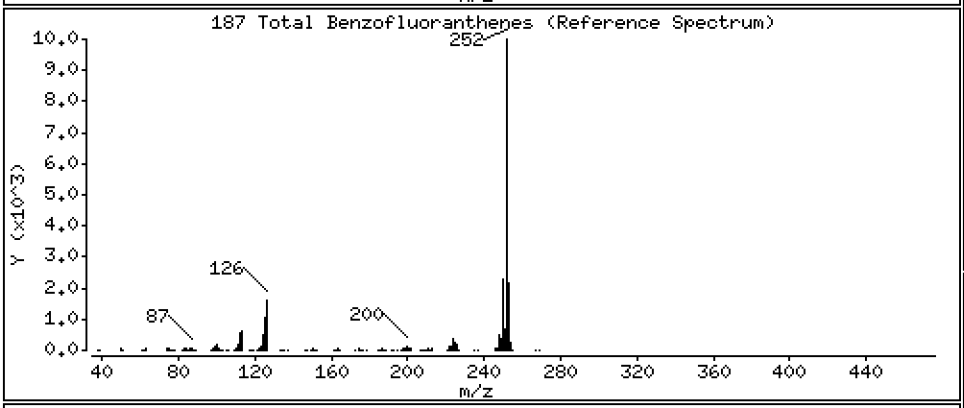
Concentration: 10.88 ug/mL

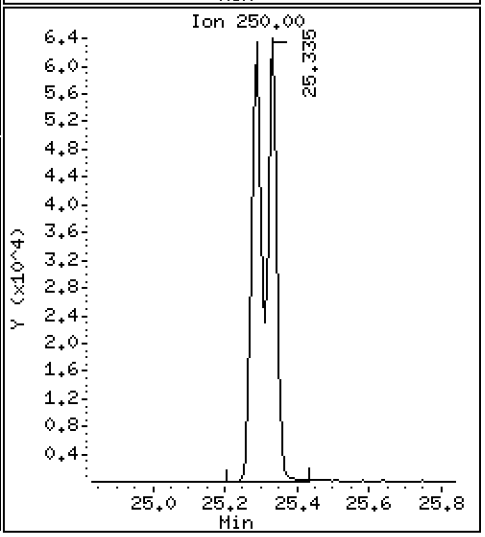


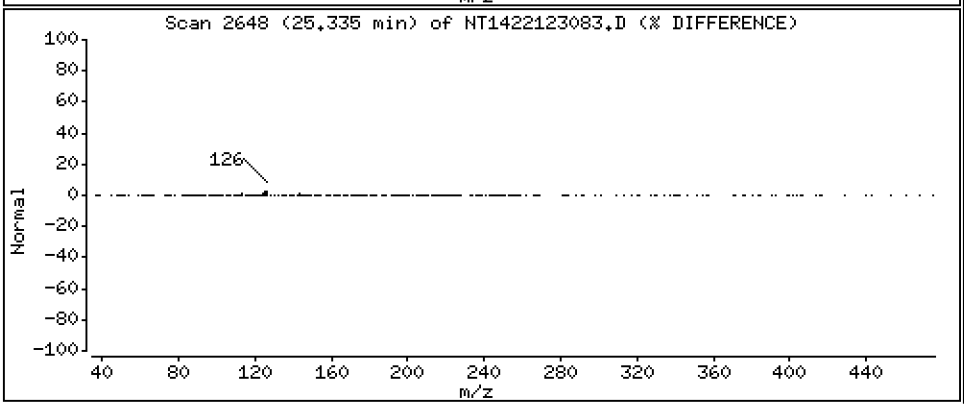












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

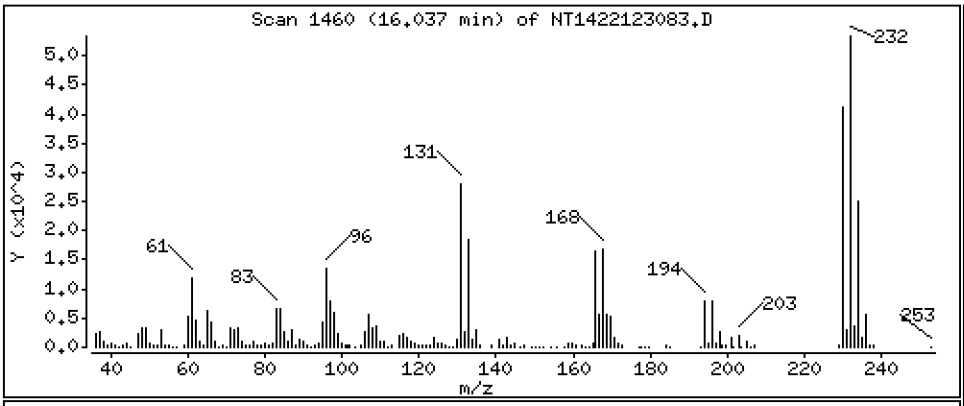
Operator: VTS

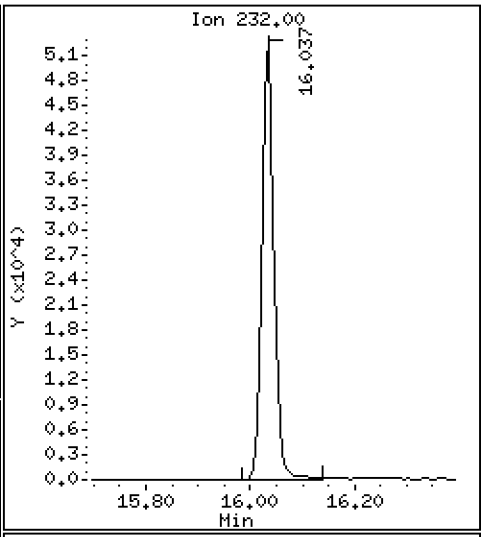
Column phase: ZB-5msi

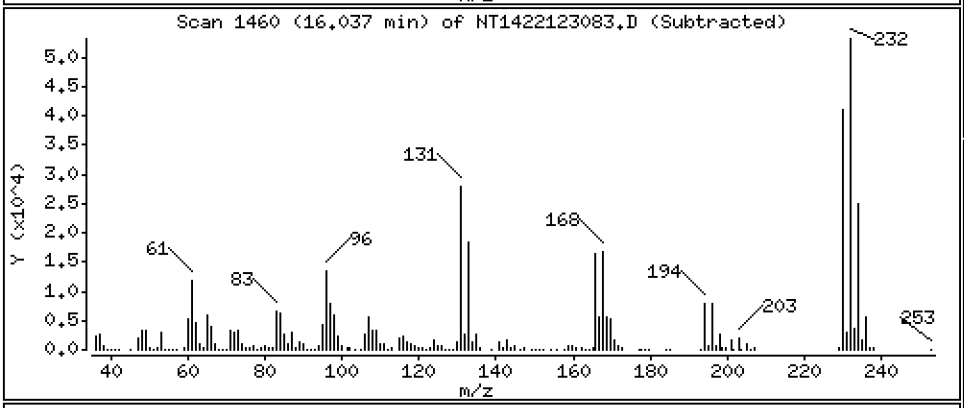
Column diameter: 0.25

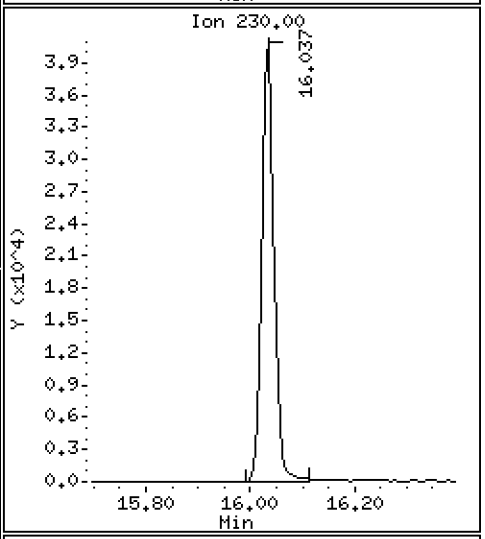
120 2,3,4,6-Tetrachlorophenol

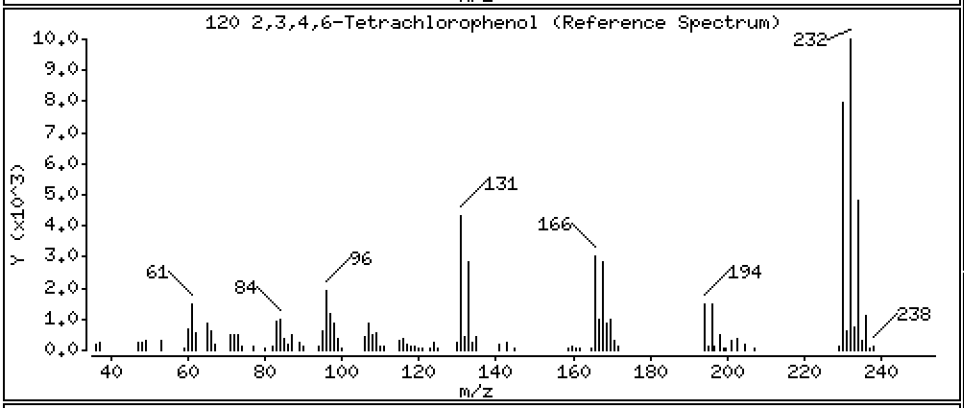
Concentration: 4.218 ug/mL

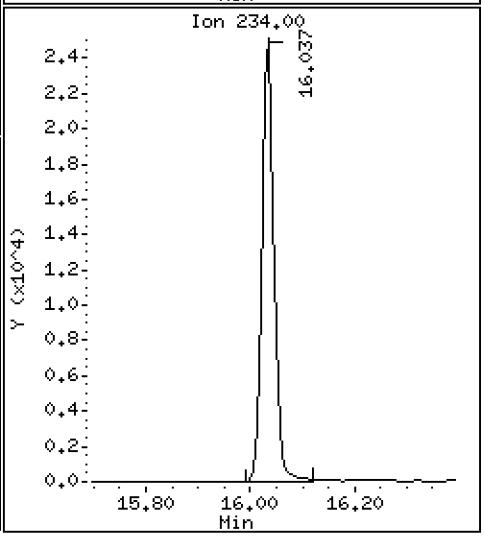


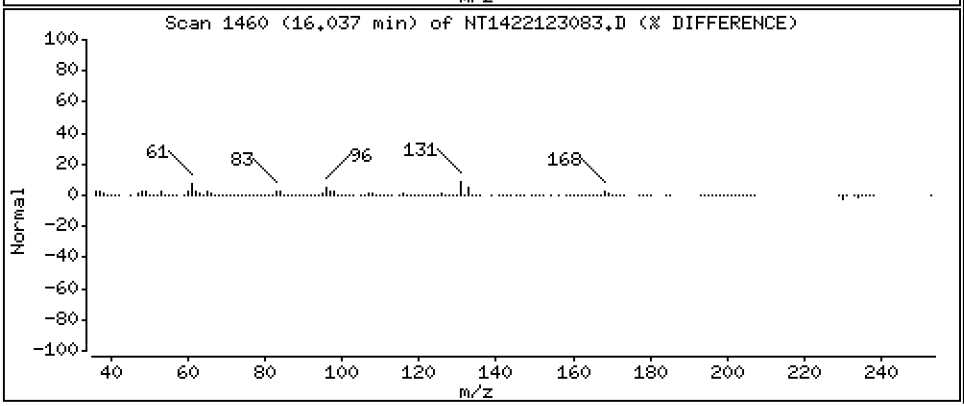












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230C.b\NT1422123083.D
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Inj Date : 01-JAN-2023 09:41 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-CCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.911	6.919	(0.755)	317954	7.41864	7.419
$	2 Phenol-d5	99	8.511	8.519	(0.929)	395412	7.46544	7.465
	3 Phenol	94	8.534	8.542	(0.932)	279794	4.64897	4.649
$	5 2-Chlorophenol-d4	132	8.797	8.797	(0.960)	330483	7.42944	7.429
	4 Bis(2-Chloroethyl)ether	93	8.696	8.696	(0.949)	189850	4.57926	4.579
	6 2-Chlorophenol	128	8.820	8.827	(0.963)	230007	4.70814	4.708
	7 1,3-Dichlorobenzene	146	9.091	9.098	(0.992)	238135	4.59690	4.597
*	8 1,4-Dichlorobenzene-d4	152	9.160	9.160	(1.000)	133778	4.00000	
	9 1,4-Dichlorobenzene	146	9.191	9.191	(1.003)	225112	4.58694	4.587
$	10 1,2-Dichlorobenzene-d4	152	9.525	9.525	(1.040)	142874	4.69933	4.699
	12 1,2-Dichlorobenzene	146	9.548	9.556	(1.042)	221006	4.59183	4.592
	11 Benzyl alcohol	108	9.432	9.440	(1.030)	130202	4.85961	4.860
	14 2,2'-oxybis(1-Chloropropane)	121	9.727	9.735	(1.062)	59927	4.29457	4.295(M)
	13 2-Methylphenol	108	9.657	9.665	(1.054)	209744	4.79607	4.796
	17 Hexachloroethane	117	10.146	10.154	(1.108)	78936	4.37321	4.373
	16 N-Nitroso-di-n-propylamine	70	9.991	9.998	(1.091)	136994	5.14232	5.142
	15 4-Methylphenol	108	9.929	9.936	(1.084)	225049	4.87814	4.878
$	18 Nitrobenzene-d5	82	10.255	10.262	(0.879)	220294	5.25640	5.256
	19 Nitrobenzene	77	10.293	10.301	(0.882)	206381	4.95846	4.958
	20 Isophorone	82	10.744	10.751	(0.921)	282856	5.33213	5.332
	21 2-Nitrophenol	139	10.930	10.937	(0.937)	142150	5.33356	5.334
	22 2,4-Dimethylphenol	107	10.984	10.992	(0.942)	411298	9.46810	9.468
	23 Bis(2-Chloroethoxy)methane	93	11.178	11.186	(0.958)	190221	4.60949	4.609
	24 Benzoic acid	105	11.209	11.209	(0.961)	451965	16.4657	16.47
	25 2,4-Dichlorophenol	162	11.387	11.395	(0.976)	373973	10.2129	10.21
	26 1,2,4-Trichlorobenzene	180	11.581	11.581	(0.993)	175964	4.44426	4.444
*	27 Naphthalene-d8	136	11.666	11.673	(1.000)	496301	4.00000	
	28 Naphthalene	128	11.704	11.712	(1.003)	552449	4.52317	4.523
	29 4-Chloroaniline	127	11.828	11.835	(1.014)	497520	9.87747	9.877
	30 Hexachlorobutadiene	225	12.075	12.075	(1.035)	92289	4.69792	4.698
	31 4-Chloro-3-methylphenol	107	12.802	12.810	(1.097)	357102	10.3342	10.33
	32 2-Methylnaphthalene	142	13.112	13.120	(1.124)	427934	4.77650	4.777
	33 Hexachlorocyclopentadiene	237	13.576	13.584	(0.887)	73823	3.59434	3.594

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.739	13.739	(0.898)	235219	10.3721	10.37
	35 2,4,5-Trichlorophenol	196	13.816	13.816	(0.903)	259750	9.92421	9.924
$	36 2-Fluorobiphenyl	172	13.894	13.901	(0.908)	425968	4.66291	4.663
	37 2-Chloronaphthalene	162	14.110	14.118	(0.922)	355975	4.58053	4.581
	38 2-Nitroaniline	65	14.366	14.373	(0.939)	230219	11.2677	11.27
	39 Dimethylphthalate	163	14.791	14.799	(0.967)	367075	4.79061	4.791
	40 Acenaphthylene	152	14.985	14.993	(0.979)	597558	5.04276	5.043
	41 2,6-Dinitrotoluene	165	14.931	14.938	(0.976)	175372	10.1416	10.14
*	42 Acenaphthene-d10	164	15.302	15.310	(1.000)	271703	4.00000	
	43 3-Nitroaniline	138	15.225	15.225	(0.995)	203497	9.68226	9.682
	44 Acenaphthene	153	15.372	15.371	(1.005)	339618	4.62086	4.621
	45 2,4-Dinitrophenol	184	15.433	15.441	(1.009)	201396	13.3028	13.30
	46 Dibenzofuran	168	15.696	15.704	(1.026)	497802	4.51660	4.517
	47 4-Nitrophenol	109	15.549	15.557	(1.016)	94505	9.20145	9.201
	48 2,4-Dinitrotoluene	165	15.750	15.750	(1.029)	234208	9.87157	9.872
	50 Diethylphthalate	149	16.261	16.268	(1.063)	559670	5.37377	5.374
	49 Fluorene	166	16.415	16.423	(1.073)	600716	5.12342	5.123
	51 4-Chlorophenyl-phenylether	204	16.400	16.407	(1.072)	282388	4.91943	4.919
	52 4-Nitroaniline	138	16.500	16.500	(1.078)	232544	9.00330	9.003
	53 4,6-Dinitro-2-methylphenol	198	16.592	16.600	(0.904)	303918	16.4565	16.46
	54 N-Nitrosodiphenylamine	169	16.646	16.654	(0.907)	349395	4.79973	4.800
$	55 2,4,6-Tribromophenol	330	16.947	16.955	(1.108)	88986	6.74321	6.743
	56 4-Bromophenyl-phenylether	248	17.410	17.410	(0.949)	130215	4.72400	4.724
	57 Hexachlorobenzene	284	17.727	17.734	(0.966)	137713	4.55263	4.553
	58 Pentachlorophenol	266	18.083	18.090	(0.985)	82791	6.13040	6.130
*	59 Phenanthrene-d10	188	18.353	18.361	(1.000)	424221	4.00000	
	60 Phenanthrene	178	18.400	18.408	(1.003)	498567	4.50755	4.508
	61 Anthracene	178	18.493	18.500	(1.008)	518262	4.90821	4.908
	62 Carbazole	167	18.818	18.825	(1.025)	484405	4.74546	4.745
	63 Di-n-butylphthalate	149	19.607	19.614	(1.068)	646156	5.36383	5.364
	64 Fluoranthene	202	20.783	20.791	(0.888)	579163	4.61703	4.617
	65 Pyrene	202	21.208	21.216	(0.906)	596174	4.52023	4.520
$	66 Terphenyl-d14	244	21.487	21.495	(0.918)	400031	4.27757	4.278
	67 Butylbenzylphthalate	149	22.401	22.408	(0.957)	275908	5.43982	5.440
	68 Benzo(a)anthracene	228	23.368	23.376	(0.999)	568721	4.81897	4.819
*	69 Chrysene-d12	240	23.399	23.399	(1.000)	389585	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.314	23.322	(0.996)	609561	16.8723	16.87
	71 Chrysene	228	23.438	23.446	(1.002)	526209	4.72033	4.720
	72 bis(2-Ethylhexyl)phthalate	149	23.423	23.430	(0.959)	372110	4.87023	4.870
*	134 Di-n-octylphthalate-d4	153	24.414	24.421	(1.000)	687974	4.00000	
	73 Di-n-octylphthalate	149	24.429	24.429	(1.001)	709063	4.29363	4.294
	74 Benzo(b)fluoranthene	252	25.288	25.296	(0.970)	521340	5.55264	5.553
	75 Benzo(k)fluoranthene	252	25.335	25.335	(0.971)	511175	5.34917	5.349
	76 Benzo(a)pyrene	252	25.962	25.970	(0.996)	391315	5.01357	5.014
*	77 Perylene-d12	264	26.078	26.086	(1.000)	298756	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	28.838	28.838	(1.106)	228030	2.57003	2.570
	79 Dibenzo(a,h)anthracene	278	28.846	28.853	(1.106)	207084	2.74656	2.747
	80 Benzo(g,h,i)perylene	276	29.646	29.653	(1.137)	154703	2.08134	2.081
	90 N-Nitrosodimethylamine	74	4.718	4.718	(0.515)	284104	9.62507	9.625
	91 Aniline	93	8.604	8.611	(0.939)	555688	9.48271	9.483
	93 Benzidine	184	21.007	21.015	(0.898)	288297	5.89835	5.898
	103 Pyridine	79	4.741	4.741	(0.518)	431484	4.60040	4.600
	105 1-methylnaphthalene	142	13.336	13.344	(1.143)	413739	4.80634	4.806
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.724	16.731	(1.093)	506820	5.02307	5.023

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.335	25.335	(0.971)	987382	10.8776	10.88
120 2,3,4,6-Tetrachlorophenol	232	16.036	16.044	(1.048)	83545	4.21762	4.218

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123083.D
Lab Smp Id: SKL0355-CCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Misc Info:

Calibration Date: 31-DEC-2022
Calibration Time: 23:30
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138755	69378	277510	133778	-3.59
27 Naphthalene-d8	501723	250862	1003446	496301	-1.08
42 Acenaphthene-d10	275234	137617	550468	271703	-1.28
59 Phenanthrene-d10	440085	220043	880170	424221	-3.60
69 Chrysene-d12	384795	192398	769590	389585	1.24
134 Di-n-octylphthala	674530	337265	1349060	687974	1.99
77 Perylene-d12	336665	168333	673330	298756	-11.26

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	-0.07
42 Acenaphthene-d10	15.31	14.81	15.81	15.30	-0.05
59 Phenanthrene-d10	18.36	17.86	18.86	18.35	-0.04
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.41	-0.03
77 Perylene-d12	26.09	25.59	26.59	26.08	-0.03

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

REVIEW SUMMARY FOR FILE - NT1422123083.D

Lab ID: SKL0355-CCV1
nt14.i, 20221230C.b\ABN.m,   01-JAN-2023 09:41

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1422123066.D

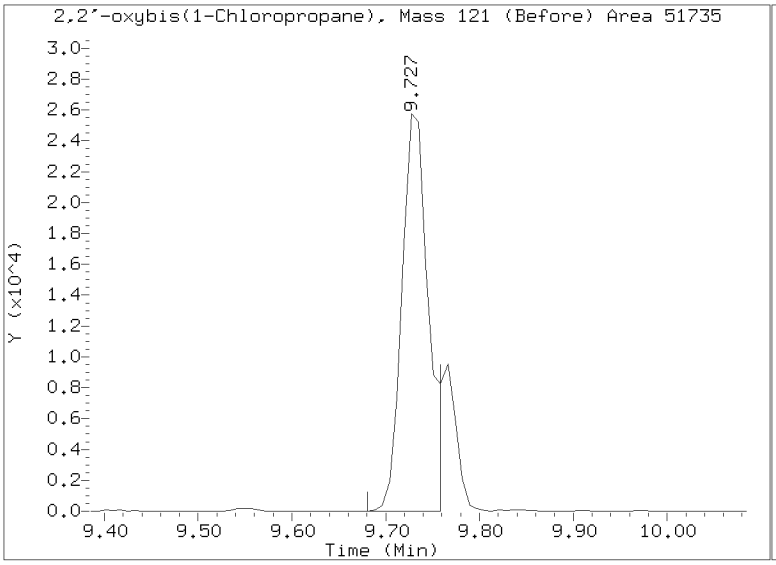
On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

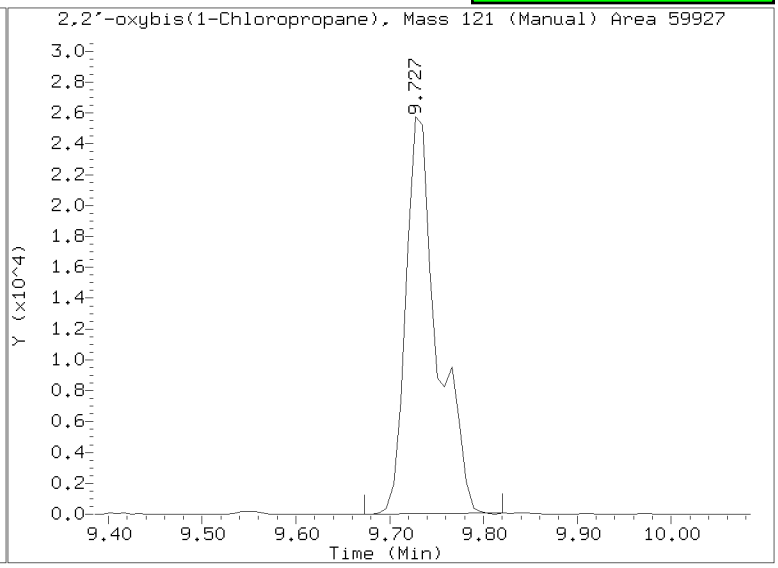
* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230C.b/NT1422123083.D
Injection Date: 01-JAN-2023 09:41
Lab ID:SKL0355-CCV1 Client ID:
Report Date: 01/04/2023 14:27

REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM





Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION CONTINUING CALIBRATION CHECK

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123051.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/31/22
Lab Sample ID:	SKL0355-LCV1	Injection Time:	14:29
Sequence Name:	ABN 0.2		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol	A	0.20000	0.2	1.7995200	2.0643140		14.7	+/-50
bis(2-chloroethyl) ether	A	0.20000	0.2	1.2396270	1.4816530		19.5	+/-50
2-Chlorophenol	A	0.20000	0.2	1.4607190	1.7203190		17.8	+/-50
1,3-Dichlorobenzene	A	0.20000	0.2	1.5489360	1.9026260		22.8	+/-50
1,4-Dichlorobenzene	A	0.20000	0.2	1.4674070	1.8246170		24.3	+/-50
1,2-Dichlorobenzene	A	0.20000	0.2	1.4391100	1.7502170		21.6	+/-50
Benzyl Alcohol	A	0.20000	0.2	0.8011083	0.6500168		-18.9	+/-50
2,2'-Oxybis(1-chloropropane)	A	0.20000	0.2	0.4172325	0.4665069		11.8	+/-50
2-Methylphenol	A	0.20000	0.2	1.3076140	1.5306240		17.1	+/-50
Hexachloroethane	A	0.20000	0.2	0.5396966	0.4735517		-12.3	+/-50
N-Nitroso-di-n-Propylamine	A	0.20000	0.2	0.7965591	0.8792323		10.4	+/-50
4-Methylphenol	A	0.20000	0.2	1.3794240	1.4627520		6.0	+/-50
Nitrobenzene	A	0.20000	0.2	0.3354574	0.3780682		12.7	+/-50
Isophorone	A	0.20000	0.2	0.4275424	0.4201436		-1.7	+/-50
2-Nitrophenol	A	0.20000	0.2	0.2064997	0.2077004		1.4	+/-50
2,4-Dimethylphenol	A	0.40000	0.5	0.3501131	0.3988007		13.9	+/-50
Bis(2-Chloroethoxy)methane	A	0.20000	0.2	0.3325989	0.3920620		17.9	+/-50
2,4-Dichlorophenol	A	0.40000	0.4	0.2951237	0.3048823		3.3	+/-50
1,2,4-Trichlorobenzene	A	0.20000	0.2	0.3191088	0.3864269		21.1	+/-50
Naphthalene	A	0.20000	0.2	0.9843833	1.1700810		18.9	+/-50
Benzoic acid	A	0.80000	0.2	0.1508906	0.0465600		-78.2	+/-50
4-Chloroaniline	A	0.40000	0.4	0.4059568	0.4118553		1.5	+/-50
Hexachlorobutadiene	A	0.20000	0.2	0.1583286	0.1760029		11.2	+/-50
4-Chloro-3-Methylphenol	A	0.40000	0.4	0.2785027	0.2791957		0.3	+/-50
2-Methylnaphthalene	A	0.20000	0.2	0.7220739	0.8053026		11.5	+/-50
Hexachlorocyclopentadiene	A	0.40000	0.02	0.3023695	0.0162513		-94.6	+/-50
2,4,6-Trichlorophenol	A	0.40000	0.4	0.3338641	0.3126991		-6.3	+/-50
2,4,5-Trichlorophenol	A	0.40000	0.4	0.3853234	0.4157471		7.9	+/-50
2-Chloronaphthalene	A	0.20000	0.2	1.1441150	1.3567070		18.6	+/-50
2-Nitroaniline	A	0.40000	0.4	0.3007956	0.2987101		-0.7	+/-50
Acenaphthylene	A	0.20000	0.2	1.7445240	1.9676080		12.8	+/-50
Dimethylphthalate	A	0.20000	0.2	1.1280520	1.2584600		11.6	+/-50
2,6-Dinitrotoluene	A	0.40000	0.4	0.2545771	0.2237324		-12.1	+/-50
Acenaphthene	A	0.20000	0.2	1.0820160	1.2721260		17.6	+/-50

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION CONTINUING CALIBRATION CHECK

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123051.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/31/22
Lab Sample ID:	SKL0355-LCV1	Injection Time:	14:29
Sequence Name:	ABN 0.2		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
3-Nitroaniline	A	0.40000	0.3	0.3094189	0.2607134		-15.7	+/-50
2,4-Dinitrophenol	A	0.80000	0.005	0.1831718	0.0014312		-99.3	+/-50
Dibenzofuran	A	0.20000	0.2	1.6225950	1.9508950		20.2	+/-50
4-Nitrophenol	A	0.40000	0.2	0.1384031	0.0879048		-40.6	+/-50
2,4-Dinitrotoluene	A	0.40000	0.3	0.3492859	0.2636682		-24.5	+/-50
Fluorene	A	0.20000	0.2	1.7261350	1.9622530		13.7	+/-50
4-Chlorophenylphenyl ether	A	0.20000	0.2	0.8450792	0.9033324		6.9	+/-50
Diethyl phthalate	A	0.20000	0.2	1.5332690	1.7458150		13.9	+/-50
4-Nitroaniline	A	0.40000	0.3	0.3413732	0.2911846		-21.8	+/-50
4,6-Dinitro-2-methylphenol	A	0.80000	0.2	0.1530278	0.0423797		-74.8	+/-50
N-Nitrosodiphenylamine	A	0.20000	0.2	0.6863845	0.8312522		21.1	+/-50
4-Bromophenyl phenyl ether	A	0.20000	0.2	0.2599074	0.2955359		13.7	+/-50
Hexachlorobenzene	A	0.20000	0.2	0.2852204	0.3266661		14.5	+/-50
Pentachlorophenol	A	0.40000	0.08	0.1128364	0.0236786		-80.8	+/-50
Phenanthrene	A	0.20000	0.2	1.0429190	1.2592500		20.7	+/-50
Anthracene	A	0.20000	0.2	0.9956202	1.0865090		9.1	+/-50
Carbazole	A	0.20000	0.2	0.9624945	1.0462870		8.7	+/-50
Di-n-Butylphthalate	A	0.20000	0.2	1.0394700	1.0352390		-4.7	+/-50
Fluoranthene	A	0.20000	0.2	1.2879410	1.4861000		15.4	+/-50
Pyrene	A	0.20000	0.2	1.3541610	1.4975920		10.6	+/-50
Butylbenzylphthalate	A	0.20000	0.2	0.4650792	0.5311603		4.0	+/-50
Benzo(a)anthracene	A	0.20000	0.2	1.2117210	1.4633910		20.8	+/-50
3,3'-Dichlorobenzidine	A	0.60000	0.7	0.3709370	0.4304254		16.0	+/-50
Chrysene	A	0.20000	0.2	1.1445730	1.3813490		20.7	+/-50
bis(2-Ethylhexyl)phthalate	A	0.20000	0.2	0.4442323	0.4854060		9.3	+/-50
Di-n-Octylphthalate	A	0.20000	0.2	0.9601702	1.1615200		21.0	+/-50
Benzofluoranthenes, Total	A	0.40000	0.5	1.2153330	1.5457340		27.2	+/-50
Benzo(a)pyrene	A	0.20000	0.2	1.0450150	1.2622770		20.8	+/-50
Indeno(1,2,3-cd)pyrene	A	0.20000	0.1	1.1879490	0.8474652		-28.7	+/-50
Dibenzo(a,h)anthracene	A	0.20000	0.1	1.0094890	0.7555898		-25.2	+/-50
Benzo(g,h,i)perylene	A	0.20000	0.1	0.9951726	0.6117218		-38.5	+/-50
1-Methylnaphthalene	A	0.20000	0.2	0.6937882	0.8037999		15.9	+/-50
2-Fluorophenol	A	0.30000	0.344	1.2814900	1.4710570		14.8	+/-50
Phenol-d5	A	0.30000	0.307	1.5836890	1.6214620		2.4	+/-50

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123051.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/31/22
Lab Sample ID:	SKL0355-LCV1	Injection Time:	14:29
Sequence Name:	ABN 0.2		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2-Chlorophenol-d4	A	0.30000	0.332	1.3300510	1.4726610		10.7	+/-50
1,2-Dichlorobenzene-d4	A	0.20000	0.241	0.9090592	1.0955610		20.5	+/-50
Nitrobenzene-d5	A	0.20000	0.214	0.3377760	0.3615386		7.0	+/-50
2-Fluorobiphenyl	A	0.20000	0.223	1.3448860	1.5008450		11.6	+/-50
2,4,6-Tribromophenol	A	0.30000	0.212	0.1844845	0.1322265		-29.4	+/-50
p-Terphenyl-d14	A	0.20000	0.218	0.9601842	1.0445280		8.8	+/-50

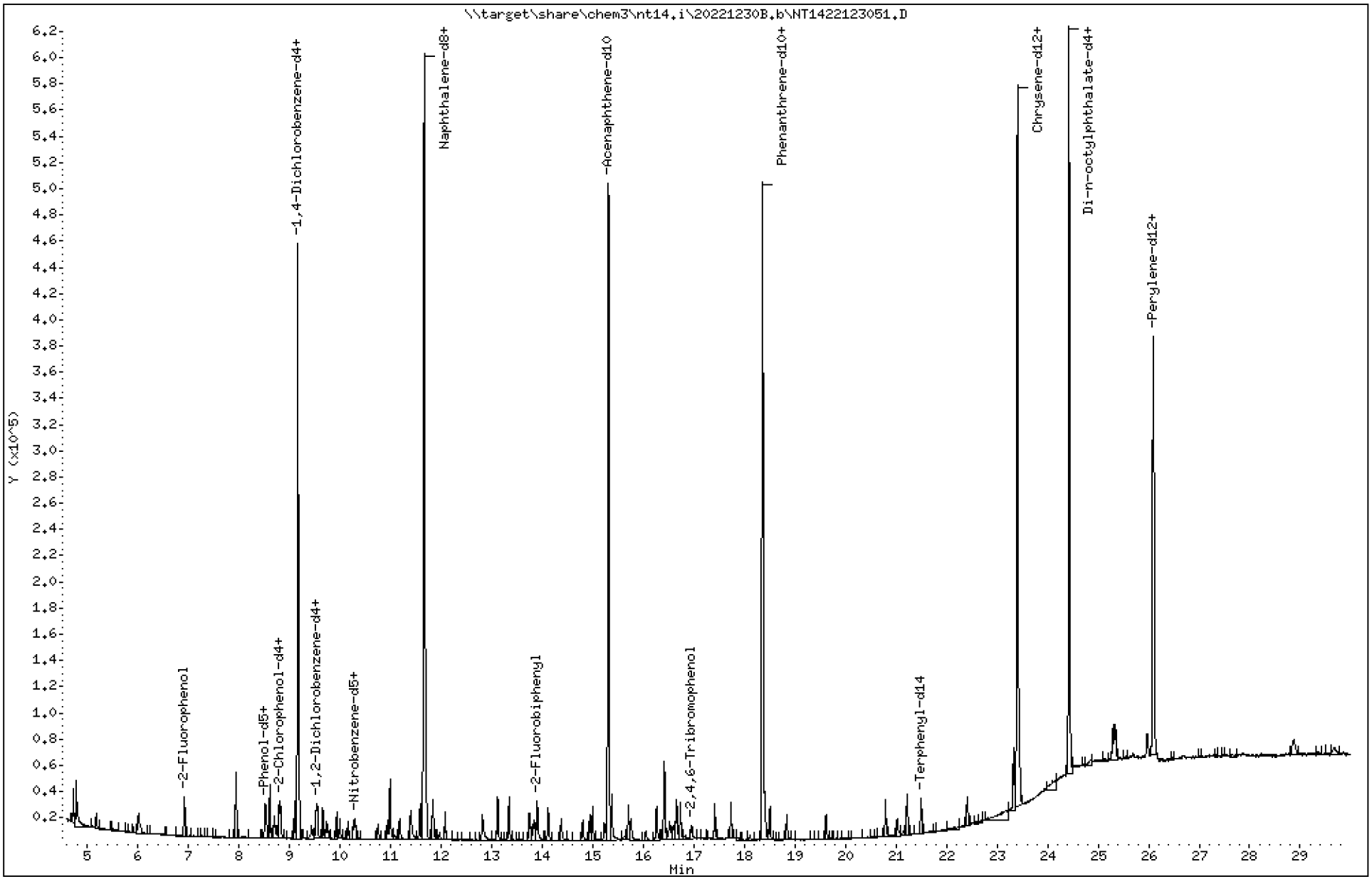
* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D
Date : 31-DEC-2022 14:29
Client ID:
Sample Info: SKL0355-LCV1

Instrument: nt14.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

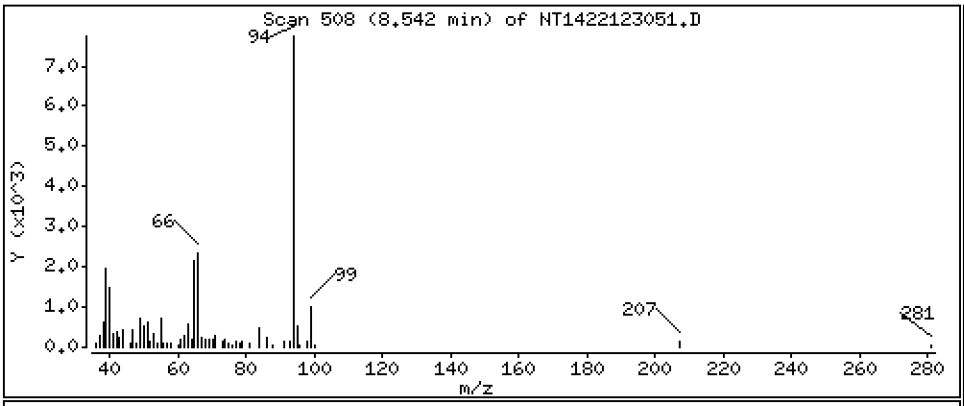
Operator: VTS

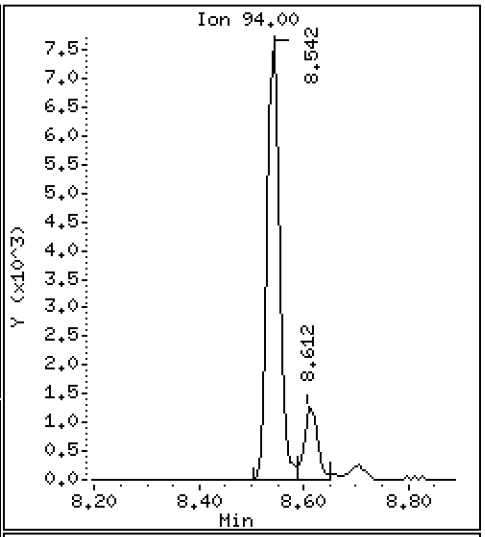
Column phase: ZB-5msi

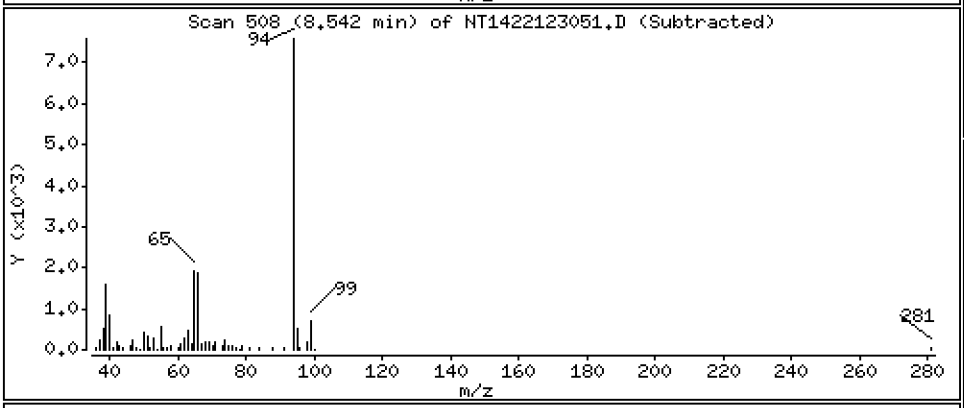
Column diameter: 0.25

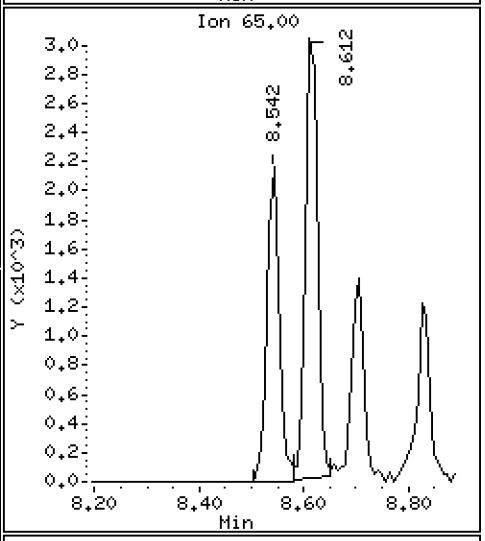
3 Phenol

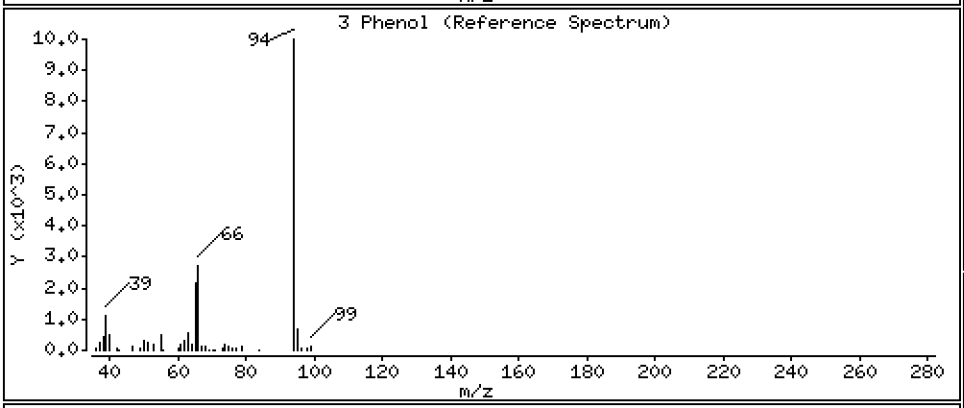
Concentration: 0.2294 ug/mL

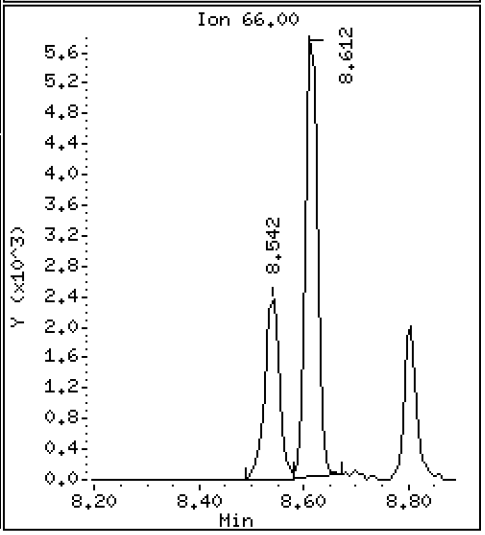


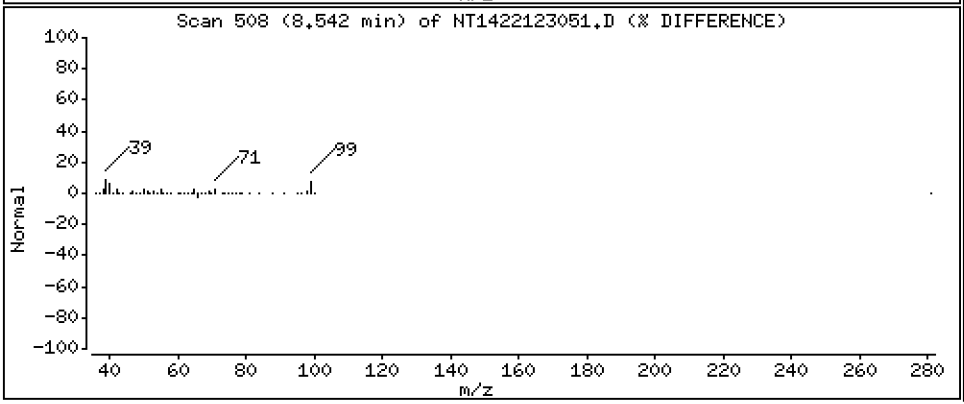












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

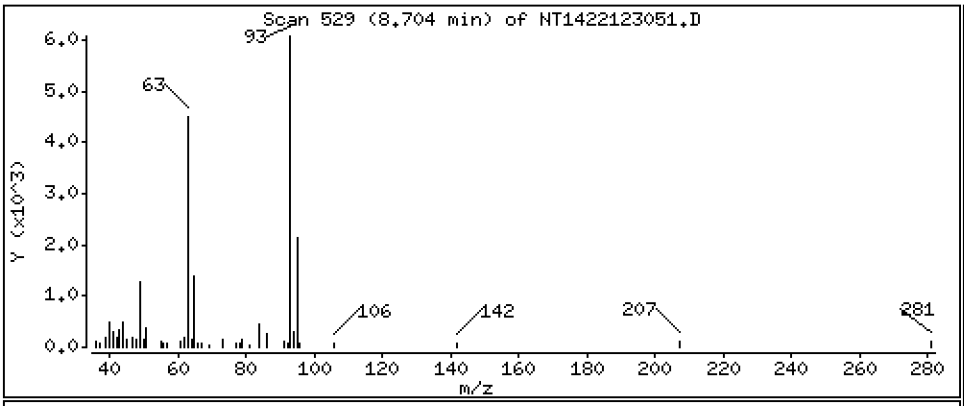
Operator: VTS

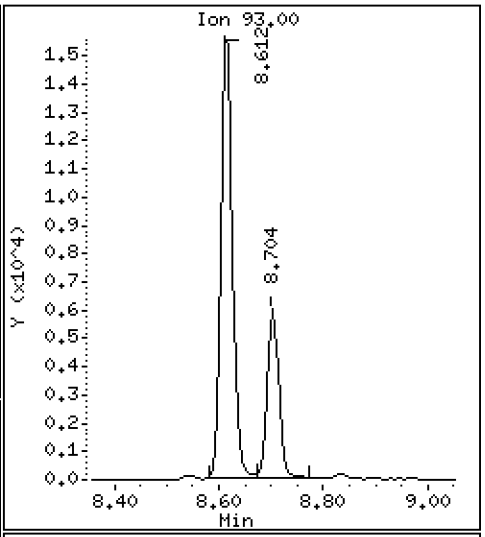
Column phase: ZB-5msi

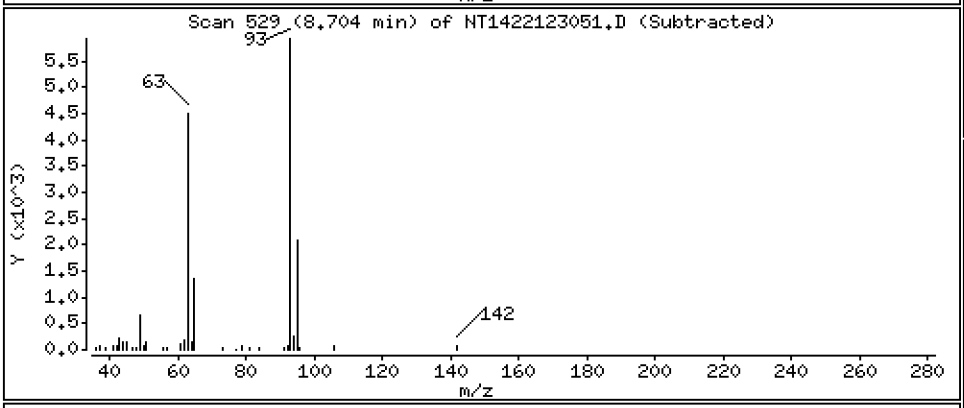
Column diameter: 0.25

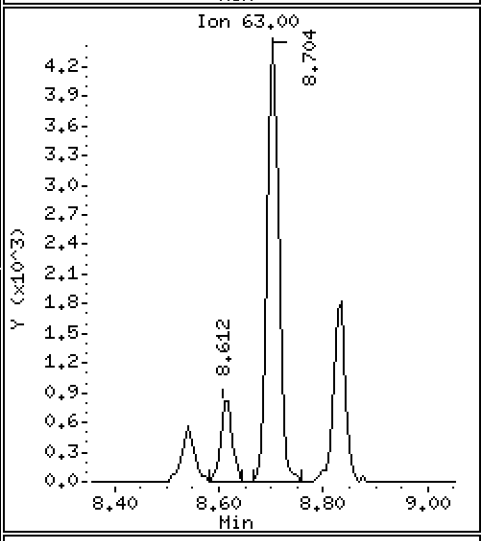
4 Bis(2-Chloroethyl)ether

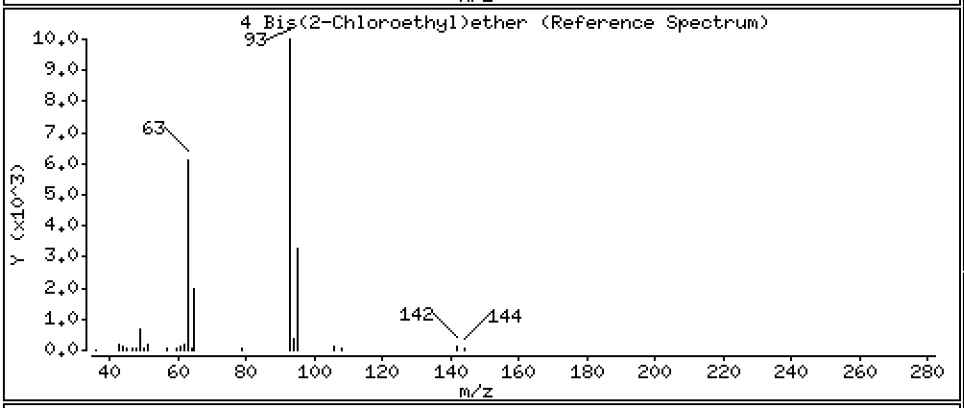
Concentration: 0.2390 ug/mL

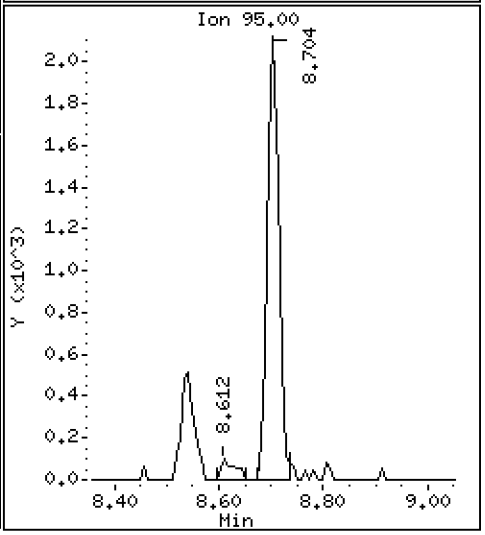


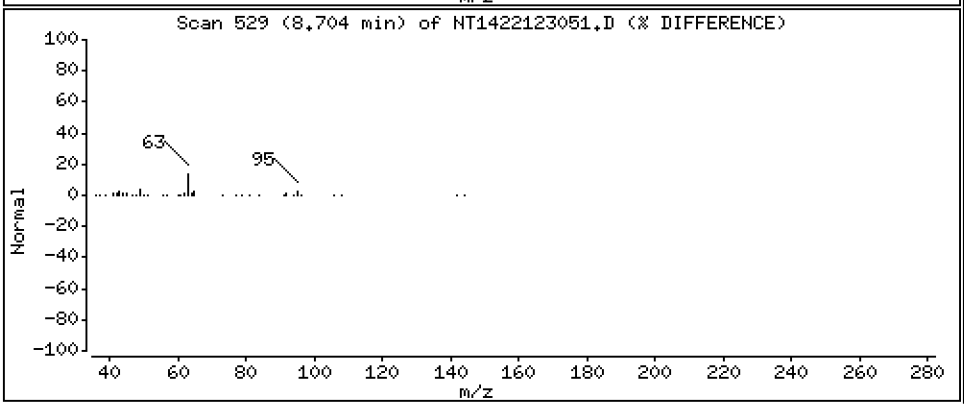












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

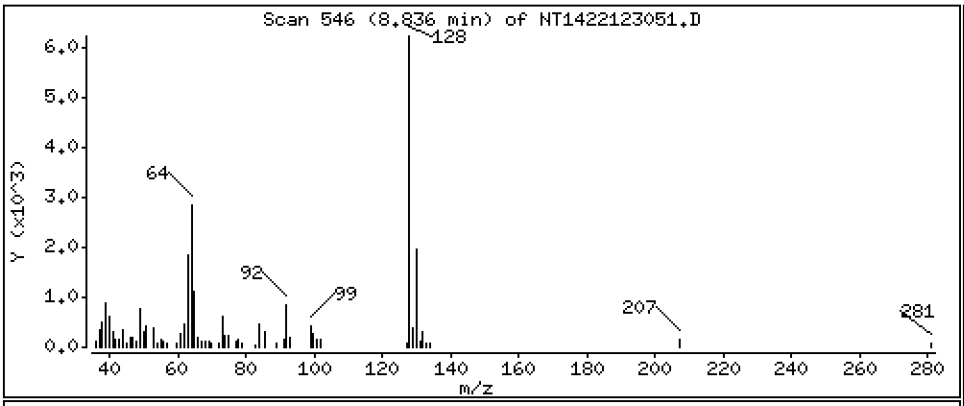
Operator: VTS

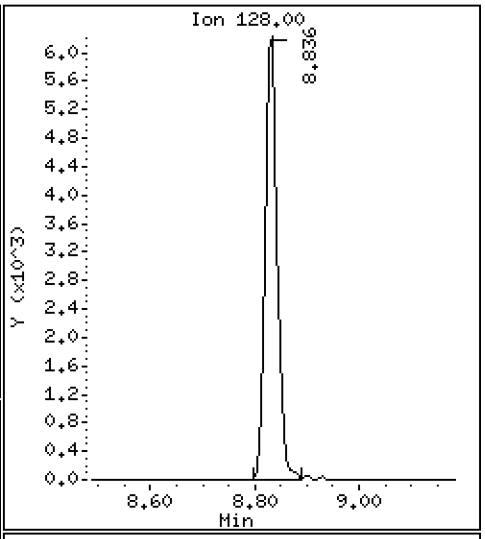
Column phase: ZB-5msi

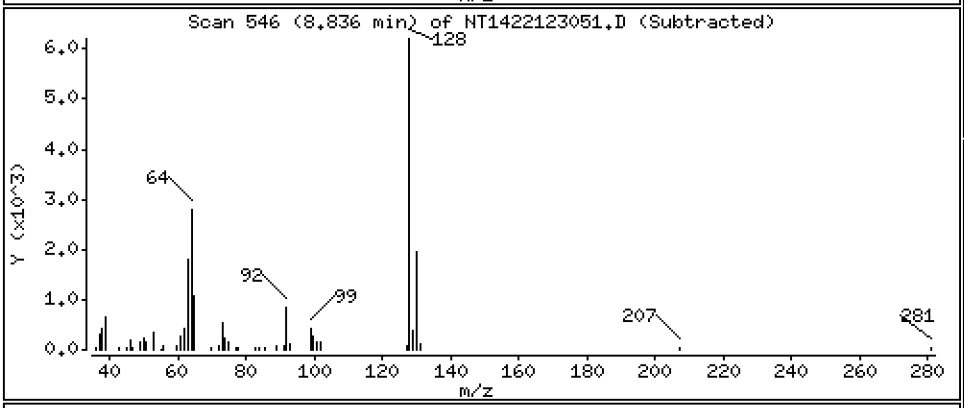
Column diameter: 0.25

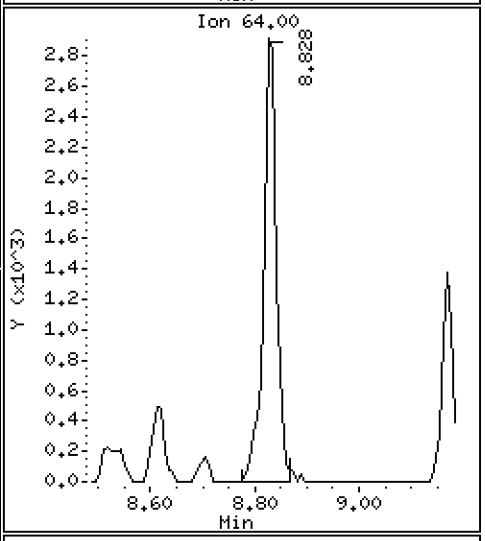
6 2-Chlorophenol

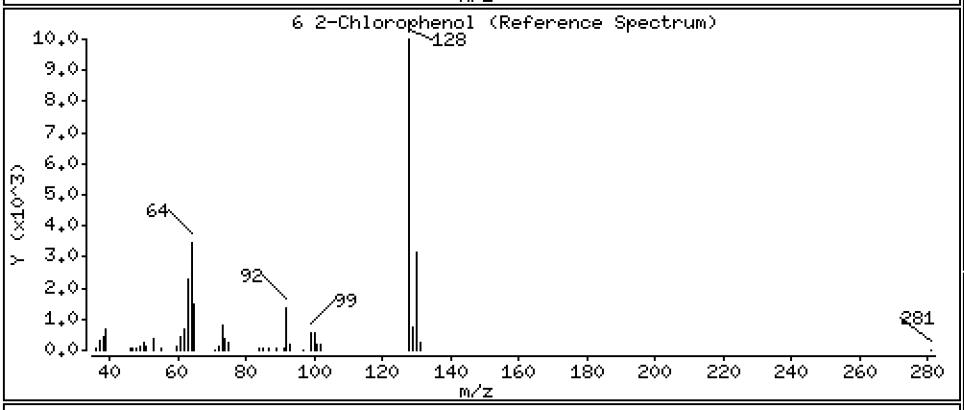
Concentration: 0.2355 ug/mL

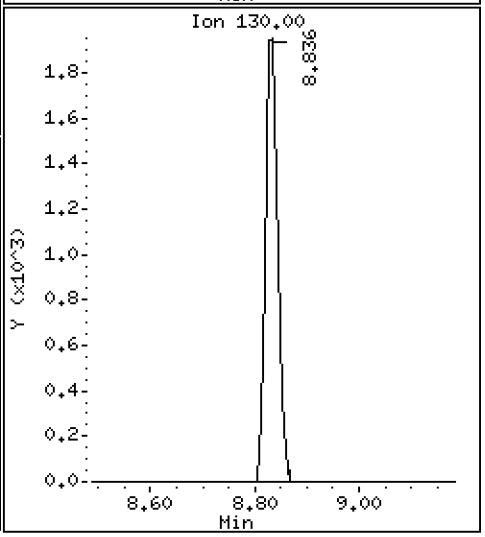


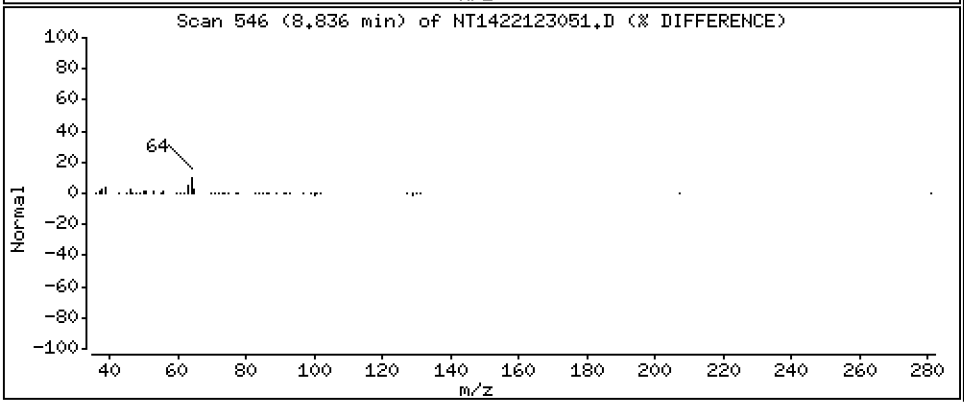












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

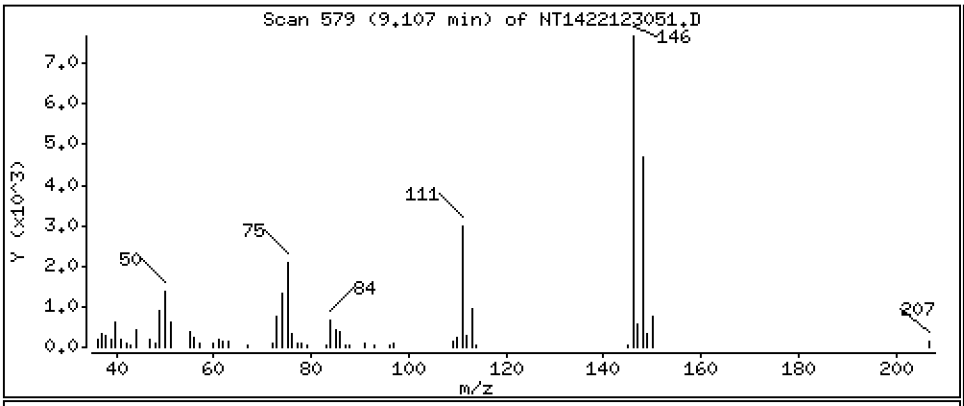
Operator: VTS

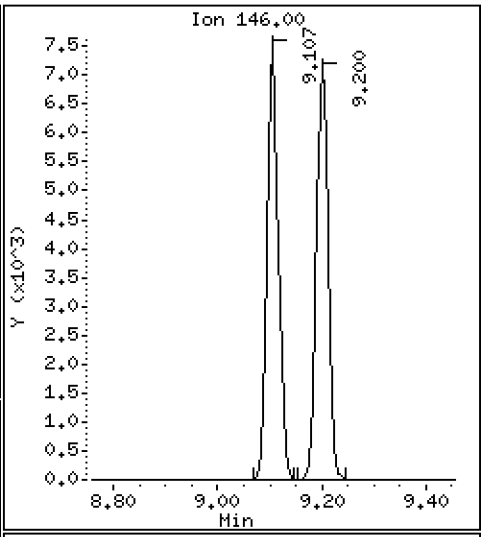
Column phase: ZB-5msi

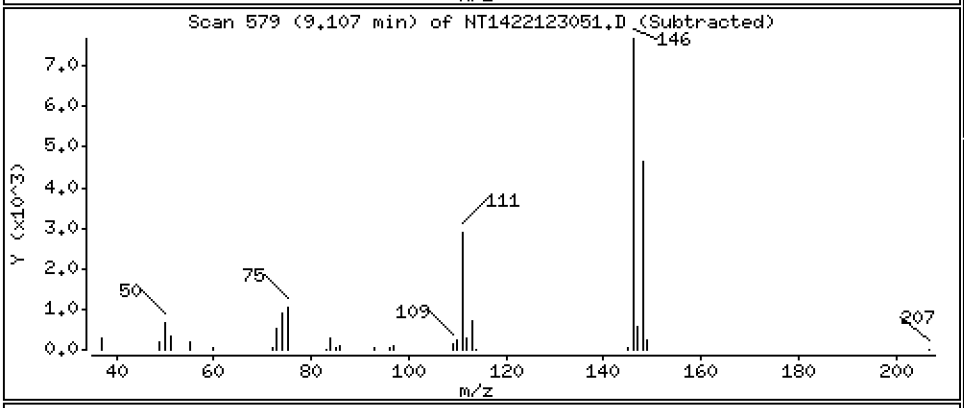
Column diameter: 0.25

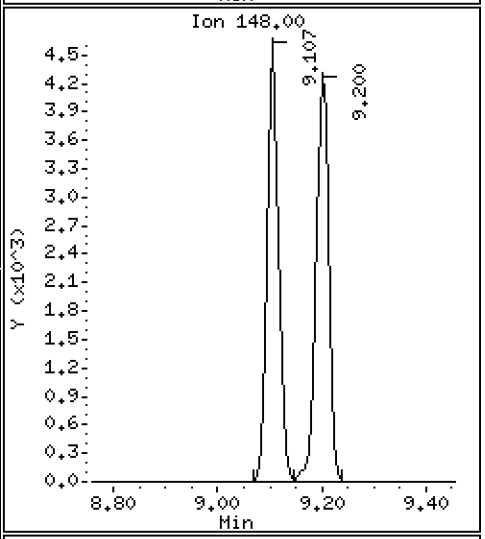
7 1,3-Dichlorobenzene

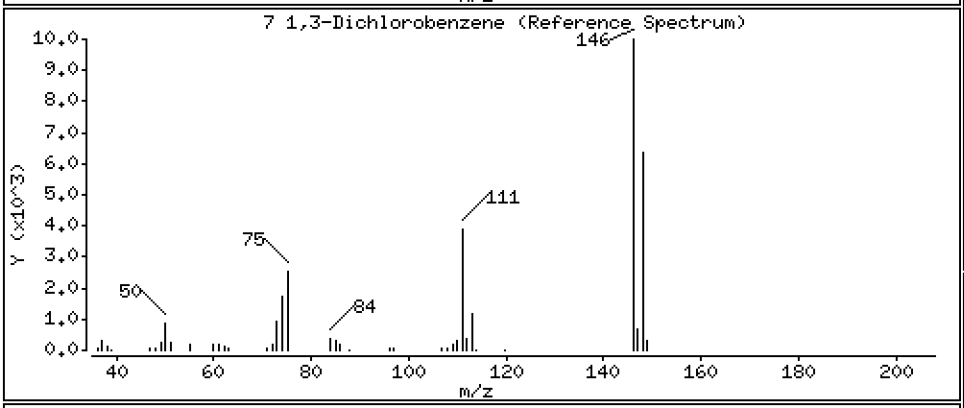
Concentration: 0.2457 ug/mL

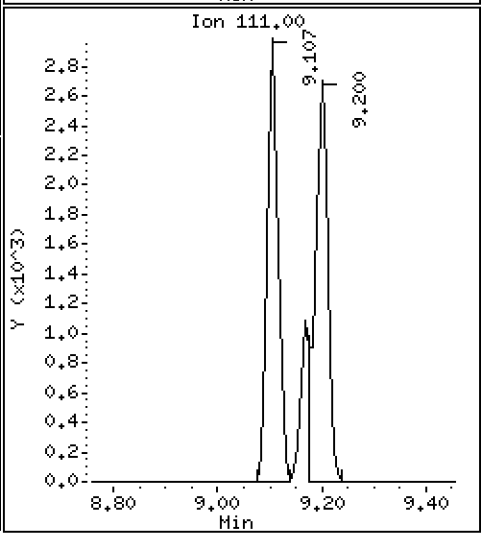


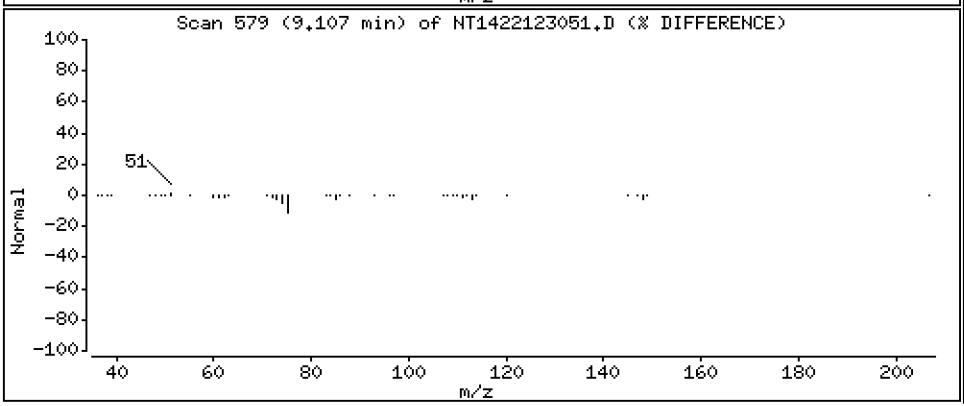












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

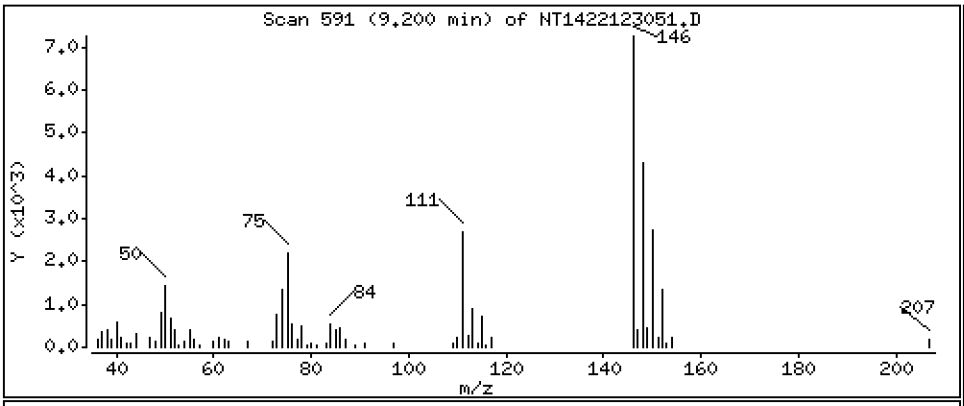
Operator: VTS

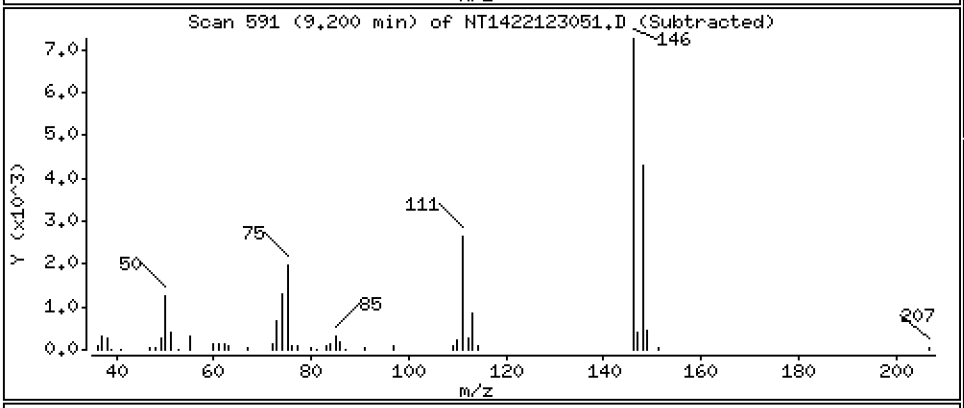
Column phase: ZB-5msi

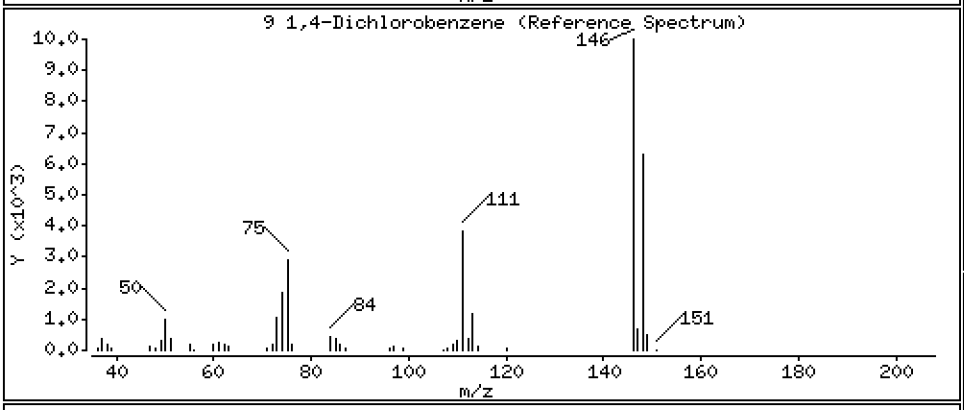
Column diameter: 0.25

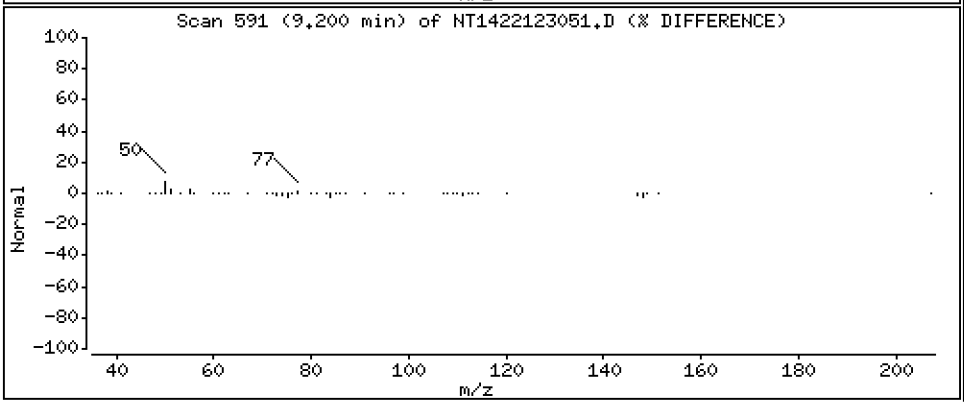
9 1,4-Dichlorobenzene

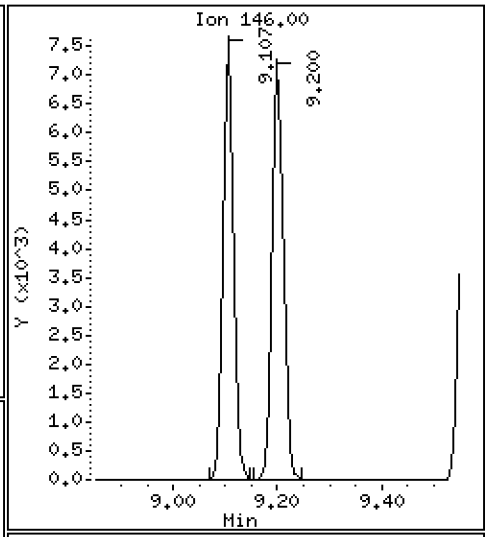
Concentration: 0.2487 ug/mL

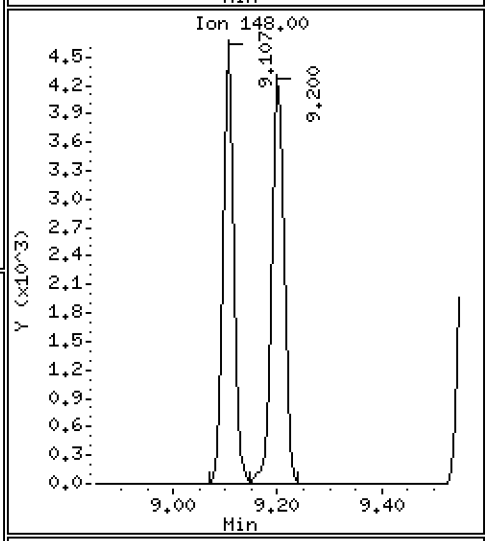


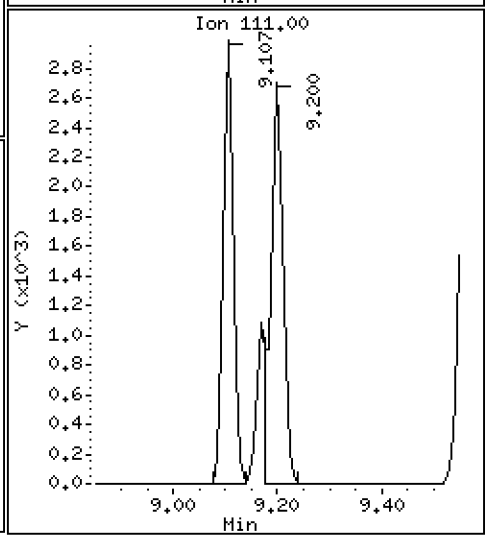












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

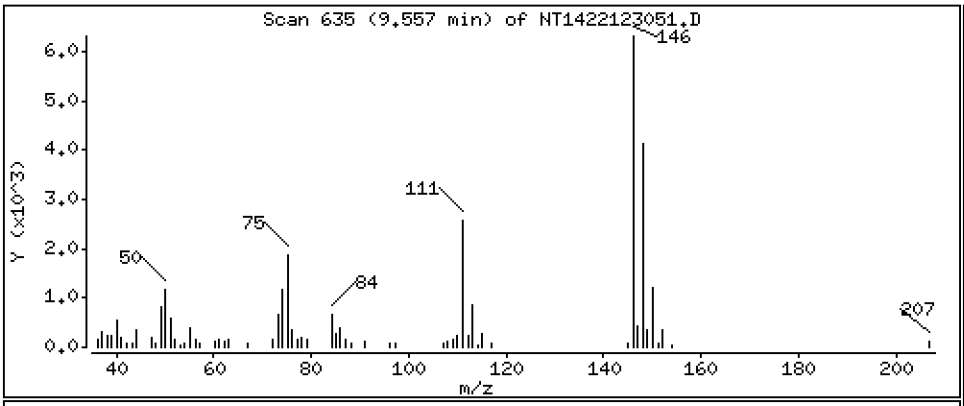
Operator: VTS

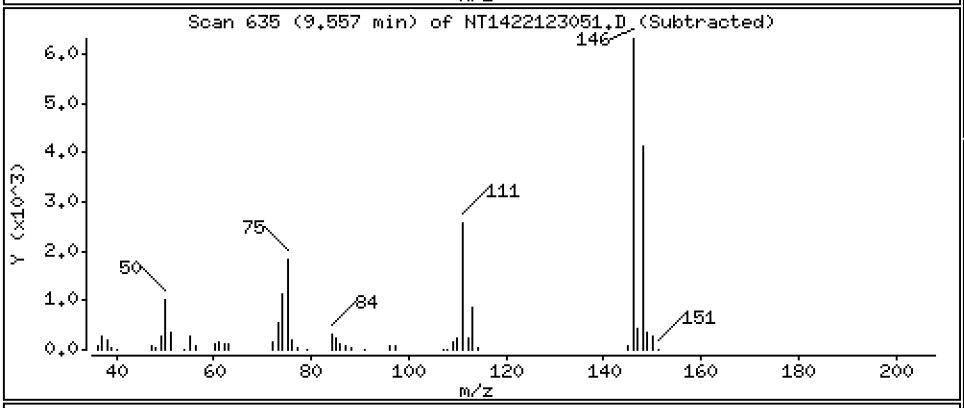
Column phase: ZB-5msi

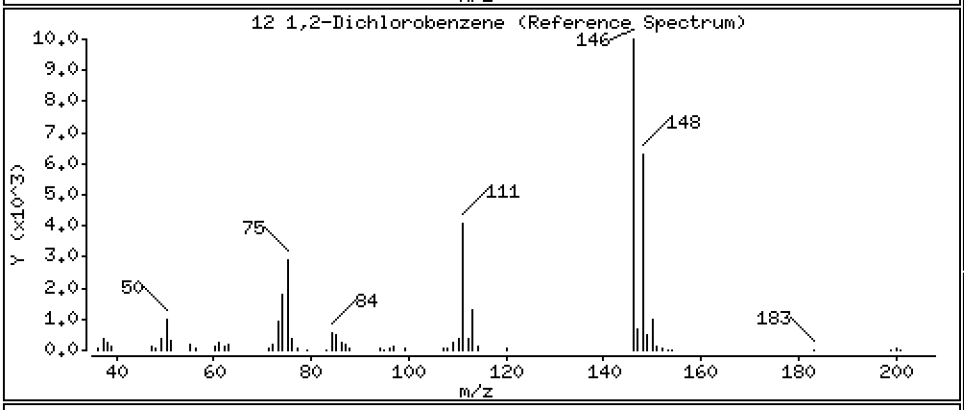
Column diameter: 0.25

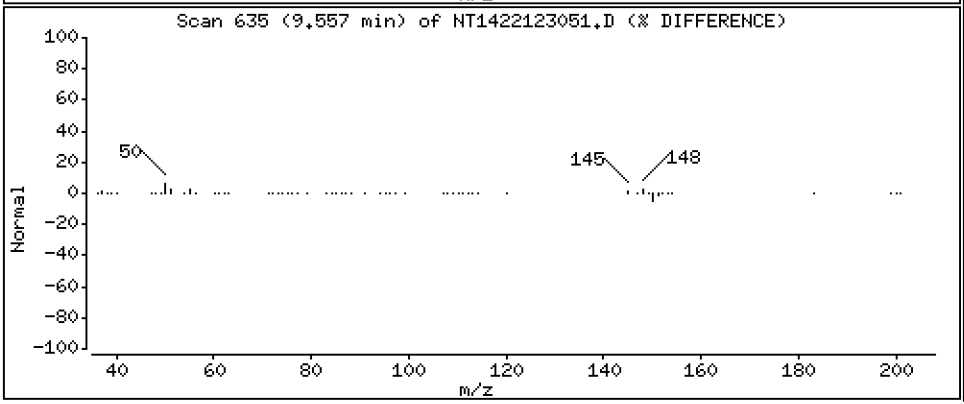
12 1,2-Dichlorobenzene

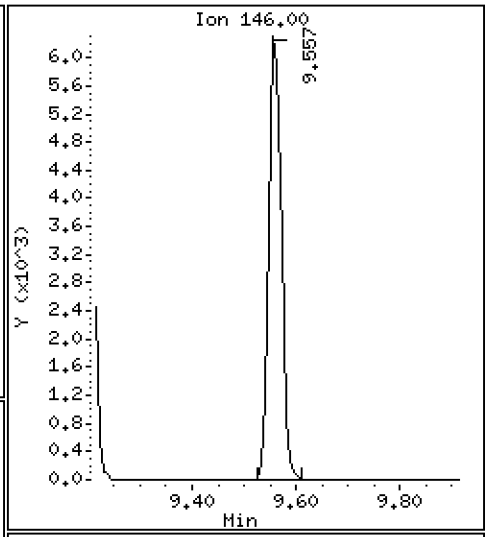
Concentration: 0.2432 ug/mL

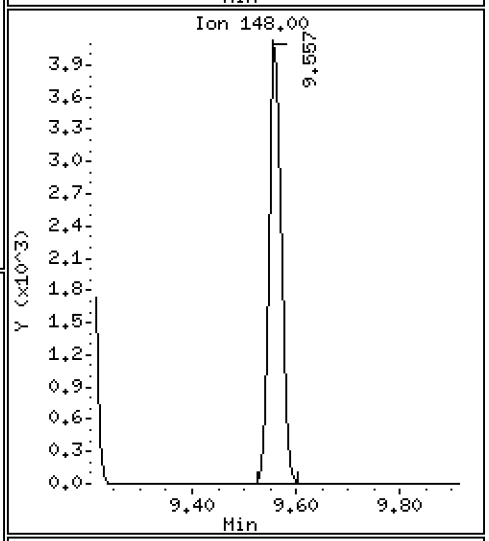


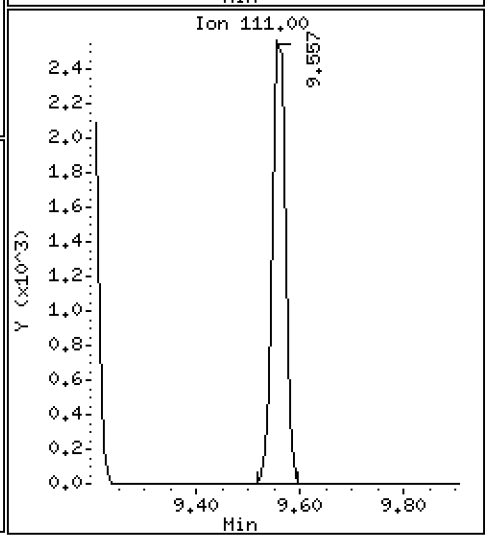












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

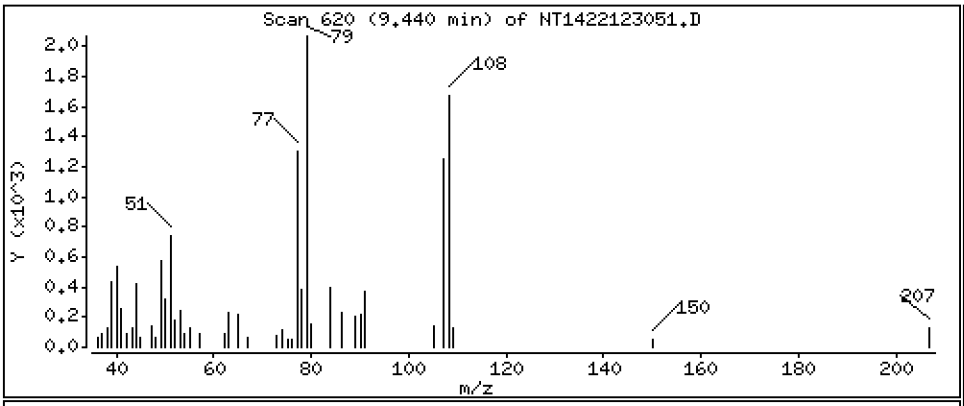
Operator: VTS

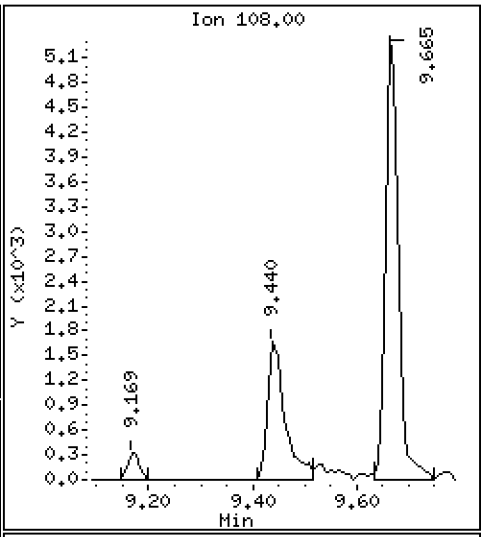
Column phase: ZB-5msi

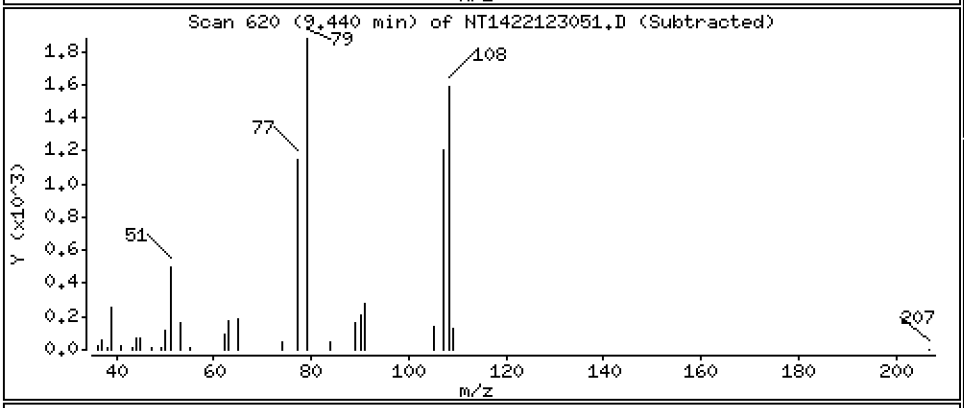
Column diameter: 0.25

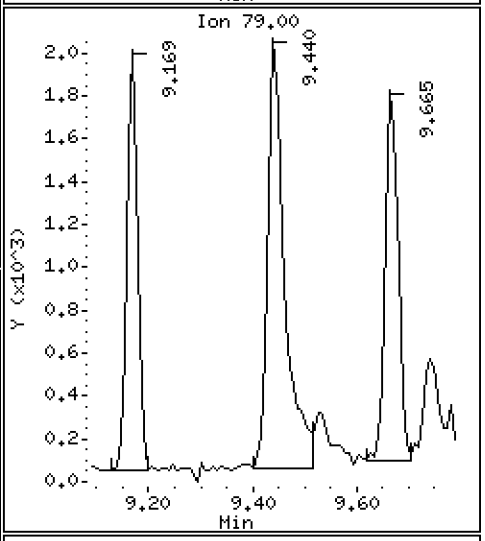
11 Benzyl alcohol

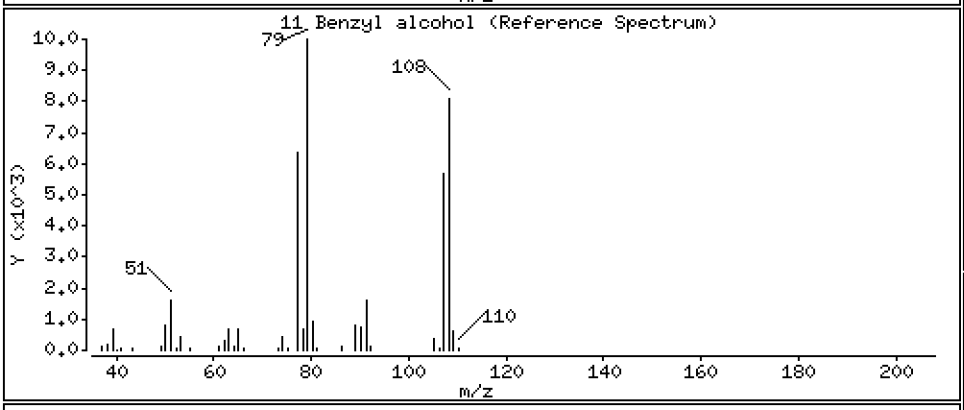
Concentration: 0.1623 ug/mL

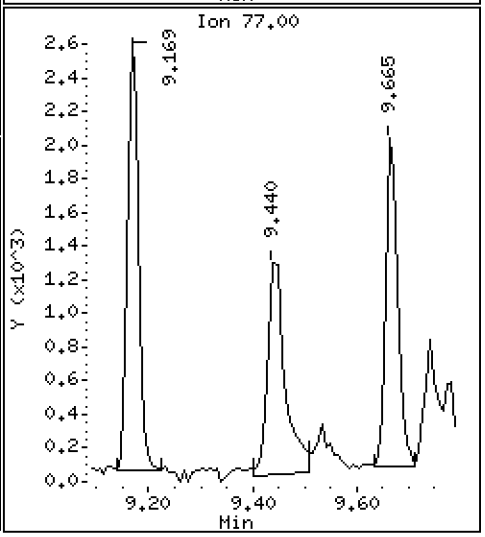


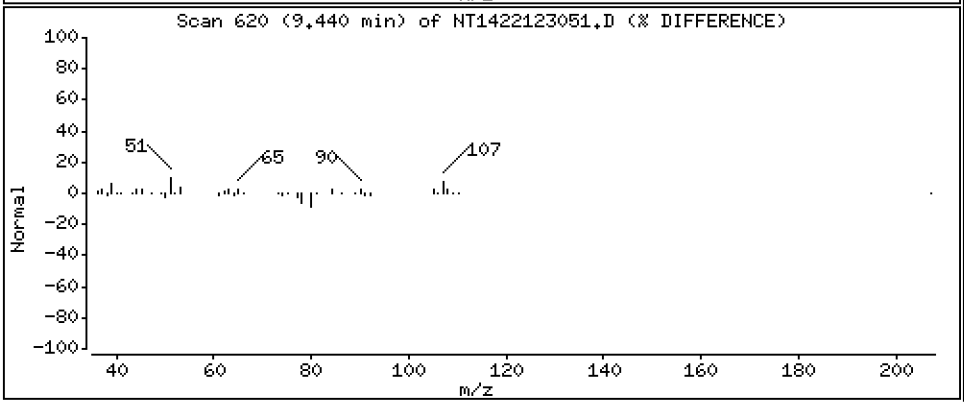












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

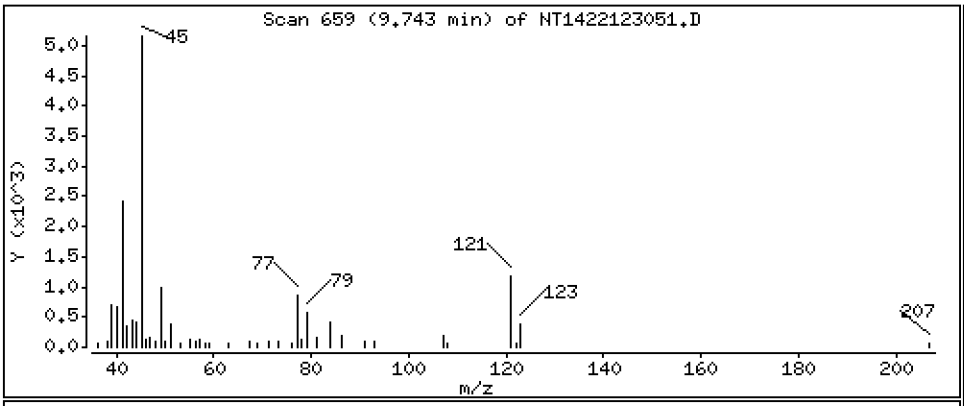
Operator: VTS

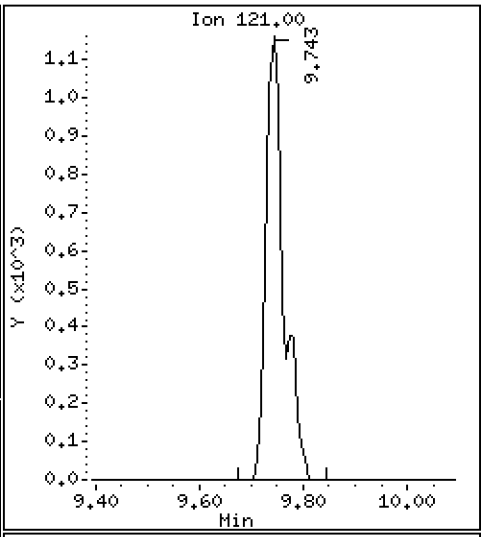
Column phase: ZB-5msi

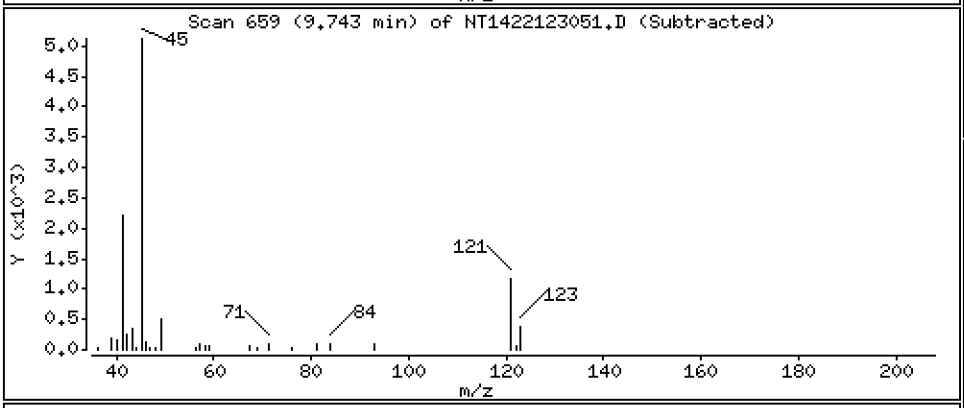
Column diameter: 0.25

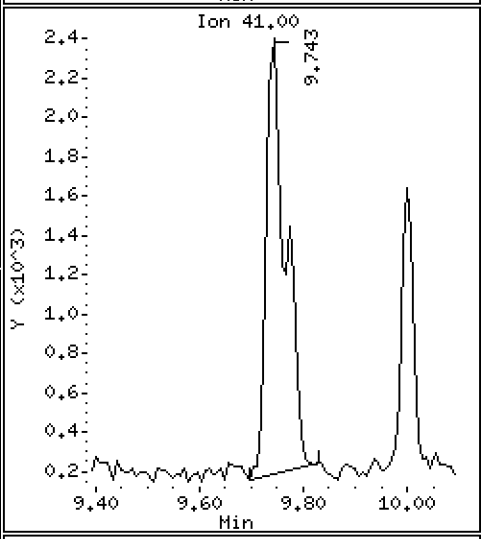
14 2,2'-oxybis(1-Chloropropane)

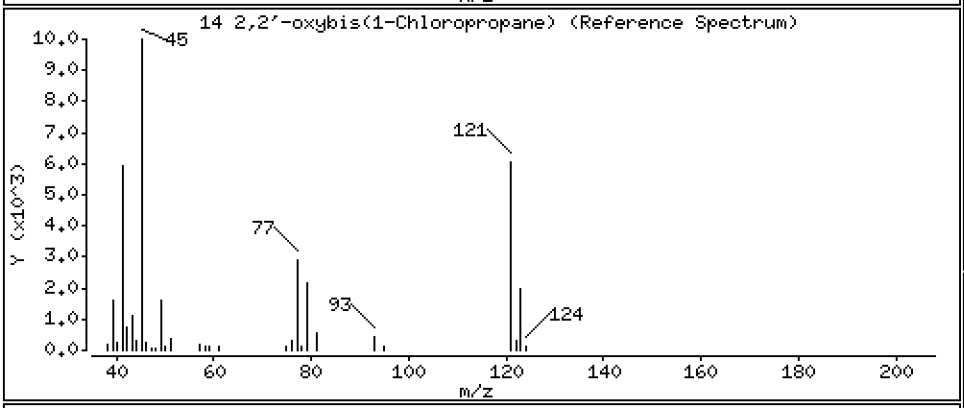
Concentration: 0.2236 ug/mL

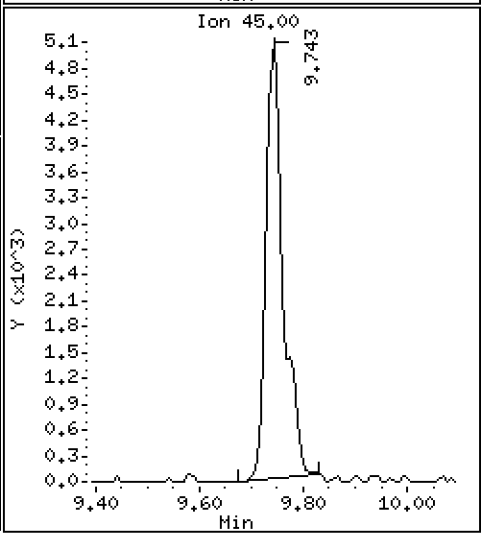


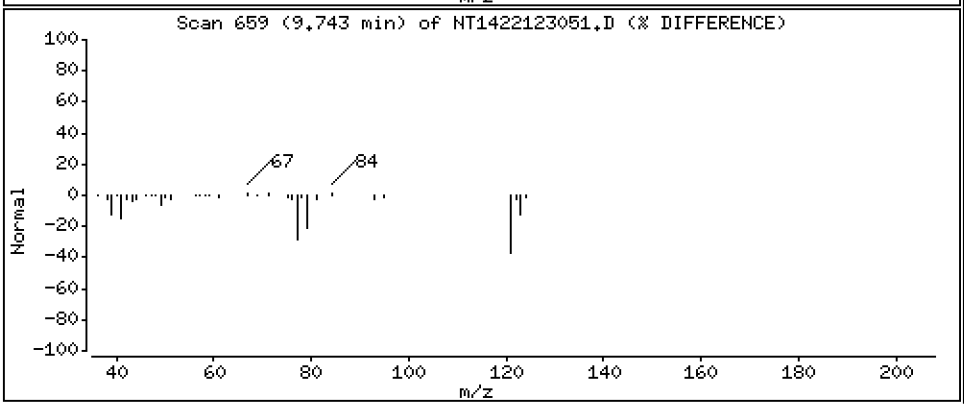












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

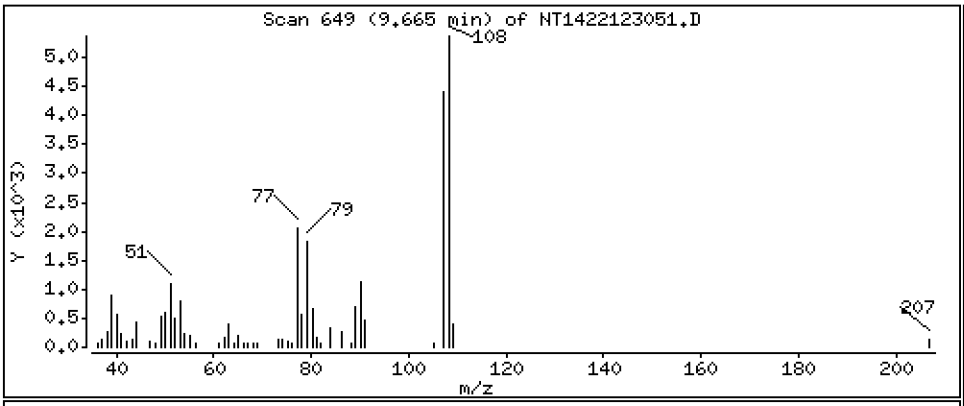
Operator: VTS

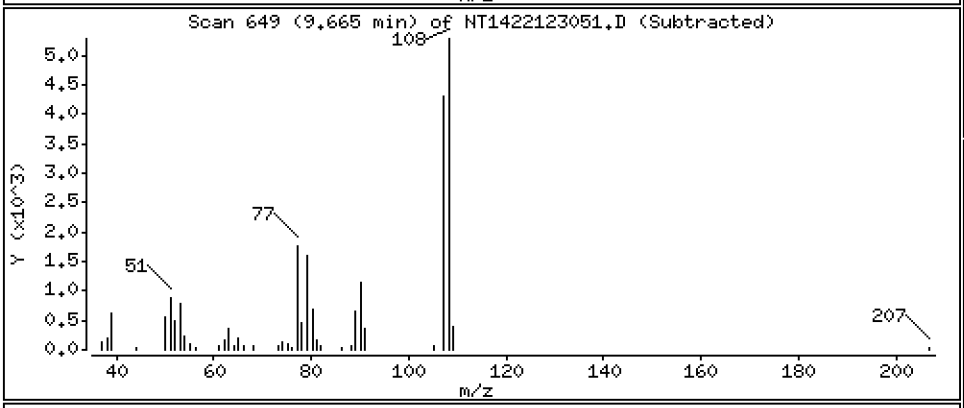
Column phase: ZB-5msi

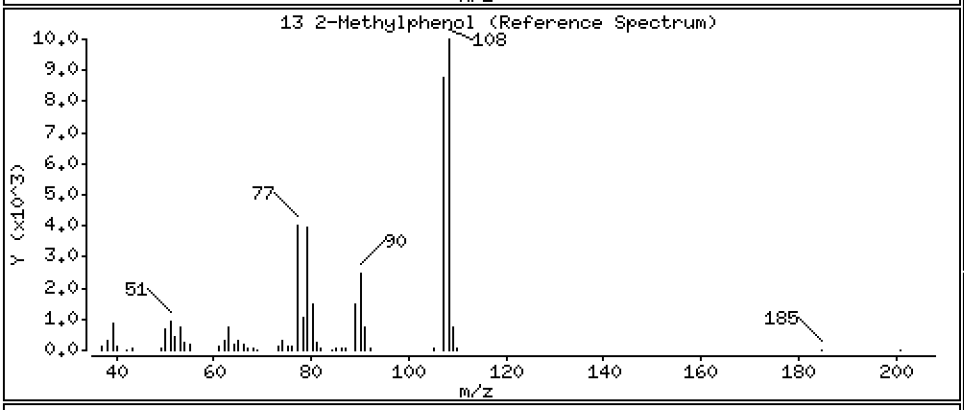
Column diameter: 0.25

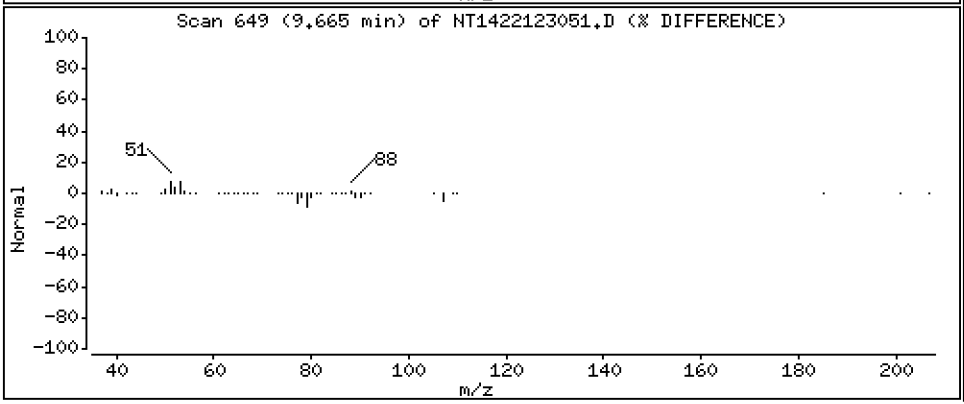
13 2-Methylphenol

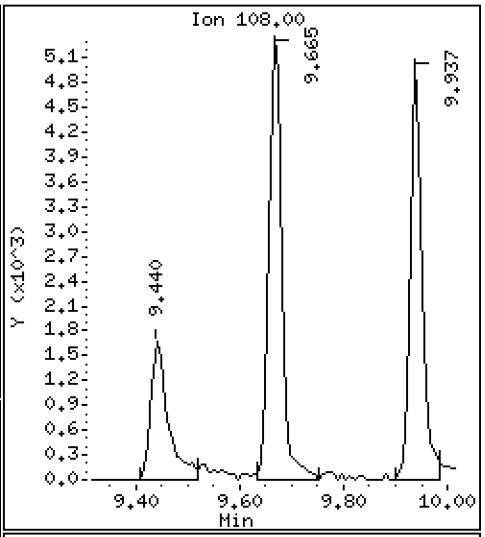
Concentration: 0.2341 ug/mL

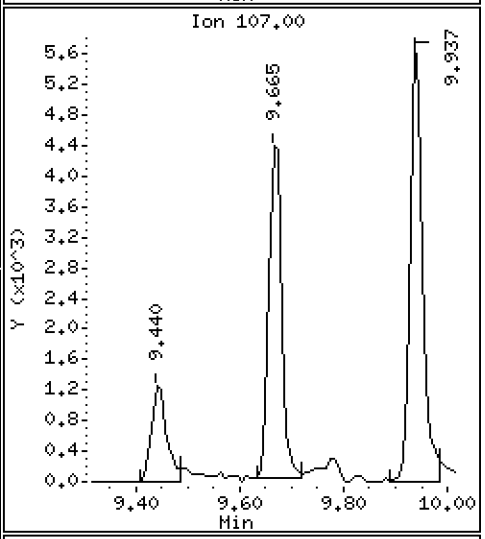


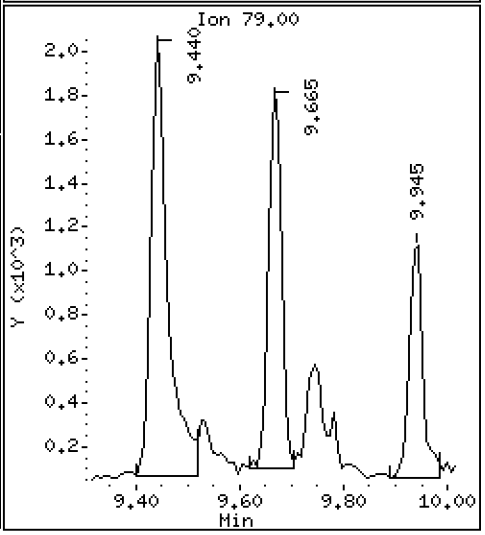












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

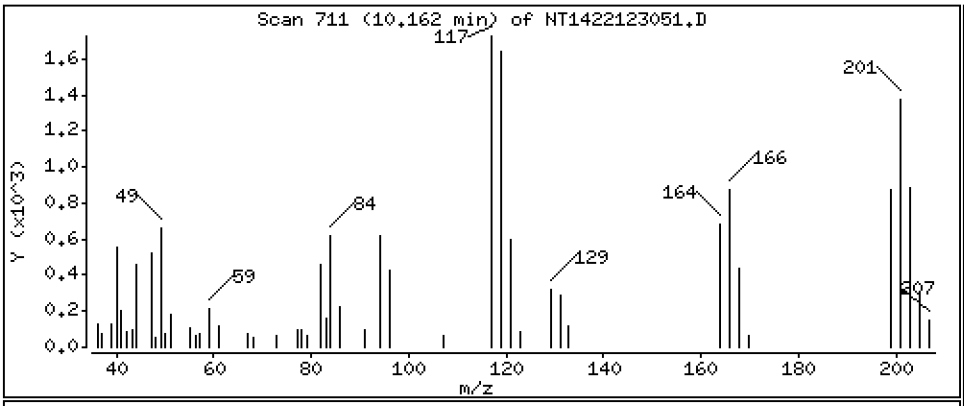
Operator: VTS

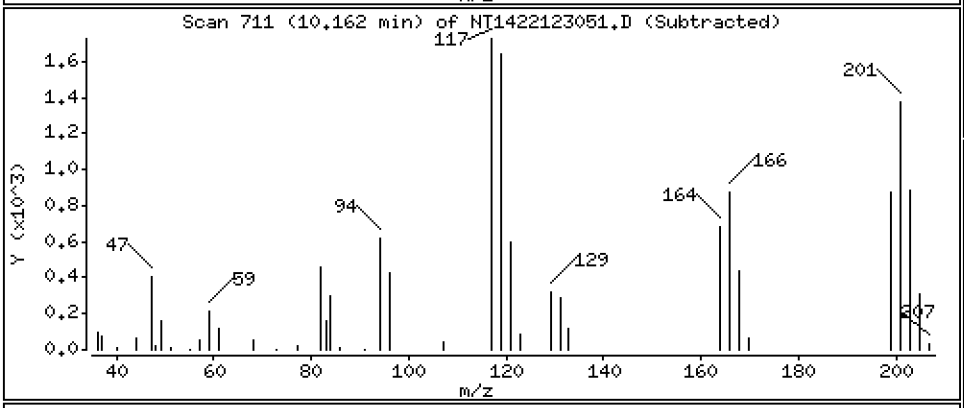
Column phase: ZB-5msi

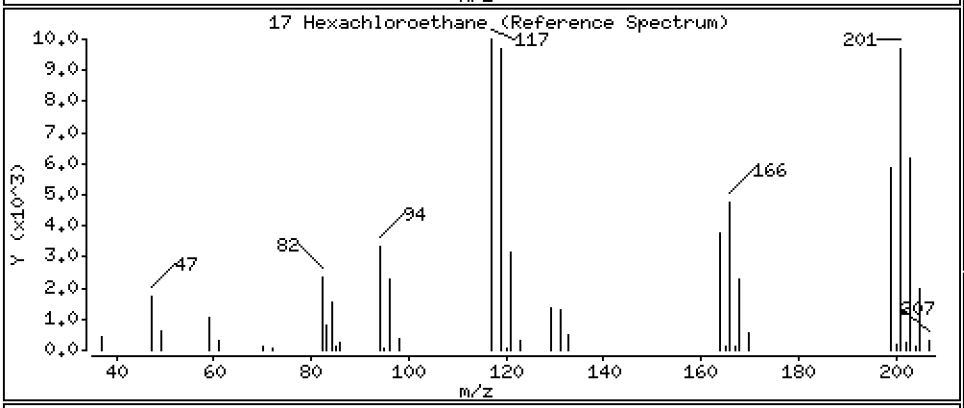
Column diameter: 0.25

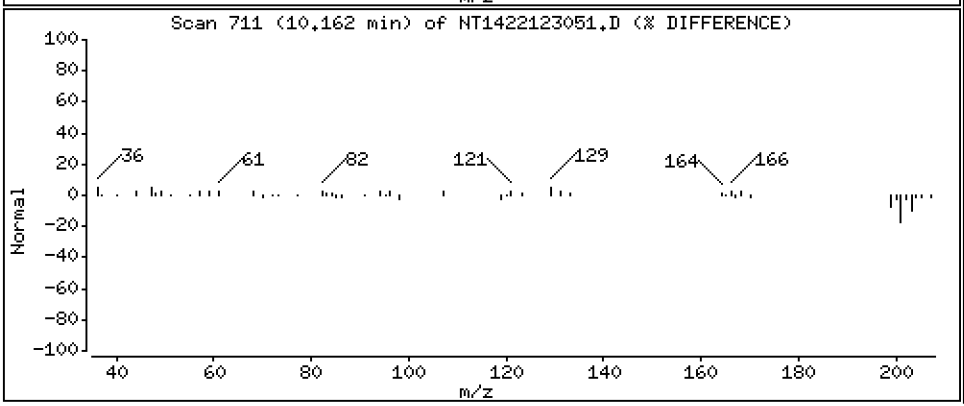
17 Hexachloroethane

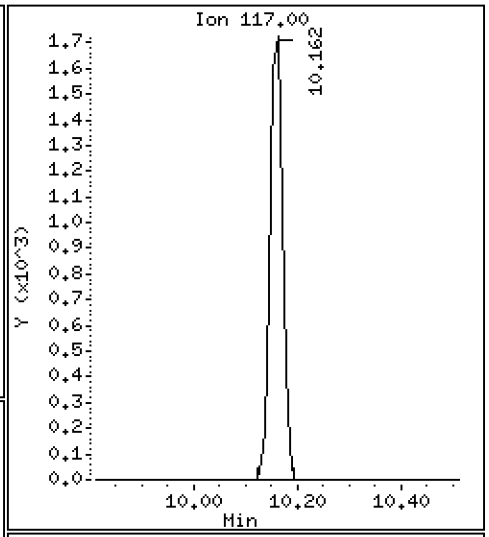
Concentration: 0.1755 ug/mL

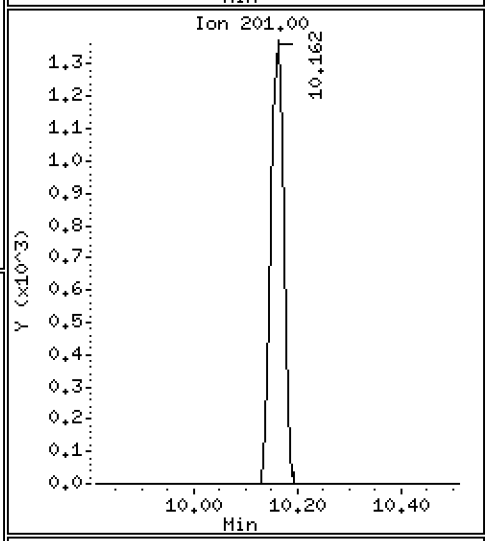


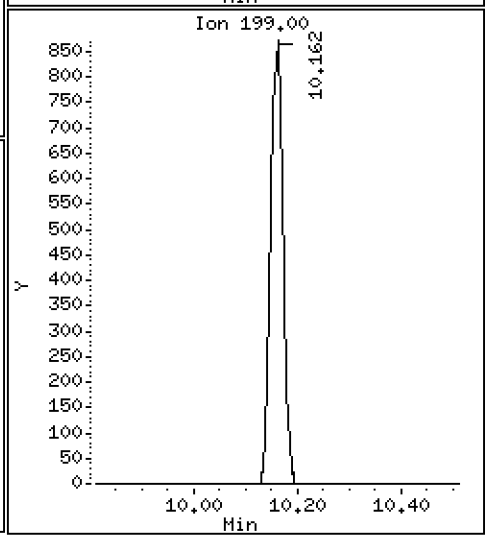












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

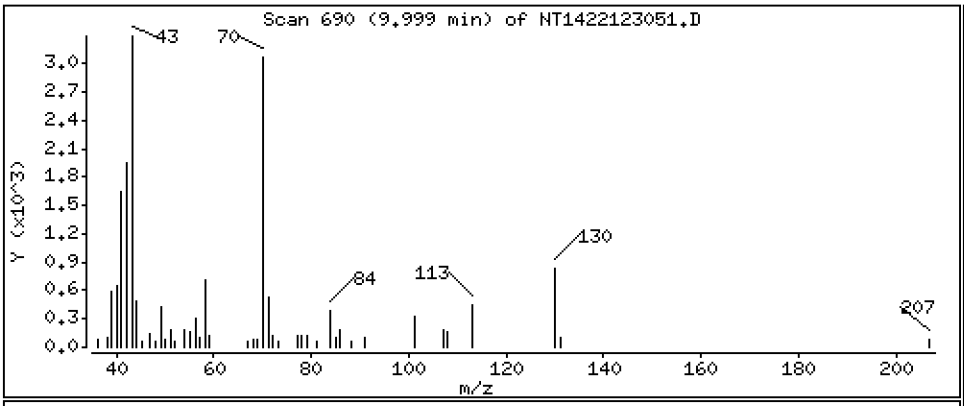
Operator: VTS

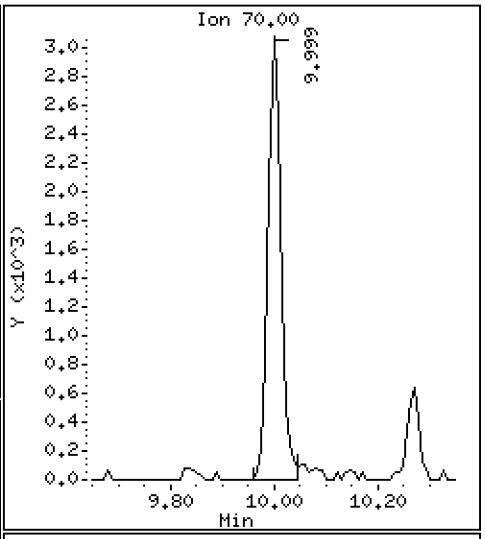
Column phase: ZB-5msi

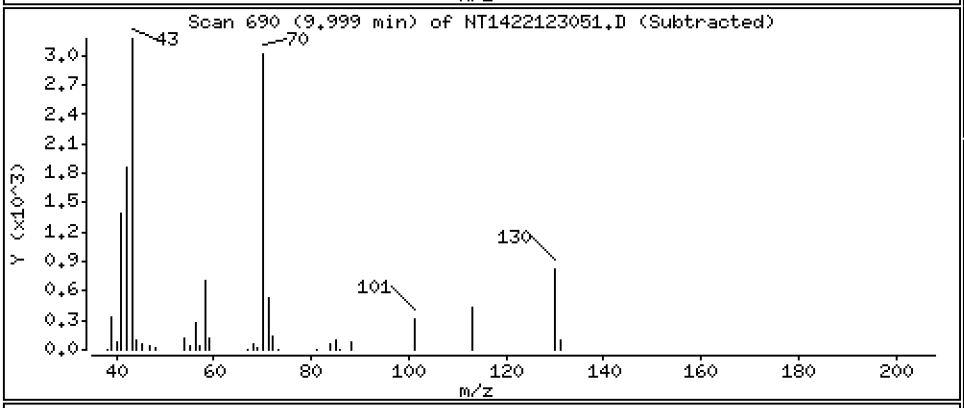
Column diameter: 0.25

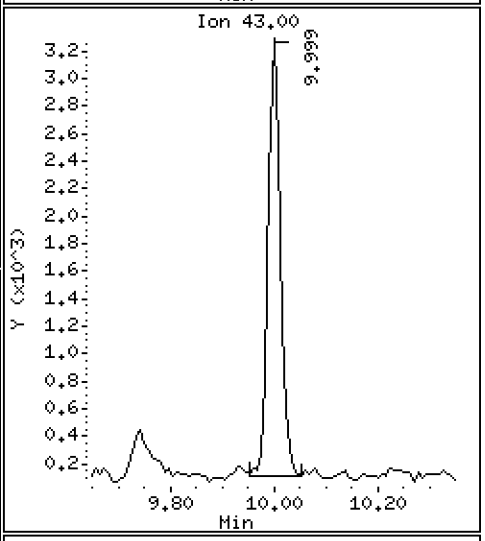
16 N-Nitroso-di-n-propylamine

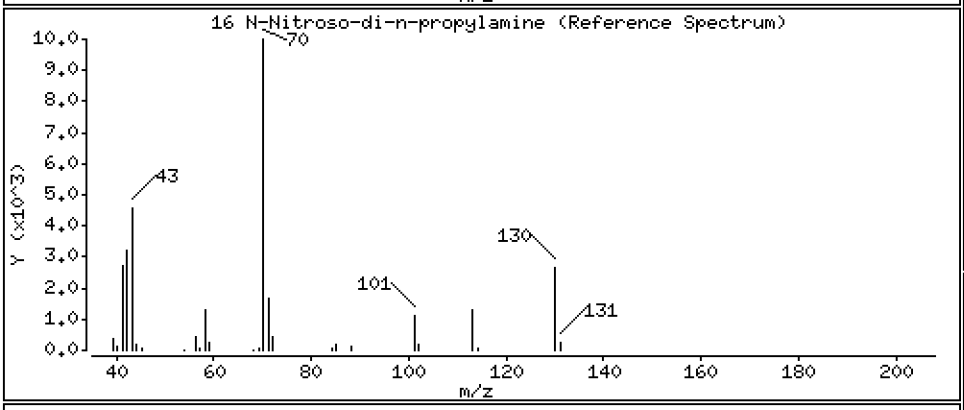
Concentration: 0.2208 ug/mL

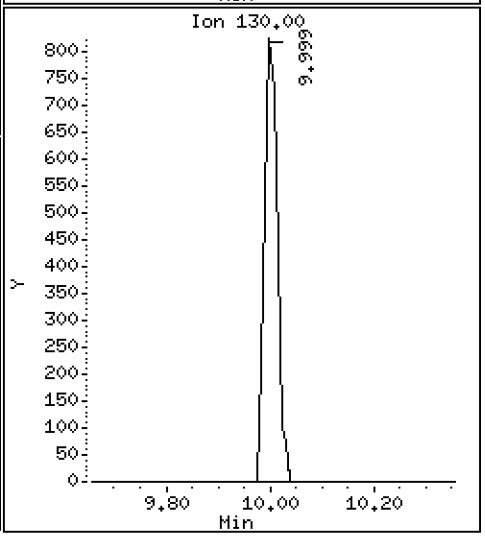


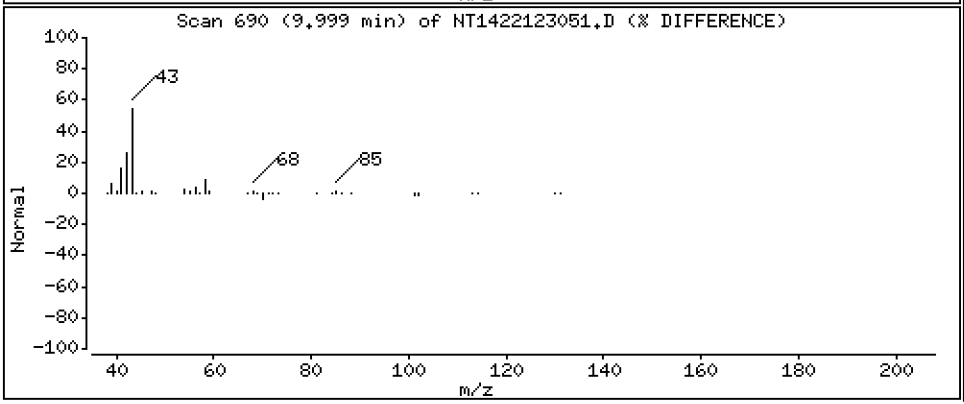












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

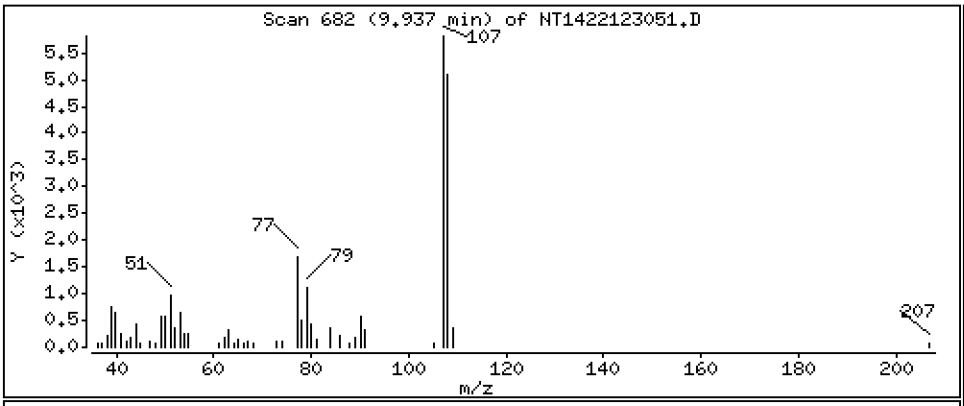
Operator: VTS

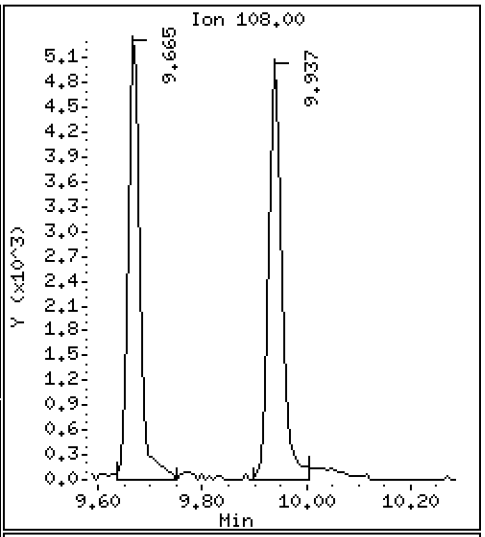
Column phase: ZB-5msi

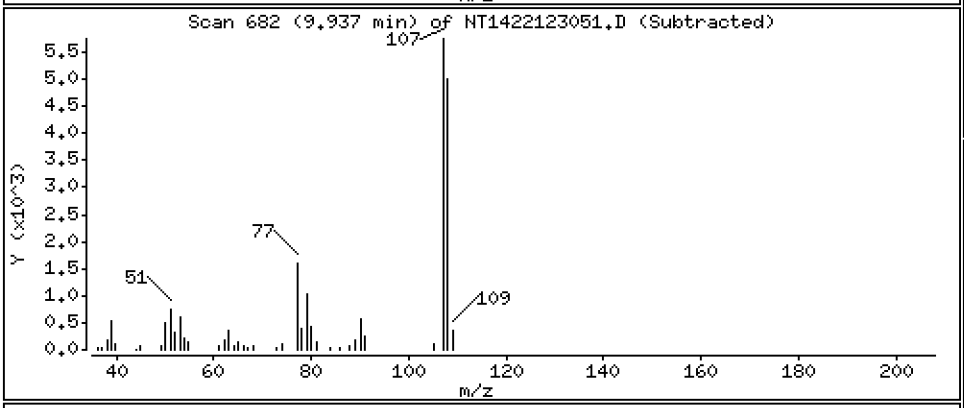
Column diameter: 0.25

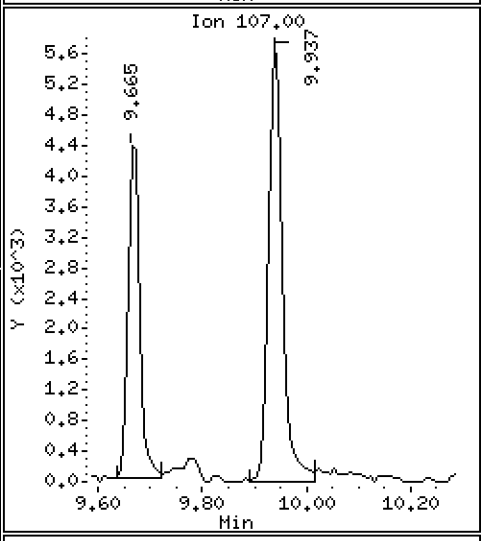
15 4-Methylphenol

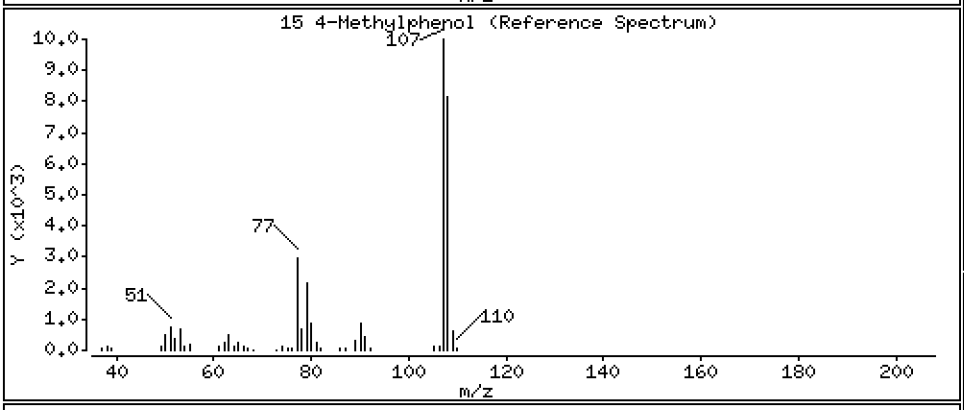
Concentration: 0.2121 ug/mL

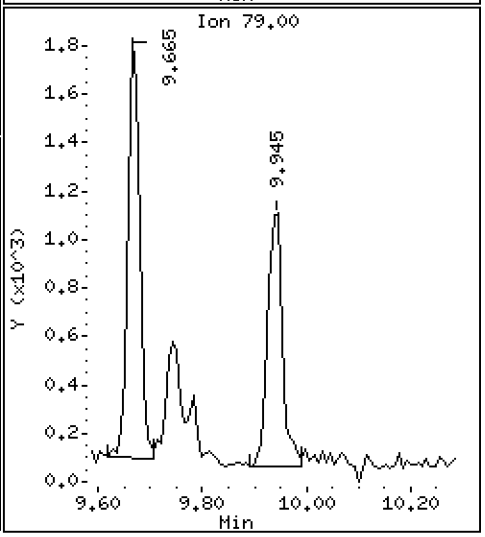


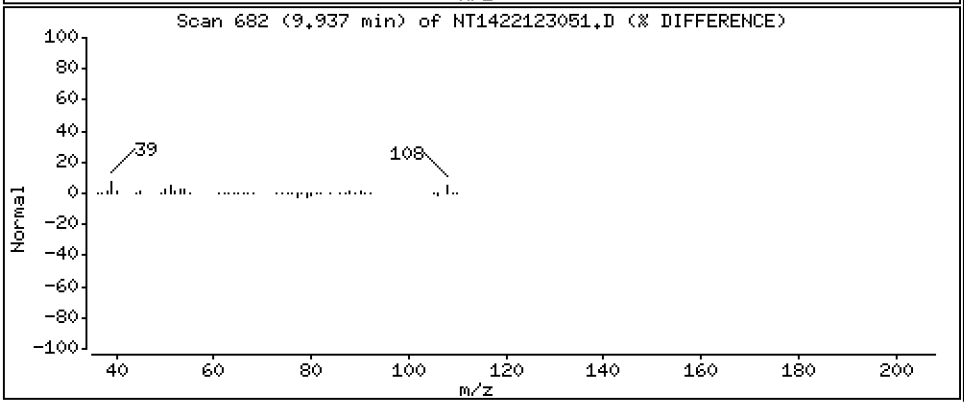












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

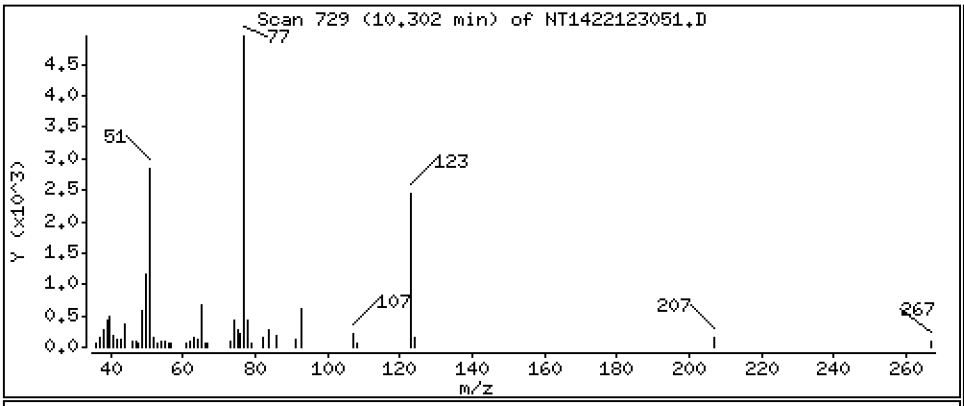
Operator: VTS

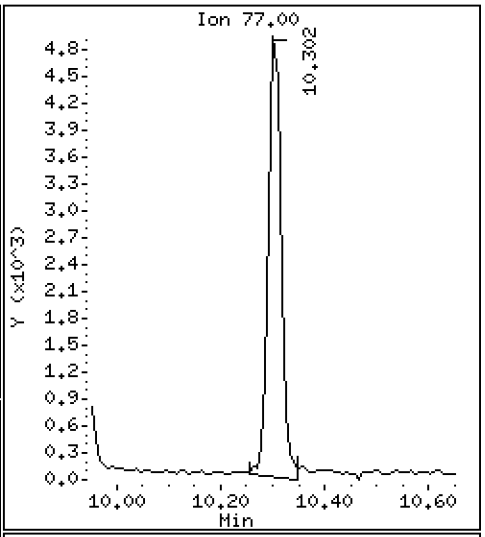
Column phase: ZB-5msi

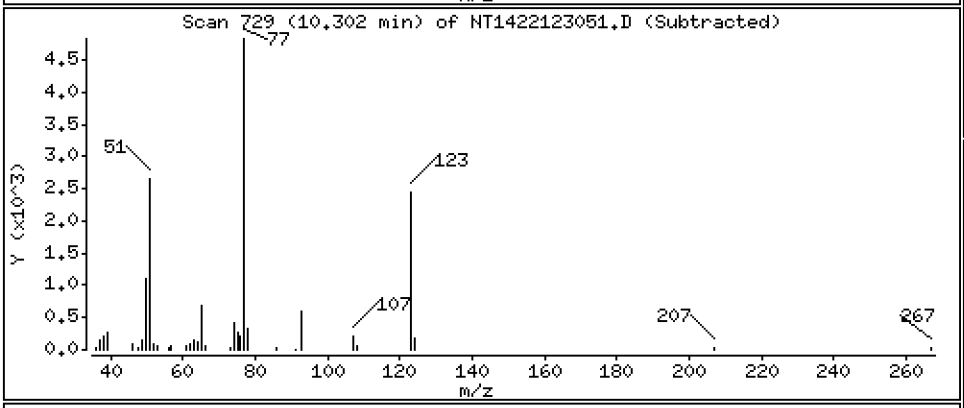
Column diameter: 0.25

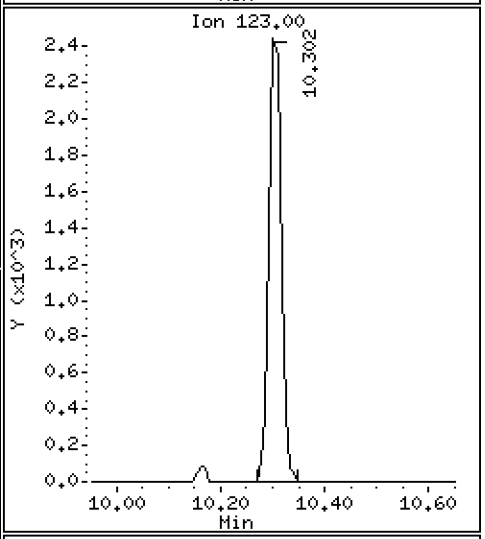
19 Nitrobenzene

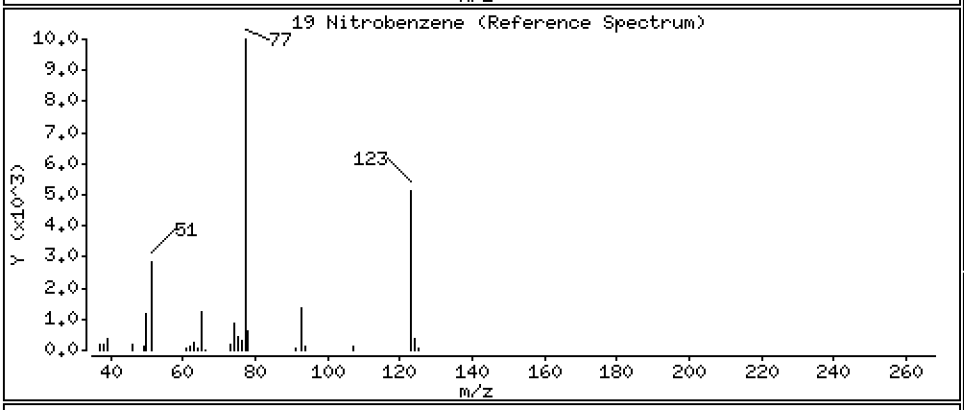
Concentration: 0.2254 ug/mL

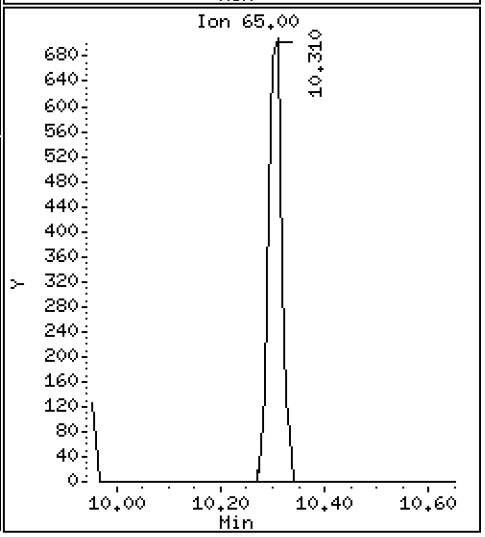


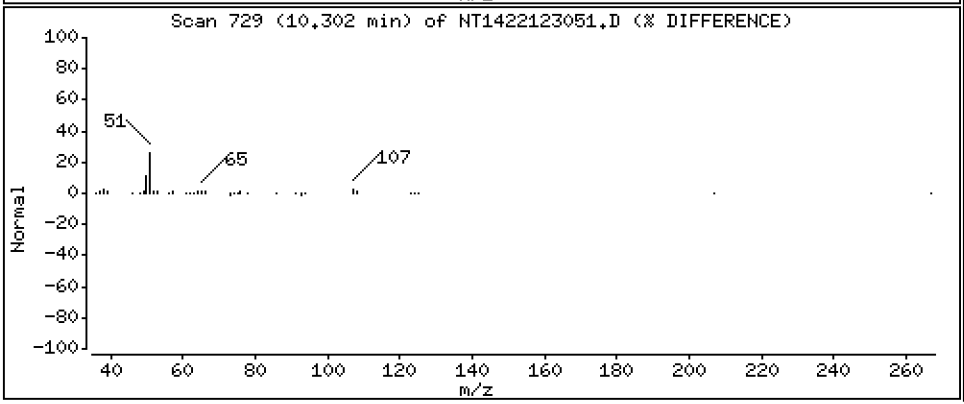












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

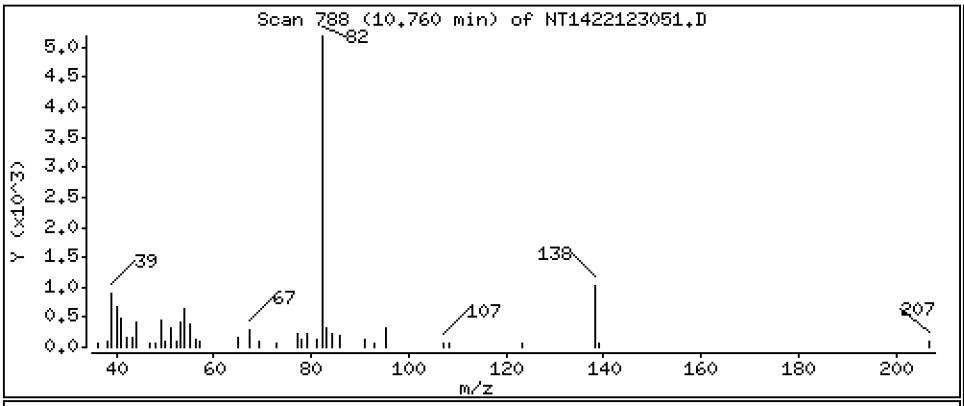
Operator: VTS

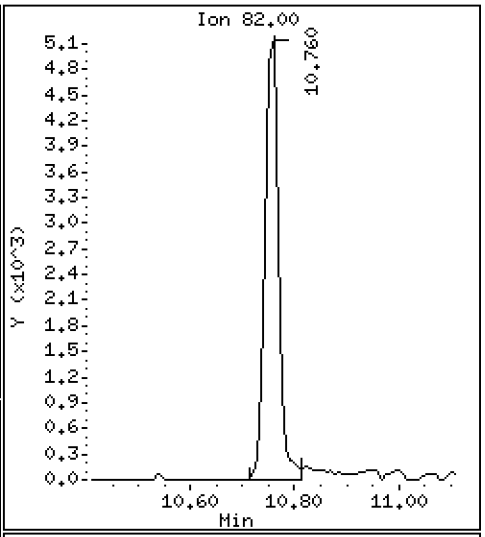
Column phase: ZB-5msi

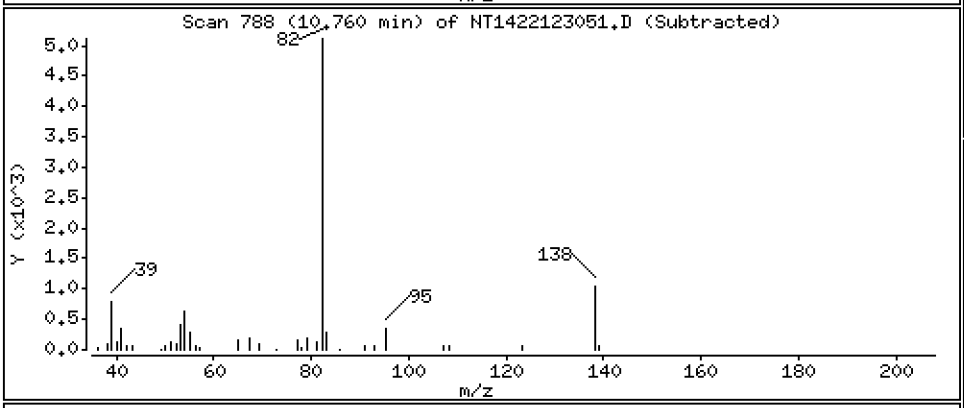
Column diameter: 0.25

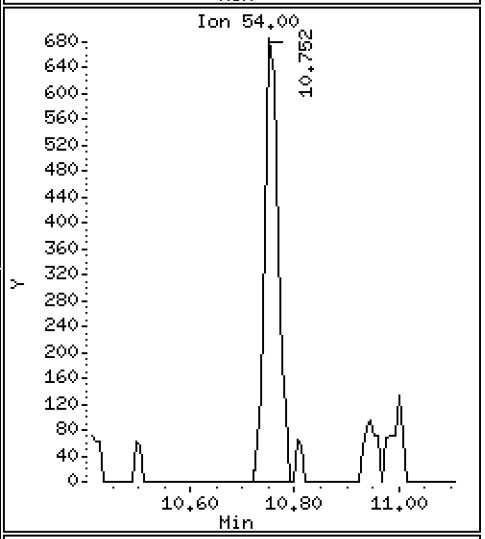
20 Isophorone

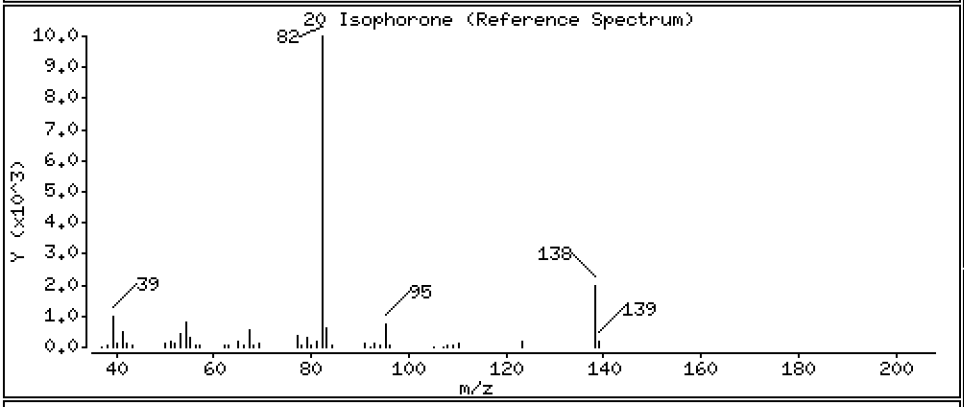
Concentration: 0.1965 ug/mL

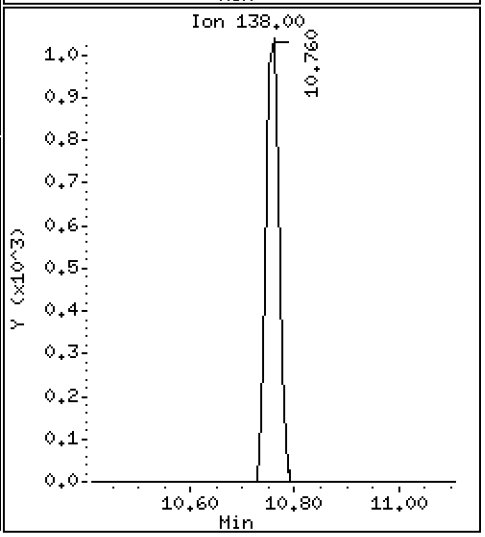


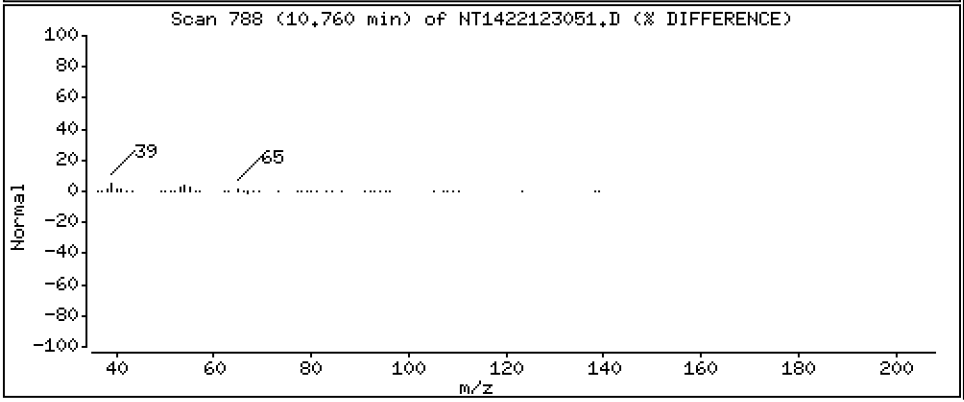












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

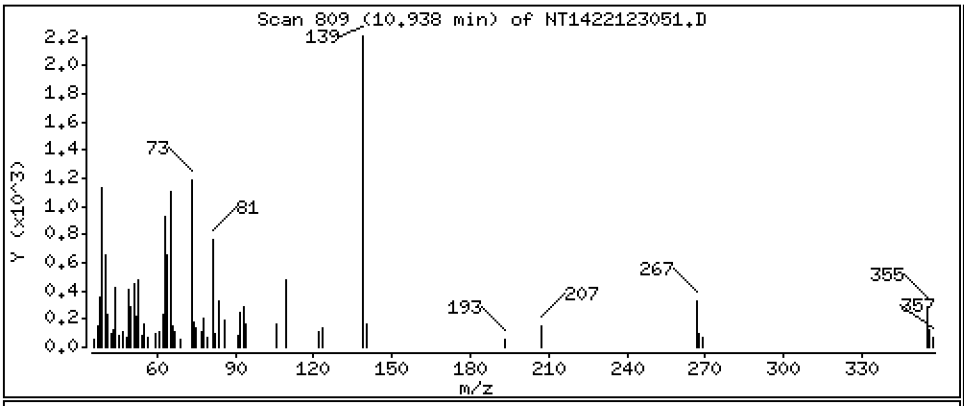
Operator: VTS

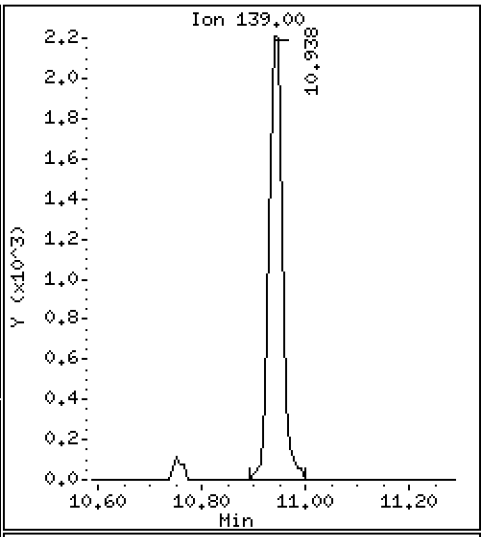
Column phase: ZB-5msi

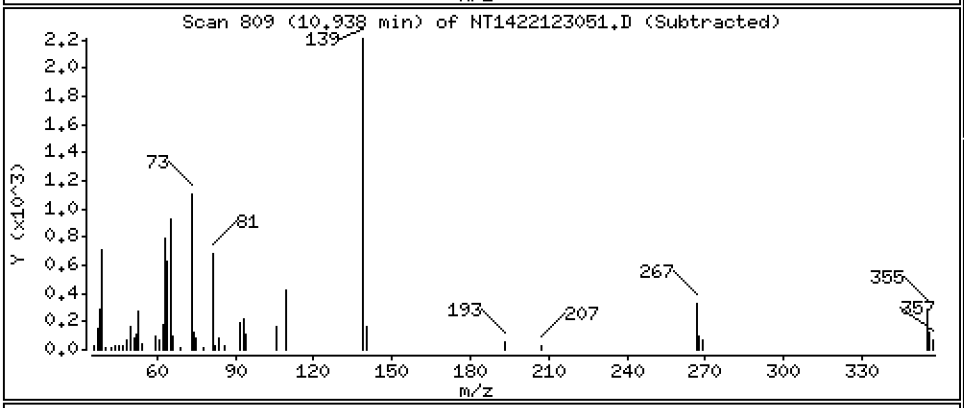
Column diameter: 0.25

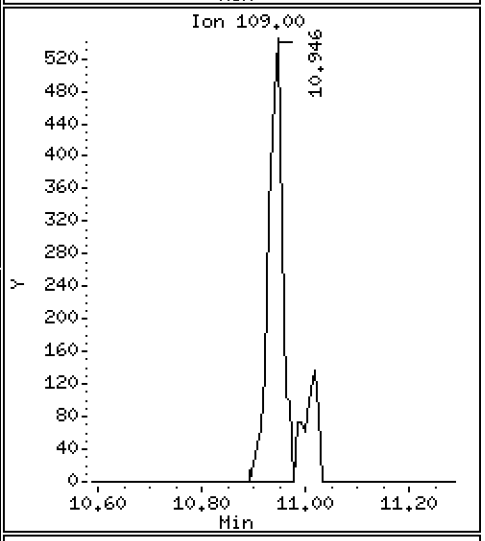
21 2-Nitrophenol

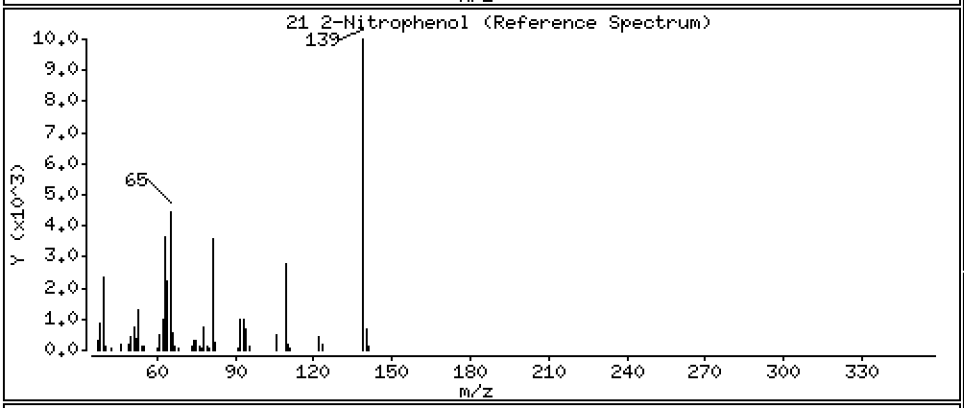
Concentration: 0.2028 ug/mL

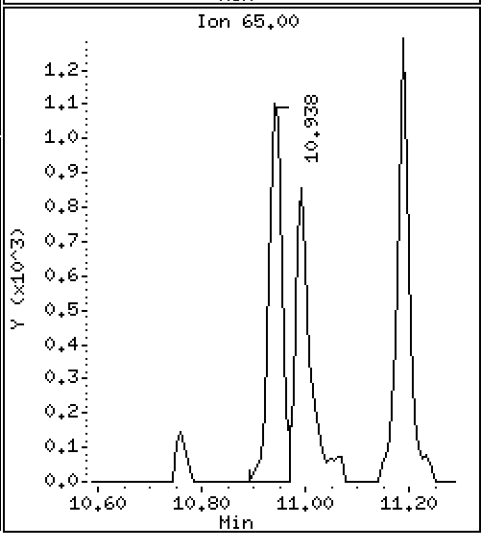


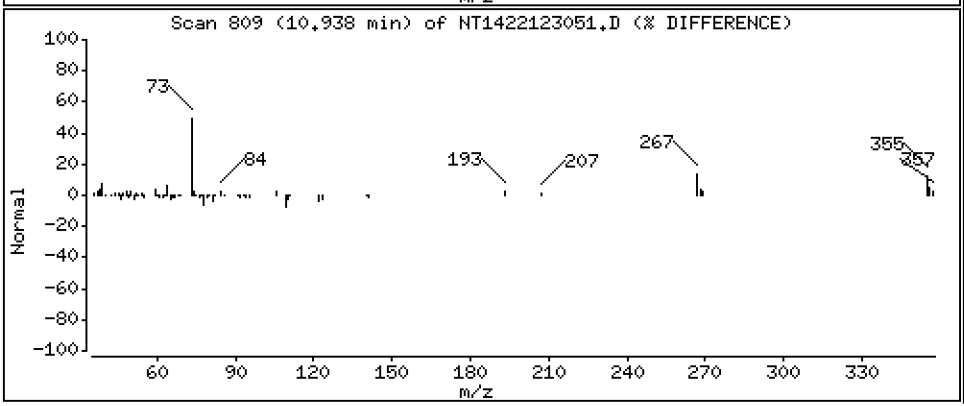












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

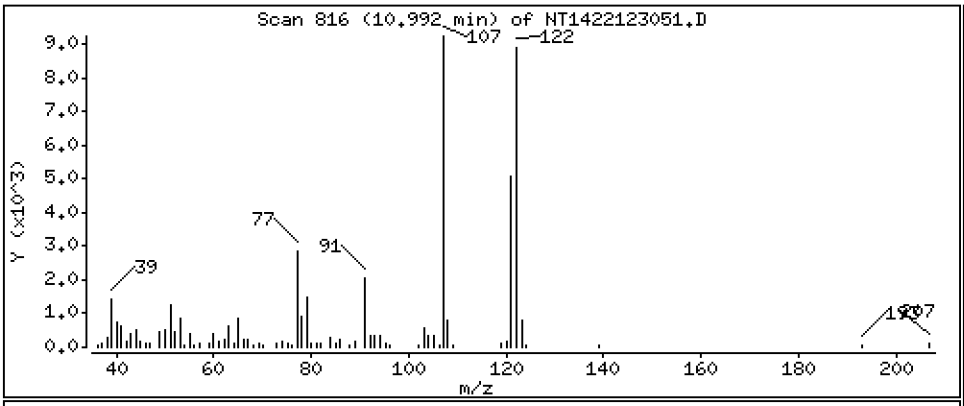
Operator: VTS

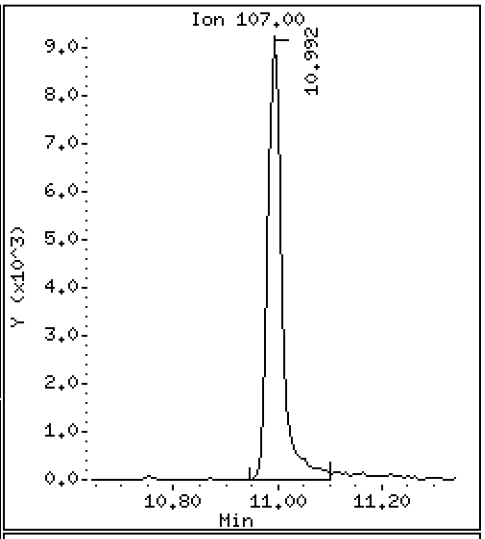
Column phase: ZB-5msi

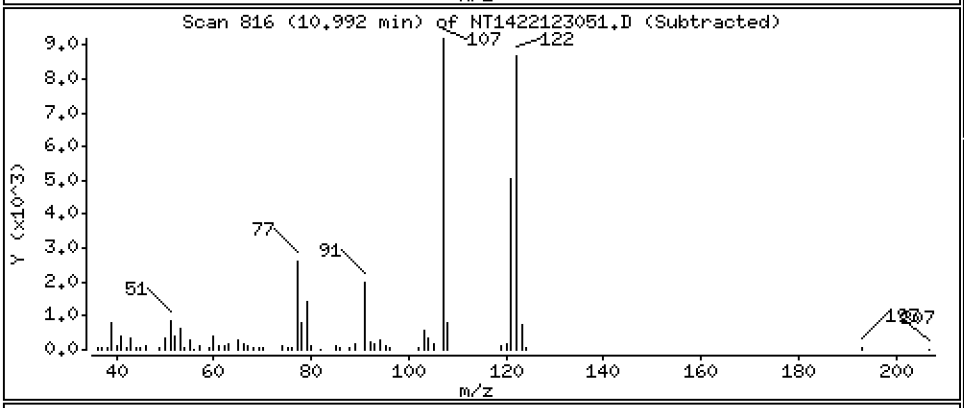
Column diameter: 0.25

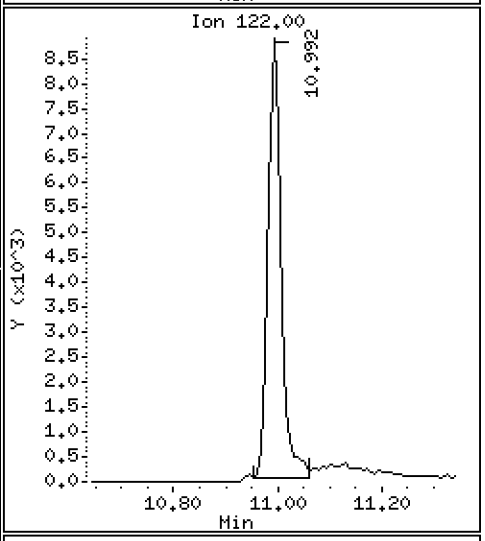
22 2,4-Dimethylphenol

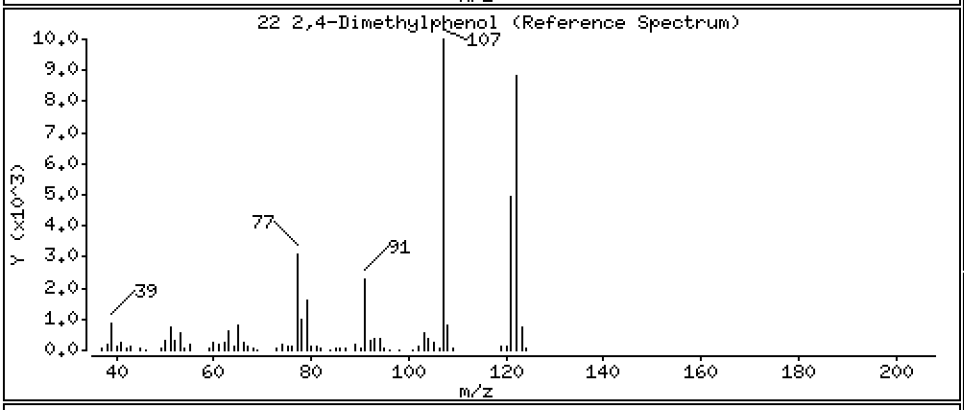
Concentration: 0.4556 ug/mL

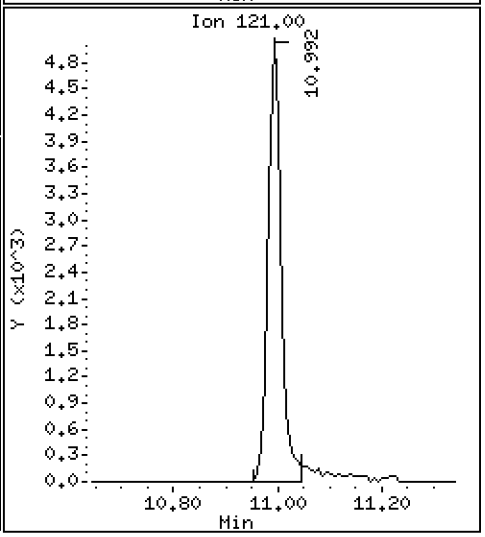


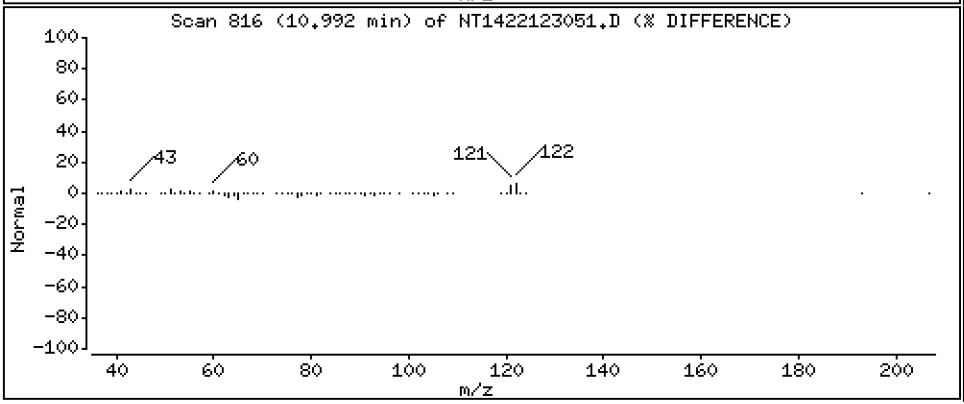












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

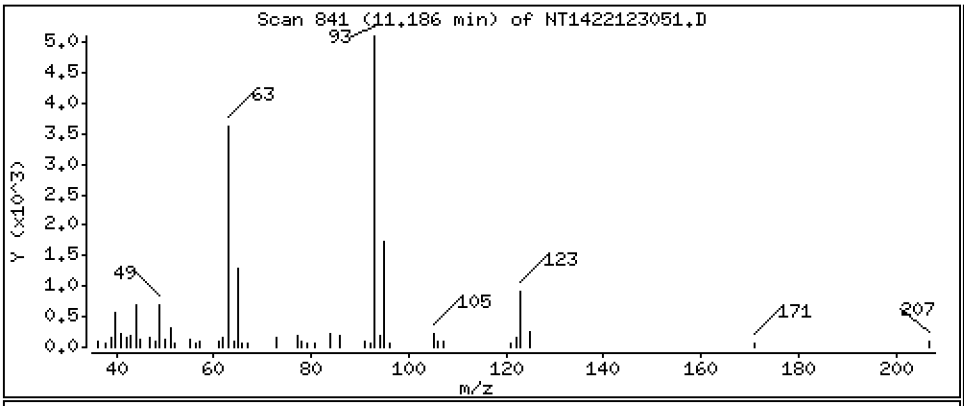
Operator: VTS

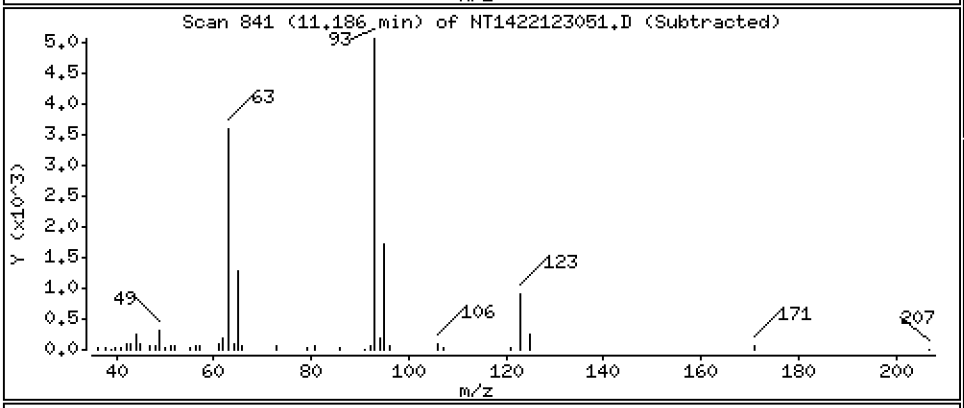
Column phase: ZB-5msi

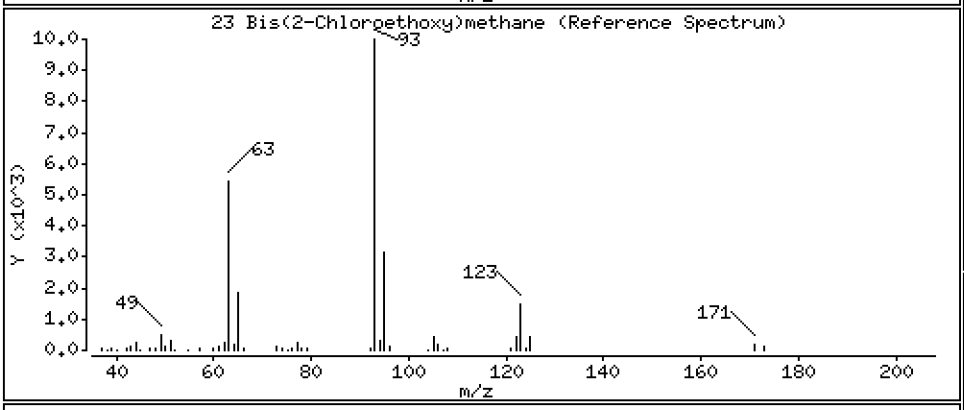
Column diameter: 0.25

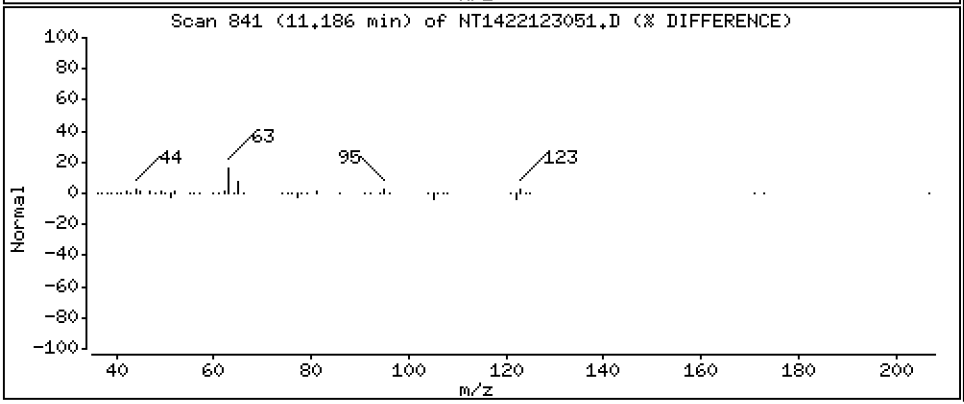
23 Bis(2-Chloroethoxy)methane

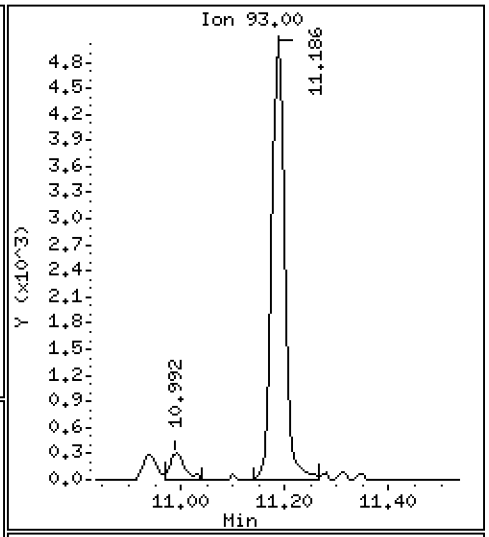
Concentration: 0.2358 ug/mL

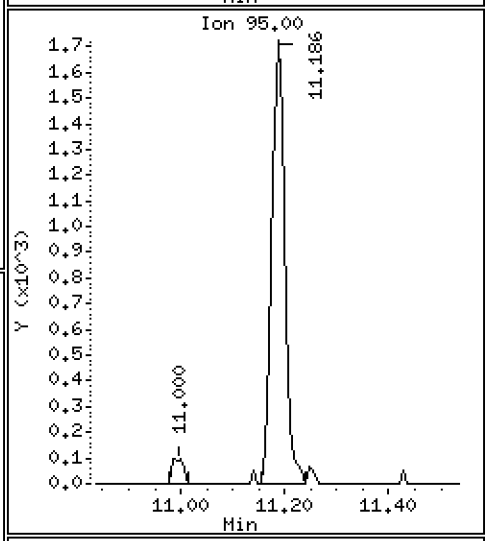


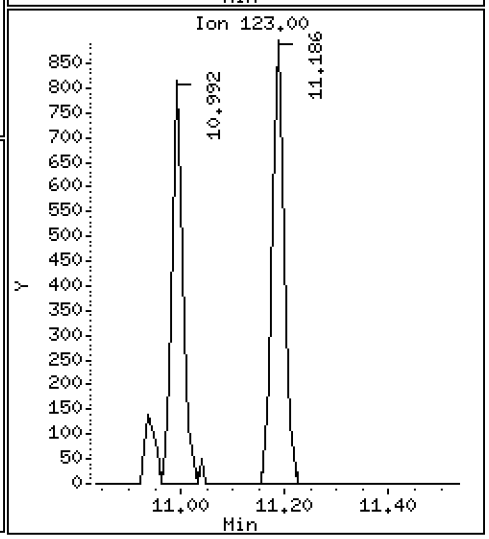












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

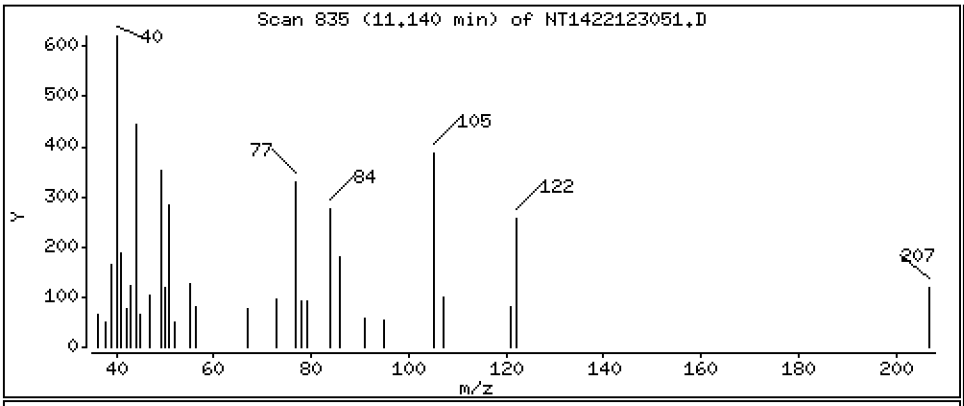
Operator: VTS

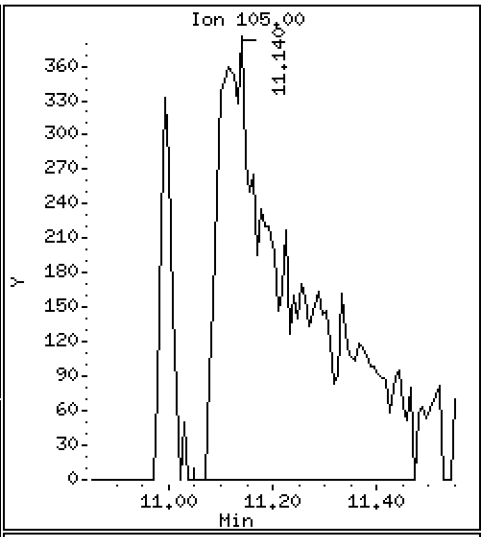
Column phase: ZB-5msi

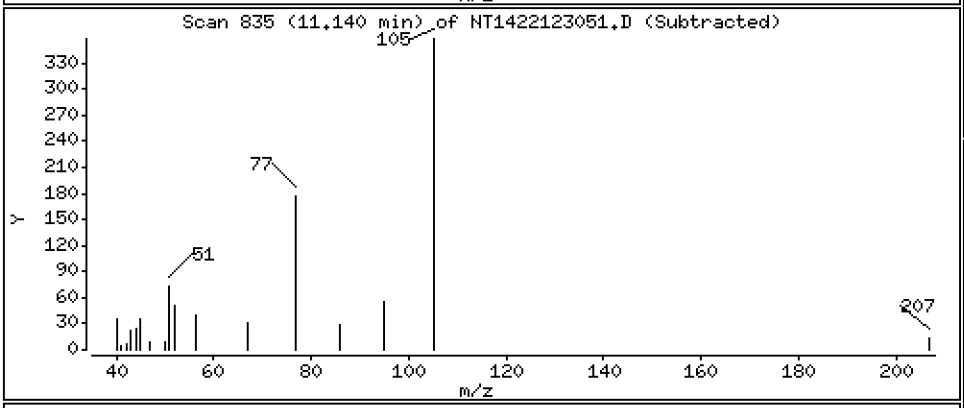
Column diameter: 0.25

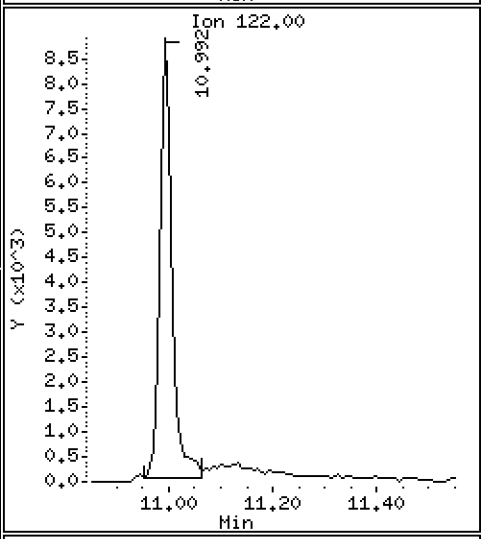
24 Benzoic acid

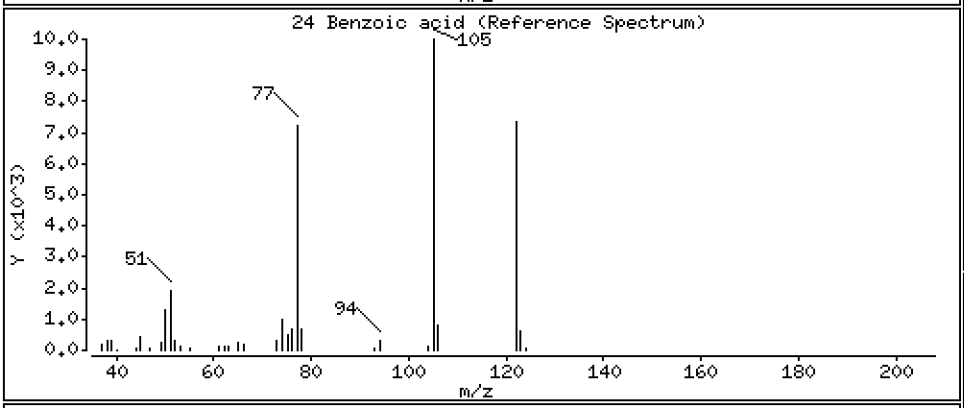
Concentration: 0.1748 ug/mL

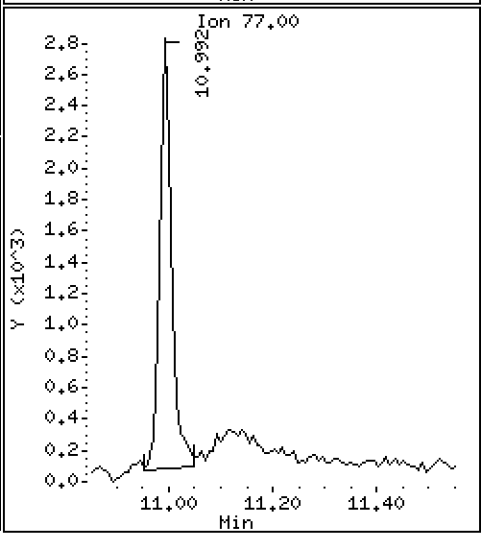


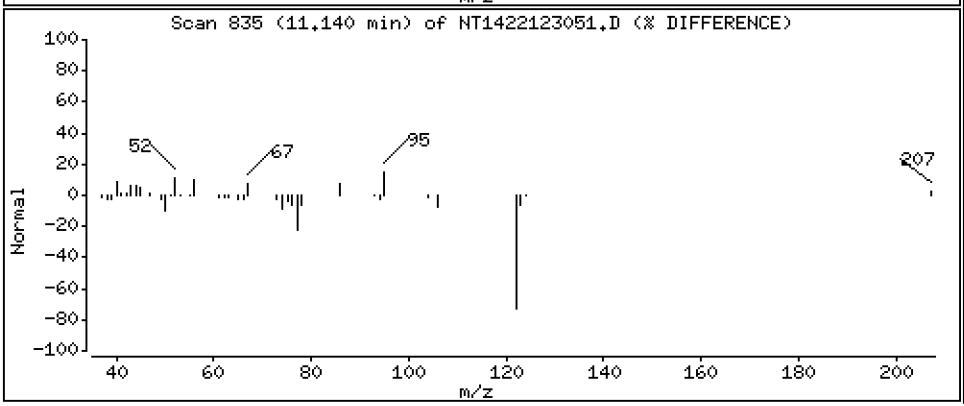












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

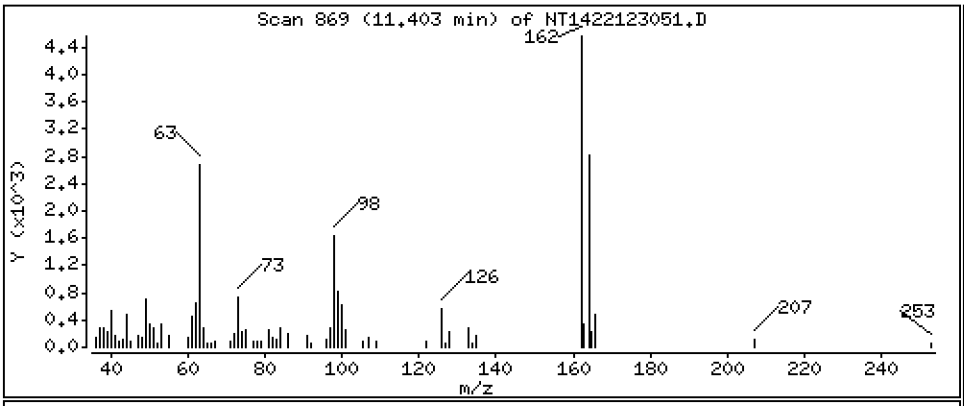
Operator: VTS

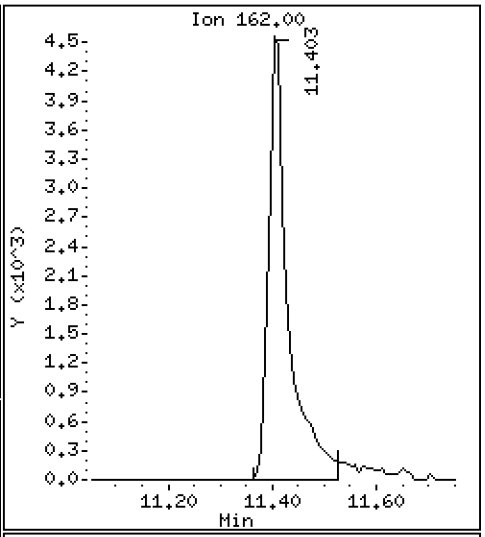
Column phase: ZB-5msi

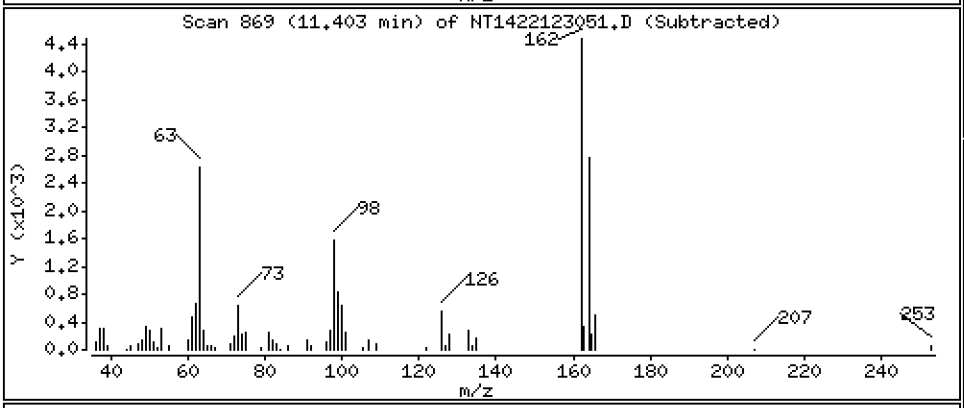
Column diameter: 0.25

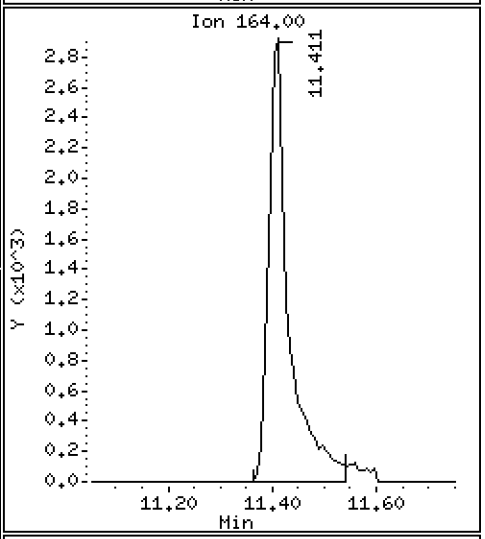
25 2,4-Dichlorophenol

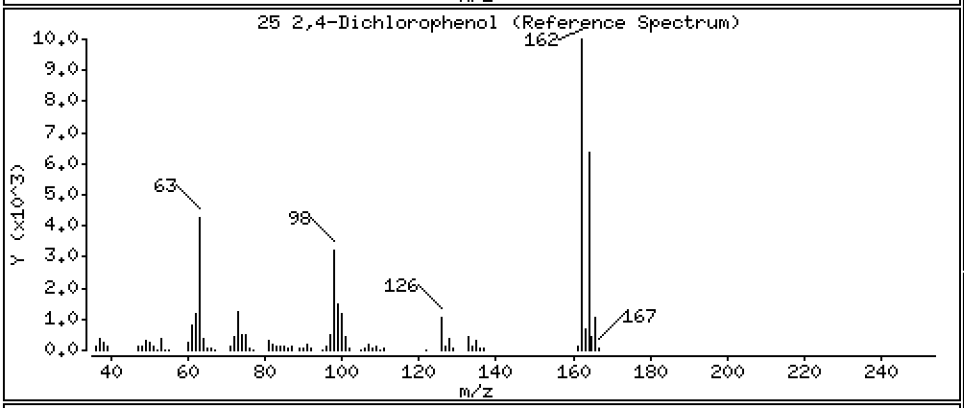
Concentration: 0.4132 ug/mL

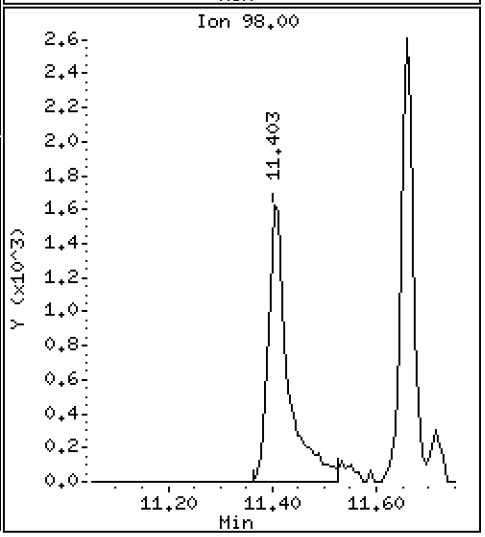


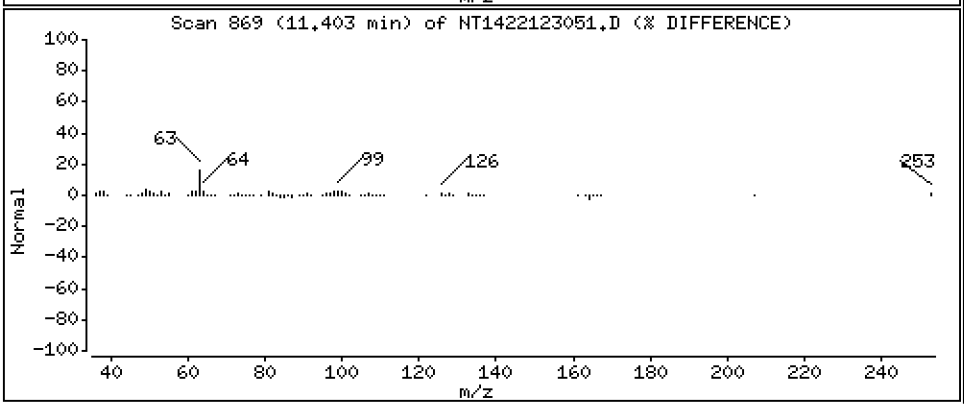












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

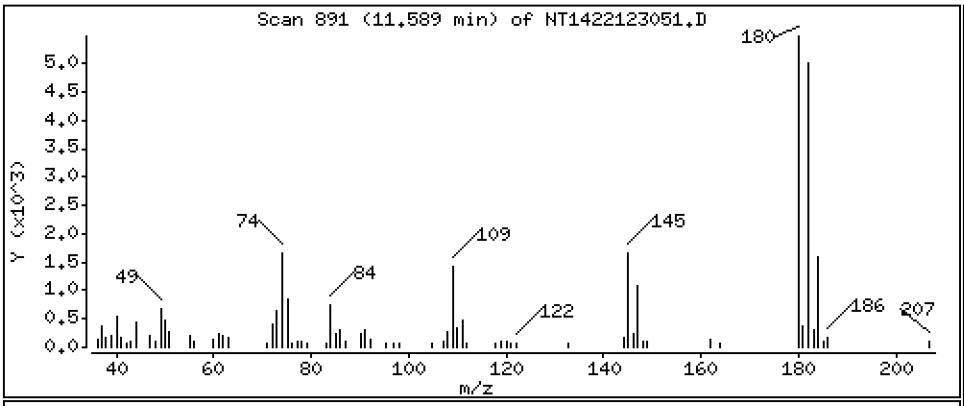
Operator: VTS

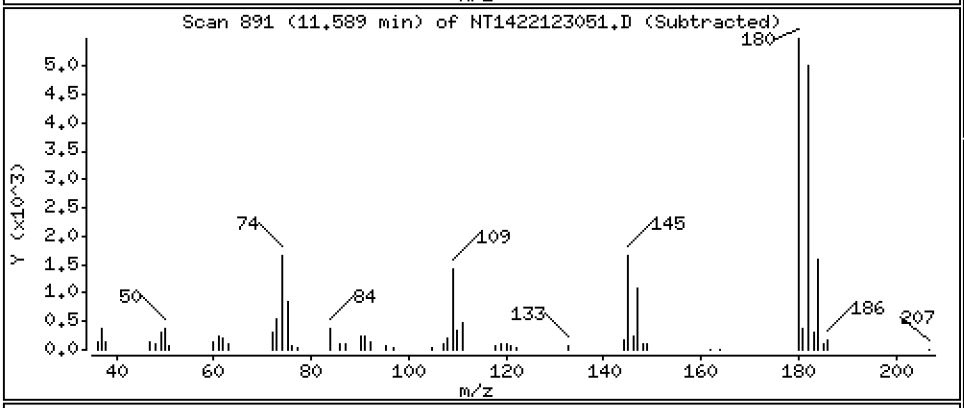
Column phase: ZB-5msi

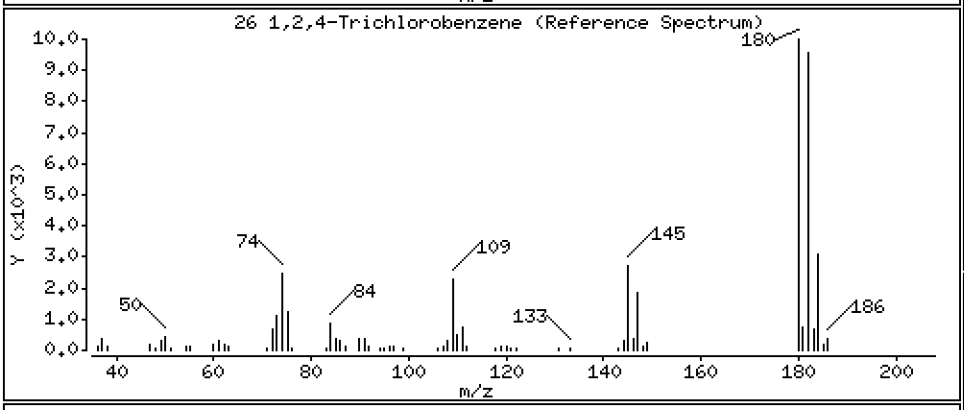
Column diameter: 0.25

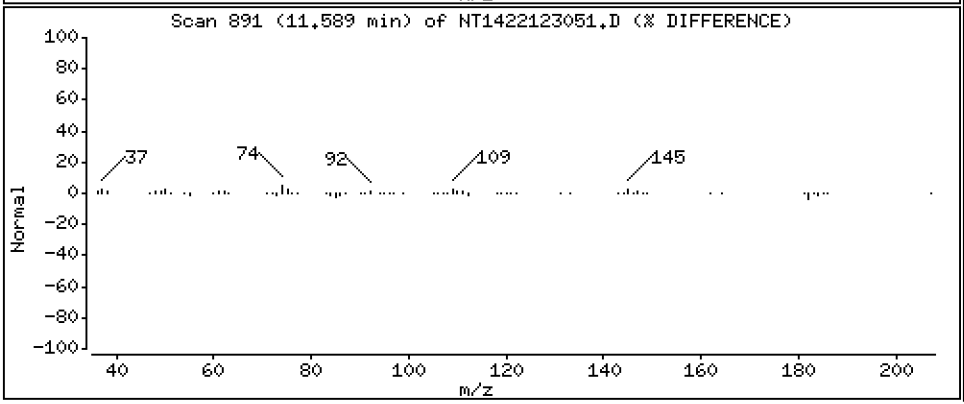
26 1,2,4-Trichlorobenzene

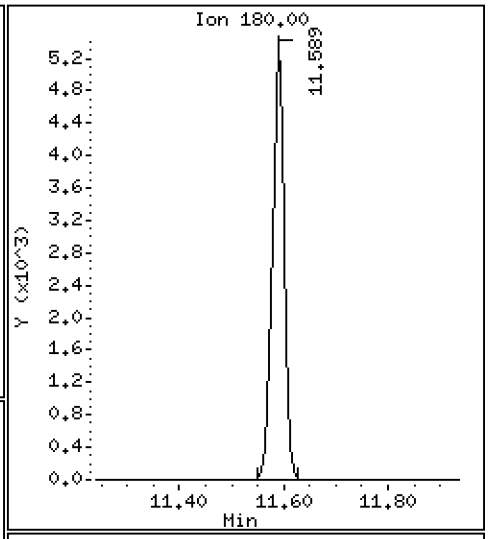
Concentration: 0.2422 ug/mL

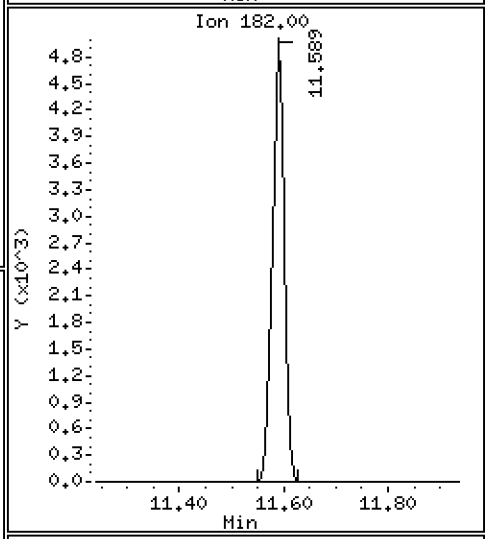


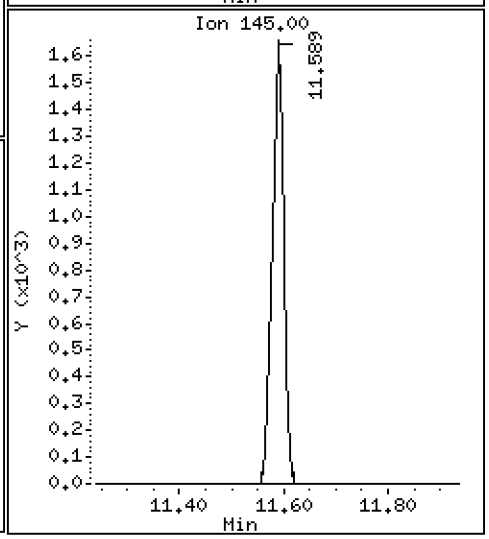












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

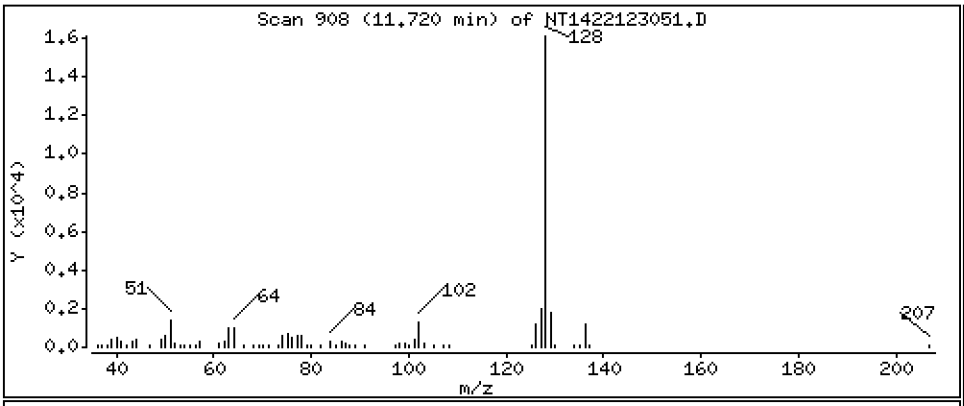
Operator: VTS

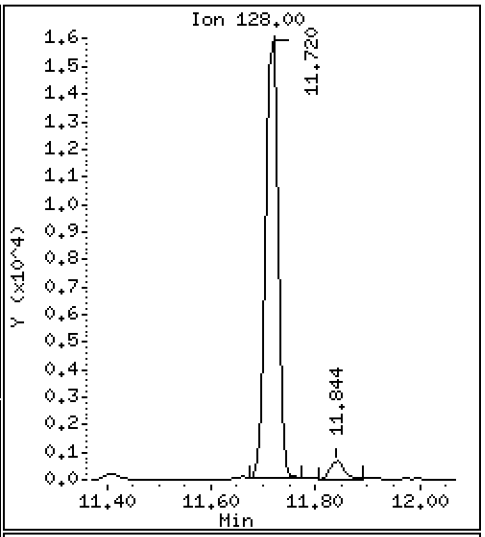
Column phase: ZB-5msi

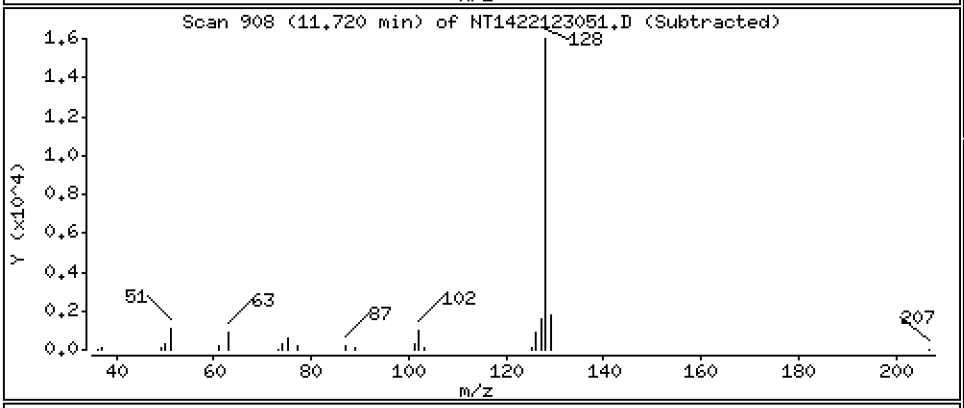
Column diameter: 0.25

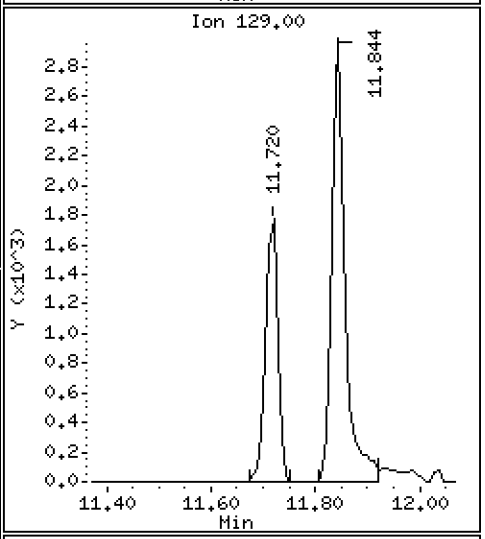
28 Naphthalene

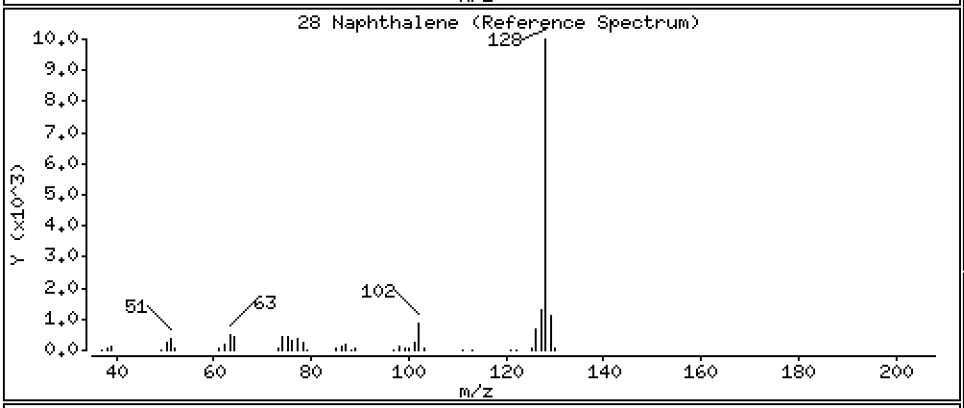
Concentration: 0.2377 ug/mL

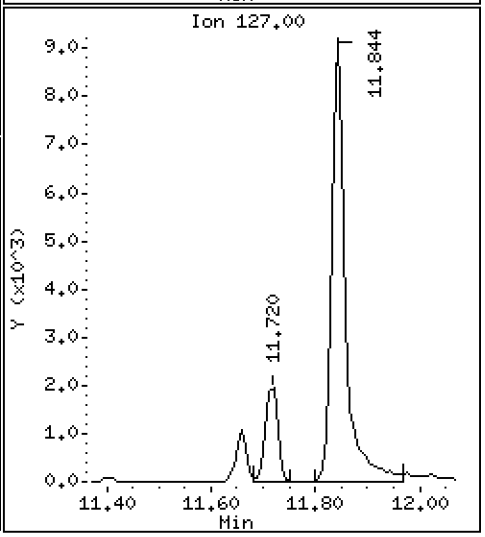


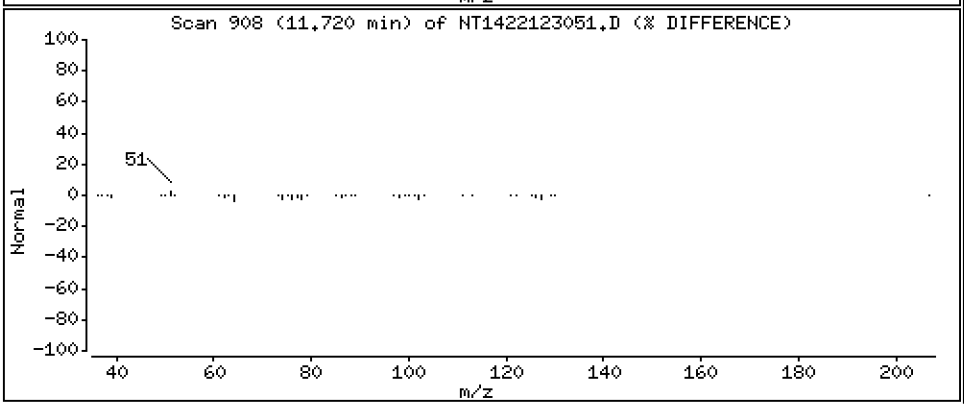












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

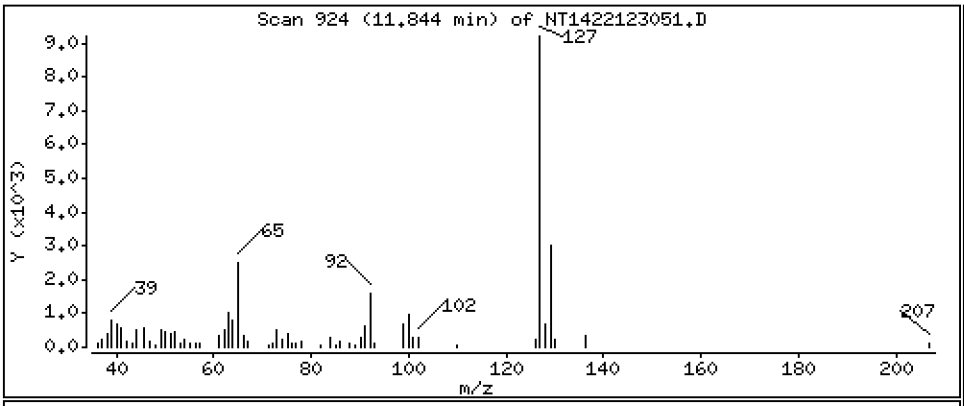
Operator: VTS

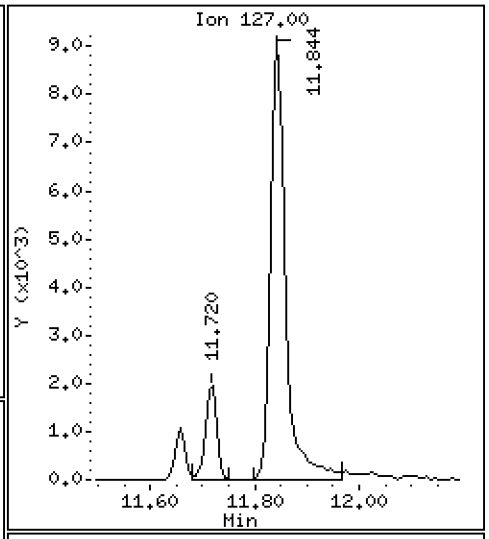
Column phase: ZB-5msi

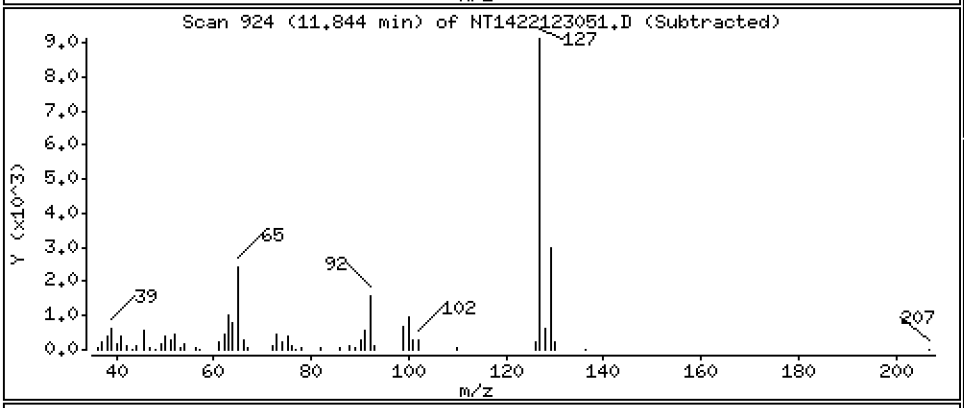
Column diameter: 0.25

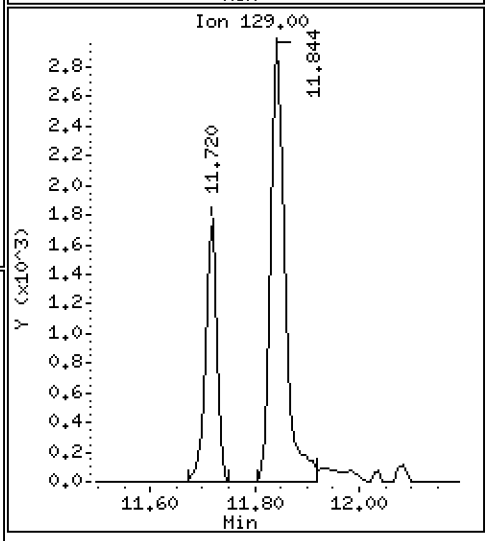
29 4-Chloroaniline

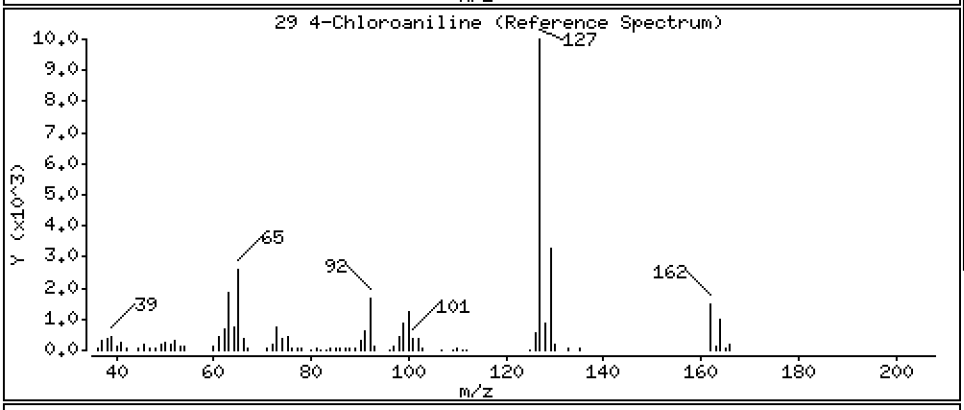
Concentration: 0.4058 ug/mL

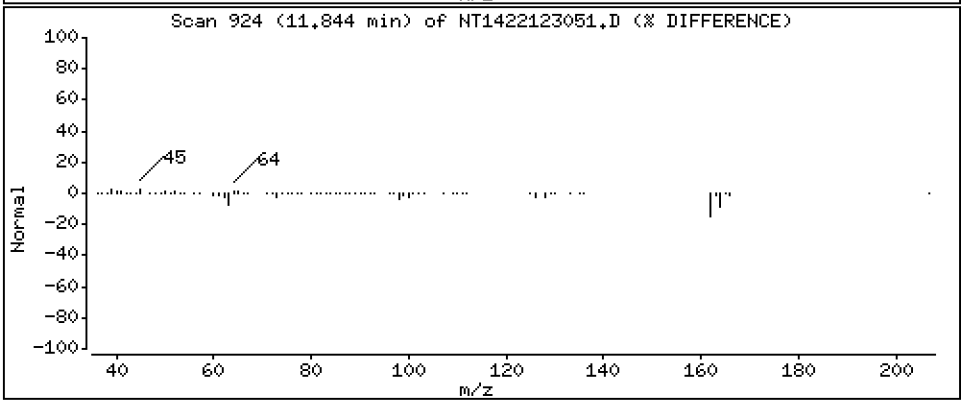












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

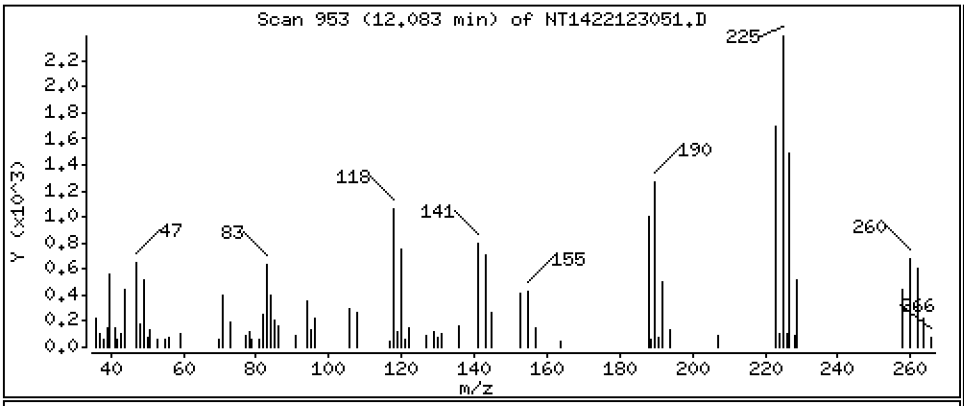
Operator: VTS

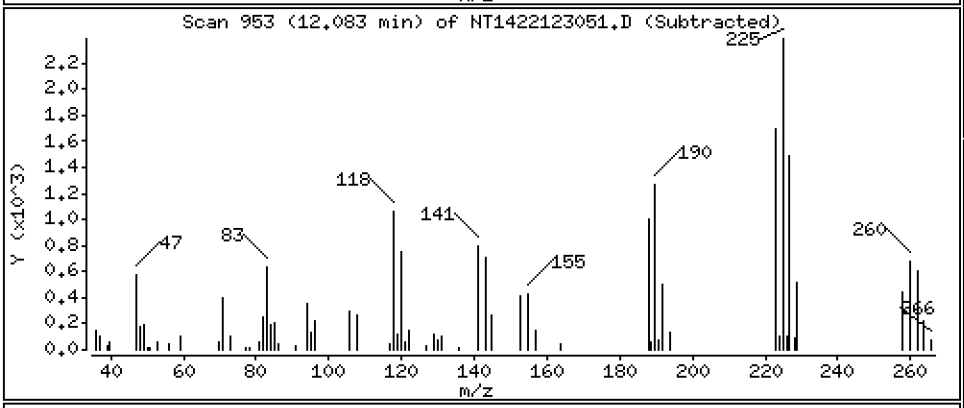
Column phase: ZB-5msi

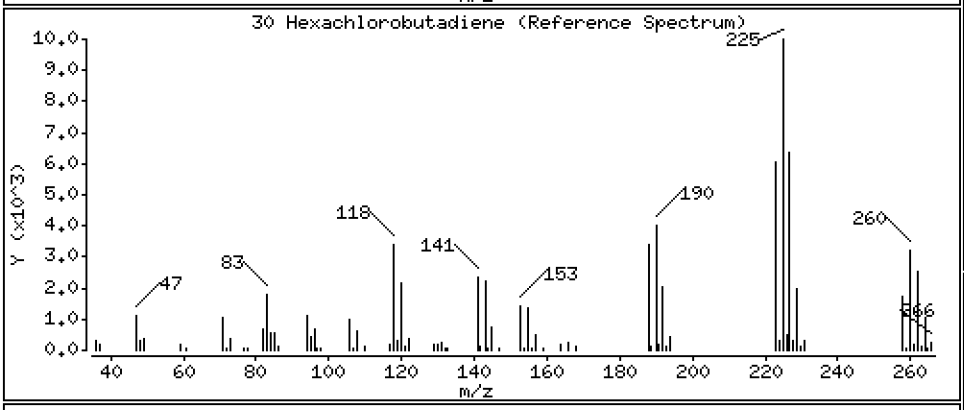
Column diameter: 0.25

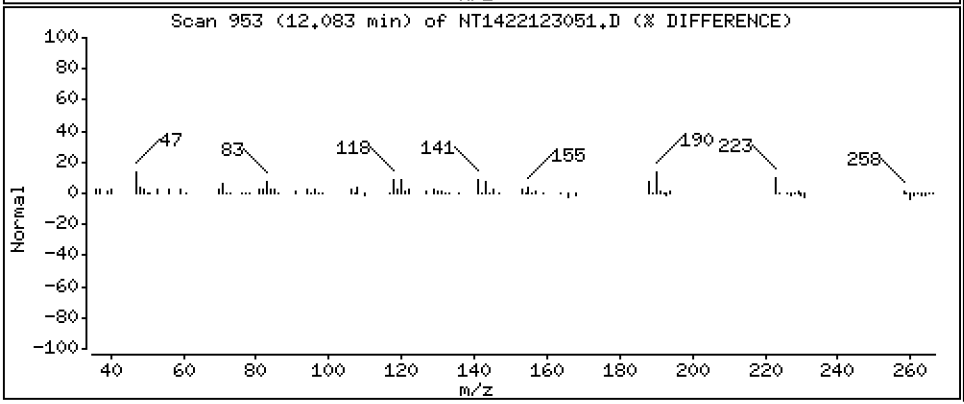
30 Hexachlorobutadiene

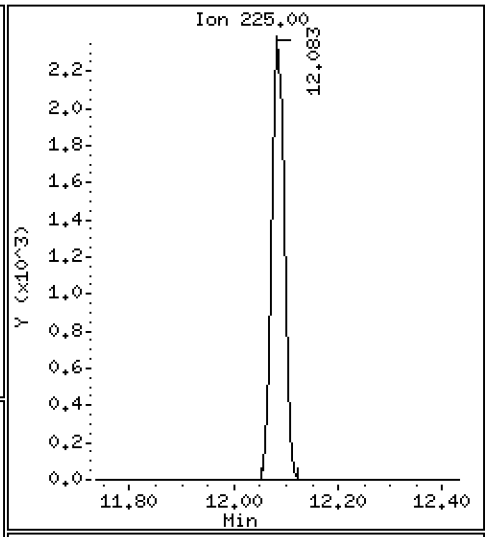
Concentration: 0.2223 ug/mL

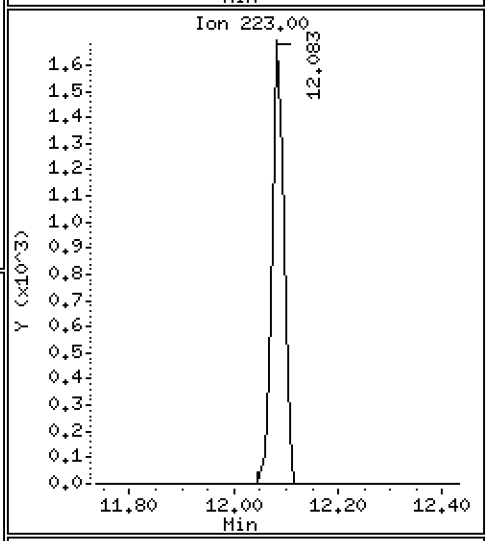


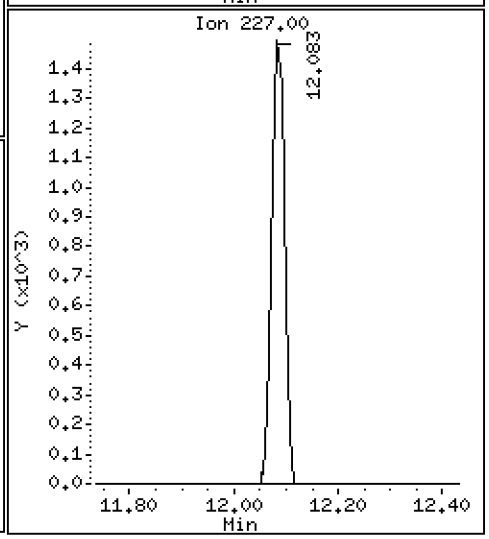












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

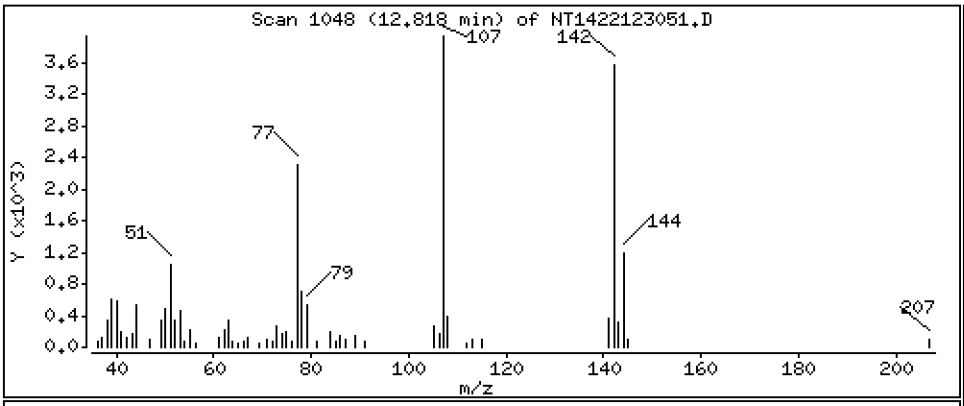
Operator: VTS

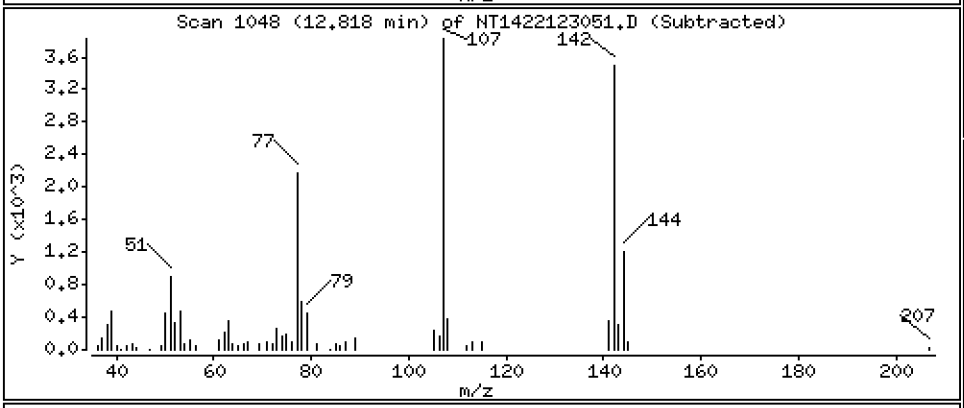
Column phase: ZB-5msi

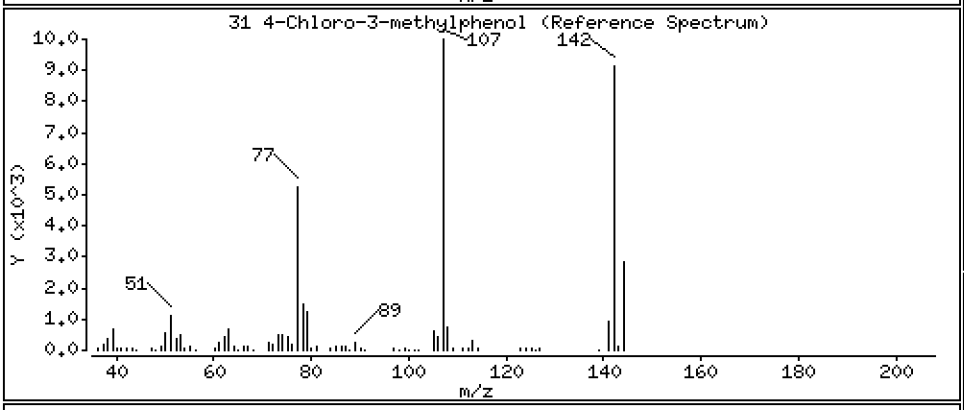
Column diameter: 0.25

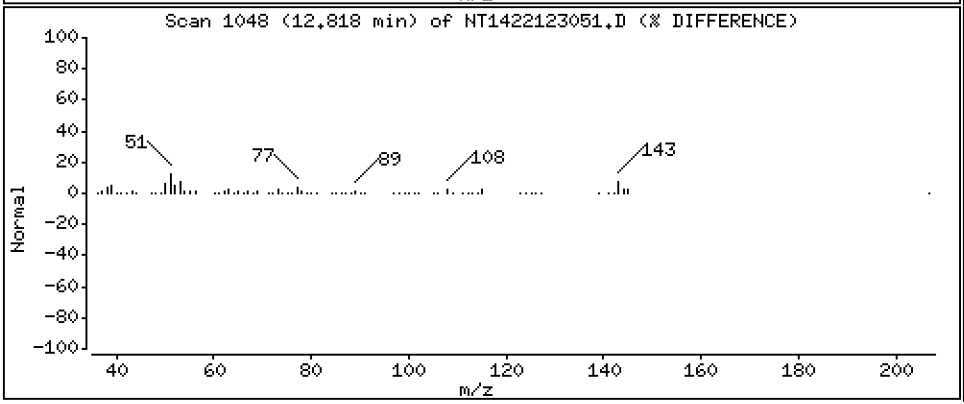
31 4-Chloro-3-methylphenol

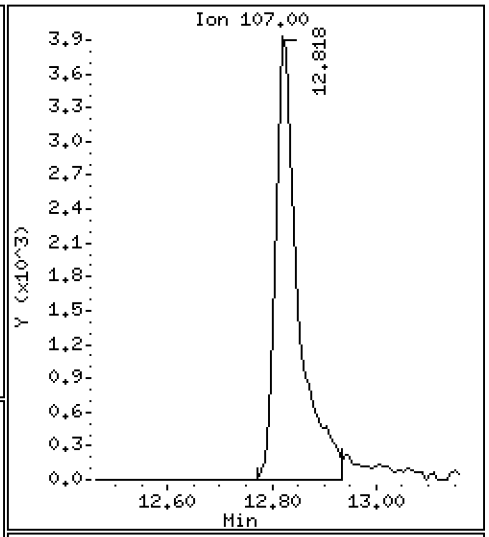
Concentration: 0.4010 ug/mL

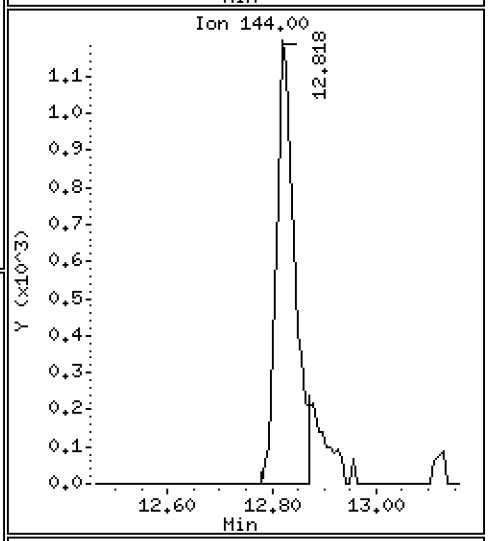


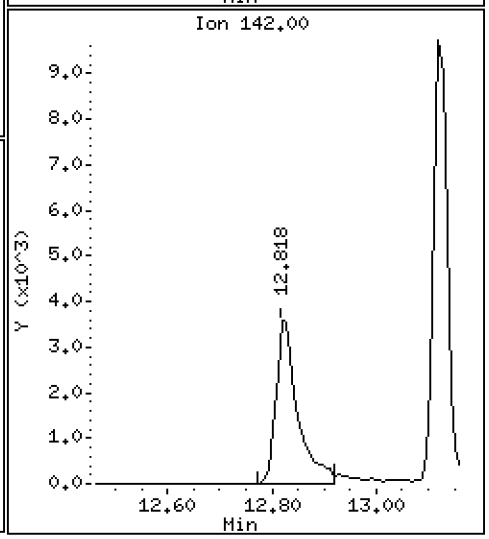












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

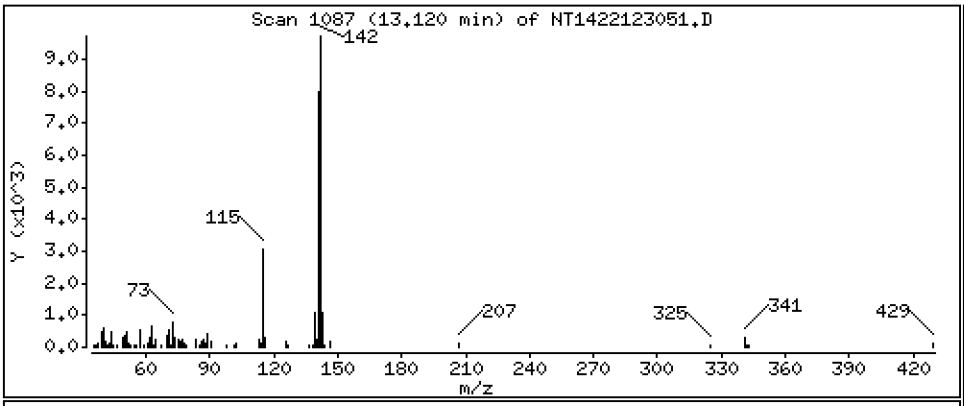
Operator: VTS

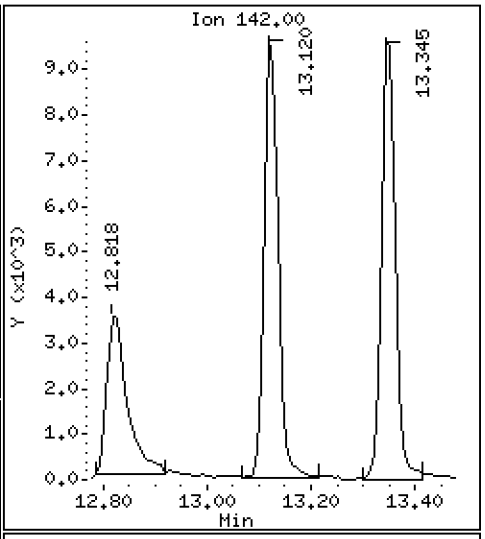
Column phase: ZB-5msi

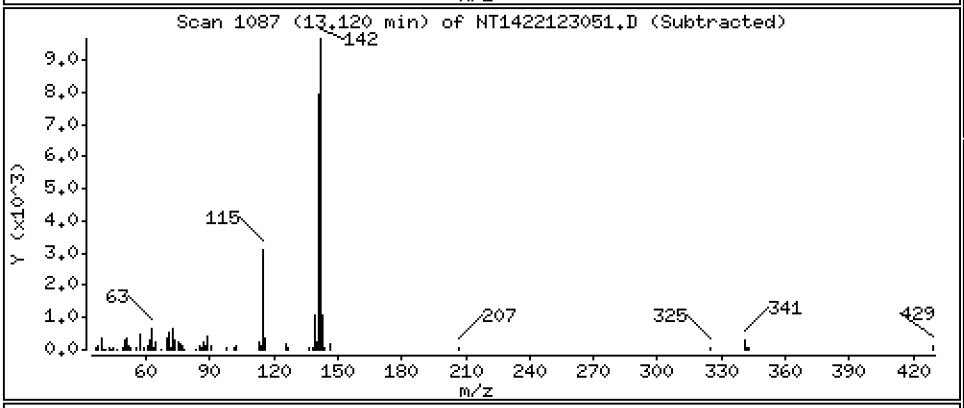
Column diameter: 0.25

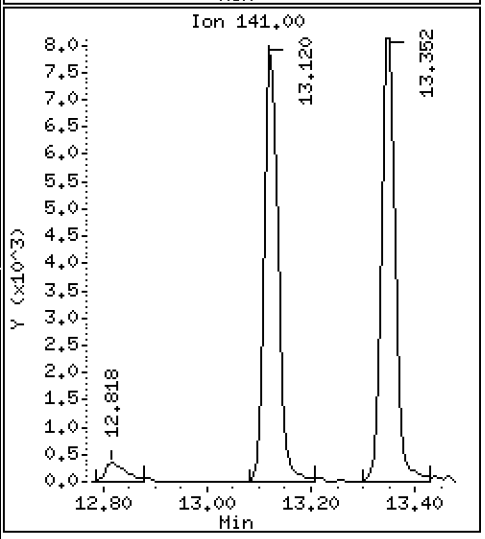
32 2-Methylnaphthalene

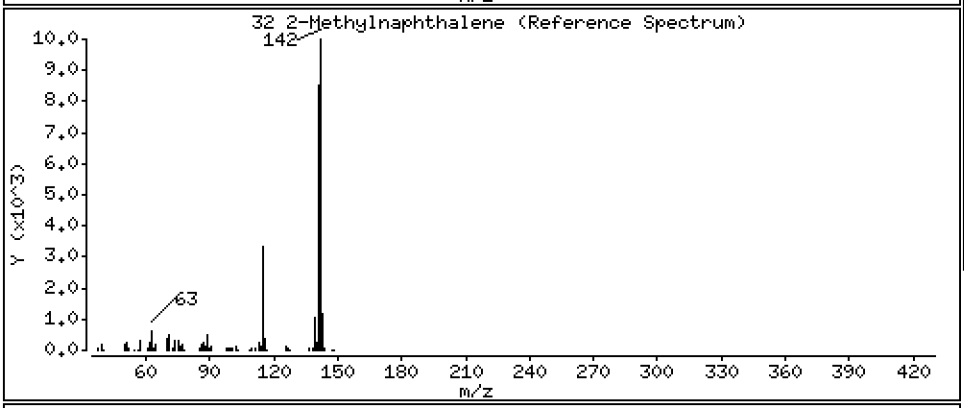
Concentration: 0.2231 ug/mL

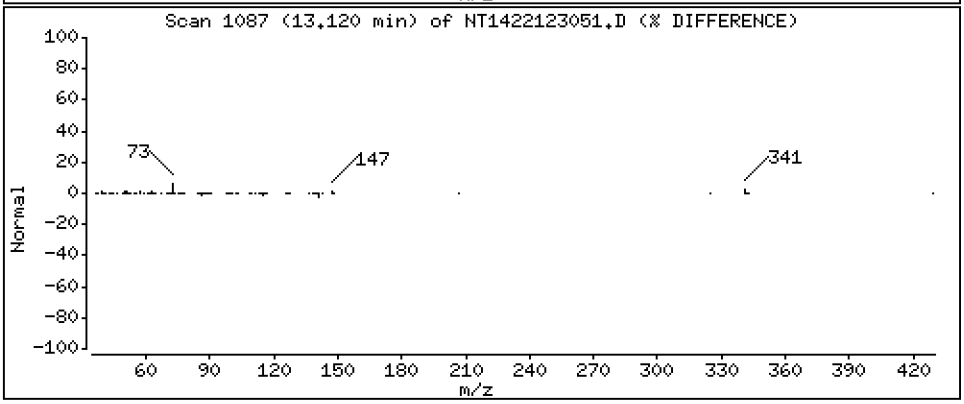












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

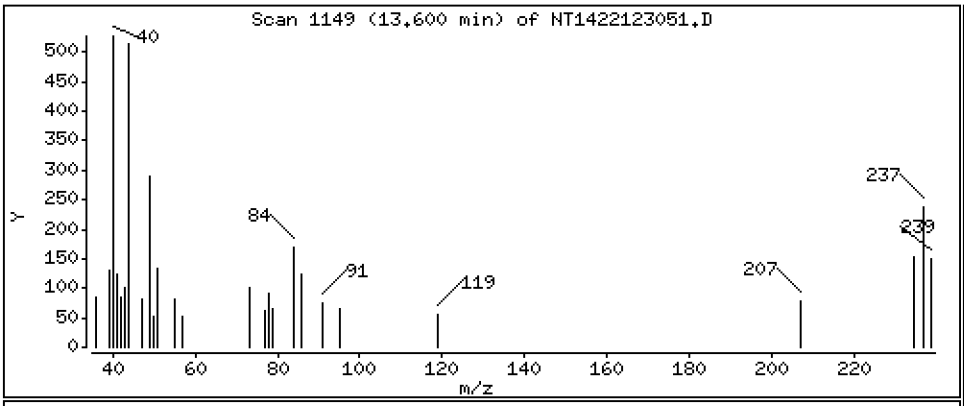
Operator: VTS

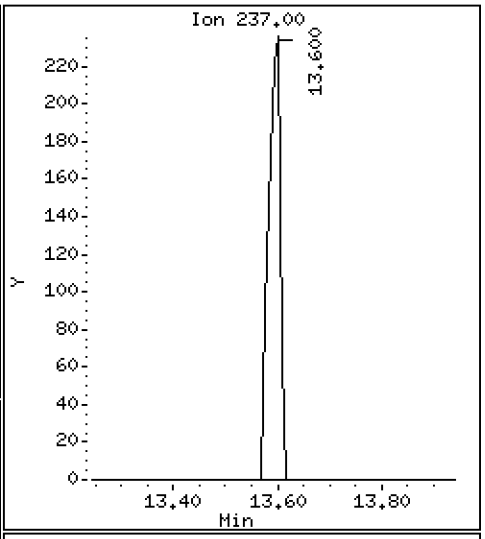
Column phase: ZB-5msi

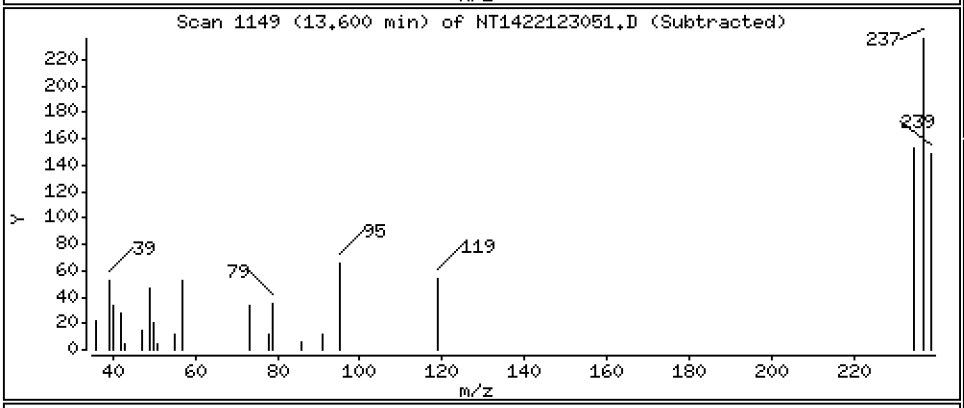
Column diameter: 0.25

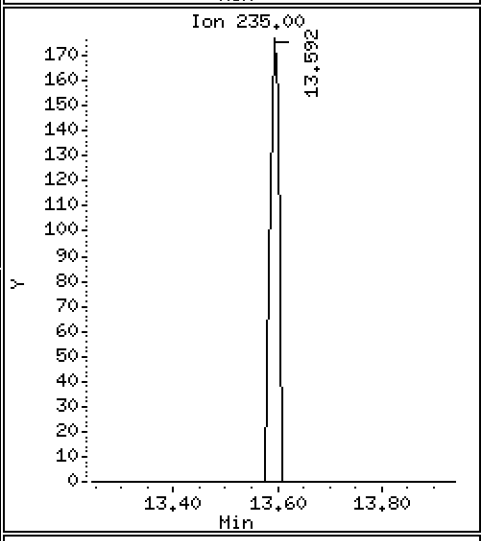
33 Hexachlorocyclopentadiene

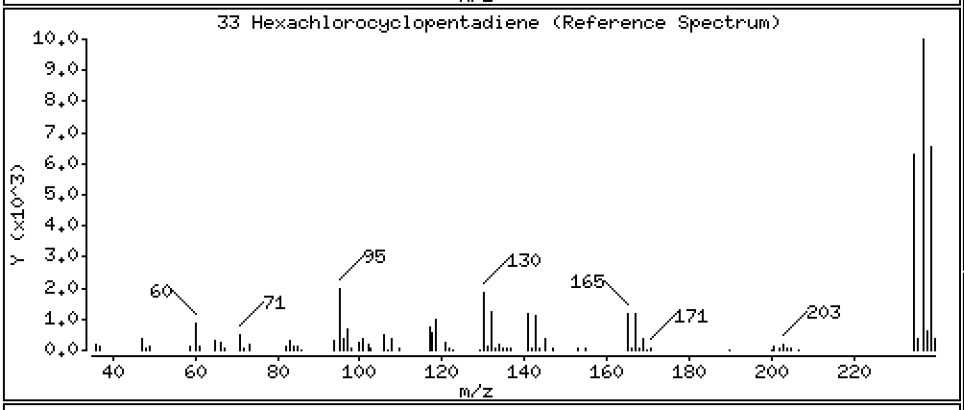
Concentration: 0.02150 ug/mL

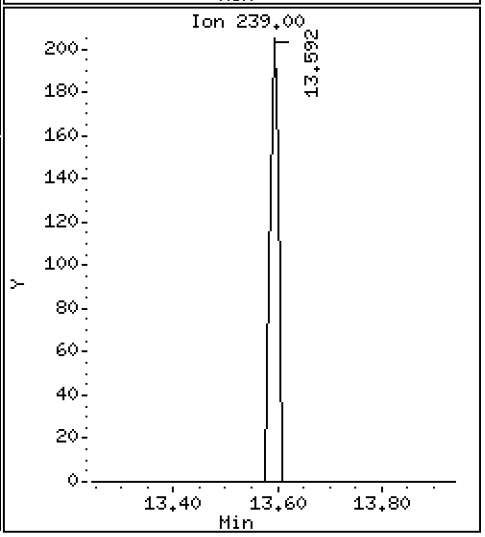


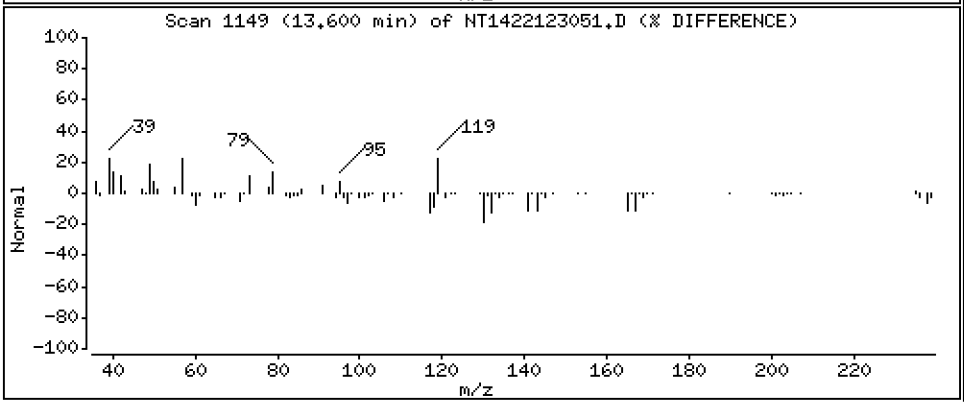












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

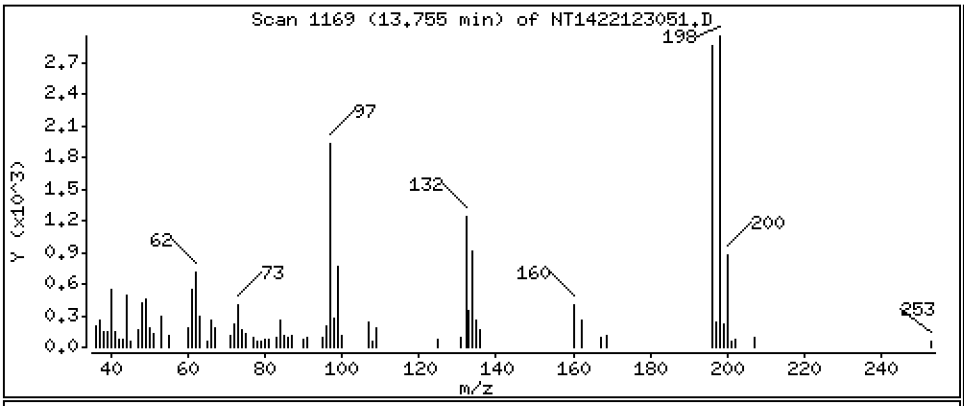
Operator: VTS

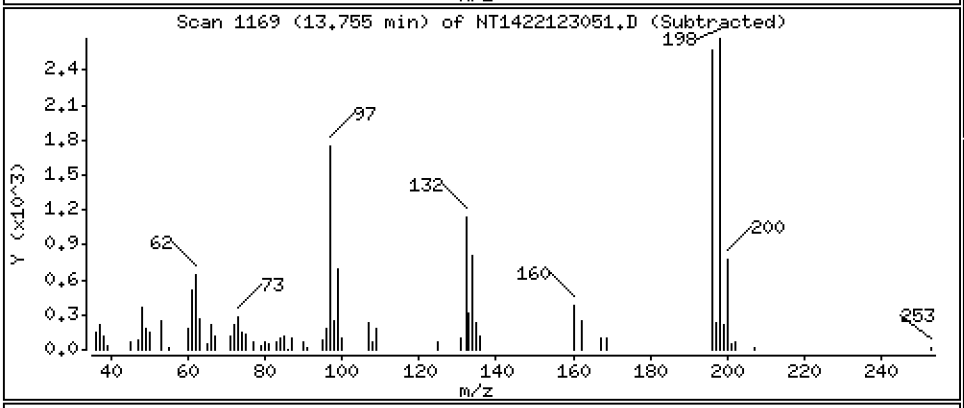
Column phase: ZB-5msi

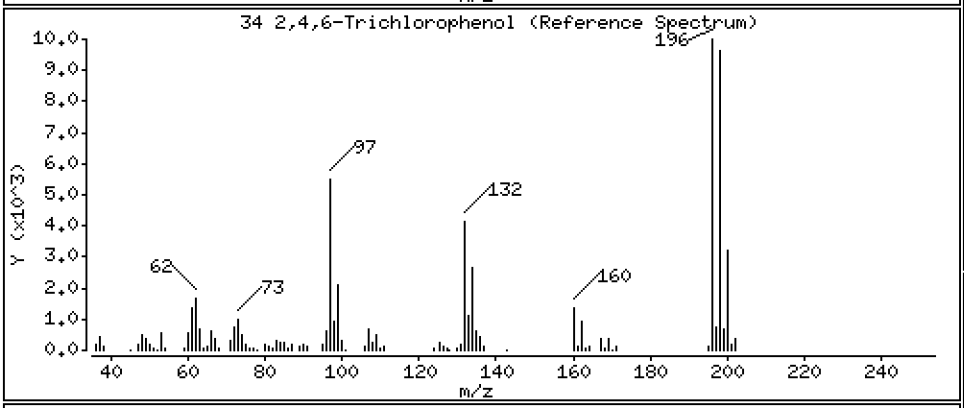
Column diameter: 0.25

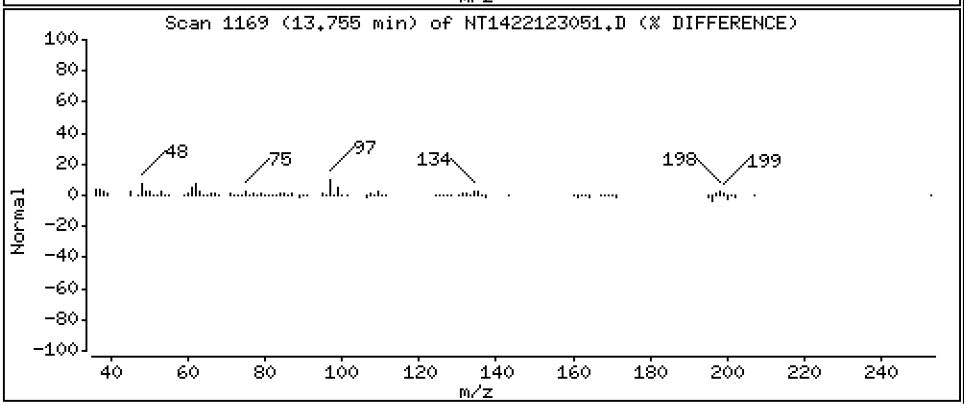
34 2,4,6-Trichlorophenol

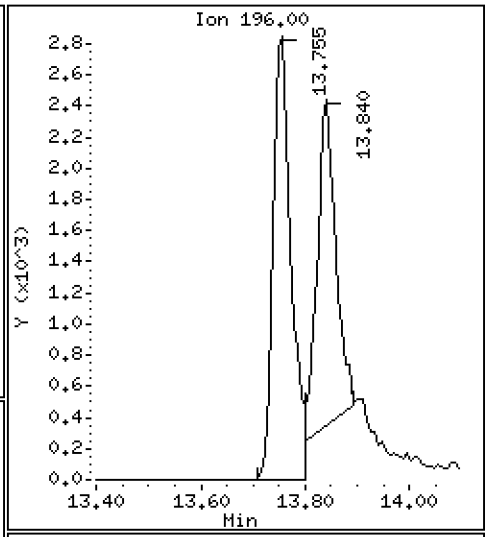
Concentration: 0.3746 ug/mL

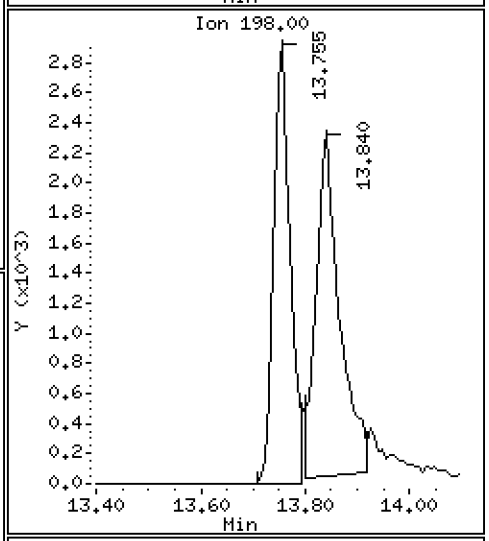


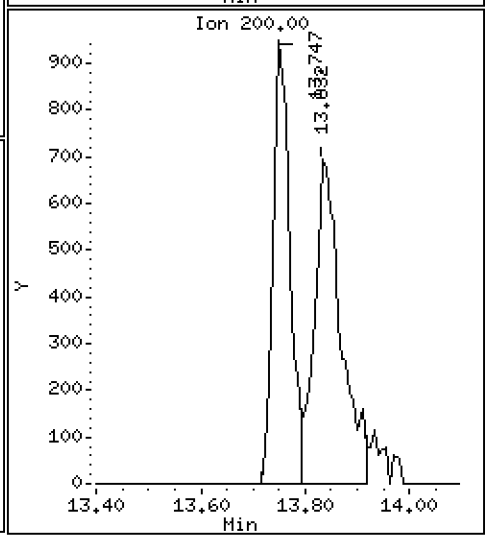












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

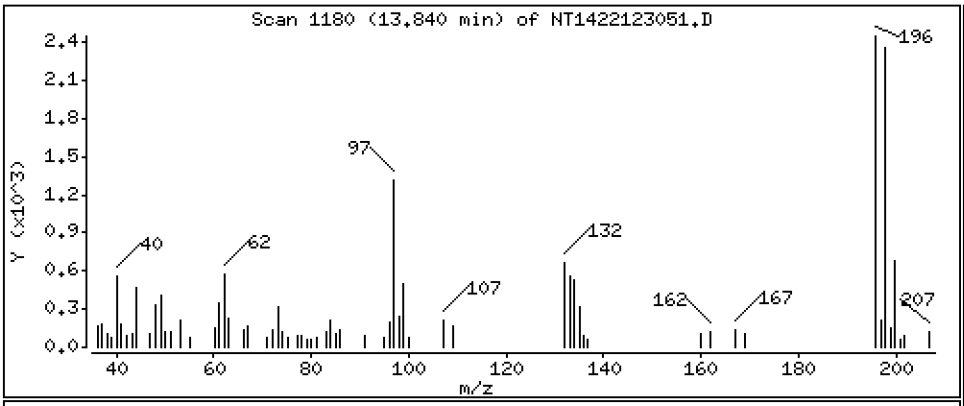
Operator: VTS

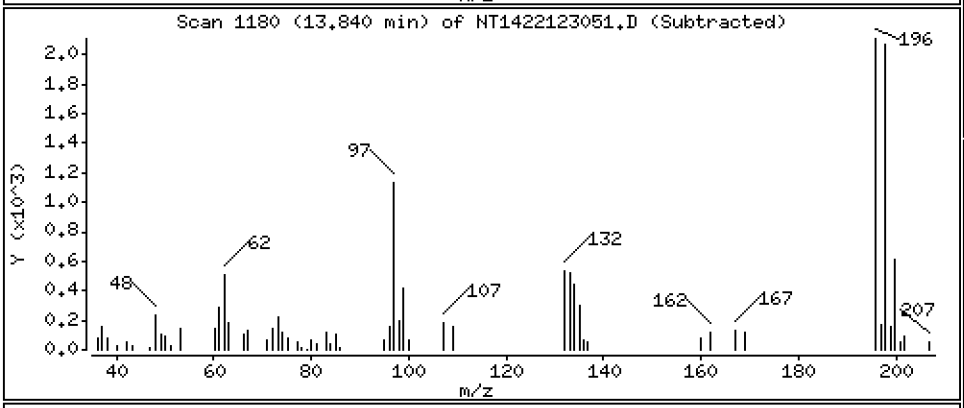
Column phase: ZB-5msi

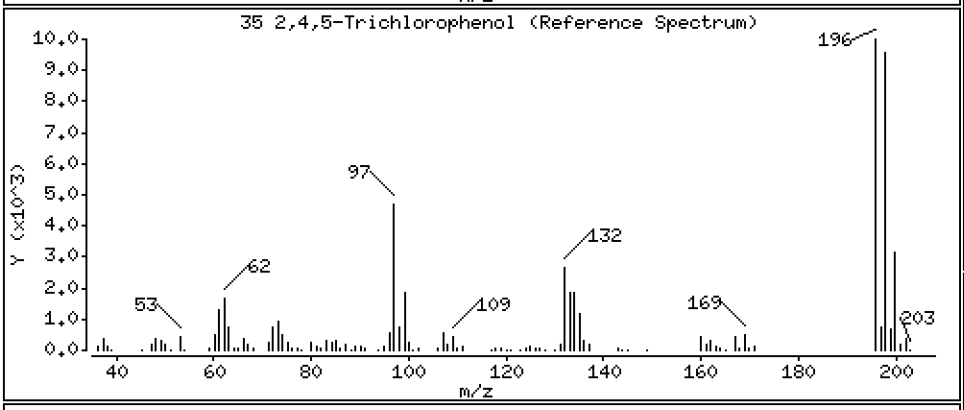
Column diameter: 0.25

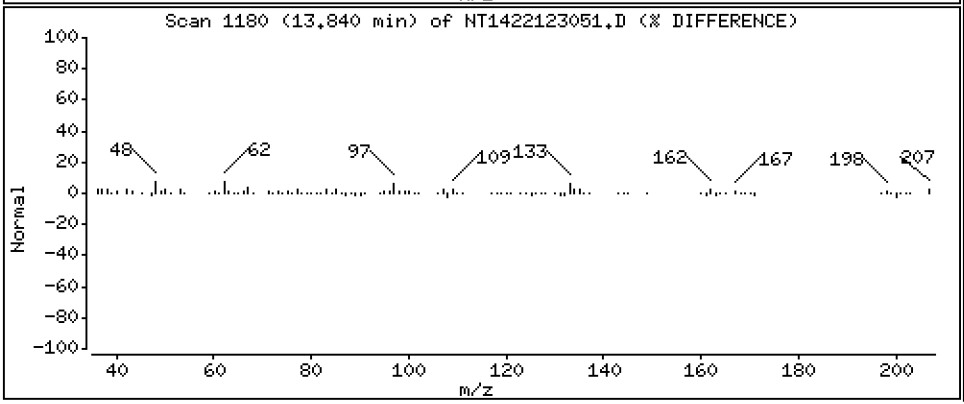
35 2,4,5-Trichlorophenol

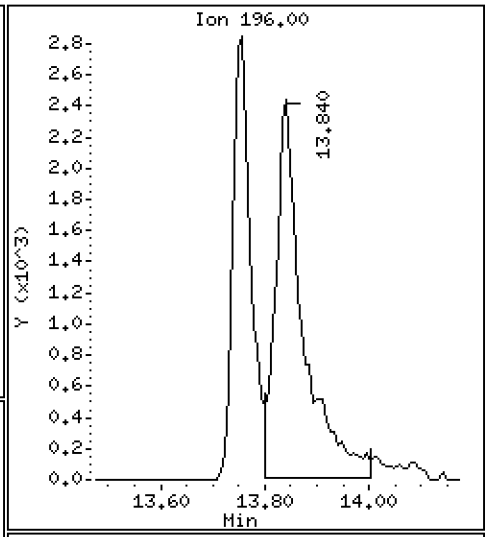
Concentration: 0.4316 ug/mL

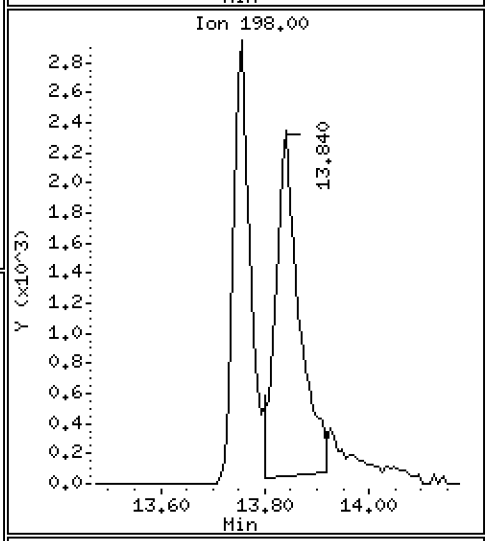


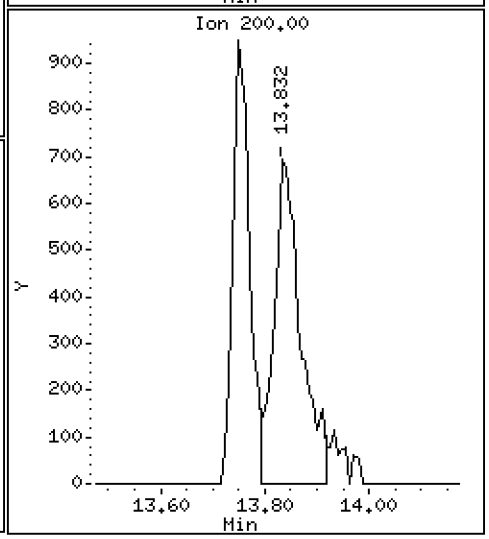












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

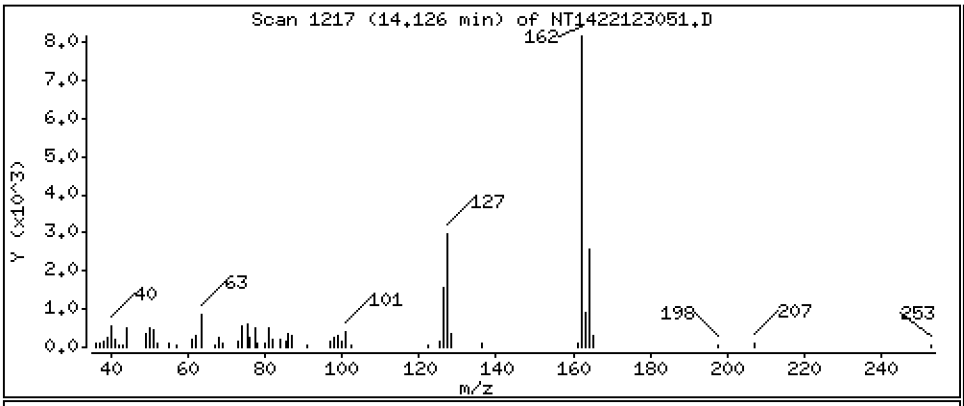
Operator: VTS

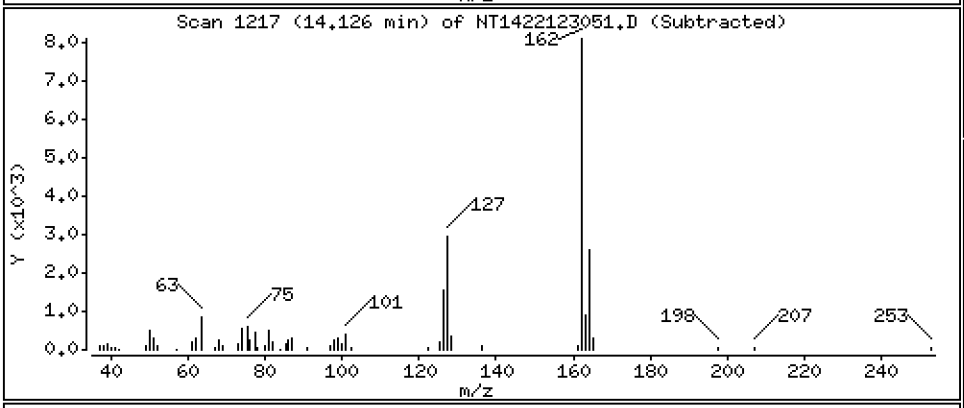
Column phase: ZB-5msi

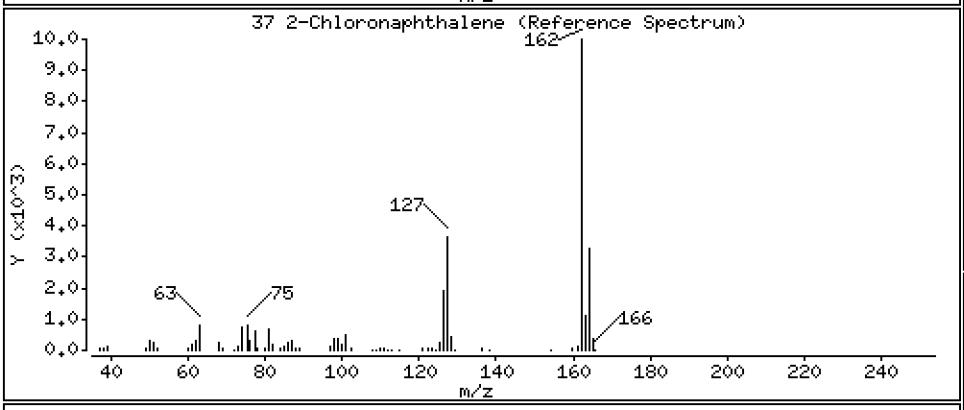
Column diameter: 0.25

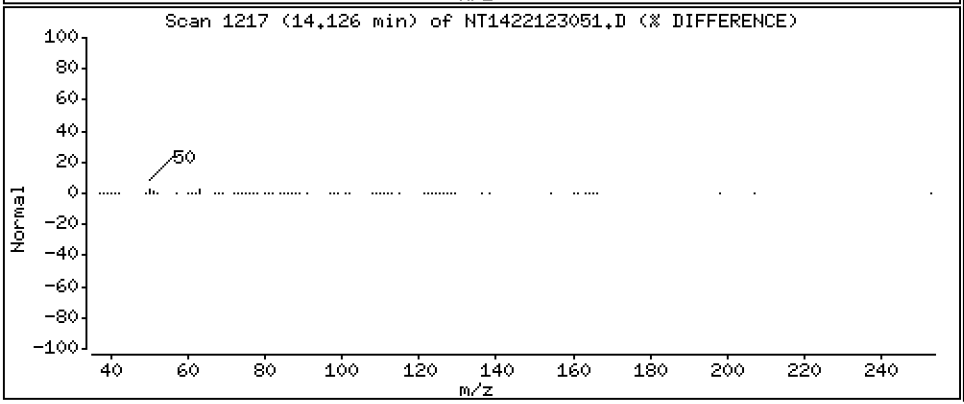
37 2-Chloronaphthalene

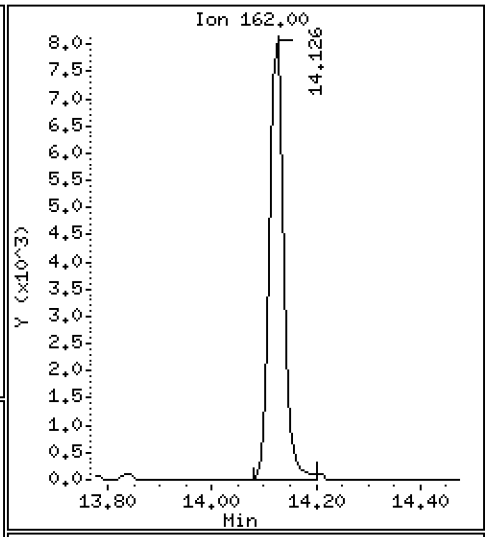
Concentration: 0.2372 ug/mL

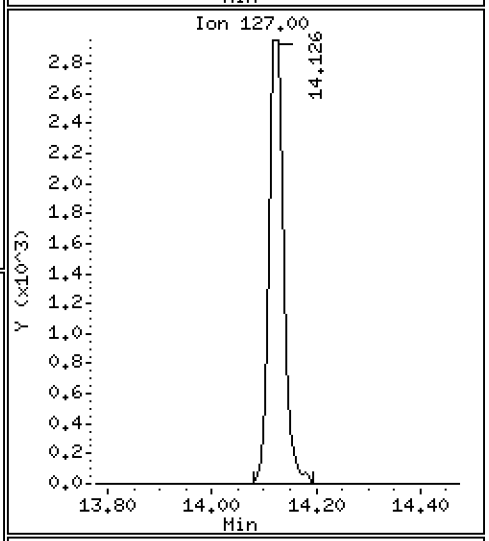


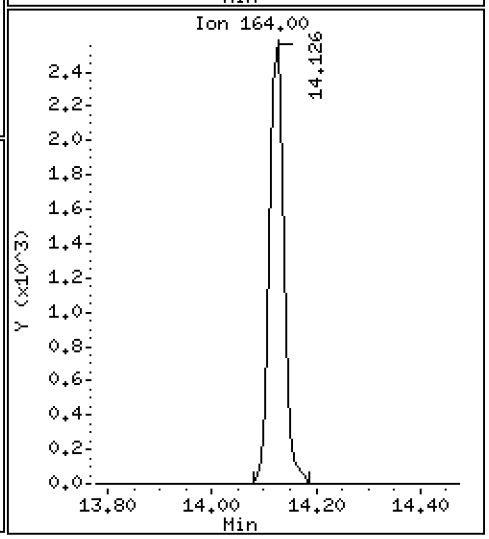












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

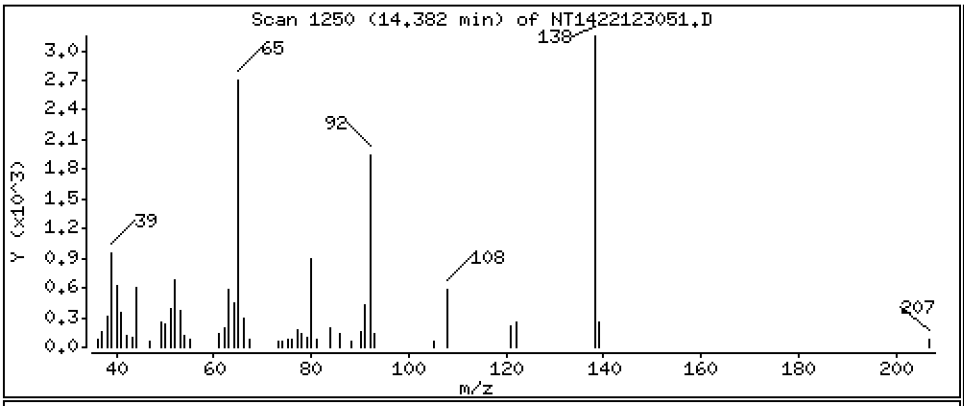
Operator: VTS

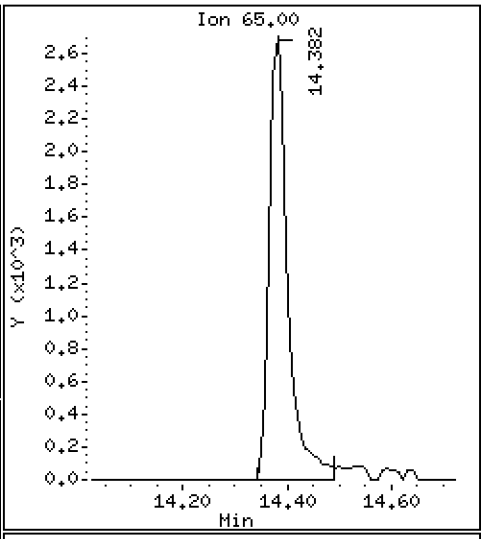
Column phase: ZB-5msi

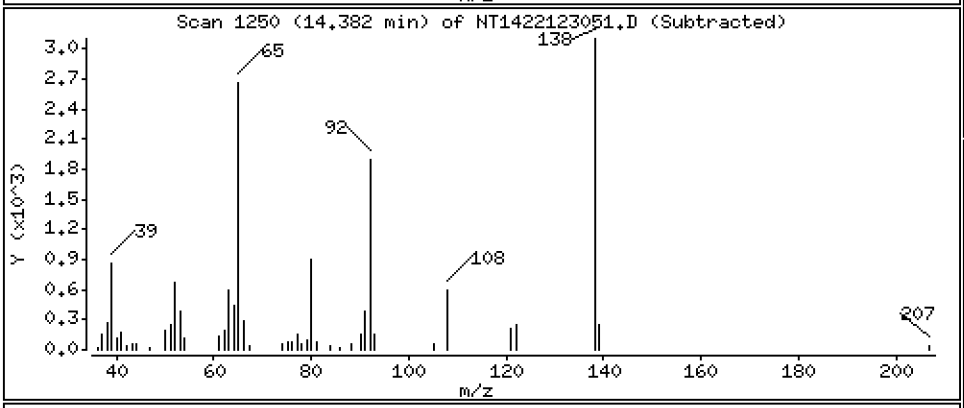
Column diameter: 0.25

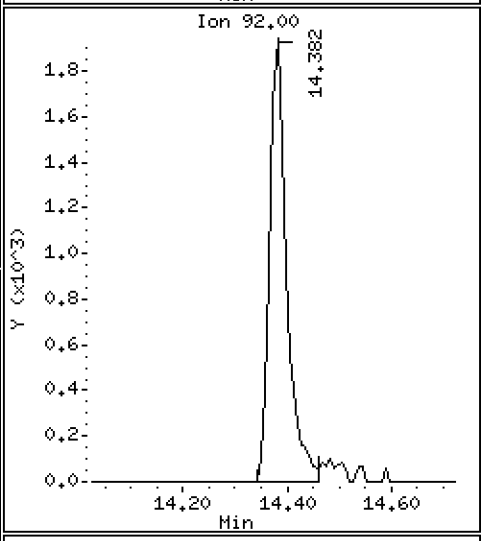
38 2-Nitroaniline

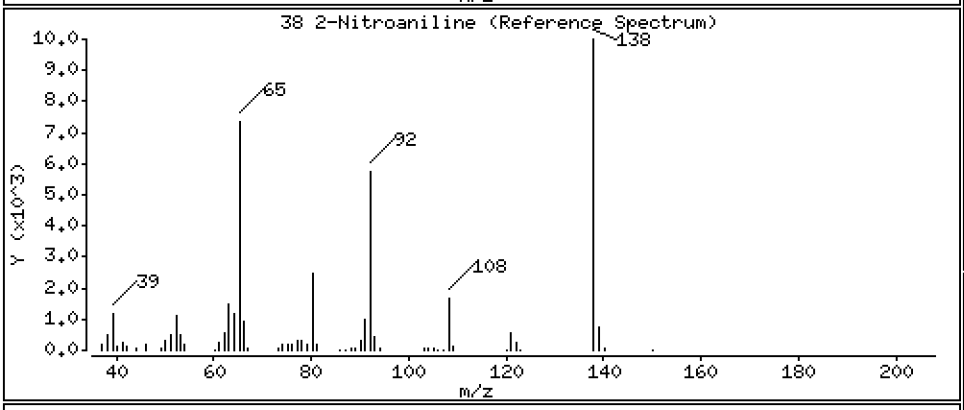
Concentration: 0.3972 ug/mL

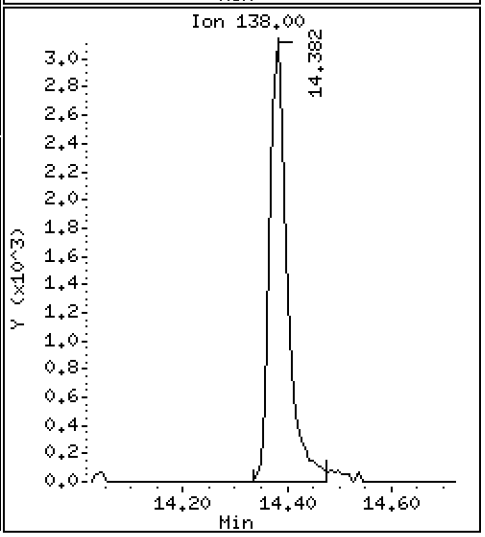


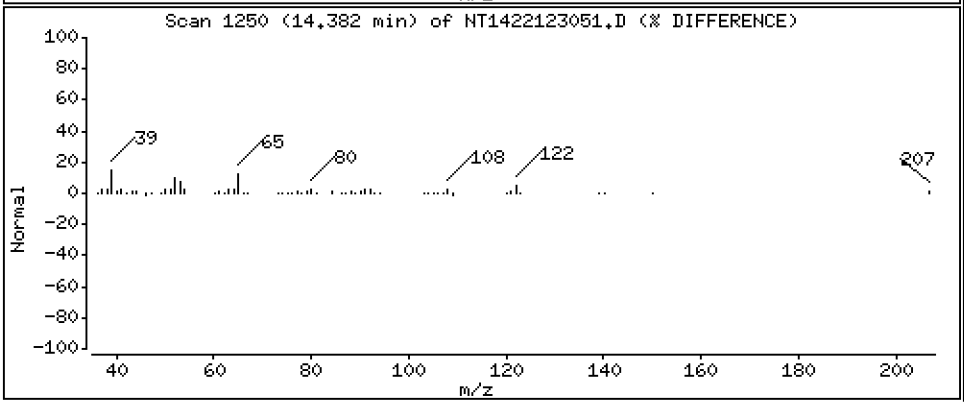












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

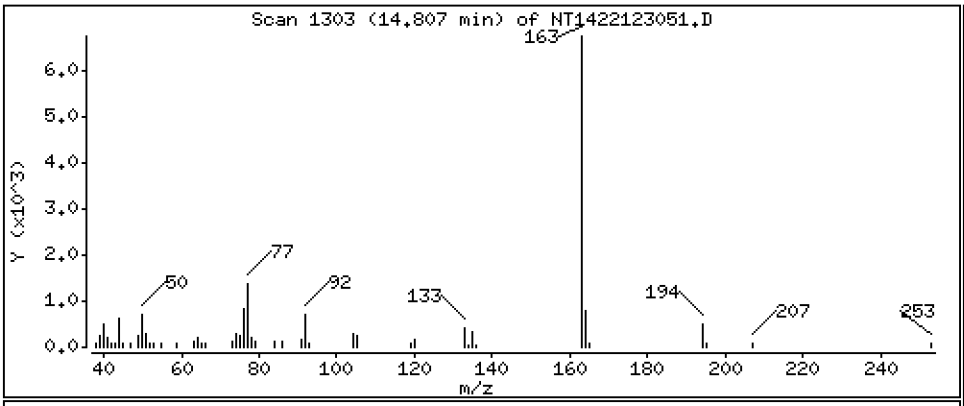
Operator: VTS

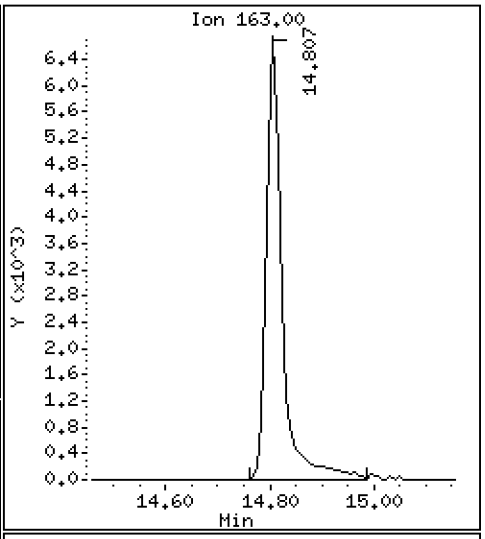
Column phase: ZB-5msi

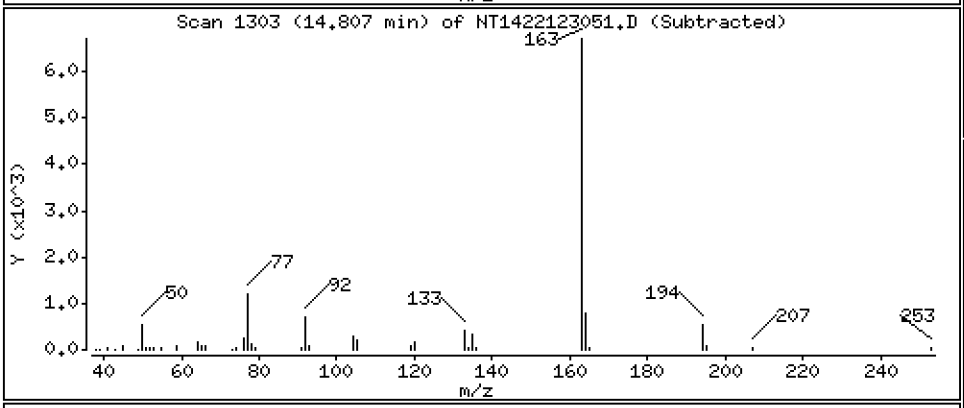
Column diameter: 0.25

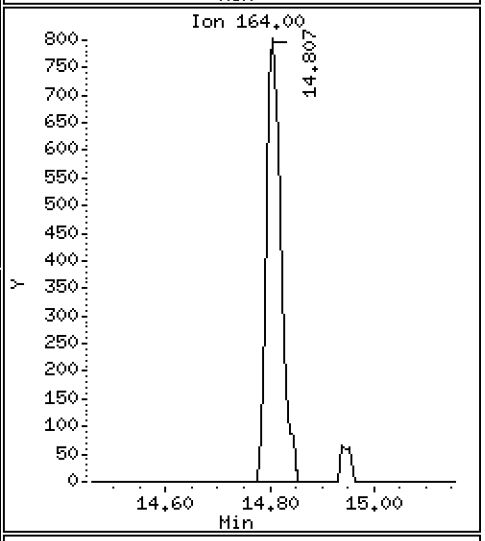
39 Dimethylphthalate

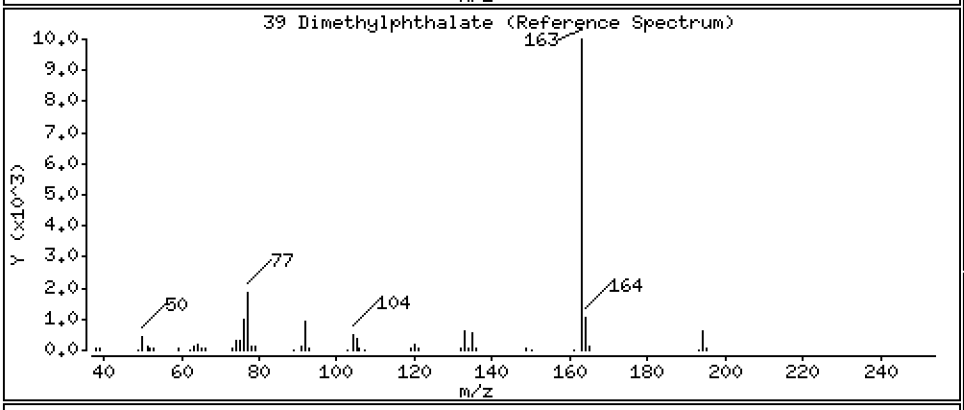
Concentration: 0.2231 ug/mL

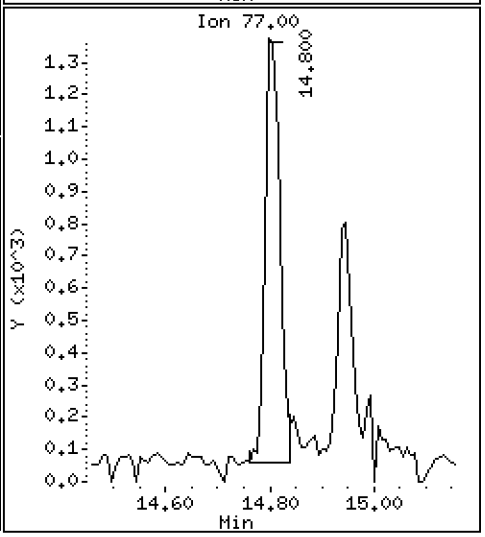


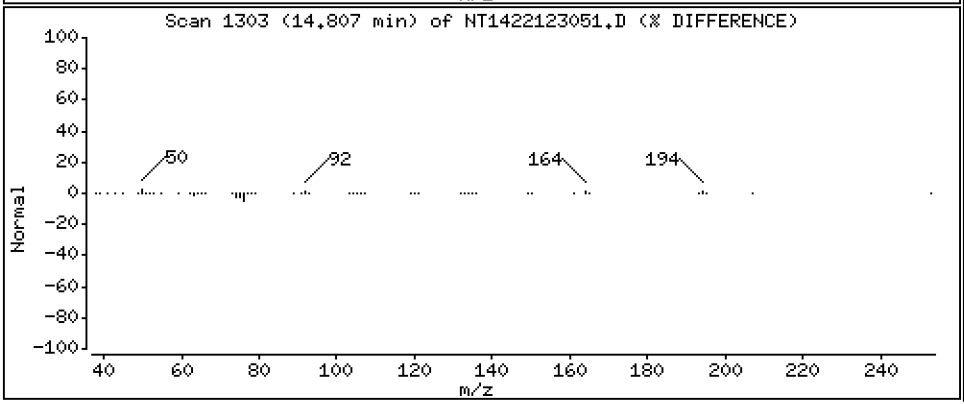












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

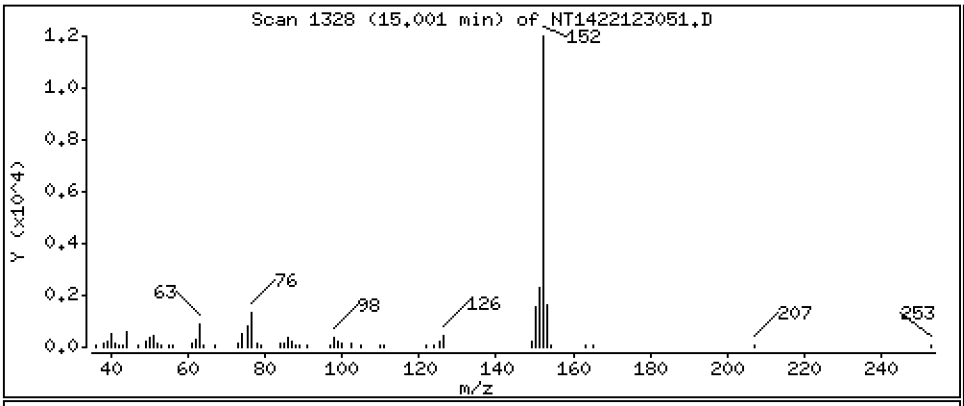
Operator: VTS

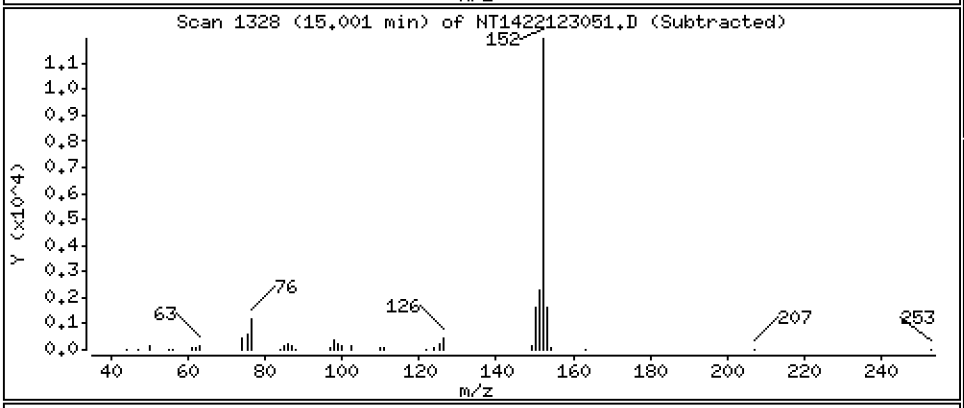
Column phase: ZB-5msi

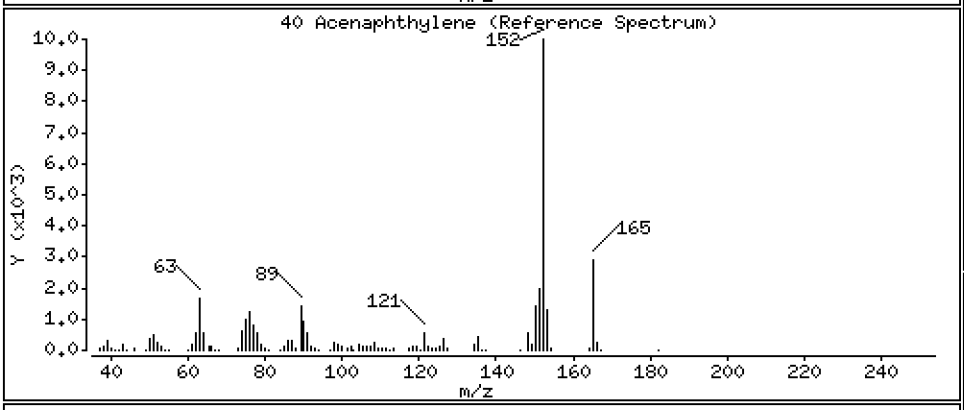
Column diameter: 0.25

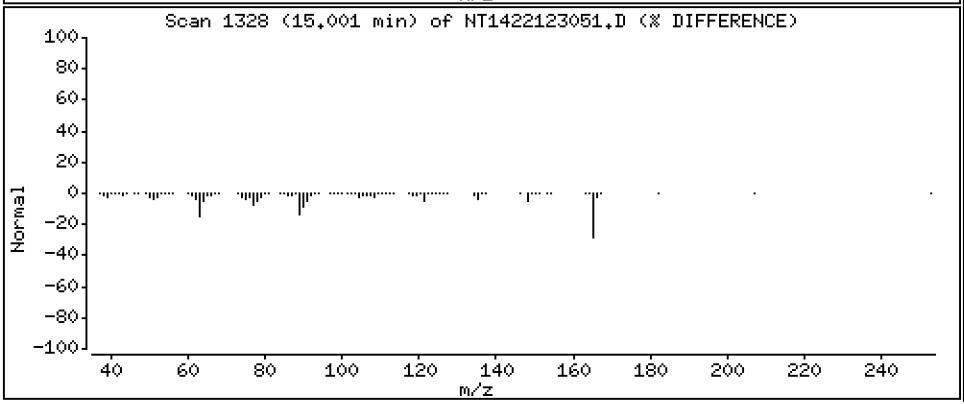
40 Acenaphthylene

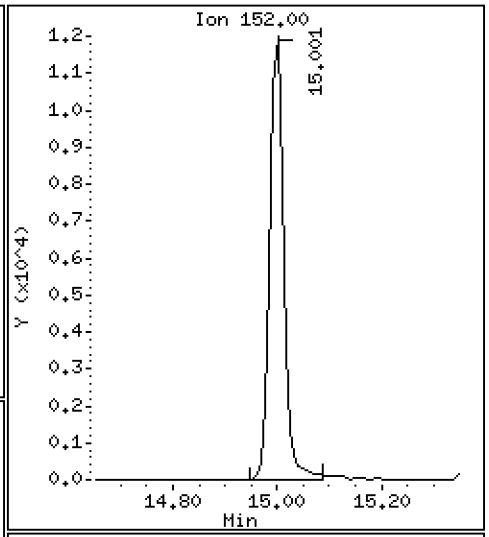
Concentration: 0.2256 ug/mL

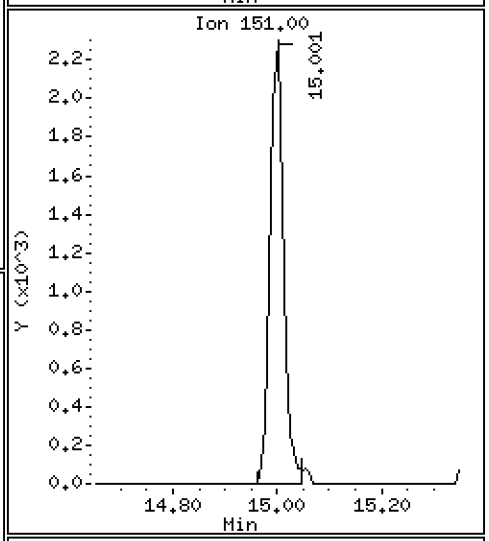


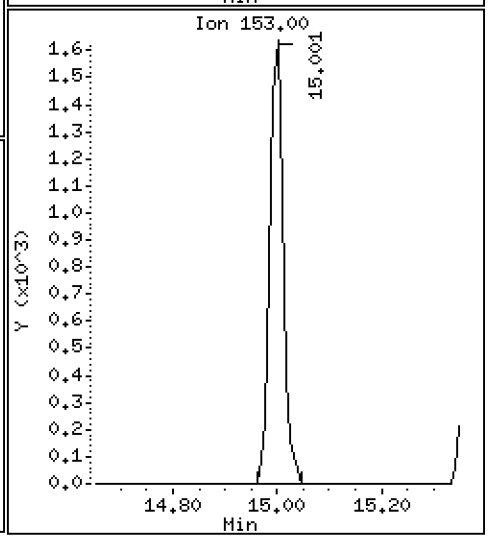












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

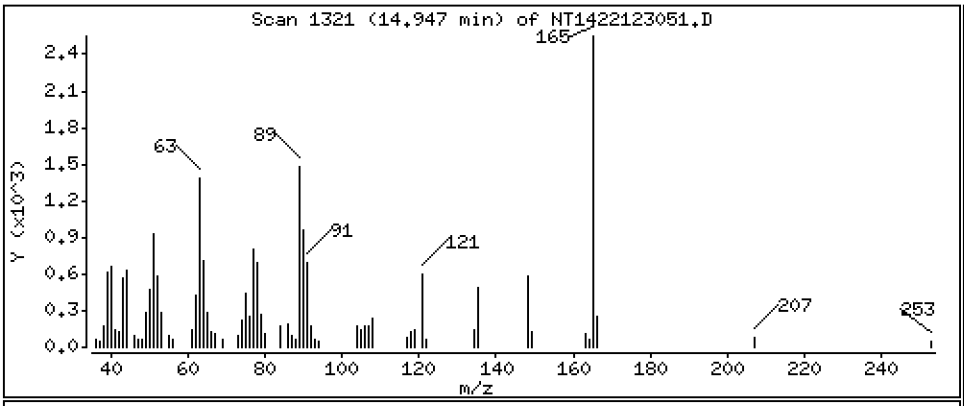
Operator: VTS

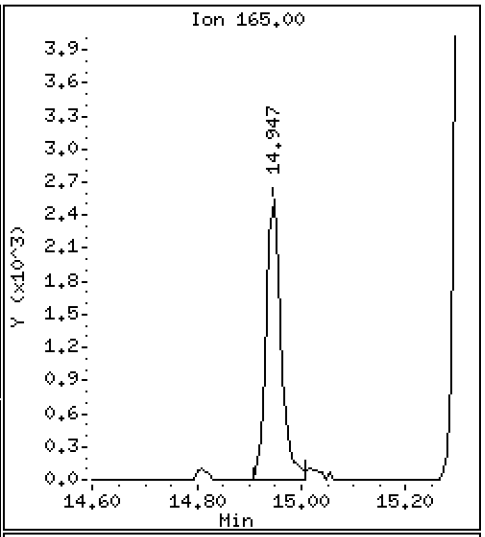
Column phase: ZB-5msi

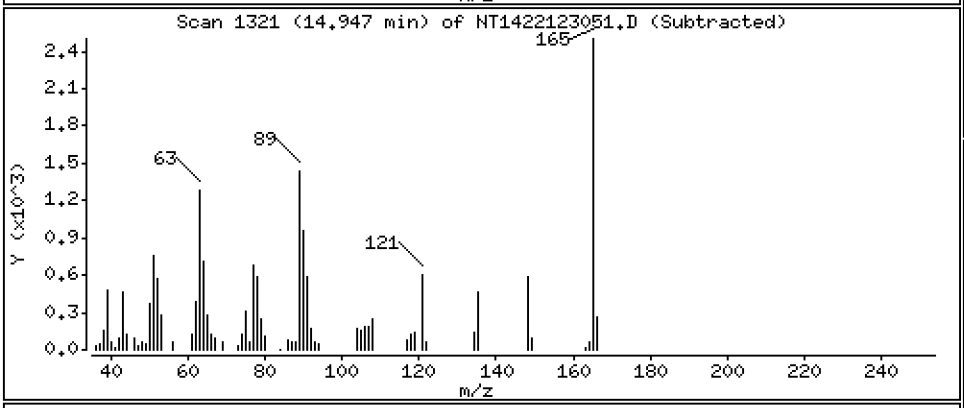
Column diameter: 0.25

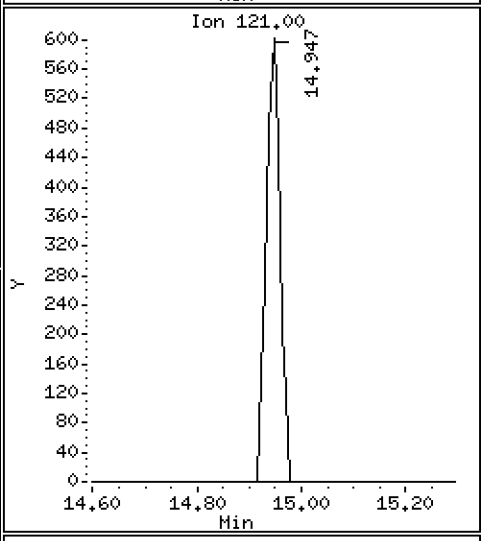
41 2,6-Dinitrotoluene

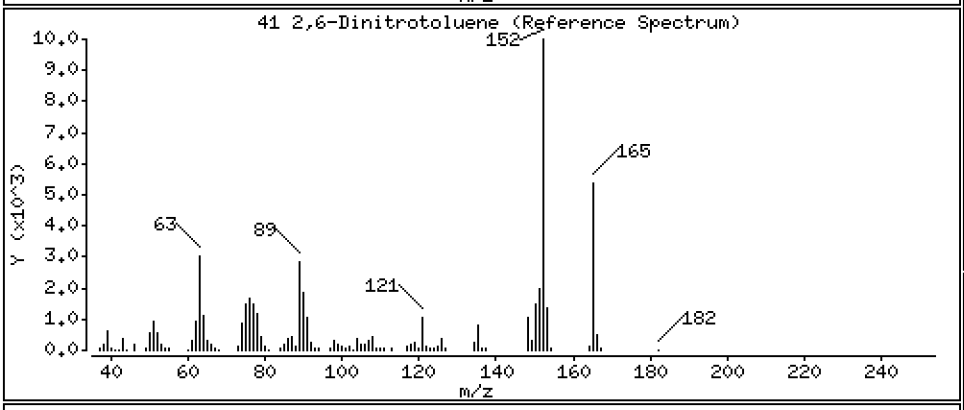
Concentration: 0.3515 ug/mL

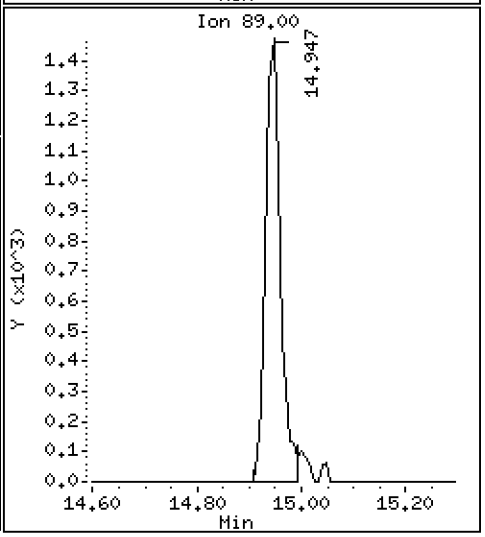


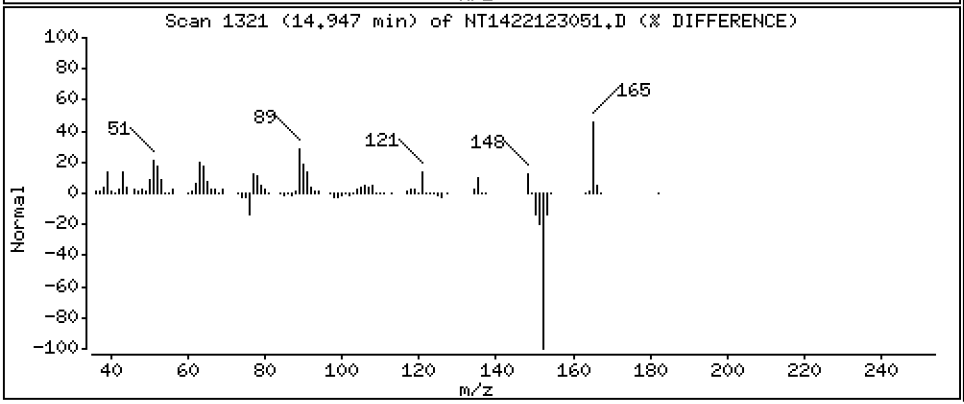












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

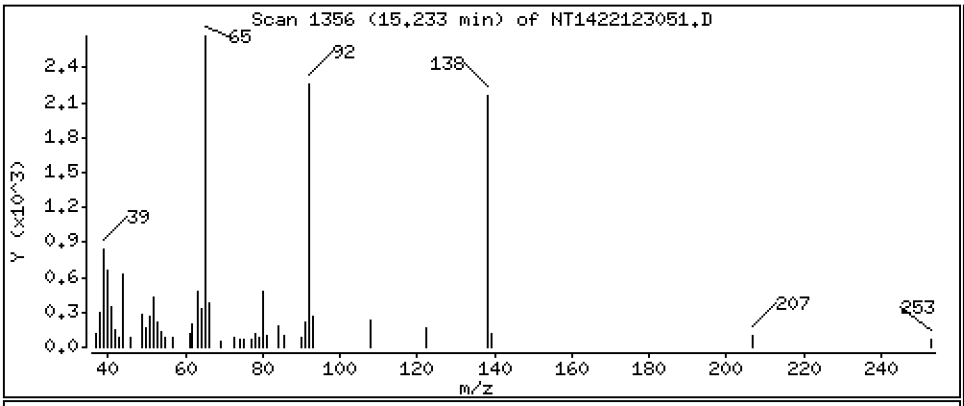
Operator: VTS

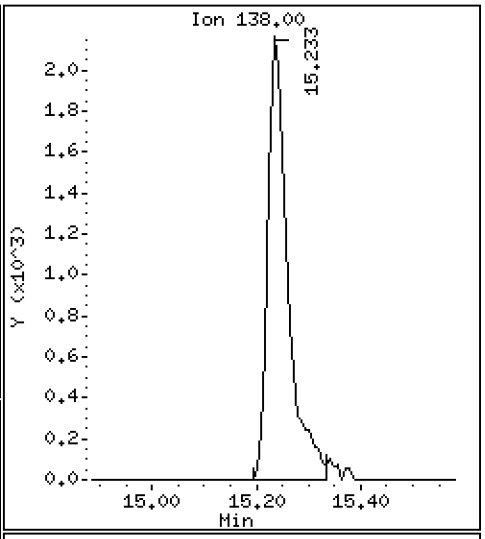
Column phase: ZB-5msi

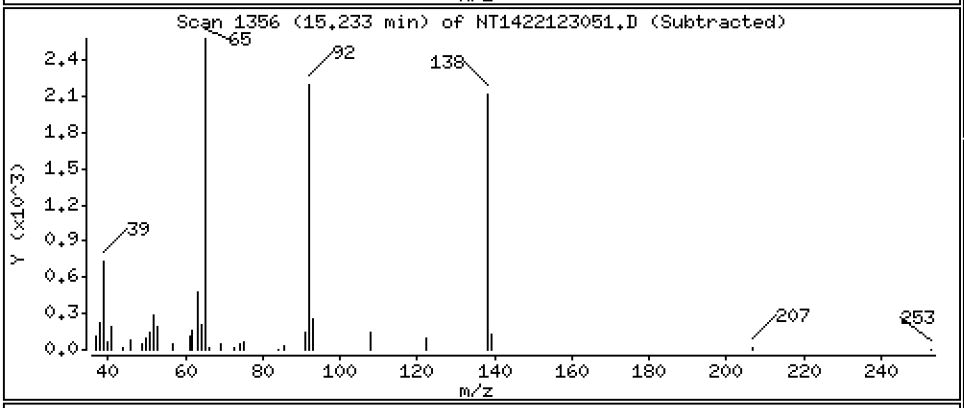
Column diameter: 0.25

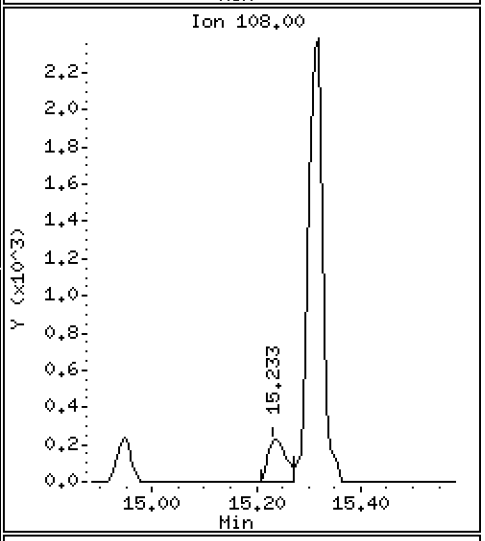
43 3-Nitroaniline

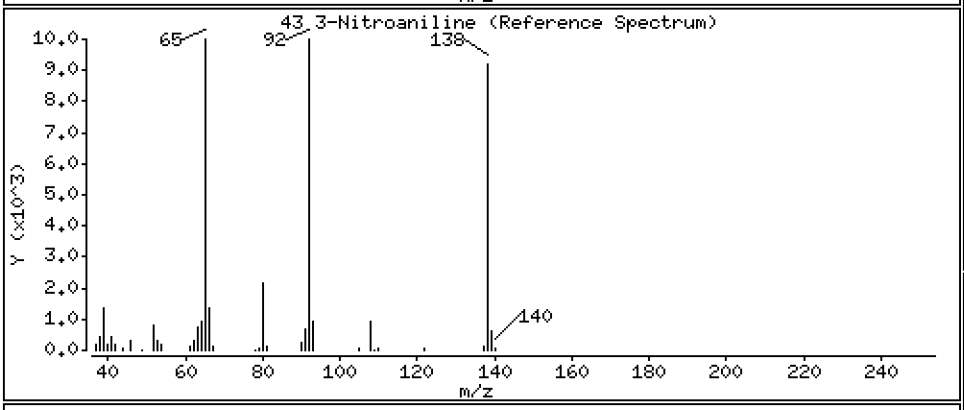
Concentration: 0.3370 ug/mL

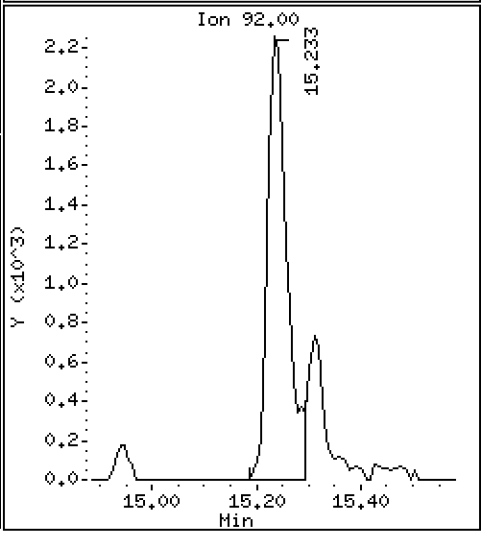


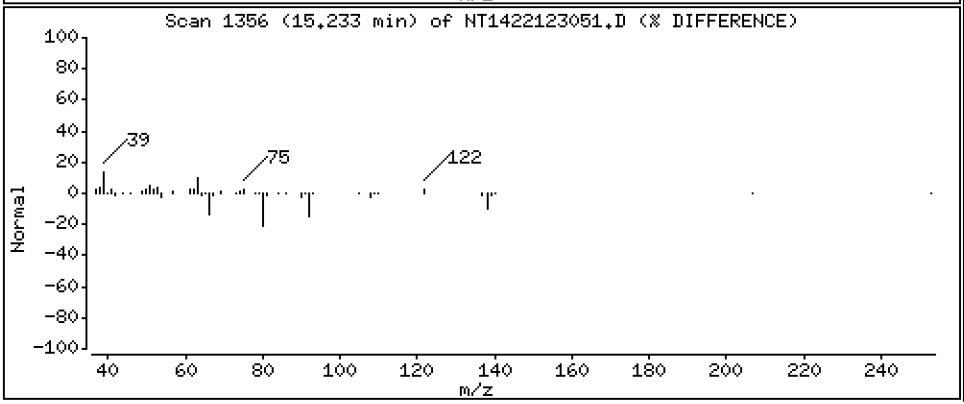












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

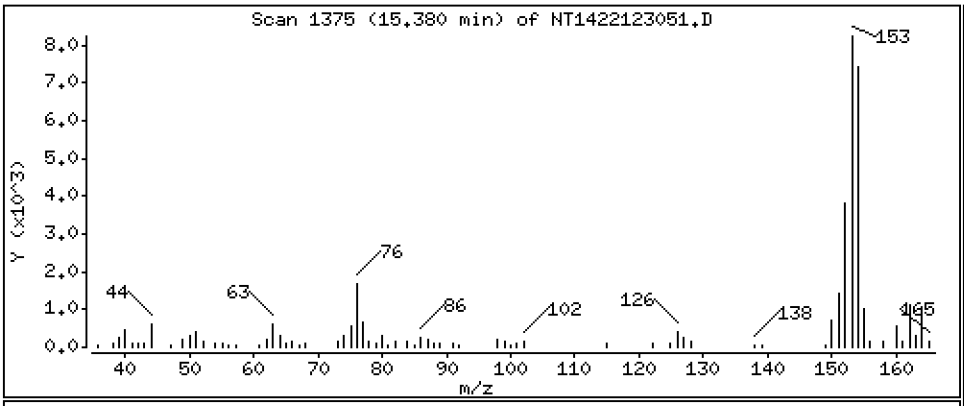
Operator: VTS

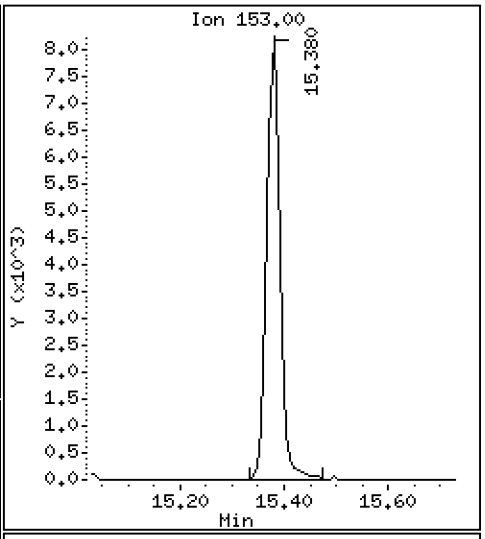
Column phase: ZB-5msi

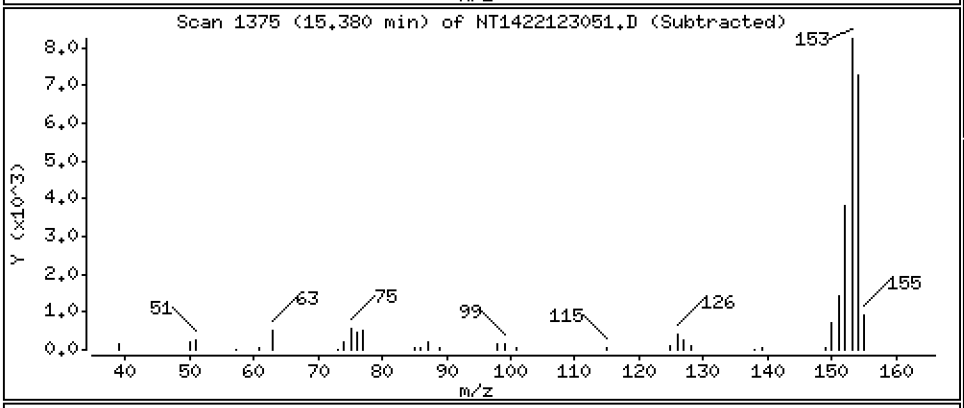
Column diameter: 0.25

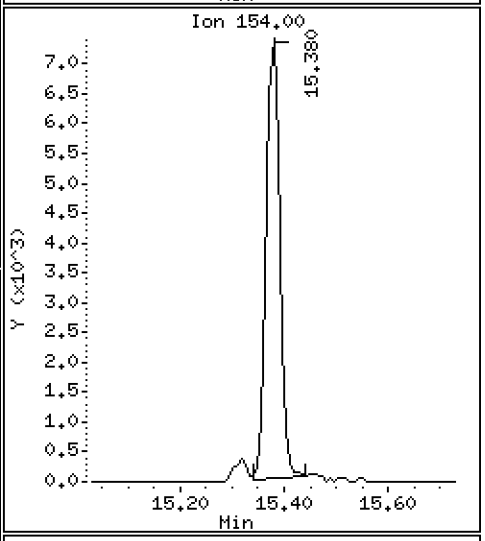
44 Acenaphthene

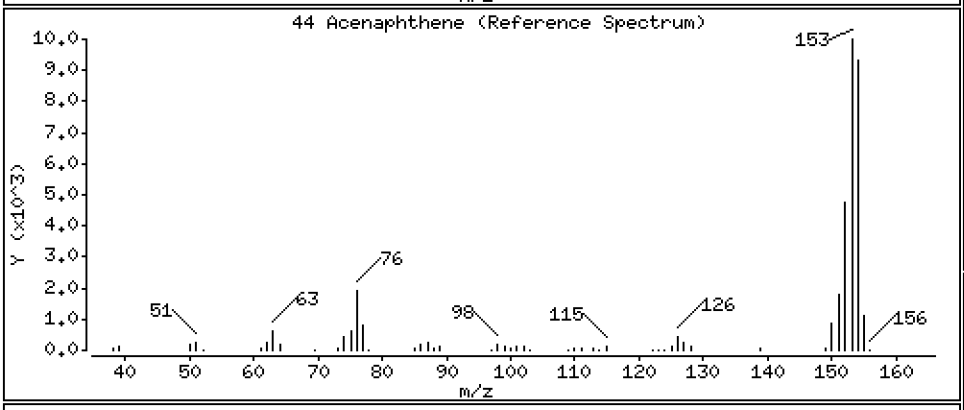
Concentration: 0.2351 ug/mL

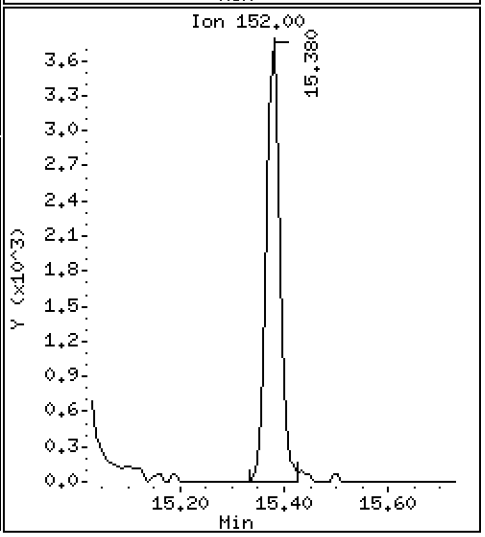


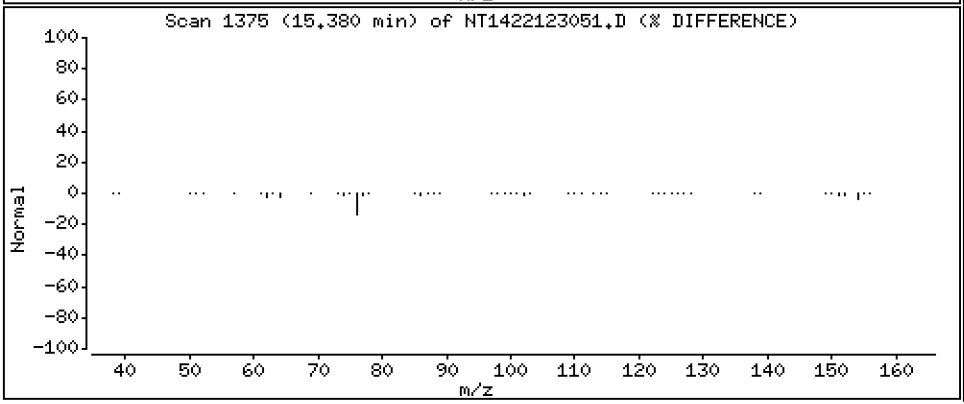












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

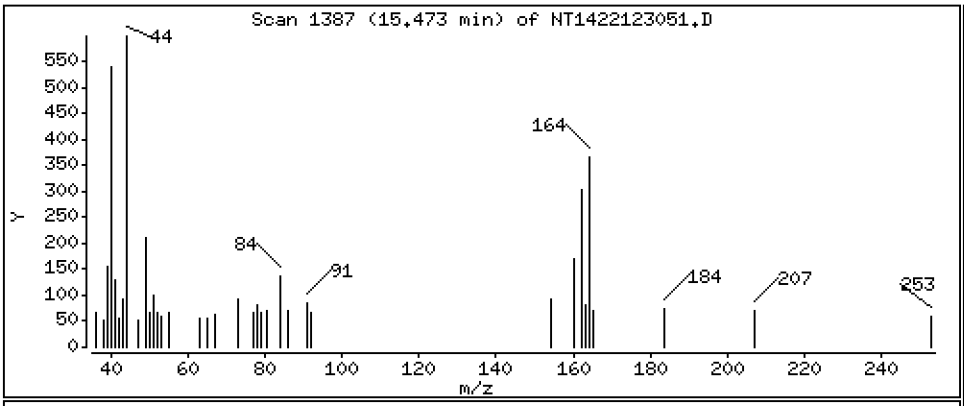
Operator: VTS

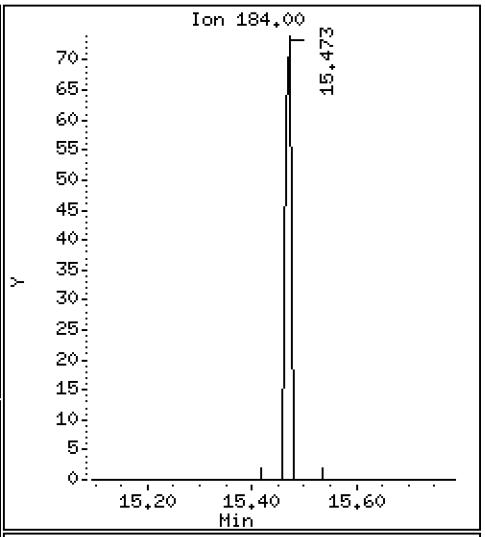
Column phase: ZB-5msi

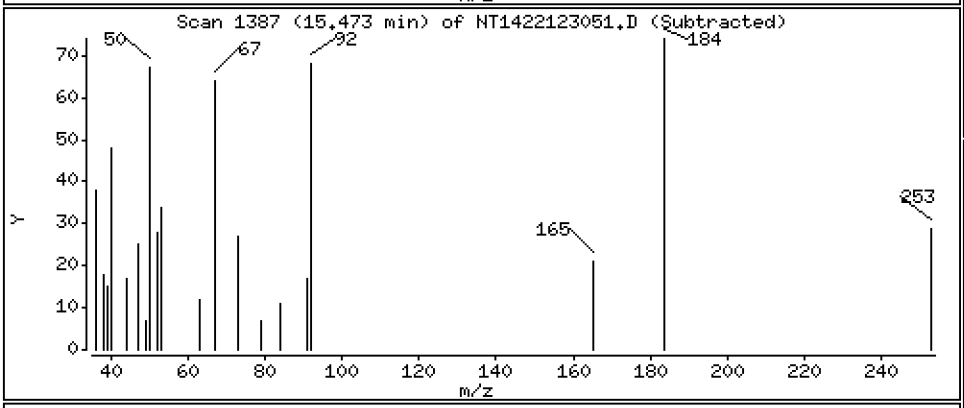
Column diameter: 0.25

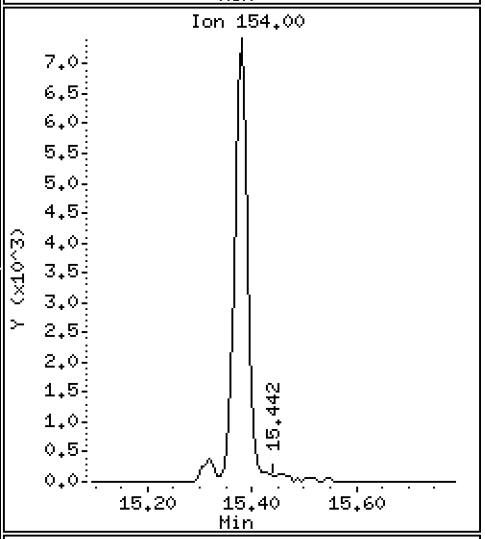
45 2,4-Dinitrophenol

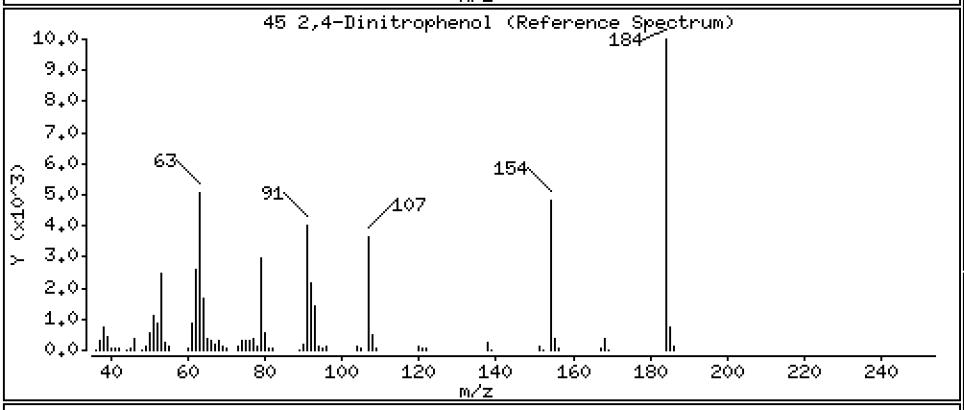
Concentration: 0.005296 ug/mL

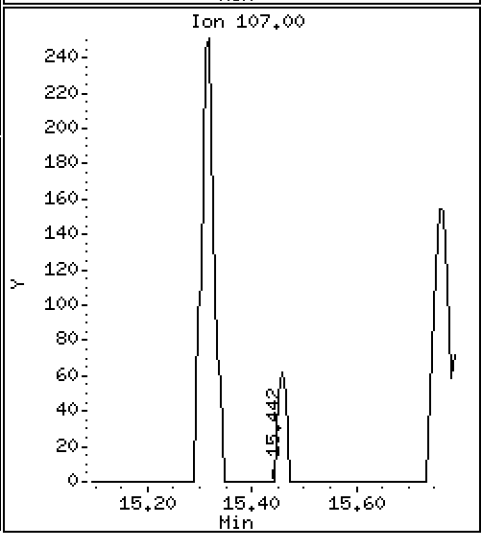


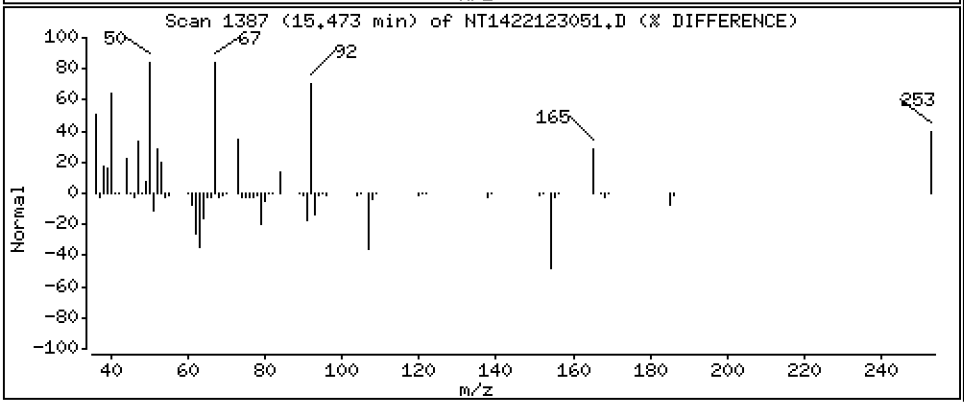












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

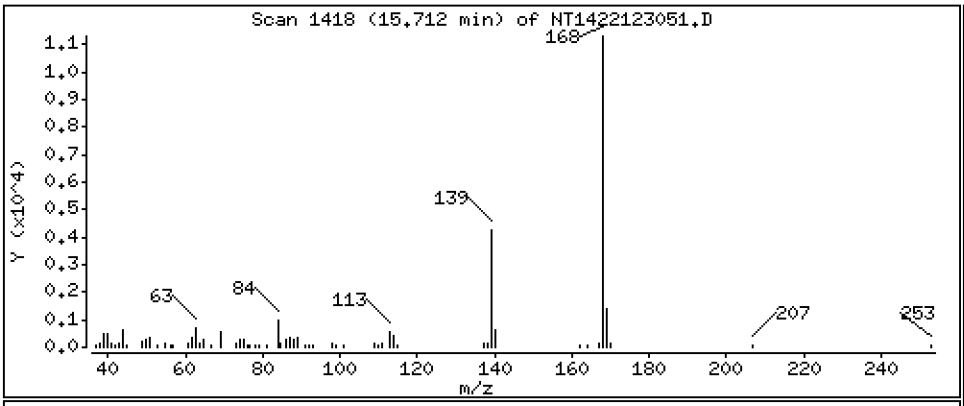
Operator: VTS

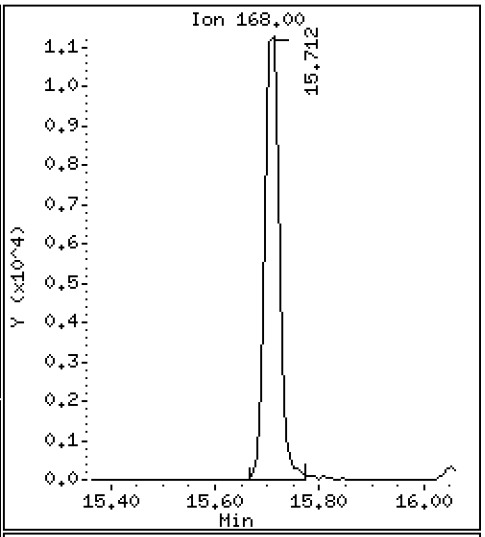
Column phase: ZB-5msi

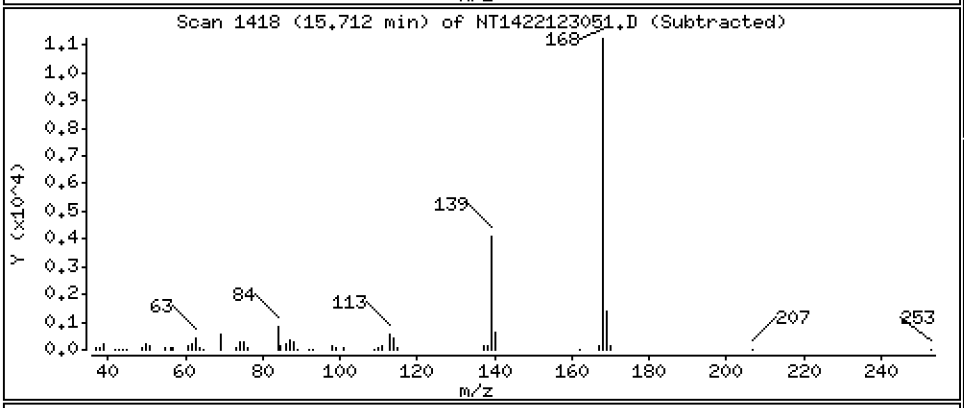
Column diameter: 0.25

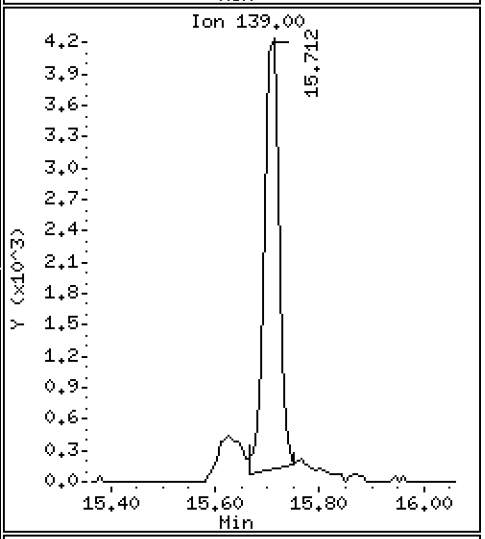
46 Dibenzofuran

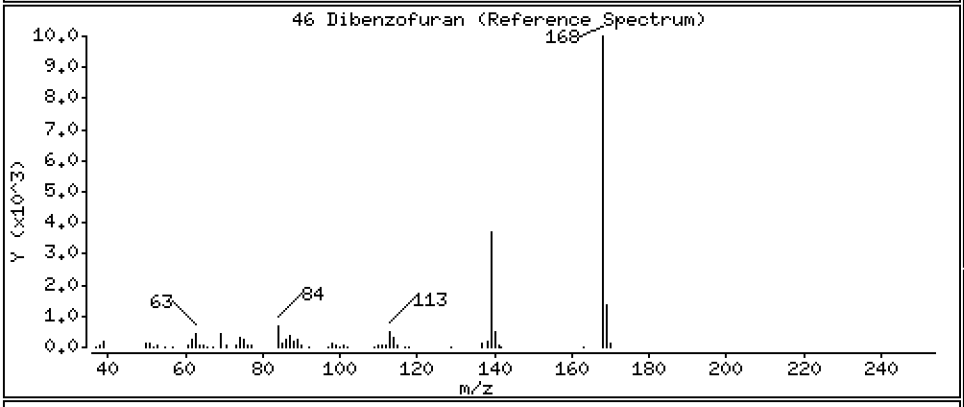
Concentration: 0.2405 ug/mL

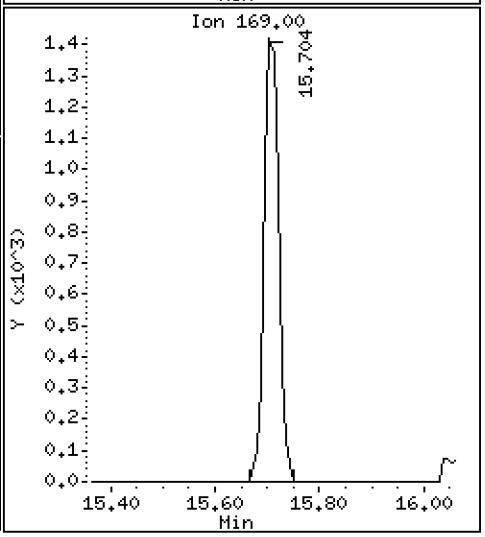


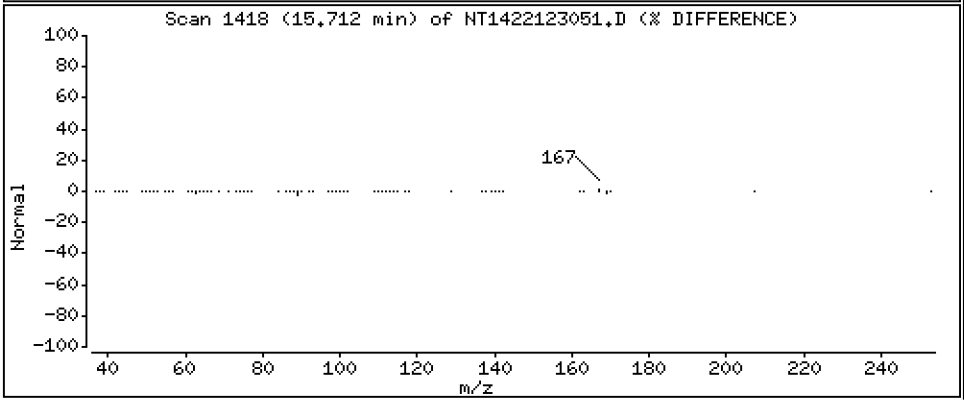












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

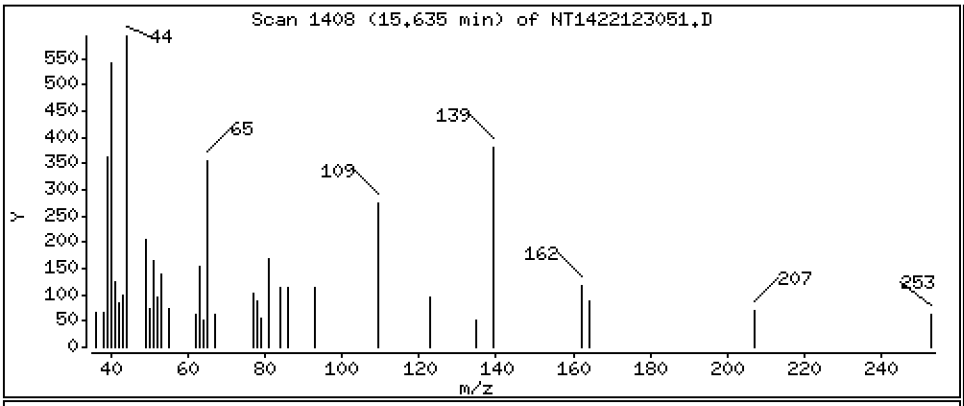
Operator: VTS

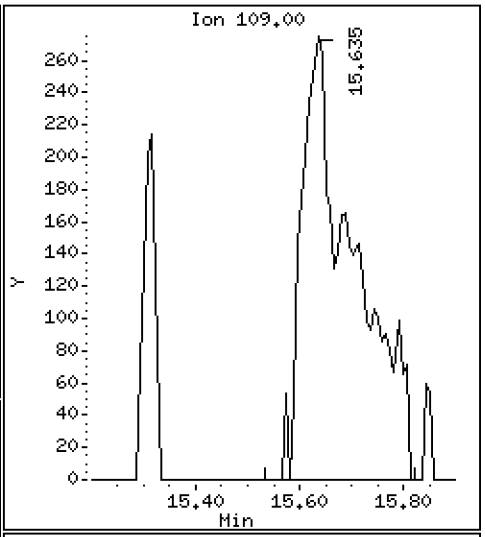
Column phase: ZB-5msi

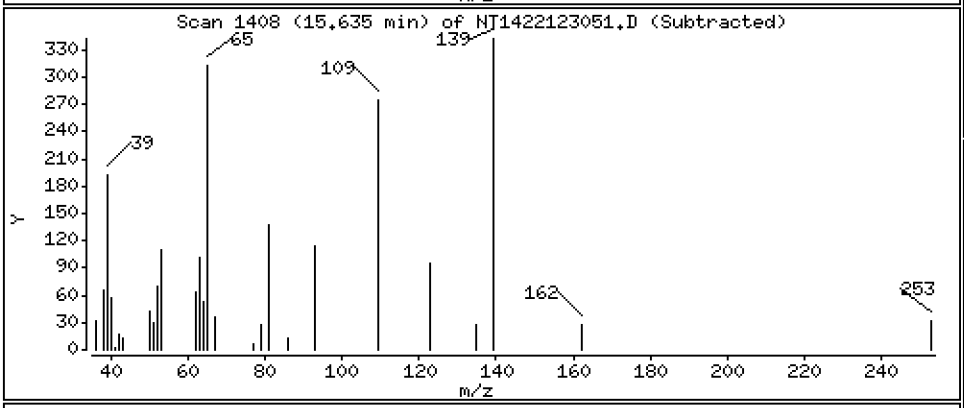
Column diameter: 0.25

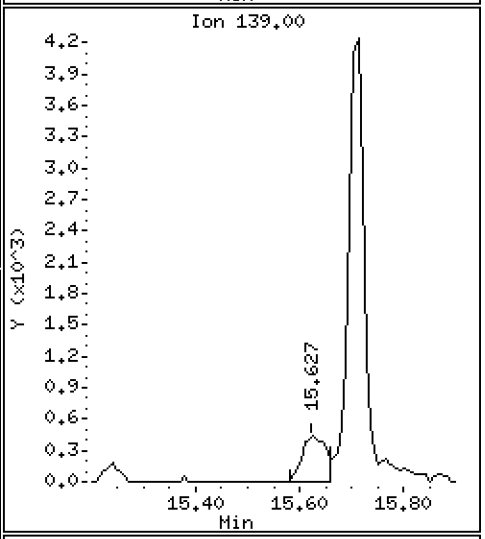
47 4-Nitrophenol

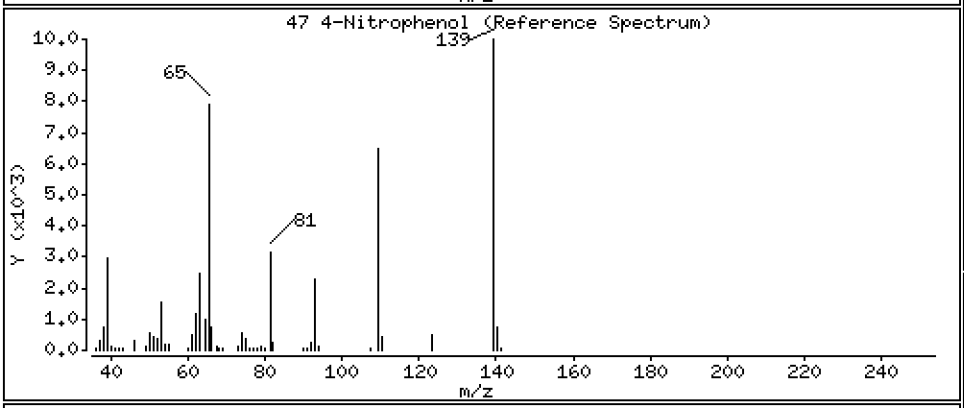
Concentration: 0.2375 ug/mL

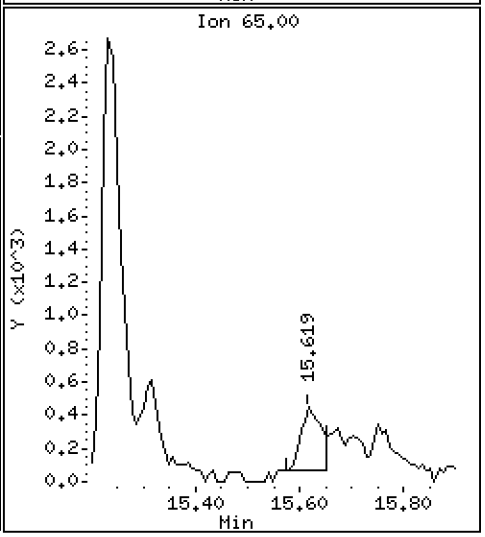


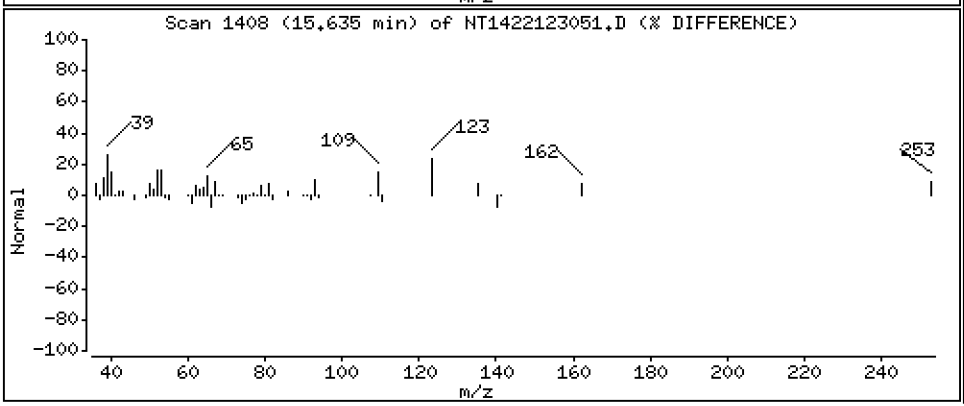












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

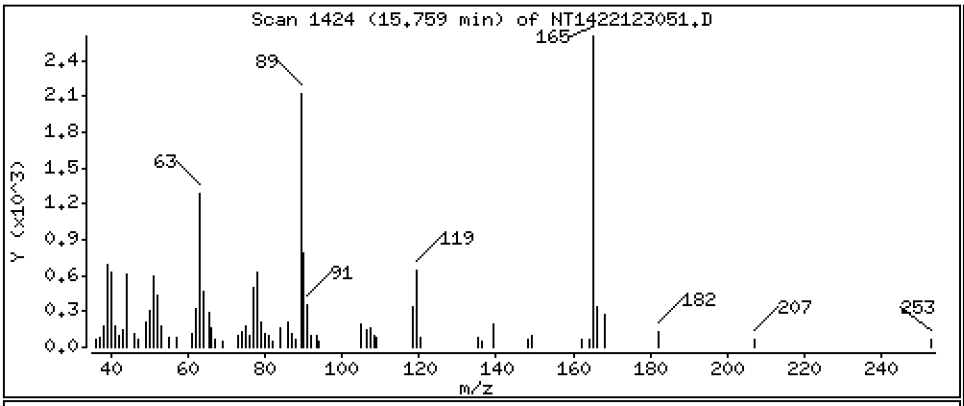
Operator: VTS

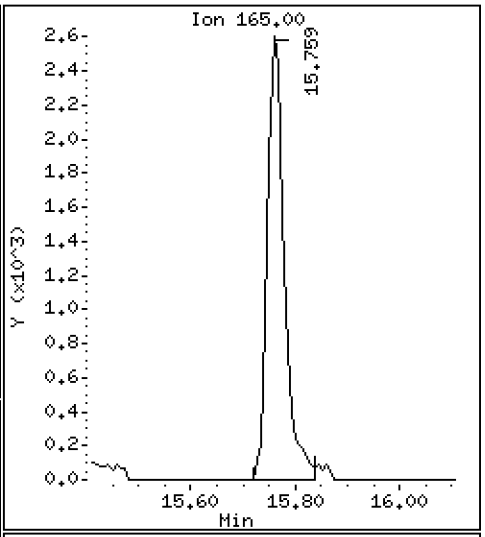
Column phase: ZB-5msi

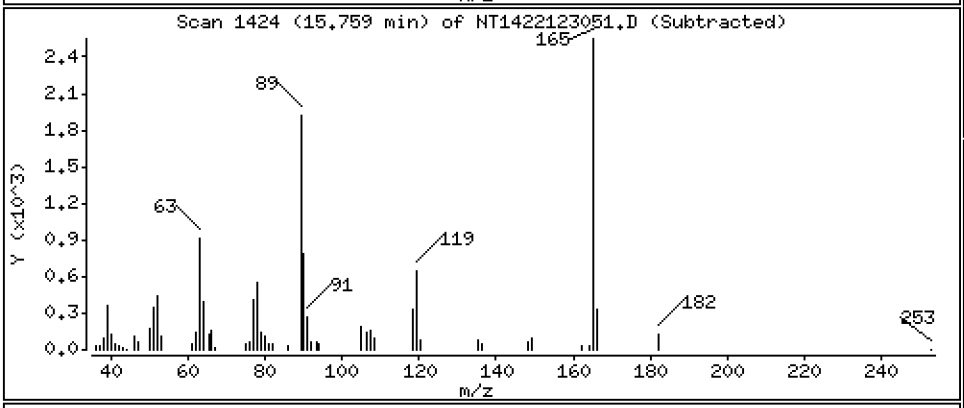
Column diameter: 0.25

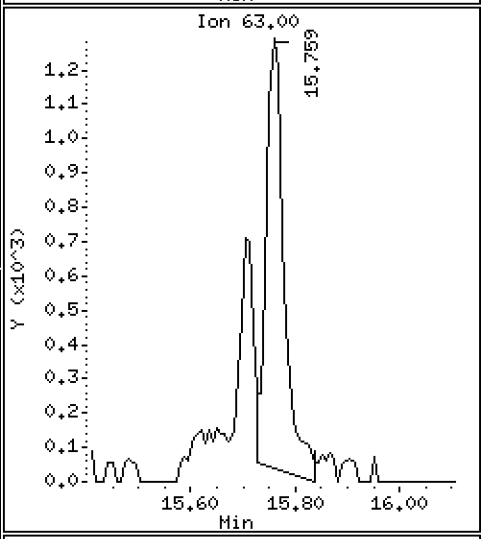
48 2,4-Dinitrotoluene

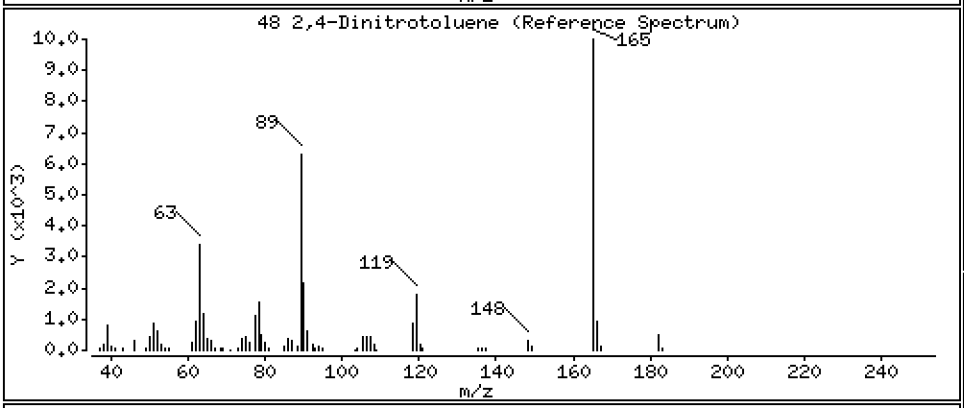
Concentration: 0.3020 ug/mL

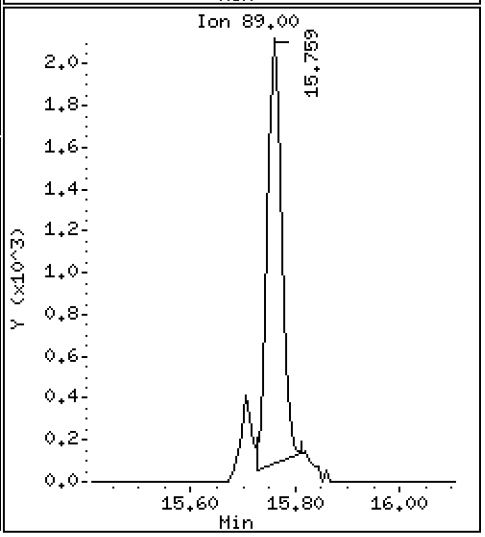


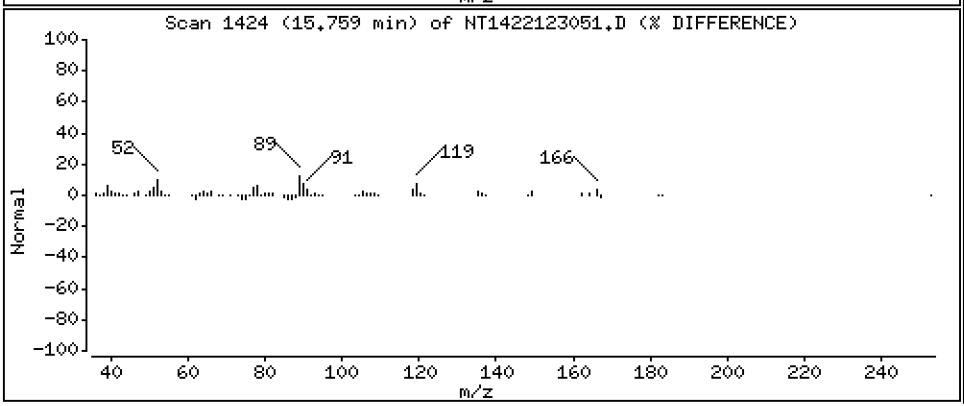












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

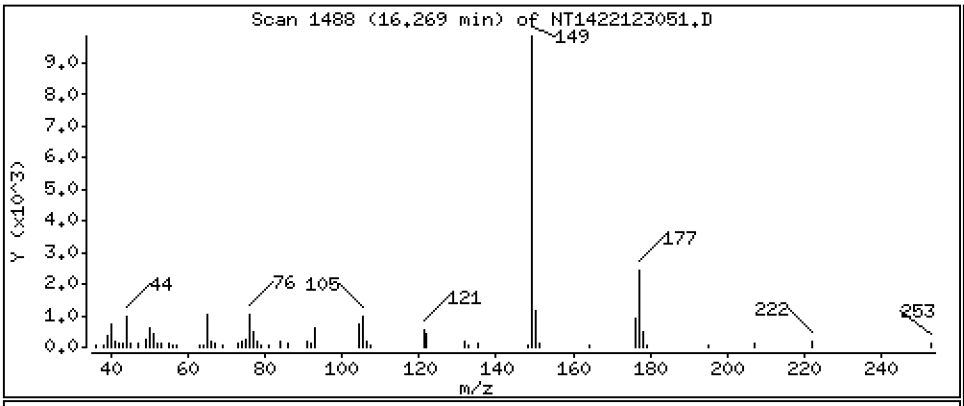
Operator: VTS

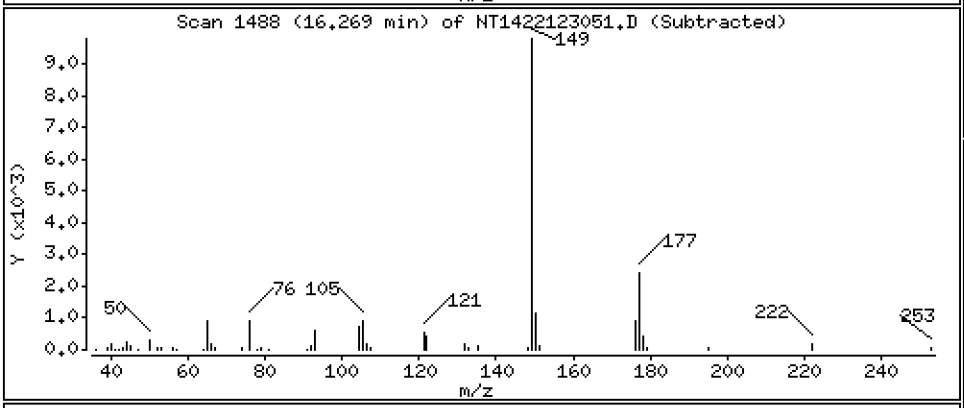
Column phase: ZB-5msi

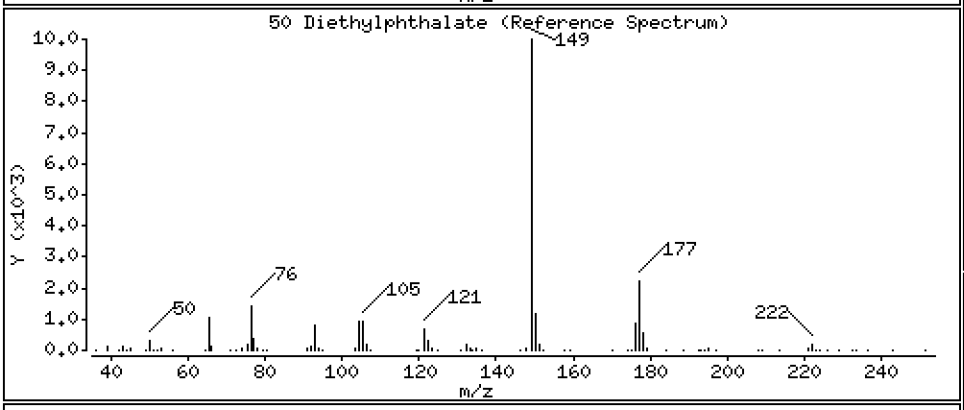
Column diameter: 0.25

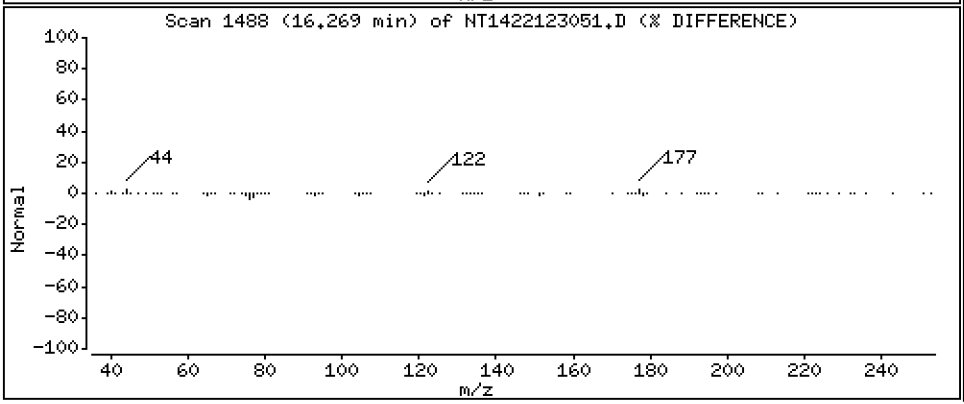
50 Diethylphthalate

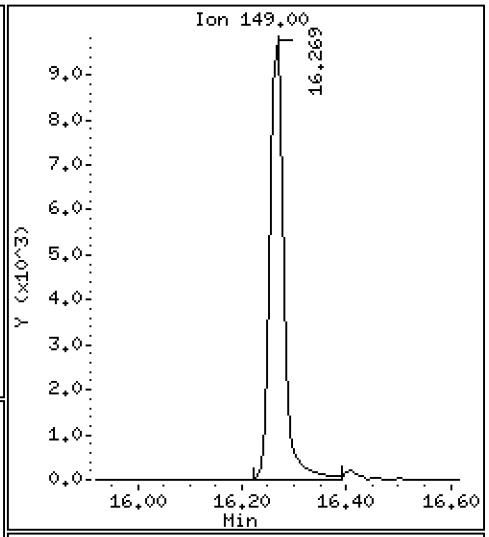
Concentration: 0.2277 ug/mL

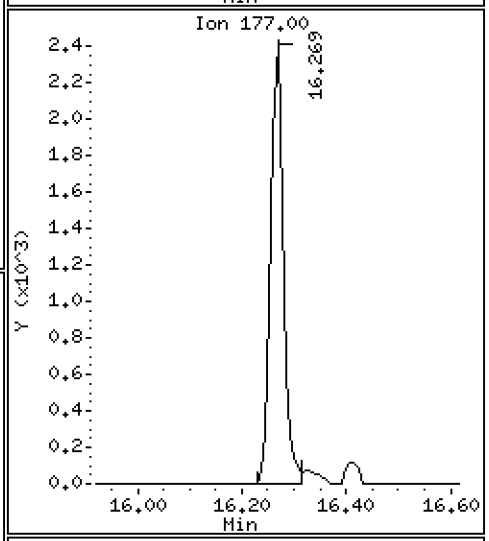


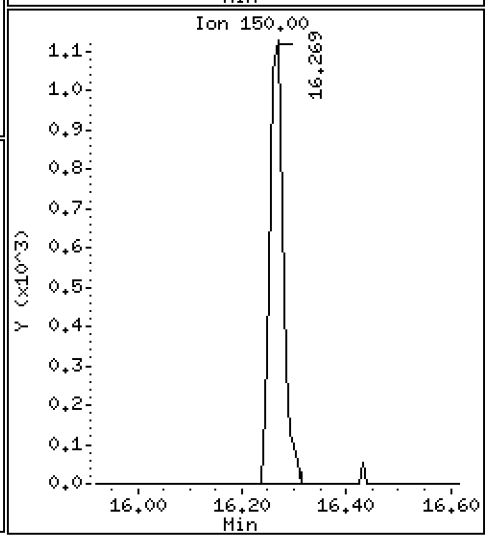












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

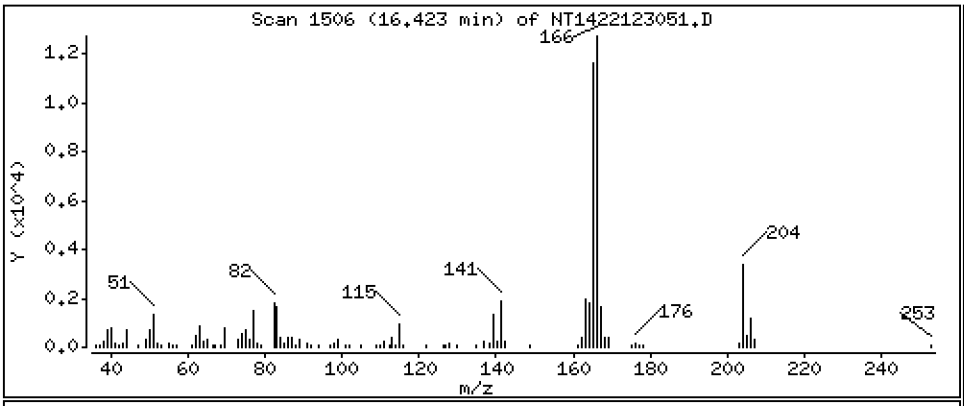
Operator: VTS

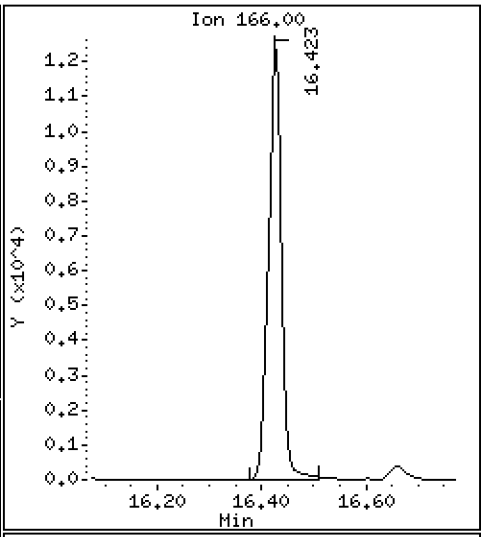
Column phase: ZB-5msi

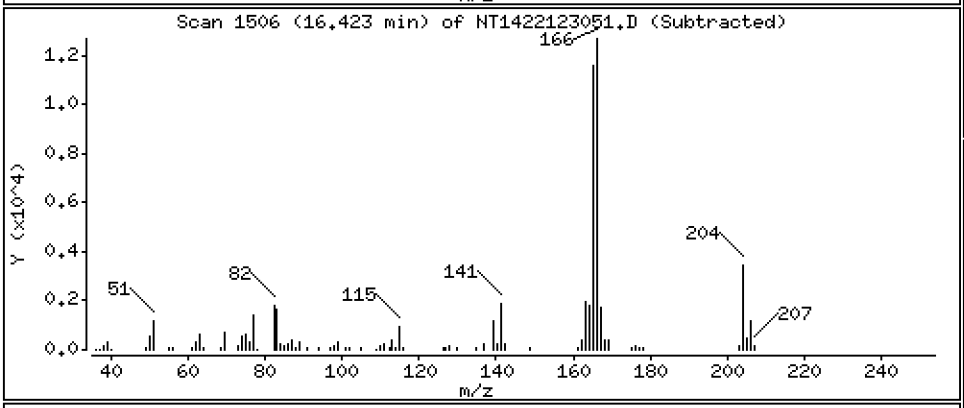
Column diameter: 0.25

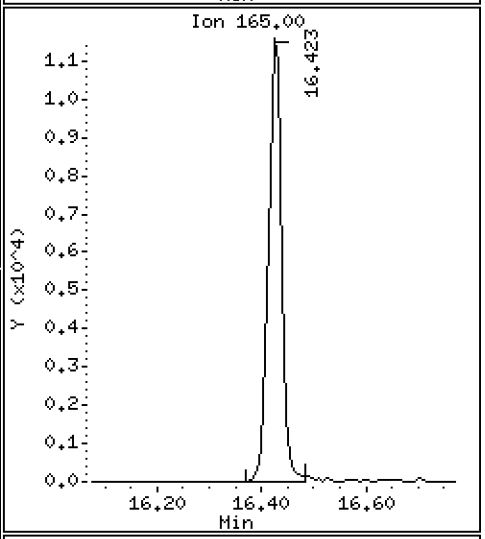
49 Fluorene

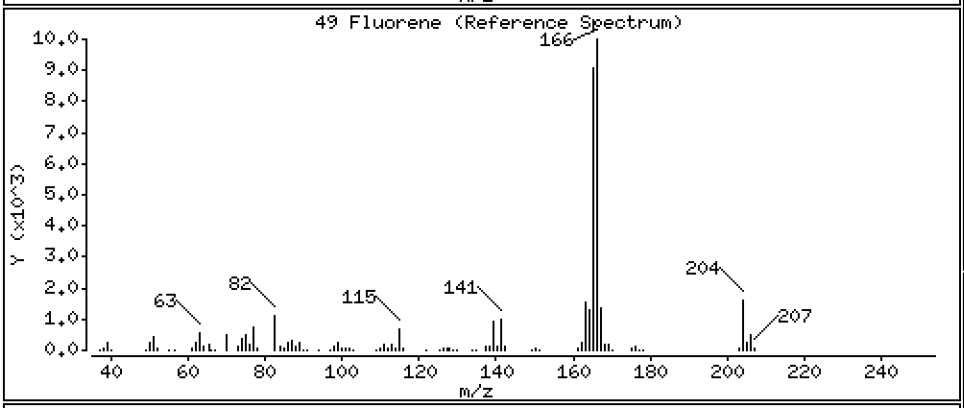
Concentration: 0.2274 ug/mL

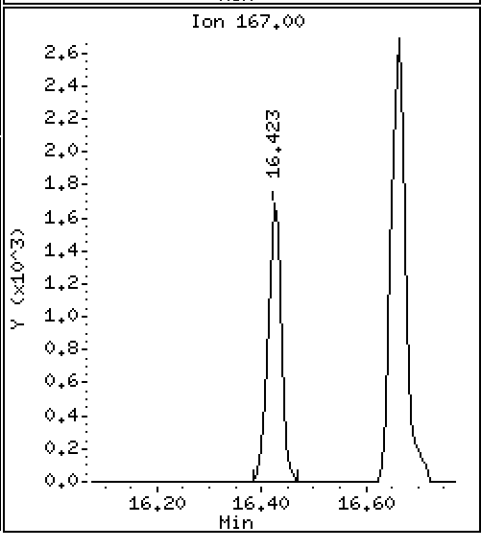


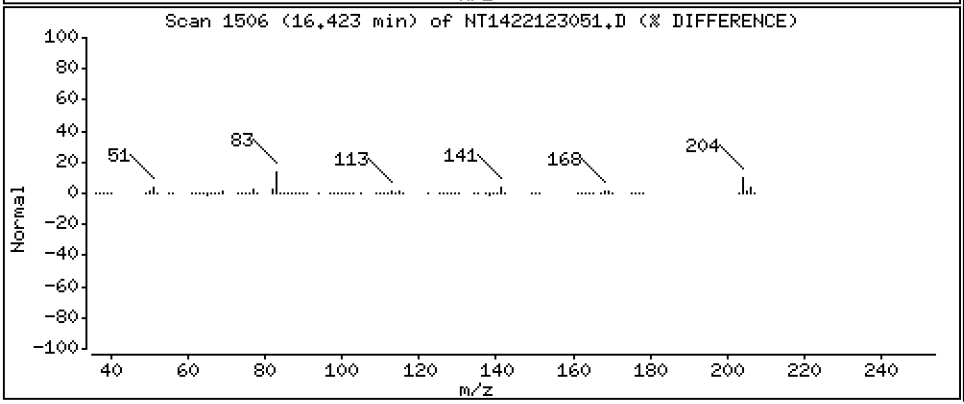












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

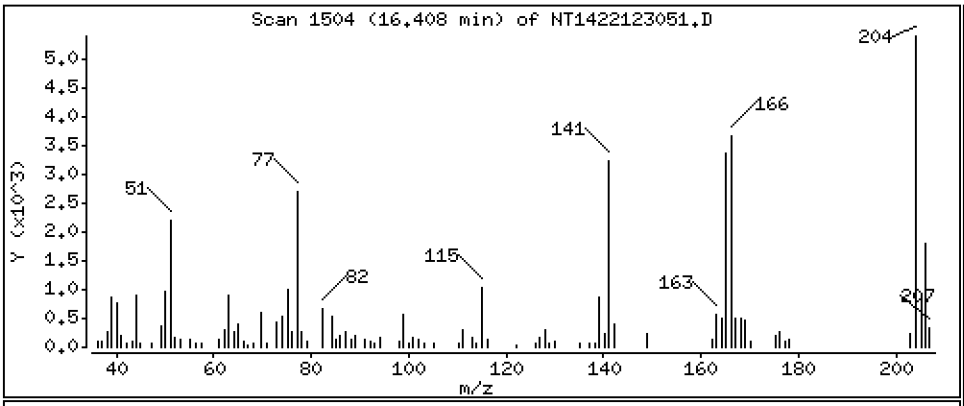
Operator: VTS

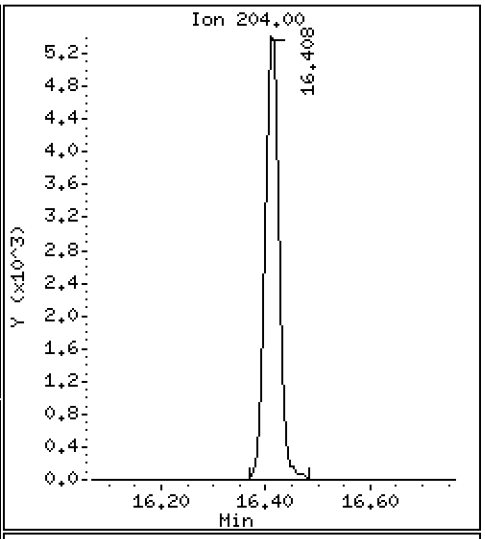
Column phase: ZB-5msi

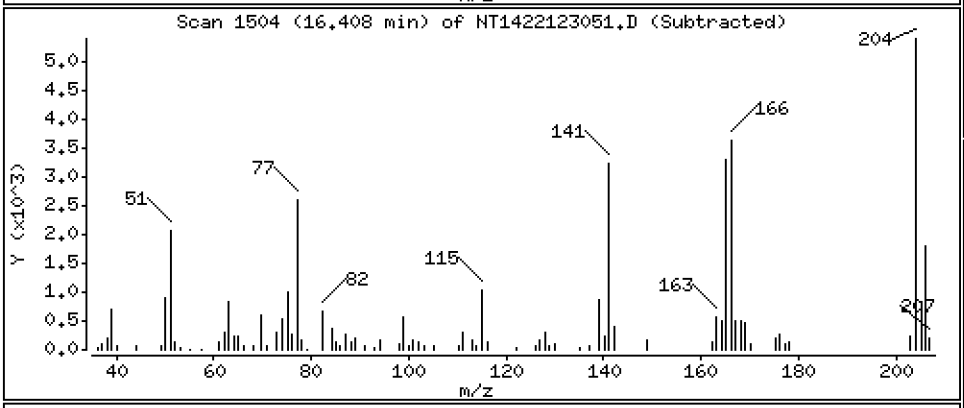
Column diameter: 0.25

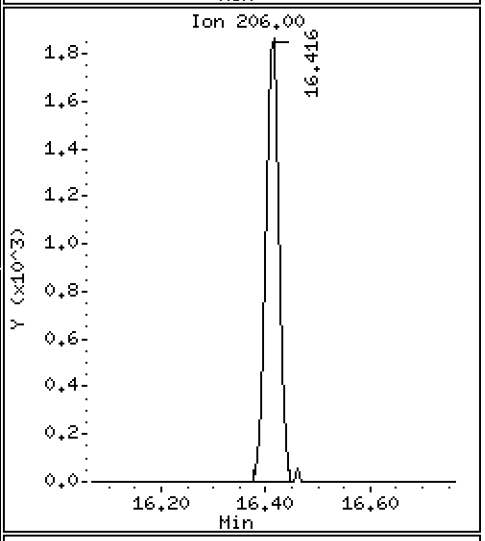
51 4-Chlorophenyl-phenylether

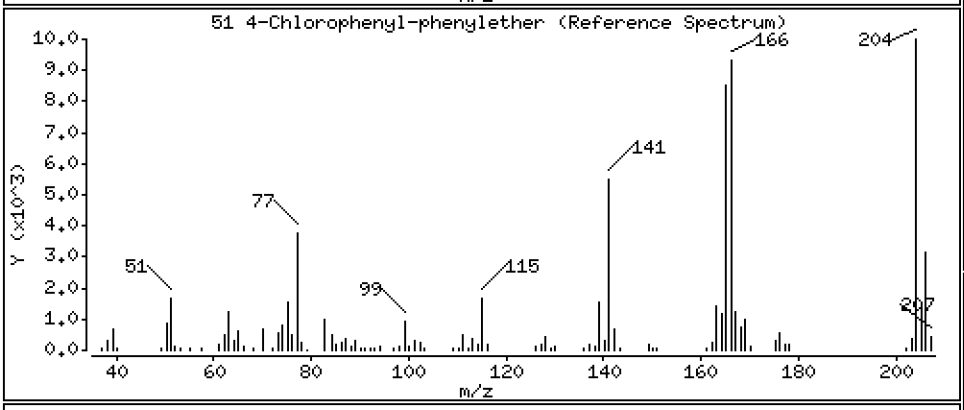
Concentration: 0.2138 ug/mL

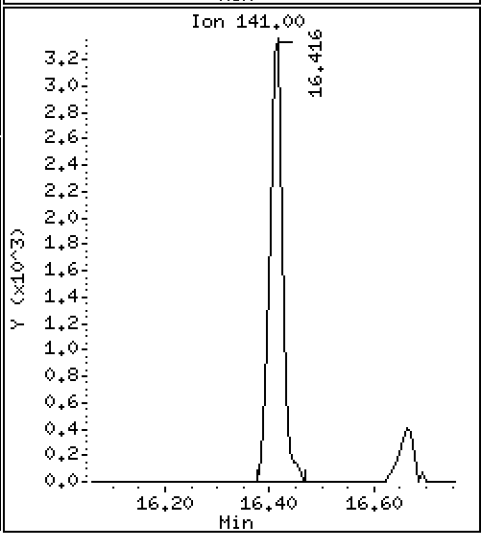


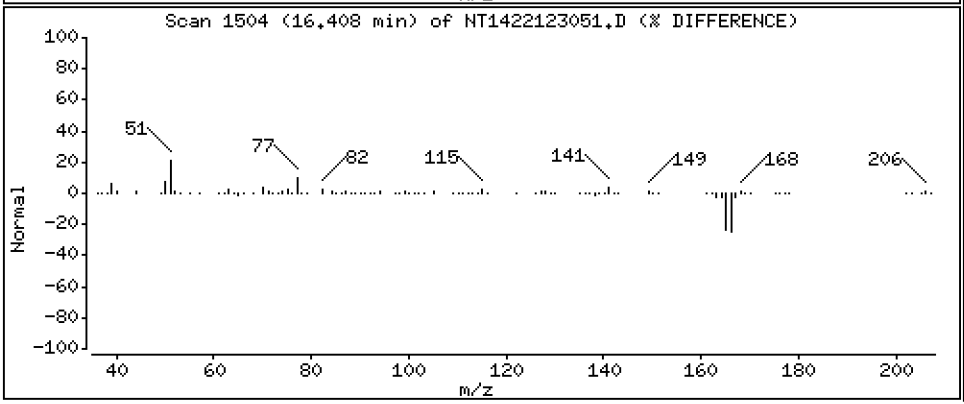












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

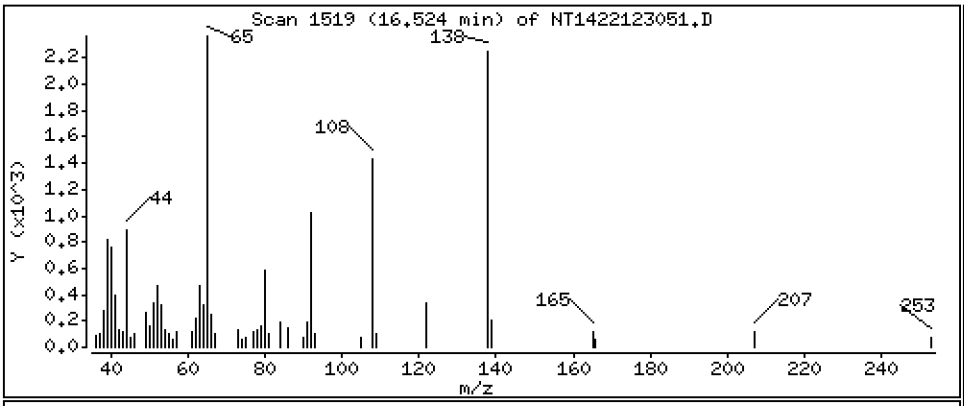
Operator: VTS

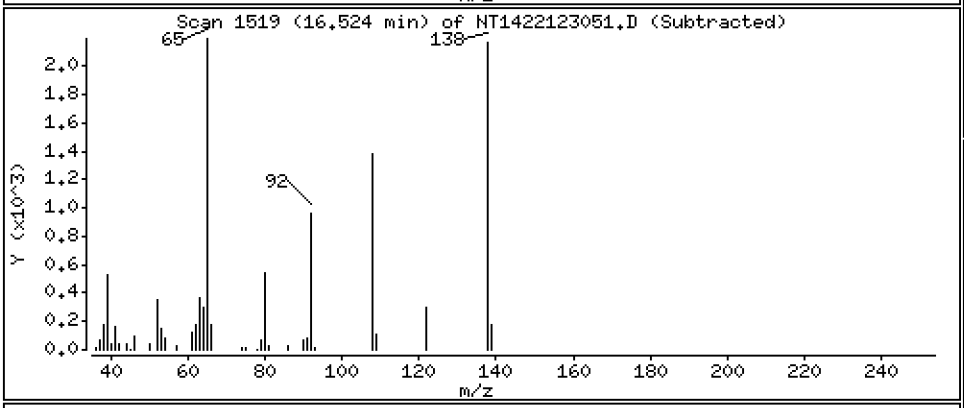
Column phase: ZB-5msi

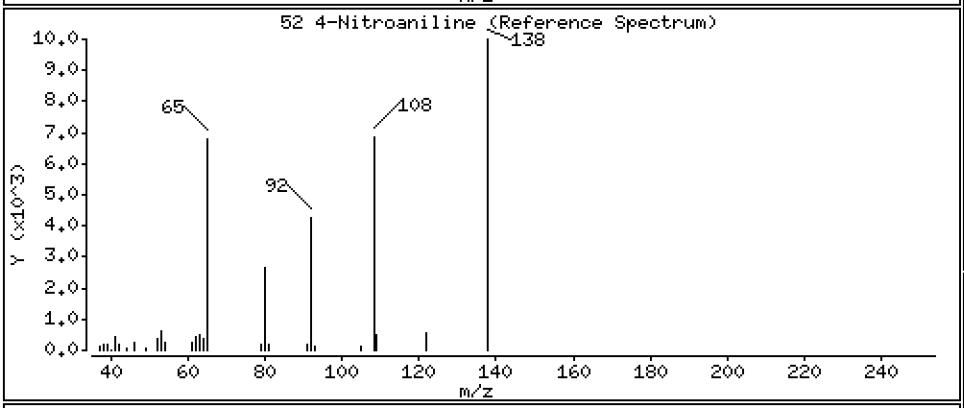
Column diameter: 0.25

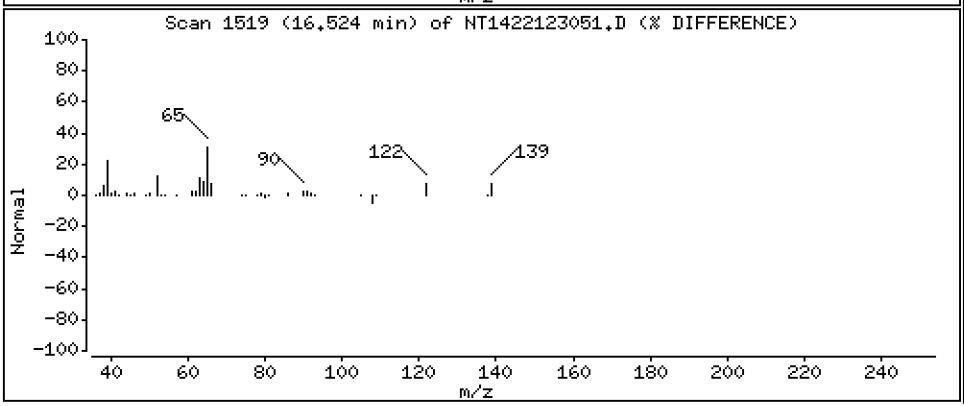
52 4-Nitroaniline

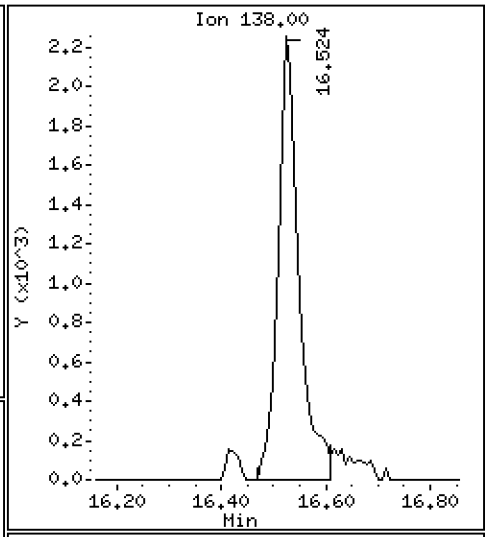
Concentration: 0.3128 ug/mL

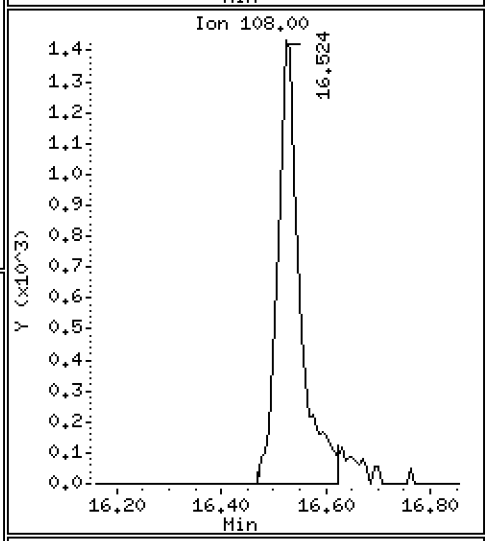


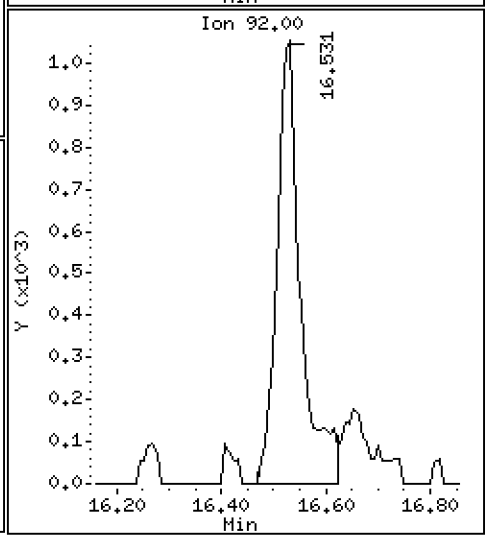












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

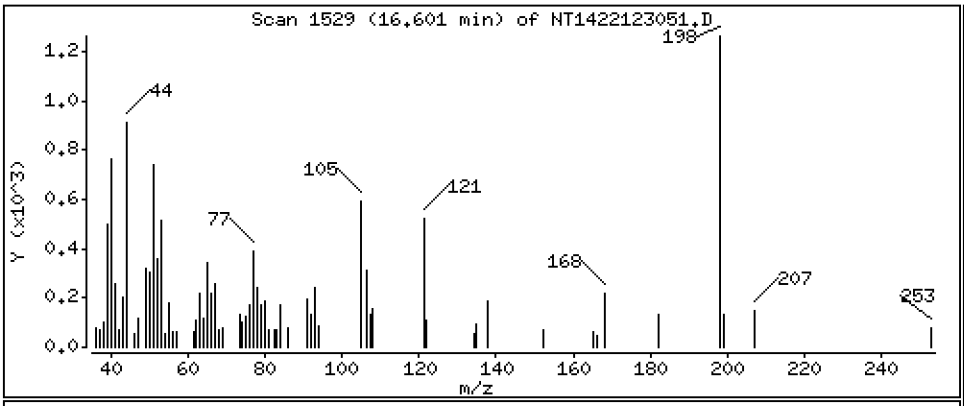
Operator: VTS

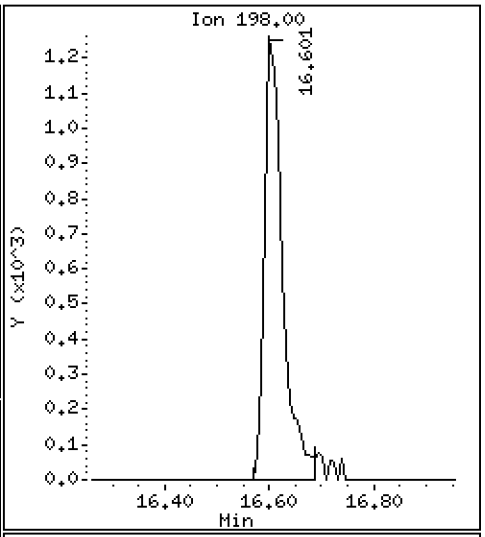
Column phase: ZB-5msi

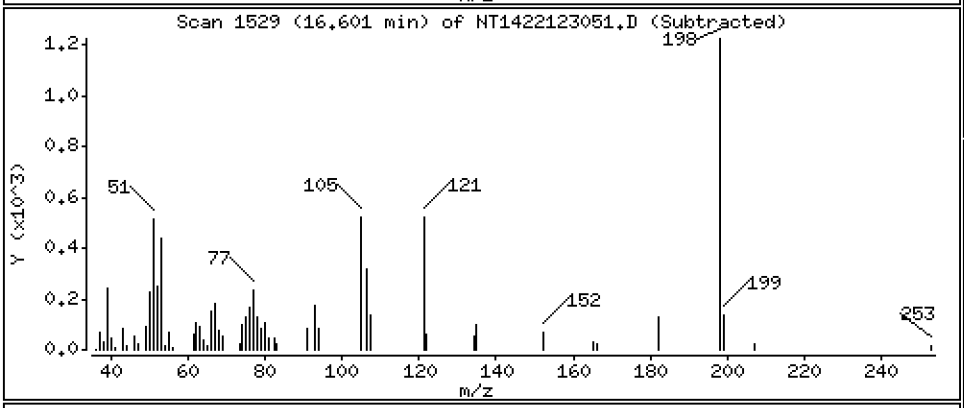
Column diameter: 0.25

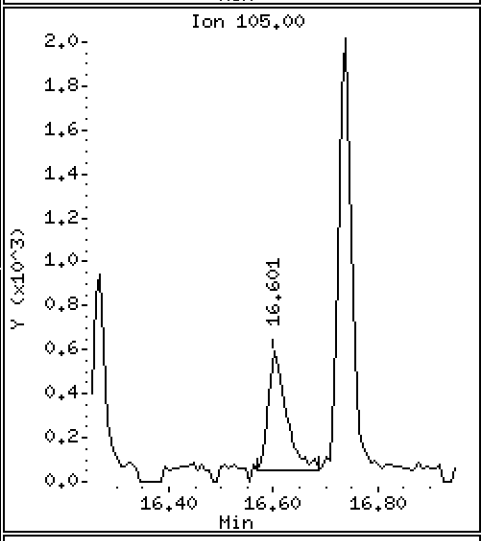
53 4,6-Dinitro-2-methylphenol

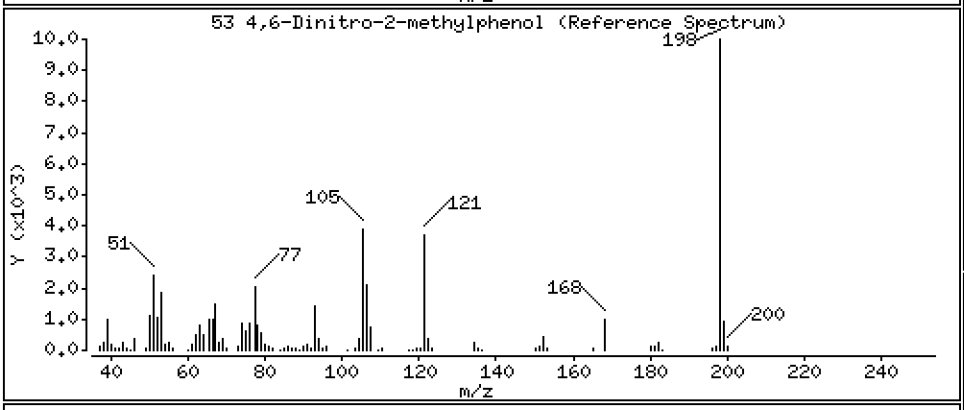
Concentration: 0.2020 ug/mL

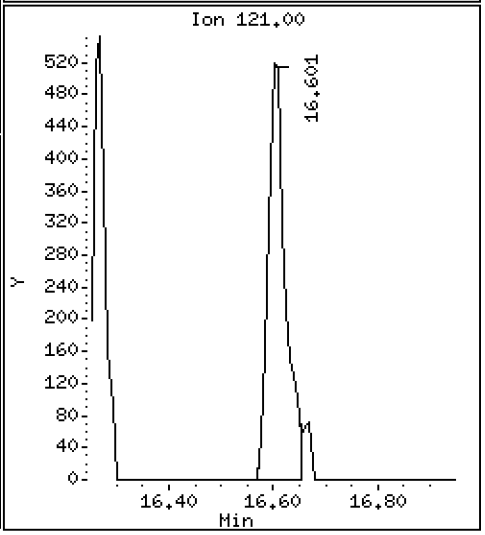


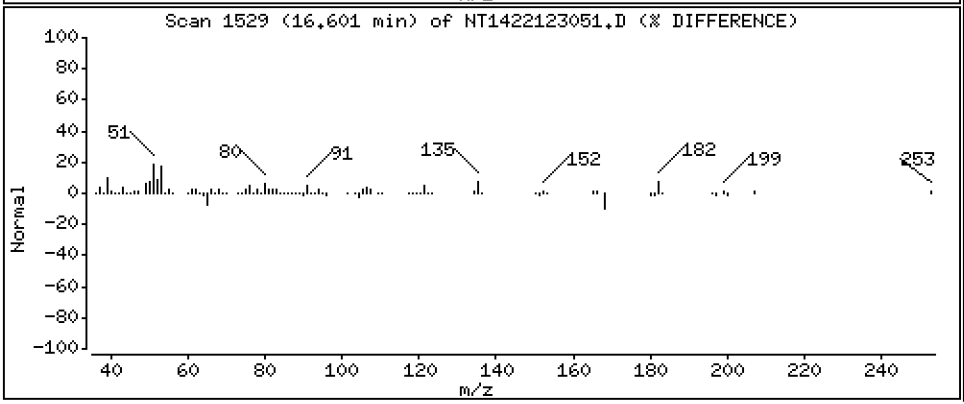












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

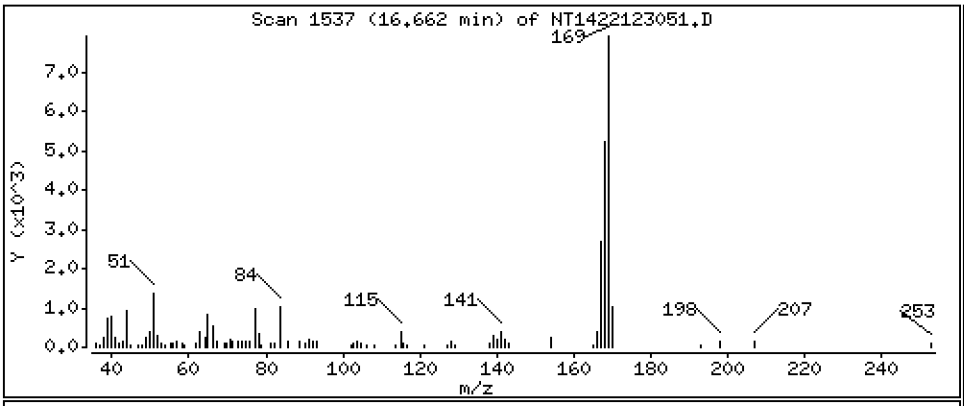
Operator: VTS

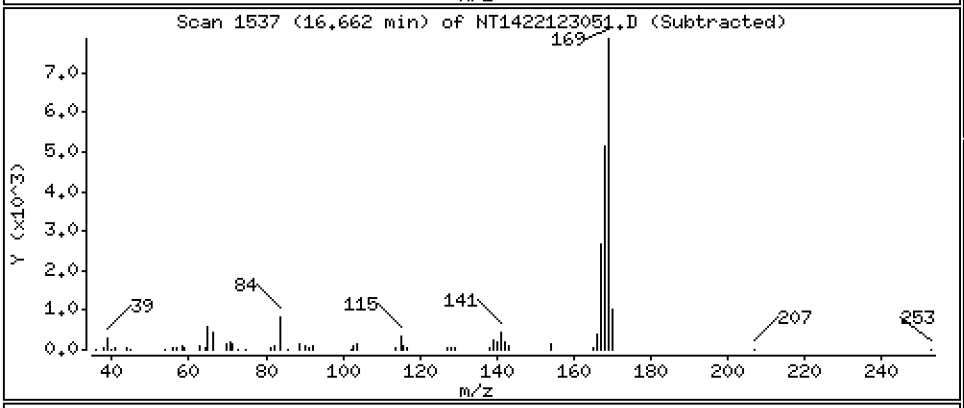
Column phase: ZB-5msi

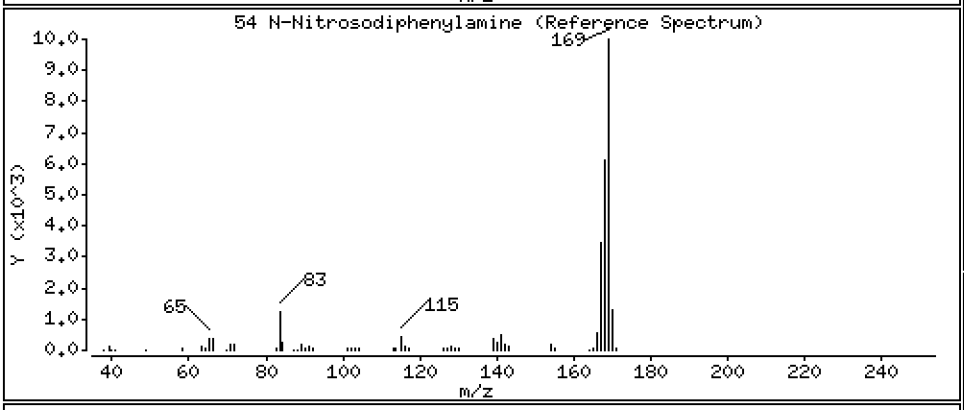
Column diameter: 0.25

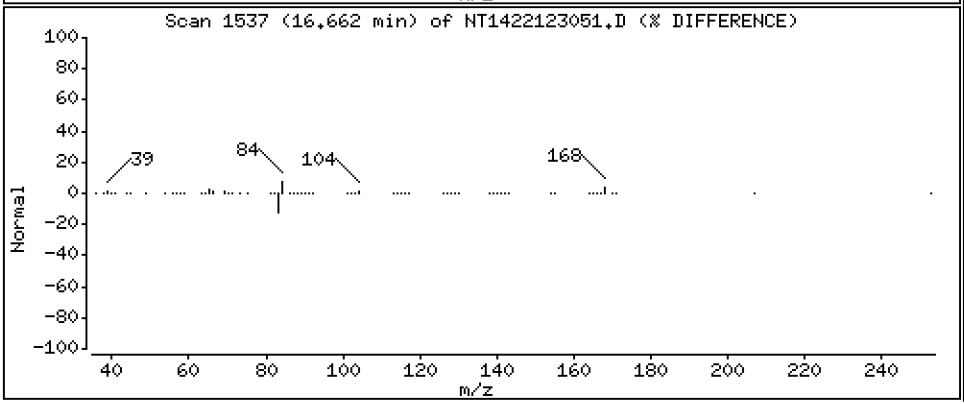
54 N-Nitrosodiphenylamine

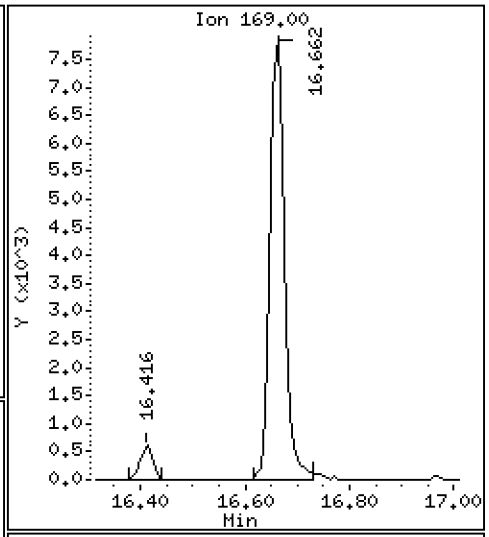
Concentration: 0.2422 ug/mL

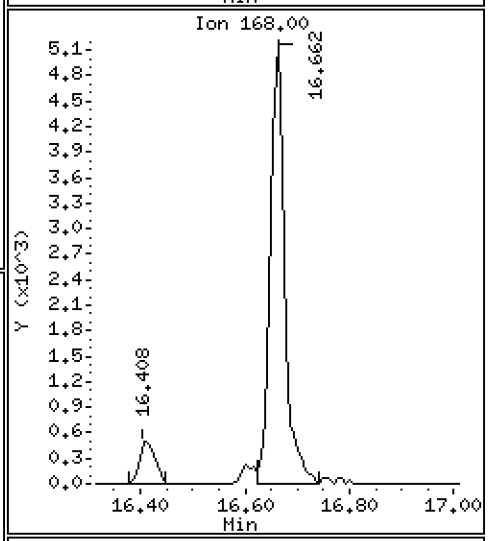


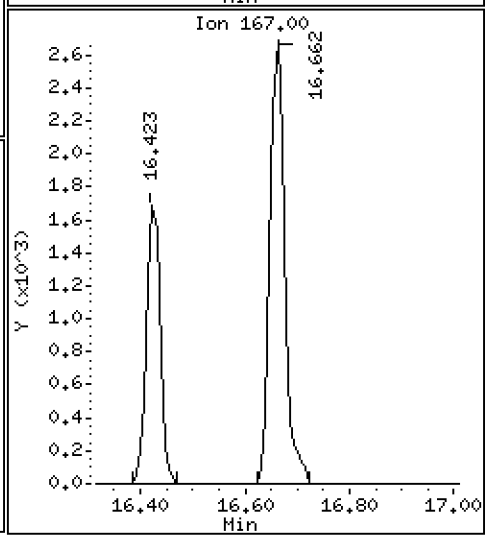












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

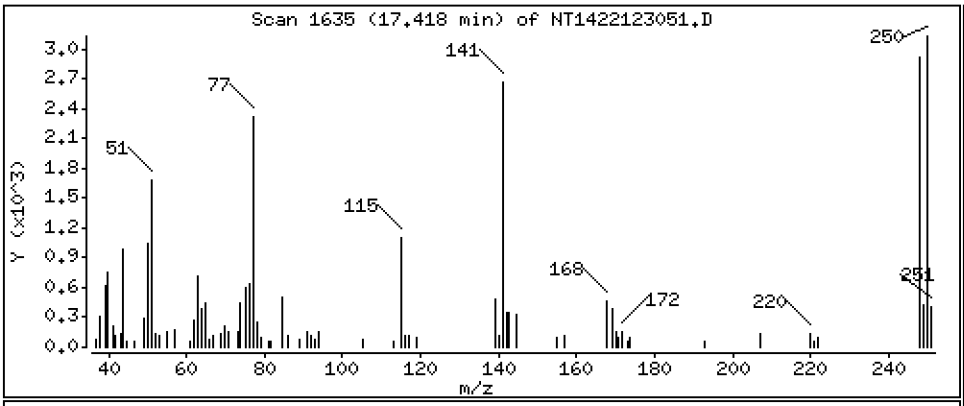
Operator: VTS

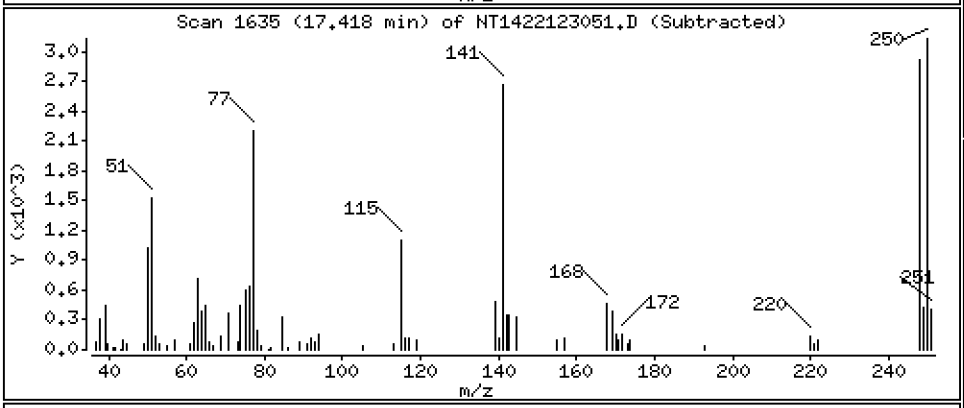
Column phase: ZB-5msi

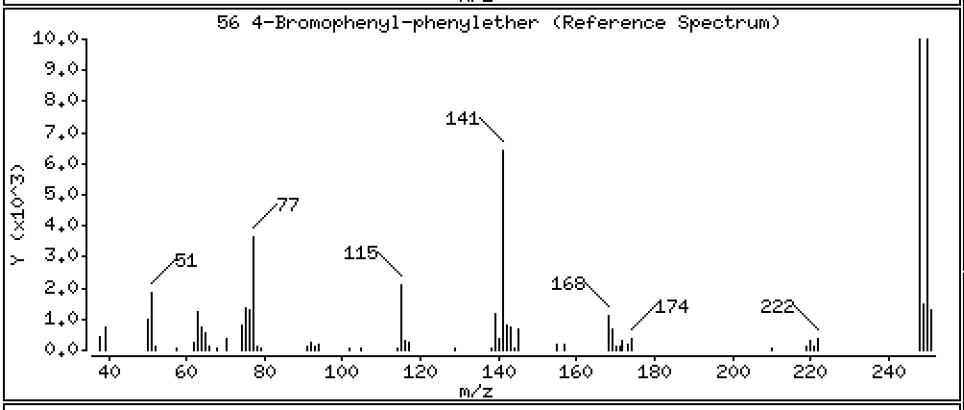
Column diameter: 0.25

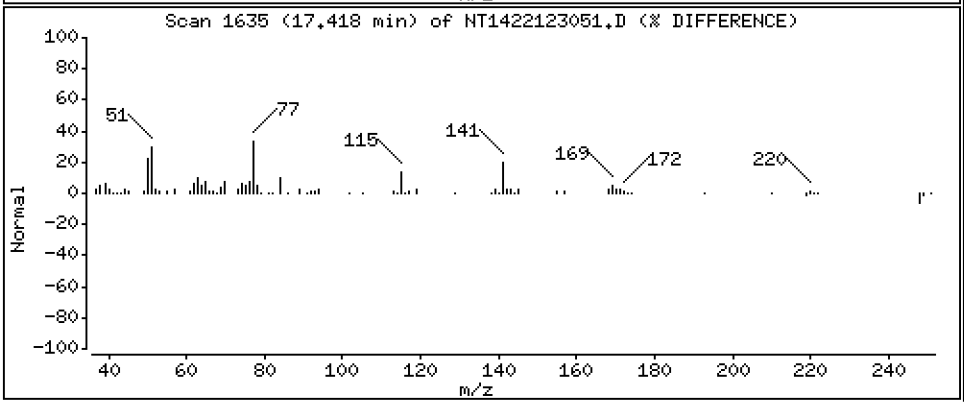
56 4-Bromophenyl-phenylether

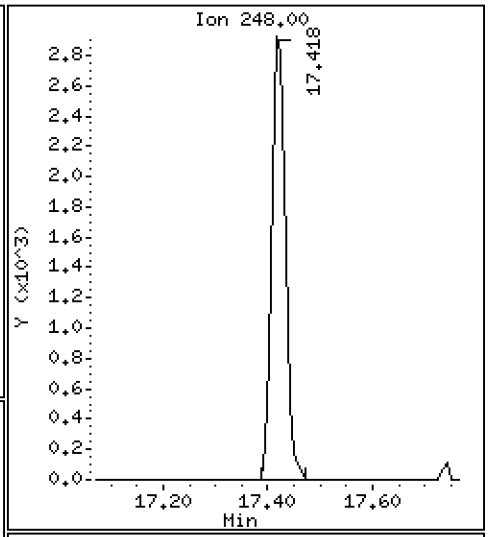
Concentration: 0.2274 ug/mL

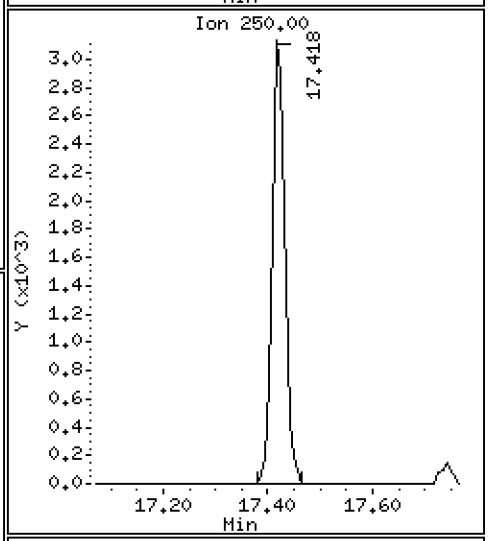


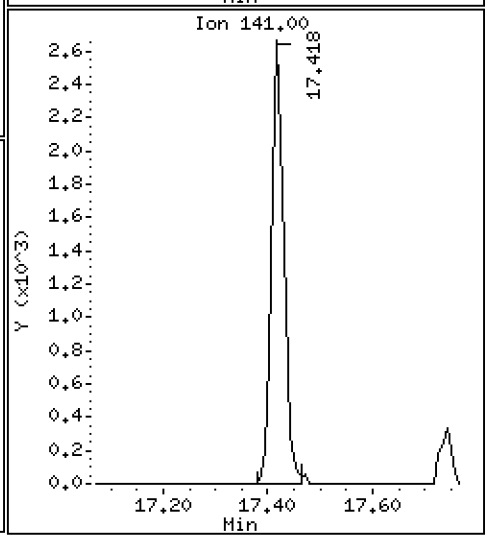












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

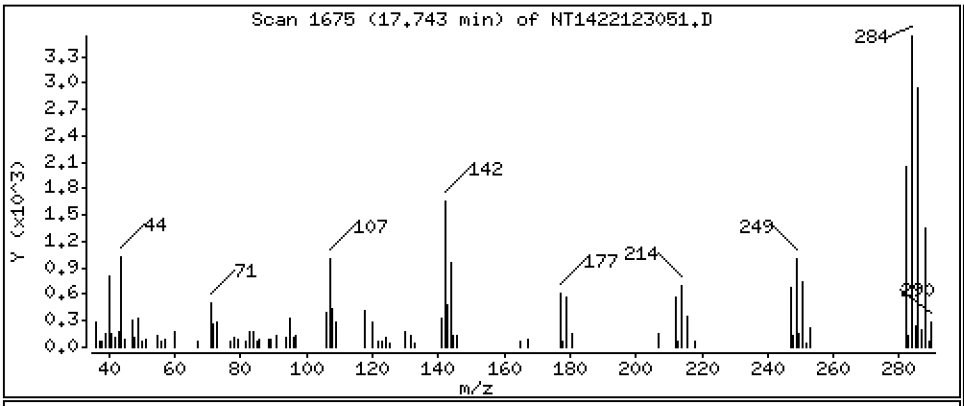
Operator: VTS

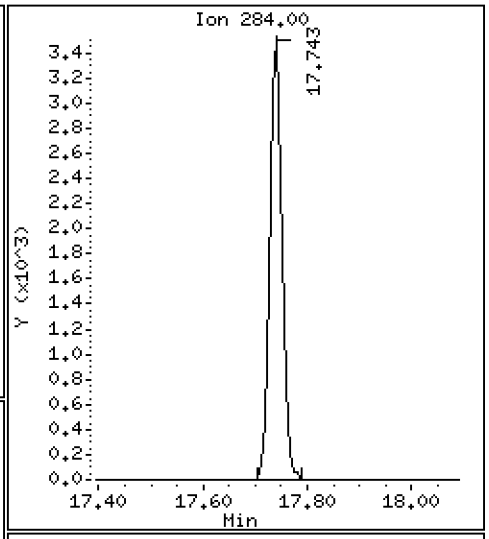
Column phase: ZB-5msi

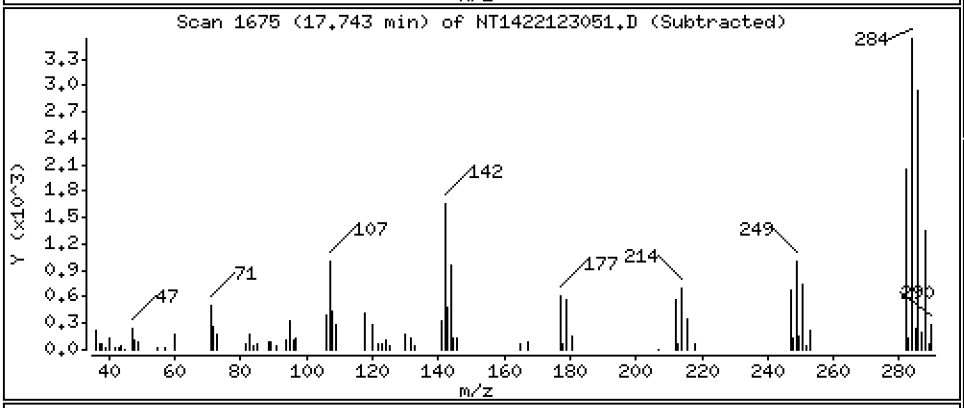
Column diameter: 0.25

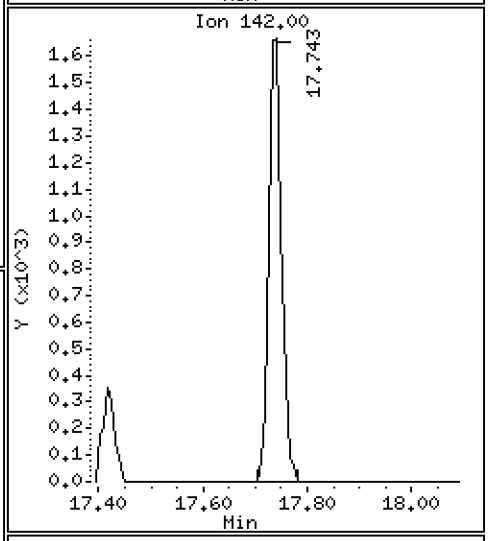
57 Hexachlorobenzene

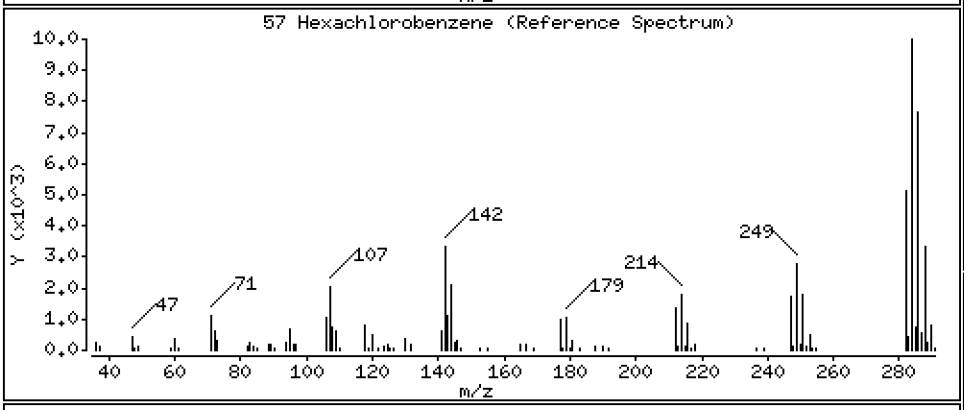
Concentration: 0.2291 ug/mL

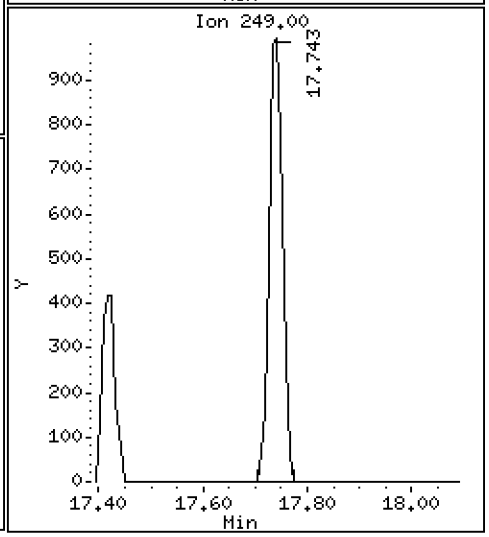


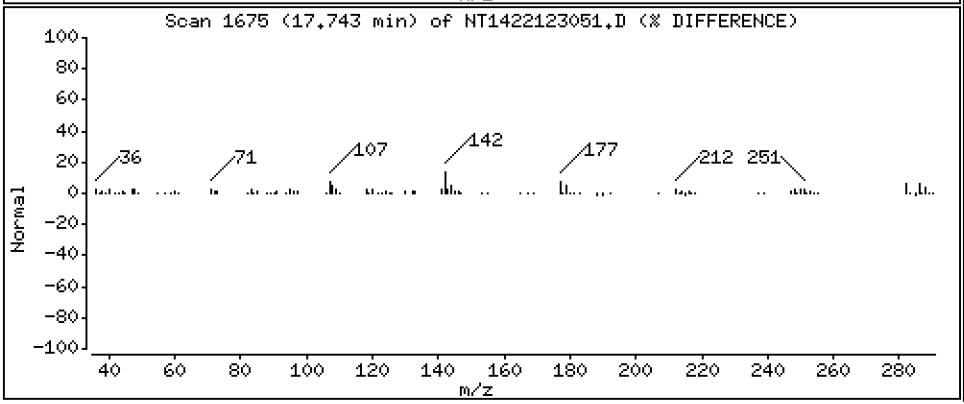












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

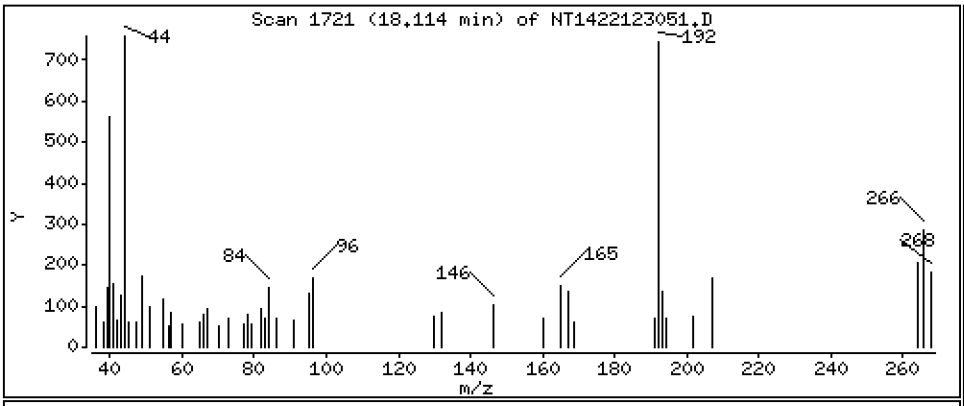
Operator: VTS

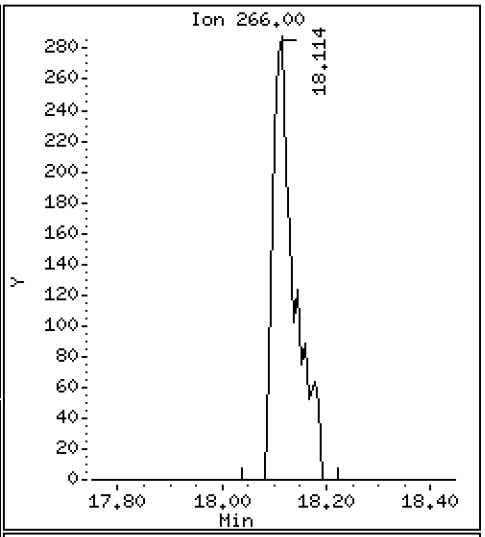
Column phase: ZB-5msi

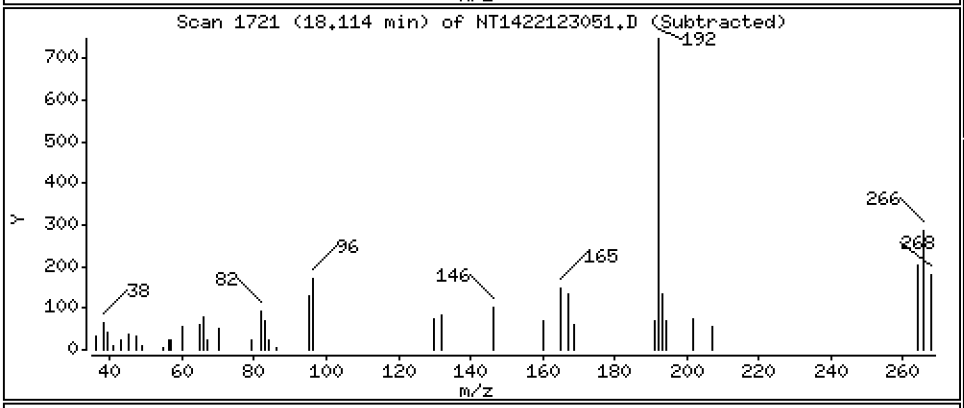
Column diameter: 0.25

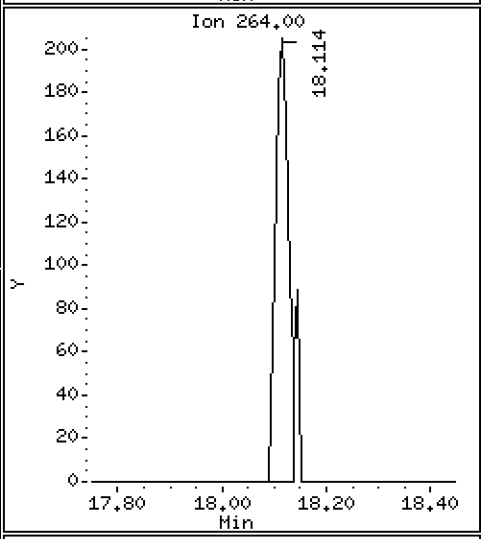
58 Pentachlorophenol

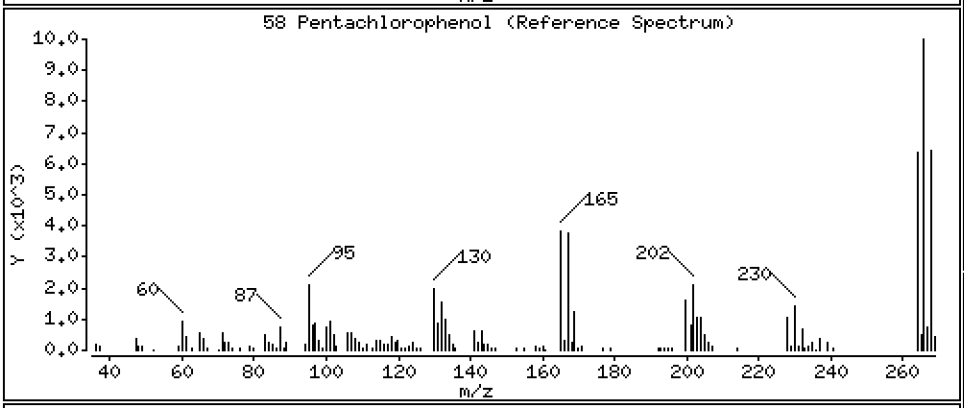
Concentration: 0.07669 ug/mL

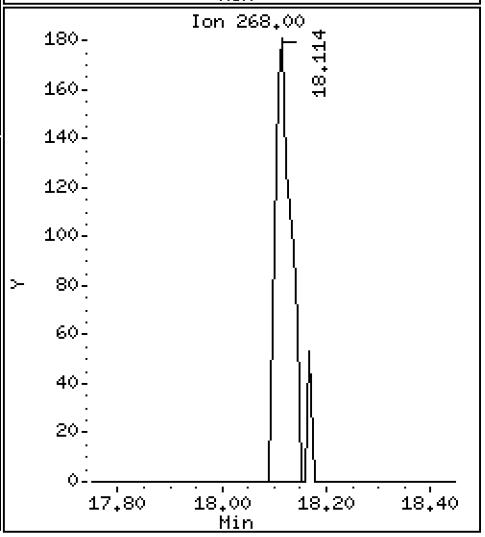


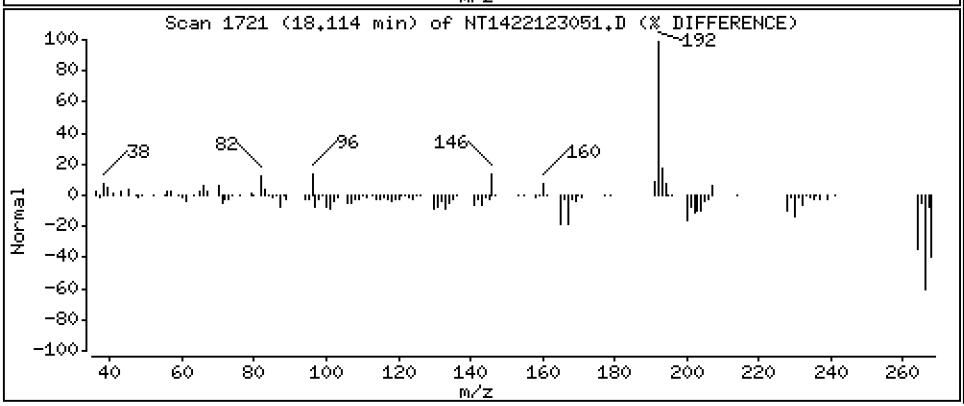












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

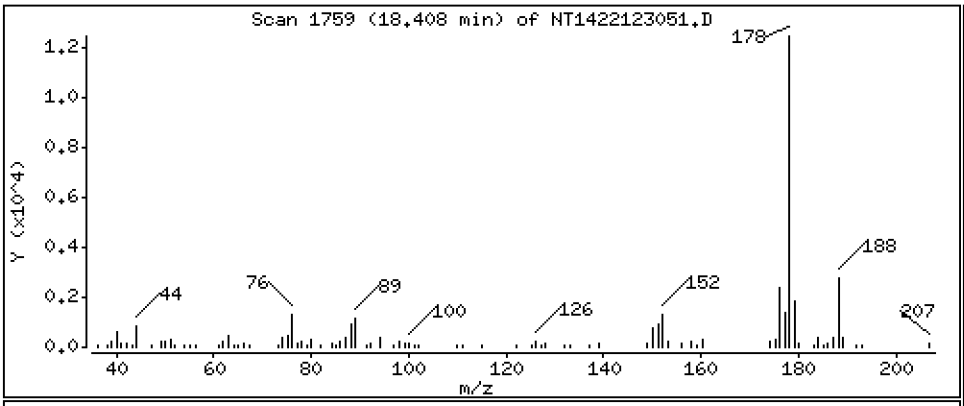
Operator: VTS

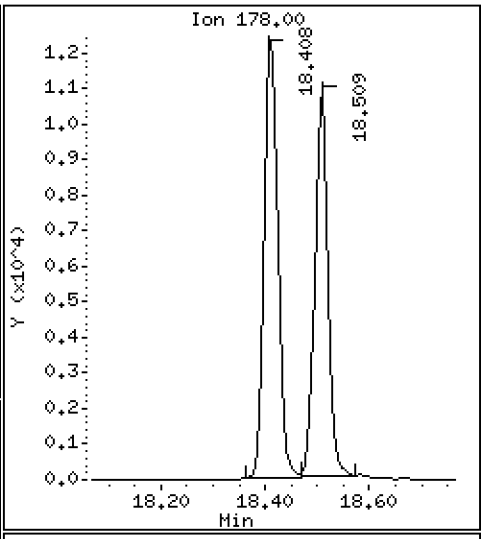
Column phase: ZB-5msi

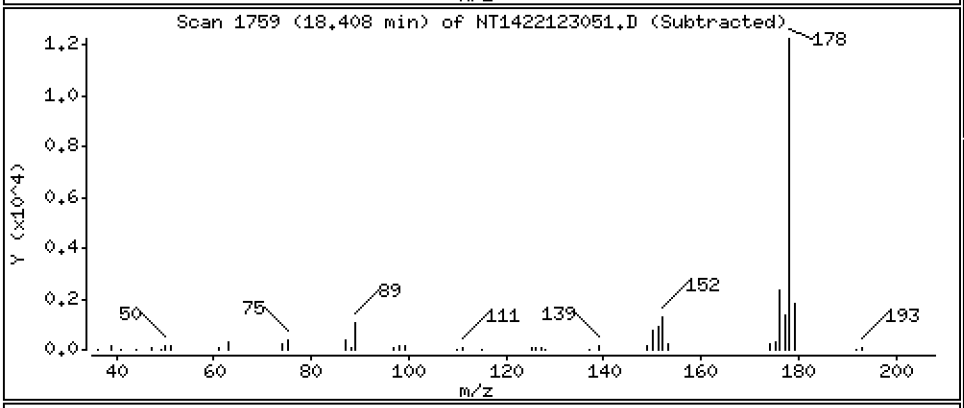
Column diameter: 0.25

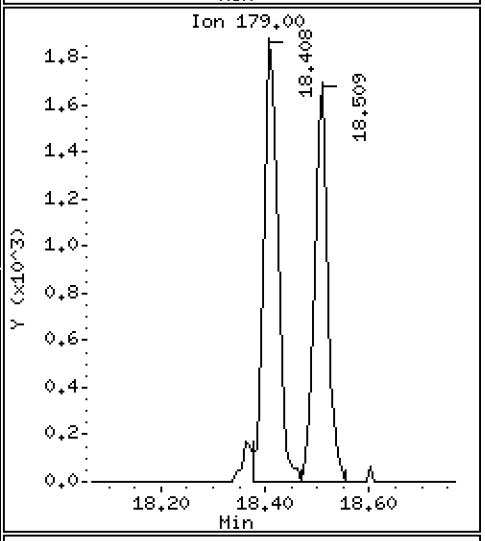
60 Phenanthrene

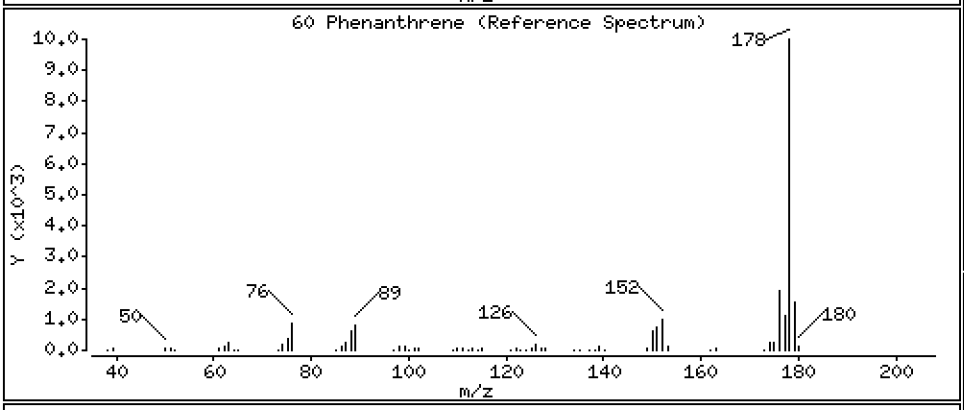
Concentration: 0.2415 ug/mL

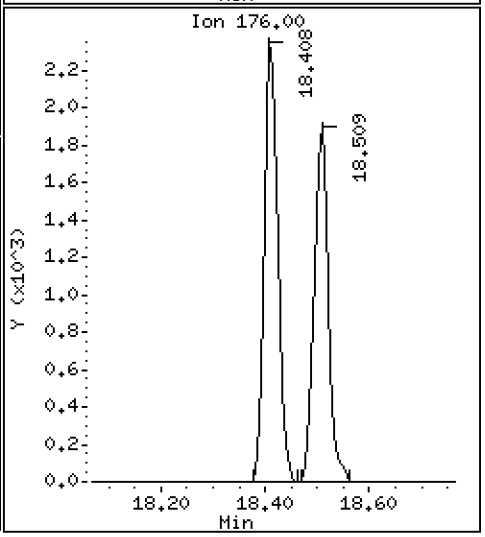


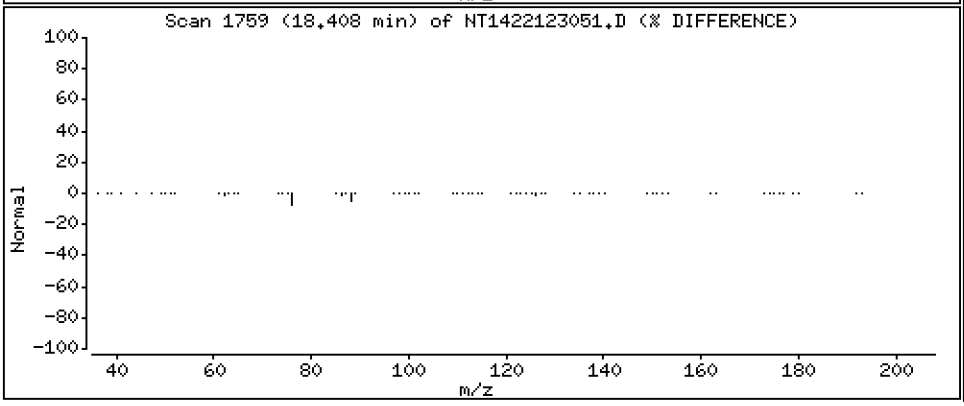












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

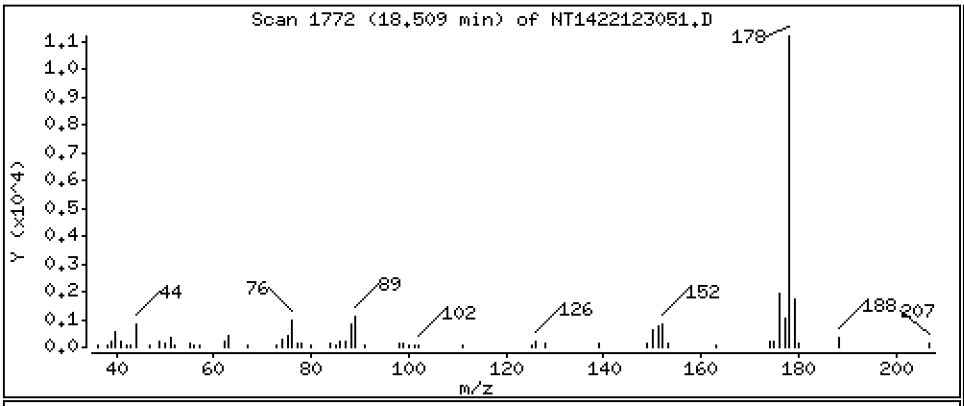
Operator: VTS

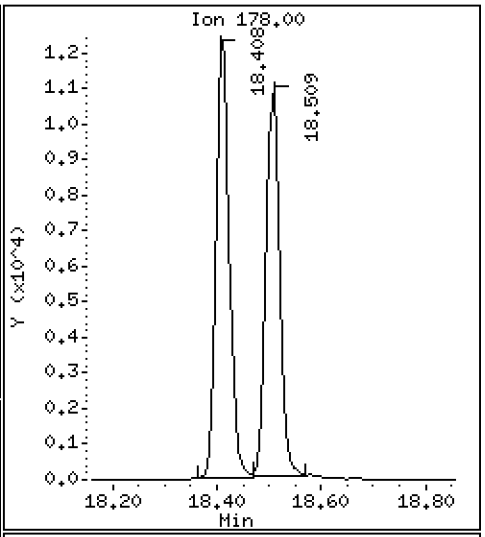
Column phase: ZB-5msi

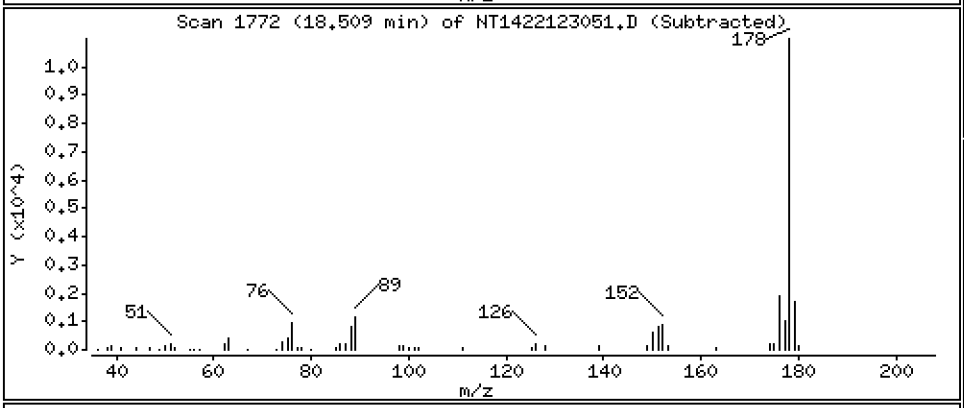
Column diameter: 0.25

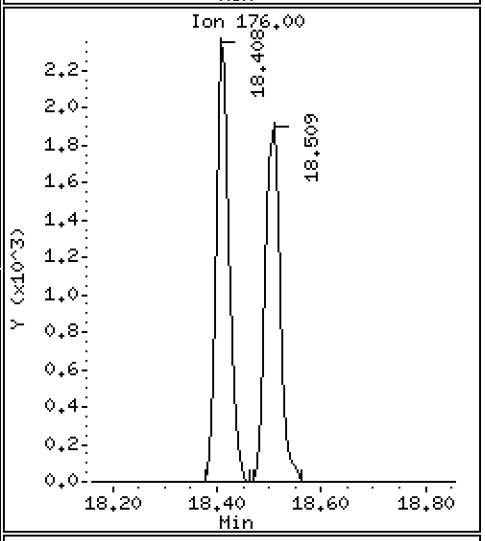
61 Anthracene

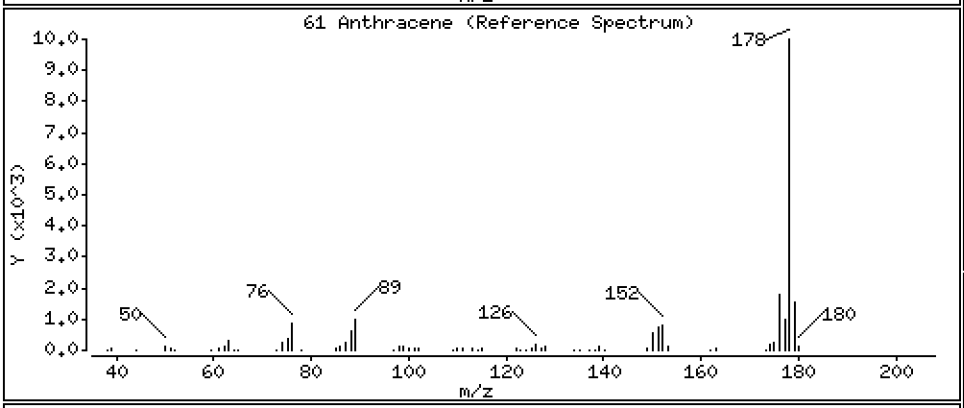
Concentration: 0.2183 ug/mL

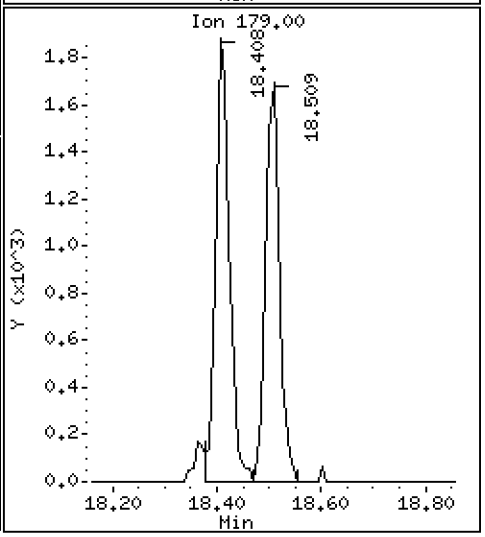


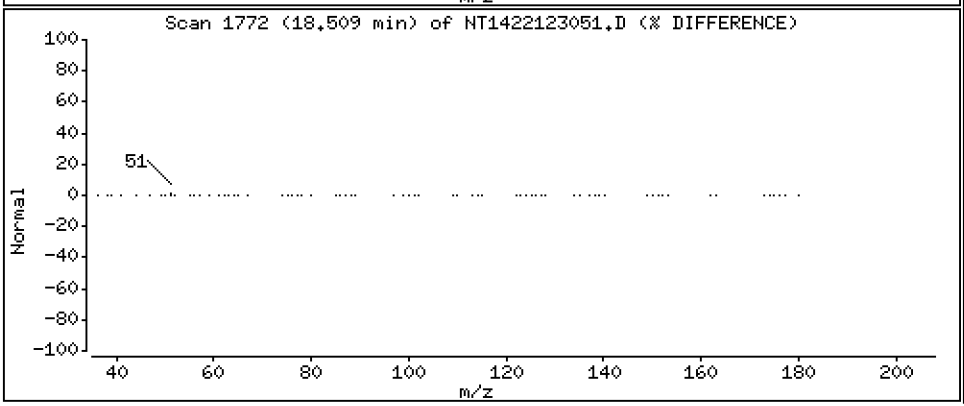












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

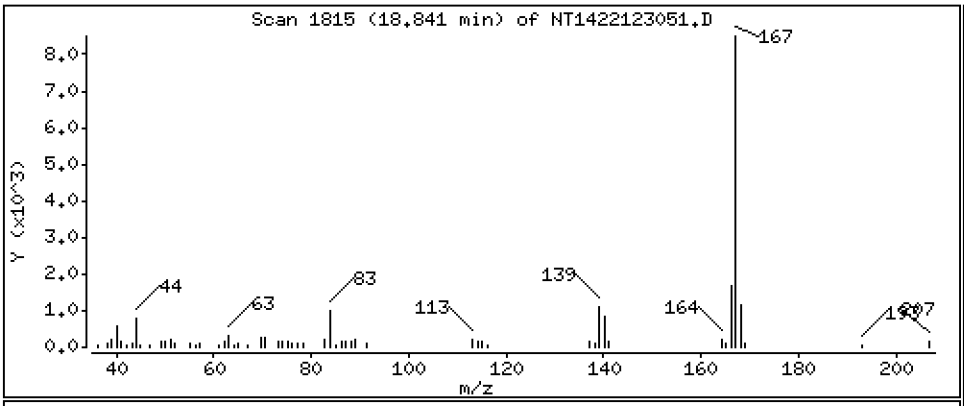
Operator: VTS

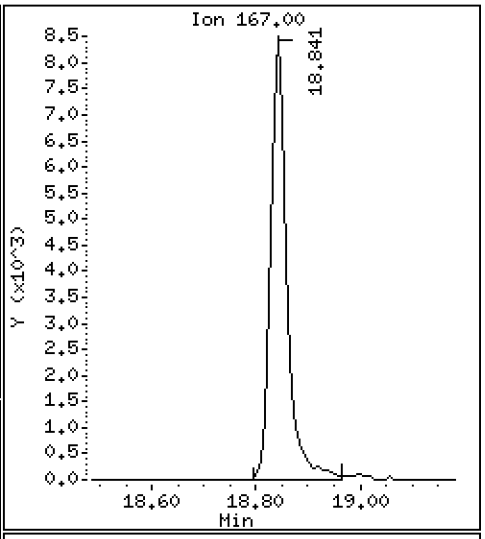
Column phase: ZB-5msi

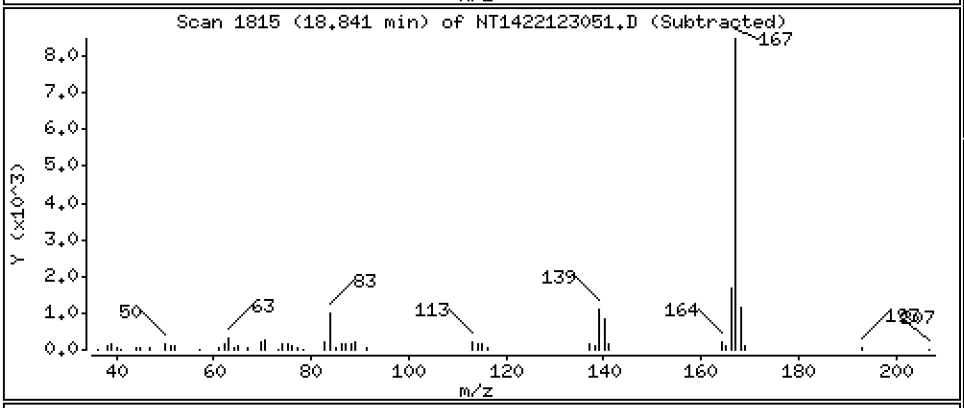
Column diameter: 0.25

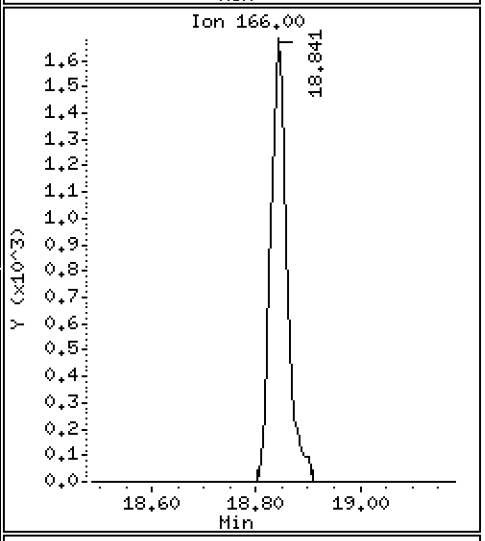
62 Carbazole

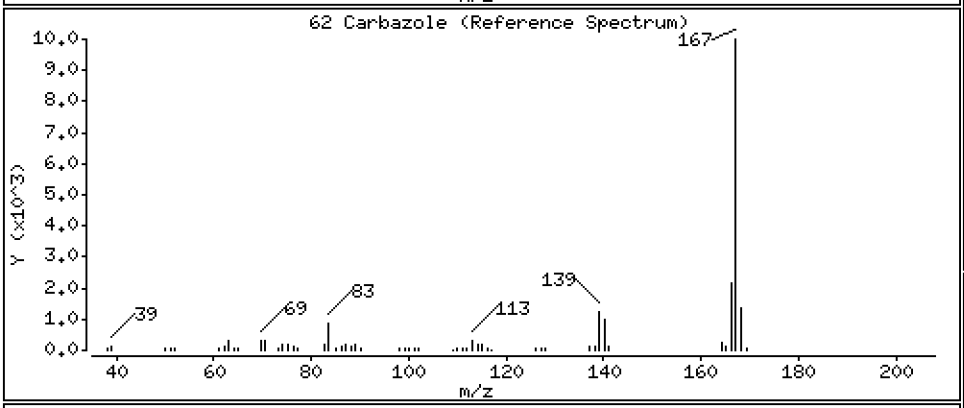
Concentration: 0.2174 ug/mL

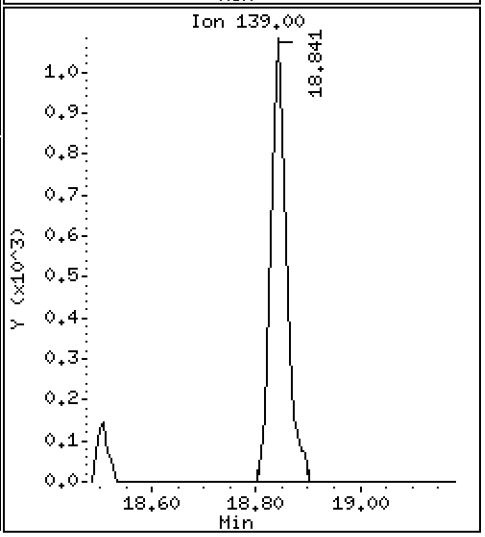


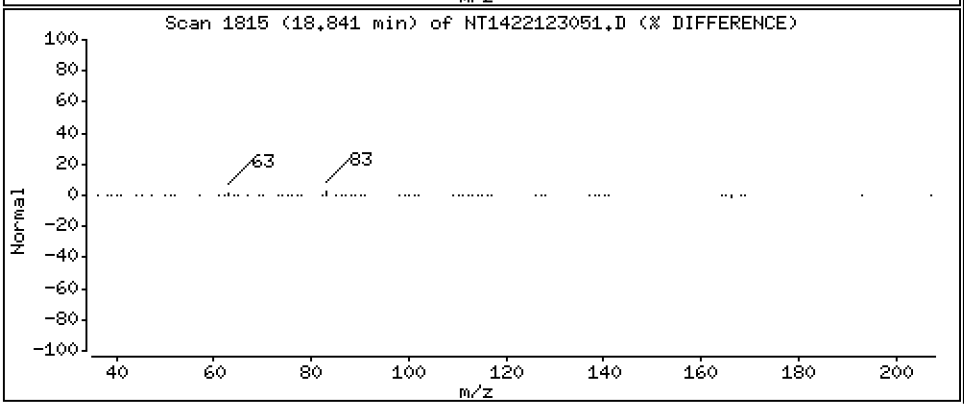












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

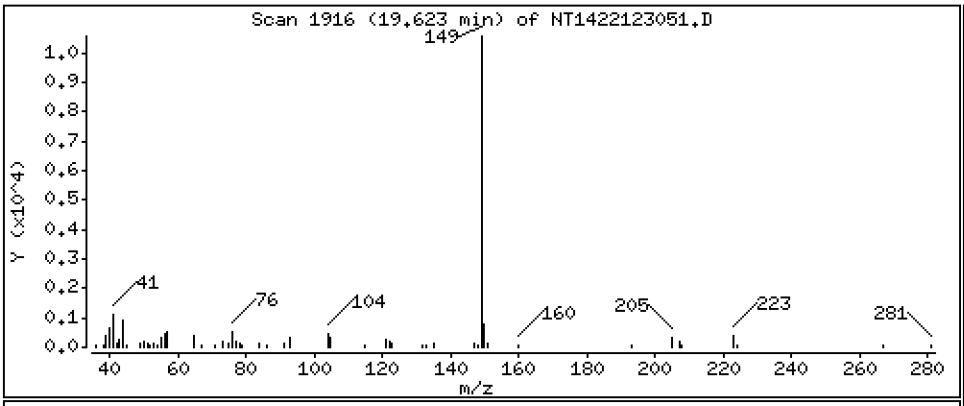
Operator: VTS

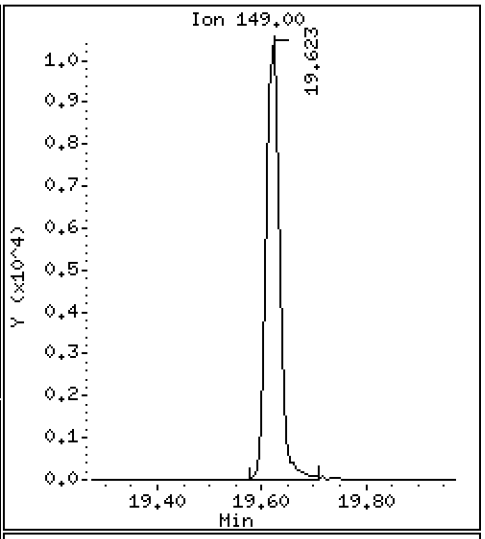
Column phase: ZB-5msi

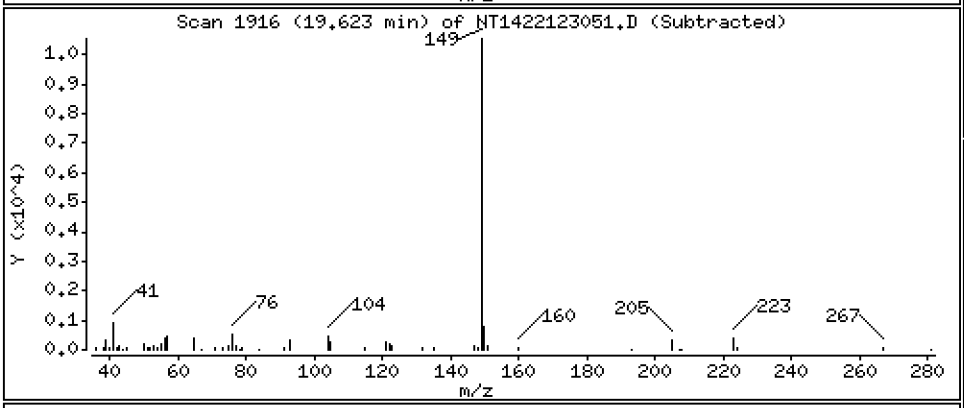
Column diameter: 0.25

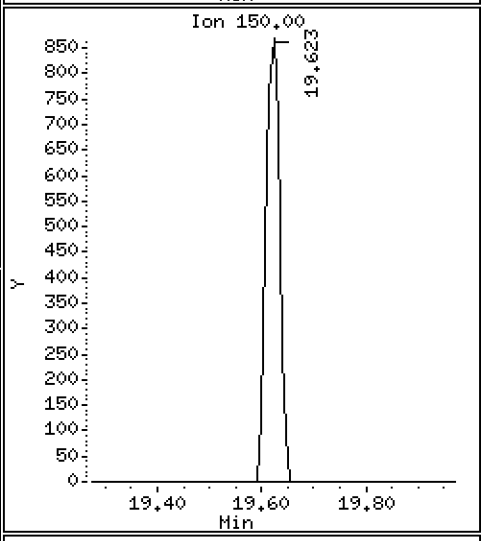
63 Di-n-butylphthalate

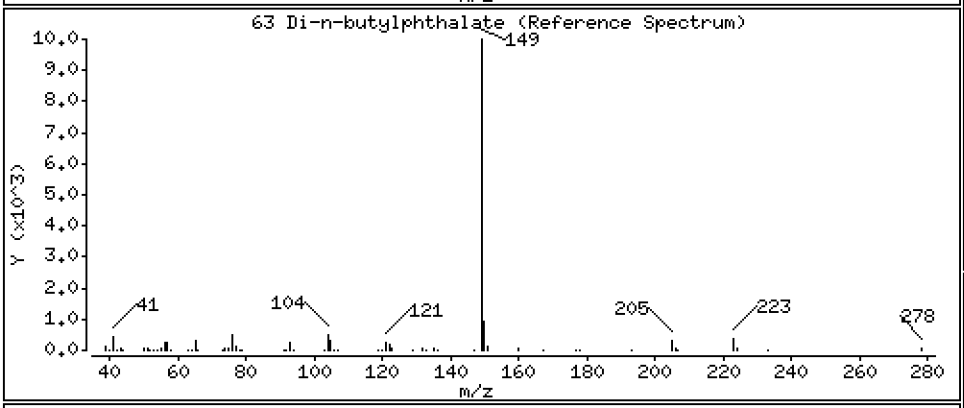
Concentration: 0.1906 ug/mL

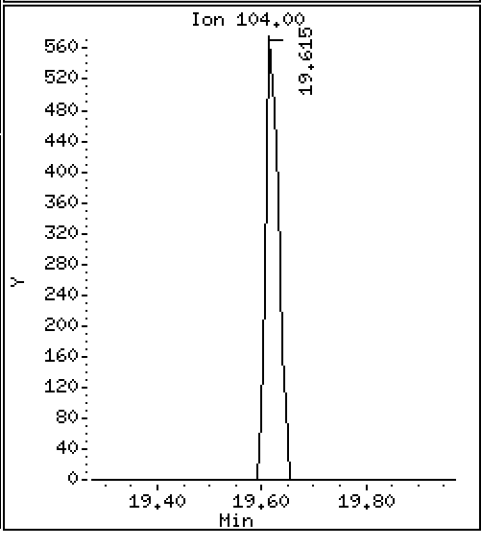


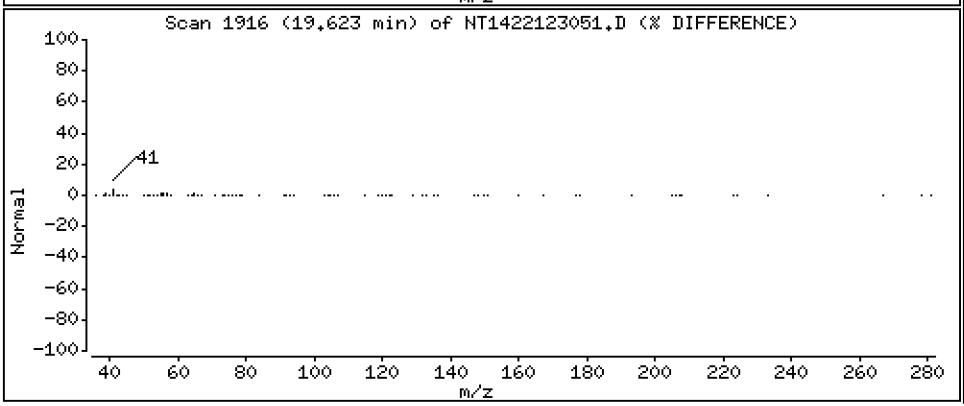












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

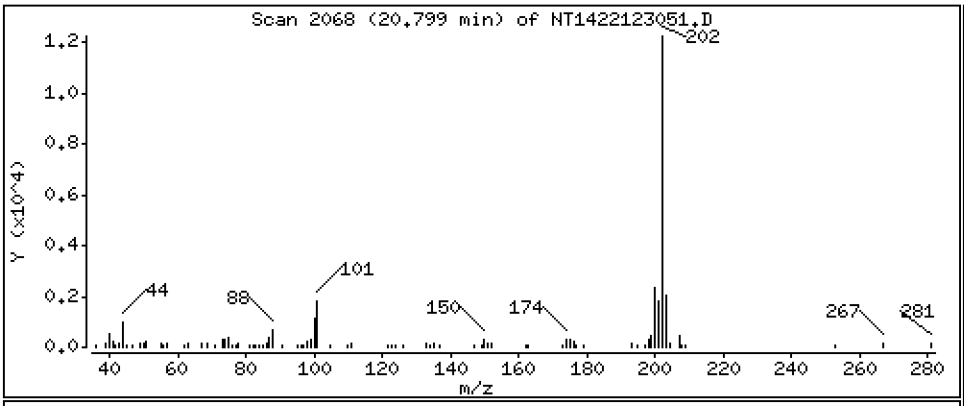
Operator: VTS

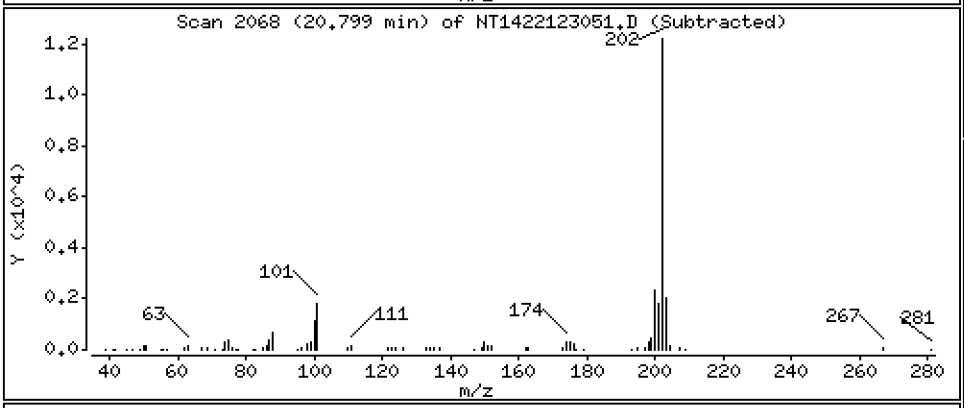
Column phase: ZB-5msi

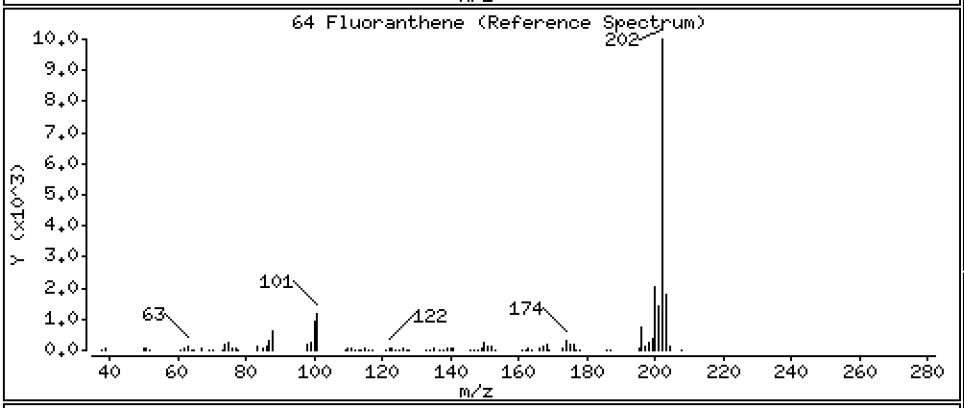
Column diameter: 0.25

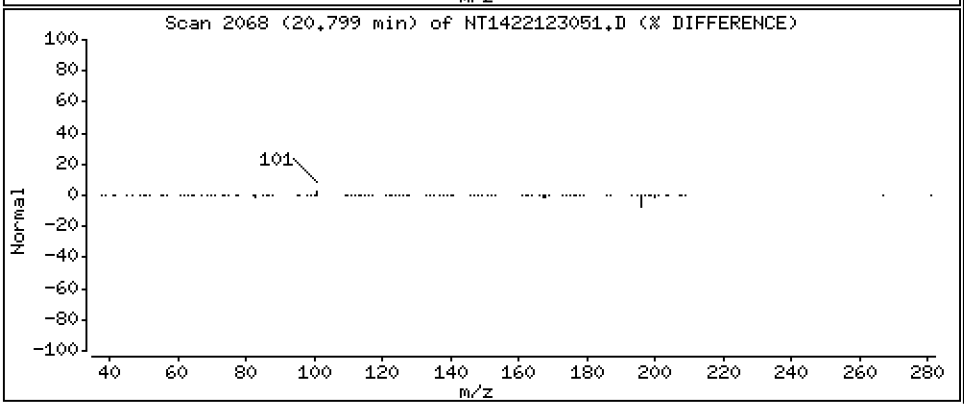
64 Fluoranthene

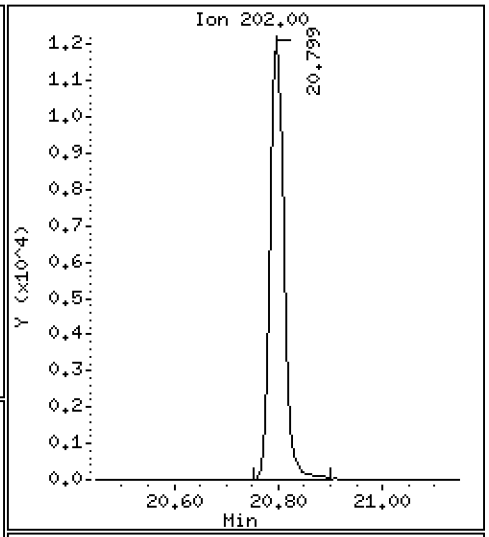
Concentration: 0.2308 ug/mL

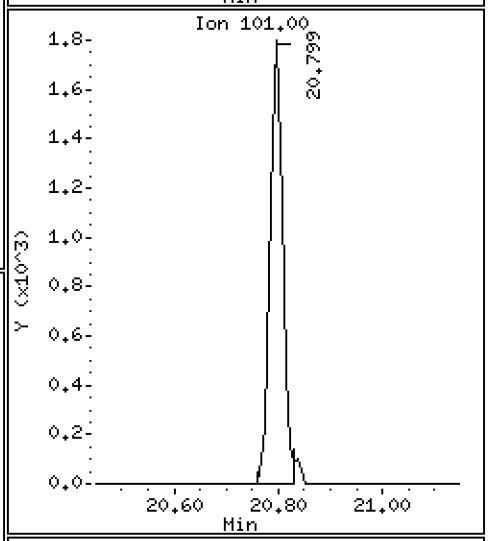


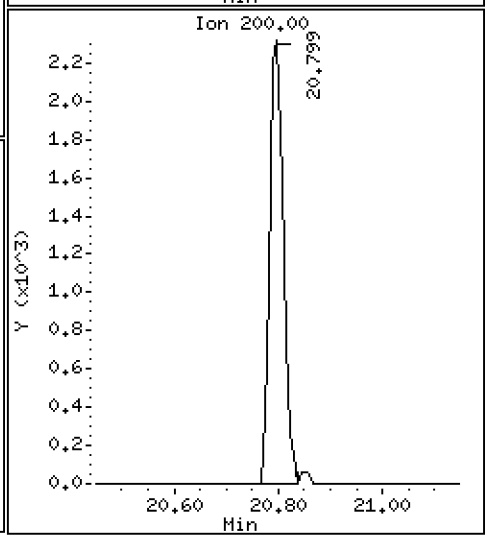












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

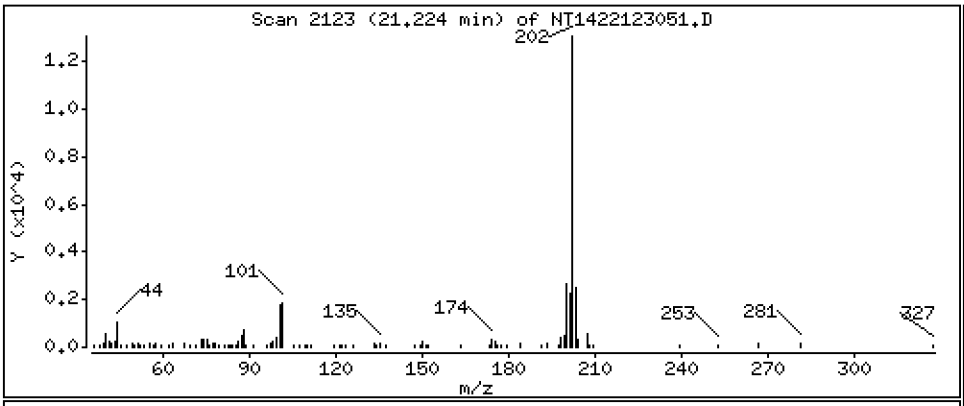
Operator: VTS

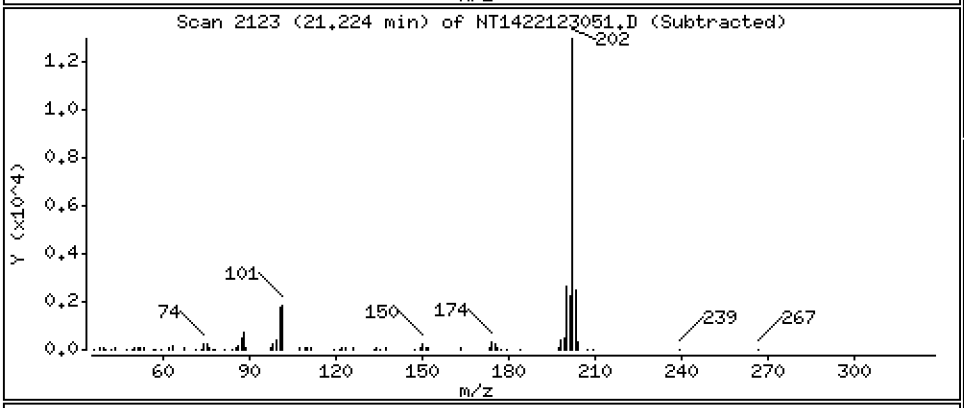
Column phase: ZB-5msi

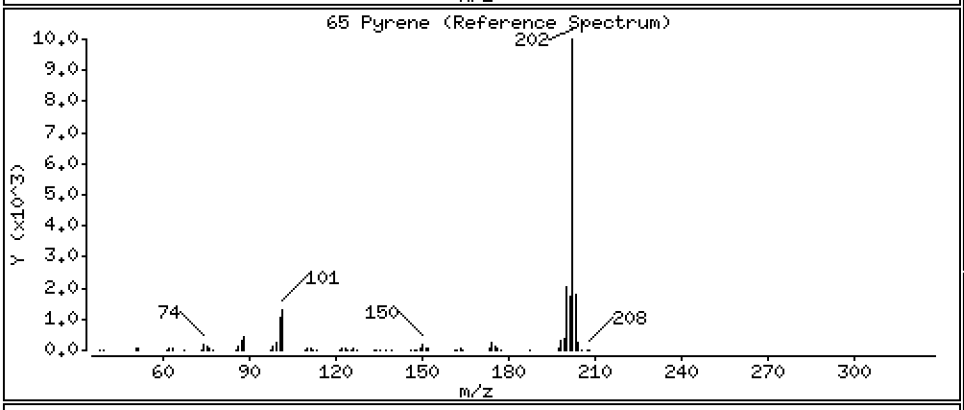
Column diameter: 0.25

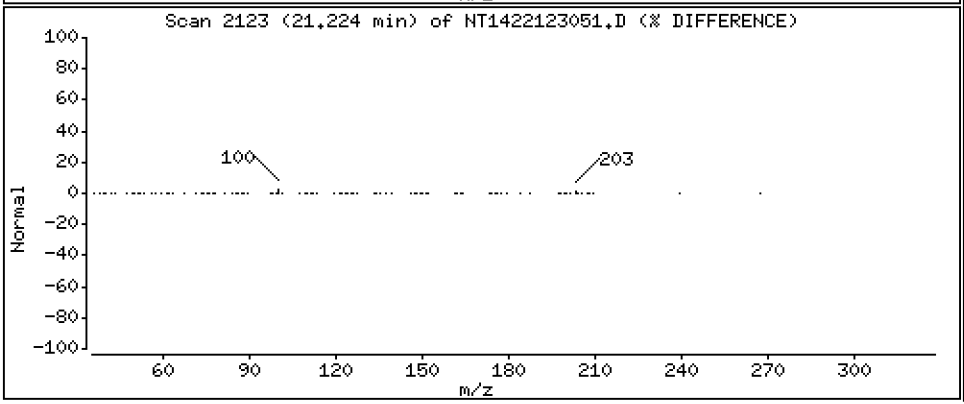
65 Pyrene

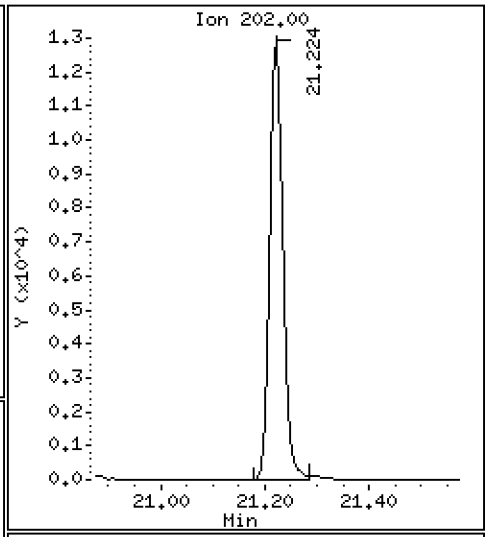
Concentration: 0.2212 ug/mL

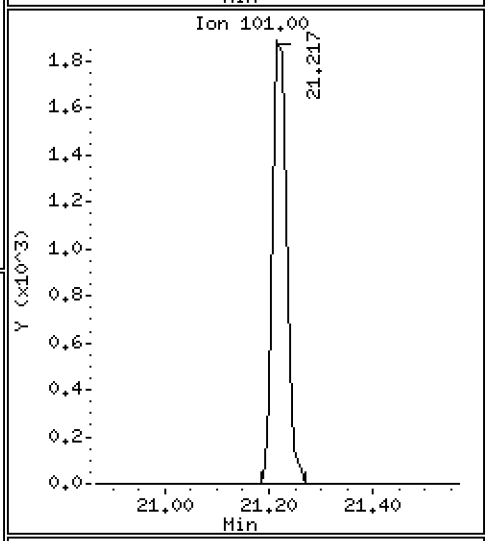


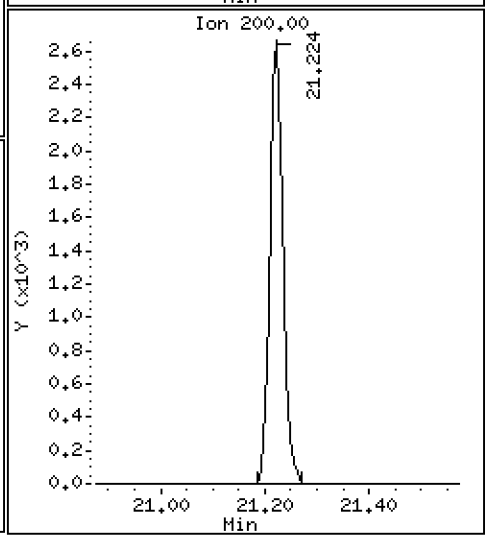












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

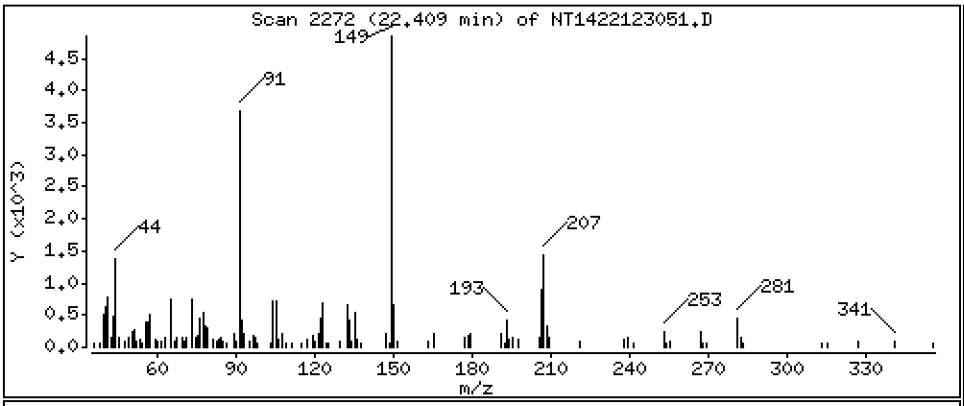
Operator: VTS

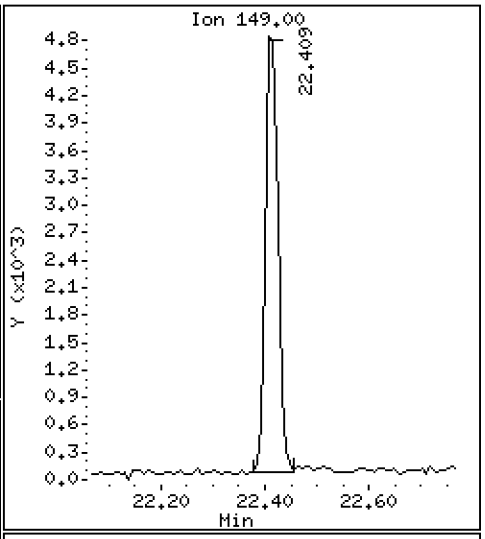
Column phase: ZB-5msi

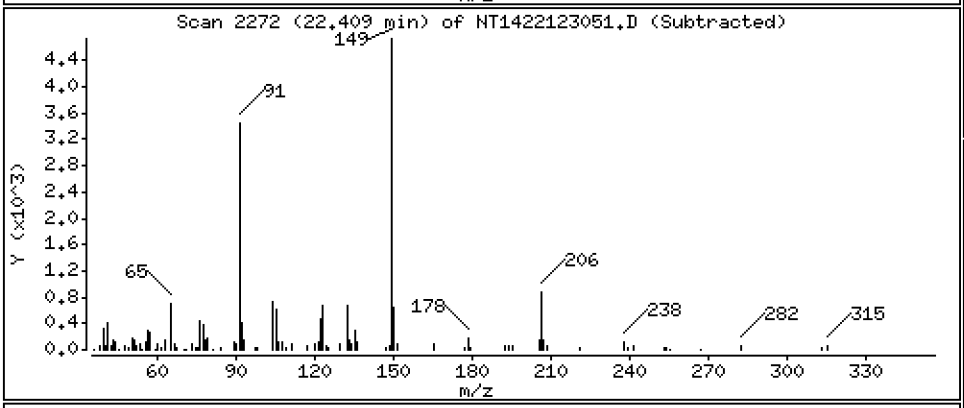
Column diameter: 0.25

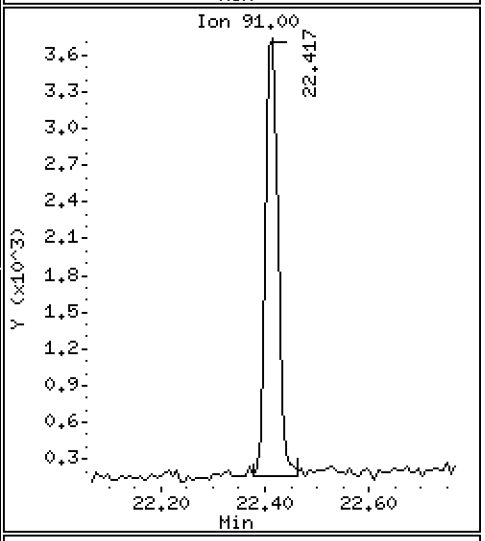
67 Butylbenzylphthalate

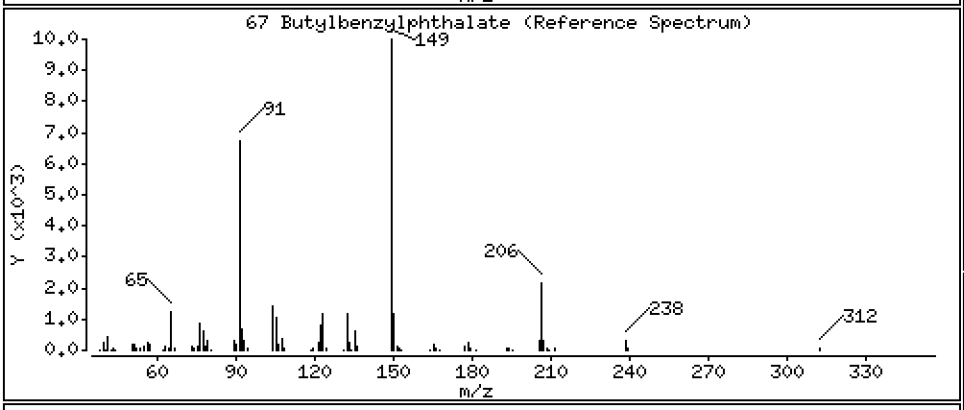
Concentration: 0.2080 ug/mL

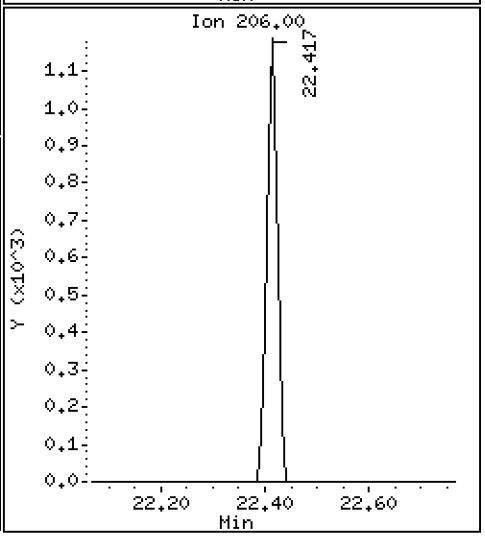


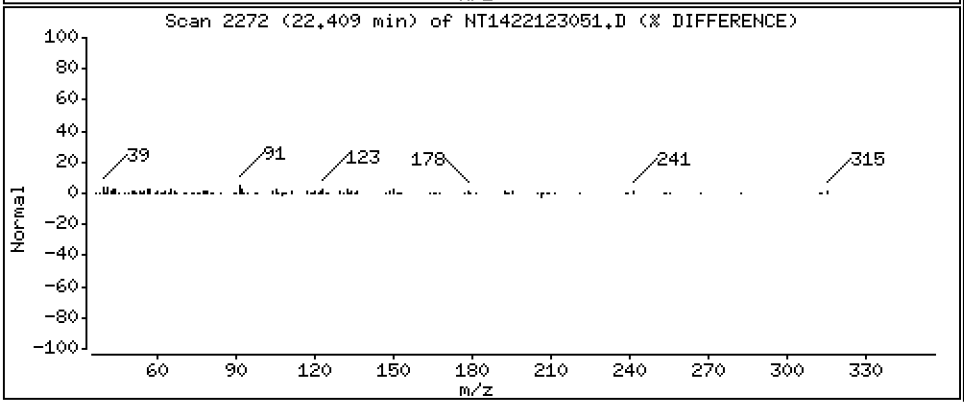












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

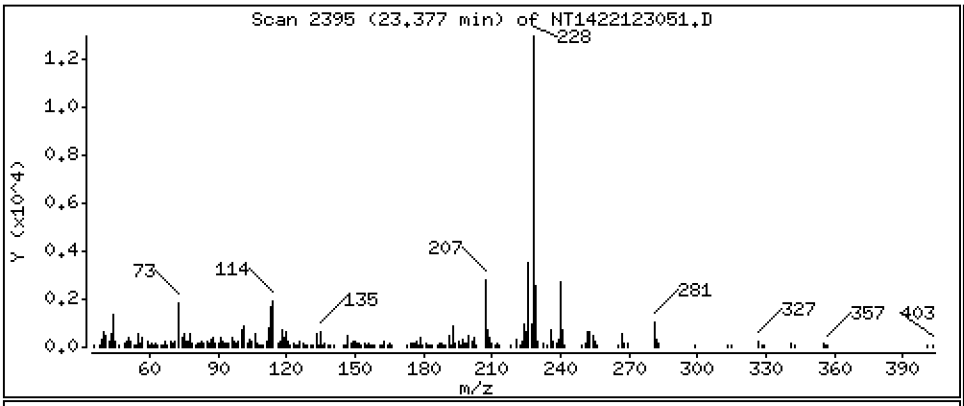
Operator: VTS

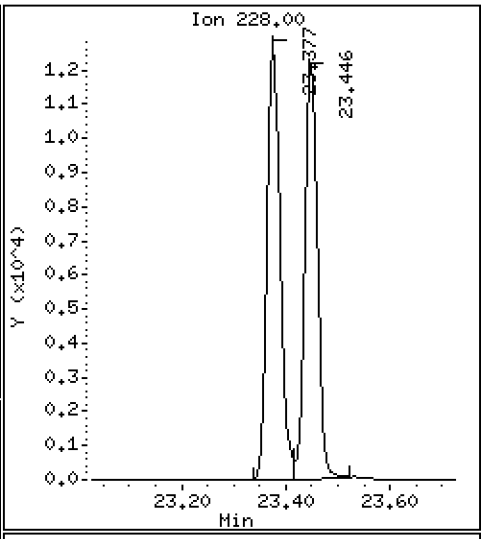
Column phase: ZB-5msi

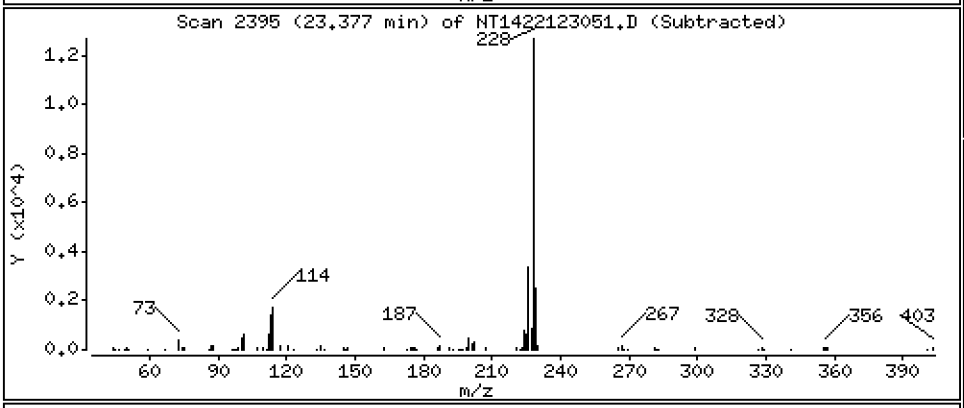
Column diameter: 0.25

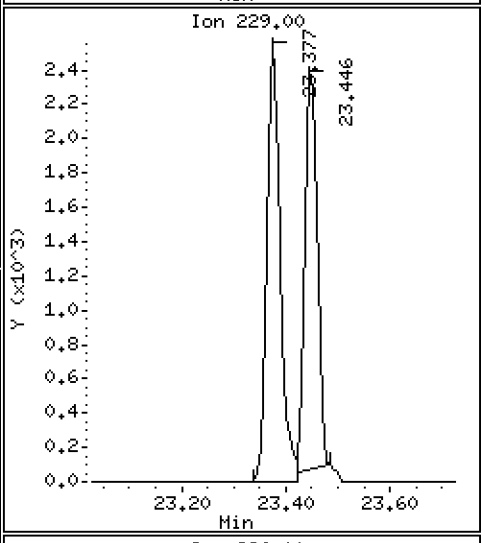
68 Benzo(a)anthracene

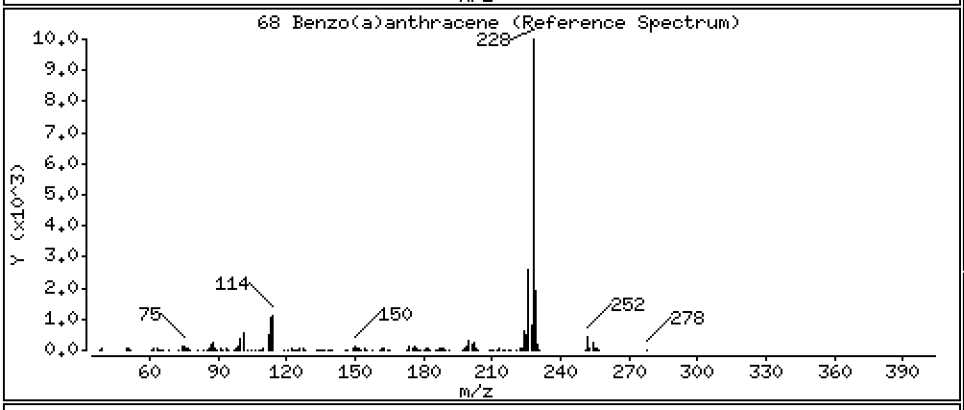
Concentration: 0.2415 ug/mL

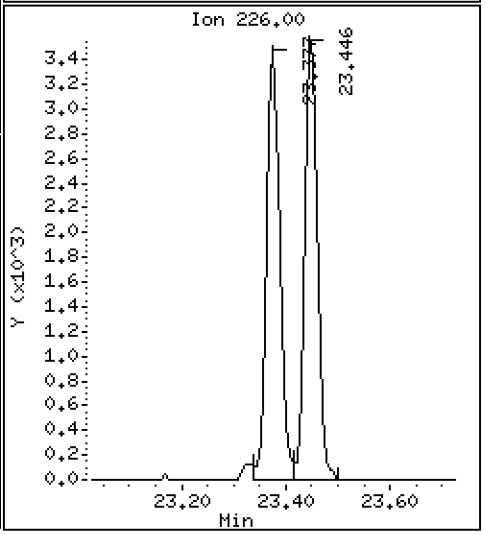


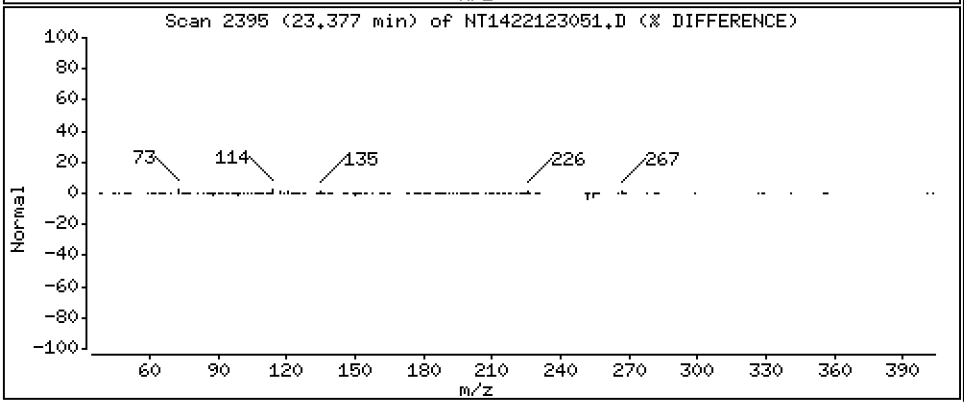












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

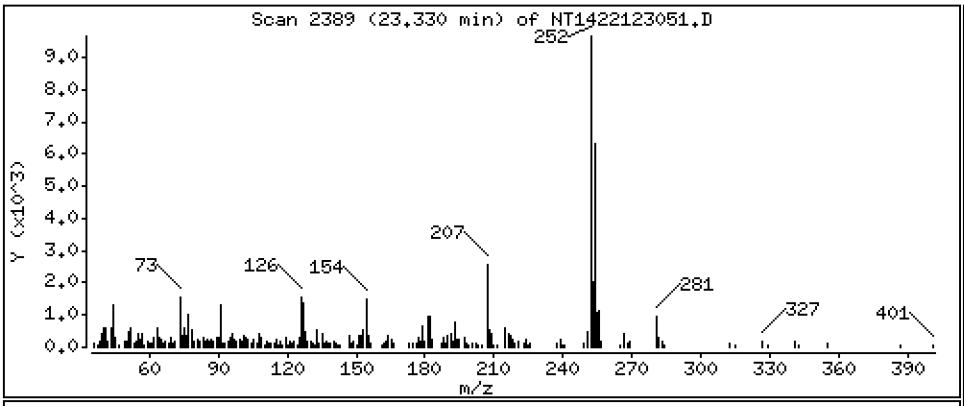
Operator: VTS

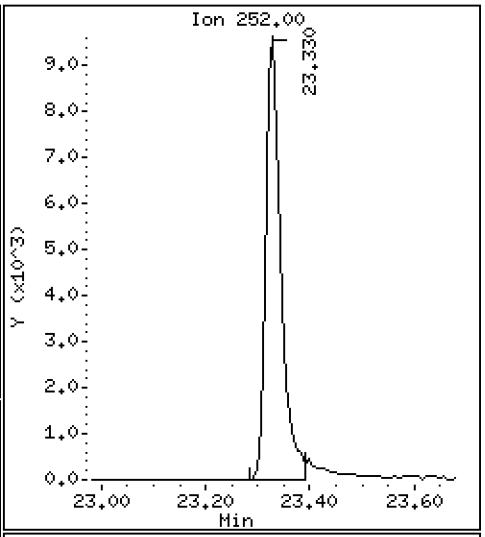
Column phase: ZB-5msi

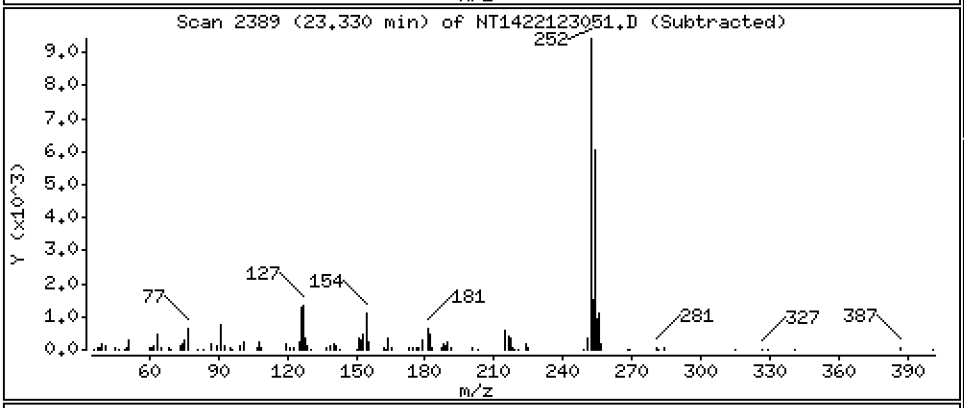
Column diameter: 0.25

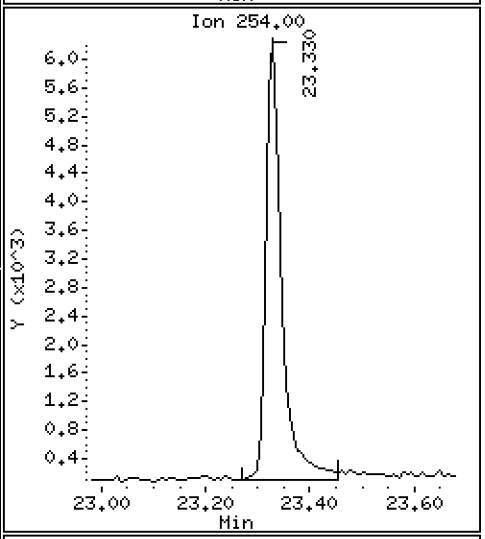
70 3,3'-Dichlorobenzidine

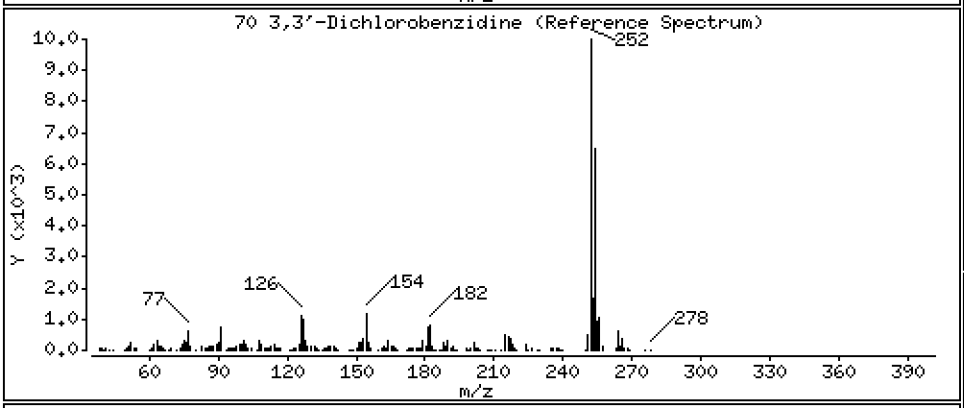
Concentration: 0.6962 ug/mL

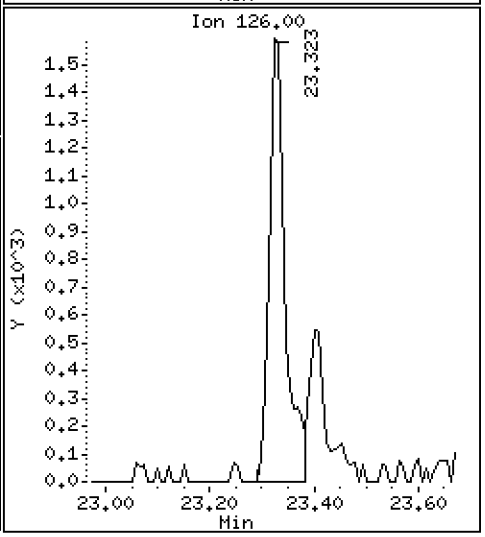


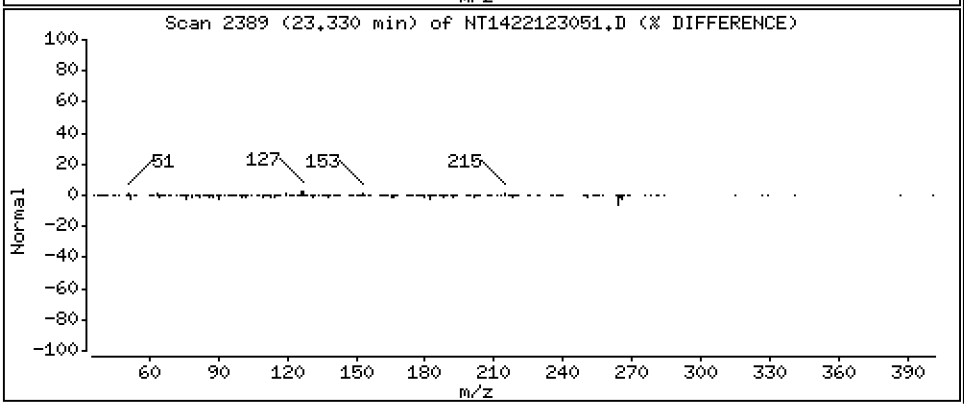












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

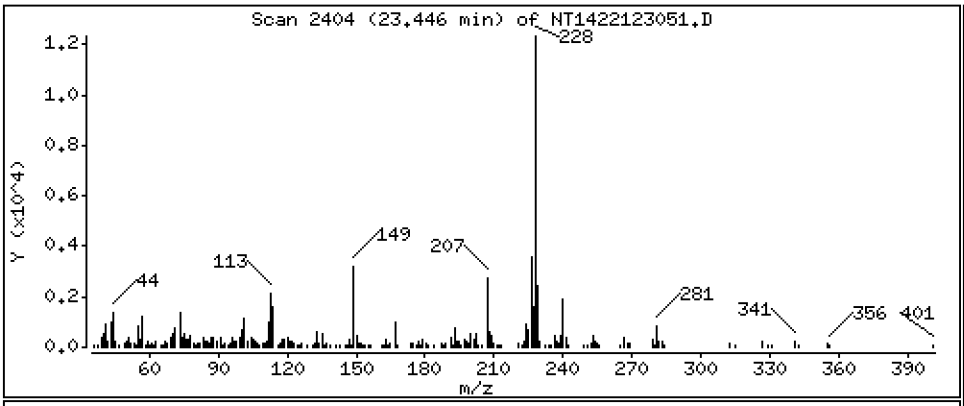
Operator: VTS

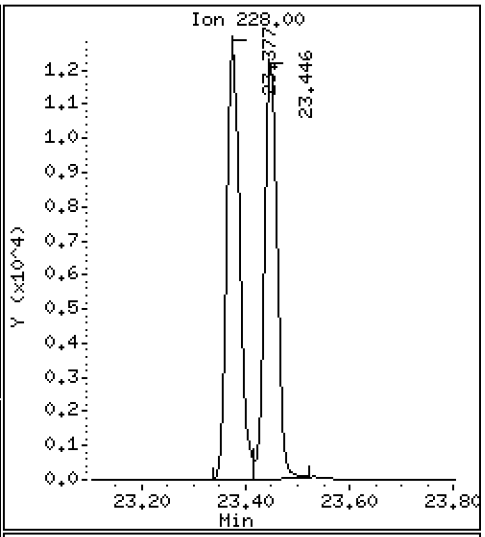
Column phase: ZB-5msi

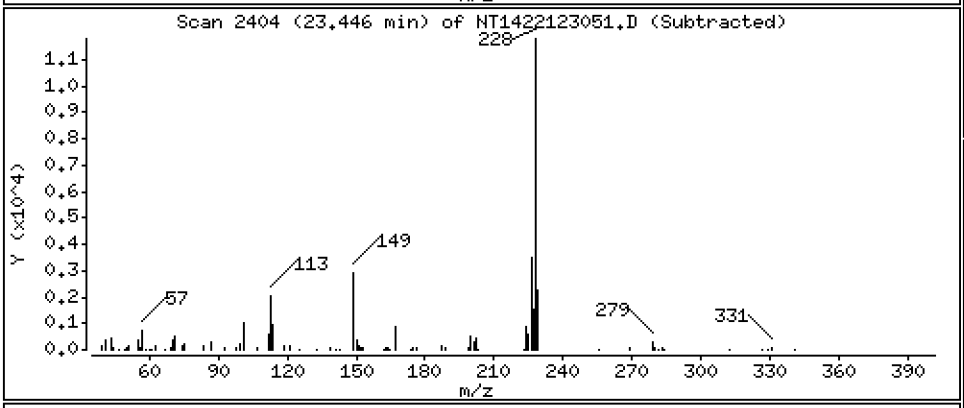
Column diameter: 0.25

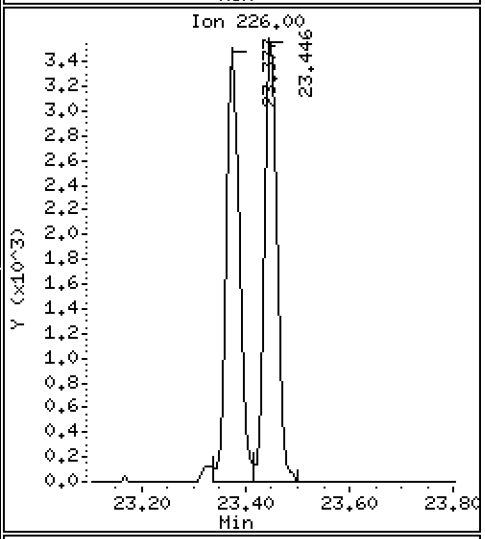
71 Chrysene

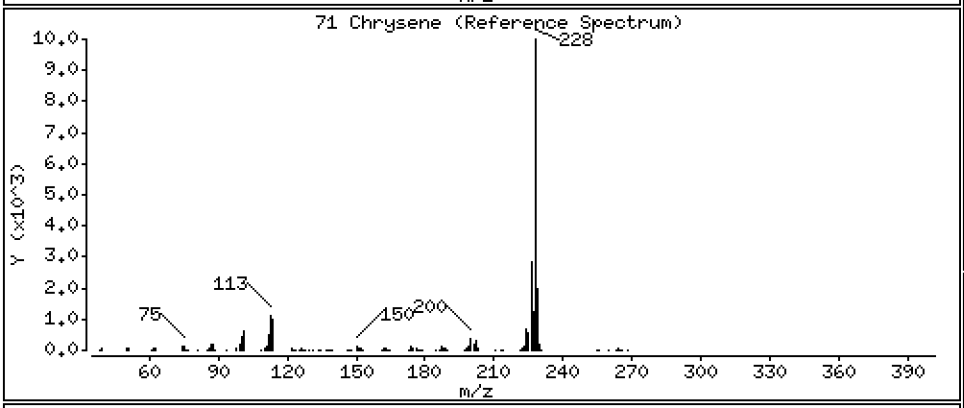
Concentration: 0.2414 ug/mL

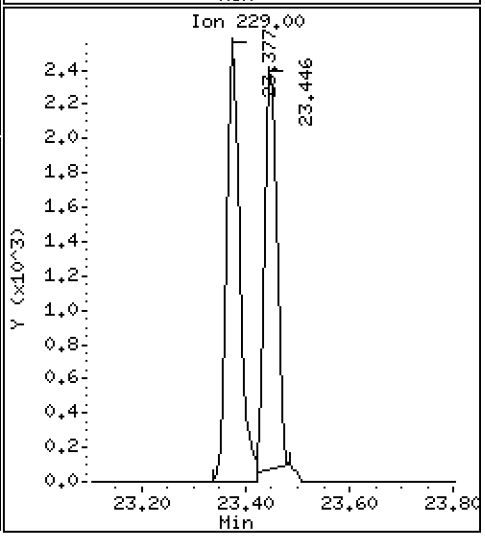


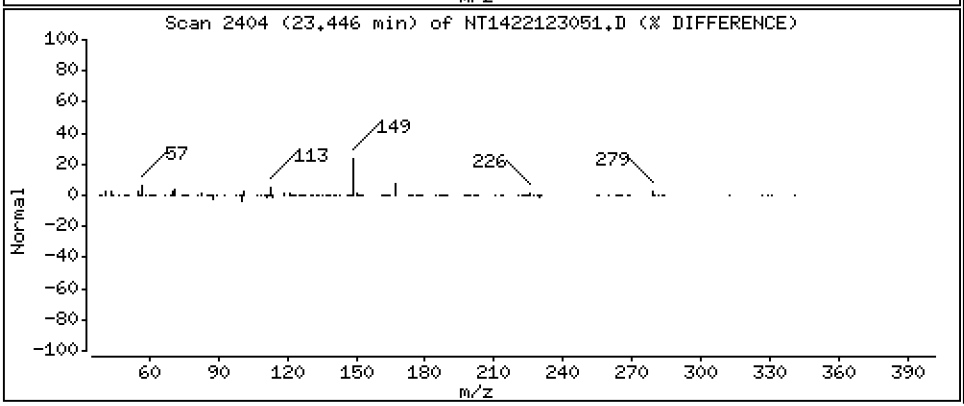












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

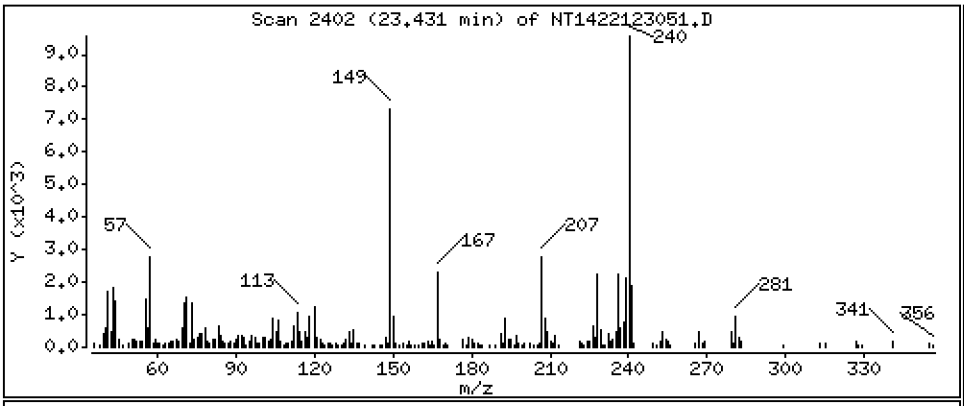
Operator: VTS

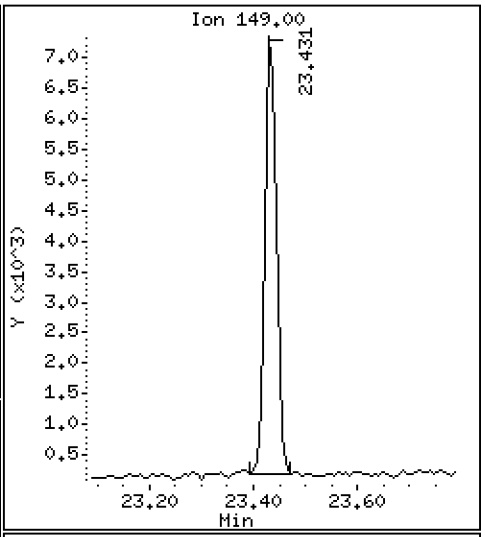
Column phase: ZB-5msi

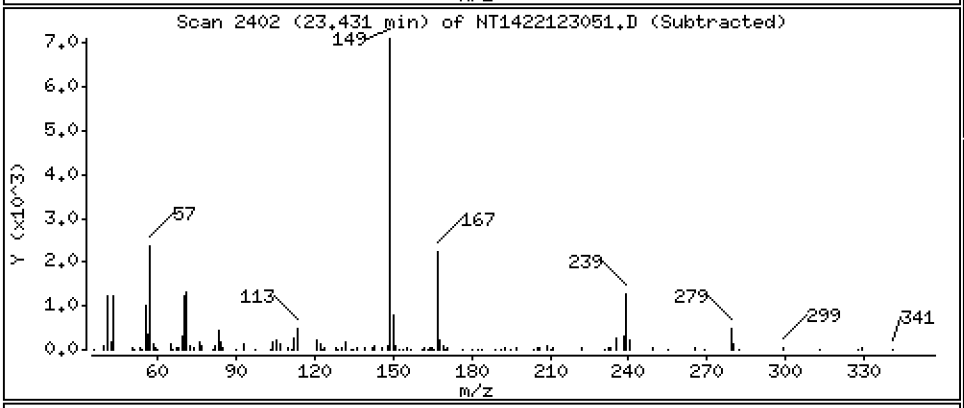
Column diameter: 0.25

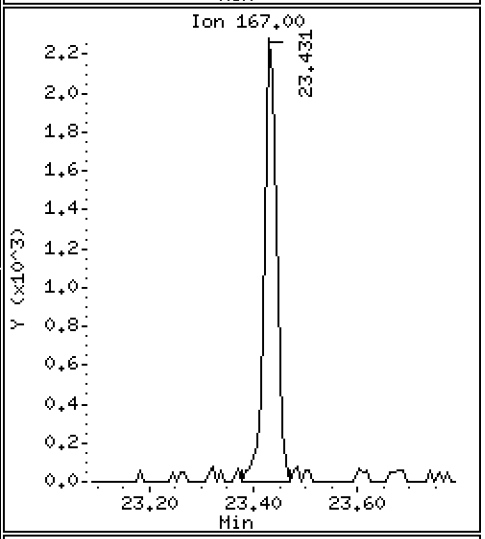
72 bis(2-Ethylhexyl)phthalate

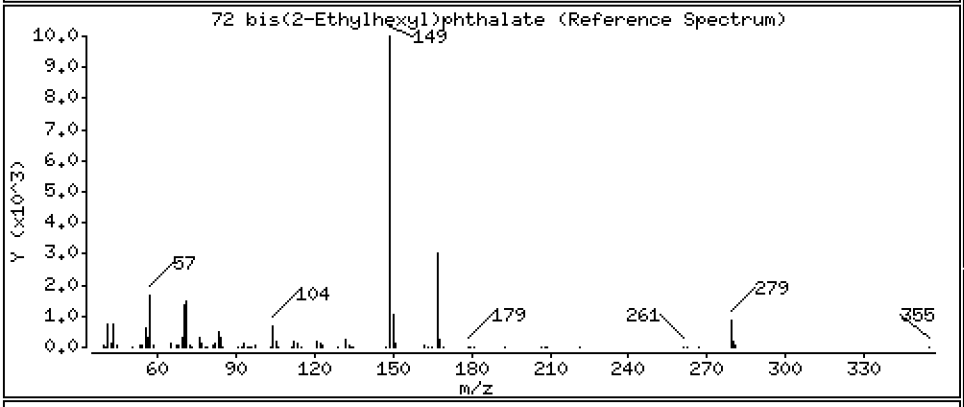
Concentration: 0.2185 ug/mL

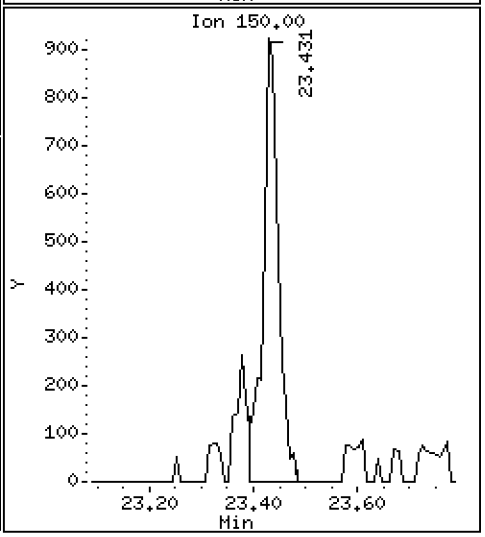


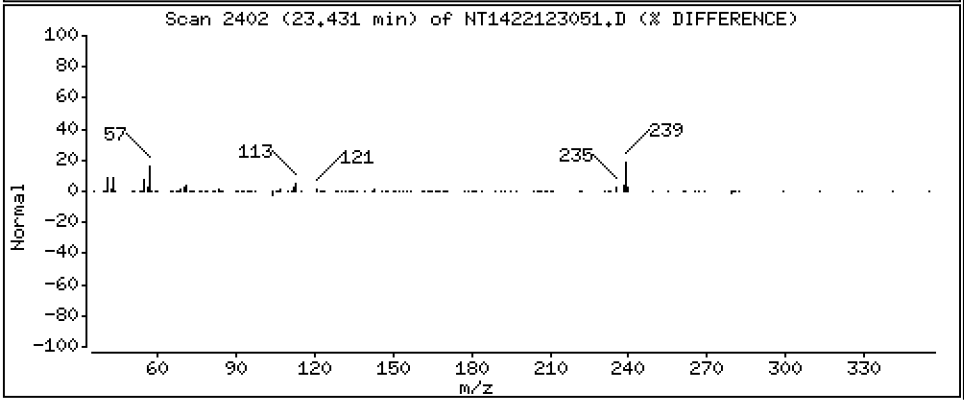












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

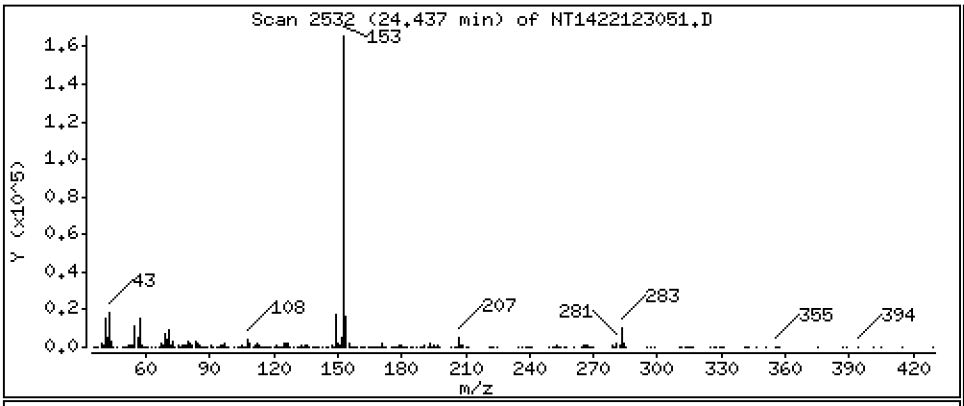
Operator: VTS

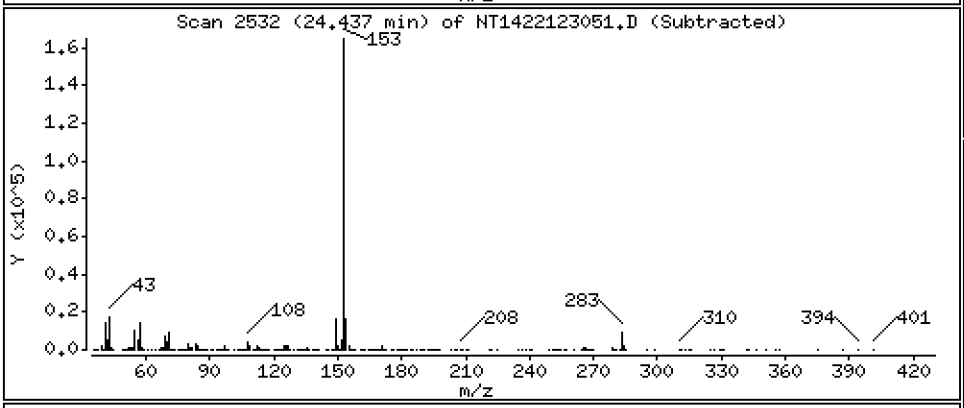
Column phase: ZB-5msi

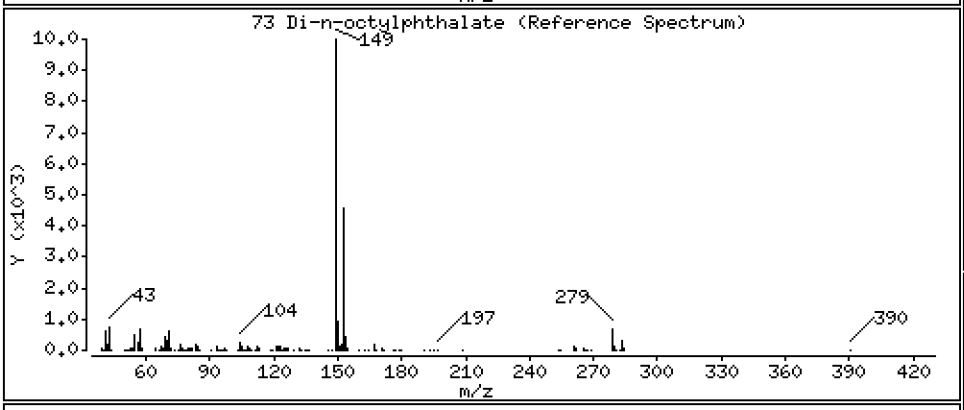
Column diameter: 0.25

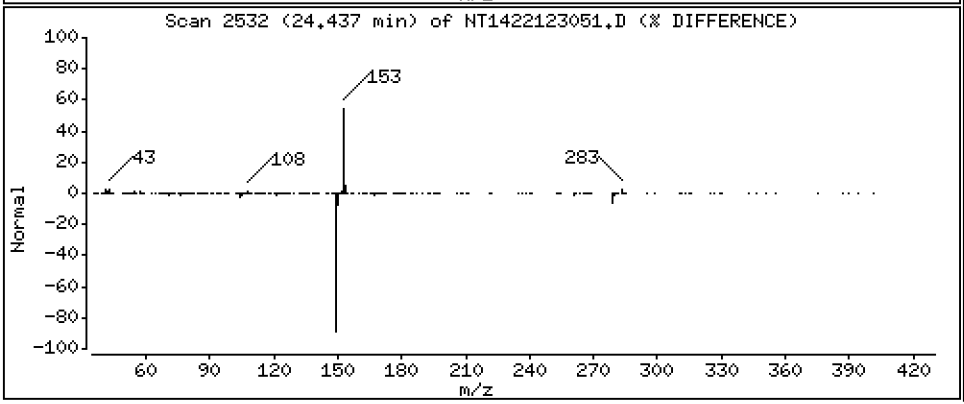
73 Di-n-octylphthalate

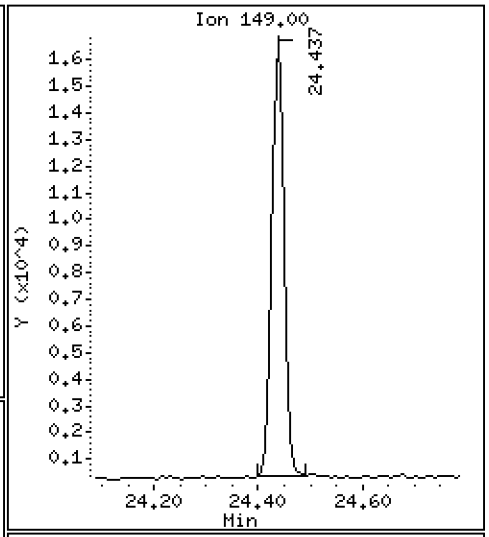
Concentration: 0.2419 ug/mL

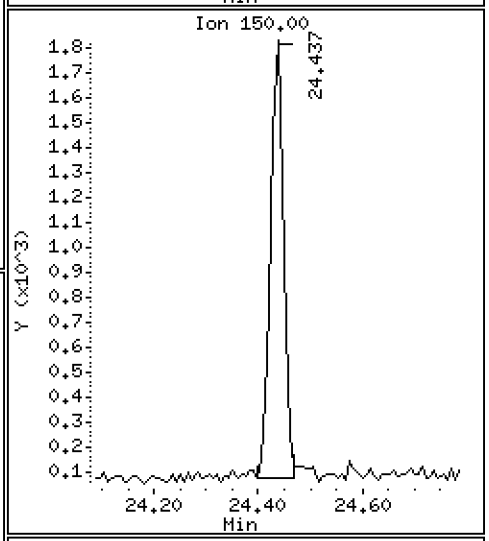


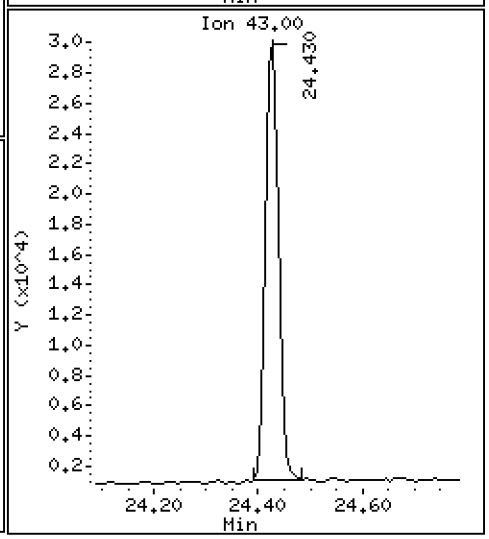












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

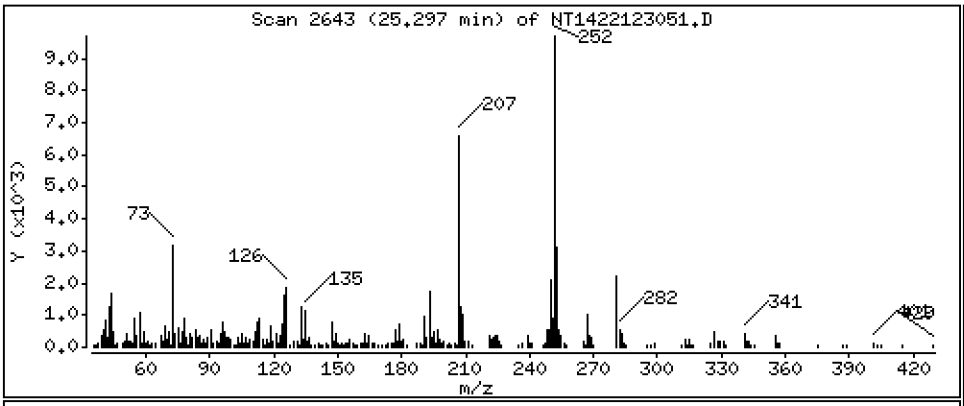
Operator: VTS

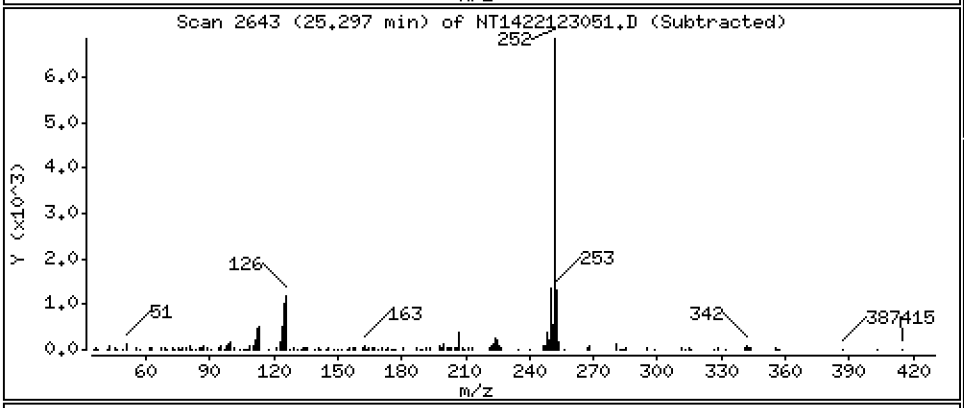
Column phase: ZB-5msi

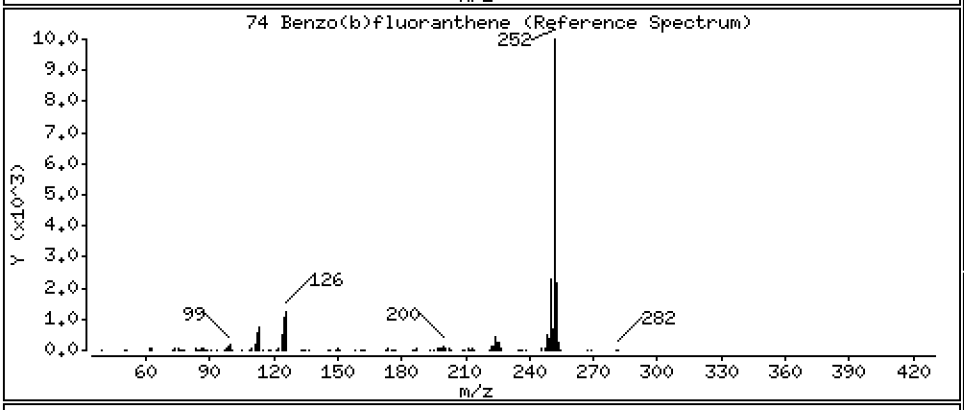
Column diameter: 0.25

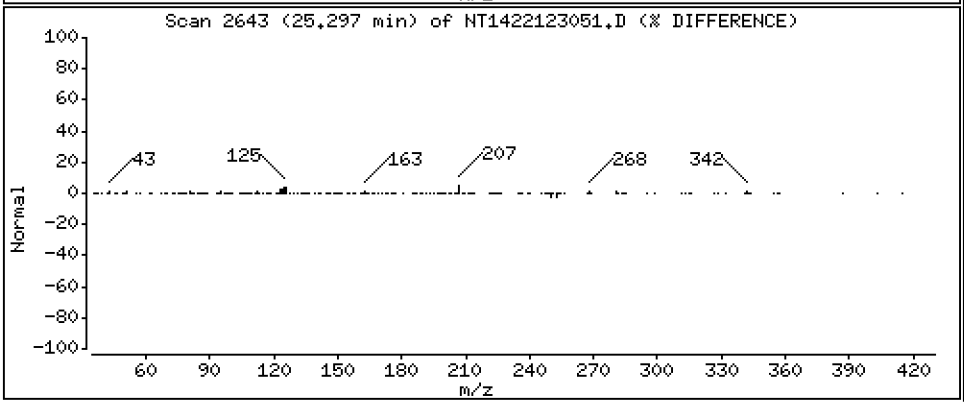
74 Benzo(b)fluoranthene

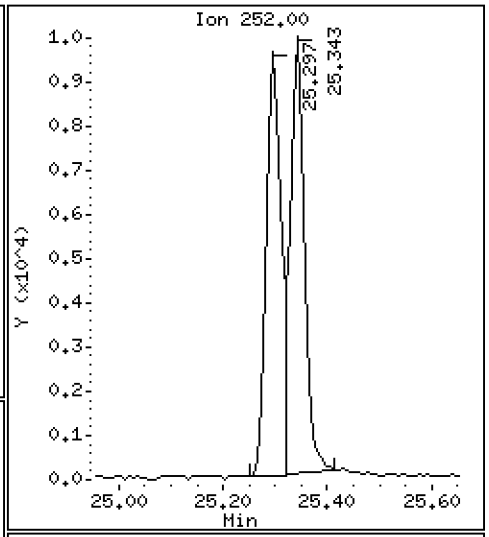
Concentration: 0.2459 ug/mL

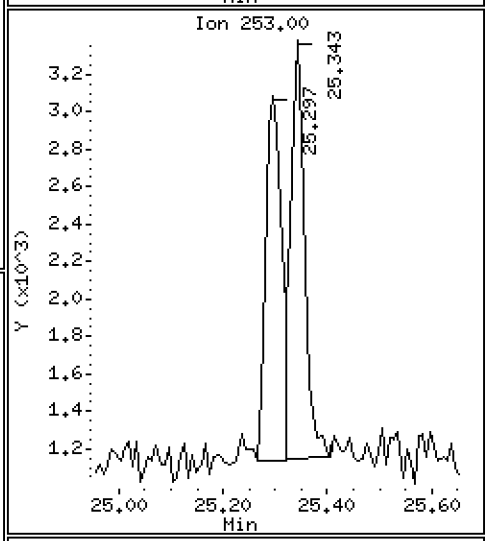


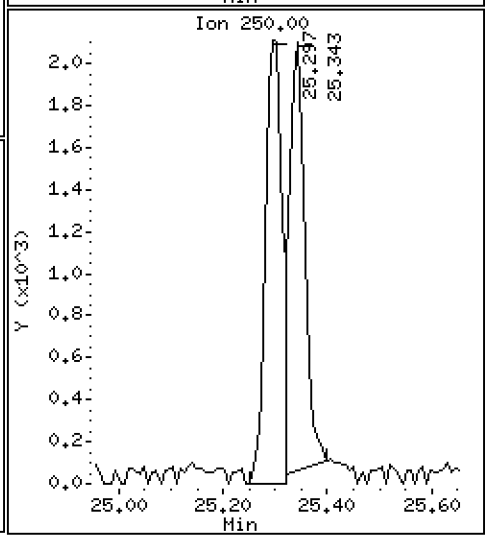












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

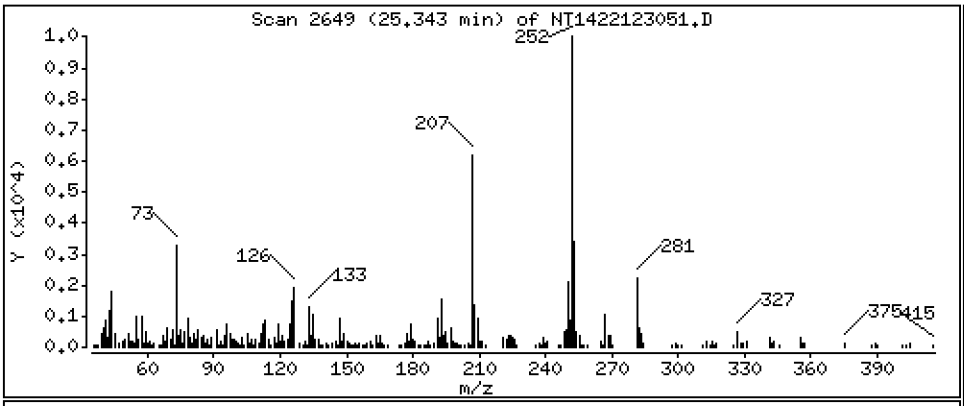
Operator: VTS

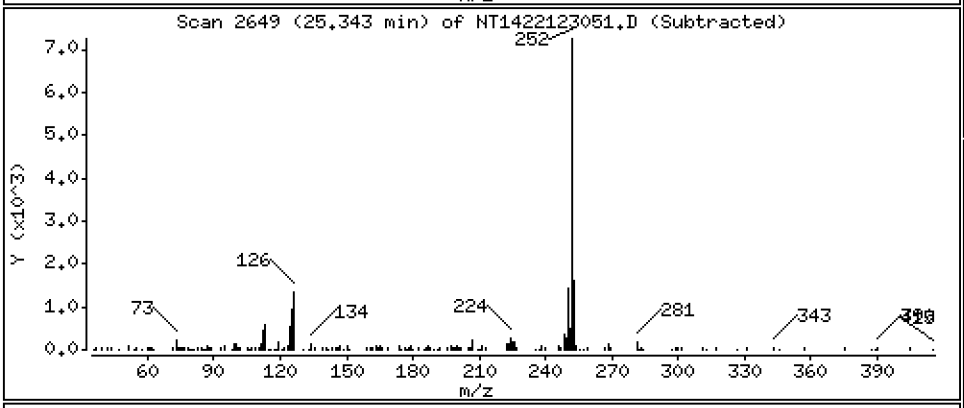
Column phase: ZB-5msi

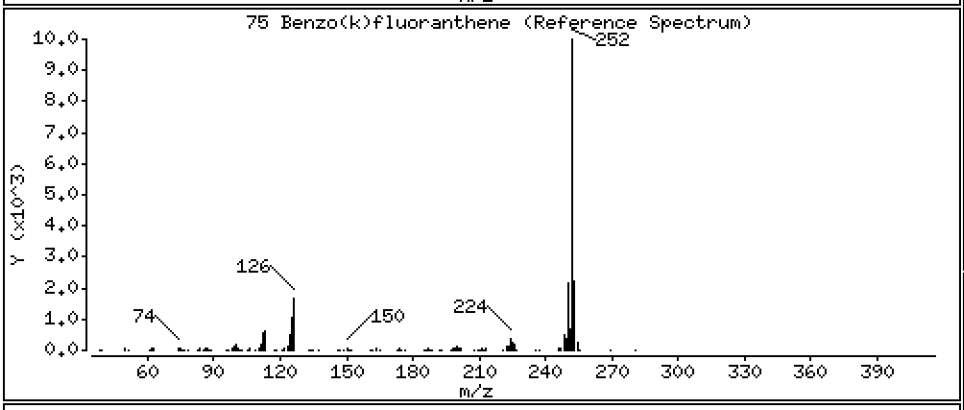
Column diameter: 0.25

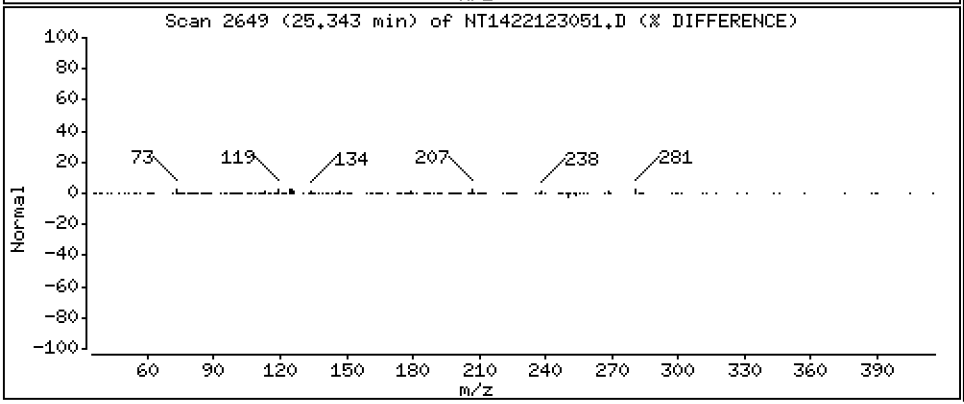
75 Benzo(k)fluoranthene

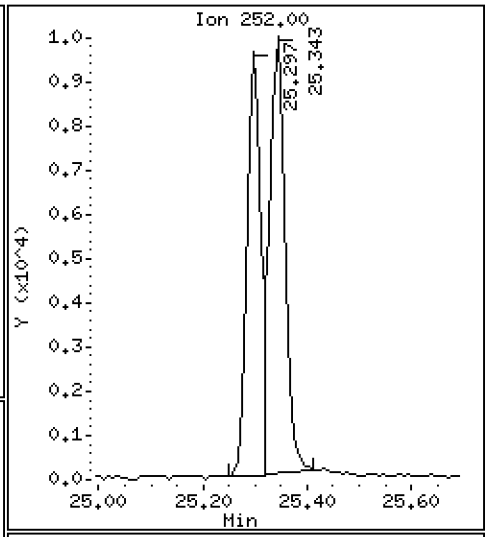
Concentration: 0.2549 ug/mL

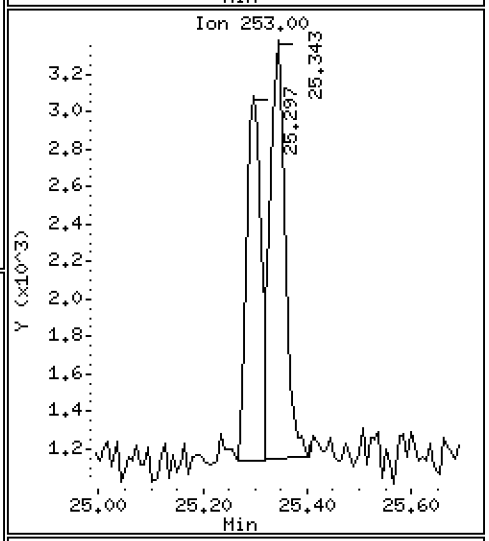


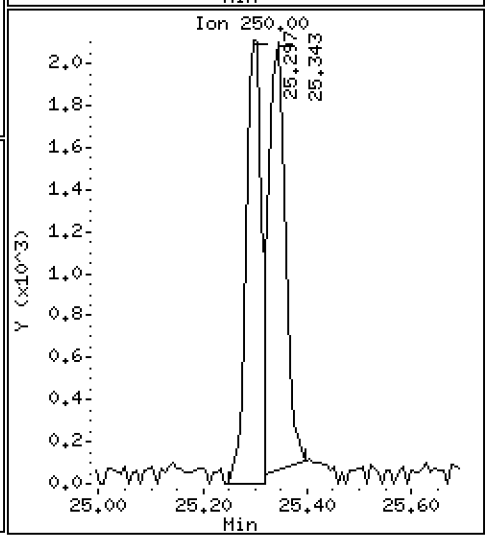












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

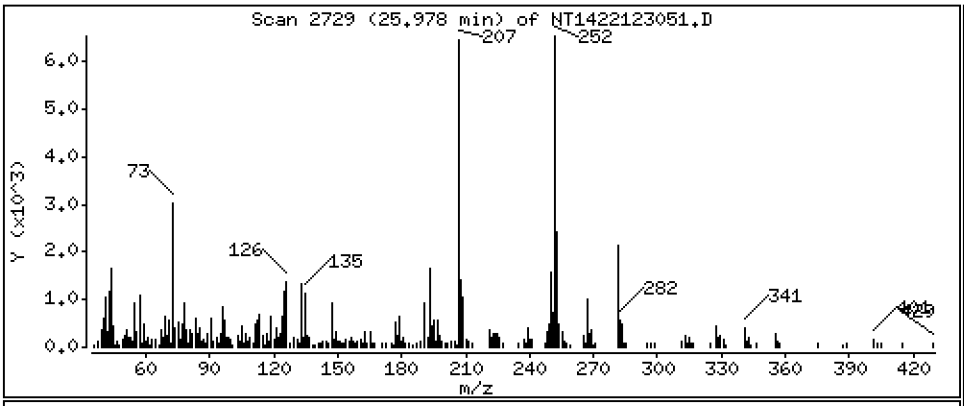
Operator: VTS

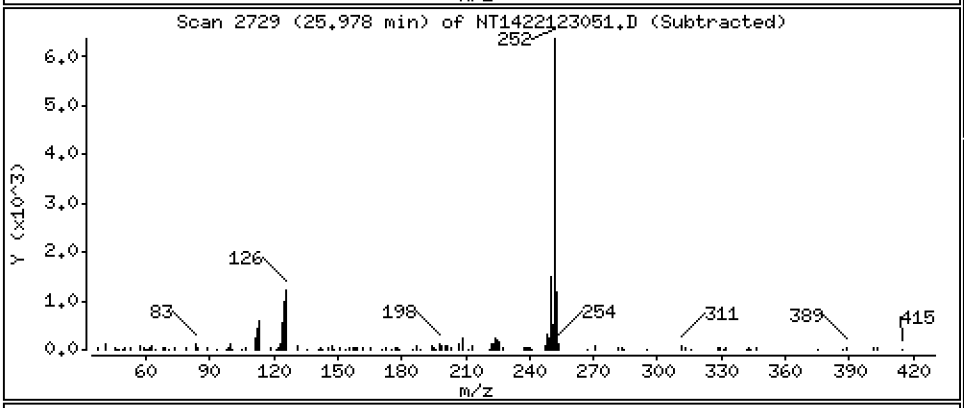
Column phase: ZB-5msi

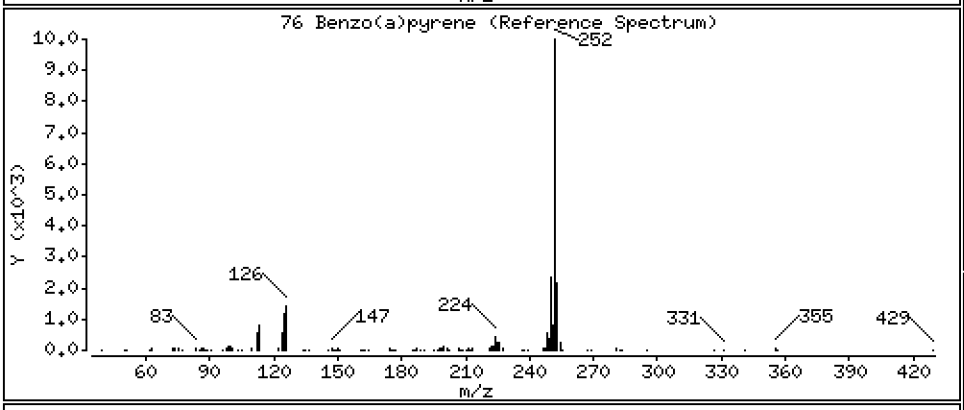
Column diameter: 0.25

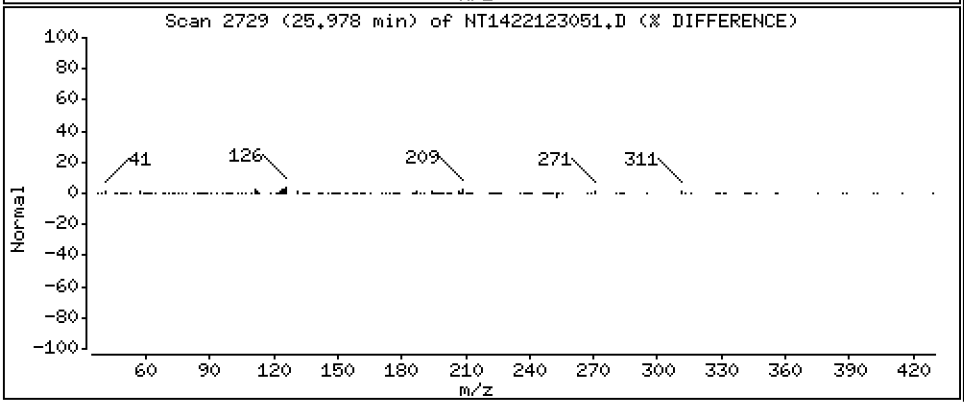
76 Benzo(a)pyrene

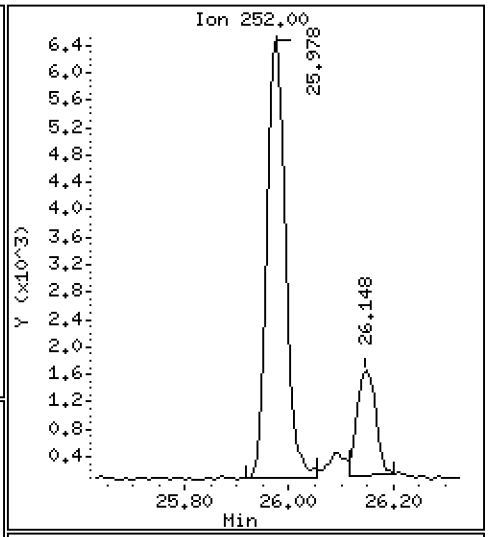
Concentration: 0.2416 ug/mL

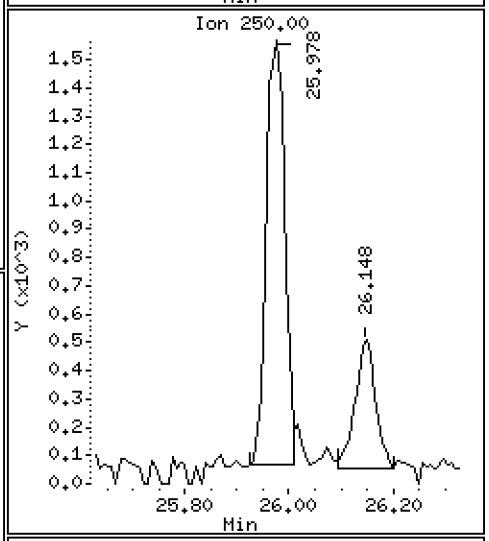


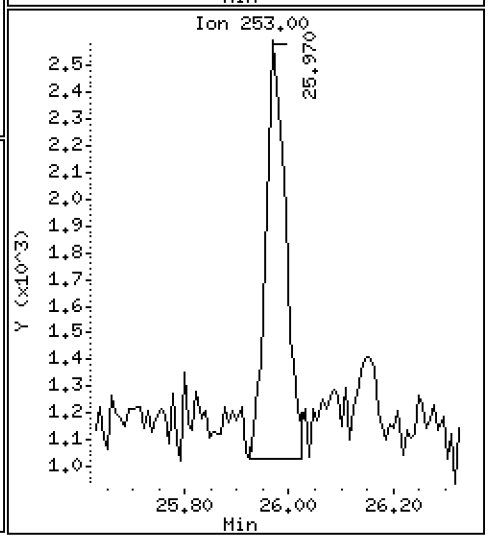












Date : 31-DEC-2022 14:29

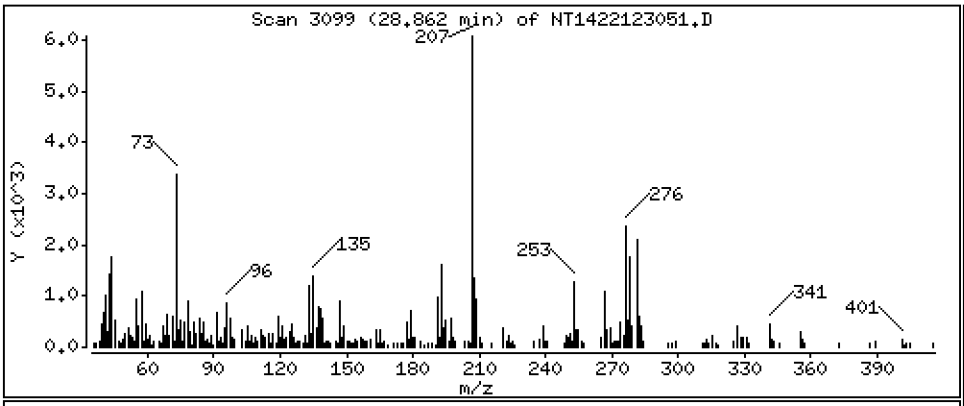
Client ID: Instrument: nt14.i

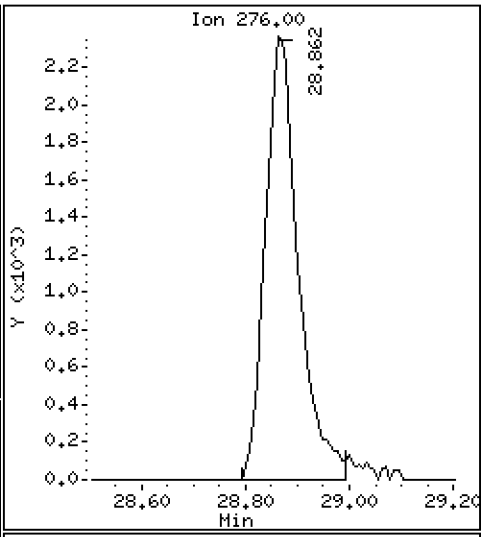
Sample Info: SKL0355-LCV1

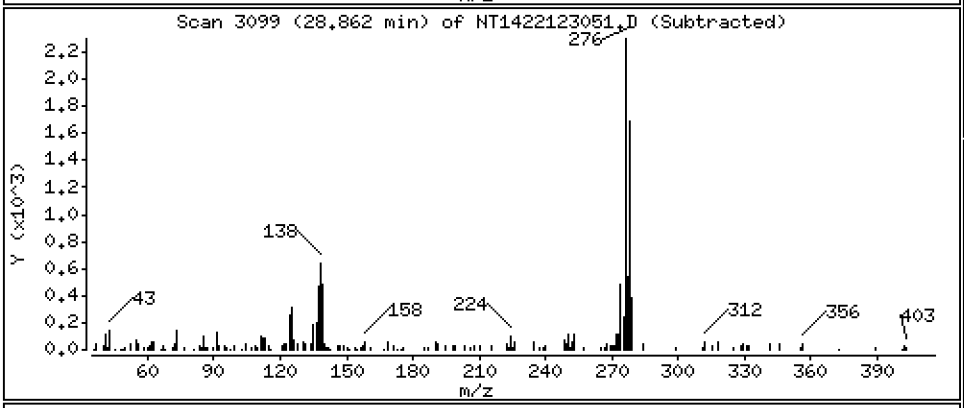
Operator: VTS

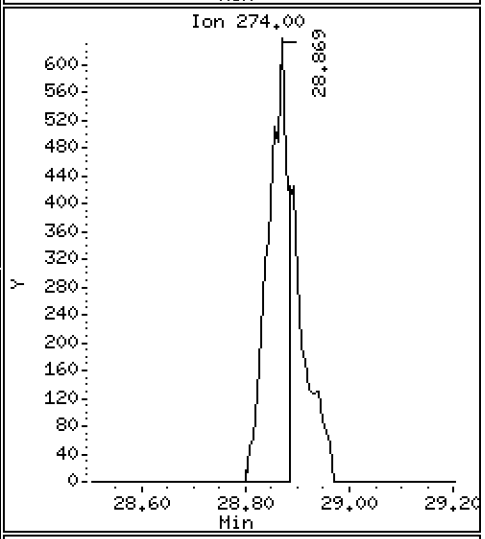
Column phase: ZB-5msi Column diameter: 0.25

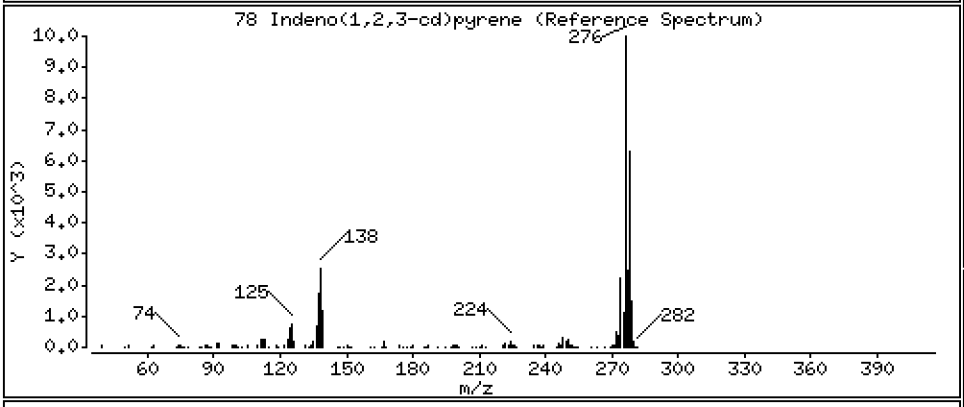
78 Indeno(1,2,3-cd)pyrene Concentration: 0.1427 ug/mL

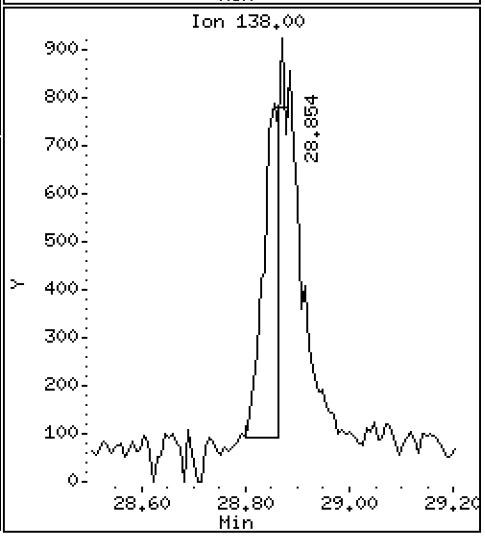


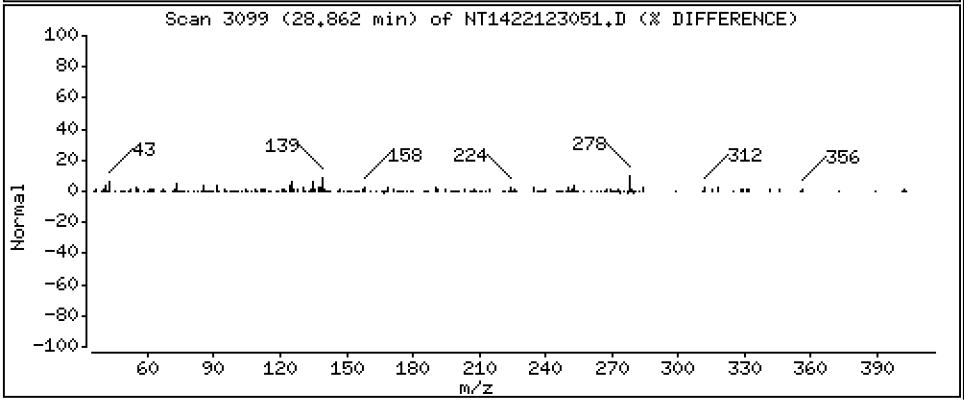












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

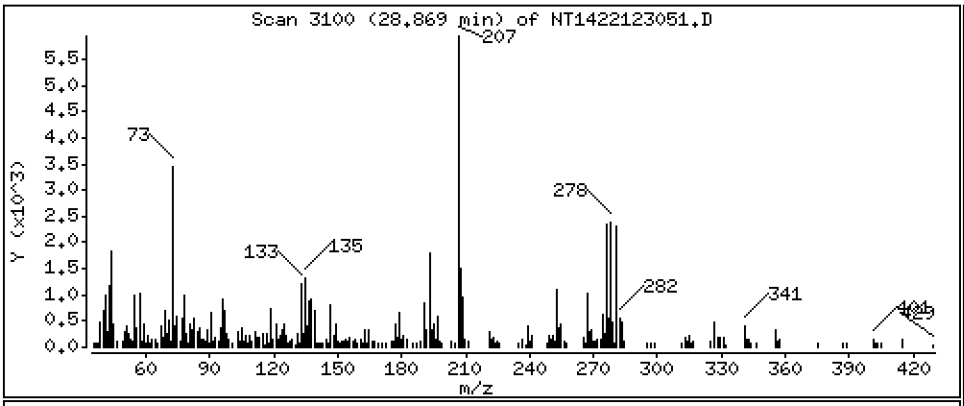
Operator: VTS

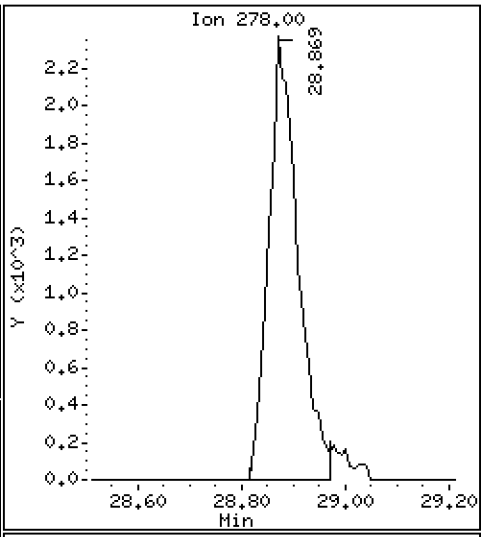
Column phase: ZB-5msi

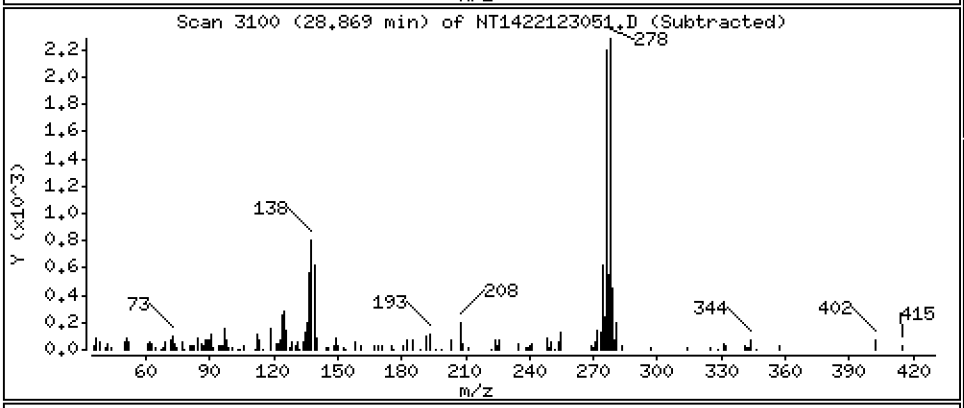
Column diameter: 0.25

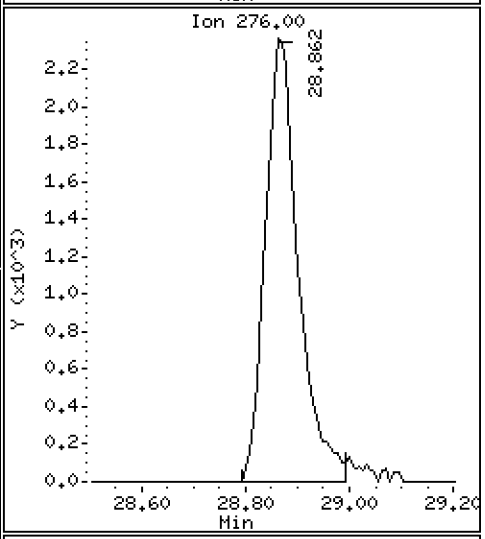
79 Dibenzo(a,h)anthracene

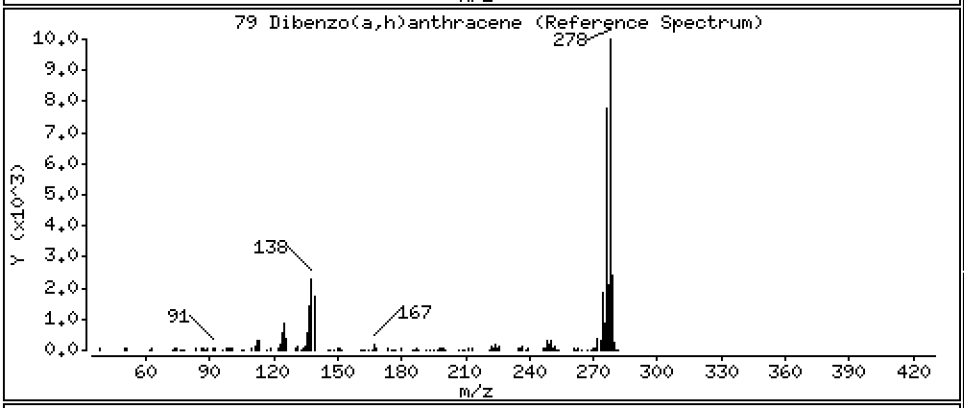
Concentration: 0.1497 ug/mL

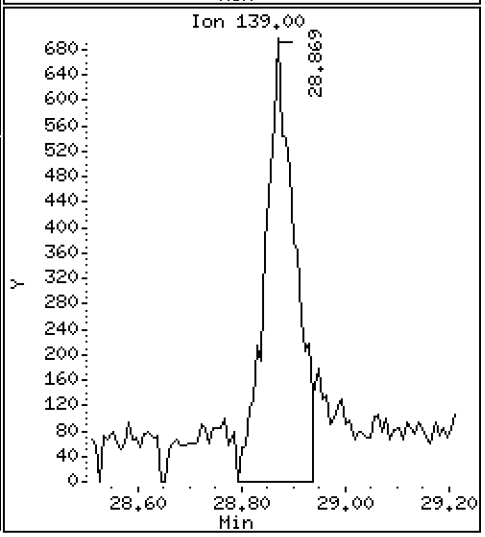


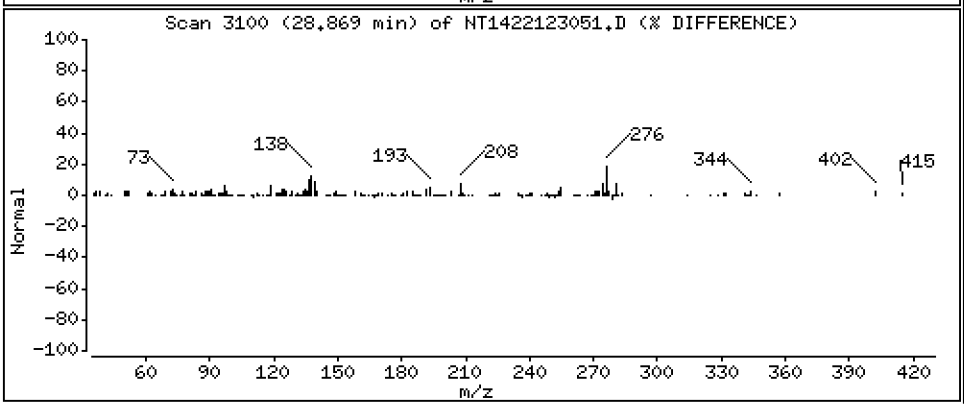












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

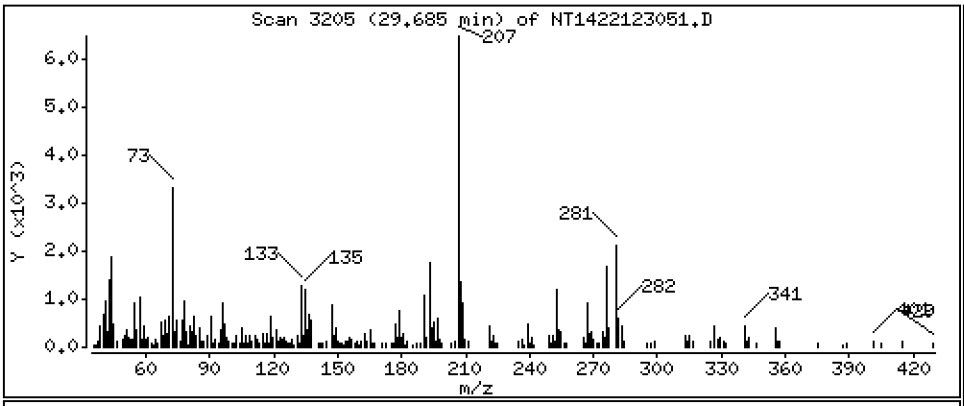
Operator: VTS

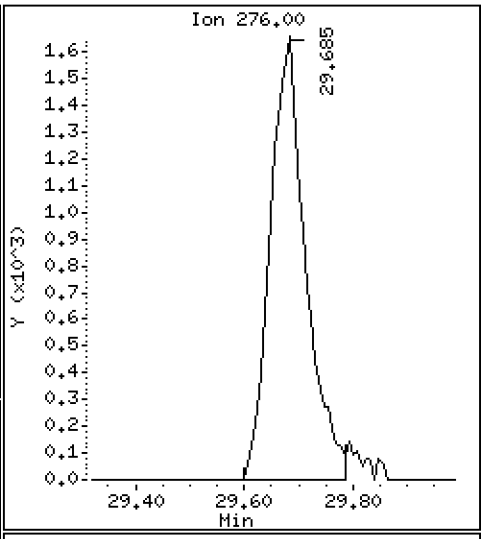
Column phase: ZB-5msi

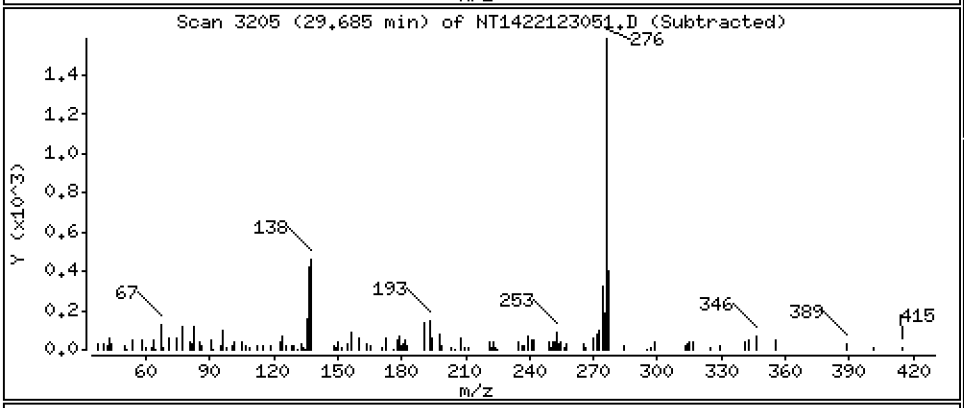
Column diameter: 0.25

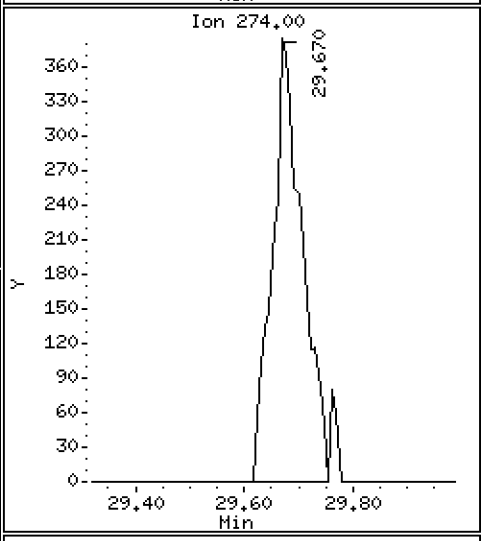
80 Benzo(g,h,i)perylene

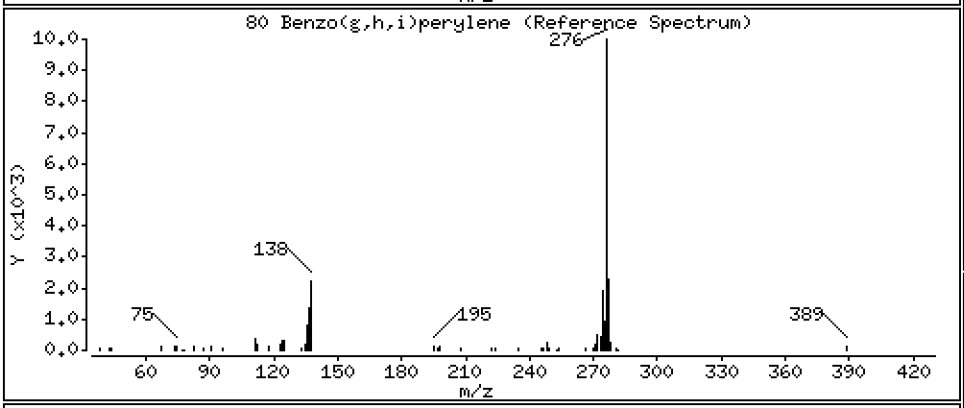
Concentration: 0.1229 ug/mL

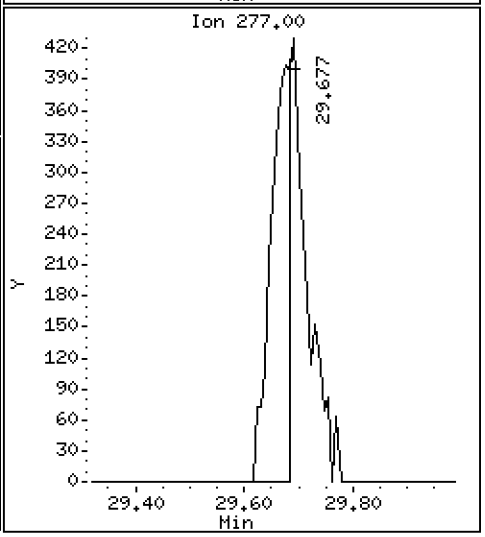


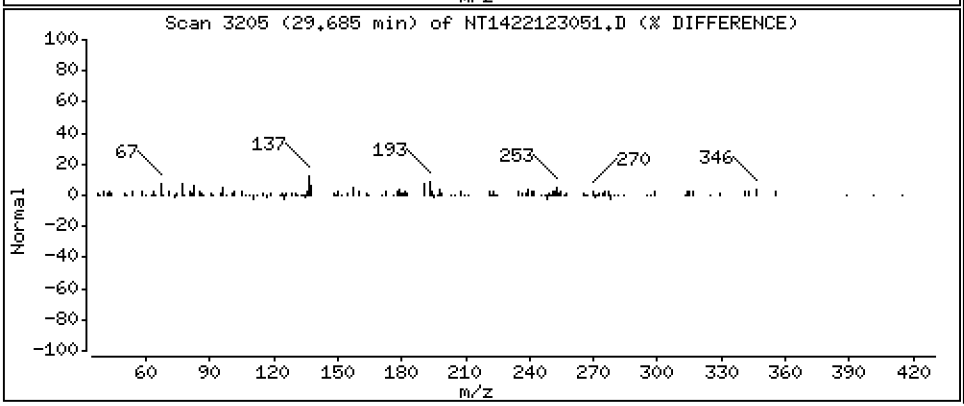












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

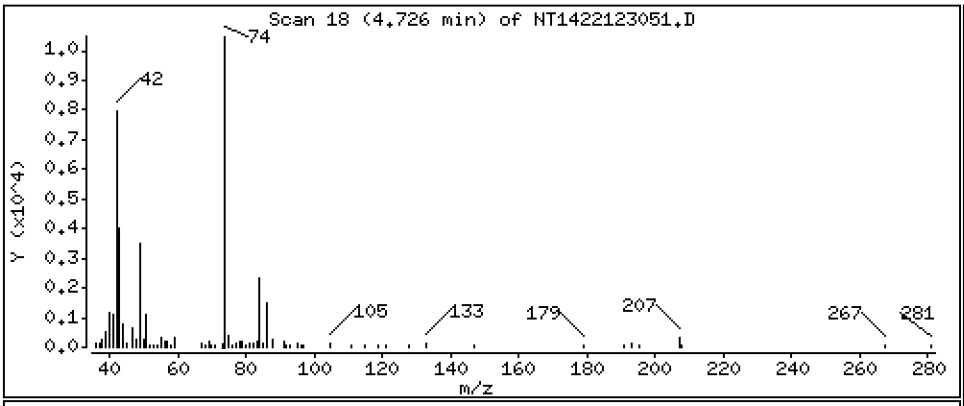
Operator: VTS

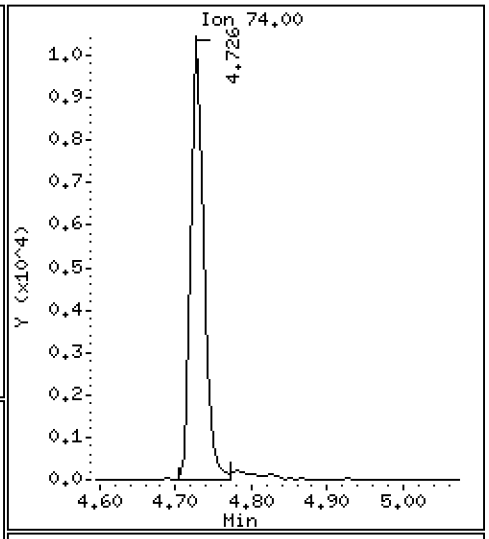
Column phase: ZB-5msi

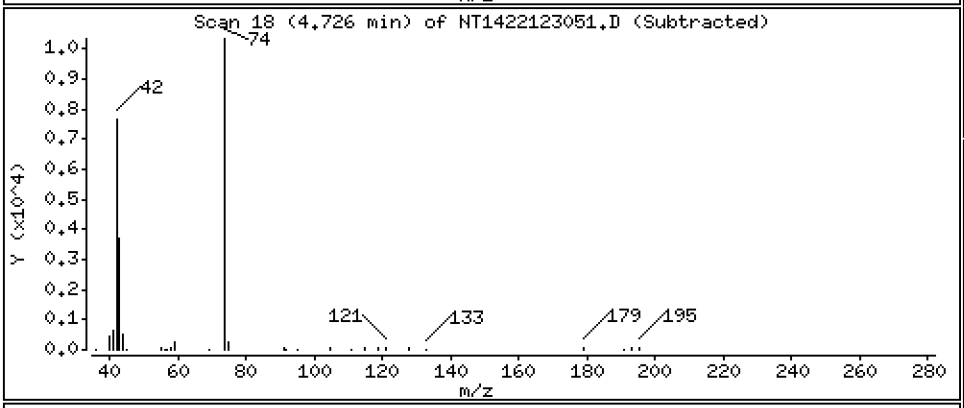
Column diameter: 0.25

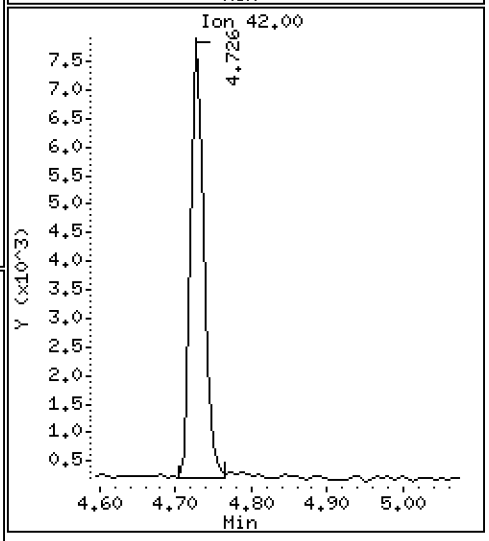
90 N-Nitrosodimethylamine

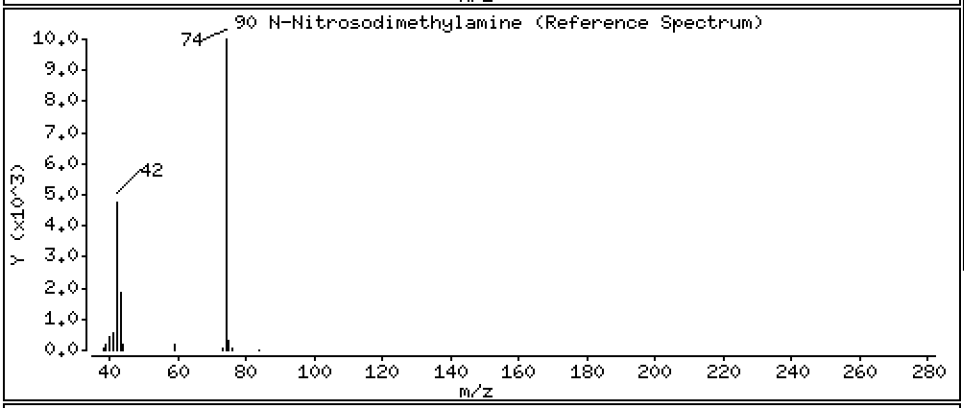
Concentration: 0.4965 ug/mL

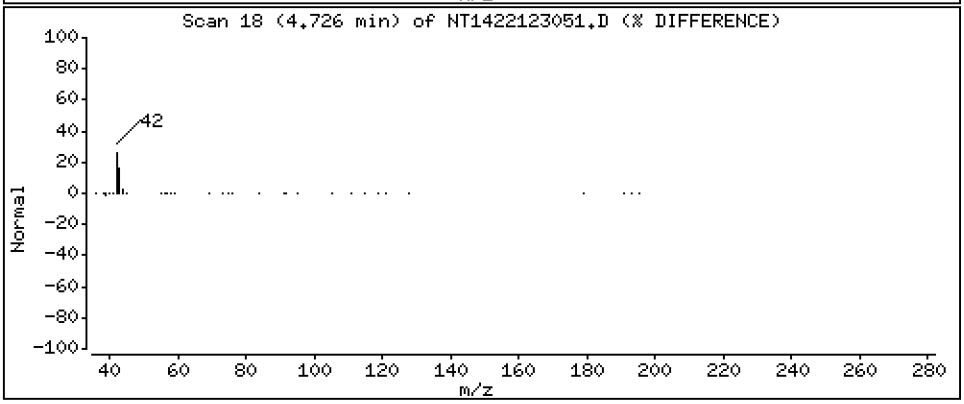












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

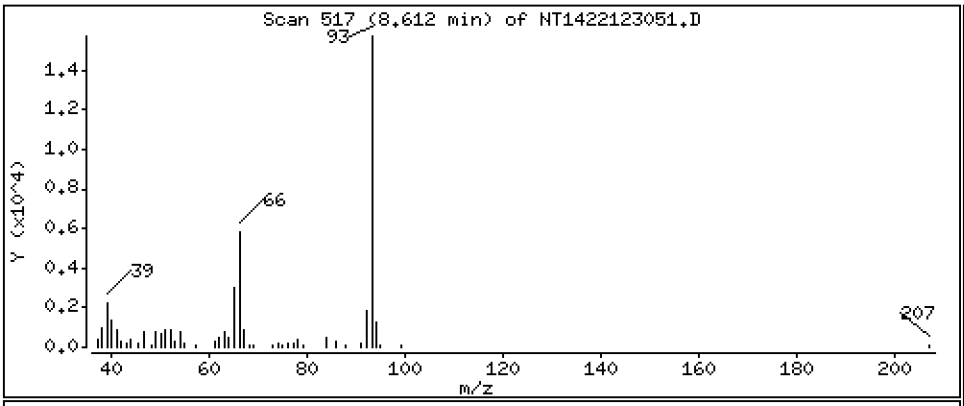
Operator: VTS

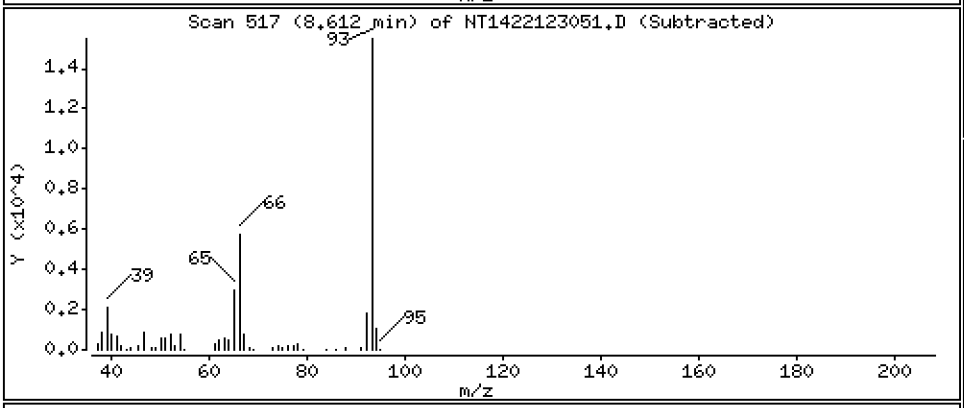
Column phase: ZB-5msi

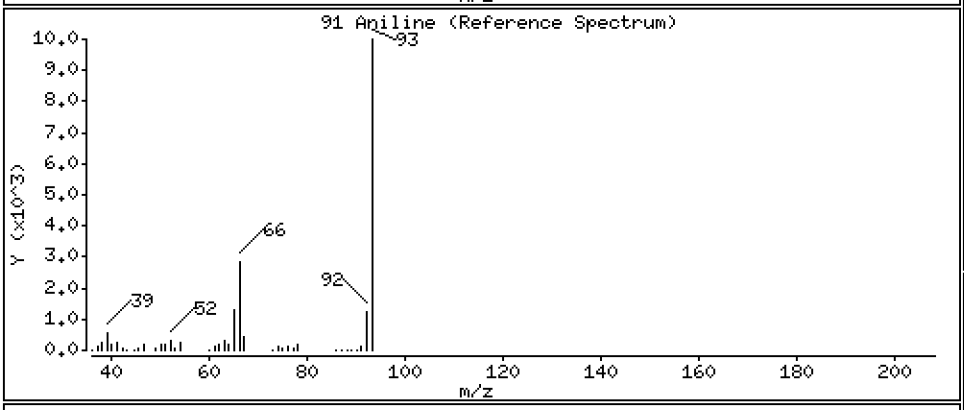
Column diameter: 0.25

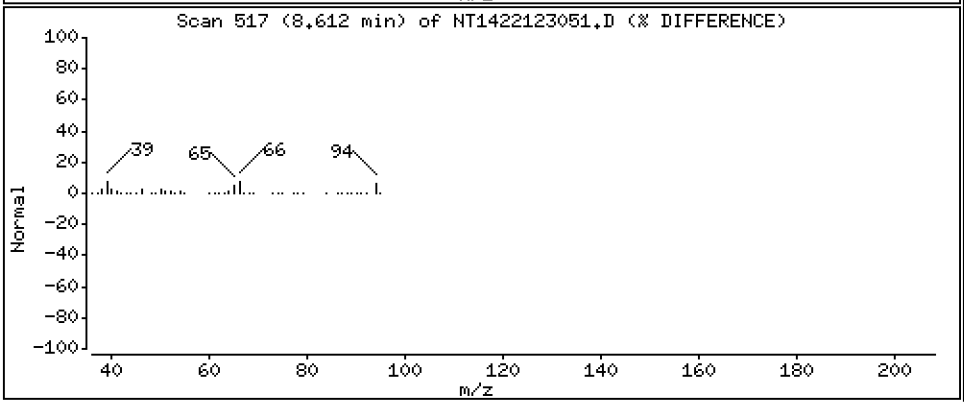
91 Aniline

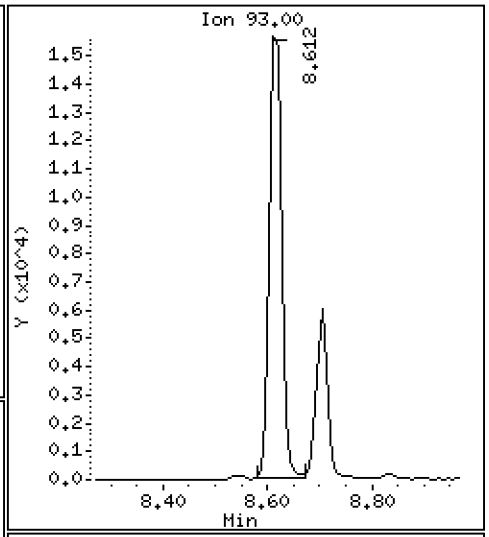
Concentration: 0.4714 ug/mL

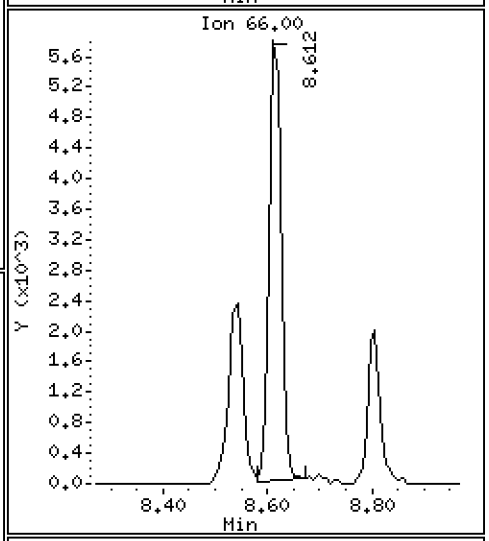


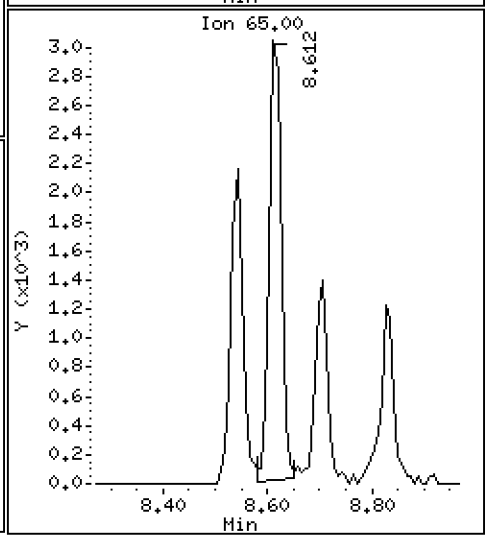












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

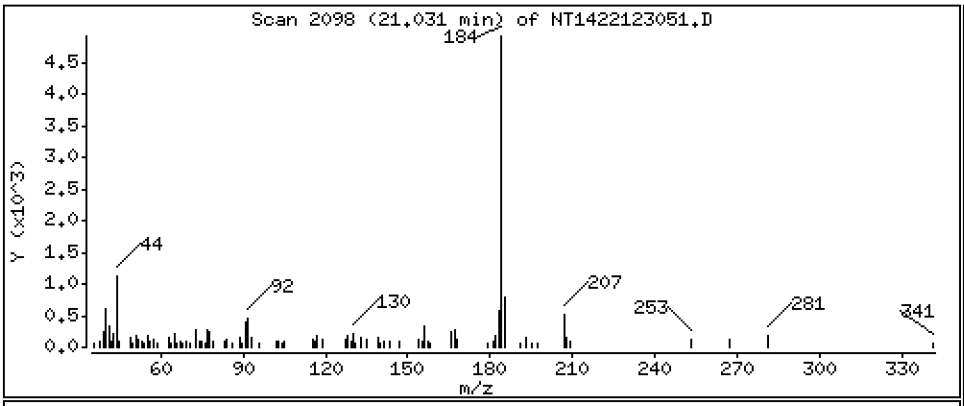
Operator: VTS

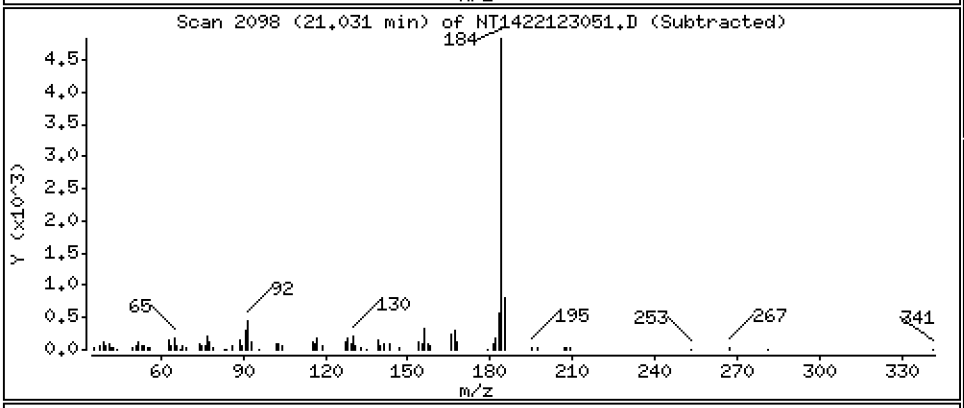
Column phase: ZB-5msi

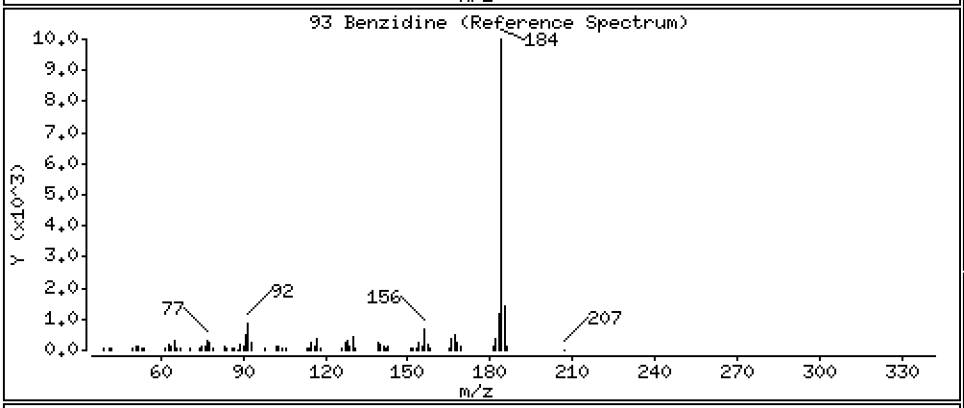
Column diameter: 0.25

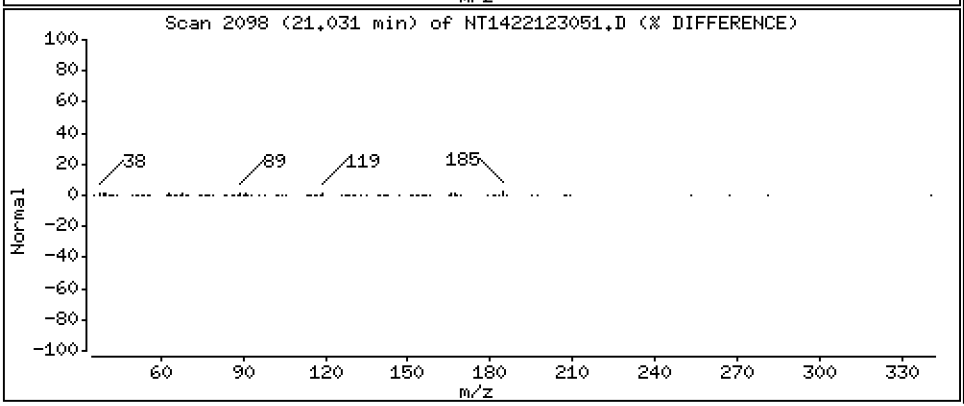
93 Benzidine

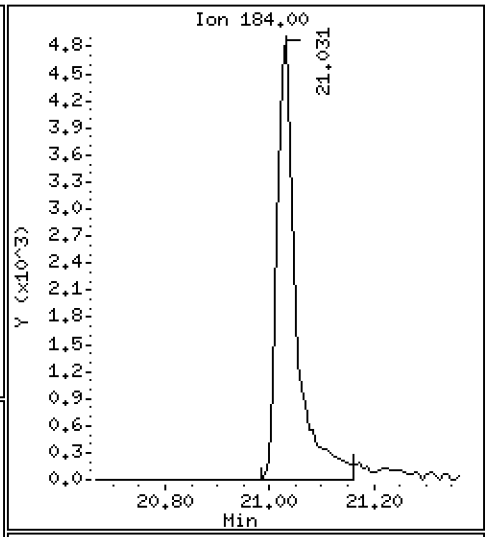
Concentration: 0.3471 ug/mL

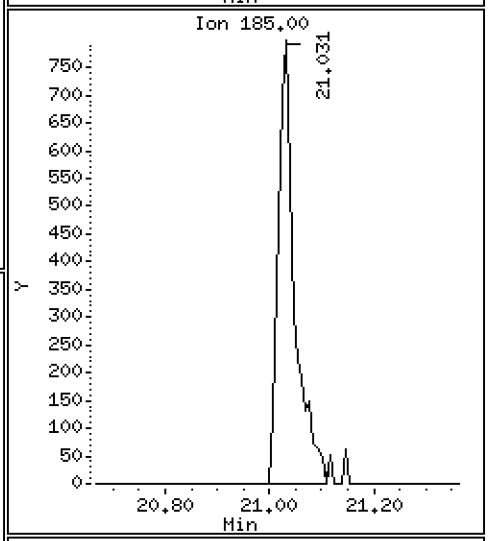


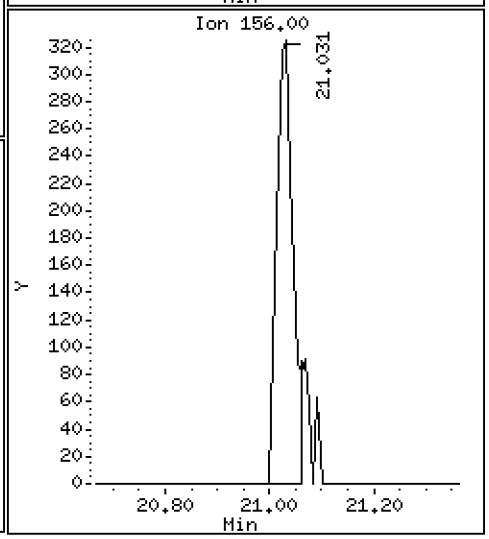












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

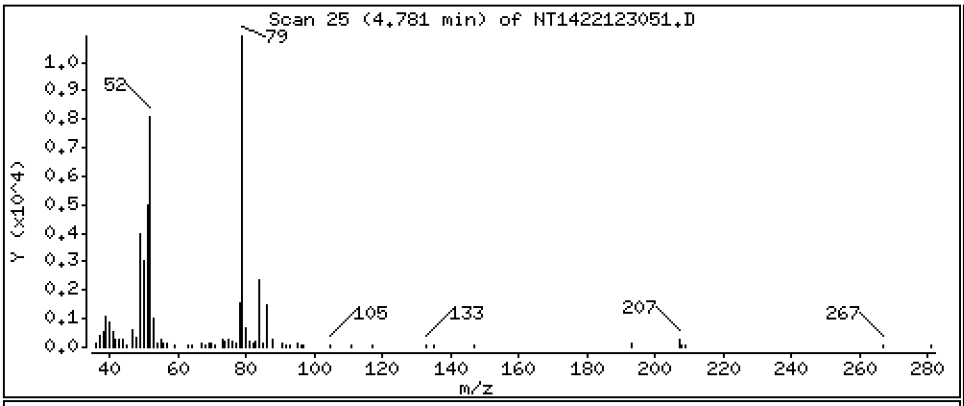
Operator: VTS

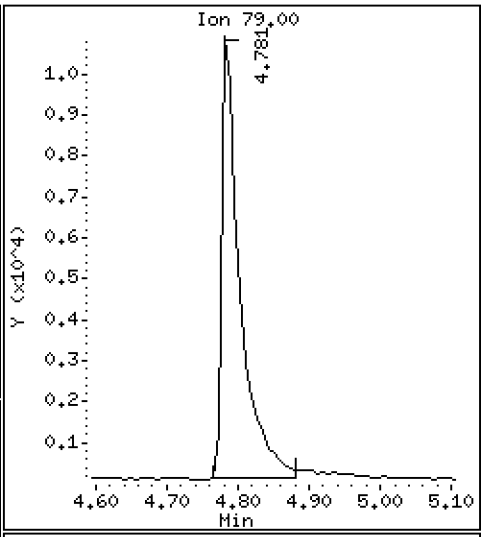
Column phase: ZB-5msi

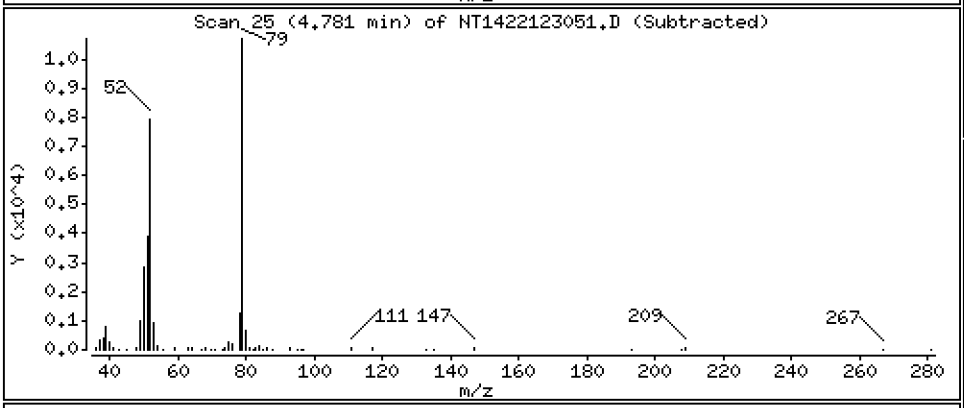
Column diameter: 0.25

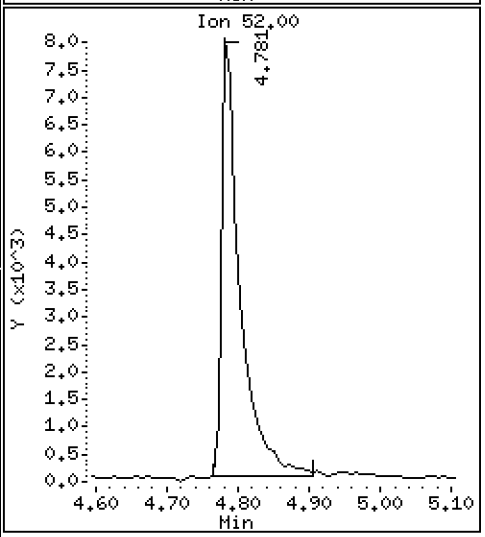
103 Pyridine

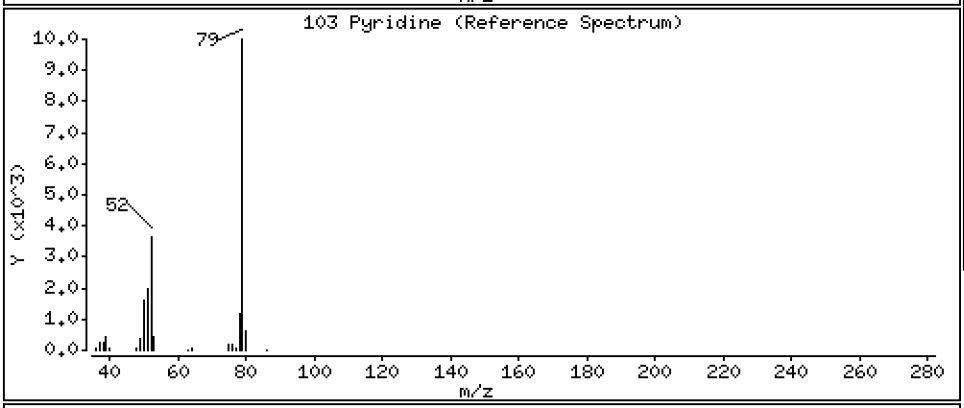
Concentration: 0.2428 ug/mL

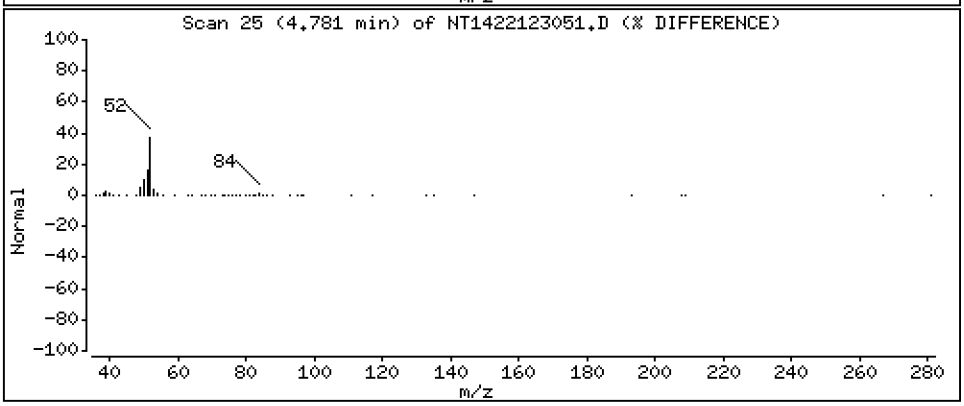












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

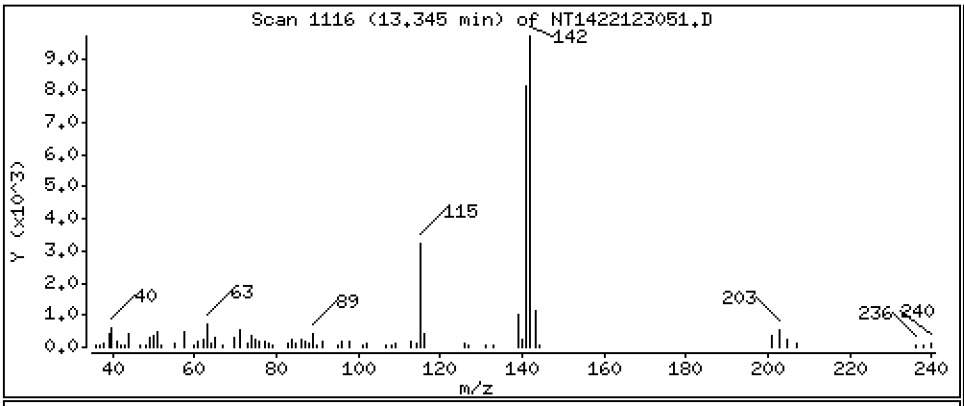
Operator: VTS

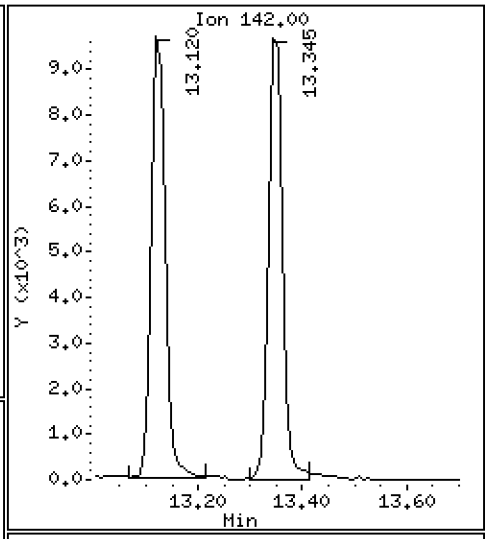
Column phase: ZB-5msi

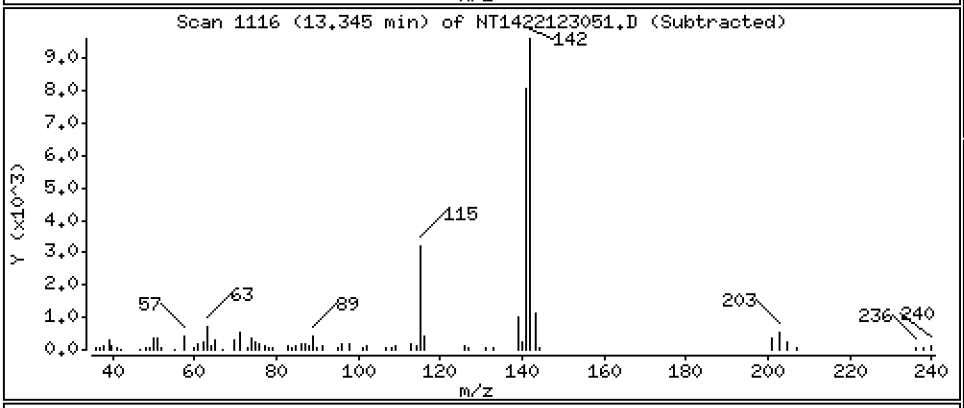
Column diameter: 0.25

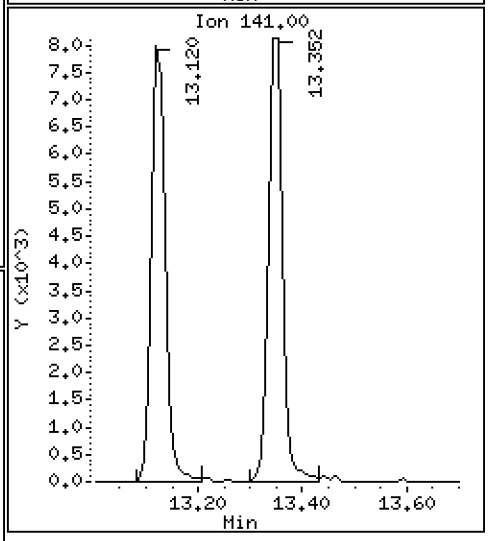
105 1-methylnaphthalene

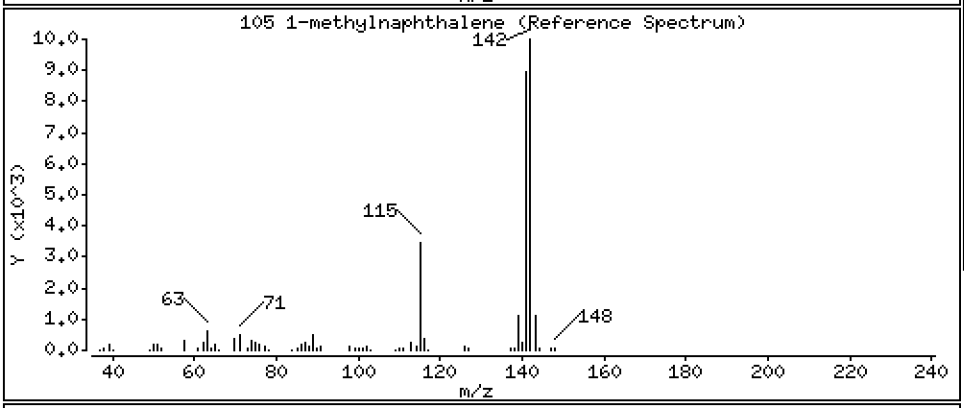
Concentration: 0.2317 ug/mL

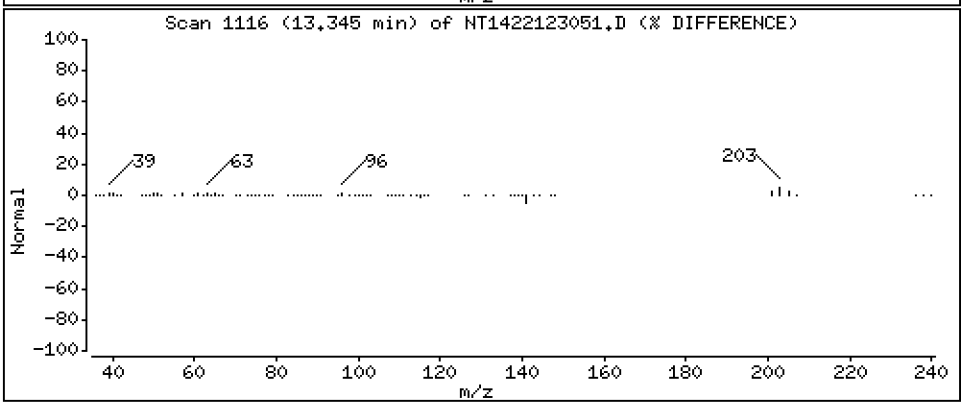












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

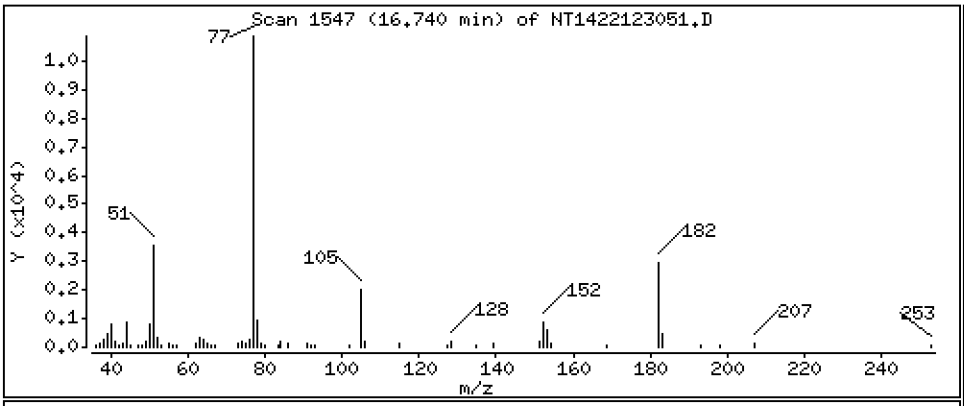
Operator: VTS

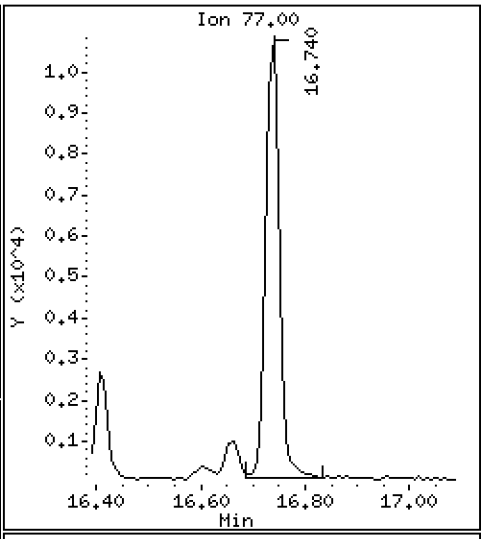
Column phase: ZB-5msi

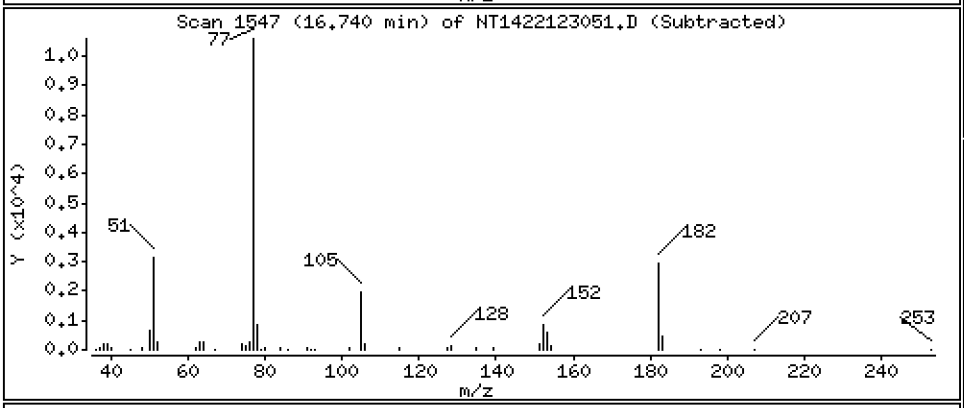
Column diameter: 0.25

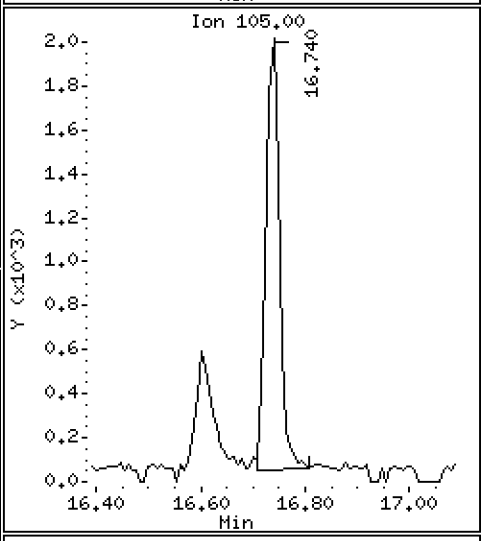
111 Azobenzene (1,2-DP-Hydrazine)

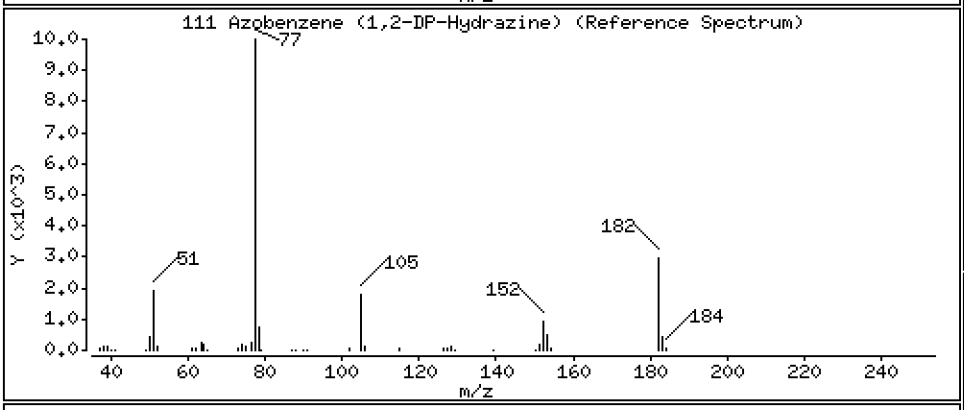
Concentration: 0.2322 ug/mL

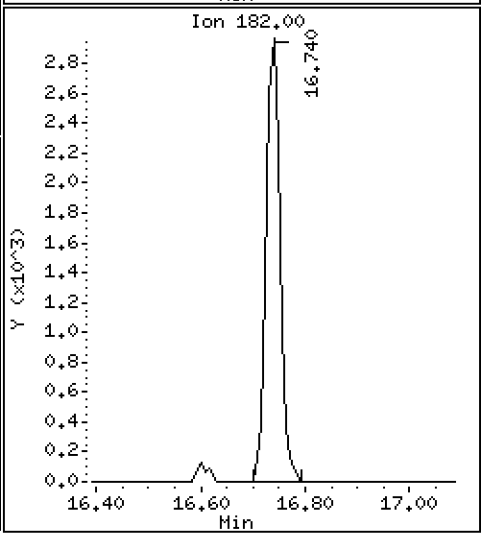


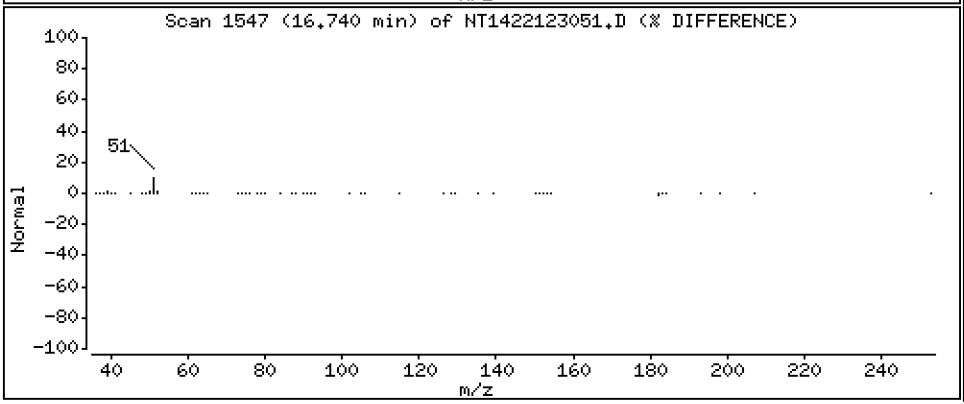












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

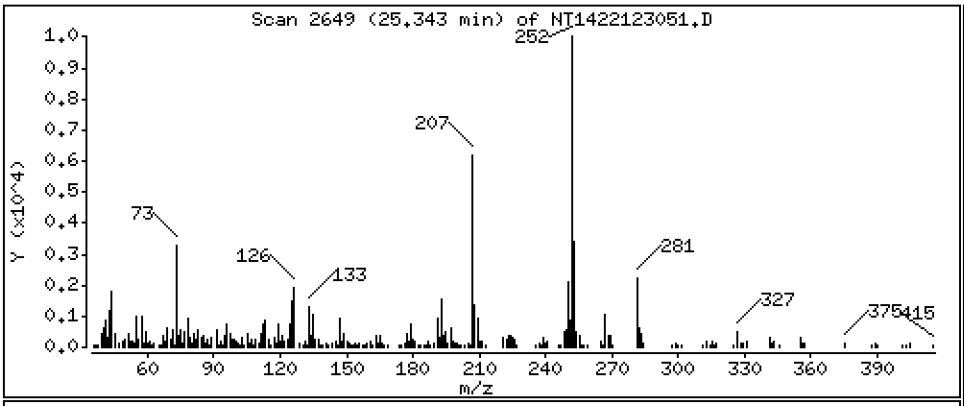
Operator: VTS

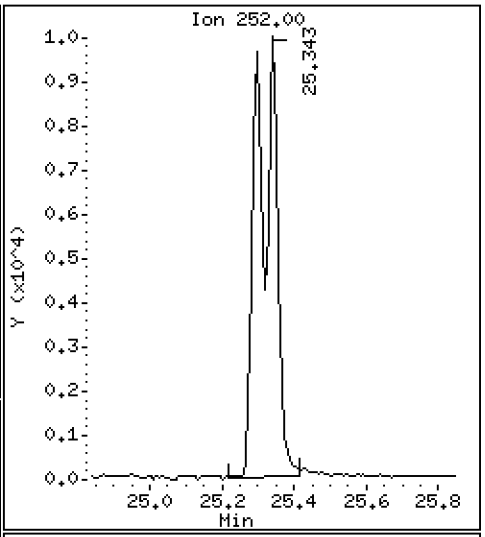
Column phase: ZB-5msi

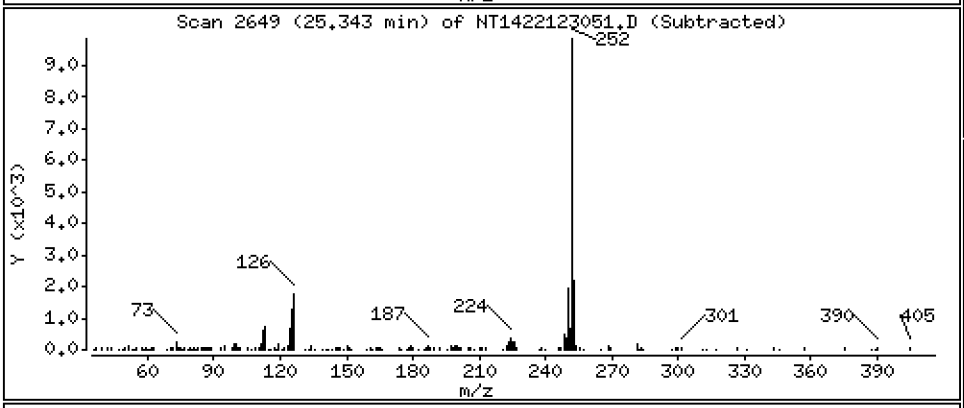
Column diameter: 0.25

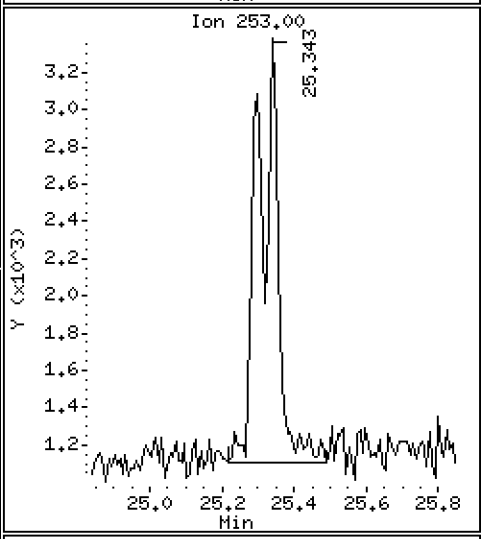
187 Total Benzofluoranthenes

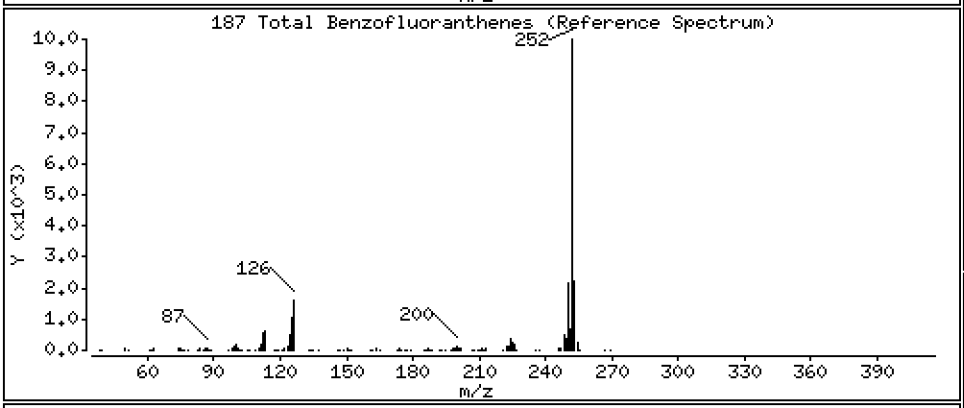
Concentration: 0.5087 ug/mL

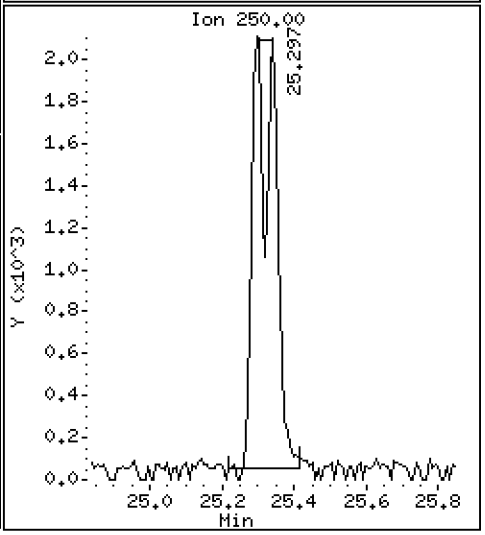


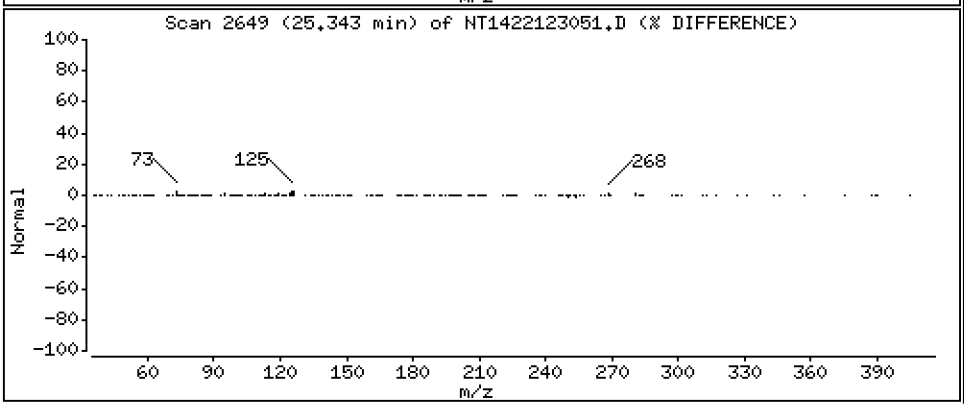












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

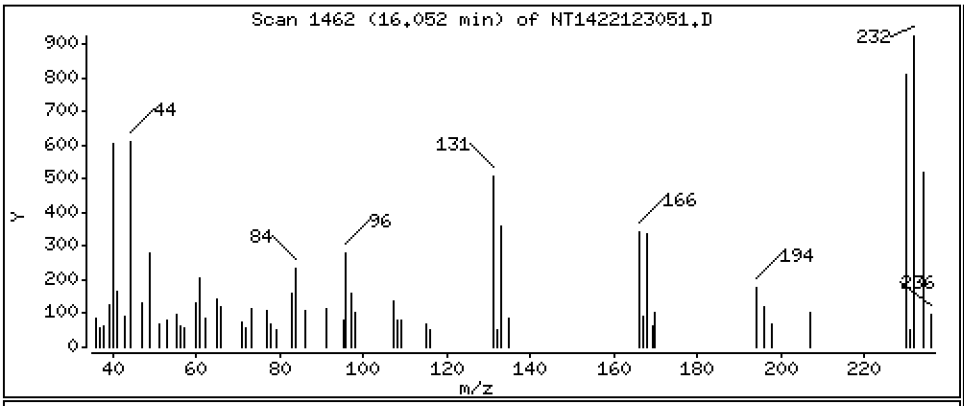
Operator: VTS

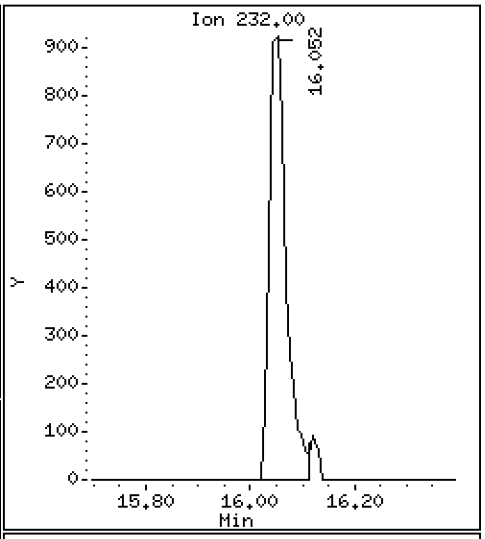
Column phase: ZB-5msi

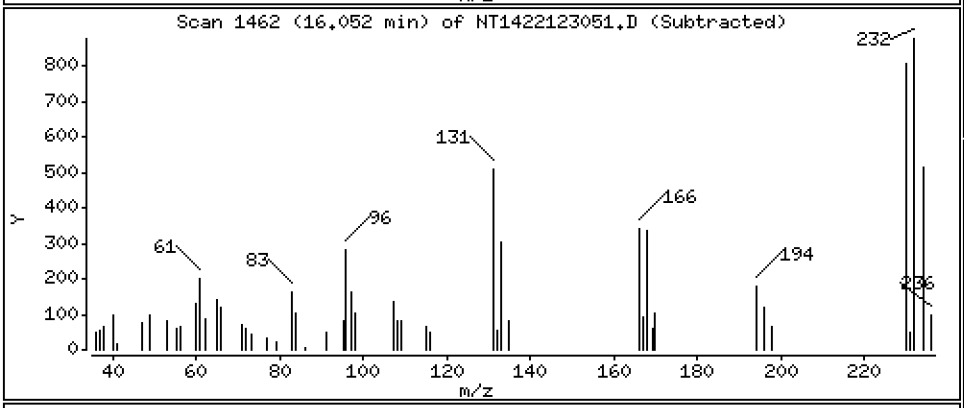
Column diameter: 0.25

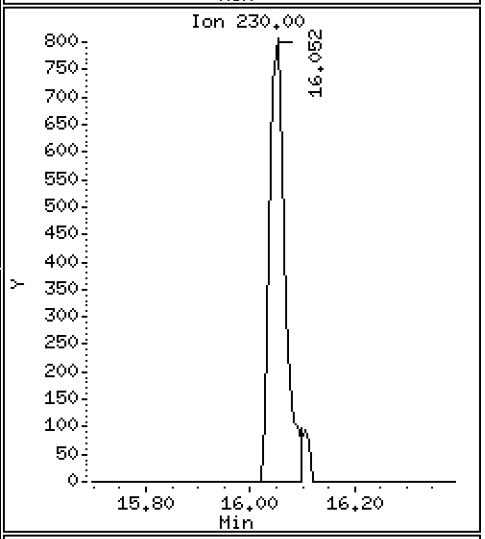
120 2,3,4,6-Tetrachlorophenol

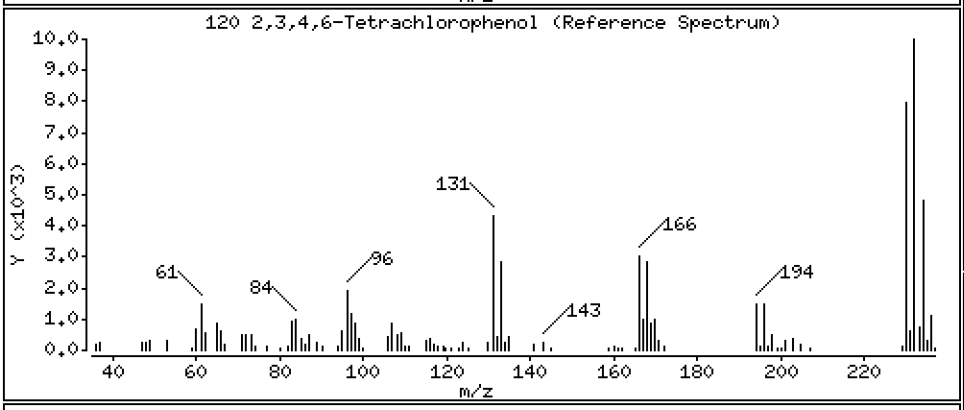
Concentration: 0.1326 ug/mL

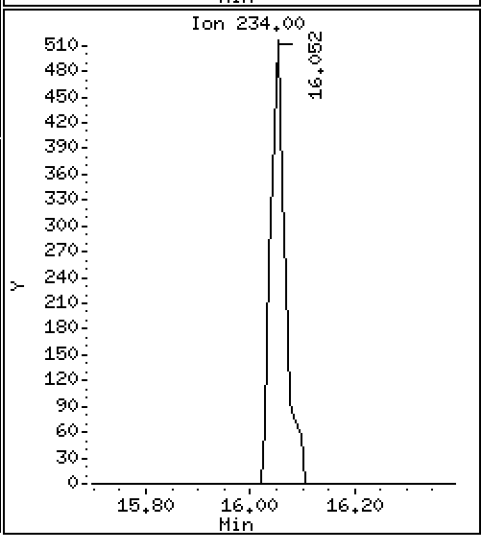


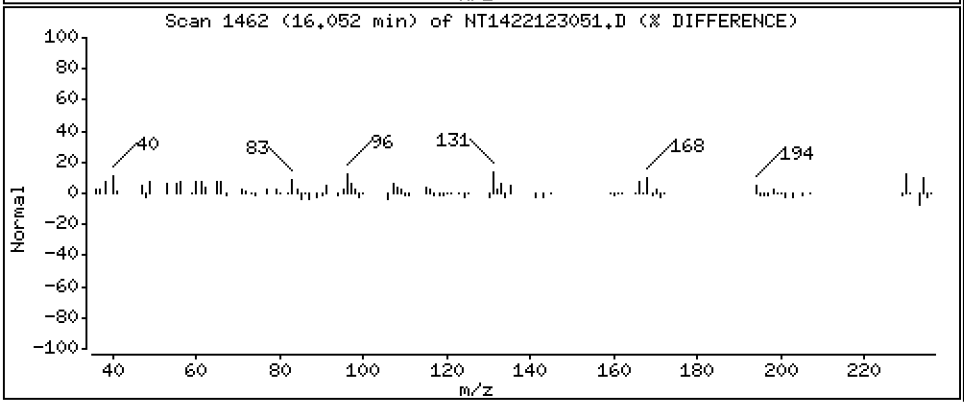












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Inj Date : 31-DEC-2022 14:29 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-LCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230B.b\ABN.m
Meth Date : 04-Jan-2023 08:43 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.927	6.927	(0.756)	12842	0.34438	0.3444
$	2 Phenol-d5	99	8.519	8.519	(0.929)	14155	0.30716	0.3072
	3 Phenol	94	8.542	8.542	(0.932)	12014	0.22943	0.2294
$	5 2-Chlorophenol-d4	132	8.804	8.804	(0.960)	12856	0.33217	0.3322
	4 Bis(2-Chloroethyl)ether	93	8.704	8.704	(0.949)	8623	0.23905	0.2390
	6 2-Chlorophenol	128	8.835	8.835	(0.964)	10012	0.23554	0.2355
	7 1,3-Dichlorobenzene	146	9.106	9.106	(0.993)	11073	0.24567	0.2457
*	8 1,4-Dichlorobenzene-d4	152	9.168	9.168	(1.000)	116397	4.00000	
	9 1,4-Dichlorobenzene	146	9.199	9.199	(1.003)	10619	0.24869	0.2487
$	10 1,2-Dichlorobenzene-d4	152	9.533	9.533	(1.040)	6376	0.24103	0.2410
	12 1,2-Dichlorobenzene	146	9.556	9.564	(1.042)	10186	0.24324	0.2432
	11 Benzyl alcohol	108	9.440	9.440	(1.030)	3783	0.16228	0.1623
	14 2,2'-oxybis(1-Chloropropane)	121	9.742	9.743	(1.063)	2715	0.22362	0.2236(M)
	13 2-Methylphenol	108	9.665	9.665	(1.054)	8908	0.23411	0.2341
	17 Hexachloroethane	117	10.162	10.162	(1.108)	2756	0.17549	0.1755
	16 N-Nitroso-di-n-propylamine	70	9.999	9.999	(1.091)	5117	0.22076	0.2208
	15 4-Methylphenol	108	9.937	9.937	(1.084)	8513	0.21208	0.2121
$	18 Nitrobenzene-d5	82	10.270	10.270	(0.880)	7699	0.21407	0.2141
	19 Nitrobenzene	77	10.301	10.301	(0.882)	8051	0.22540	0.2254
	20 Isophorone	82	10.759	10.759	(0.922)	8947	0.19654	0.1965
	21 2-Nitrophenol	139	10.938	10.938	(0.937)	4423	0.20275	0.2028
	22 2,4-Dimethylphenol	107	10.992	10.992	(0.942)	16985	0.45562	0.4556
	23 Bis(2-Chloroethoxy)methane	93	11.186	11.186	(0.958)	8349	0.23576	0.2358
	24 Benzoic acid	105	11.139	11.201	(0.954)	3966	0.17478	0.1748(M)
	25 2,4-Dichlorophenol	162	11.403	11.403	(0.977)	12985	0.41323	0.4132
	26 1,2,4-Trichlorobenzene	180	11.588	11.589	(0.993)	8229	0.24219	0.2422
*	27 Naphthalene-d8	136	11.673	11.681	(1.000)	425902	4.00000	
	28 Naphthalene	128	11.720	11.720	(1.004)	24917	0.23773	0.2377
	29 4-Chloroaniline	127	11.843	11.843	(1.015)	17541	0.40581	0.4058
	30 Hexachlorobutadiene	225	12.083	12.083	(1.035)	3748	0.22233	0.2223
	31 4-Chloro-3-methylphenol	107	12.818	12.810	(1.098)	11891	0.40100	0.4010
	32 2-Methylnaphthalene	142	13.120	13.128	(1.124)	17149	0.22305	0.2231
	33 Hexachlorocyclopentadiene	237	13.600	13.592	(0.888)	352	0.02150	0.02150

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.754	13.747	(0.898)	6773	0.37464	0.3746
	35	2,4,5-Trichlorophenol	196	13.839	13.824	(0.904)	9005	0.43158	0.4316(M)
$	36	2-Fluorobiphenyl	172	13.909	13.909	(0.909)	16254	0.22319	0.2232
	37	2-Chloronaphthalene	162	14.126	14.126	(0.923)	14693	0.23716	0.2372
	38	2-Nitroaniline	65	14.381	14.373	(0.939)	6470	0.39723	0.3972
	39	Dimethylphthalate	163	14.807	14.807	(0.967)	13629	0.22312	0.2231
	40	Acenaphthylene	152	15.000	15.000	(0.980)	21309	0.22558	0.2256
	41	2,6-Dinitrotoluene	165	14.946	14.946	(0.976)	4846	0.35154	0.3515
*	42	Acenaphthene-d10	164	15.310	15.318	(1.000)	216598	4.00000	
	43	3-Nitroaniline	138	15.232	15.233	(0.995)	5647	0.33704	0.3370
	44	Acenaphthene	153	15.379	15.379	(1.005)	13777	0.23514	0.2351
	45	2,4-Dinitrophenol	184	15.472	15.441	(1.011)	62	0.00530	0.005296(M)
	46	Dibenzofuran	168	15.712	15.712	(1.026)	21128	0.24047	0.2405
	47	4-Nitrophenol	109	15.634	15.549	(1.021)	1904	0.23747	0.2375(M)
	48	2,4-Dinitrotoluene	165	15.758	15.758	(1.029)	5711	0.30195	0.3020
	50	Diethylphthalate	149	16.268	16.268	(1.063)	18907	0.22772	0.2277
	49	Fluorene	166	16.423	16.423	(1.073)	21251	0.22736	0.2274
	51	4-Chlorophenyl-phenylether	204	16.407	16.415	(1.072)	9783	0.21379	0.2138
	52	4-Nitroaniline	138	16.523	16.508	(1.079)	6307	0.31284	0.3128
	53	4,6-Dinitro-2-methylphenol	198	16.600	16.608	(0.904)	2946	0.20197	0.2020
	54	N-Nitrosodiphenylamine	169	16.662	16.662	(0.907)	14446	0.24221	0.2422
$	55	2,4,6-Tribromophenol	330	16.963	16.963	(1.108)	2148	0.21169	0.2117(M)
	56	4-Bromophenyl-phenylether	248	17.418	17.418	(0.949)	5136	0.22742	0.2274
	57	Hexachlorobenzene	284	17.742	17.742	(0.966)	5677	0.22906	0.2291
	58	Pentachlorophenol	266	18.114	18.098	(0.987)	823	0.07669	0.07669(M)
*	59	Phenanthrene-d10	188	18.361	18.369	(1.000)	347572	4.00000	
	60	Phenanthrene	178	18.408	18.415	(1.003)	21884	0.24149	0.2415
	61	Anthracene	178	18.508	18.508	(1.008)	18882	0.21826	0.2183
	62	Carbazole	167	18.841	18.833	(1.026)	18183	0.21741	0.2174
	63	Di-n-butylphthalate	149	19.622	19.622	(1.069)	17991	0.19057	0.1906
	64	Fluoranthene	202	20.798	20.798	(0.889)	21465	0.23077	0.2308
	65	Pyrene	202	21.224	21.224	(0.907)	21631	0.22118	0.2212
$	66	Terphenyl-d14	244	21.495	21.495	(0.918)	15087	0.21757	0.2176
	67	Butylbenzylphthalate	149	22.408	22.416	(0.957)	7672	0.20800	0.2080
	68	Benzo(a)anthracene	228	23.376	23.376	(0.999)	21137	0.24154	0.2415
*	69	Chrysene-d12	240	23.407	23.407	(1.000)	288877	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.330	23.330	(0.997)	18651	0.69622	0.6962
	71	Chrysene	228	23.446	23.454	(1.002)	19952	0.24137	0.2414
	72	bis(2-Ethylhexyl)phthalate	149	23.430	23.438	(0.959)	10512	0.21854	0.2185
*	134	Di-n-octylphthalate-d4	153	24.429	24.429	(1.000)	433122	4.00000	
	73	Di-n-octylphthalate	149	24.437	24.437	(1.000)	25154	0.24194	0.2419
	74	Benzo(b)fluoranthene	252	25.296	25.304	(0.969)	19147	0.24594	0.2459
	75	Benzo(k)fluoranthene	252	25.343	25.343	(0.971)	20195	0.25486	0.2549
	76	Benzo(a)pyrene	252	25.978	25.978	(0.996)	15635	0.24158	0.2416
*	77	Perylene-d12	264	26.094	26.094	(1.000)	247727	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.861	28.854	(1.106)	10497	0.14268	0.1427
	79	Dibenzo(a,h)anthracene	278	28.869	28.861	(1.106)	9359	0.14970	0.1497
	80	Benzo(g,h,i)perylene	276	29.685	29.669	(1.138)	7577	0.12294	0.1229
	90	N-Nitrosodimethylamine	74	4.726	4.726	(0.516)	12751	0.49649	0.4965
	91	Aniline	93	8.611	8.619	(0.939)	24033	0.47136	0.4714
	93	Benzidine	184	21.030	21.015	(0.898)	12279	0.34708	0.3471
	103	Pyridine	79	4.780	4.757	(0.521)	19811	0.24276	0.2428
	105	1-methylnaphthalene	142	13.344	13.352	(1.143)	17117	0.23171	0.2317
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.739	16.739	(1.093)	18676	0.23219	0.2322

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.343	25.343	(0.971)	38292	0.50874	0.5087
120 2,3,4,6-Tetrachlorophenol	232	16.052	16.044	(1.048)	2022	0.13261	0.1326

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123051.D
Lab Smp Id: SKL0355-LCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230B.b\ABN.m
Misc Info:

Calibration Date: 31-DEC-2022
Calibration Time: 13:17
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	134439	67220	268878	116397	-13.42
27 Naphthalene-d8	492388	246194	984776	425902	-13.50
42 Acenaphthene-d10	270679	135340	541358	216598	-19.98
59 Phenanthrene-d10	429616	214808	859232	347572	-19.10
69 Chrysene-d12	376030	188015	752060	288877	-23.18
134 Di-n-octylphthala	634628	317314	1269256	433122	-31.75
77 Perylene-d12	336225	168113	672450	247727	-26.32

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.17	8.67	9.67	9.17	-0.00
27 Naphthalene-d8	11.68	11.18	12.18	11.67	-0.07
42 Acenaphthene-d10	15.32	14.82	15.82	15.31	-0.05
59 Phenanthrene-d10	18.37	17.87	18.87	18.36	-0.04
69 Chrysene-d12	23.41	22.91	23.91	23.41	-0.00
134 Di-n-octylphthala	24.43	23.93	24.93	24.43	-0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	-0.00

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

REVIEW SUMMARY FOR FILE - NT1422123051.D

Lab ID: SKL0355-LCV1
nt14.i, 20221230B.b\ABN.m,   31-DEC-2022 14:29

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.021	1.015	0.0061	4-Nitrophenol

RRT check based on Ccal File: NT1422123049.D

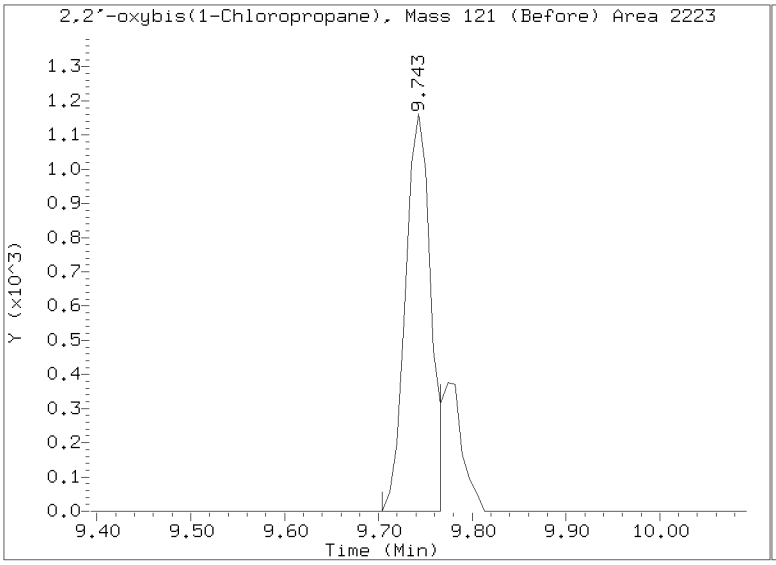
On Column LOD for nt14.i, 20221230B.b\ABN.m, ICAL.sub = 0.0000

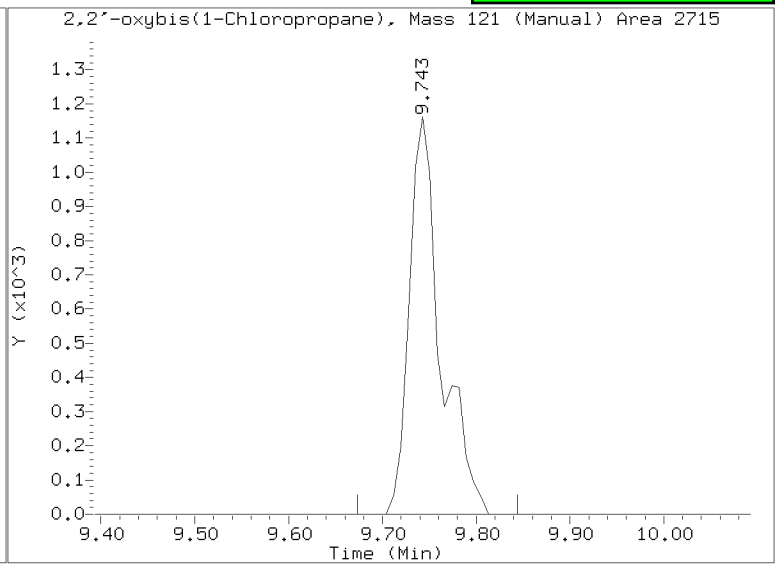
* Only compounds listed in the work order have been verified by the analyst *

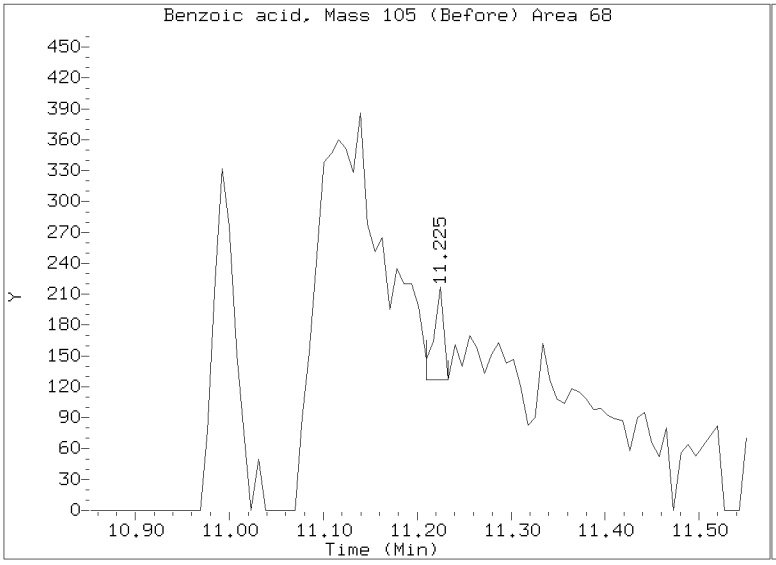
Quant Ion Manual Peak Adjustment Report

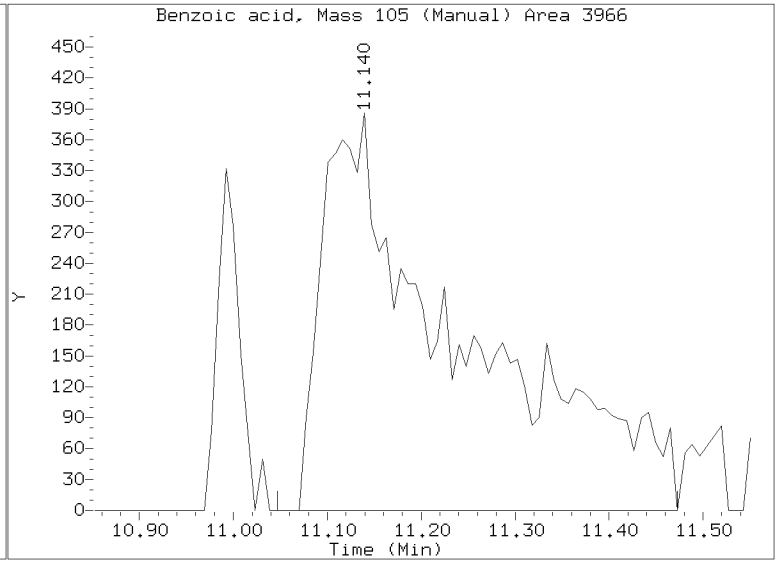
Datafile: //target/share/chem3/nt14.i/20221230B.b/NT1422123051.D
Injection Date: 31-DEC-2022 14:29
Lab ID:SKL0355-LCV1 Client ID:
Report Date: 01/04/2023 12:20

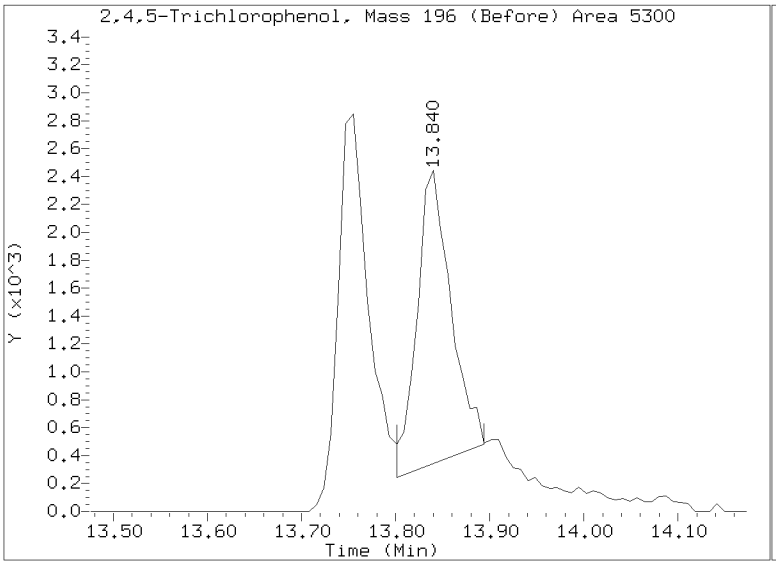
REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM

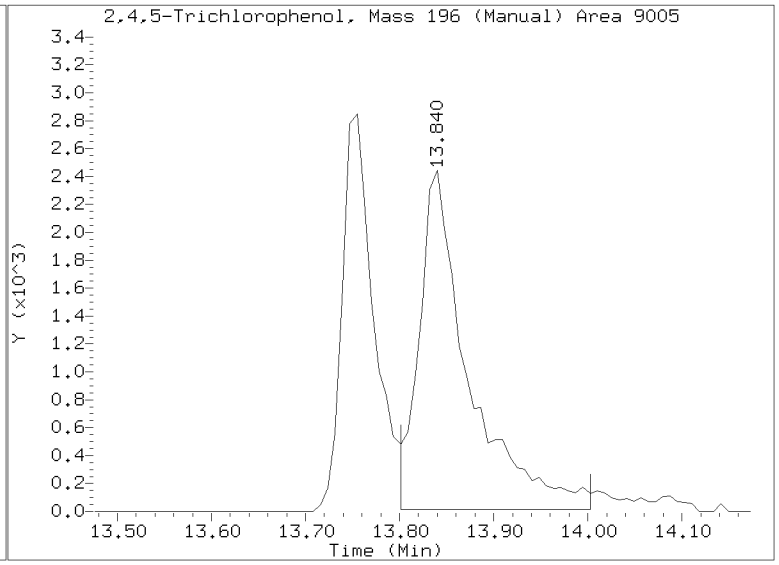












Quant Ion Manual Peak Adjustment Report

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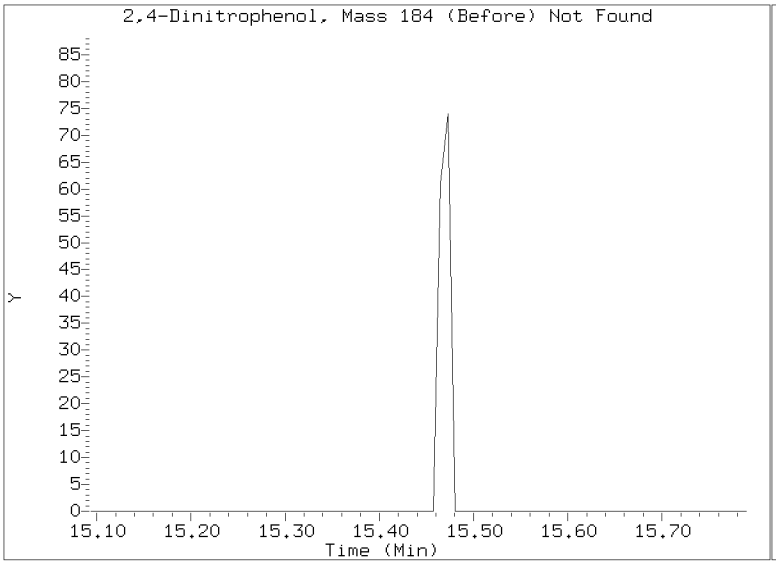
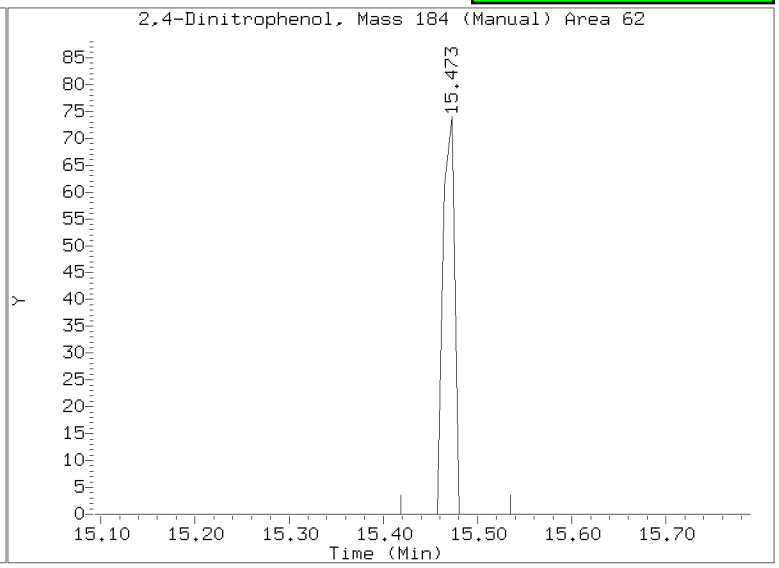
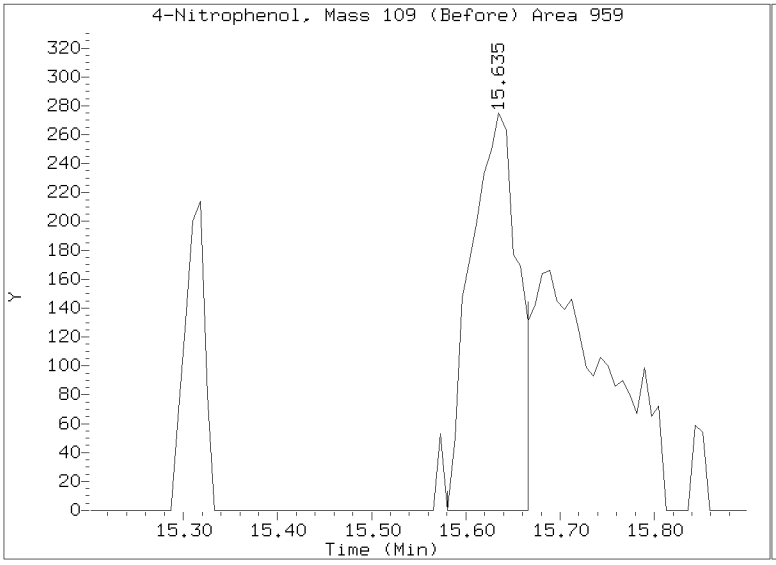
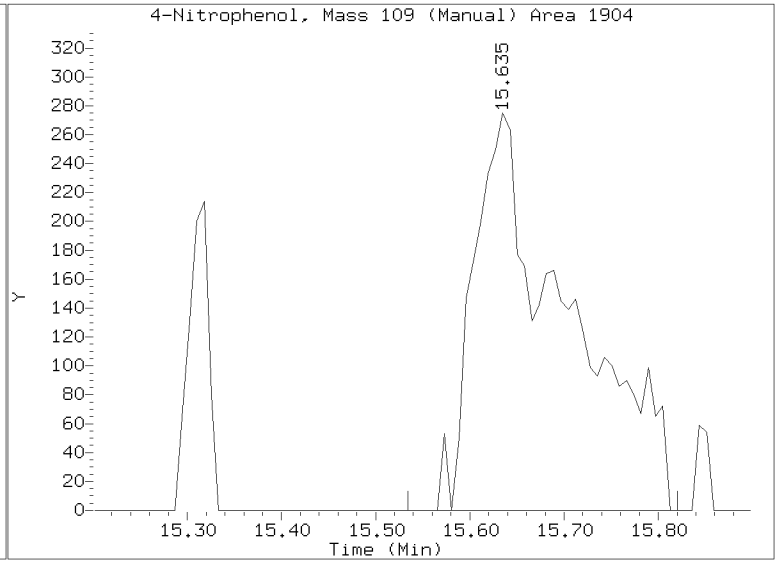
Injection Date: 31-DEC-2022 14:29
Lab ID:SKL0355-LCV1 Client ID:
Report Date: 01/04/2023 12:20

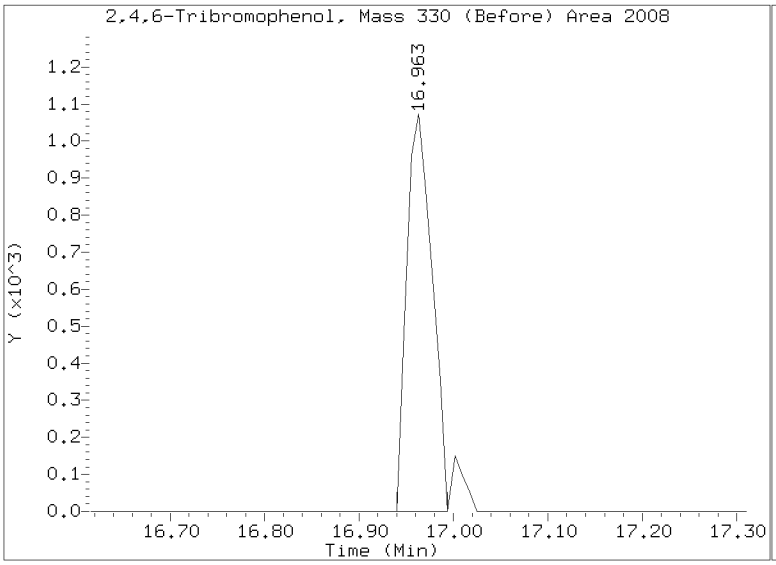
REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM

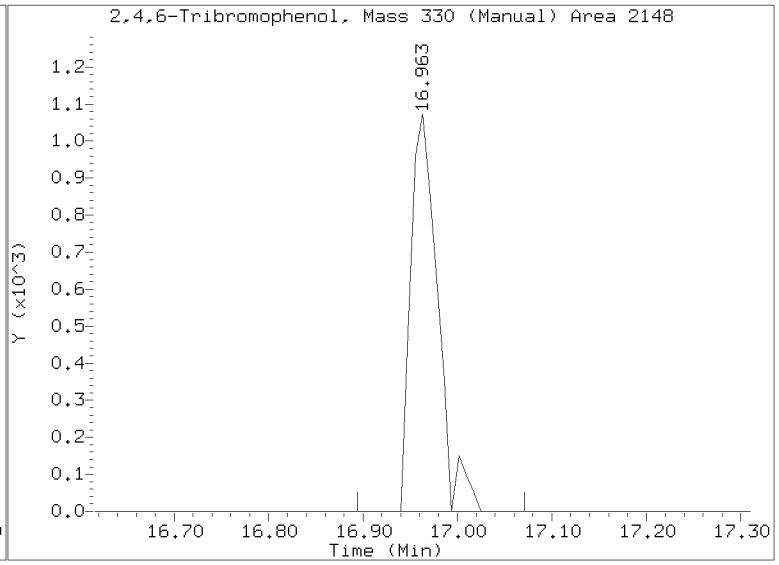








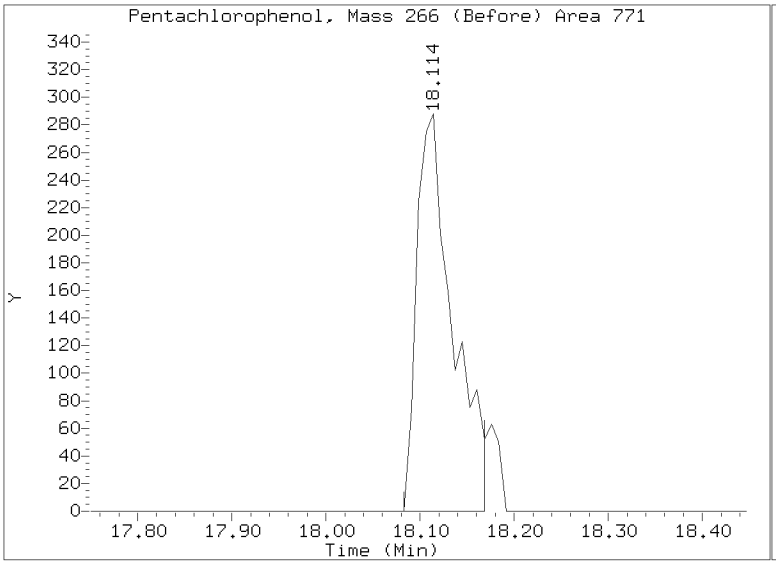


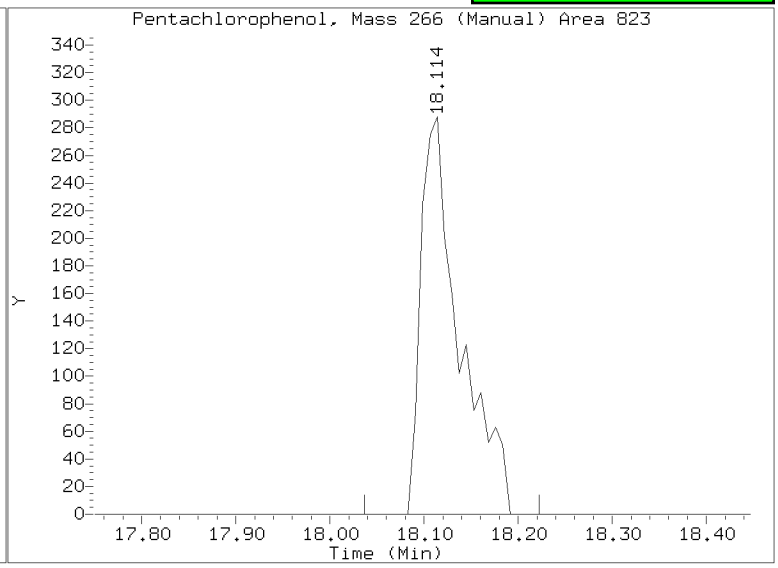


Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230B.b/NT1422123051.D
Injection Date: 31-DEC-2022 14:29
Lab ID:SKL0355-LCV1 Client ID:
Report Date: 01/04/2023 12:20

REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM





Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION CONTINUING CALIBRATION CHECK

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123052.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/31/22
Lab Sample ID:	SKL0355-LCV2	Injection Time:	15:05
Sequence Name:	ABN 0.5		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol	A	0.50000	0.5	1.7995200	1.7325950		-3.7	+/-50
bis(2-chloroethyl) ether	A	0.50000	0.5	1.2396270	1.2028800		-3.0	+/-50
2-Chlorophenol	A	0.50000	0.5	1.4607190	1.4773280		1.1	+/-50
1,3-Dichlorobenzene	A	0.50000	0.5	1.5489360	1.5328030		-1.0	+/-50
1,4-Dichlorobenzene	A	0.50000	0.5	1.4674070	1.4452280		-1.5	+/-50
1,2-Dichlorobenzene	A	0.50000	0.5	1.4391100	1.3937480		-3.2	+/-50
Benzyl Alcohol	A	0.50000	0.4	0.8011083	0.6069011		-24.2	+/-50
2,2'-Oxybis(1-chloropropane)	A	0.50000	0.5	0.4172325	0.3849990		-7.7	+/-50
2-Methylphenol	A	0.50000	0.5	1.3076140	1.2638830		-3.3	+/-50
Hexachloroethane	A	0.50000	0.4	0.5396966	0.4023809		-25.4	+/-50
N-Nitroso-di-n-Propylamine	A	0.50000	0.5	0.7965591	0.7414943		-6.9	+/-50
4-Methylphenol	A	0.50000	0.5	1.3794240	1.3097020		-5.1	+/-50
Nitrobenzene	A	0.50000	0.5	0.3354574	0.3113681		-7.2	+/-50
Isophorone	A	0.50000	0.4	0.4275424	0.3691814		-13.7	+/-50
2-Nitrophenol	A	0.50000	0.5	0.2064997	0.1872995		-8.8	+/-50
2,4-Dimethylphenol	A	1.0000	1.0	0.3501131	0.3459800		-1.2	+/-50
Bis(2-Chloroethoxy)methane	A	0.50000	0.5	0.3325989	0.3219622		-3.2	+/-50
2,4-Dichlorophenol	A	1.0000	1.0	0.2951237	0.2928144		-0.8	+/-50
1,2,4-Trichlorobenzene	A	0.50000	0.5	0.3191088	0.3073790		-3.7	+/-50
Naphthalene	A	0.50000	0.5	0.9843833	0.9536598		-3.1	+/-50
Benzoic acid	A	2.0000	0.3	0.1508906	0.0352427		-83.5	+/-50
4-Chloroaniline	A	1.0000	0.9	0.4059568	0.3530953		-13.0	+/-50
Hexachlorobutadiene	A	0.50000	0.5	0.1583286	0.1491346		-5.8	+/-50
4-Chloro-3-Methylphenol	A	1.0000	1.0	0.2785027	0.2652529		-4.8	+/-50
2-Methylnaphthalene	A	0.50000	0.5	0.7220739	0.6753359		-6.5	+/-50
Hexachlorocyclopentadiene	A	1.0000	0.1	0.3023695	0.0324758		-89.3	+/-50
2,4,6-Trichlorophenol	A	1.0000	0.9	0.3338641	0.2972496		-11.0	+/-50
2,4,5-Trichlorophenol	A	1.0000	0.9	0.3853234	0.3465413		-10.1	+/-50
2-Chloronaphthalene	A	0.50000	0.5	1.1441150	1.1170750		-2.4	+/-50
2-Nitroaniline	A	1.0000	0.9	0.3007956	0.2768032		-8.0	+/-50
Acenaphthylene	A	0.50000	0.5	1.7445240	1.8565410		6.4	+/-50
Dimethylphthalate	A	0.50000	0.5	1.1280520	1.0504970		-6.9	+/-50
2,6-Dinitrotoluene	A	1.0000	0.9	0.2545771	0.2167644		-14.9	+/-50
Acenaphthene	A	0.50000	0.5	1.0820160	1.0745560		-0.7	+/-50

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION CONTINUING CALIBRATION CHECK

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123052.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/31/22
Lab Sample ID:	SKL0355-LCV2	Injection Time:	15:05
Sequence Name:	ABN 0.5		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
3-Nitroaniline	A	1.0000	0.8	0.3094189	0.2476688		-20.0	+/-50
2,4-Dinitrophenol	A	2.0000	0.1	0.1831718	0.0156780		-92.8	+/-50
Dibenzofuran	A	0.50000	0.5	1.6225950	1.5989740		-1.5	+/-50
4-Nitrophenol	A	1.0000	0.6	0.1384031	0.0959645		-35.2	+/-50
2,4-Dinitrotoluene	A	1.0000	0.8	0.3492859	0.2720167		-22.1	+/-50
Fluorene	A	0.50000	0.5	1.7261350	1.6695970		-3.3	+/-50
4-Chlorophenylphenyl ether	A	0.50000	0.5	0.8450792	0.7748683		-8.3	+/-50
Diethyl phthalate	A	0.50000	0.5	1.5332690	1.6478860		7.5	+/-50
4-Nitroaniline	A	1.0000	0.8	0.3413732	0.2954253		-20.7	+/-50
4,6-Dinitro-2-methylphenol	A	2.0000	0.8	0.1530278	0.0635845		-62.2	+/-50
N-Nitrosodiphenylamine	A	0.50000	0.5	0.6863845	0.7018379		2.3	+/-50
4-Bromophenyl phenyl ether	A	0.50000	0.5	0.2599074	0.2548545		-1.9	+/-50
Hexachlorobenzene	A	0.50000	0.5	0.2852204	0.2795359		-2.0	+/-50
Pentachlorophenol	A	1.0000	0.2	0.1128364	0.0278031		-77.5	+/-50
Phenanthrene	A	0.50000	0.5	1.0429190	1.0191030		-2.3	+/-50
Anthracene	A	0.50000	0.5	0.9956202	0.9325724		-6.3	+/-50
Carbazole	A	0.50000	0.5	0.9624945	0.8870049		-7.8	+/-50
Di-n-Butylphthalate	A	0.50000	0.4	1.0394700	0.9331563		-14.3	+/-50
Fluoranthene	A	0.50000	0.5	1.2879410	1.1960540		-7.1	+/-50
Pyrene	A	0.50000	0.5	1.3541610	1.2671330		-6.4	+/-50
Butylbenzylphthalate	A	0.50000	0.4	0.4650792	0.4535222		-11.3	+/-50
Benzo(a)anthracene	A	0.50000	0.5	1.2117210	1.1750560		-3.0	+/-50
3,3'-Dichlorobenzidine	A	1.5000	1.5	0.3709370	0.3656682		-1.4	+/-50
Chrysene	A	0.50000	0.5	1.1445730	1.1213670		-2.0	+/-50
bis(2-Ethylhexyl)phthalate	A	0.50000	0.5	0.4442323	0.4179763		-5.9	+/-50
Di-n-Octylphthalate	A	0.50000	0.5	0.9601702	0.9369664		-2.4	+/-50
Benzofluoranthenes, Total	A	1.0000	1.0	1.2153330	1.2422410		2.2	+/-50
Benzo(a)pyrene	A	0.50000	0.5	1.0450150	1.0482420		0.3	+/-50
Indeno(1,2,3-cd)pyrene	A	0.50000	0.3	1.1879490	0.7686082		-35.3	+/-50
Dibenzo(a,h)anthracene	A	0.50000	0.3	1.0094890	0.6655969		-34.1	+/-50
Benzo(g,h,i)perylene	A	0.50000	0.3	0.9951726	0.5323711		-46.5	+/-50
1-Methylnaphthalene	A	0.50000	0.5	0.6937882	0.6611238		-4.7	+/-50
2-Fluorophenol	A	0.75000	0.711	1.2814900	1.2153120		-5.2	+/-50
Phenol-d5	A	0.75000	0.658	1.5836890	1.3889980		-12.3	+/-50

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123052.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/31/22
Lab Sample ID:	SKL0355-LCV2	Injection Time:	15:05
Sequence Name:	ABN 0.5		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2-Chlorophenol-d4	A	0.75000	0.686	1.3300510	1.2163330		-8.5	+/-50
1,2-Dichlorobenzene-d4	A	0.50000	0.471	0.9090592	0.8557086		-5.9	+/-50
Nitrobenzene-d5	A	0.50000	0.460	0.3377760	0.3106074		-8.0	+/-50
2-Fluorobiphenyl	A	0.50000	0.474	1.3448860	1.2758050		-5.1	+/-50
2,4,6-Tribromophenol	A	0.75000	0.536	0.1844845	0.1341178		-28.6	+/-50
p-Terphenyl-d14	A	0.50000	0.454	0.9601842	0.8718034		-9.2	+/-50

* Values outside of QC limits

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Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123052.D

Page 1

Date : 31-DEC-2022 15:05

Client ID:

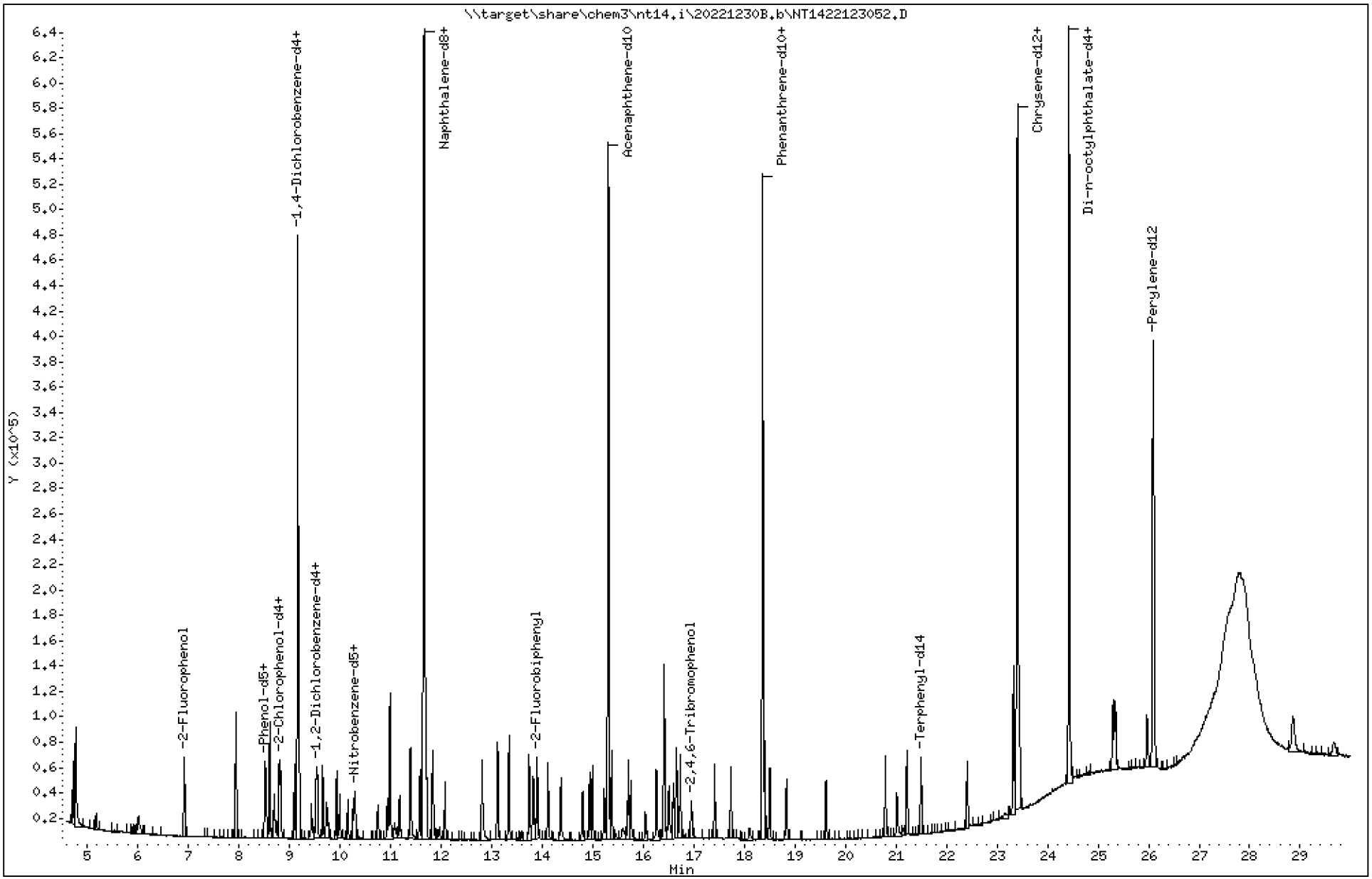
Instrument: nt14.i

Sample Info: SKL0356-LCV2

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

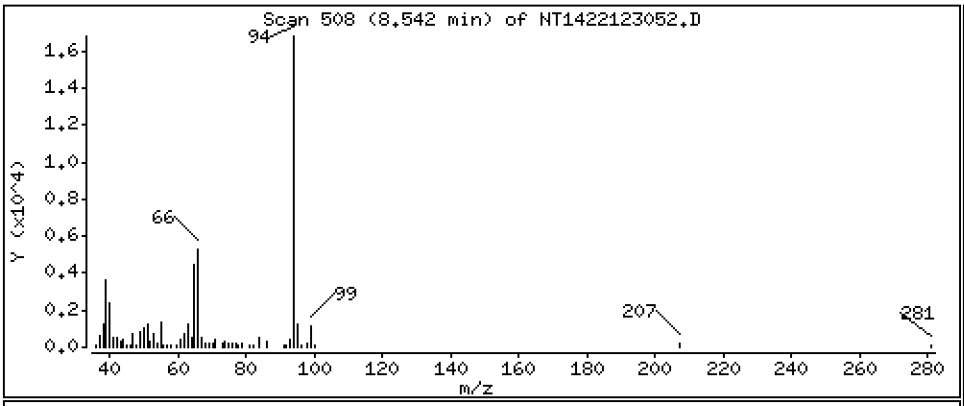
Operator: VTS

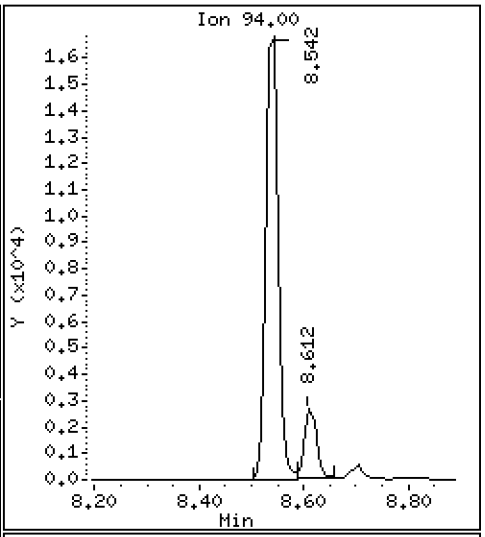
Column phase: ZB-5msi

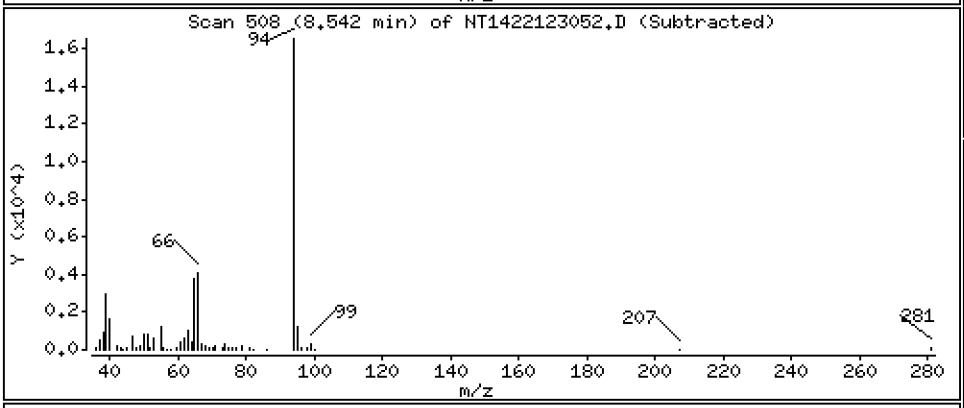
Column diameter: 0.25

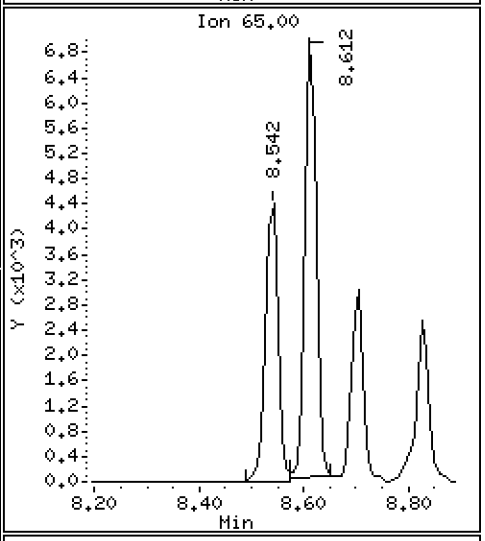
3 Phenol

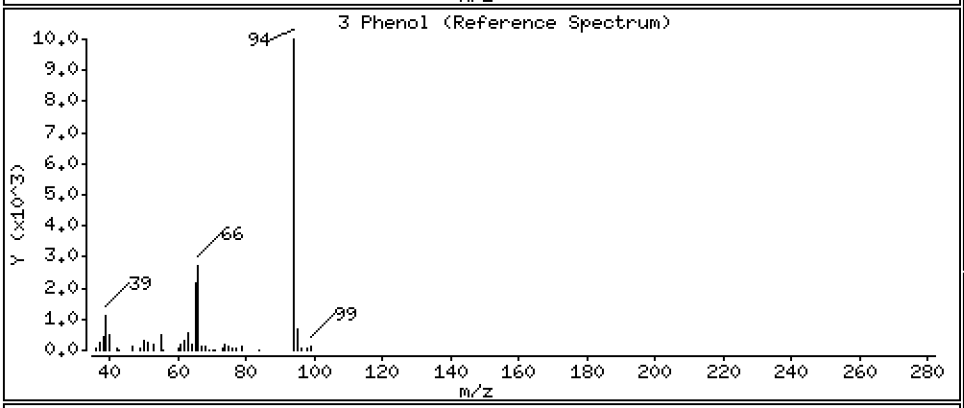
Concentration: 0.4814 ug/mL

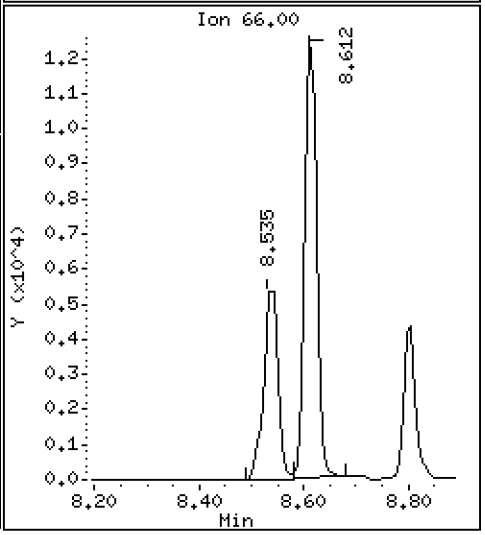


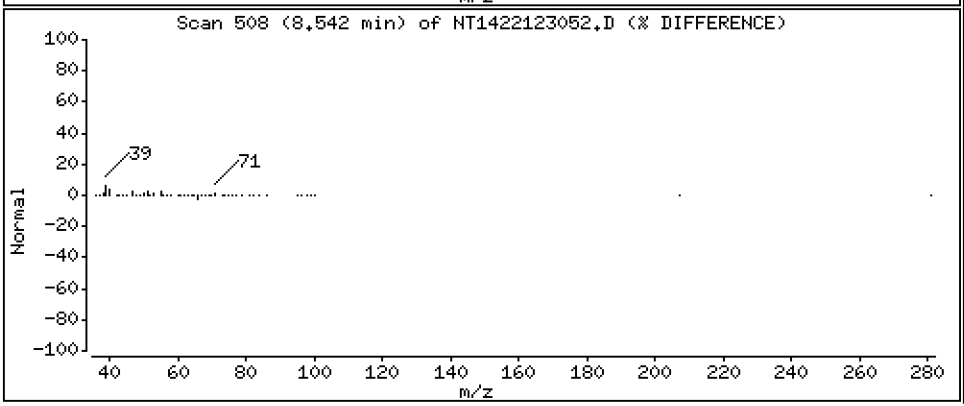












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

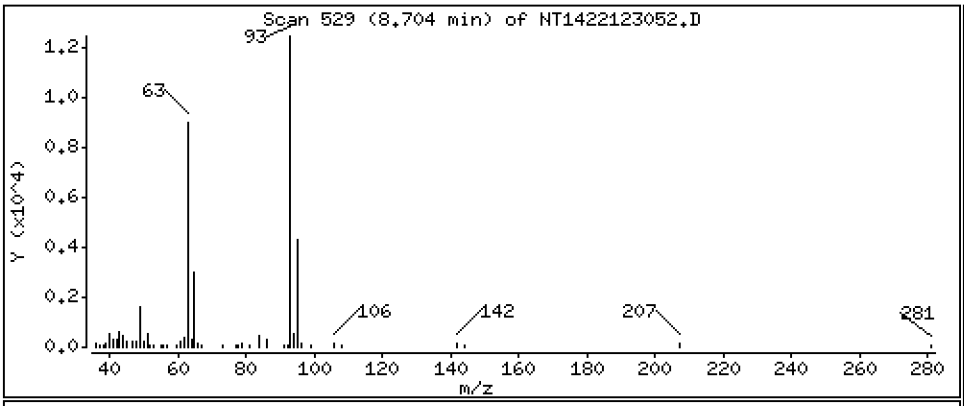
Operator: VTS

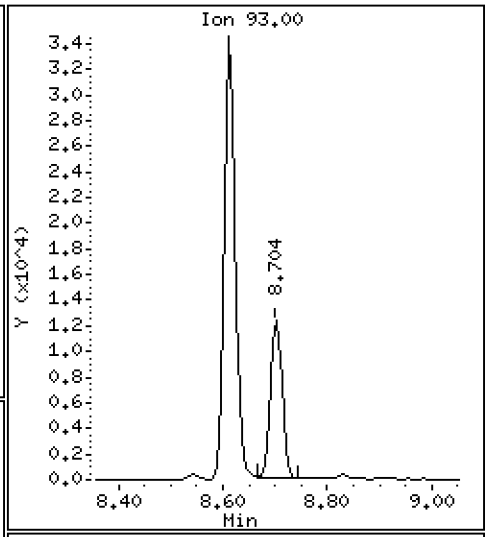
Column phase: ZB-5msi

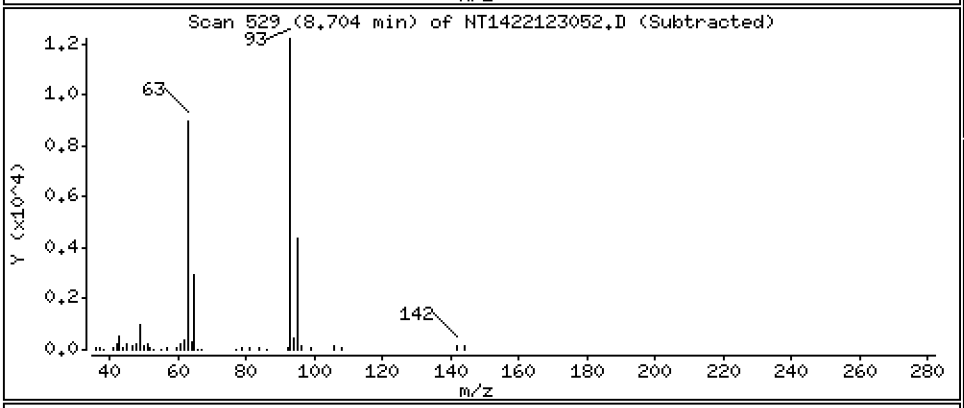
Column diameter: 0.25

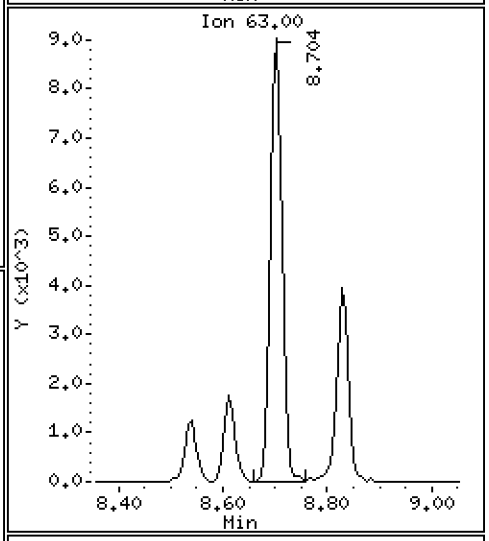
4 Bis(2-Chloroethyl)ether

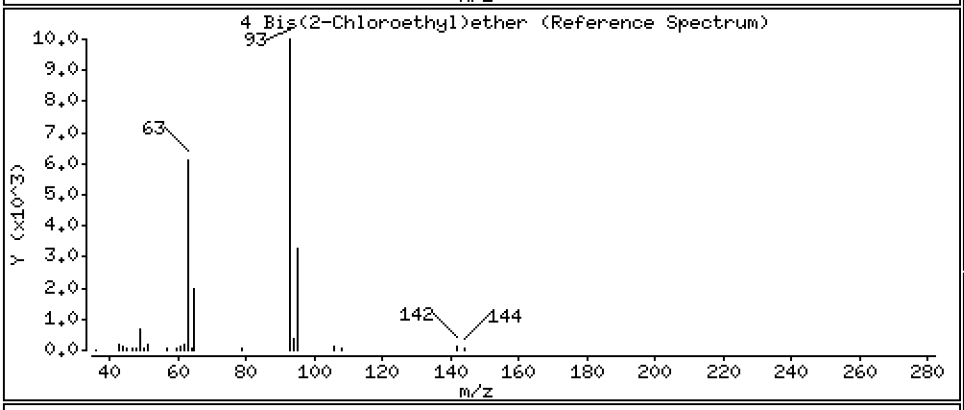
Concentration: 0.4852 ug/mL

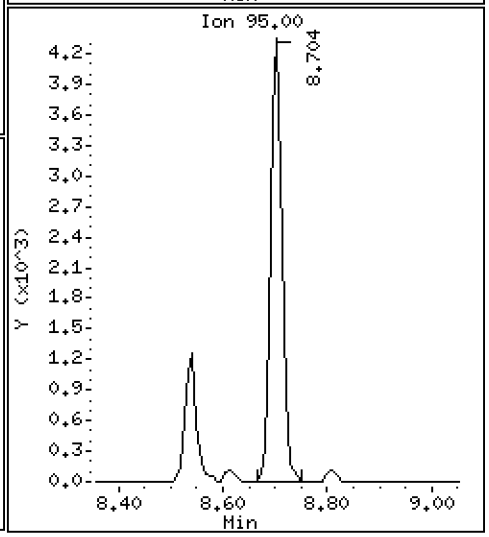


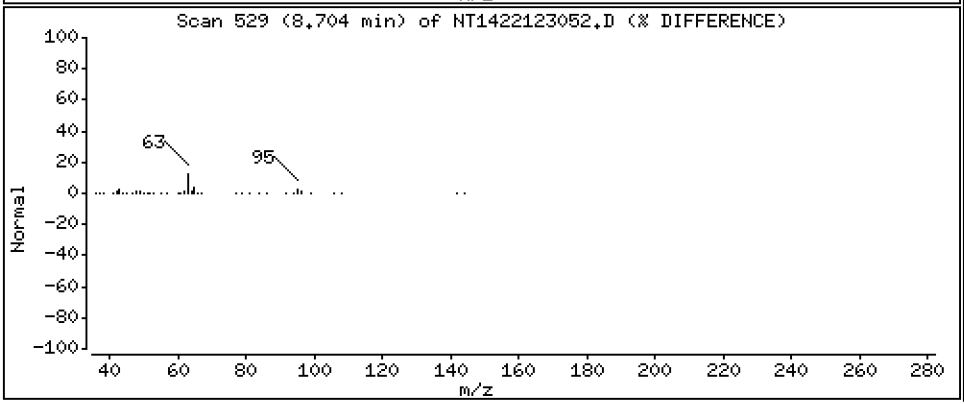












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

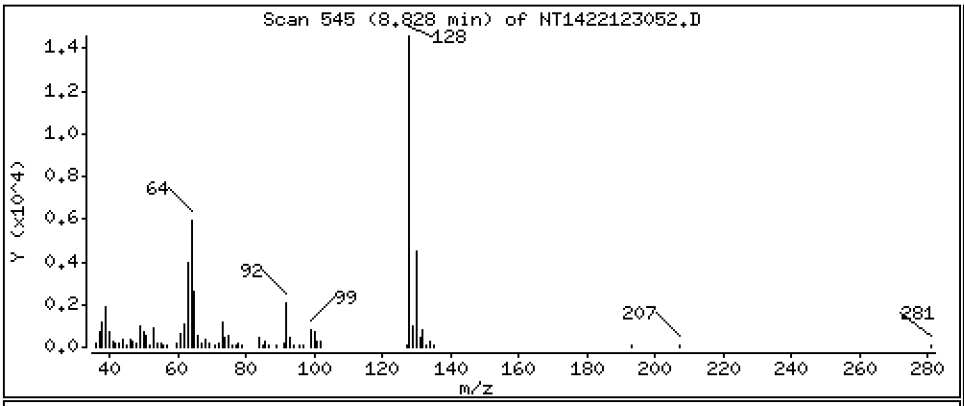
Operator: VTS

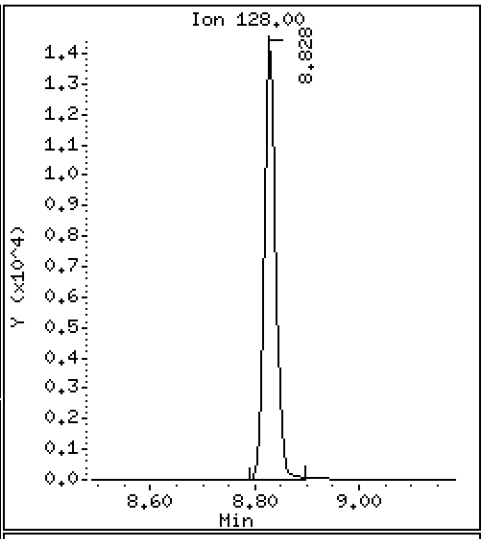
Column phase: ZB-5msi

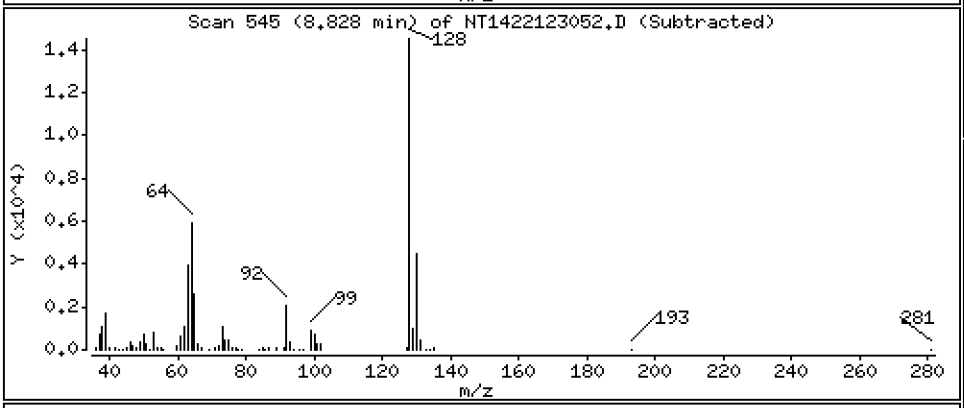
Column diameter: 0.25

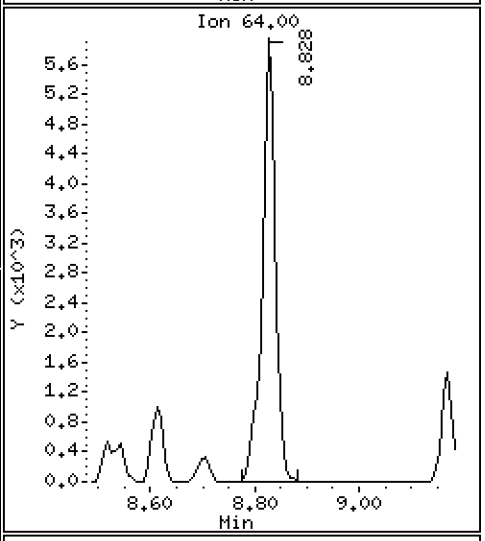
6 2-Chlorophenol

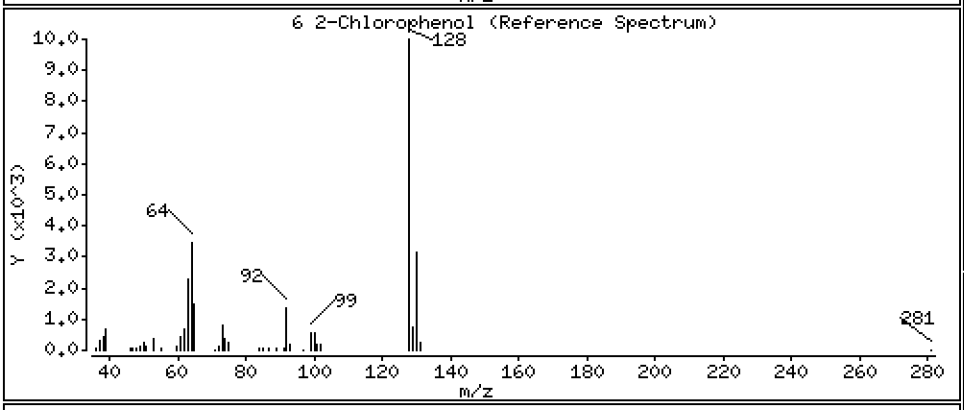
Concentration: 0.5057 ug/mL

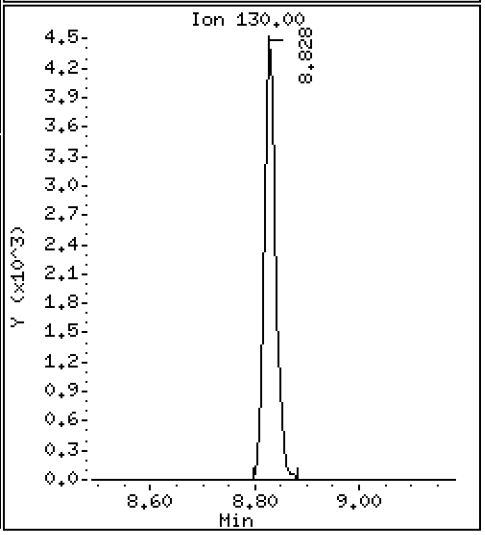


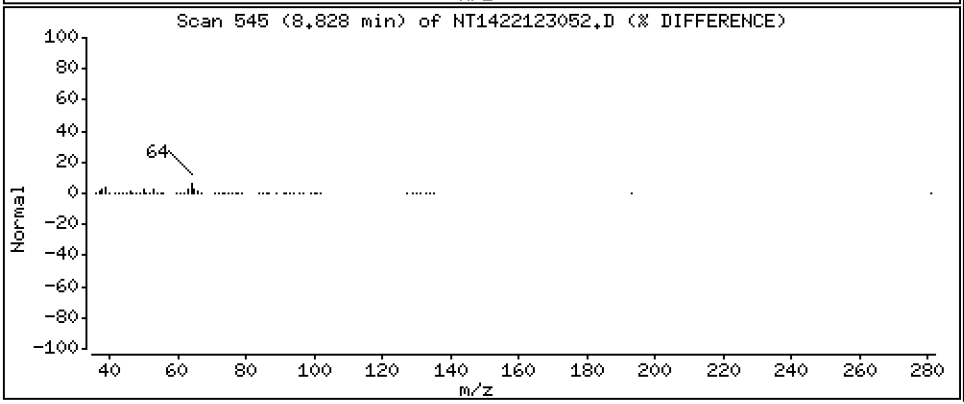












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

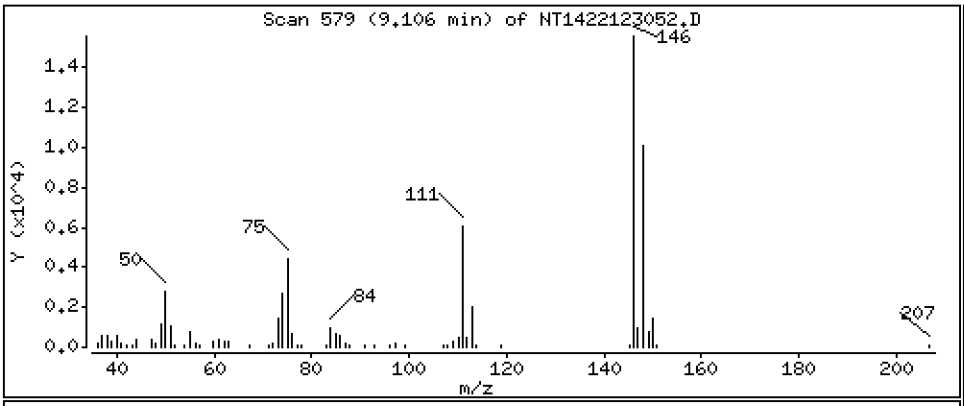
Operator: VTS

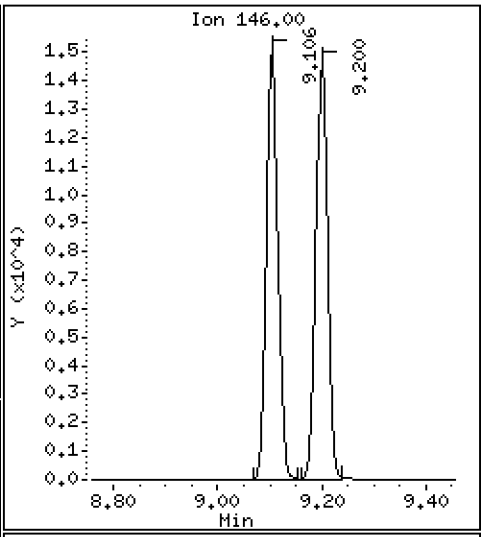
Column phase: ZB-5msi

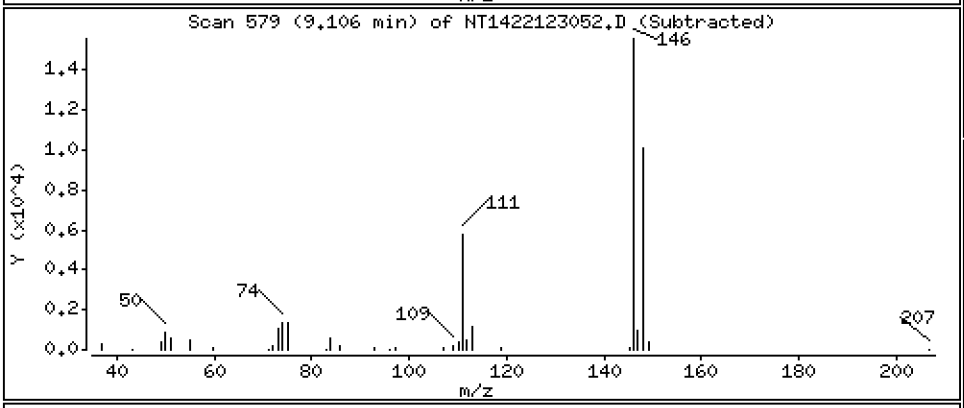
Column diameter: 0.25

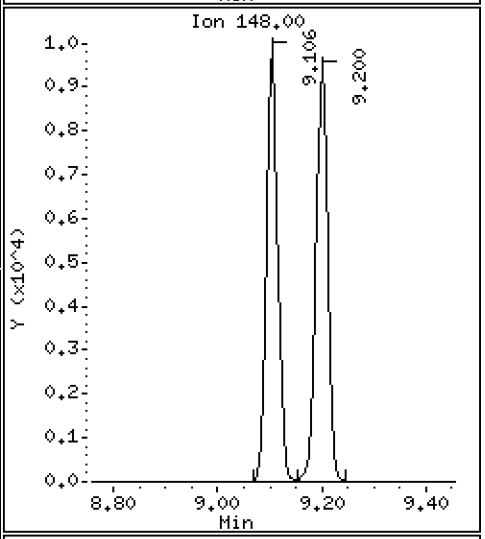
7 1,3-Dichlorobenzene

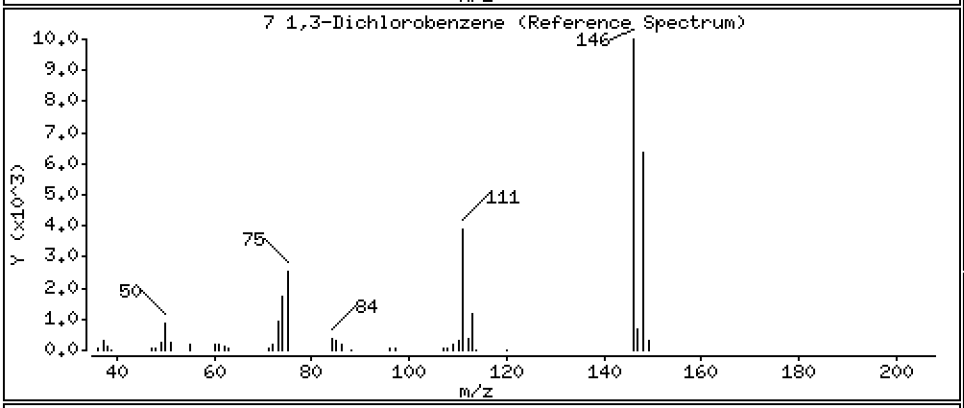
Concentration: 0.4948 ug/mL

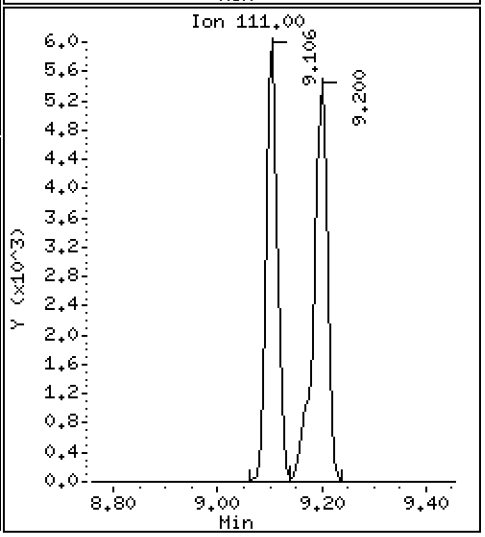


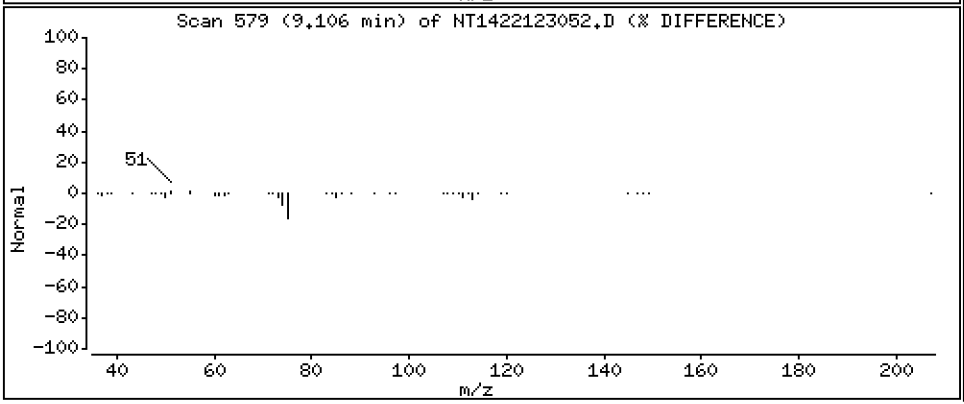












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

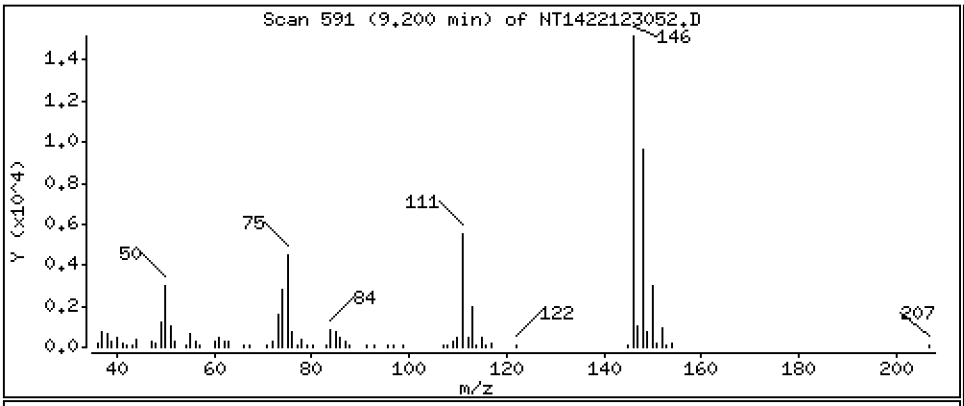
Operator: VTS

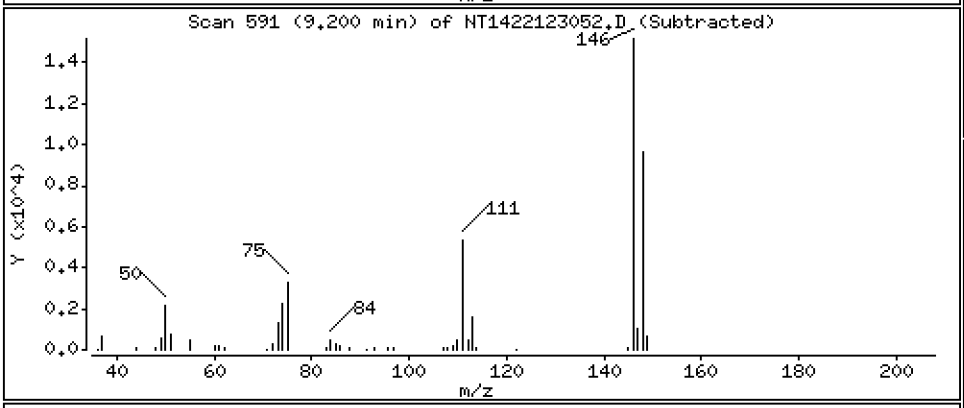
Column phase: ZB-5msi

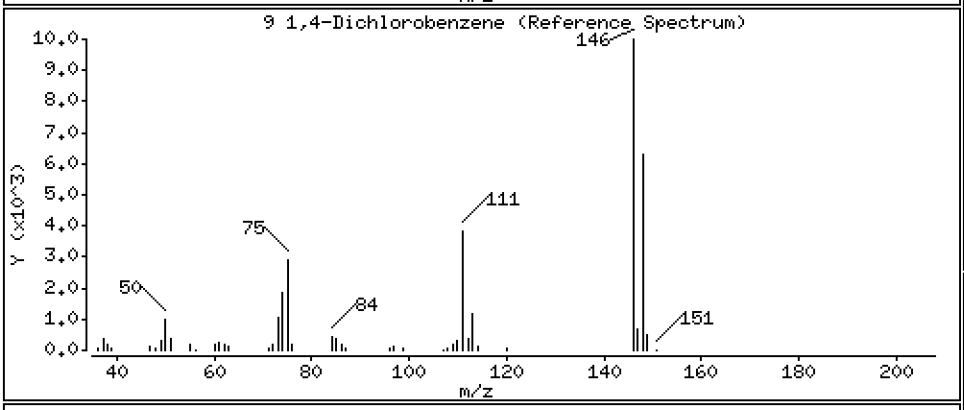
Column diameter: 0.25

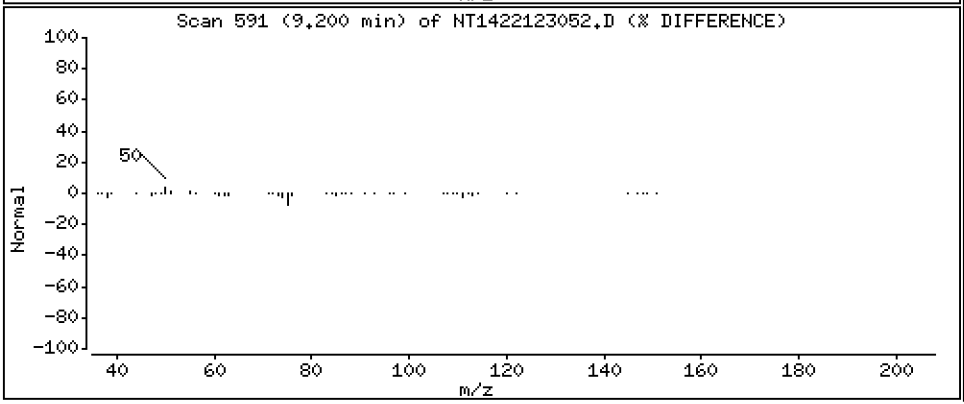
9 1,4-Dichlorobenzene

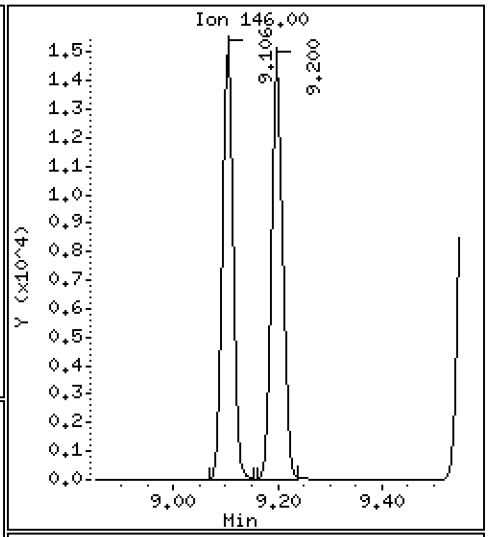
Concentration: 0.4924 ug/mL

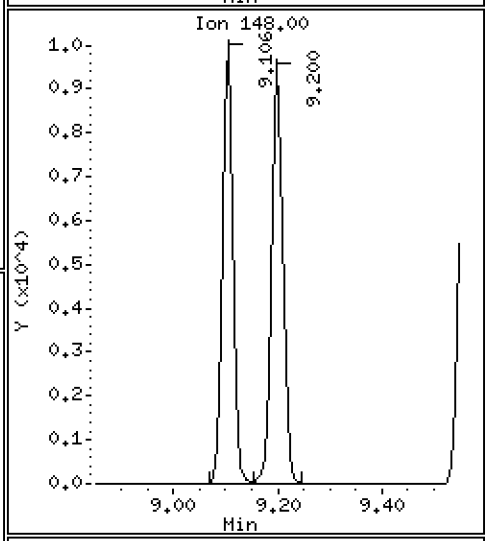


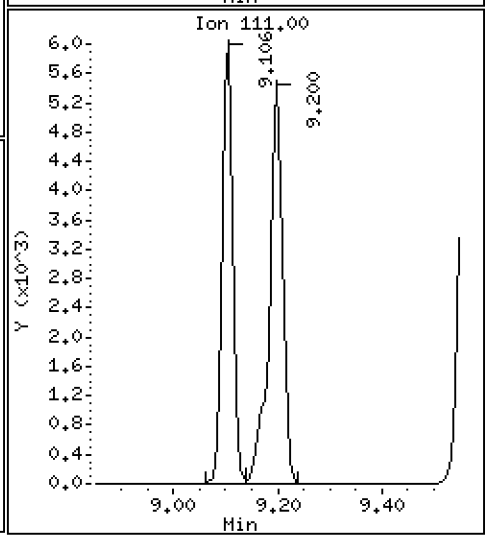












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

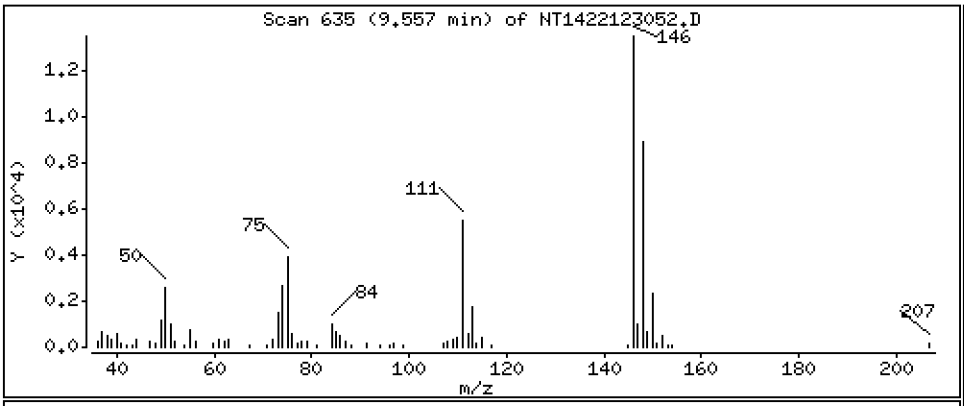
Operator: VTS

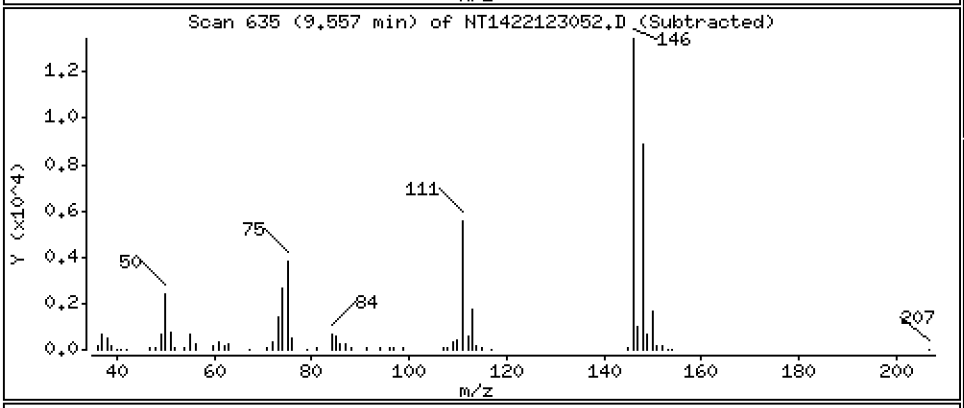
Column phase: ZB-5msi

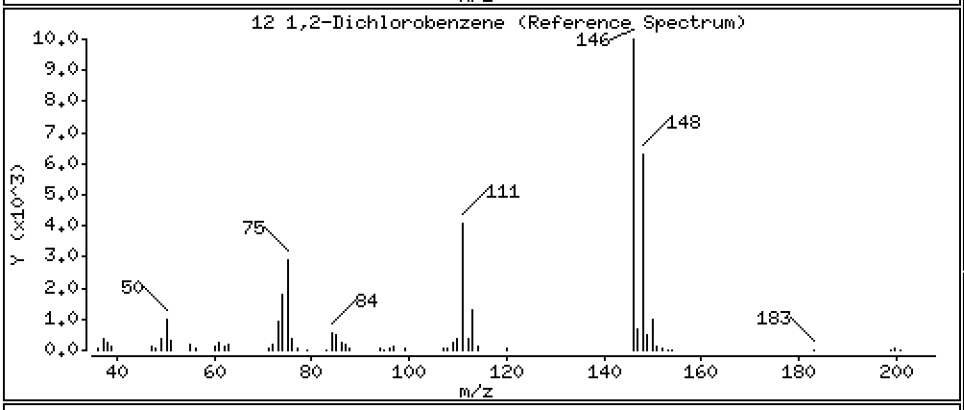
Column diameter: 0.25

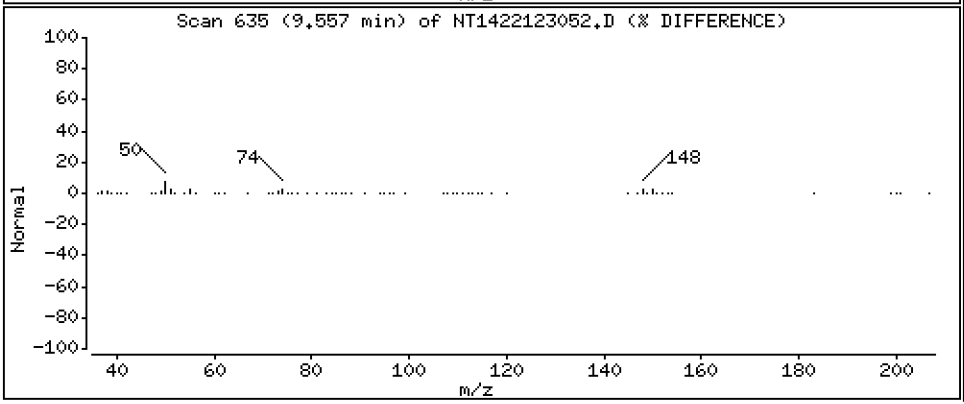
12 1,2-Dichlorobenzene

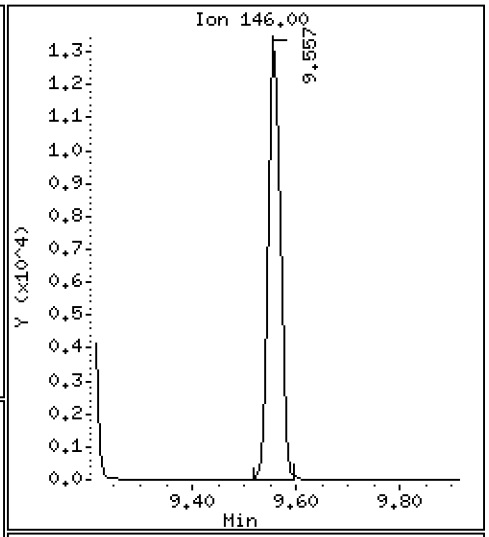
Concentration: 0.4842 ug/mL

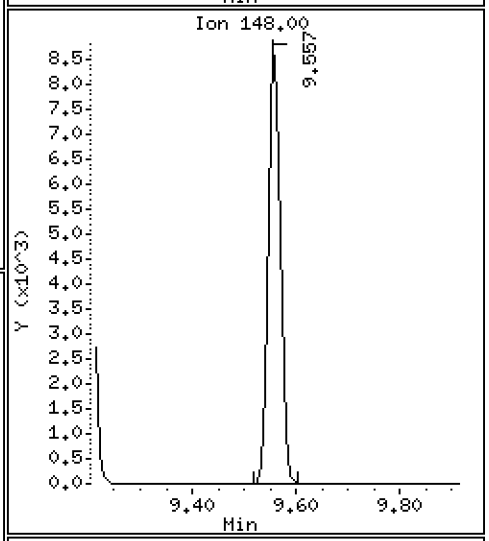


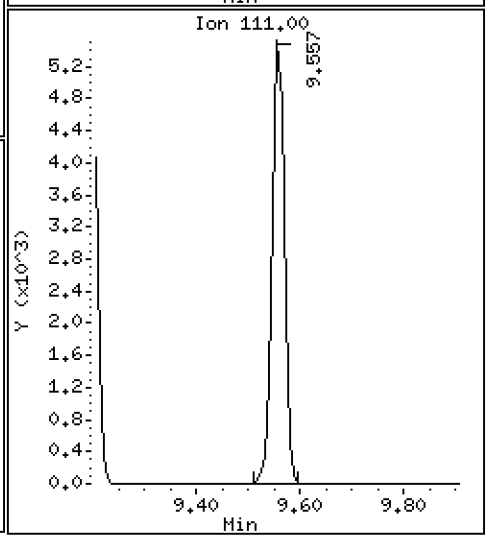












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

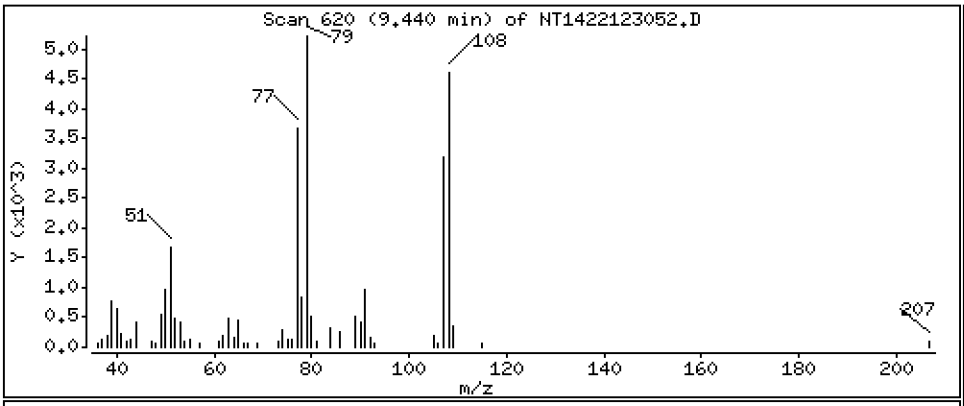
Operator: VTS

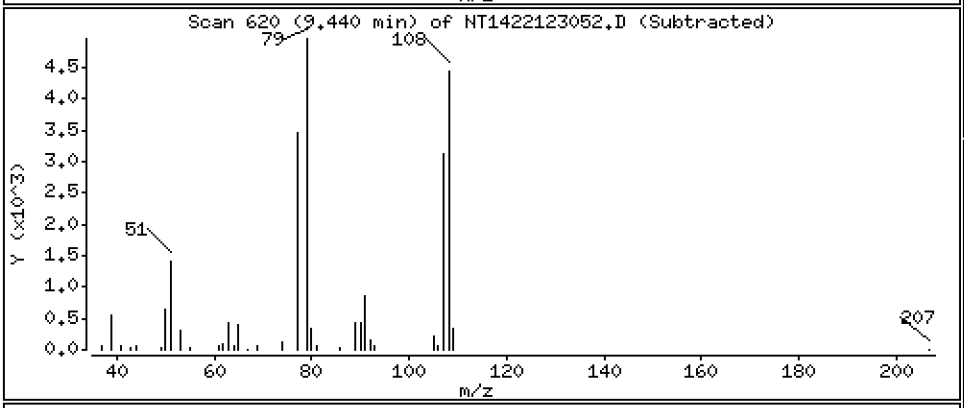
Column phase: ZB-5msi

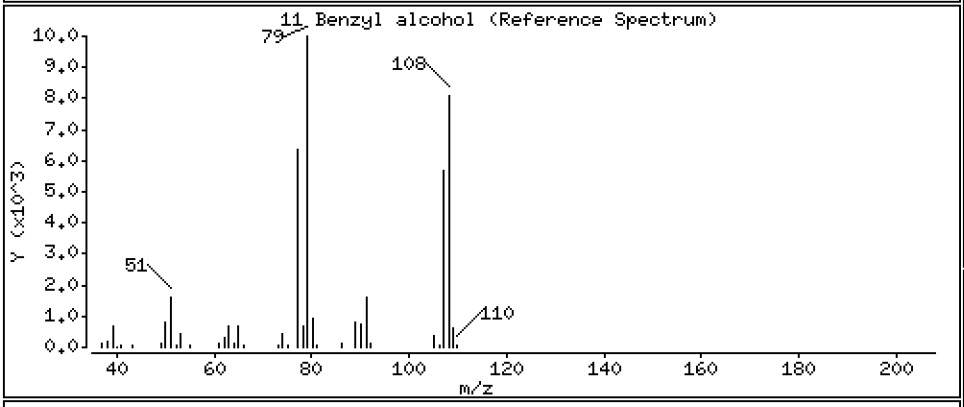
Column diameter: 0.25

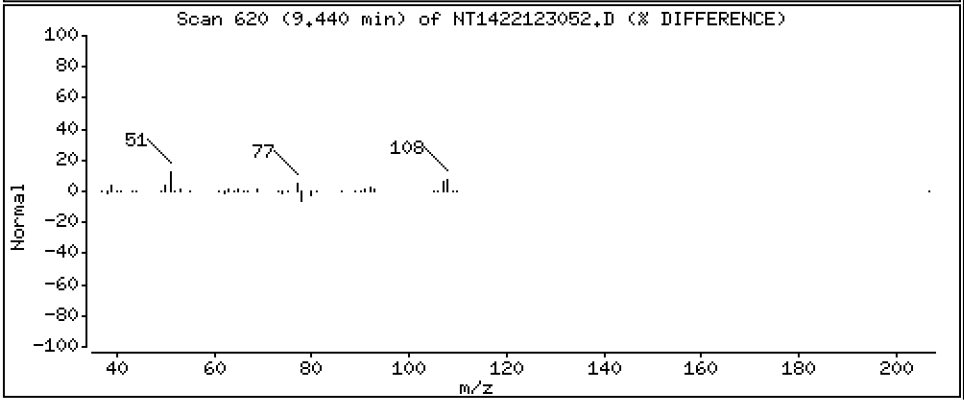
11 Benzyl alcohol

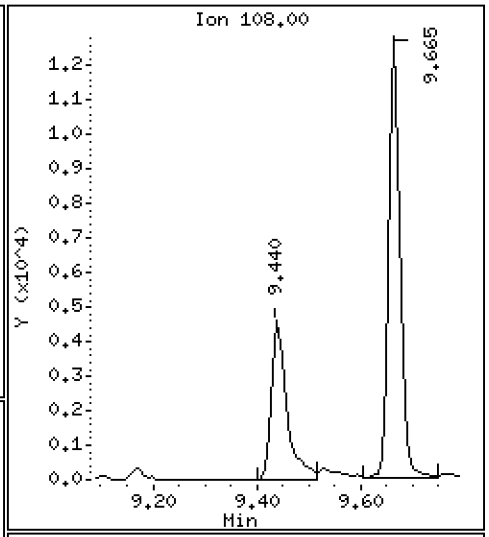
Concentration: 0.3788 ug/mL

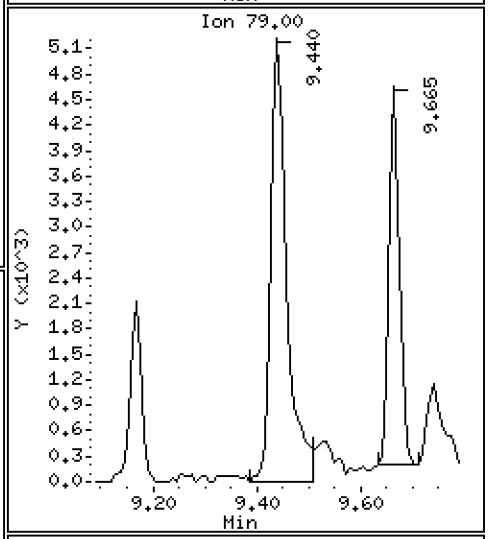


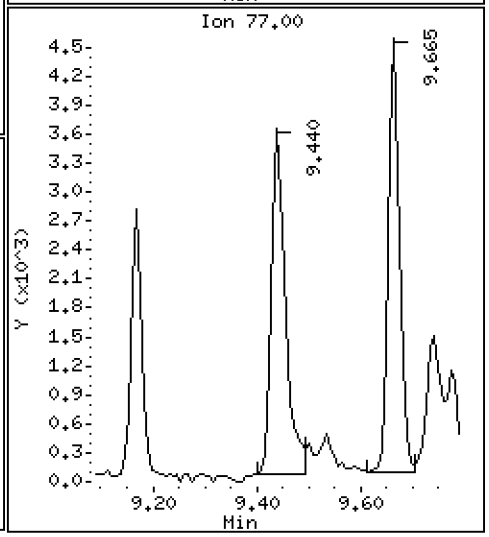












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

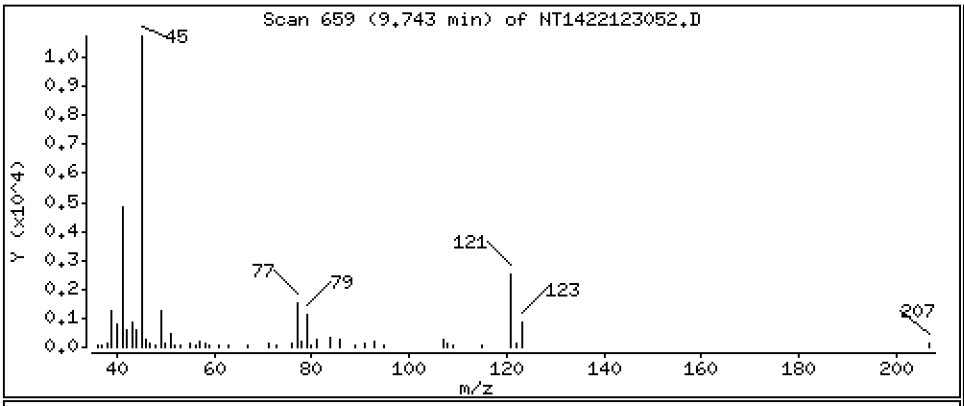
Operator: VTS

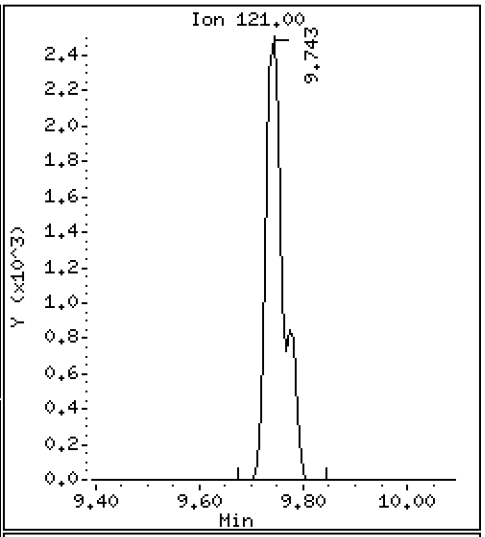
Column phase: ZB-5msi

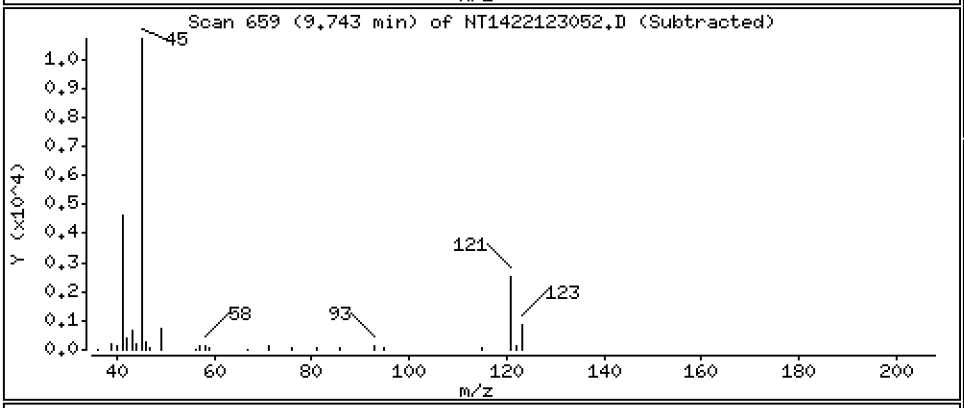
Column diameter: 0.25

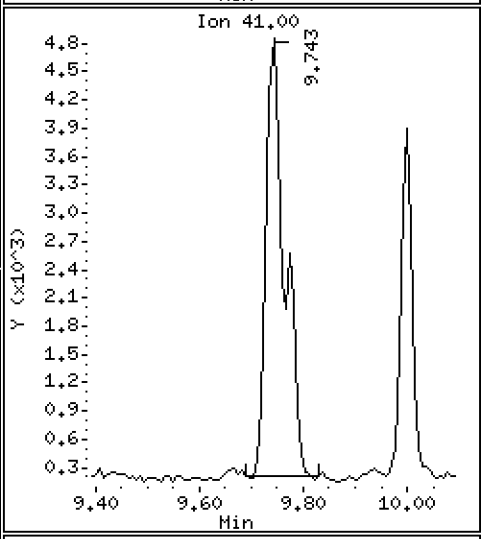
14 2,2'-oxybis(1-Chloropropane)

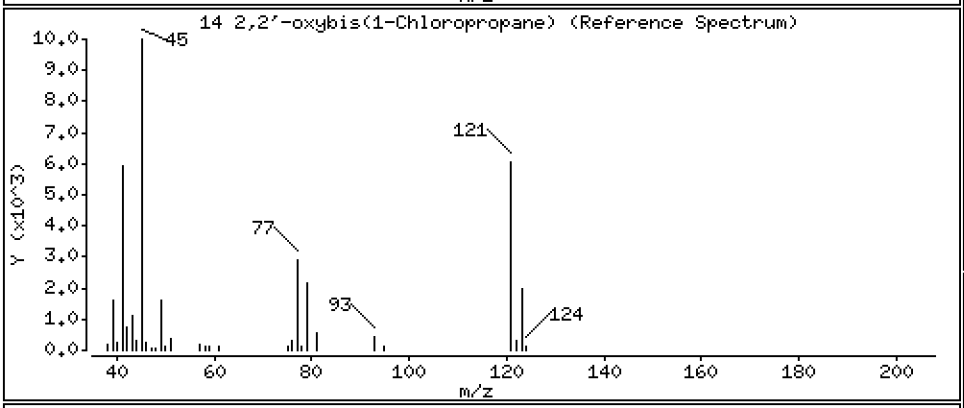
Concentration: 0.4614 ug/mL

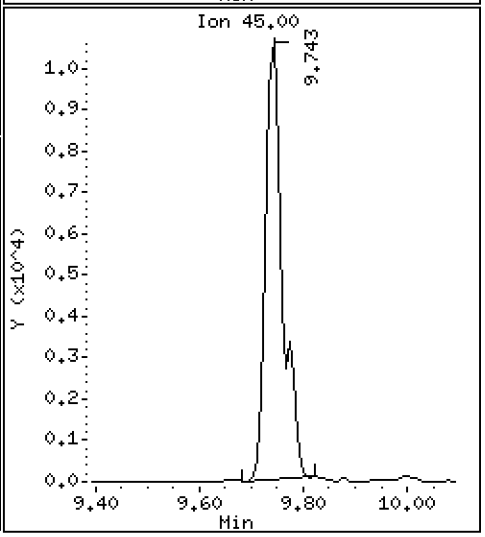


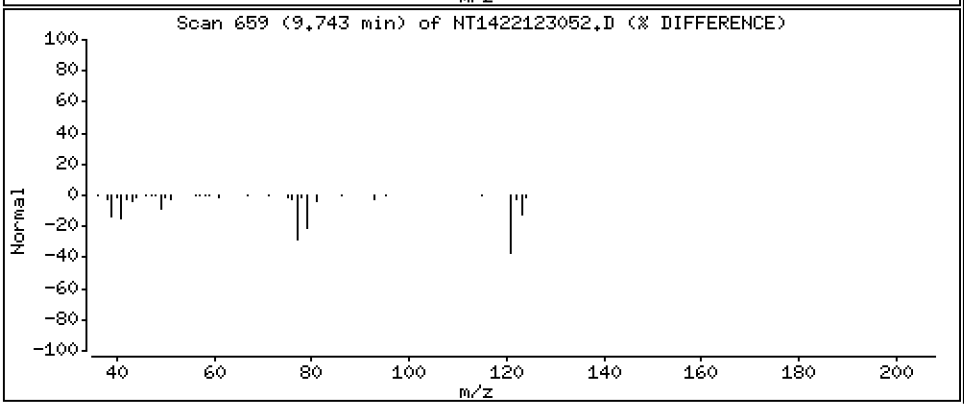












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

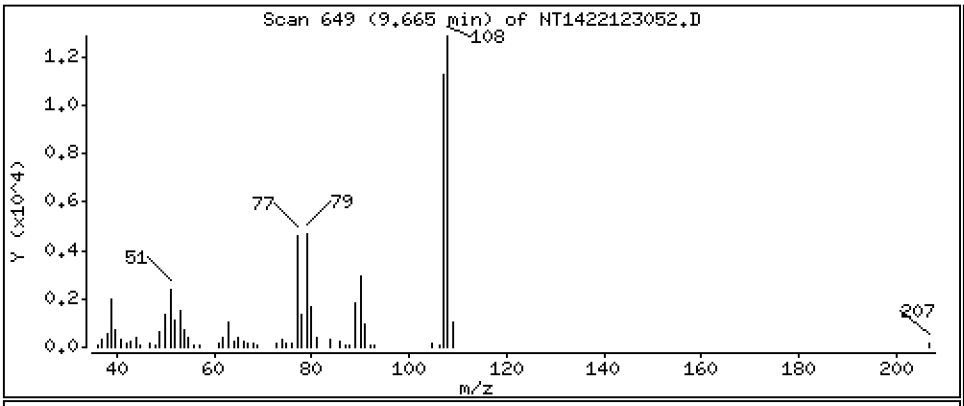
Operator: VTS

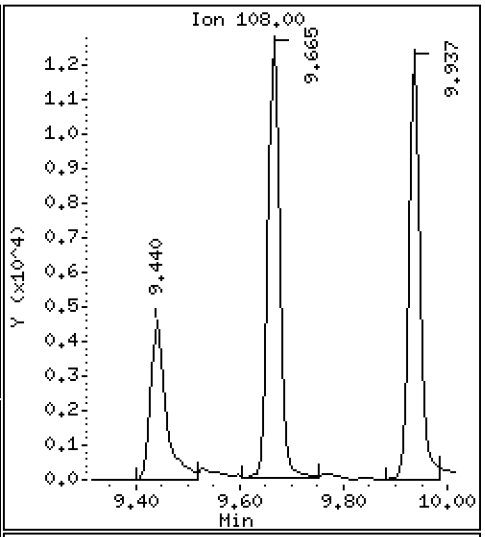
Column phase: ZB-5msi

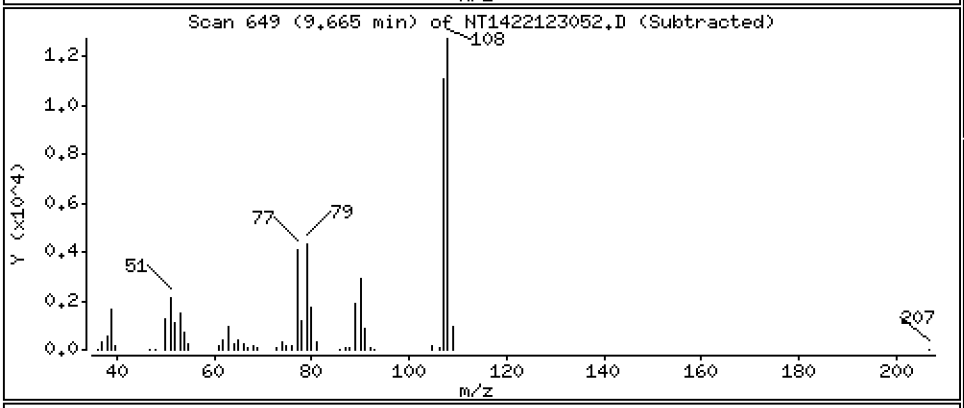
Column diameter: 0.25

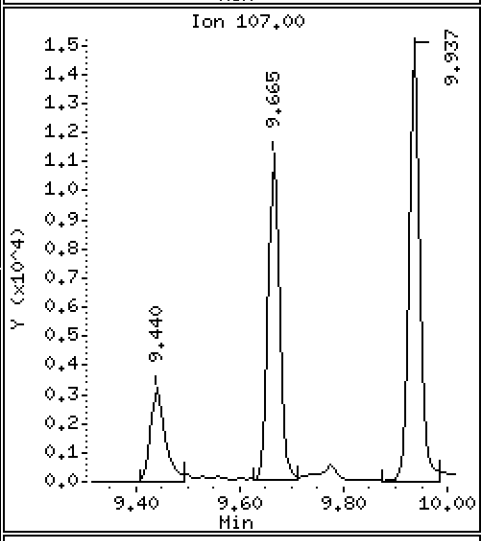
13 2-Methylphenol

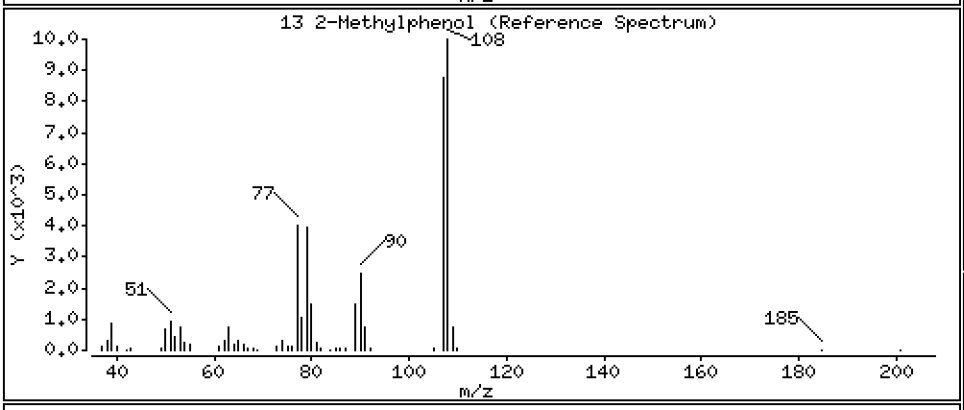
Concentration: 0.4833 ug/mL

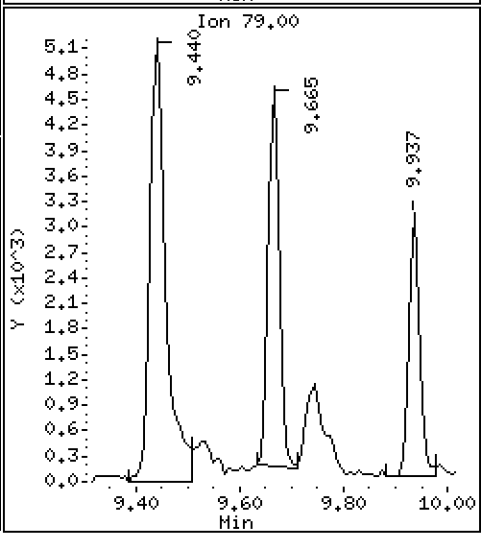


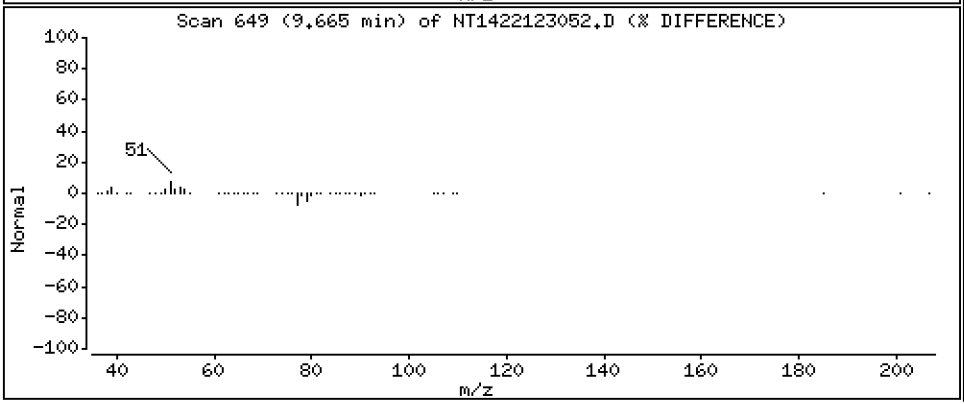












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

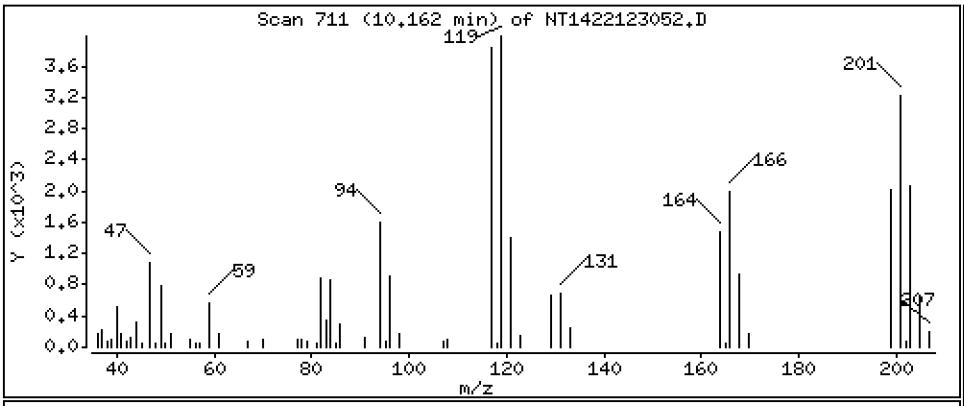
Operator: VTS

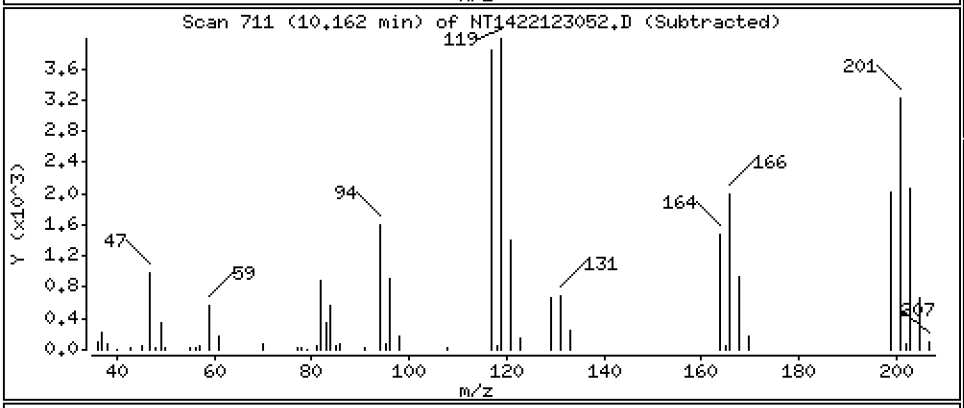
Column phase: ZB-5msi

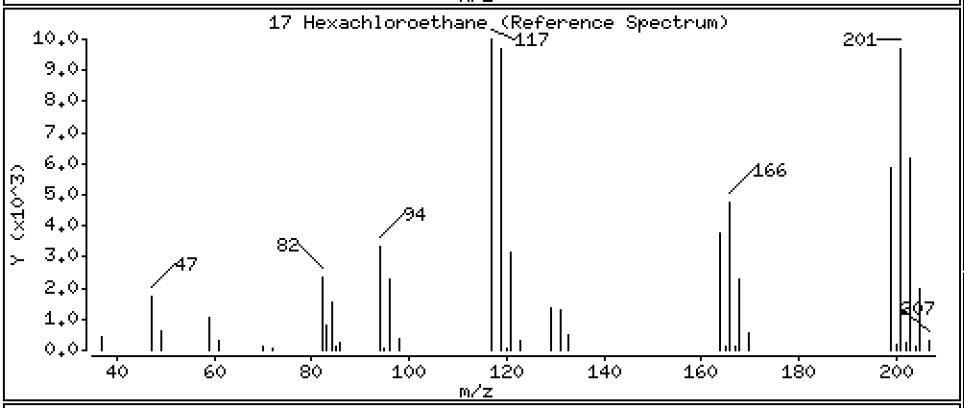
Column diameter: 0.25

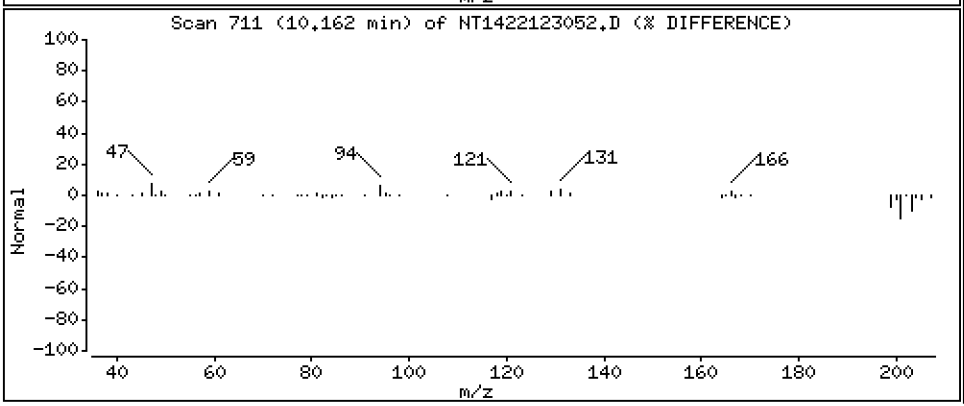
17 Hexachloroethane

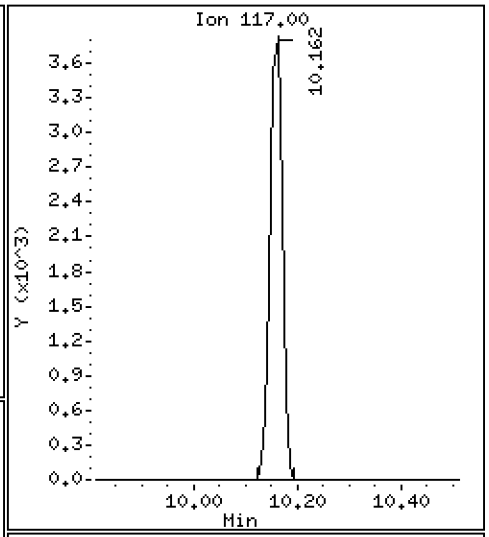
Concentration: 0.3728 ug/mL

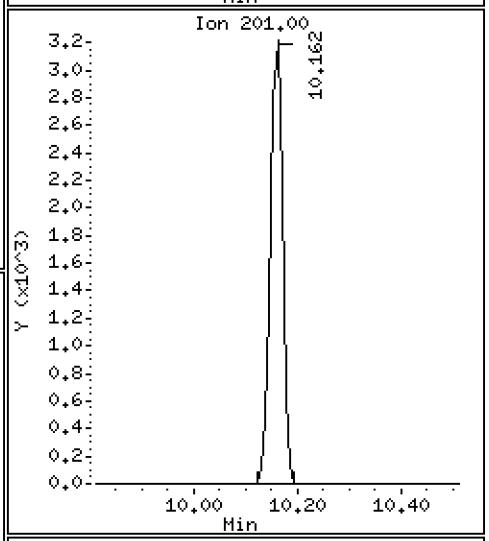


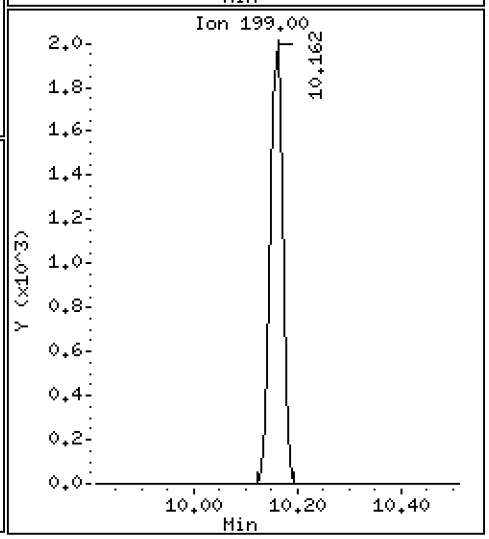












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

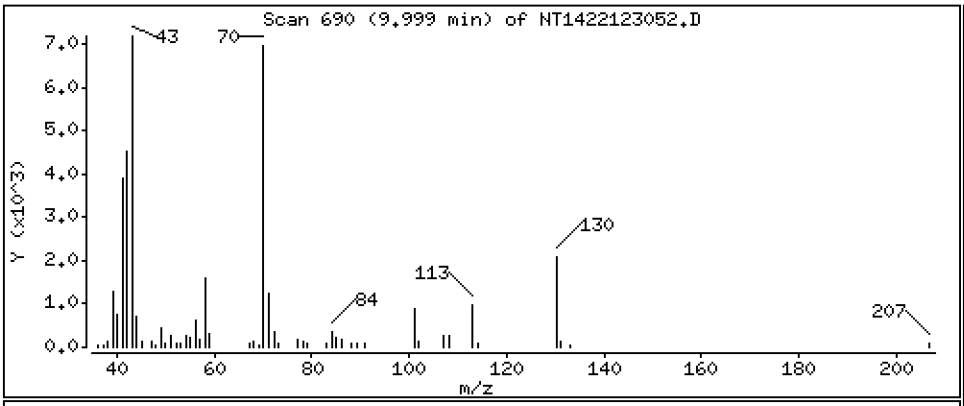
Operator: VTS

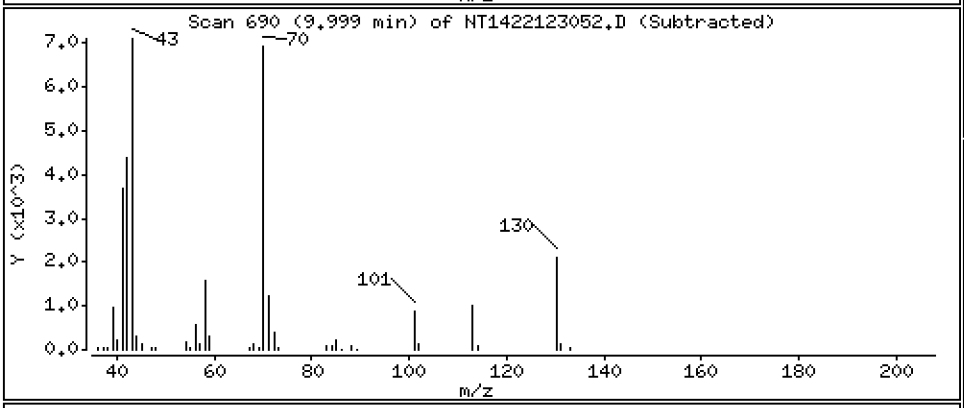
Column phase: ZB-5msi

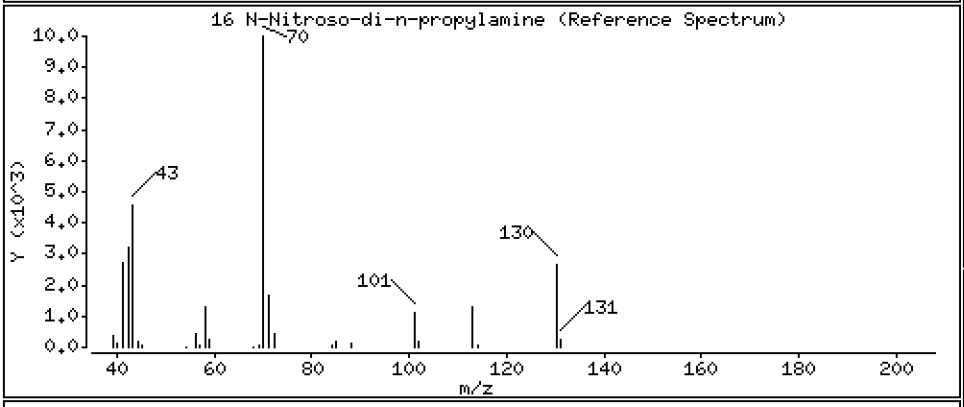
Column diameter: 0.25

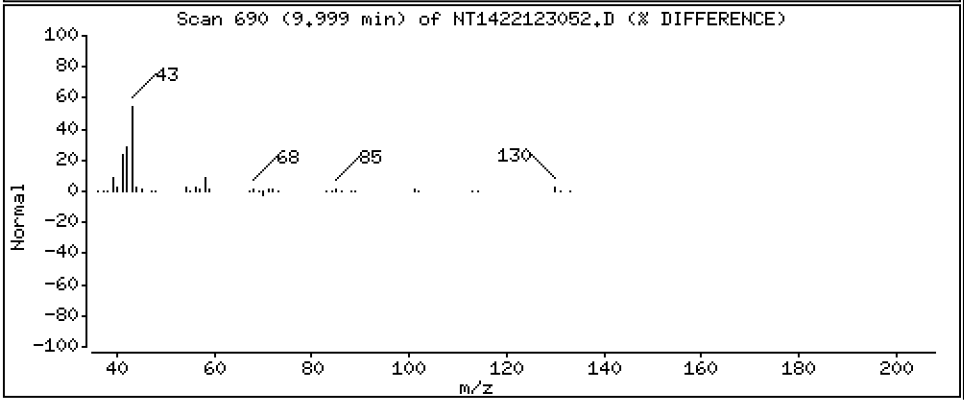
16 N-Nitroso-di-n-propylamine

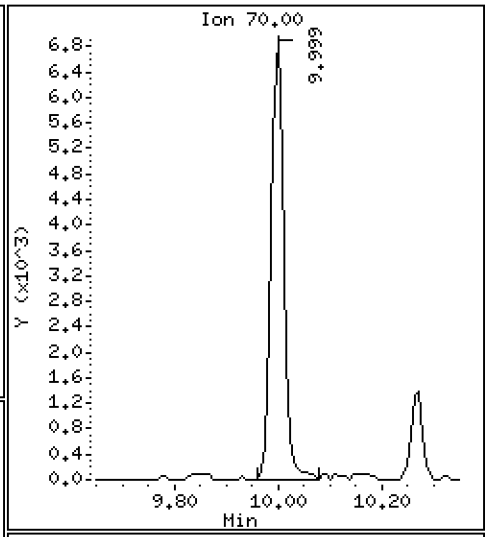
Concentration: 0.4654 ug/mL

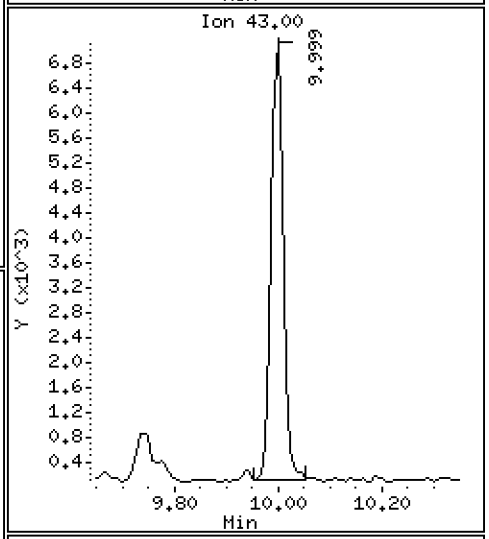


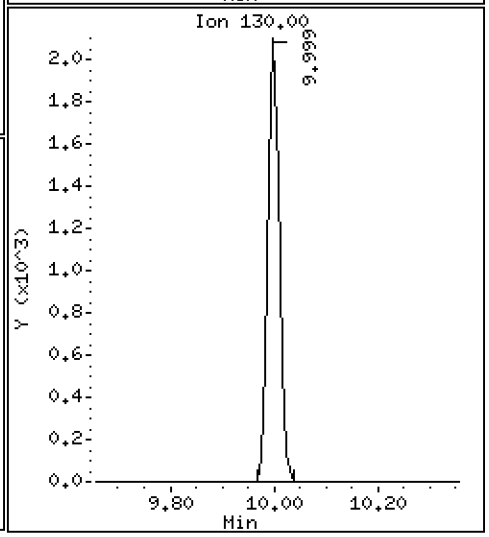












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

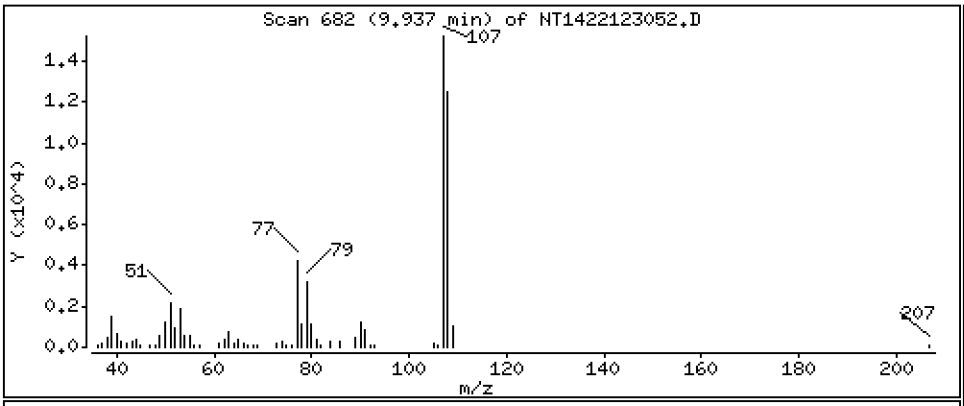
Operator: VTS

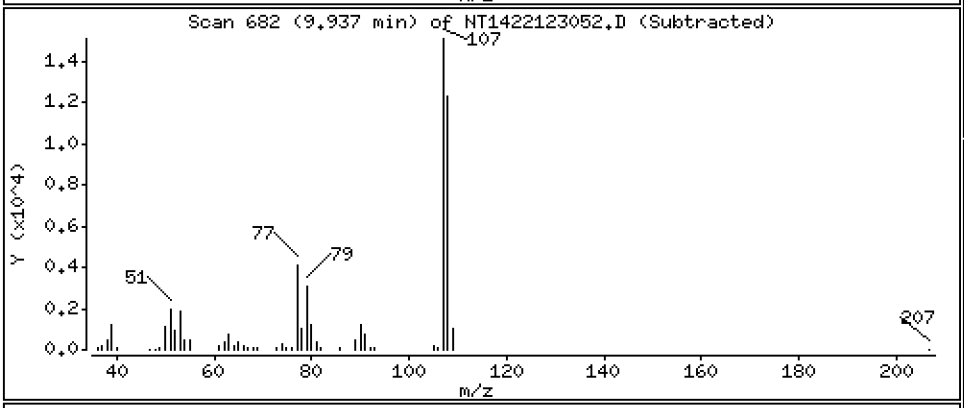
Column phase: ZB-5msi

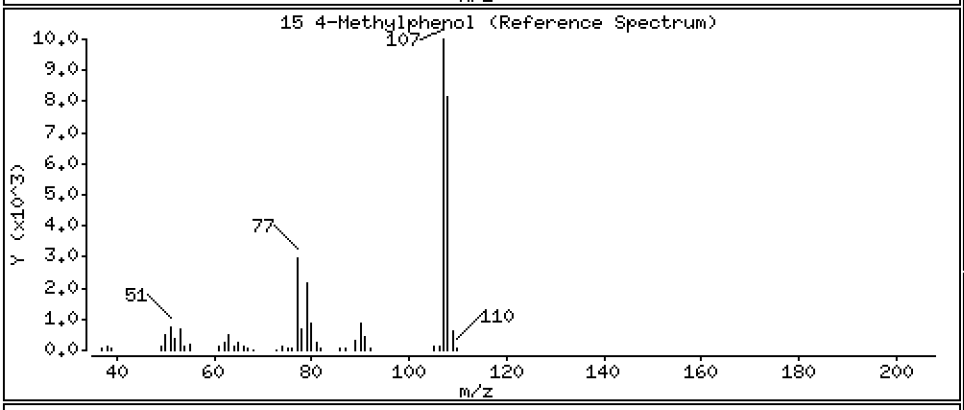
Column diameter: 0.25

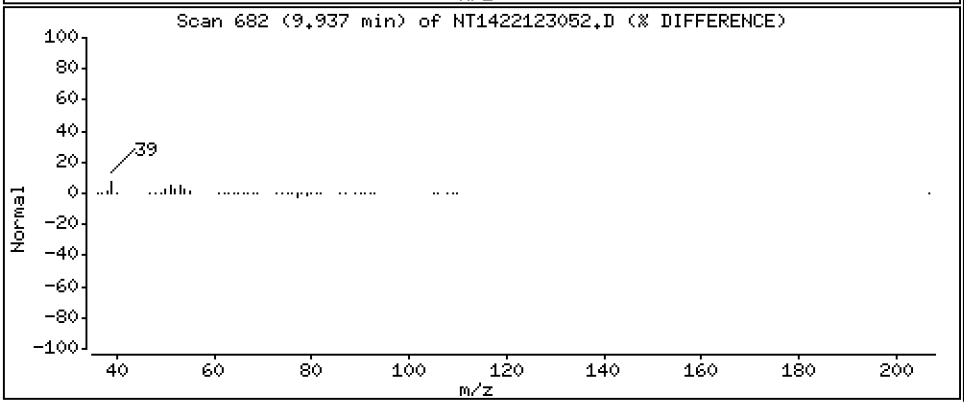
15 4-Methylphenol

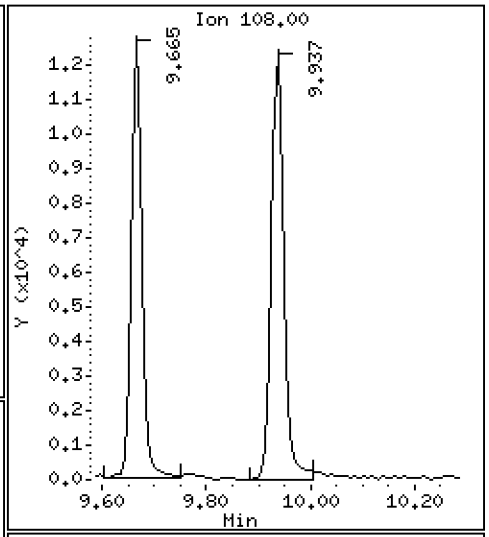
Concentration: 0.4747 ug/mL

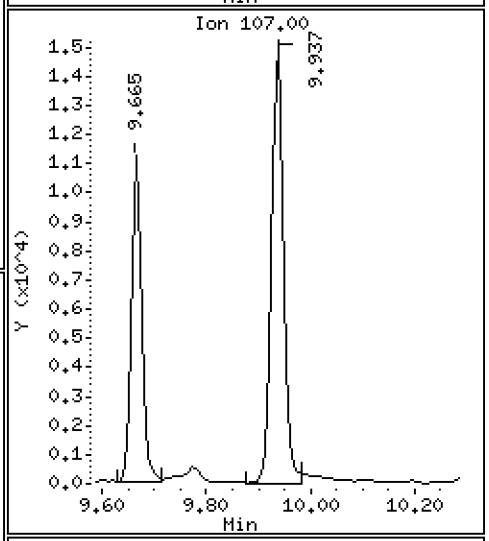


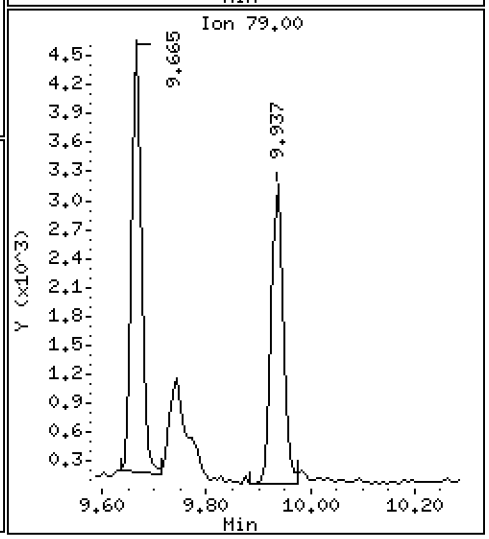












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

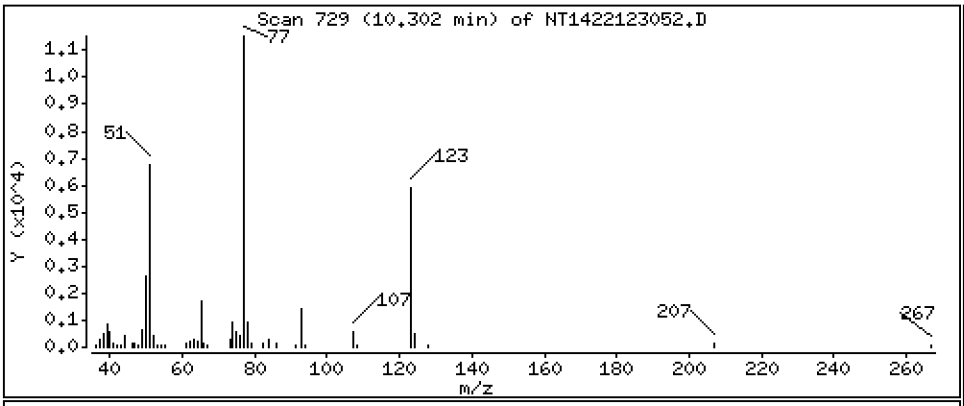
Operator: VTS

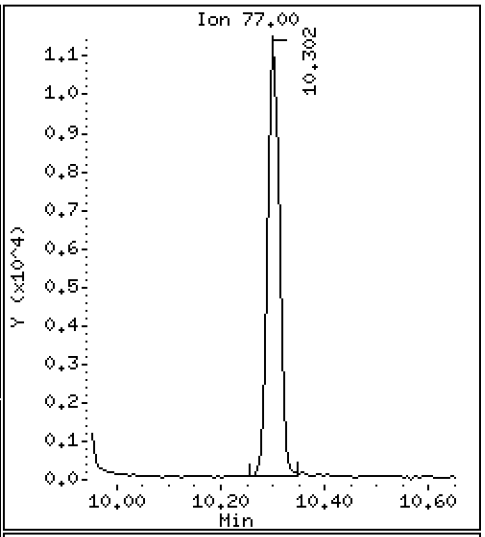
Column phase: ZB-5msi

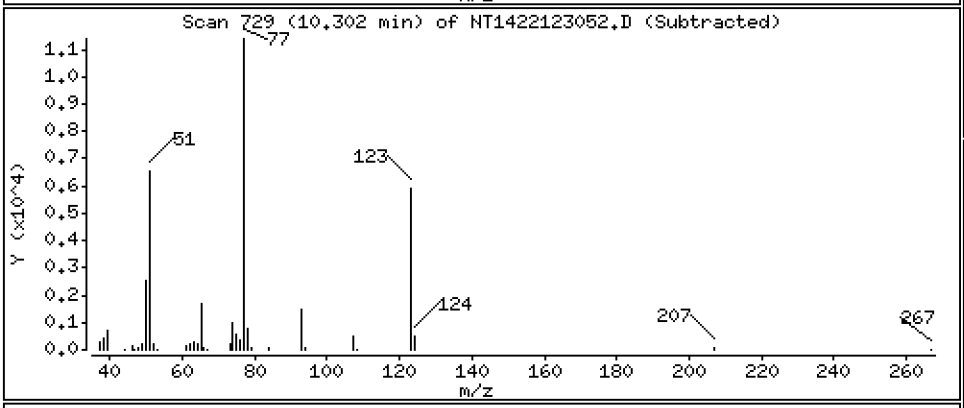
Column diameter: 0.25

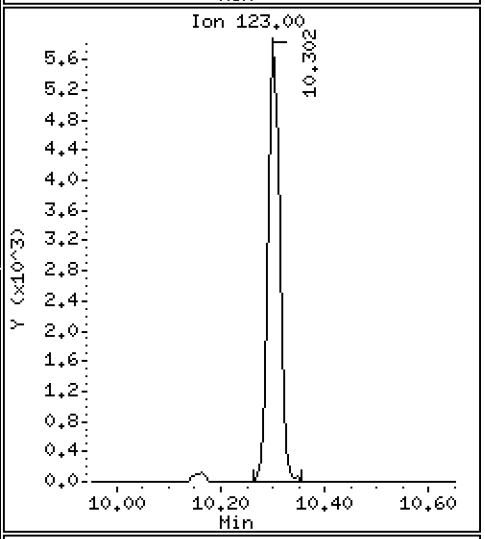
19 Nitrobenzene

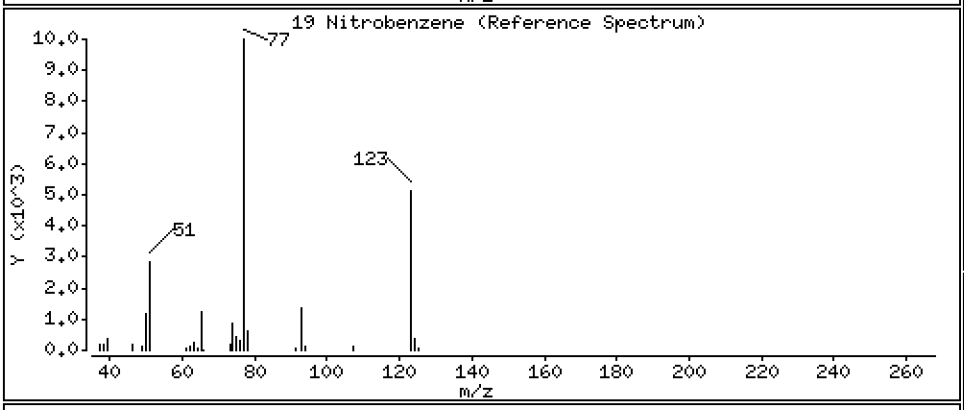
Concentration: 0.4641 ug/mL

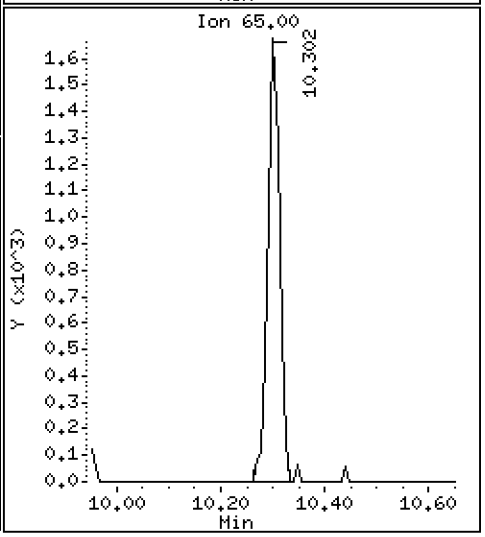


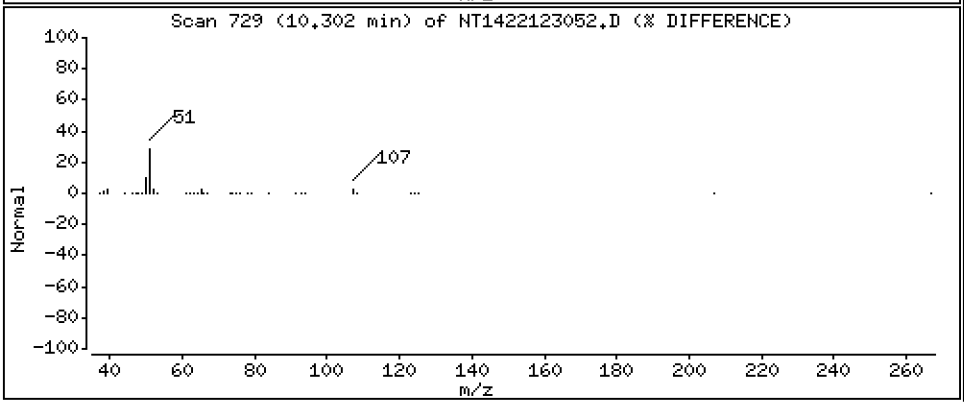












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

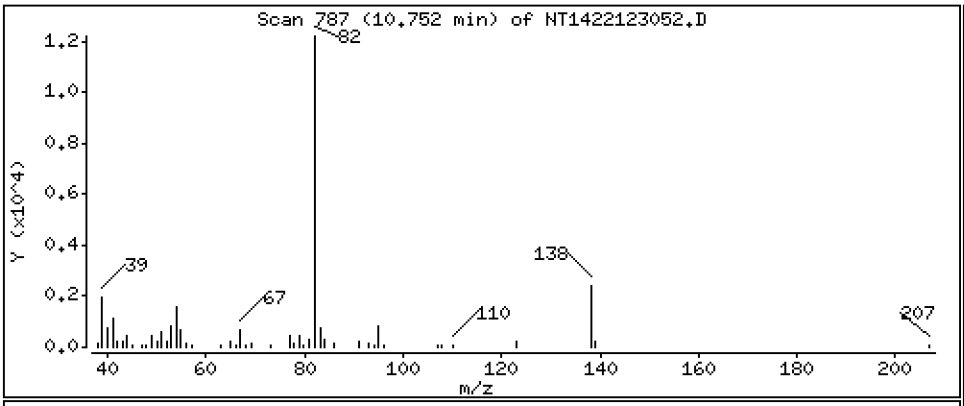
Operator: VTS

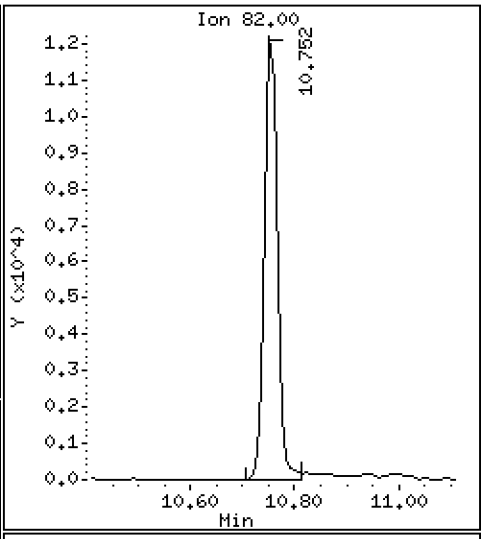
Column phase: ZB-5msi

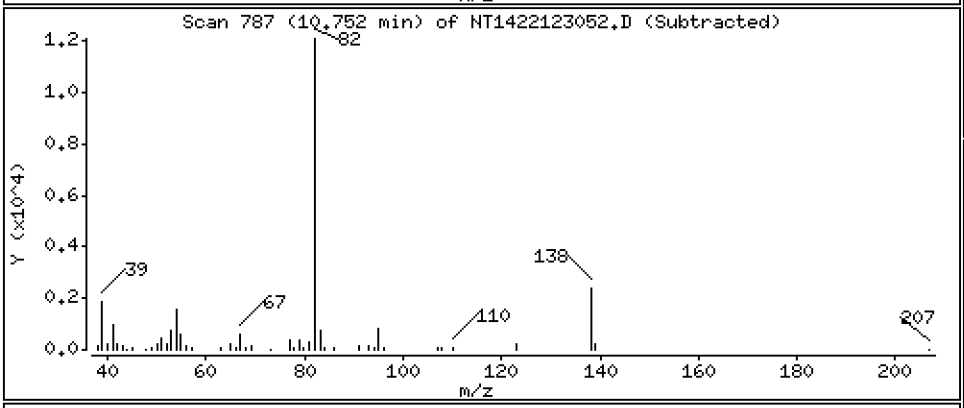
Column diameter: 0.25

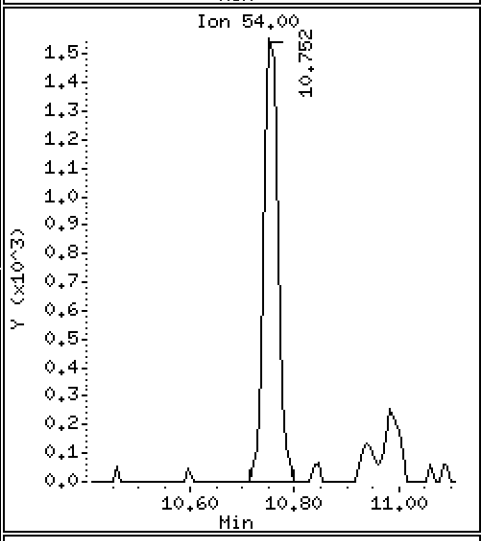
20 Isophorone

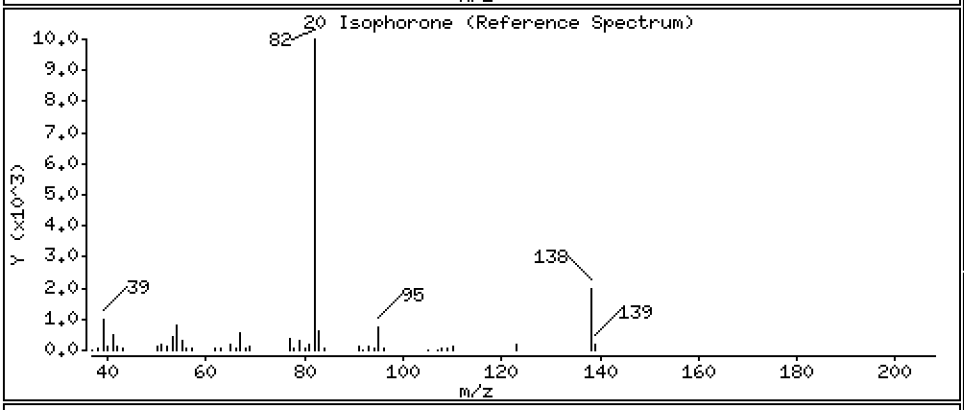
Concentration: 0.4317 ug/mL

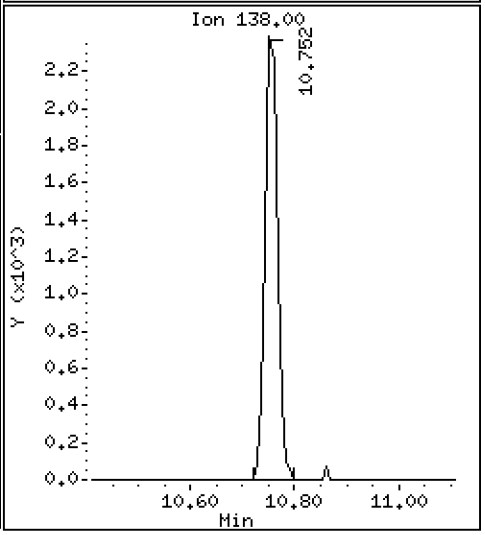


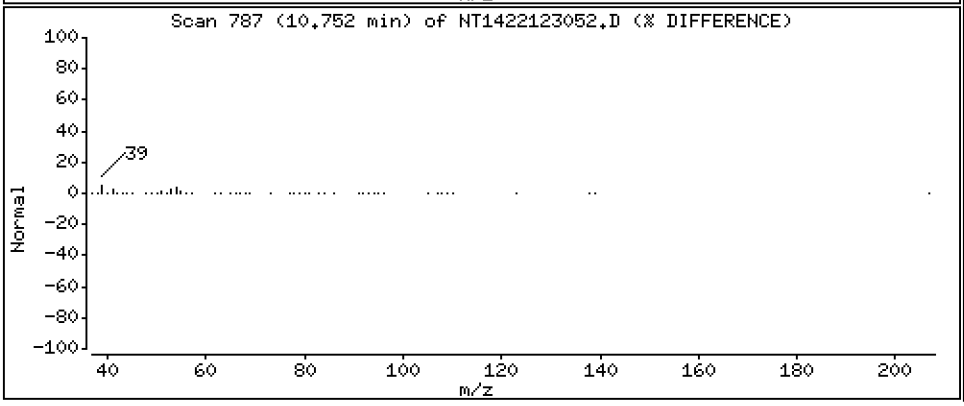












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

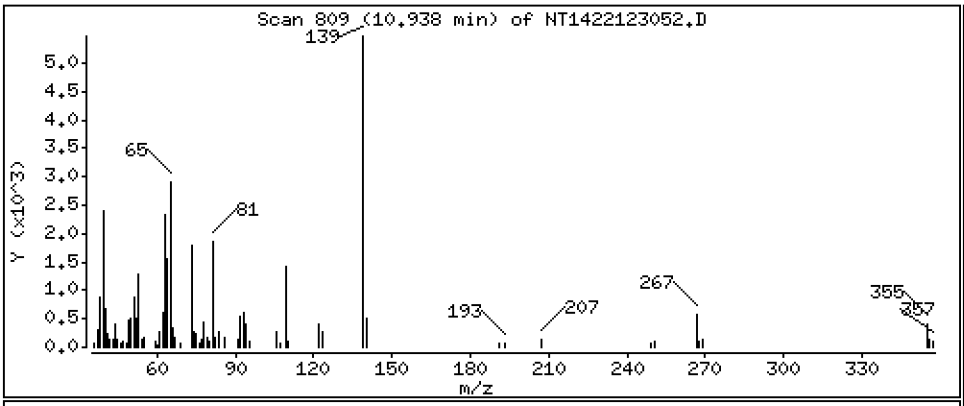
Operator: VTS

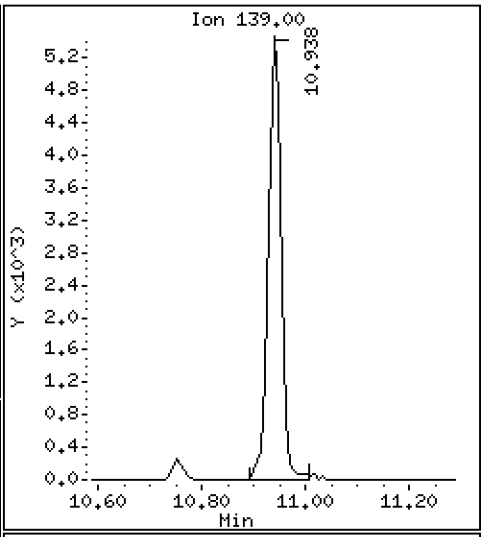
Column phase: ZB-5msi

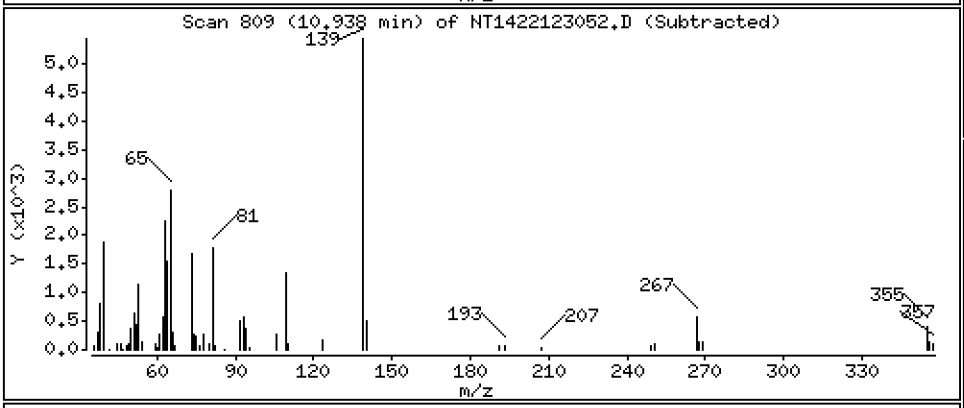
Column diameter: 0.25

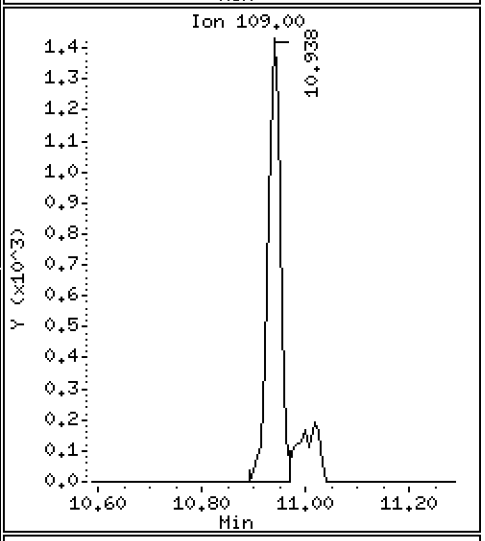
21 2-Nitrophenol

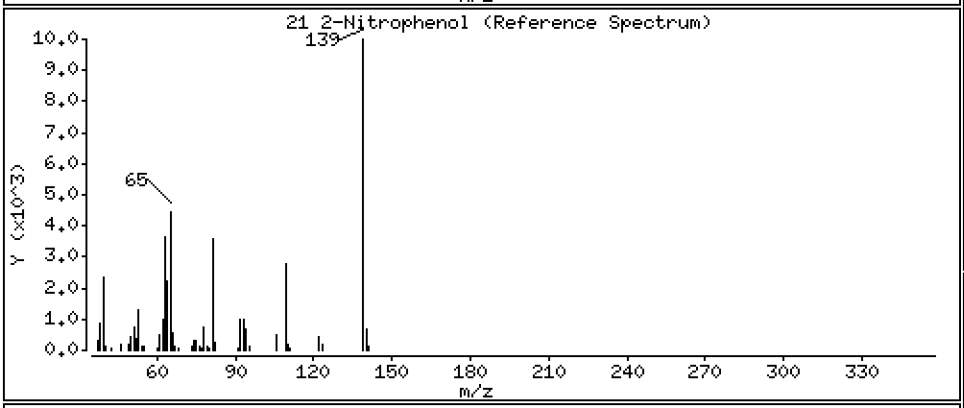
Concentration: 0.4561 ug/mL

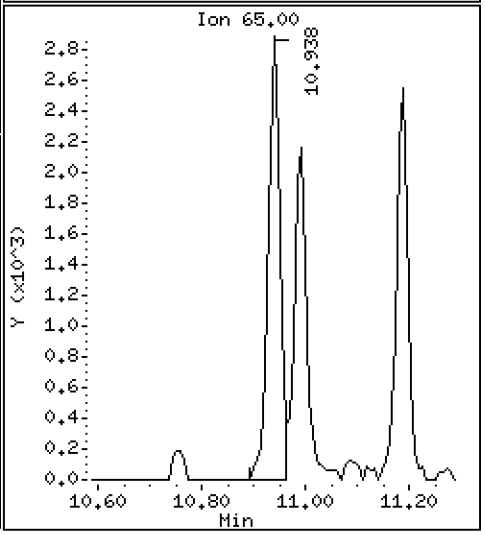


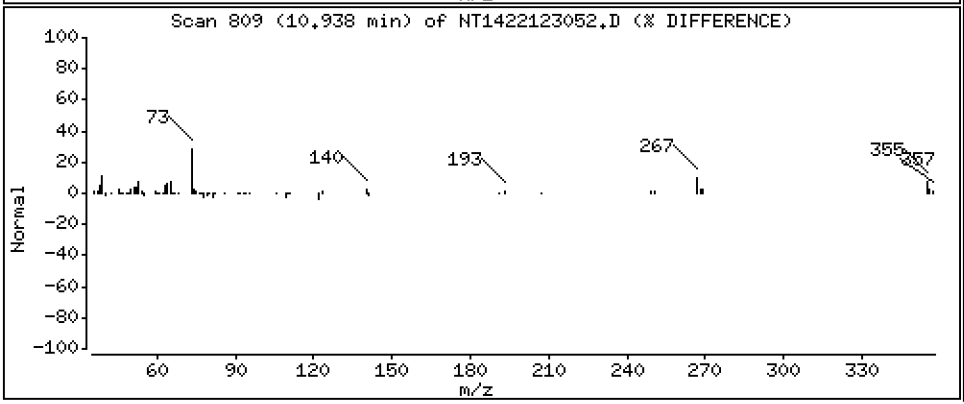












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

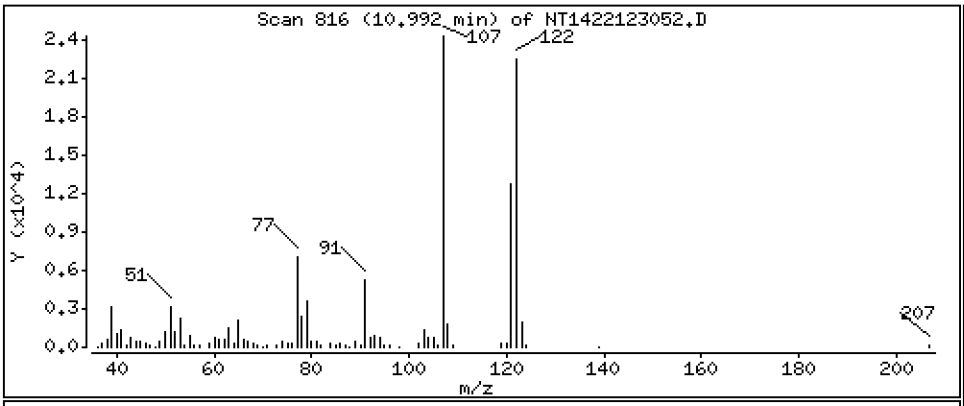
Operator: VTS

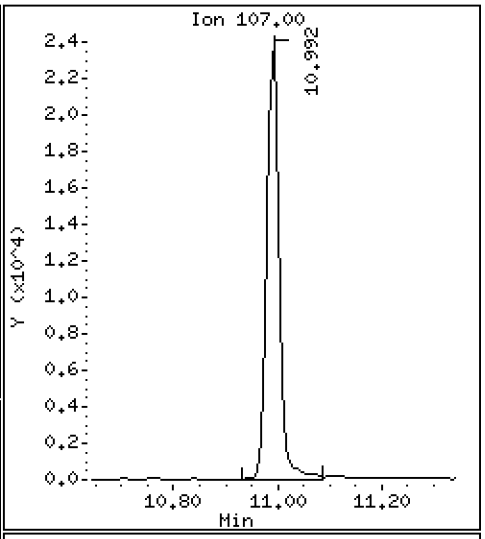
Column phase: ZB-5msi

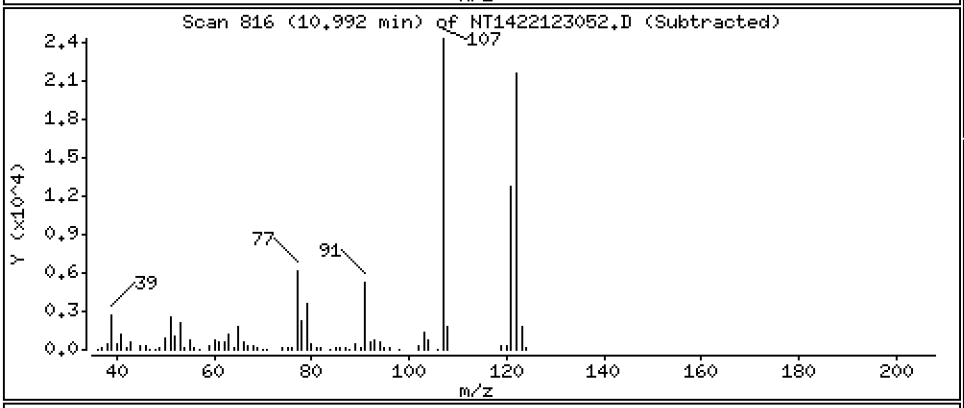
Column diameter: 0.25

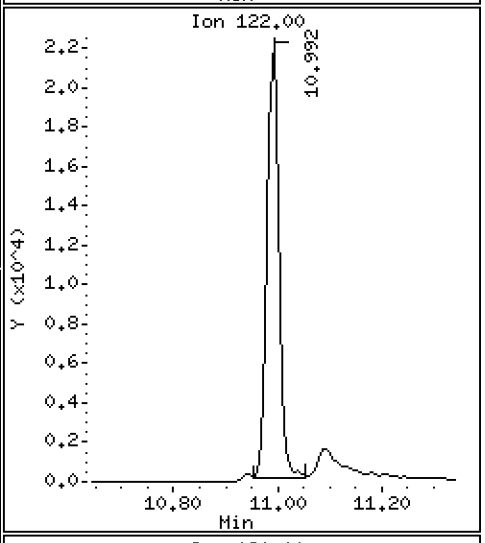
22 2,4-Dimethylphenol

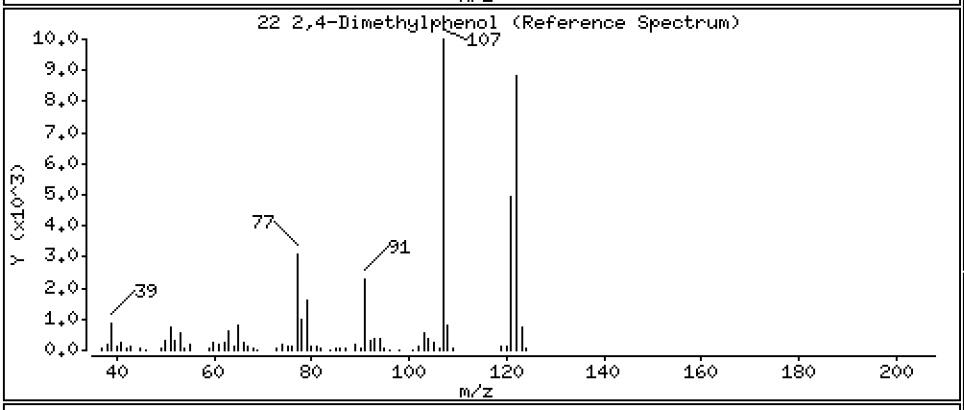
Concentration: 0.9882 ug/mL

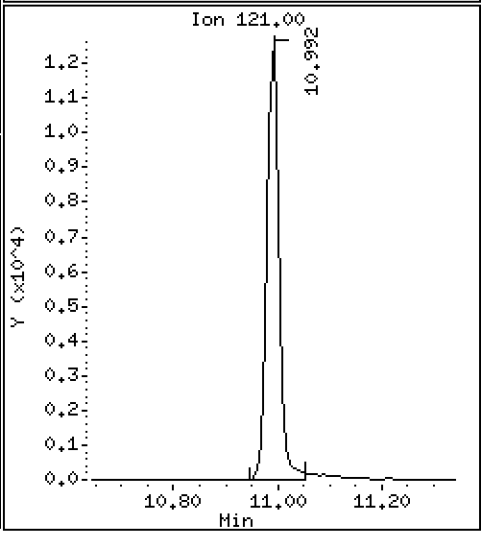


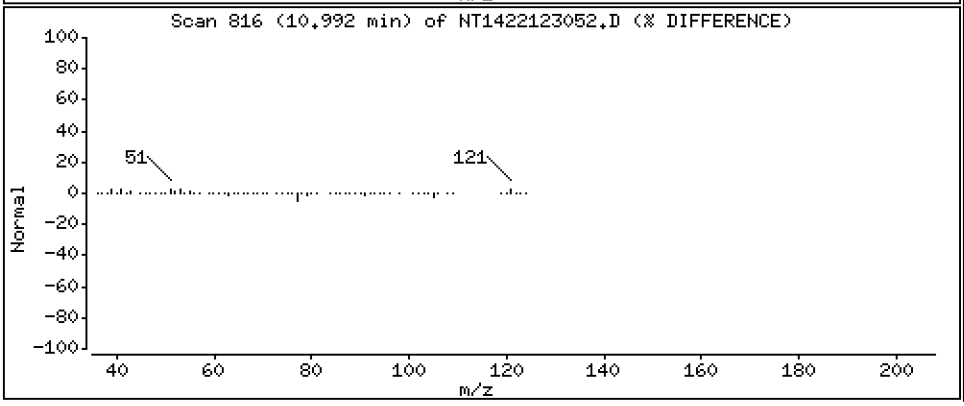












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

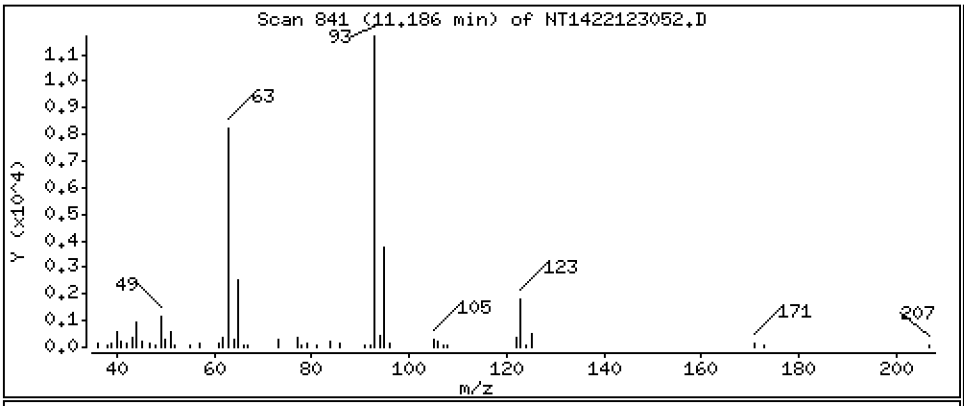
Operator: VTS

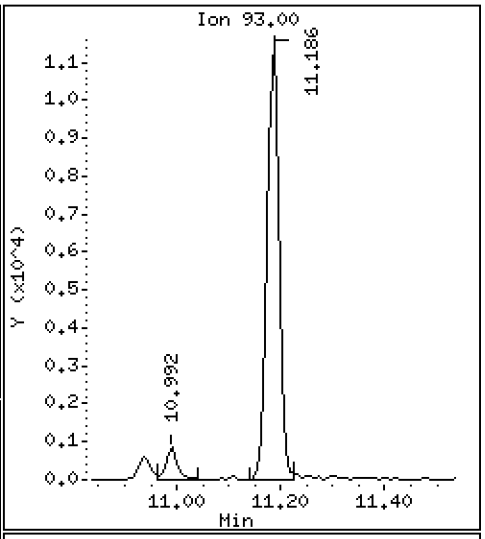
Column phase: ZB-5msi

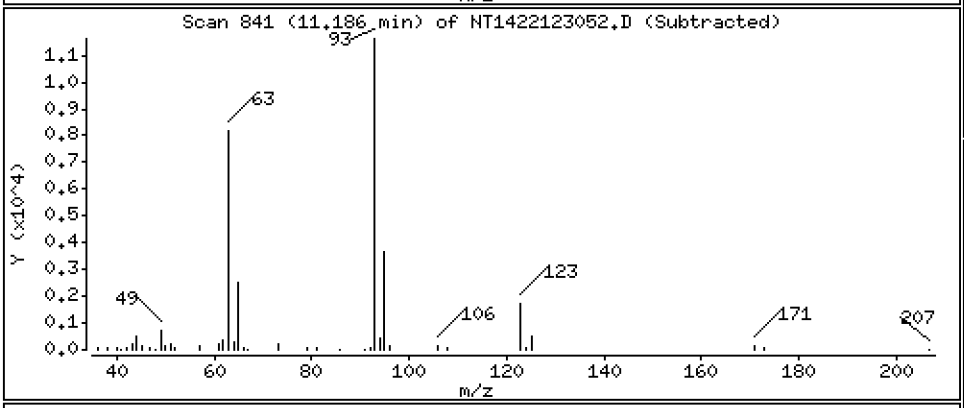
Column diameter: 0.25

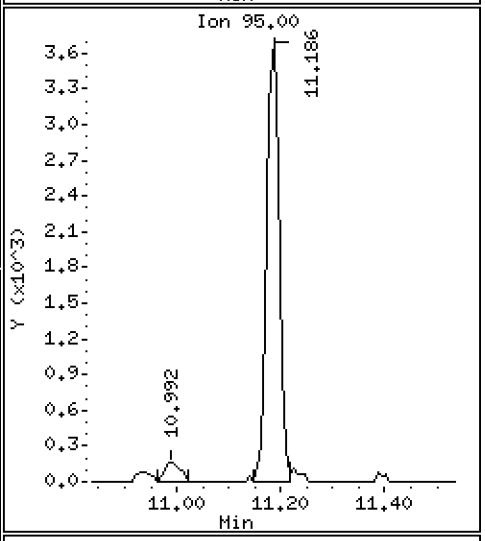
23 Bis(2-Chloroethoxy)methane

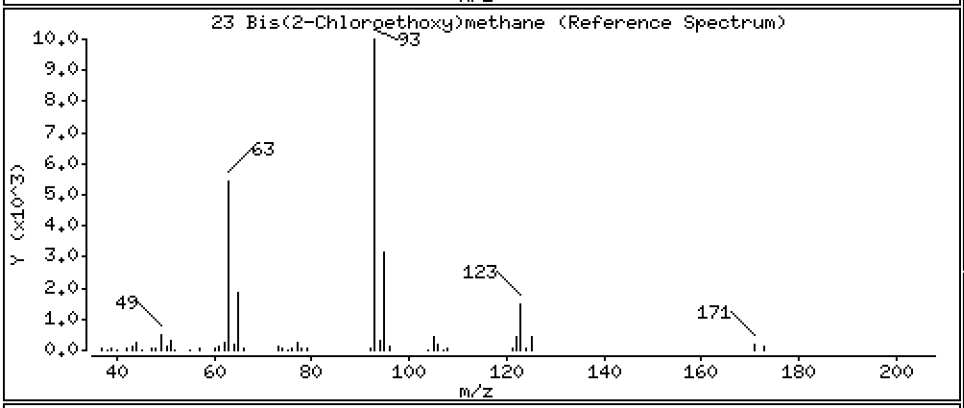
Concentration: 0.4840 ug/mL

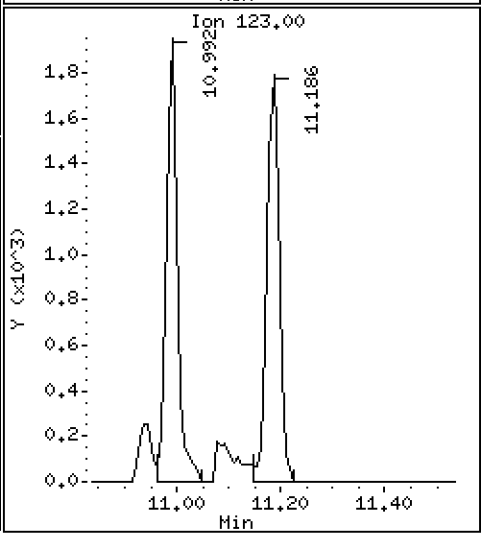


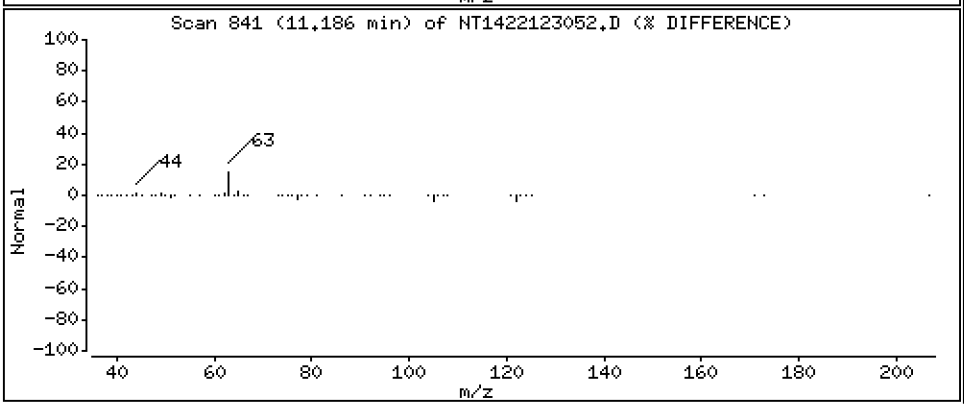












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

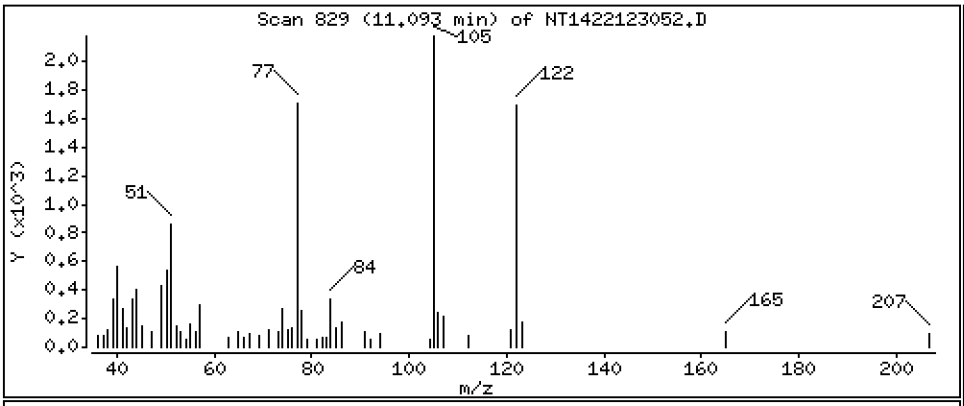
Operator: VTS

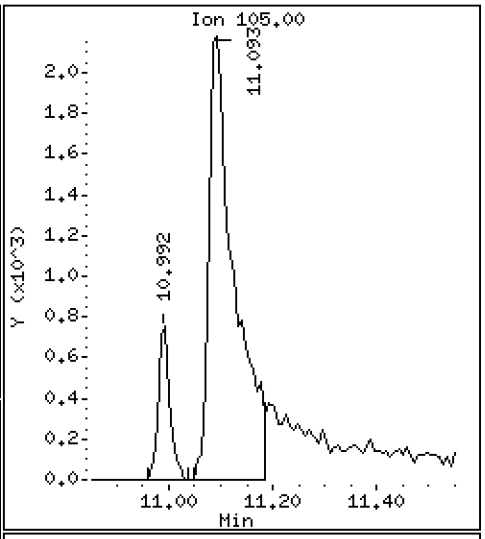
Column phase: ZB-5msi

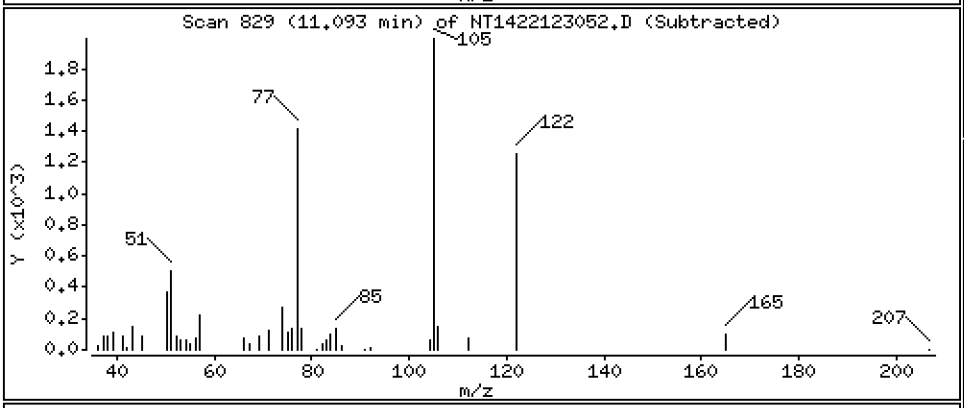
Column diameter: 0.25

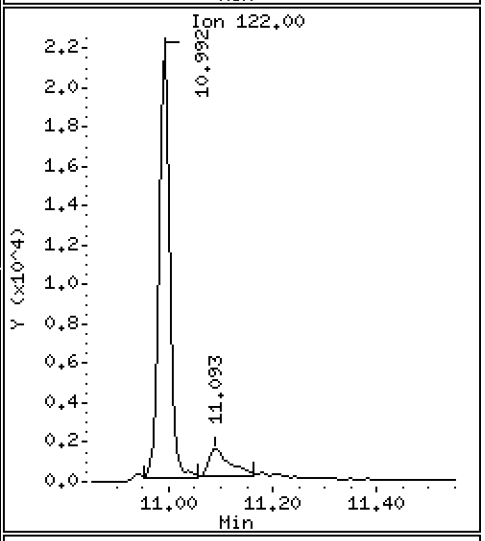
24 Benzoic acid

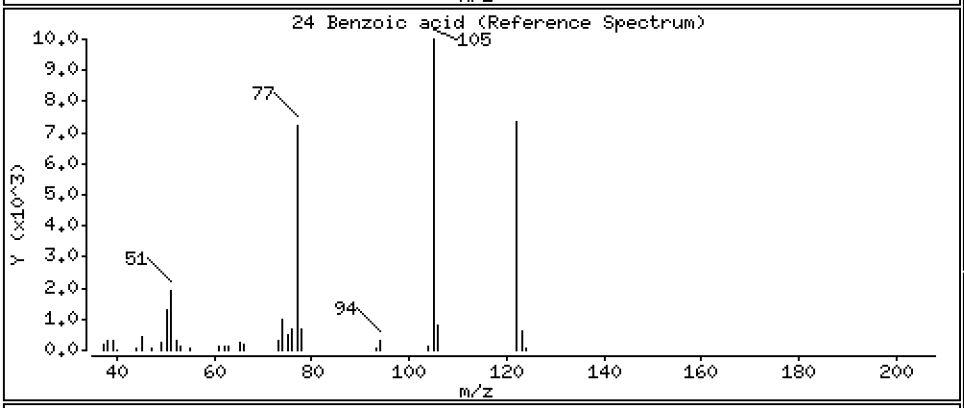
Concentration: 0.3306 ug/mL

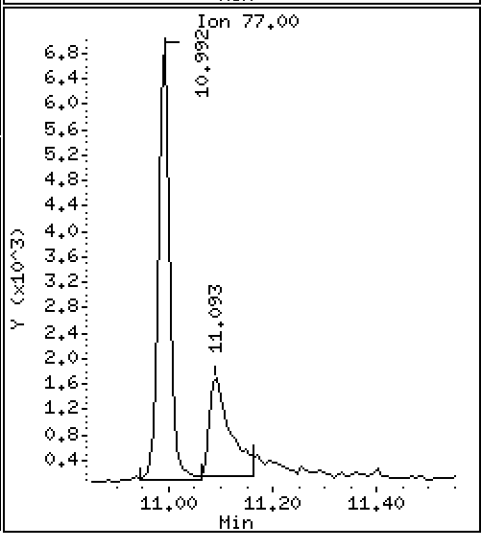


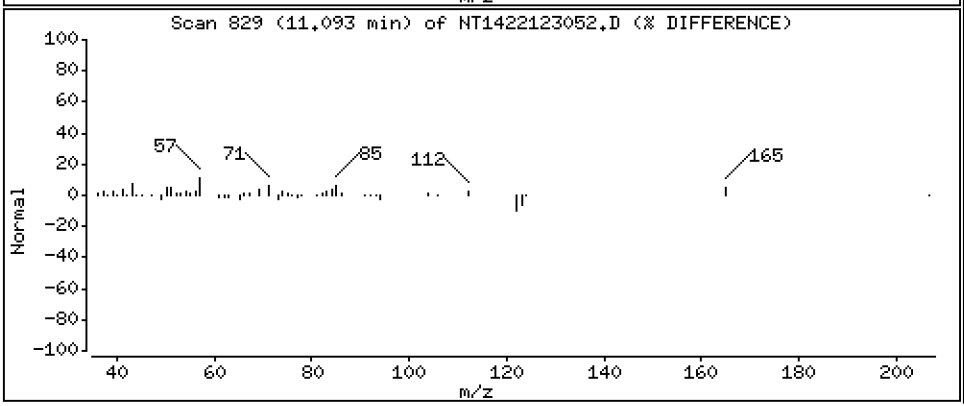












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

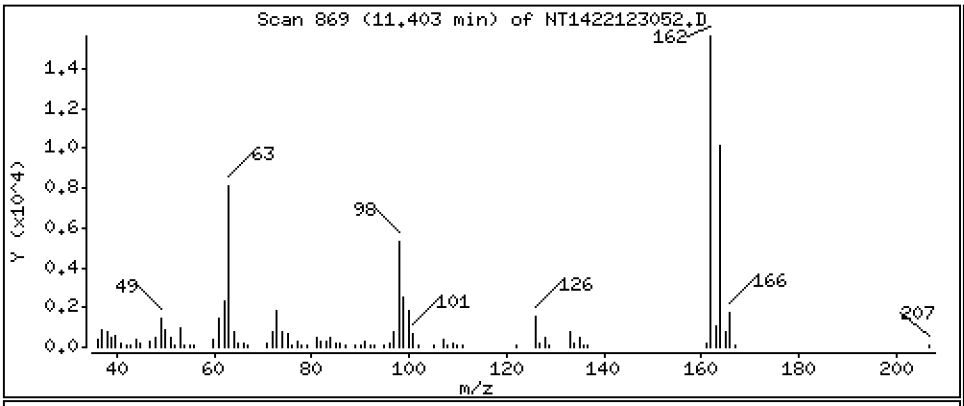
Operator: VTS

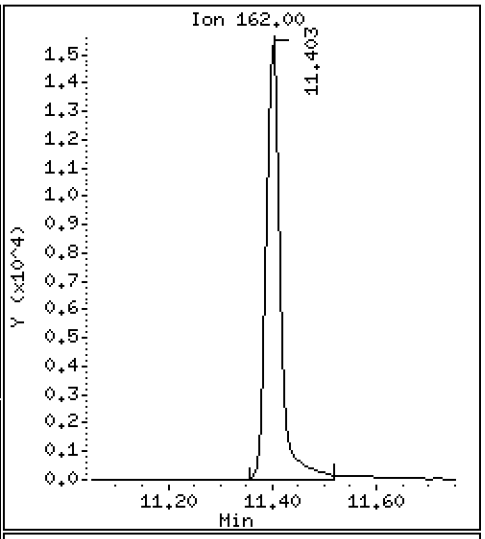
Column phase: ZB-5msi

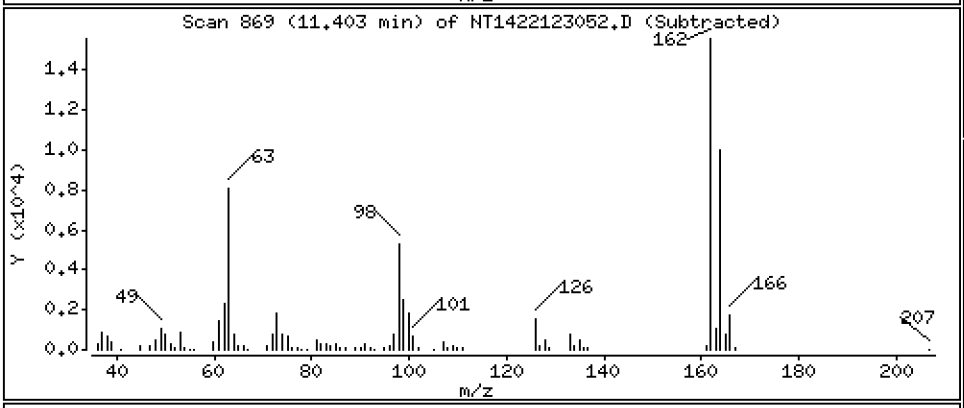
Column diameter: 0.25

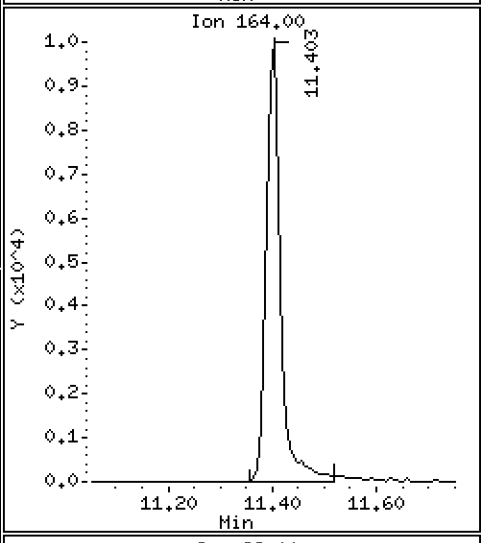
25 2,4-Dichlorophenol

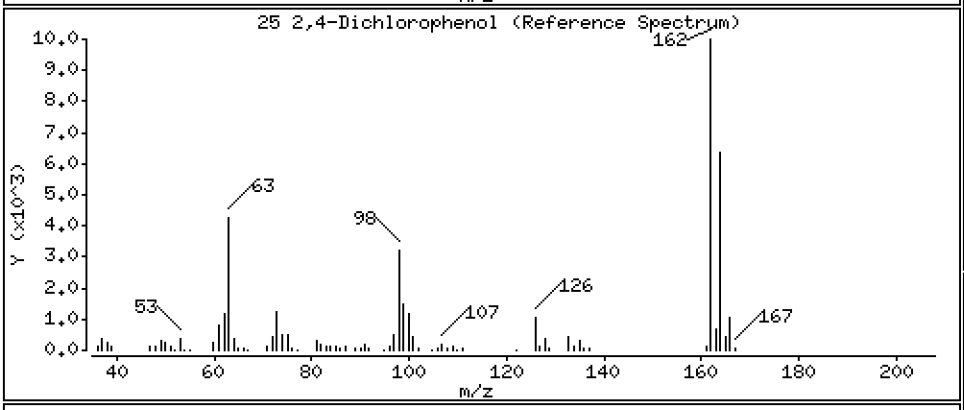
Concentration: 0.9922 ug/mL

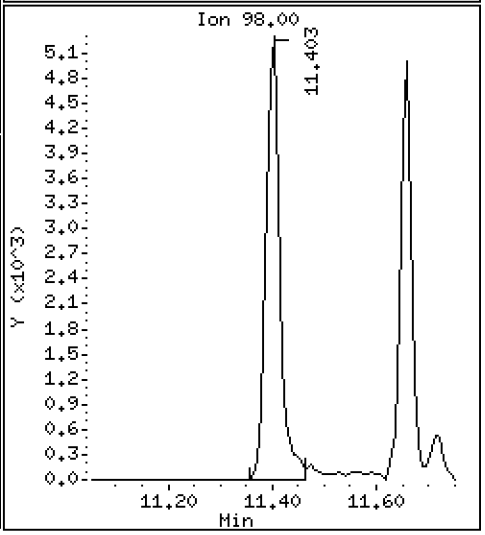


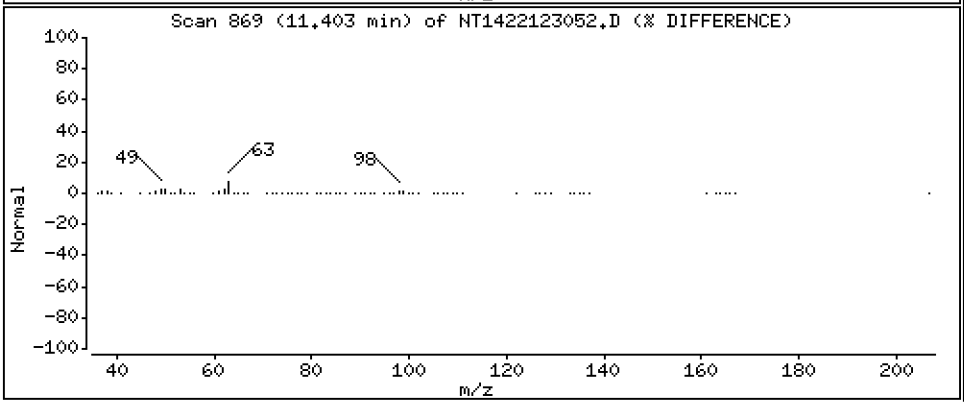












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

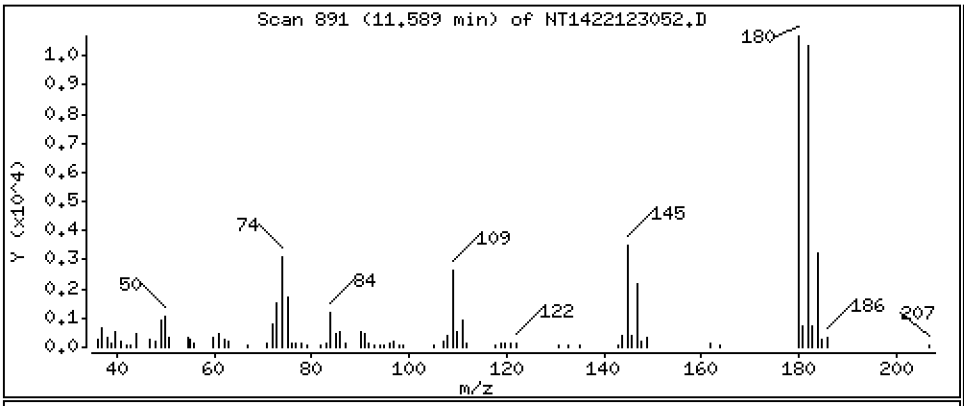
Operator: VTS

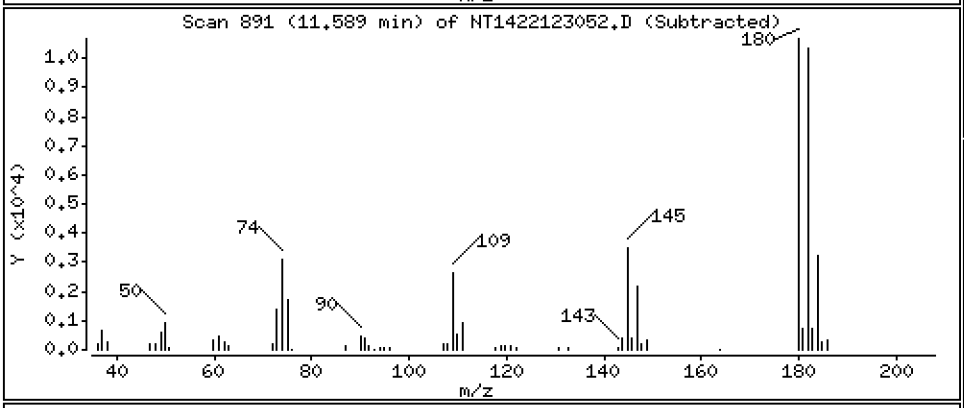
Column phase: ZB-5msi

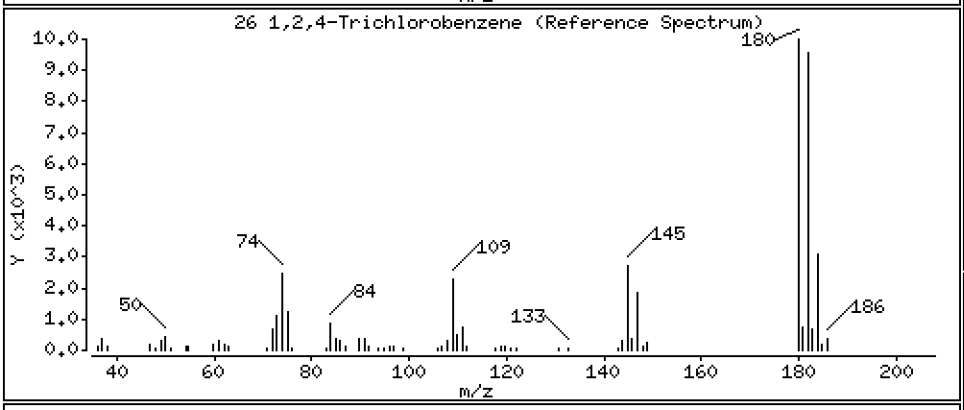
Column diameter: 0.25

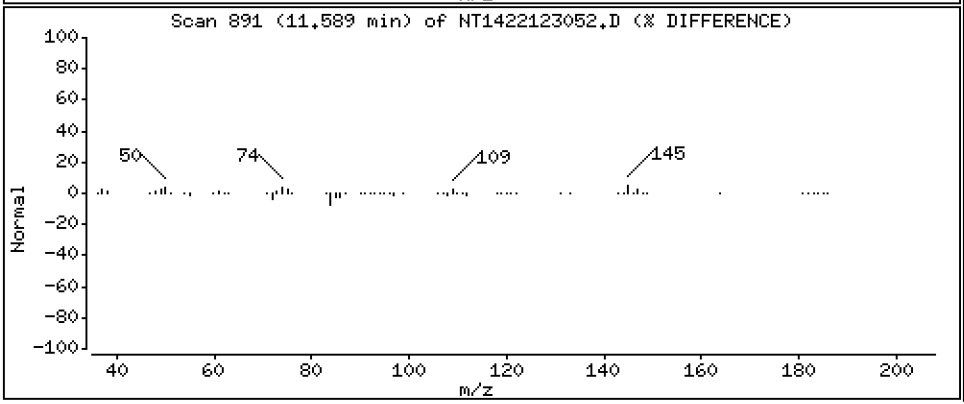
26 1,2,4-Trichlorobenzene

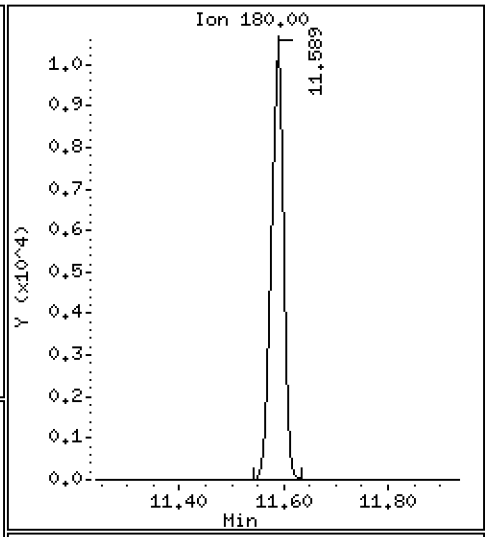
Concentration: 0.4816 ug/mL

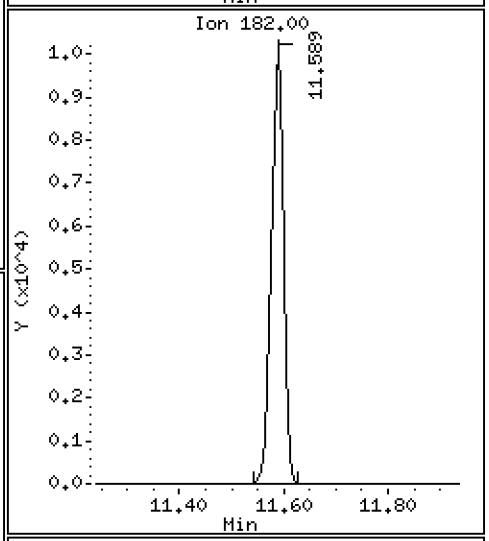


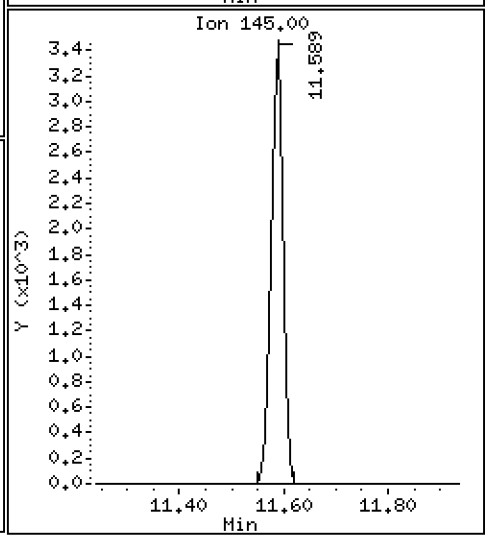












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

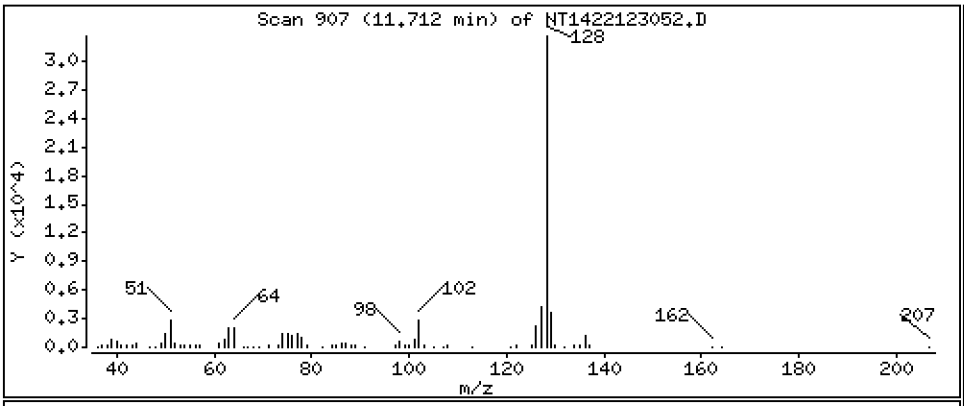
Operator: VTS

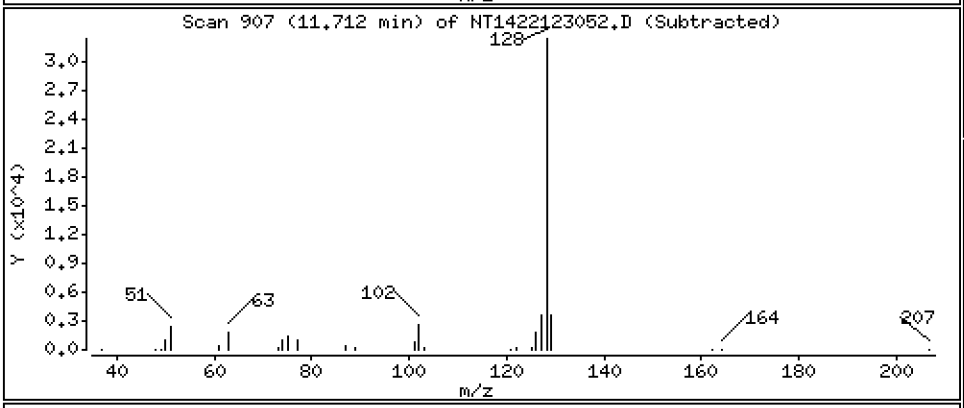
Column phase: ZB-5msi

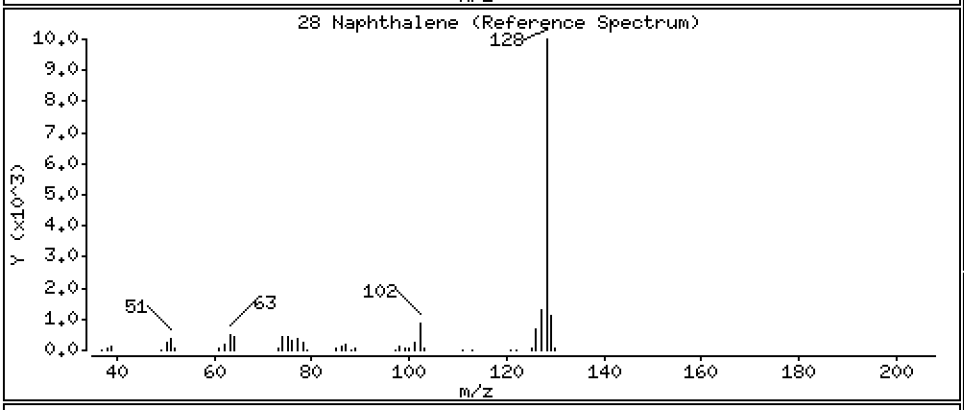
Column diameter: 0.25

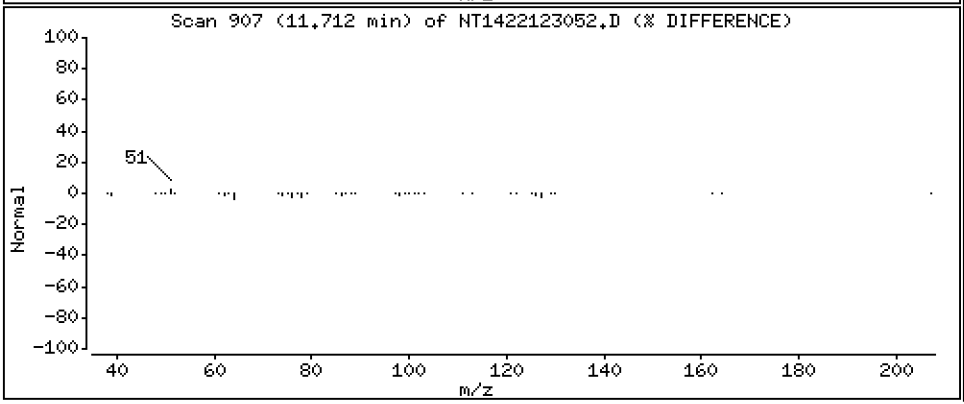
28 Naphthalene

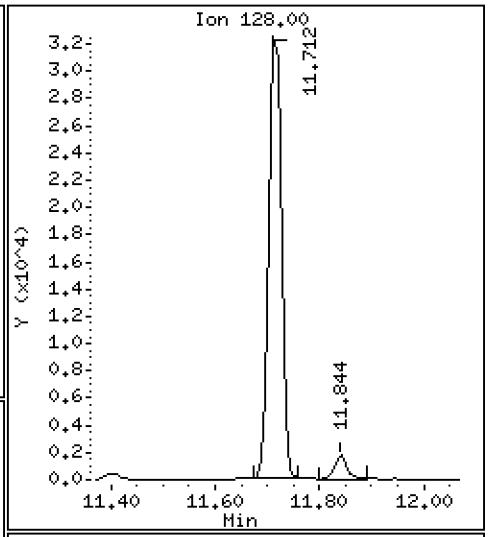
Concentration: 0.4844 ug/mL

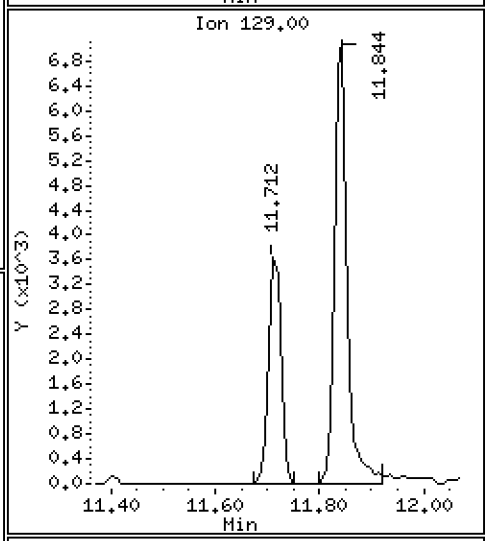


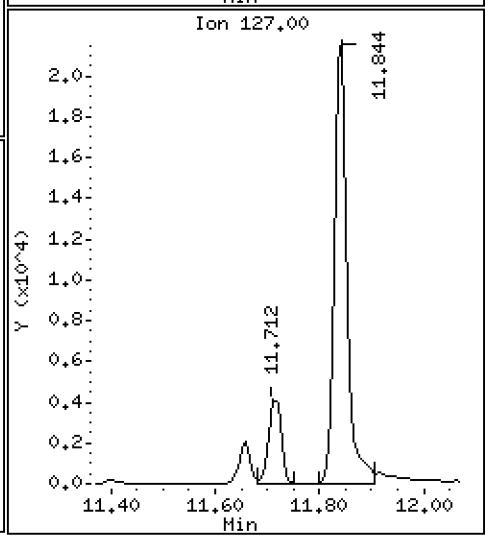












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

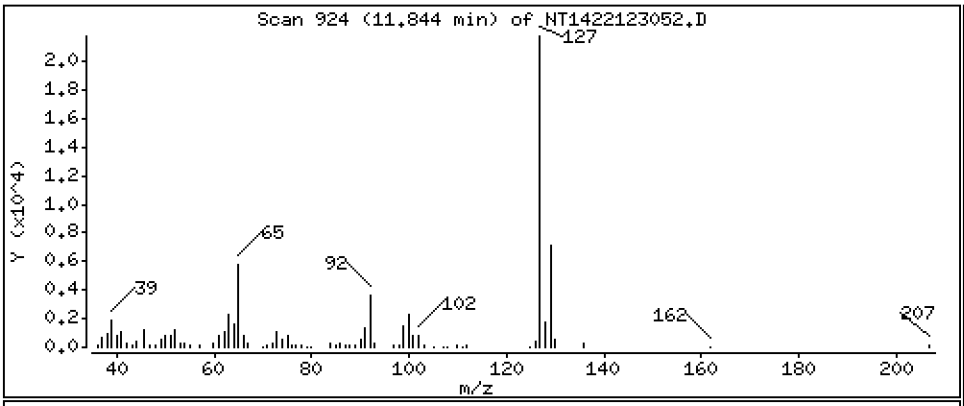
Operator: VTS

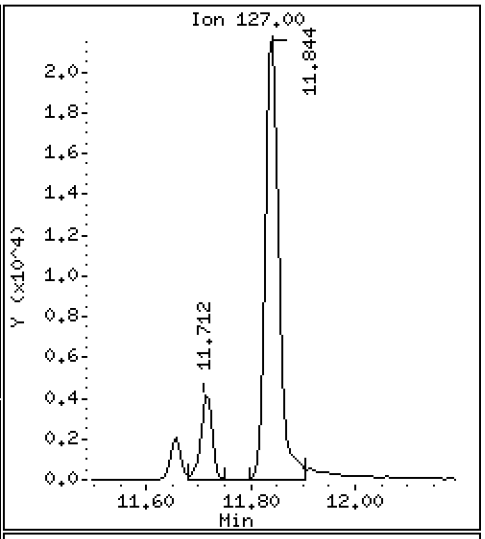
Column phase: ZB-5msi

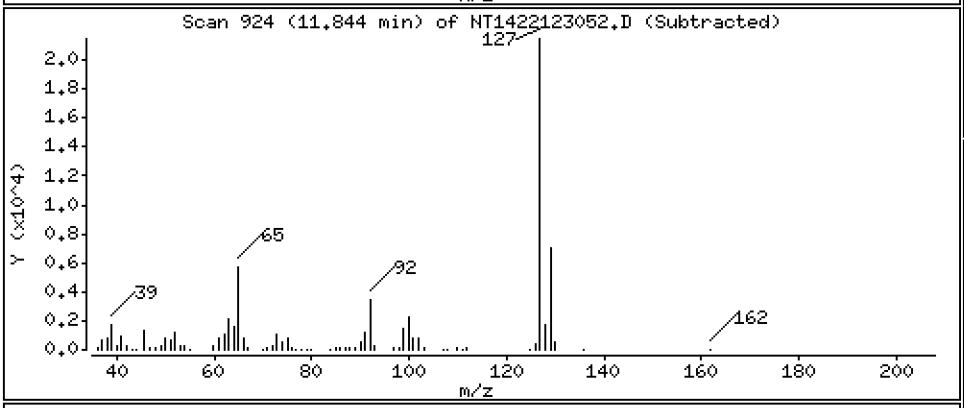
Column diameter: 0.25

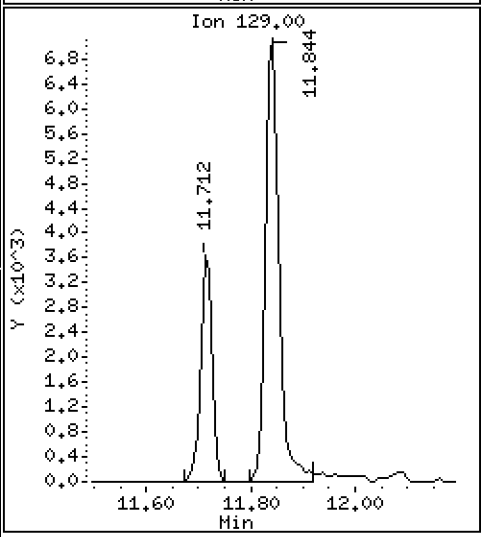
29 4-Chloroaniline

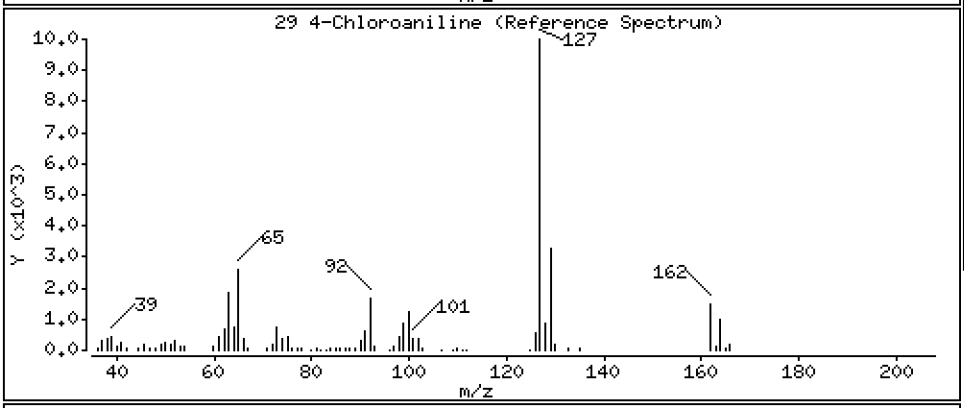
Concentration: 0.8698 ug/mL

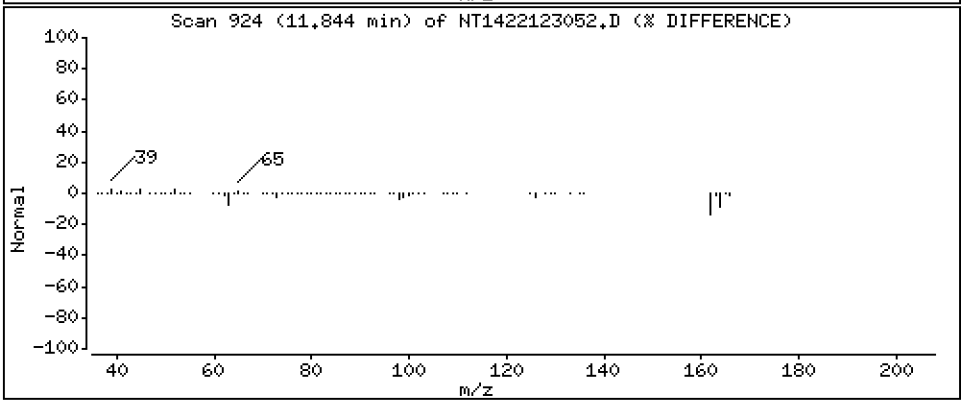












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

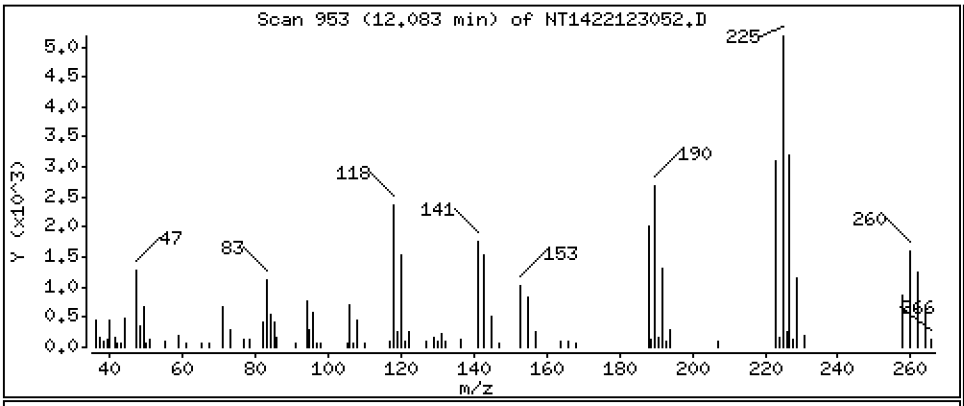
Operator: VTS

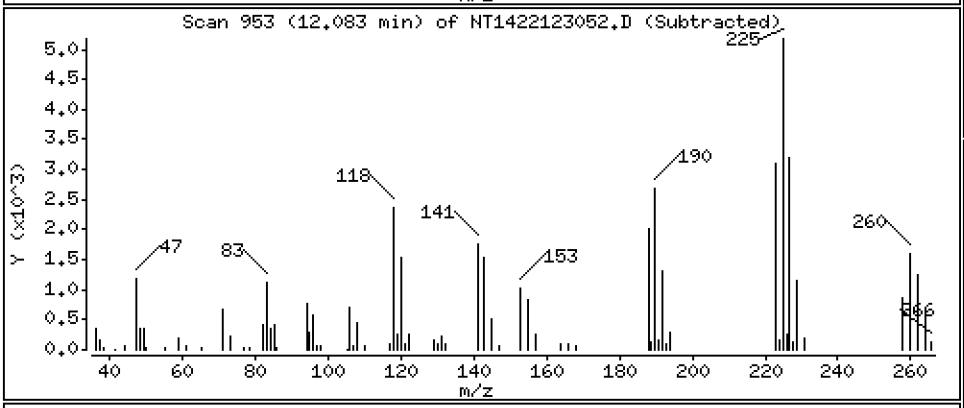
Column phase: ZB-5msi

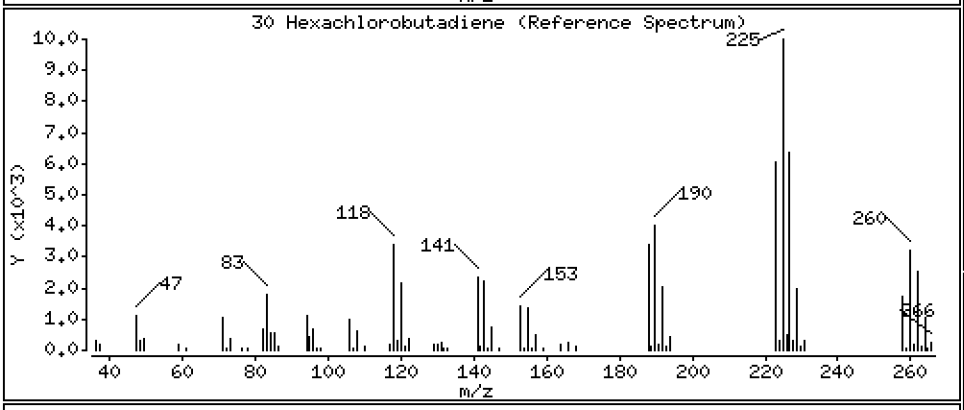
Column diameter: 0.25

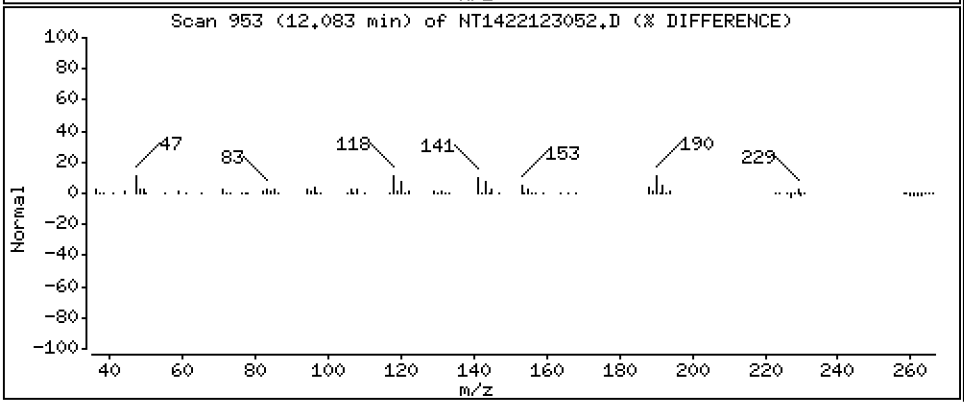
30 Hexachlorobutadiene

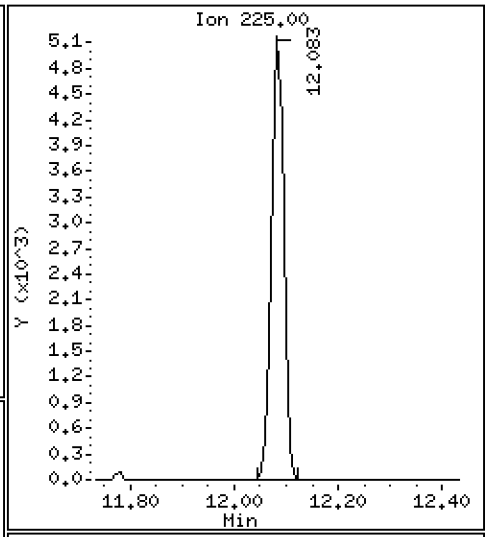
Concentration: 0.4710 ug/mL

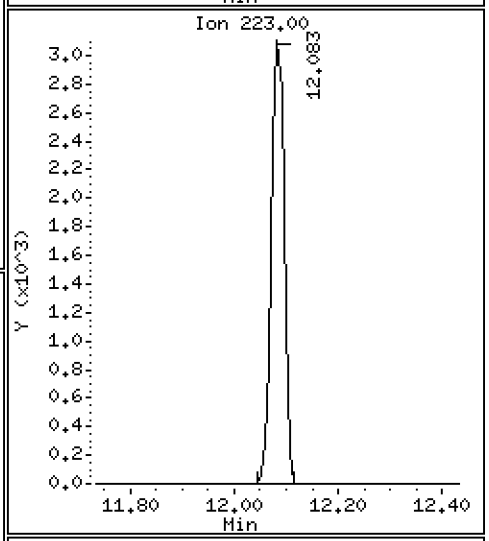


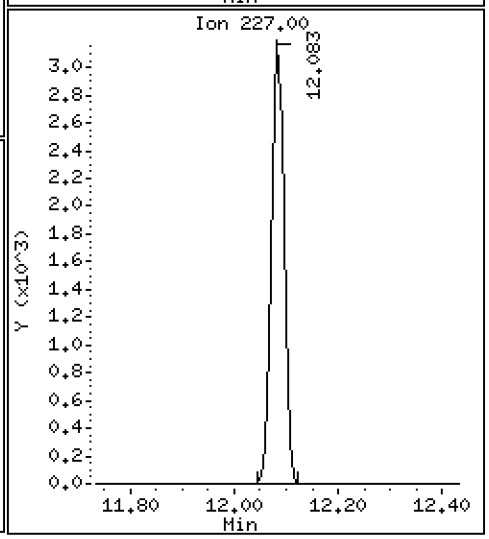












Date : 31-DEC-2022 15:05

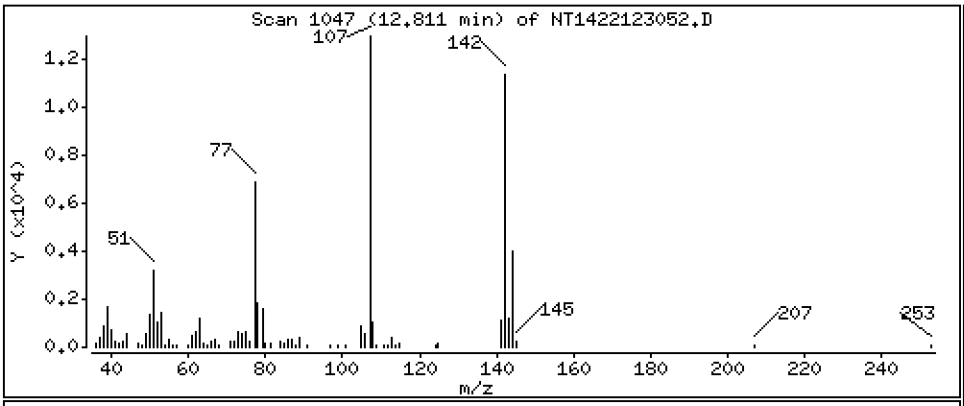
Client ID: Instrument: nt14.i

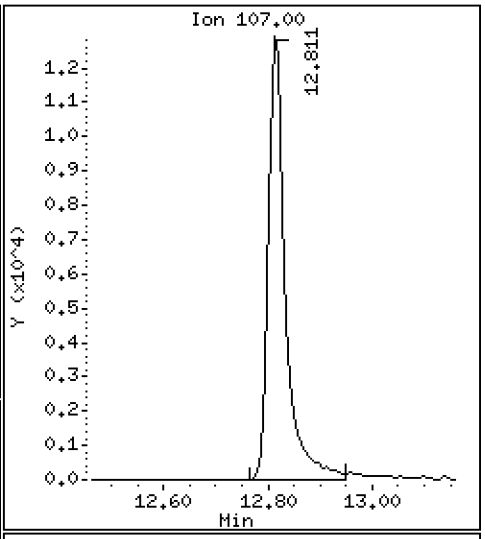
Sample Info: SKL0356-LCV2

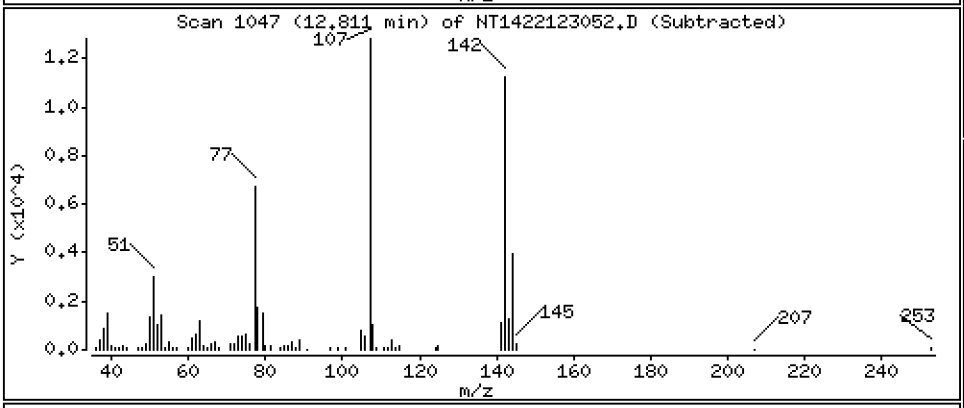
Operator: VTS

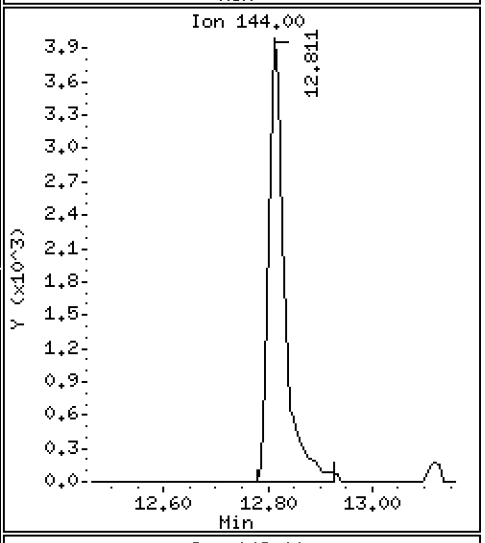
Column phase: ZB-5msi Column diameter: 0.25

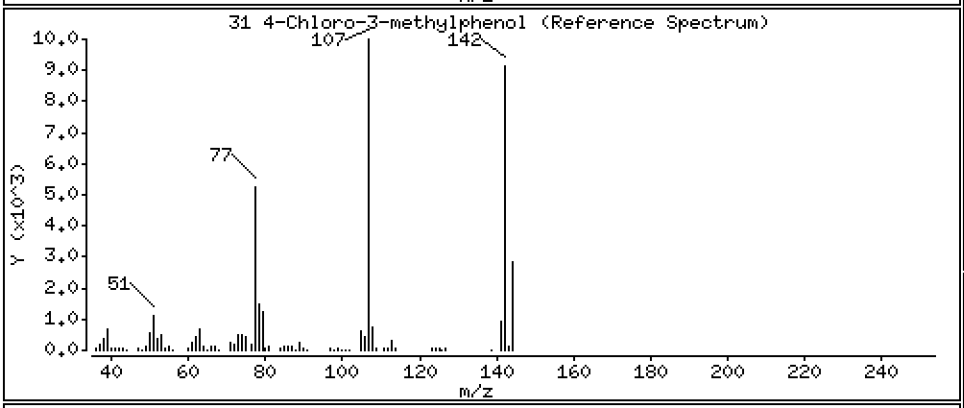
31 4-Chloro-3-methylphenol Concentration: 0.9524 ug/mL

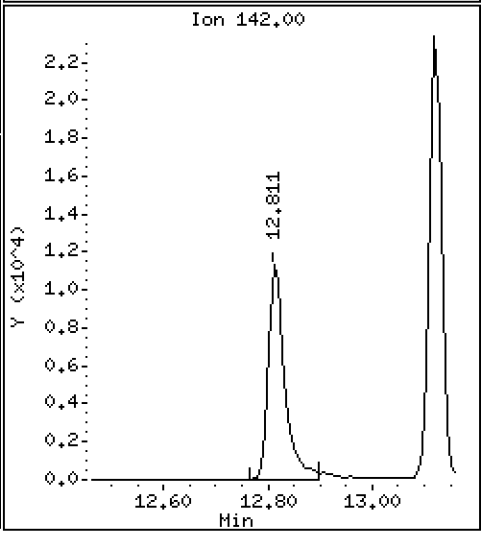


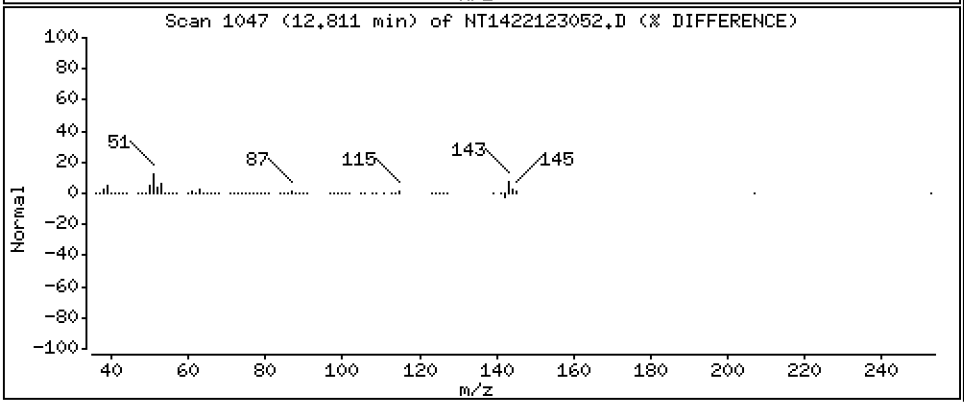












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

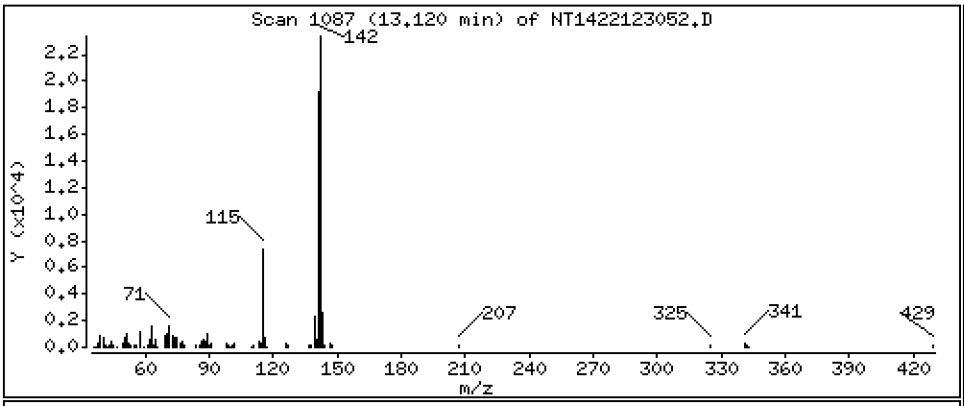
Operator: VTS

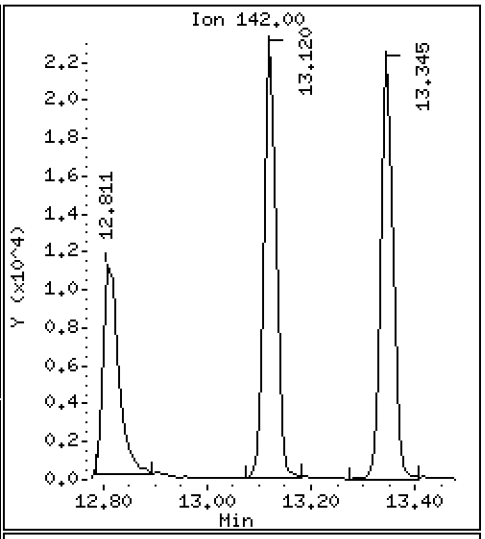
Column phase: ZB-5msi

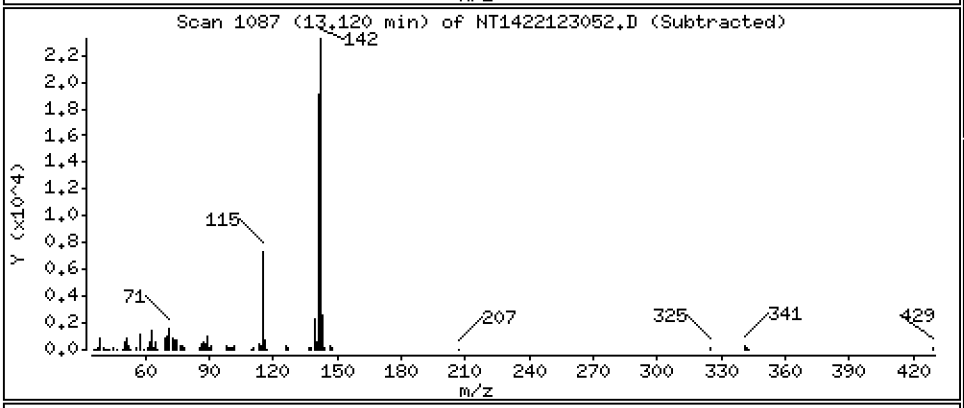
Column diameter: 0.25

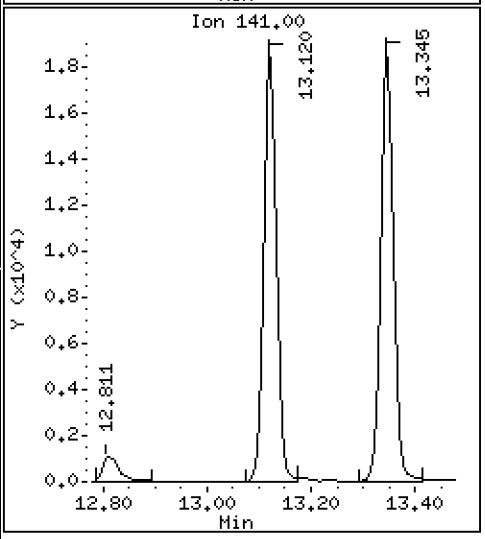
32 2-Methylnaphthalene

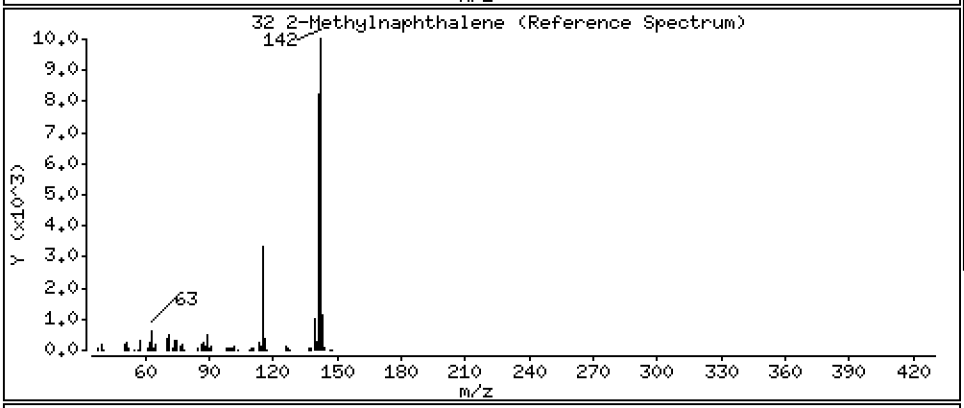
Concentration: 0.4676 ug/mL

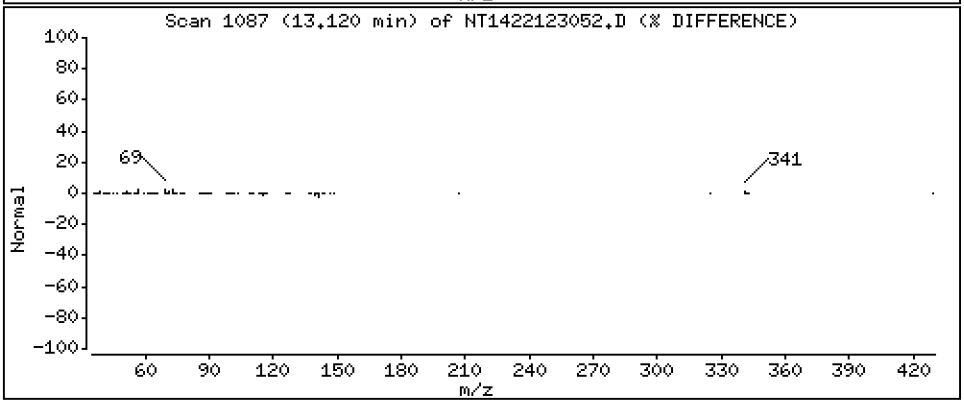












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

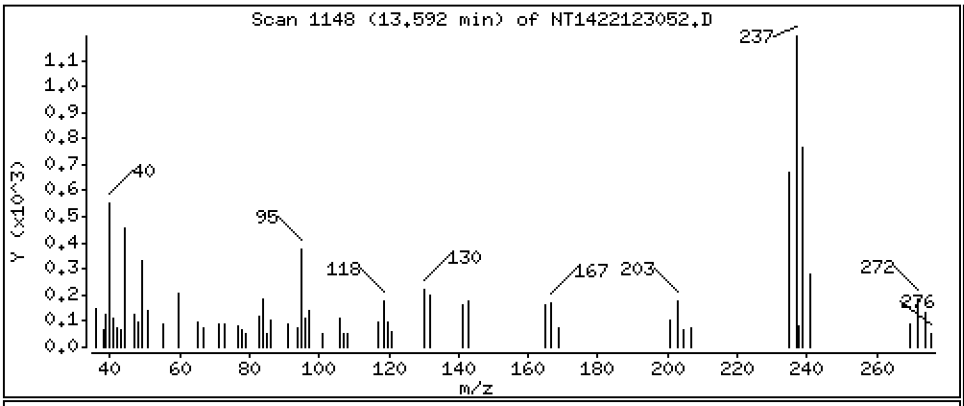
Operator: VTS

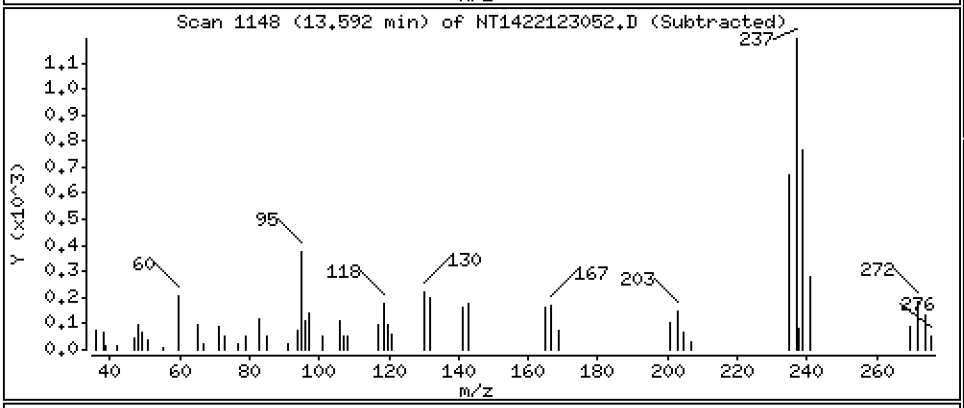
Column phase: ZB-5msi

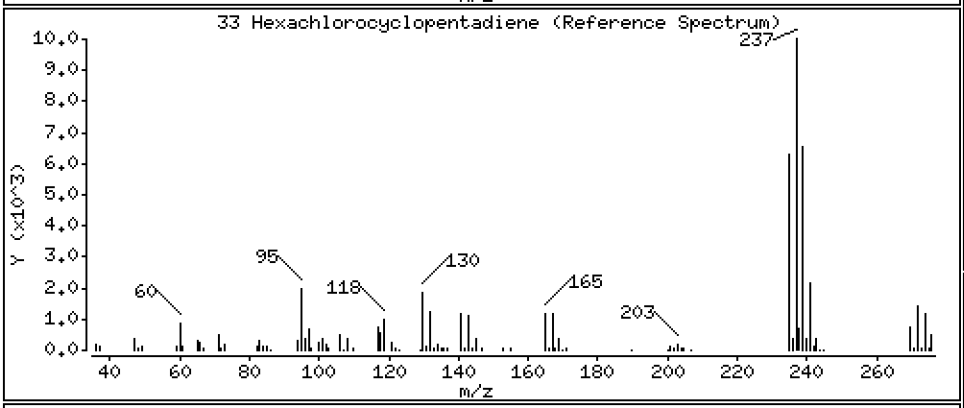
Column diameter: 0.25

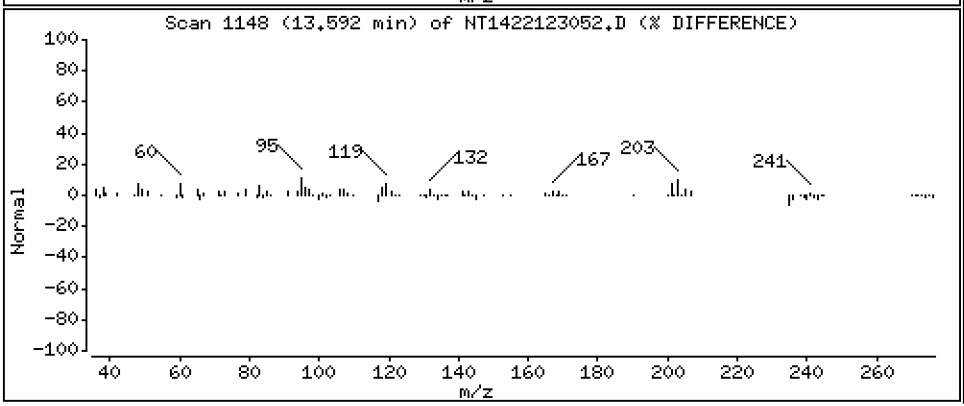
33 Hexachlorocyclopentadiene

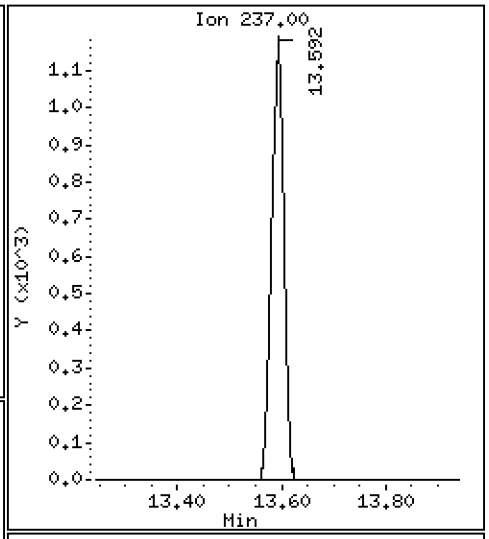
Concentration: 0.1074 ug/mL

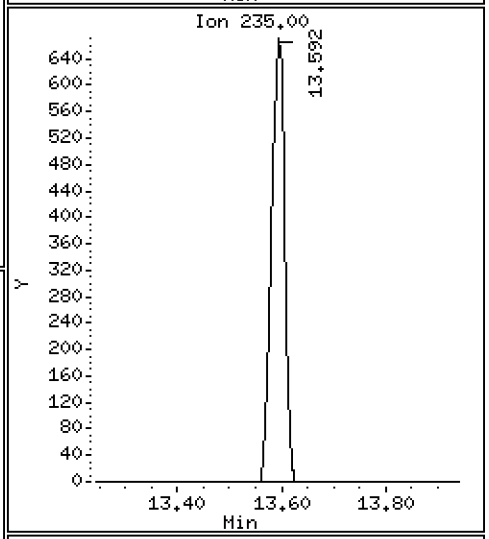


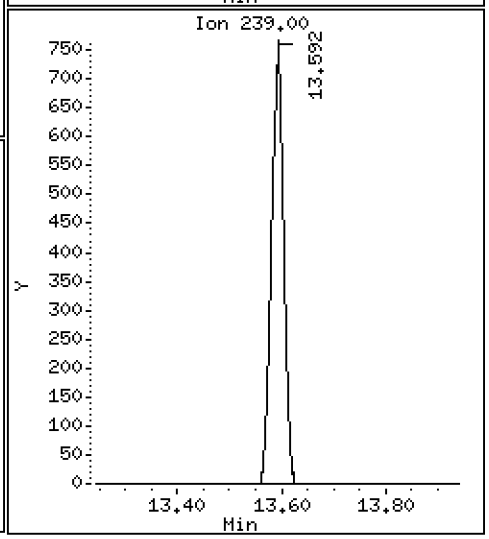












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

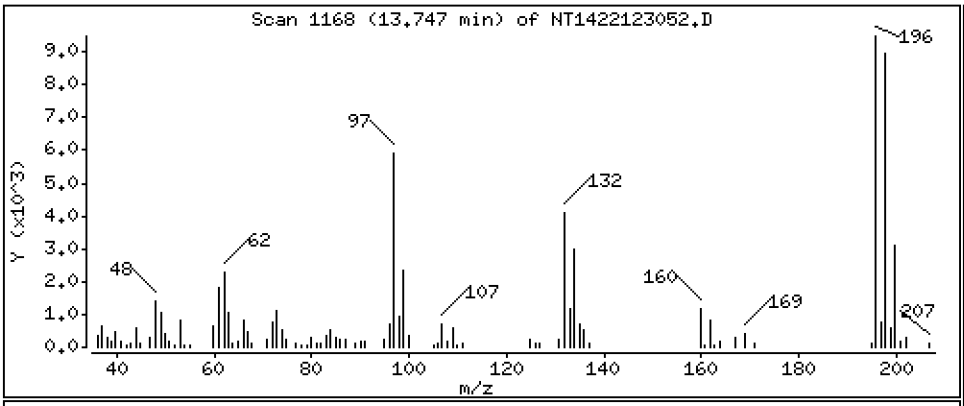
Operator: VTS

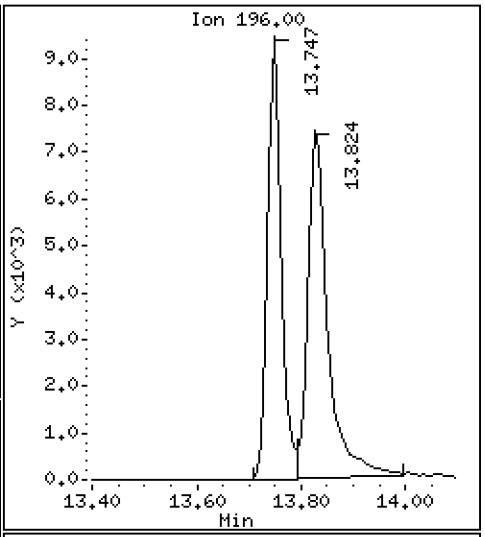
Column phase: ZB-5msi

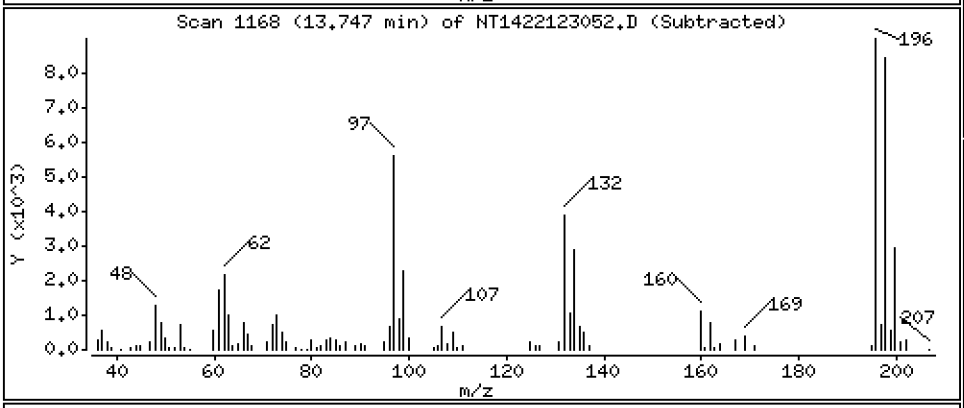
Column diameter: 0.25

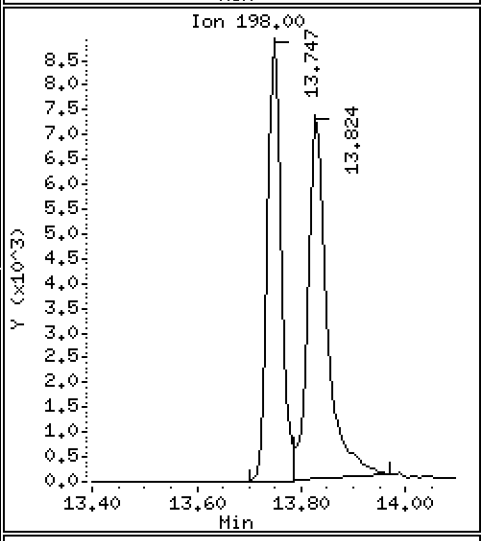
34 2,4,6-Trichlorophenol

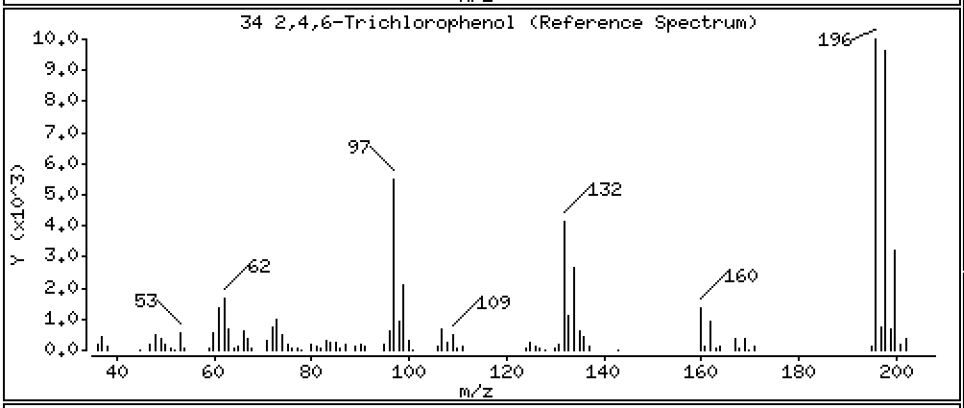
Concentration: 0.8903 ug/mL

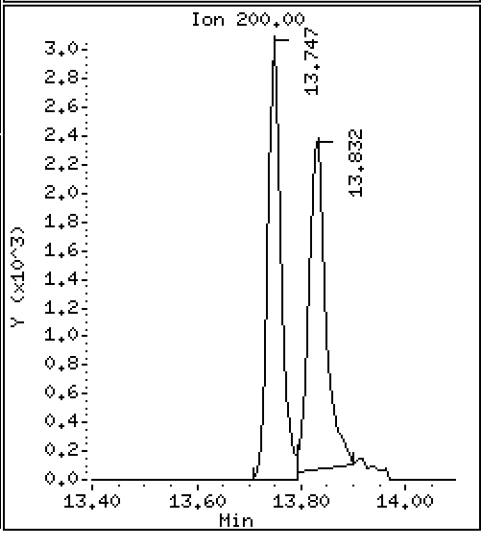


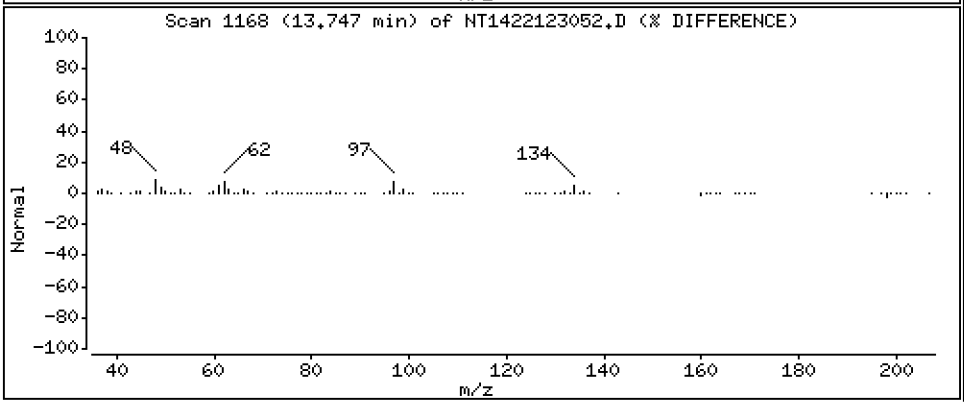












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

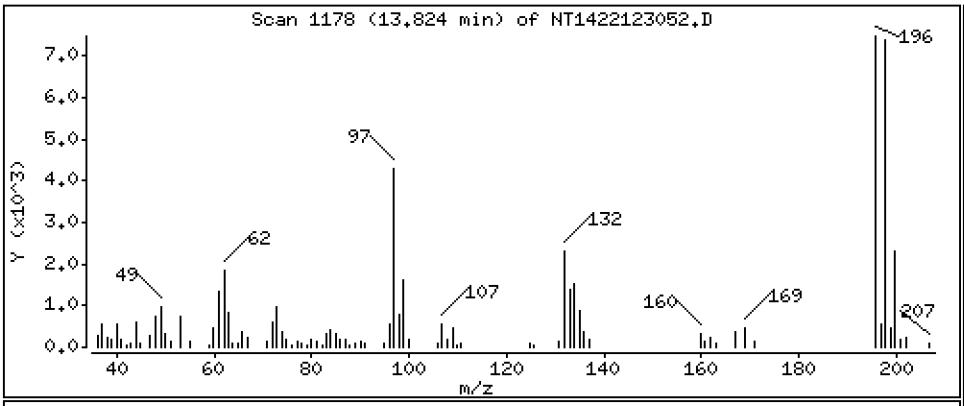
Operator: VTS

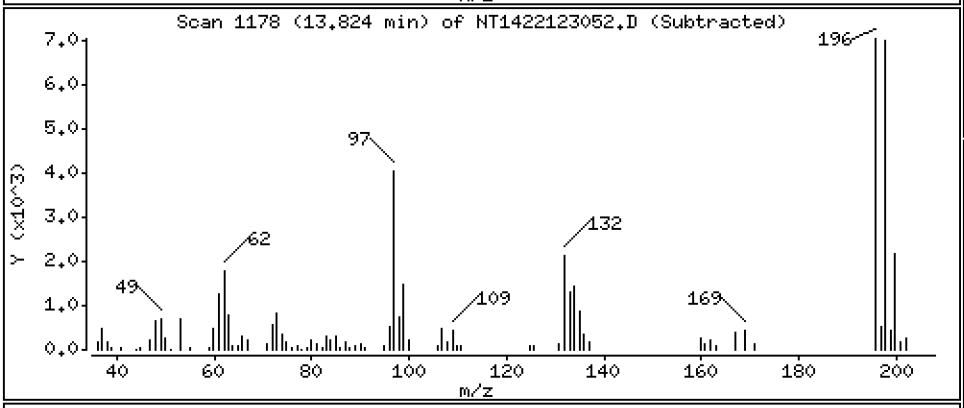
Column phase: ZB-5msi

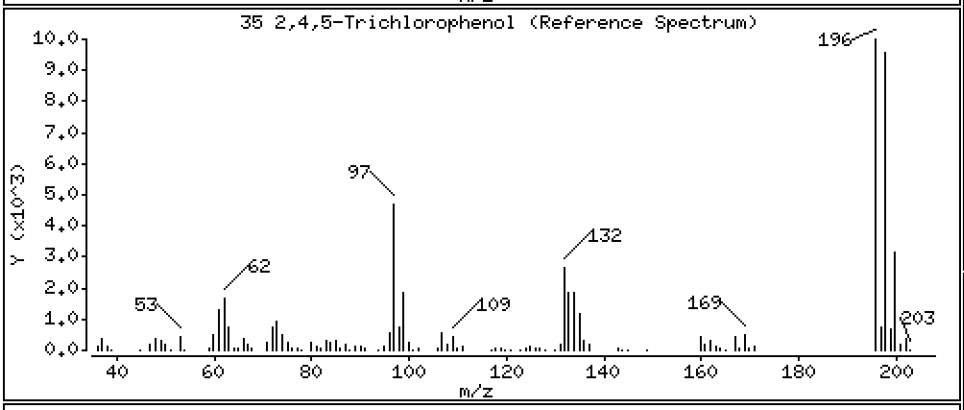
Column diameter: 0.25

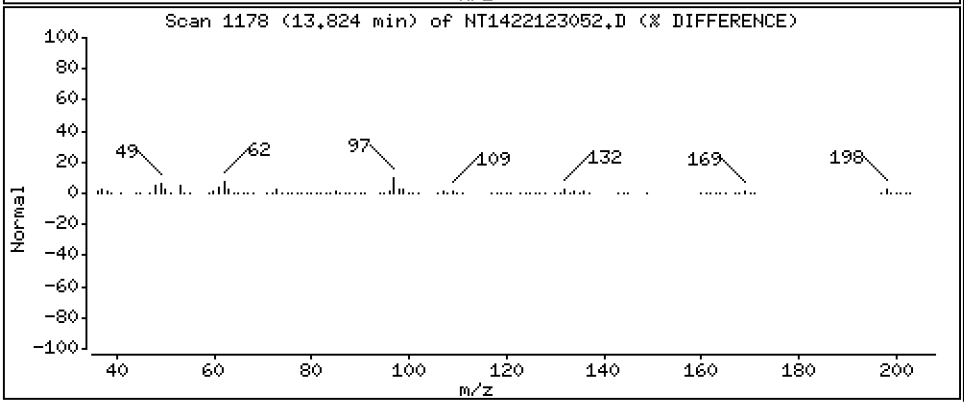
35 2,4,5-Trichlorophenol

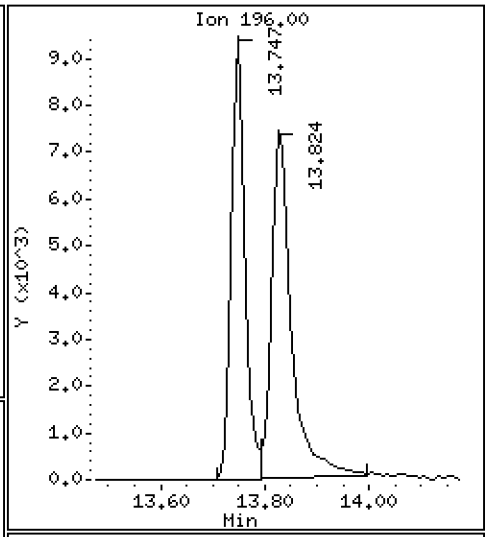
Concentration: 0.8994 ug/mL

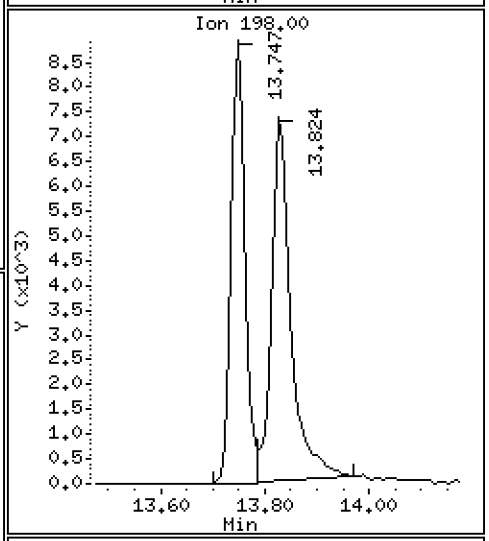


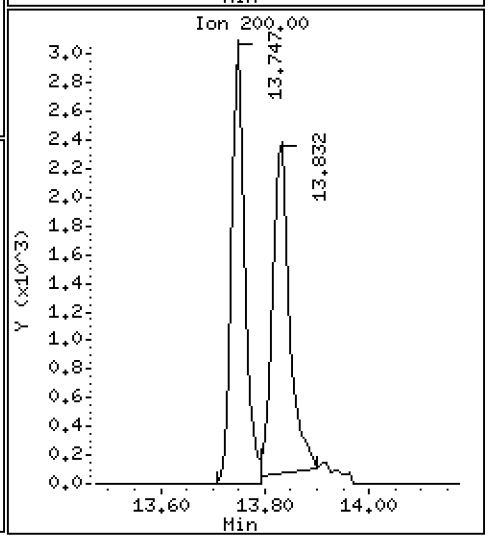












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

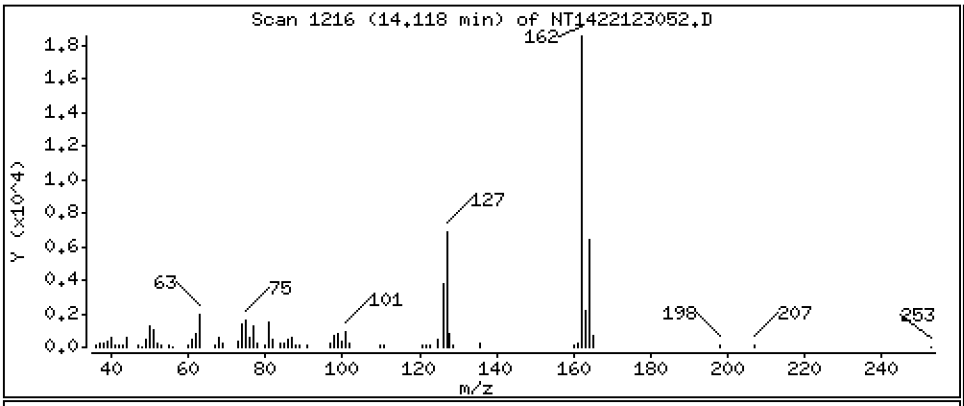
Operator: VTS

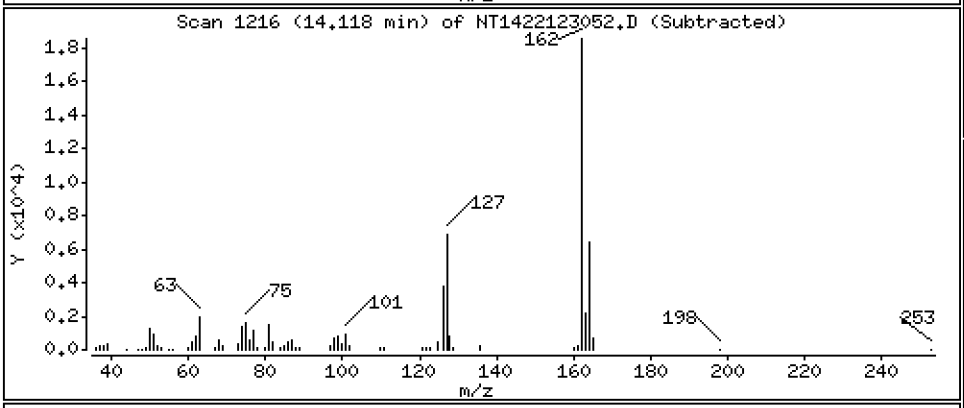
Column phase: ZB-5msi

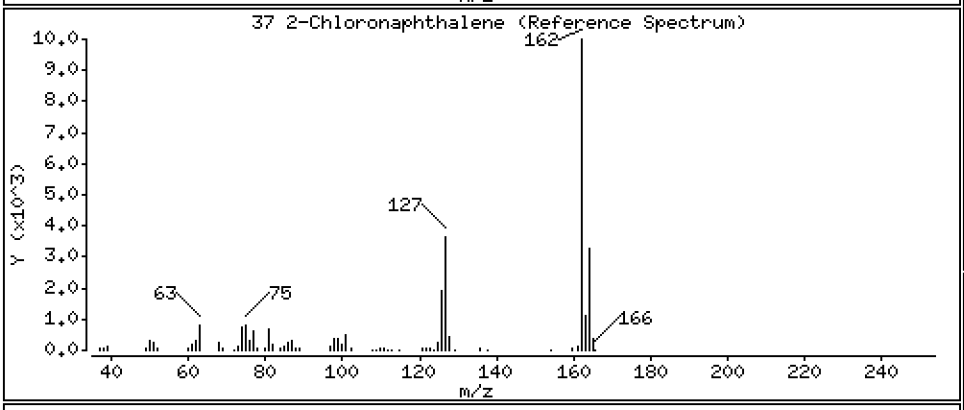
Column diameter: 0.25

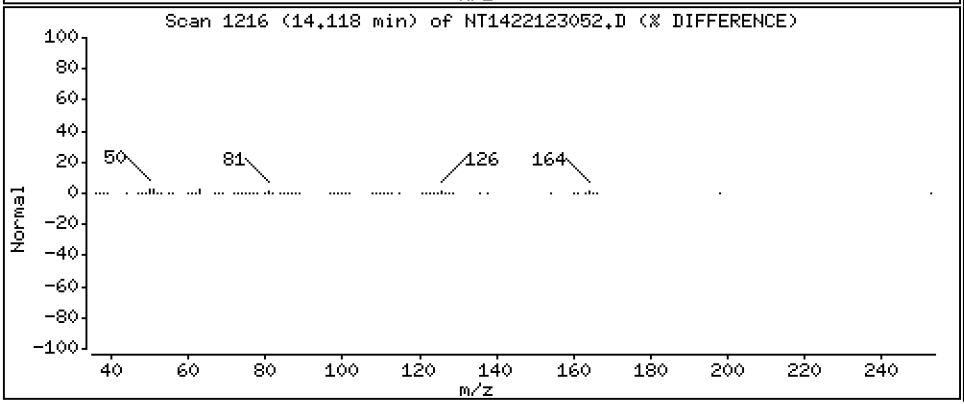
37 2-Chloronaphthalene

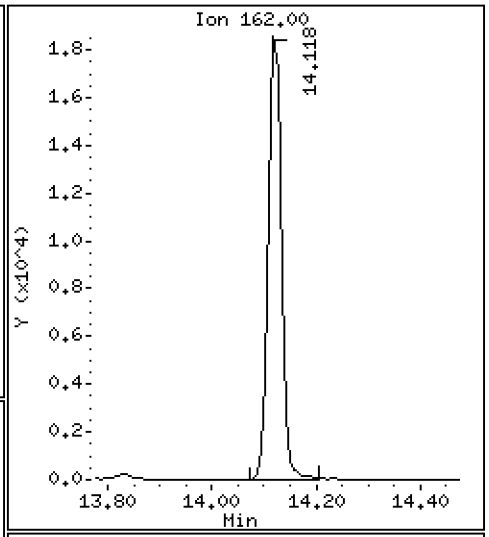
Concentration: 0.4882 ug/mL

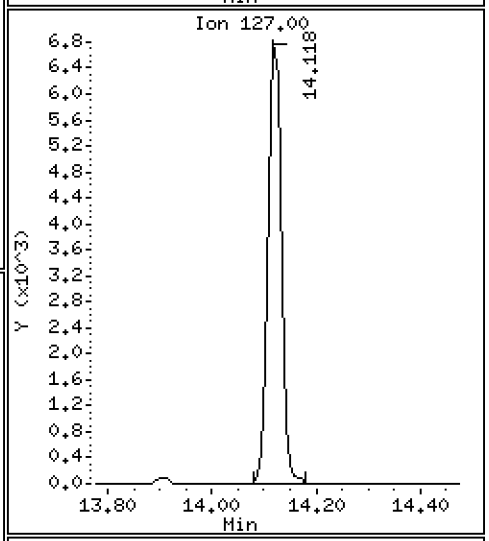


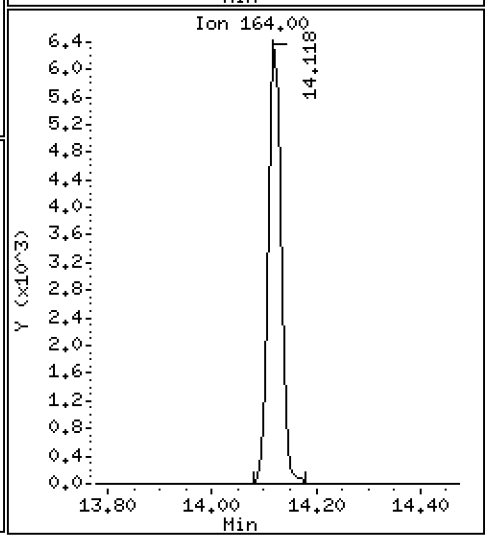












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

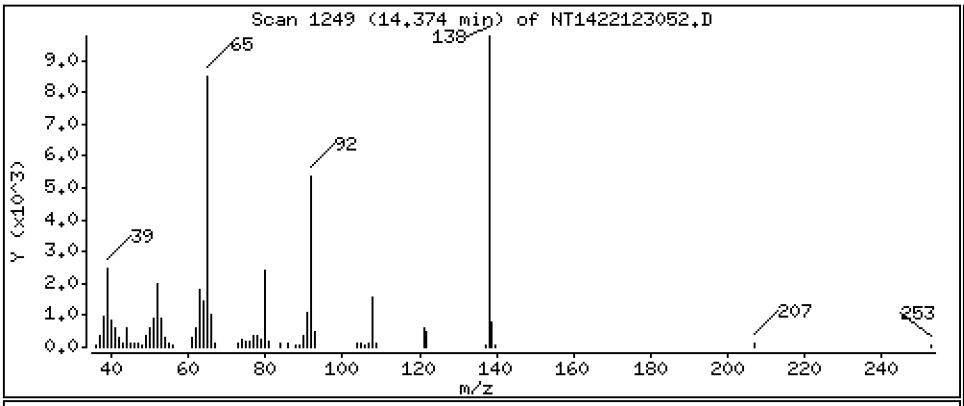
Operator: VTS

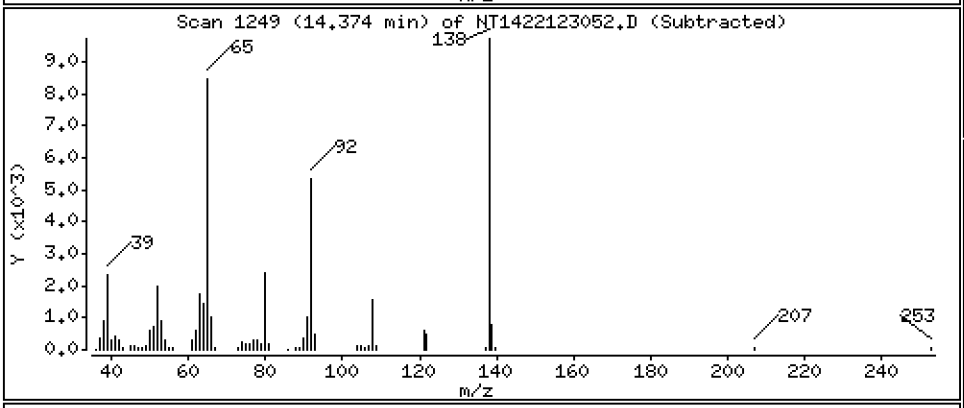
Column phase: ZB-5msi

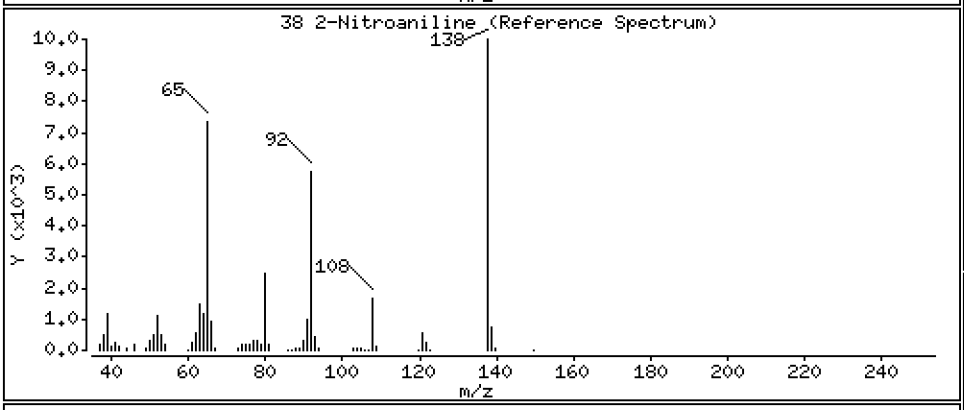
Column diameter: 0.25

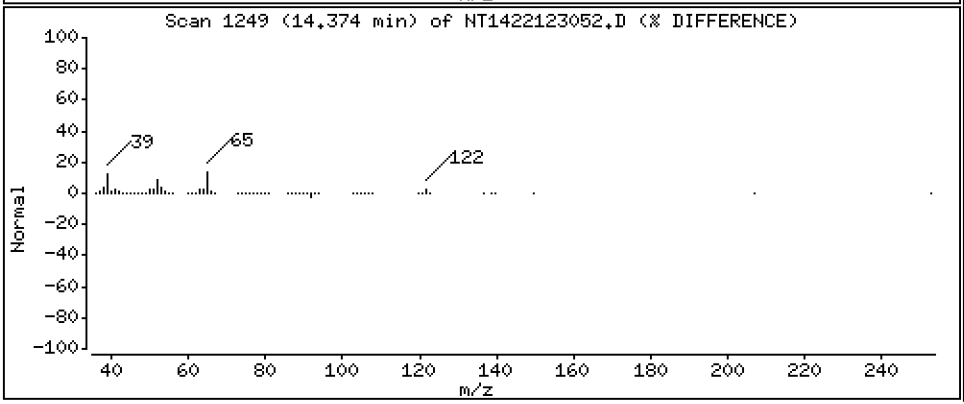
38 2-Nitroaniline

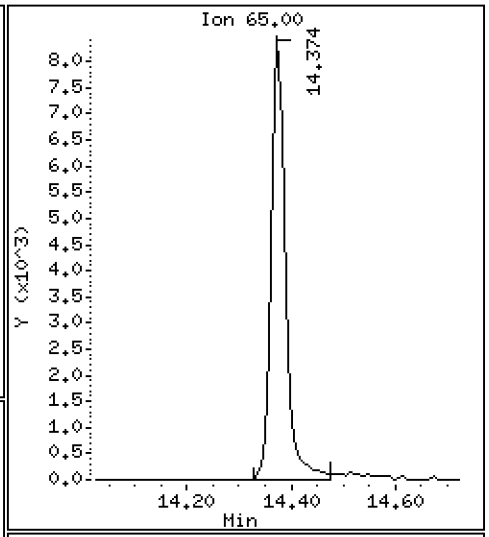
Concentration: 0.9202 ug/mL

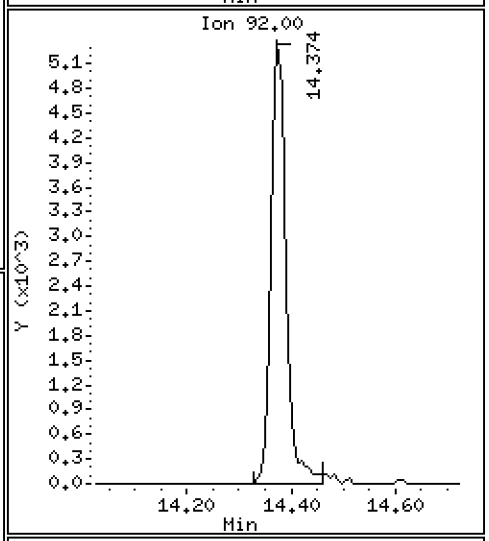


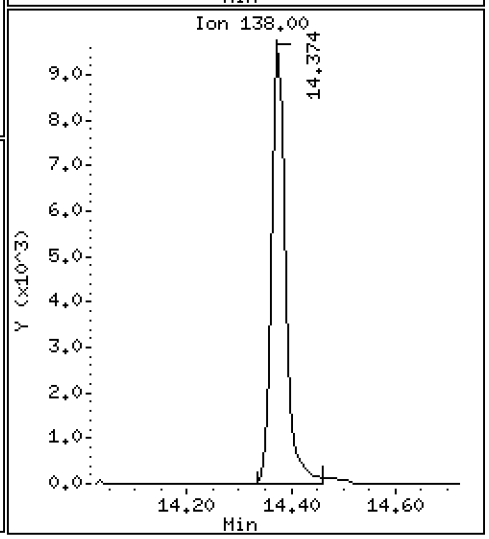












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

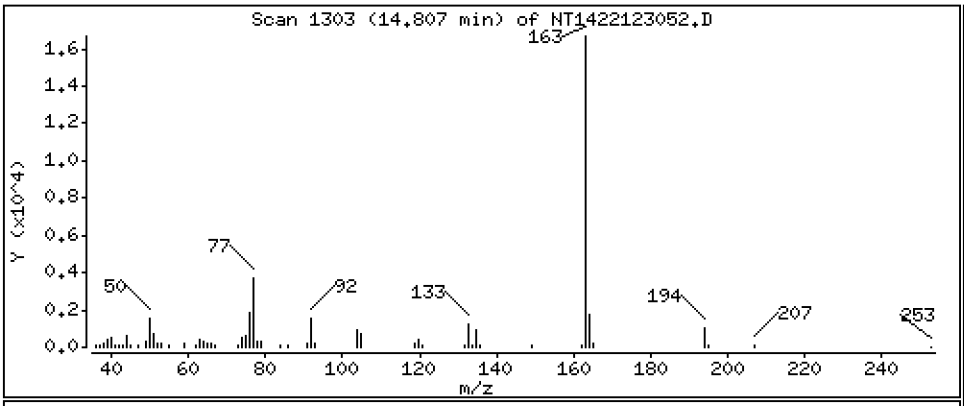
Operator: VTS

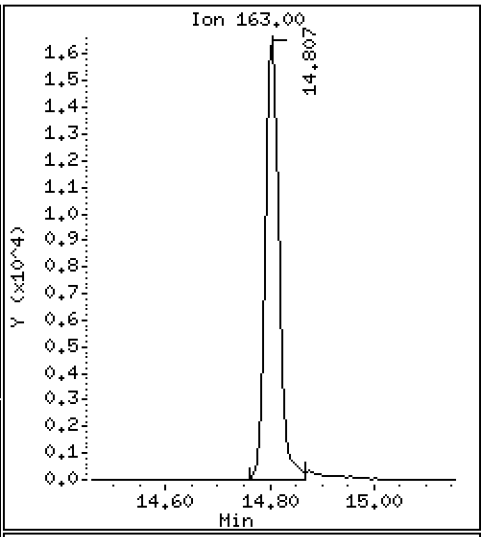
Column phase: ZB-5msi

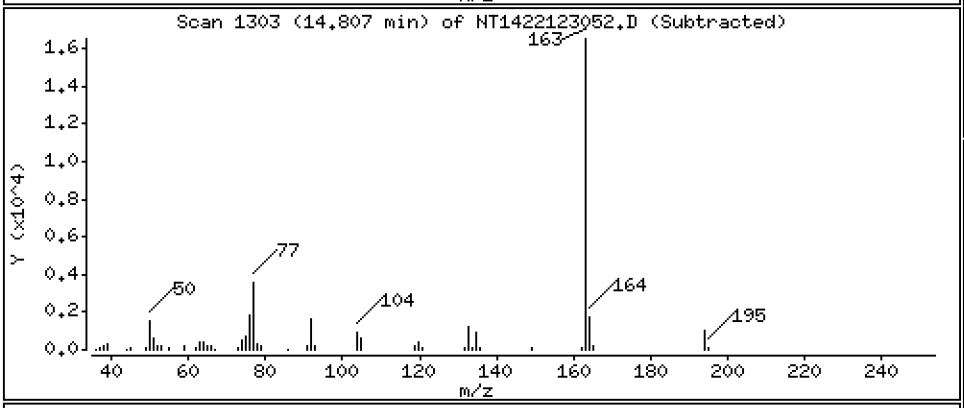
Column diameter: 0.25

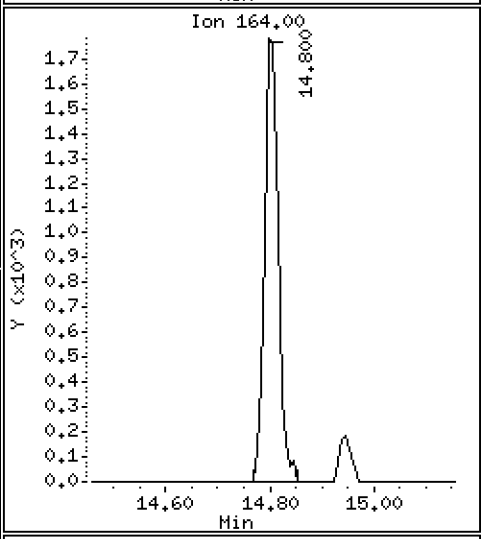
39 Dimethylphthalate

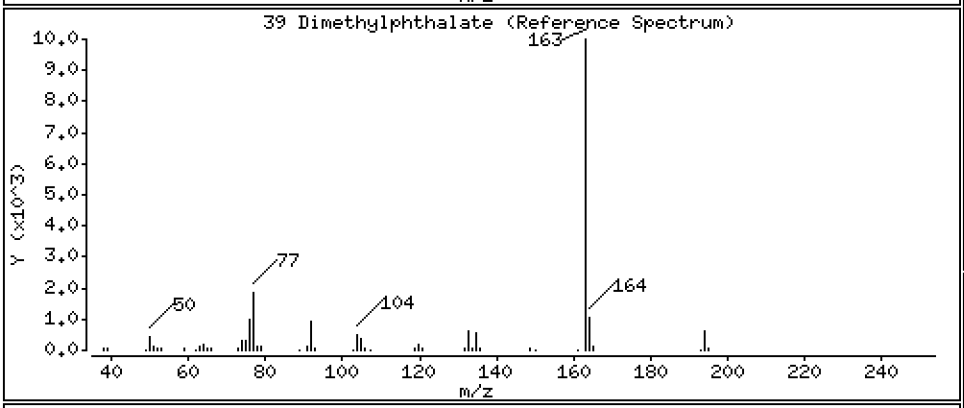
Concentration: 0.4656 ug/mL

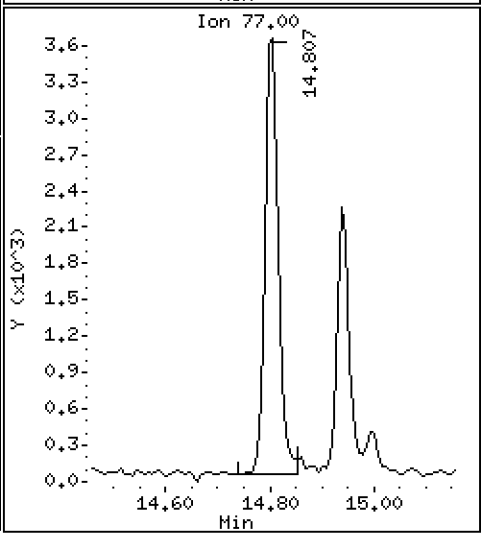


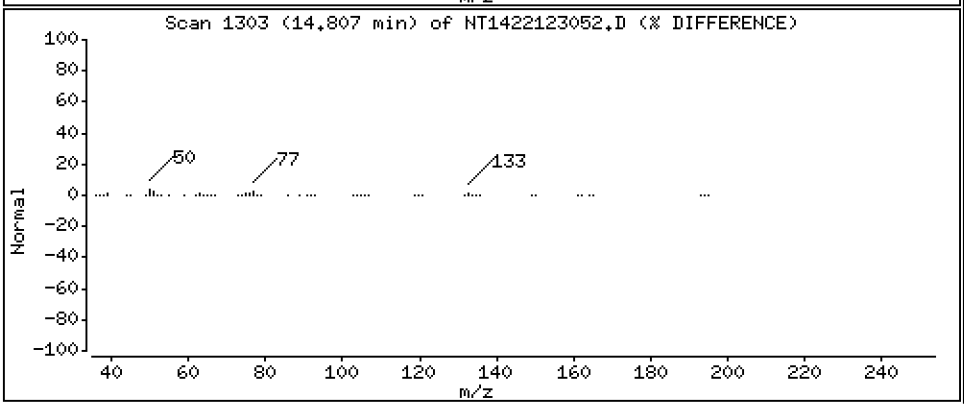












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

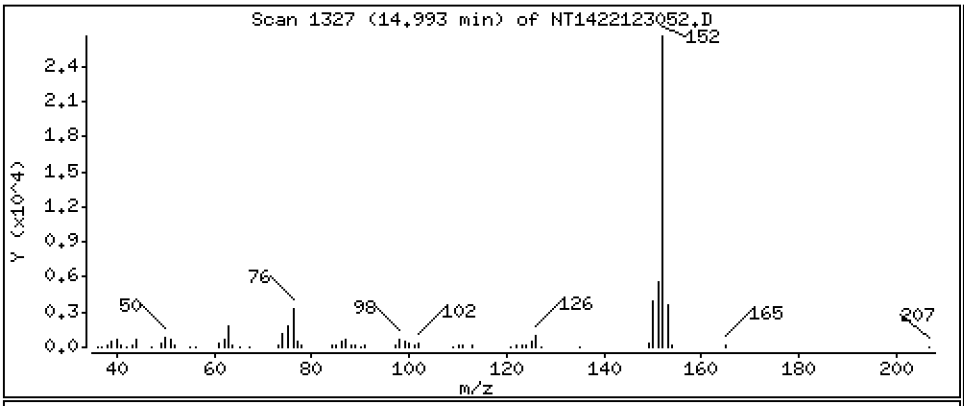
Operator: VTS

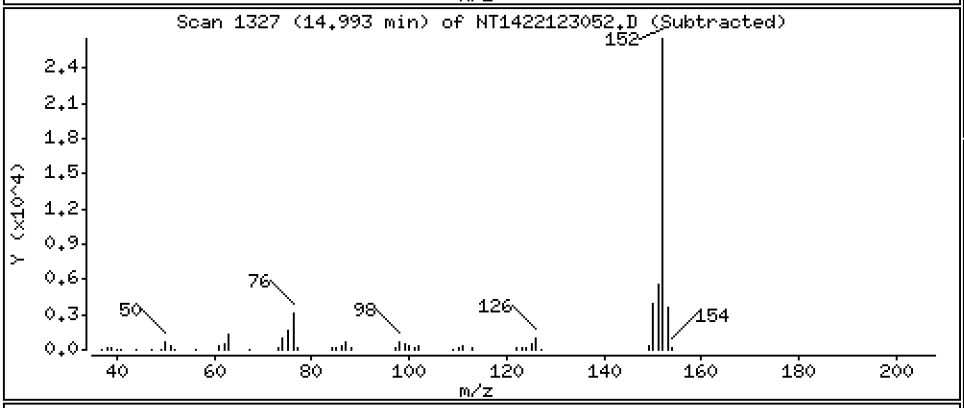
Column phase: ZB-5msi

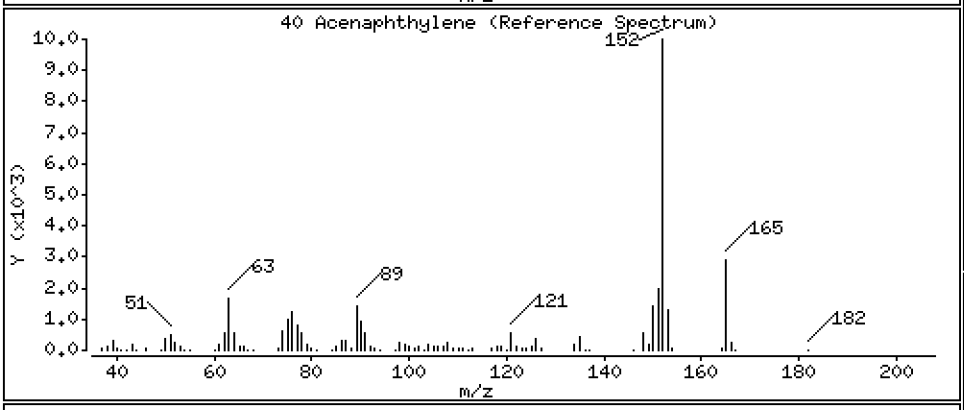
Column diameter: 0.25

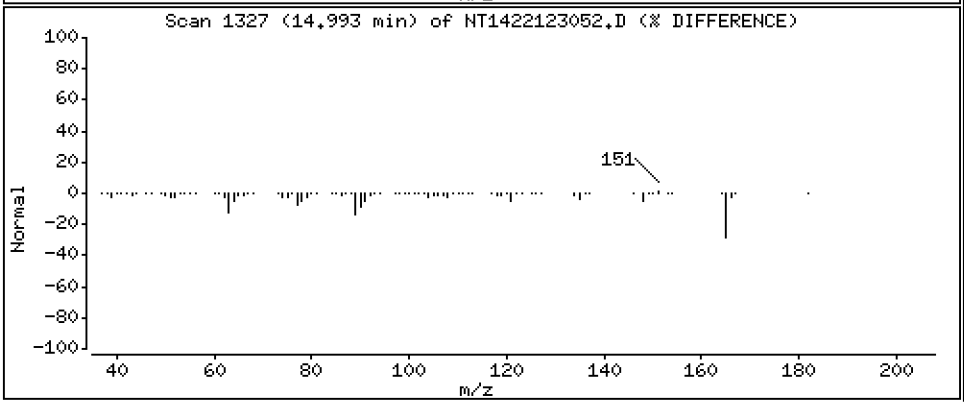
40 Acenaphthylene

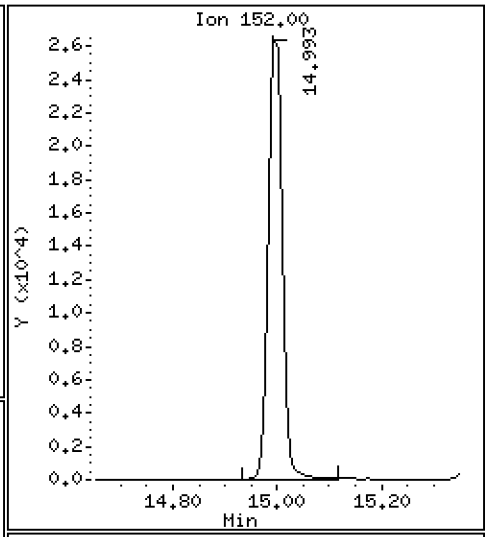
Concentration: 0.5321 ug/mL

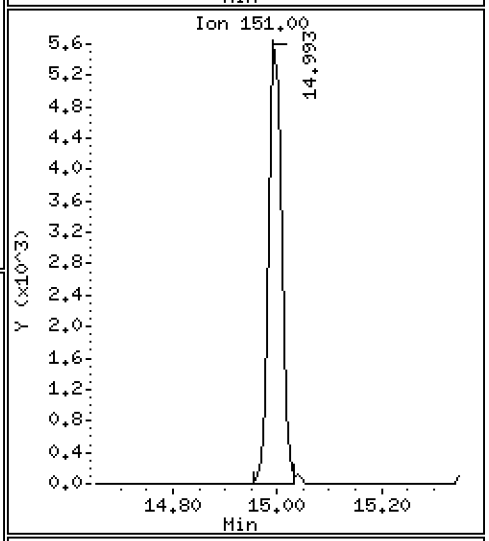


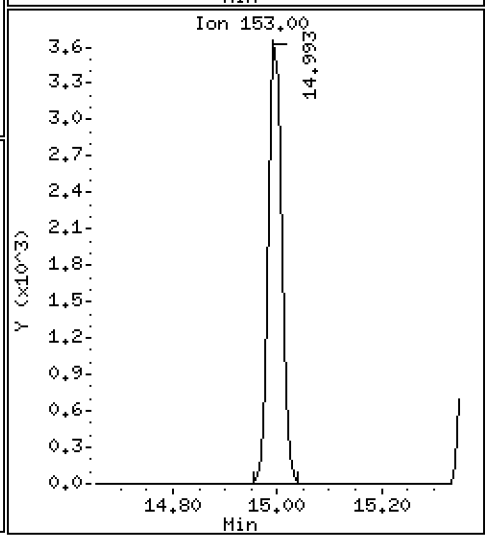












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

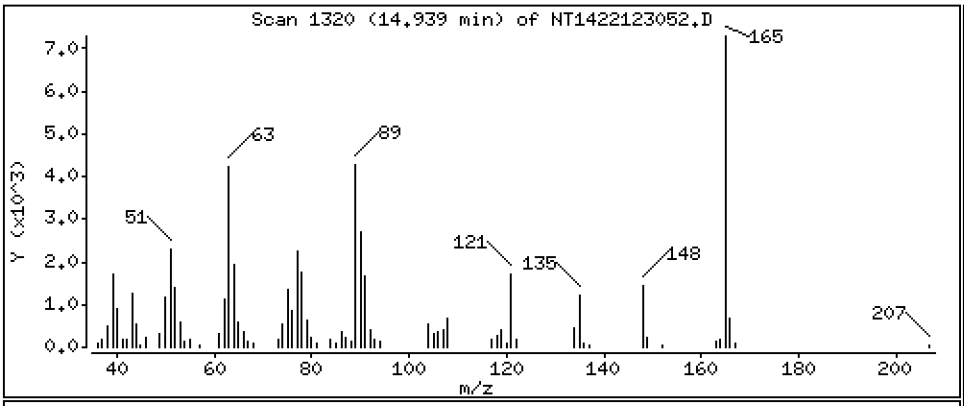
Operator: VTS

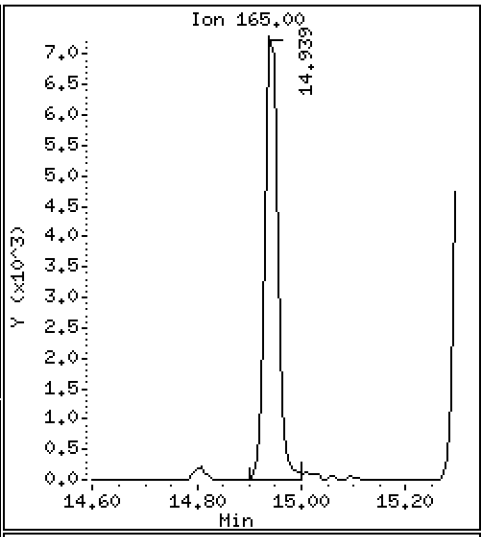
Column phase: ZB-5msi

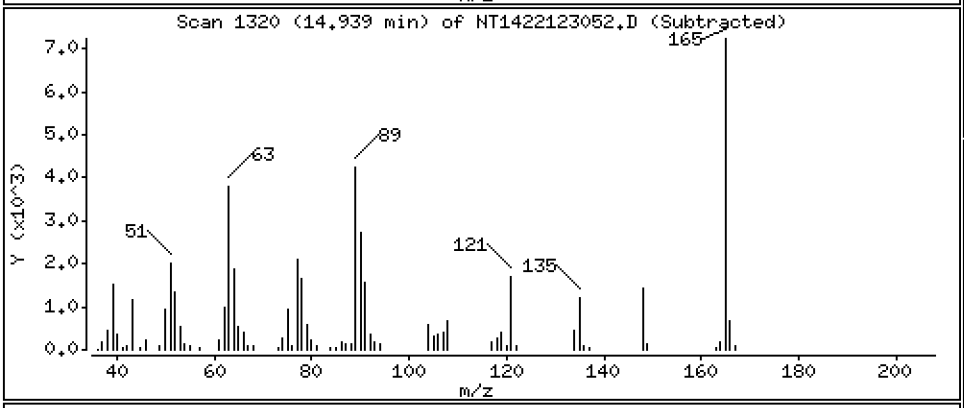
Column diameter: 0.25

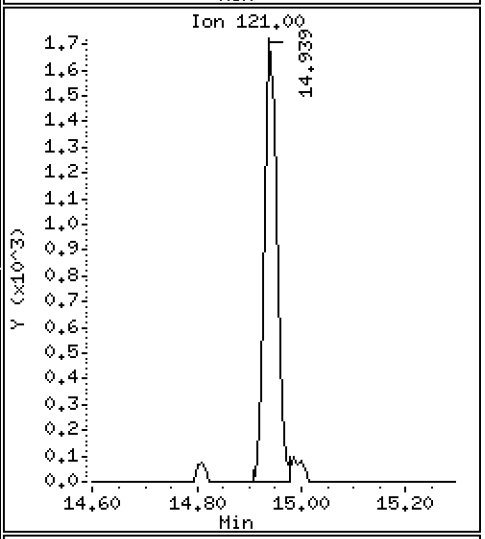
41 2,6-Dinitrotoluene

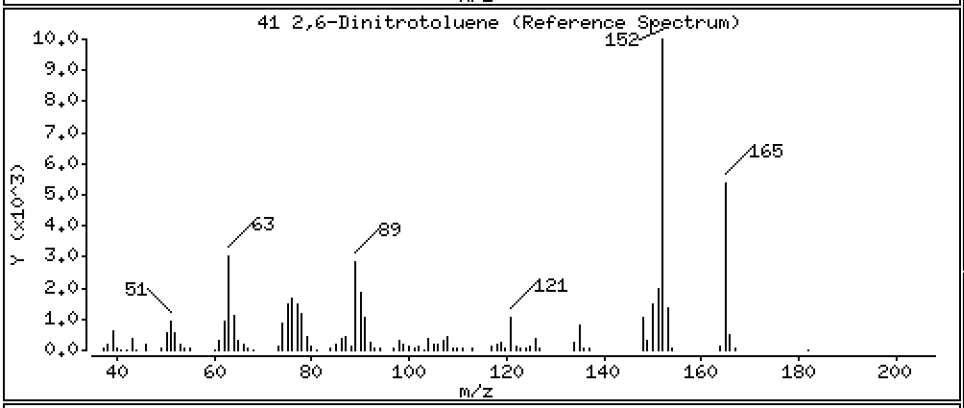
Concentration: 0.8515 ug/mL

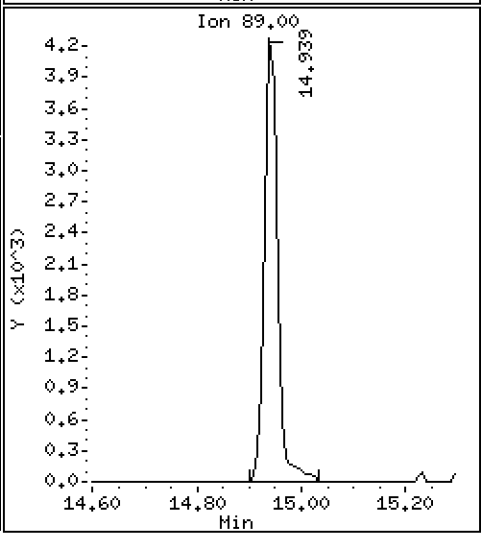


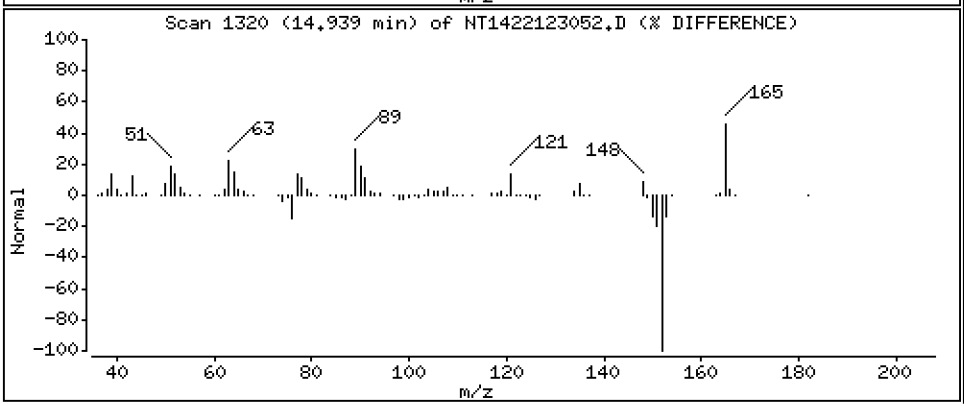












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

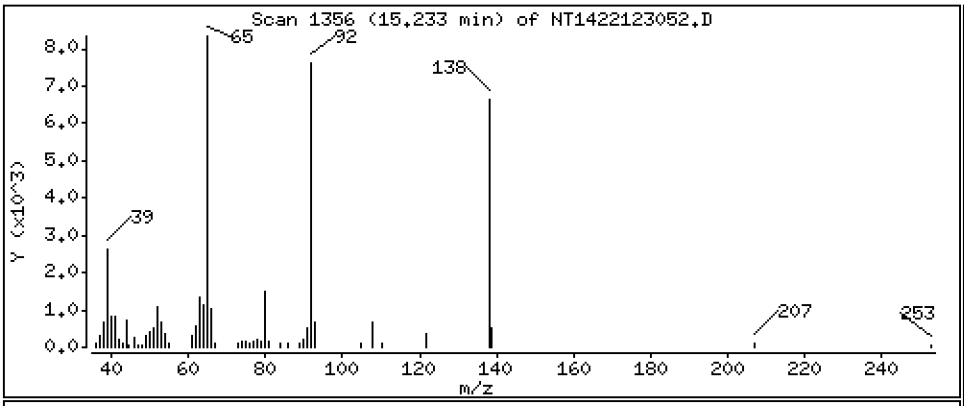
Operator: VTS

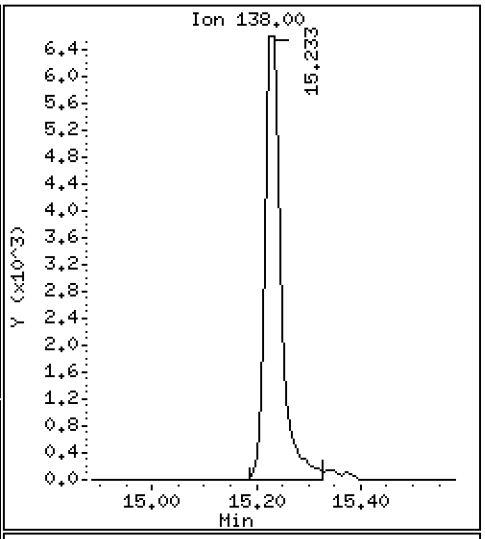
Column phase: ZB-5msi

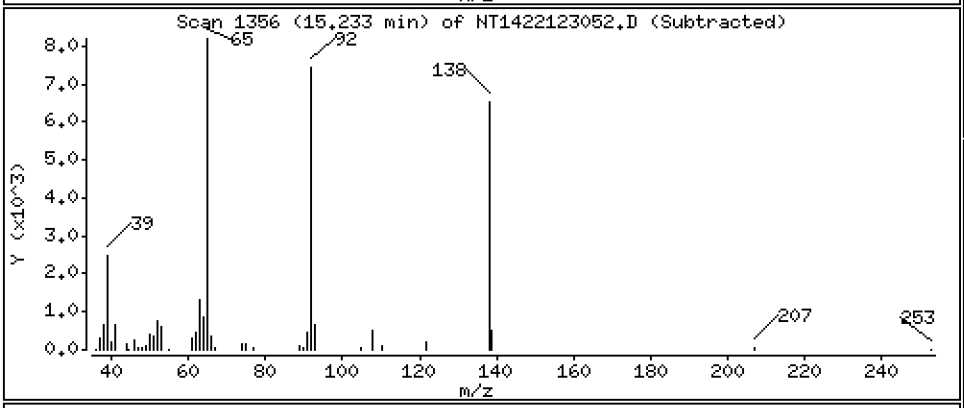
Column diameter: 0.25

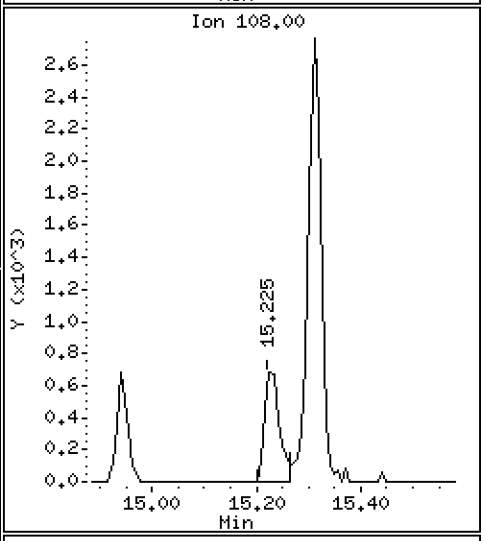
43 3-Nitroaniline

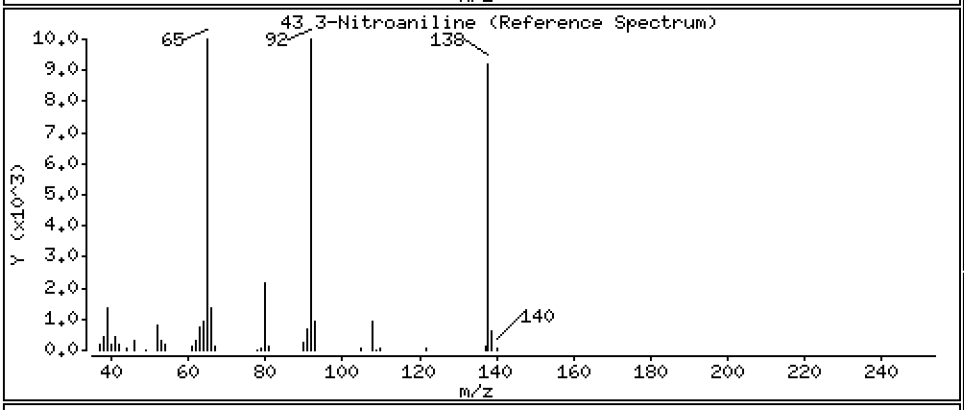
Concentration: 0.8004 ug/mL

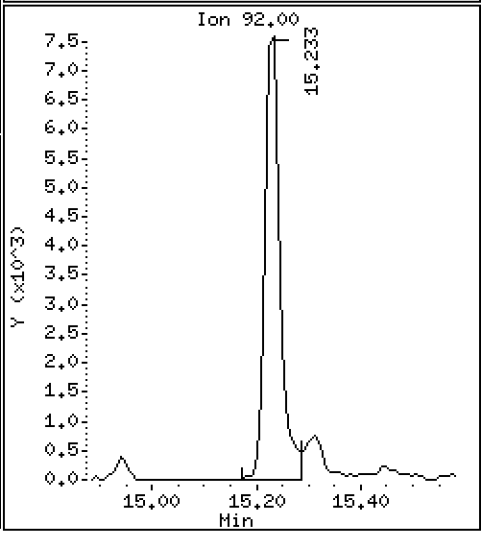


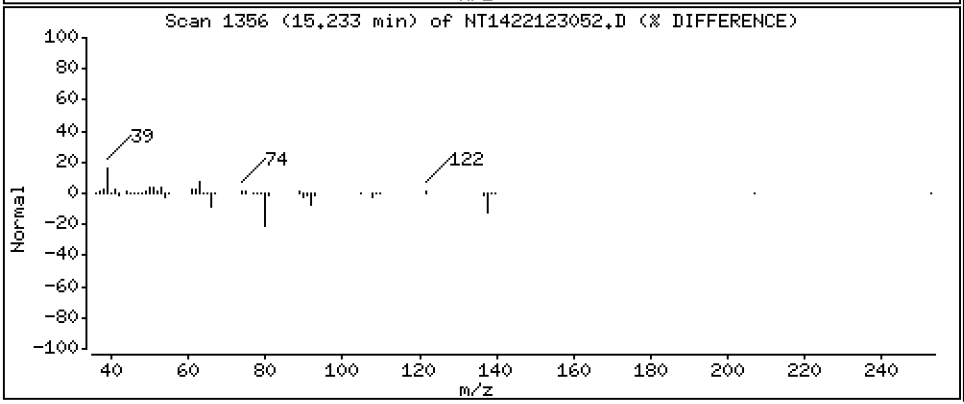












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

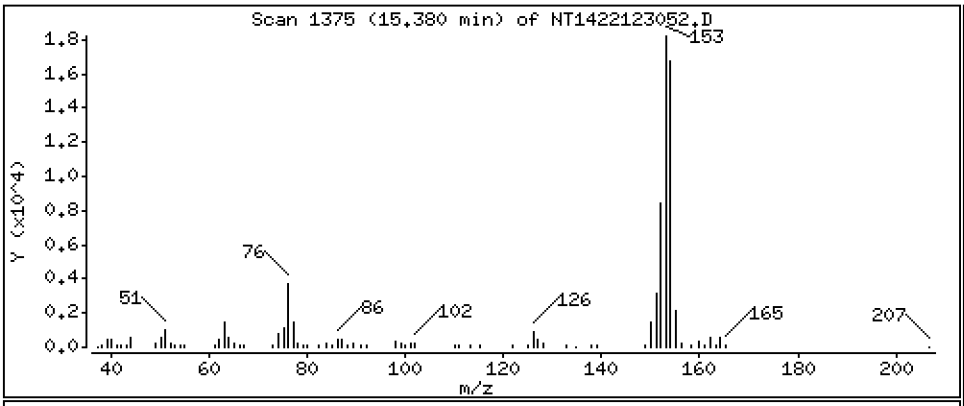
Operator: VTS

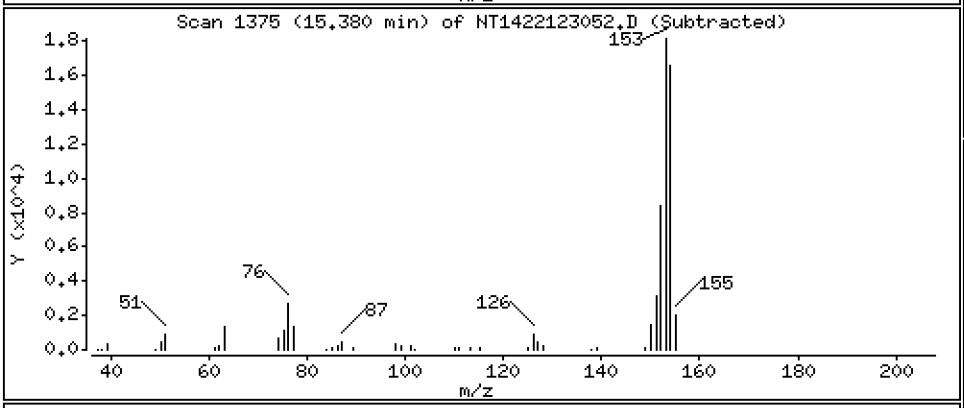
Column phase: ZB-5msi

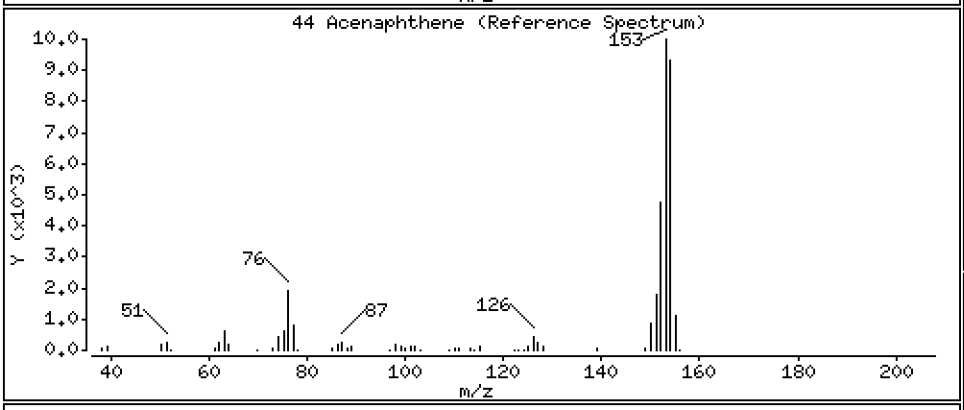
Column diameter: 0.25

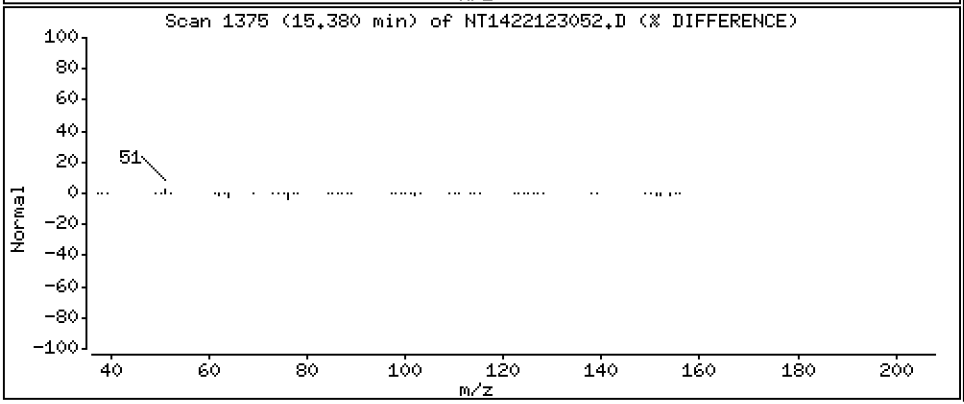
44 Acenaphthene

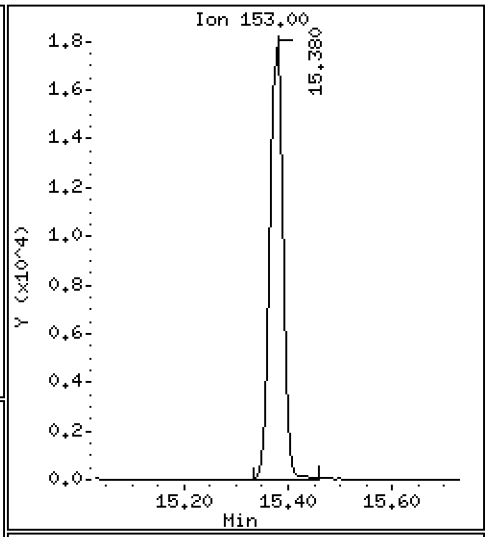
Concentration: 0.4966 ug/mL

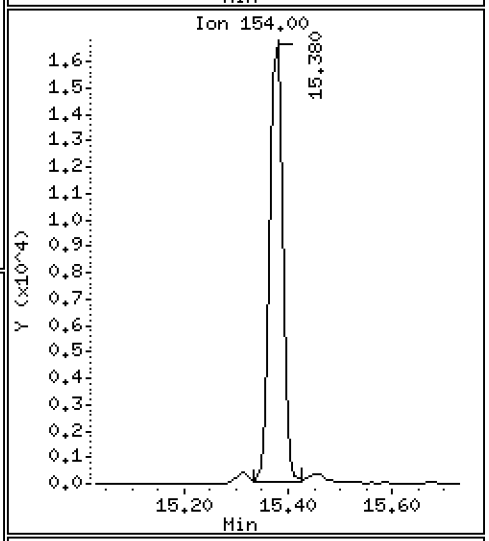


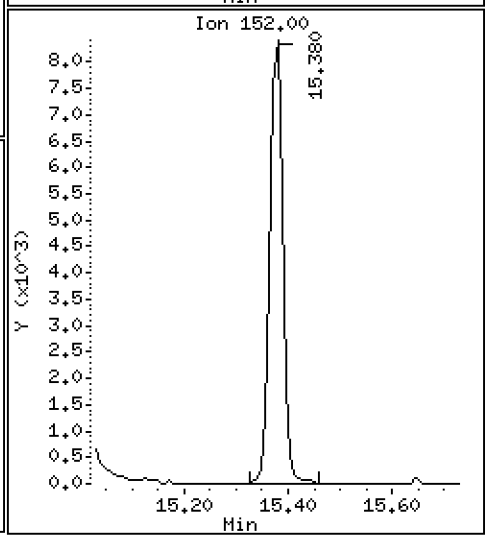












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

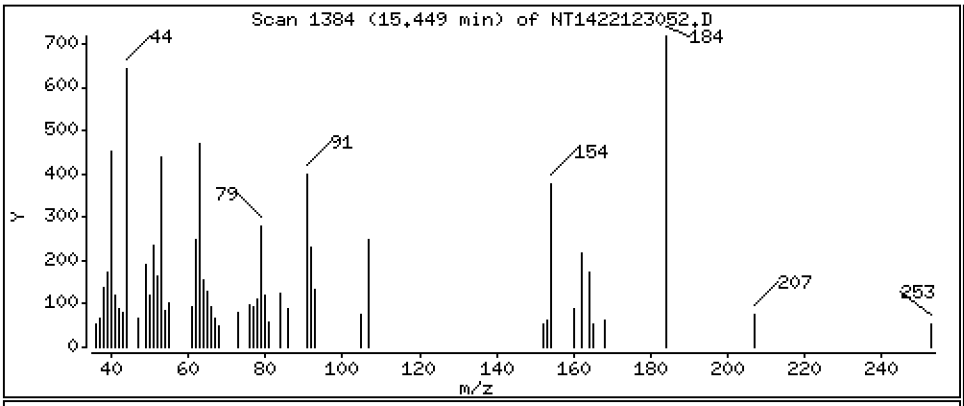
Operator: VTS

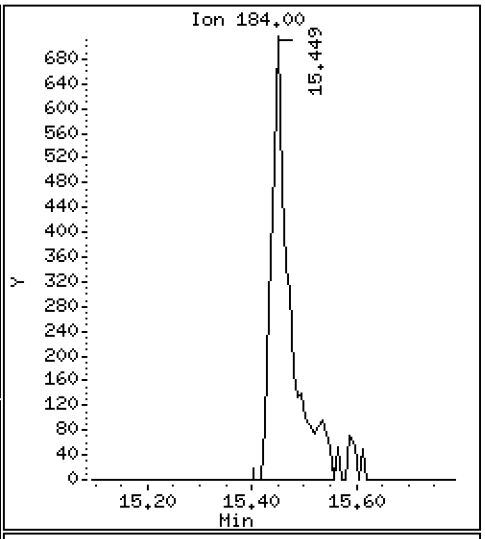
Column phase: ZB-5msi

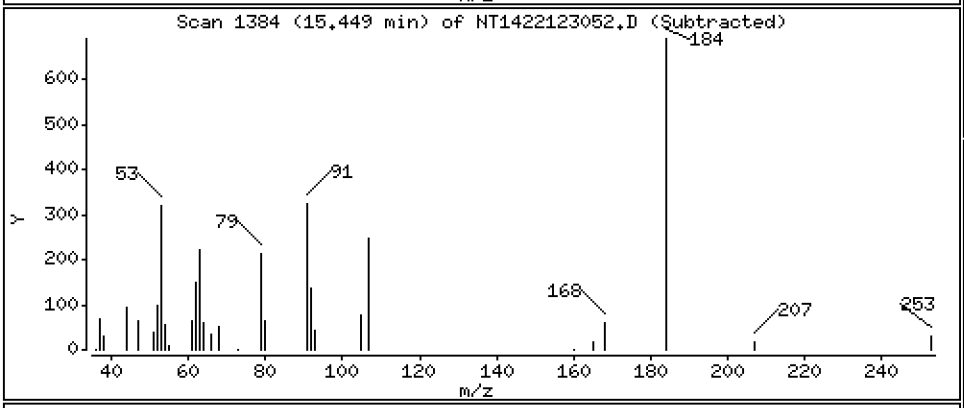
Column diameter: 0.25

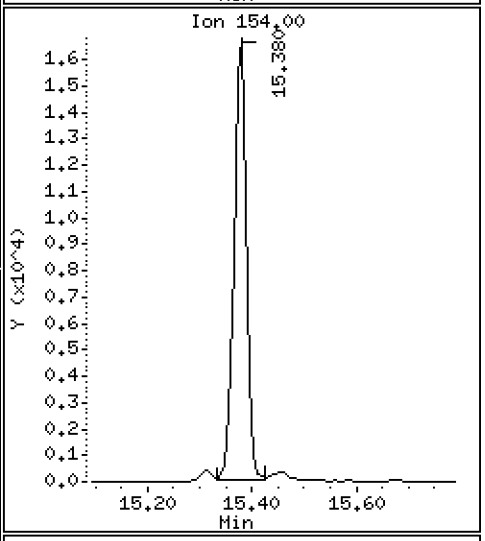
45 2,4-Dinitrophenol

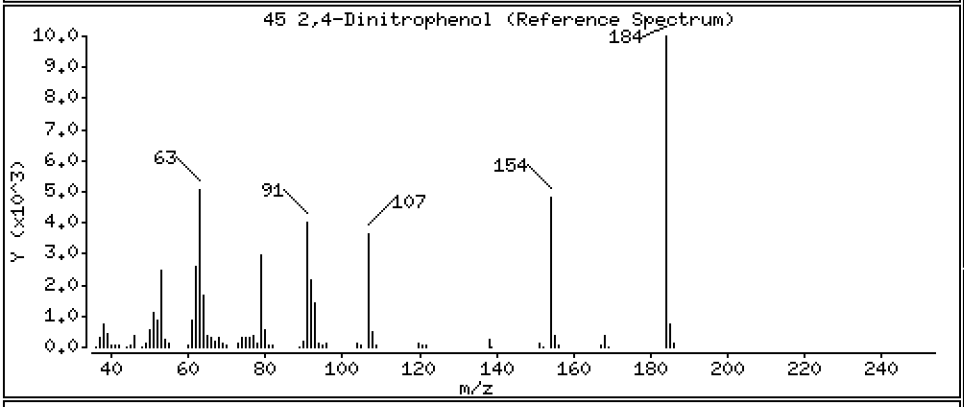
Concentration: 0.1450 ug/mL

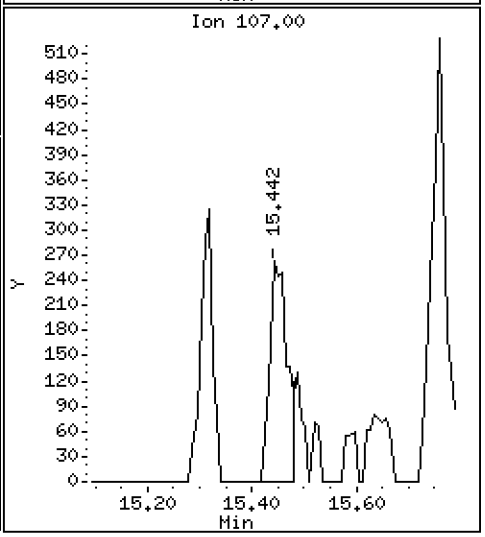


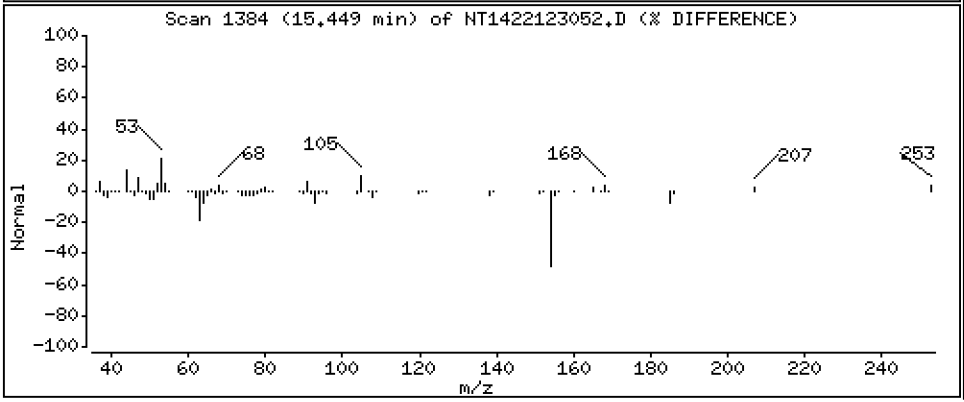












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

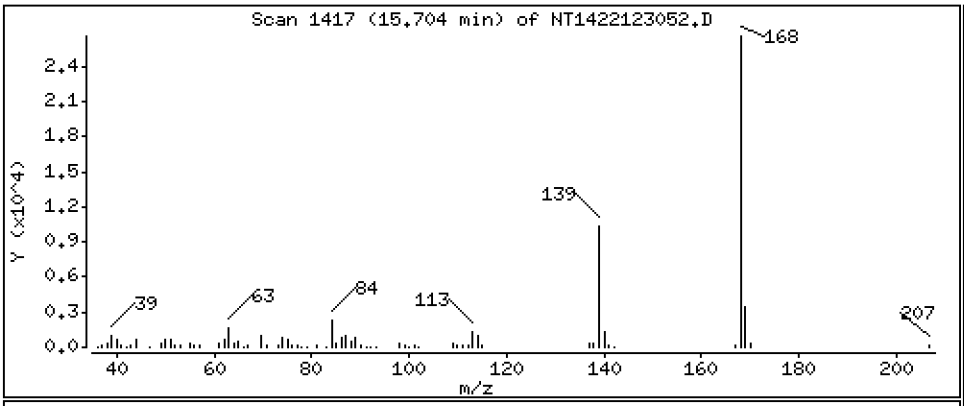
Operator: VTS

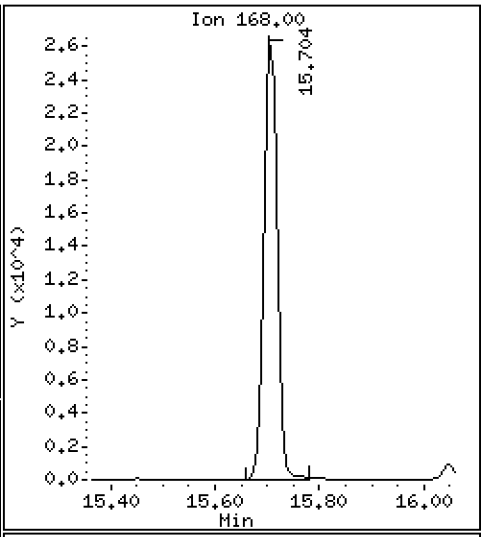
Column phase: ZB-5msi

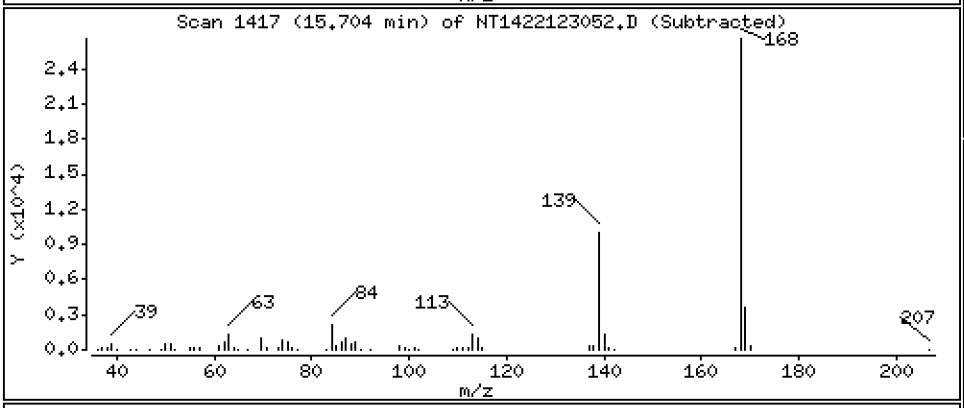
Column diameter: 0.25

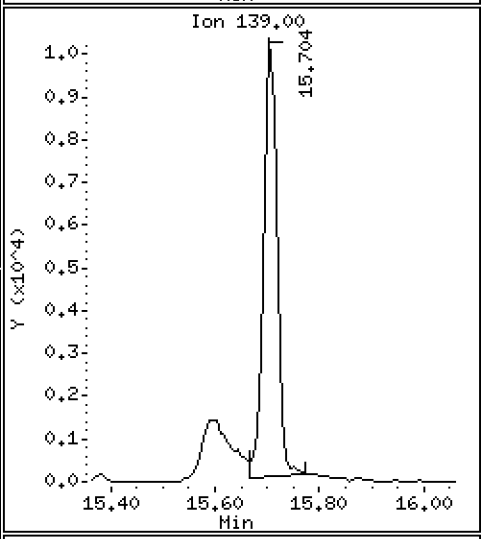
46 Dibenzofuran

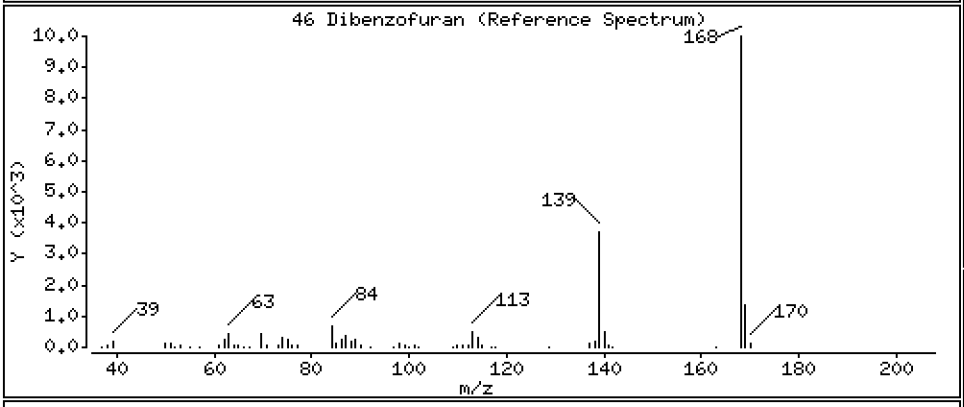
Concentration: 0.4927 ug/mL

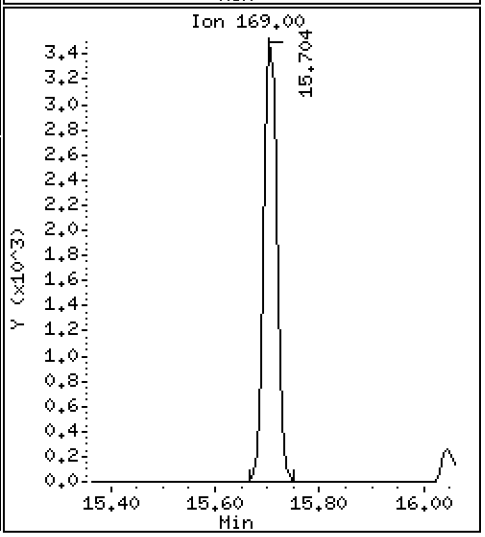


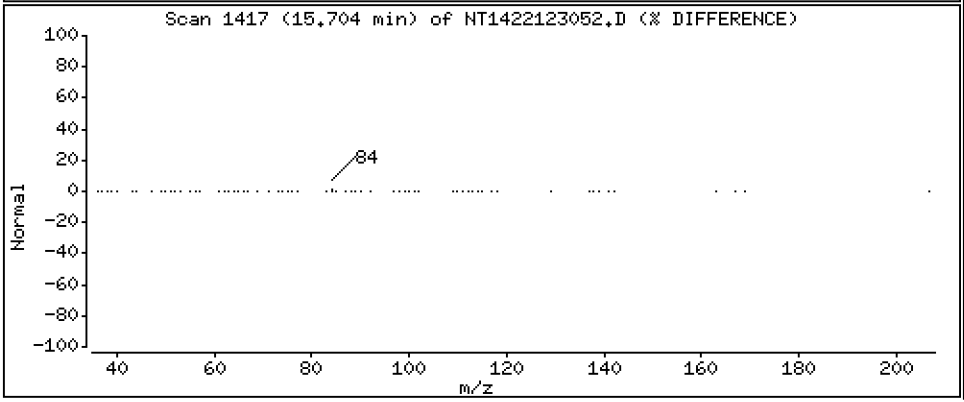












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

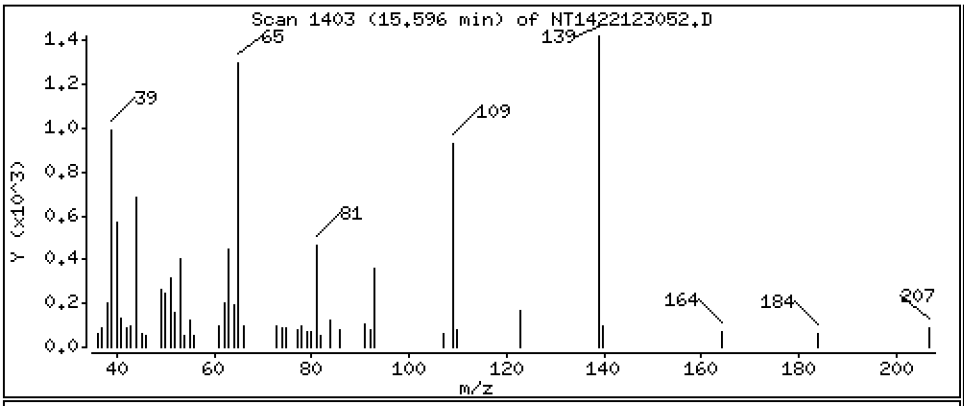
Operator: VTS

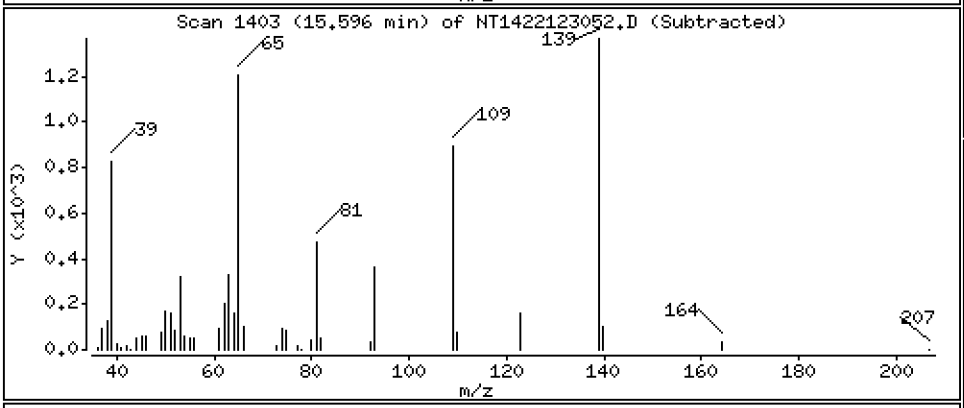
Column phase: ZB-5msi

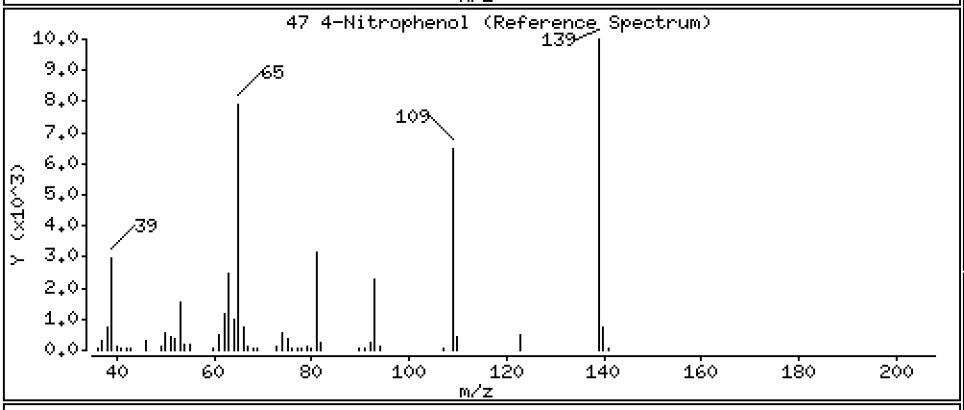
Column diameter: 0.25

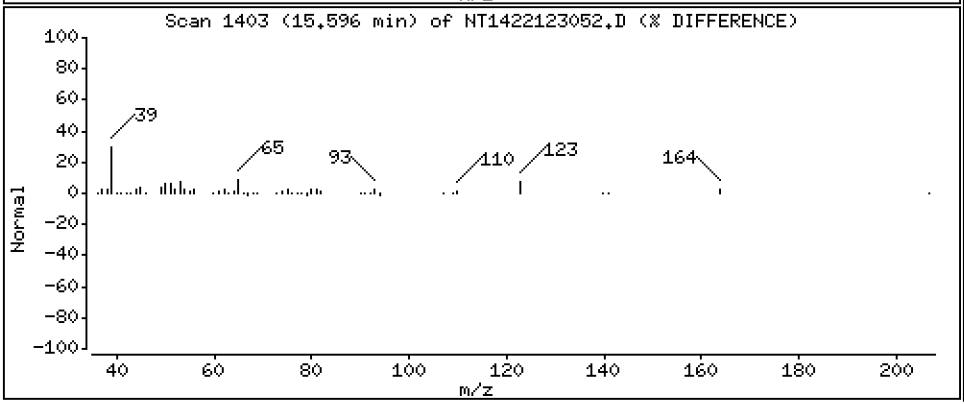
47 4-Nitrophenol

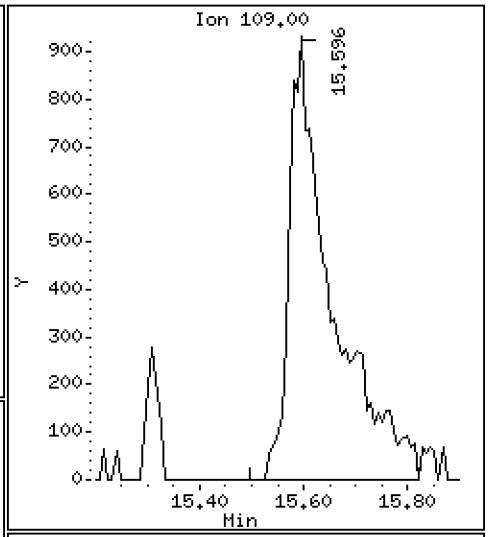
Concentration: 0.6475 ug/mL

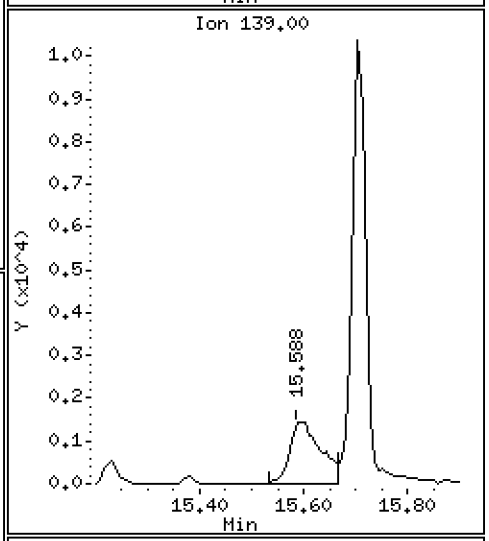


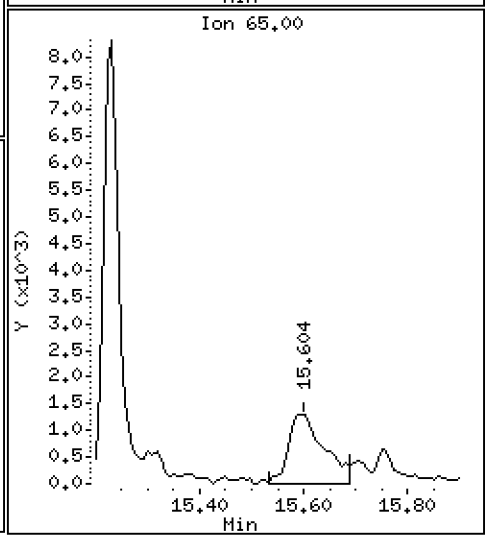












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

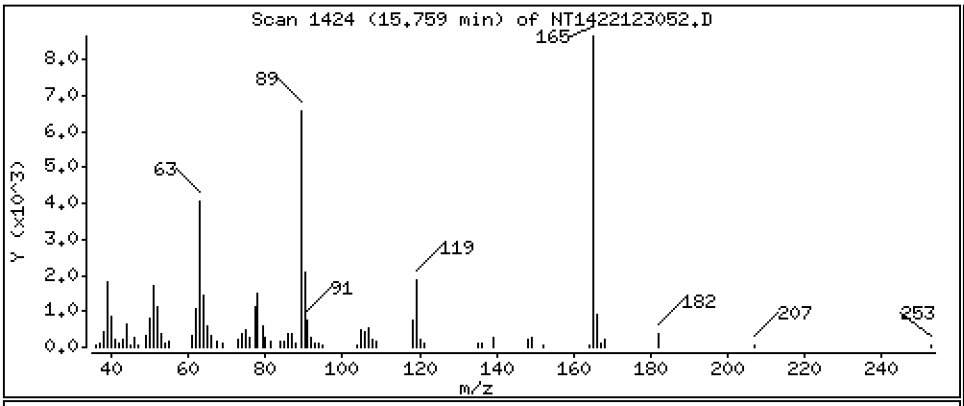
Operator: VTS

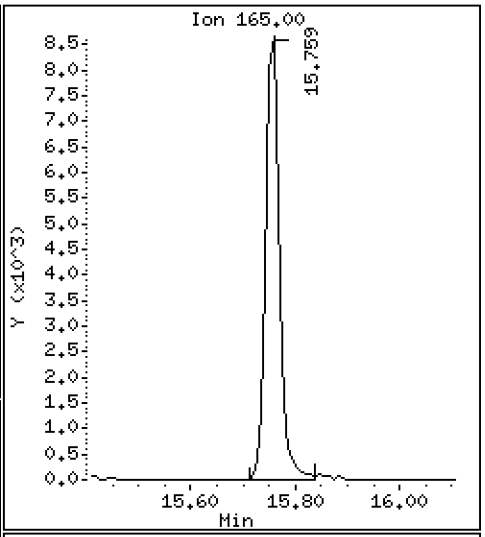
Column phase: ZB-5msi

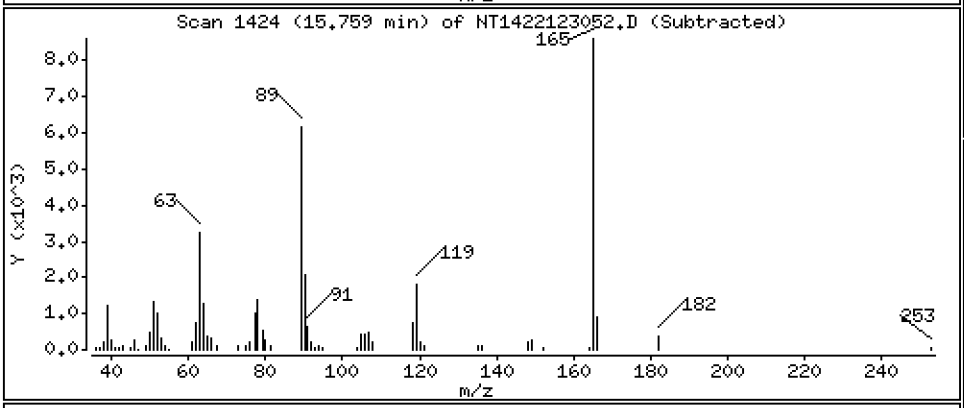
Column diameter: 0.25

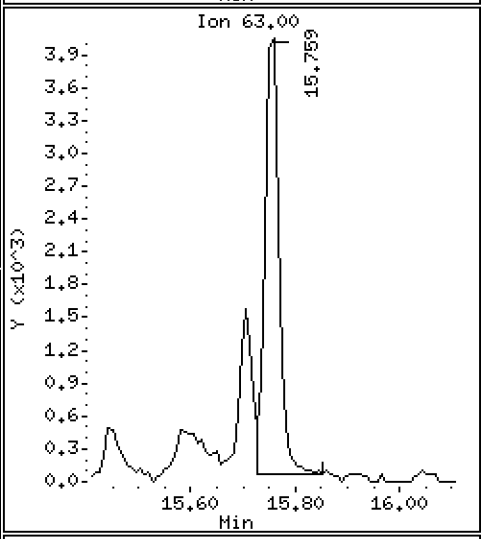
48 2,4-Dinitrotoluene

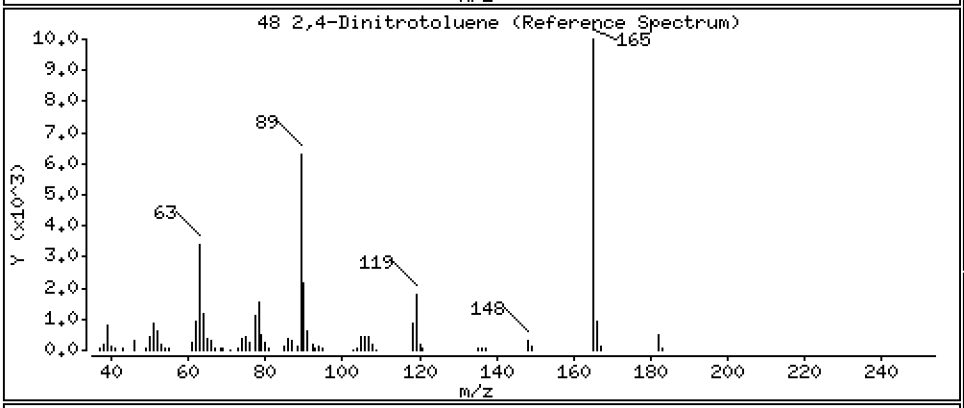
Concentration: 0.7788 ug/mL

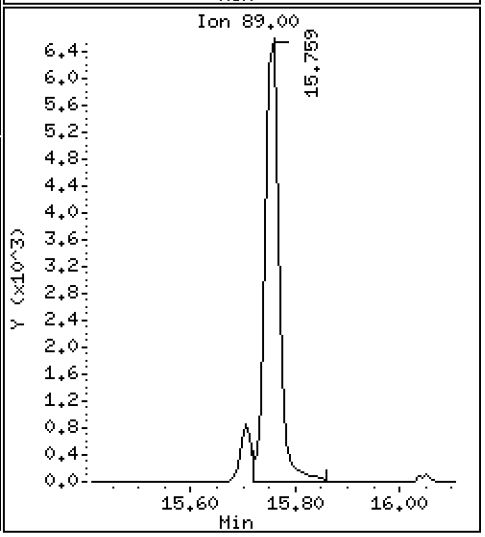


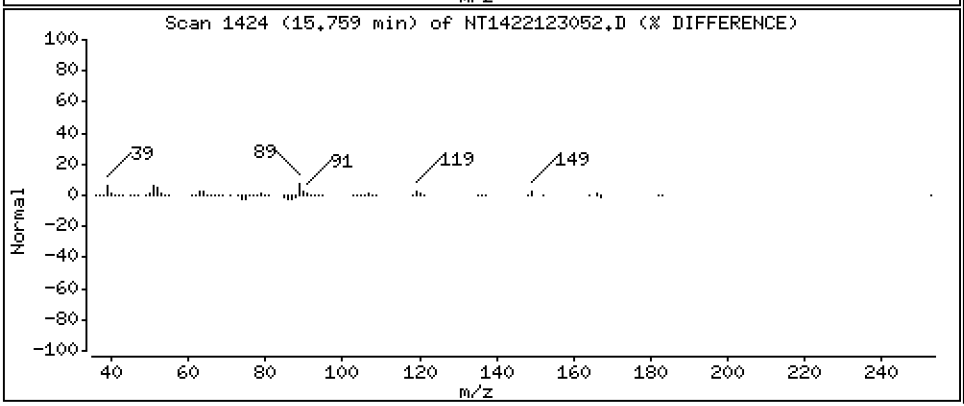












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

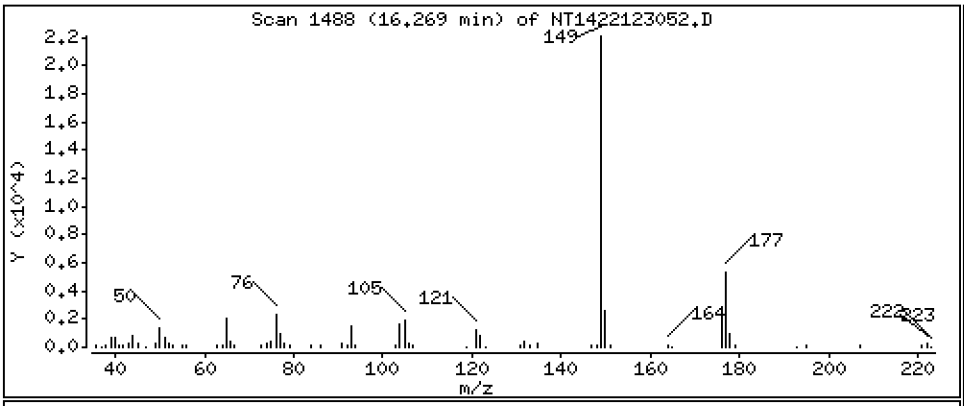
Operator: VTS

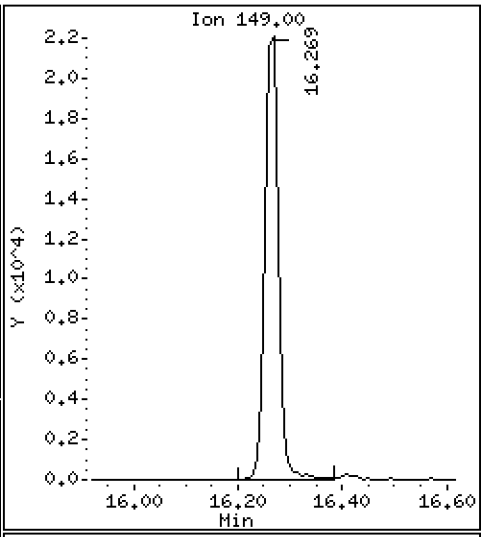
Column phase: ZB-5msi

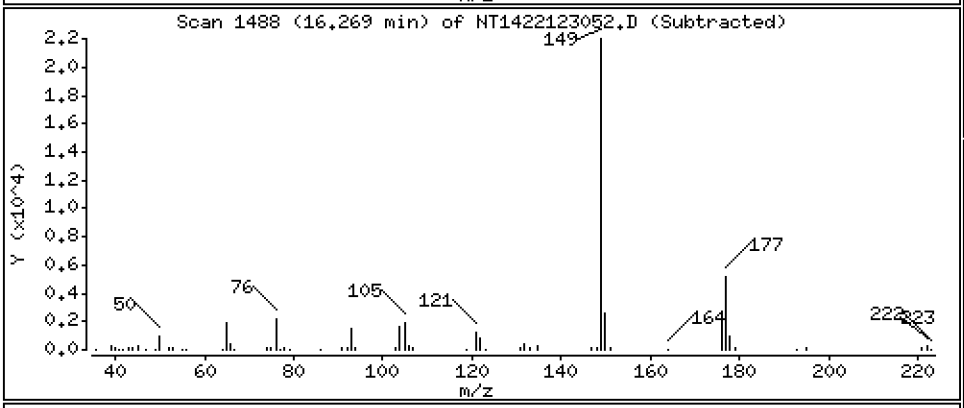
Column diameter: 0.25

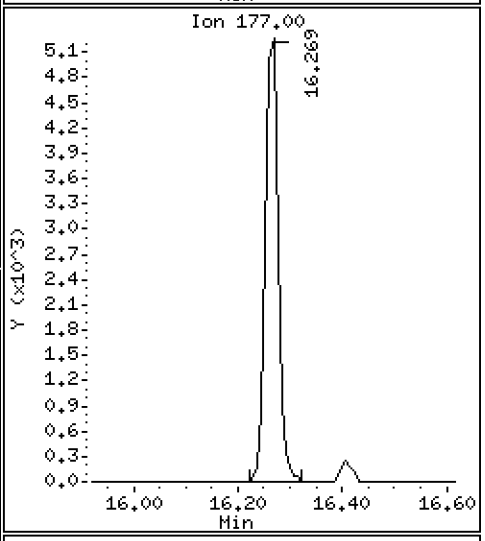
50 Diethylphthalate

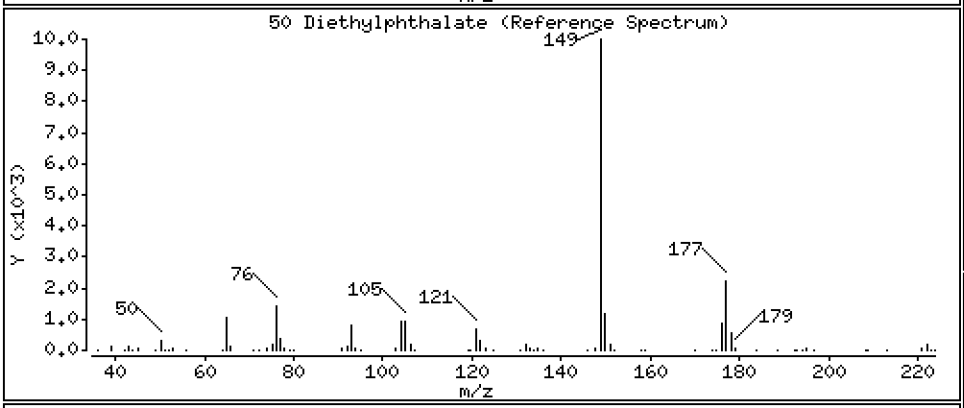
Concentration: 0.5374 ug/mL

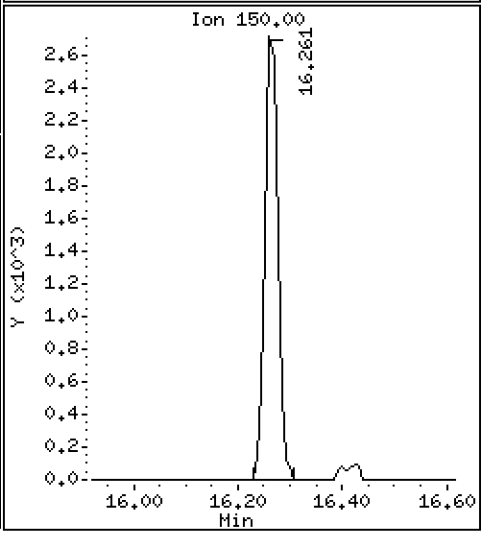


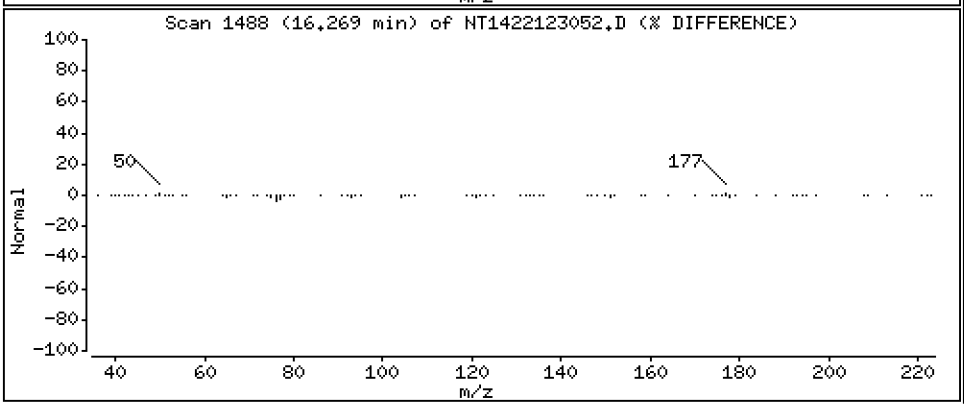












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

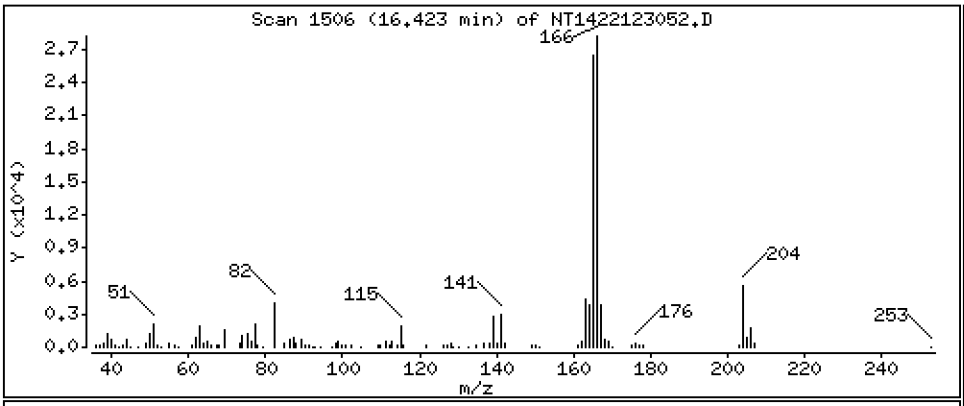
Operator: VTS

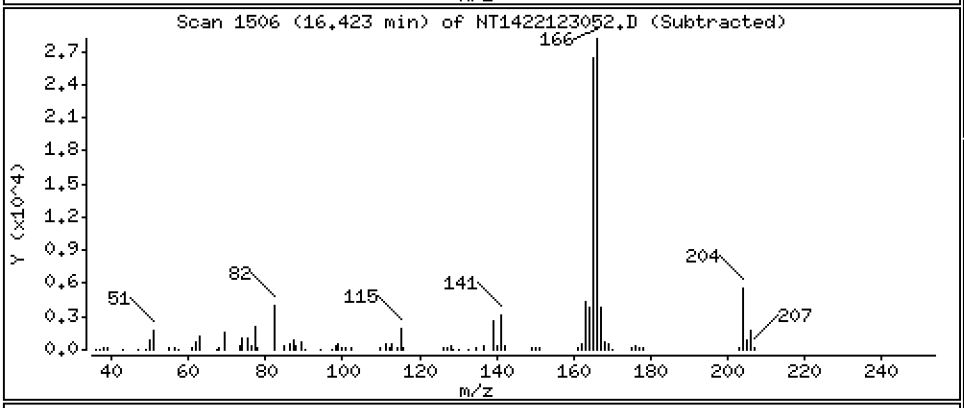
Column phase: ZB-5msi

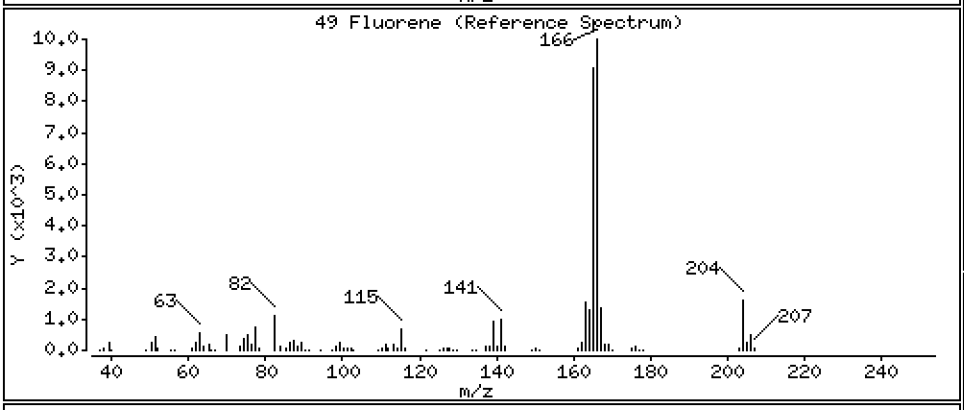
Column diameter: 0.25

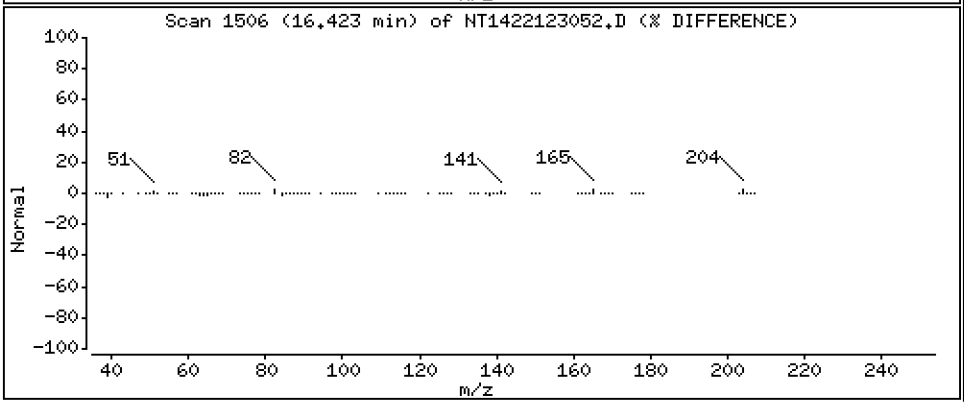
49 Fluorene

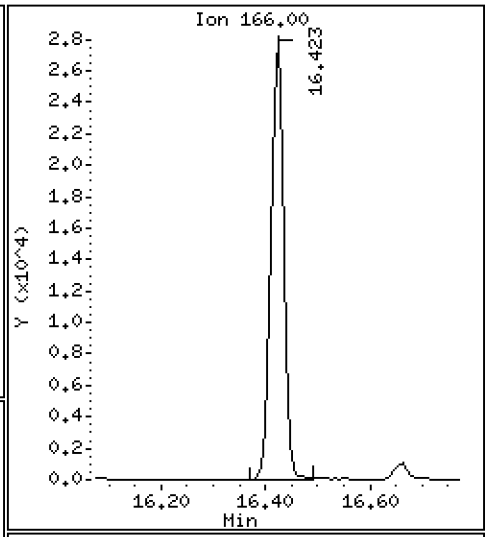
Concentration: 0.4836 ug/mL

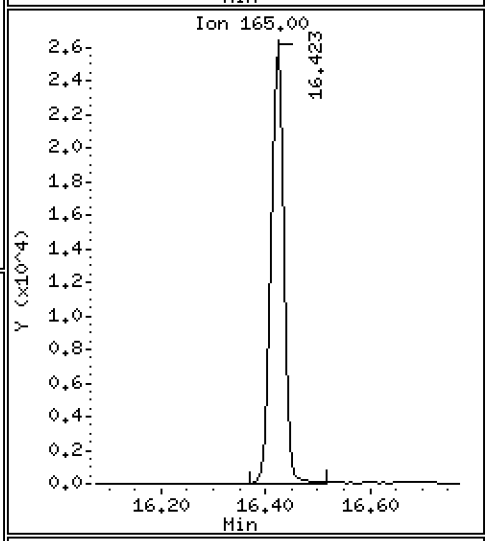


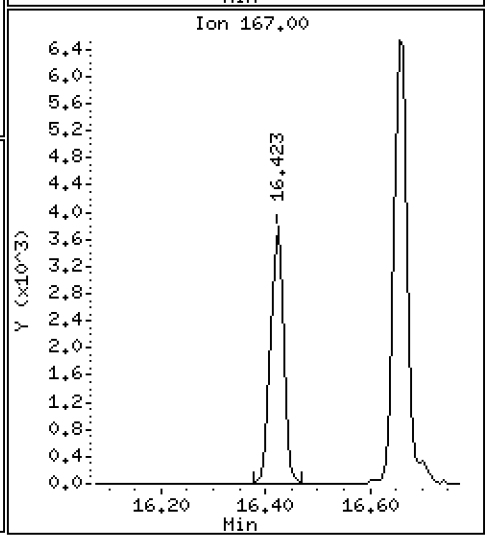












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

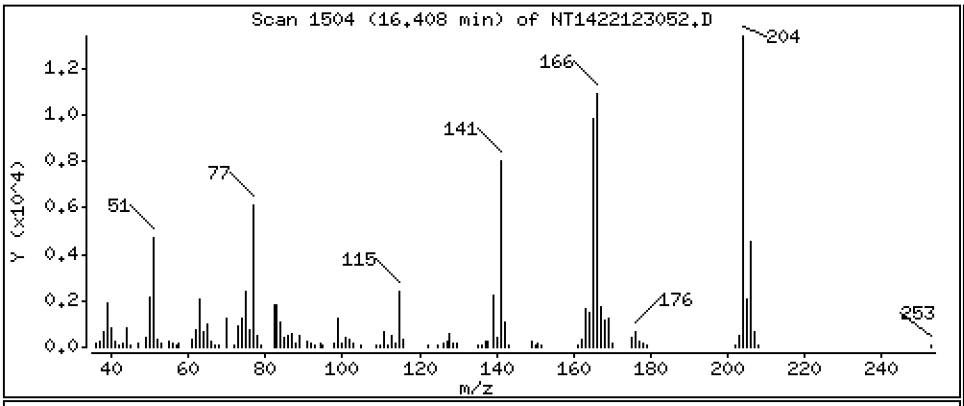
Operator: VTS

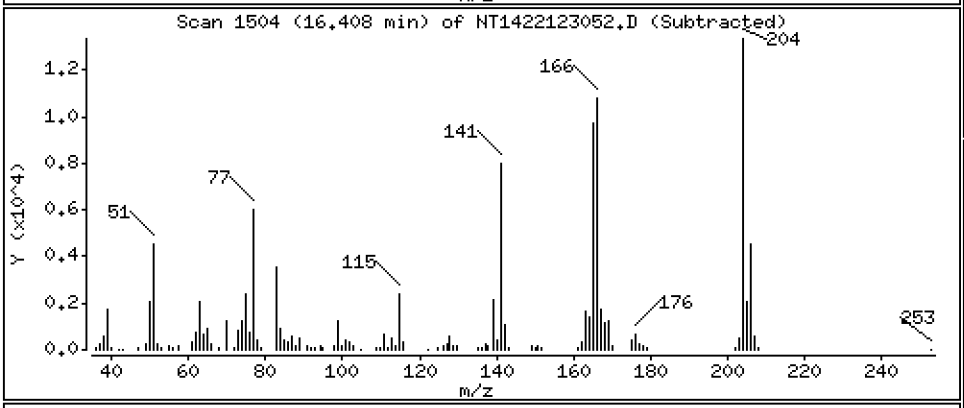
Column phase: ZB-5msi

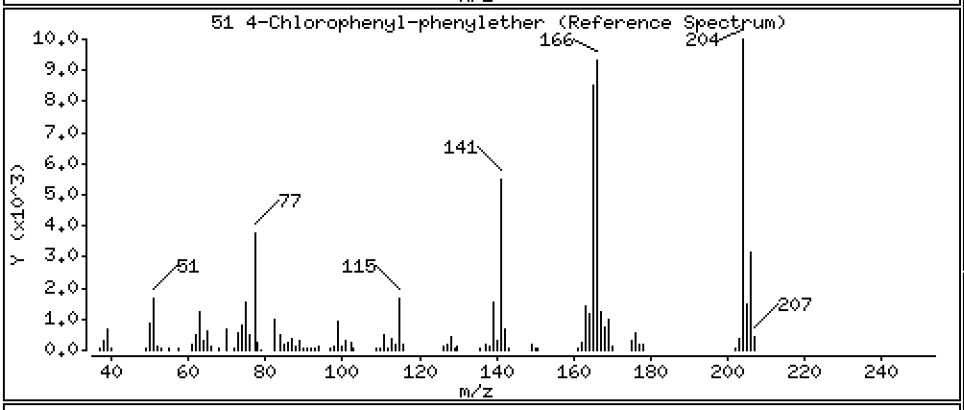
Column diameter: 0.25

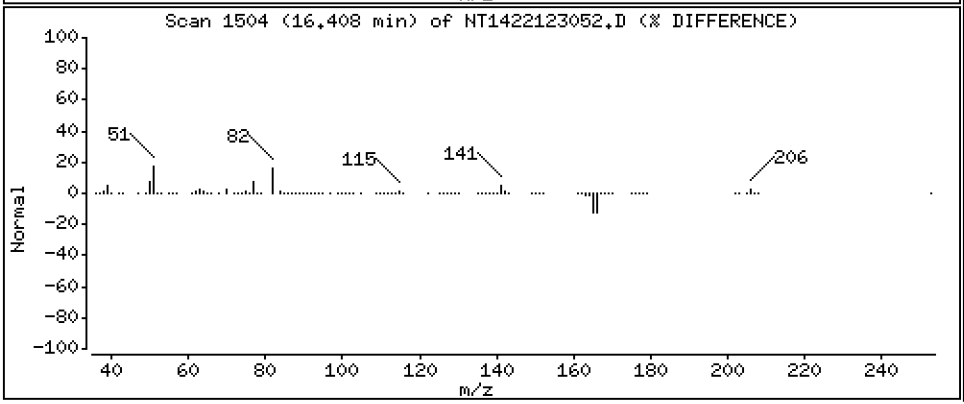
51 4-Chlorophenyl-phenylether

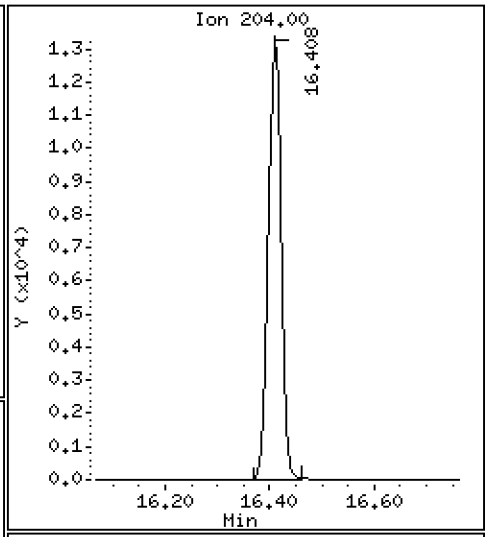
Concentration: 0.4585 ug/mL

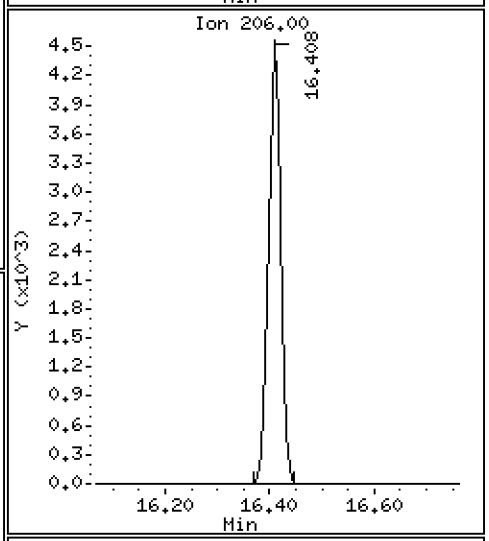


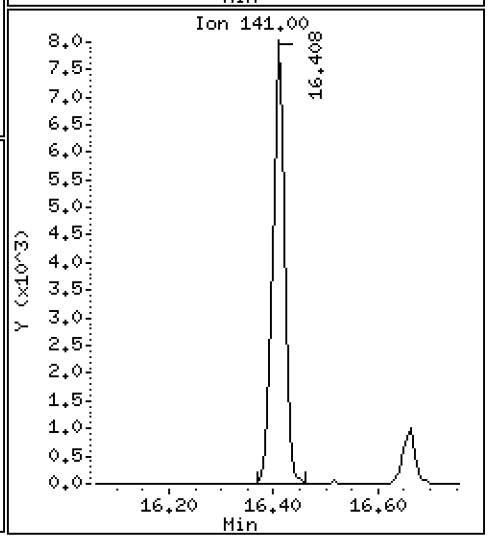












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

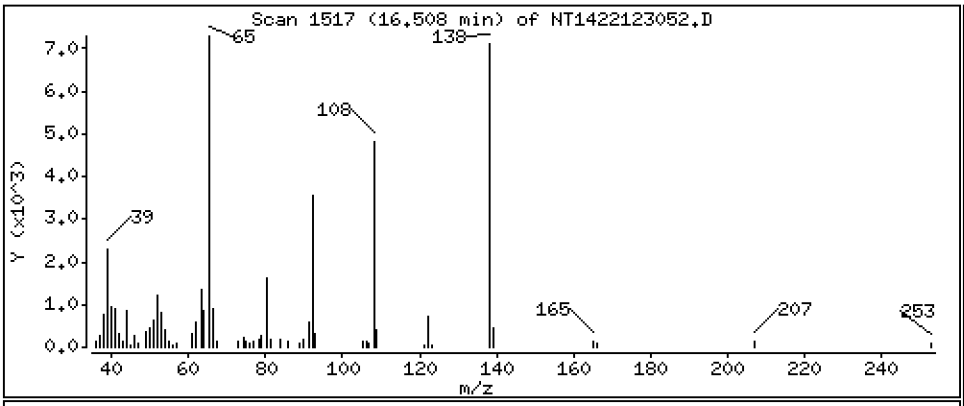
Operator: VTS

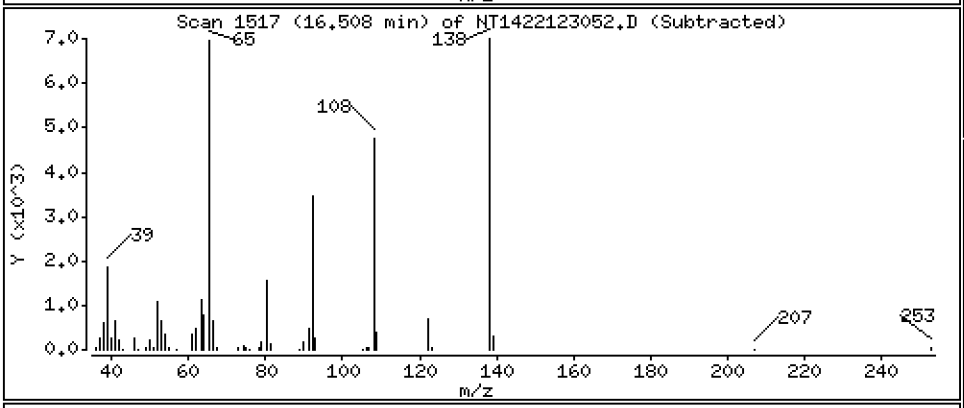
Column phase: ZB-5msi

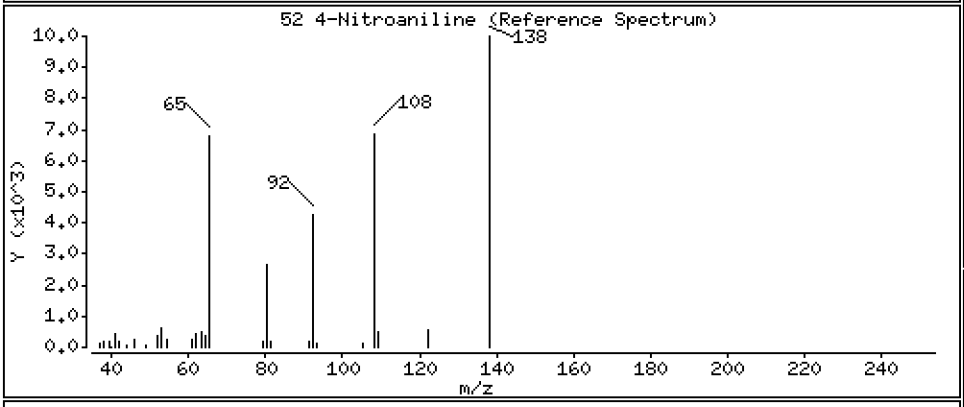
Column diameter: 0.25

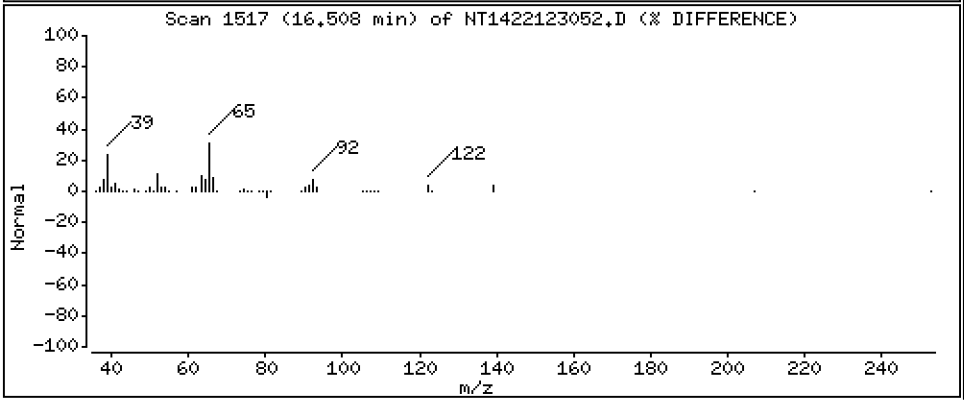
52 4-Nitroaniline

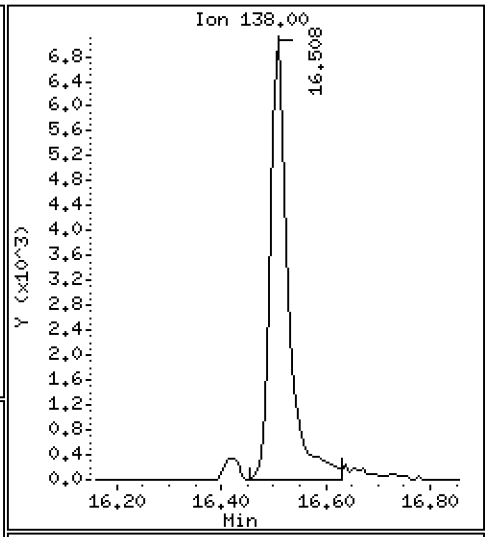
Concentration: 0.7926 ug/mL

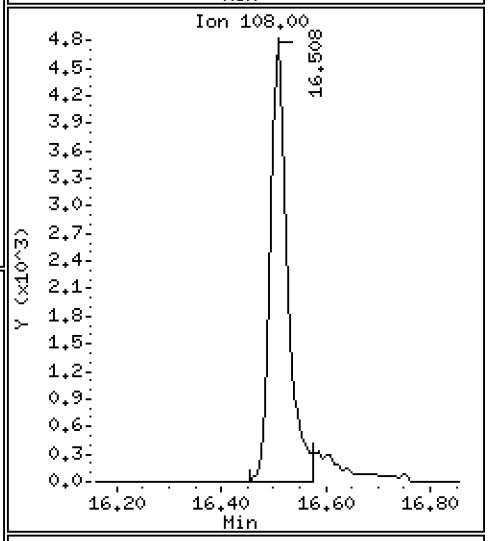


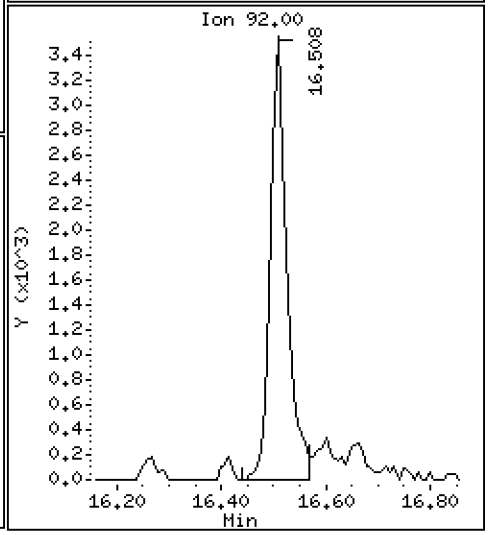












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

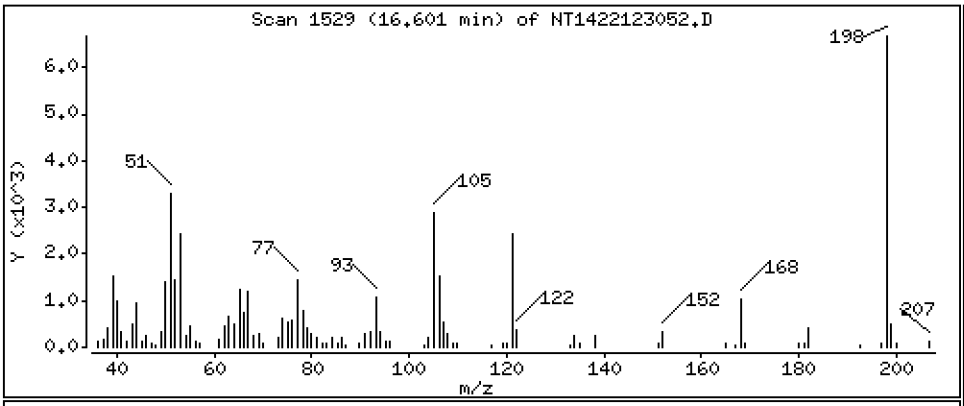
Operator: VTS

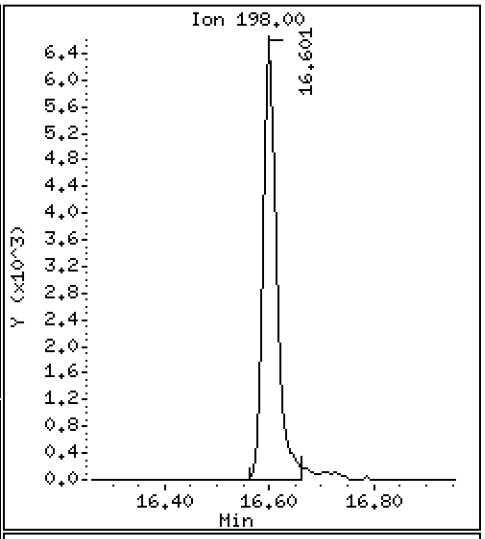
Column phase: ZB-5msi

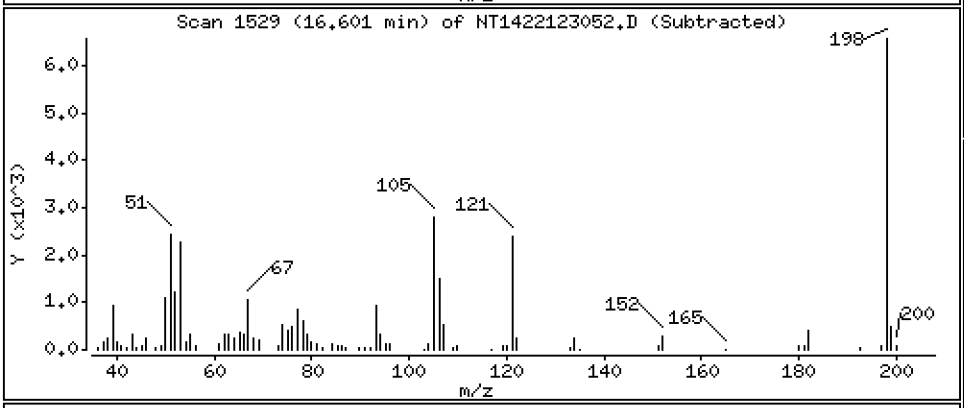
Column diameter: 0.25

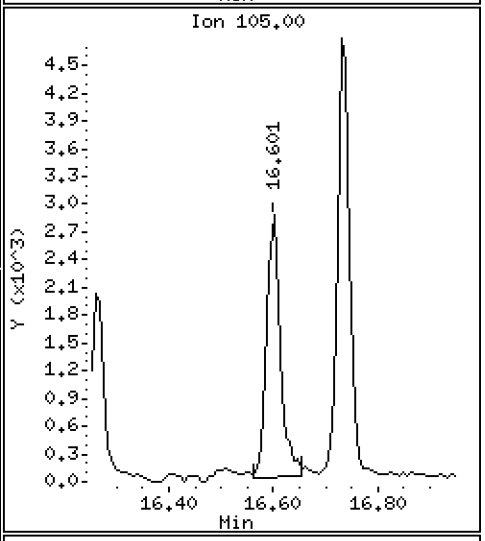
53 4,6-Dinitro-2-methylphenol

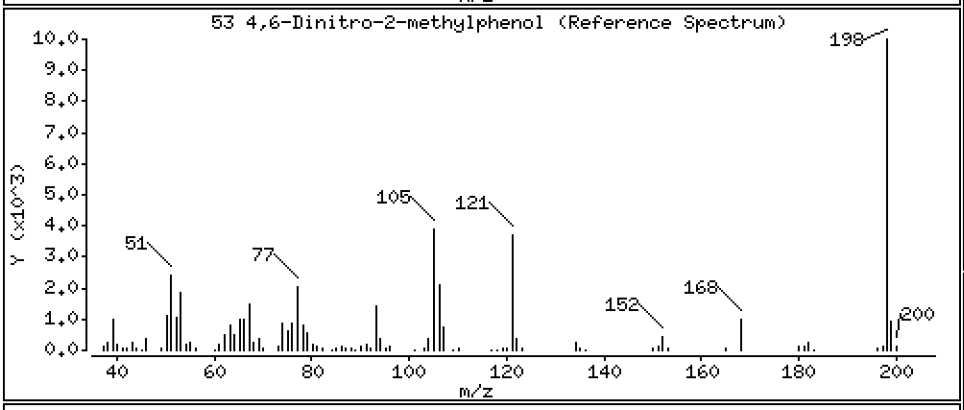
Concentration: 0.7566 ug/mL

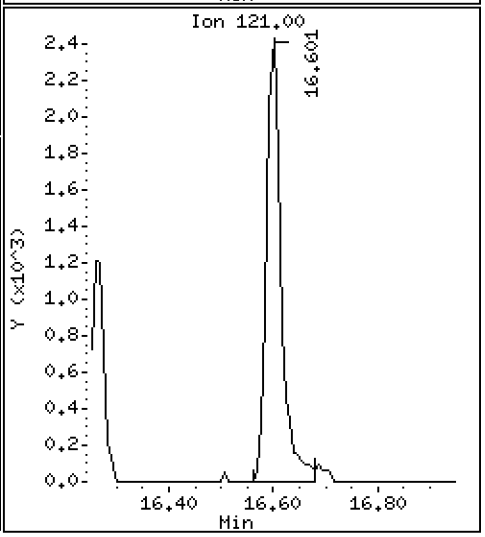


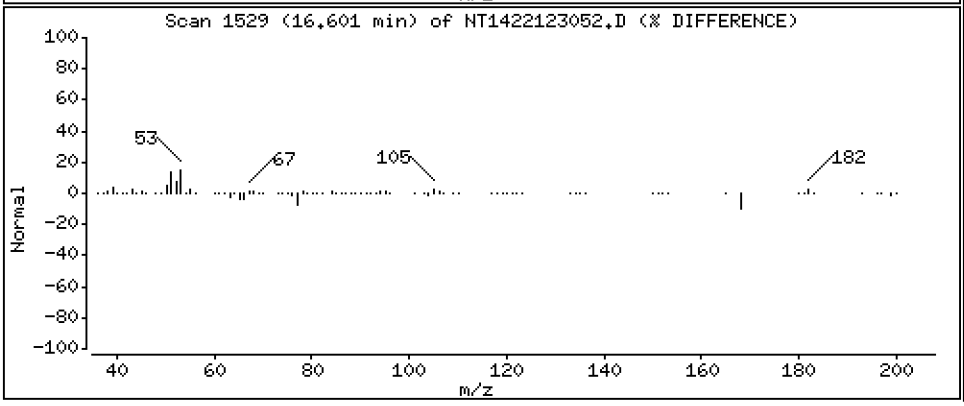












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

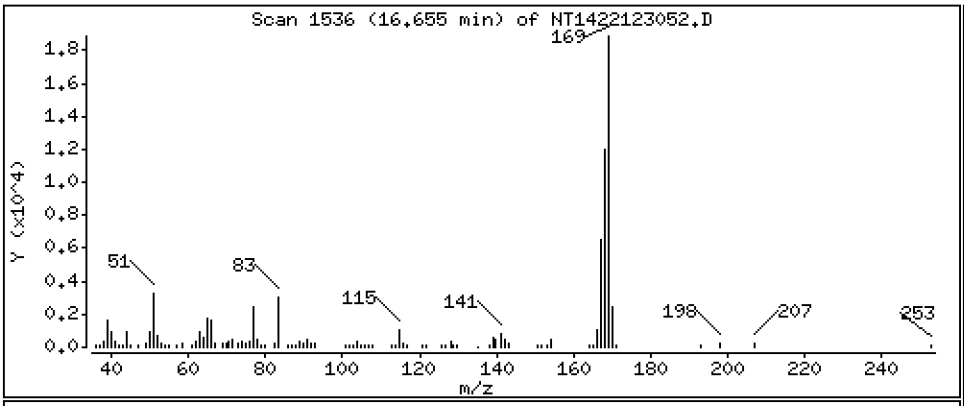
Operator: VTS

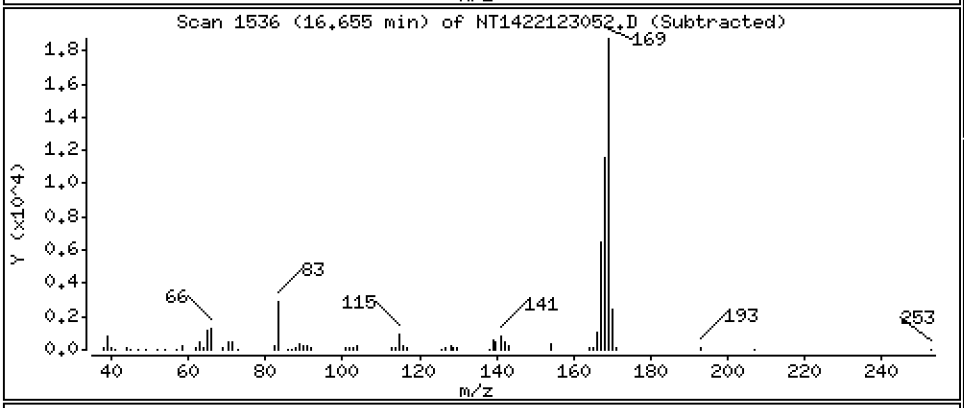
Column phase: ZB-5msi

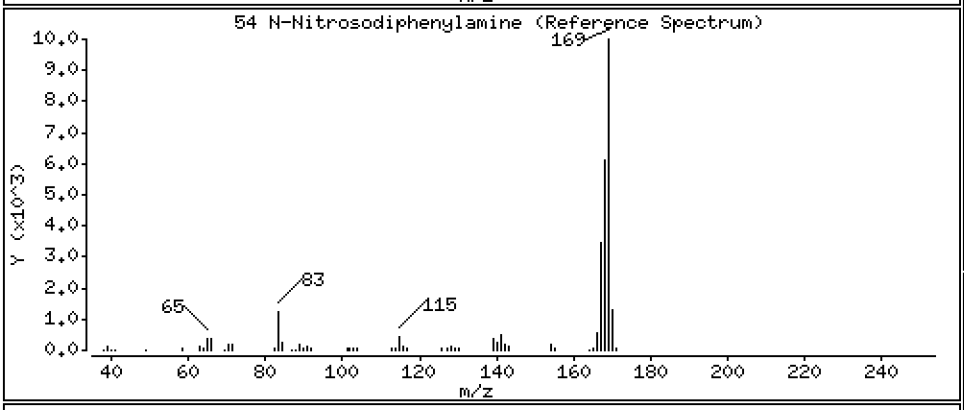
Column diameter: 0.25

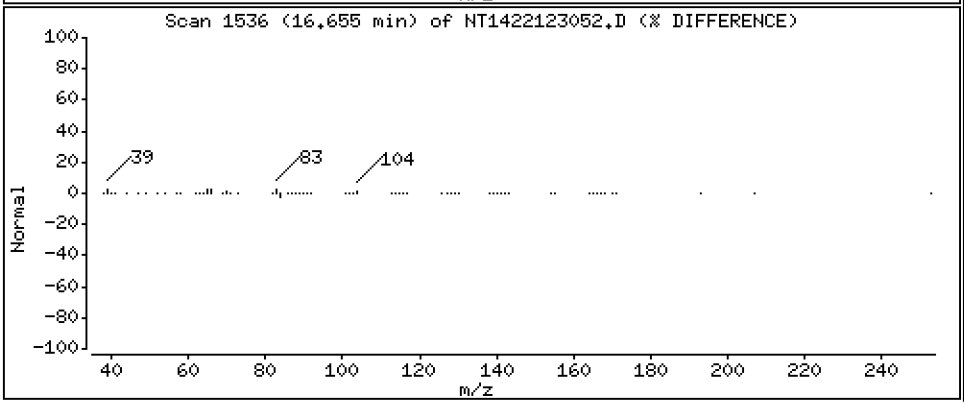
54 N-Nitrosodiphenylamine

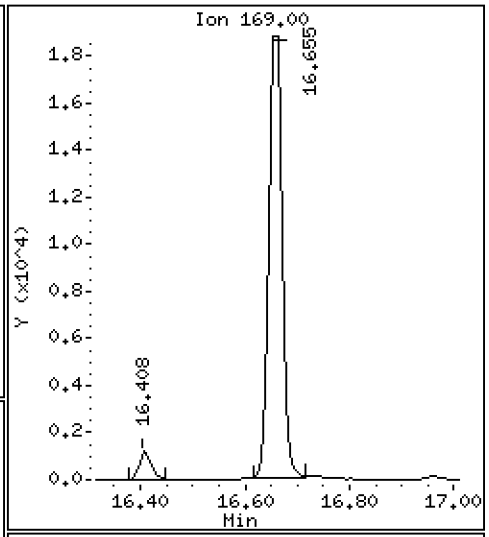
Concentration: 0.5113 ug/mL

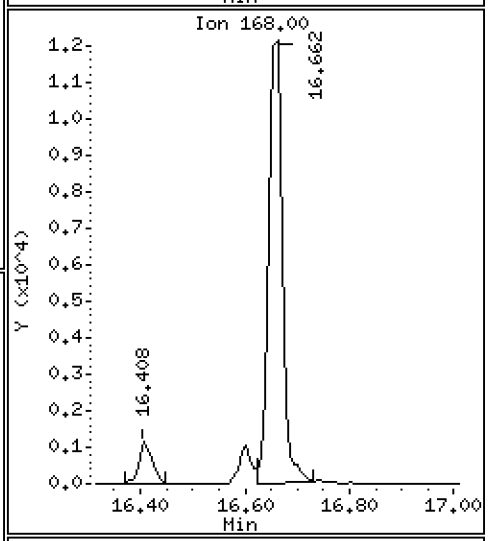


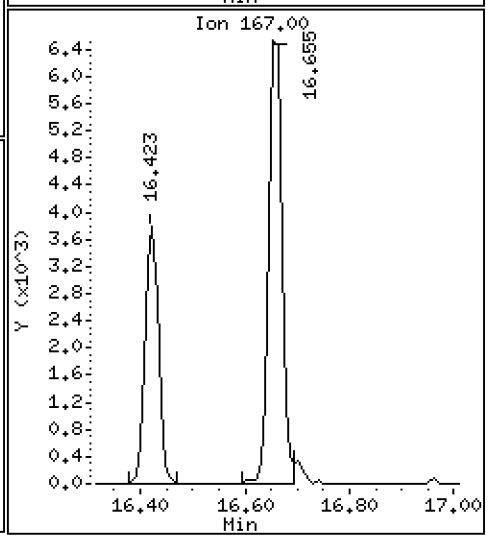












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

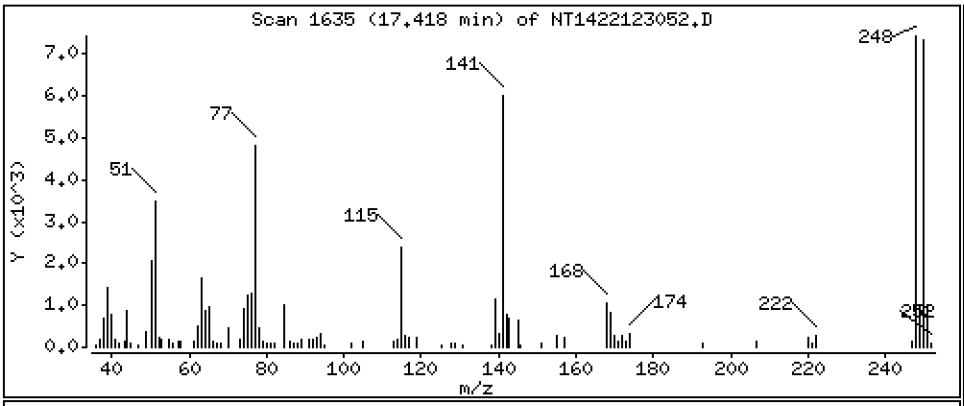
Operator: VTS

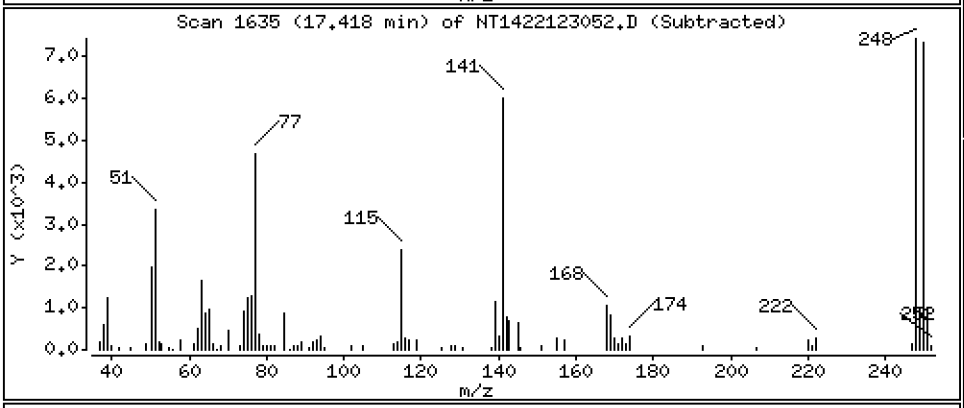
Column phase: ZB-5msi

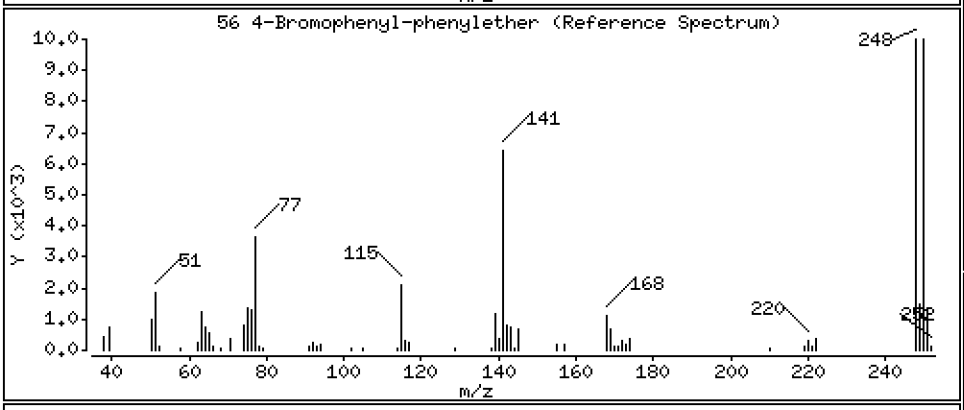
Column diameter: 0.25

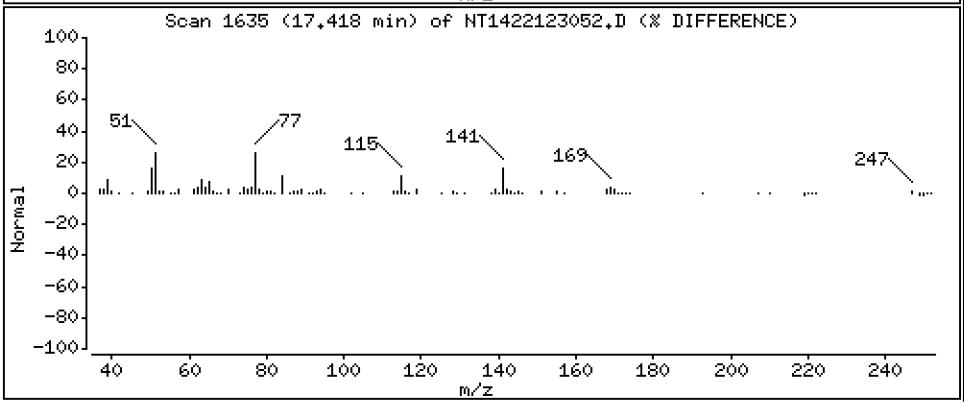
56 4-Bromophenyl-phenylether

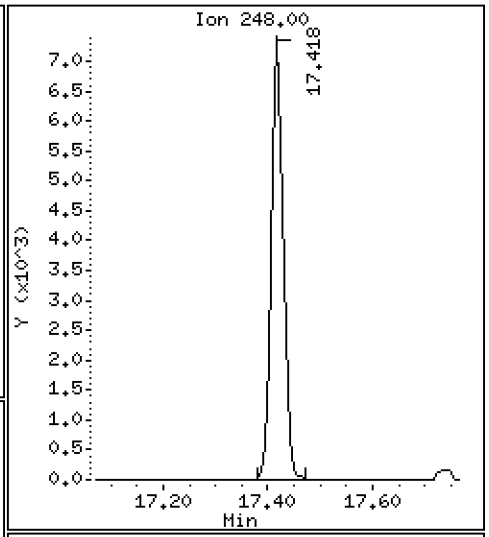
Concentration: 0.4903 ug/mL

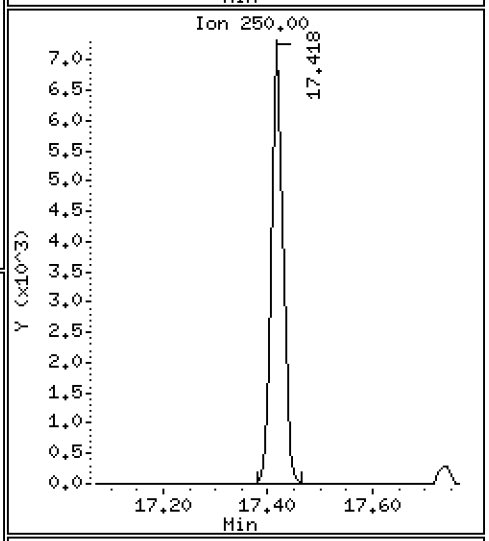


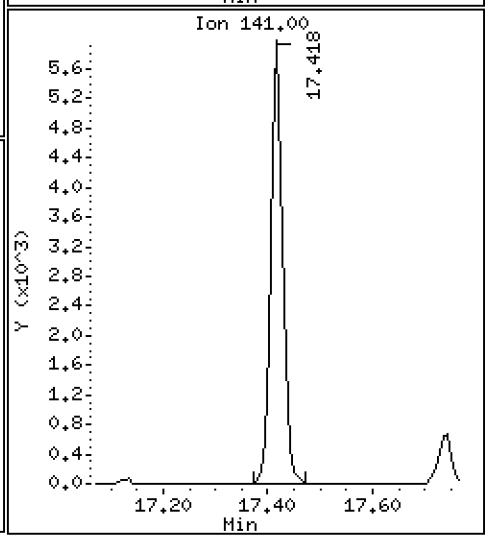












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

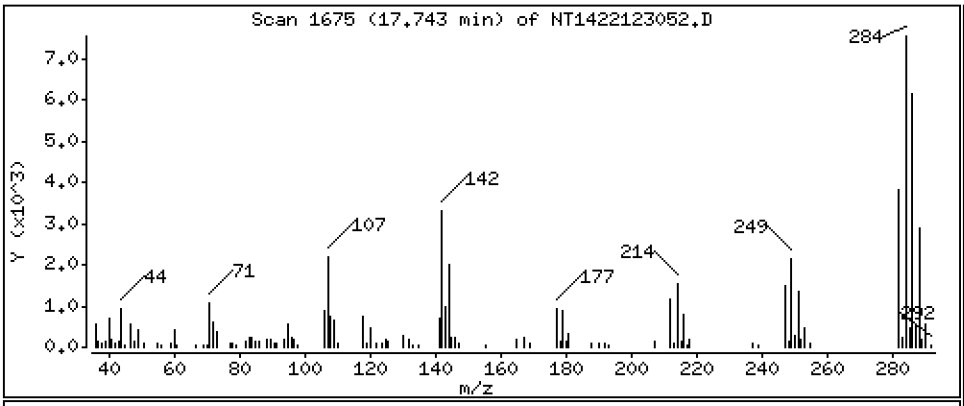
Operator: VTS

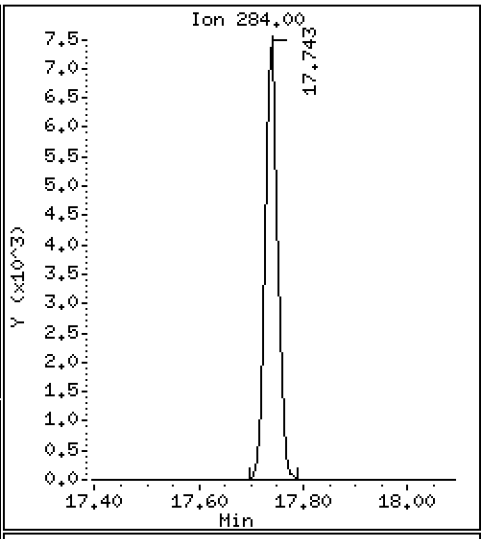
Column phase: ZB-5msi

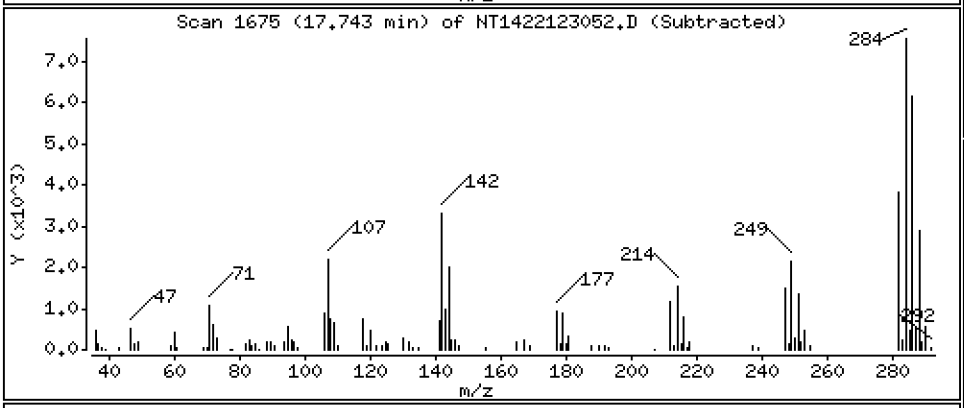
Column diameter: 0.25

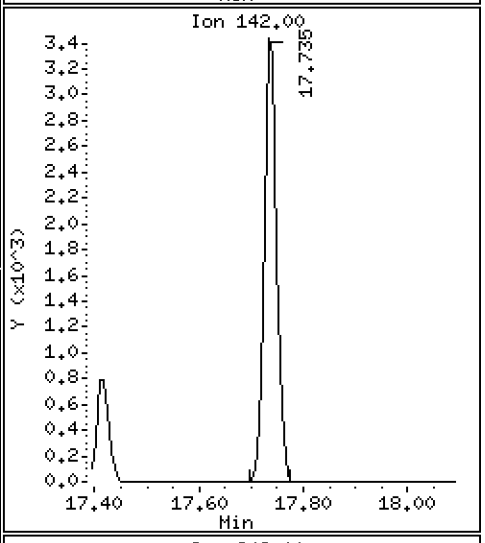
57 Hexachlorobenzene

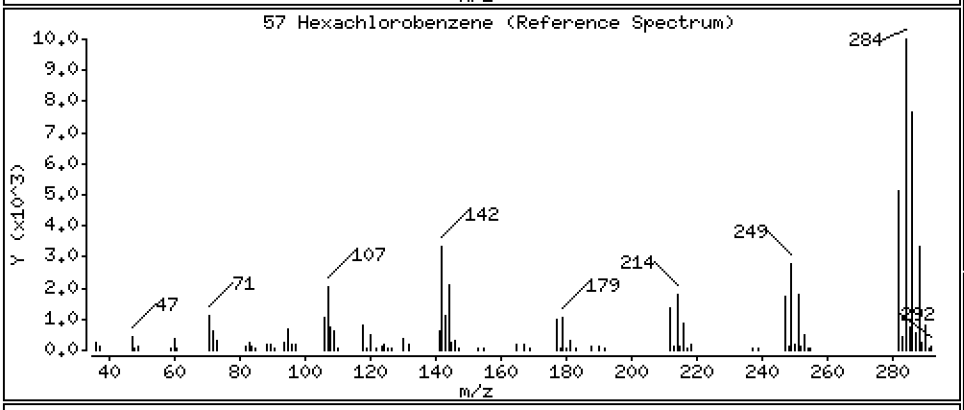
Concentration: 0.4900 ug/mL

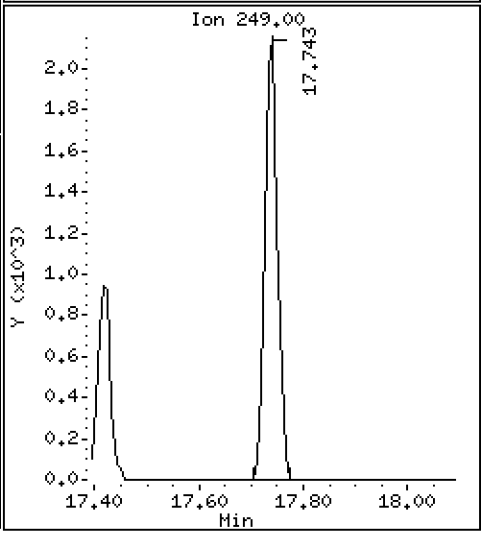


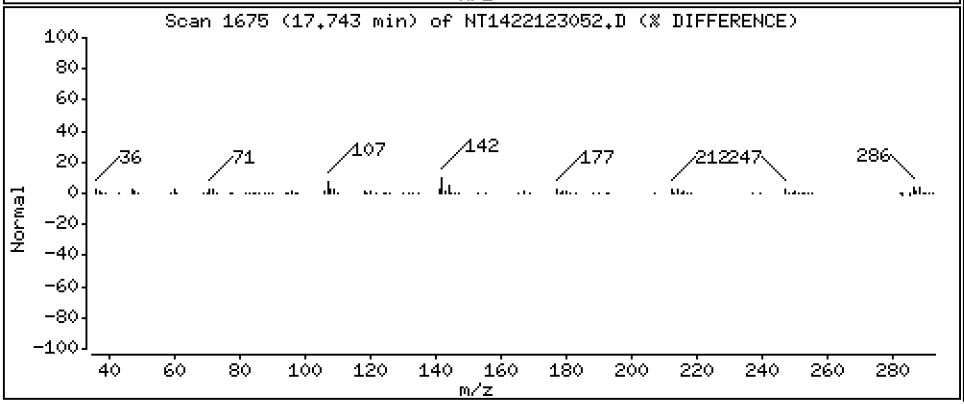












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

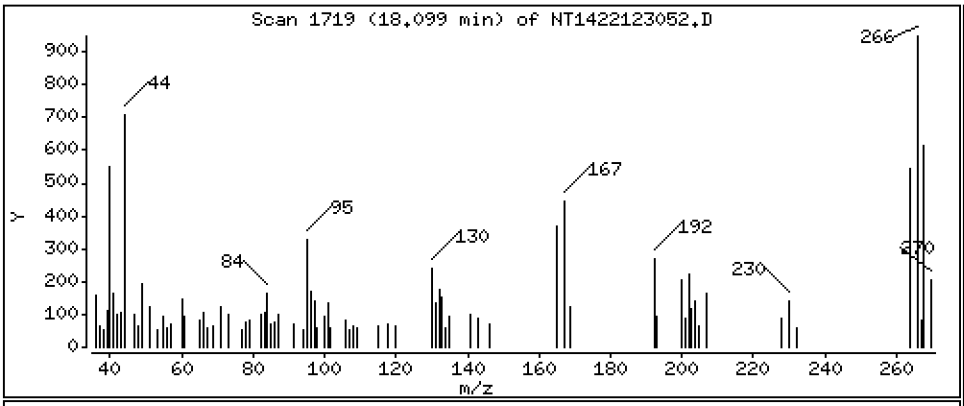
Operator: VTS

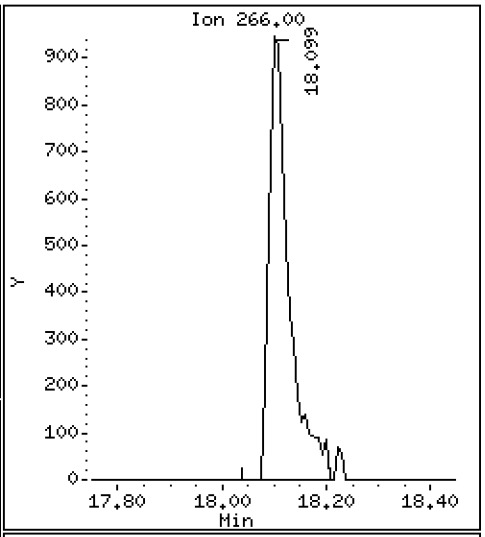
Column phase: ZB-5msi

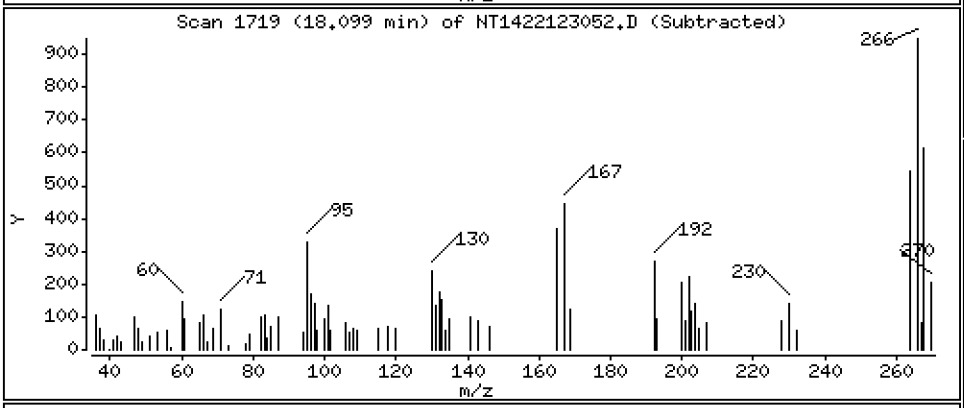
Column diameter: 0.25

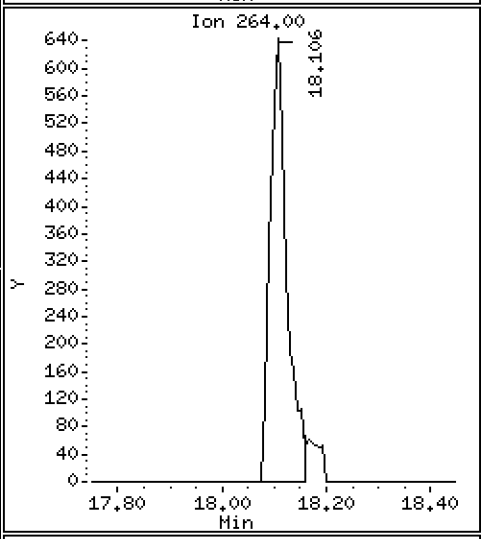
58 Pentachlorophenol

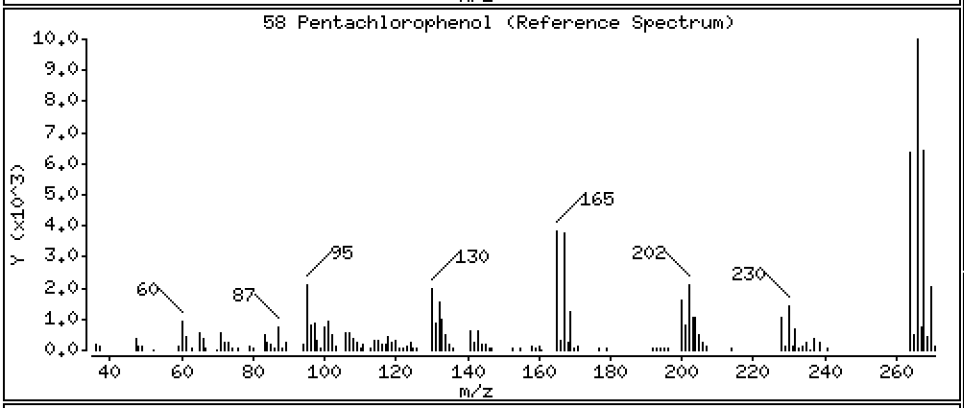
Concentration: 0.2250 ug/mL

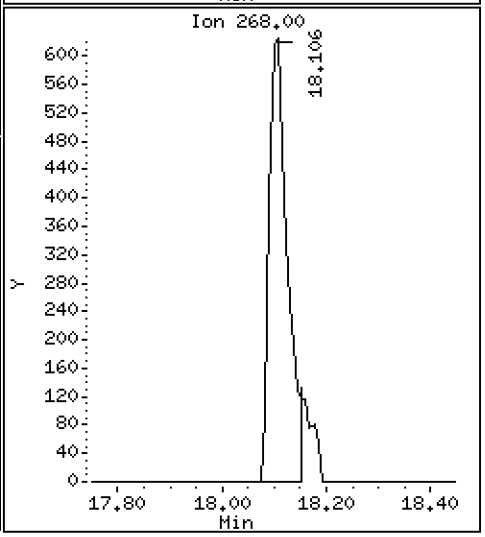


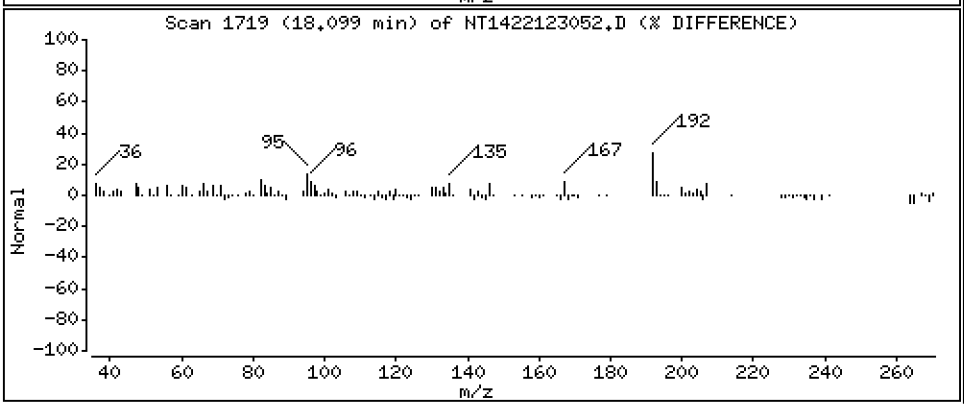












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

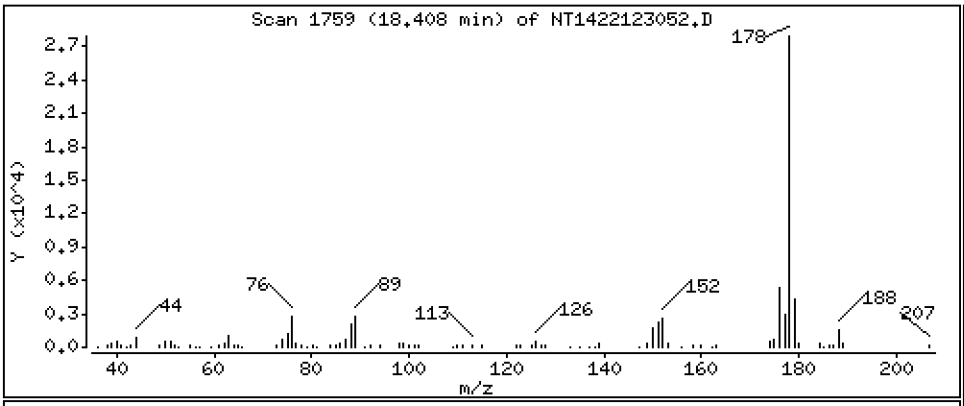
Operator: VTS

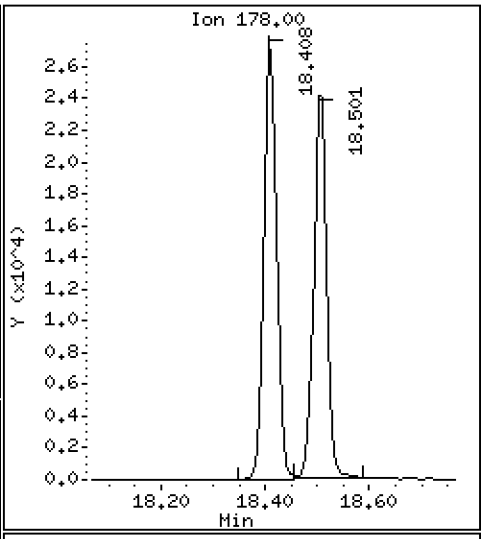
Column phase: ZB-5msi

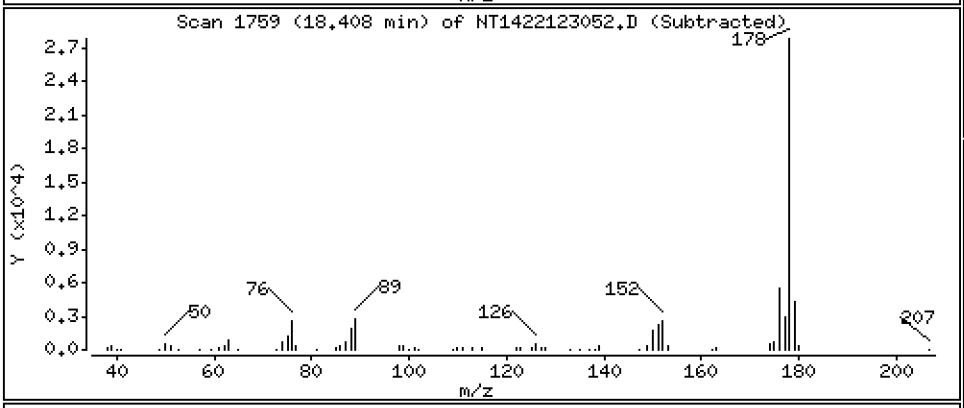
Column diameter: 0.25

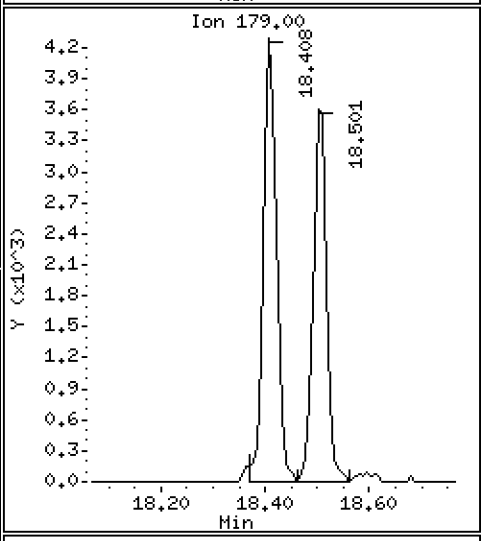
60 Phenanthrene

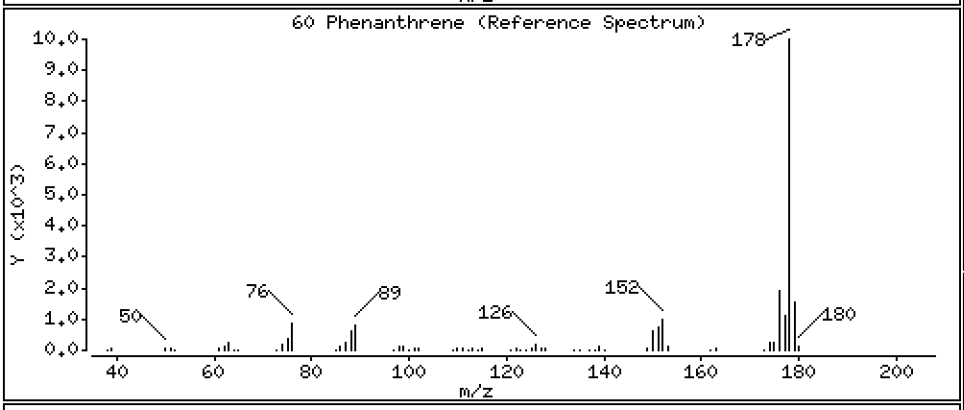
Concentration: 0.4886 ug/mL

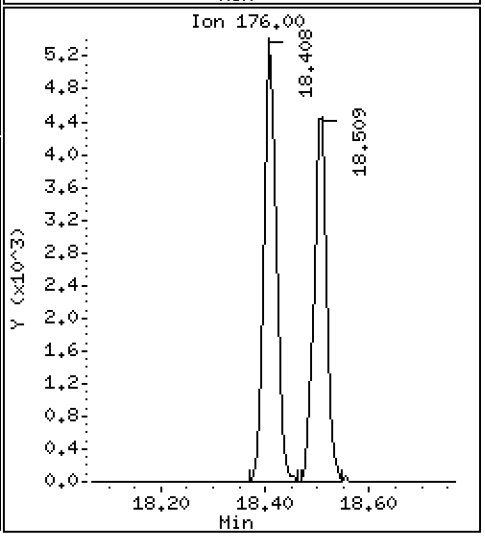


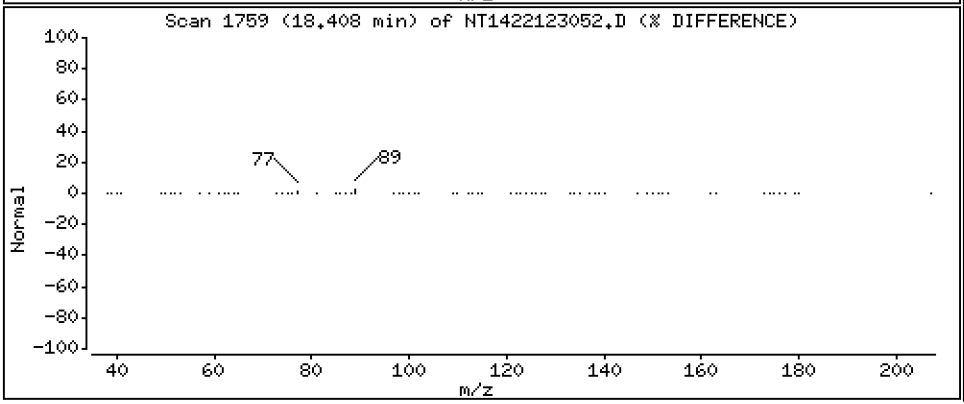












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

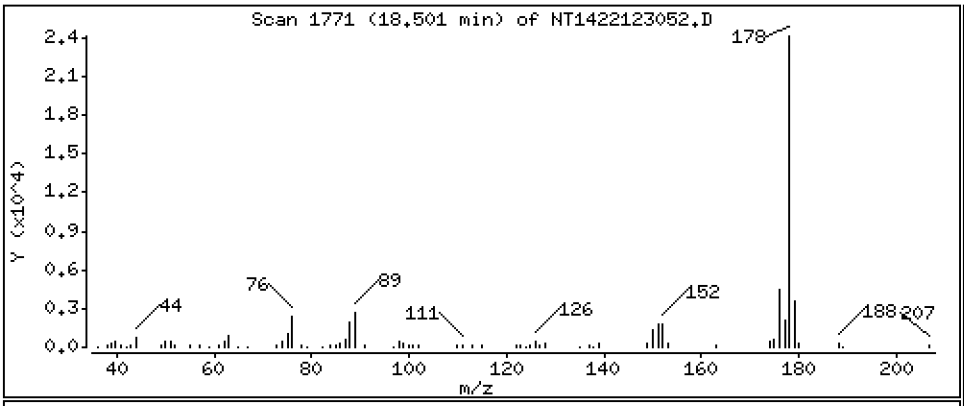
Operator: VTS

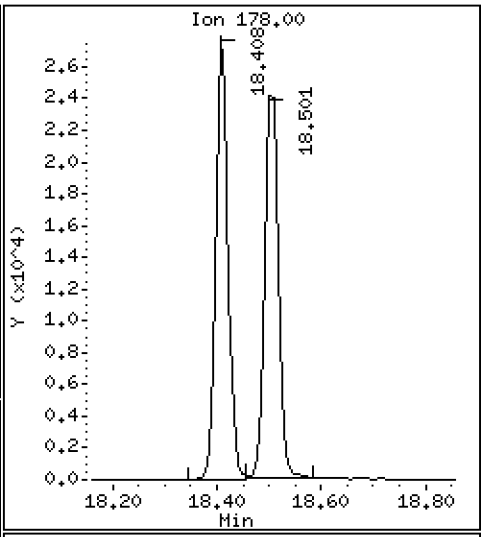
Column phase: ZB-5msi

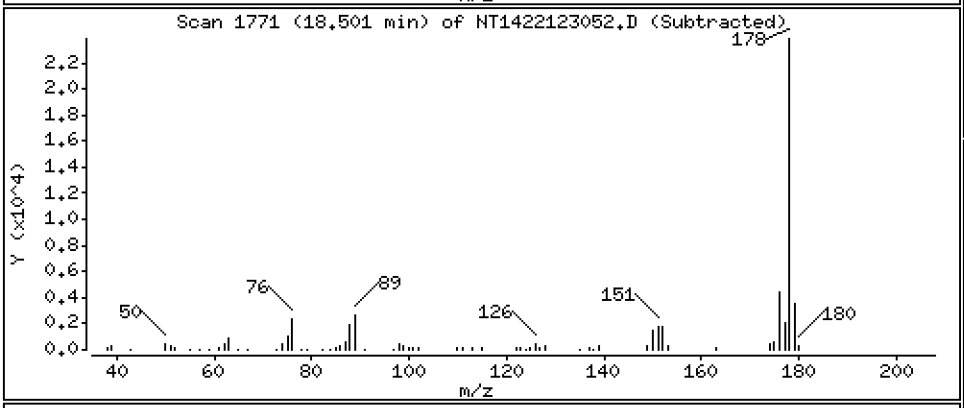
Column diameter: 0.25

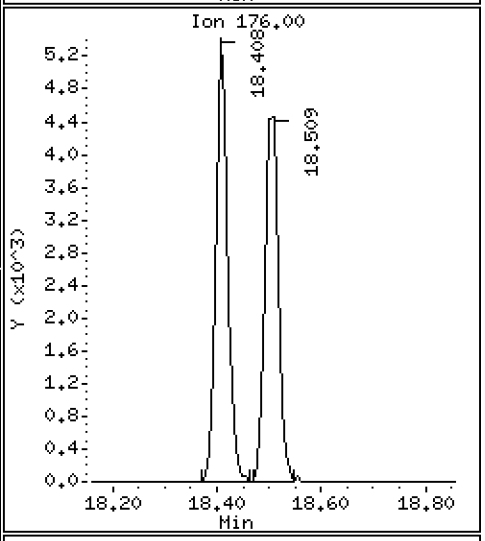
61 Anthracene

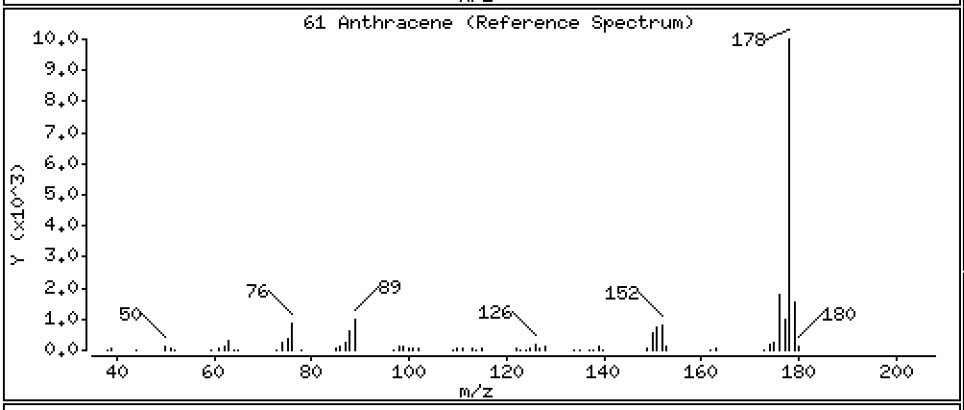
Concentration: 0.4683 ug/mL

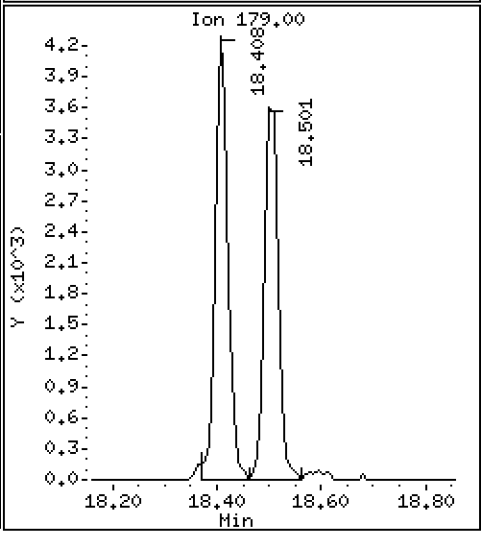


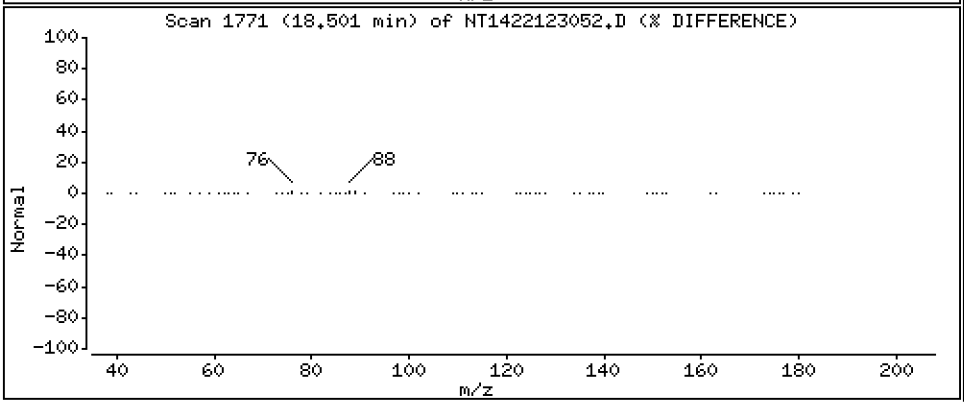












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

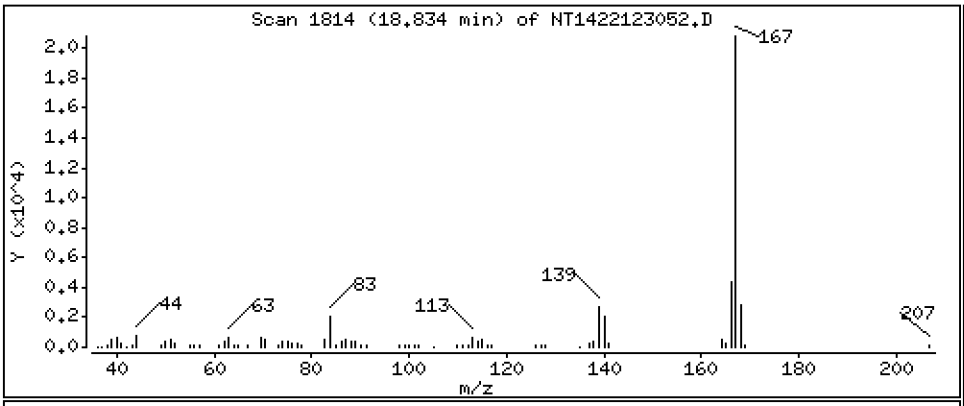
Operator: VTS

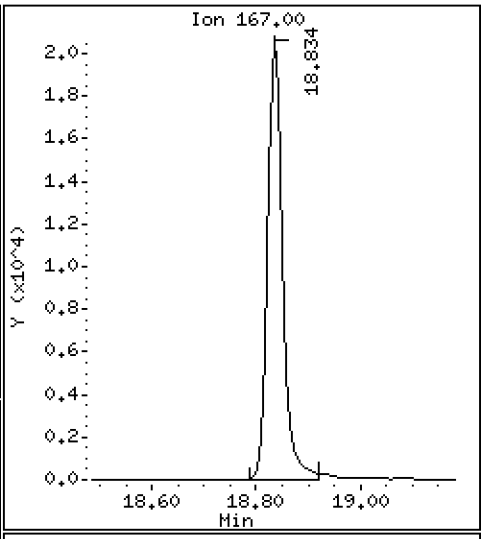
Column phase: ZB-5msi

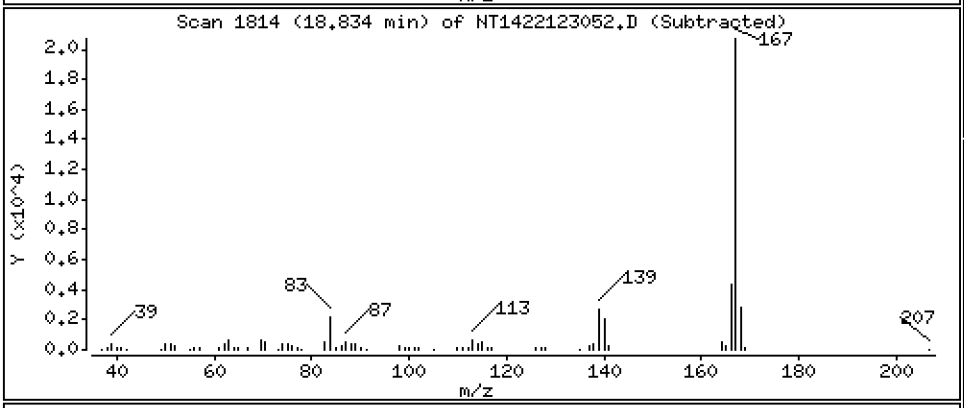
Column diameter: 0.25

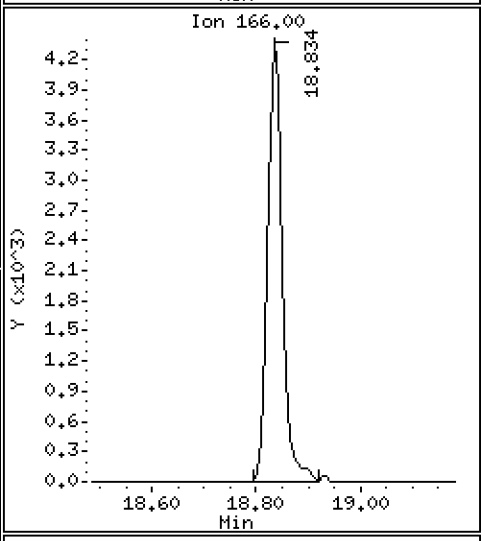
62 Carbazole

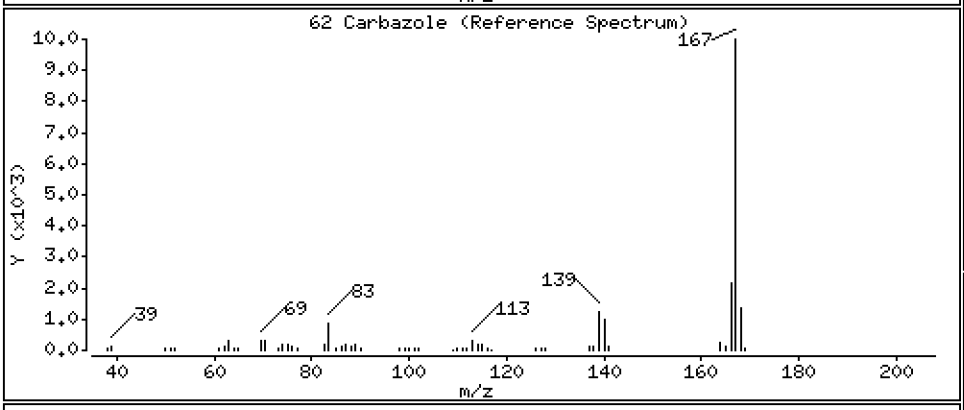
Concentration: 0.4608 ug/mL

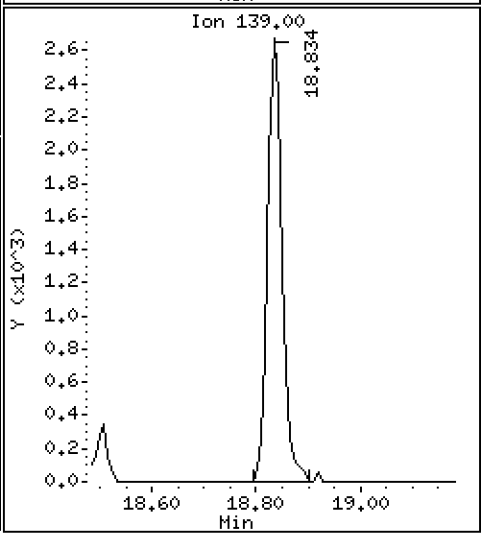


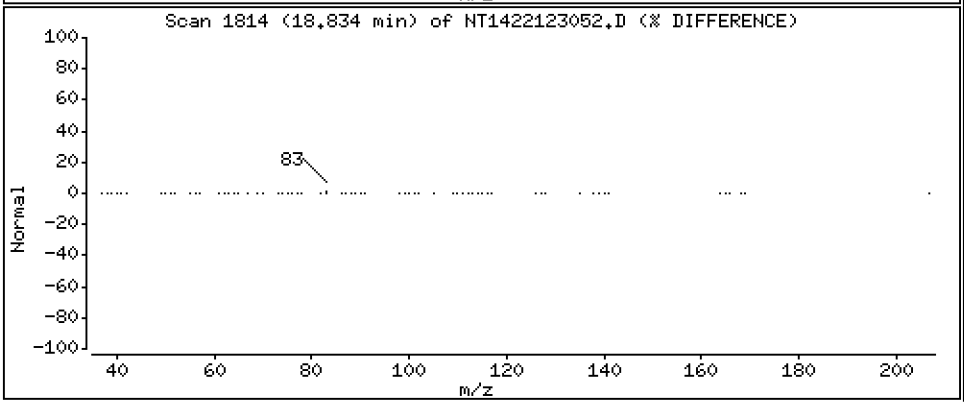












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

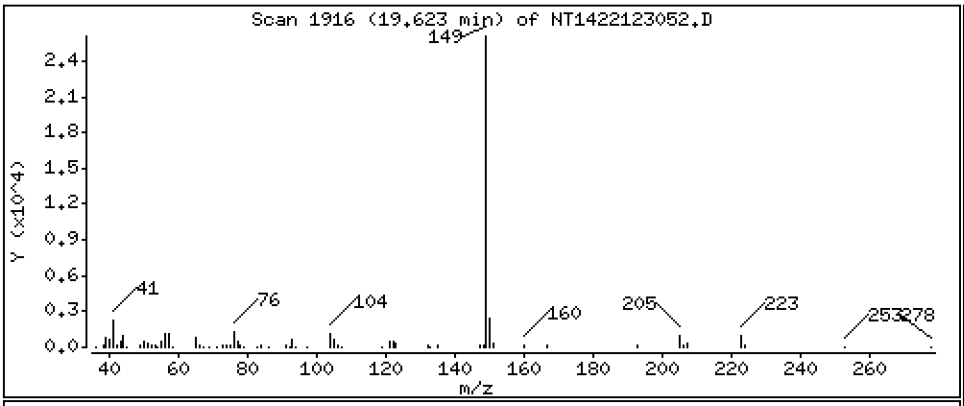
Operator: VTS

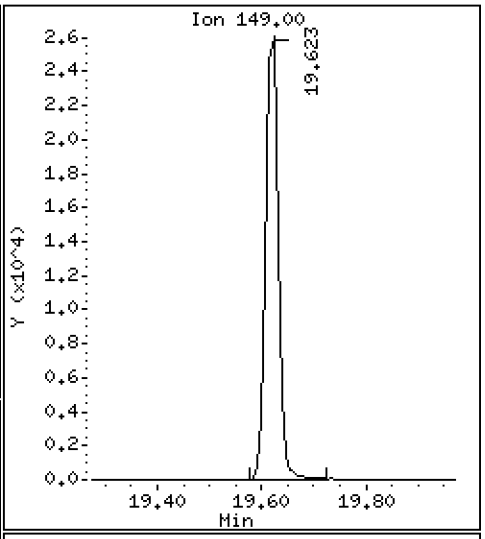
Column phase: ZB-5msi

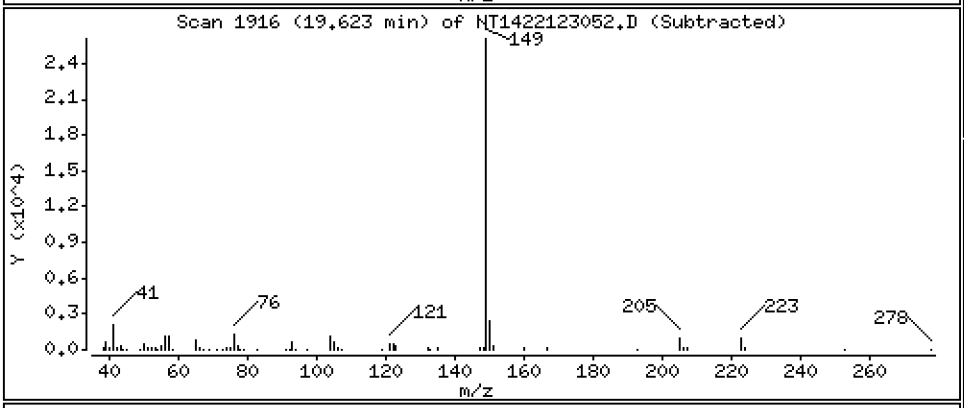
Column diameter: 0.25

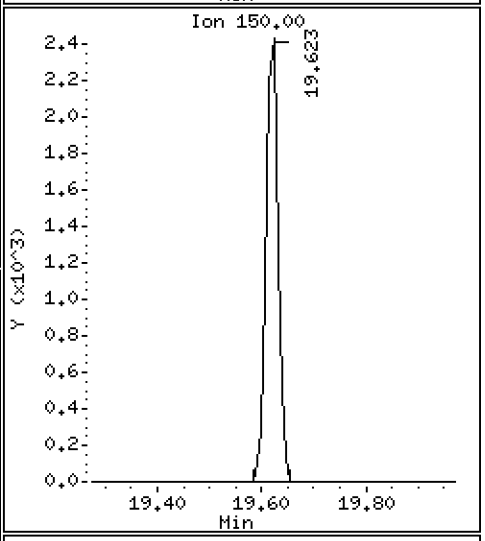
63 Di-n-butylphthalate

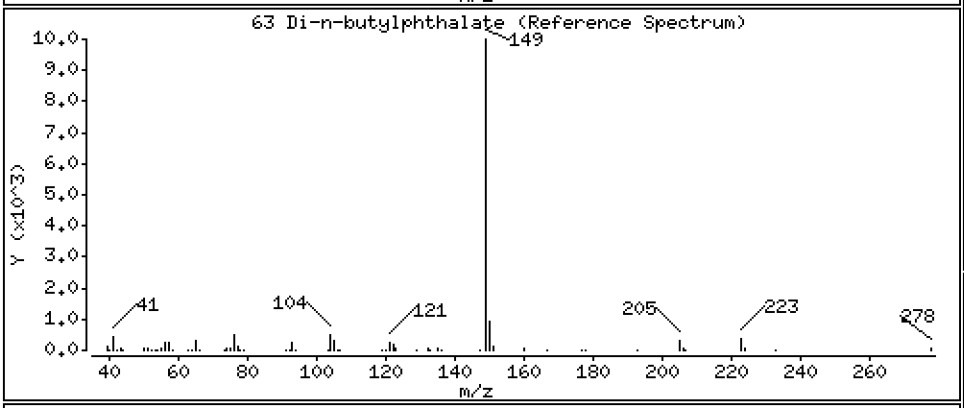
Concentration: 0.4286 ug/mL

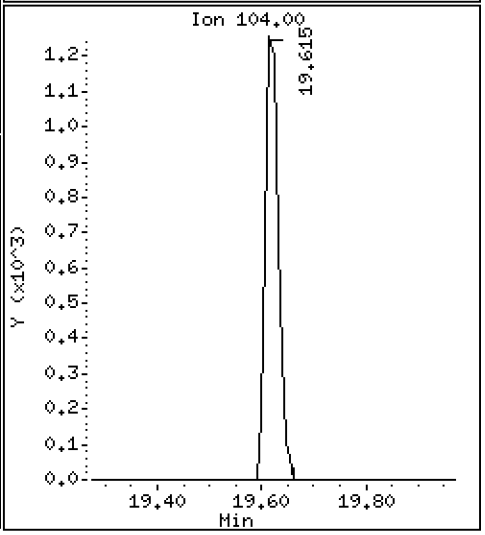


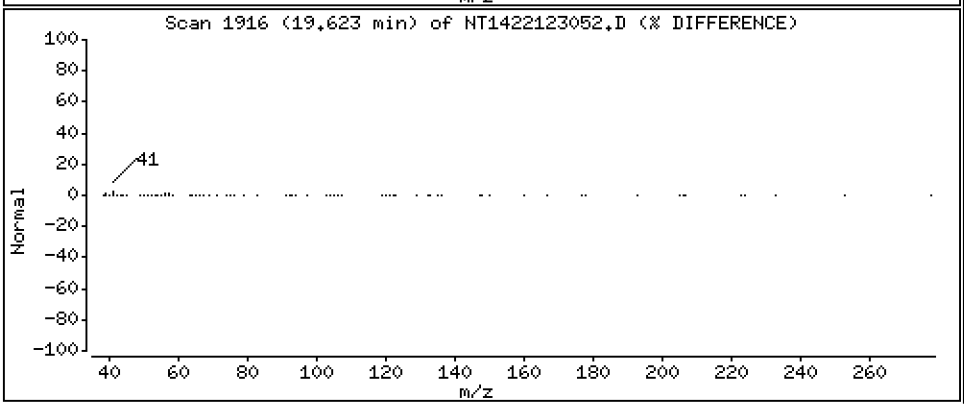












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

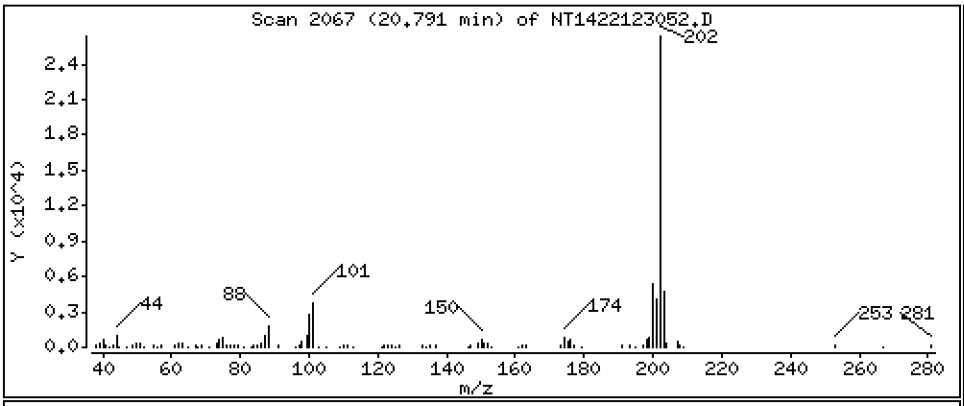
Operator: VTS

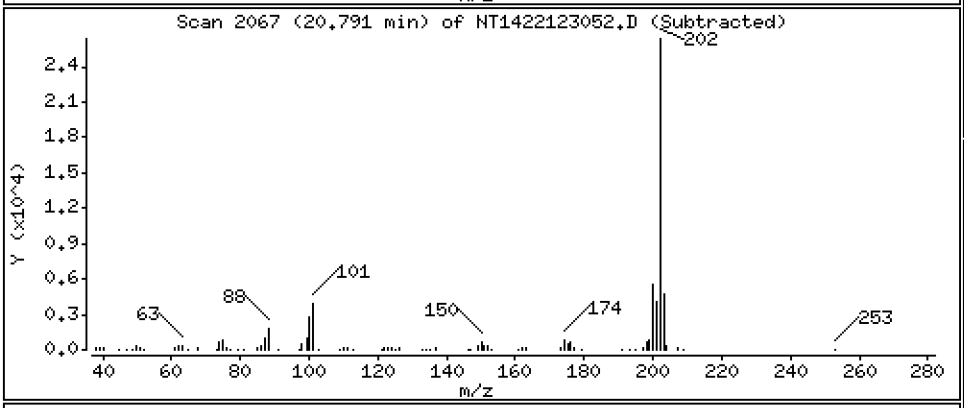
Column phase: ZB-5msi

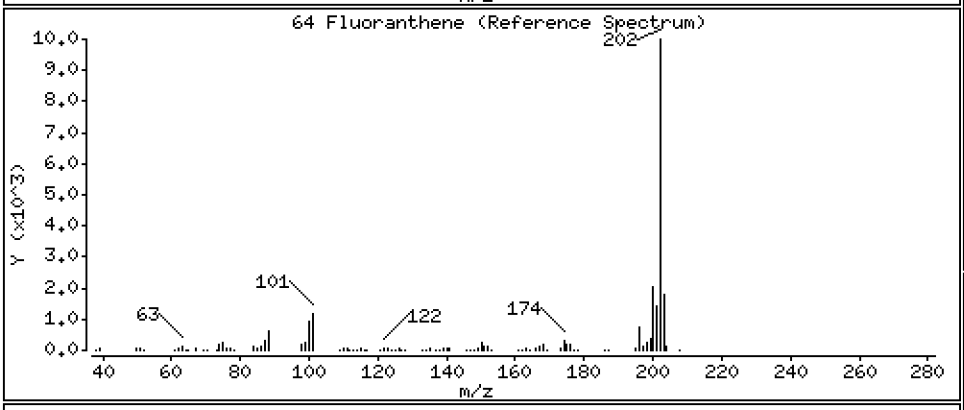
Column diameter: 0.25

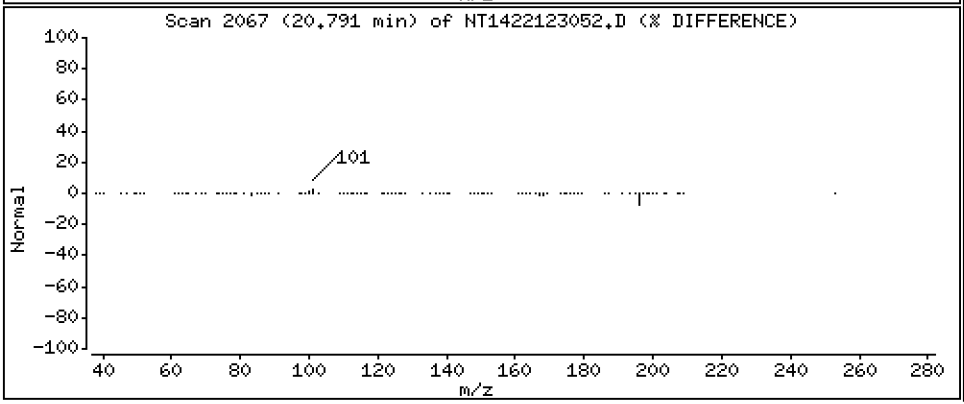
64 Fluoranthene

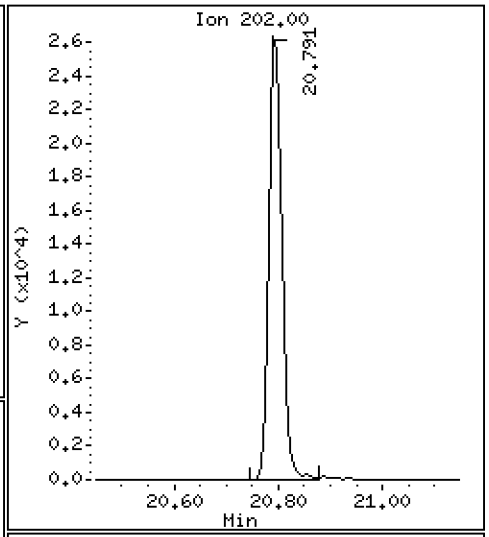
Concentration: 0.4643 ug/mL

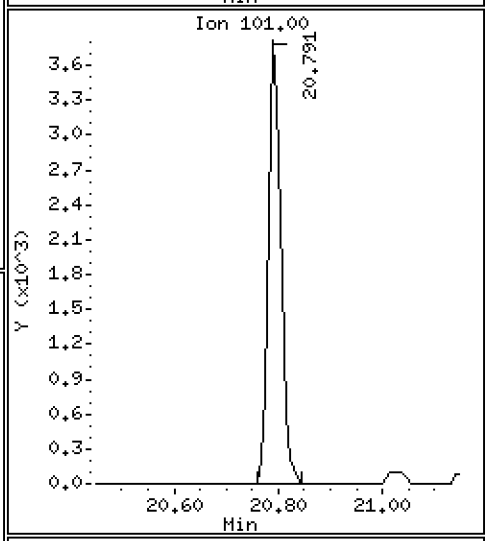


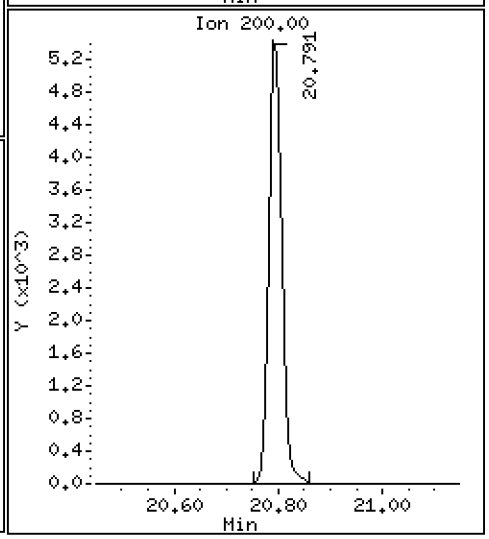












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

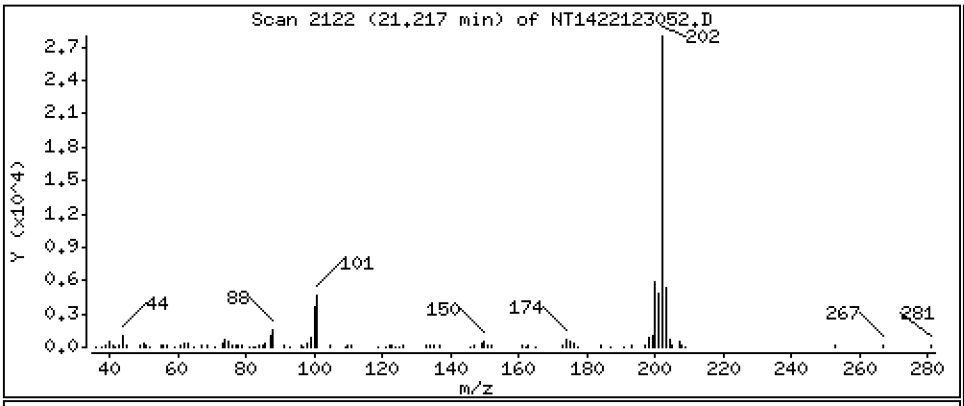
Operator: VTS

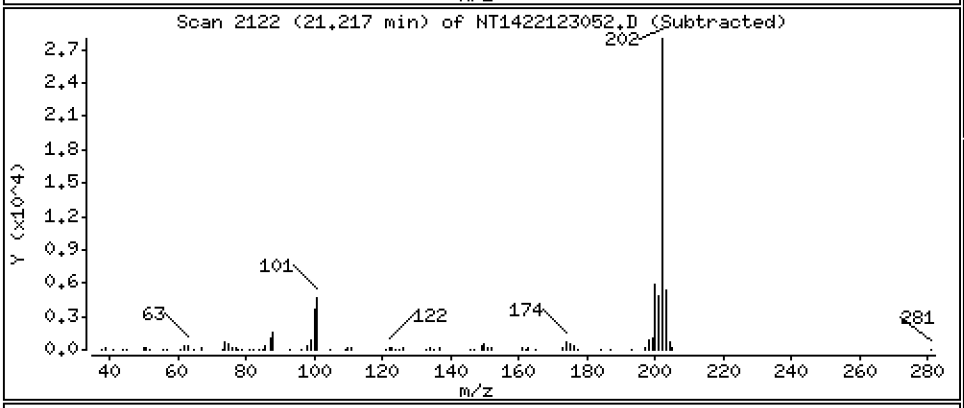
Column phase: ZB-5msi

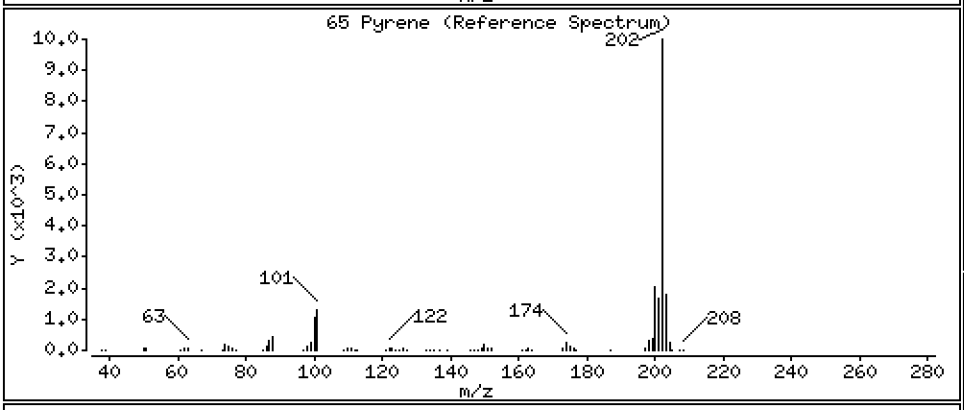
Column diameter: 0.25

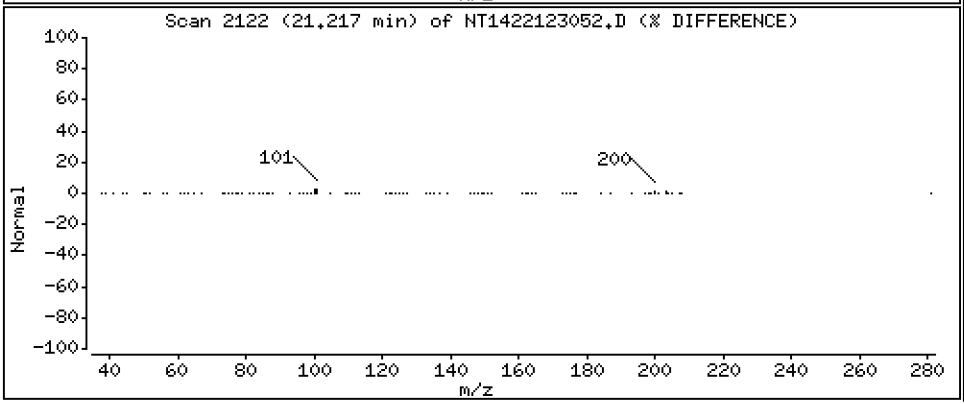
65 Pyrene

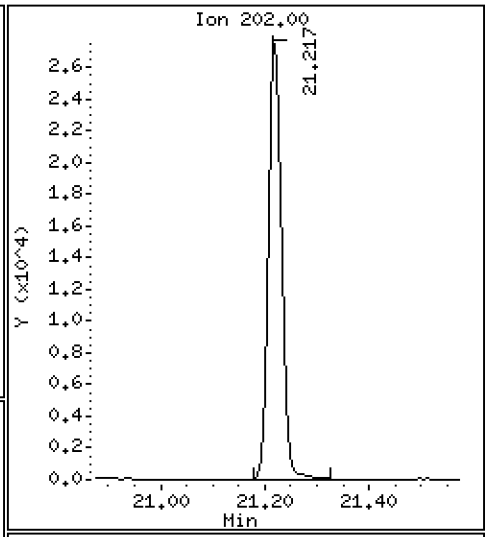
Concentration: 0.4679 ug/mL

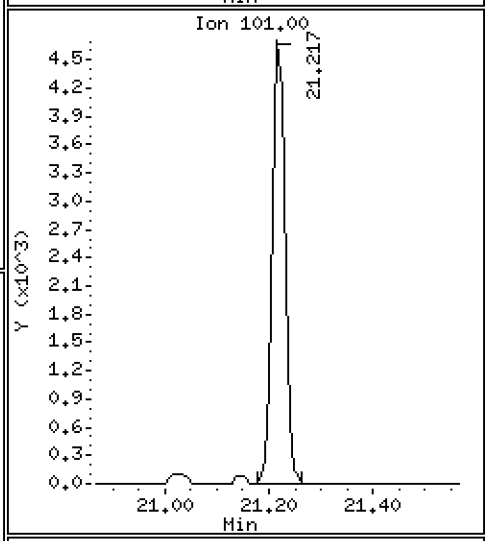


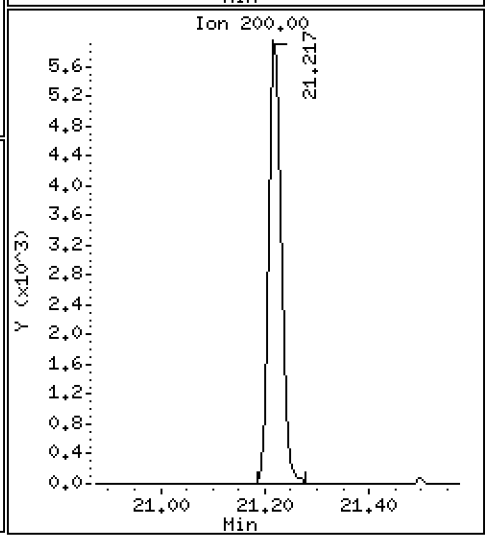












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

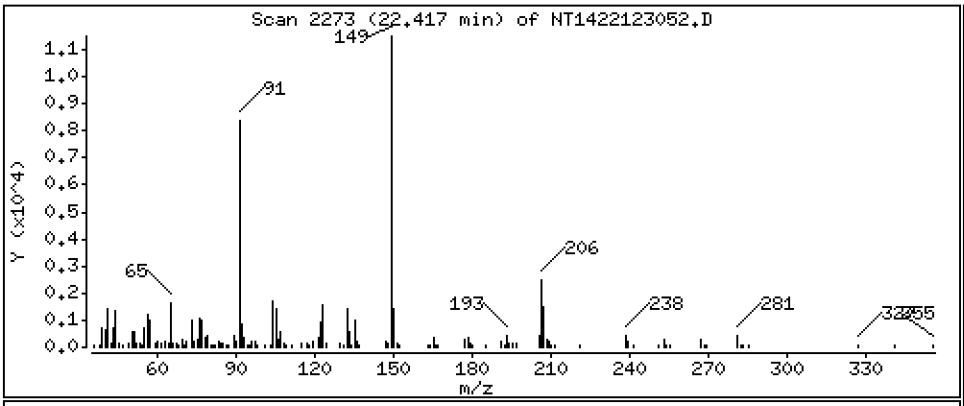
Operator: VTS

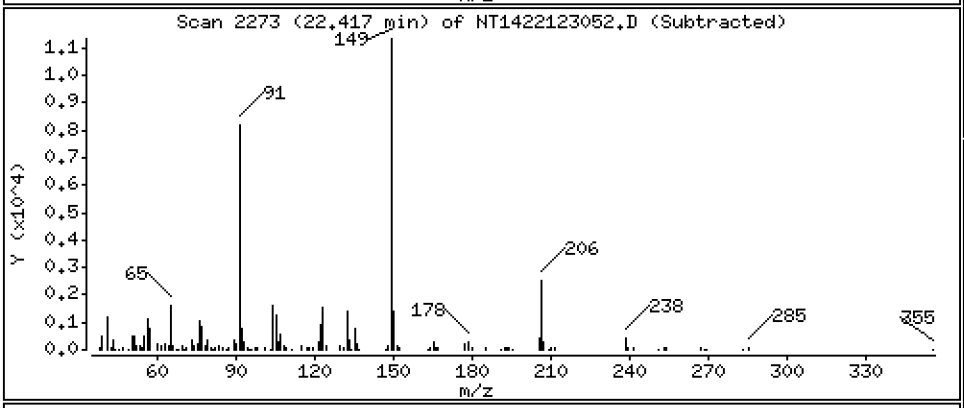
Column phase: ZB-5msi

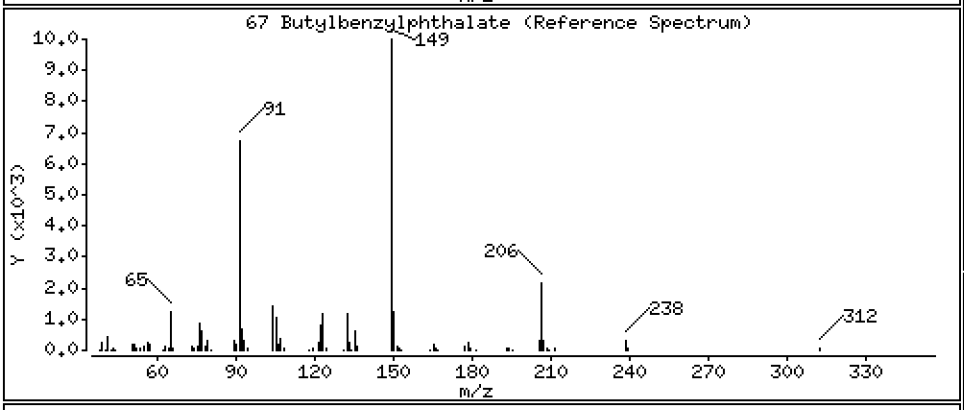
Column diameter: 0.25

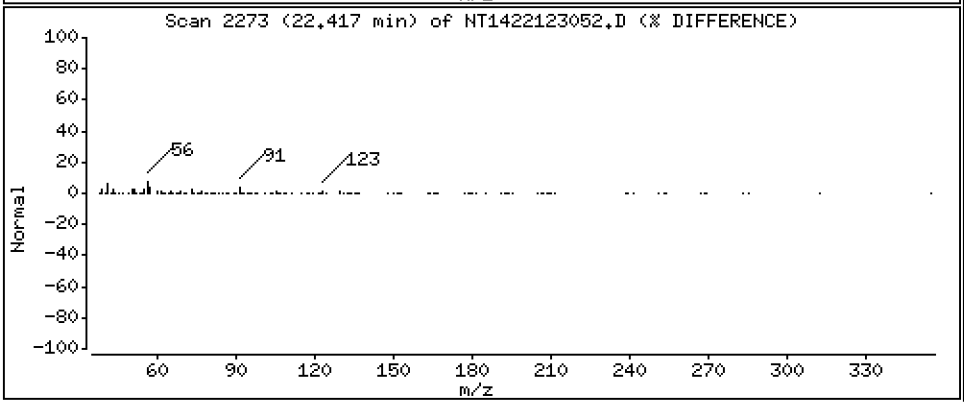
67 Butylbenzylphthalate

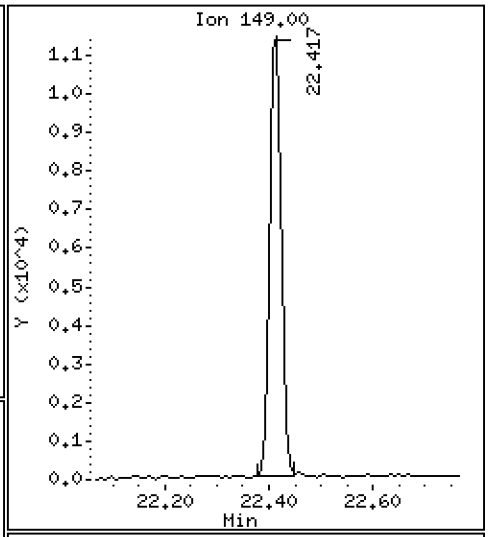
Concentration: 0.4436 ug/mL

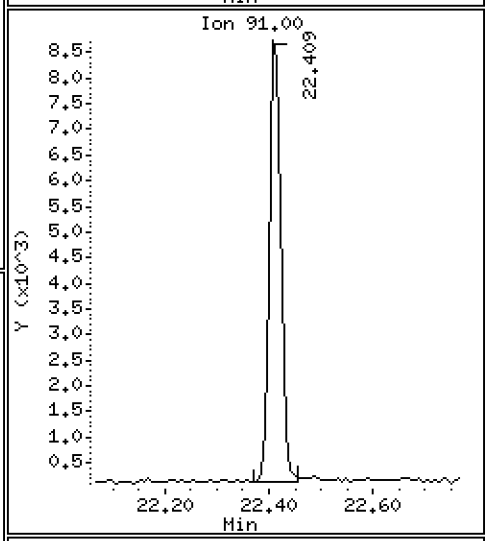


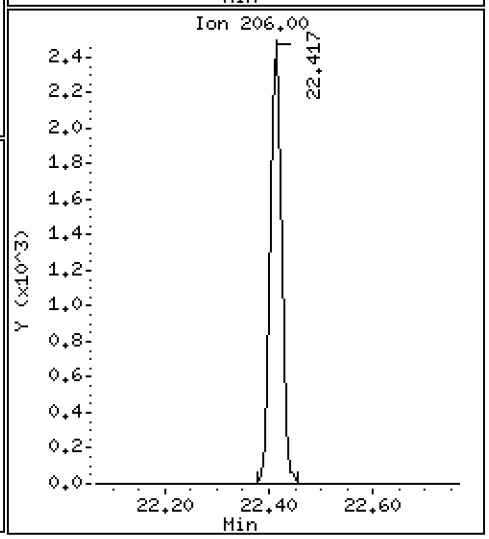












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

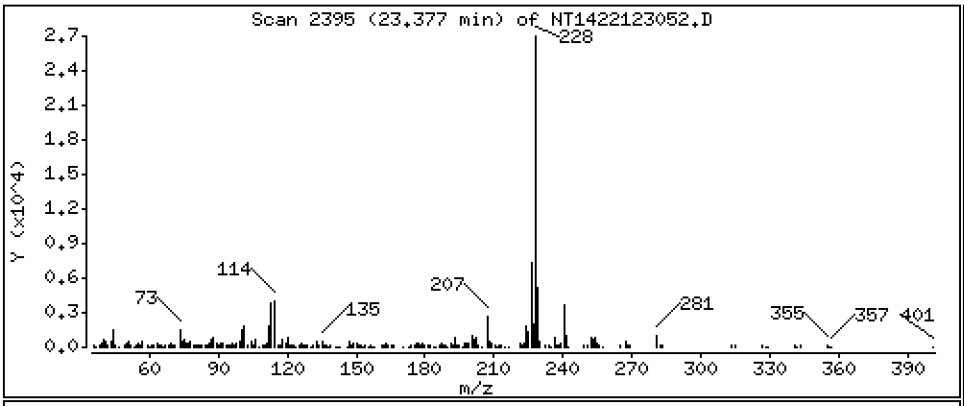
Operator: VTS

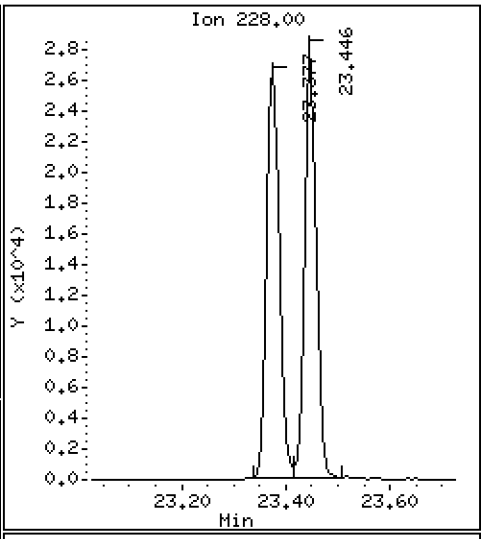
Column phase: ZB-5msi

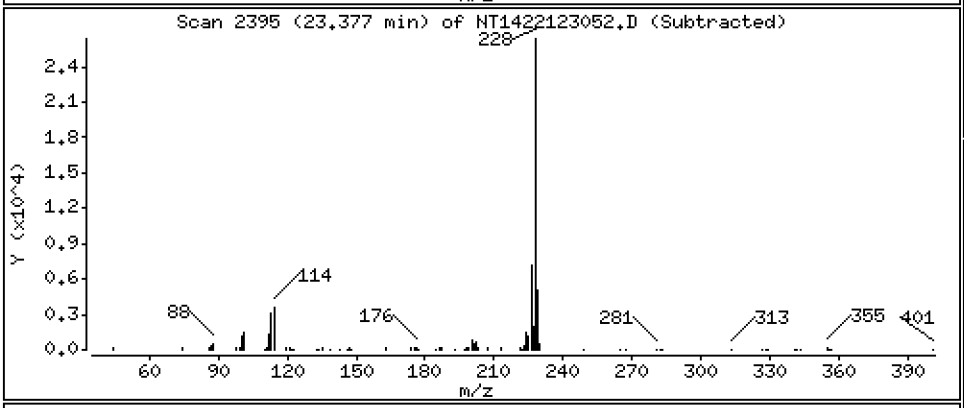
Column diameter: 0.25

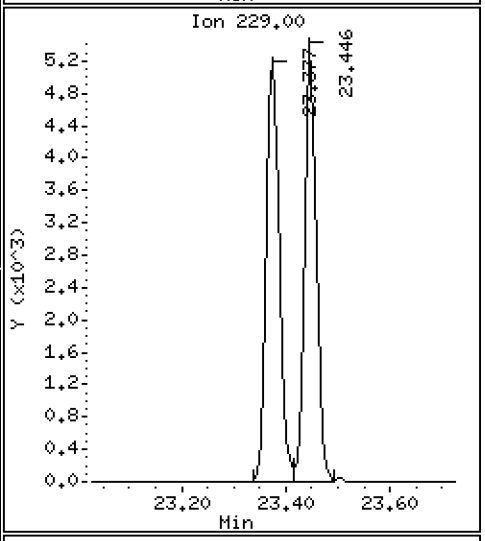
68 Benzo(a)anthracene

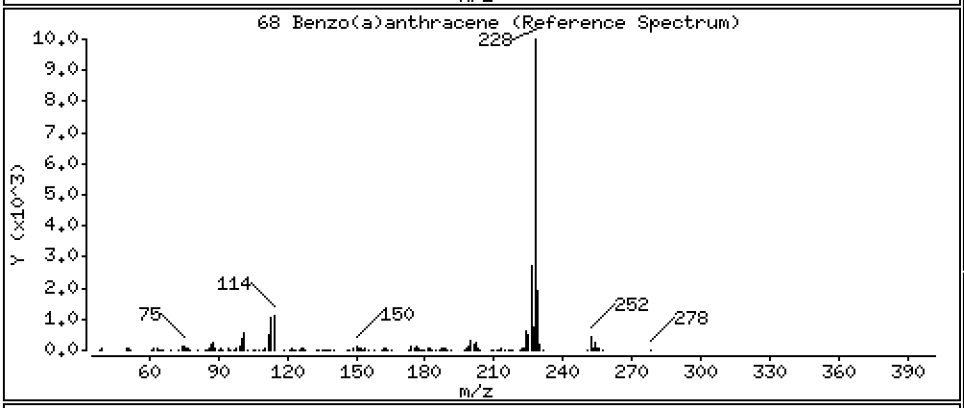
Concentration: 0.4849 ug/mL

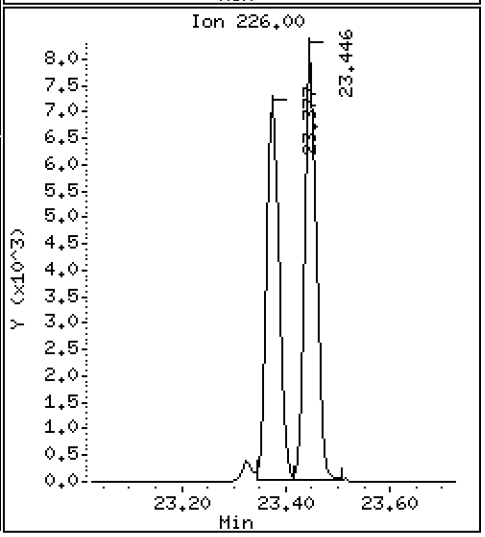


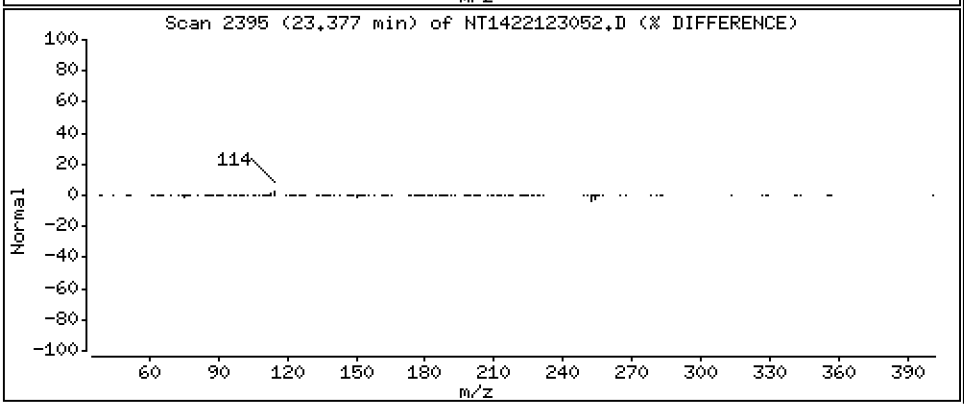












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

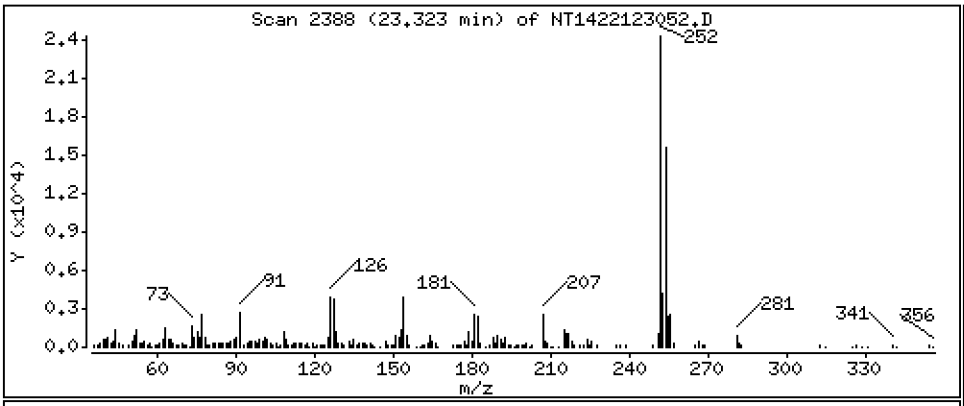
Operator: VTS

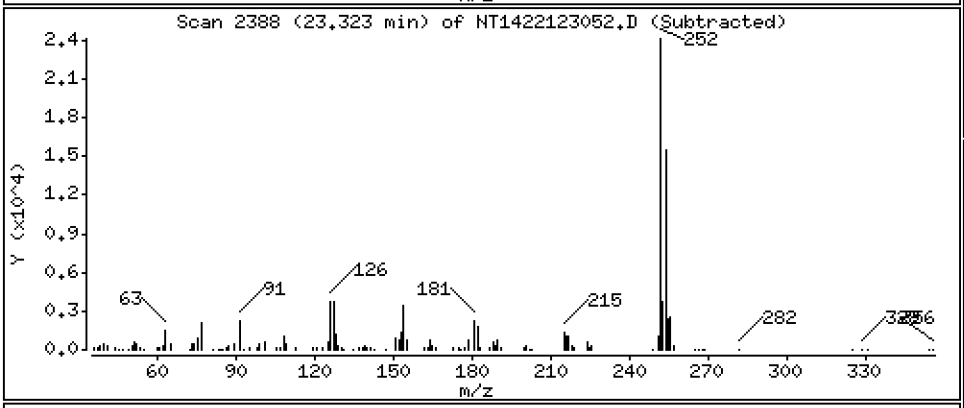
Column phase: ZB-5msi

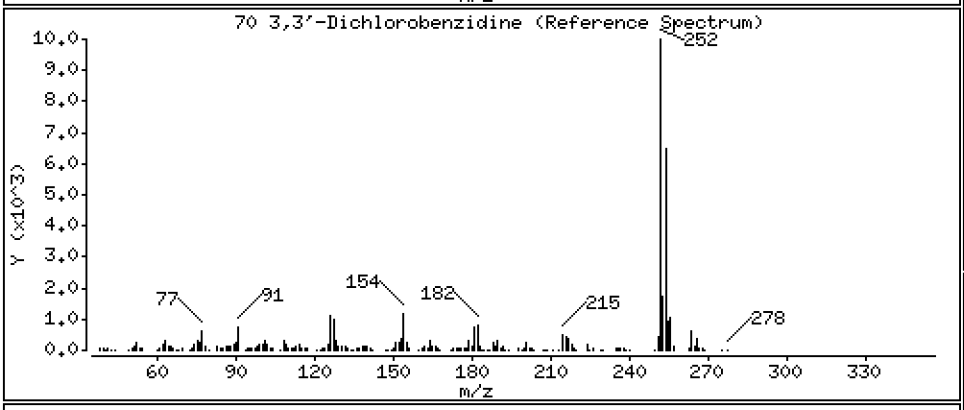
Column diameter: 0.25

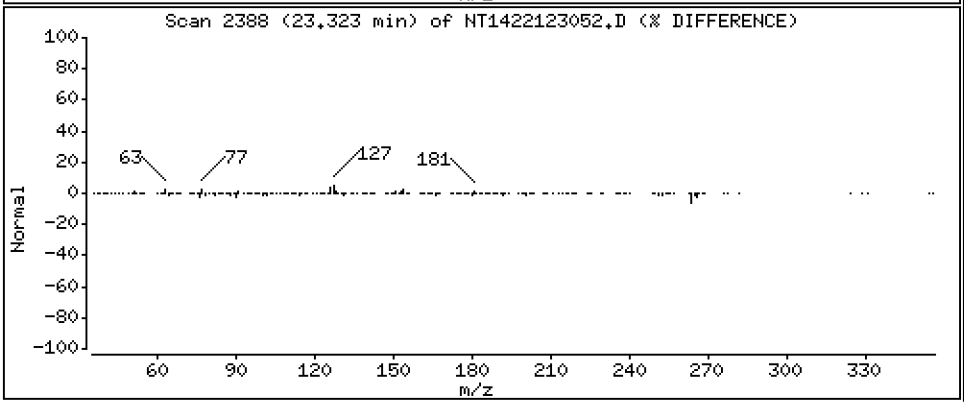
70 3,3'-Dichlorobenzidine

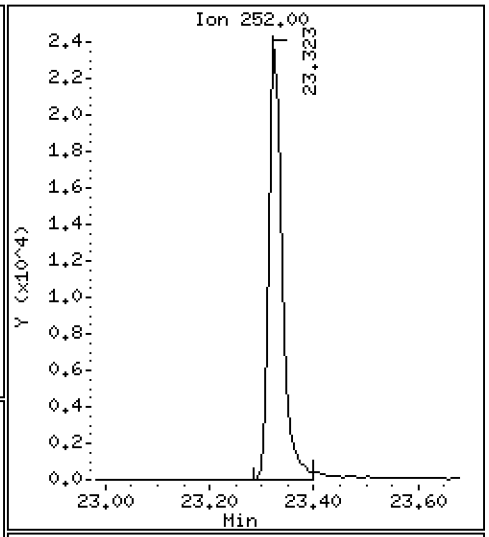
Concentration: 1.479 ug/mL

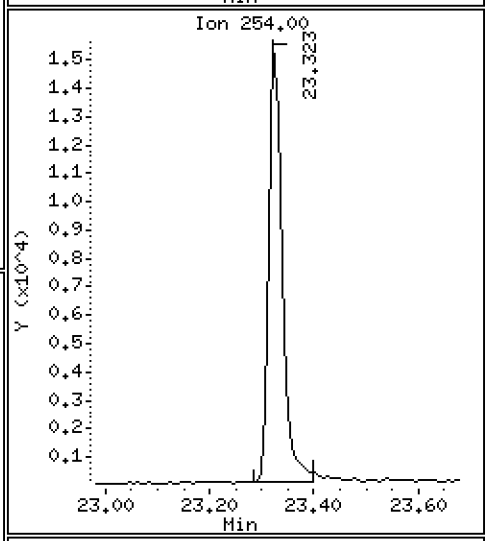


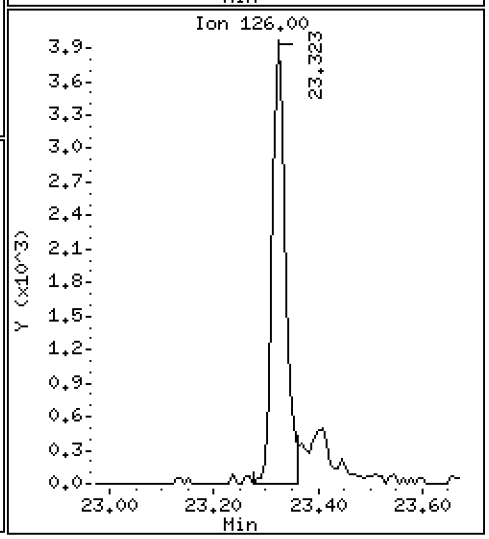












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

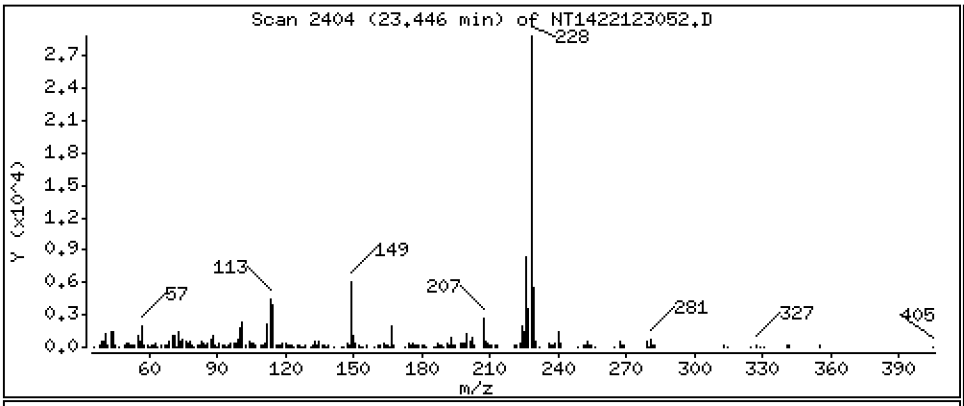
Operator: VTS

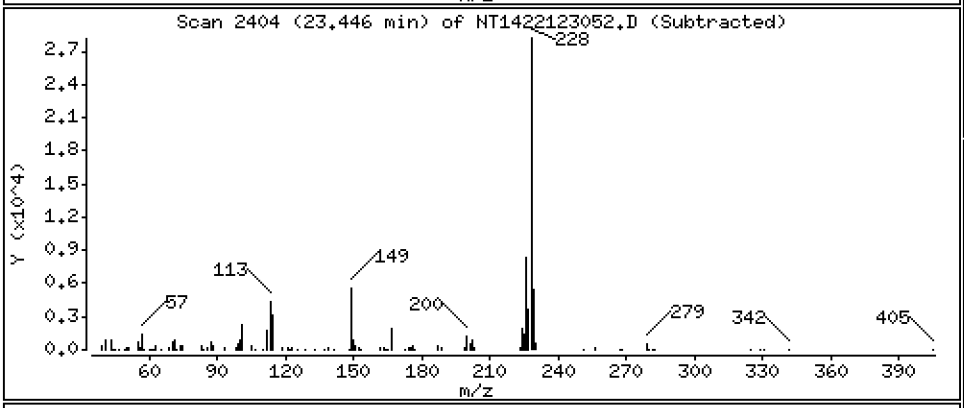
Column phase: ZB-5msi

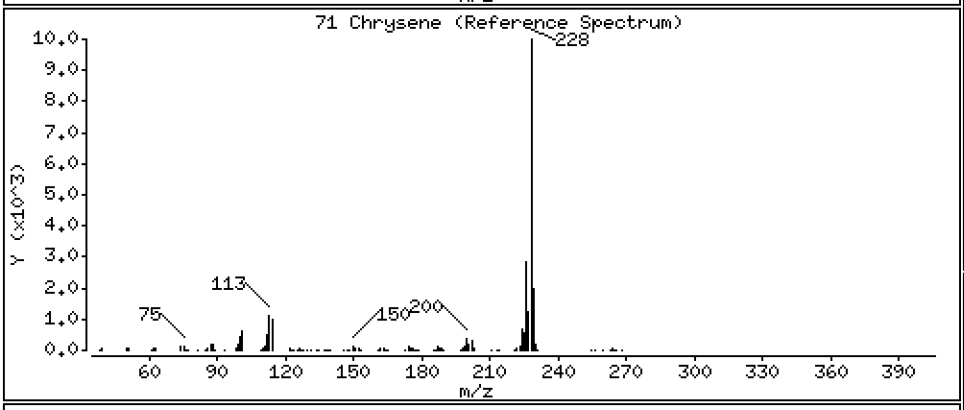
Column diameter: 0.25

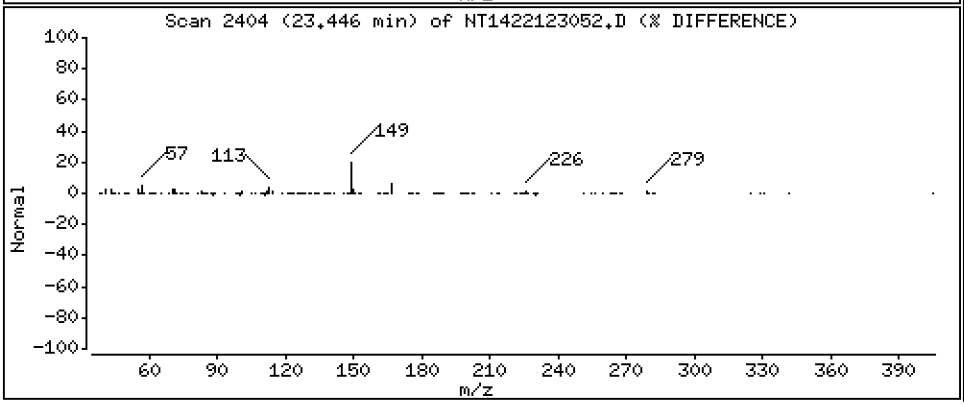
71 Chrysene

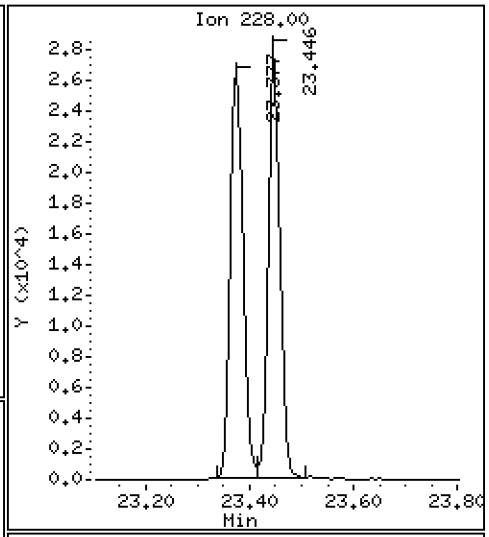
Concentration: 0.4899 ug/mL

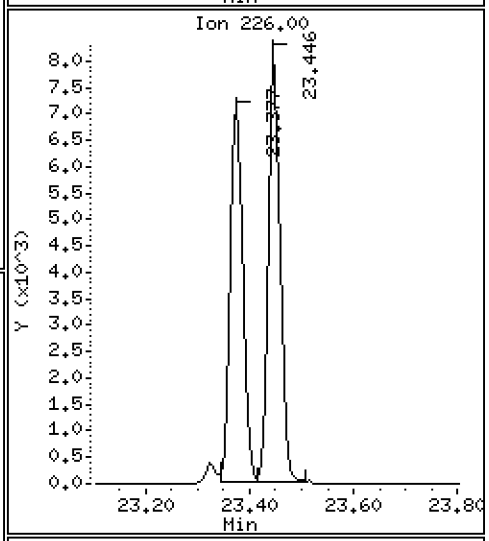


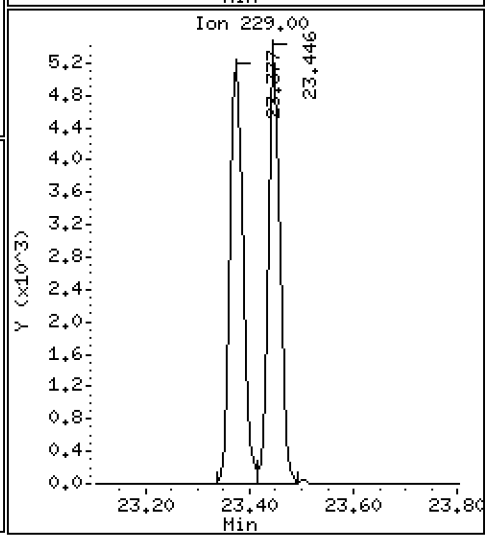












Date : 31-DEC-2022 15:05

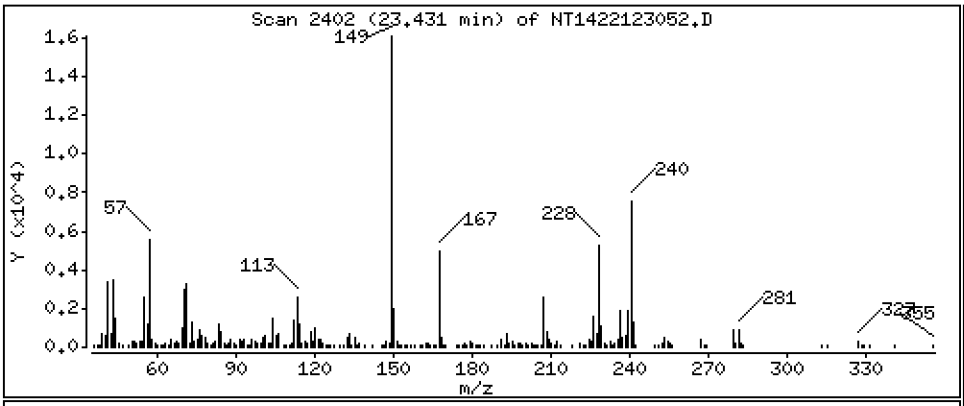
Client ID: Instrument: nt14.i

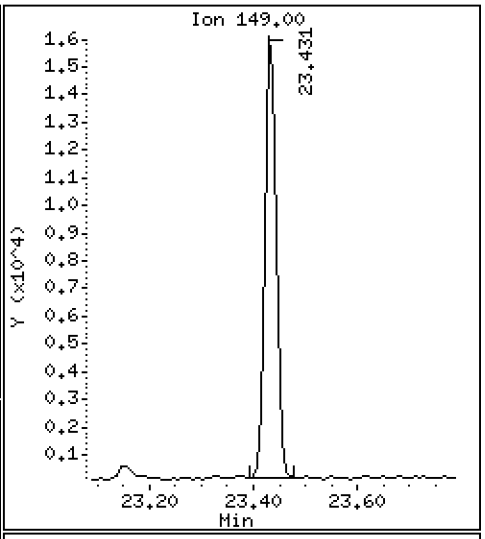
Sample Info: SKL0356-LCV2

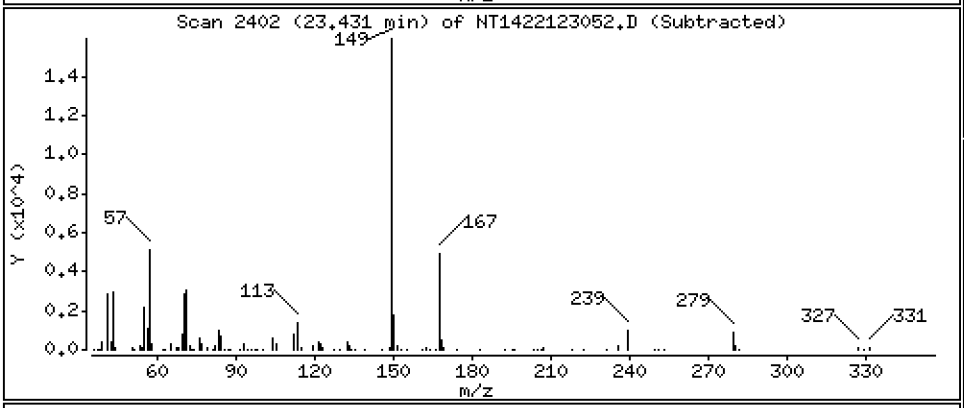
Operator: VTS

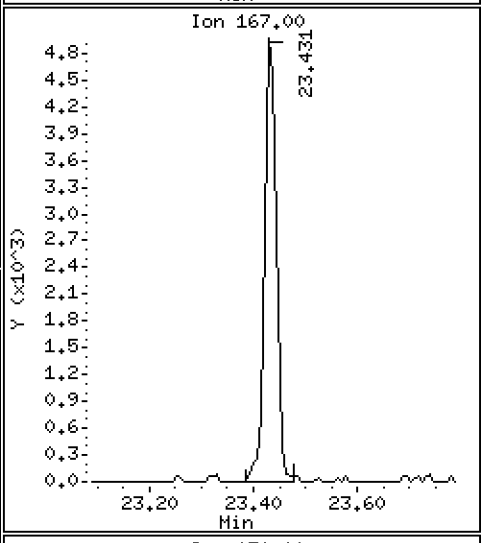
Column phase: ZB-5msi Column diameter: 0.25

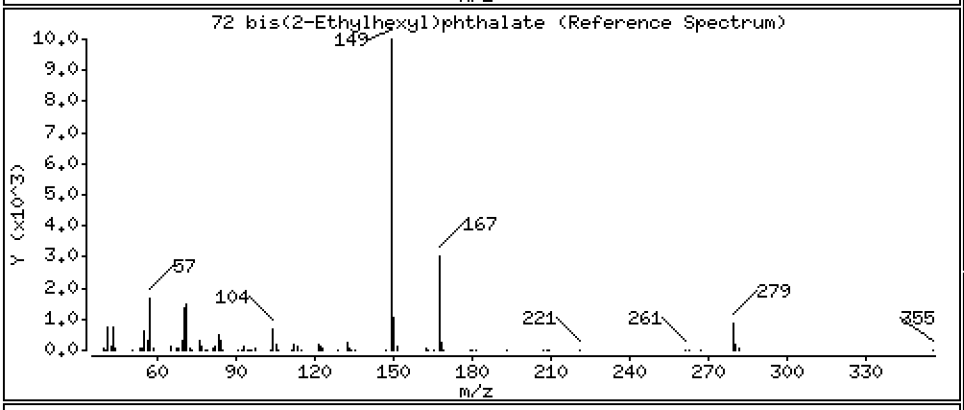
72 bis(2-Ethylhexyl)phthalate Concentration: 0.4704 ug/mL

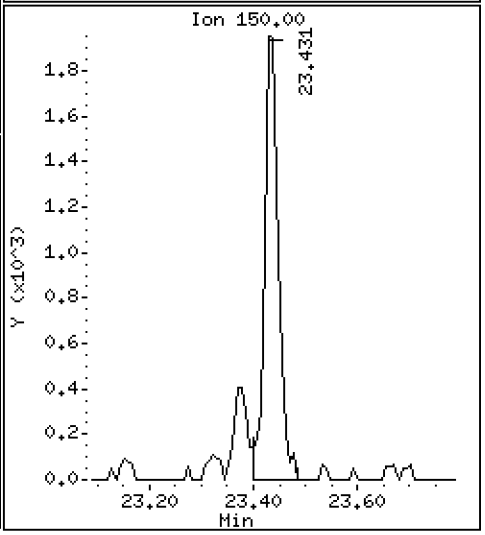


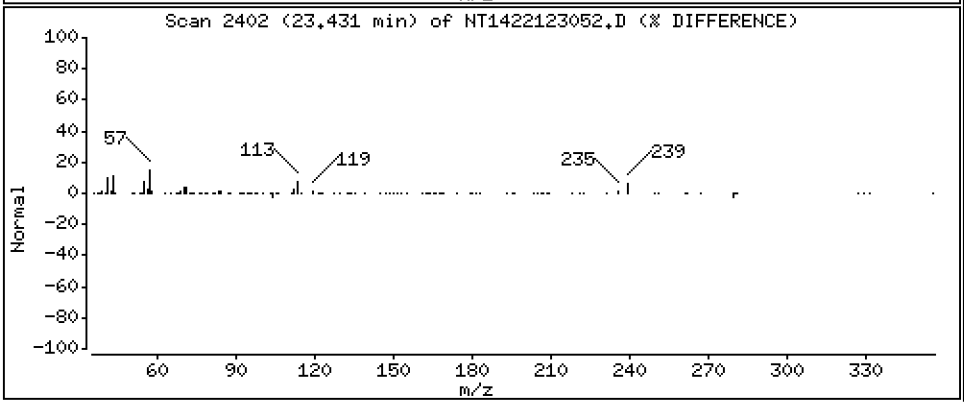












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

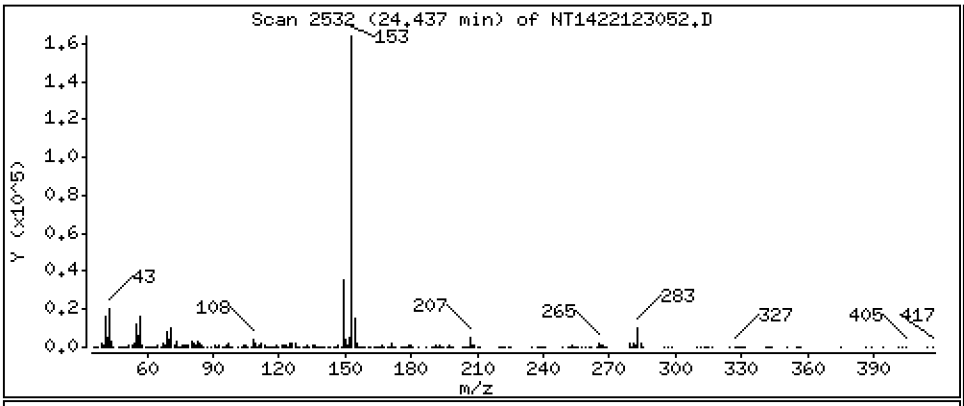
Operator: VTS

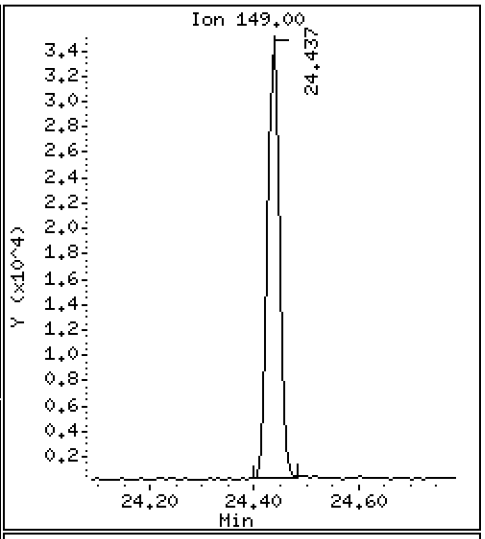
Column phase: ZB-5msi

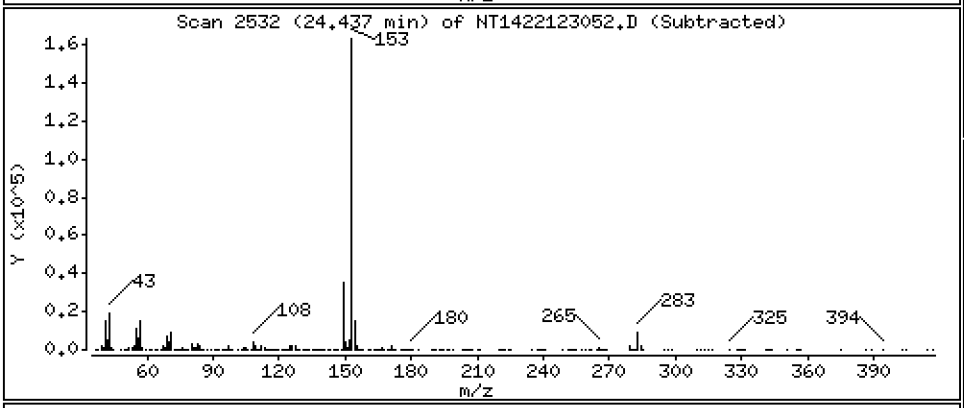
Column diameter: 0.25

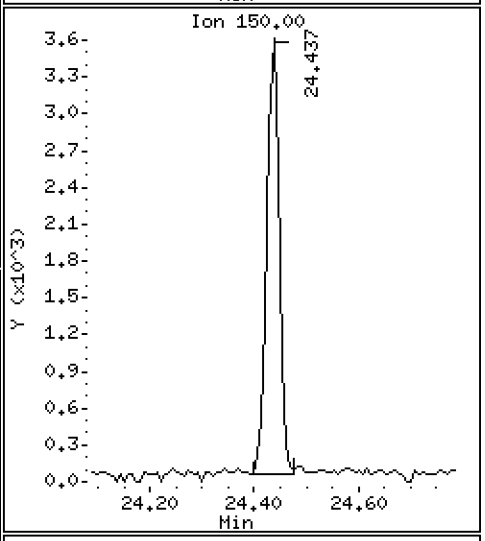
73 Di-n-octylphthalate

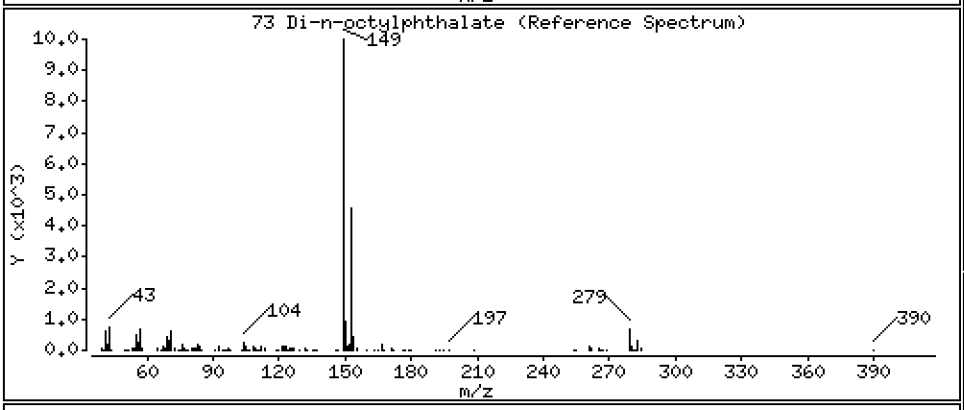
Concentration: 0.4879 ug/mL

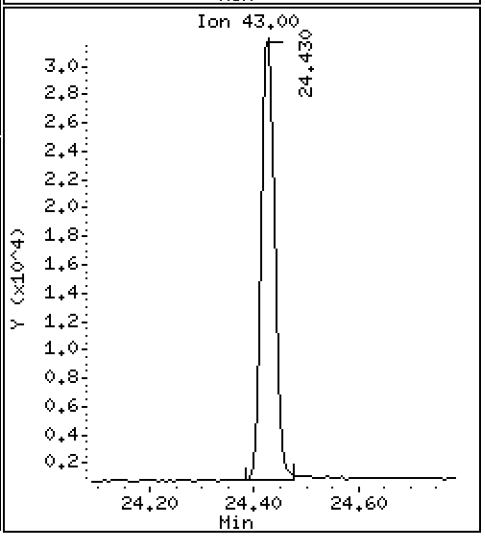


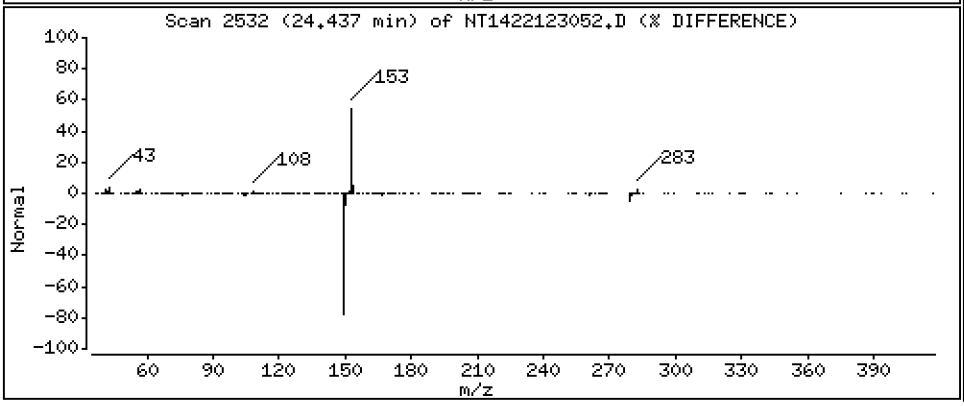












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

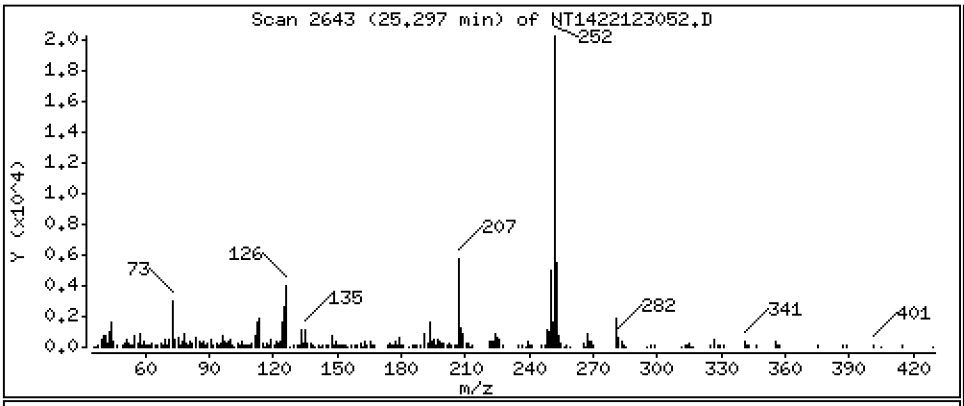
Operator: VTS

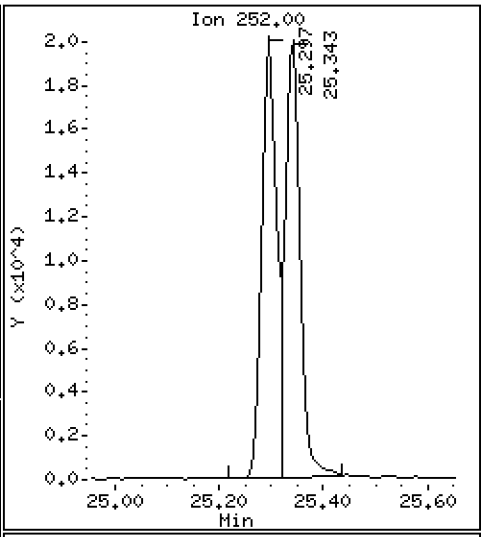
Column phase: ZB-5msi

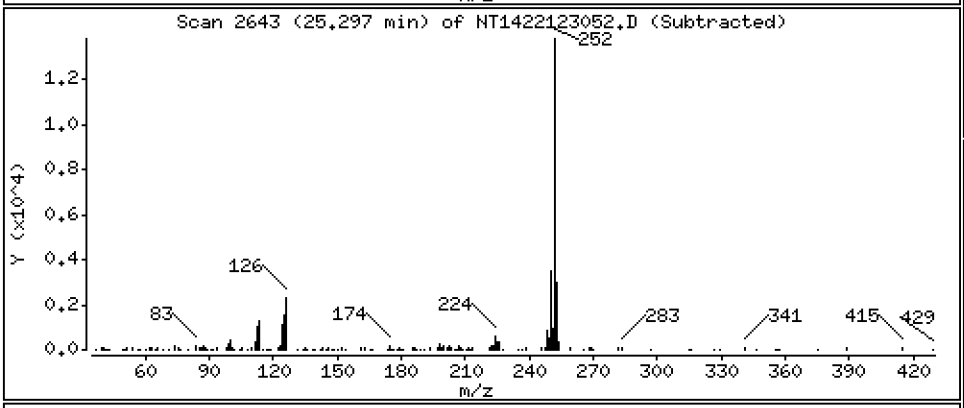
Column diameter: 0.25

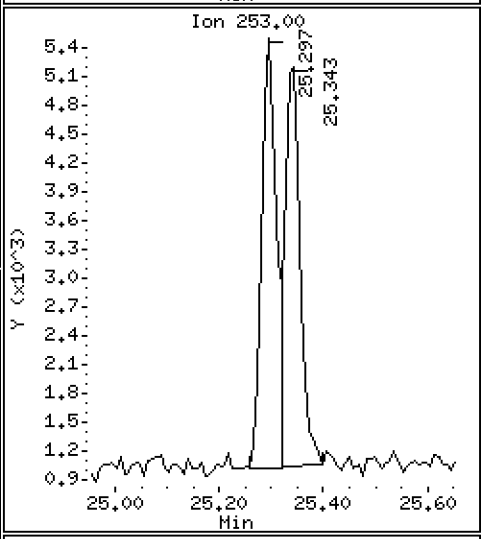
74 Benzo(b)fluoranthene

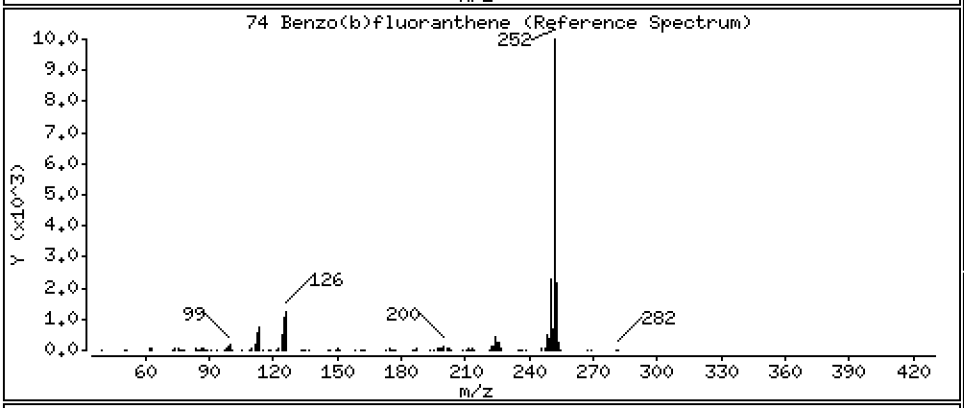
Concentration: 0.5079 ug/mL

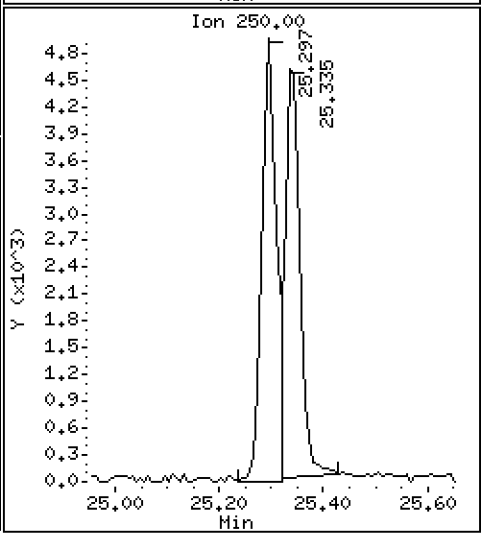


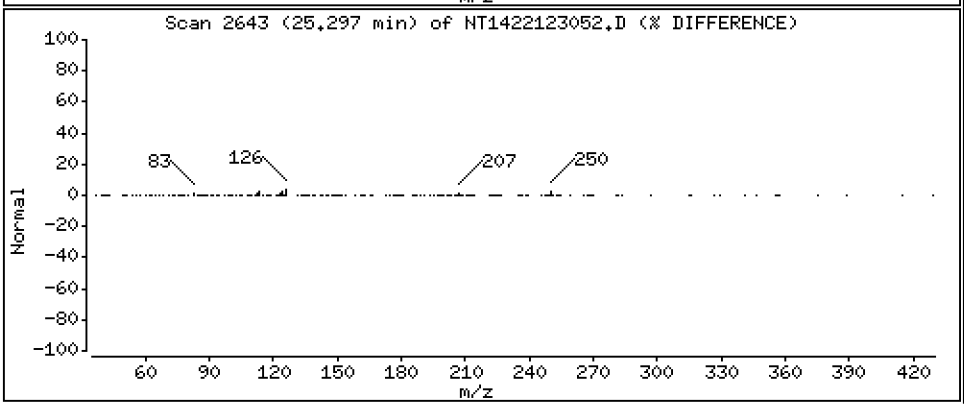












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

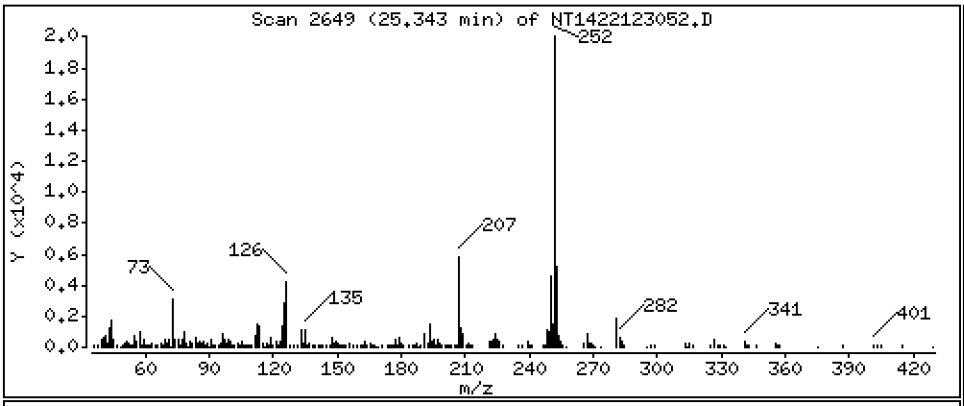
Operator: VTS

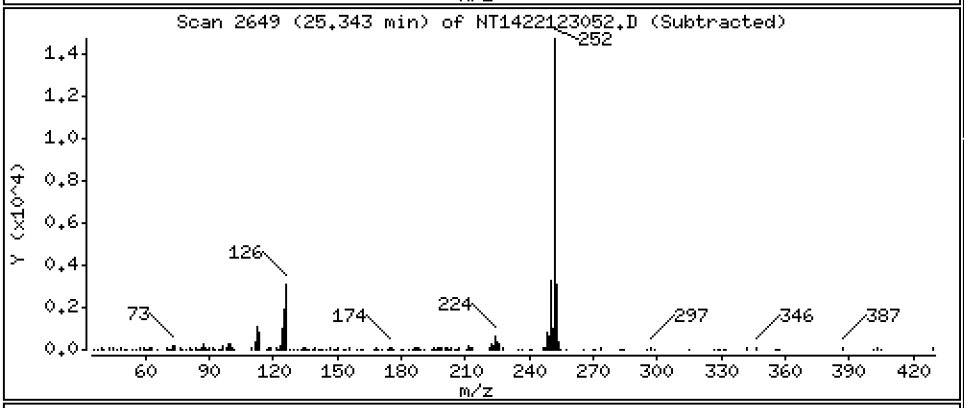
Column phase: ZB-5msi

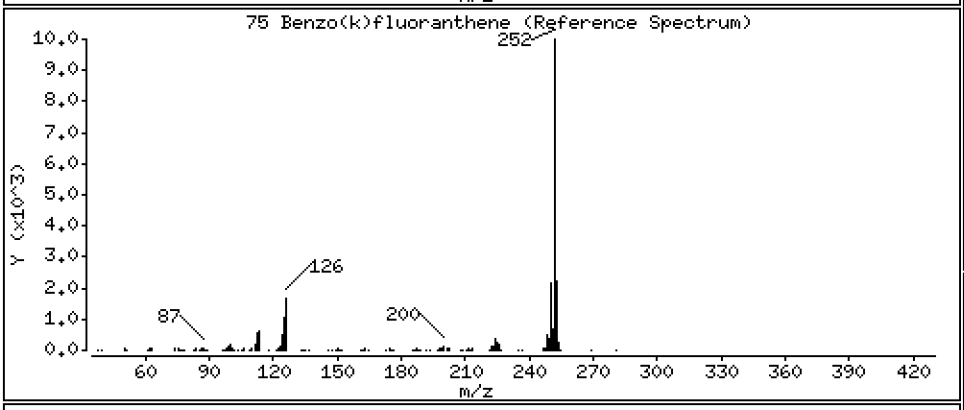
Column diameter: 0.25

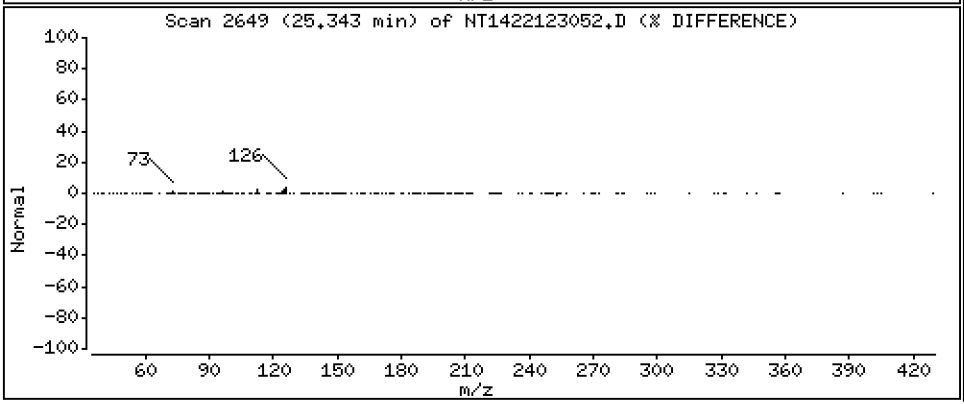
75 Benzo(k)fluoranthene

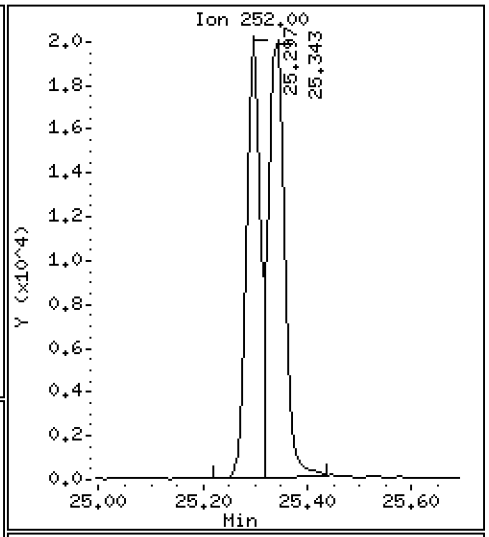
Concentration: 0.5155 ug/mL

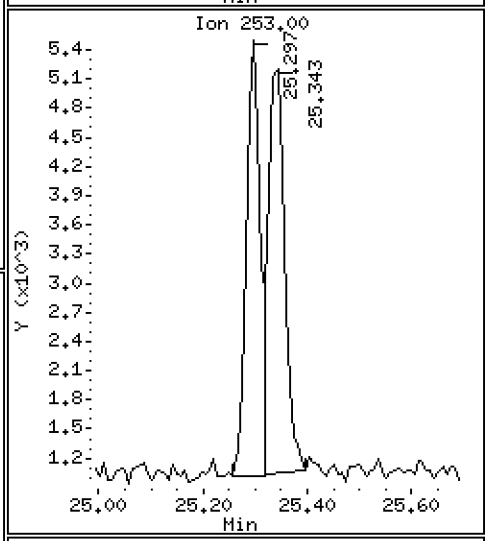


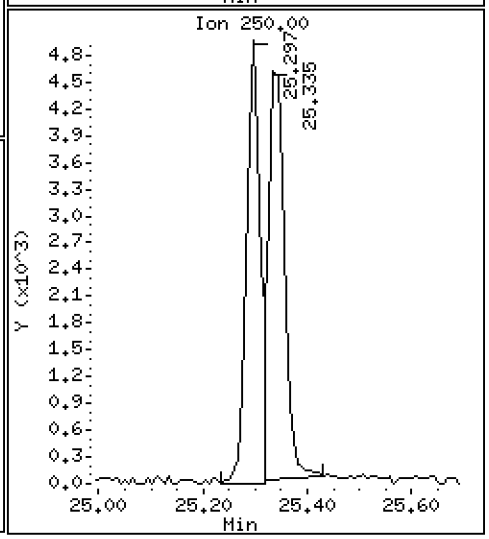












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

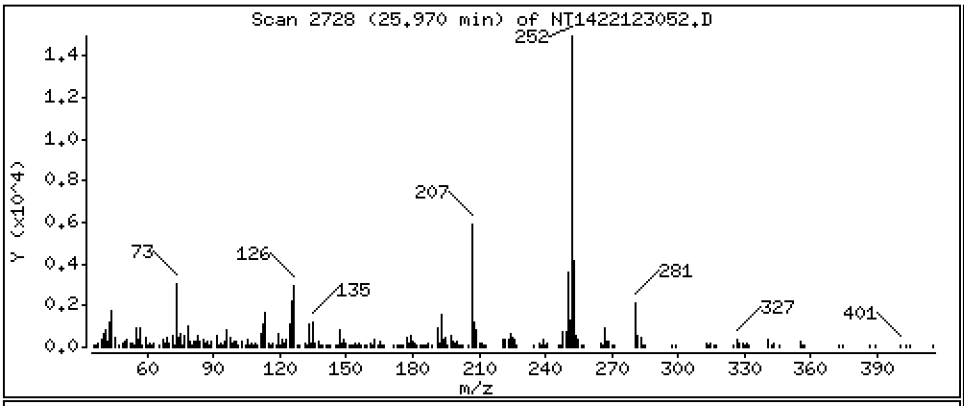
Operator: VTS

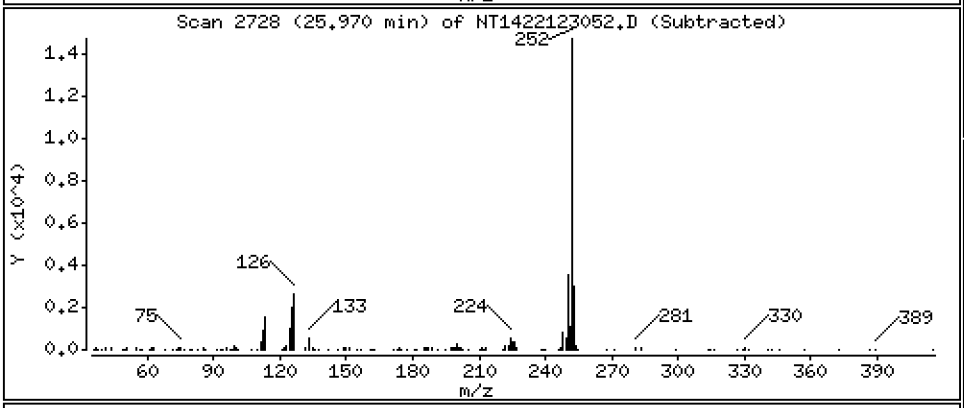
Column phase: ZB-5msi

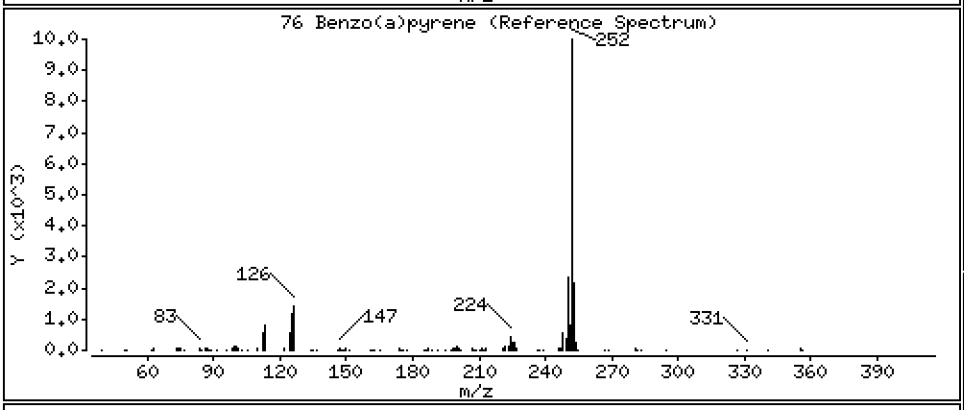
Column diameter: 0.25

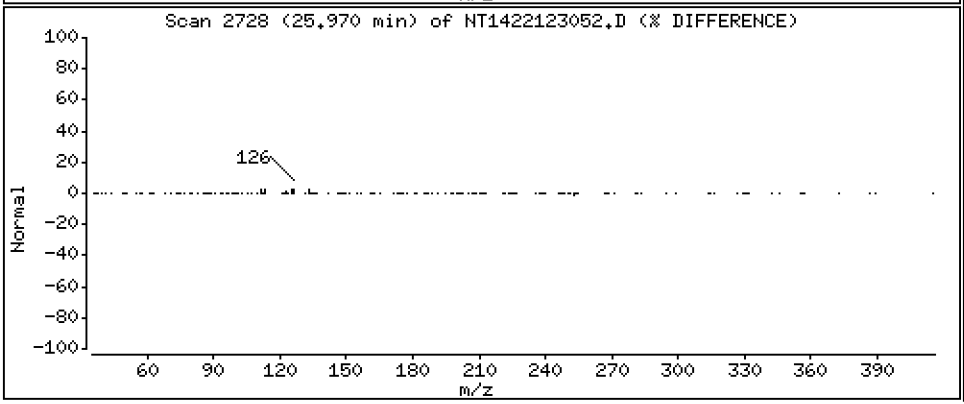
76 Benzo(a)pyrene

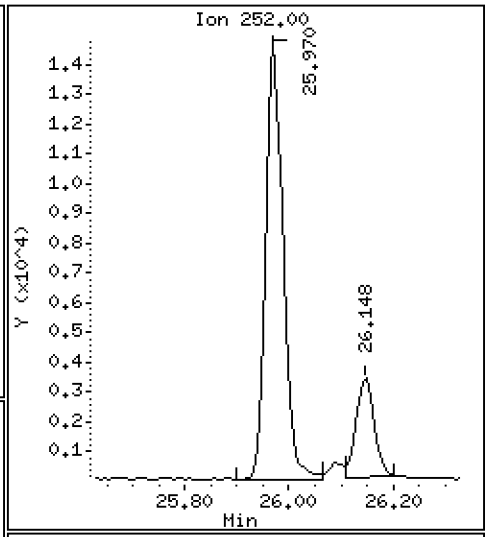
Concentration: 0.5015 ug/mL

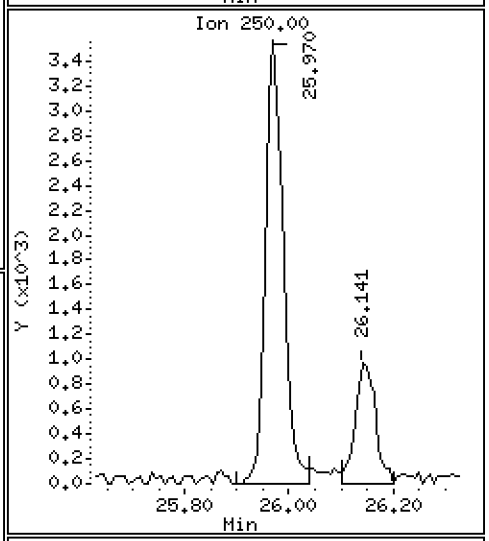


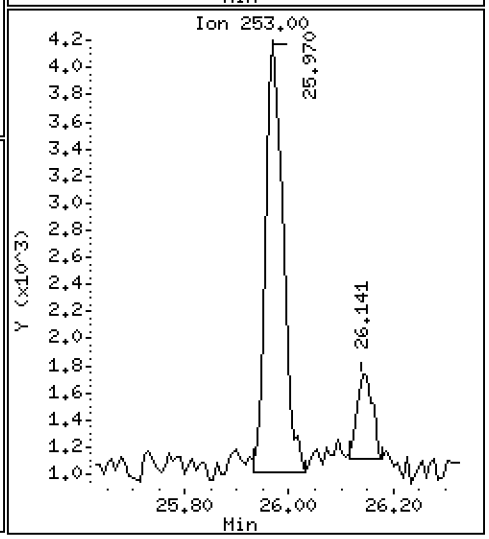












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

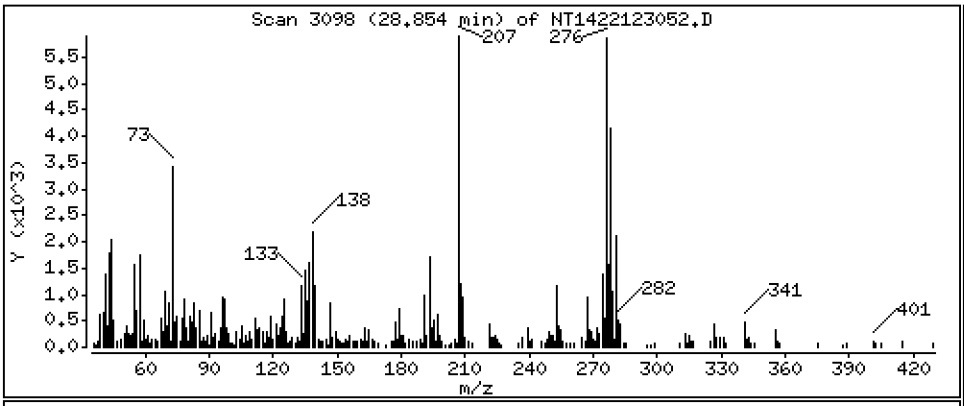
Operator: VTS

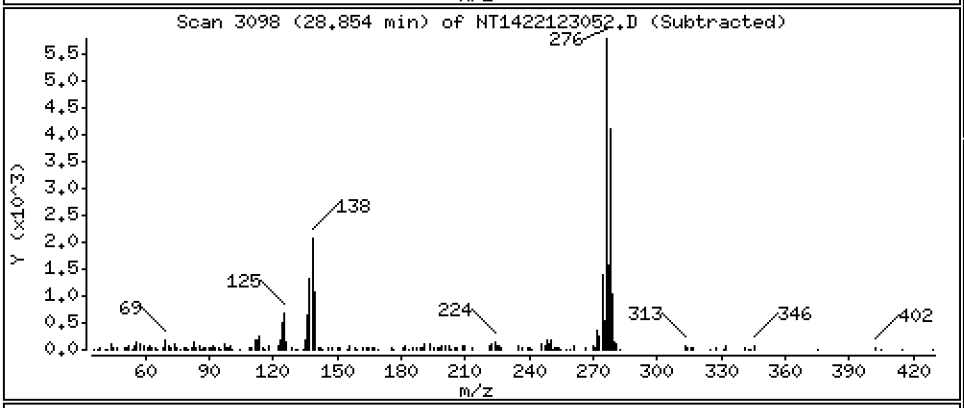
Column phase: ZB-5msi

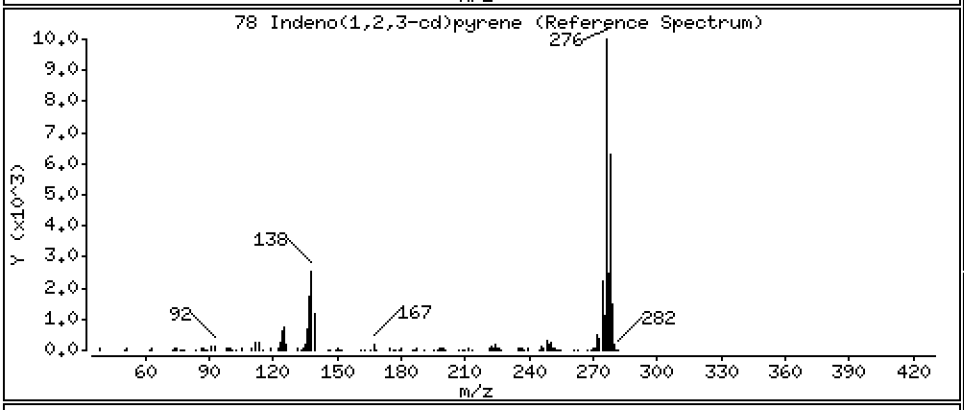
Column diameter: 0.25

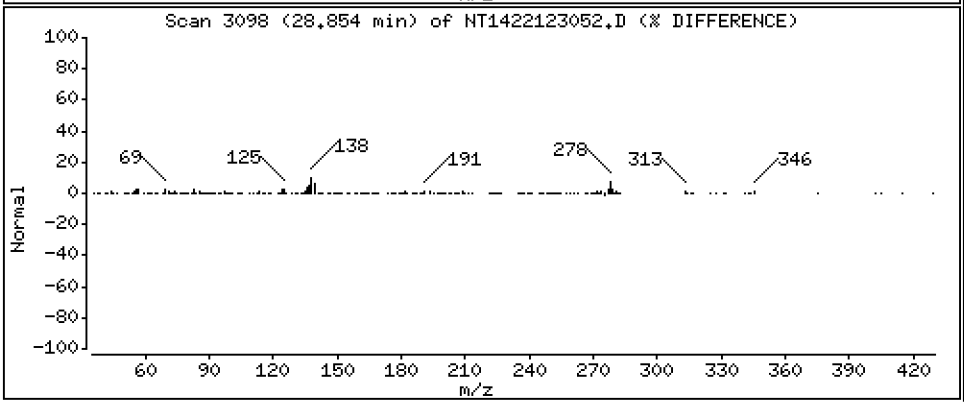
78 Indeno(1,2,3-cd)pyrene

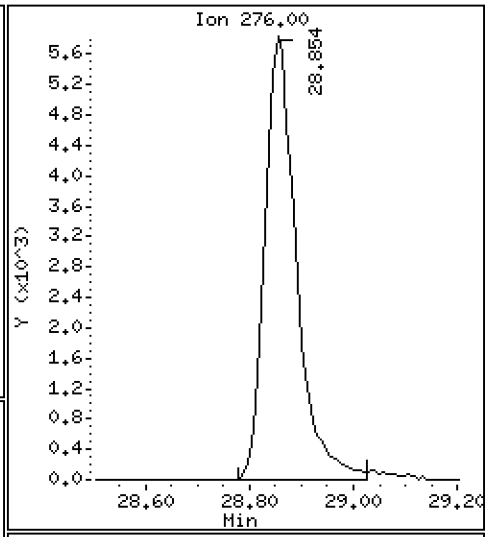
Concentration: 0.3235 ug/mL

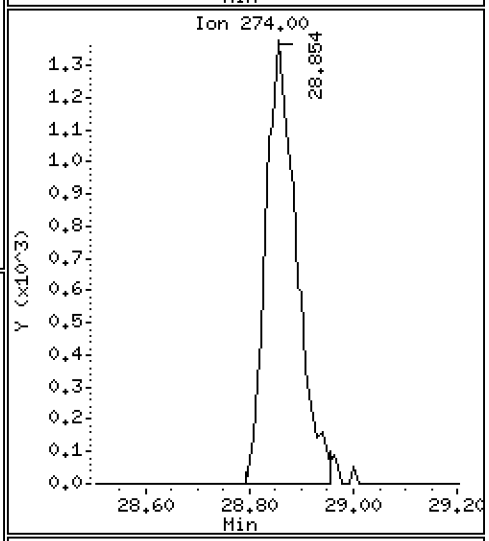


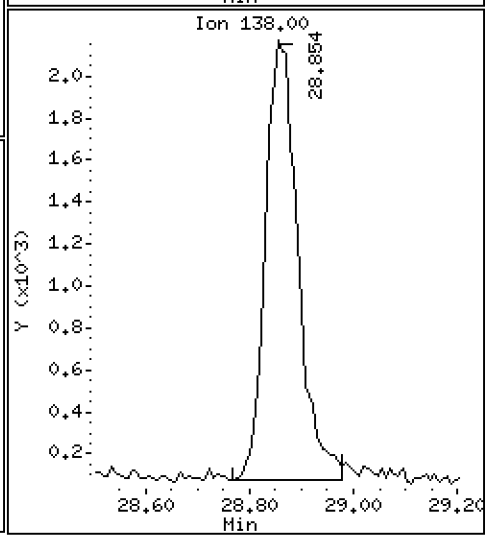












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

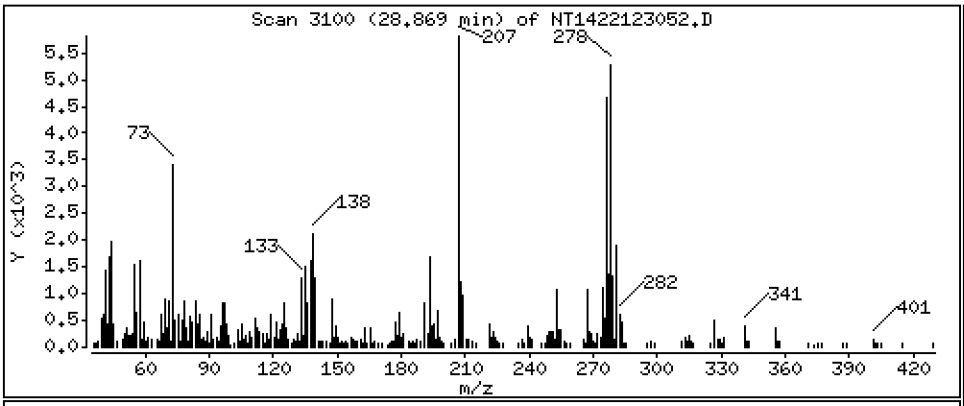
Operator: VTS

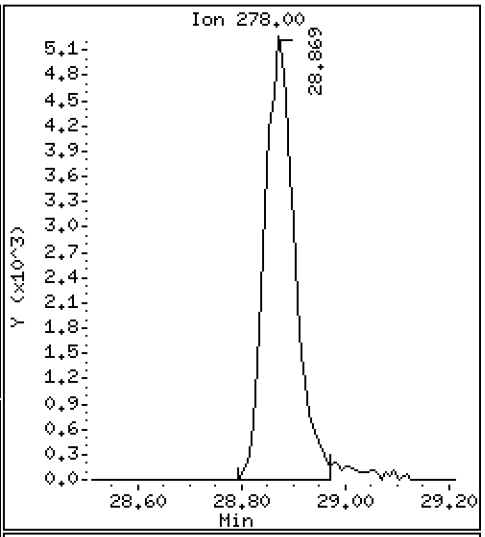
Column phase: ZB-5msi

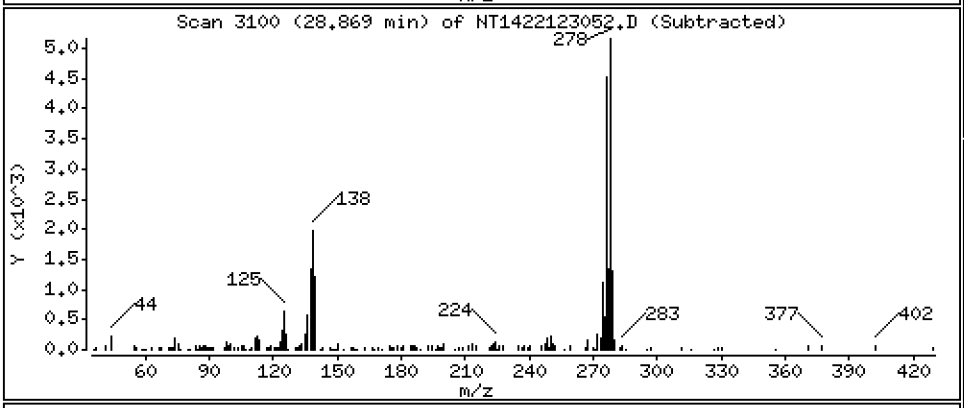
Column diameter: 0.25

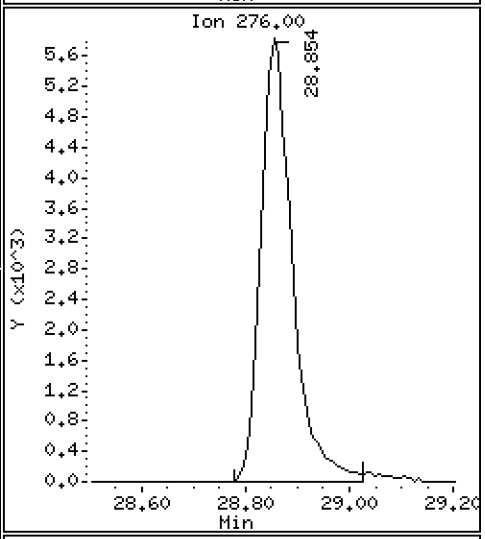
79 Dibenzo(a,h)anthracene

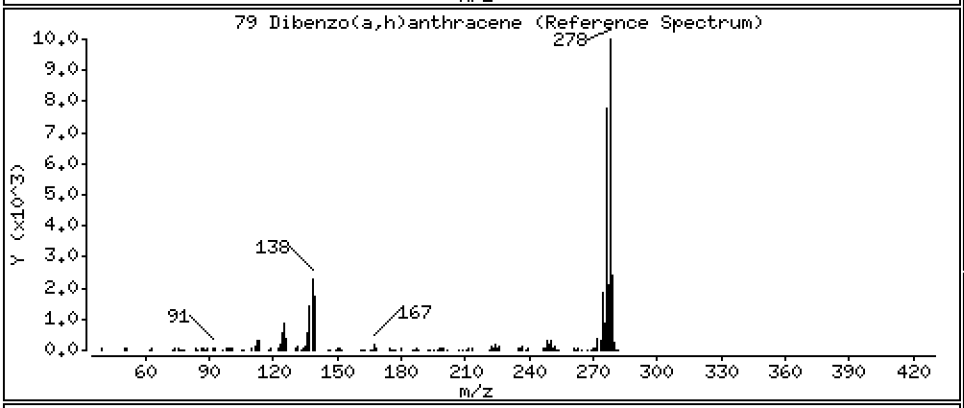
Concentration: 0.3297 ug/mL

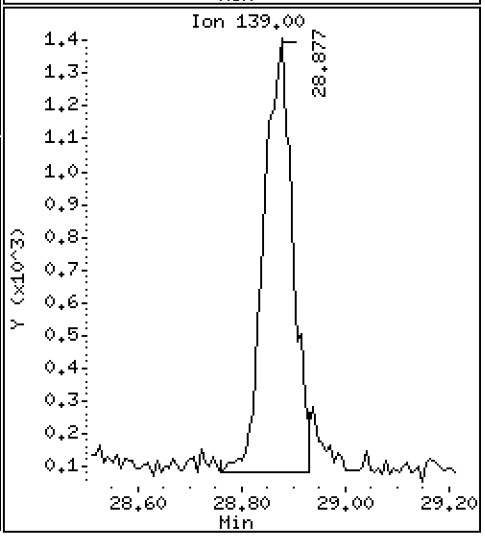


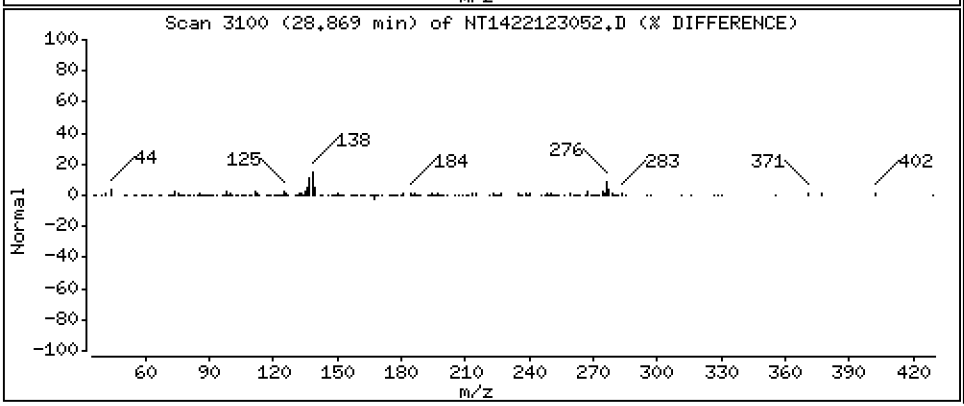












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

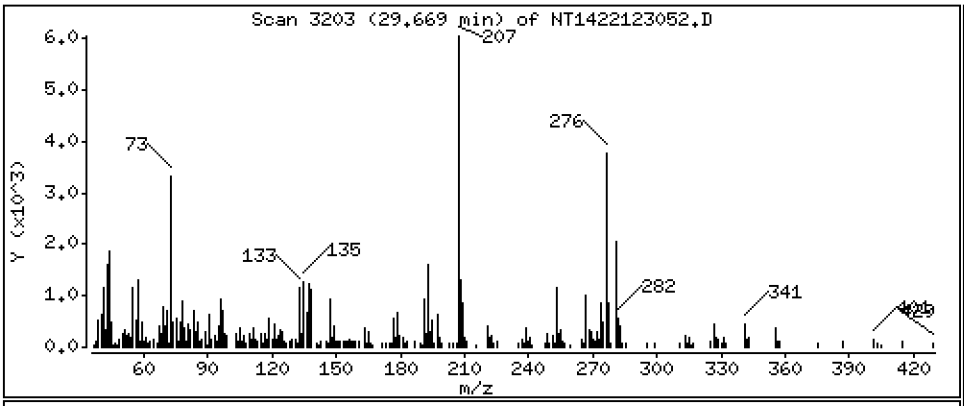
Operator: VTS

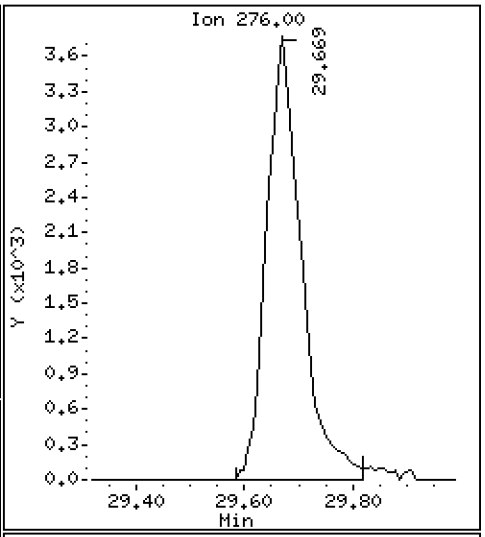
Column phase: ZB-5msi

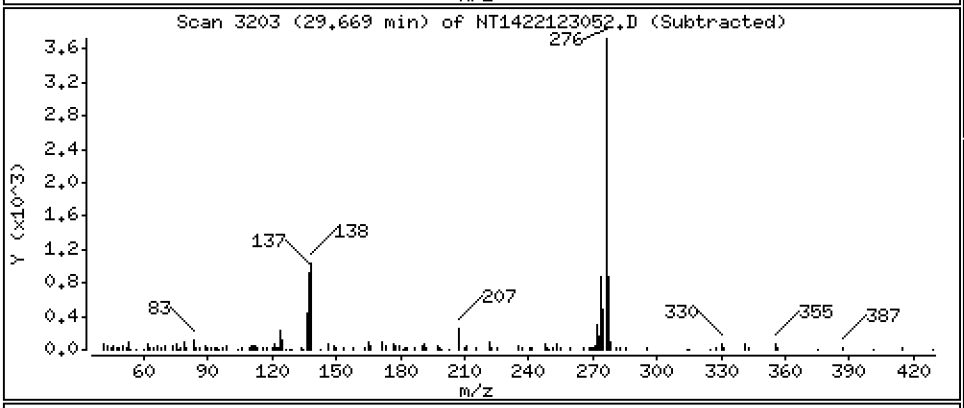
Column diameter: 0.25

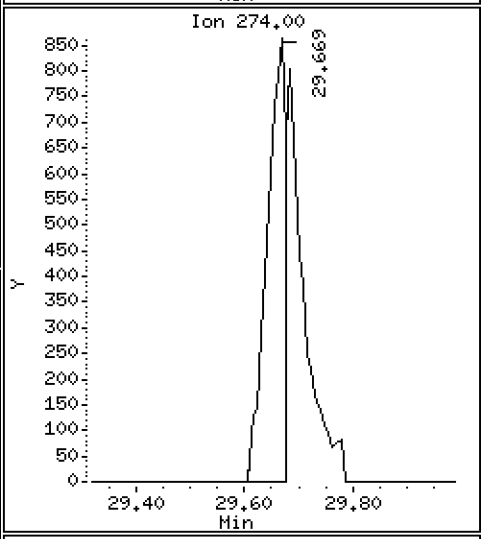
80 Benzo(g,h,i)perylene

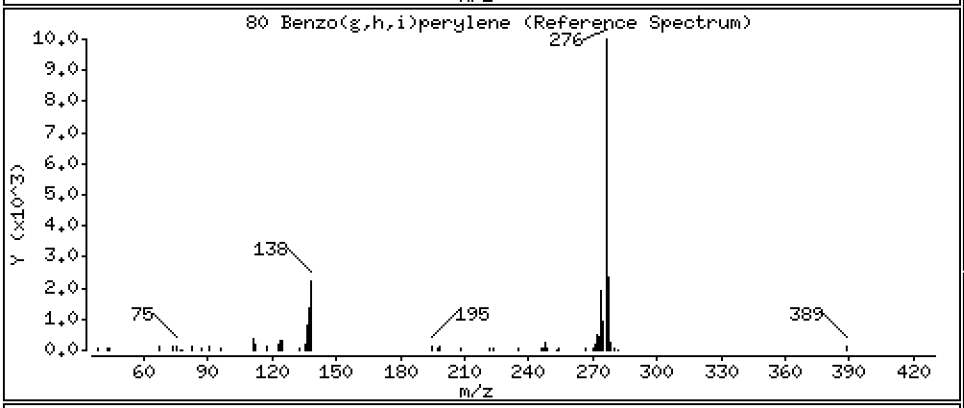
Concentration: 0.2675 ug/mL

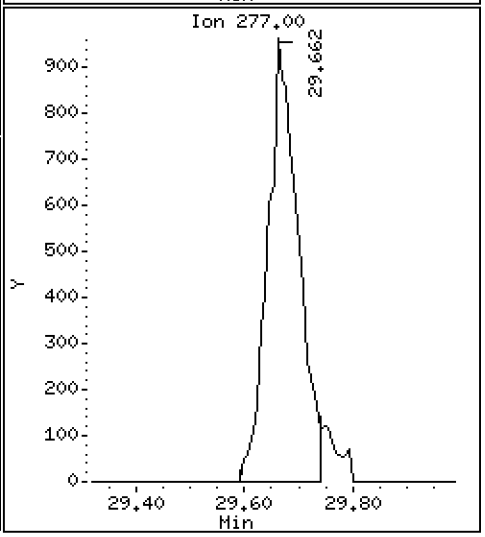


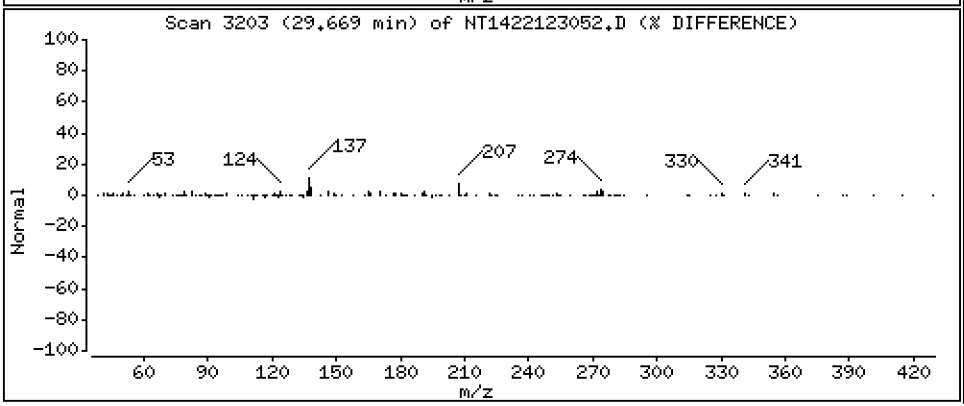












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

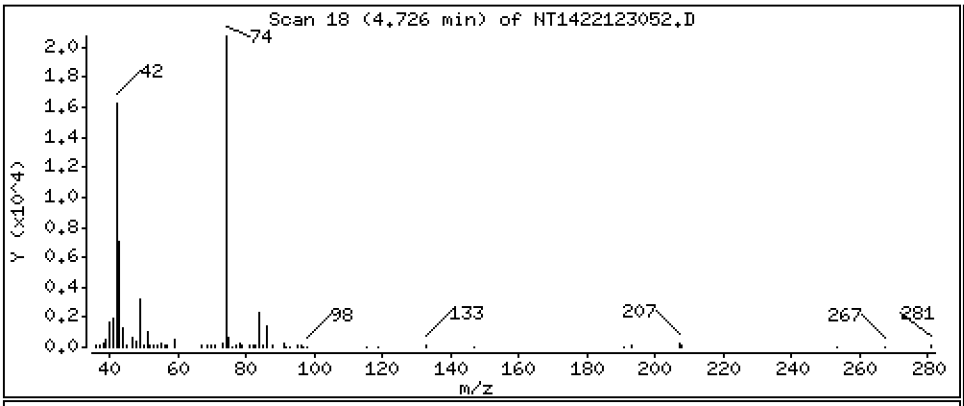
Operator: VTS

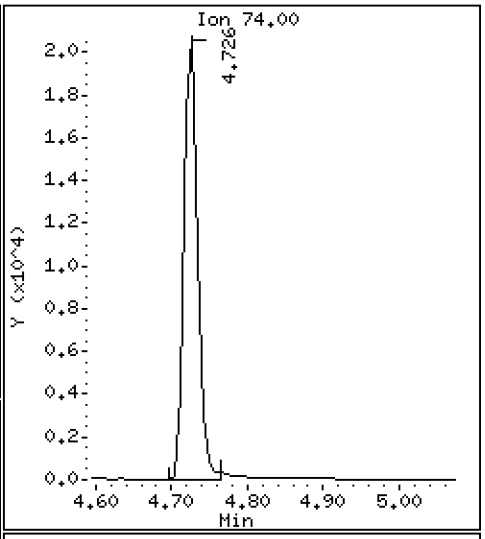
Column phase: ZB-5msi

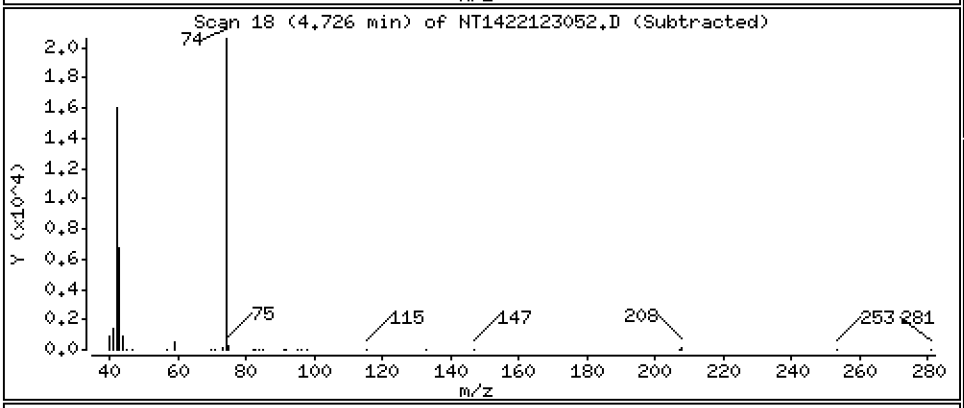
Column diameter: 0.25

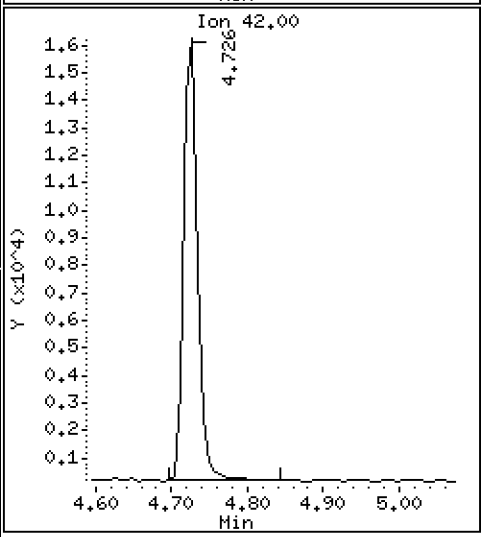
90 N-Nitrosodimethylamine

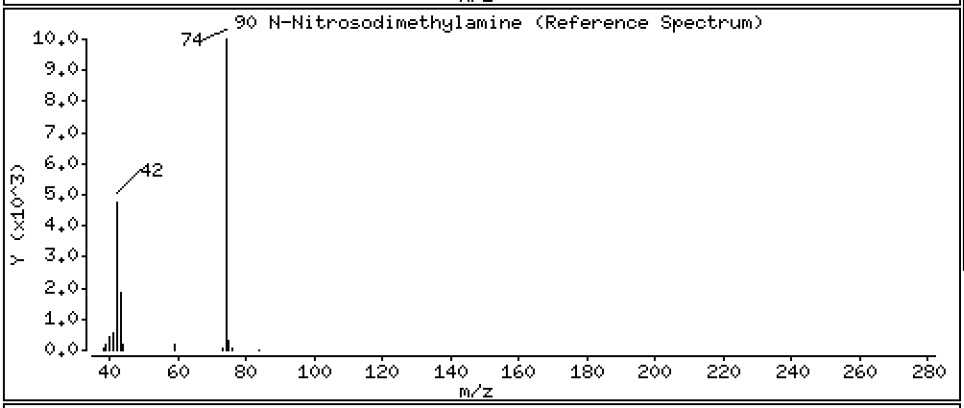
Concentration: 1.002 ug/mL

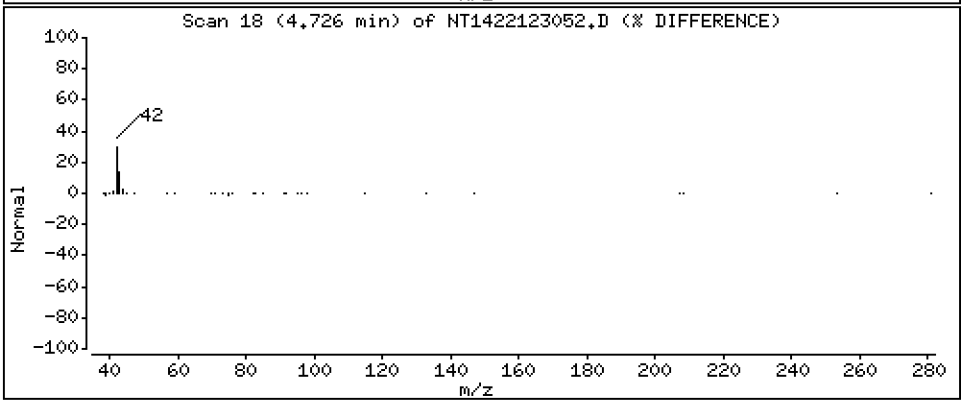












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123052.D

Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

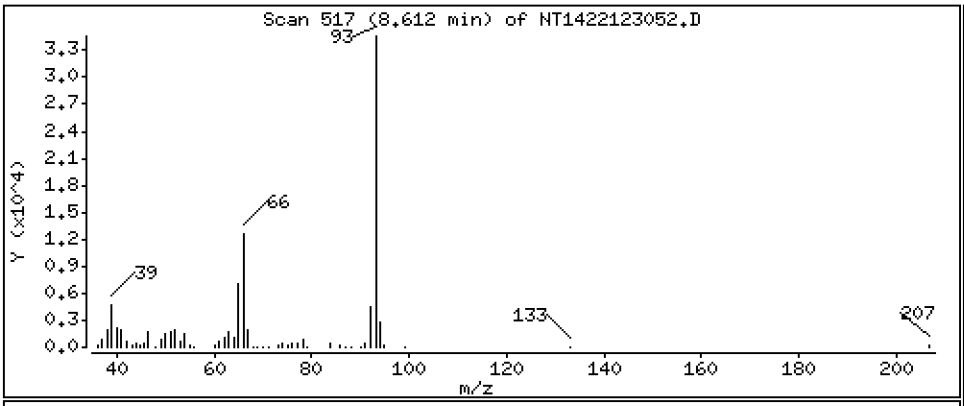
Operator: VTS

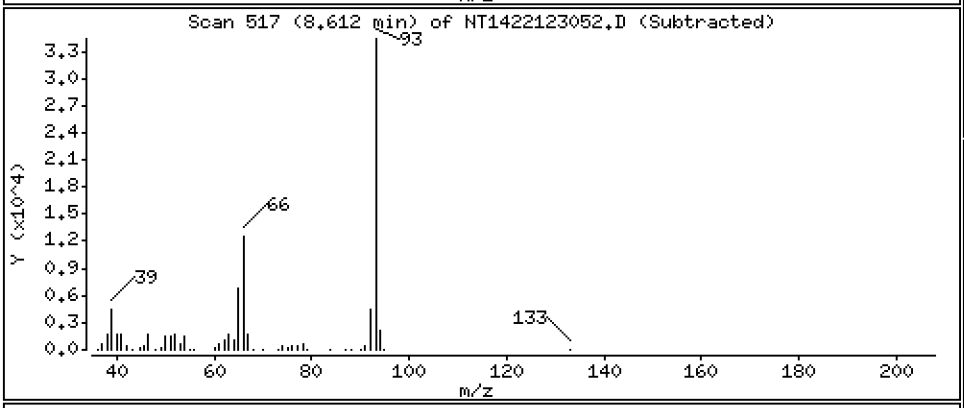
Column phase: ZB-5msi

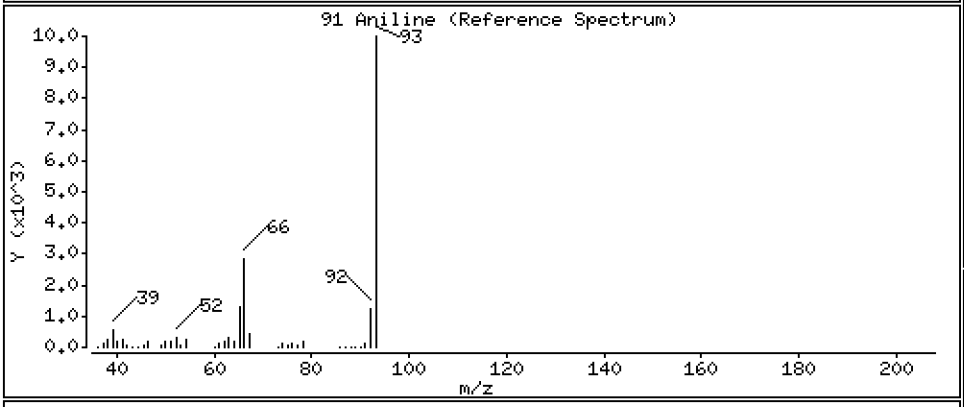
Column diameter: 0.25

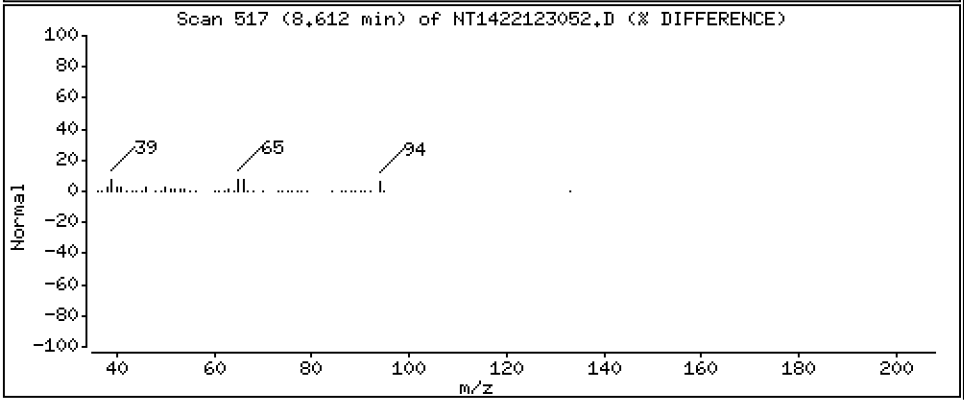
91 Aniline

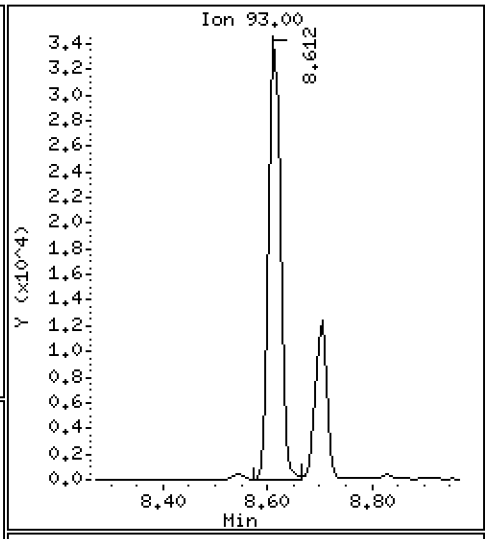
Concentration: 0.9702 ug/mL

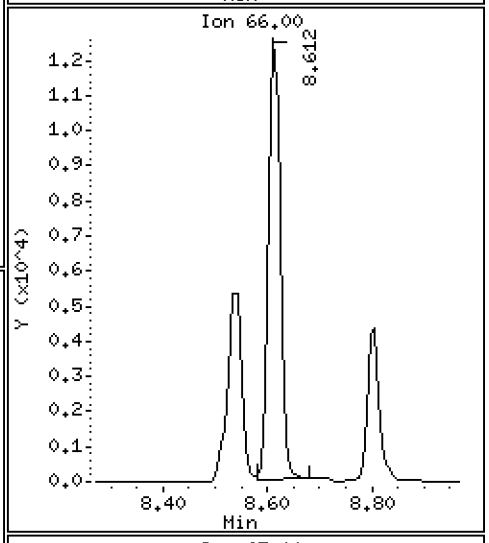


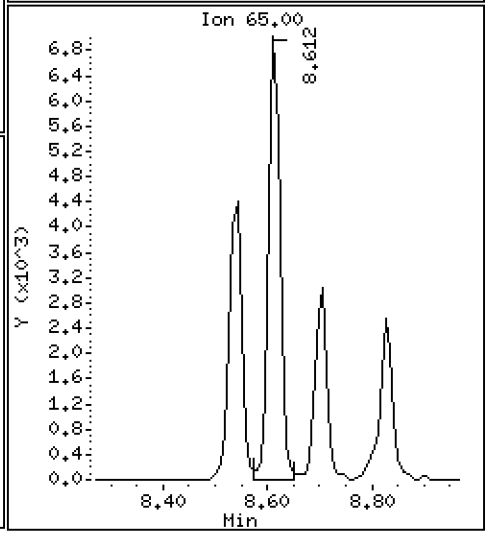












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

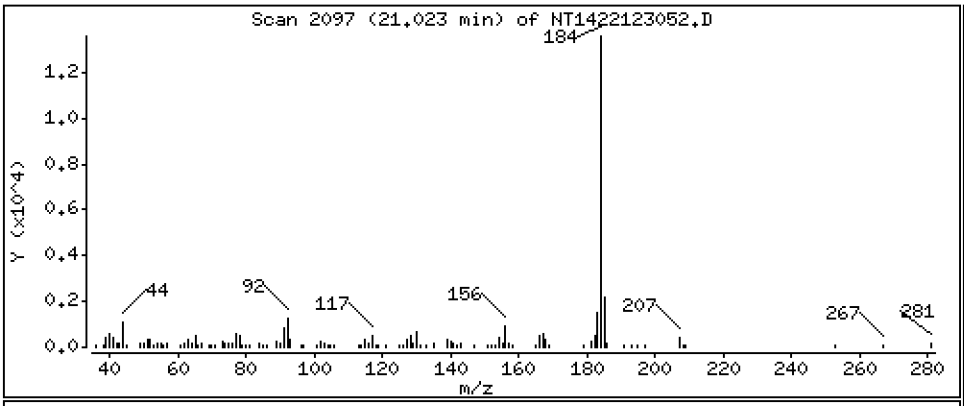
Operator: VTS

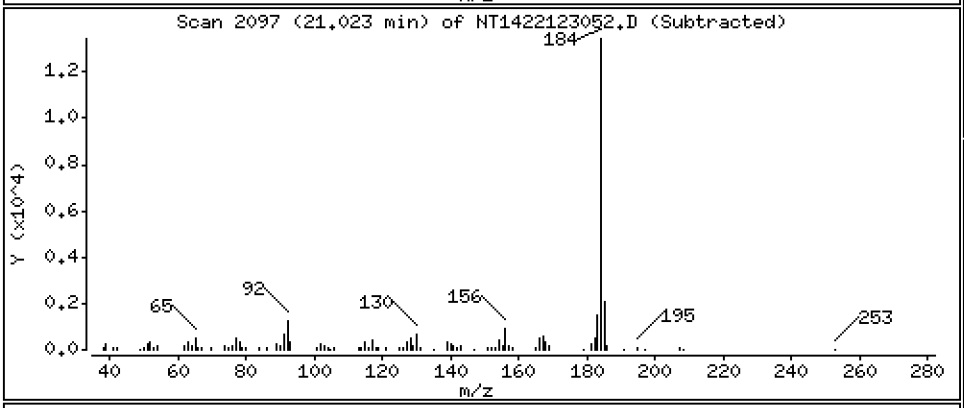
Column phase: ZB-5msi

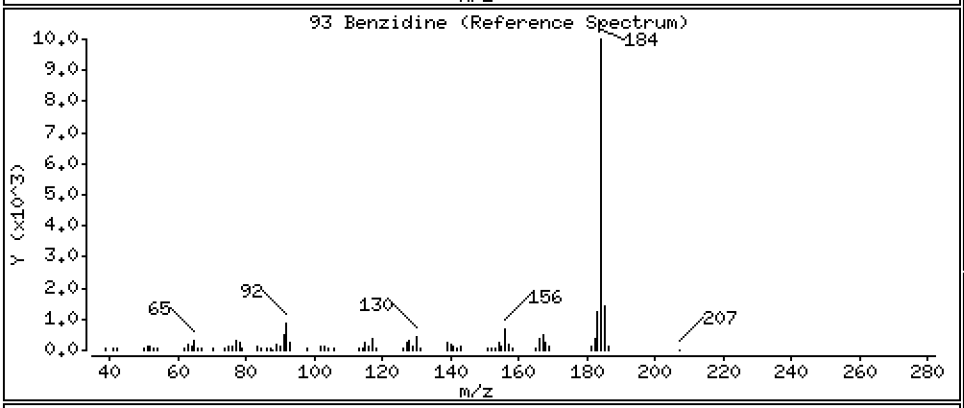
Column diameter: 0.25

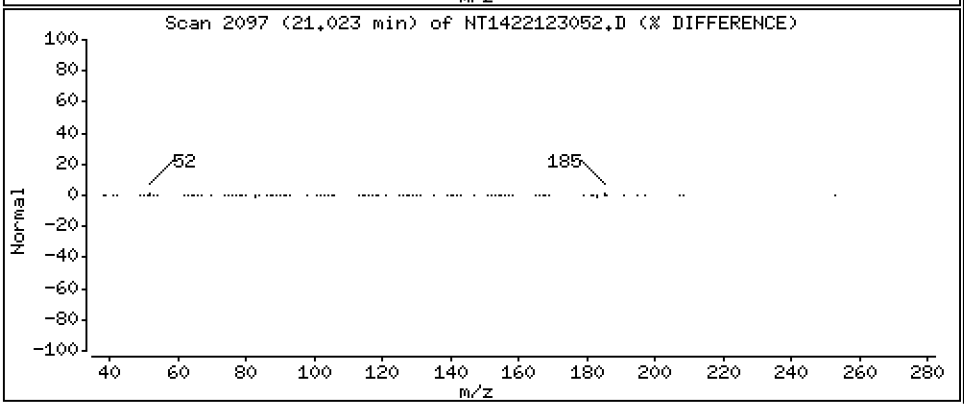
93 Benzidine

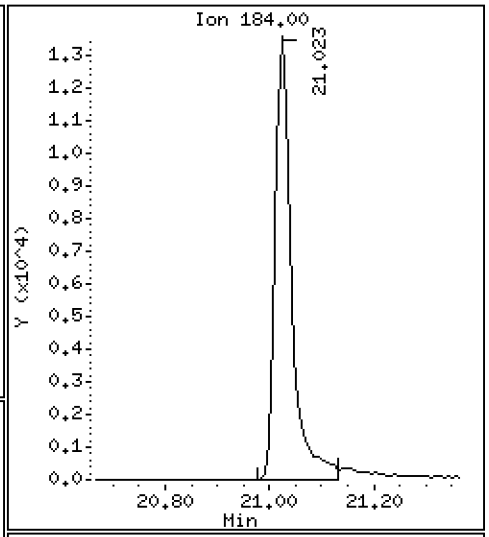
Concentration: 0.8039 ug/mL

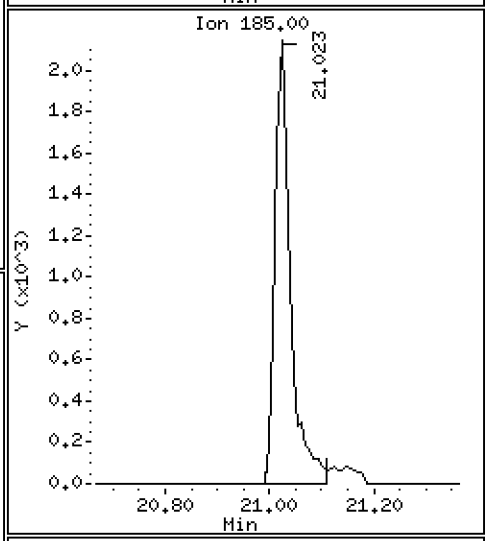


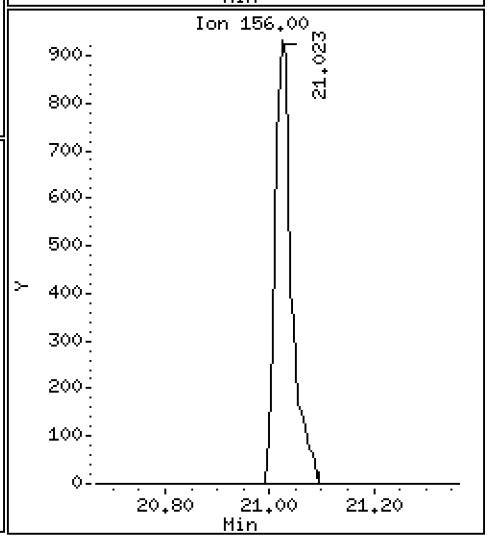












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123052.D

Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

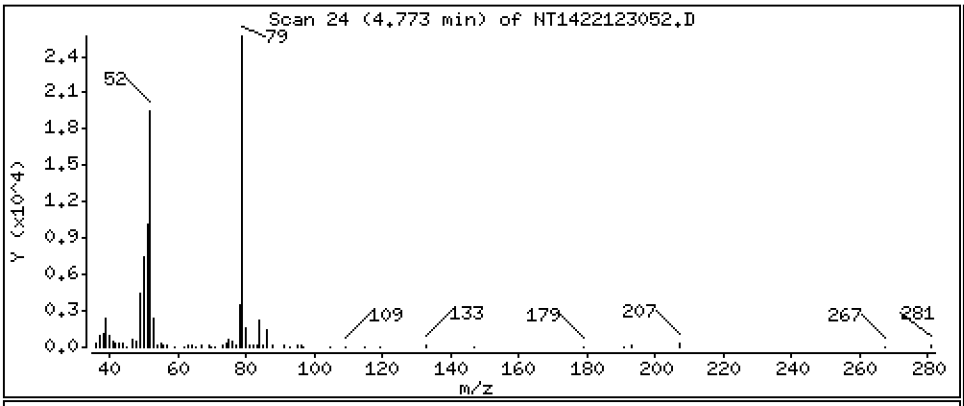
Operator: VTS

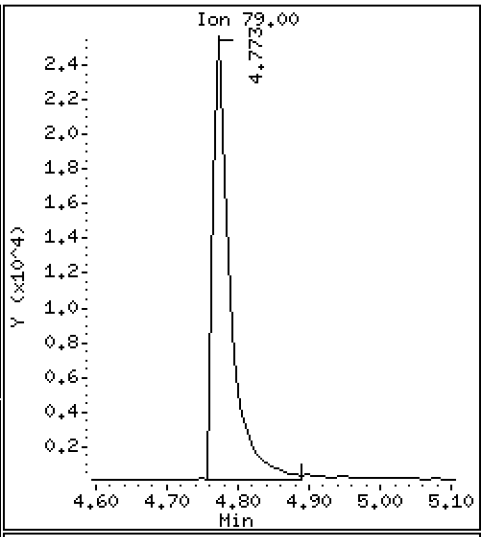
Column phase: ZB-5msi

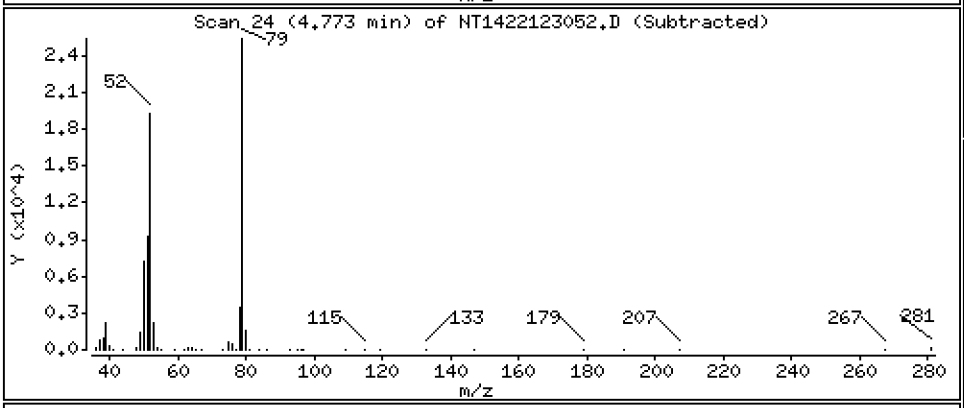
Column diameter: 0.25

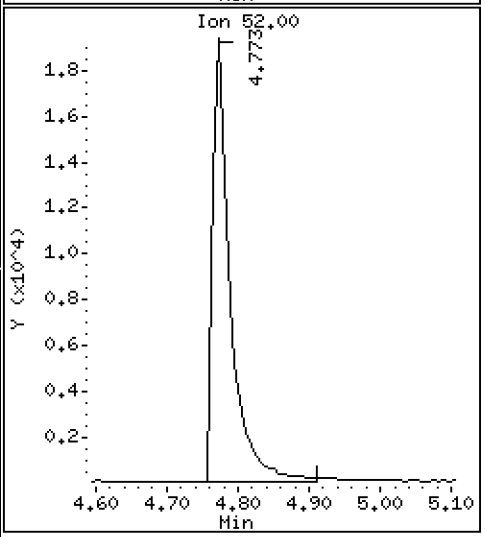
103 Pyridine

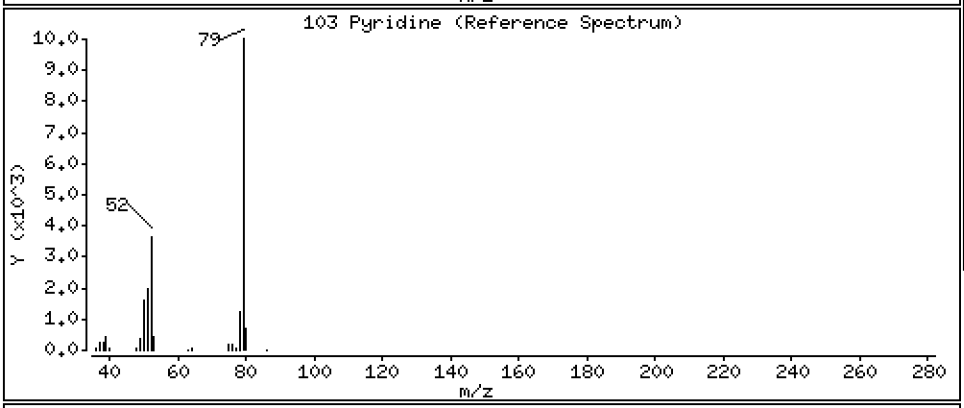
Concentration: 0.5100 ug/mL

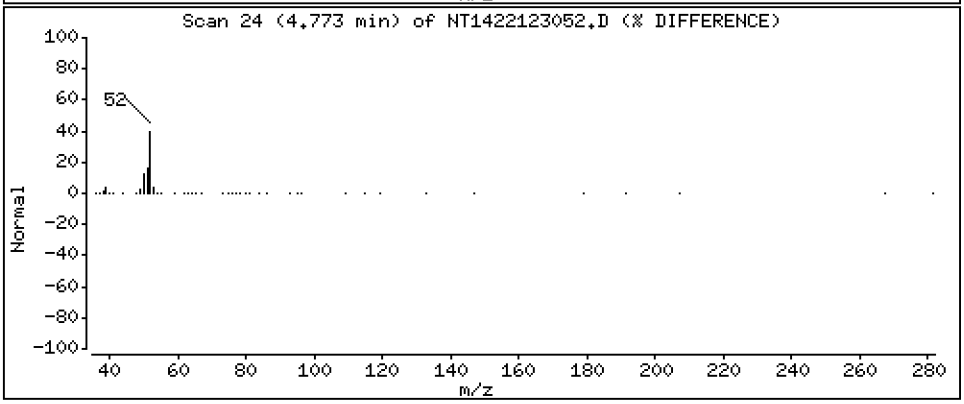












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123052.D

Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

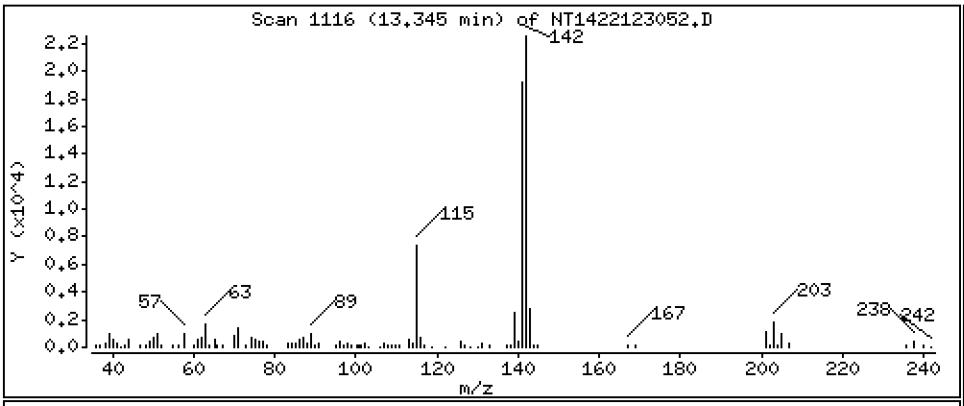
Operator: VTS

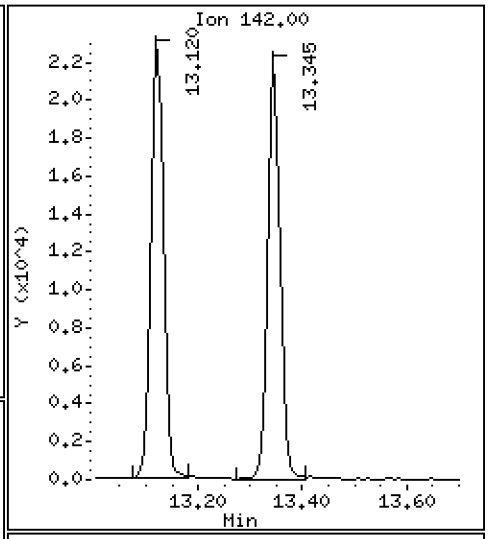
Column phase: ZB-5msi

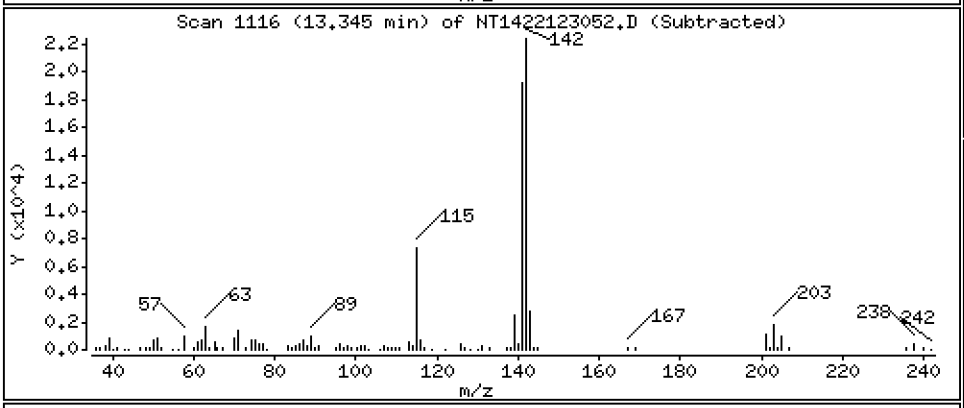
Column diameter: 0.25

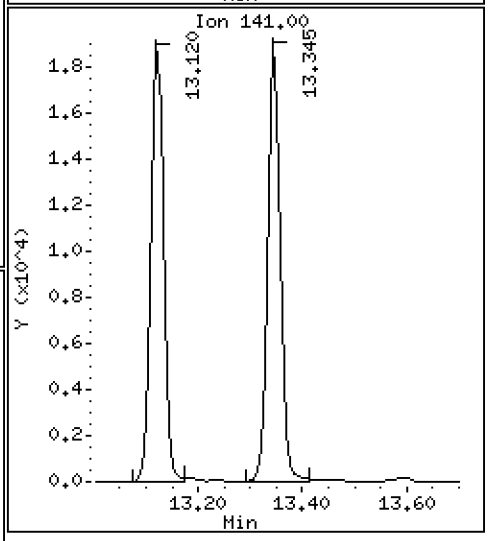
105 1-methylnaphthalene

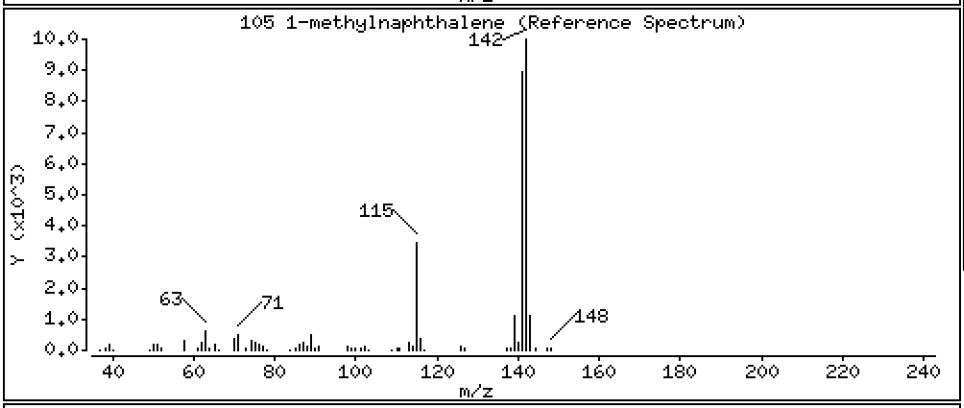
Concentration: 0.4765 ug/mL

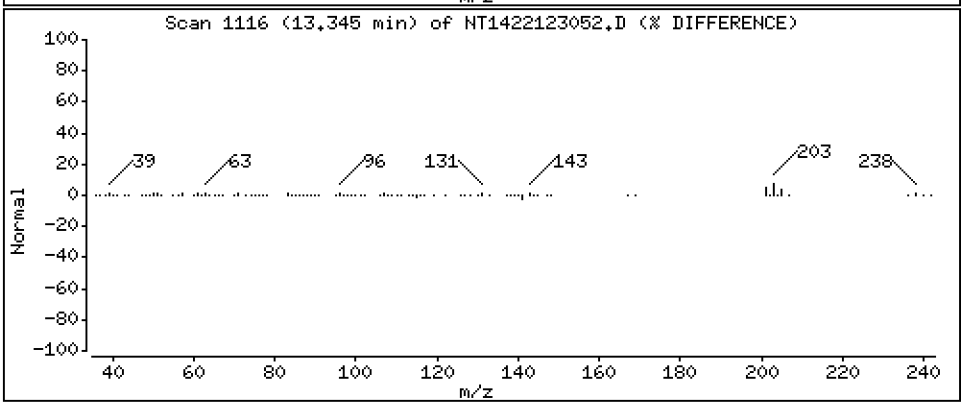












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123052.D

Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

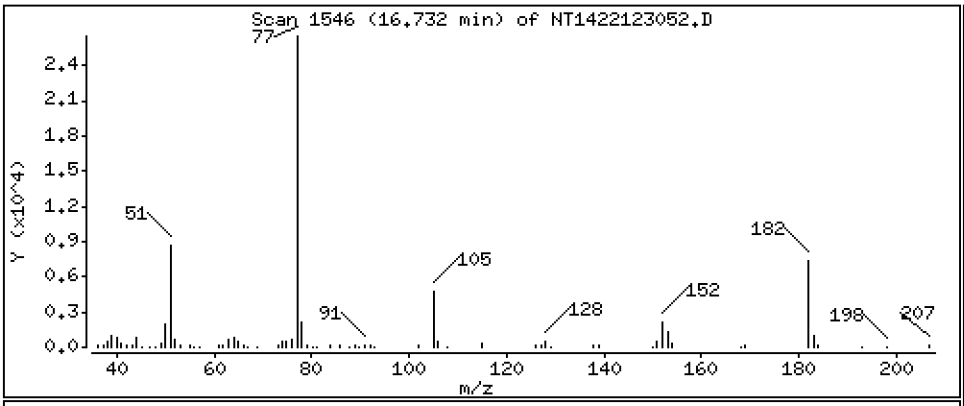
Operator: VTS

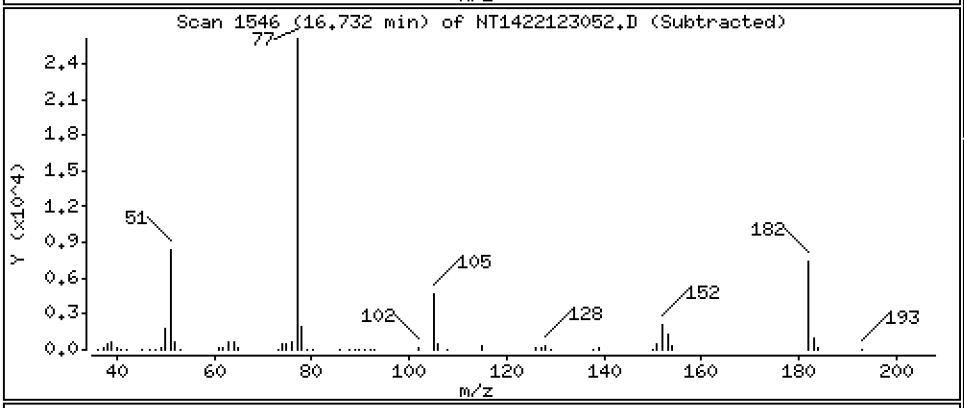
Column phase: ZB-5msi

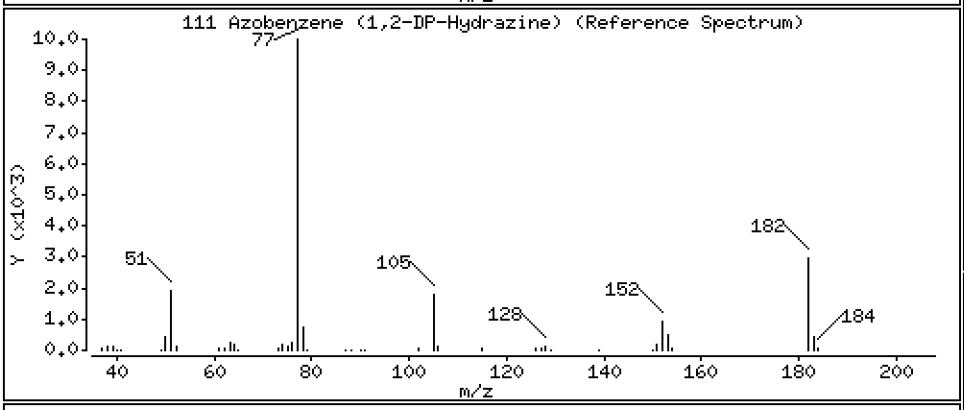
Column diameter: 0.25

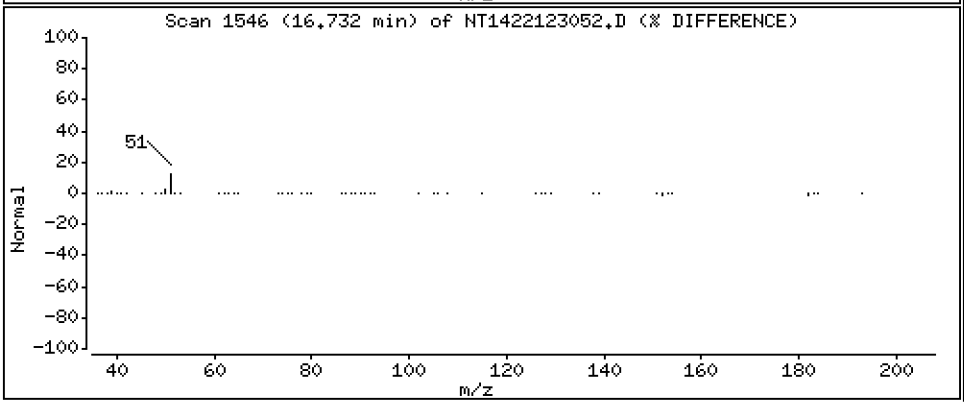
111 Azobenzene (1,2-DP-Hydrazine)

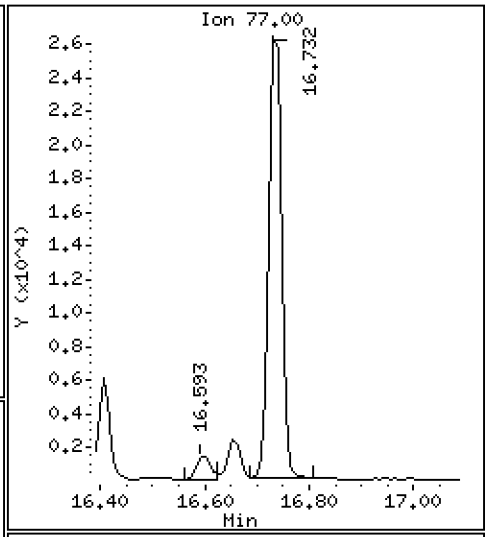
Concentration: 0.5124 ug/mL

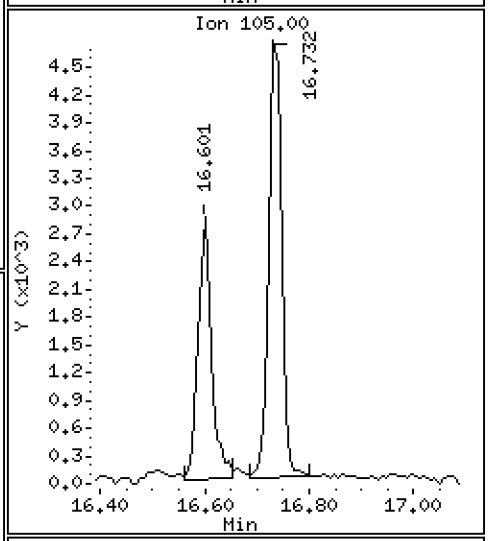


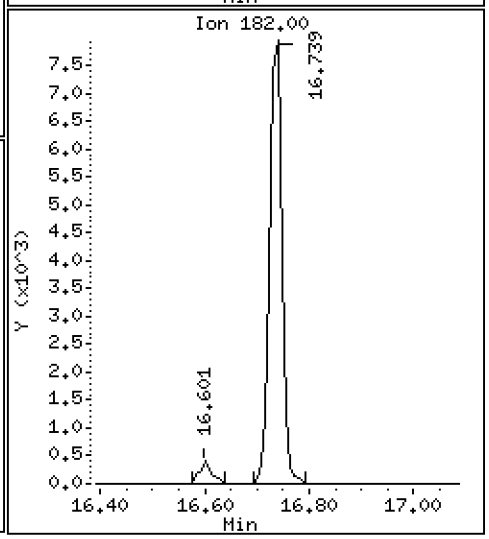












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

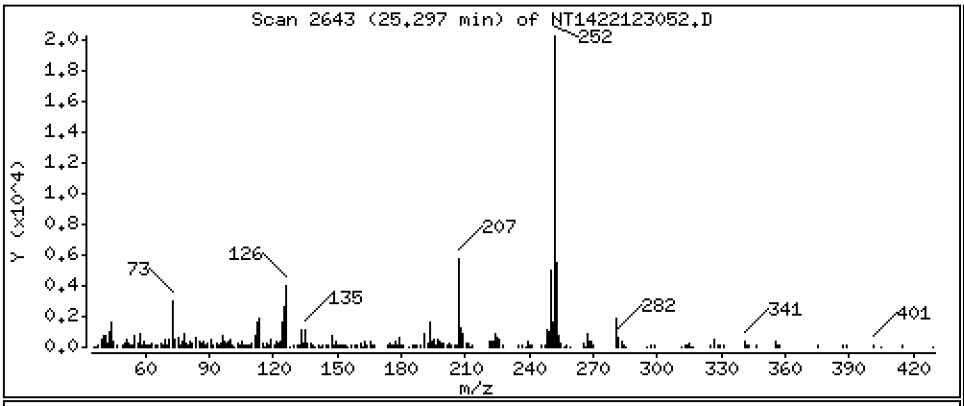
Operator: VTS

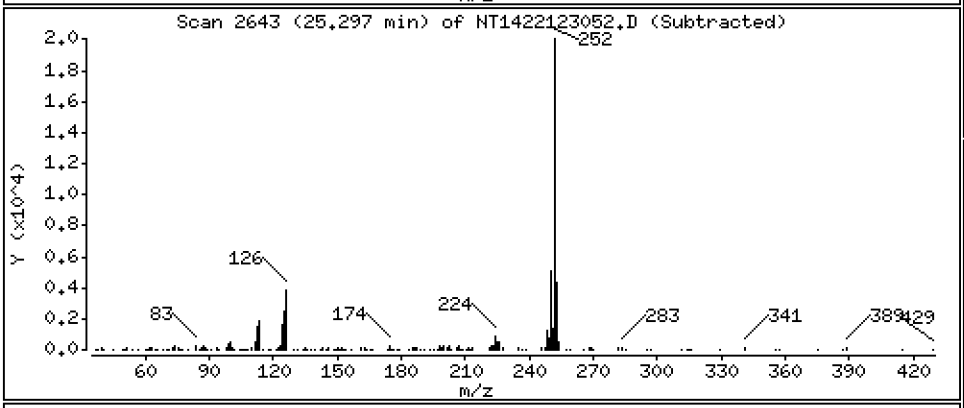
Column phase: ZB-5msi

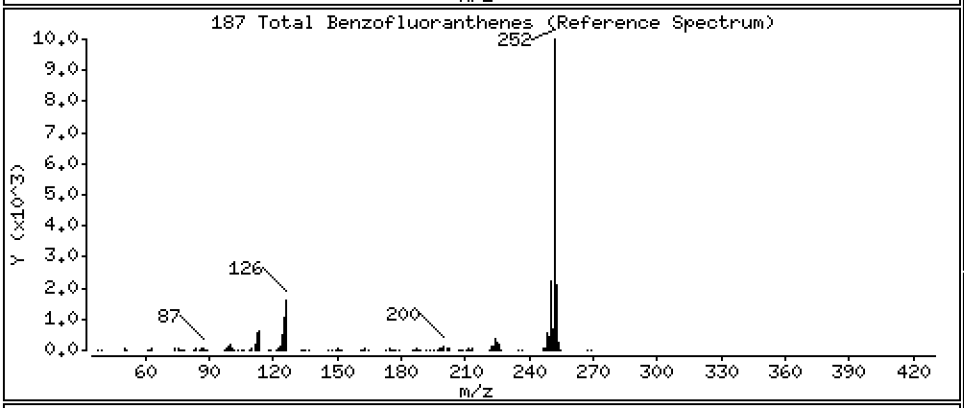
Column diameter: 0.25

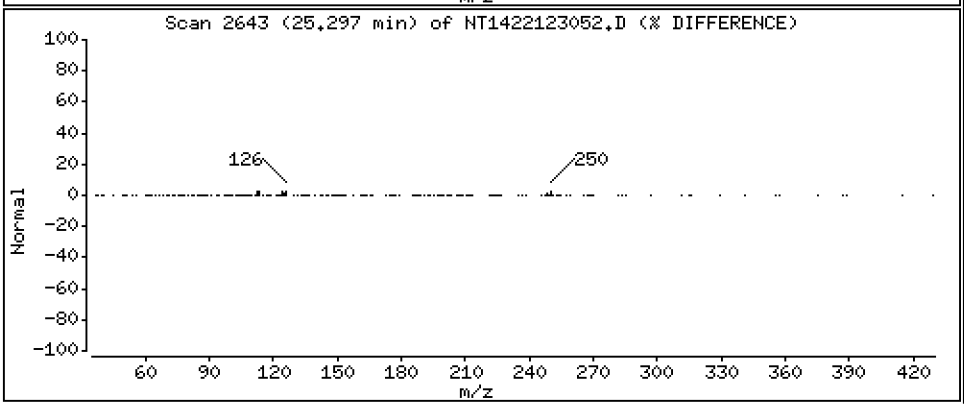
187 Total Benzofluoranthenes

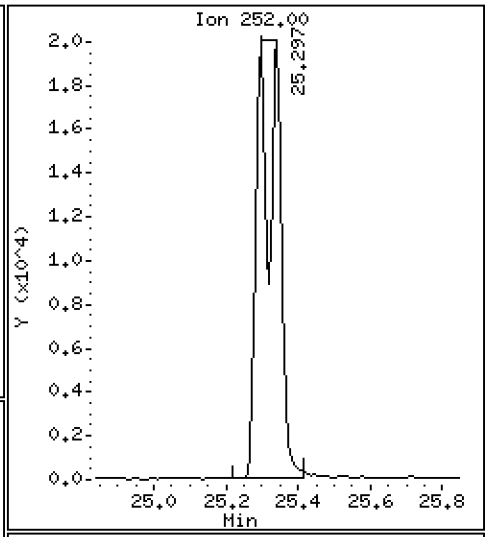
Concentration: 1.022 ug/mL

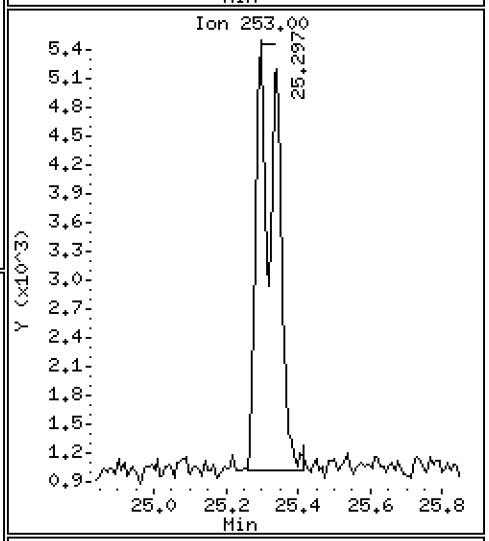


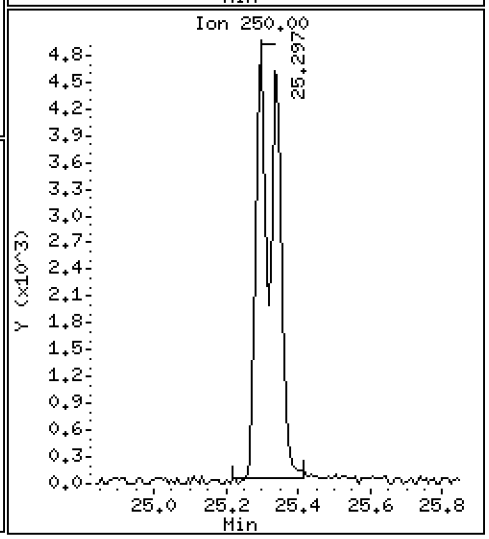












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123052.D

Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

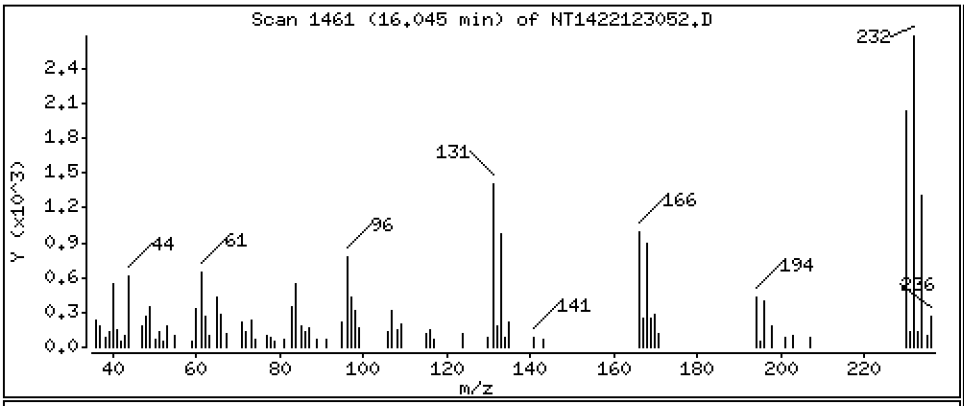
Operator: VTS

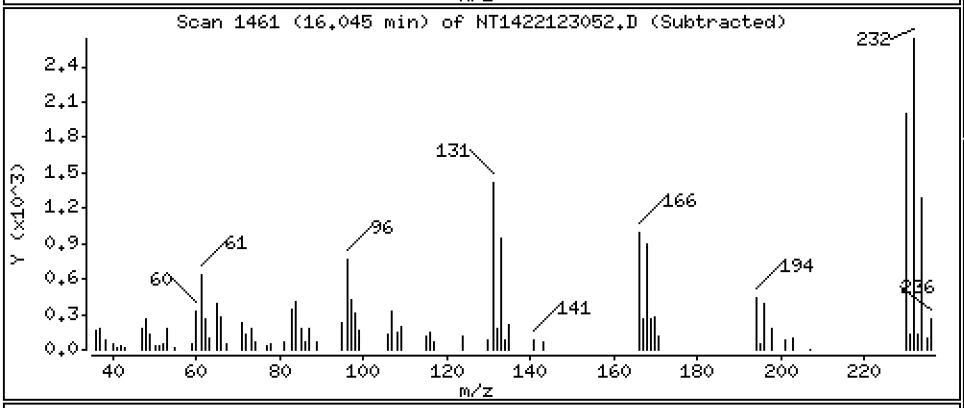
Column phase: ZB-5msi

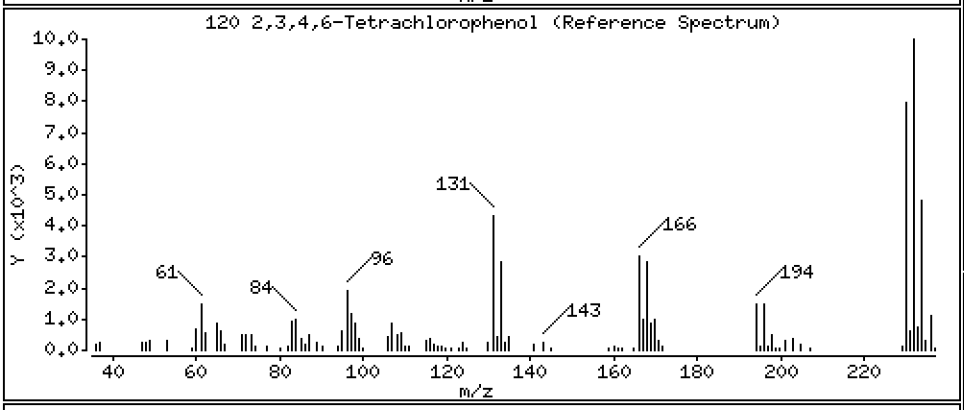
Column diameter: 0.25

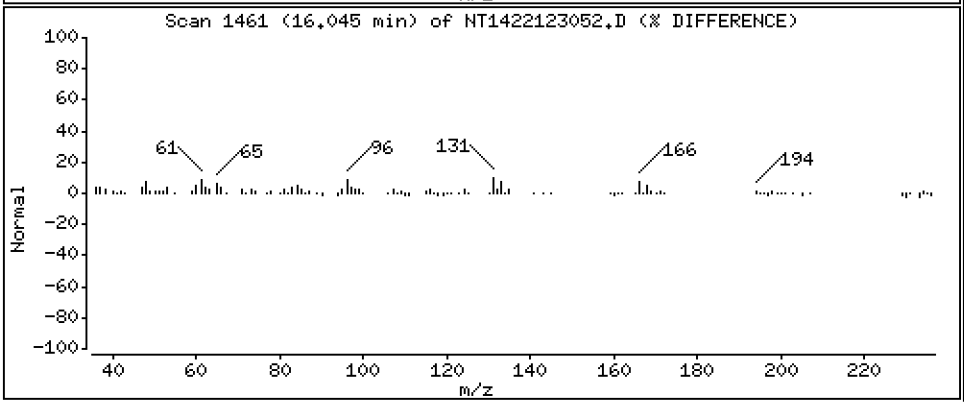
120 2,3,4,6-Tetrachlorophenol

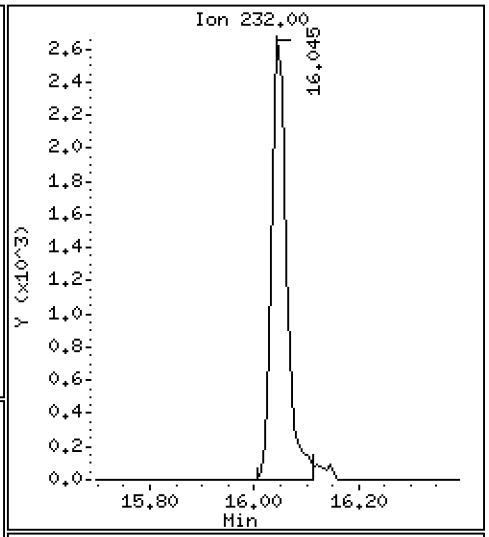
Concentration: 0.3296 ug/mL

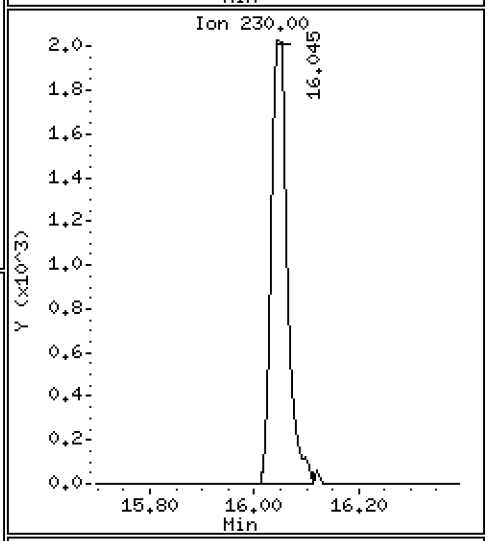


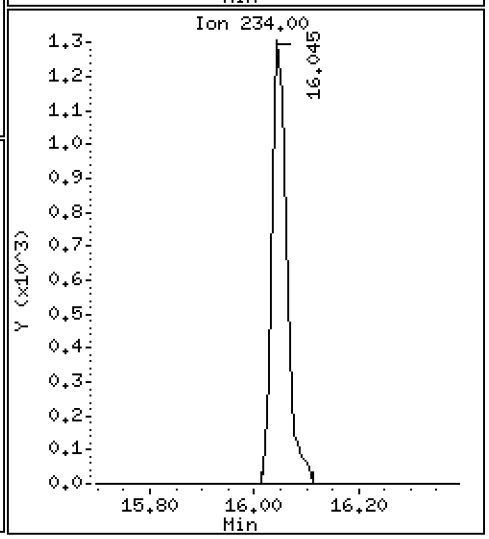












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230B.b\NT1422123052.D
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Inj Date : 31-DEC-2022 15:05 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0356-LCV2
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230B.b\ABN.m
Meth Date : 04-Jan-2023 08:43 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.919	6.927	(0.755)	27373	0.71127	0.7113
$	2 Phenol-d5	99	8.519	8.519	(0.929)	31285	0.65780	0.6578
	3 Phenol	94	8.542	8.542	(0.932)	26016	0.48140	0.4814
$	5 2-Chlorophenol-d4	132	8.804	8.804	(0.960)	27396	0.68588	0.6859
	4 Bis(2-Chloroethyl)ether	93	8.704	8.704	(0.949)	18062	0.48518	0.4852
	6 2-Chlorophenol	128	8.828	8.835	(0.963)	22183	0.50569	0.5057
	7 1,3-Dichlorobenzene	146	9.106	9.106	(0.993)	23016	0.49479	0.4948
*	8 1,4-Dichlorobenzene-d4	152	9.168	9.168	(1.000)	120125	4.00000	
	9 1,4-Dichlorobenzene	146	9.199	9.199	(1.003)	21701	0.49244	0.4924
$	10 1,2-Dichlorobenzene-d4	152	9.533	9.533	(1.040)	12849	0.47066	0.4707
	12 1,2-Dichlorobenzene	146	9.556	9.564	(1.042)	20928	0.48424	0.4842
	11 Benzyl alcohol	108	9.440	9.440	(1.030)	9113	0.37879	0.3788
	14 2,2'-oxybis(1-Chloropropane)	121	9.742	9.743	(1.063)	5781	0.46137	0.4614(M)
	13 2-Methylphenol	108	9.665	9.665	(1.054)	18978	0.48328	0.4833
	17 Hexachloroethane	117	10.162	10.162	(1.108)	6042	0.37278	0.3728
	16 N-Nitroso-di-n-propylamine	70	9.999	9.999	(1.091)	11134	0.46544	0.4654
	15 4-Methylphenol	108	9.936	9.937	(1.084)	19666	0.47473	0.4747
$	18 Nitrobenzene-d5	82	10.262	10.270	(0.879)	16741	0.45978	0.4598
	19 Nitrobenzene	77	10.301	10.301	(0.882)	16782	0.46409	0.4641
	20 Isophorone	82	10.751	10.759	(0.921)	19898	0.43175	0.4317
	21 2-Nitrophenol	139	10.938	10.938	(0.937)	10095	0.45609	0.4561
	22 2,4-Dimethylphenol	107	10.992	10.992	(0.942)	37295	0.98819	0.9882
	23 Bis(2-Chloroethoxy)methane	93	11.186	11.186	(0.958)	17353	0.48401	0.4840
	24 Benzoic acid	105	11.093	11.201	(0.950)	7598	0.33063	0.3306
	25 2,4-Dichlorophenol	162	11.403	11.403	(0.977)	31564	0.99218	0.9922
	26 1,2,4-Trichlorobenzene	180	11.588	11.589	(0.993)	16567	0.48162	0.4816
*	27 Naphthalene-d8	136	11.673	11.681	(1.000)	431181	4.00000	
	28 Naphthalene	128	11.712	11.720	(1.003)	51400	0.48439	0.4844
	29 4-Chloroaniline	127	11.843	11.843	(1.015)	38062	0.86979	0.8698
	30 Hexachlorobutadiene	225	12.083	12.083	(1.035)	8038	0.47097	0.4710
	31 4-Chloro-3-methylphenol	107	12.810	12.810	(1.097)	28593	0.95242	0.9524
	32 2-Methylnaphthalene	142	13.120	13.128	(1.124)	36399	0.46764	0.4676
	33 Hexachlorocyclopentadiene	237	13.592	13.592	(0.888)	1798	0.10740	0.1074

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.747	13.747	(0.898)	16457	0.89033	0.8903
	35	2,4,5-Trichlorophenol	196	13.824	13.824	(0.903)	19186	0.89935	0.8994
$	36	2-Fluorobiphenyl	172	13.909	13.909	(0.909)	35317	0.47432	0.4743
	37	2-Chloronaphthalene	162	14.118	14.126	(0.922)	30923	0.48818	0.4882
	38	2-Nitroaniline	65	14.373	14.373	(0.939)	15325	0.92024	0.9202
	39	Dimethylphthalate	163	14.807	14.807	(0.967)	29080	0.46562	0.4656
	40	Acenaphthylene	152	14.993	15.000	(0.979)	51393	0.53211	0.5321
	41	2,6-Dinitrotoluene	165	14.938	14.946	(0.976)	12001	0.85147	0.8515
*	42	Acenaphthene-d10	164	15.310	15.318	(1.000)	221457	4.00000	
	43	3-Nitroaniline	138	15.232	15.233	(0.995)	13712	0.80043	0.8004
	44	Acenaphthene	153	15.379	15.379	(1.005)	29746	0.49655	0.4966
	45	2,4-Dinitrophenol	184	15.449	15.441	(1.009)	1736	0.14499	0.1450(M)
	46	Dibenzofuran	168	15.704	15.712	(1.026)	44263	0.49272	0.4927
	47	4-Nitrophenol	109	15.596	15.549	(1.019)	5313	0.64751	0.6475(M)
	48	2,4-Dinitrotoluene	165	15.758	15.758	(1.029)	15060	0.77878	0.7788
	50	Diethylphthalate	149	16.268	16.268	(1.063)	45617	0.53738	0.5374
	49	Fluorene	166	16.423	16.423	(1.073)	46218	0.48362	0.4836
	51	4-Chlorophenyl-phenylether	204	16.407	16.415	(1.072)	21450	0.45846	0.4585
	52	4-Nitroaniline	138	16.508	16.508	(1.078)	16356	0.79260	0.7926
	53	4,6-Dinitro-2-methylphenol	198	16.600	16.608	(0.904)	11325	0.75665	0.7566
	54	N-Nitrosodiphenylamine	169	16.654	16.662	(0.907)	31251	0.51126	0.5113
$	55	2,4,6-Tribromophenol	330	16.963	16.963	(1.108)	5569	0.53587	0.5359
	56	4-Bromophenyl-phenylether	248	17.418	17.418	(0.949)	11348	0.49028	0.4903
	57	Hexachlorobenzene	284	17.742	17.742	(0.966)	12447	0.49003	0.4900
	58	Pentachlorophenol	266	18.098	18.098	(0.986)	2476	0.22496	0.2250(M)
*	59	Phenanthrene-d10	188	18.361	18.369	(1.000)	356219	4.00000	
	60	Phenanthrene	178	18.408	18.415	(1.003)	45378	0.48858	0.4886
	61	Anthracene	178	18.500	18.508	(1.008)	41525	0.46834	0.4683
	62	Carbazole	167	18.833	18.833	(1.026)	39496	0.46078	0.4608
	63	Di-n-butylphthalate	149	19.622	19.622	(1.069)	41551	0.42863	0.4286
	64	Fluoranthene	202	20.791	20.798	(0.888)	44087	0.46433	0.4643
	65	Pyrene	202	21.216	21.224	(0.906)	46707	0.46787	0.4679
$	66	Terphenyl-d14	244	21.495	21.495	(0.918)	32135	0.45398	0.4540
	67	Butylbenzylphthalate	149	22.416	22.416	(0.958)	16717	0.44361	0.4436
	68	Benzo(a)anthracene	228	23.376	23.376	(0.999)	43313	0.48487	0.4849
*	69	Chrysene-d12	240	23.407	23.407	(1.000)	294883	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.322	23.330	(0.996)	40436	1.47869	1.479
	71	Chrysene	228	23.446	23.454	(1.002)	41334	0.48986	0.4899
	72	bis(2-Ethylhexyl)phthalate	149	23.430	23.438	(0.959)	22969	0.47045	0.4704
*	134	Di-n-octylphthalate-d4	153	24.429	24.429	(1.000)	439623	4.00000	
	73	Di-n-octylphthalate	149	24.437	24.437	(1.000)	51489	0.48792	0.4879
	74	Benzo(b)fluoranthene	252	25.296	25.304	(0.969)	40786	0.50793	0.5079
	75	Benzo(k)fluoranthene	252	25.343	25.343	(0.971)	42127	0.51546	0.5155
	76	Benzo(a)pyrene	252	25.970	25.978	(0.995)	33479	0.50154	0.5015
*	77	Perylene-d12	264	26.094	26.094	(1.000)	255506	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.853	28.854	(1.106)	24548	0.32350	0.3235
	79	Dibenzo(a,h)anthracene	278	28.869	28.861	(1.106)	21258	0.32967	0.3297
	80	Benzo(g,h,i)perylene	276	29.669	29.669	(1.137)	17003	0.26748	0.2675
	90	N-Nitrosodimethylamine	74	4.726	4.726	(0.516)	26563	1.00220	1.002
	91	Aniline	93	8.611	8.619	(0.939)	51051	0.97019	0.9702
	93	Benzidine	184	21.023	21.015	(0.898)	29087	0.80389	0.8039
	103	Pyridine	79	4.772	4.757	(0.521)	42950	0.50997	0.5100
	105	1-methylnaphthalene	142	13.344	13.352	(1.143)	35633	0.47646	0.4765
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.731	16.739	(1.093)	42141	0.51242	0.5124

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.296	25.343	(0.969)	79350	1.02214	1.022
120 2,3,4,6-Tetrachlorophenol	232	16.044	16.044	(1.048)	5147	0.32962	0.3296

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123052.D
Lab Smp Id: SKL0356-LCV2
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230B.b\ABN.m
Misc Info:

Calibration Date: 31-DEC-2022
Calibration Time: 13:17
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	134439	67220	268878	120125	-10.65
27 Naphthalene-d8	492388	246194	984776	431181	-12.43
42 Acenaphthene-d10	270679	135340	541358	221457	-18.18
59 Phenanthrene-d10	429616	214808	859232	356219	-17.08
69 Chrysene-d12	376030	188015	752060	294883	-21.58
134 Di-n-octylphthala	634628	317314	1269256	439623	-30.73
77 Perylene-d12	336225	168113	672450	255506	-24.01

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.17	8.67	9.67	9.17	-0.00
27 Naphthalene-d8	11.68	11.18	12.18	11.67	-0.07
42 Acenaphthene-d10	15.32	14.82	15.82	15.31	-0.05
59 Phenanthrene-d10	18.37	17.87	18.87	18.36	-0.04
69 Chrysene-d12	23.41	22.91	23.91	23.41	-0.00
134 Di-n-octylphthala	24.43	23.93	24.93	24.43	-0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	-0.00

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

REVIEW SUMMARY FOR FILE - NT1422123052.D

Lab ID: SKL0356-LCV2
nt14.i, 20221230B.b\ABN.m,   31-DEC-2022 15:05

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.950	0.959	-0.0087	Benzoic acid

RRT check based on Ccal File: NT1422123049.D

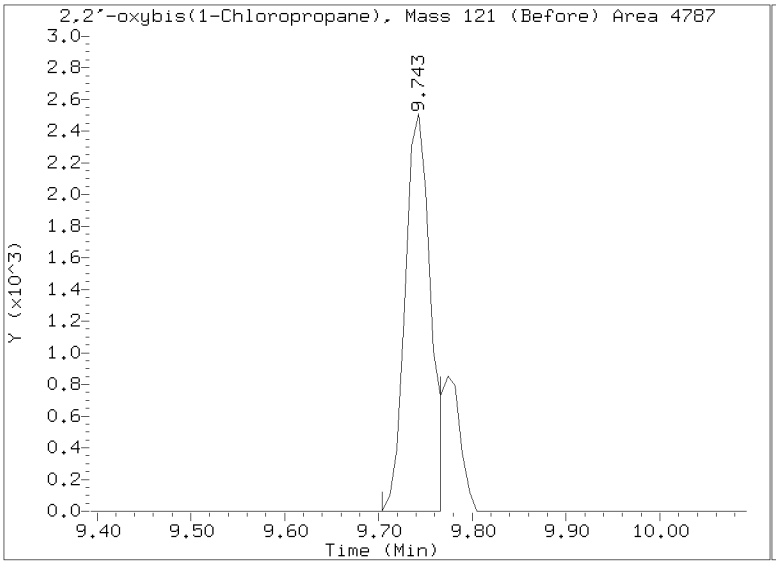
On Column LOD for nt14.i, 20221230B.b\ABN.m, ICAL.sub = 0.0000

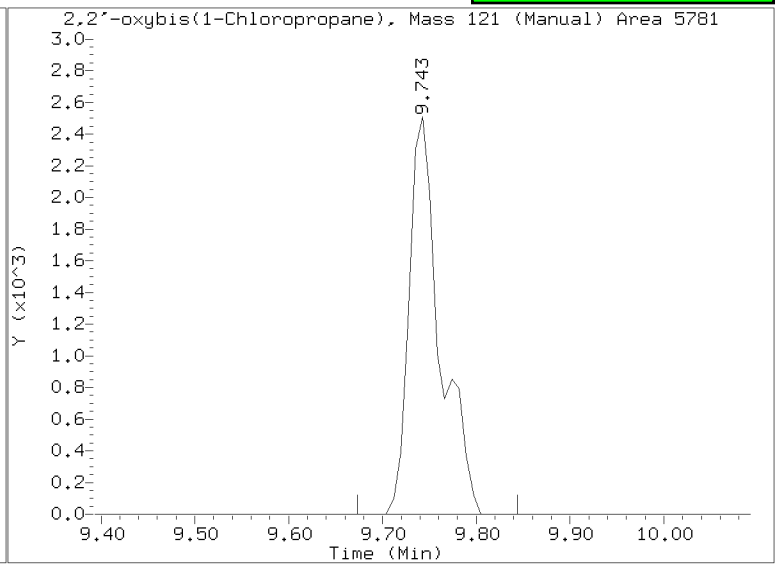
* Only compounds listed in the work order have been verified by the analyst *

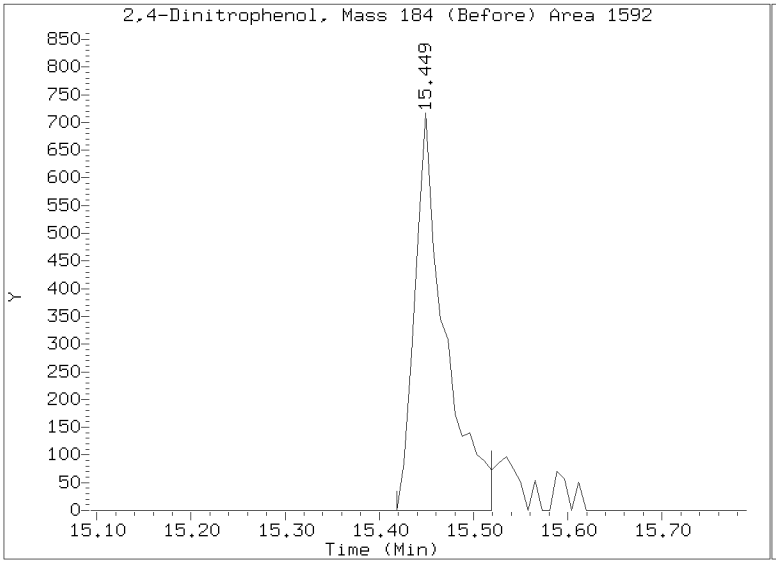
Quant Ion Manual Peak Adjustment Report

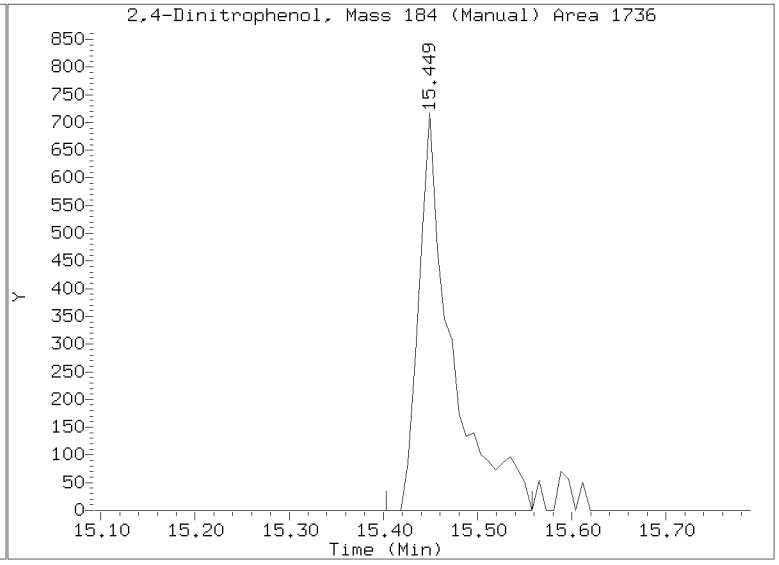
Datafile: //target/share/chem3/nt14.i/20221230B.b/NT1422123052.D
Injection Date: 31-DEC-2022 15:05
Lab ID:SKL0356-LCV2 Client ID:
Report Date: 01/04/2023 12:20

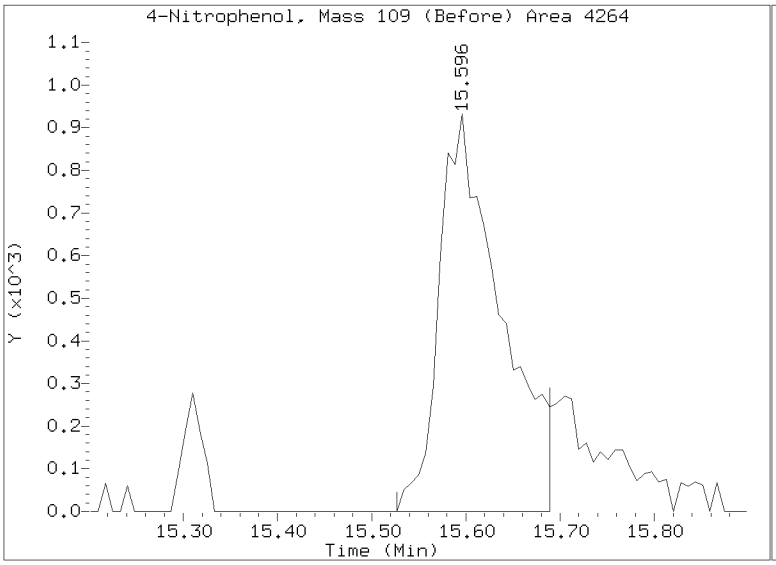
REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM

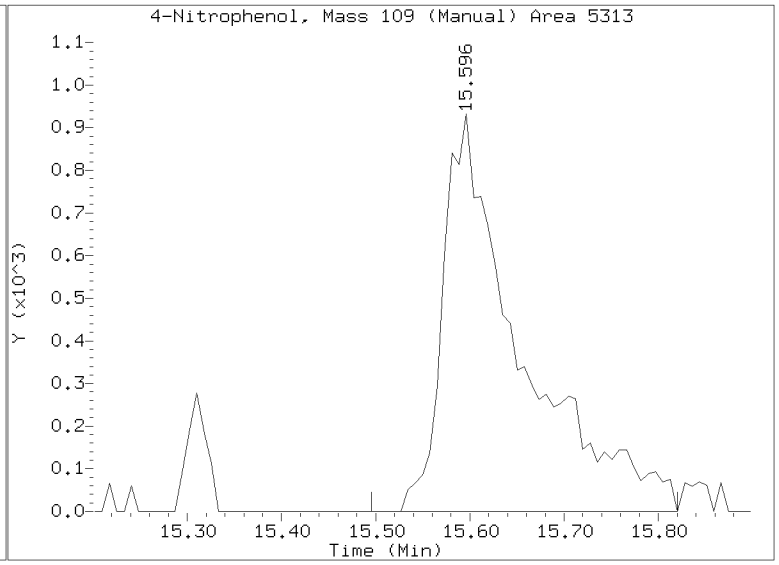












Quant Ion Manual Peak Adjustment Report

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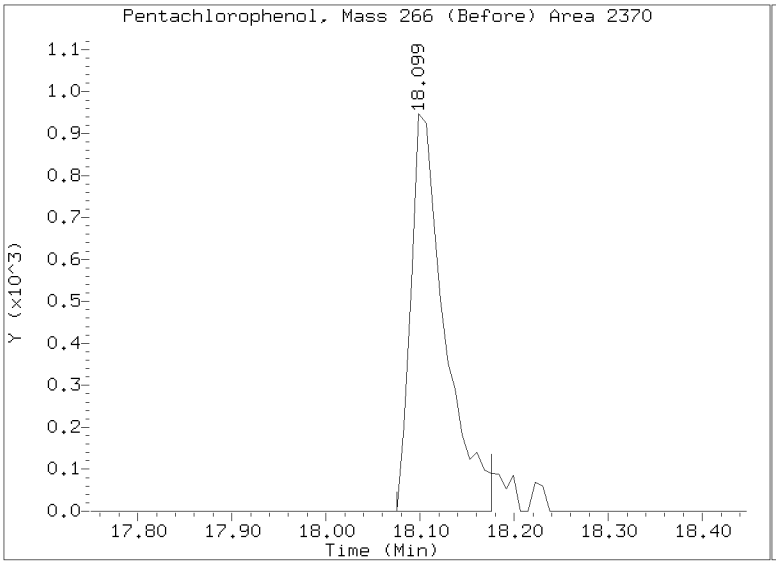
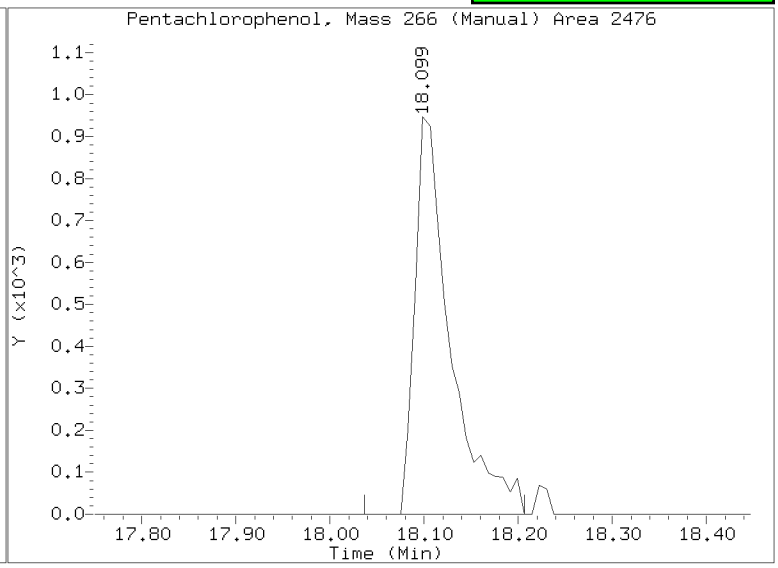
Injection Date: 31-DEC-2022 15:05
Lab ID:SKL0356-LCV2 Client ID:
Report Date: 01/04/2023 12:20

REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM





Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION CONTINUING CALIBRATION CHECK

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123067.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	01/01/23
Lab Sample ID:	SKL0355-LCV3	Injection Time:	00:06
Sequence Name:	ABN 0.2		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol	A	0.20000	0.2	1.7995200	2.0452070		13.7	+/-50
bis(2-chloroethyl) ether	A	0.20000	0.2	1.2396270	1.4830090		19.6	+/-50
2-Chlorophenol	A	0.20000	0.2	1.4607190	1.7978250		23.1	+/-50
1,3-Dichlorobenzene	A	0.20000	0.2	1.5489360	1.9130870		23.5	+/-50
1,4-Dichlorobenzene	A	0.20000	0.3	1.4674070	1.8357570		25.1	+/-50
1,2-Dichlorobenzene	A	0.20000	0.2	1.4391100	1.7415680		21.0	+/-50
Benzyl Alcohol	A	0.20000	0.2	0.8011083	0.6620672		-17.4	+/-50
2,2'-Oxybis(1-chloropropane)	A	0.20000	0.2	0.4172325	0.5070412		21.5	+/-50
2-Methylphenol	A	0.20000	0.2	1.3076140	1.4430610		10.4	+/-50
Hexachloroethane	A	0.20000	0.2	0.5396966	0.5341616		-1.0	+/-50
N-Nitroso-di-n-Propylamine	A	0.20000	0.2	0.7965591	0.9367527		17.6	+/-50
4-Methylphenol	A	0.20000	0.2	1.3794240	1.4340820		4.0	+/-50
Nitrobenzene	A	0.20000	0.2	0.3354574	0.3740281		11.5	+/-50
Isophorone	A	0.20000	0.2	0.4275424	0.4216317		-1.4	+/-50
2-Nitrophenol	A	0.20000	0.2	0.2064997	0.2168104		5.8	+/-50
2,4-Dimethylphenol	A	0.40000	0.5	0.3501131	0.4017339		14.7	+/-50
Bis(2-Chloroethoxy)methane	A	0.20000	0.2	0.3325989	0.3923643		18.0	+/-50
2,4-Dichlorophenol	A	0.40000	0.4	0.2951237	0.3025220		2.5	+/-50
1,2,4-Trichlorobenzene	A	0.20000	0.2	0.3191088	0.3830954		20.1	+/-50
Naphthalene	A	0.20000	0.2	0.9843833	1.1590590		17.7	+/-50
Benzoic acid	A	0.80000	0.2	0.1508906	0.0558775		-73.8	+/-50
4-Chloroaniline	A	0.40000	0.4	0.4059568	0.4111538		1.3	+/-50
Hexachlorobutadiene	A	0.20000	0.2	0.1583286	0.1883993		19.0	+/-50
4-Chloro-3-Methylphenol	A	0.40000	0.4	0.2785027	0.3012374		8.2	+/-50
2-Methylnaphthalene	A	0.20000	0.2	0.7220739	0.8194867		13.5	+/-50
Hexachlorocyclopentadiene	A	0.40000	0.04	0.3023695	0.0305562		-89.9	+/-50
2,4,6-Trichlorophenol	A	0.40000	0.3	0.3338641	0.2872967		-13.9	+/-50
2,4,5-Trichlorophenol	A	0.40000	0.4	0.3853234	0.3471848		-9.9	+/-50
2-Chloronaphthalene	A	0.20000	0.2	1.1441150	1.3420240		17.3	+/-50
2-Nitroaniline	A	0.40000	0.4	0.3007956	0.3230435		7.4	+/-50
Acenaphthylene	A	0.20000	0.2	1.7445240	1.9985900		14.6	+/-50
Dimethylphthalate	A	0.20000	0.2	1.1280520	1.2056960		6.9	+/-50
2,6-Dinitrotoluene	A	0.40000	0.4	0.2545771	0.2431273		-4.5	+/-50
Acenaphthene	A	0.20000	0.2	1.0820160	1.2755250		17.9	+/-50

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION CONTINUING CALIBRATION CHECK

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123067.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	01/01/23
Lab Sample ID:	SKL0355-LCV3	Injection Time:	00:06
Sequence Name:	ABN 0.2		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
3-Nitroaniline	A	0.40000	0.4	0.3094189	0.2756422		-10.9	+/-50
2,4-Dinitrophenol	A	0.80000	0.0	0.1831718				+/-50
Dibenzofuran	A	0.20000	0.2	1.6225950	1.9513840		20.3	+/-50
4-Nitrophenol	A	0.40000	0.3	0.1384031	0.0992097		-33.0	+/-50
2,4-Dinitrotoluene	A	0.40000	0.3	0.3492859	0.2959151		-15.3	+/-50
Fluorene	A	0.20000	0.2	1.7261350	2.0141620		16.7	+/-50
4-Chlorophenylphenyl ether	A	0.20000	0.2	0.8450792	0.8935724		5.7	+/-50
Diethyl phthalate	A	0.20000	0.3	1.5332690	1.9895800		29.8	+/-50
4-Nitroaniline	A	0.40000	0.4	0.3413732	0.3480173		-6.5	+/-50
4,6-Dinitro-2-methylphenol	A	0.80000	0.09	0.1530278	0.0194293		-88.4	+/-50
N-Nitrosodiphenylamine	A	0.20000	0.3	0.6863845	0.8609555		25.4	+/-50
4-Bromophenyl phenyl ether	A	0.20000	0.2	0.2599074	0.2900591		11.6	+/-50
Hexachlorobenzene	A	0.20000	0.2	0.2852204	0.3377450		18.4	+/-50
Pentachlorophenol	A	0.40000	0.02	0.1128364	0.0062489		-94.9	+/-50
Phenanthrene	A	0.20000	0.2	1.0429190	1.2493590		19.8	+/-50
Anthracene	A	0.20000	0.2	0.9956202	1.1560500		16.1	+/-50
Carbazole	A	0.20000	0.2	0.9624945	1.1107300		15.4	+/-50
Di-n-Butylphthalate	A	0.20000	0.2	1.0394700	1.2348590		13.6	+/-50
Fluoranthene	A	0.20000	0.2	1.2879410	1.5332460		19.0	+/-50
Pyrene	A	0.20000	0.2	1.3541610	1.5802070		16.7	+/-50
Butylbenzylphthalate	A	0.20000	0.3	0.4650792	0.6893559		34.9	+/-50
Benzo(a)anthracene	A	0.20000	0.3	1.2117210	1.5989020		32.0	+/-50
3,3'-Dichlorobenzidine	A	0.60000	0.8	0.3709370	0.5065069		36.5	+/-50
Chrysene	A	0.20000	0.2	1.1445730	1.3899140		21.4	+/-50
bis(2-Ethylhexyl)phthalate	A	0.20000	0.3	0.4442323	0.5799243		30.5	+/-50
Di-n-Octylphthalate	A	0.20000	0.2	0.9601702	1.1806330		23.0	+/-50
Benzofluoranthenes, Total	A	0.40000	0.5	1.2153330	1.5993190		31.6	+/-50
Benzo(a)pyrene	A	0.20000	0.3	1.0450150	1.3188060		26.2	+/-50
Indeno(1,2,3-cd)pyrene	A	0.20000	0.1	1.1879490	0.8873690		-25.3	+/-50
Dibenzo(a,h)anthracene	A	0.20000	0.2	1.0094890	0.7614674		-24.6	+/-50
Benzo(g,h,i)perylene	A	0.20000	0.1	0.9951726	0.5264336		-47.1	+/-50
1-Methylnaphthalene	A	0.20000	0.2	0.6937882	0.7885066		13.7	+/-50
2-Fluorophenol	A	0.30000	0.357	1.2814900	1.5232620		18.9	+/-50
Phenol-d5	A	0.30000	0.312	1.5836890	1.6462810		4.0	+/-50

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION CONTINUING CALIBRATION CHECK

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123067.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	01/01/23
Lab Sample ID:	SKL0355-LCV3	Injection Time:	00:06
Sequence Name:	ABN 0.2		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2-Chlorophenol-d4	A	0.30000	0.337	1.3300510	1.4929650		12.3	+/-50
1,2-Dichlorobenzene-d4	A	0.20000	0.240	0.9090592	1.0925120		20.2	+/-50
Nitrobenzene-d5	A	0.20000	0.227	0.3377760	0.3825413		13.3	+/-50
2-Fluorobiphenyl	A	0.20000	0.223	1.3448860	1.4982320		11.4	+/-50
2,4,6-Tribromophenol	A	0.30000	0.225	0.1844845	0.1403103		-25.1	+/-50
p-Terphenyl-d14	A	0.20000	0.222	0.9601842	1.0669730		11.1	+/-50

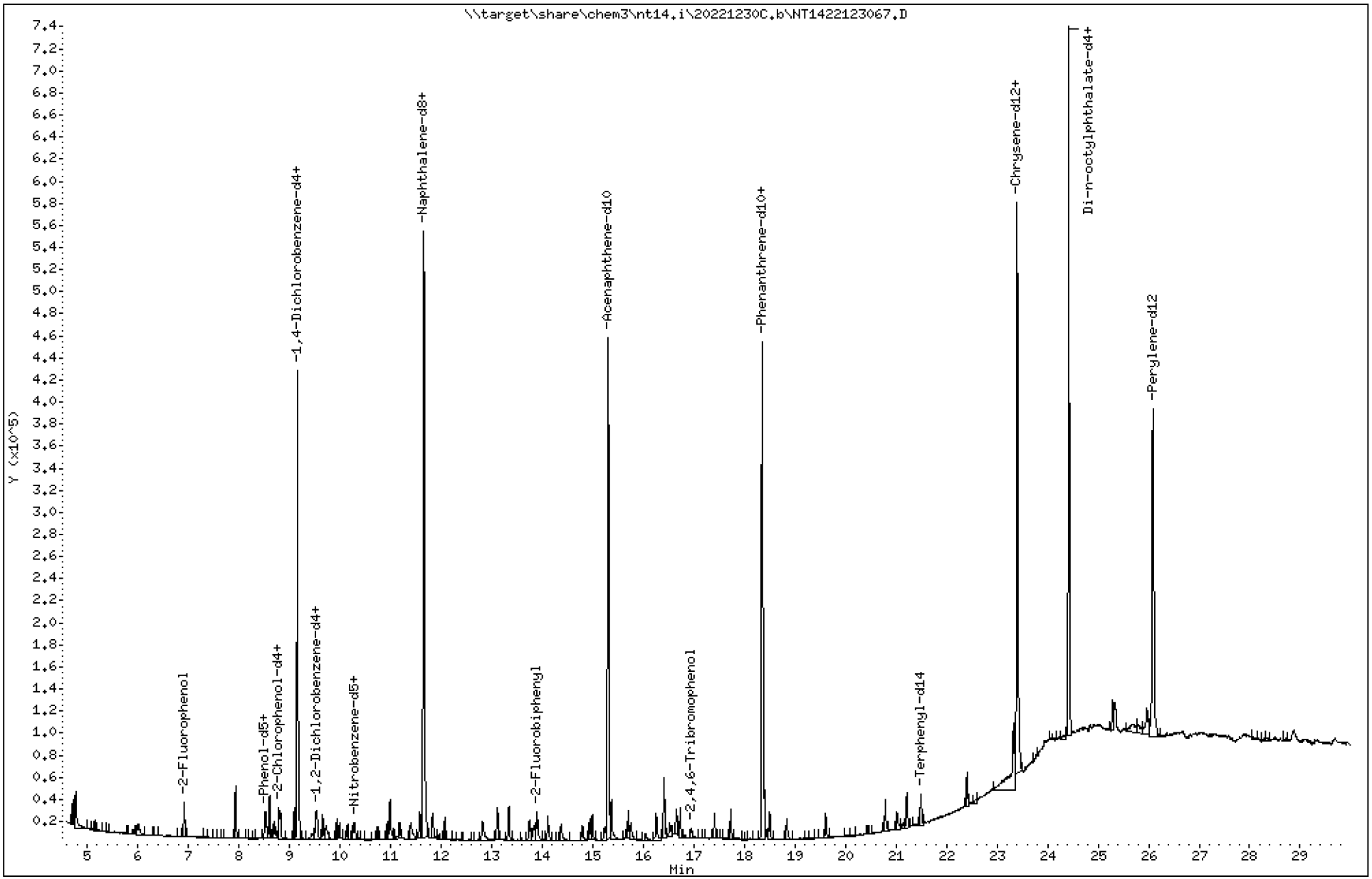
* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123067.D
Date : 01-JAN-2023 00:06
Client ID:
Sample Info: SKL0355-LCV3

Instrument: nt14.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

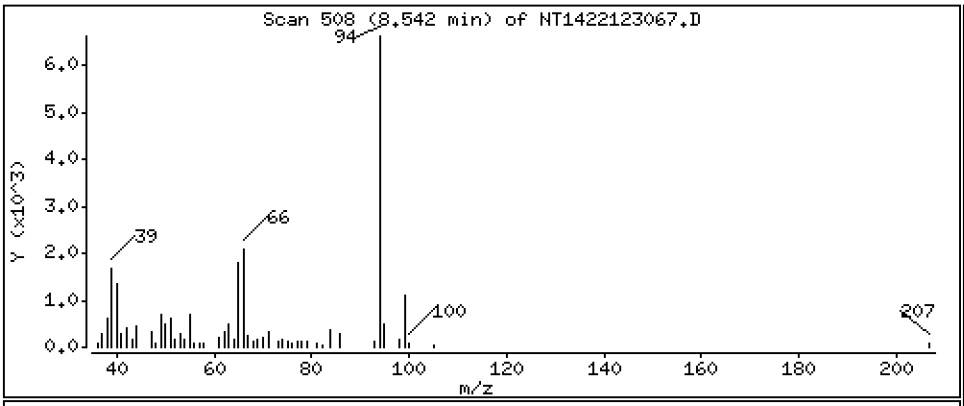
Operator: VTS

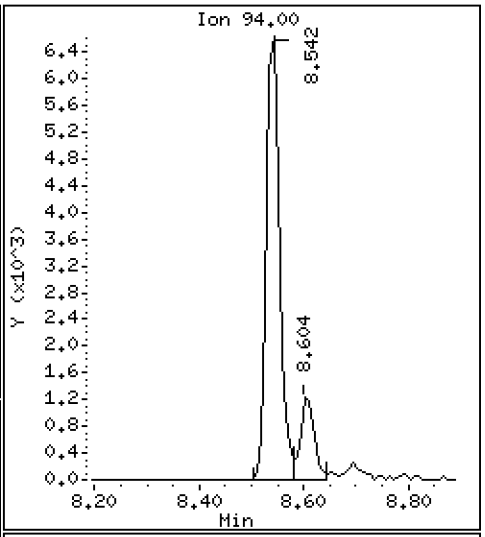
Column phase: ZB-5msi

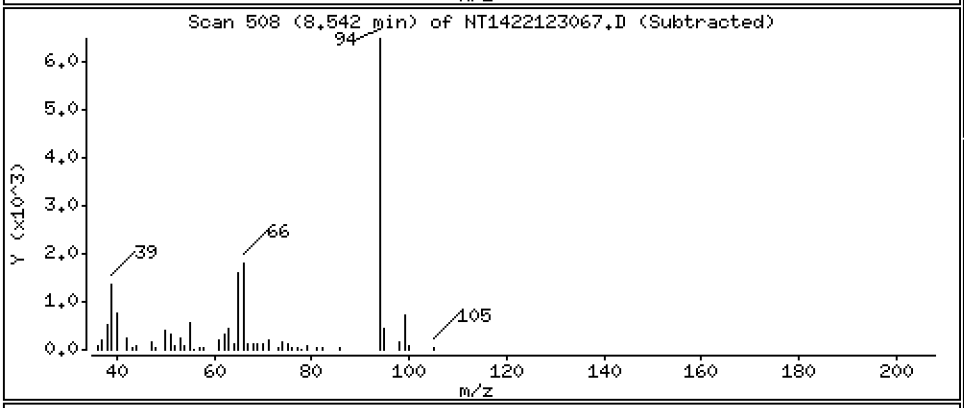
Column diameter: 0.25

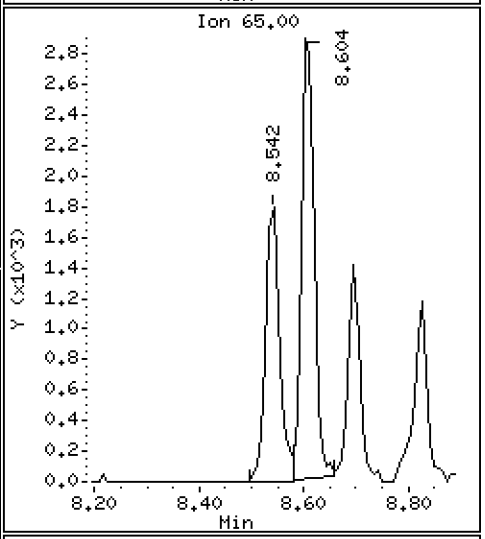
3 Phenol

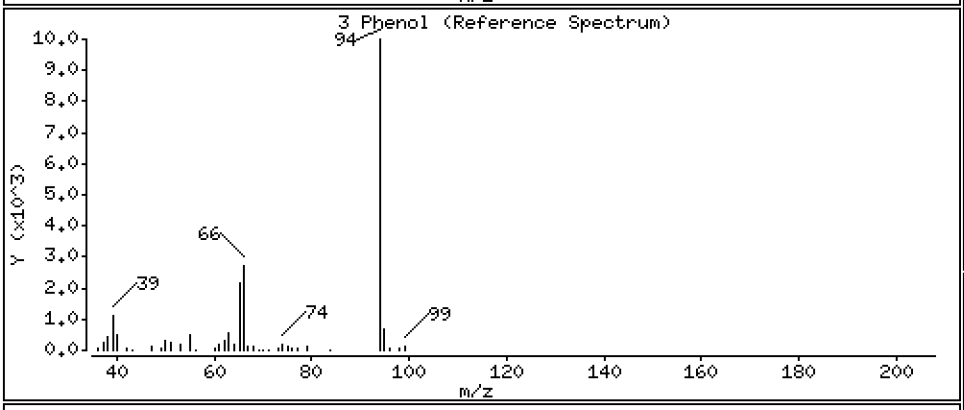
Concentration: 0.2273 ug/mL

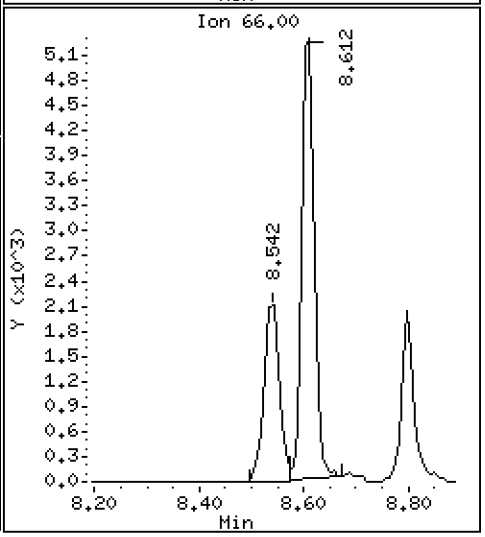


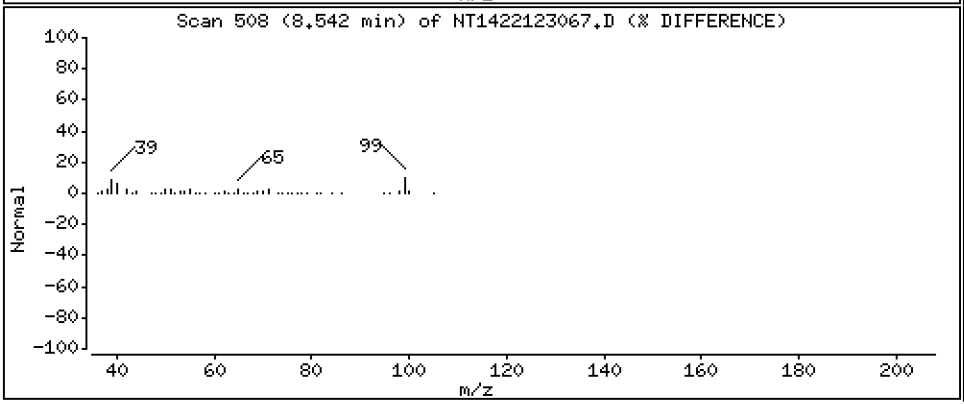












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

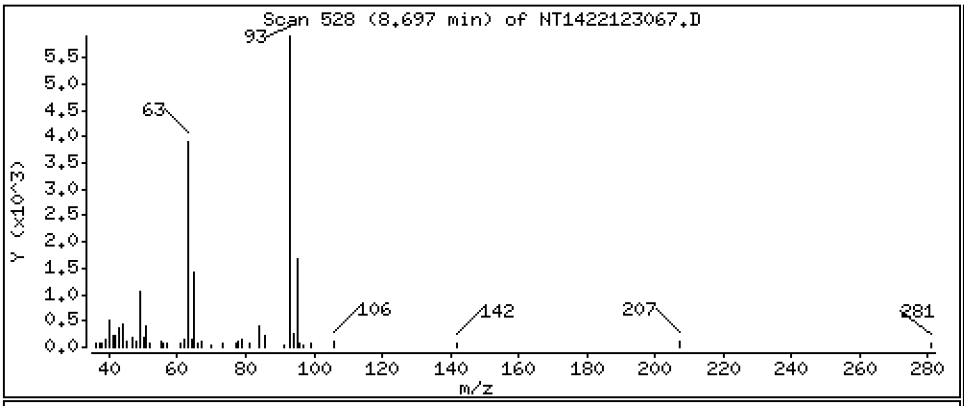
Operator: VTS

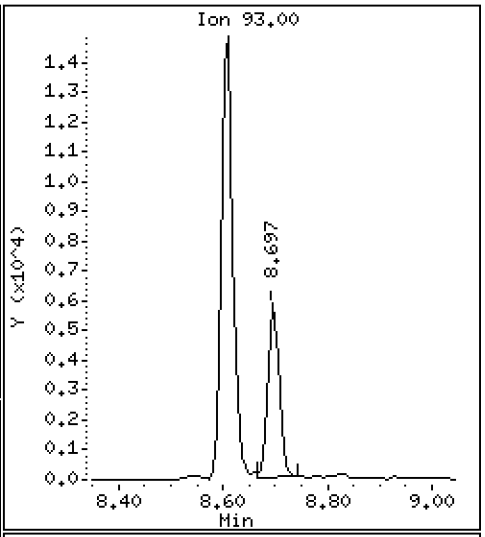
Column phase: ZB-5msi

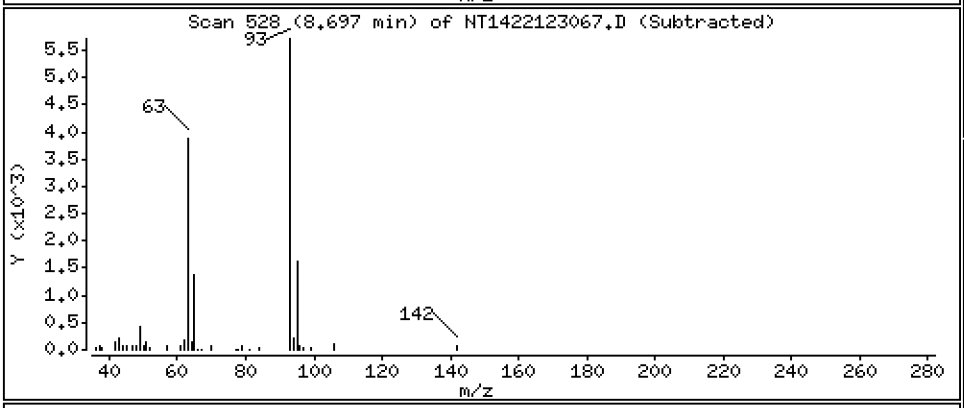
Column diameter: 0.25

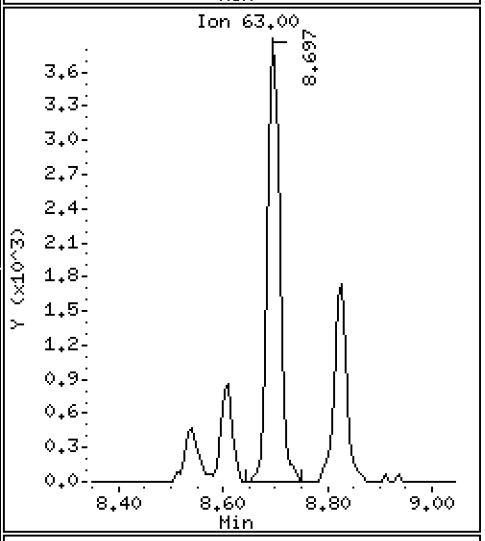
4 Bis(2-Chloroethyl)ether

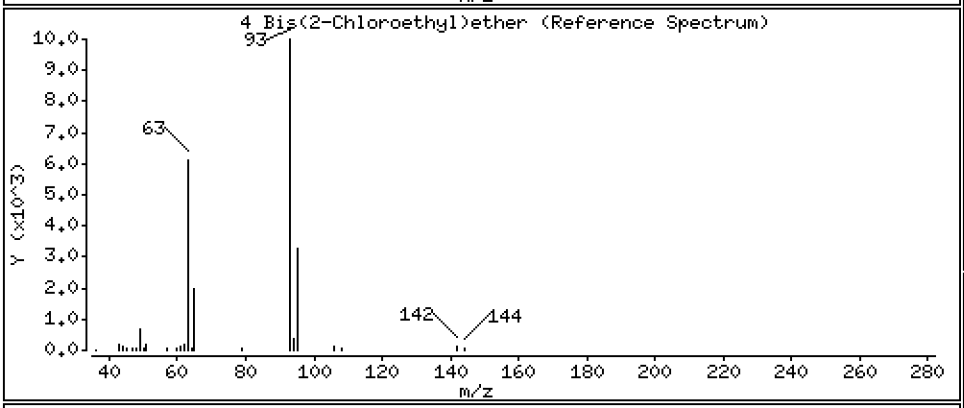
Concentration: 0.2393 ug/mL

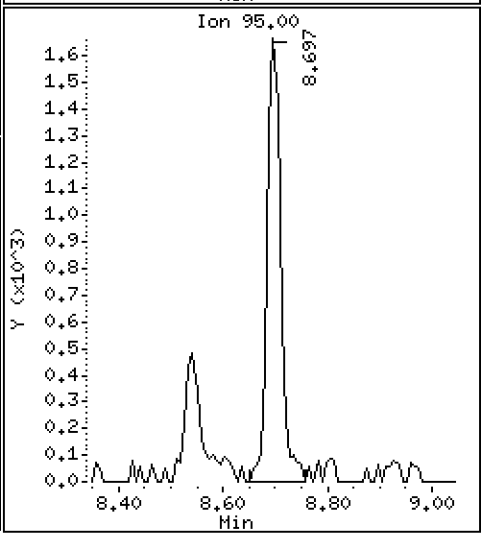


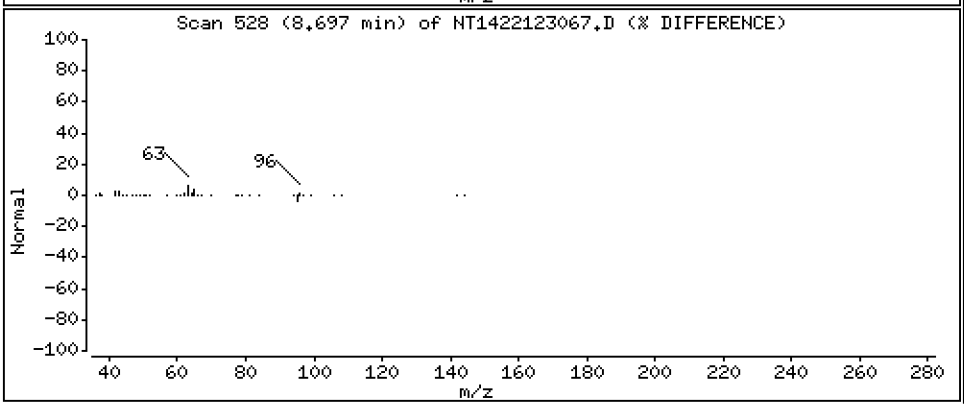












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

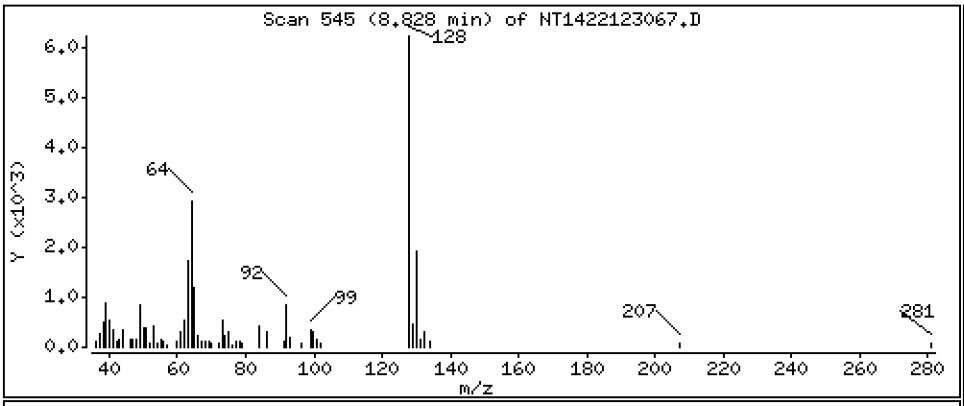
Operator: VTS

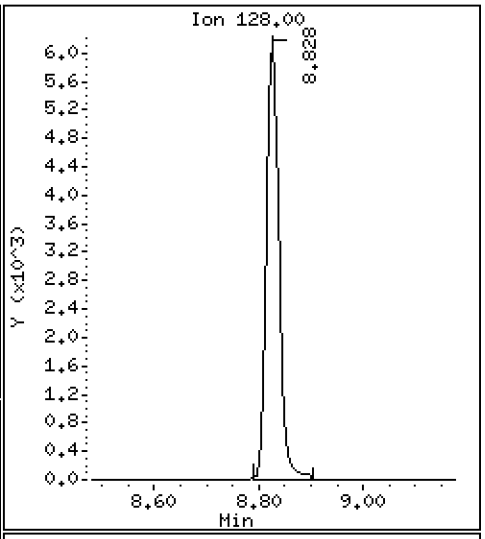
Column phase: ZB-5msi

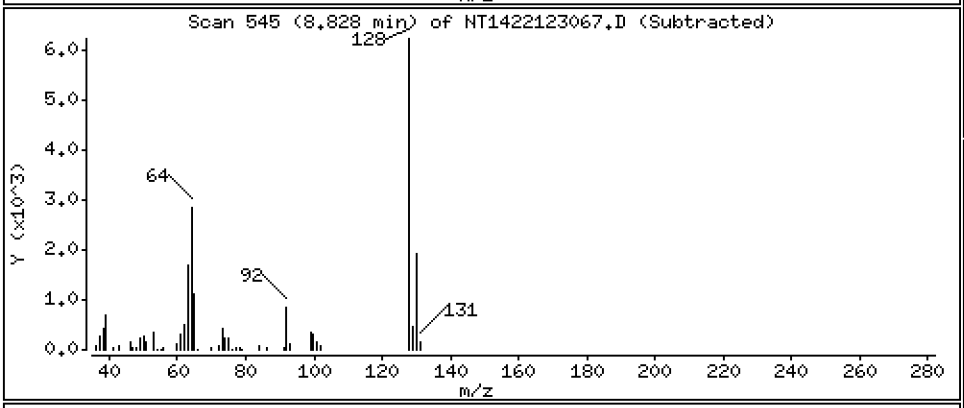
Column diameter: 0.25

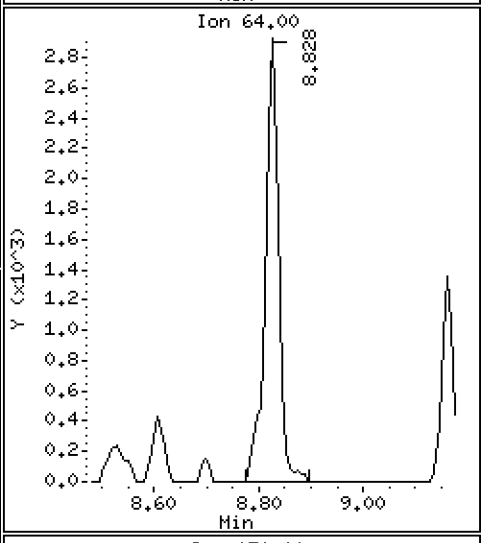
6 2-Chlorophenol

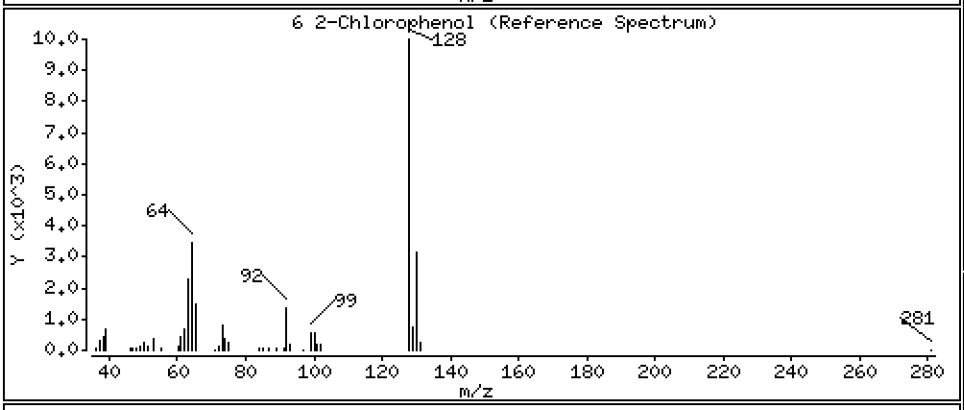
Concentration: 0.2462 ug/mL

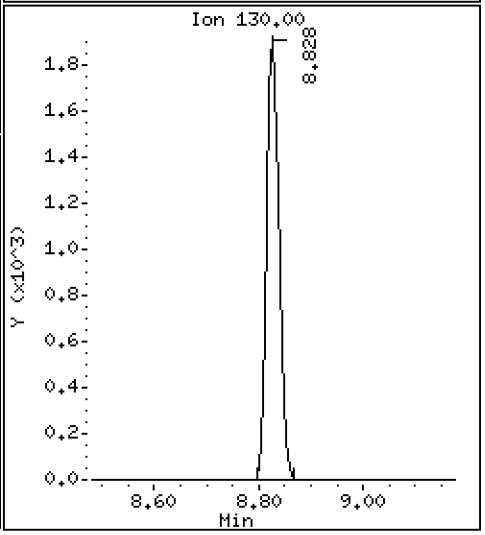


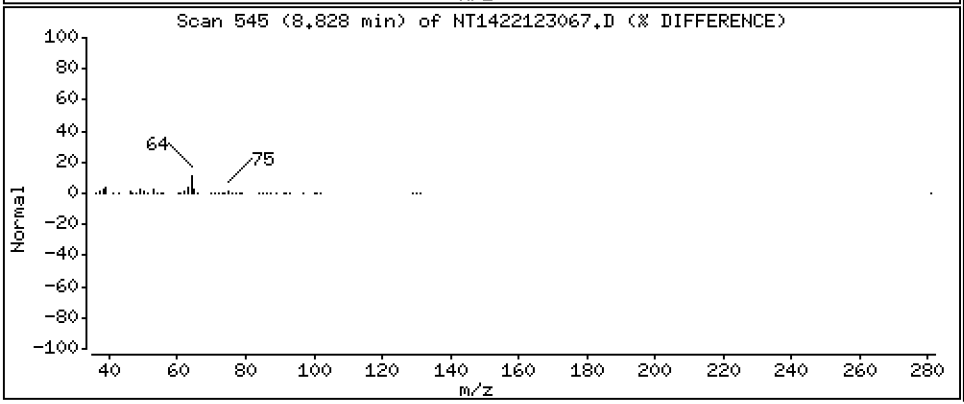












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

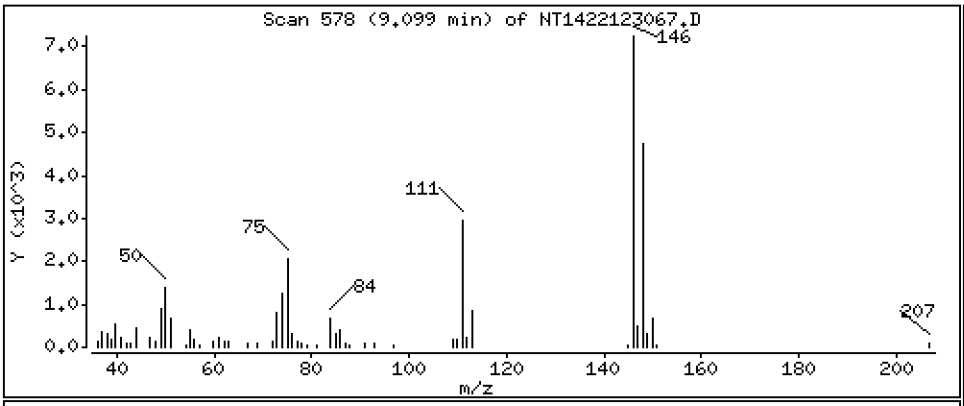
Operator: VTS

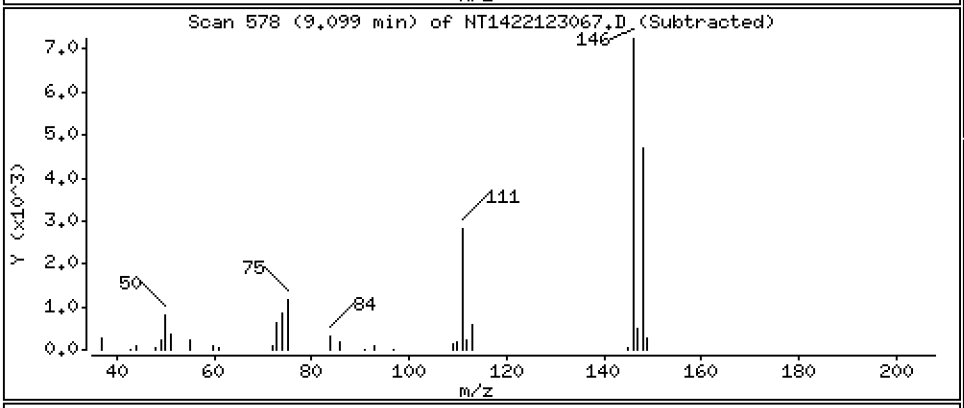
Column phase: ZB-5msi

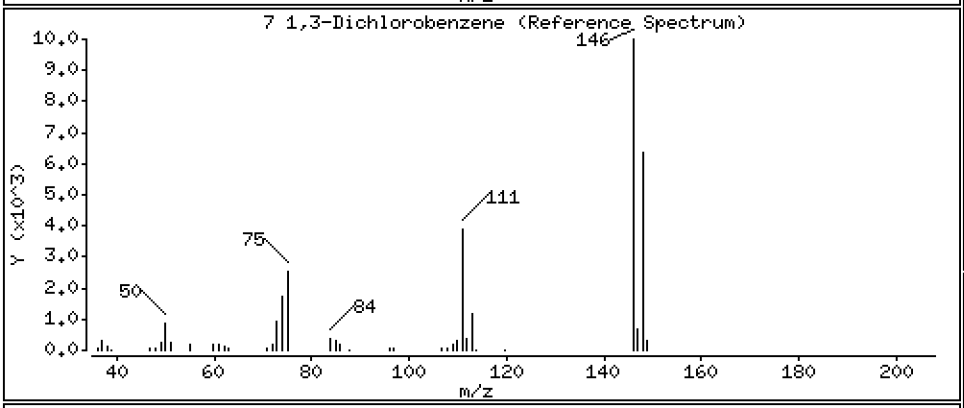
Column diameter: 0.25

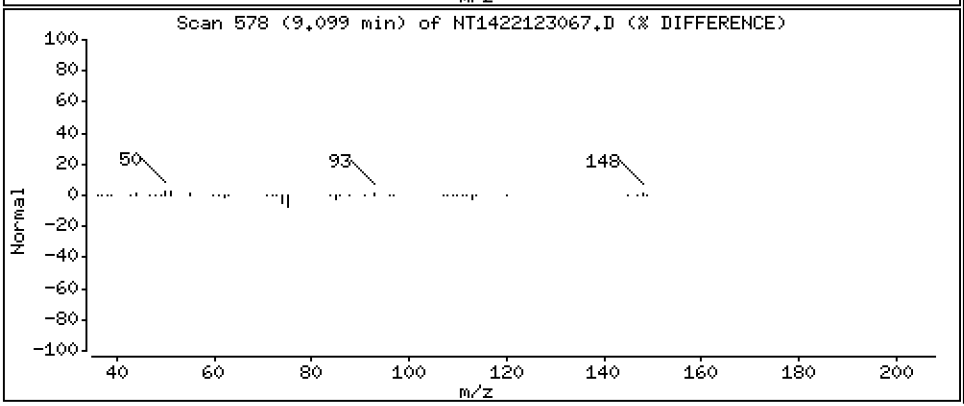
7 1,3-Dichlorobenzene

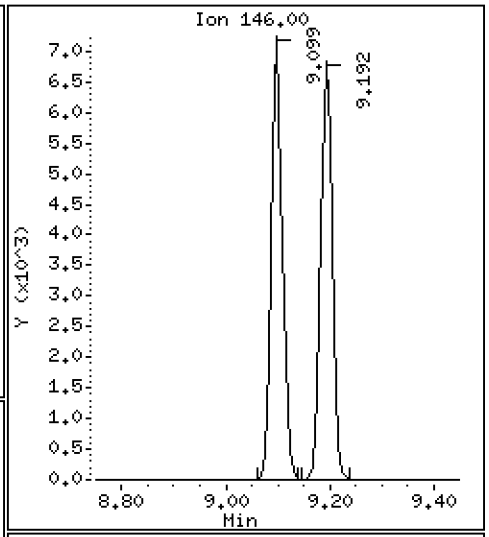
Concentration: 0.2470 ug/mL

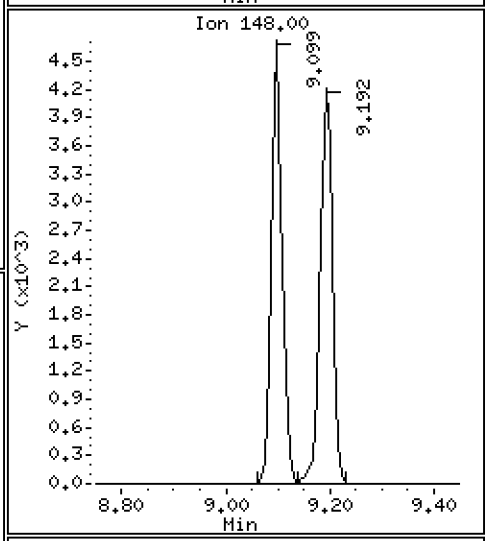


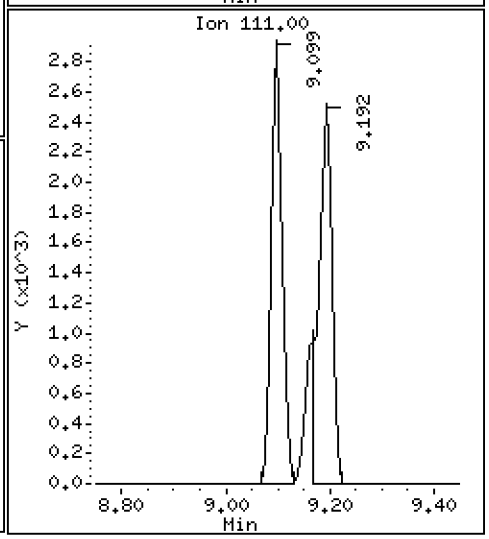












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

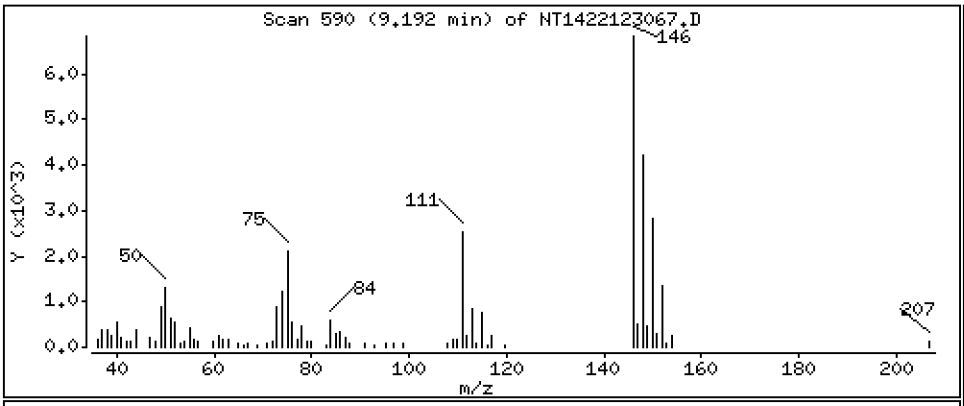
Operator: VTS

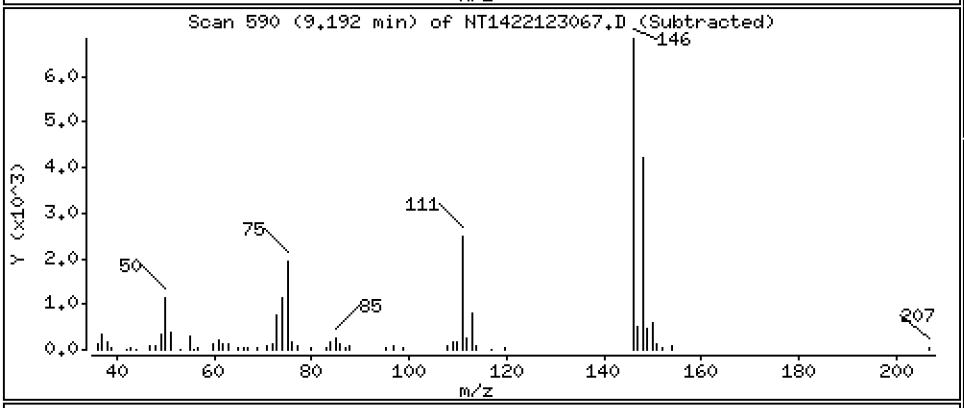
Column phase: ZB-5msi

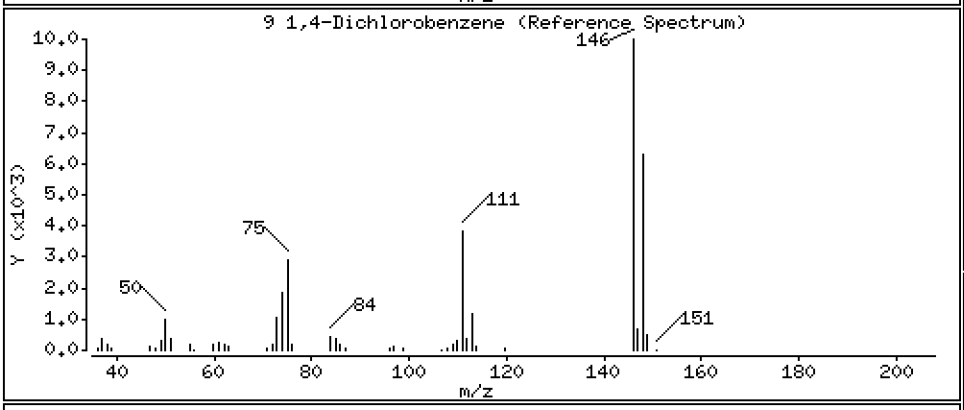
Column diameter: 0.25

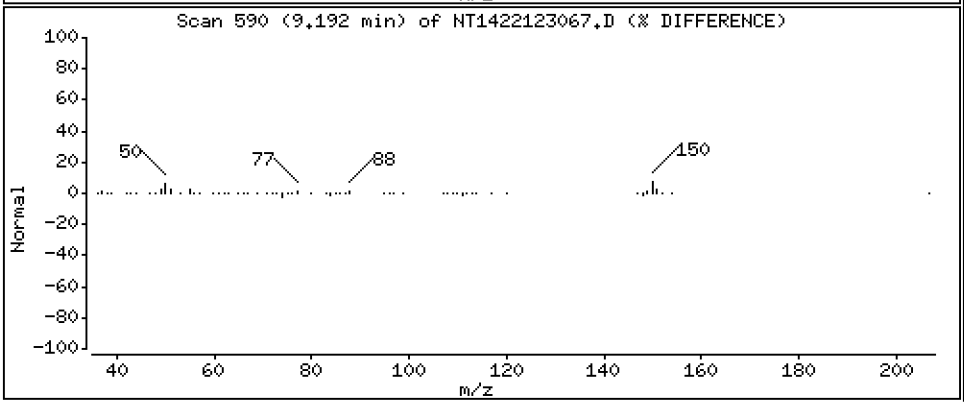
9 1,4-Dichlorobenzene

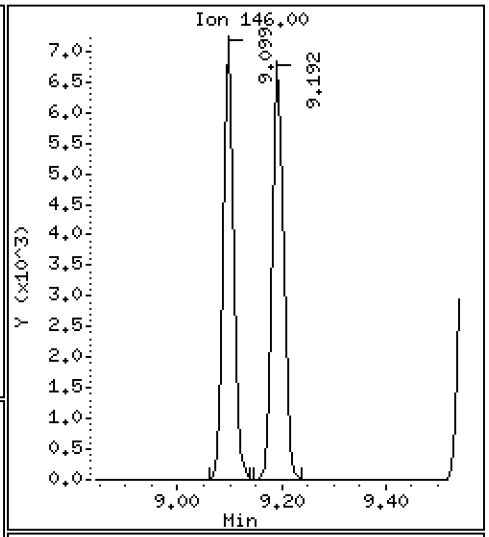
Concentration: 0.2502 ug/mL

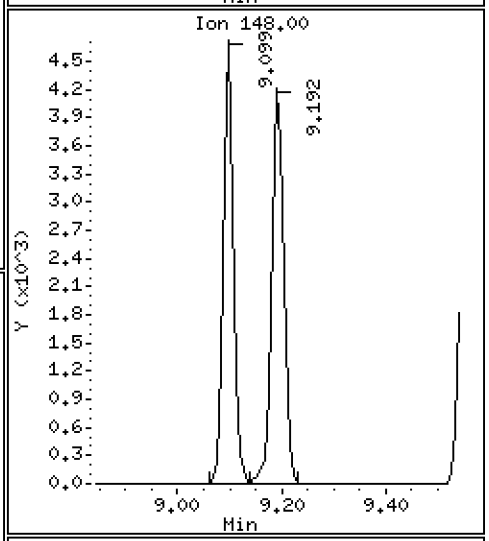


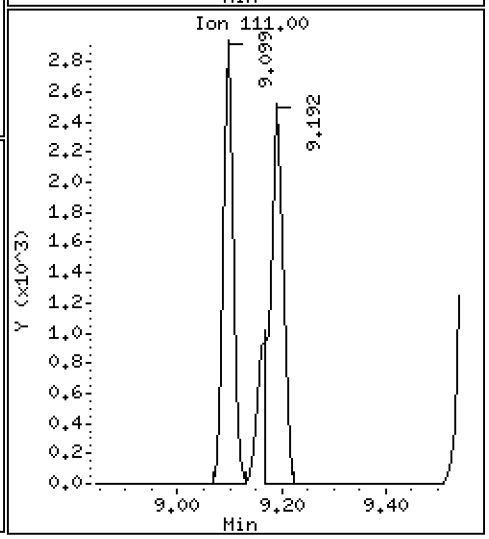












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

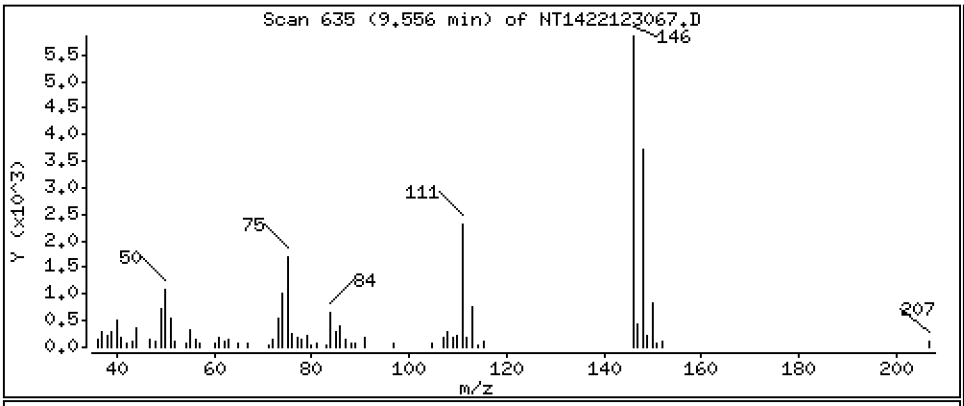
Operator: VTS

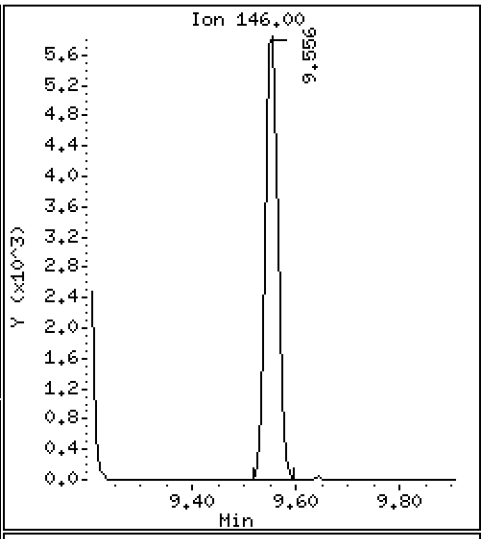
Column phase: ZB-5msi

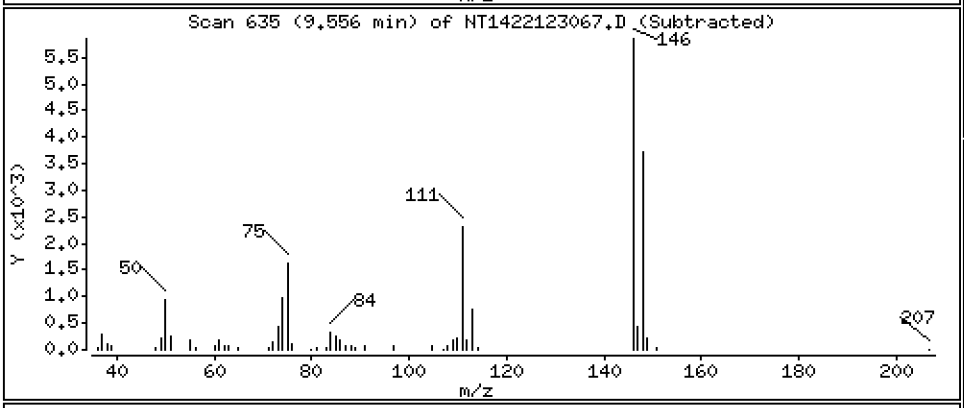
Column diameter: 0.25

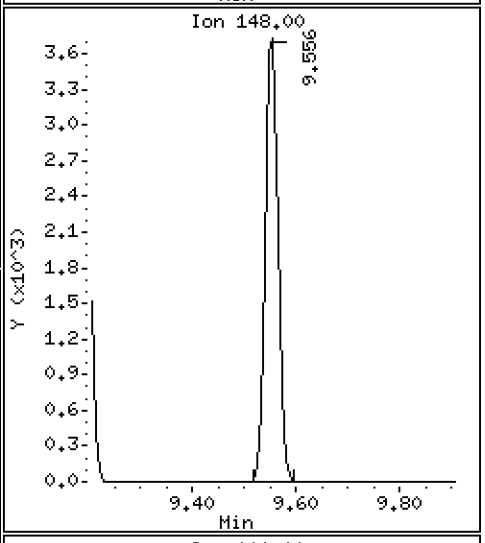
12 1,2-Dichlorobenzene

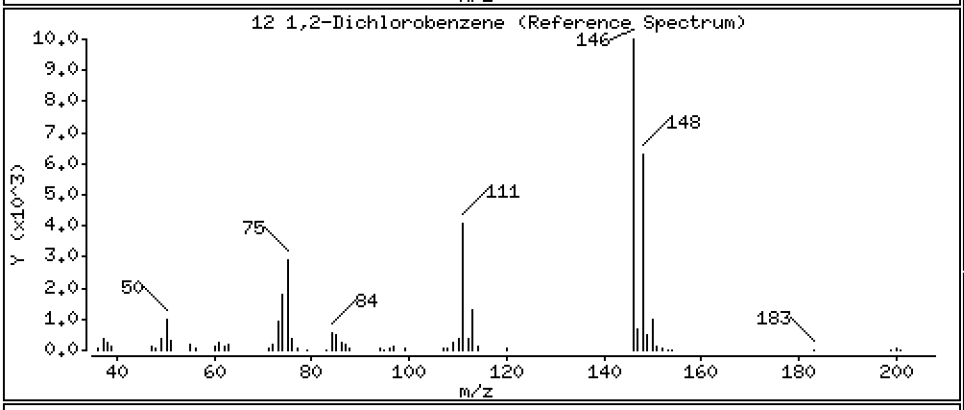
Concentration: 0.2420 ug/mL

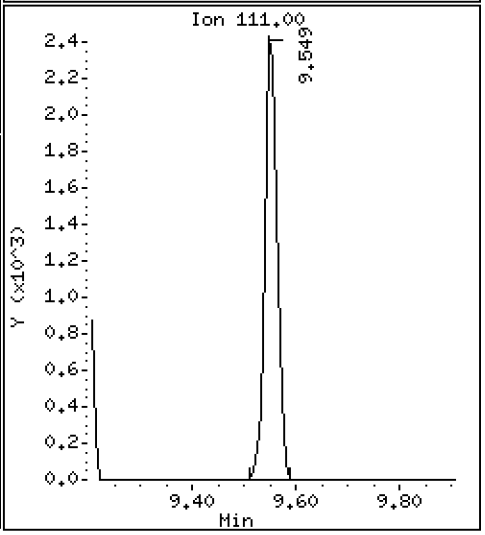


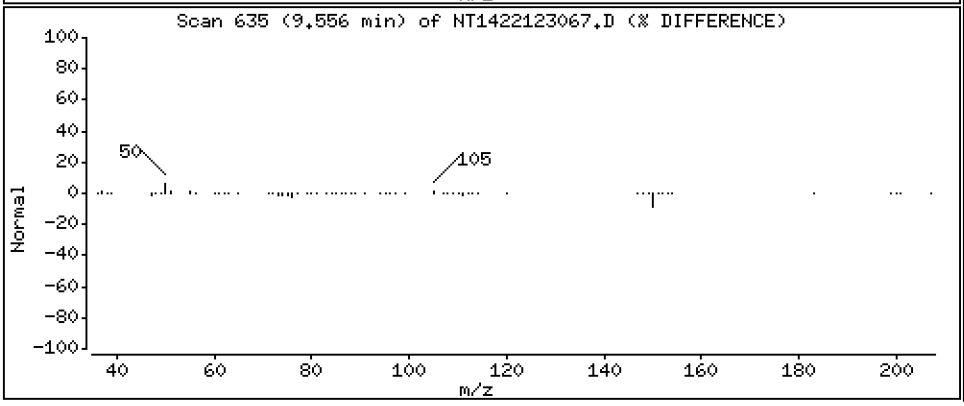












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

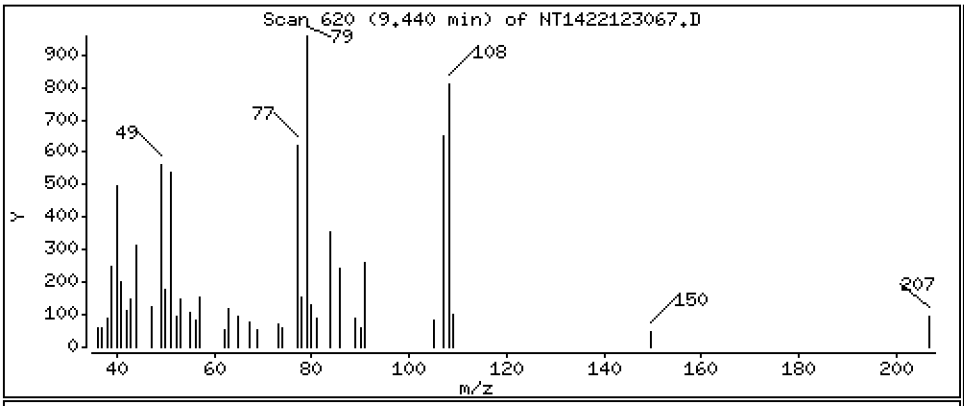
Operator: VTS

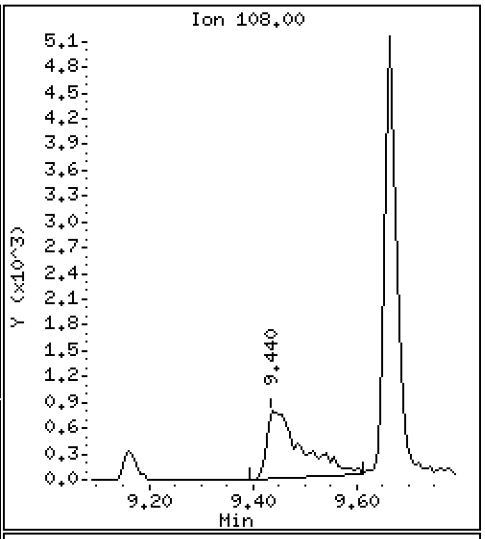
Column phase: ZB-5msi

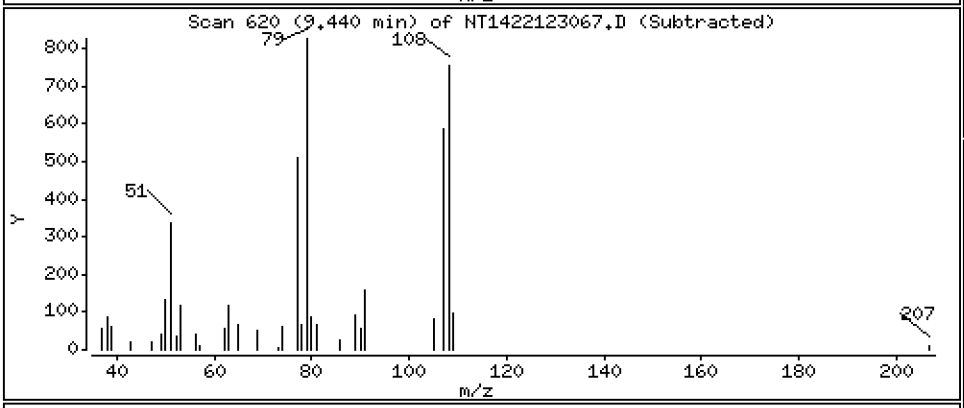
Column diameter: 0.25

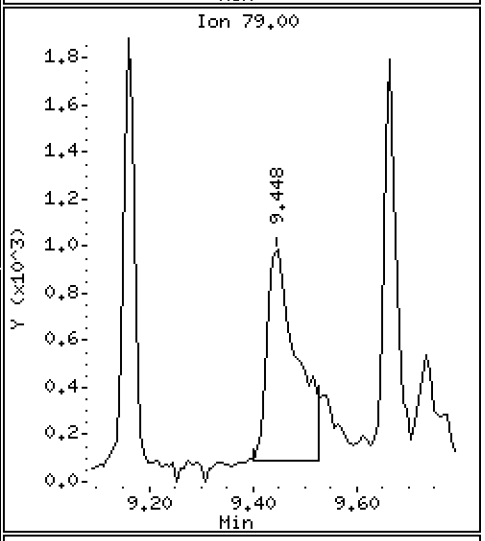
11 Benzyl alcohol

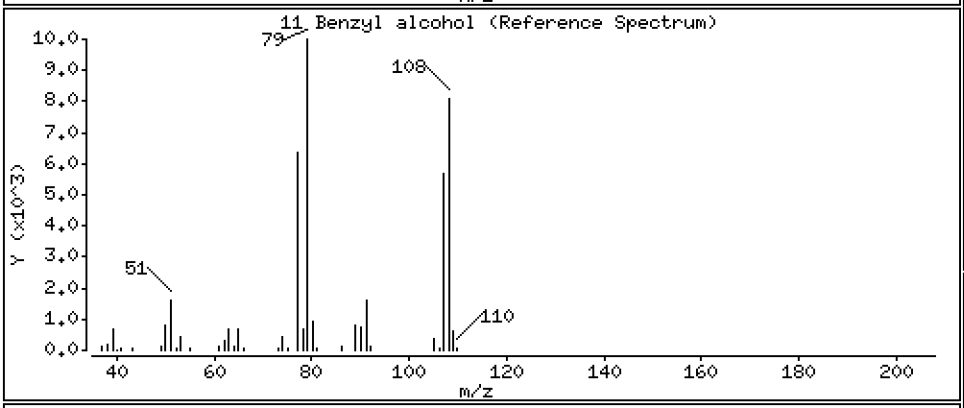
Concentration: 0.1653 ug/mL

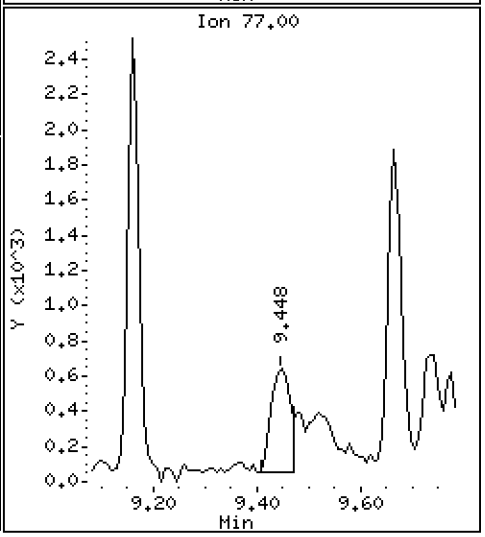


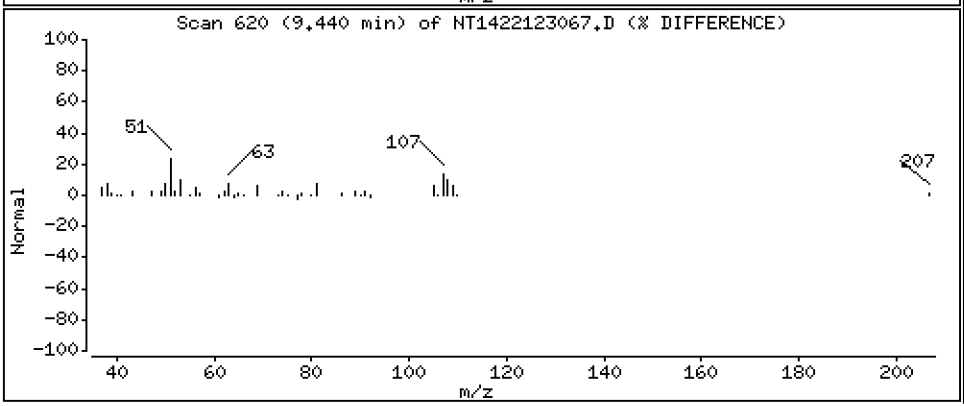












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

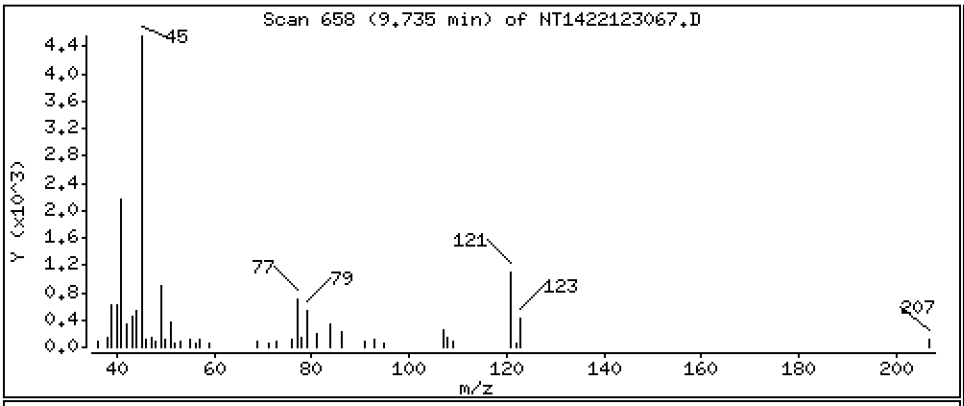
Operator: VTS

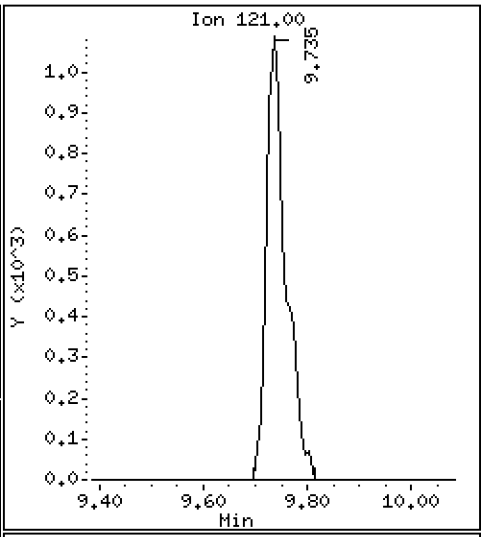
Column phase: ZB-5msi

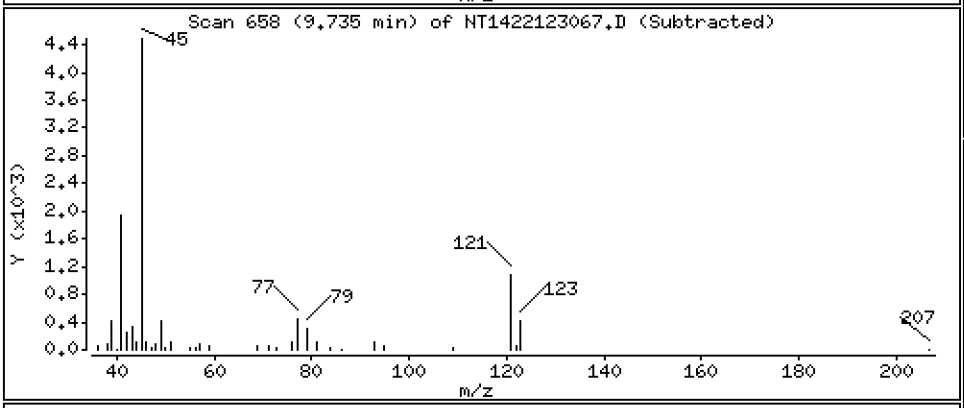
Column diameter: 0.25

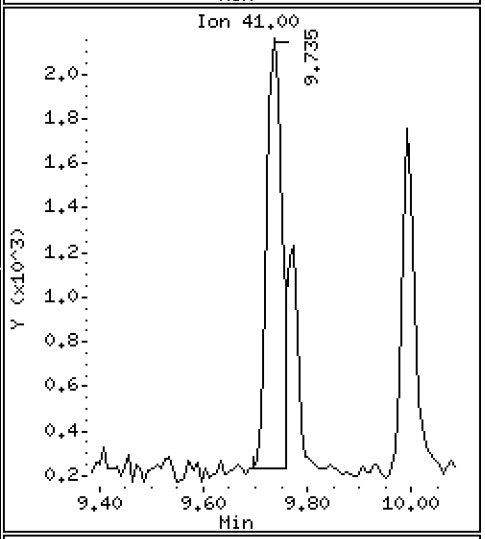
14 2,2'-oxybis(1-Chloropropane)

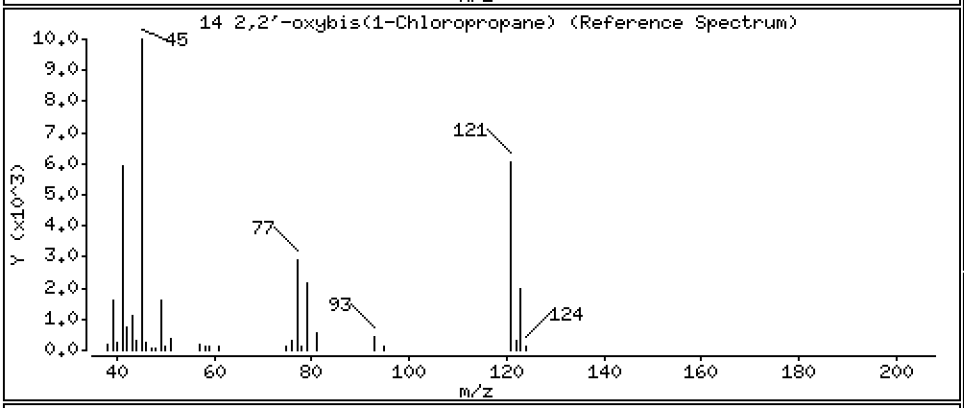
Concentration: 0.2430 ug/mL

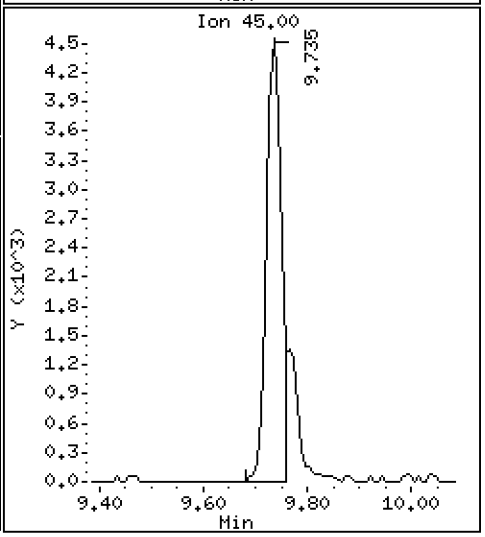


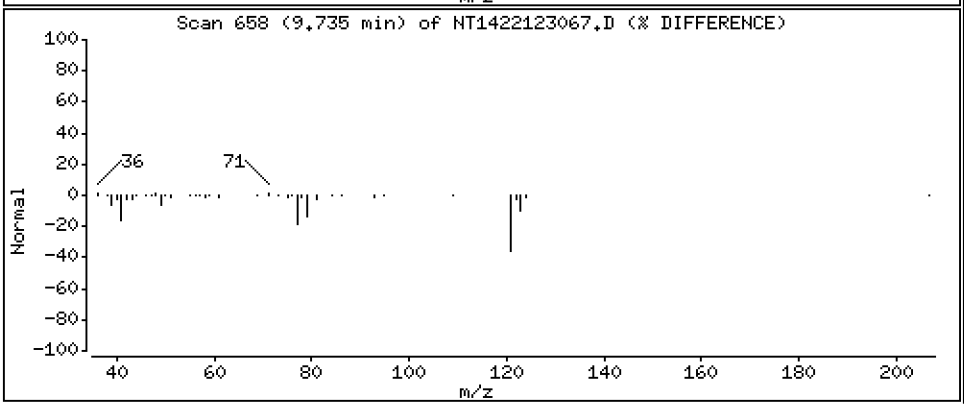












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

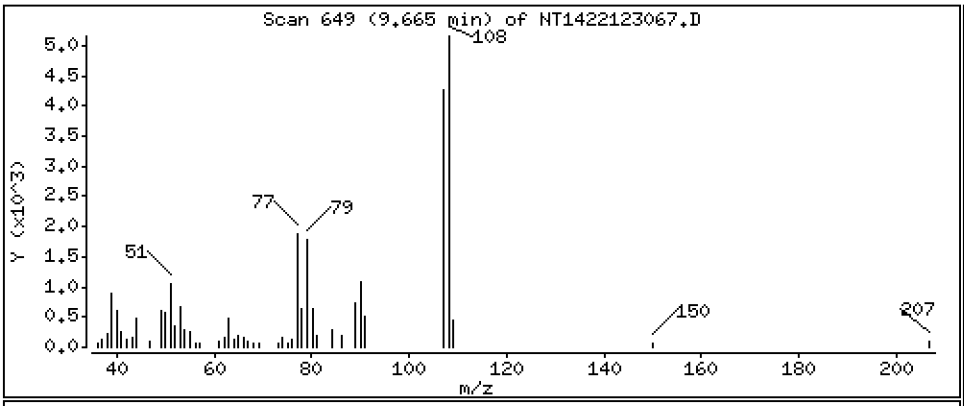
Operator: VTS

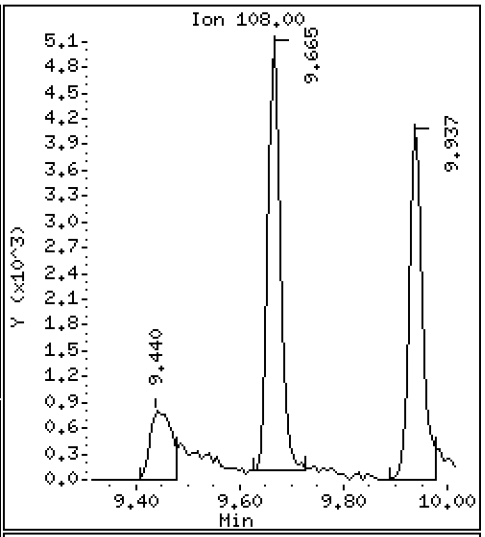
Column phase: ZB-5msi

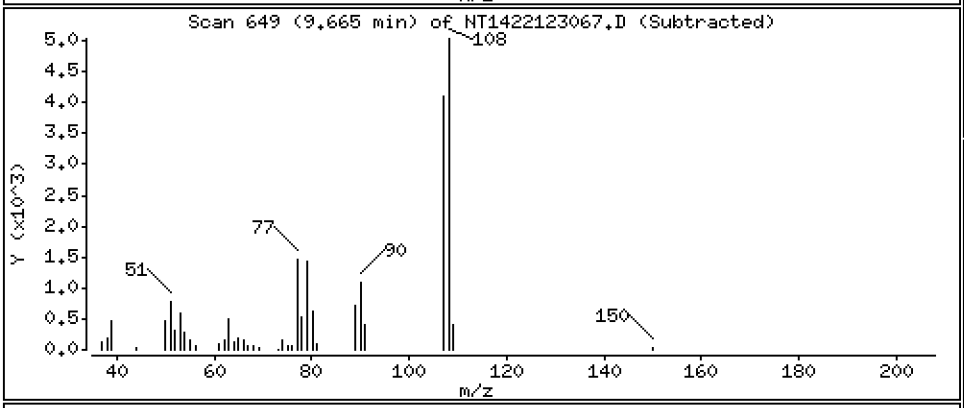
Column diameter: 0.25

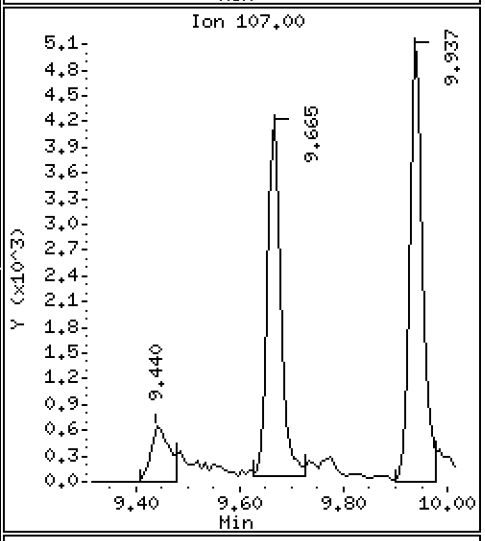
13 2-Methylphenol

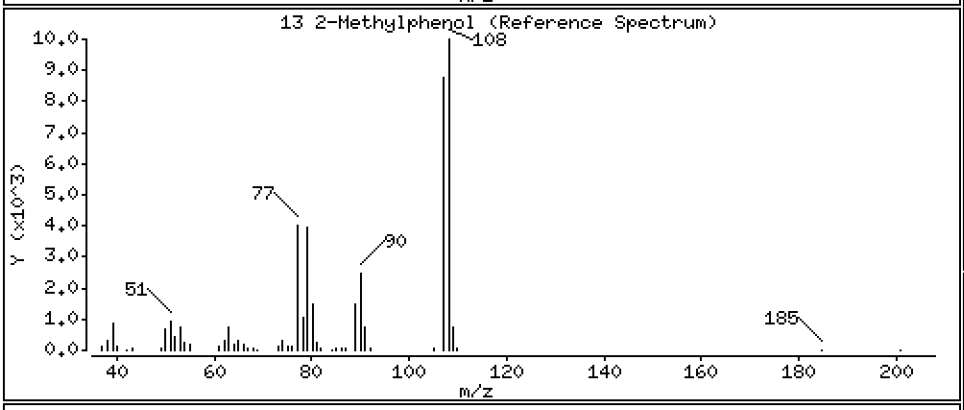
Concentration: 0.2207 ug/mL

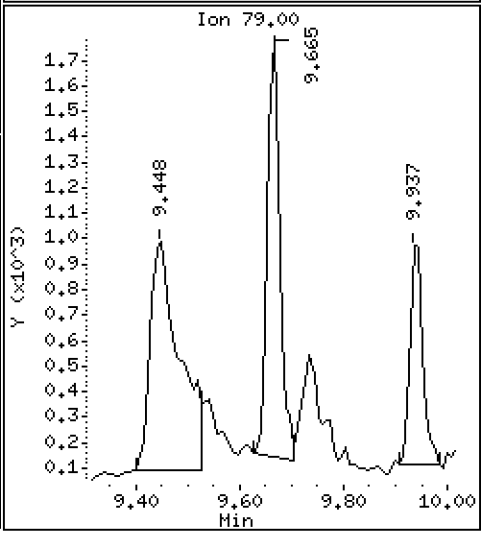


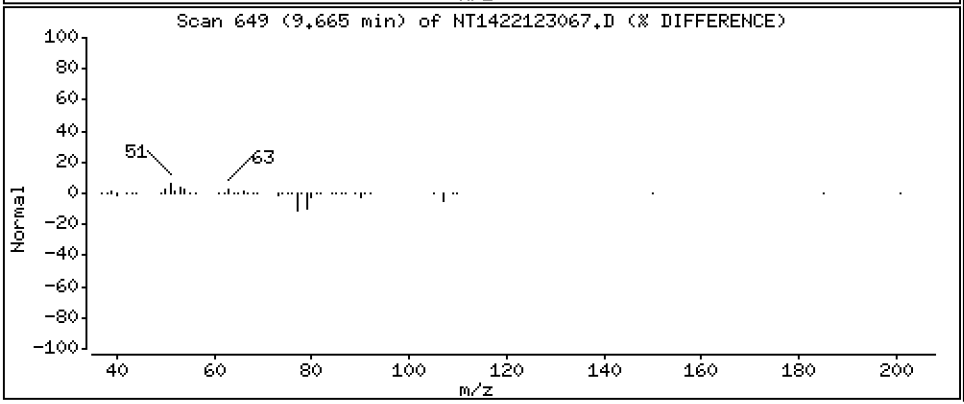












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

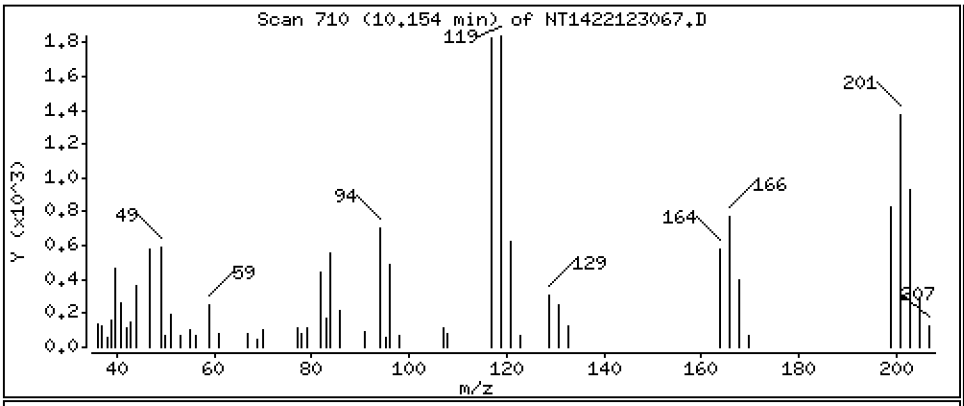
Operator: VTS

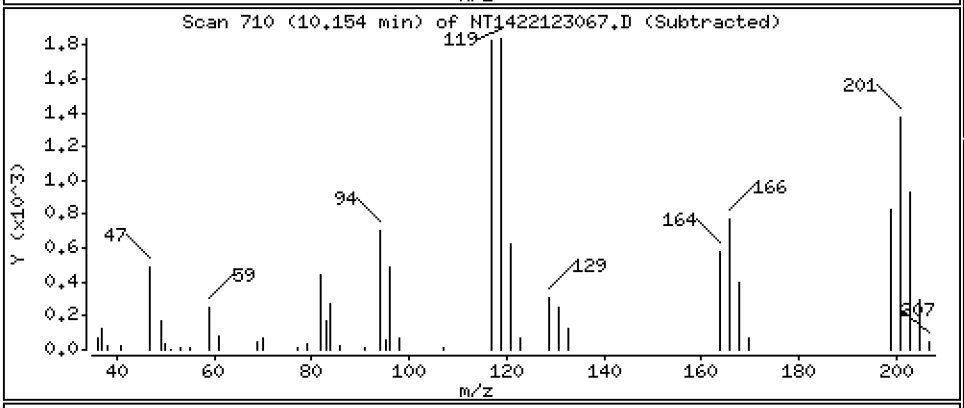
Column phase: ZB-5msi

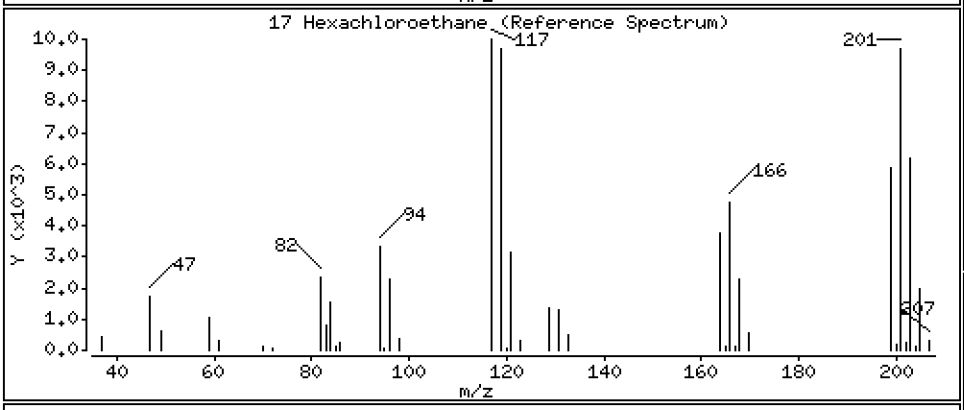
Column diameter: 0.25

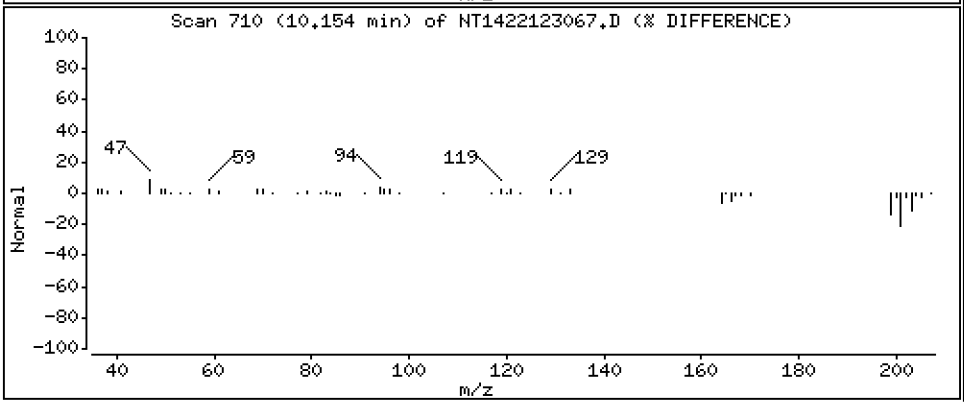
17 Hexachloroethane

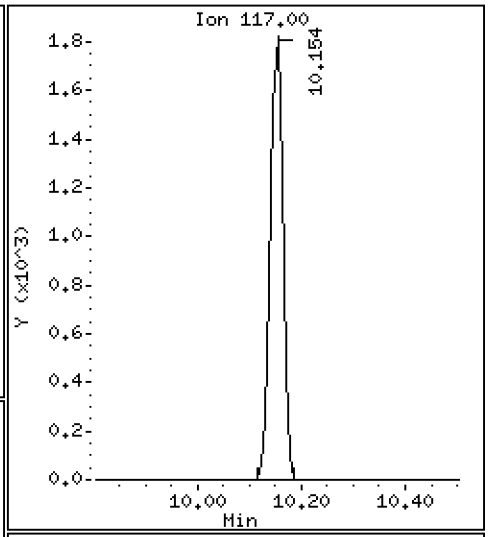
Concentration: 0.1979 ug/mL

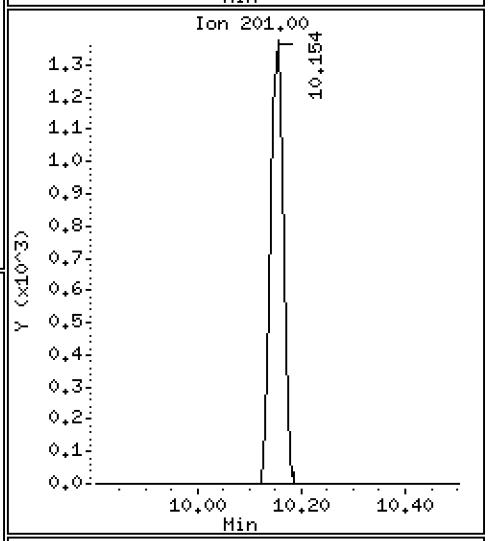


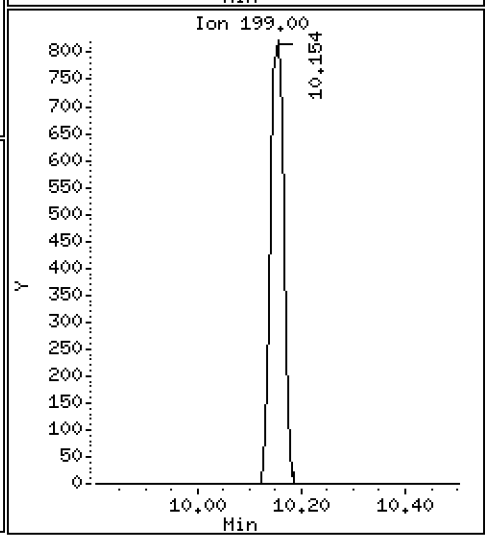












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

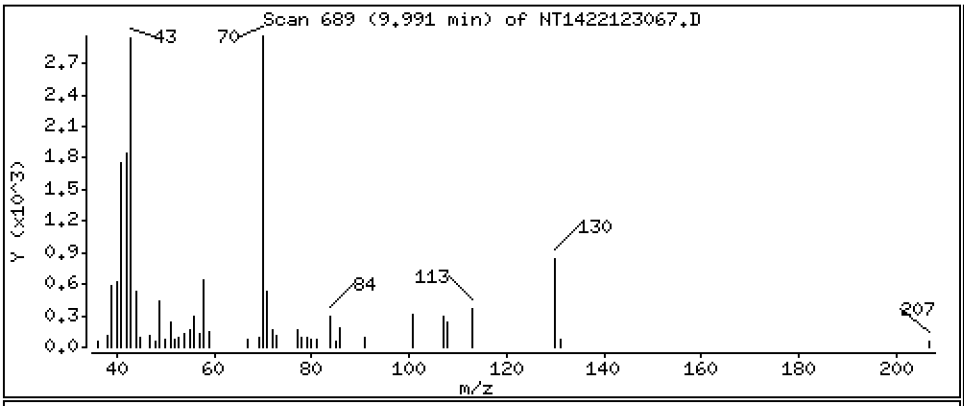
Operator: VTS

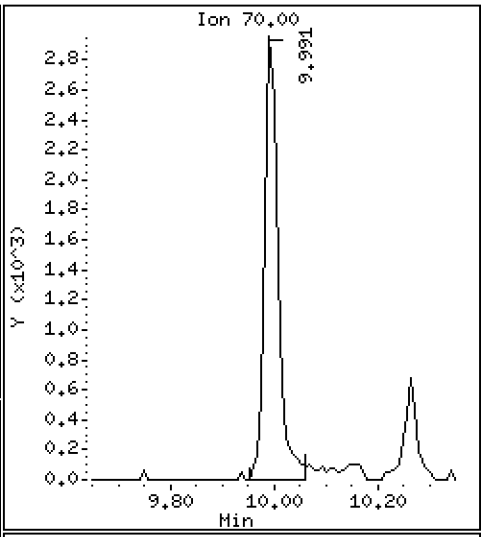
Column phase: ZB-5msi

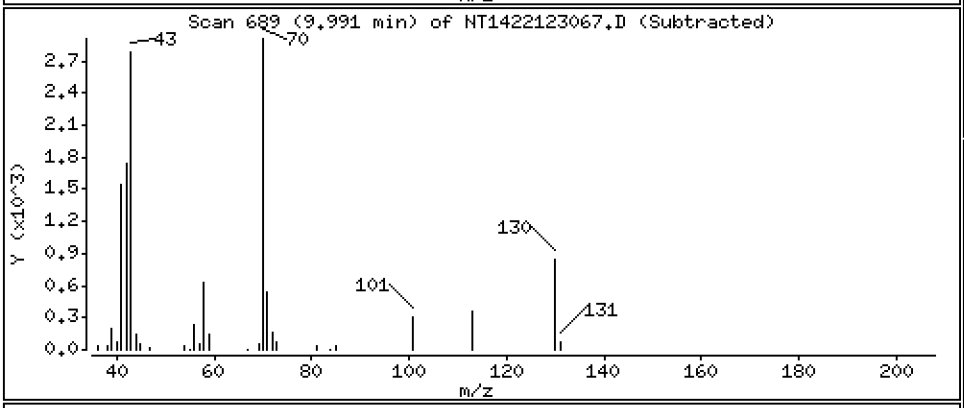
Column diameter: 0.25

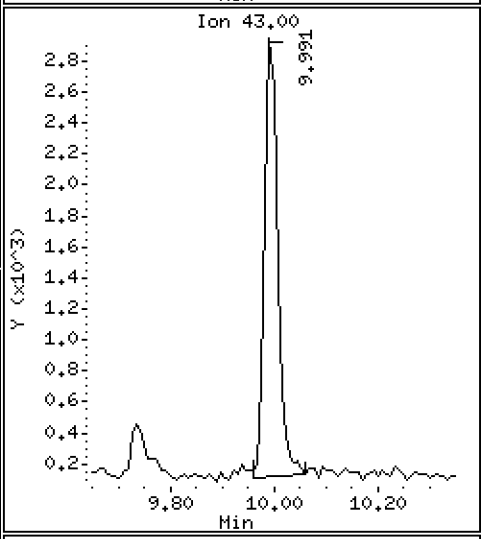
16 N-Nitroso-di-n-propylamine

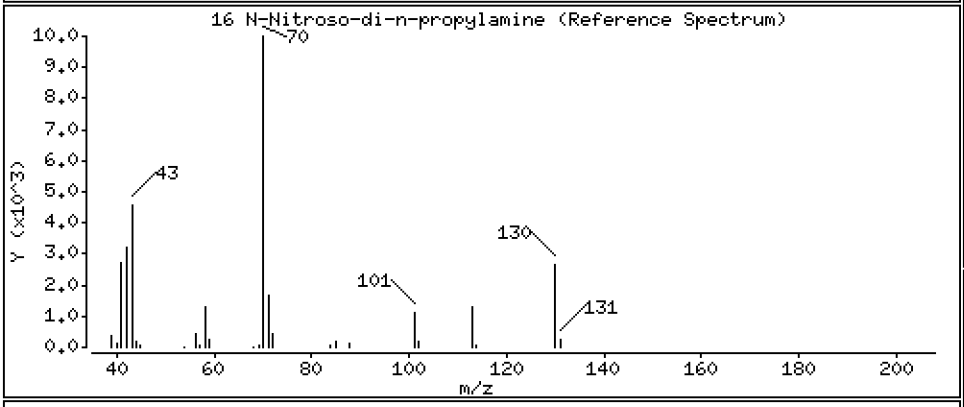
Concentration: 0.2352 ug/mL

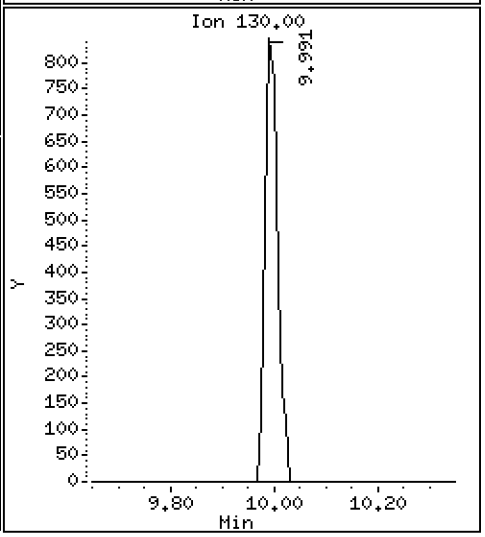


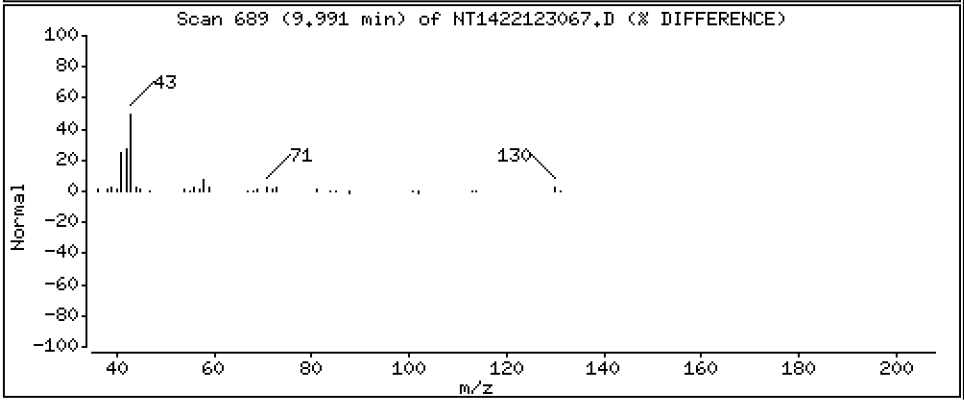












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

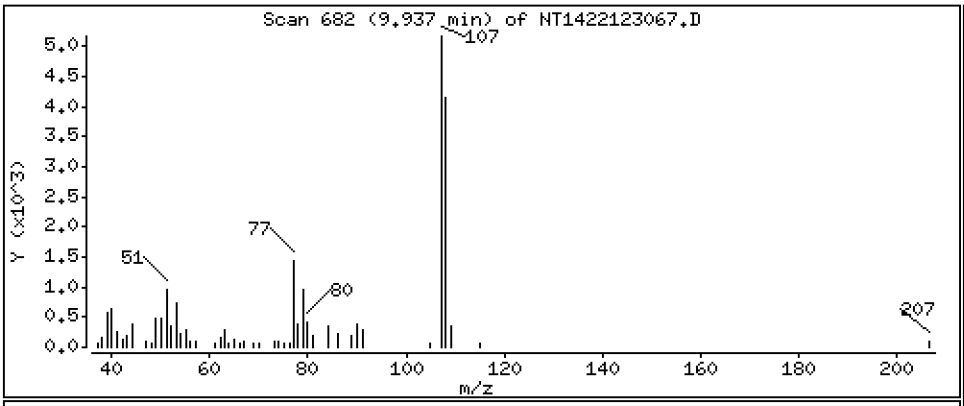
Operator: VTS

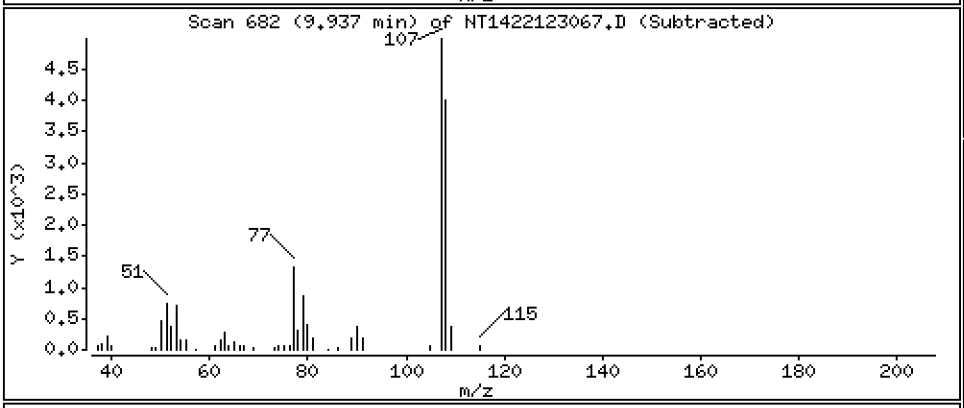
Column phase: ZB-5msi

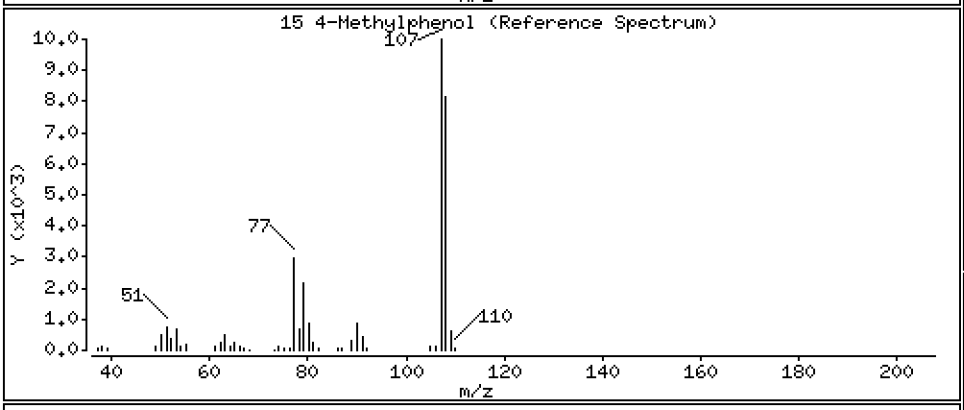
Column diameter: 0.25

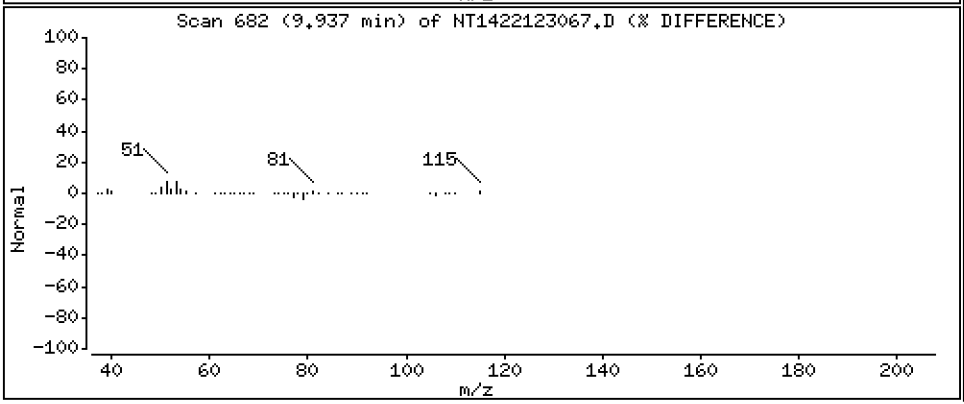
15 4-Methylphenol

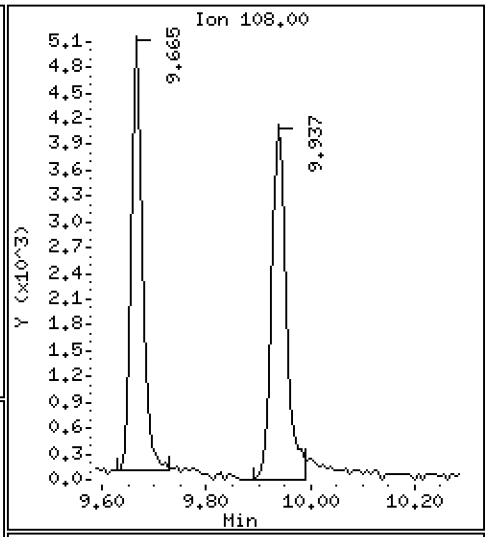
Concentration: 0.2079 ug/mL

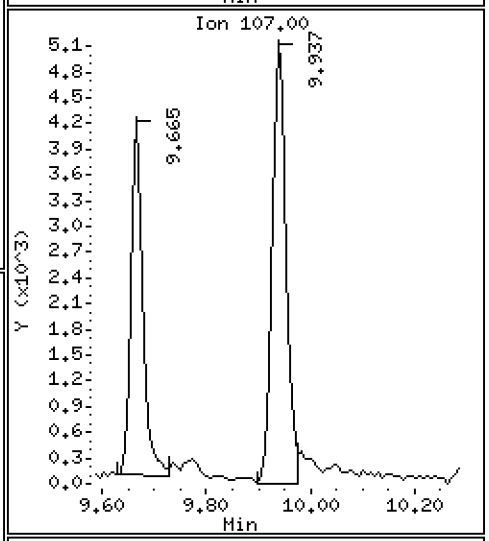


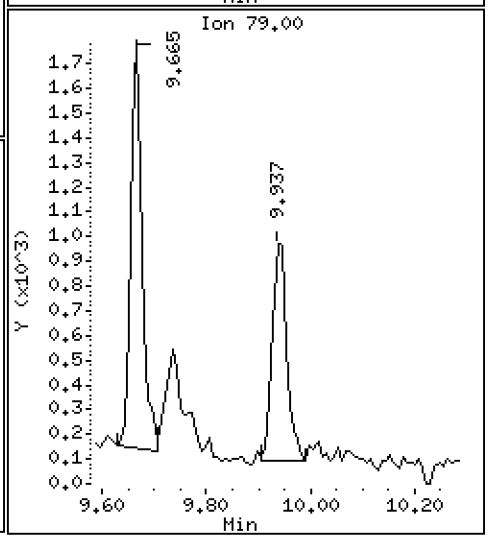












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123067.D

Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

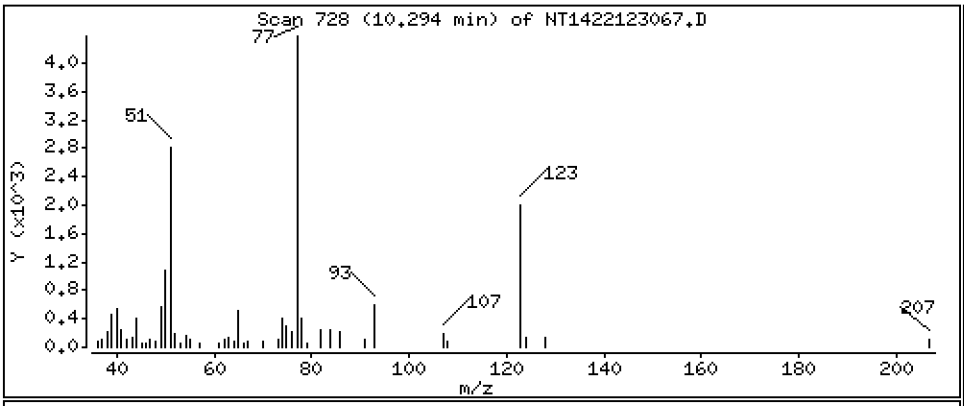
Operator: VTS

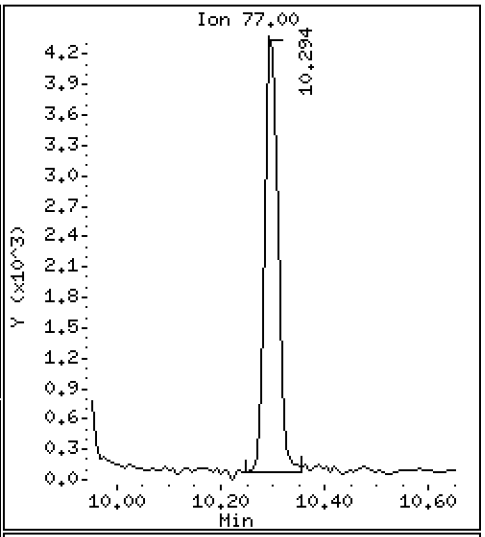
Column phase: ZB-5msi

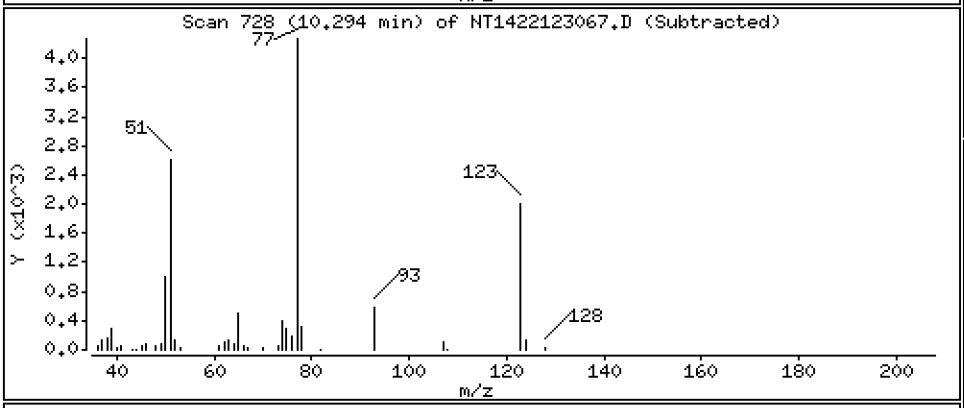
Column diameter: 0.25

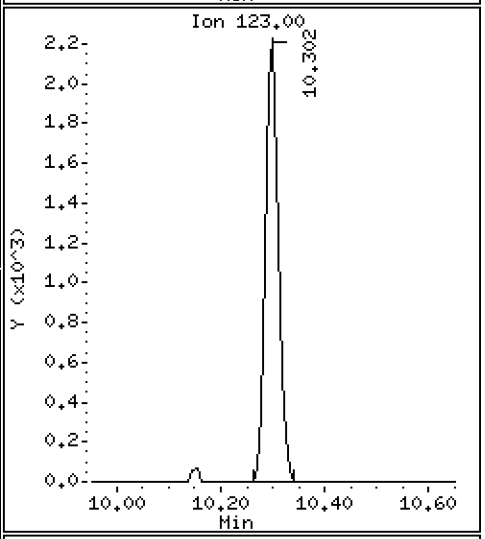
19 Nitrobenzene

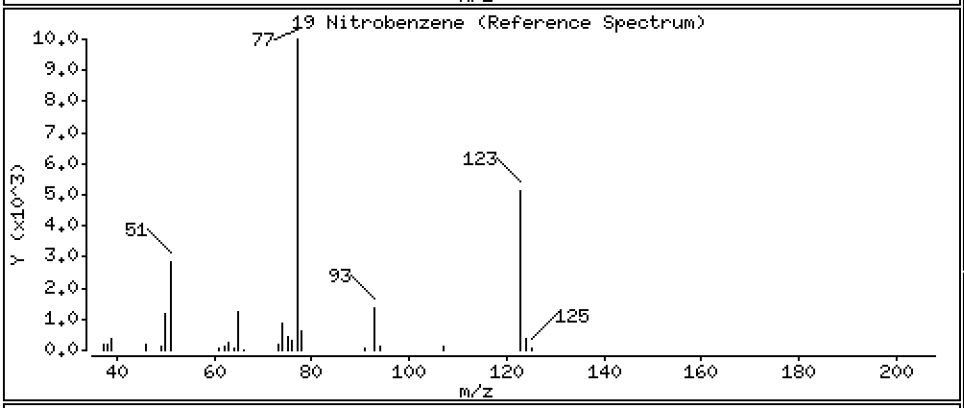
Concentration: 0.2230 ug/mL

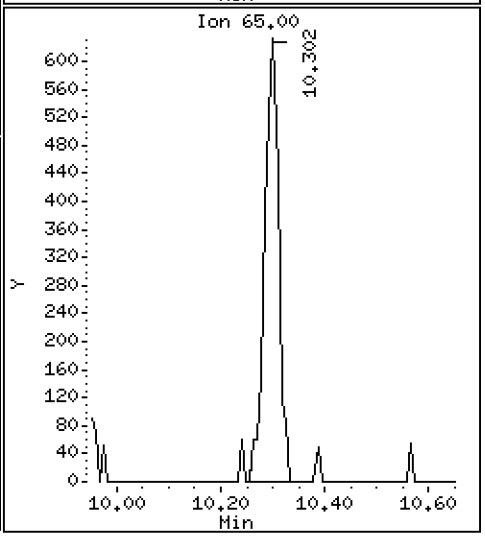


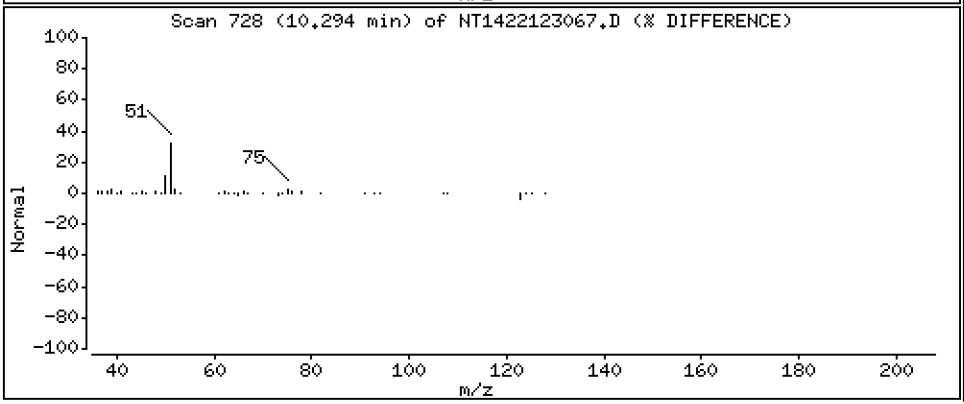












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

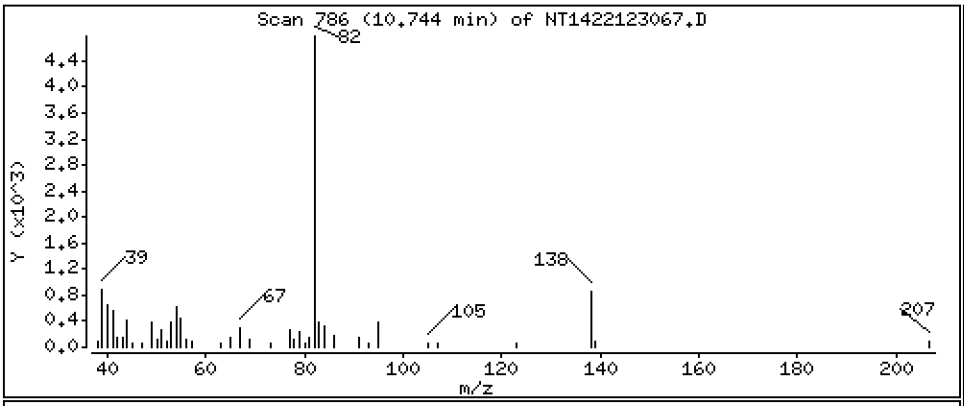
Operator: VTS

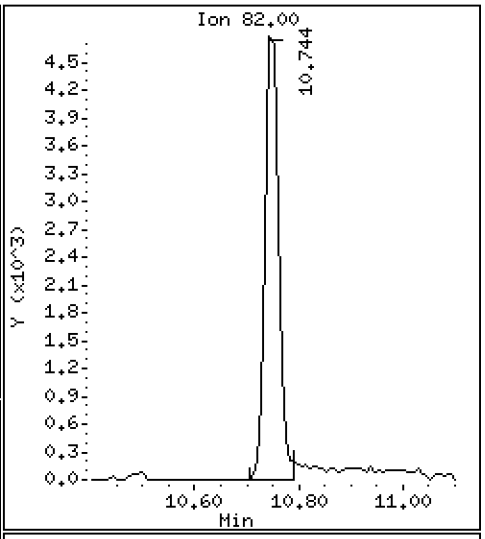
Column phase: ZB-5msi

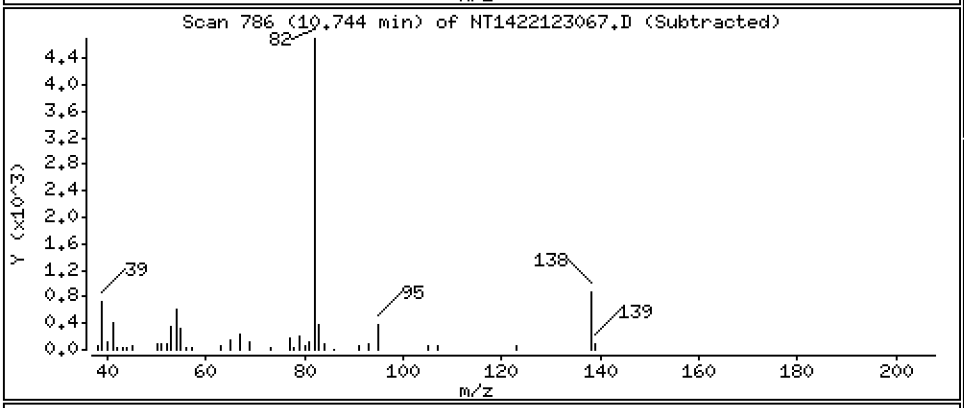
Column diameter: 0.25

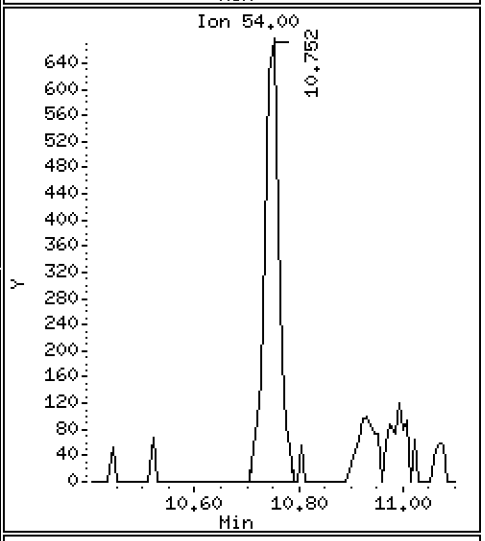
20 Isophorone

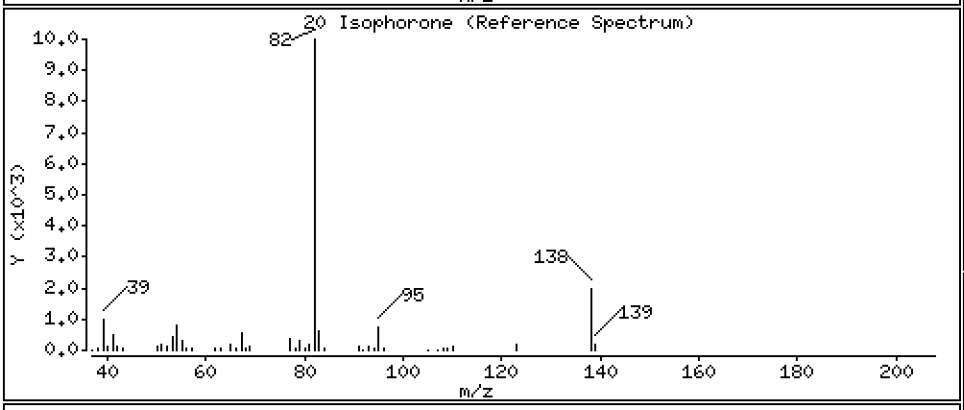
Concentration: 0.1972 ug/mL

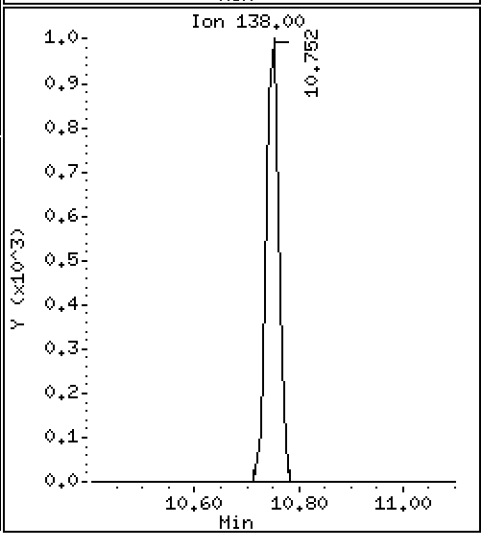


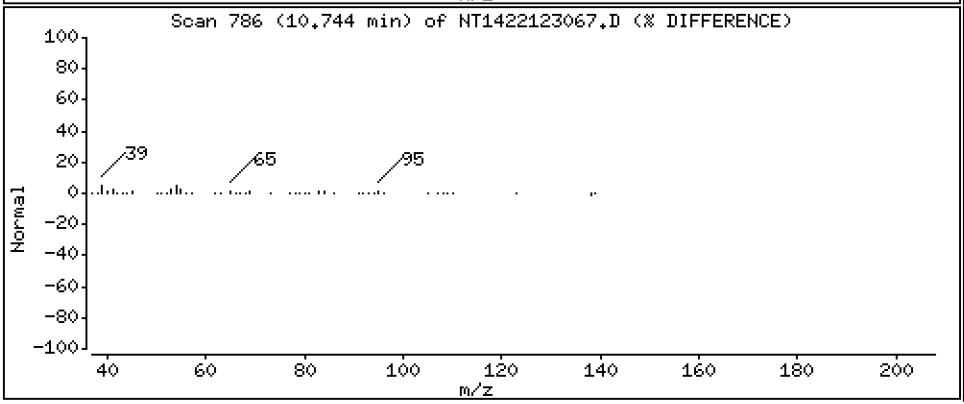












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

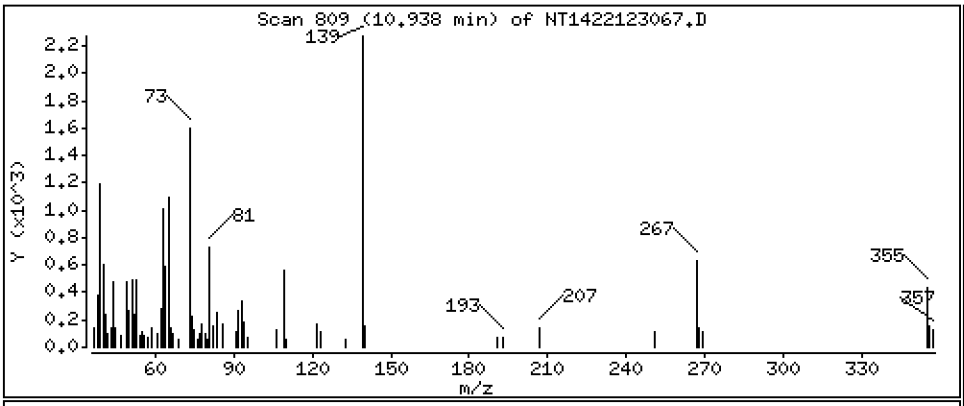
Operator: VTS

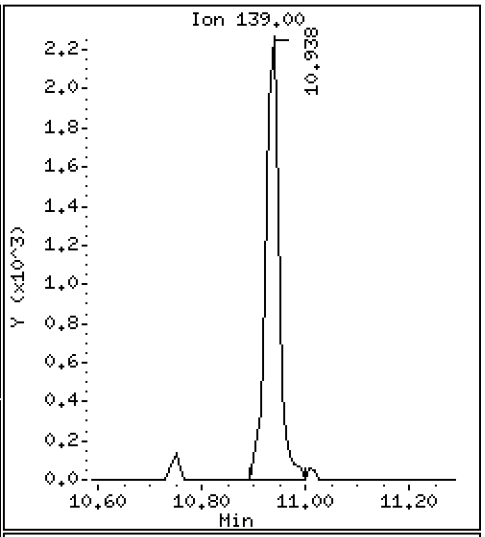
Column phase: ZB-5msi

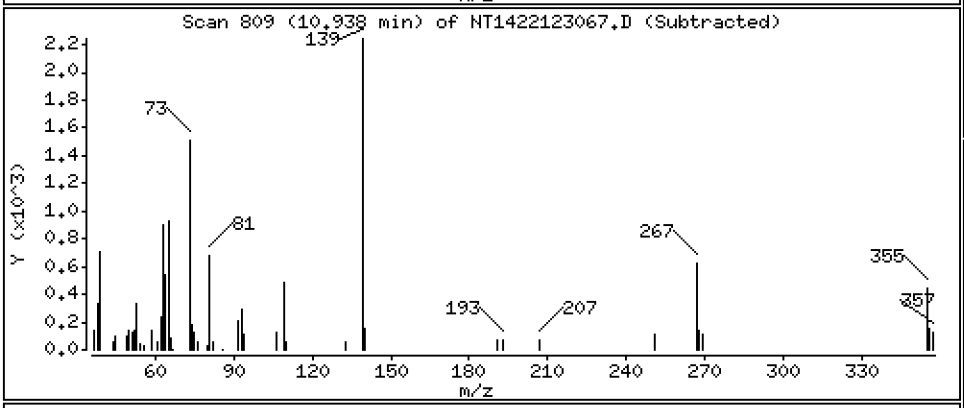
Column diameter: 0.25

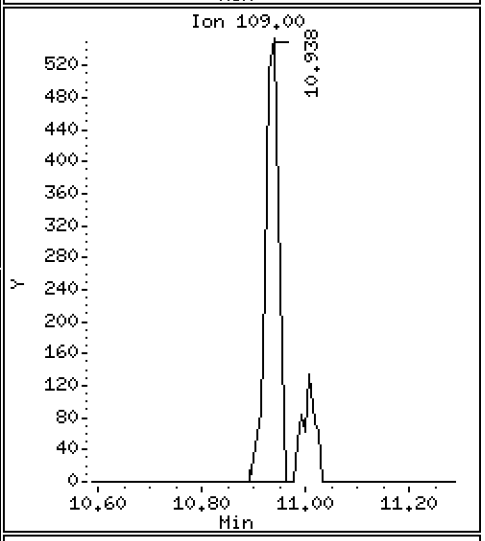
21 2-Nitrophenol

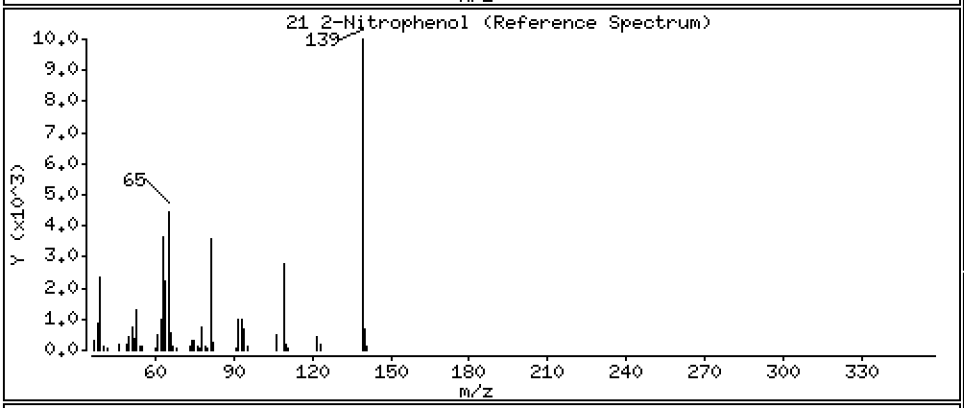
Concentration: 0.2116 ug/mL

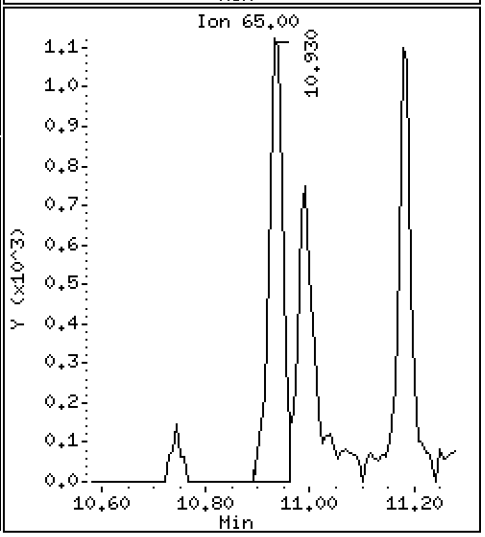


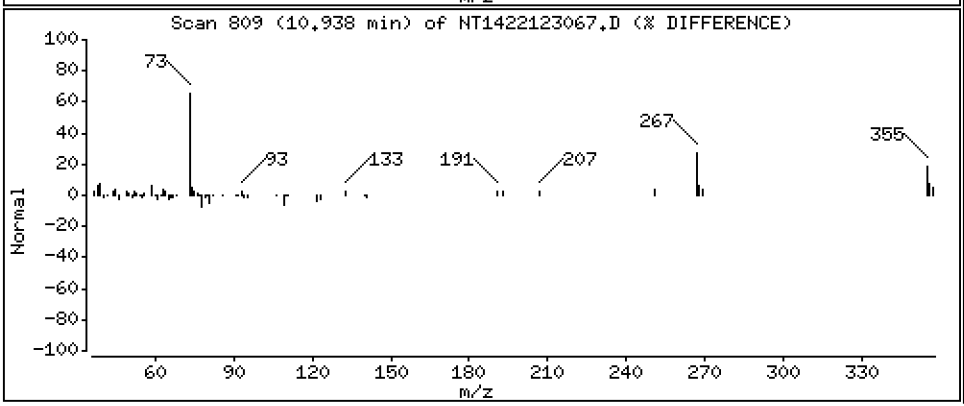












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

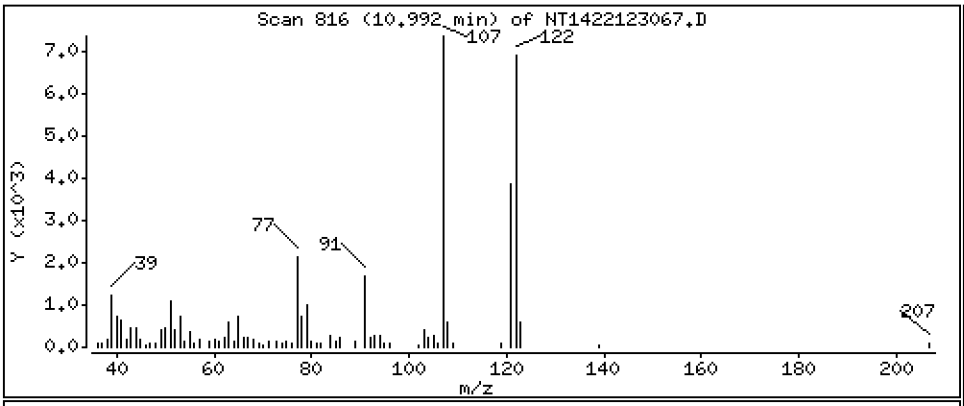
Operator: VTS

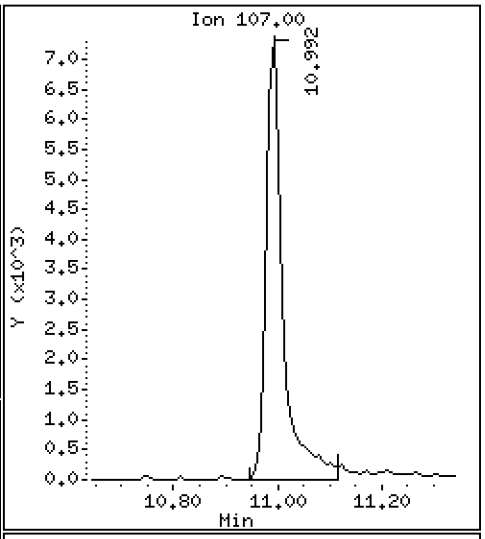
Column phase: ZB-5msi

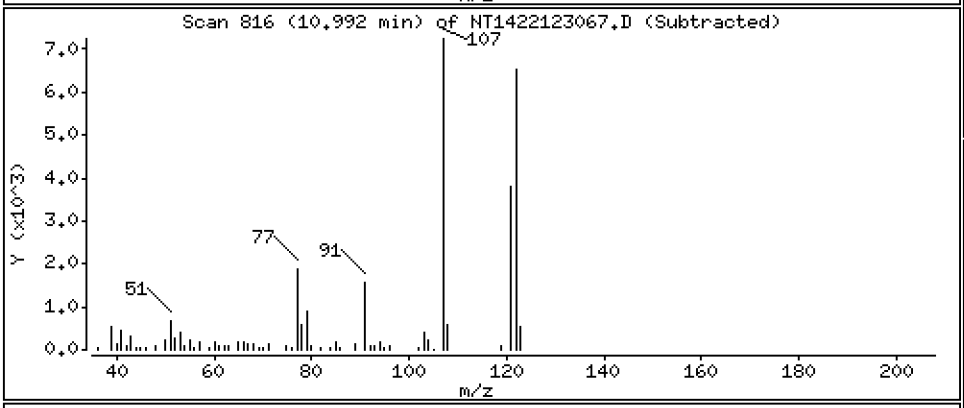
Column diameter: 0.25

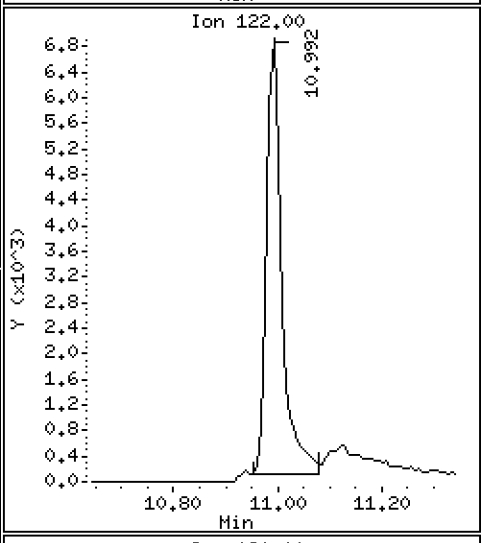
22 2,4-Dimethylphenol

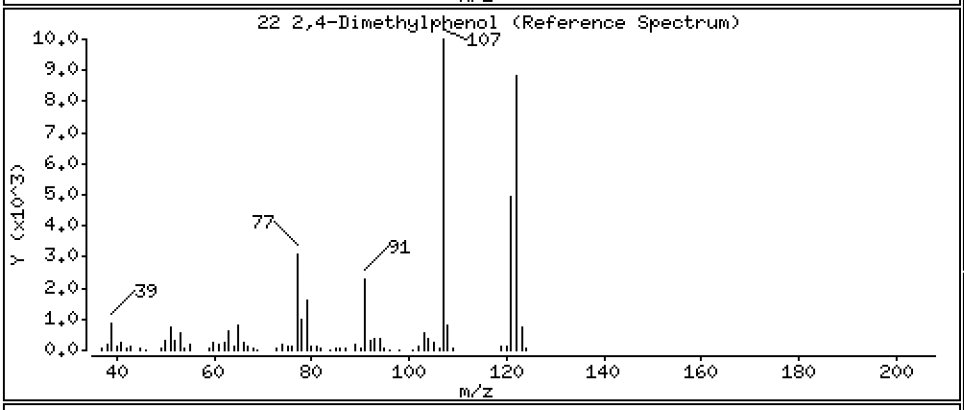
Concentration: 0.4590 ug/mL

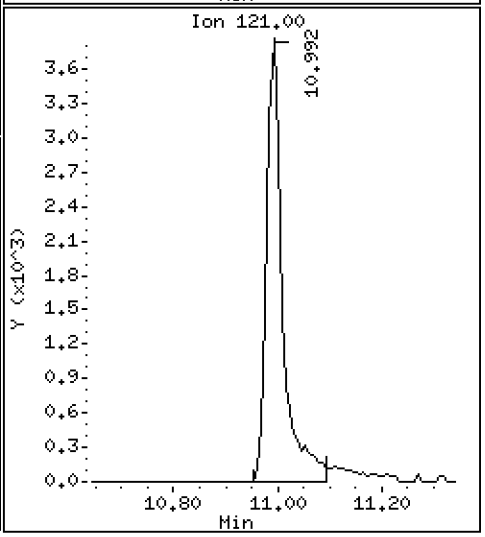


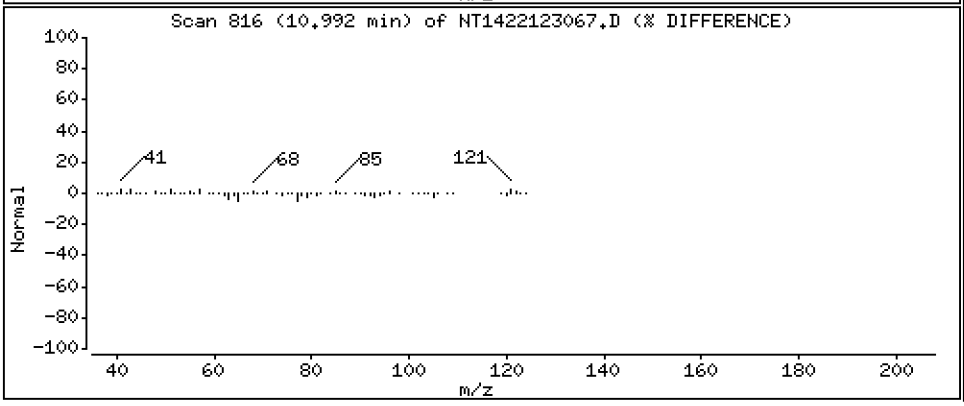












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

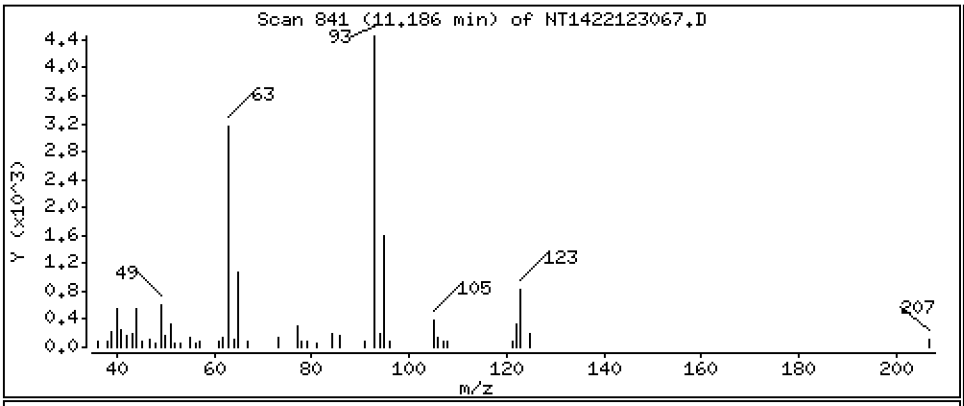
Operator: VTS

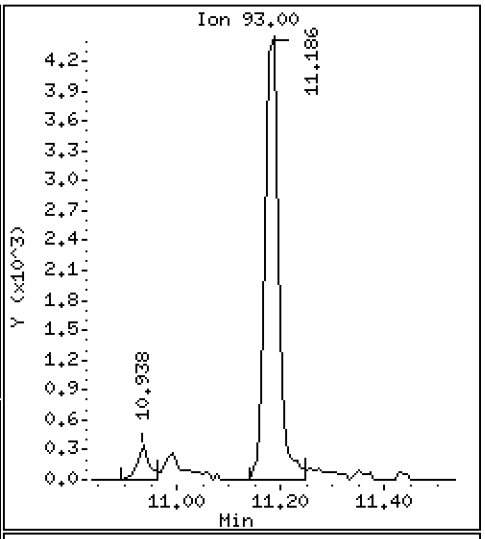
Column phase: ZB-5msi

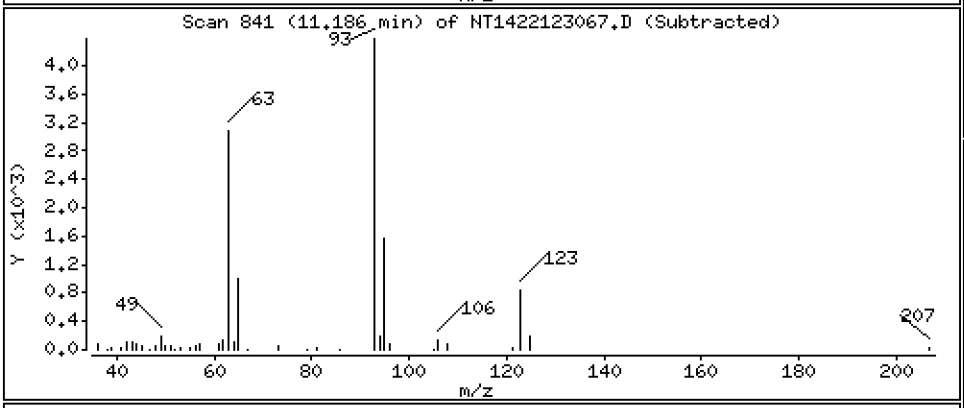
Column diameter: 0.25

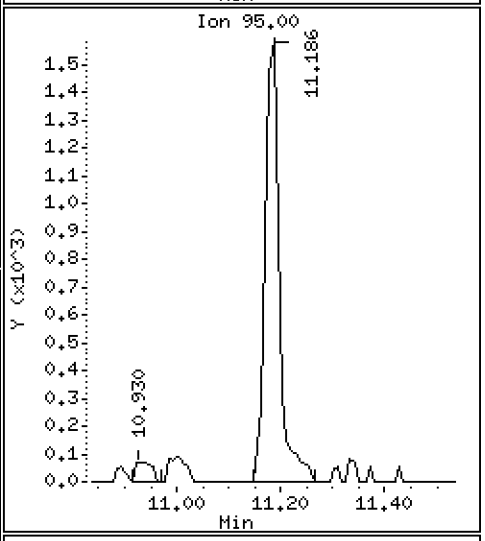
23 Bis(2-Chloroethoxy)methane

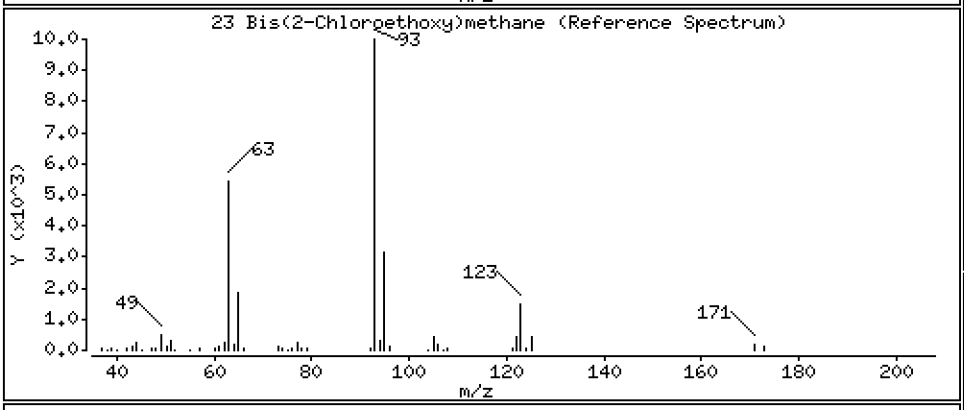
Concentration: 0.2359 ug/mL

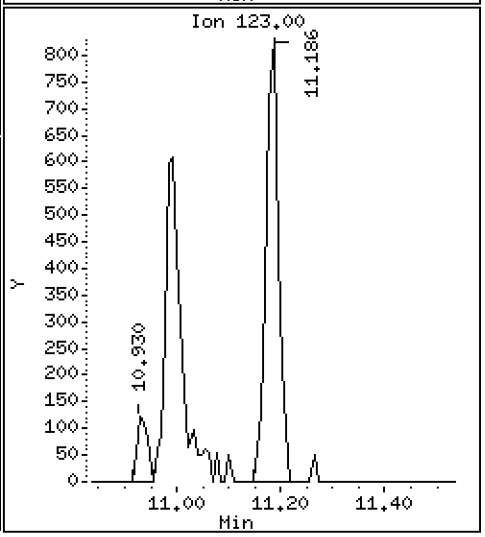


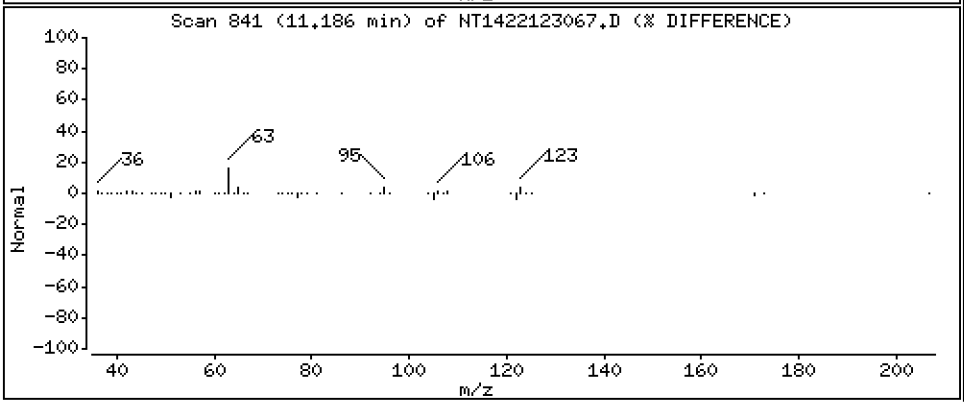












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

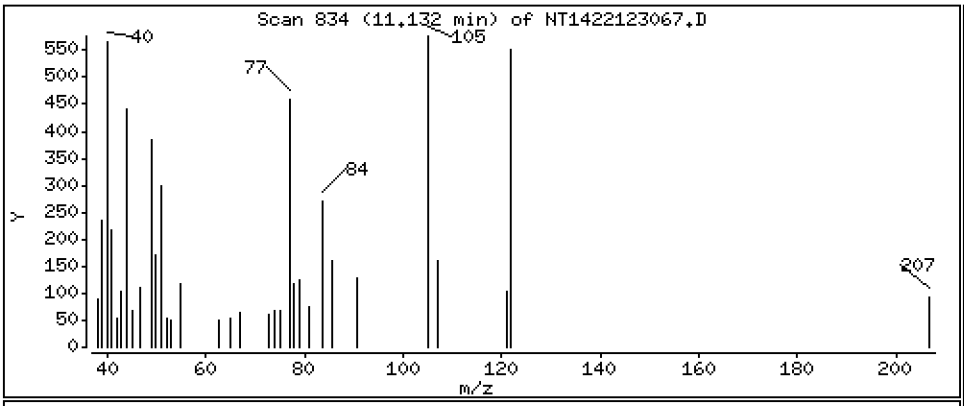
Operator: VTS

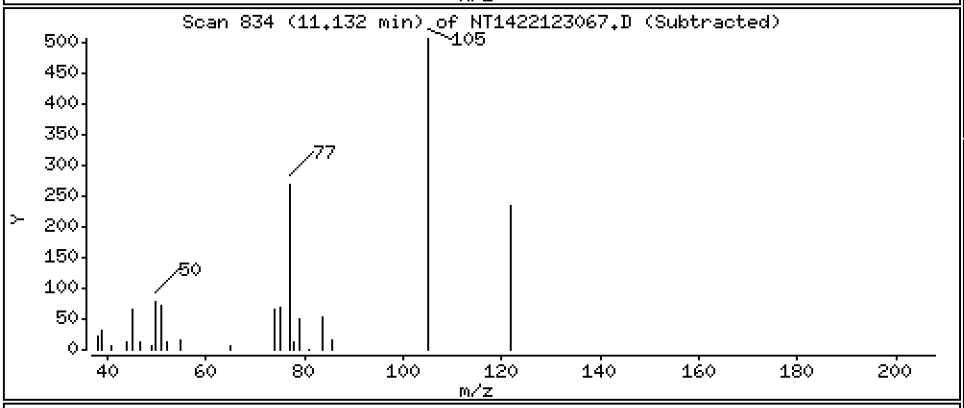
Column phase: ZB-5msi

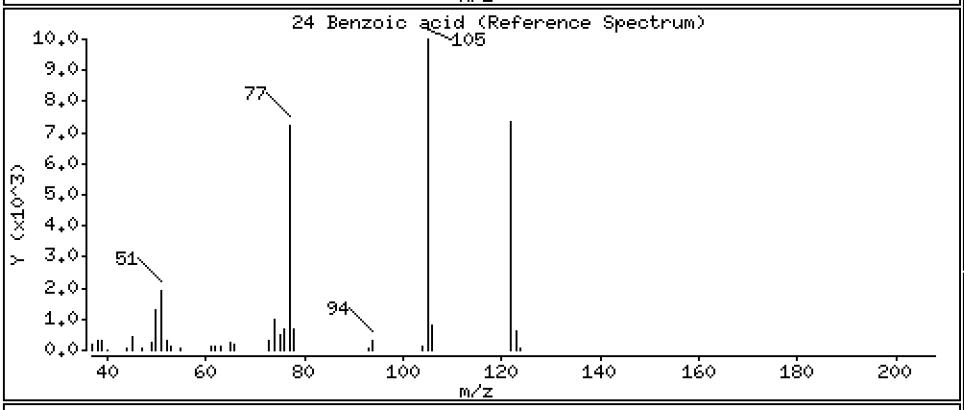
Column diameter: 0.25

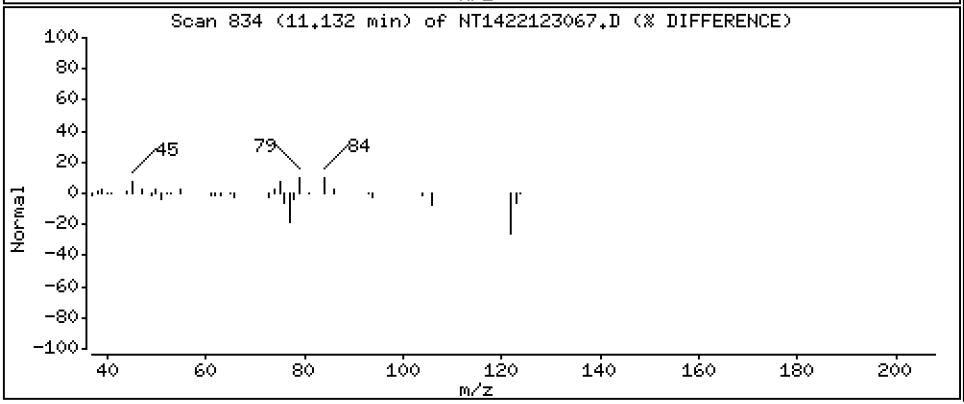
24 Benzoic acid

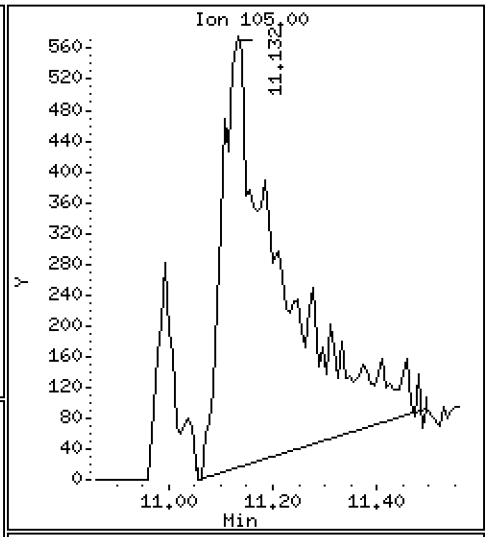
Concentration: 0.2097 ug/mL

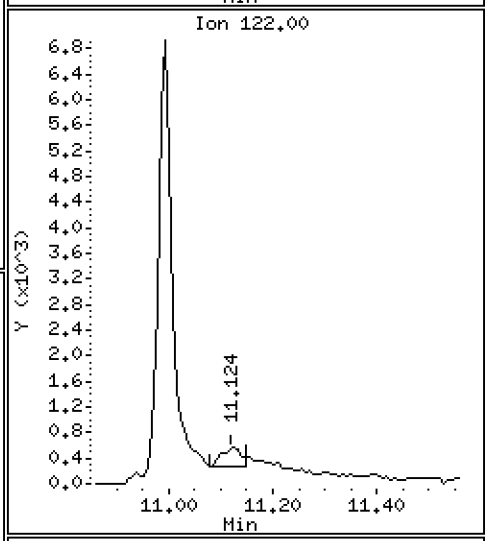


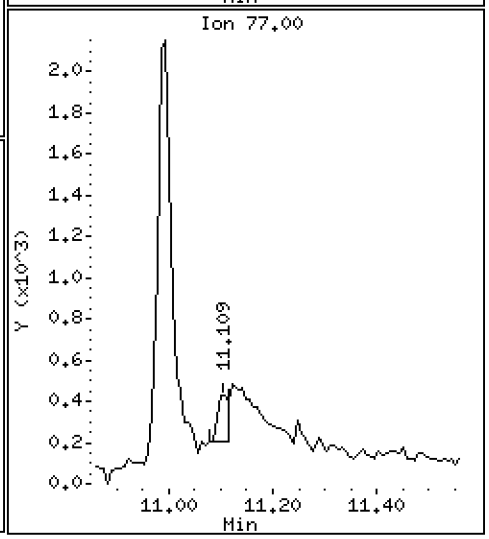












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

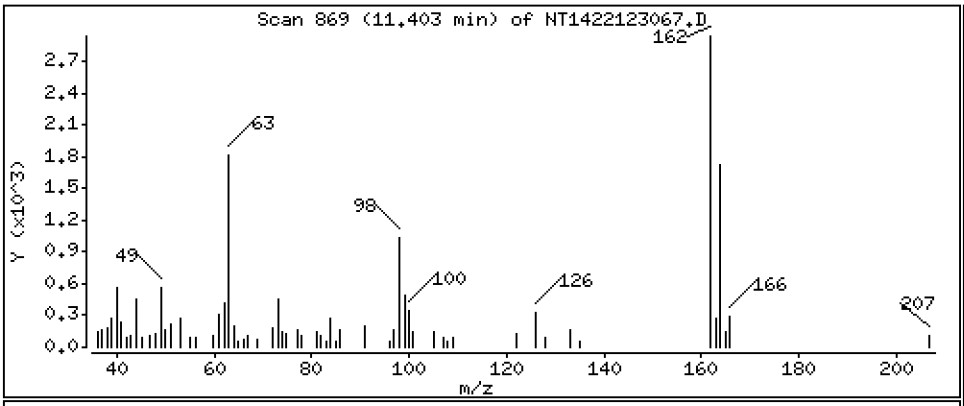
Operator: VTS

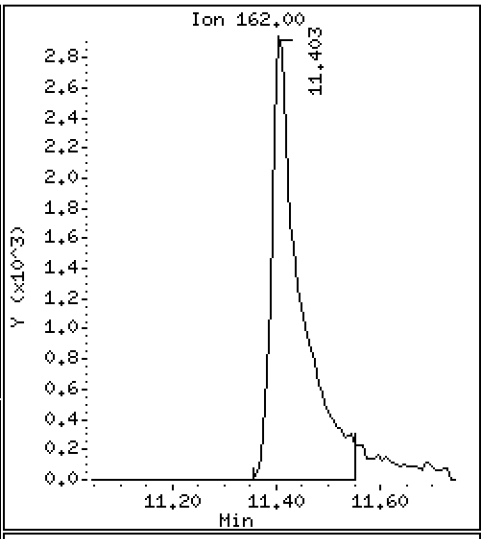
Column phase: ZB-5msi

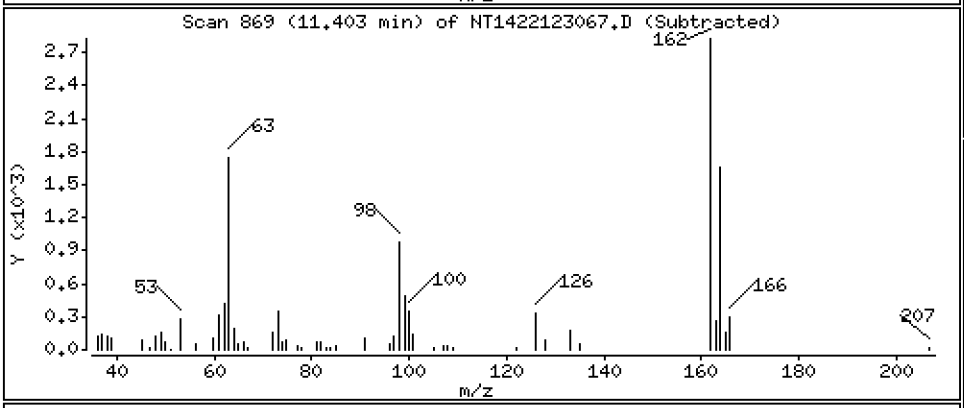
Column diameter: 0.25

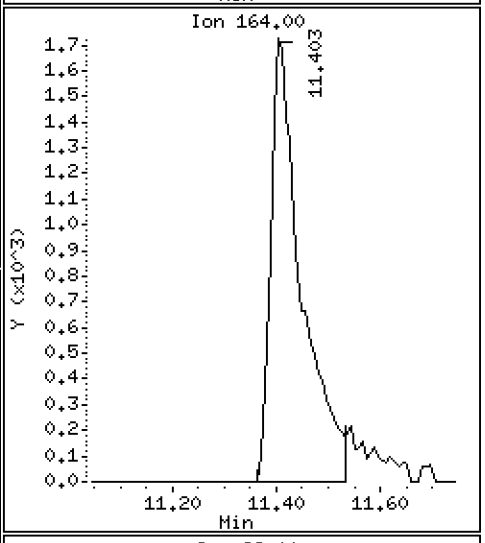
25 2,4-Dichlorophenol

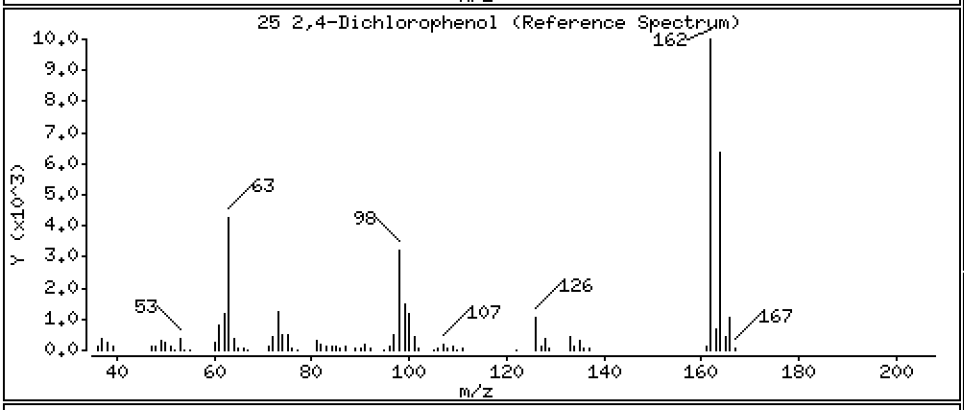
Concentration: 0.4100 ug/mL

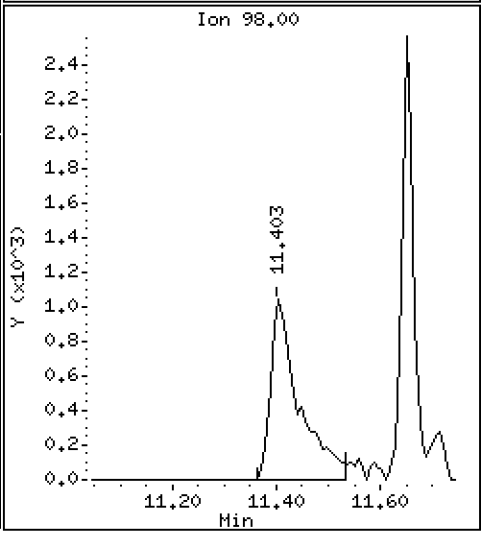


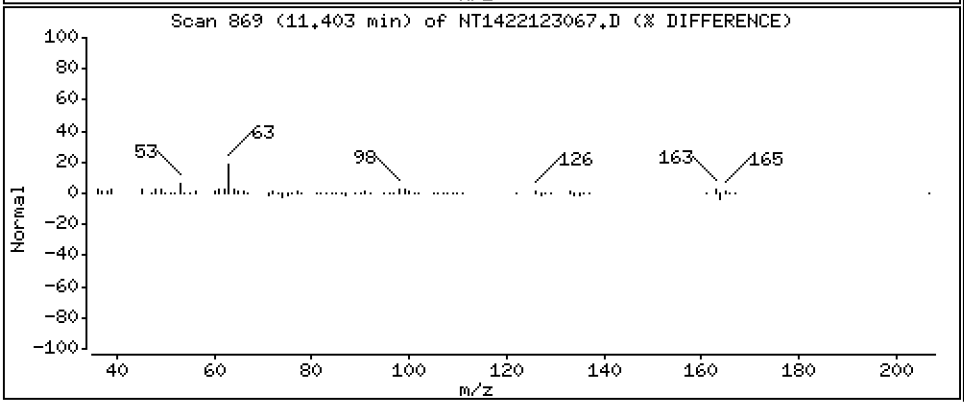












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

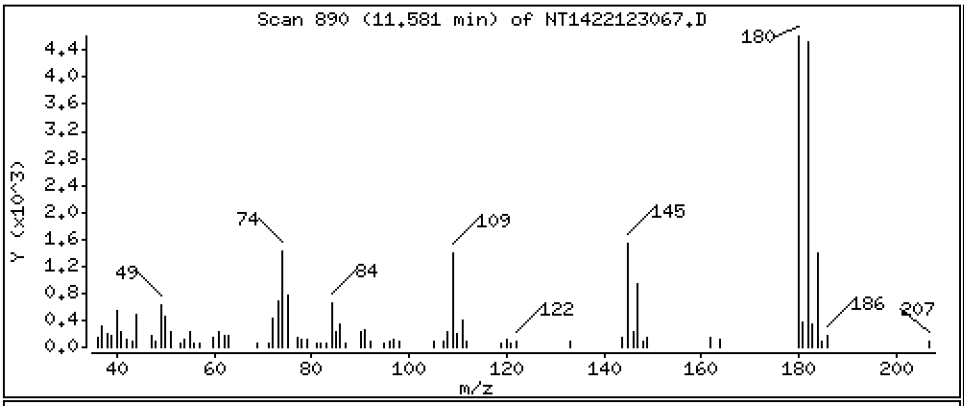
Operator: VTS

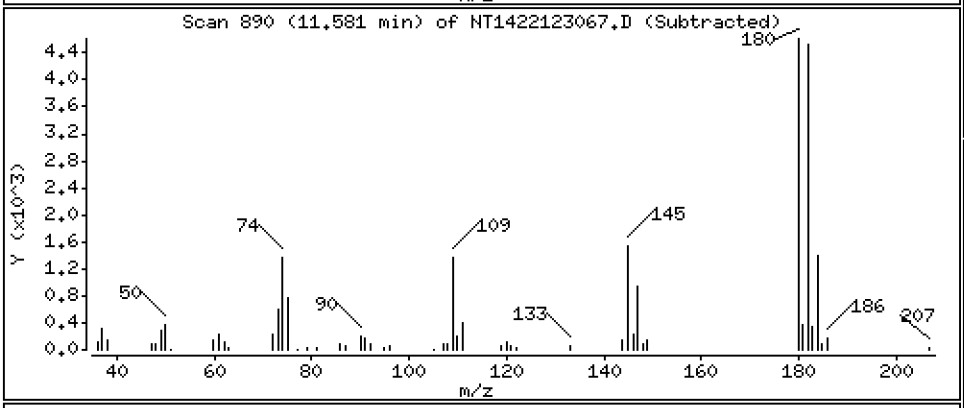
Column phase: ZB-5msi

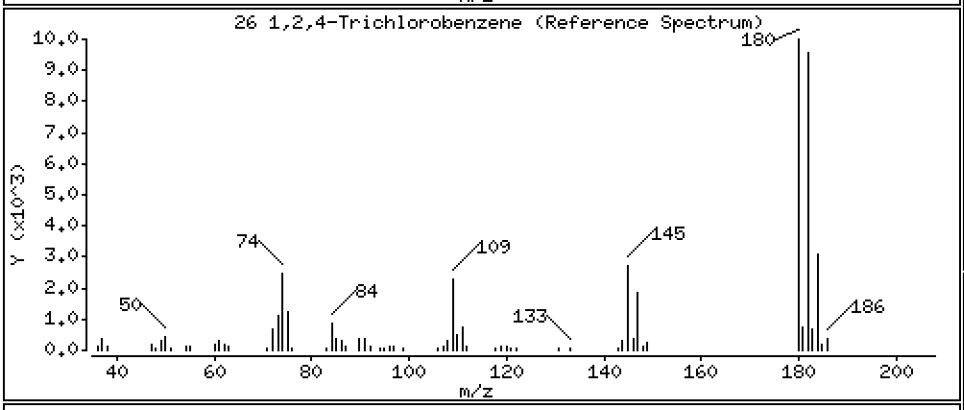
Column diameter: 0.25

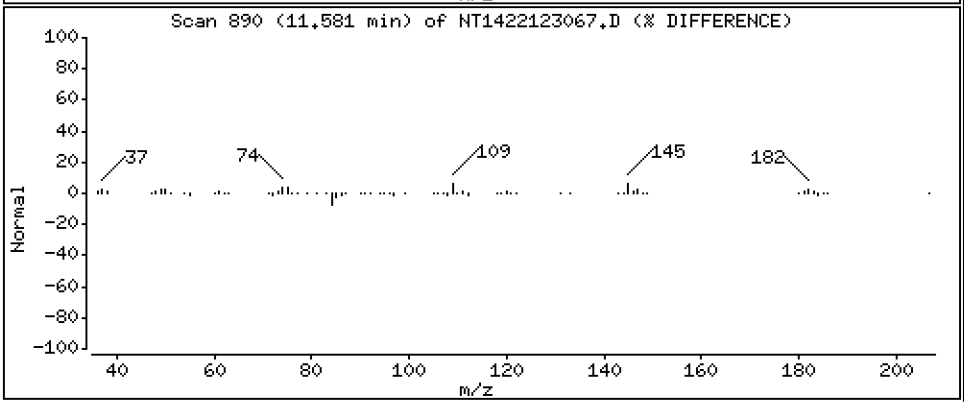
26 1,2,4-Trichlorobenzene

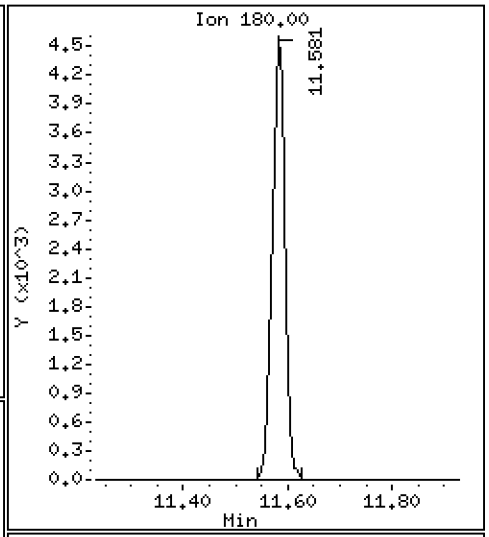
Concentration: 0.2401 ug/mL

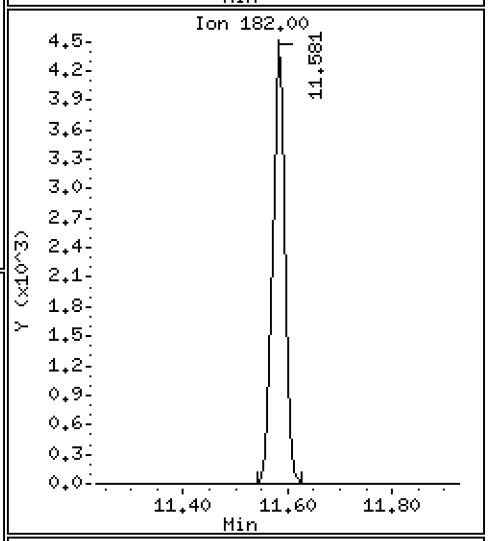


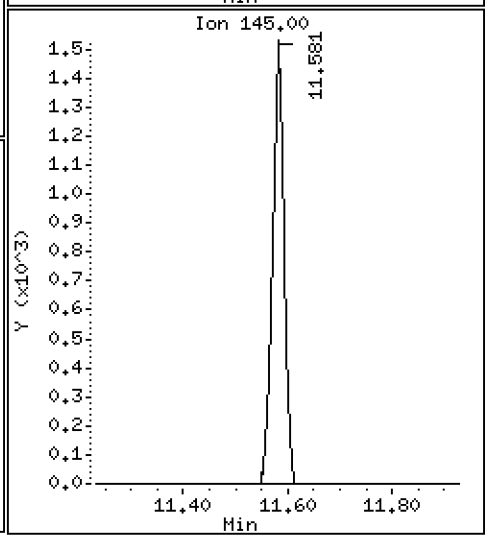












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

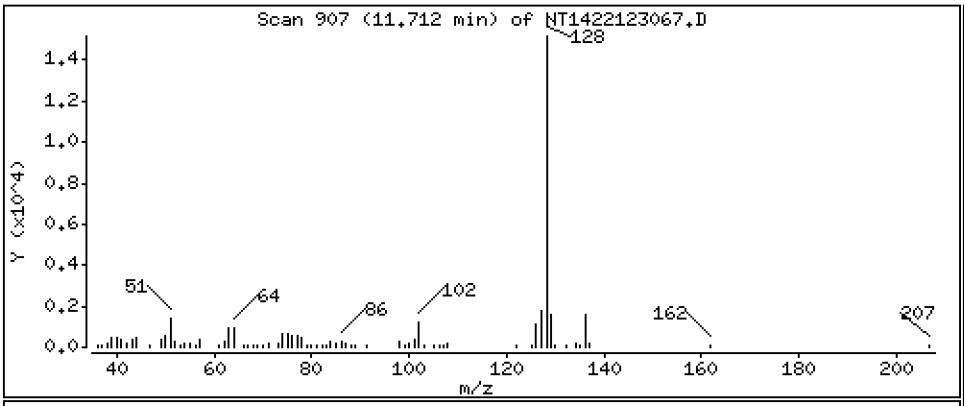
Operator: VTS

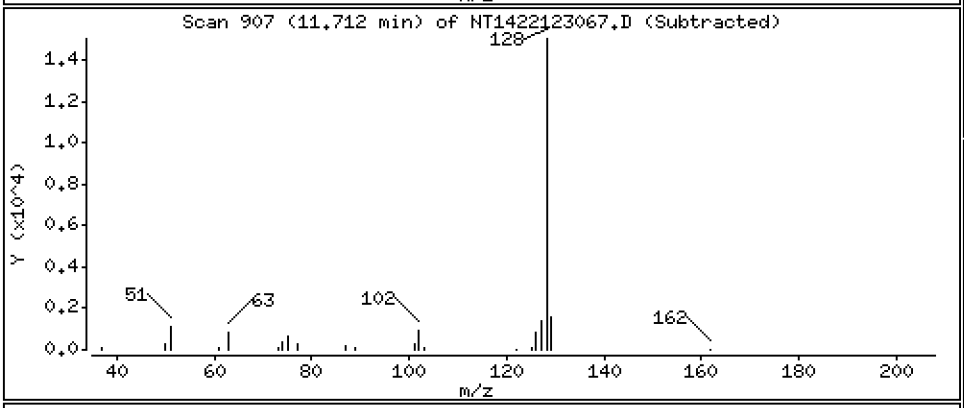
Column phase: ZB-5msi

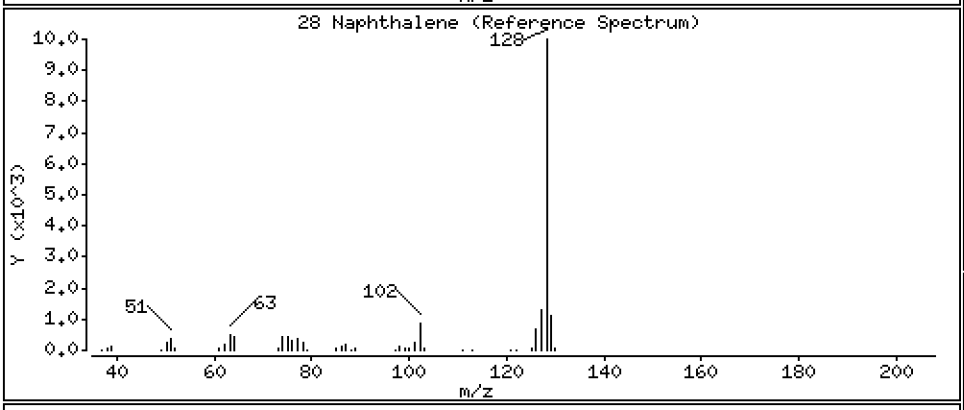
Column diameter: 0.25

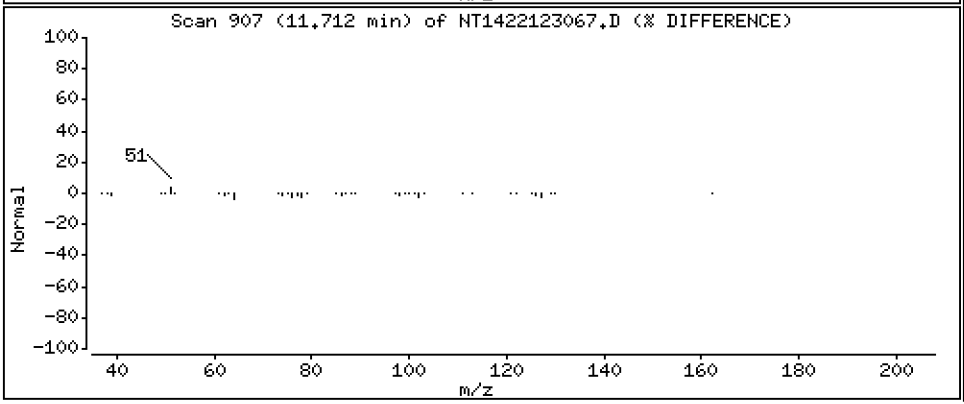
28 Naphthalene

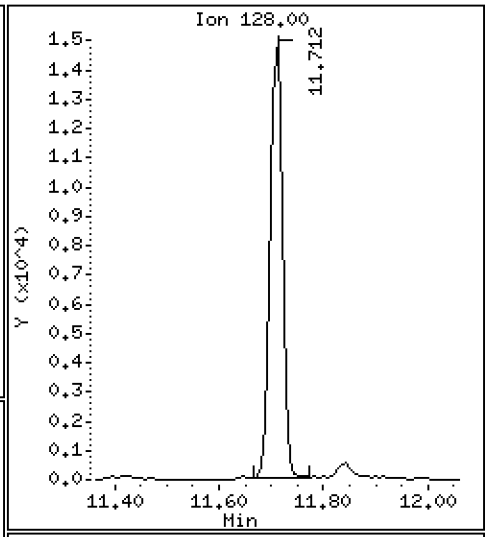
Concentration: 0.2355 ug/mL

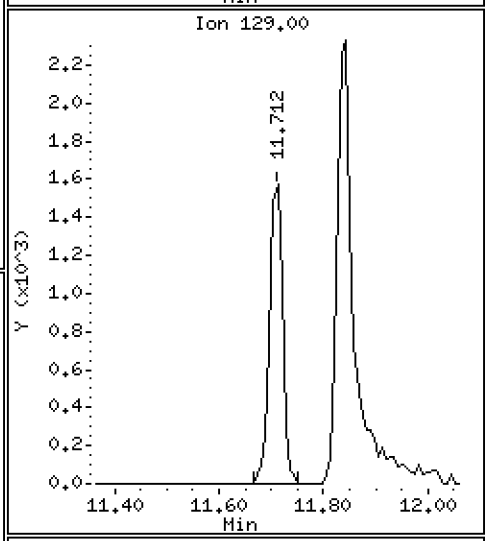


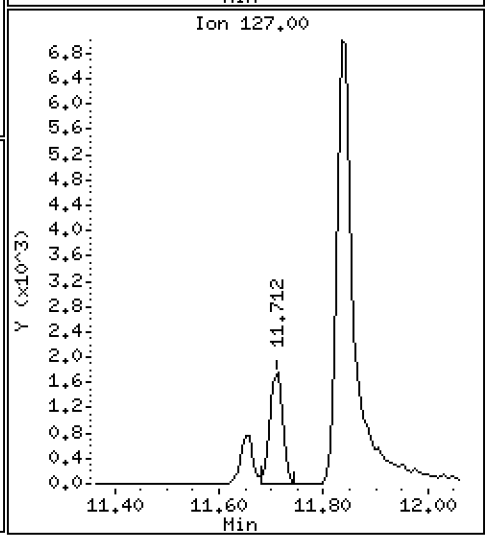












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

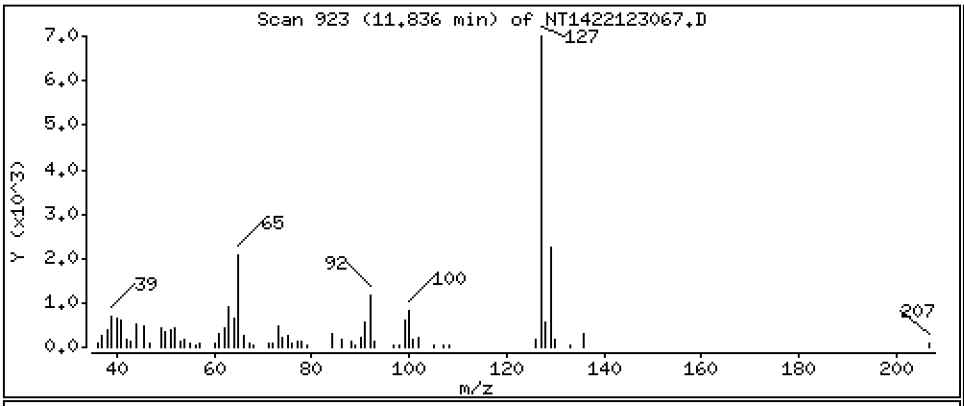
Operator: VTS

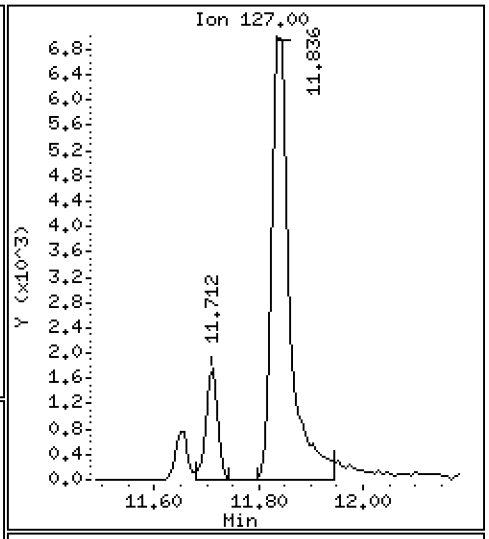
Column phase: ZB-5msi

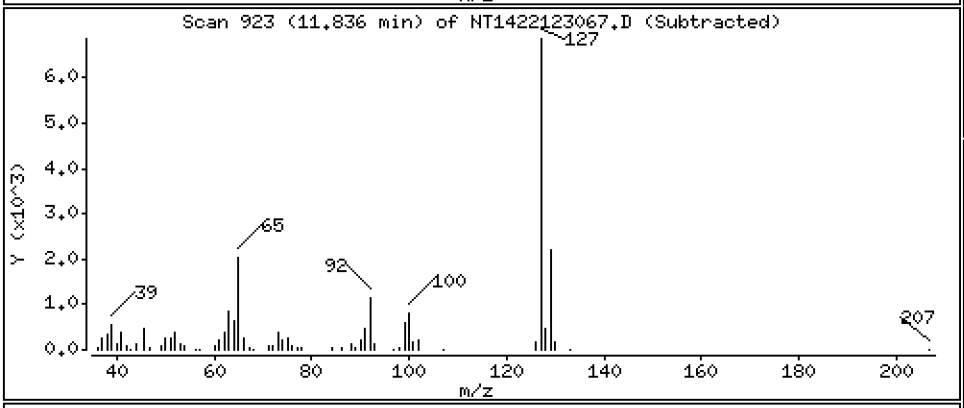
Column diameter: 0.25

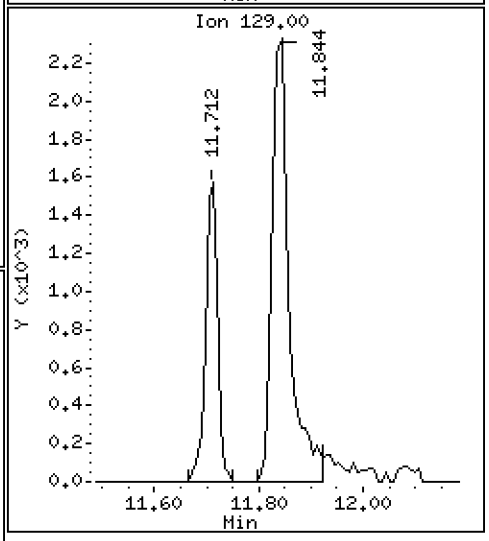
29 4-Chloroaniline

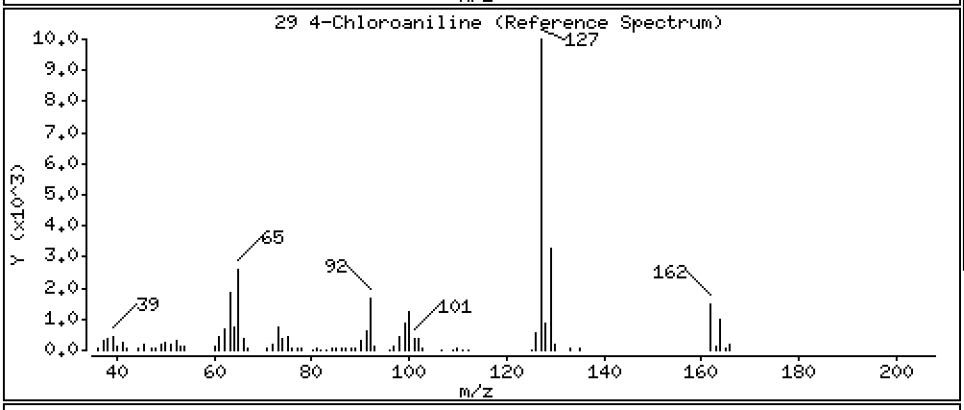
Concentration: 0.4051 ug/mL

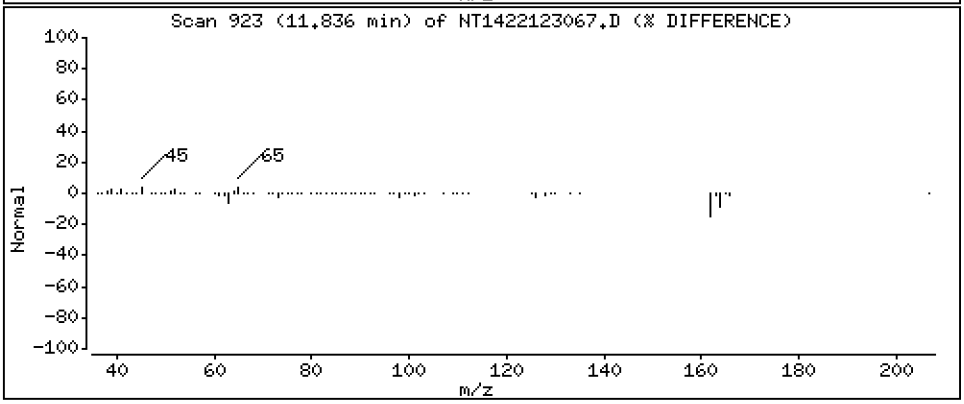












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

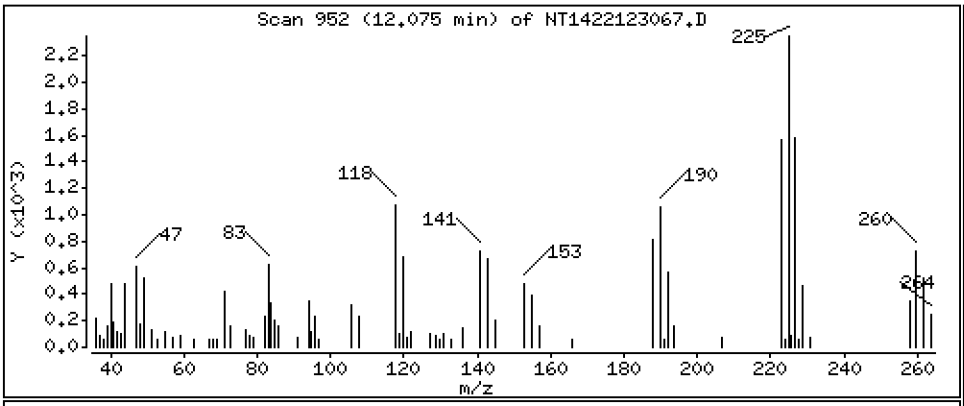
Operator: VTS

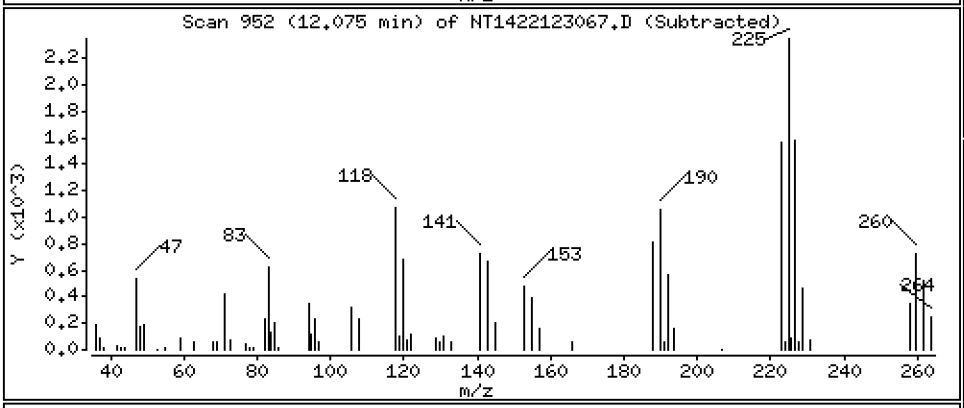
Column phase: ZB-5msi

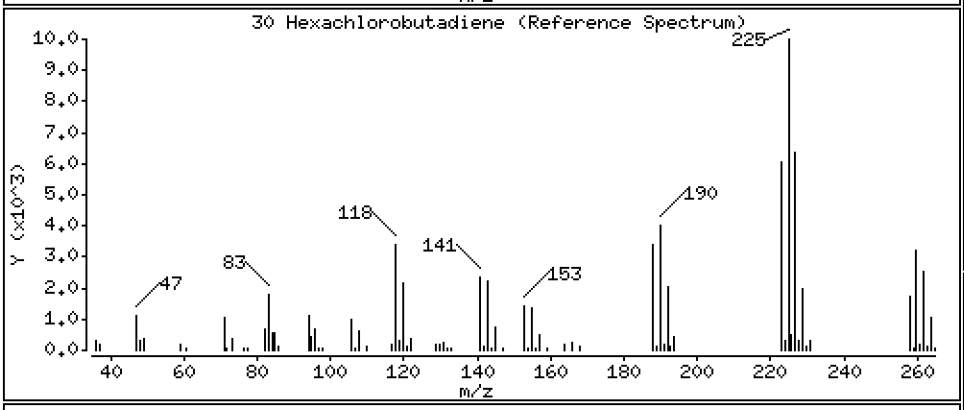
Column diameter: 0.25

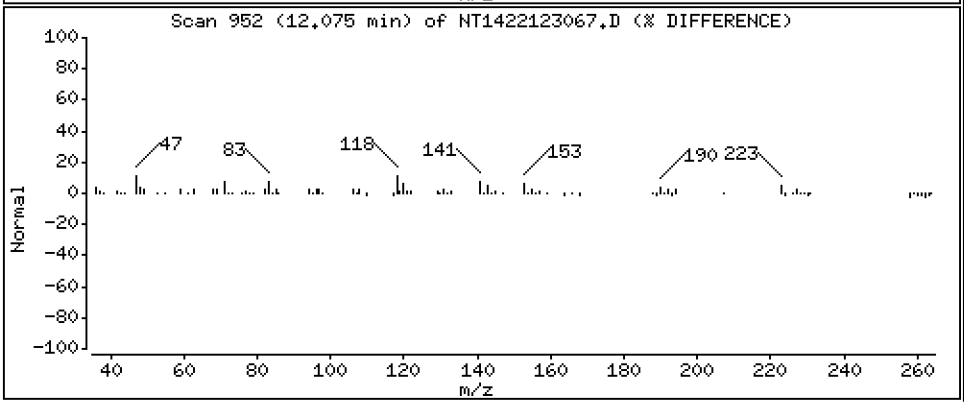
30 Hexachlorobutadiene

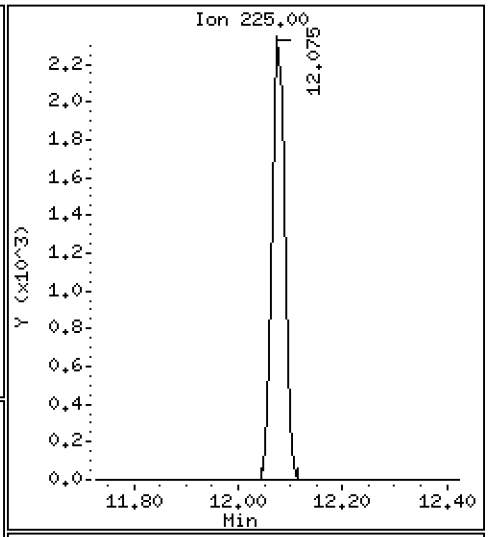
Concentration: 0.2380 ug/mL

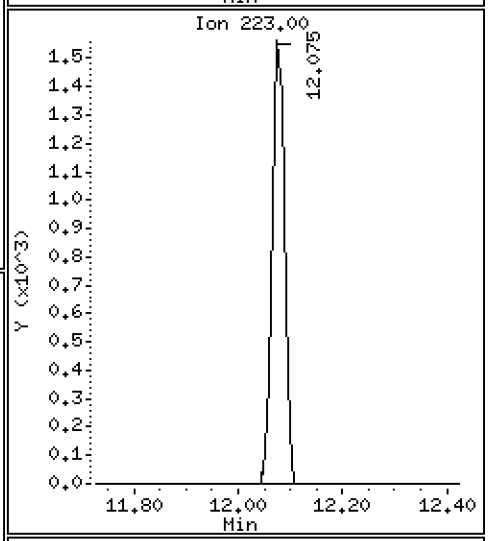


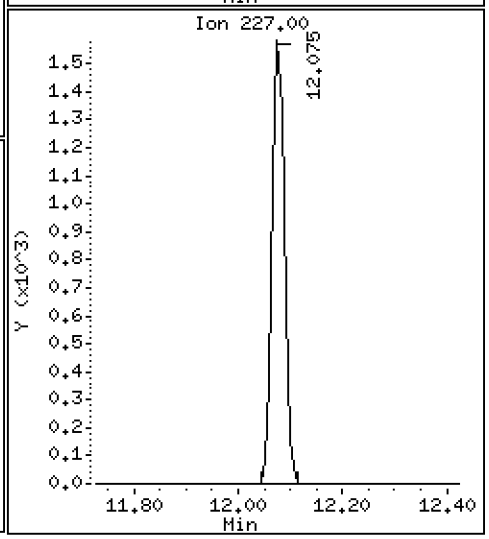












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

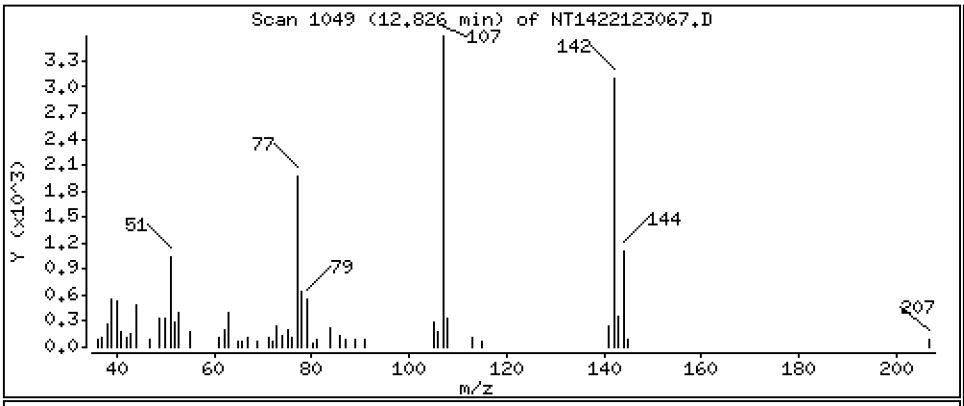
Operator: VTS

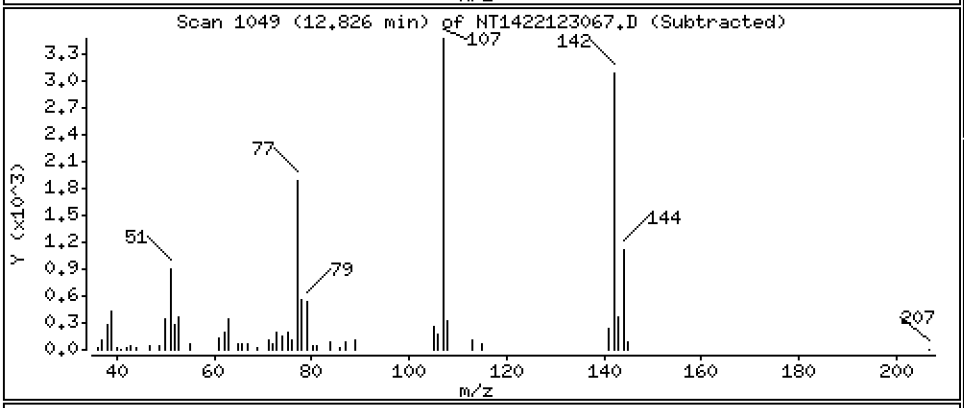
Column phase: ZB-5msi

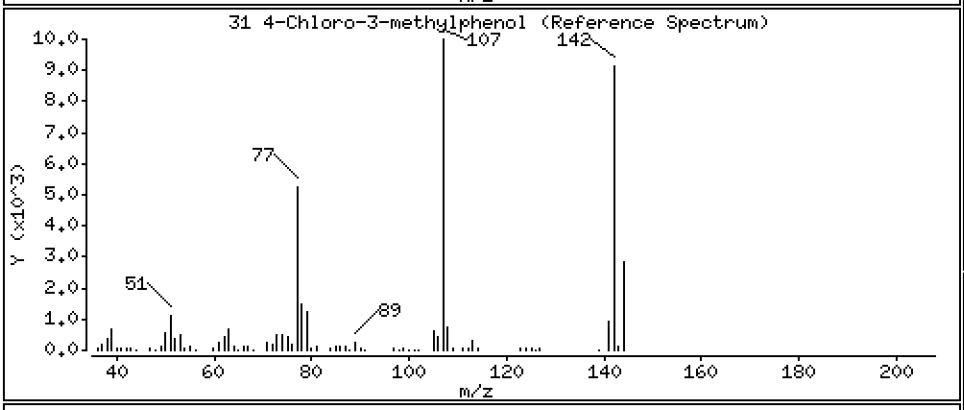
Column diameter: 0.25

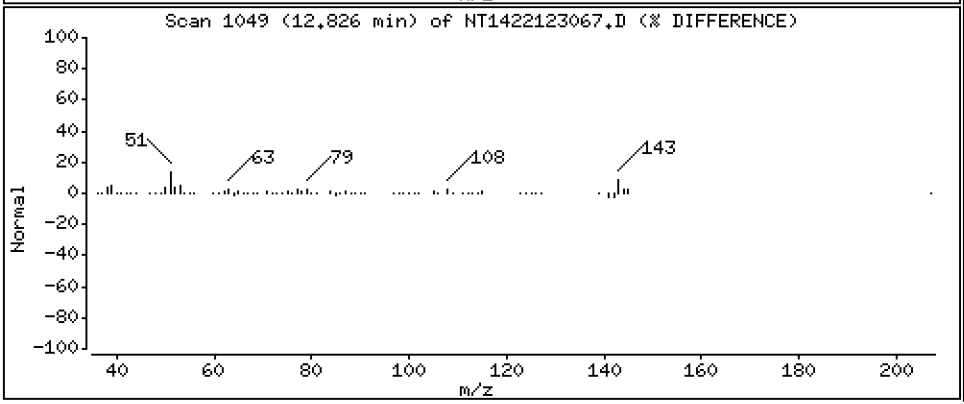
31 4-Chloro-3-methylphenol

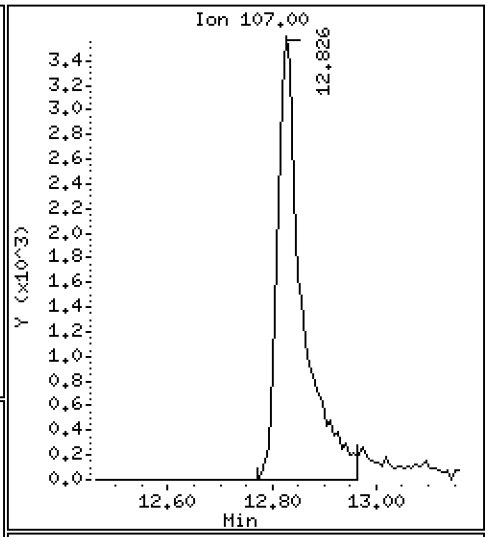
Concentration: 0.4327 ug/mL

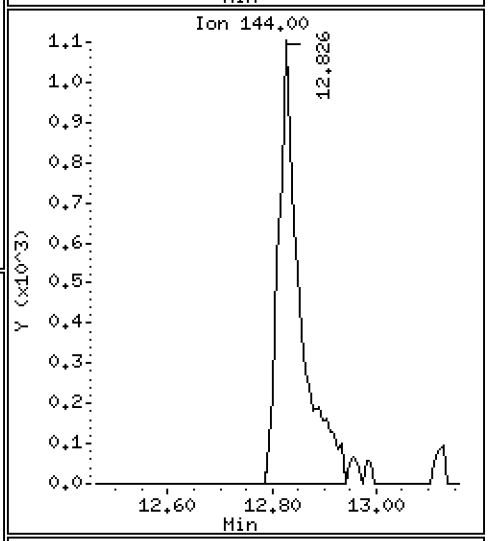


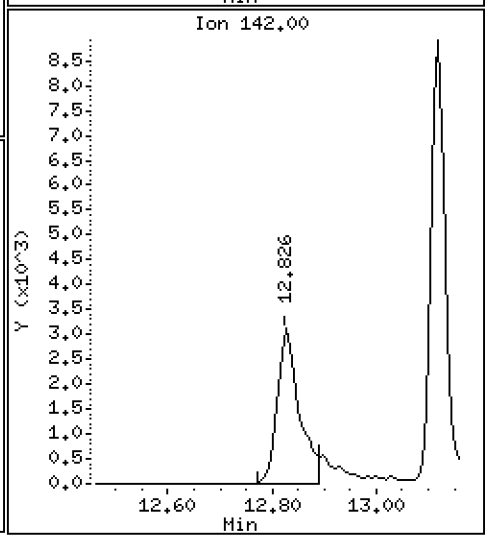












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

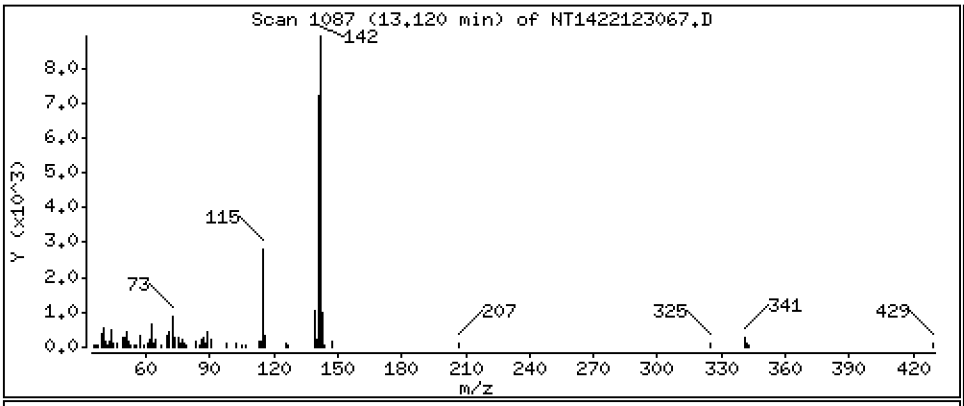
Operator: VTS

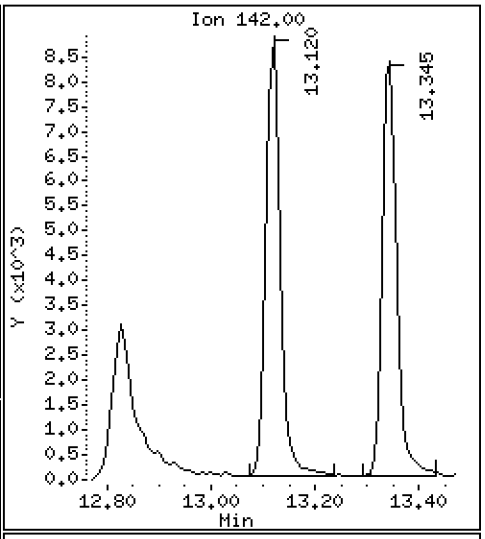
Column phase: ZB-5msi

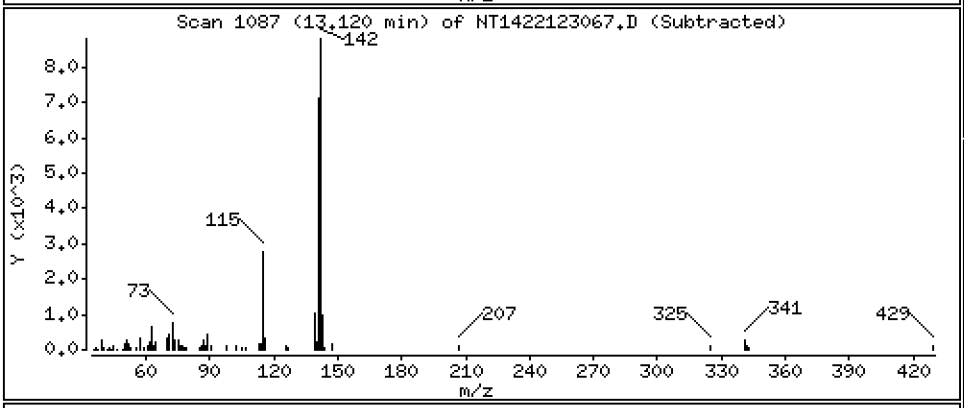
Column diameter: 0.25

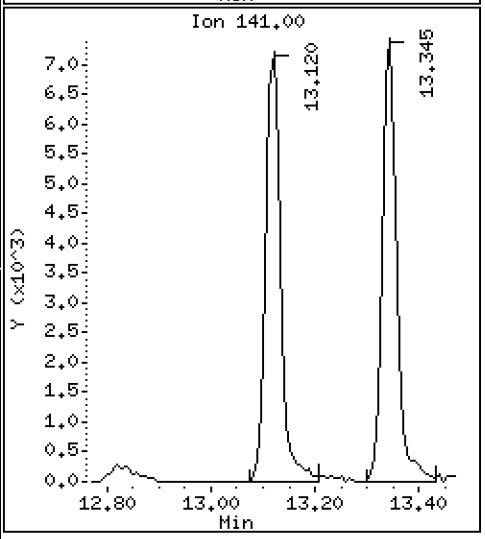
32 2-Methylnaphthalene

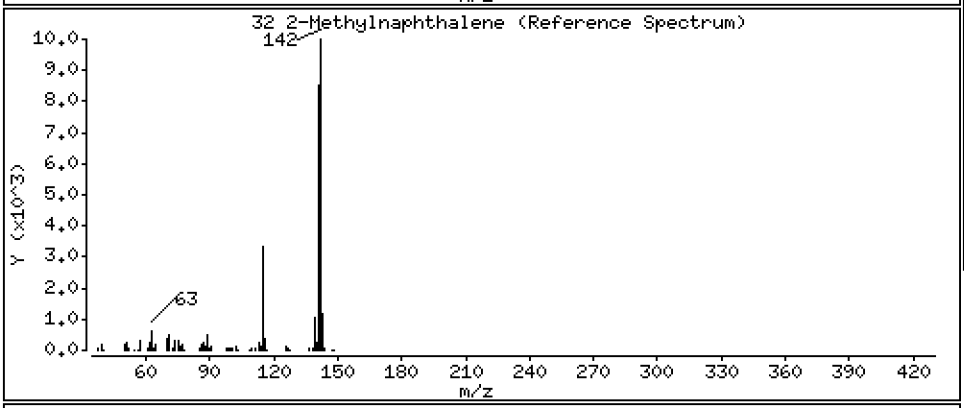
Concentration: 0.2270 ug/mL

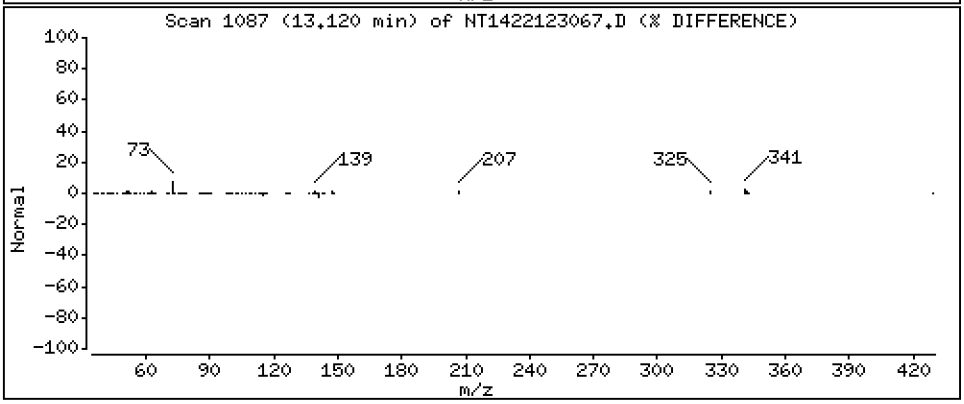












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123067.D

Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

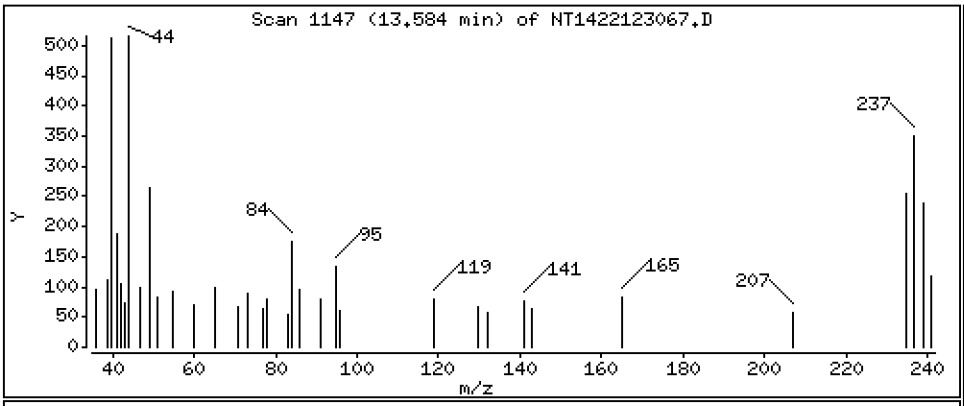
Operator: VTS

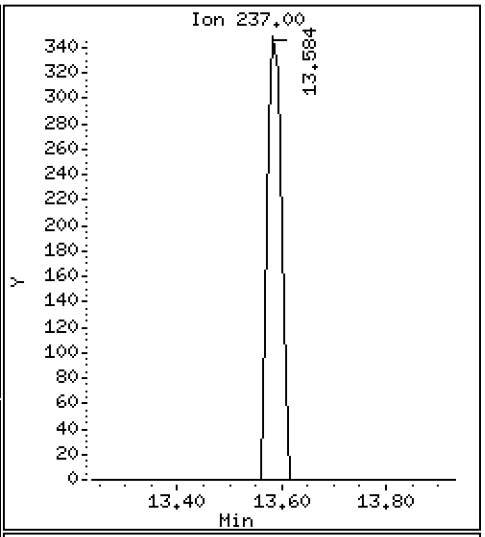
Column phase: ZB-5msi

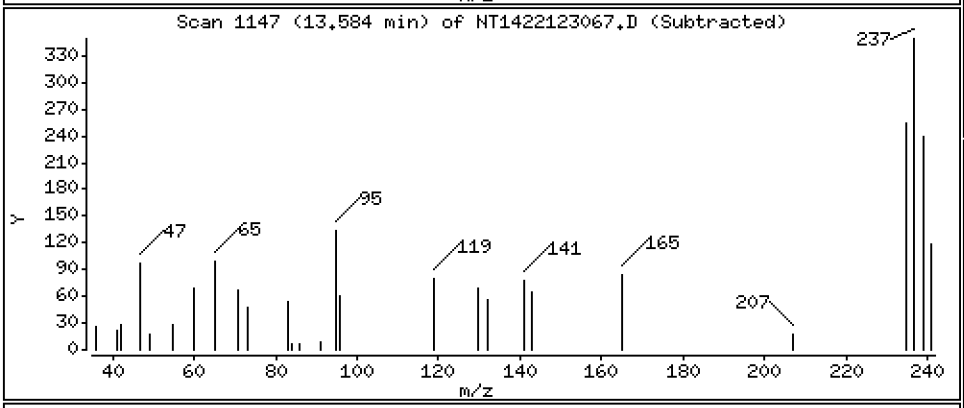
Column diameter: 0.25

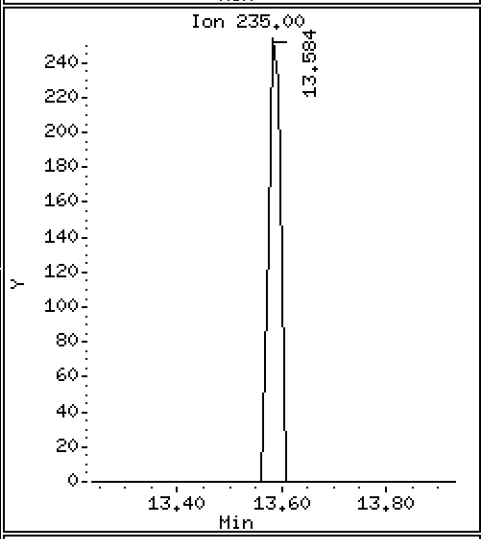
33 Hexachlorocyclopentadiene

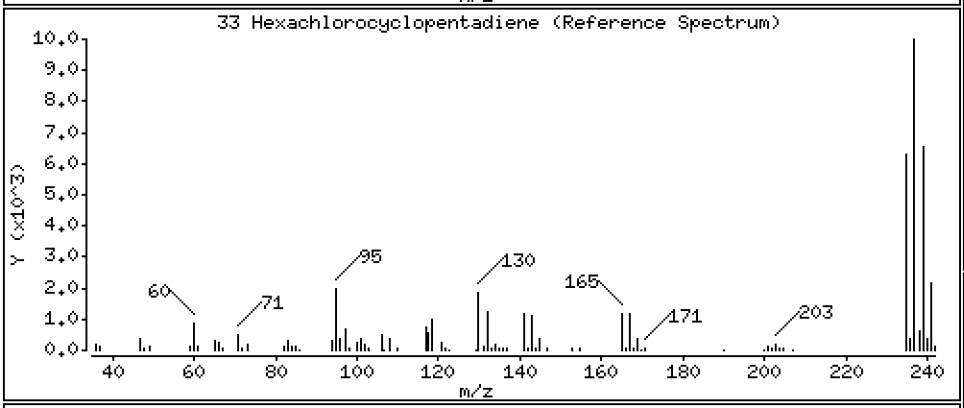
Concentration: 0.04042 ug/mL

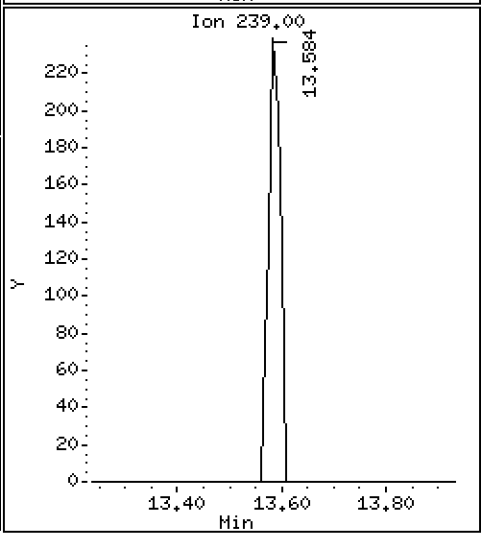


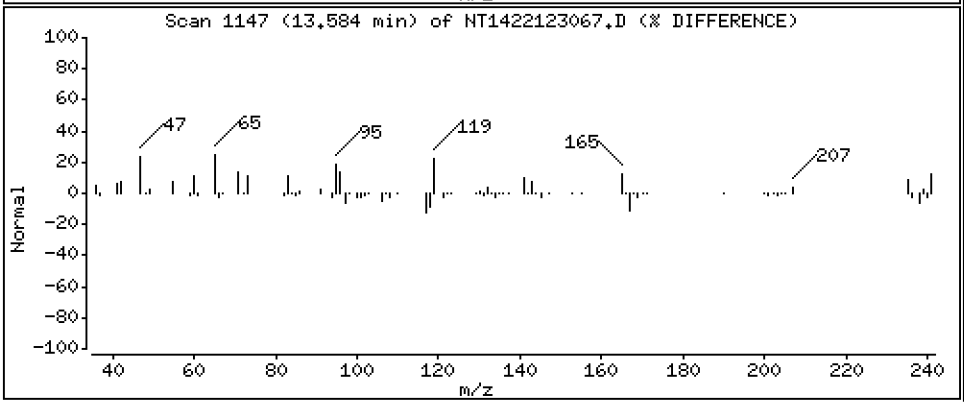












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

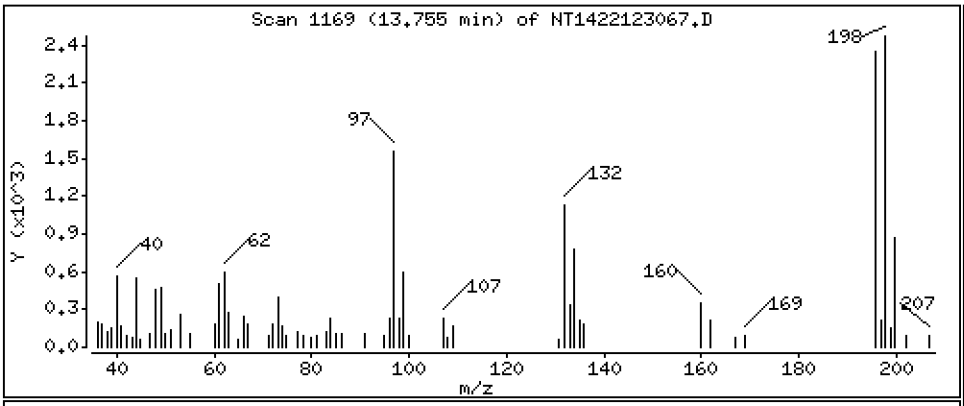
Operator: VTS

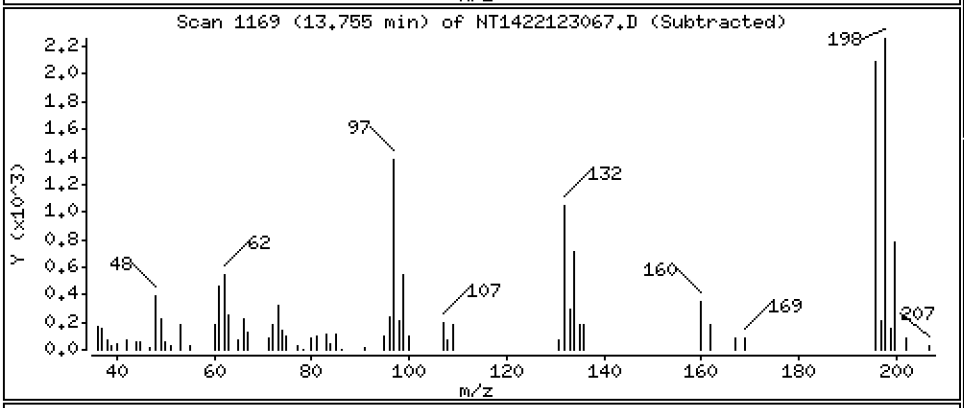
Column phase: ZB-5msi

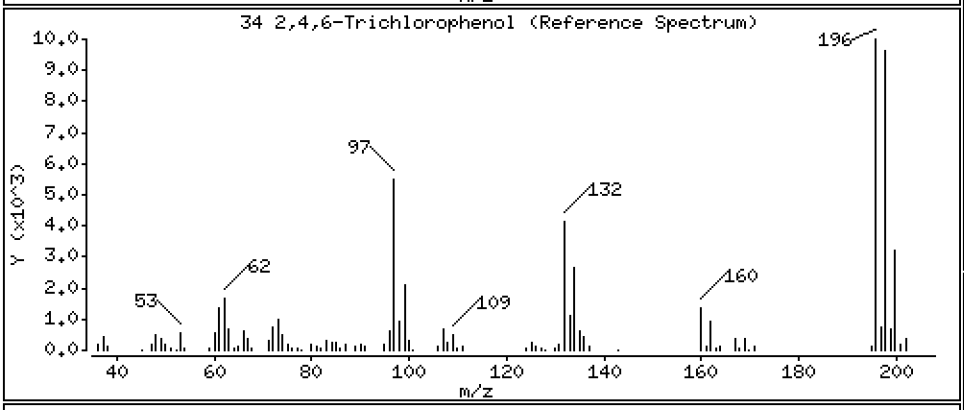
Column diameter: 0.25

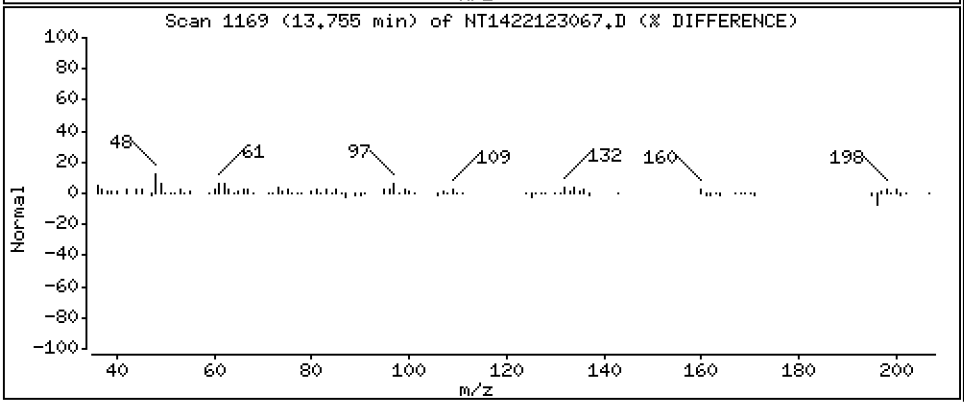
34 2,4,6-Trichlorophenol

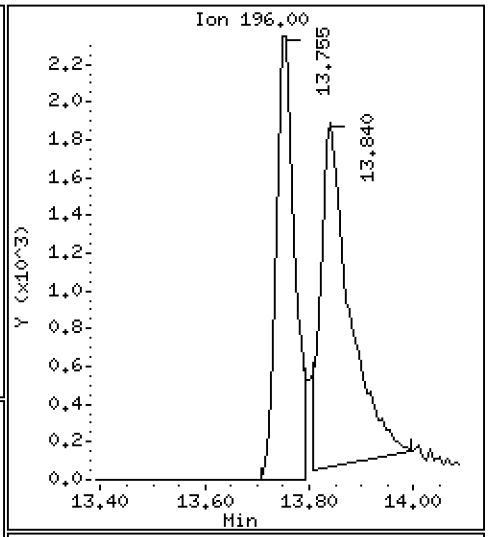
Concentration: 0.3442 ug/mL

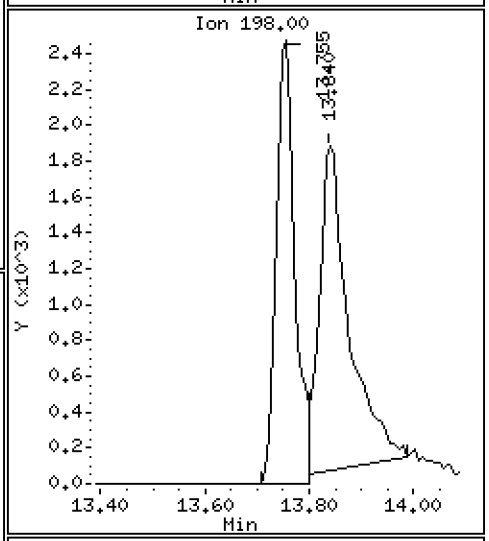


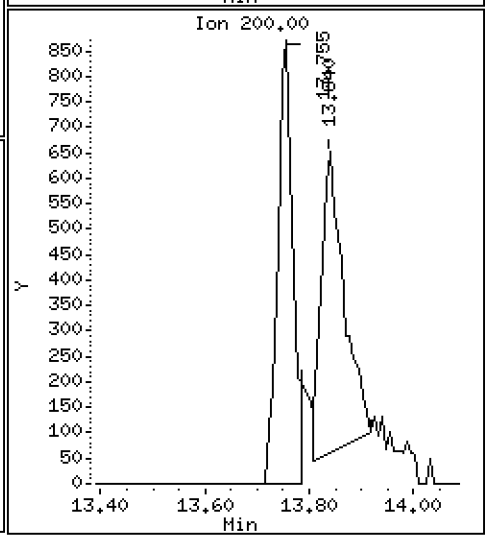












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

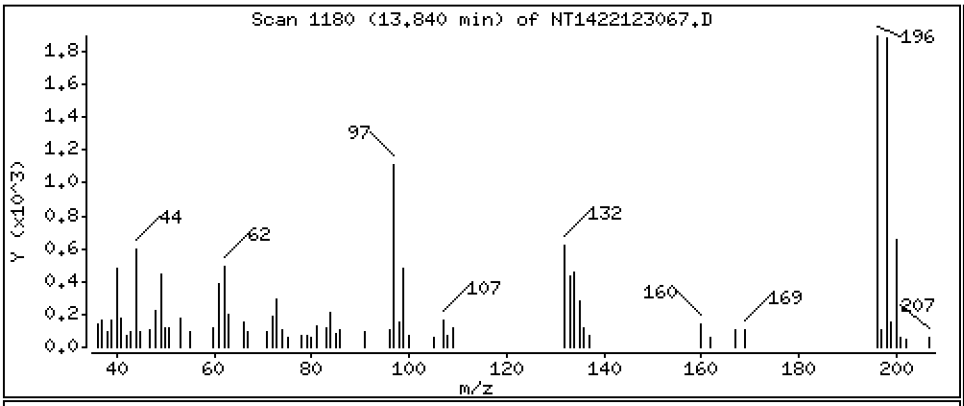
Operator: VTS

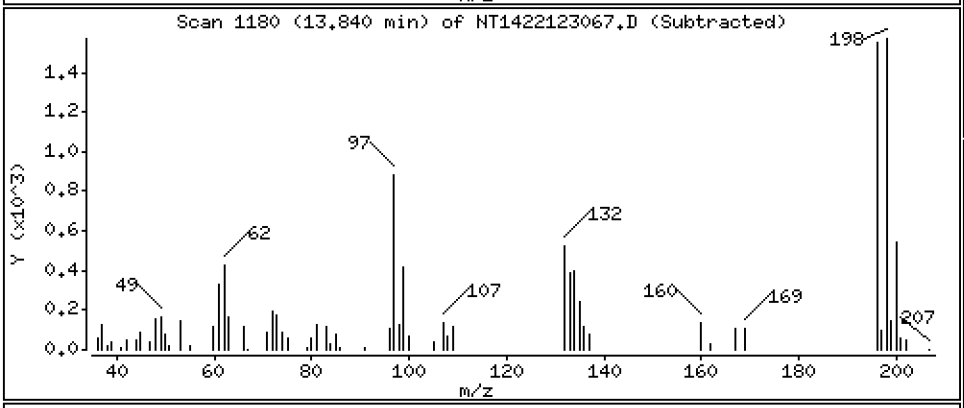
Column phase: ZB-5msi

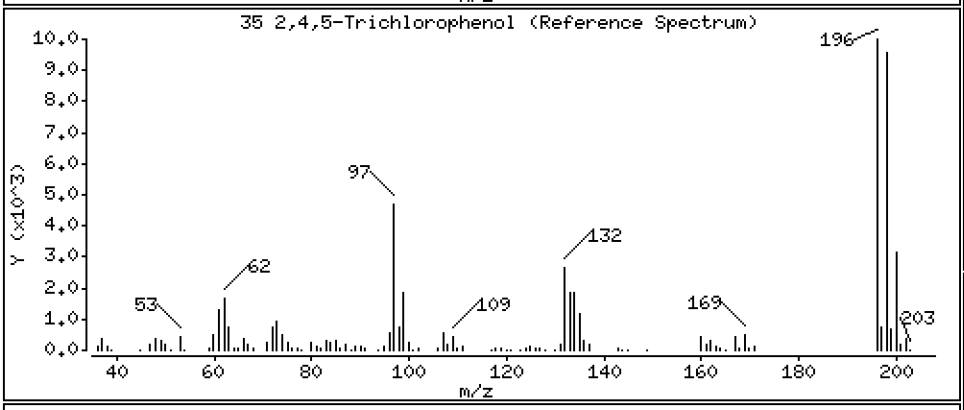
Column diameter: 0.25

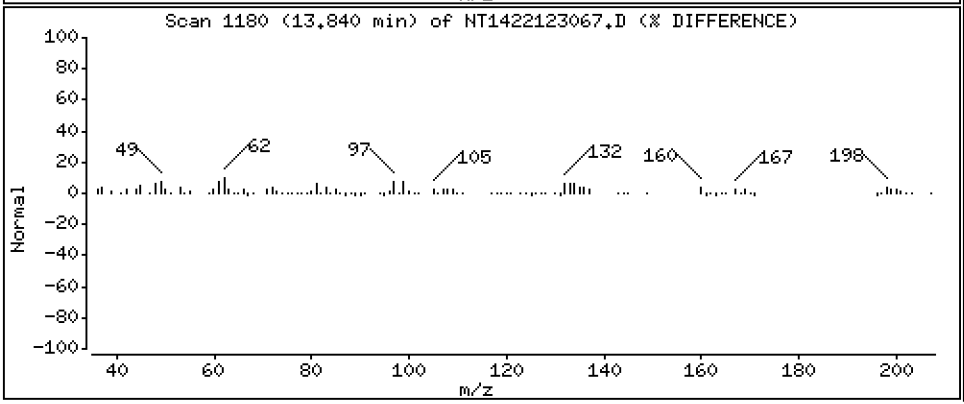
35 2,4,5-Trichlorophenol

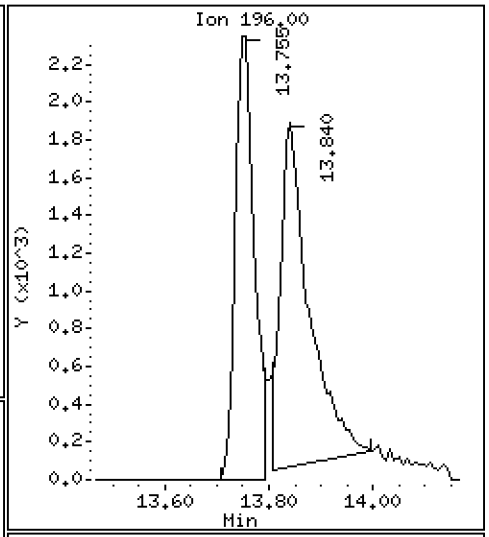
Concentration: 0.3604 ug/mL

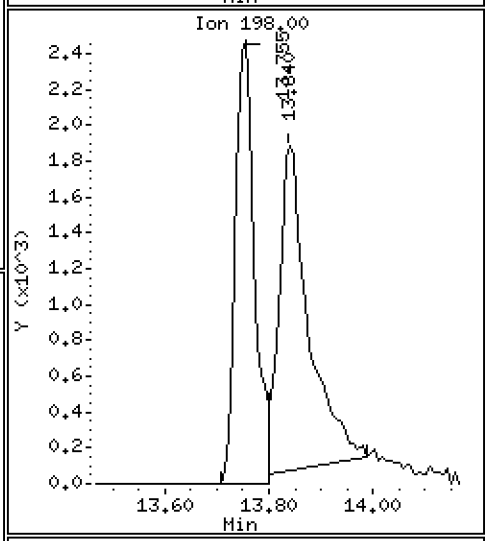


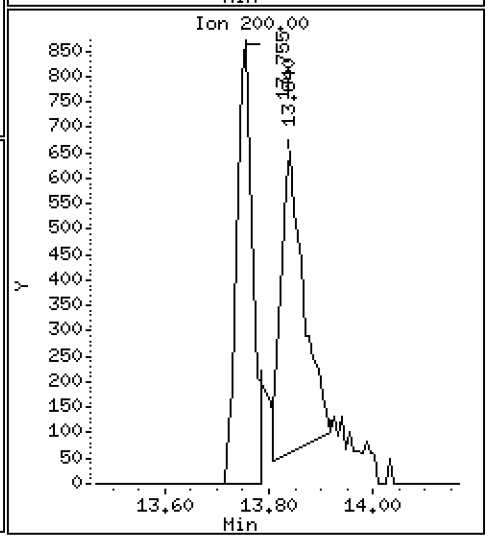












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

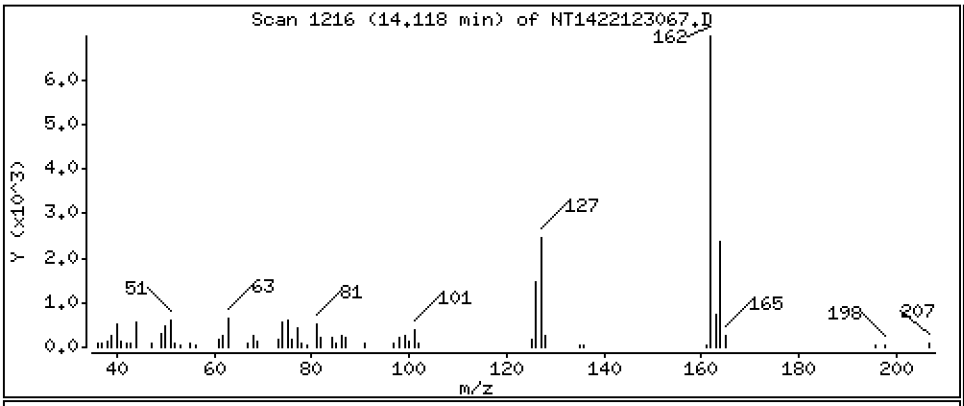
Operator: VTS

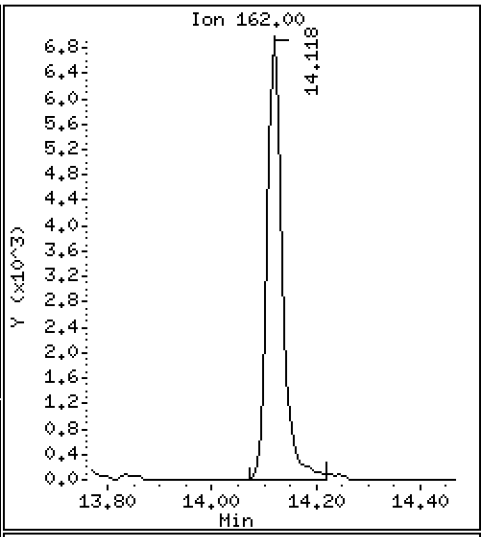
Column phase: ZB-5msi

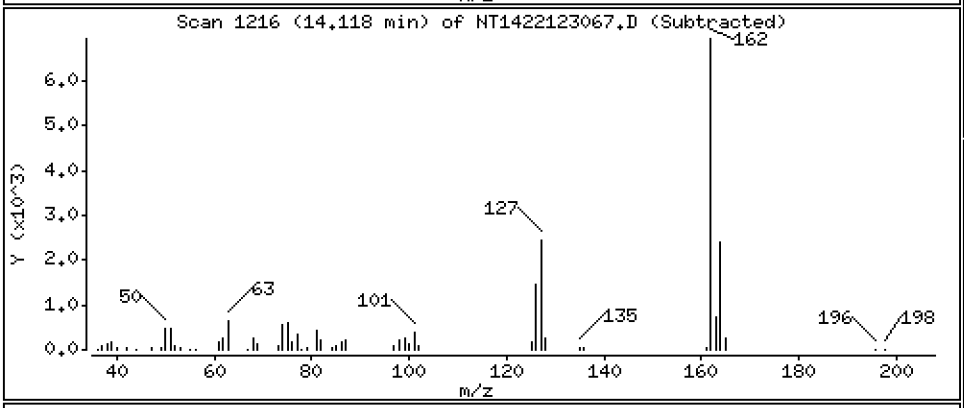
Column diameter: 0.25

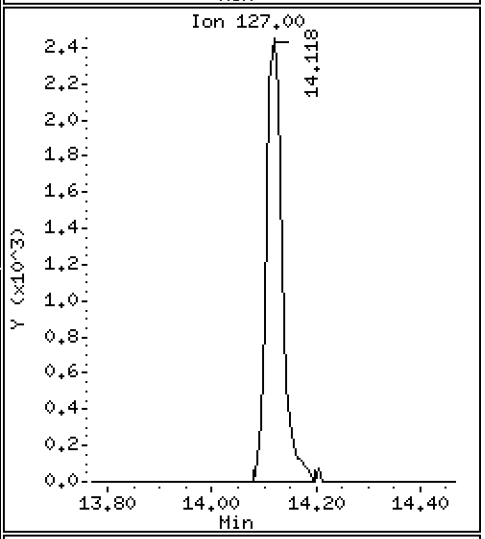
37 2-Chloronaphthalene

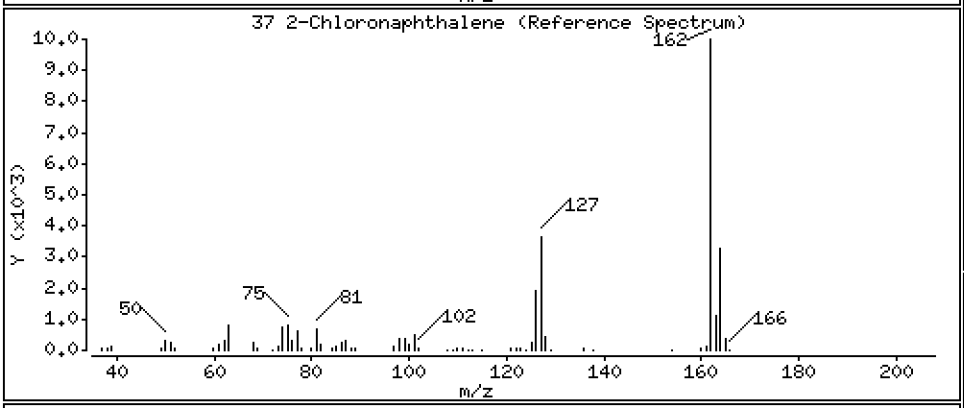
Concentration: 0.2346 ug/mL

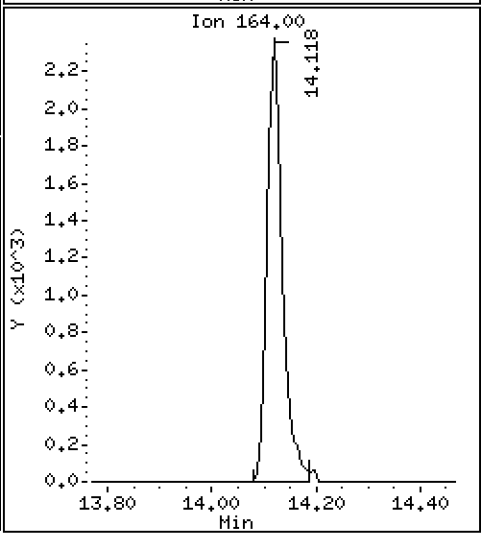


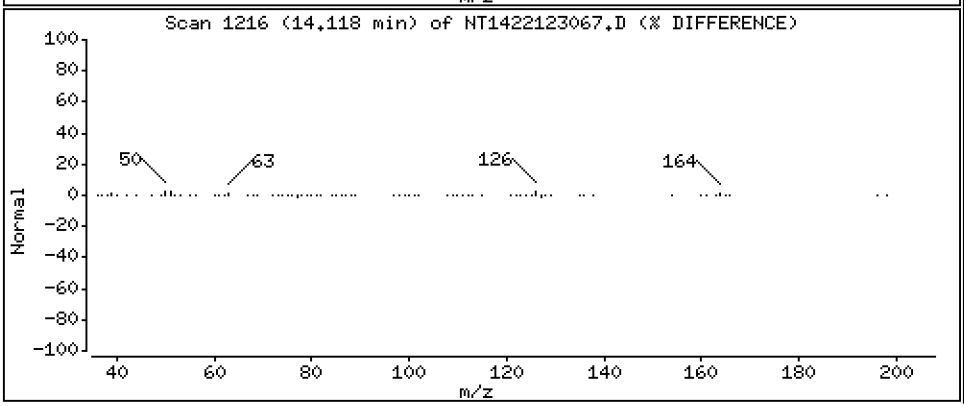












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

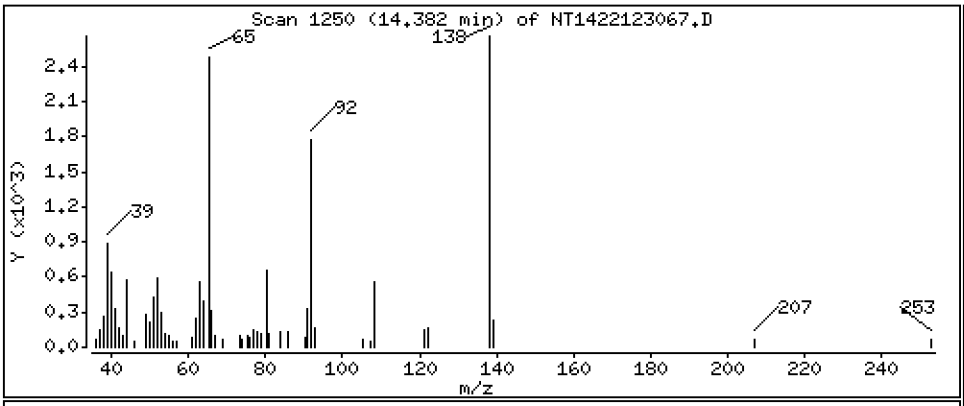
Operator: VTS

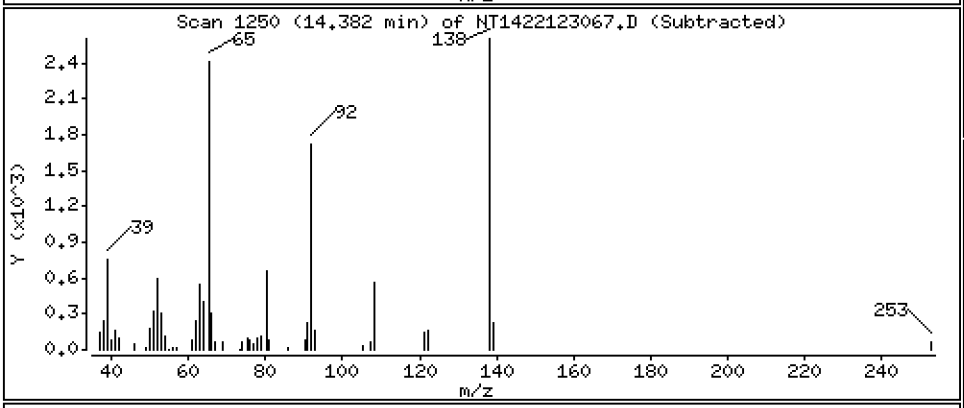
Column phase: ZB-5msi

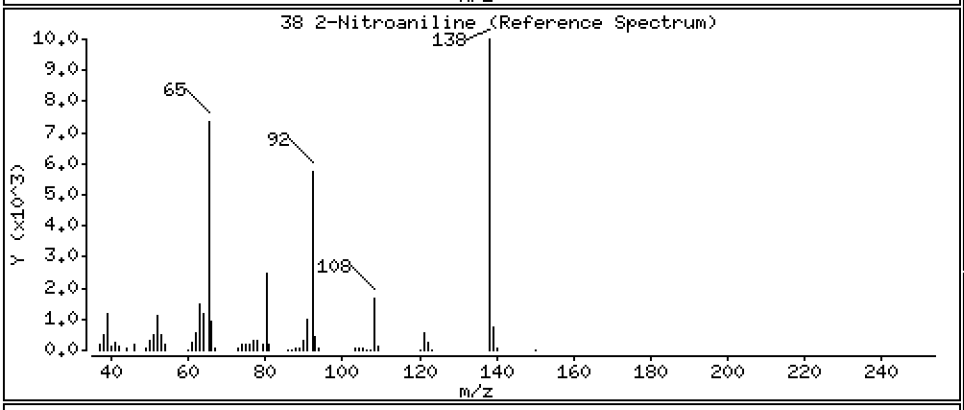
Column diameter: 0.25

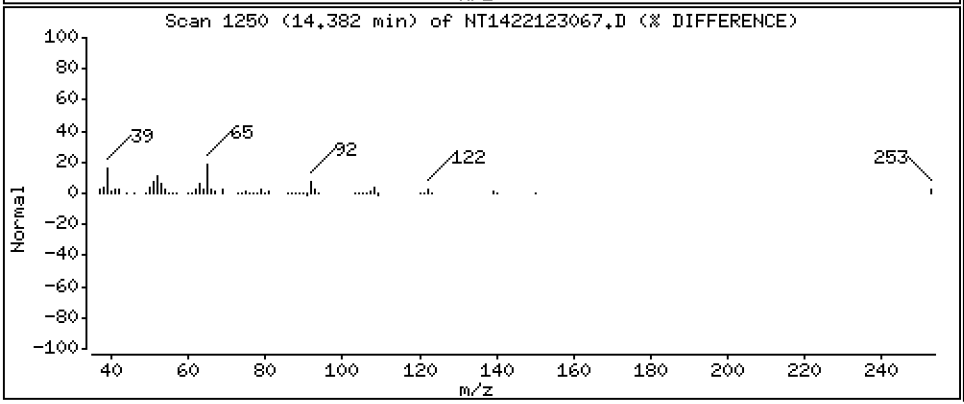
38 2-Nitroaniline

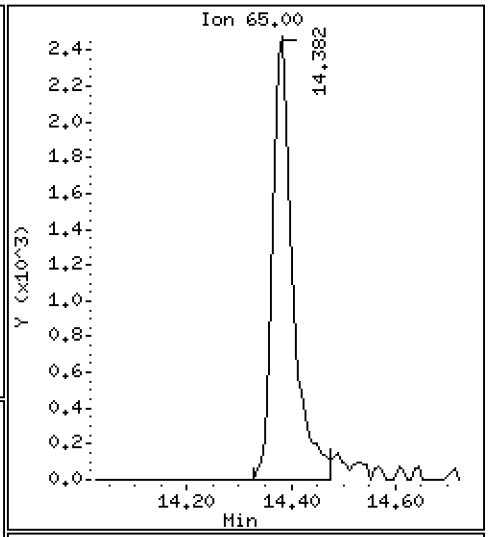
Concentration: 0.4296 ug/mL

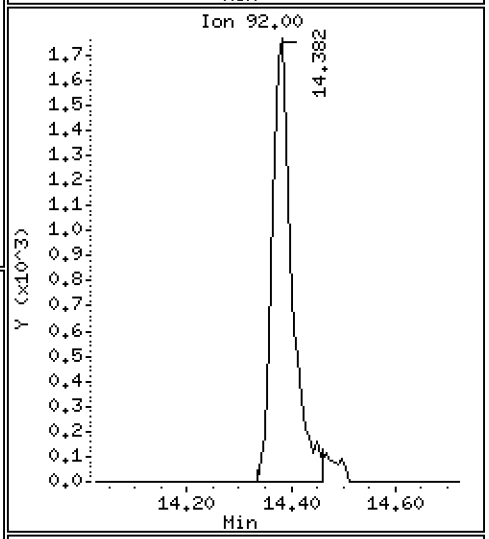


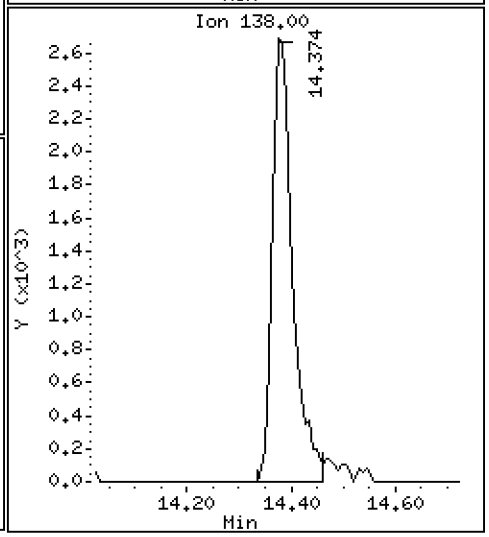












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

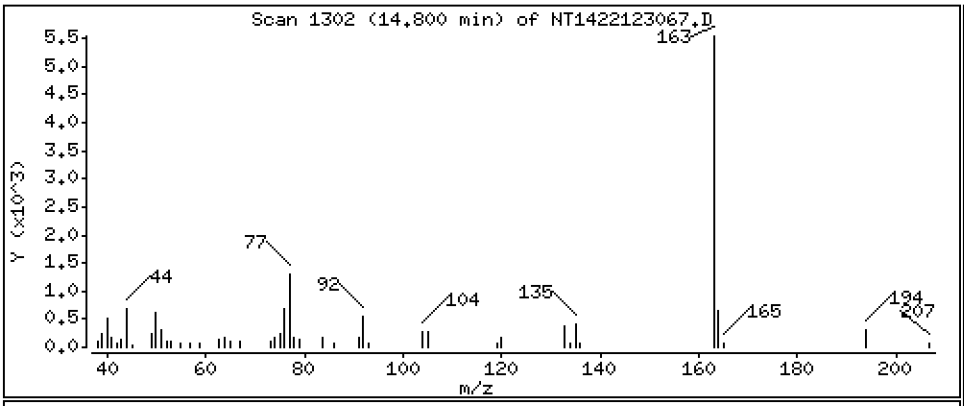
Operator: VTS

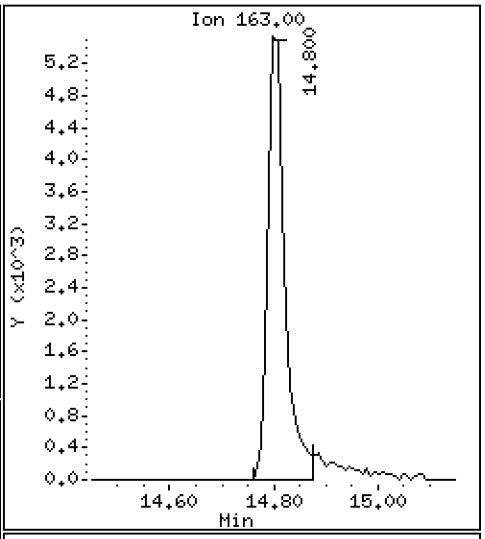
Column phase: ZB-5msi

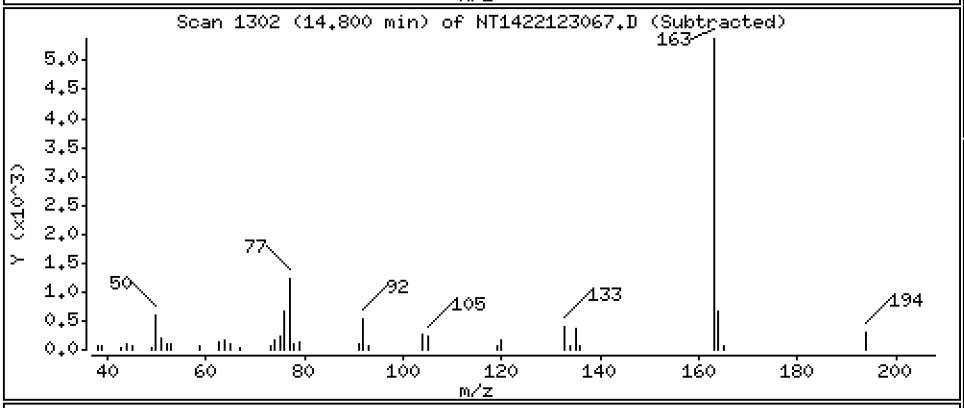
Column diameter: 0.25

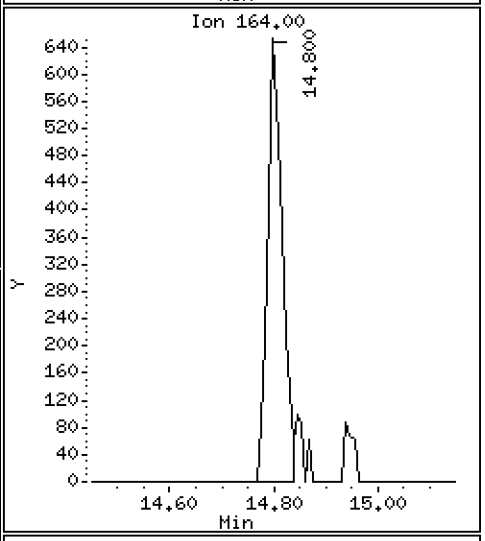
39 Dimethylphthalate

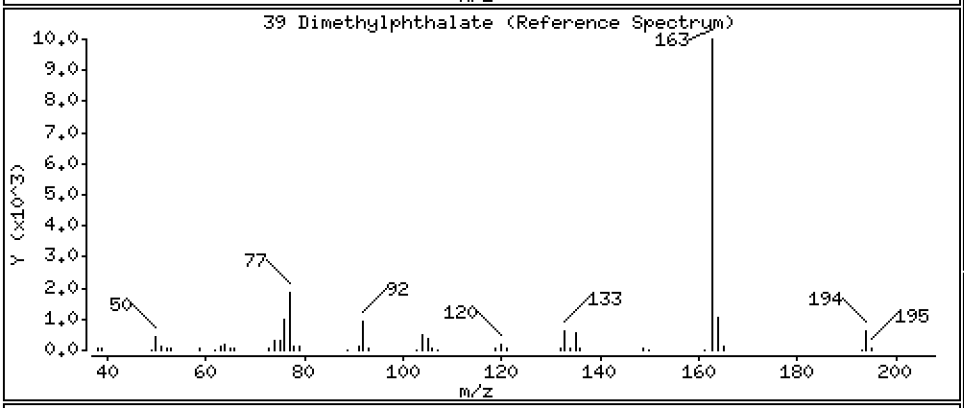
Concentration: 0.2138 ug/mL

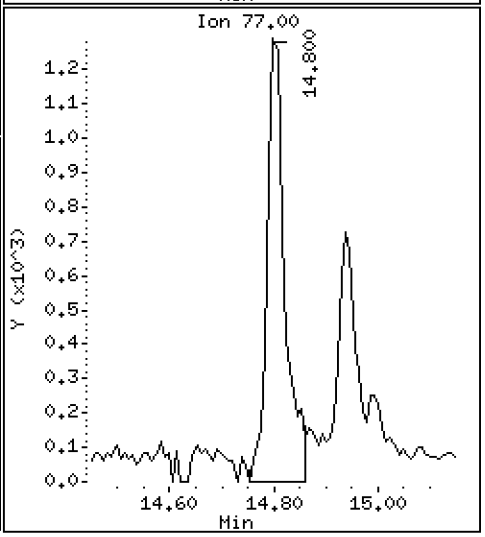


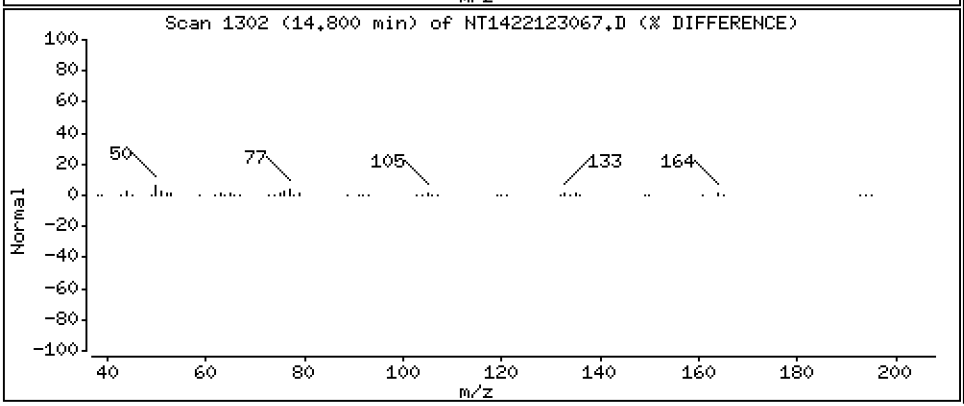












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

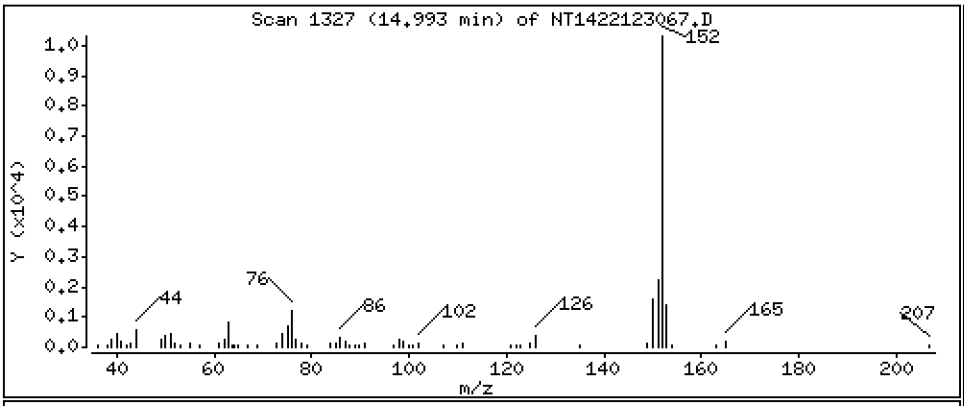
Operator: VTS

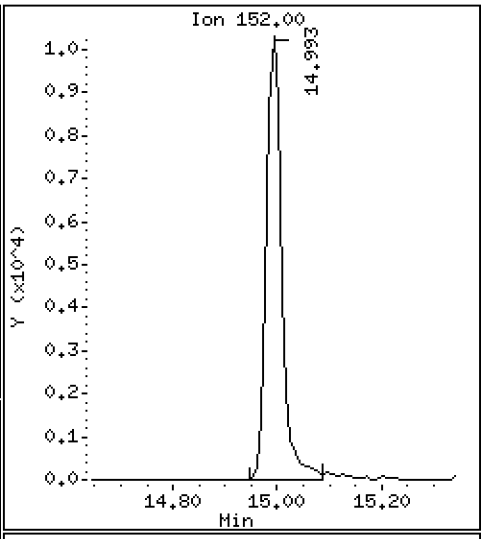
Column phase: ZB-5msi

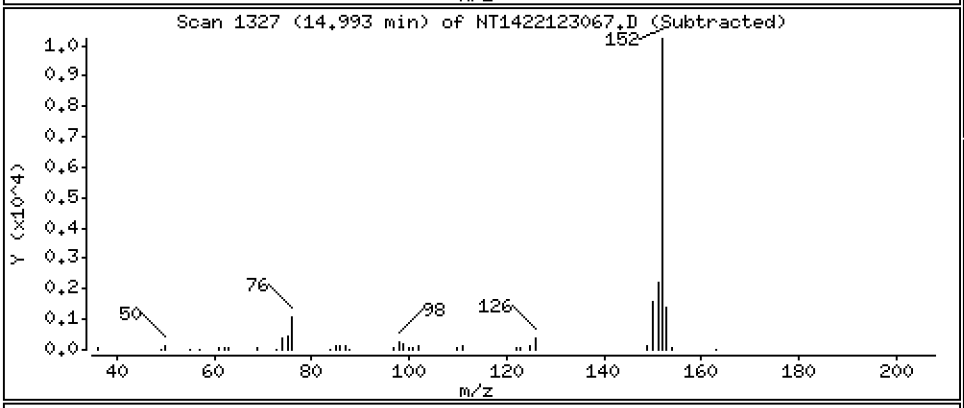
Column diameter: 0.25

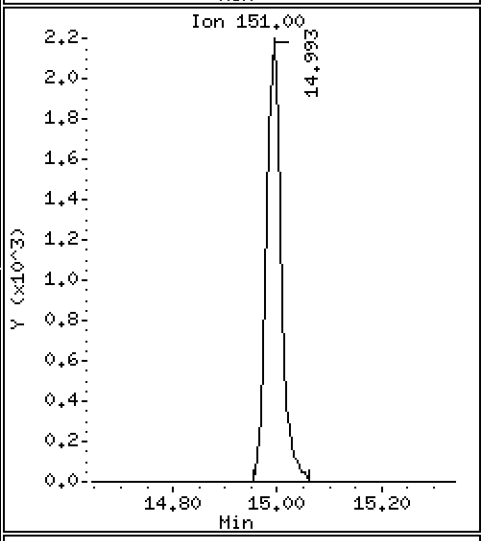
40 Acenaphthylene

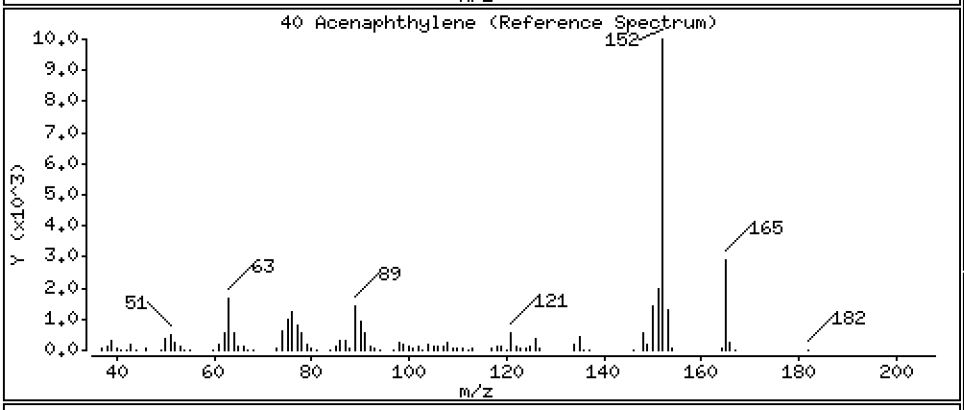
Concentration: 0.2291 ug/mL

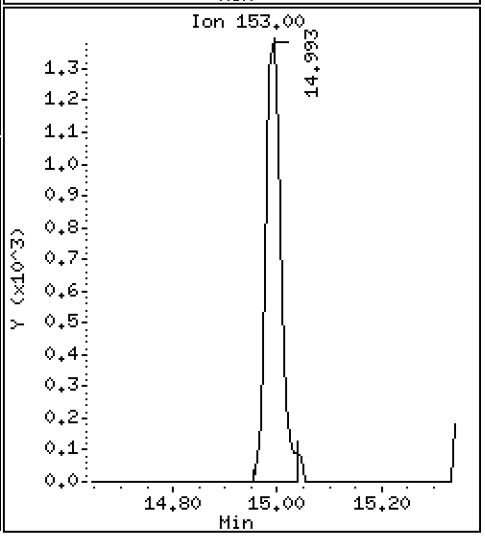


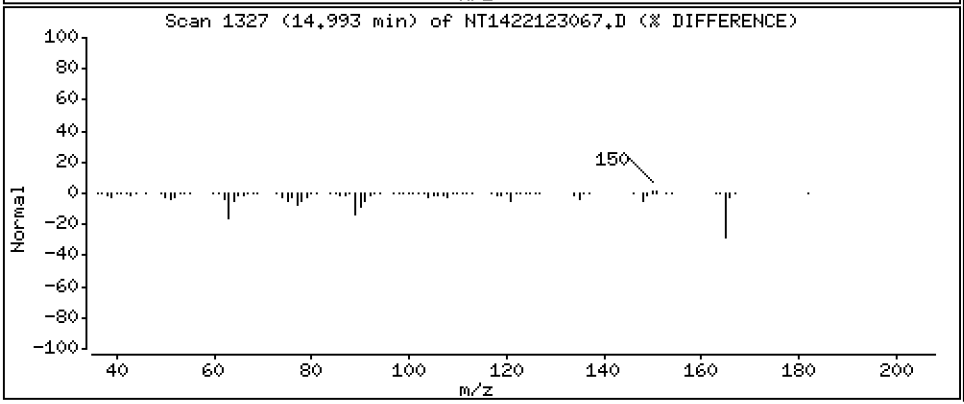












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

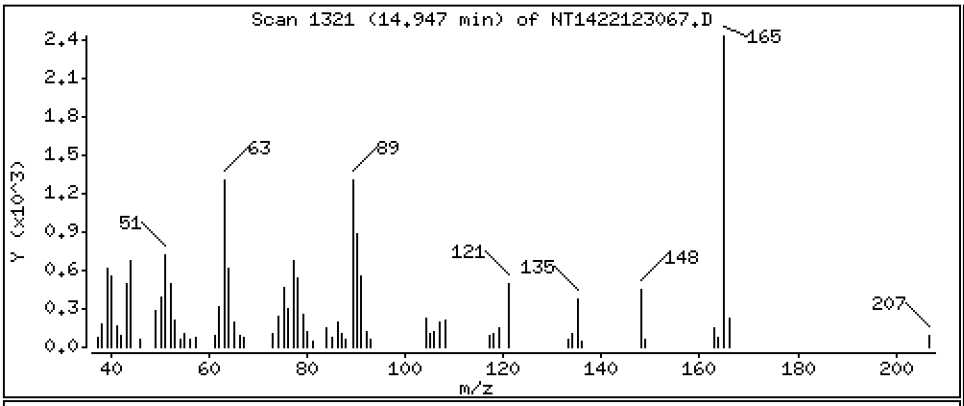
Operator: VTS

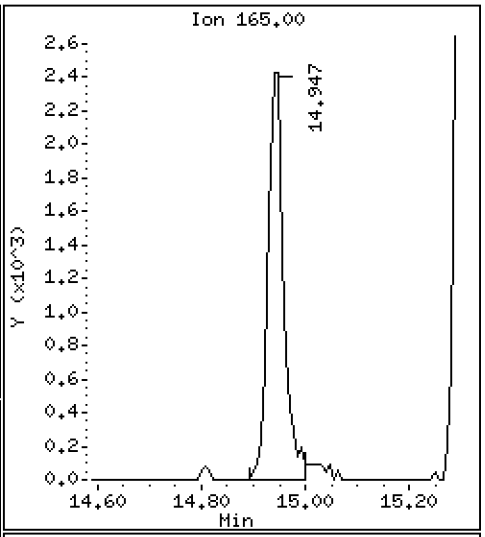
Column phase: ZB-5msi

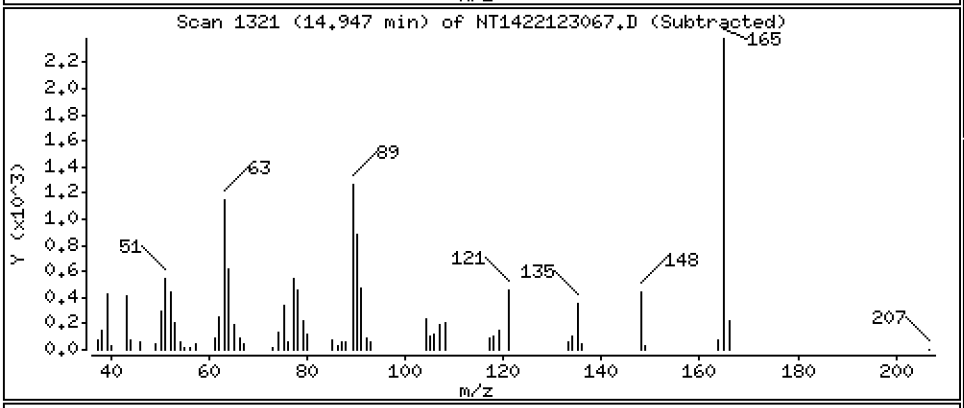
Column diameter: 0.25

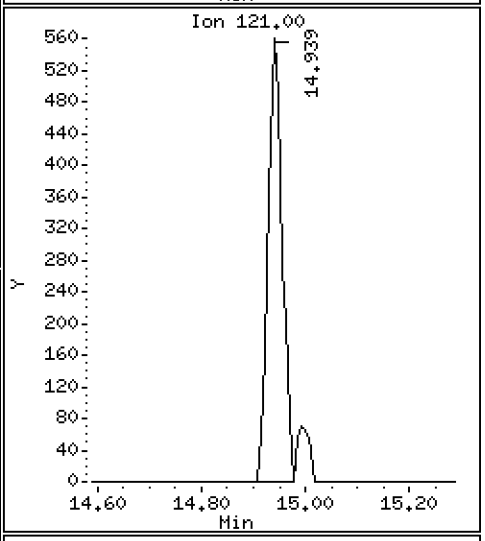
41 2,6-Dinitrotoluene

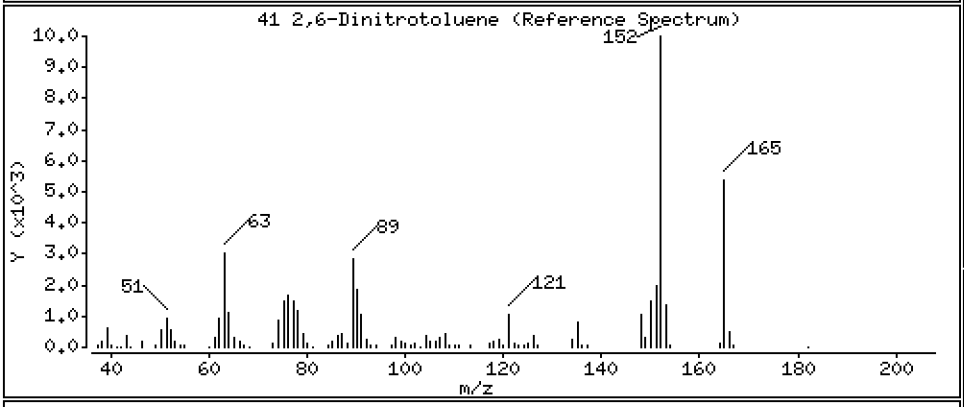
Concentration: 0.3820 ug/mL

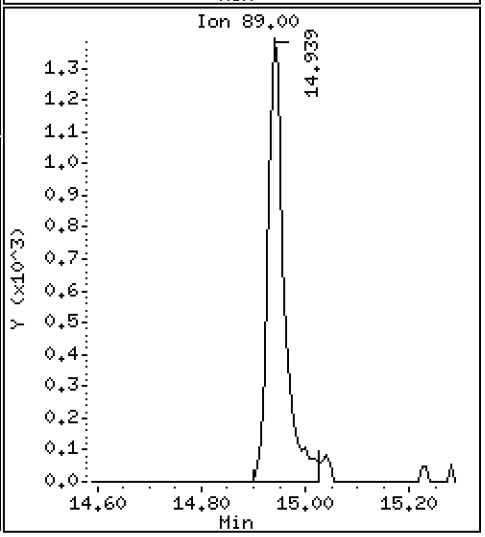


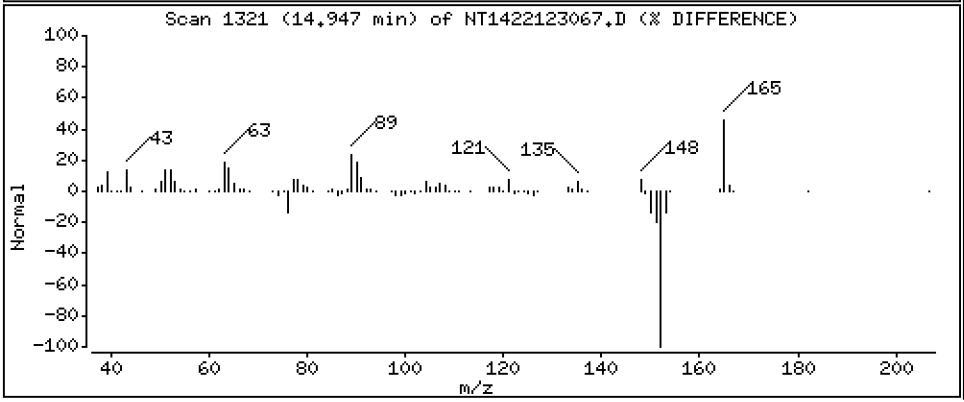












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

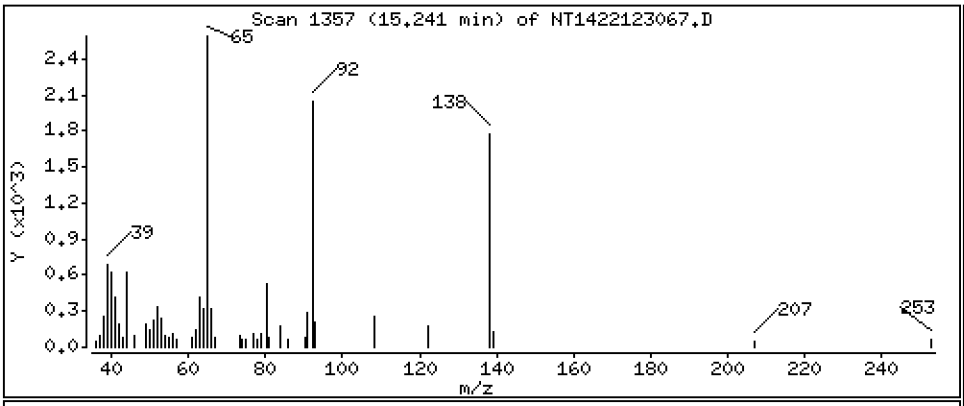
Operator: VTS

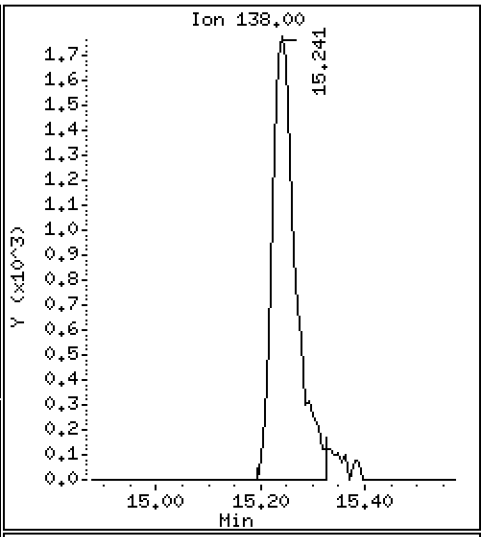
Column phase: ZB-5msi

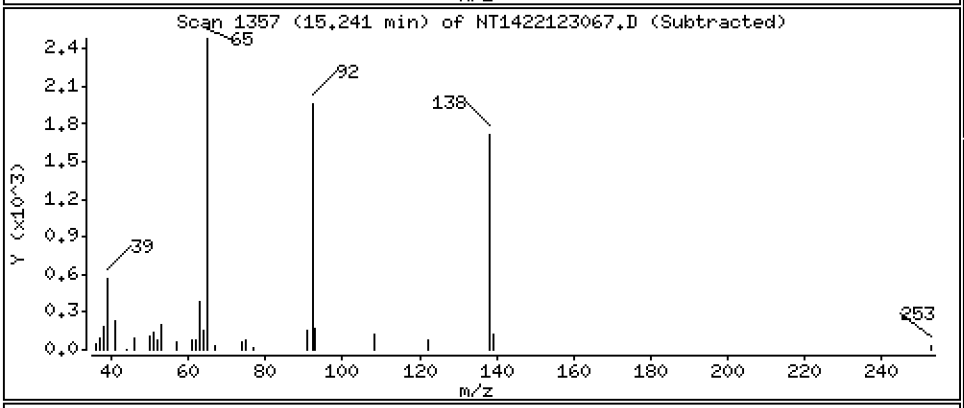
Column diameter: 0.25

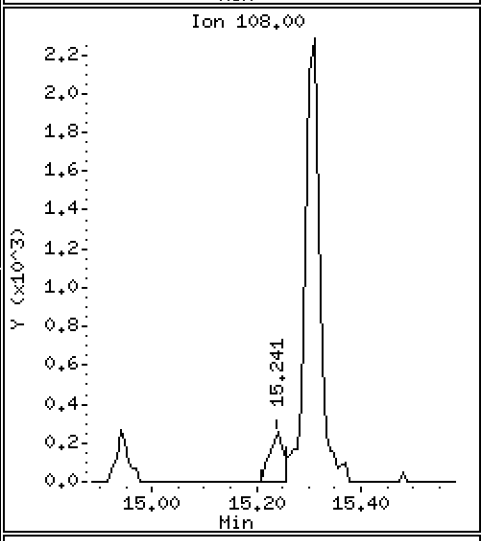
43 3-Nitroaniline

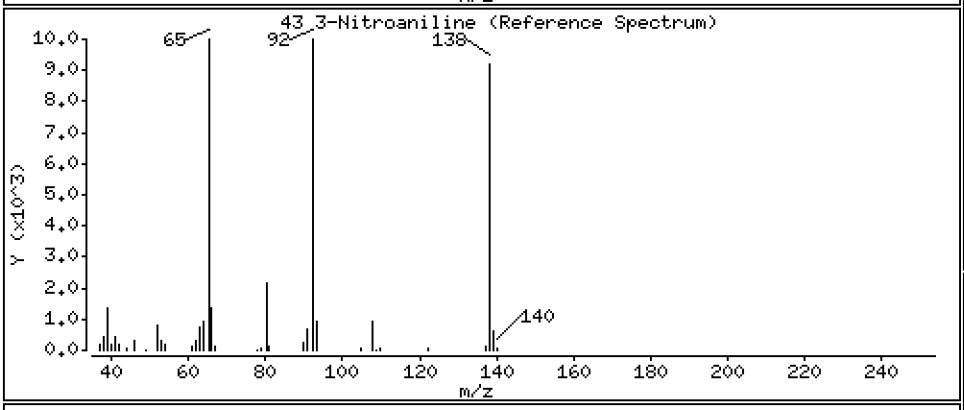
Concentration: 0.3563 ug/mL

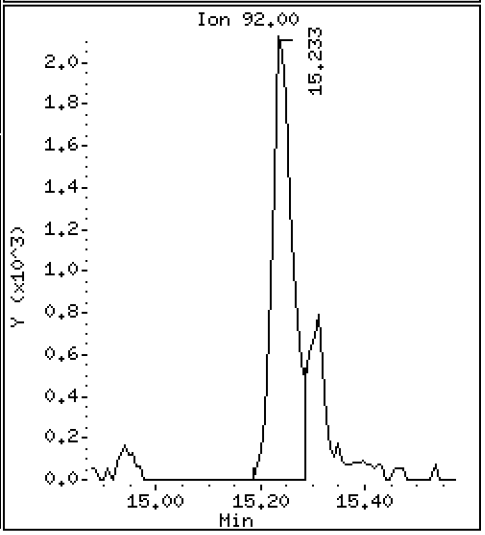


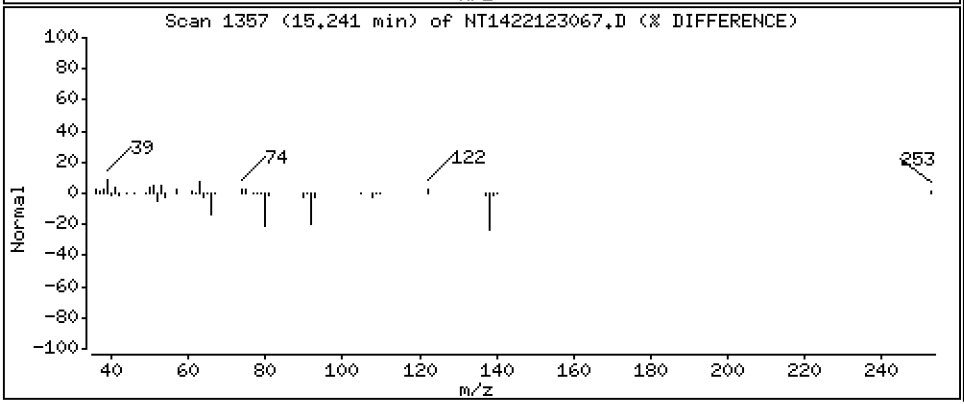












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

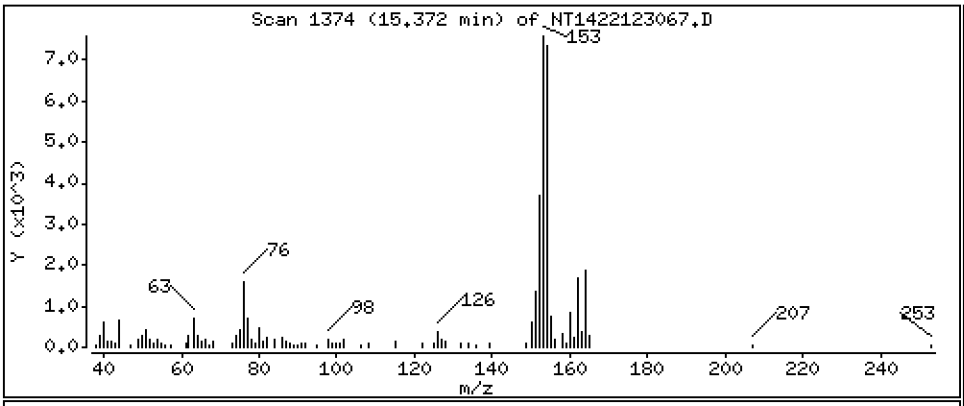
Operator: VTS

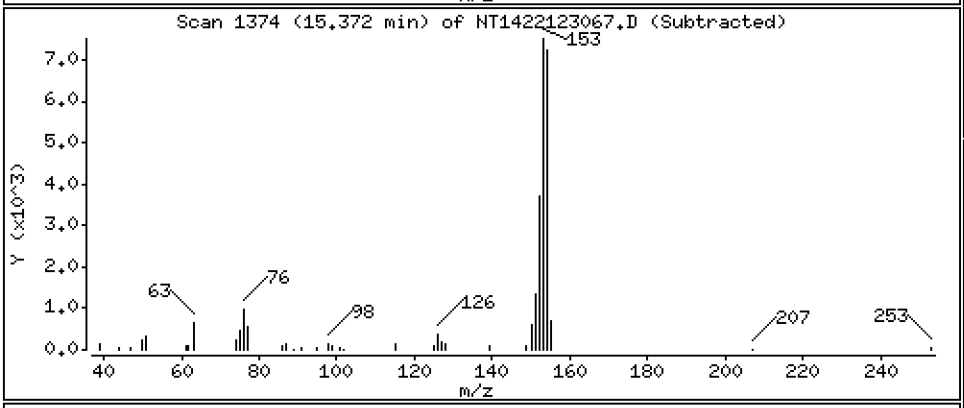
Column phase: ZB-5msi

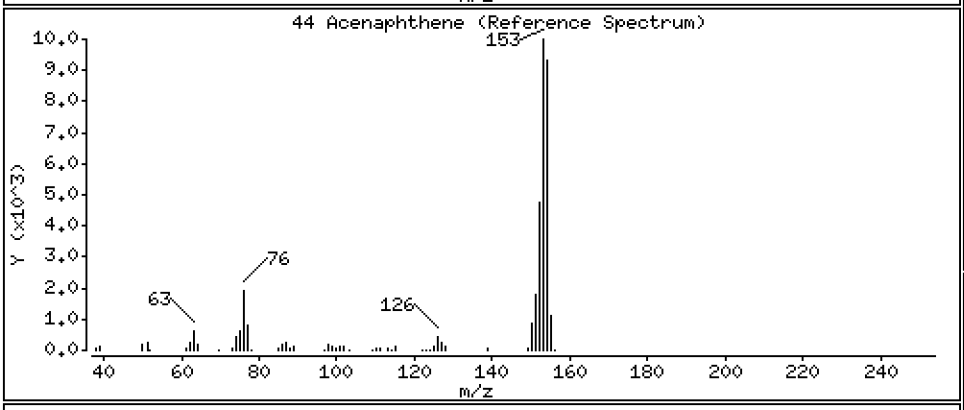
Column diameter: 0.25

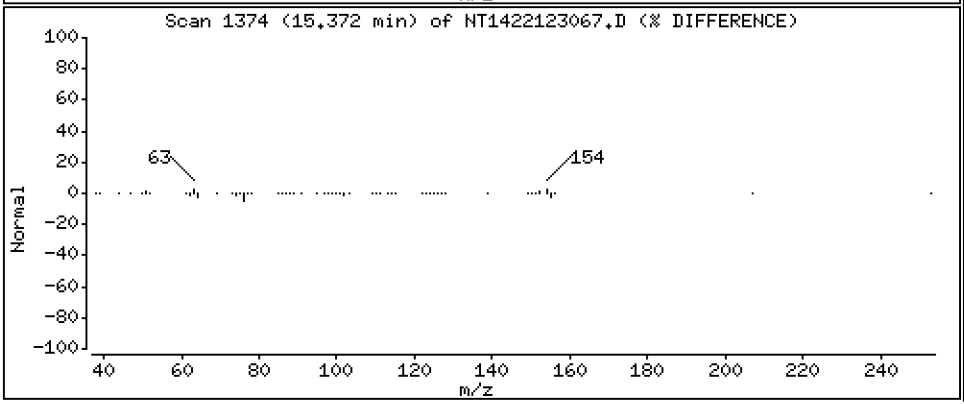
44 Acenaphthene

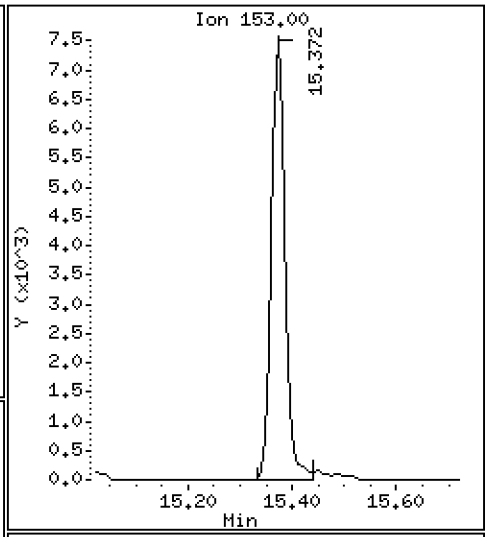
Concentration: 0.2358 ug/mL

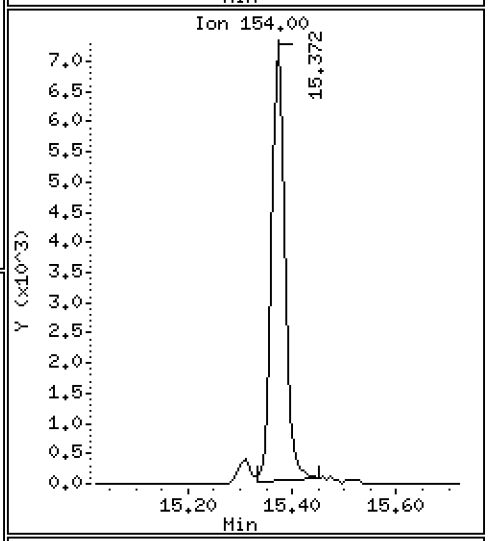


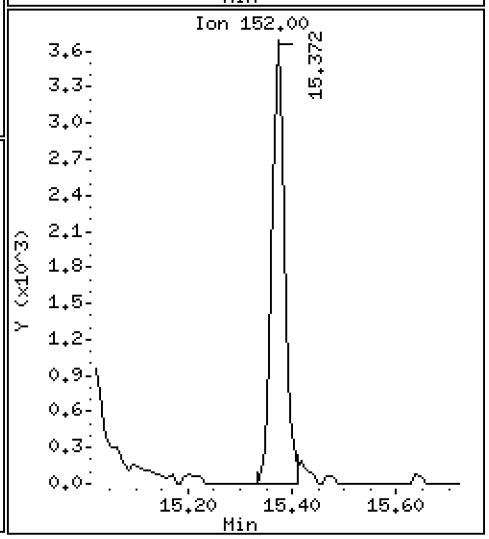












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

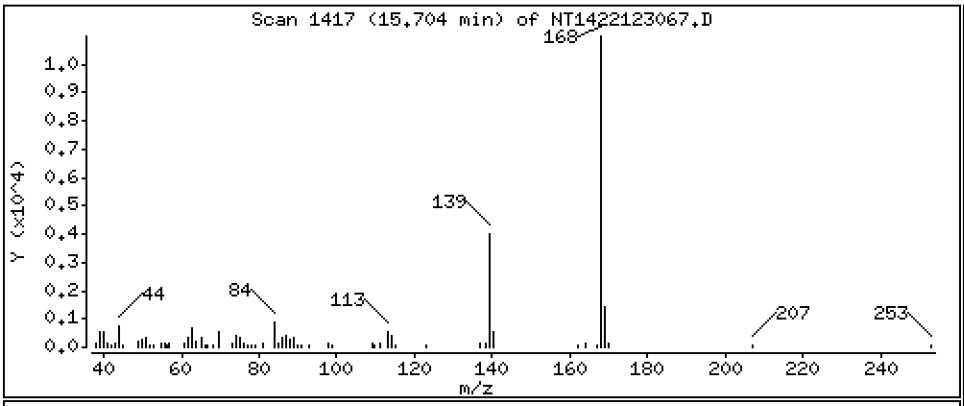
Operator: VTS

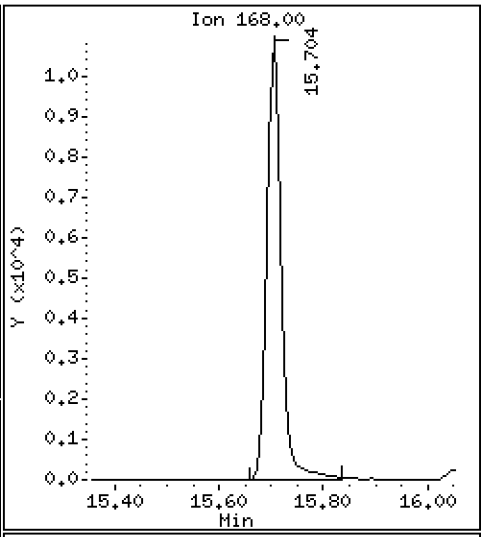
Column phase: ZB-5msi

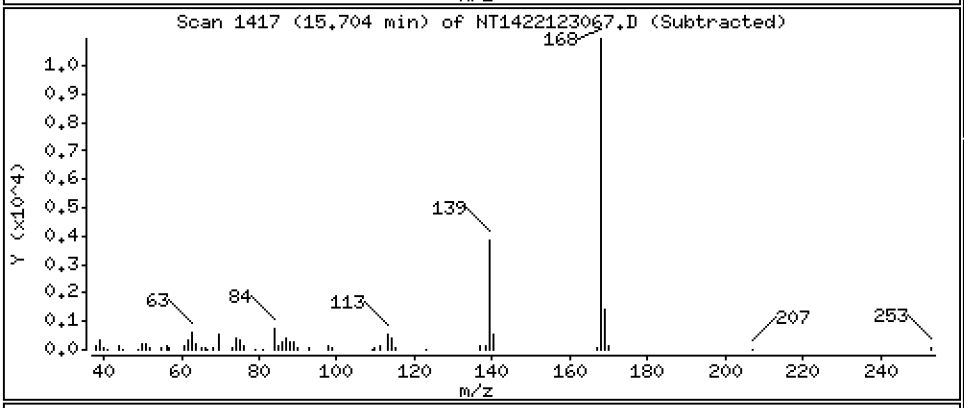
Column diameter: 0.25

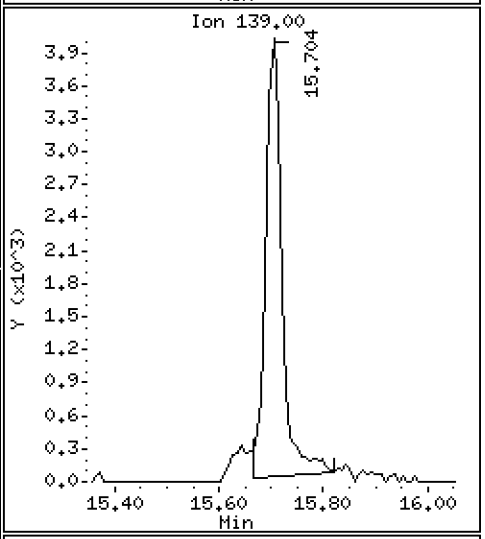
46 Dibenzofuran

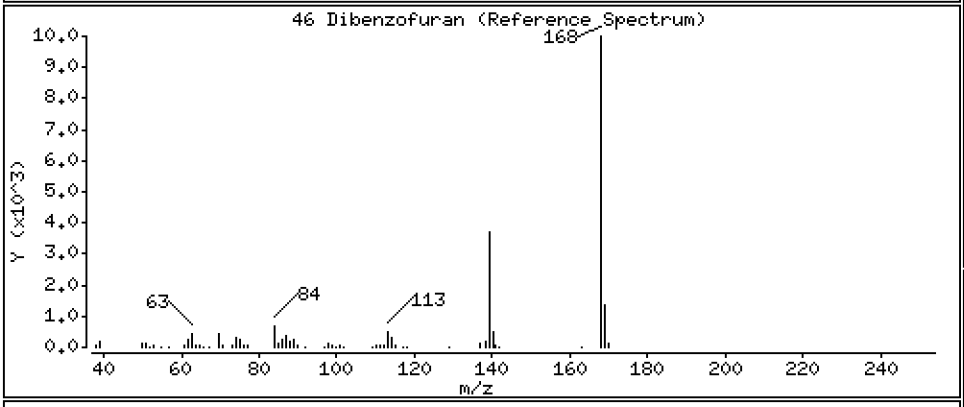
Concentration: 0.2405 ug/mL

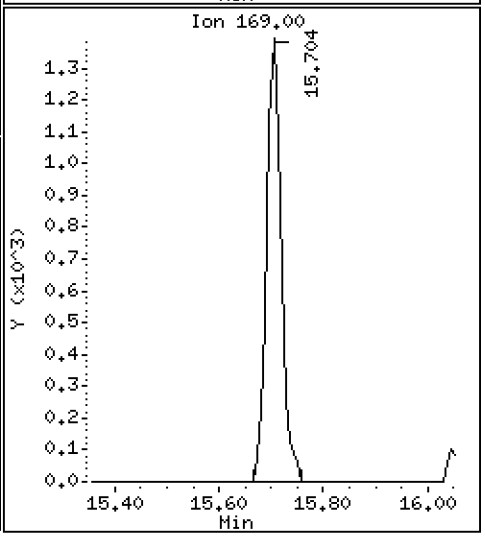


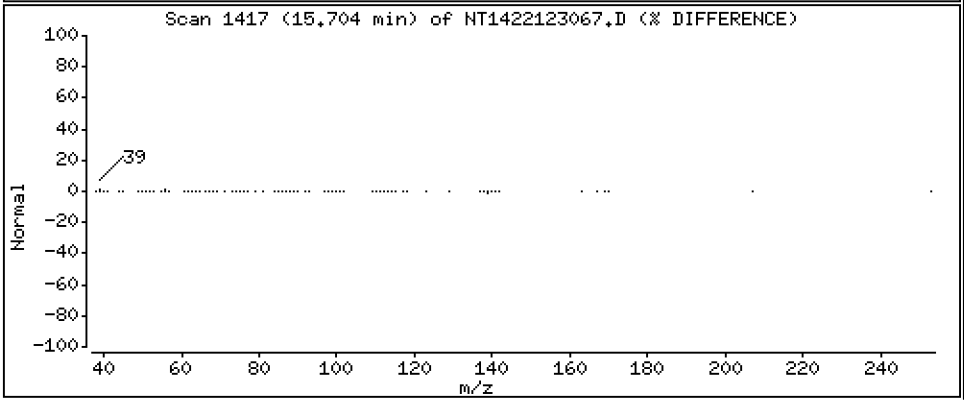












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

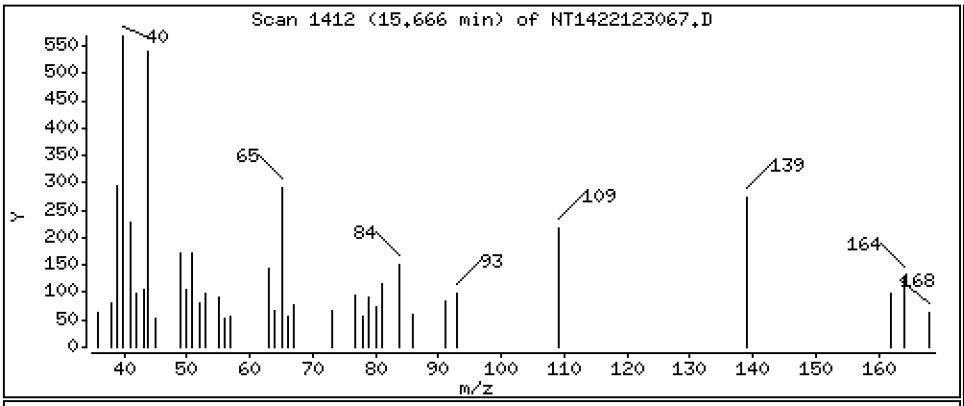
Operator: VTS

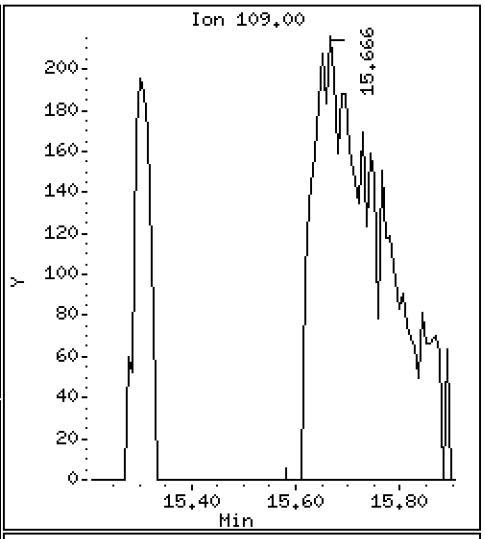
Column phase: ZB-5msi

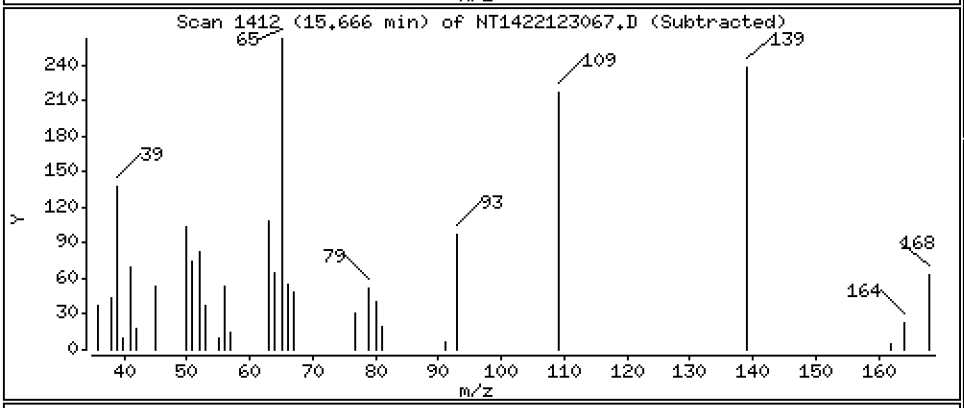
Column diameter: 0.25

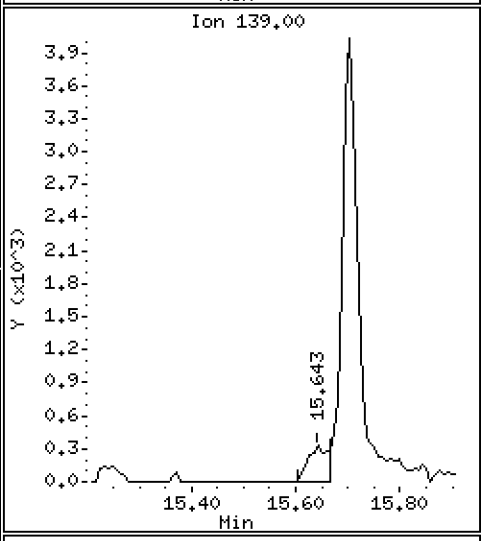
47 4-Nitrophenol

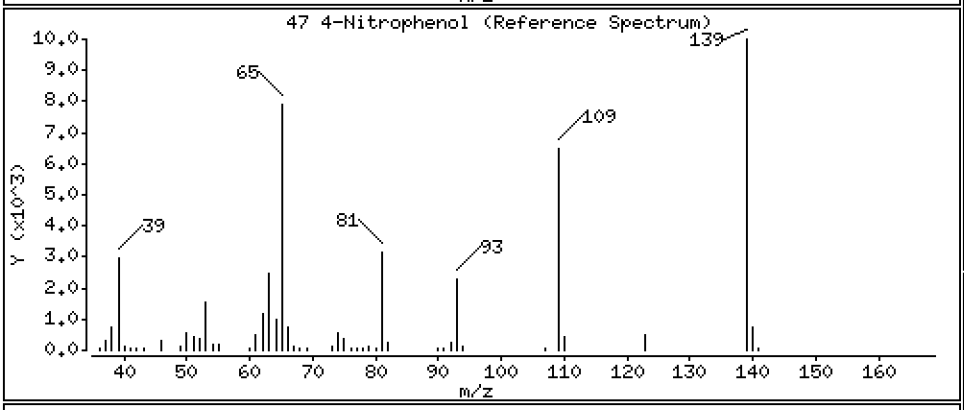
Concentration: 0.2680 ug/mL

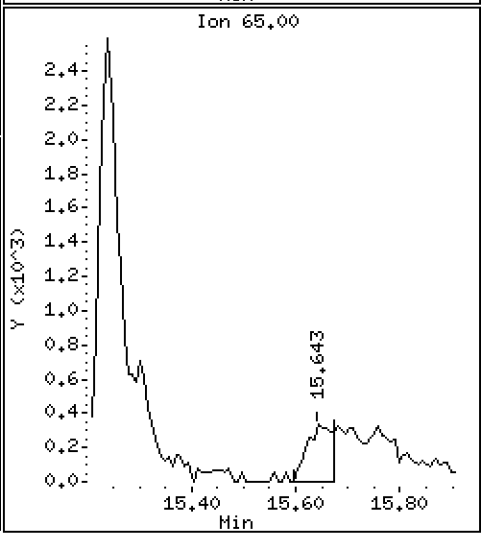


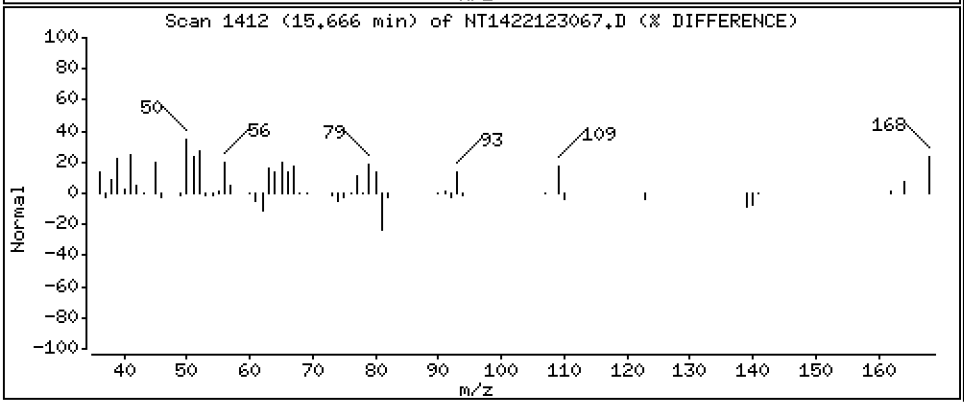












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

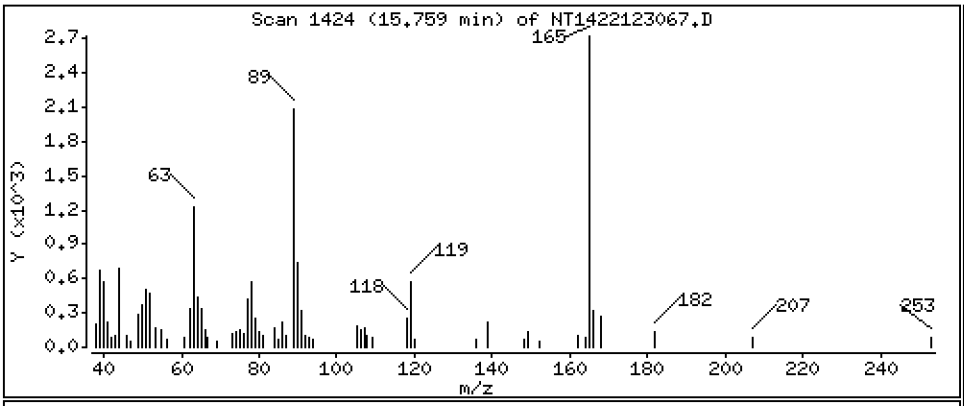
Operator: VTS

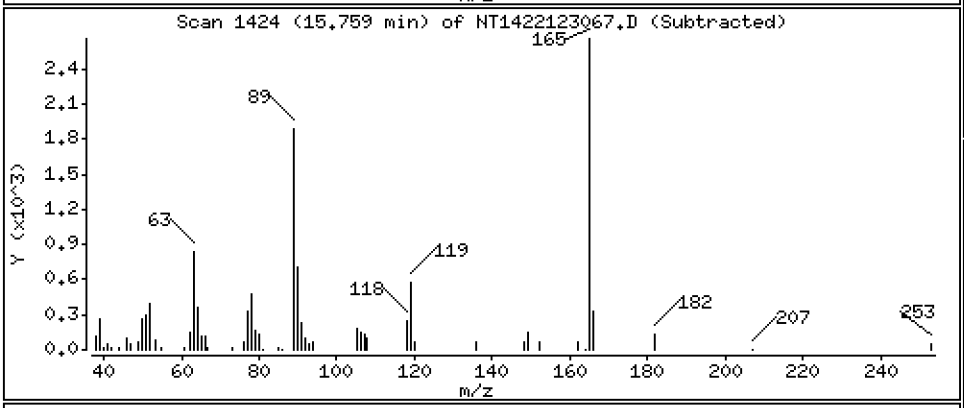
Column phase: ZB-5msi

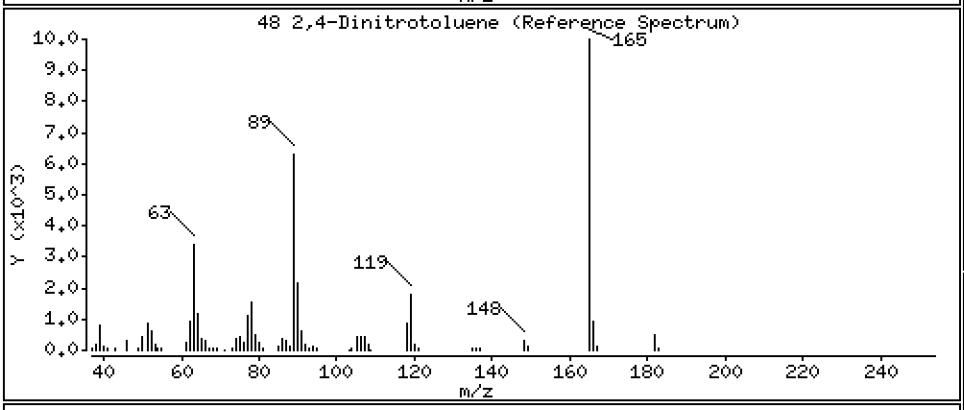
Column diameter: 0.25

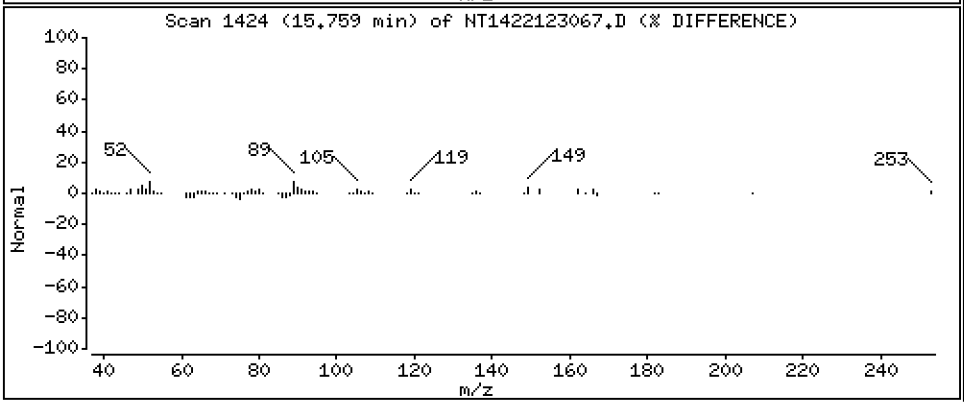
48 2,4-Dinitrotoluene

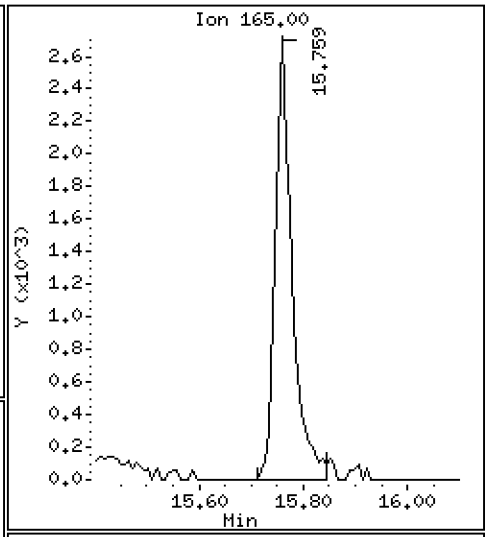
Concentration: 0.3389 ug/mL

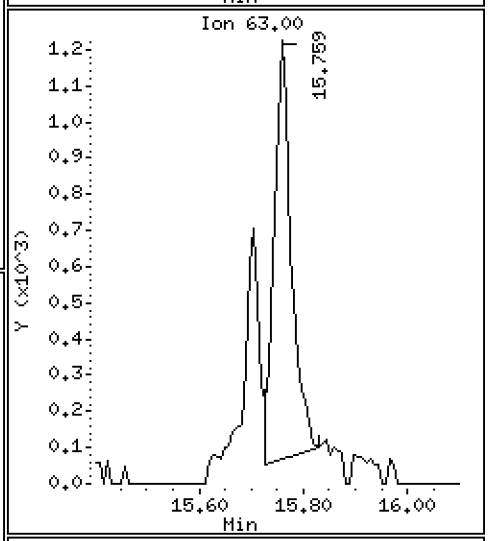


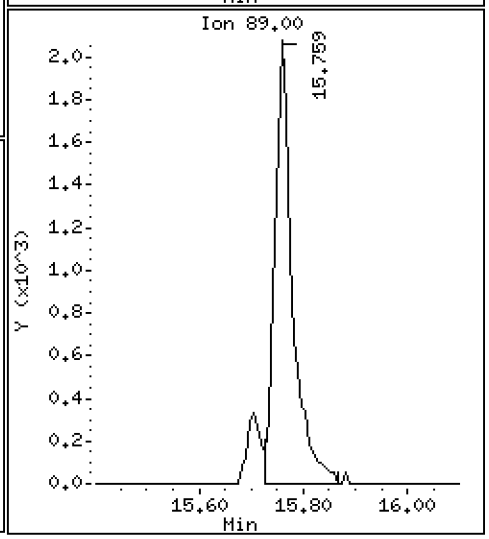












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

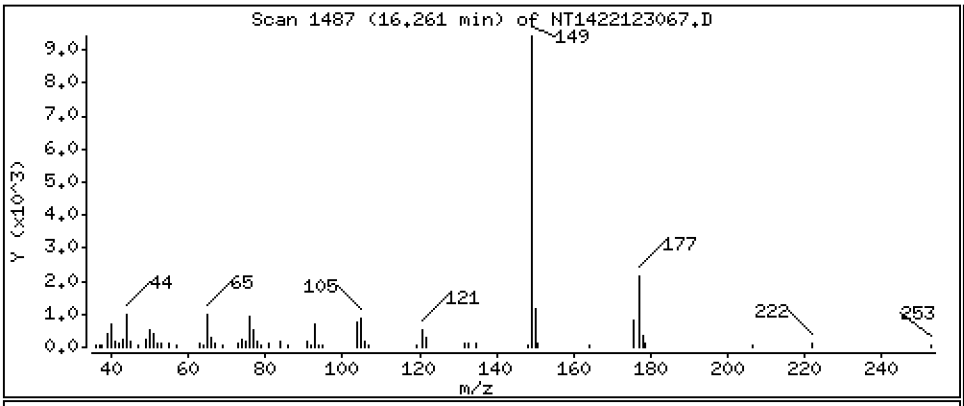
Operator: VTS

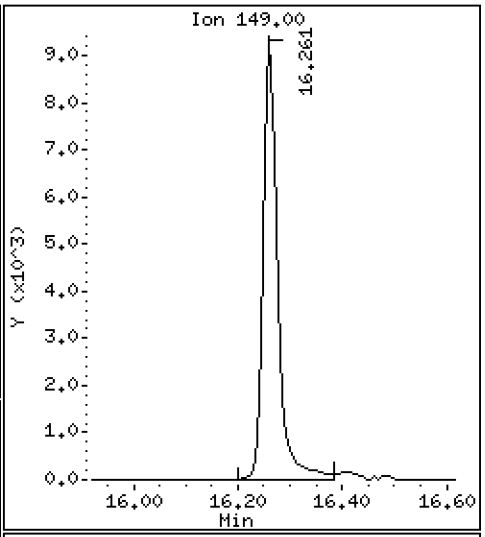
Column phase: ZB-5msi

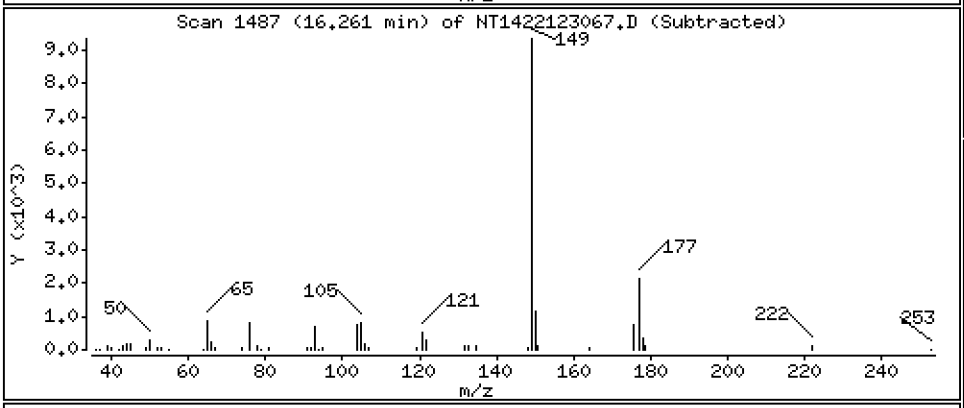
Column diameter: 0.25

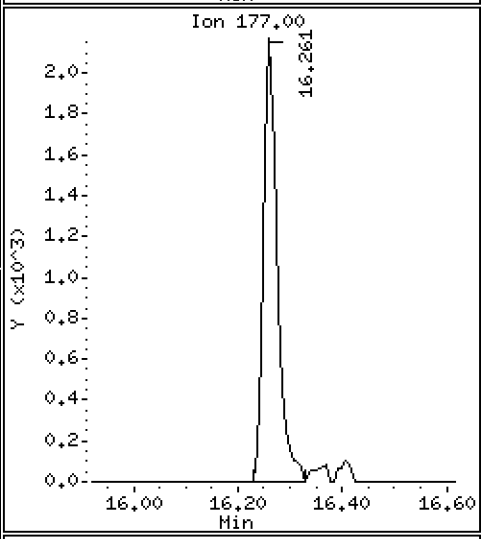
50 Diethylphthalate

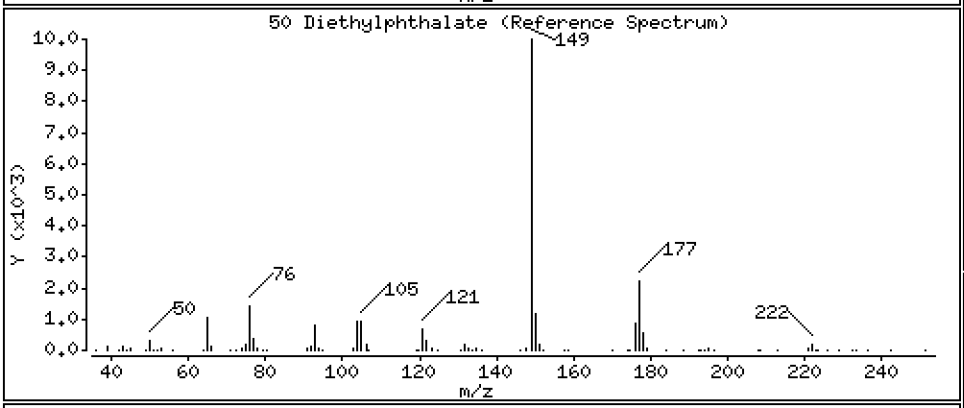
Concentration: 0.2595 ug/mL

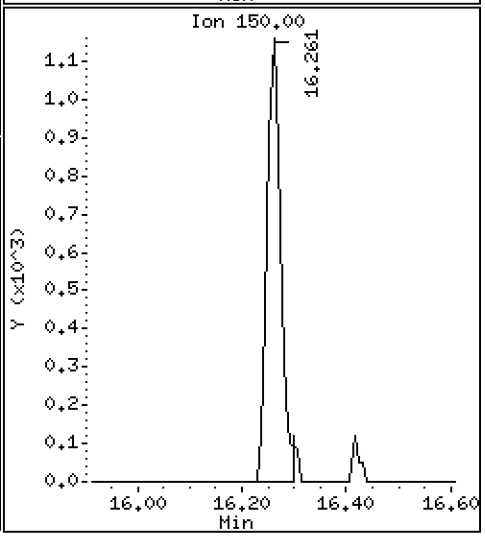


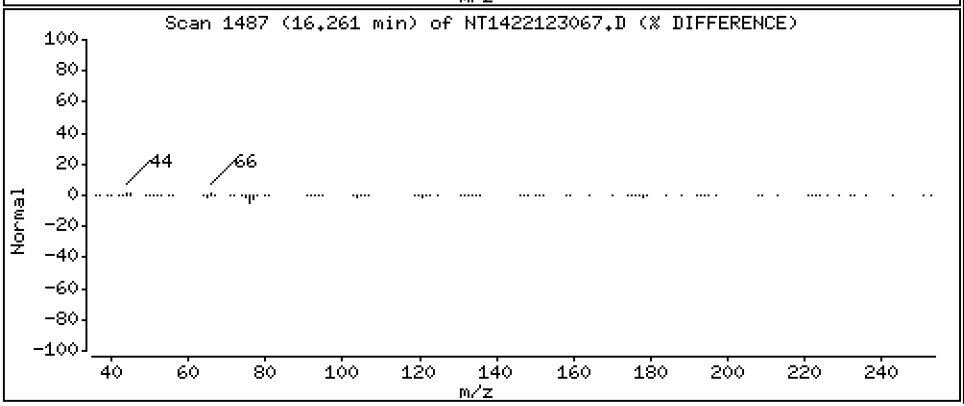












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

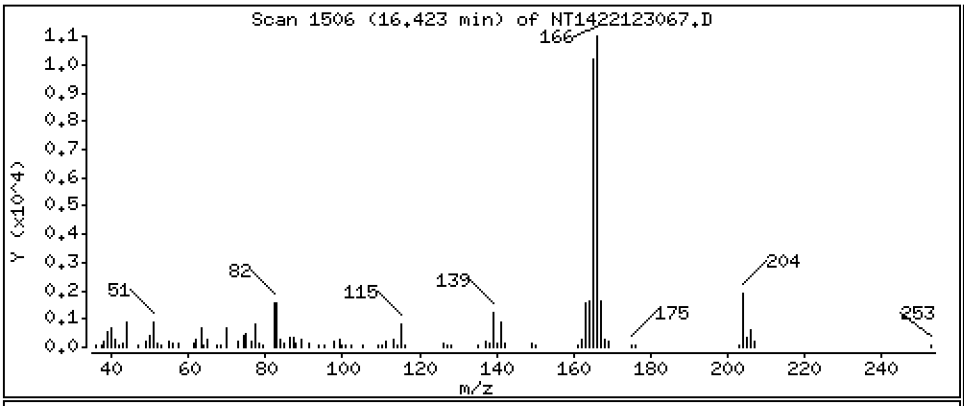
Operator: VTS

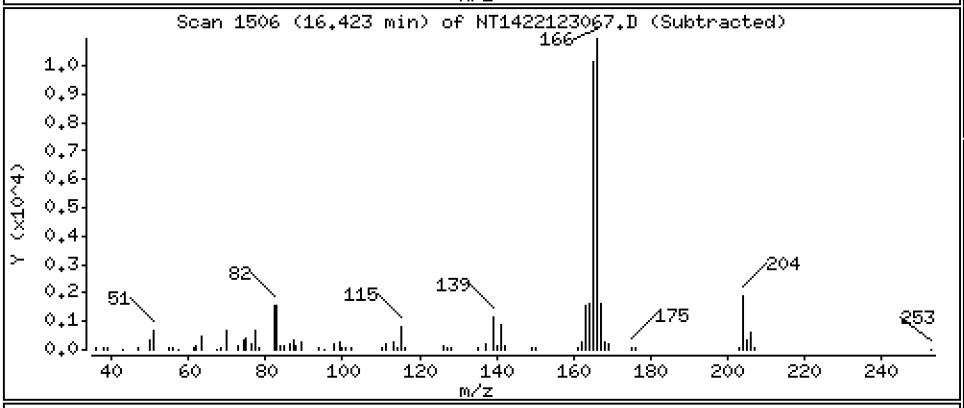
Column phase: ZB-5msi

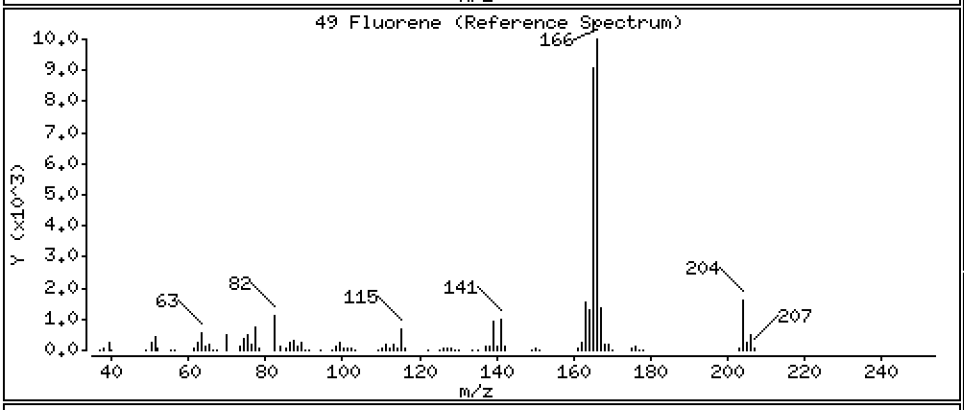
Column diameter: 0.25

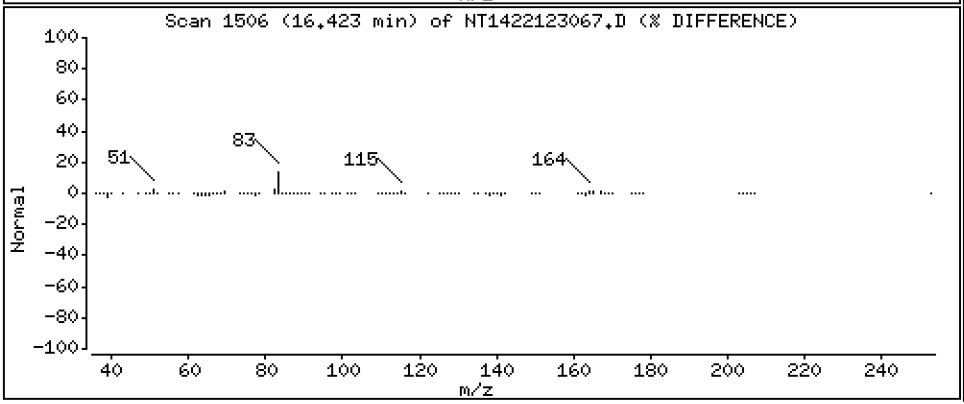
49 Fluorene

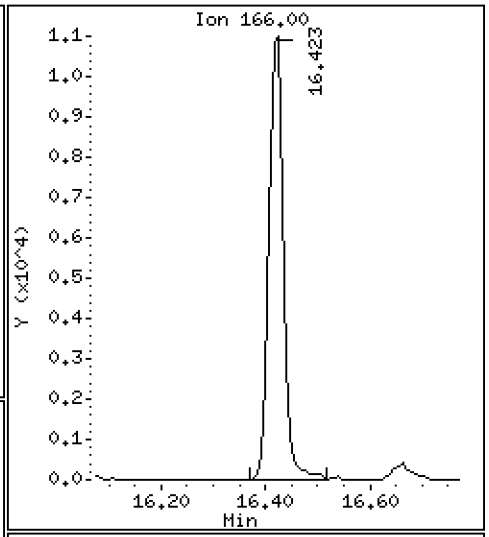
Concentration: 0.2334 ug/mL

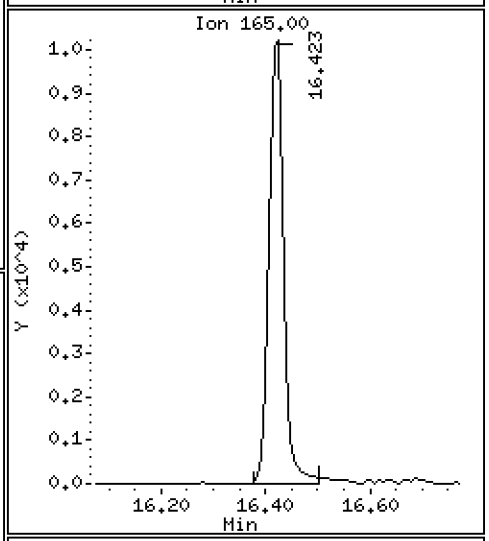


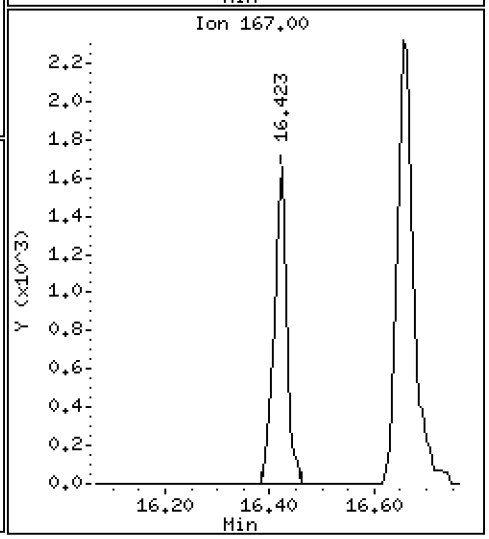












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

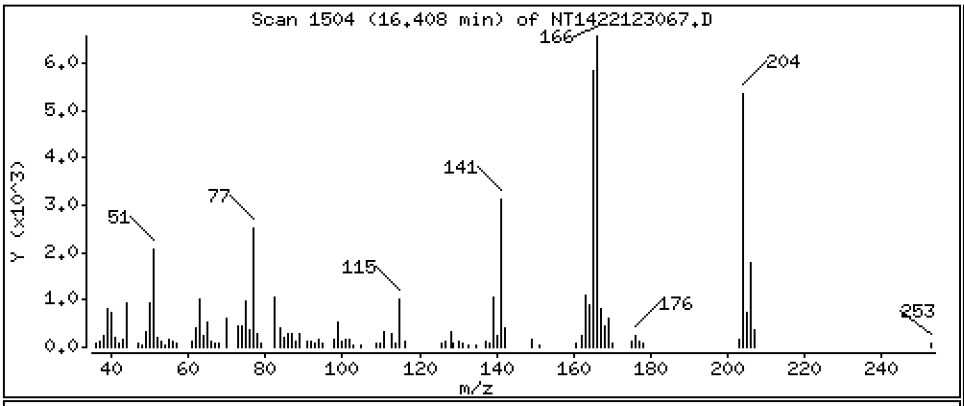
Operator: VTS

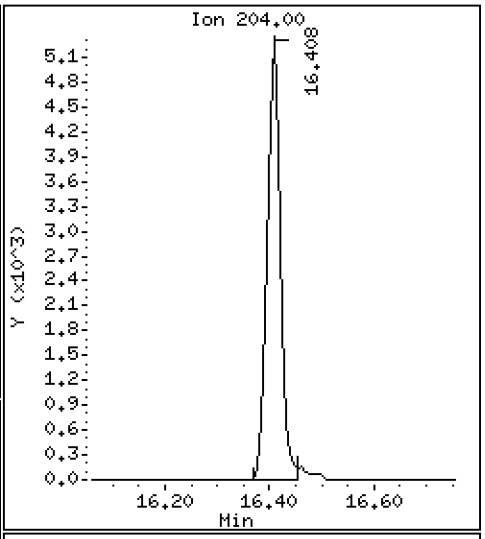
Column phase: ZB-5msi

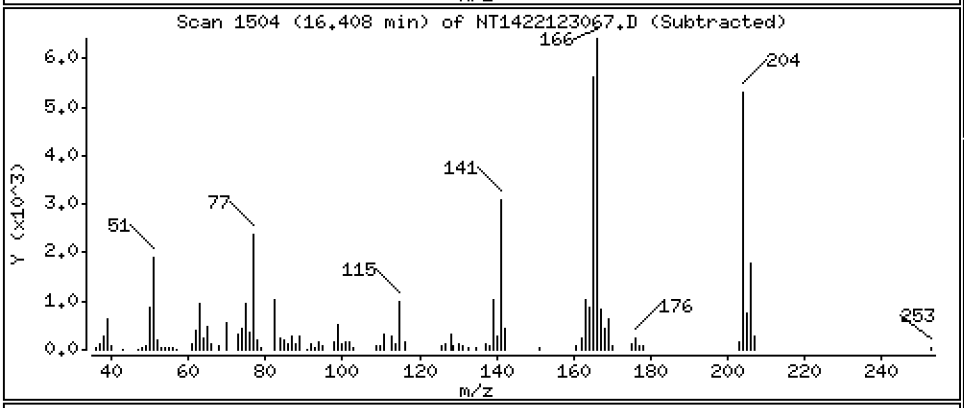
Column diameter: 0.25

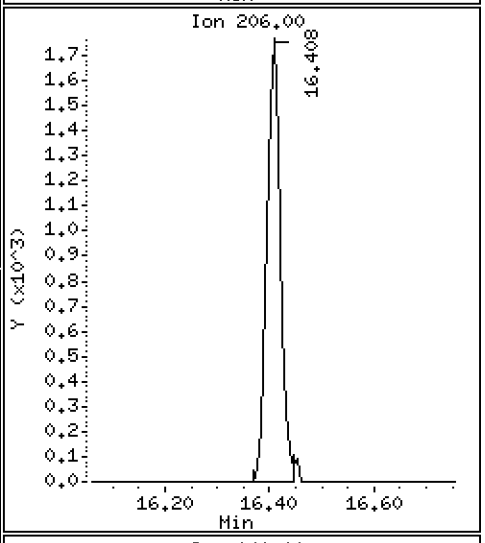
51 4-Chlorophenyl-phenylether

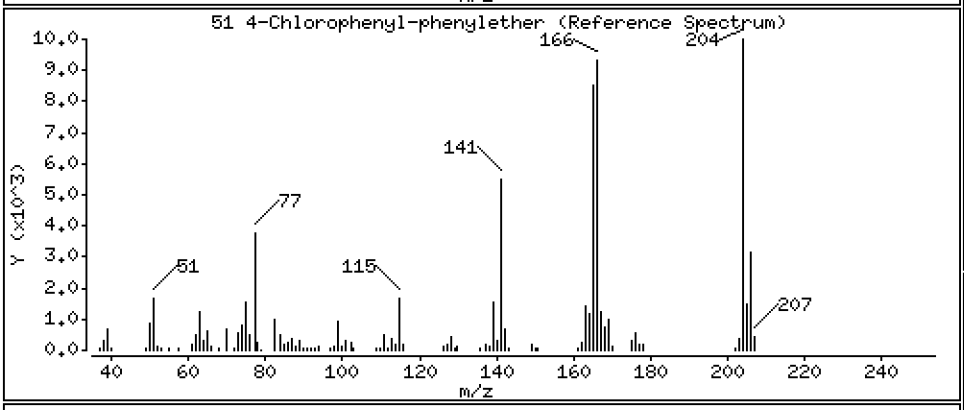
Concentration: 0.2115 ug/mL

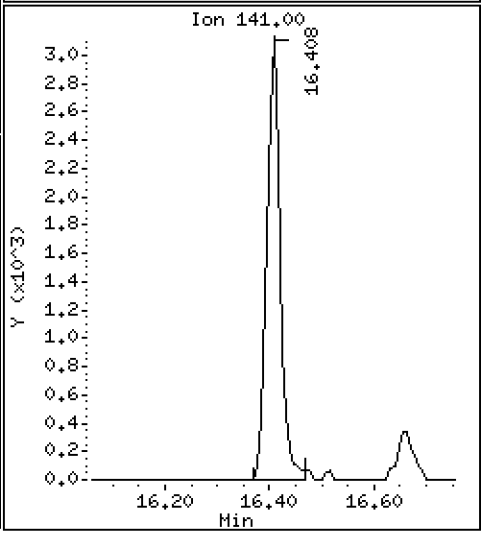


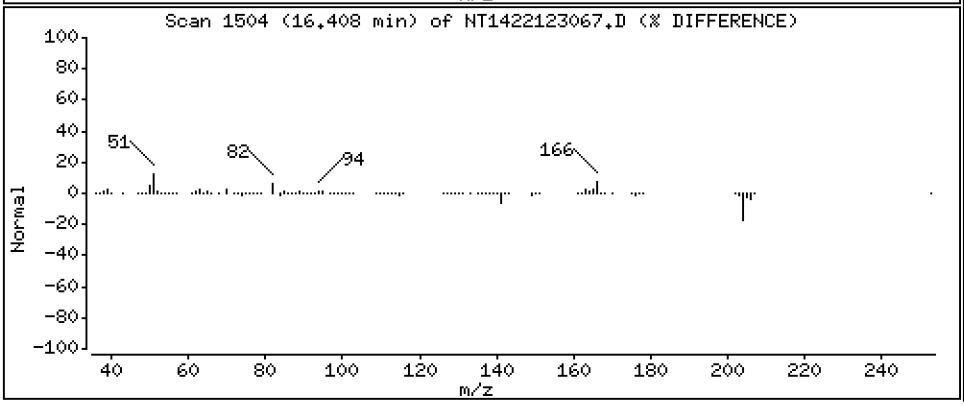












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

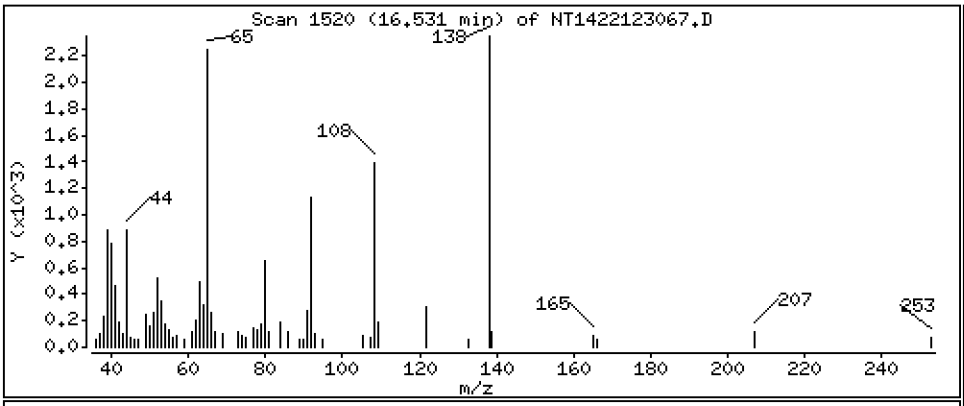
Operator: VTS

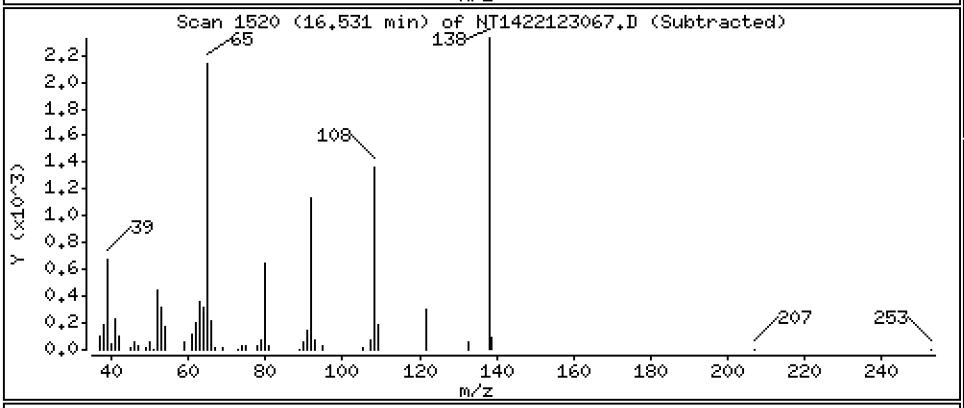
Column phase: ZB-5msi

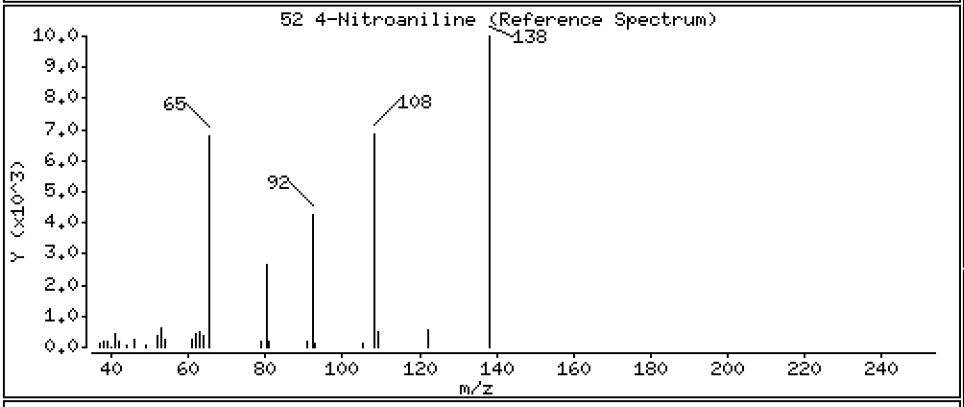
Column diameter: 0.25

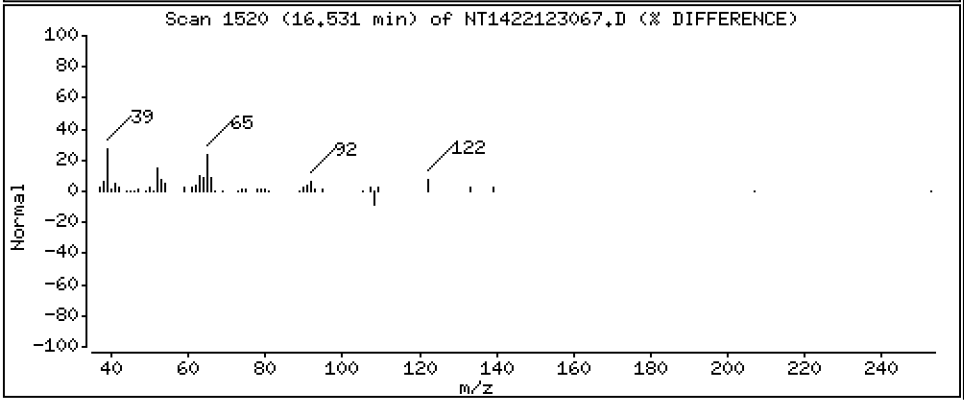
52 4-Nitroaniline

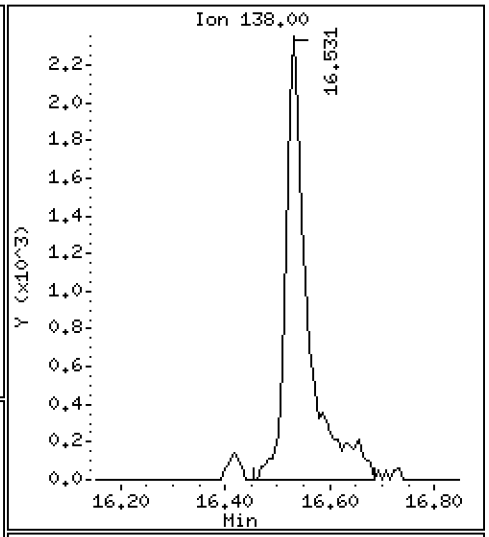
Concentration: 0.3738 ug/mL

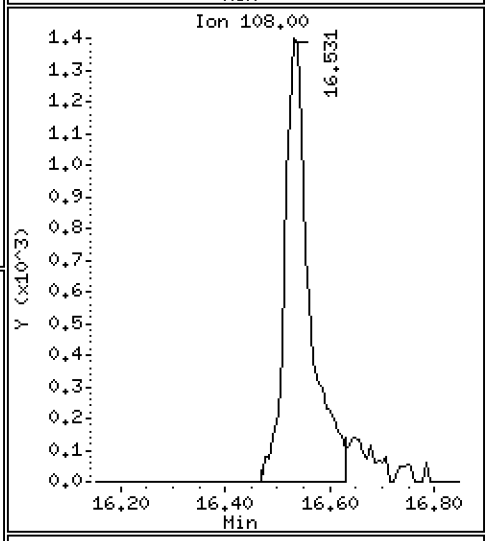


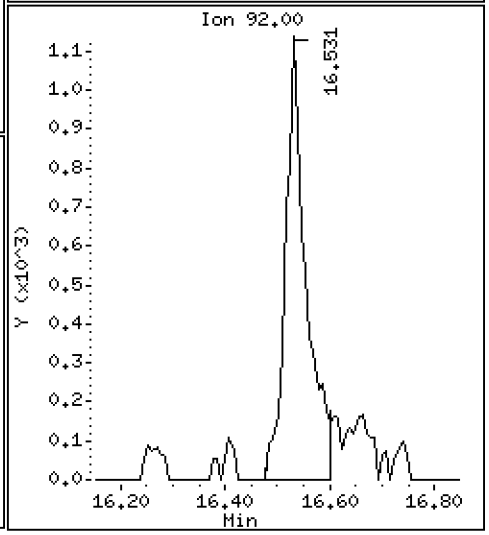












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

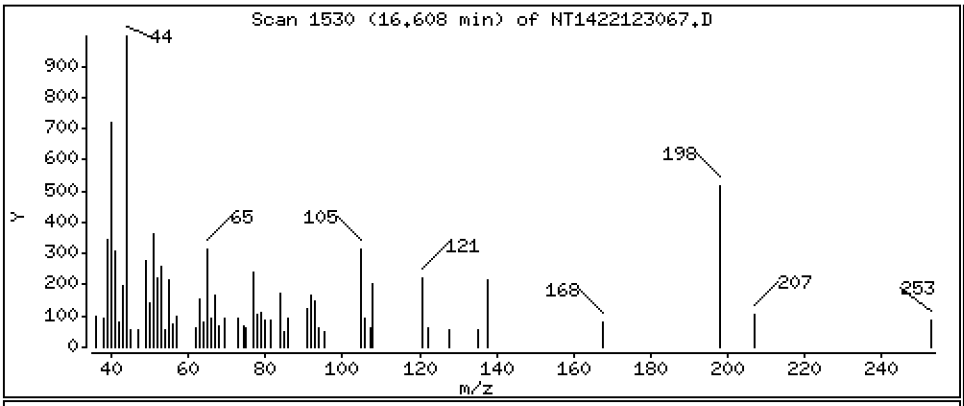
Operator: VTS

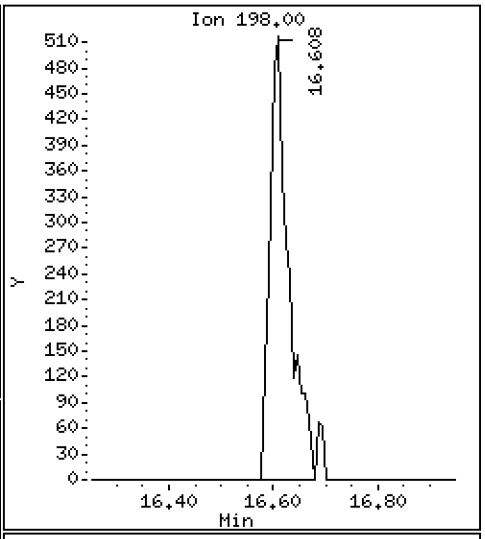
Column phase: ZB-5msi

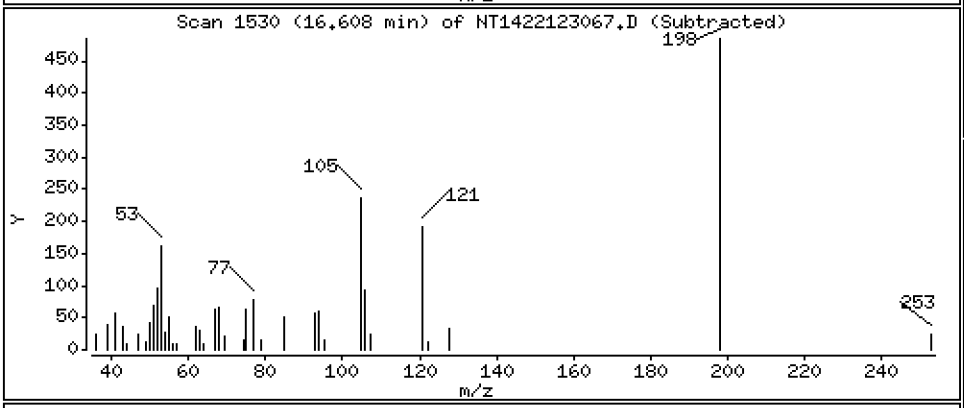
Column diameter: 0.25

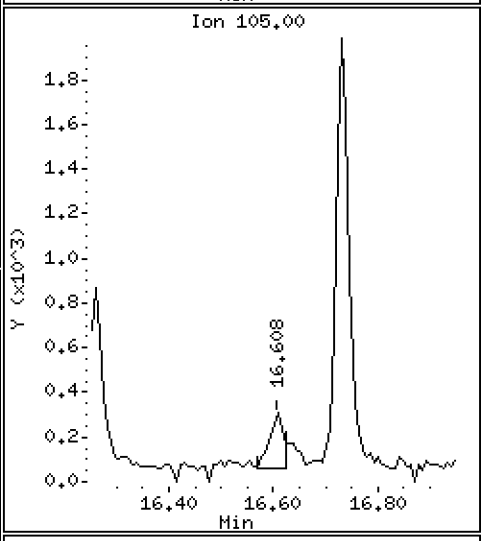
53 4,6-Dinitro-2-methylphenol

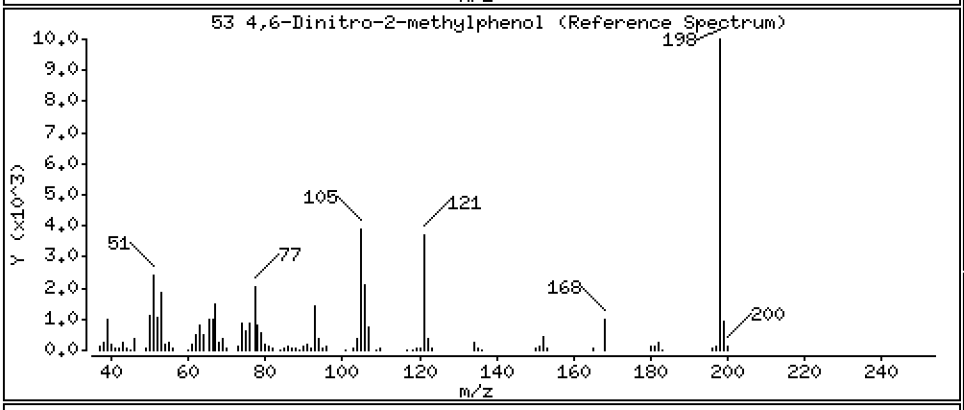
Concentration: 0.09261 ug/mL

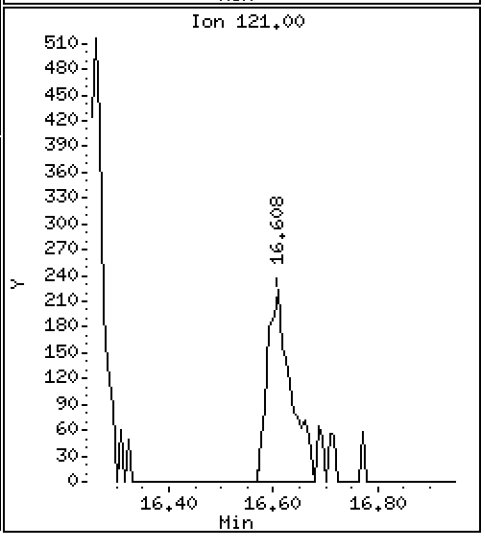


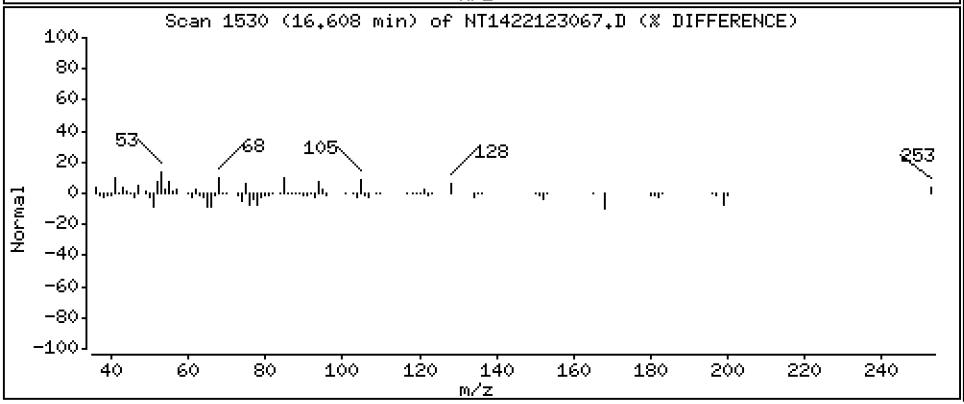












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

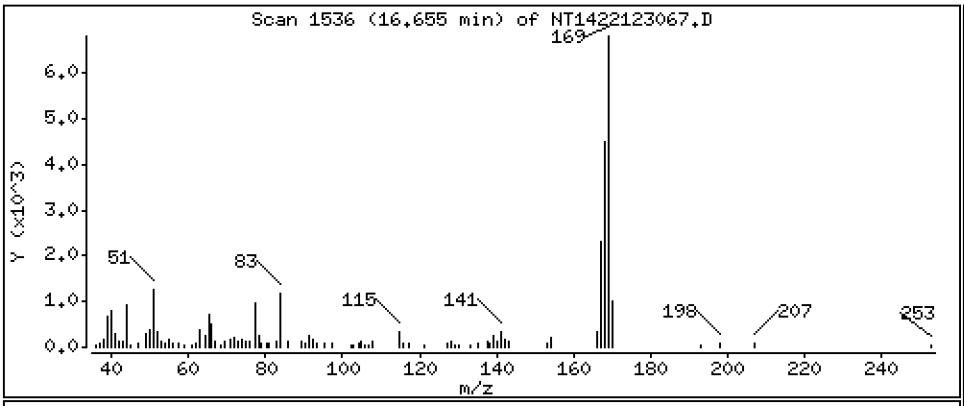
Operator: VTS

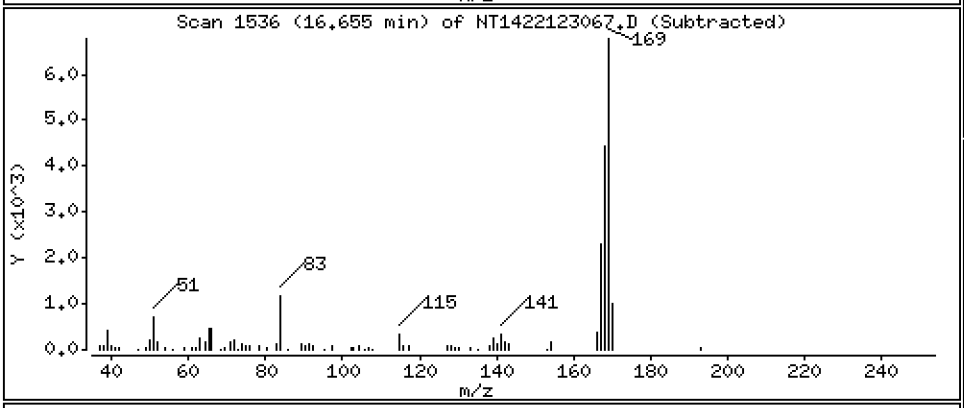
Column phase: ZB-5msi

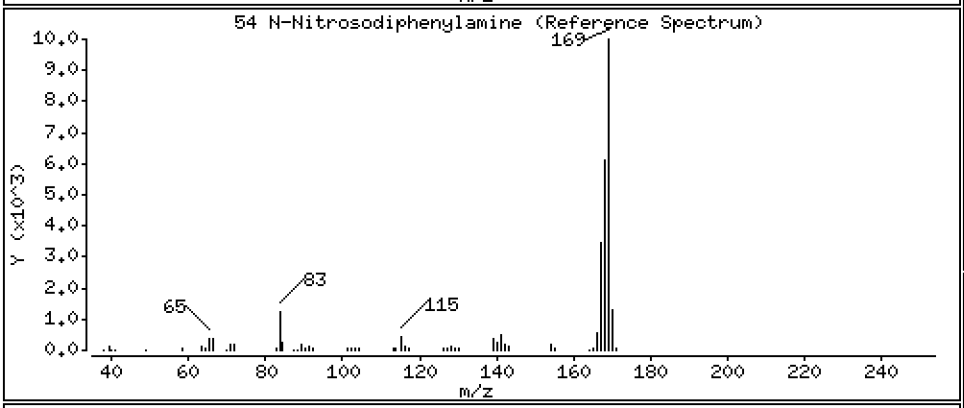
Column diameter: 0.25

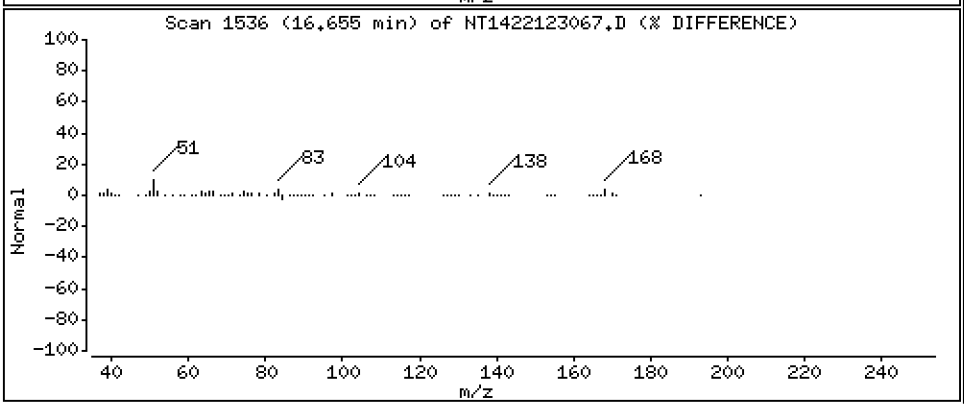
54 N-Nitrosodiphenylamine

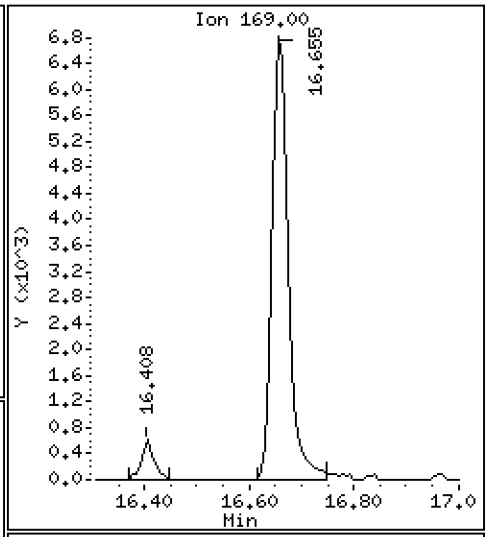
Concentration: 0.2509 ug/mL

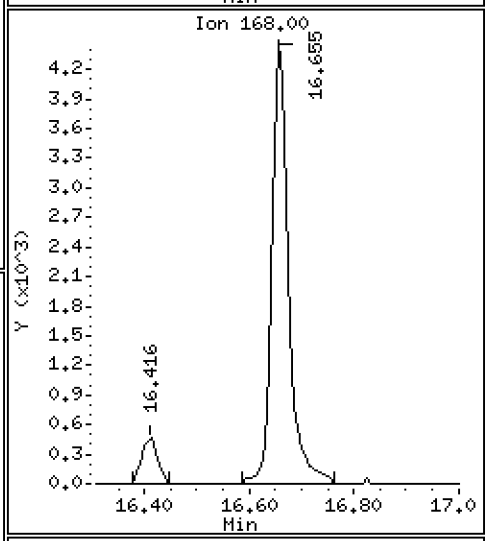


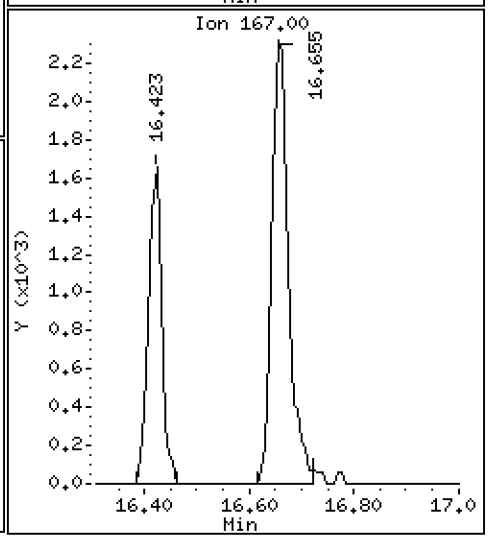












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

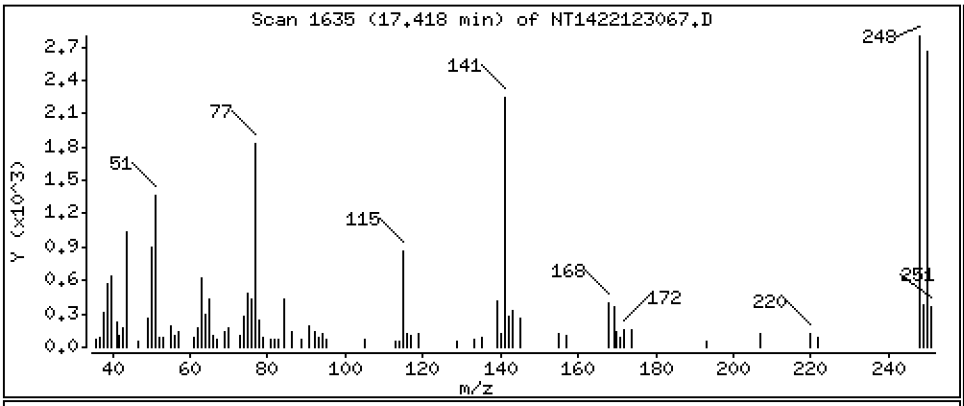
Operator: VTS

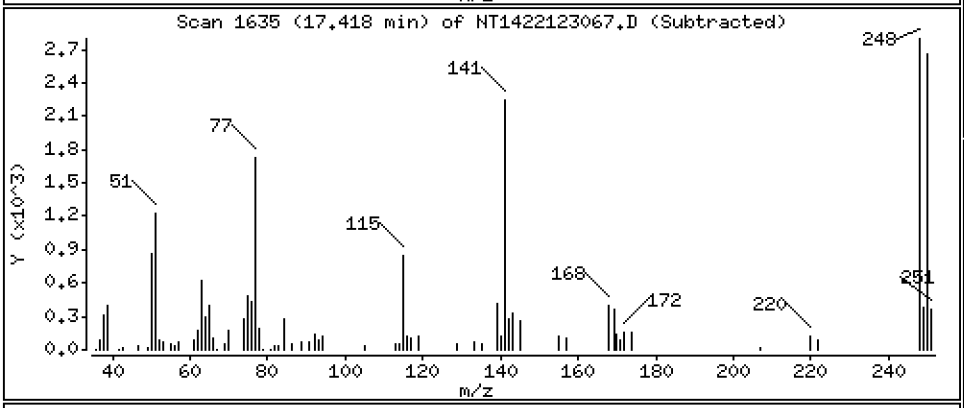
Column phase: ZB-5msi

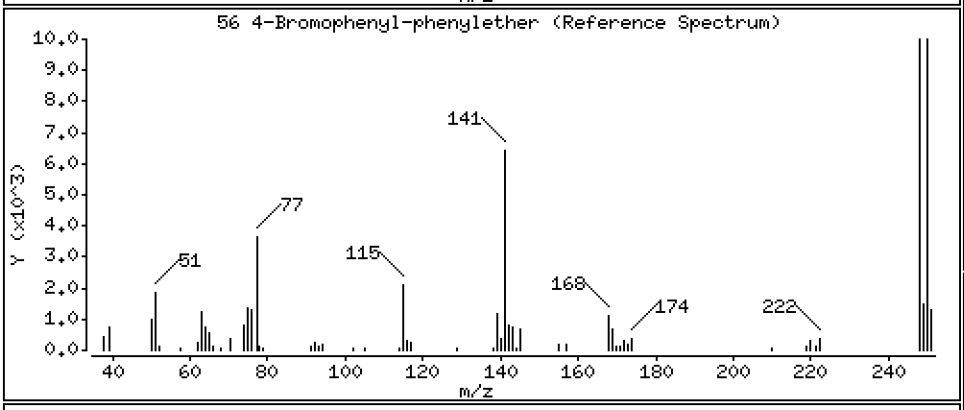
Column diameter: 0.25

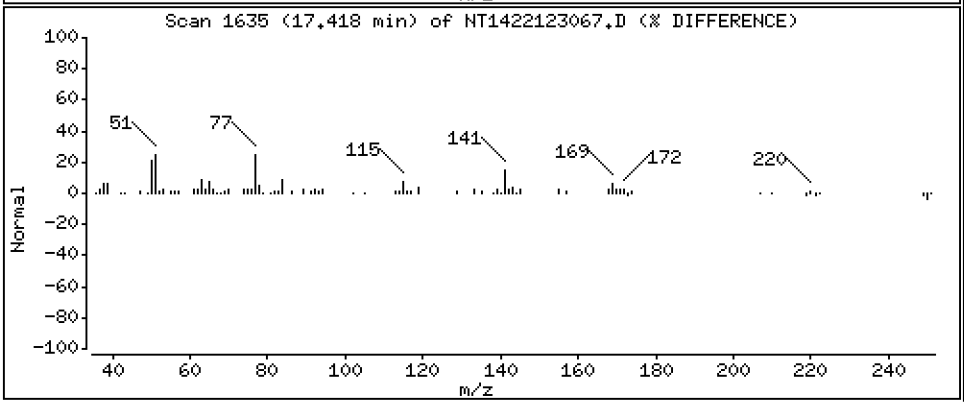
56 4-Bromophenyl-phenylether

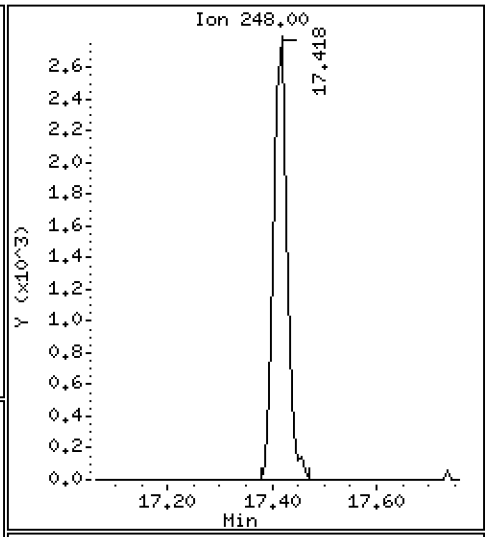
Concentration: 0.2232 ug/mL

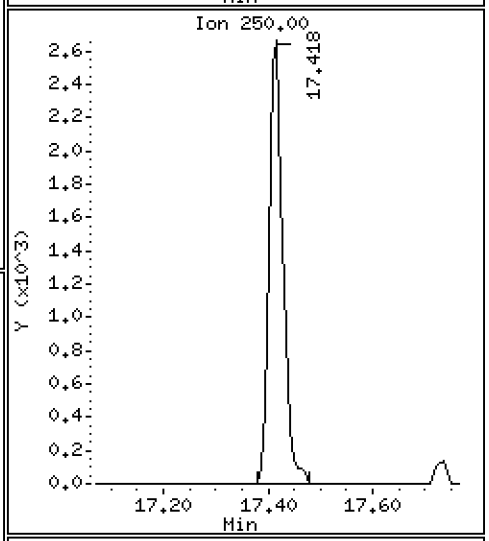


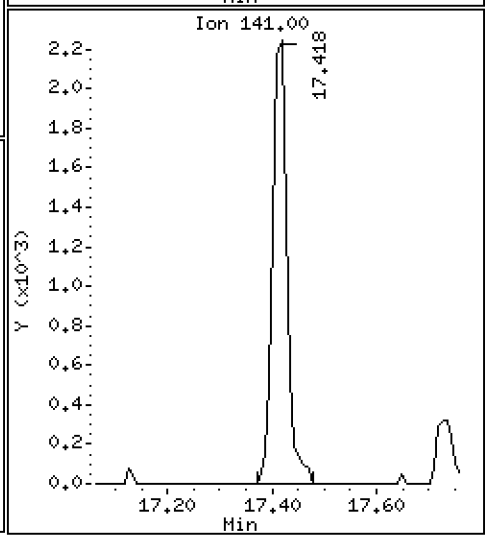












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

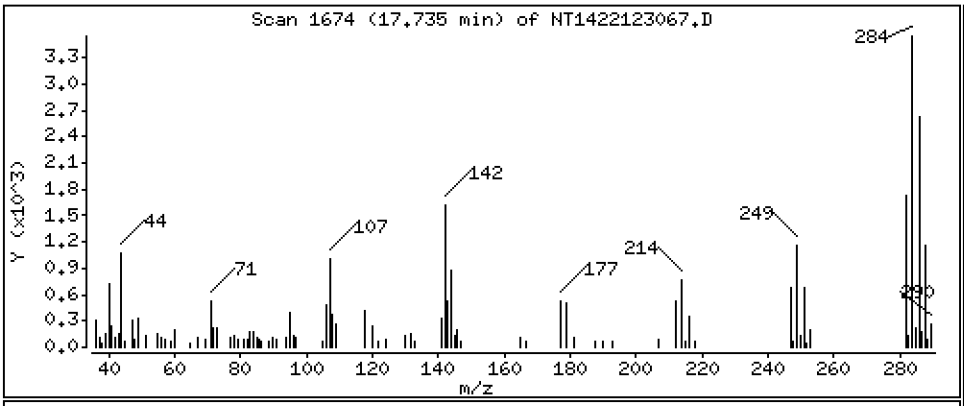
Operator: VTS

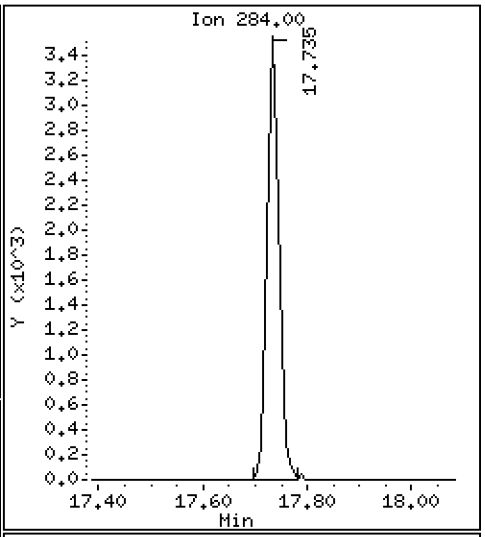
Column phase: ZB-5msi

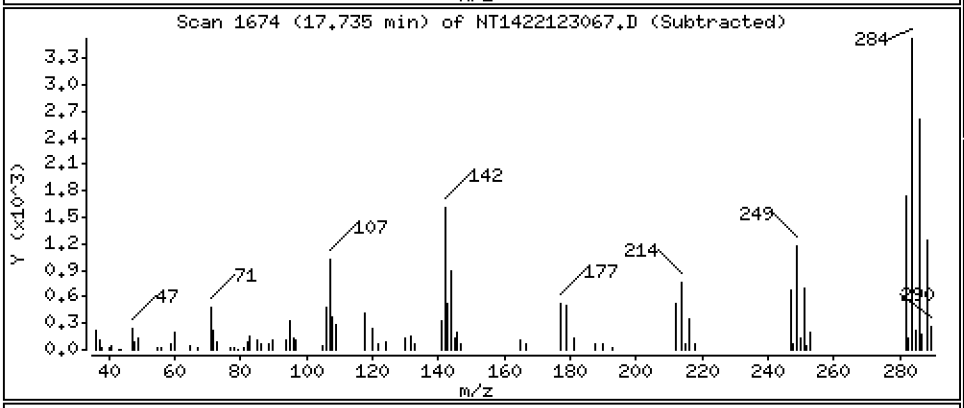
Column diameter: 0.25

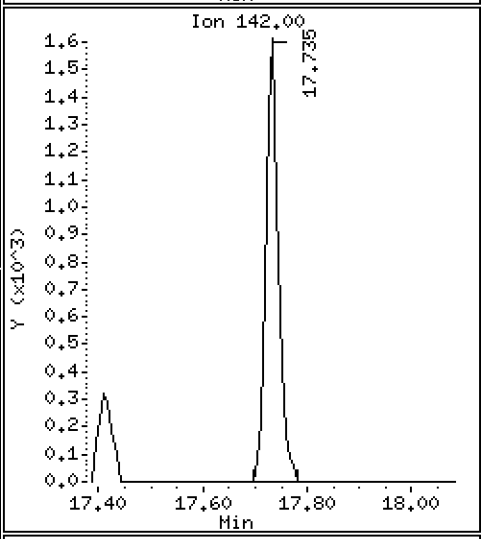
57 Hexachlorobenzene

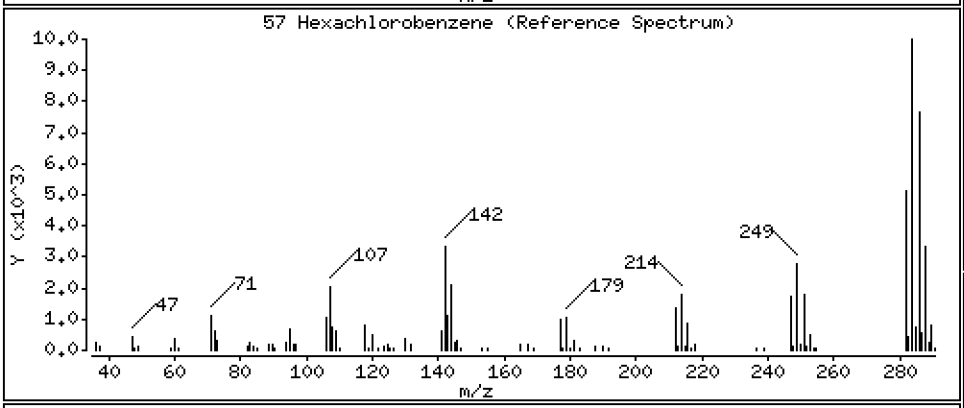
Concentration: 0.2368 ug/mL

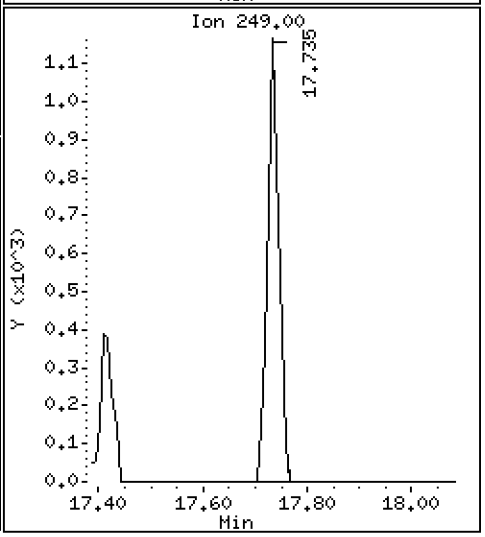


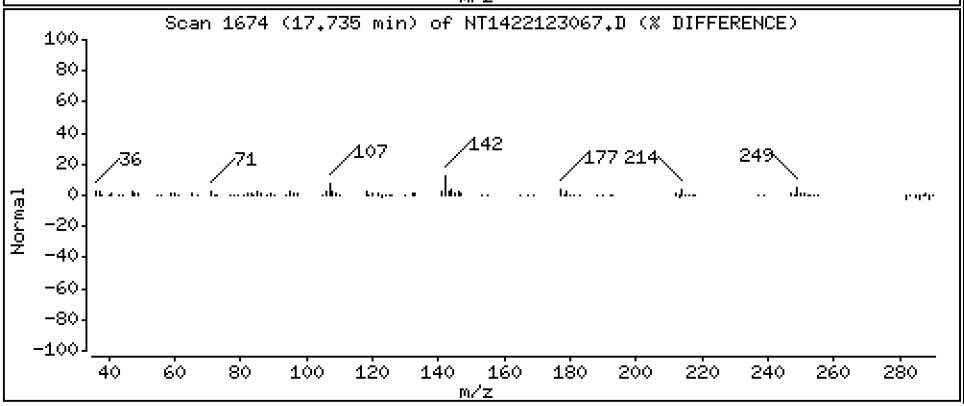












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

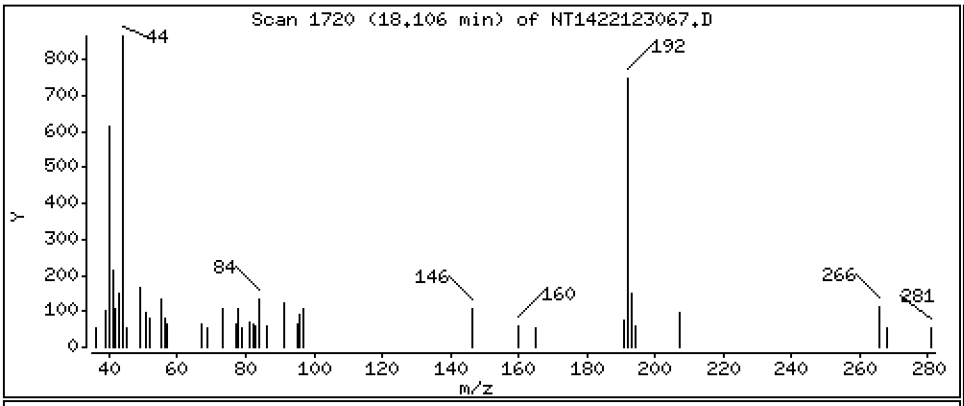
Operator: VTS

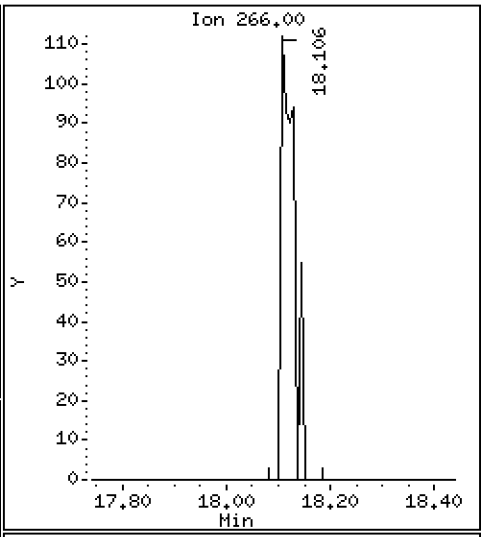
Column phase: ZB-5msi

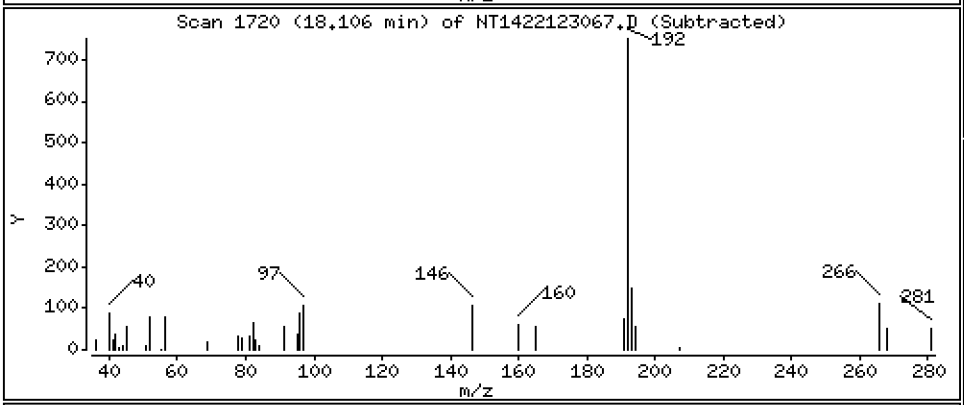
Column diameter: 0.25

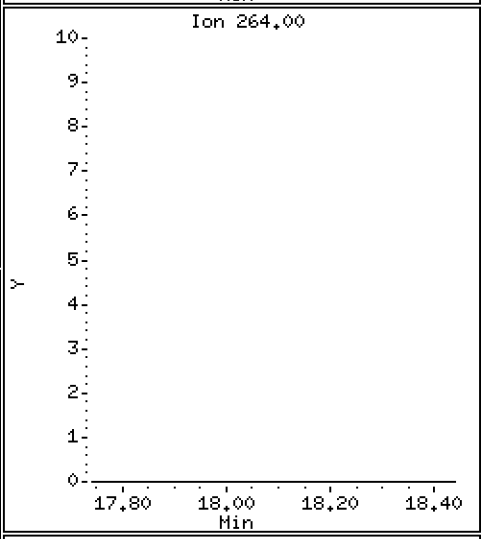
58 Pentachlorophenol

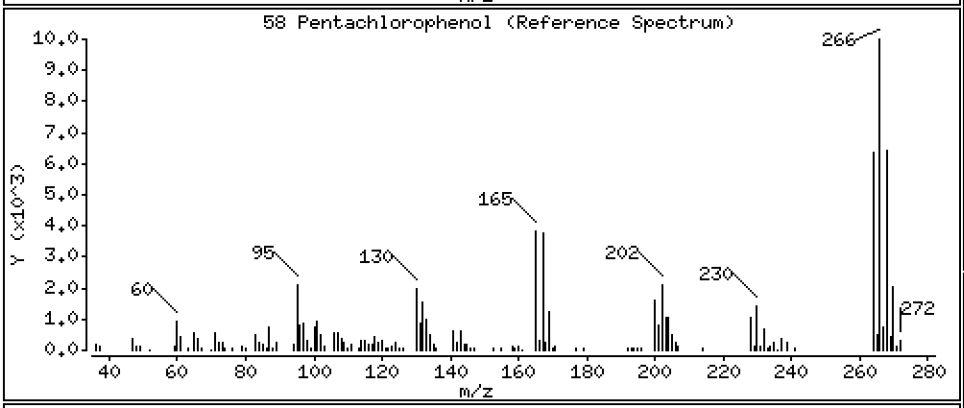
Concentration: 0.02024 ug/mL

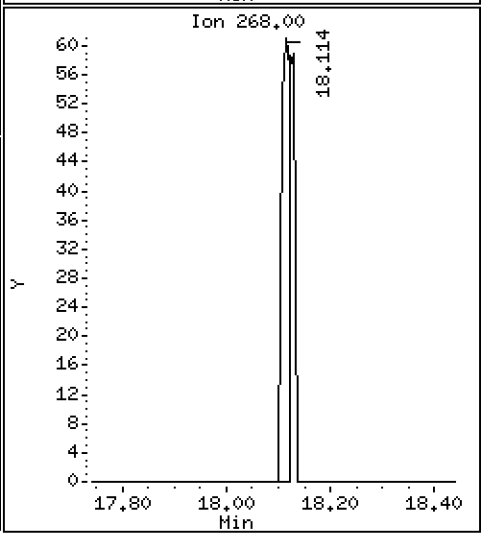


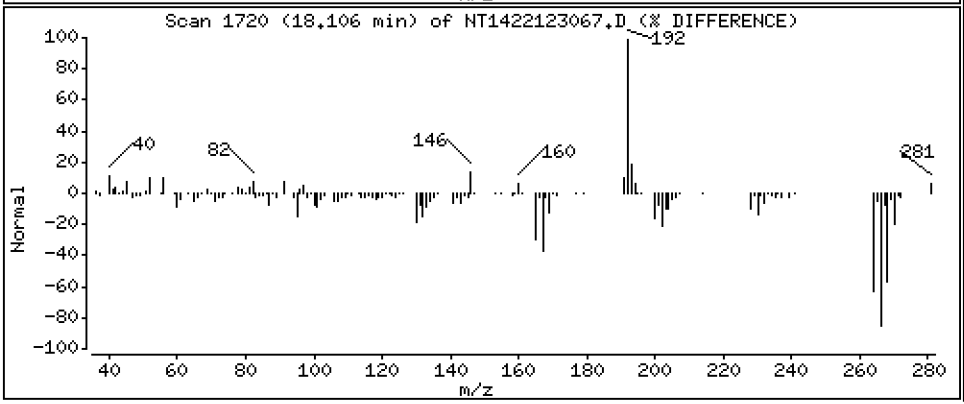












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123067.D

Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

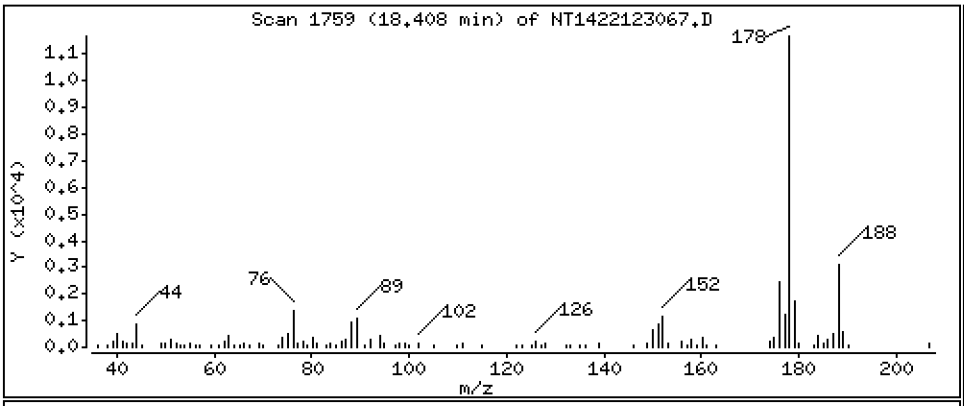
Operator: VTS

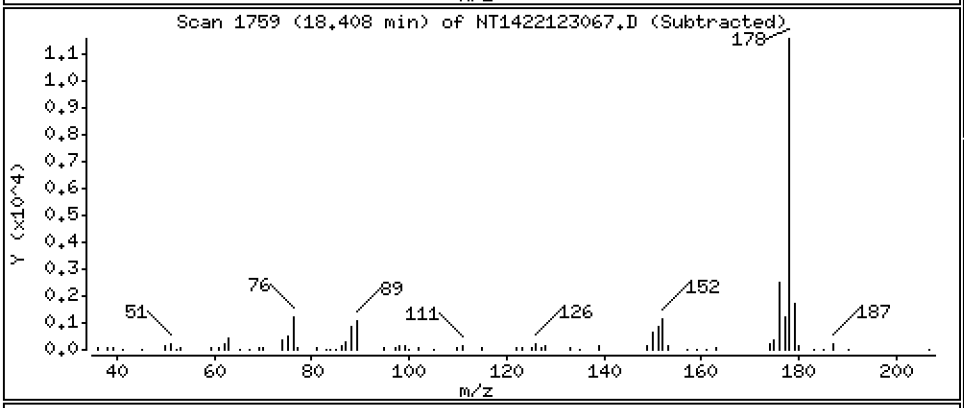
Column phase: ZB-5msi

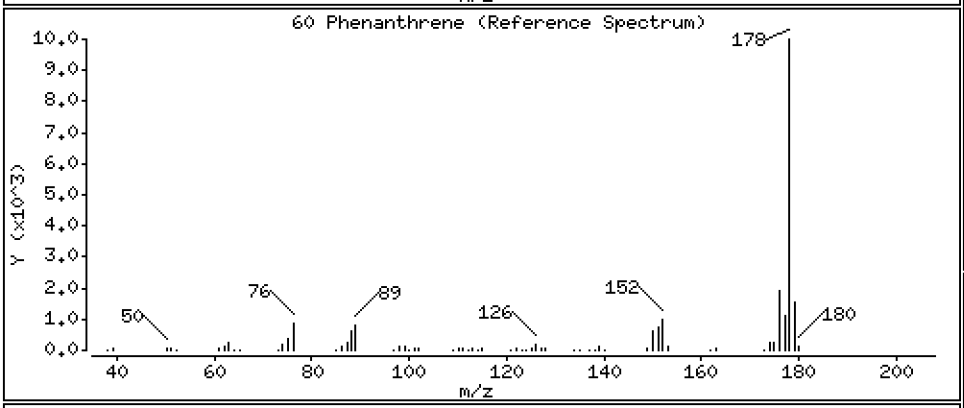
Column diameter: 0.25

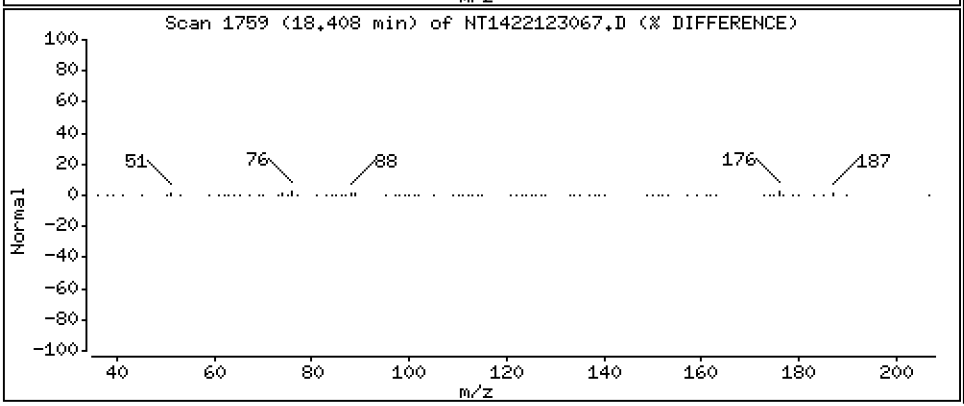
60 Phenanthrene

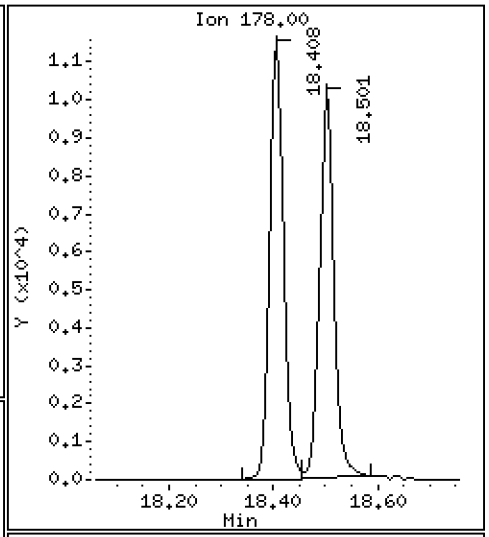
Concentration: 0.2396 ug/mL

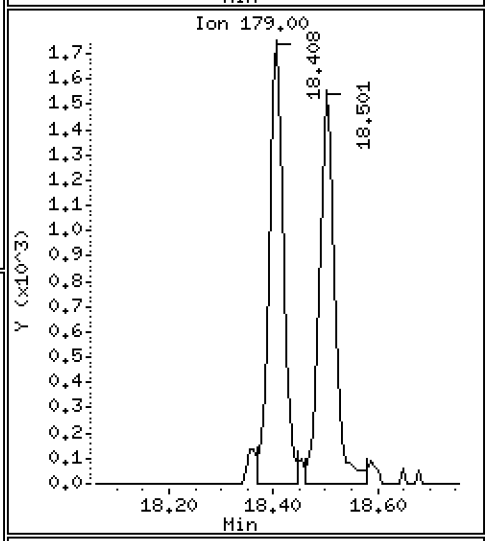


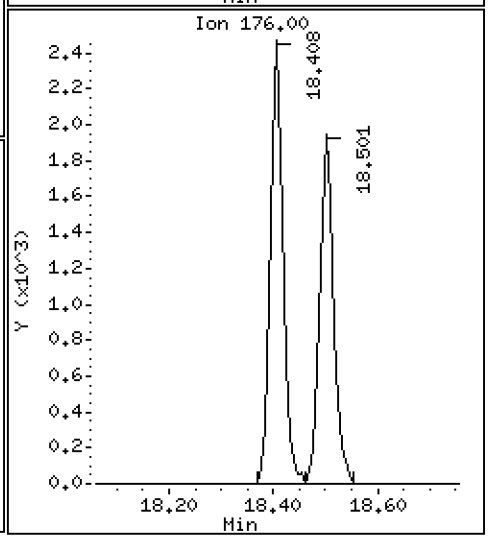












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

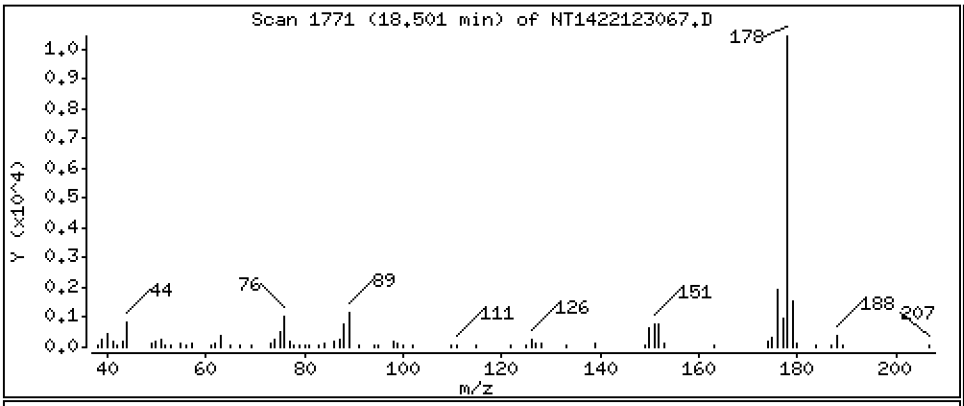
Operator: VTS

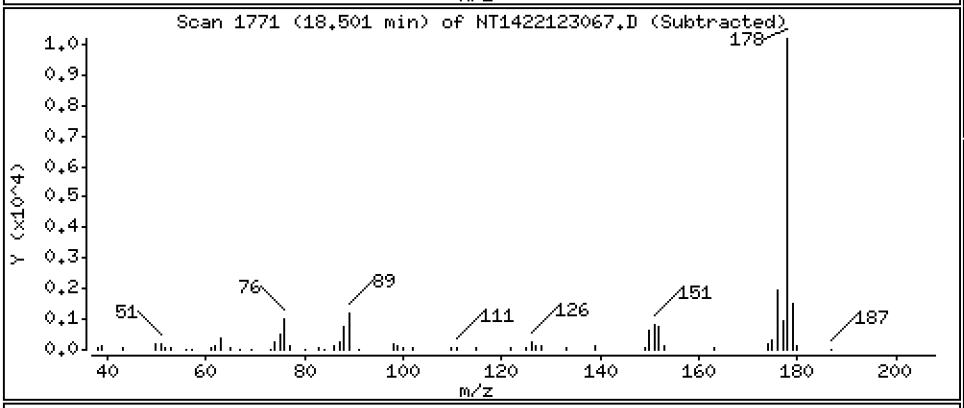
Column phase: ZB-5msi

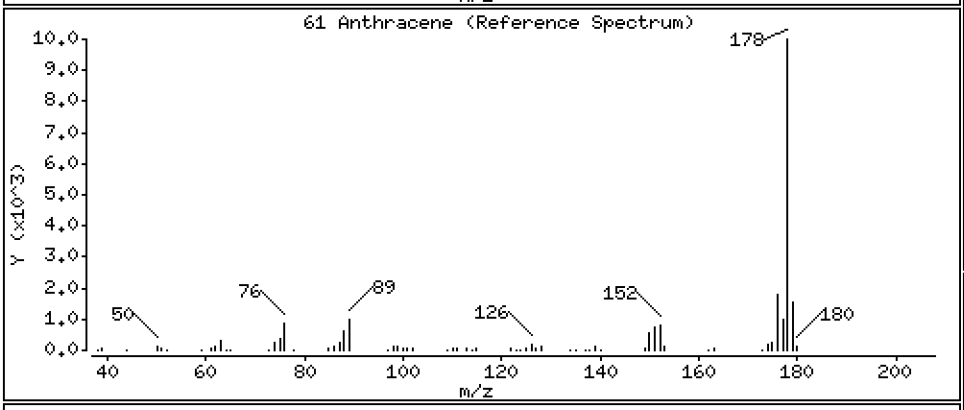
Column diameter: 0.25

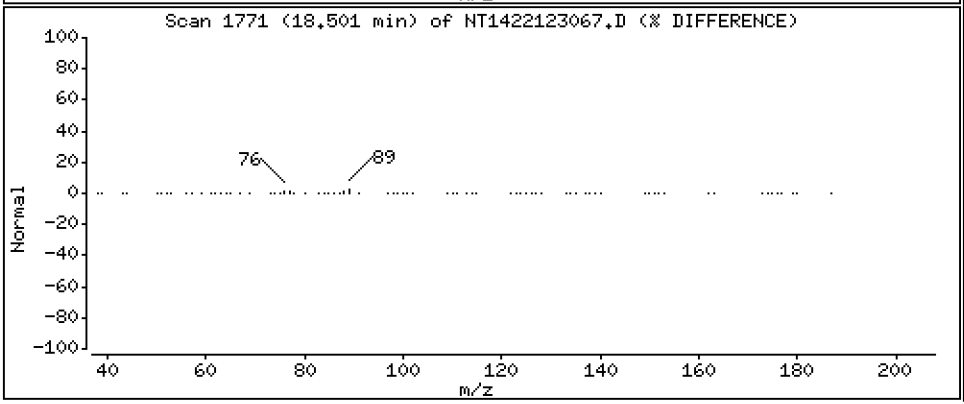
61 Anthracene

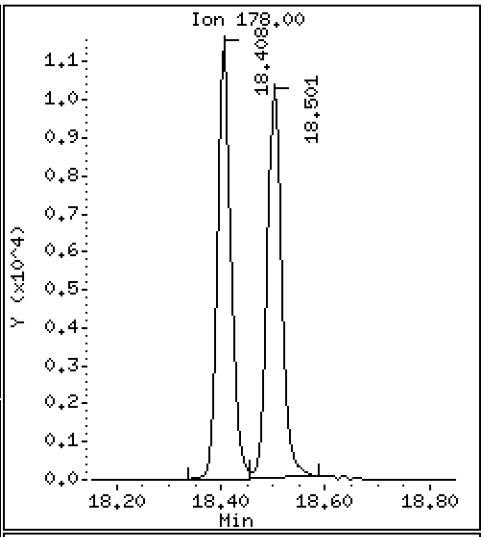
Concentration: 0.2322 ug/mL

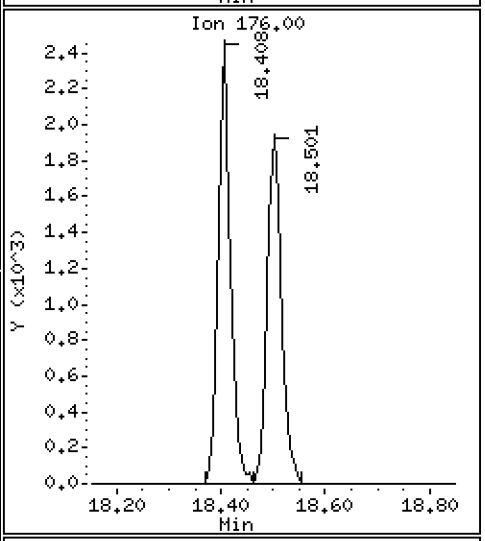


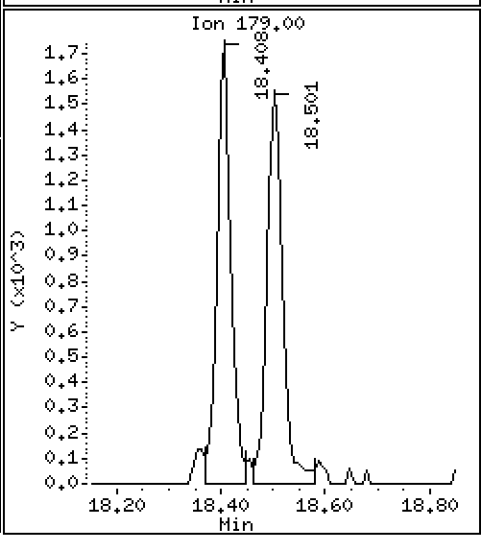












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

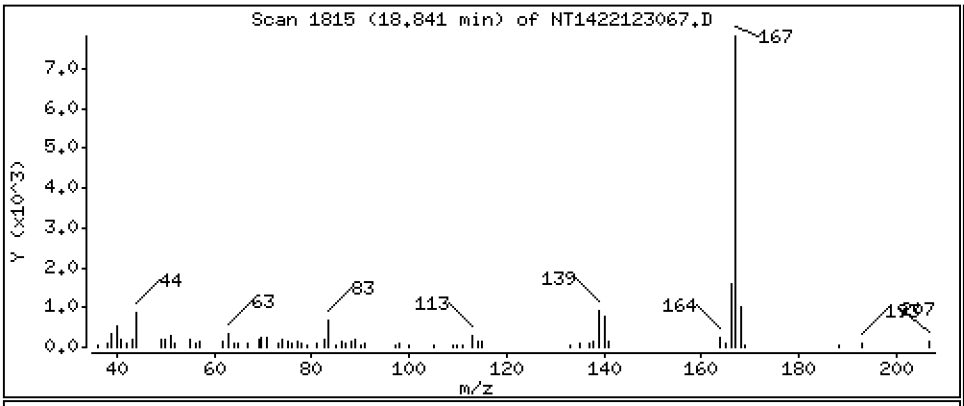
Operator: VTS

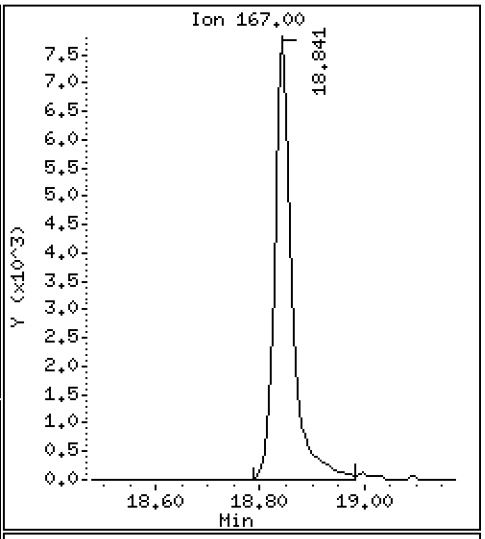
Column phase: ZB-5msi

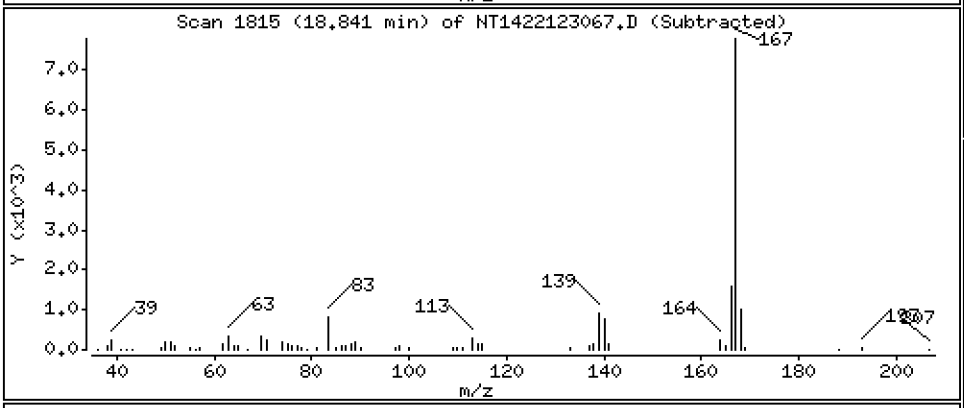
Column diameter: 0.25

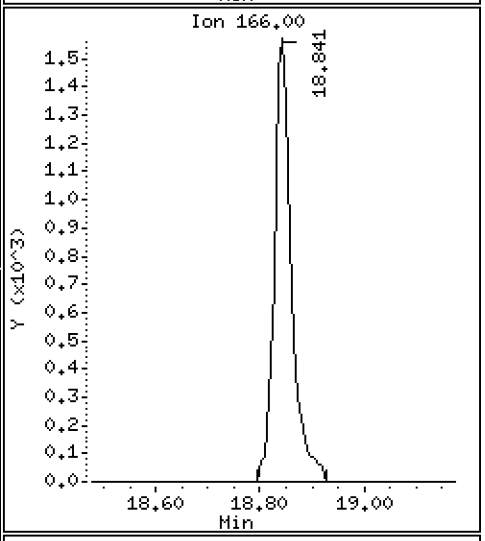
62 Carbazole

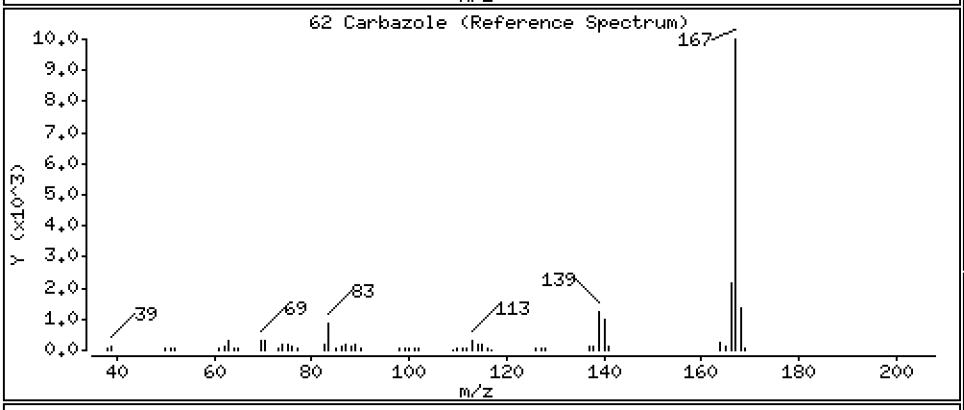
Concentration: 0.2308 ug/mL

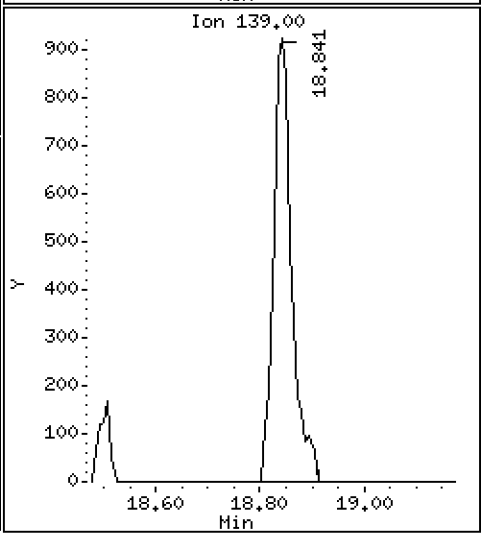


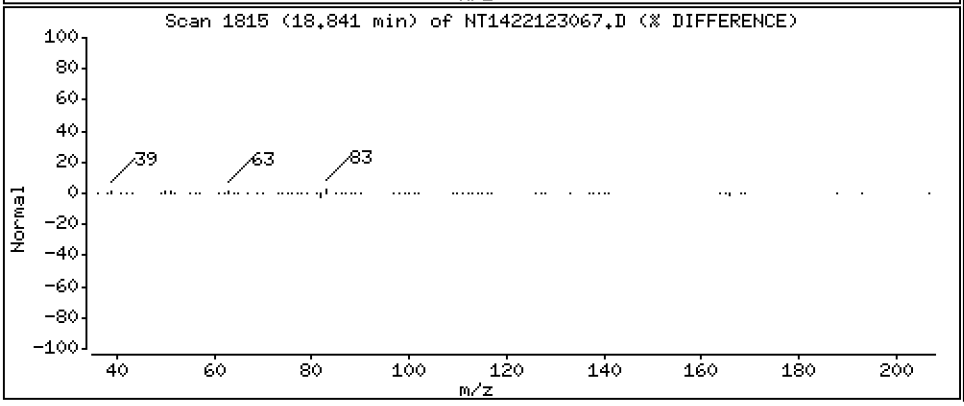












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

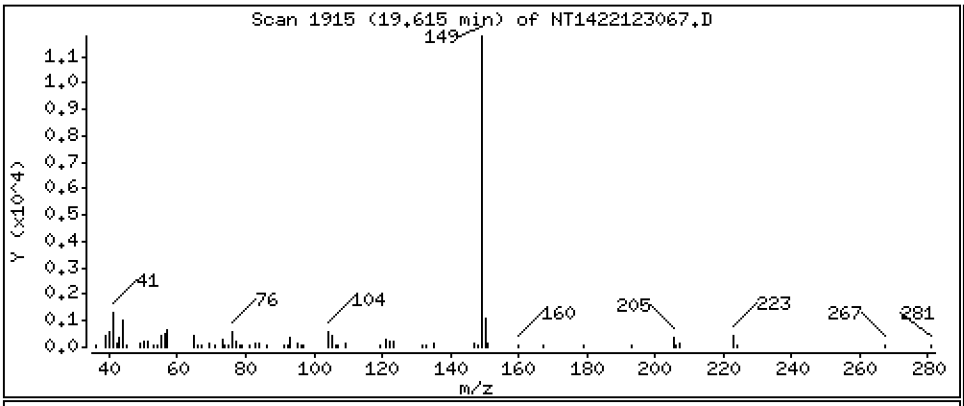
Operator: VTS

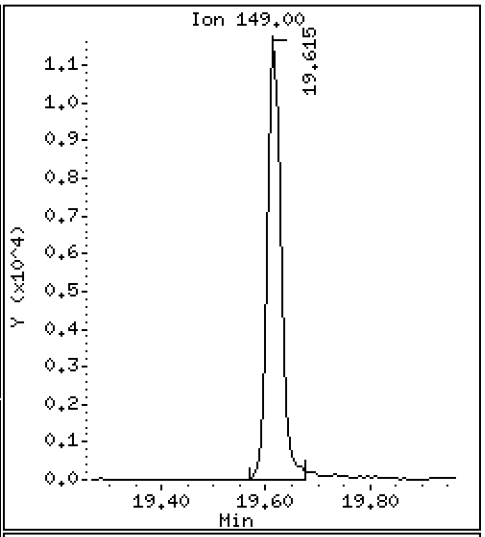
Column phase: ZB-5msi

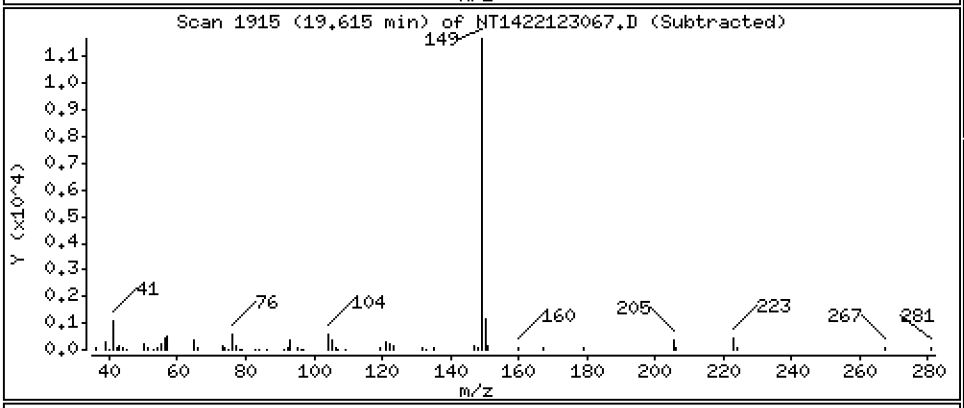
Column diameter: 0.25

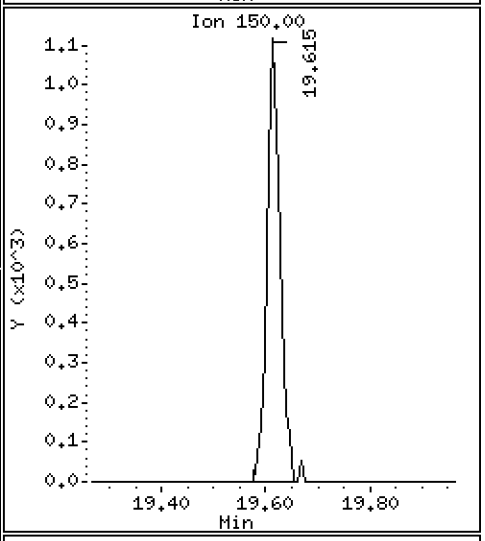
63 Di-n-butylphthalate

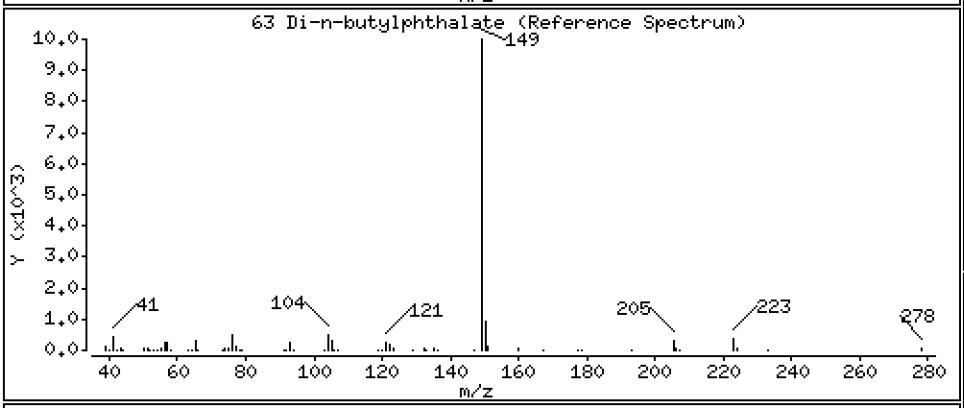
Concentration: 0.2273 ug/mL

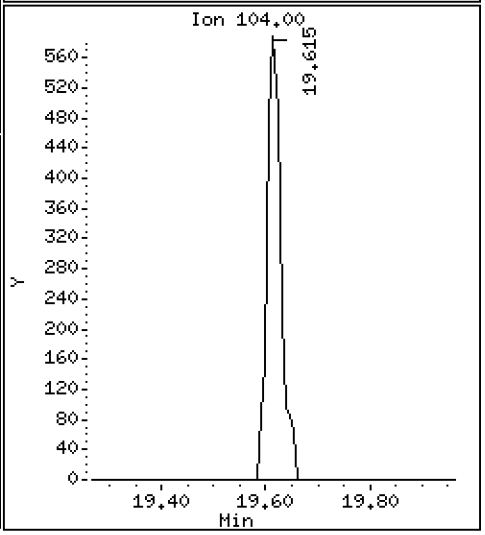


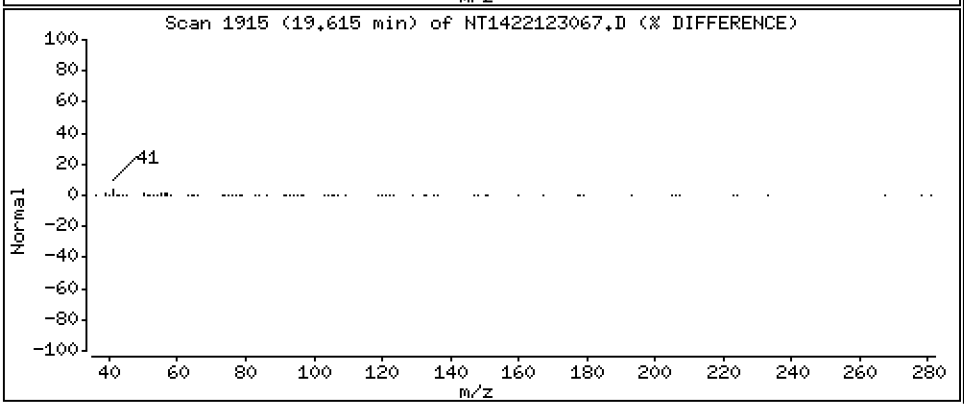












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

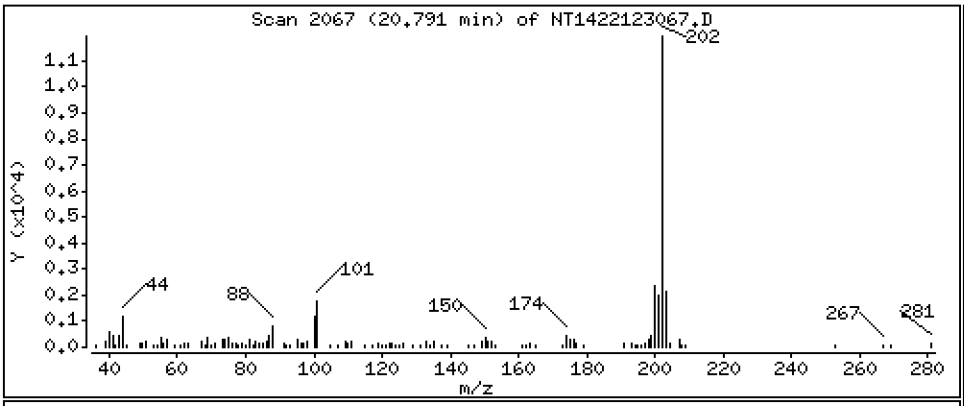
Operator: VTS

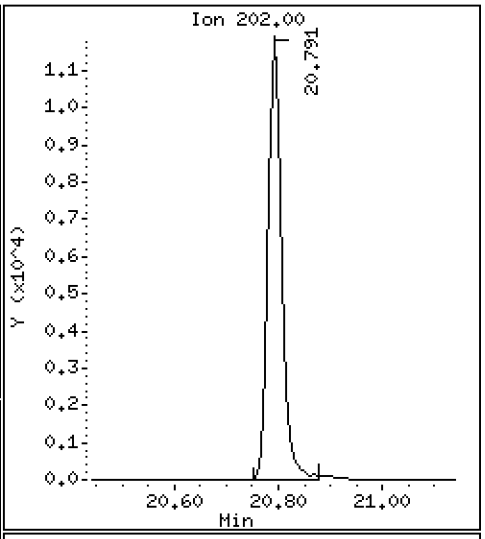
Column phase: ZB-5msi

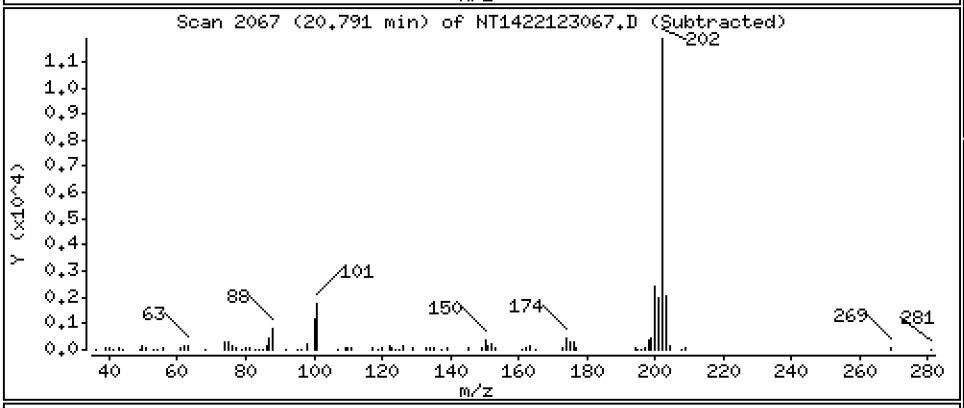
Column diameter: 0.25

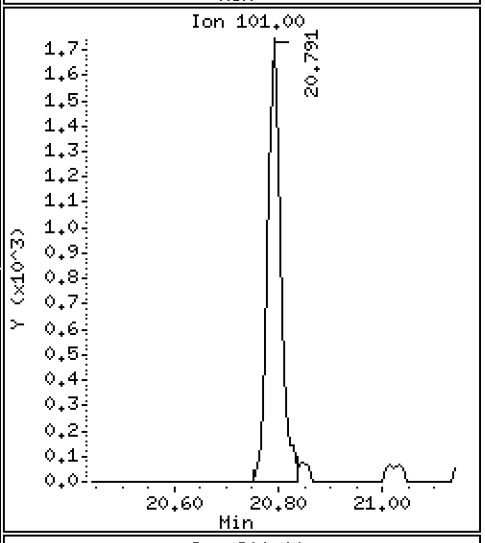
64 Fluoranthene

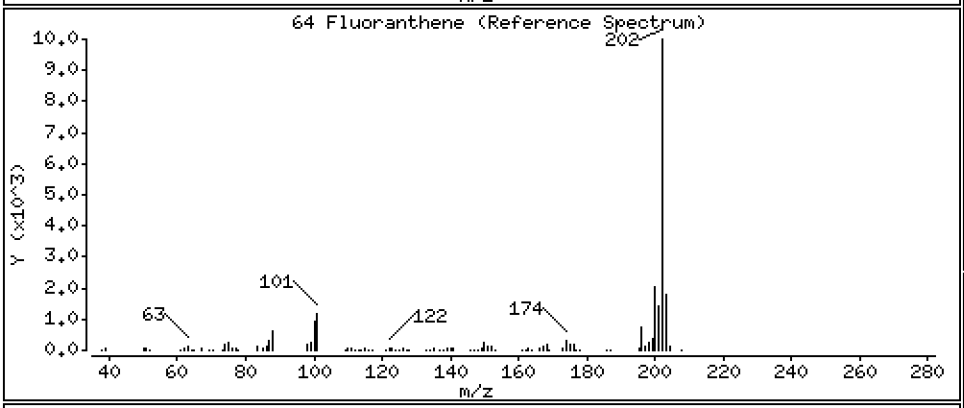
Concentration: 0.2381 ug/mL

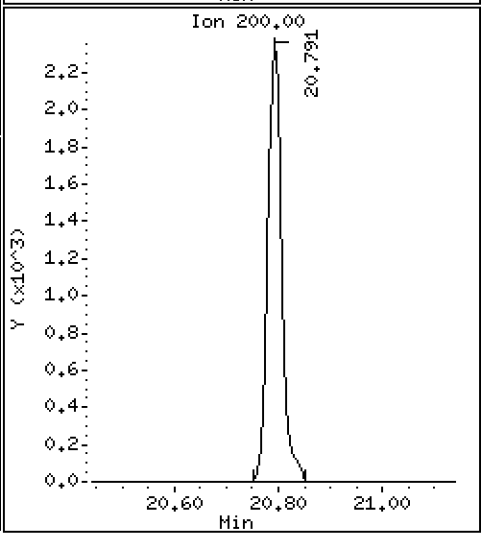


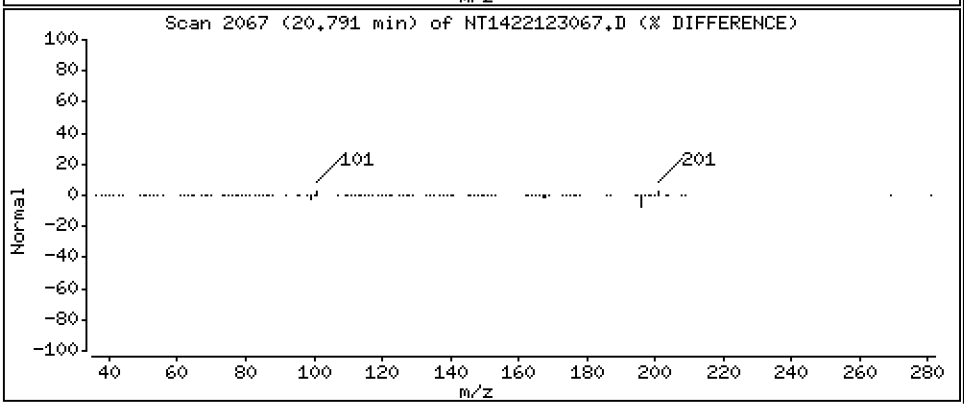












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

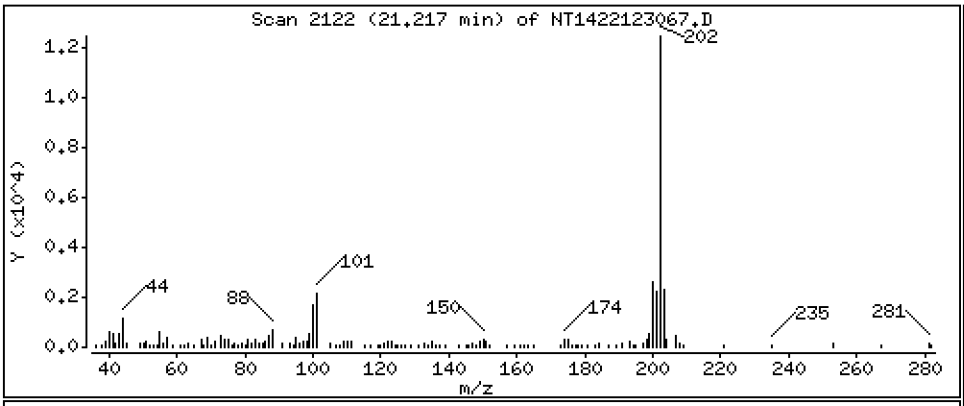
Operator: VTS

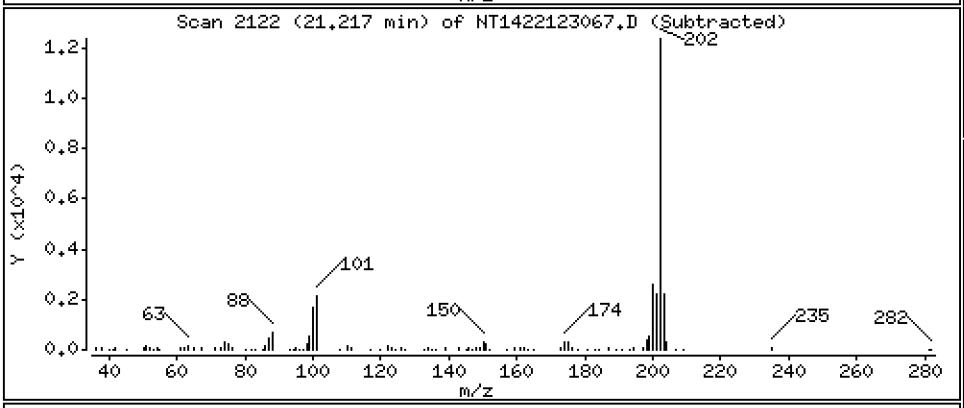
Column phase: ZB-5msi

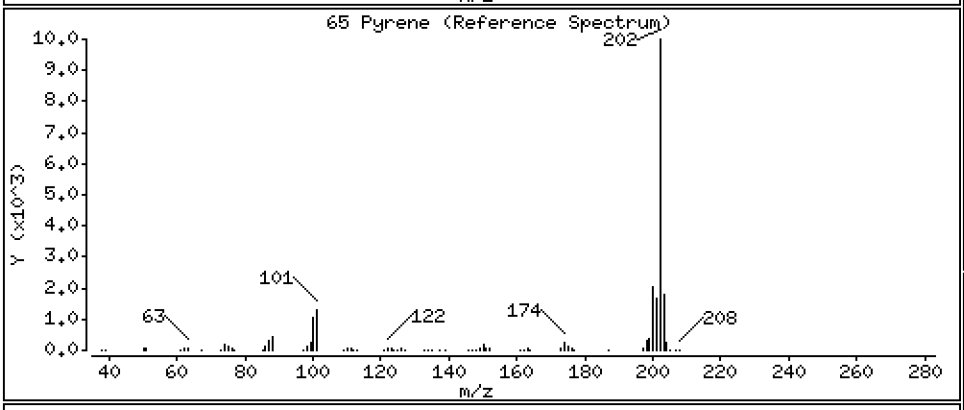
Column diameter: 0.25

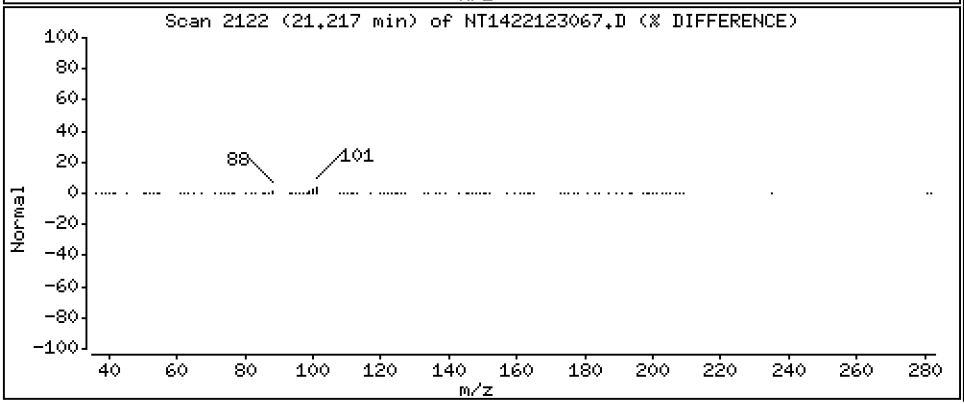
65 Pyrene

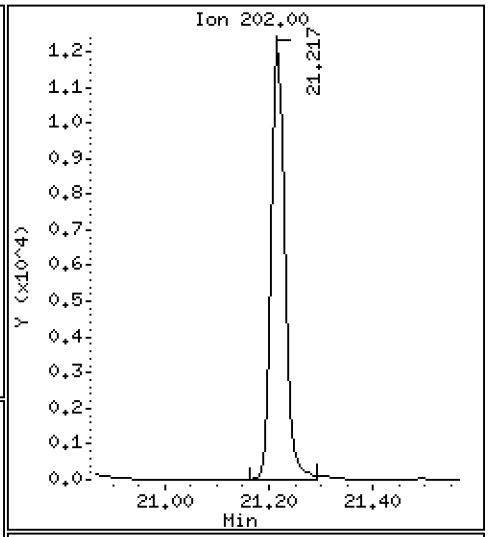
Concentration: 0.2334 ug/mL

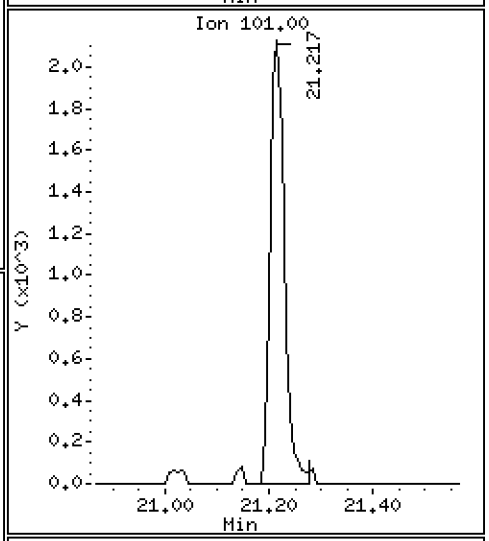


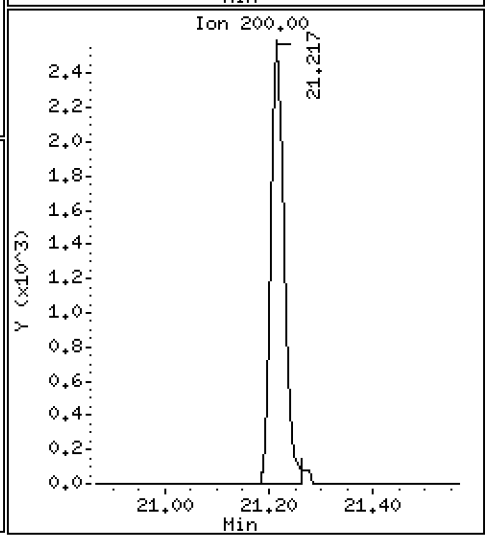












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

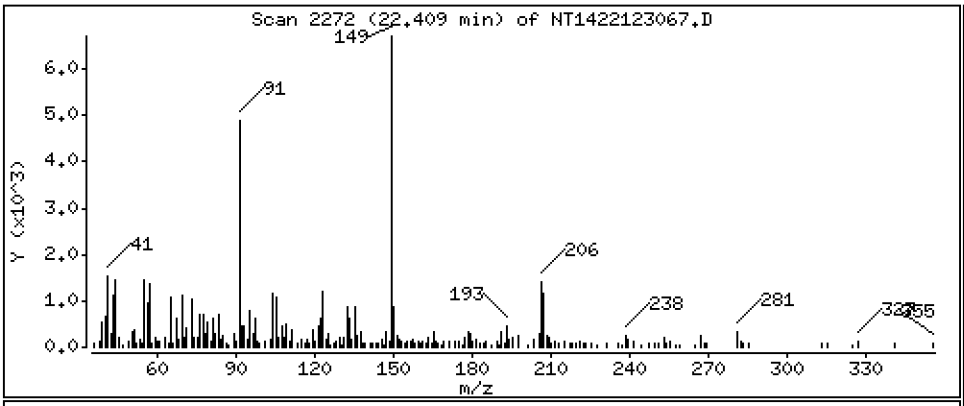
Operator: VTS

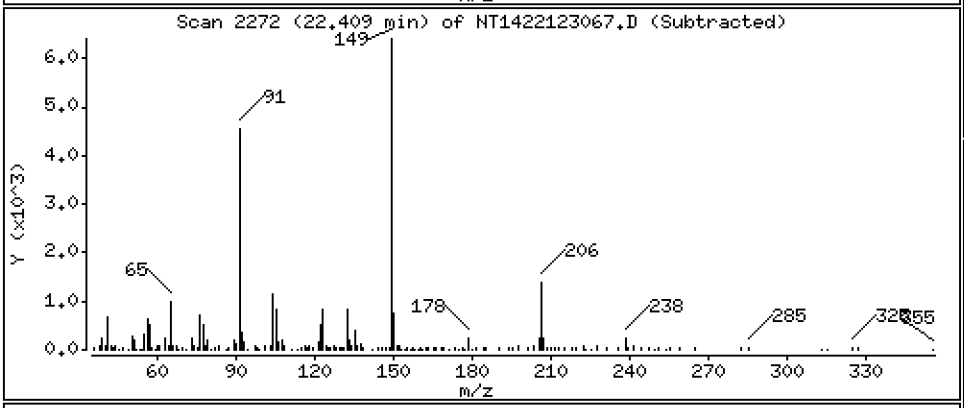
Column phase: ZB-5msi

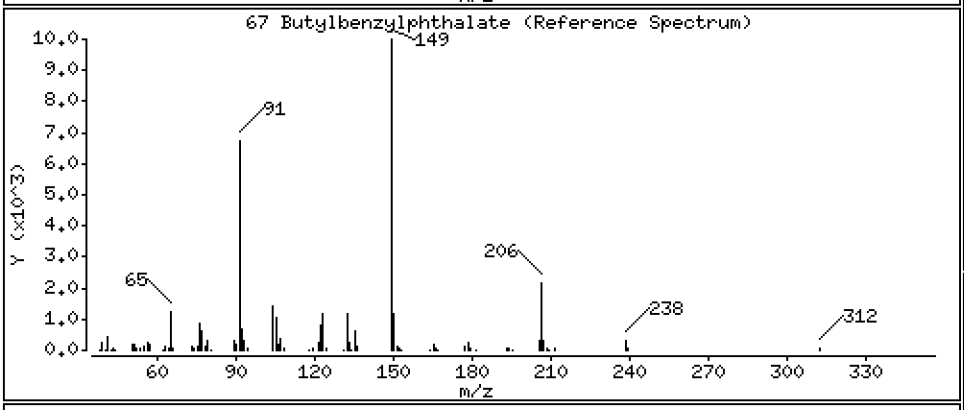
Column diameter: 0.25

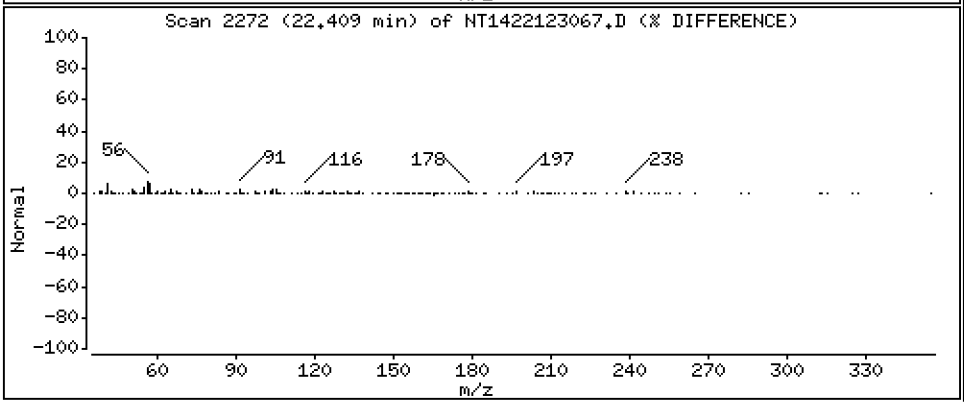
67 Butylbenzylphthalate

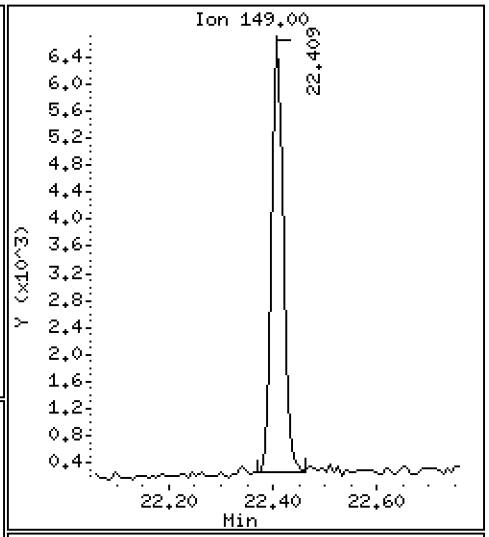
Concentration: 0.2699 ug/mL

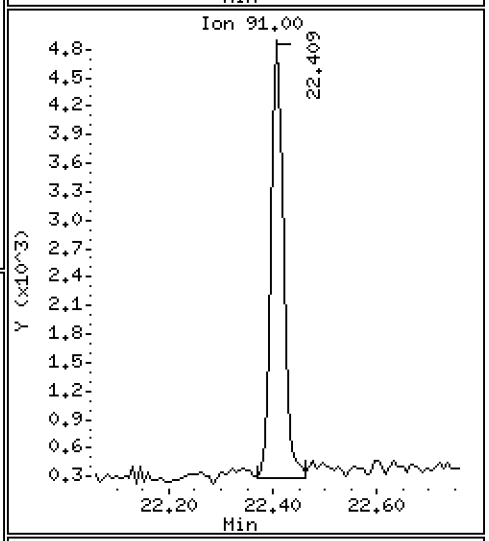


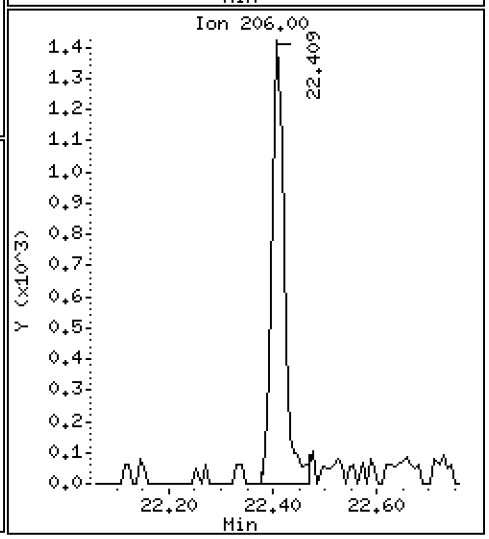












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123067.D

Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

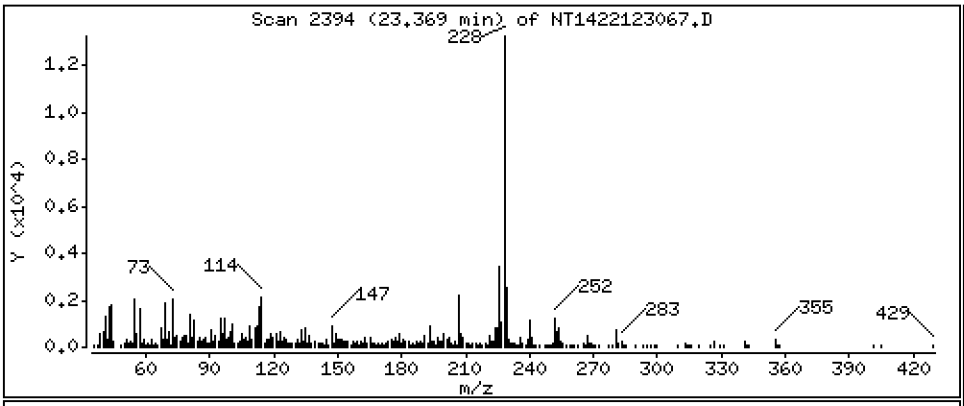
Operator: VTS

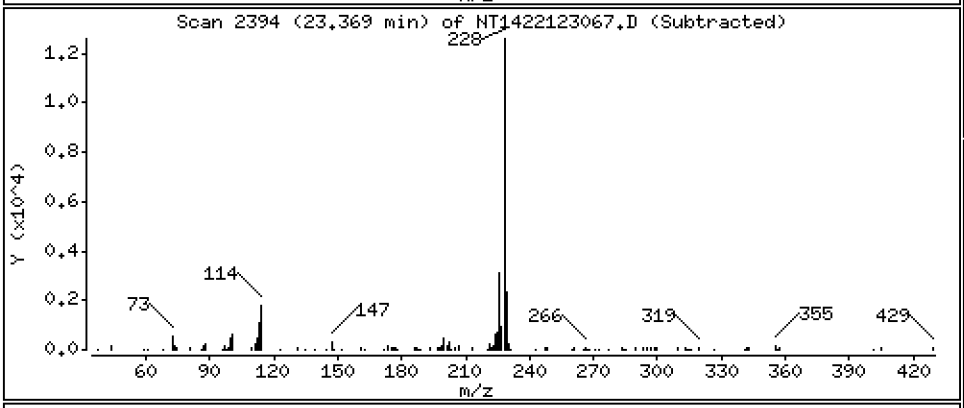
Column phase: ZB-5msi

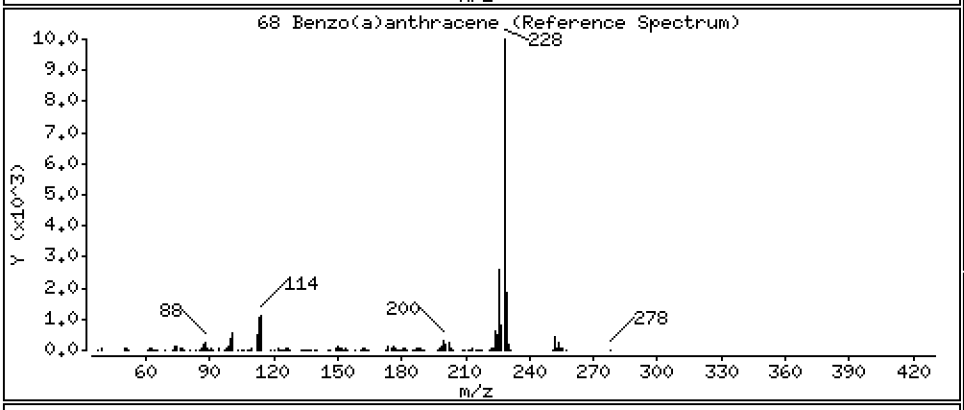
Column diameter: 0.25

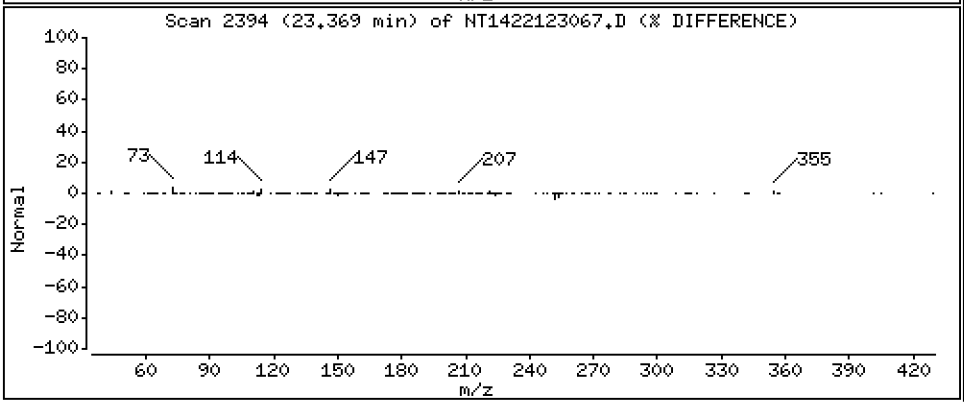
68 Benzo(a)anthracene

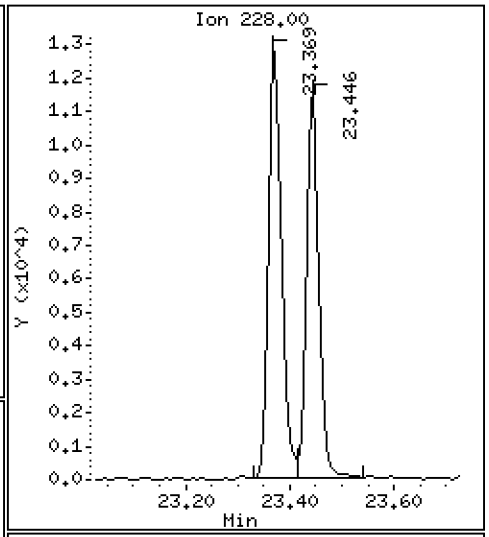
Concentration: 0.2639 ug/mL

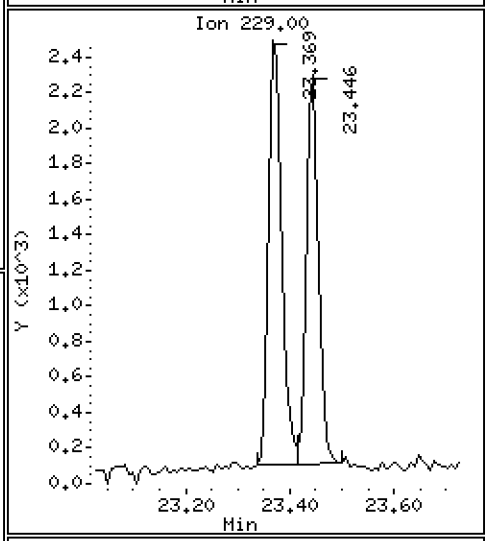


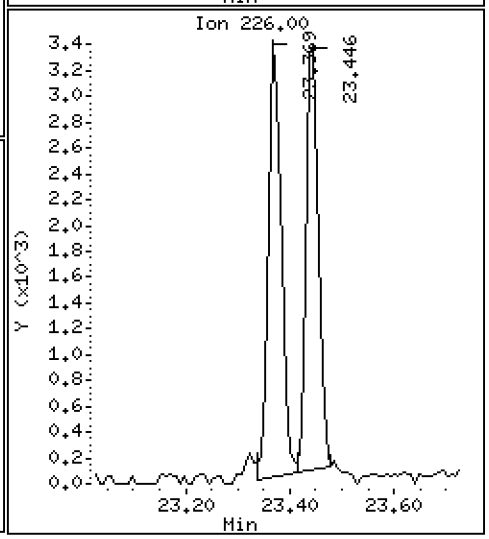












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

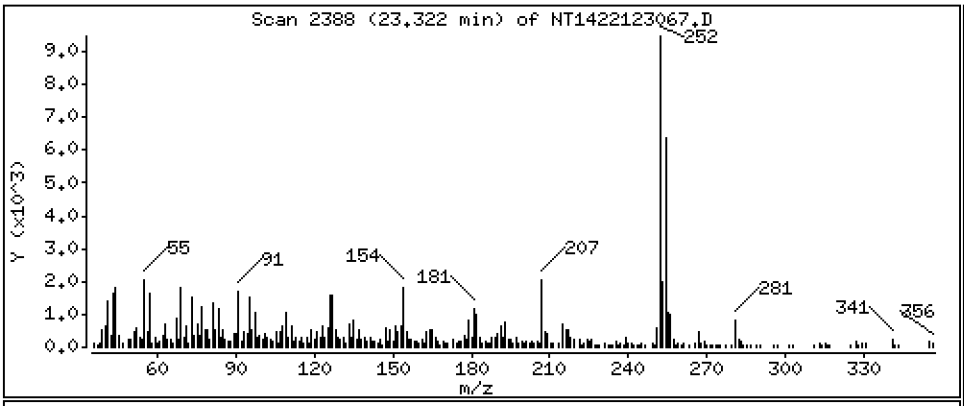
Operator: VTS

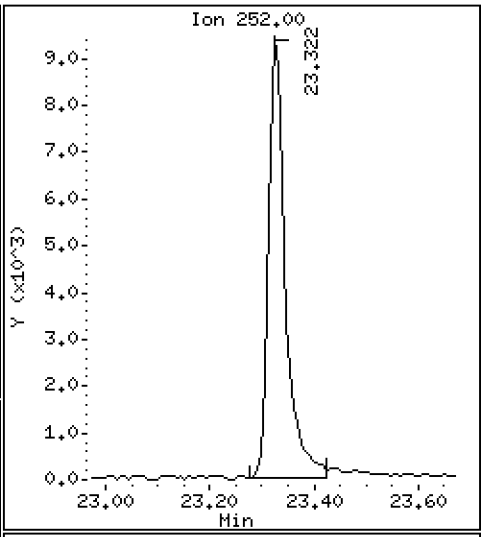
Column phase: ZB-5msi

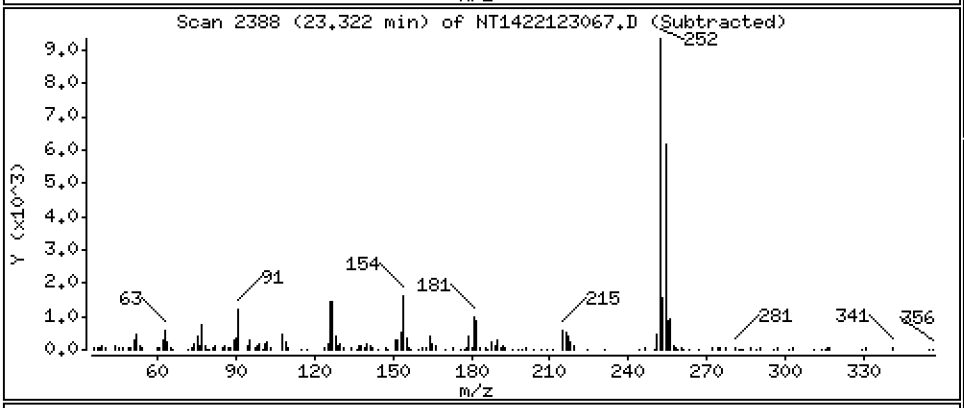
Column diameter: 0.25

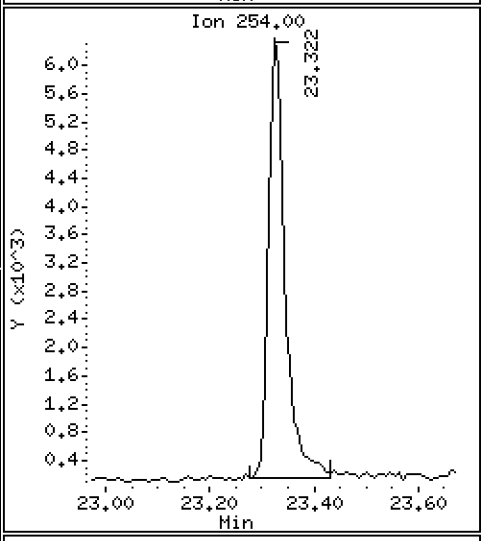
70 3,3'-Dichlorobenzidine

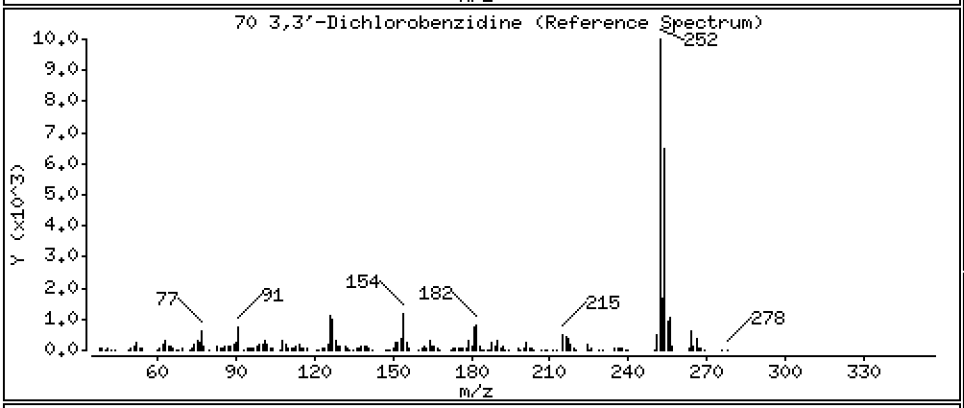
Concentration: 0.8193 ug/mL

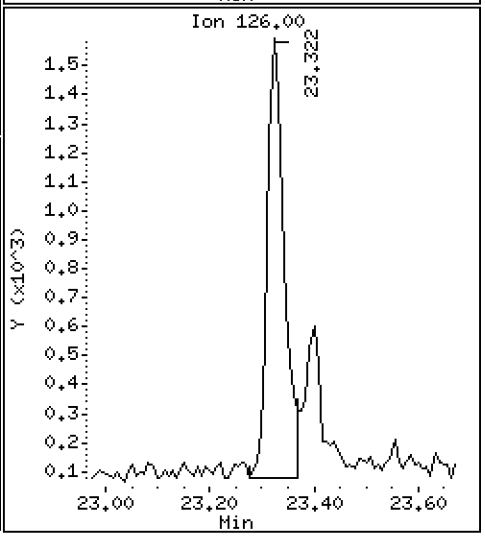


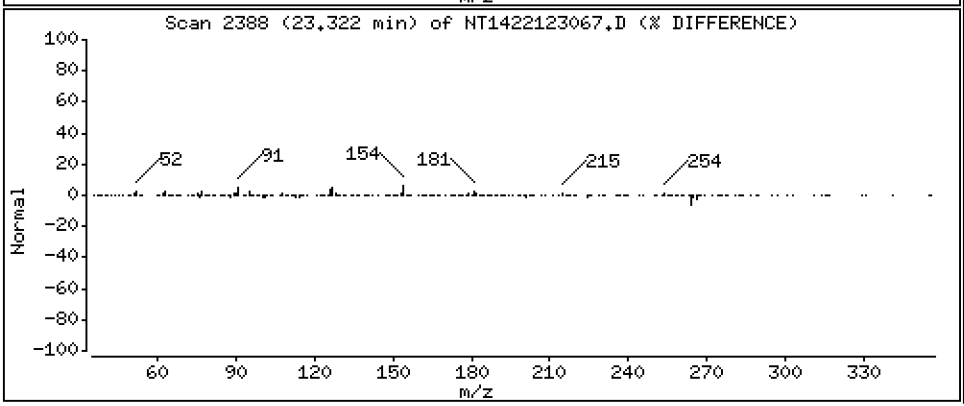












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

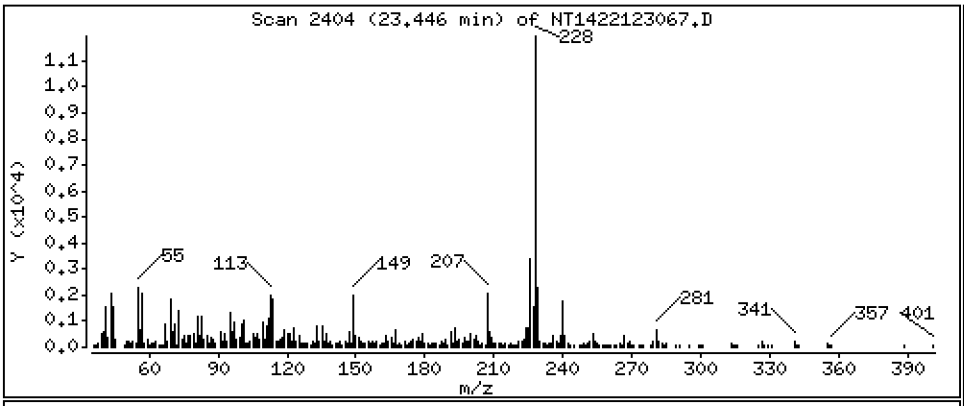
Operator: VTS

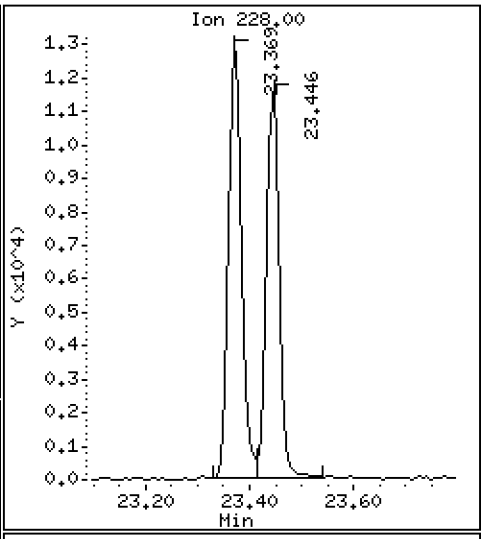
Column phase: ZB-5msi

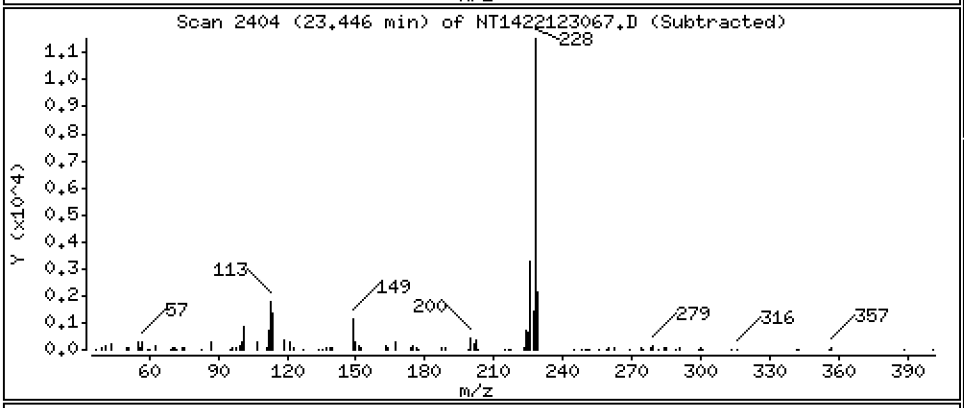
Column diameter: 0.25

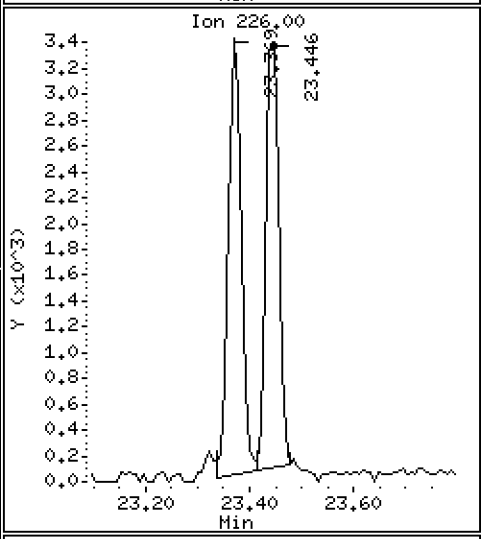
71 Chrysene

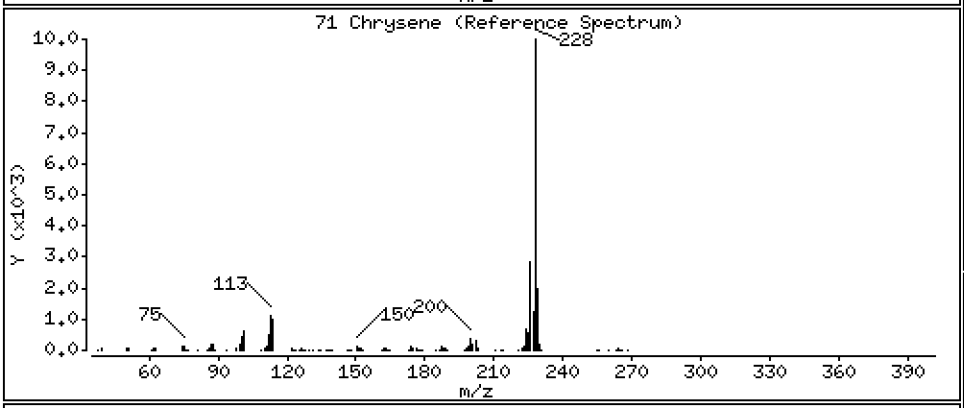
Concentration: 0.2429 ug/mL

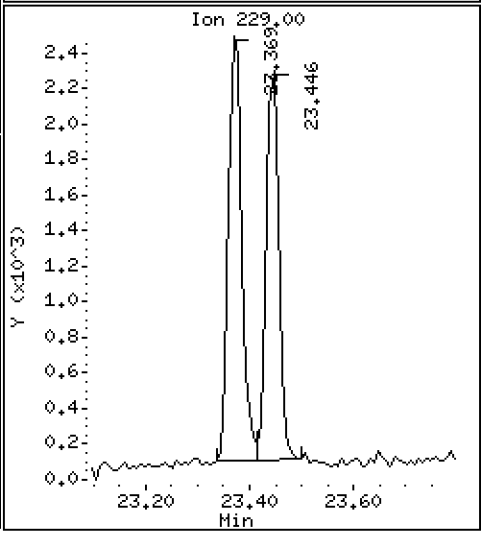


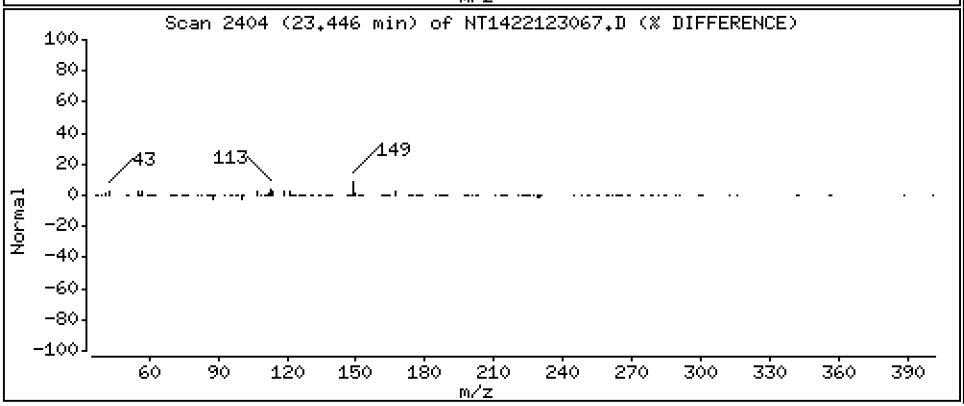












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

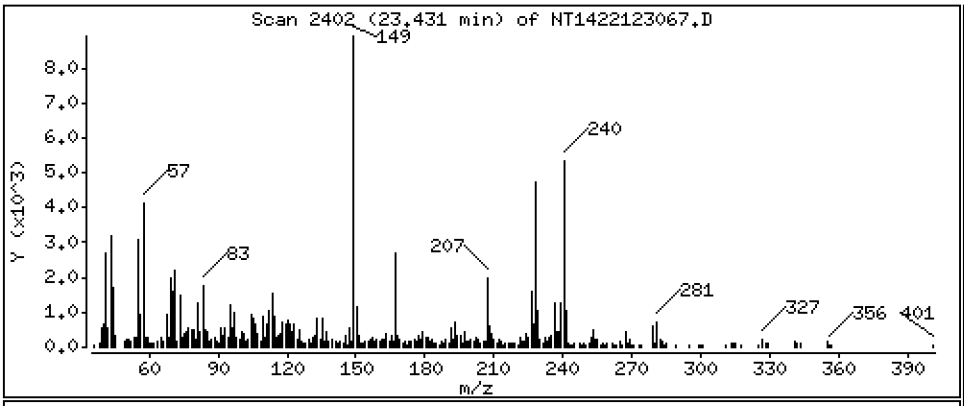
Operator: VTS

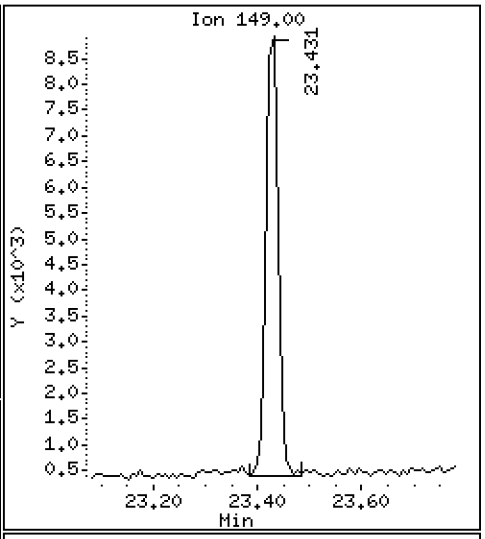
Column phase: ZB-5msi

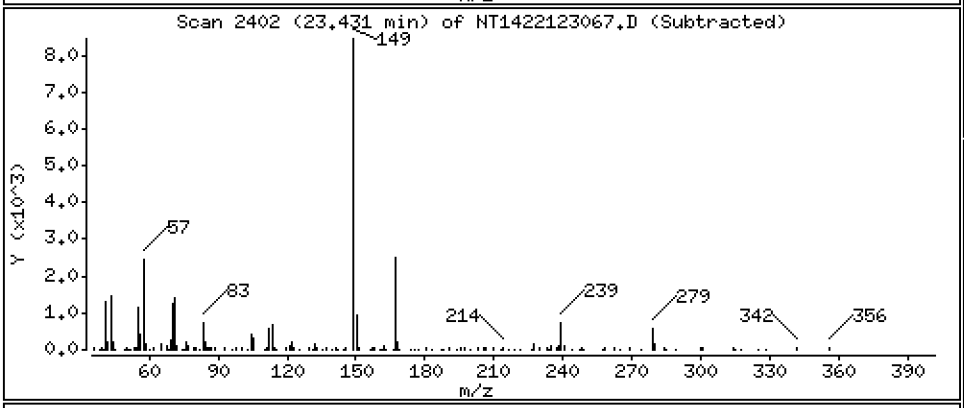
Column diameter: 0.25

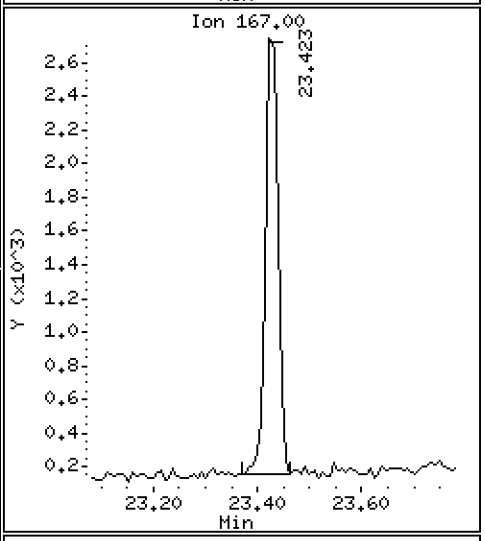
72 bis(2-Ethylhexyl)phthalate

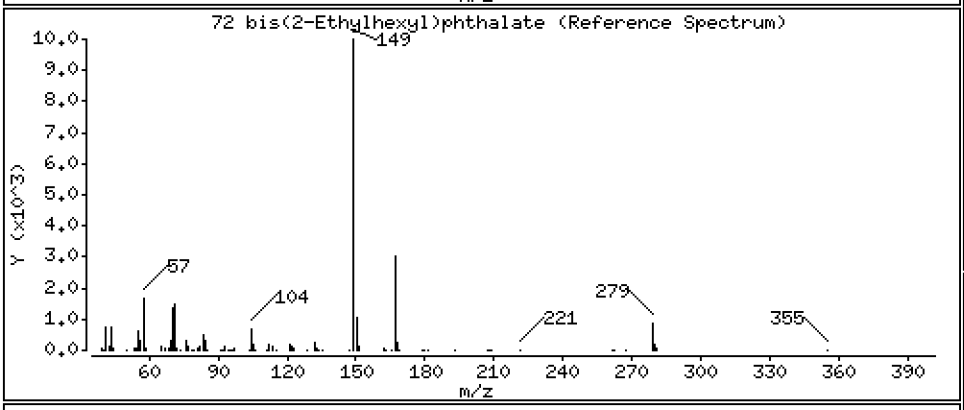
Concentration: 0.2611 ug/mL

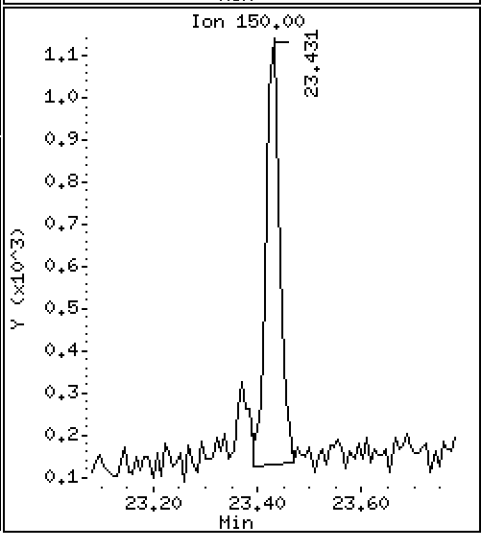


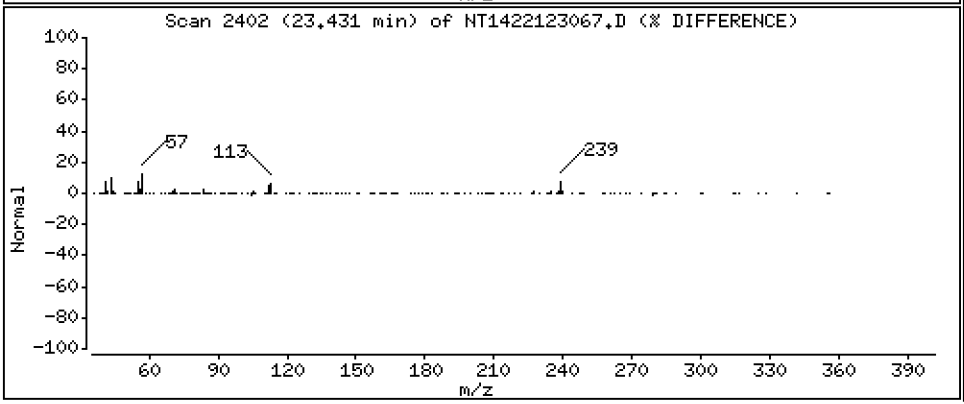












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

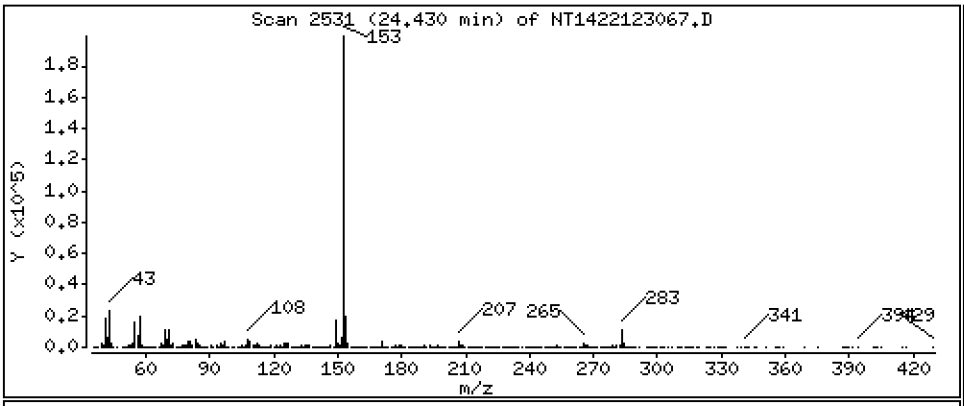
Operator: VTS

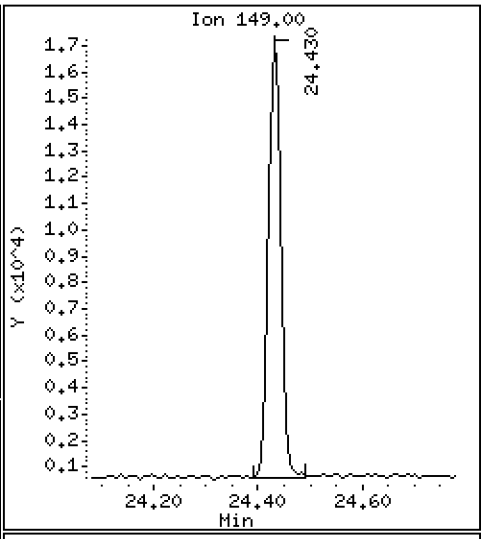
Column phase: ZB-5msi

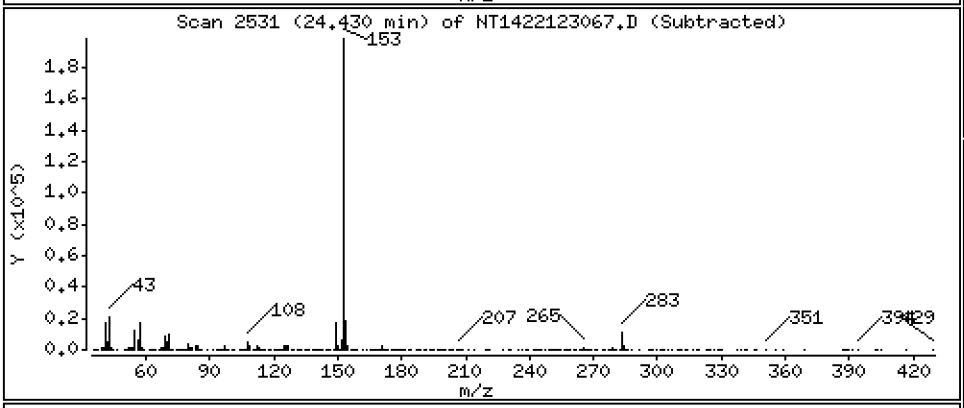
Column diameter: 0.25

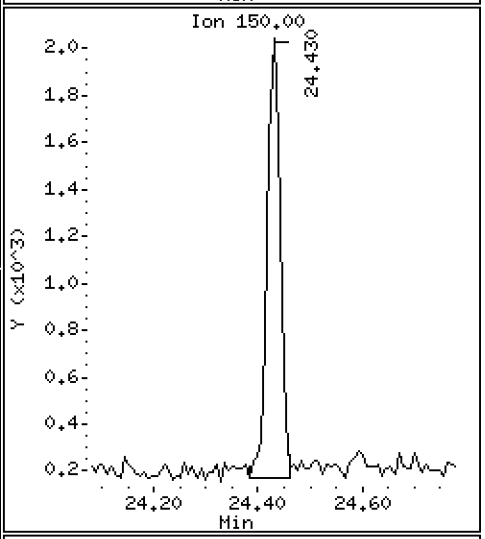
73 Di-n-octylphthalate

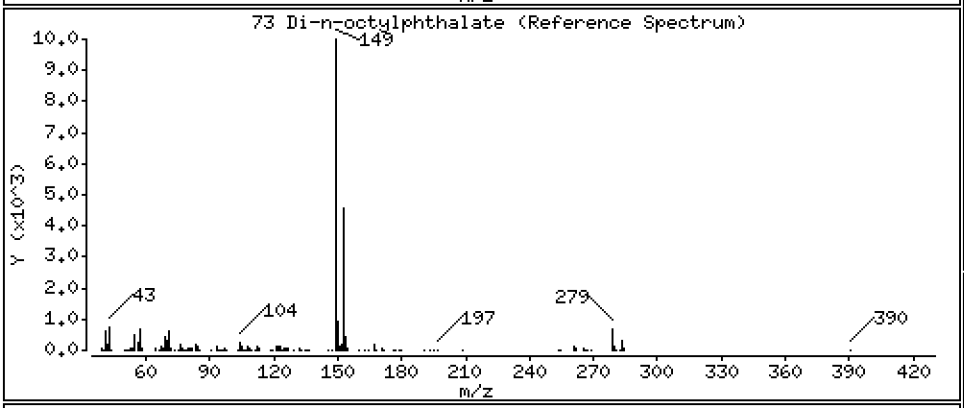
Concentration: 0.2459 ug/mL

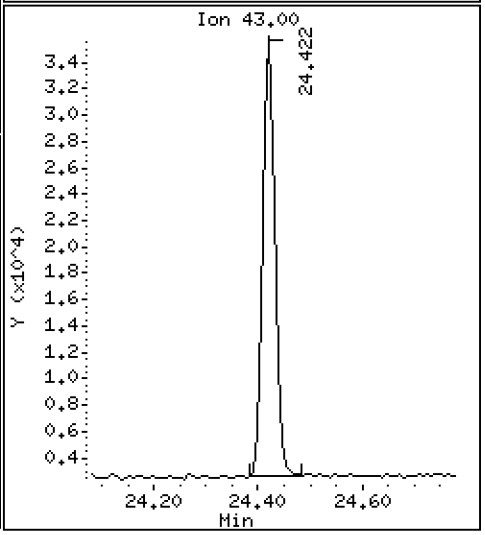


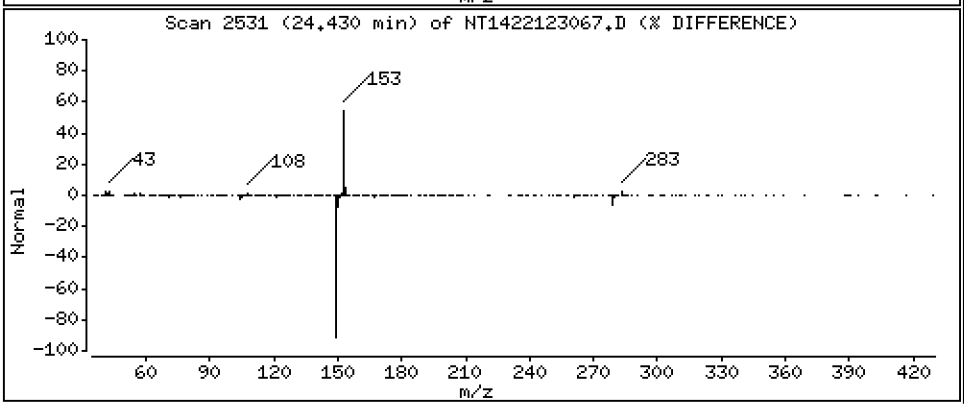












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

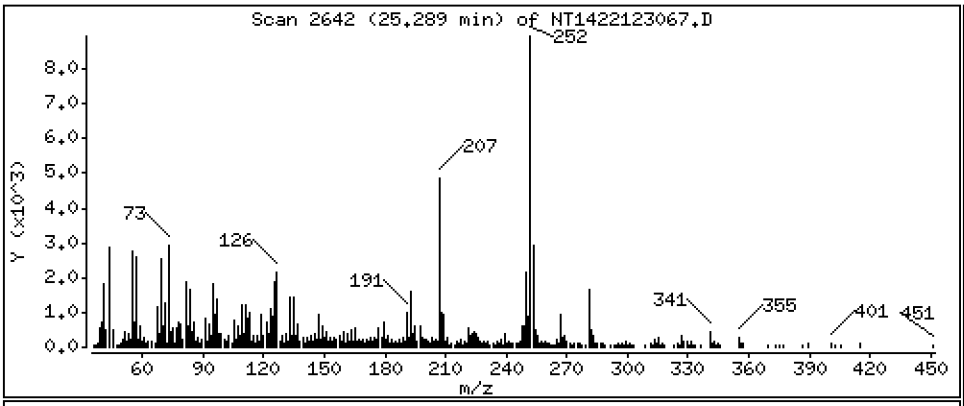
Operator: VTS

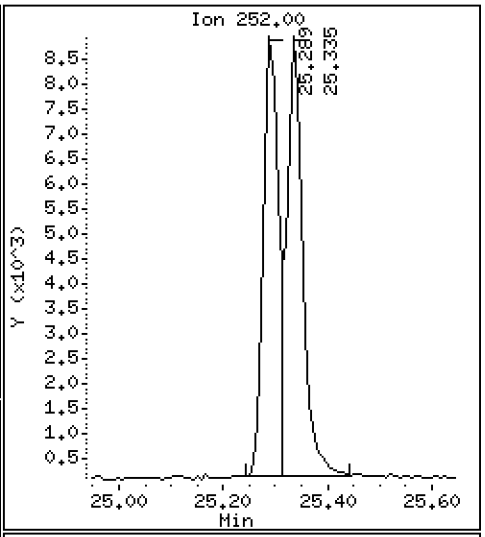
Column phase: ZB-5msi

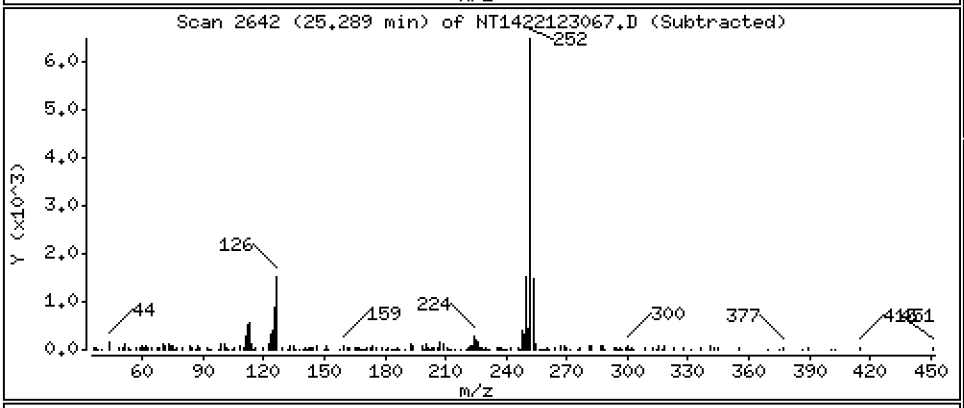
Column diameter: 0.25

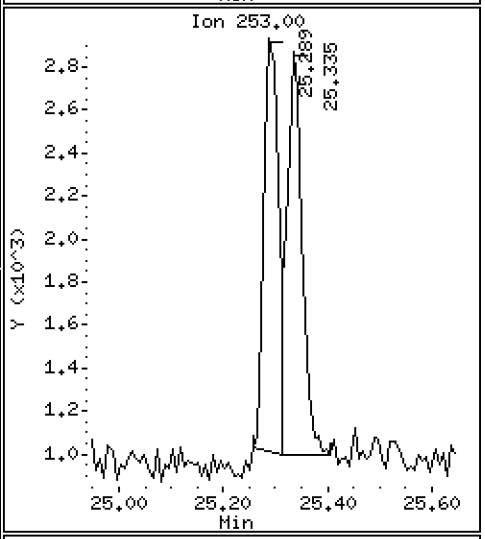
74 Benzo(b)fluoranthene

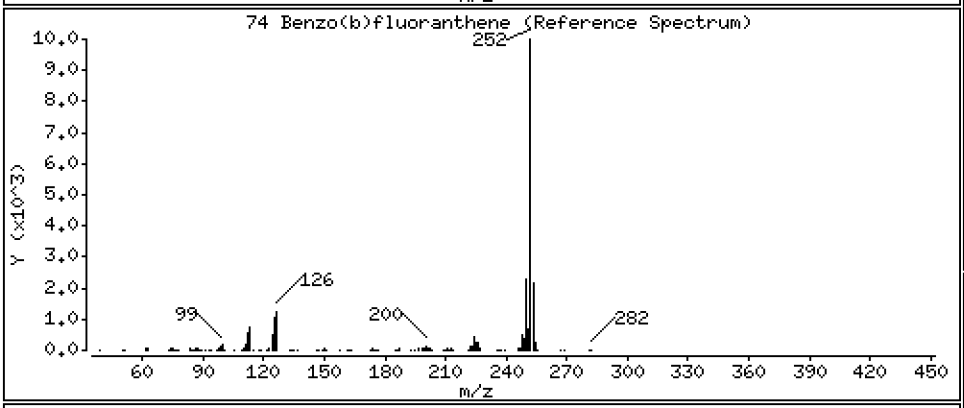
Concentration: 0.2414 ug/mL

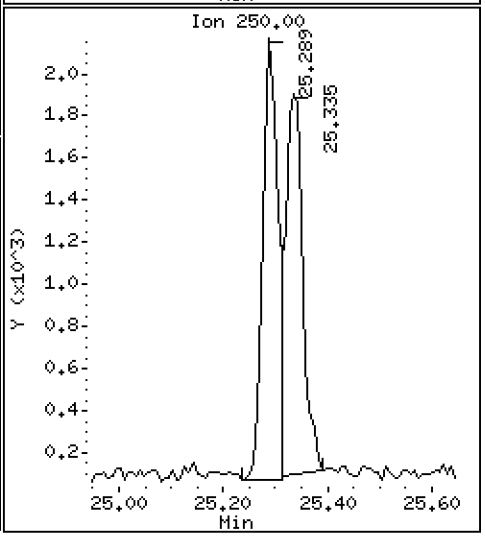


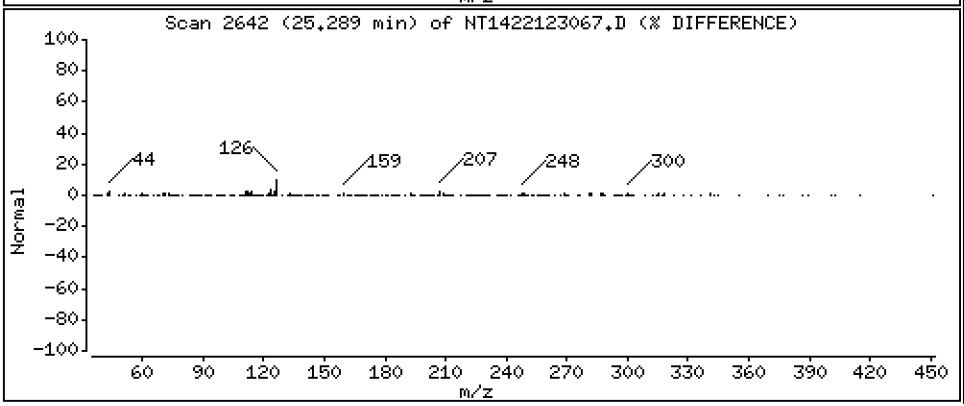












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

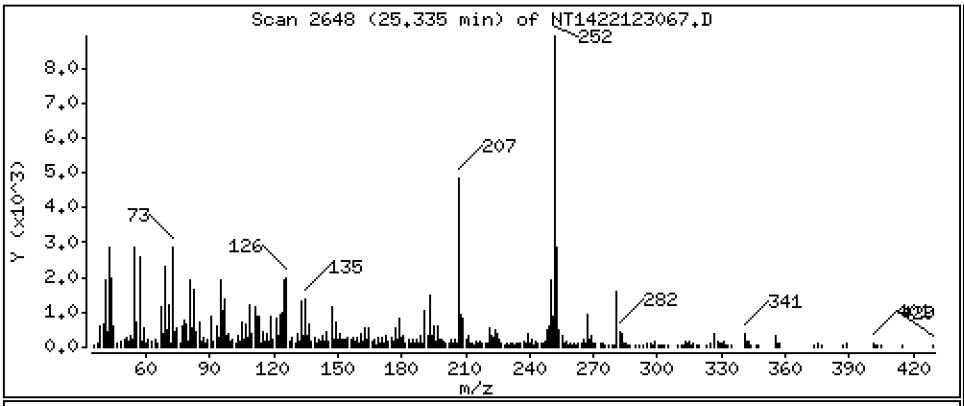
Operator: VTS

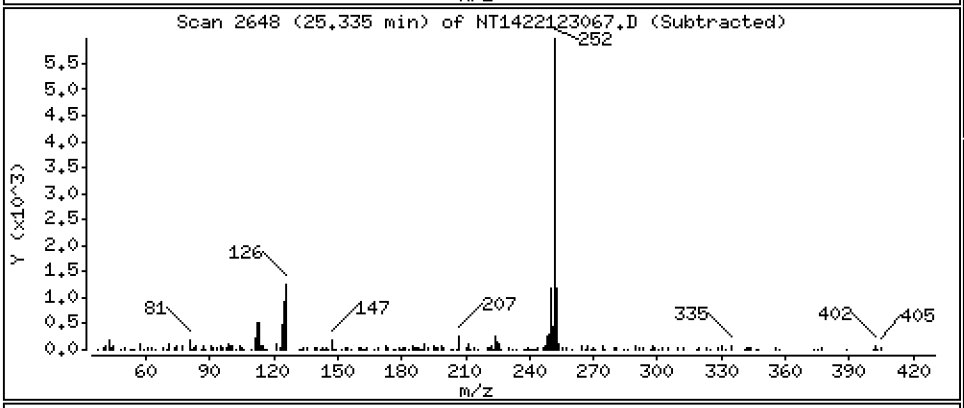
Column phase: ZB-5msi

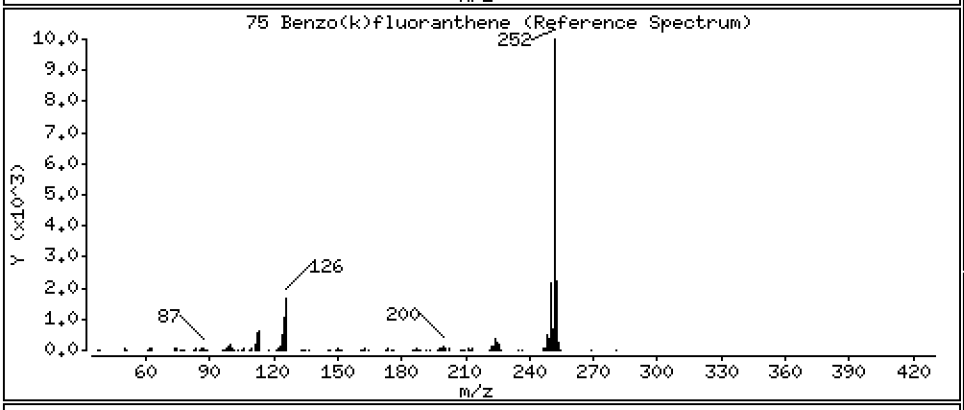
Column diameter: 0.25

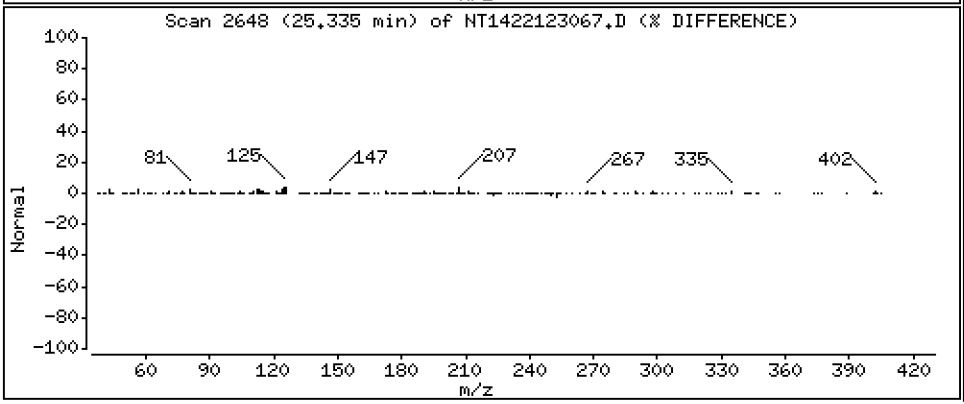
75 Benzo(k)fluoranthene

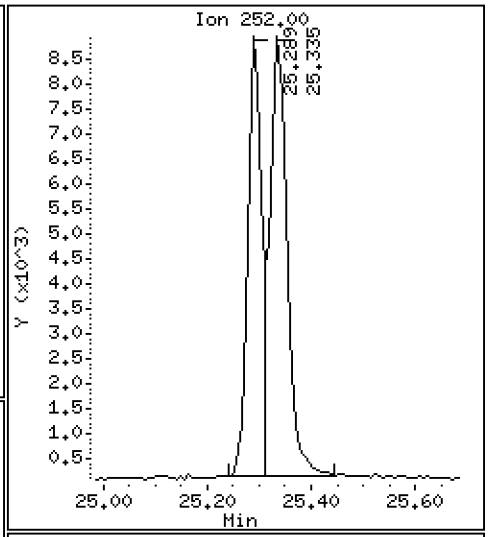
Concentration: 0.2810 ug/mL

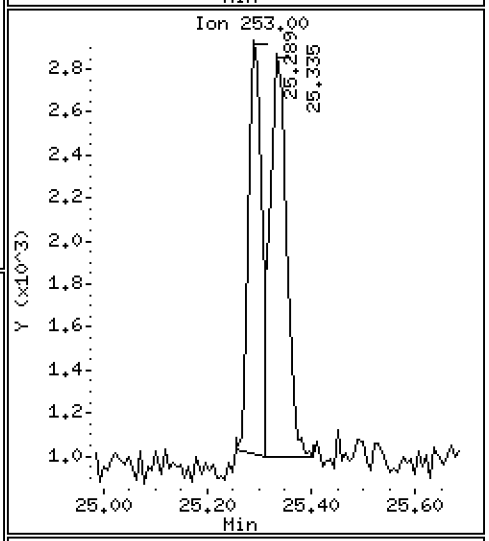


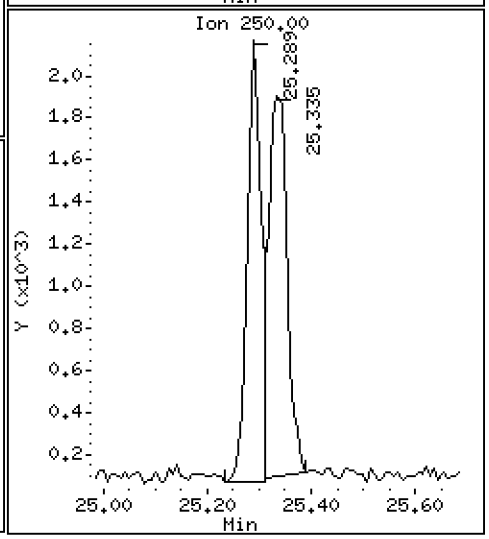












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

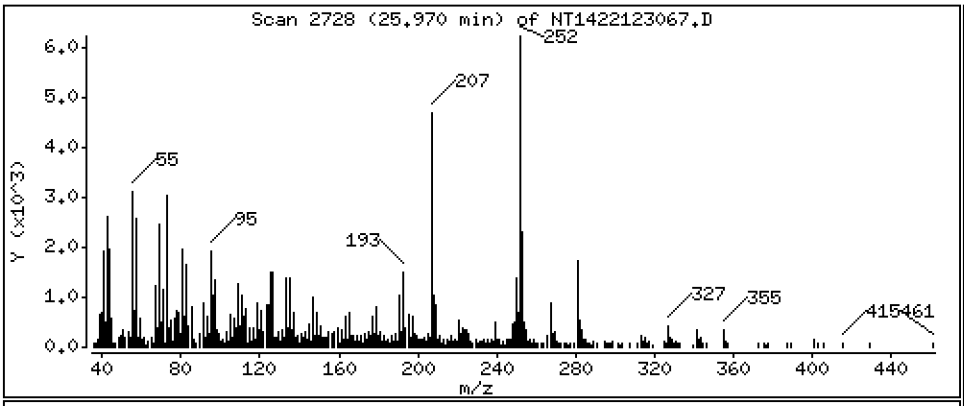
Operator: VTS

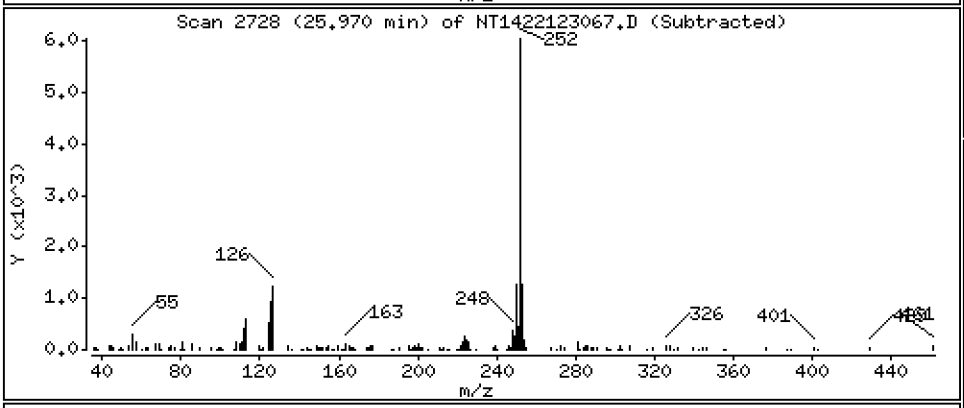
Column phase: ZB-5msi

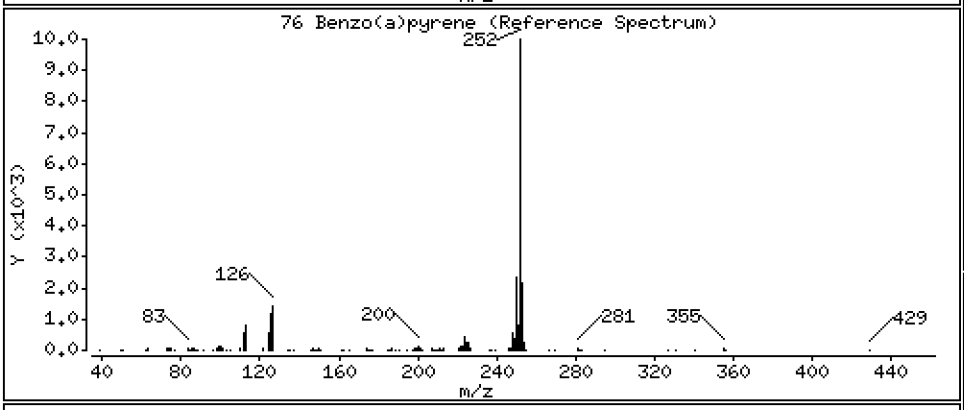
Column diameter: 0.25

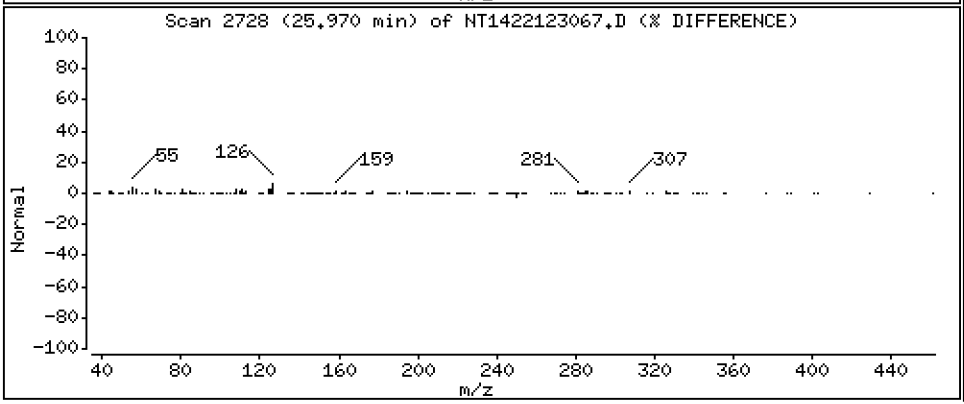
76 Benzo(a)pyrene

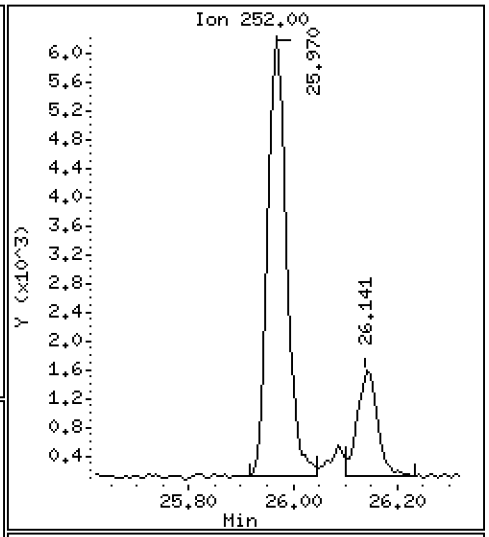
Concentration: 0.2524 ug/mL

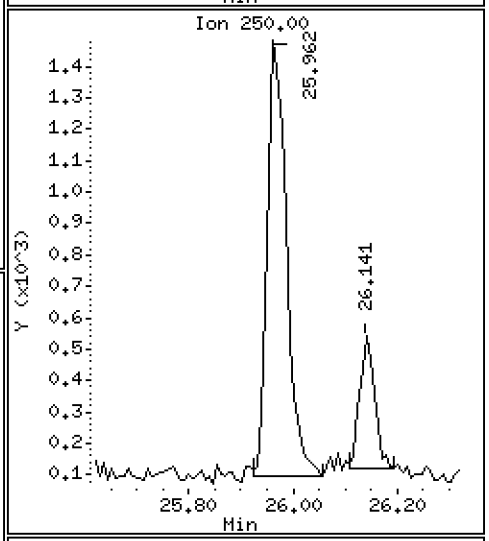


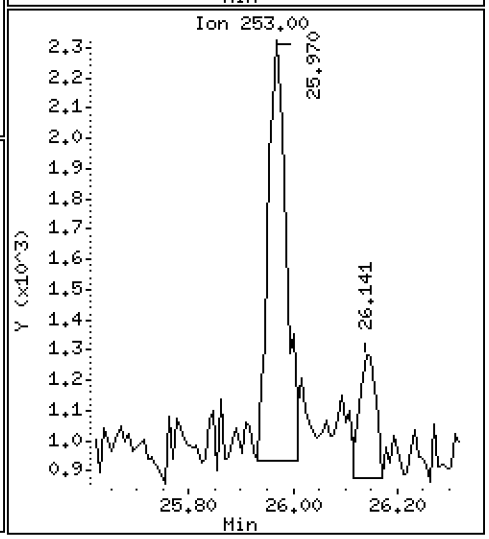












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

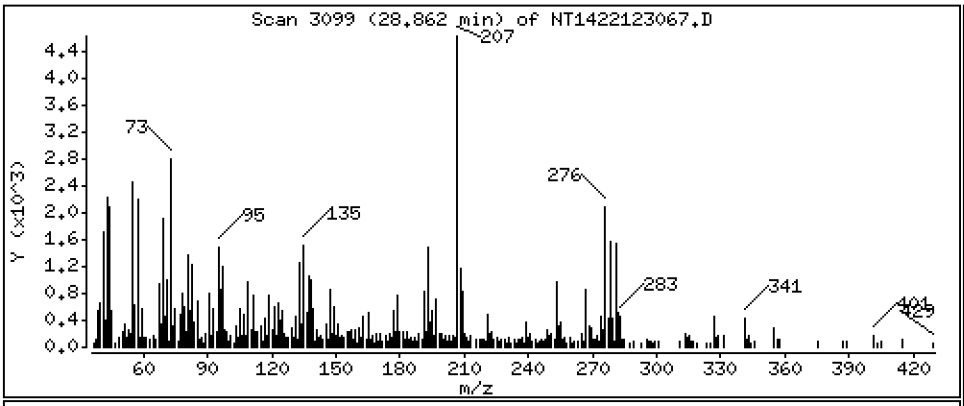
Operator: VTS

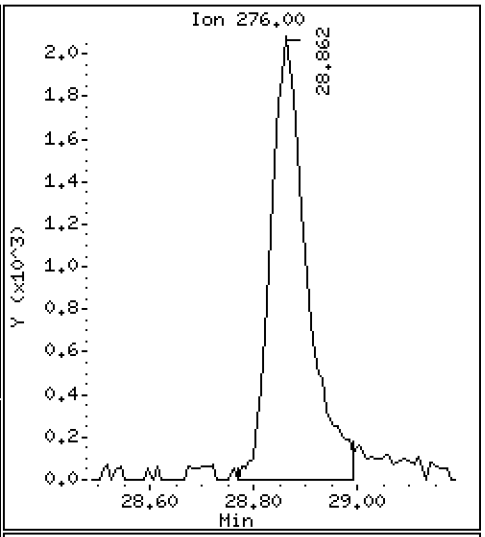
Column phase: ZB-5msi

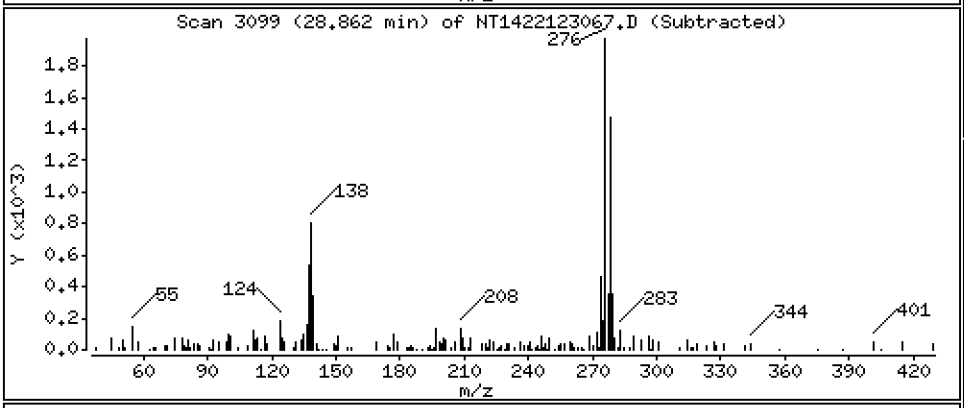
Column diameter: 0.25

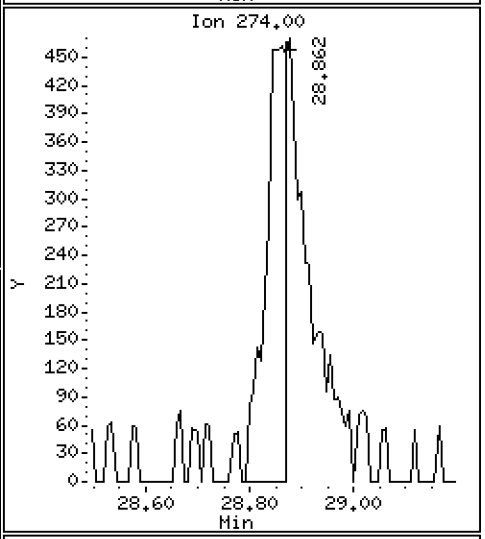
78 Indeno(1,2,3-cd)pyrene

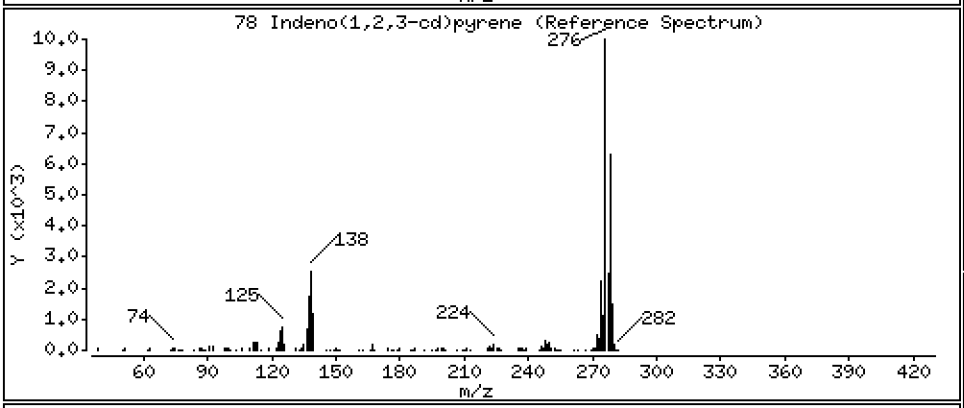
Concentration: 0.1494 ug/mL

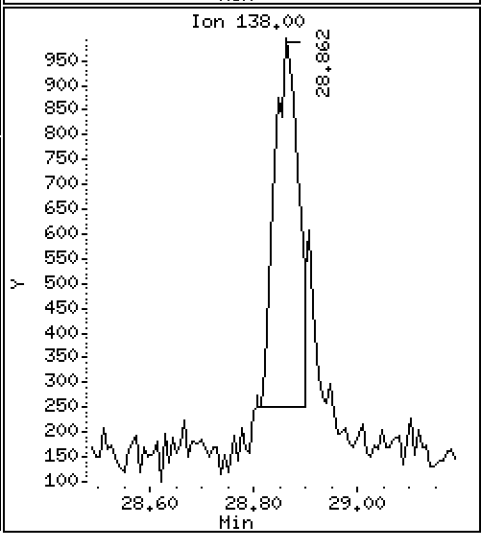


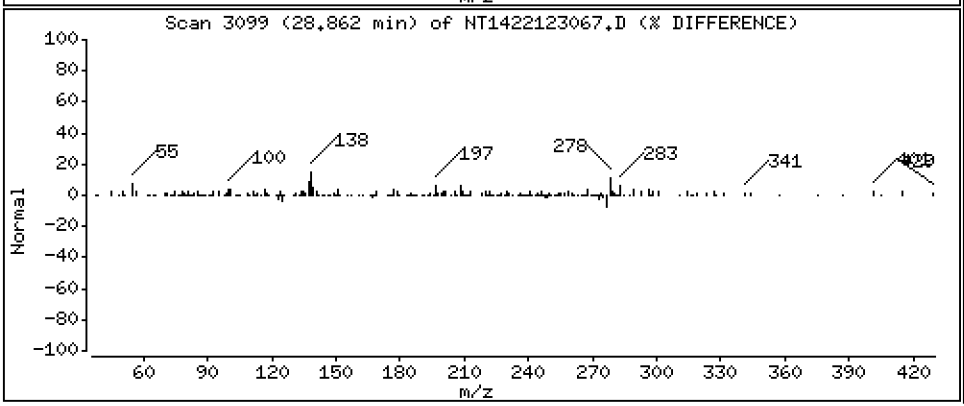












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

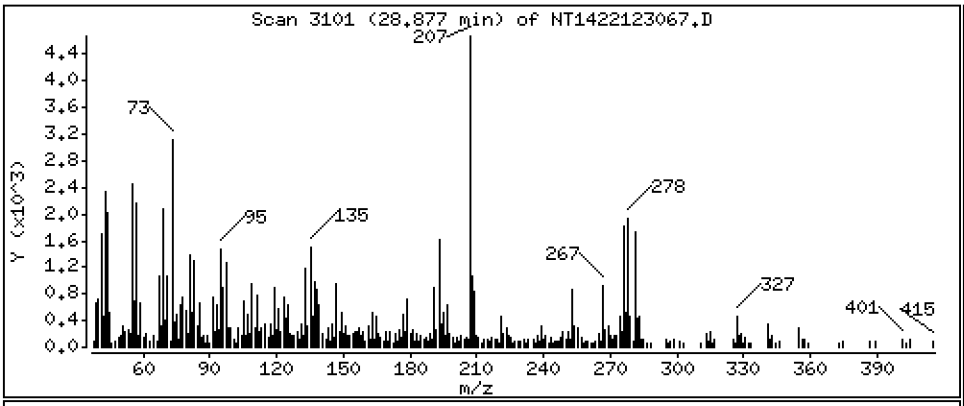
Operator: VTS

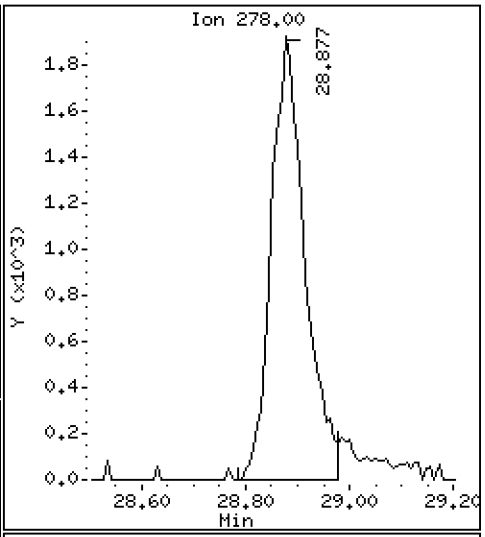
Column phase: ZB-5msi

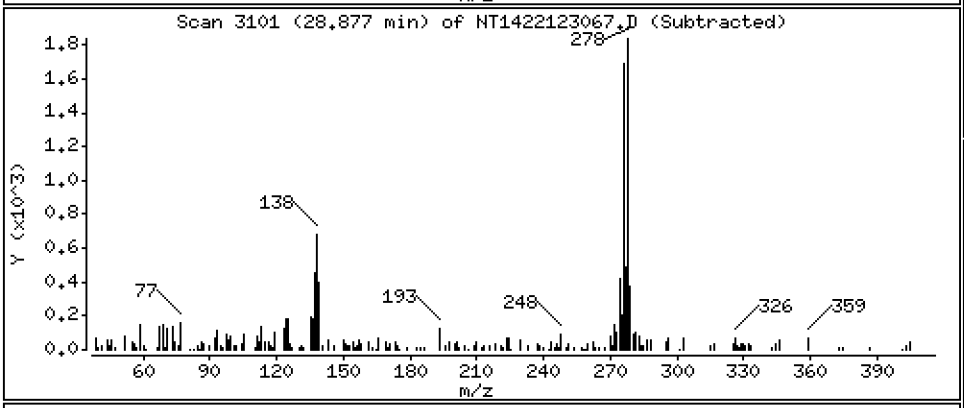
Column diameter: 0.25

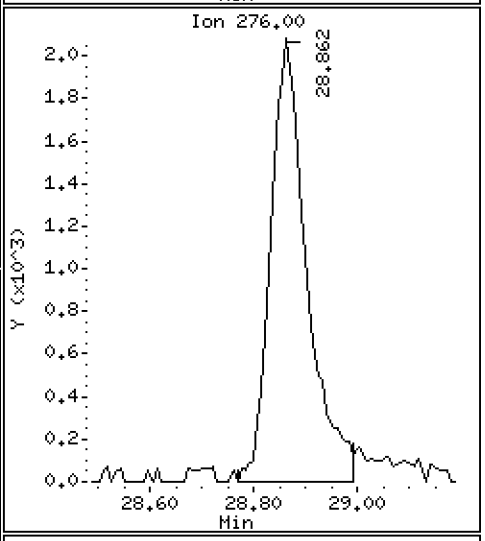
79 Dibenzo(a,h)anthracene

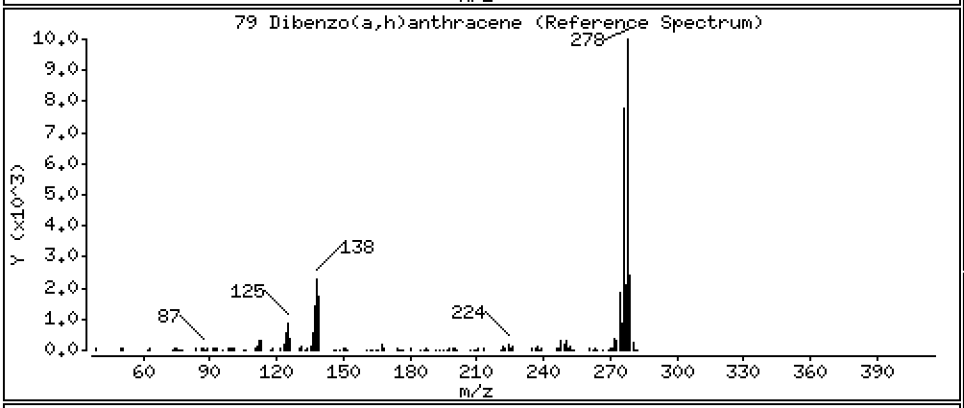
Concentration: 0.1509 ug/mL

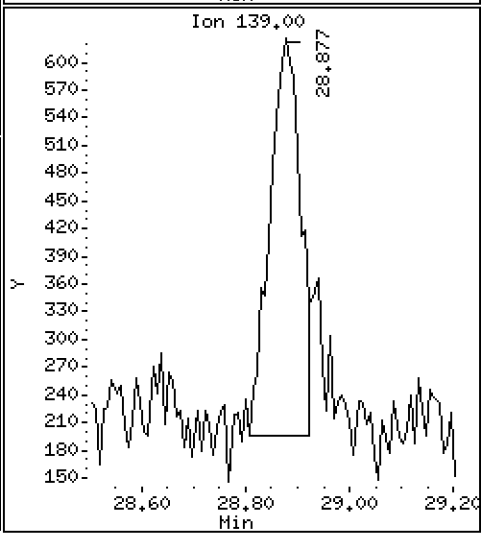


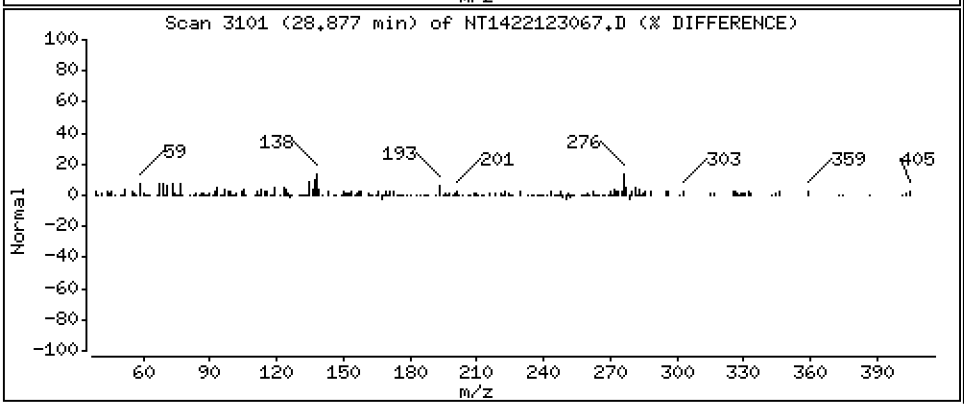












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

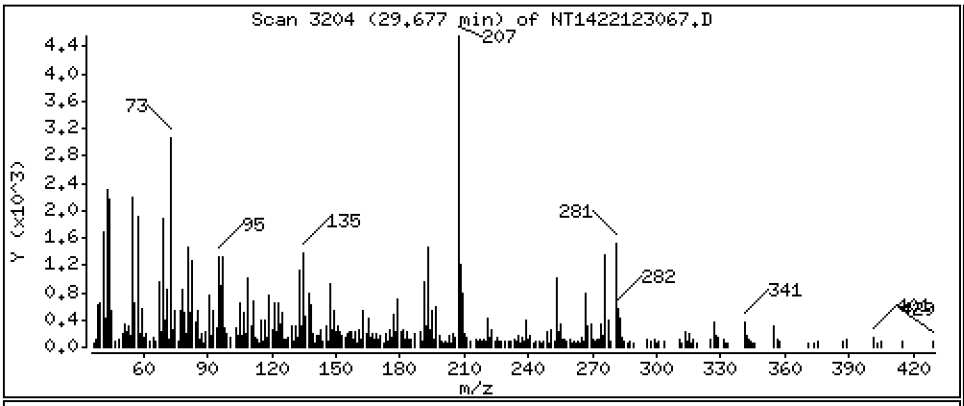
Operator: VTS

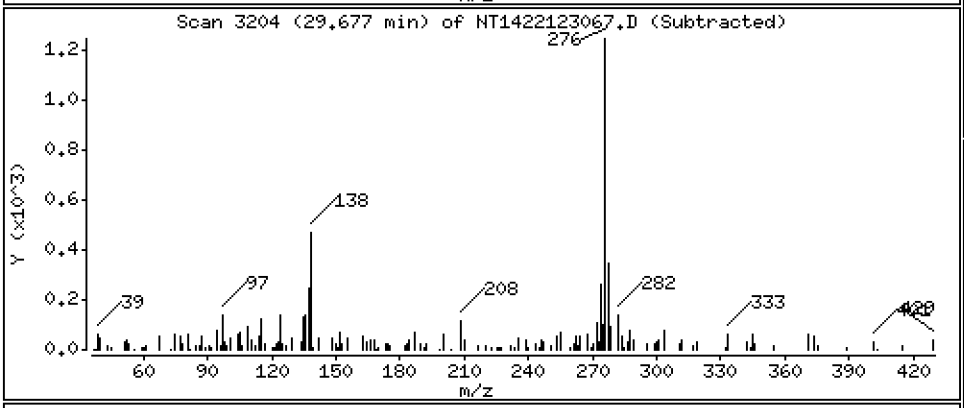
Column phase: ZB-5msi

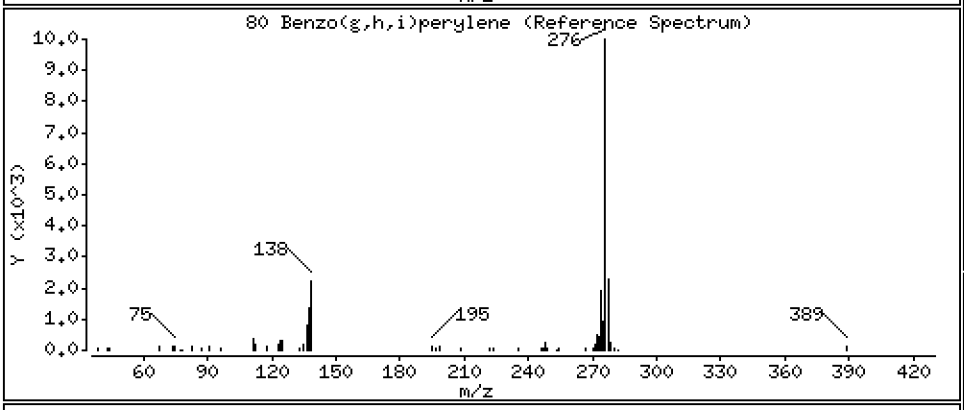
Column diameter: 0.25

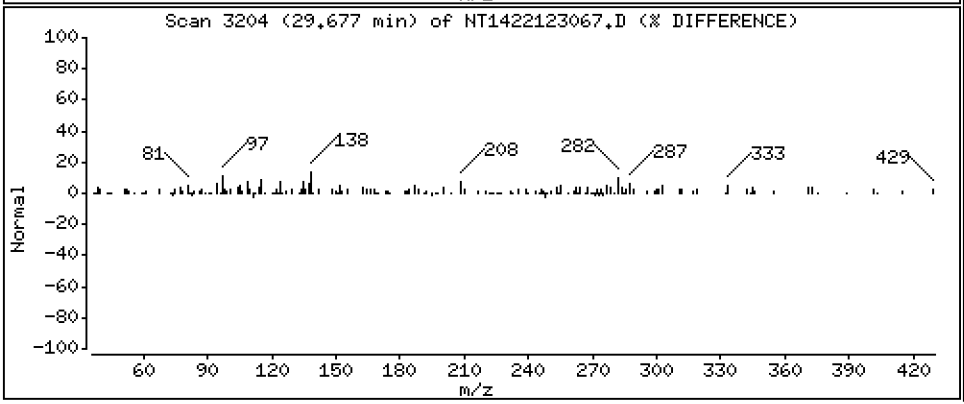
80 Benzo(g,h,i)perylene

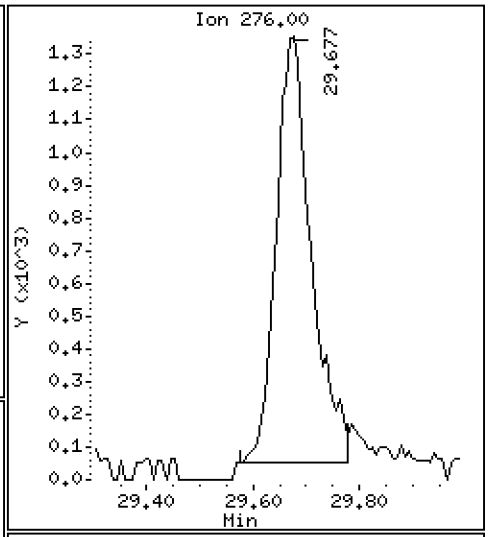
Concentration: 0.1058 ug/mL

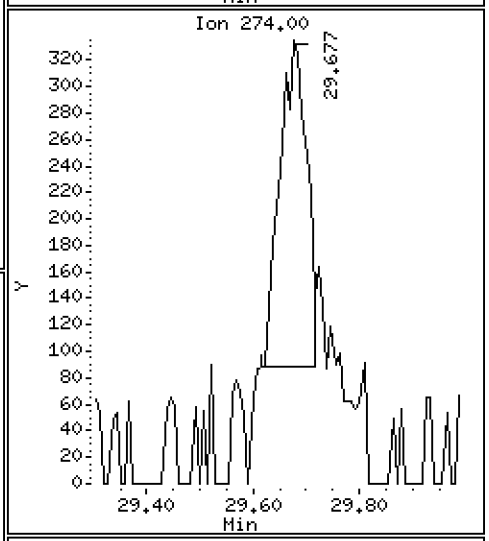


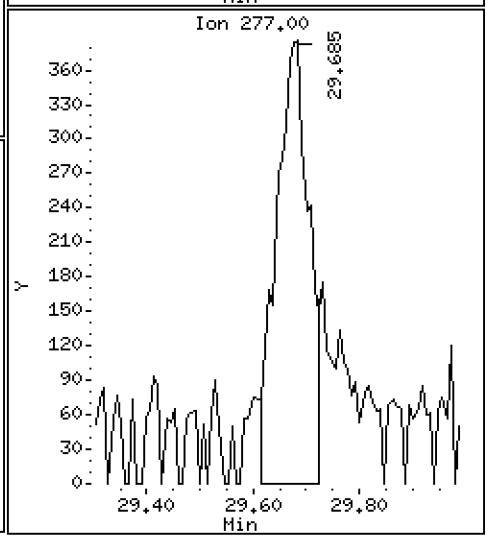












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

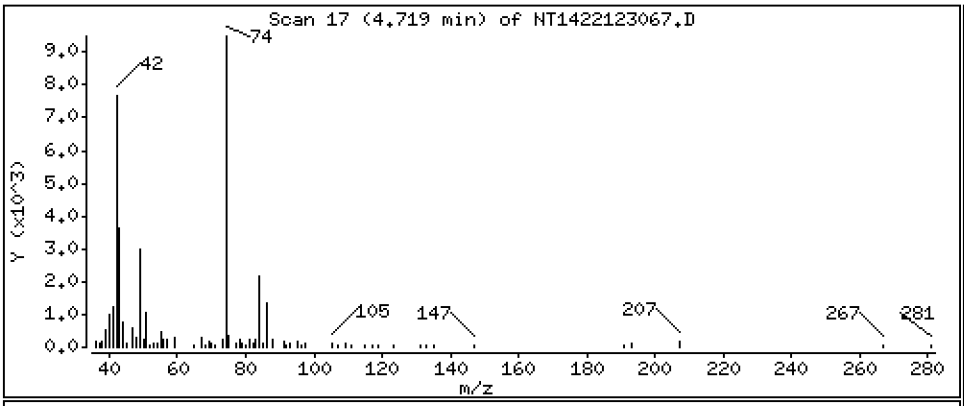
Operator: VTS

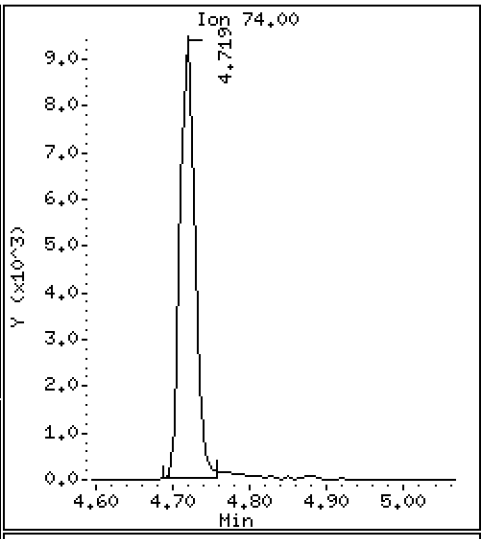
Column phase: ZB-5msi

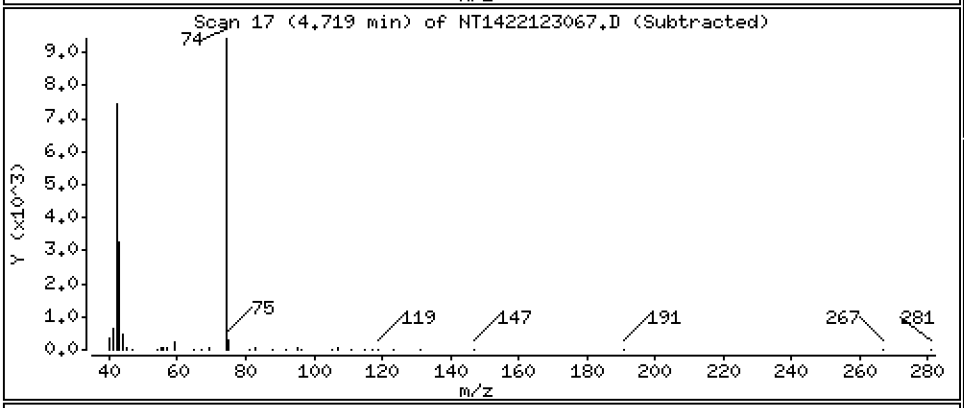
Column diameter: 0.25

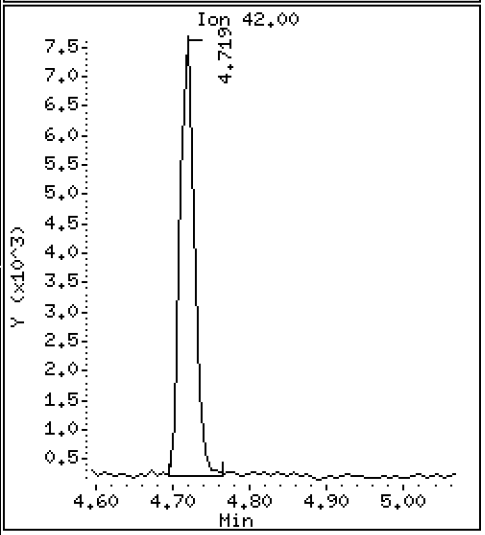
90 N-Nitrosodimethylamine

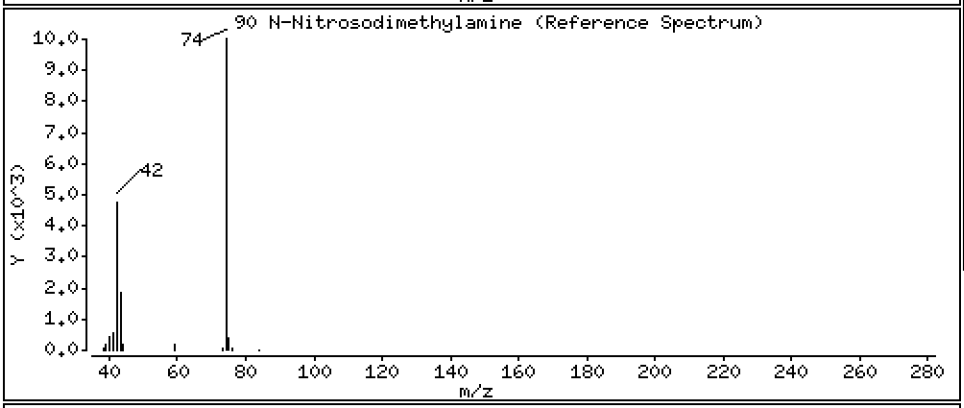
Concentration: 0.4928 ug/mL

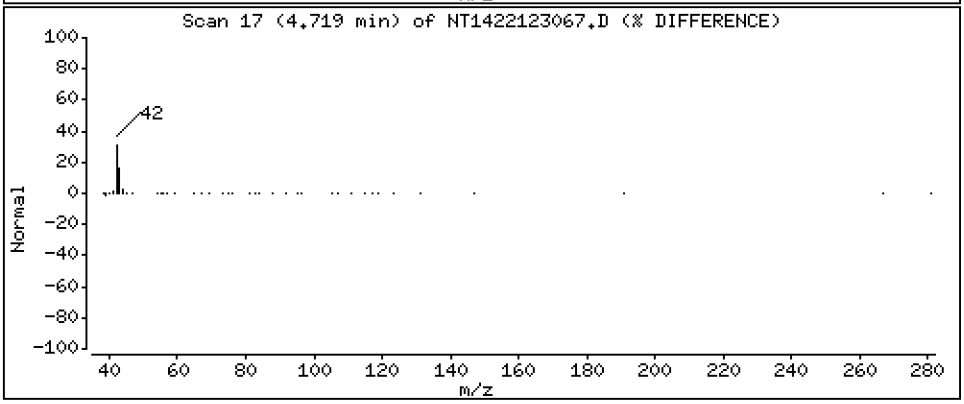












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

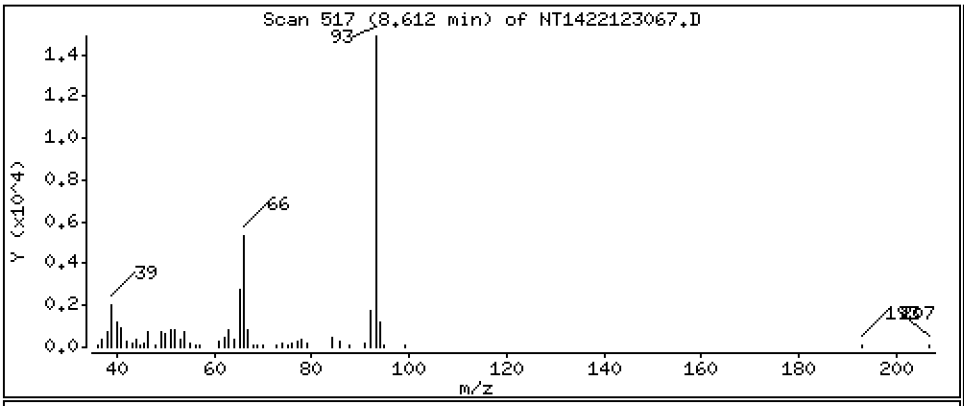
Operator: VTS

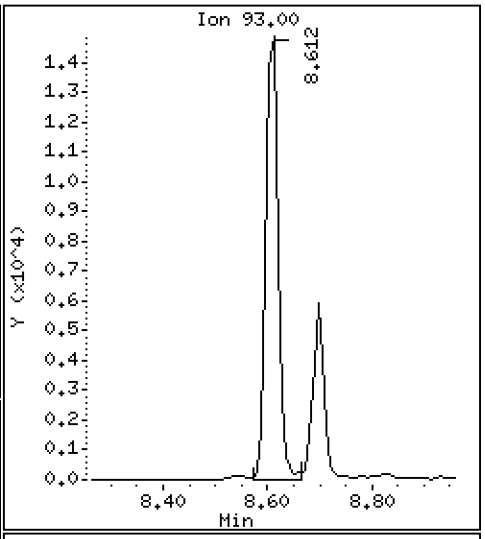
Column phase: ZB-5msi

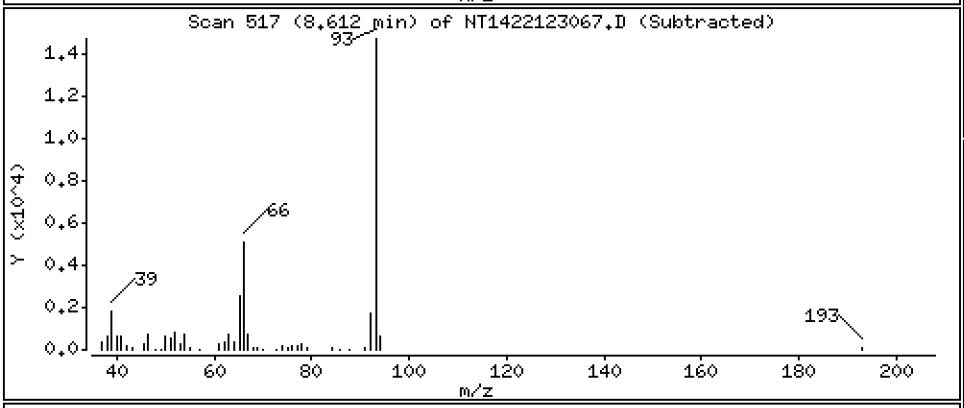
Column diameter: 0.25

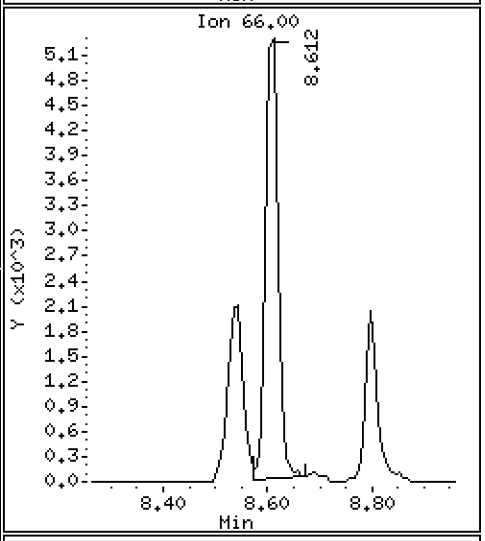
91 Aniline

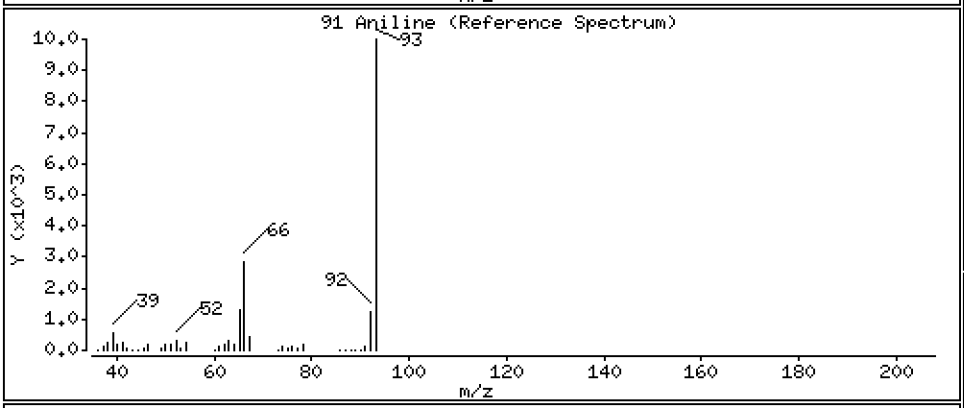
Concentration: 0.4840 ug/mL

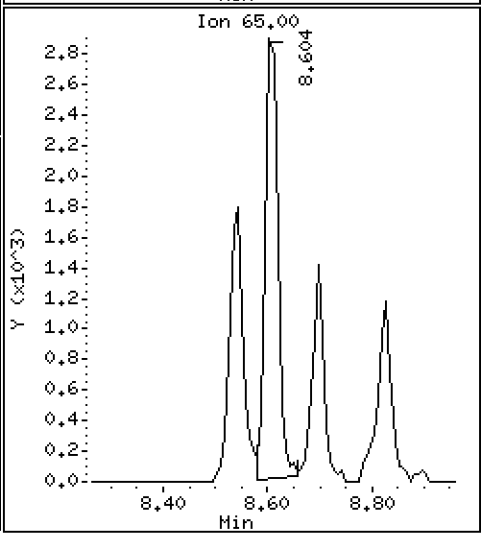


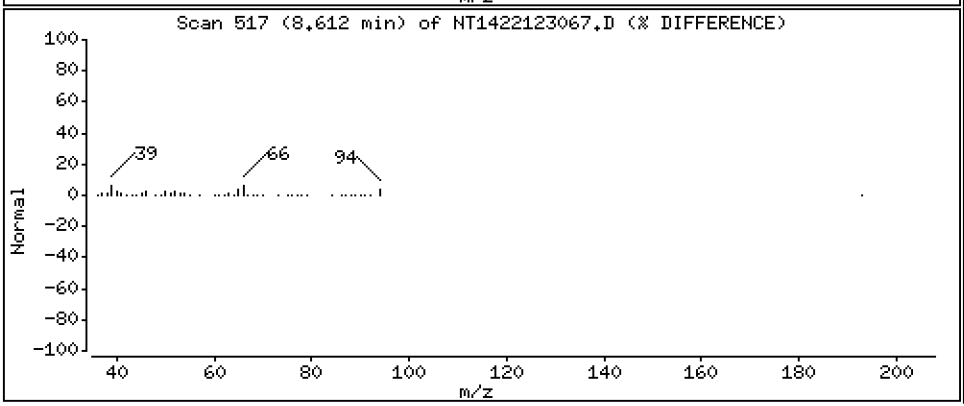












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

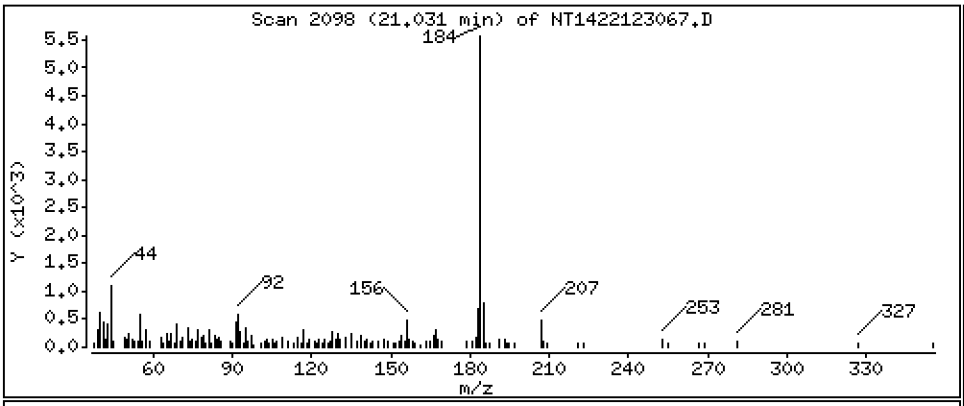
Operator: VTS

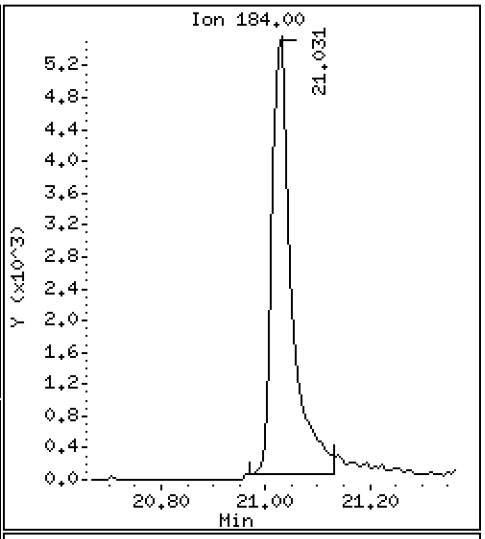
Column phase: ZB-5msi

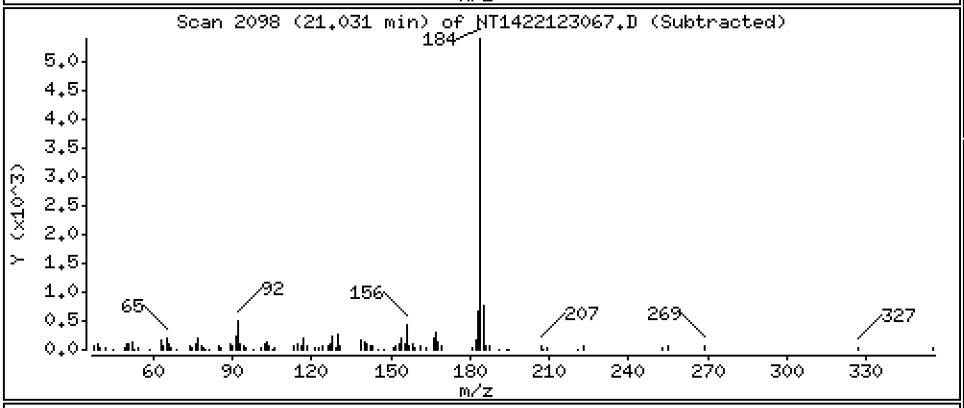
Column diameter: 0.25

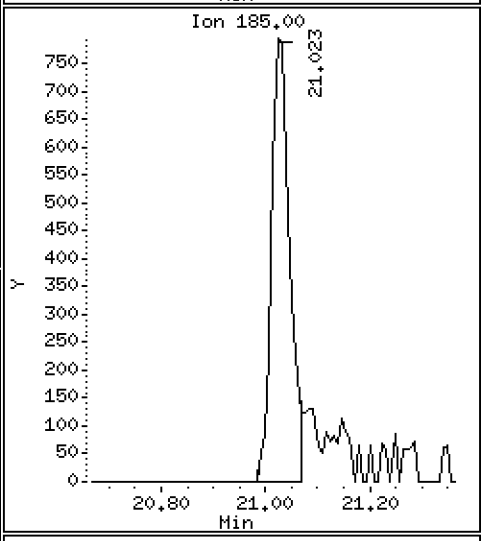
93 Benzidine

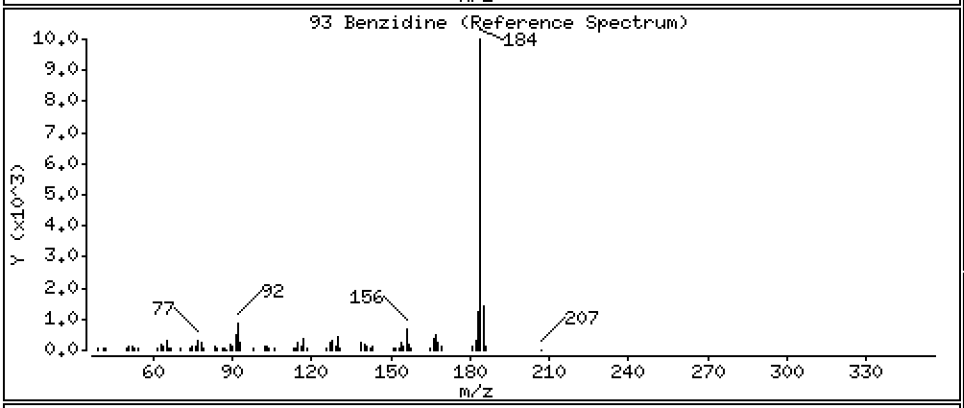
Concentration: 0.4312 ug/mL

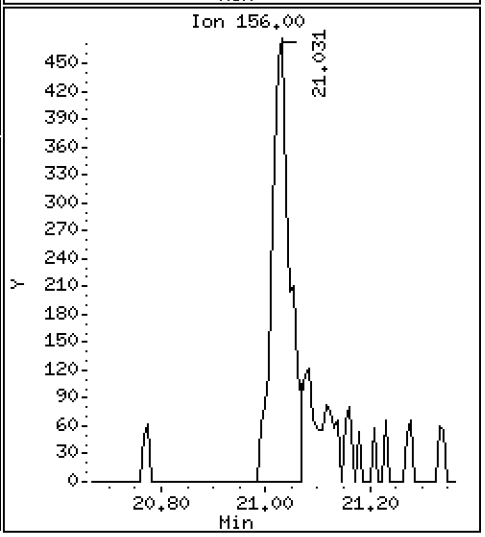


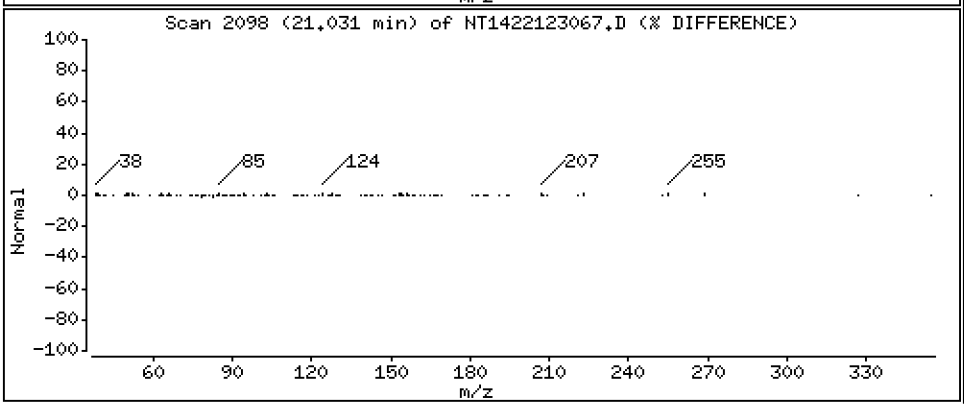












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

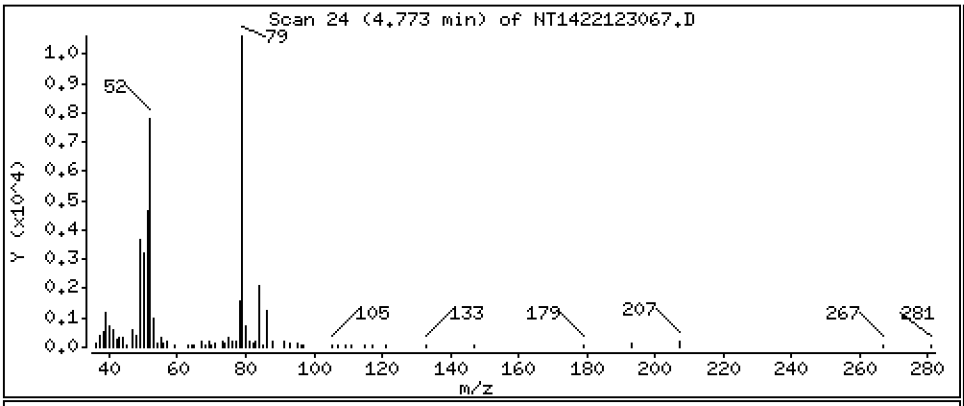
Operator: VTS

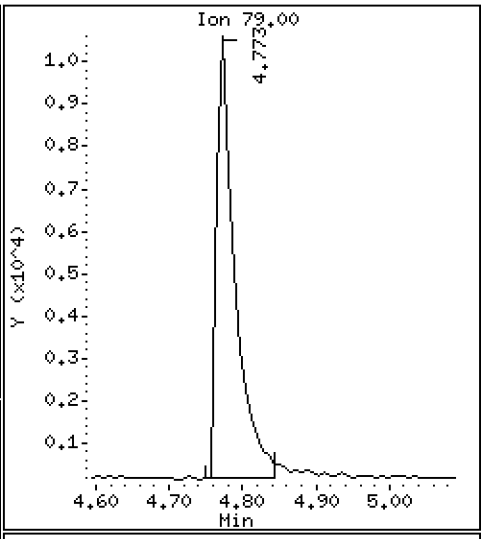
Column phase: ZB-5msi

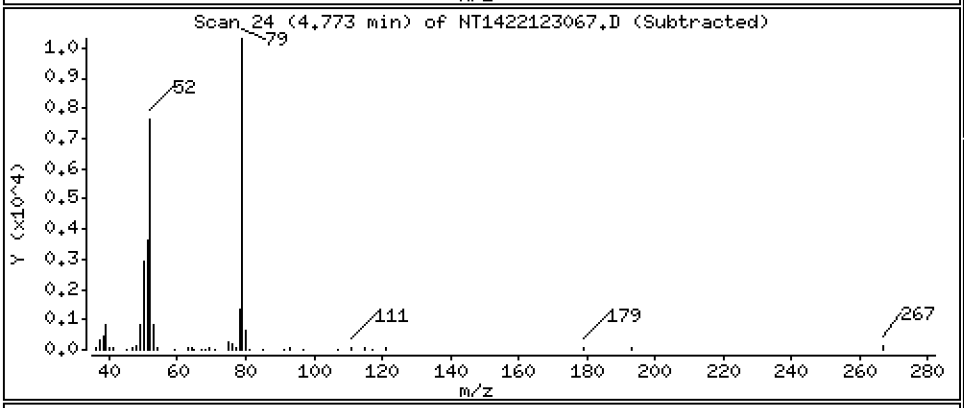
Column diameter: 0.25

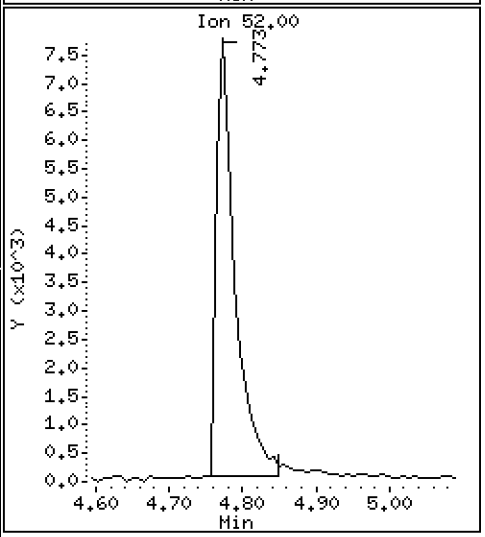
103 Pyridine

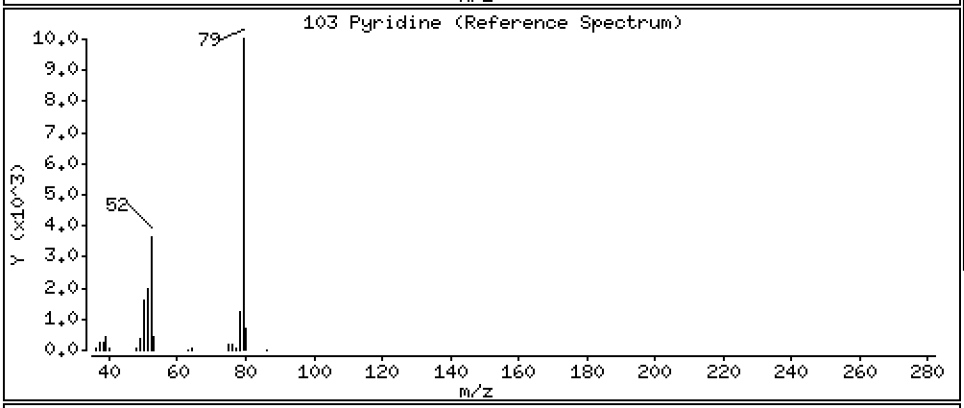
Concentration: 0.2348 ug/mL

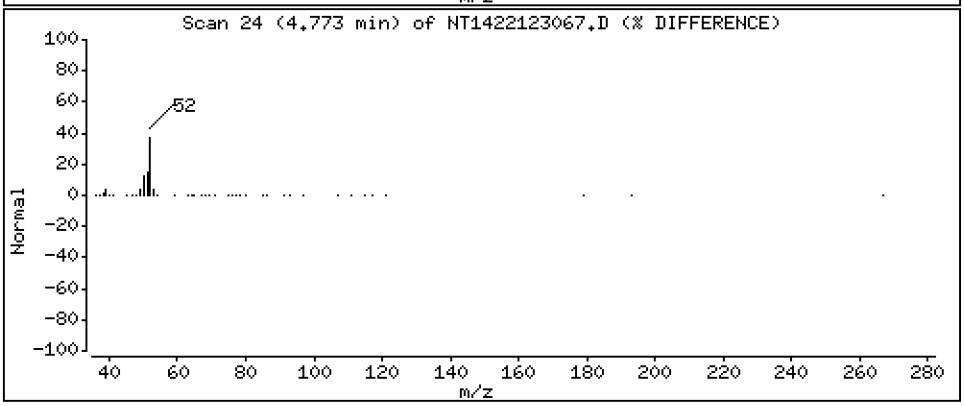












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

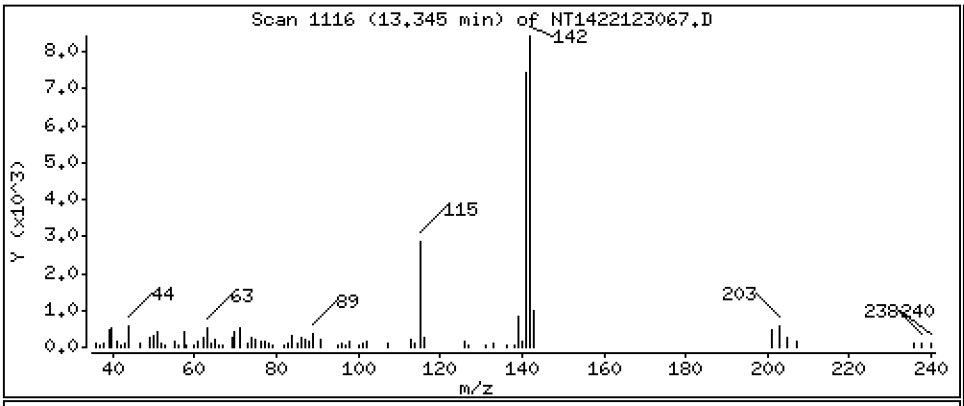
Operator: VTS

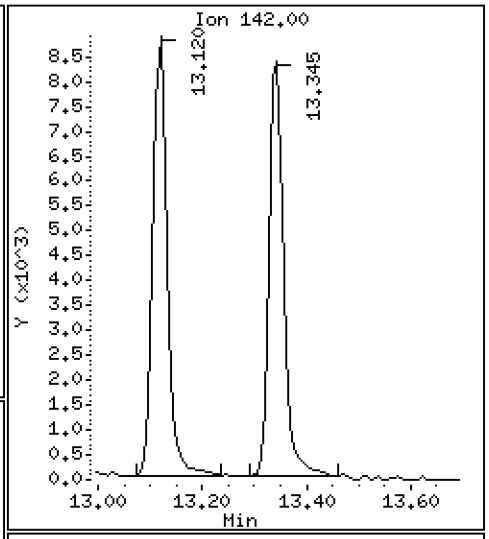
Column phase: ZB-5msi

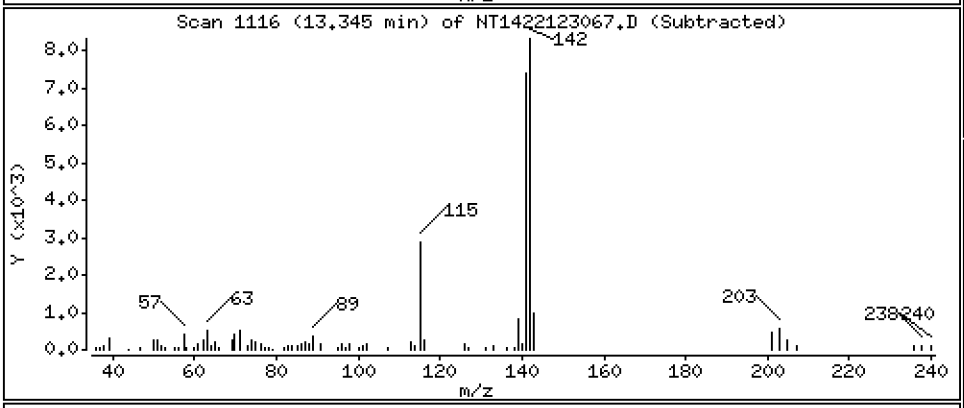
Column diameter: 0.25

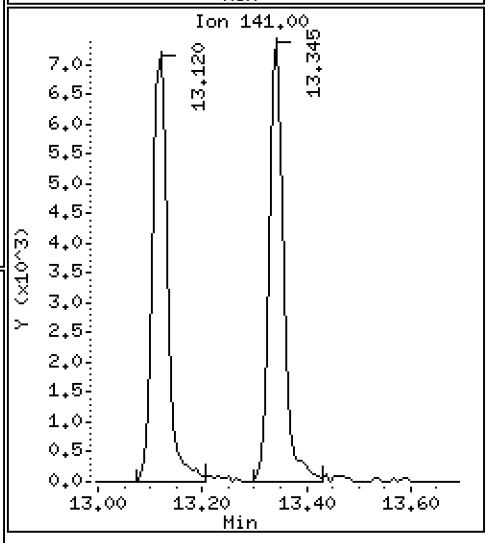
105 1-methylnaphthalene

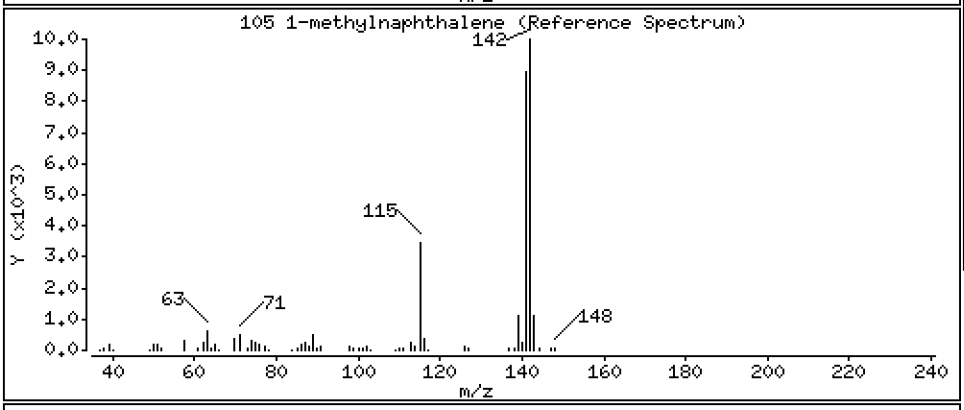
Concentration: 0.2273 ug/mL

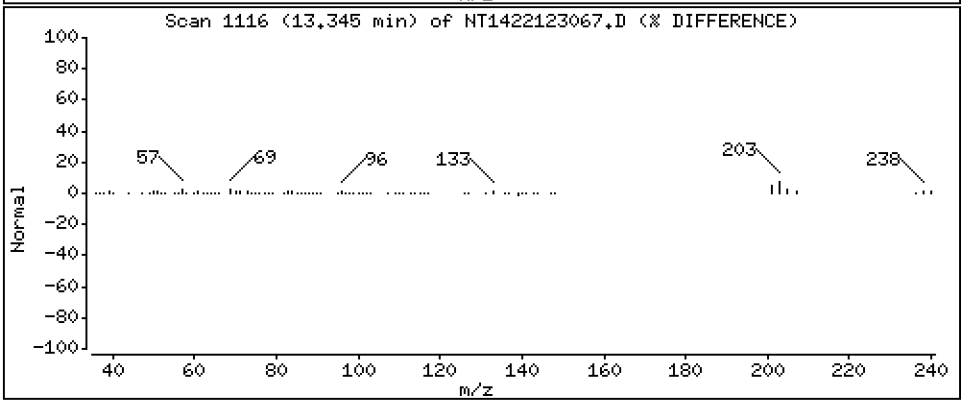












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

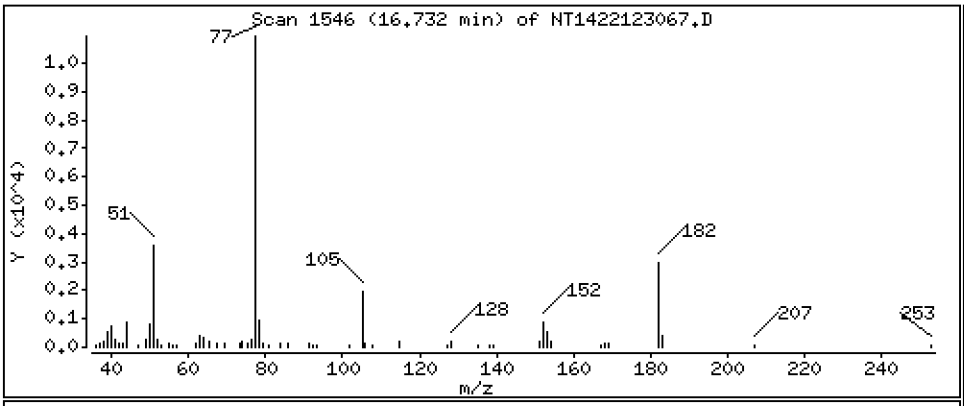
Operator: VTS

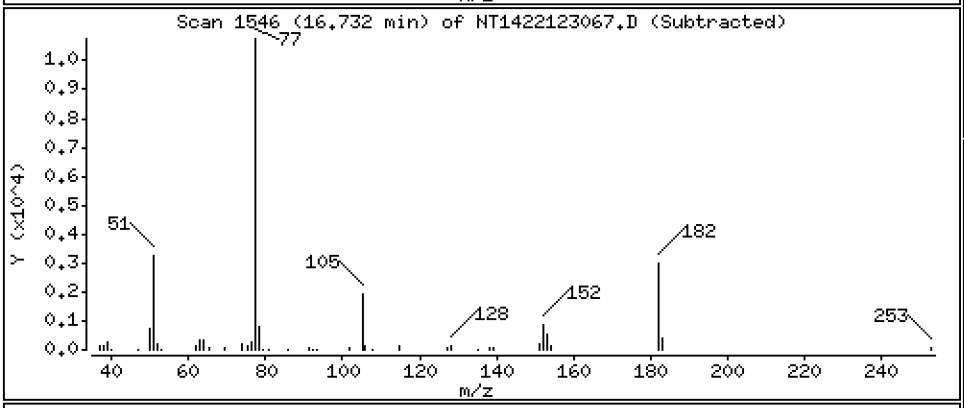
Column phase: ZB-5msi

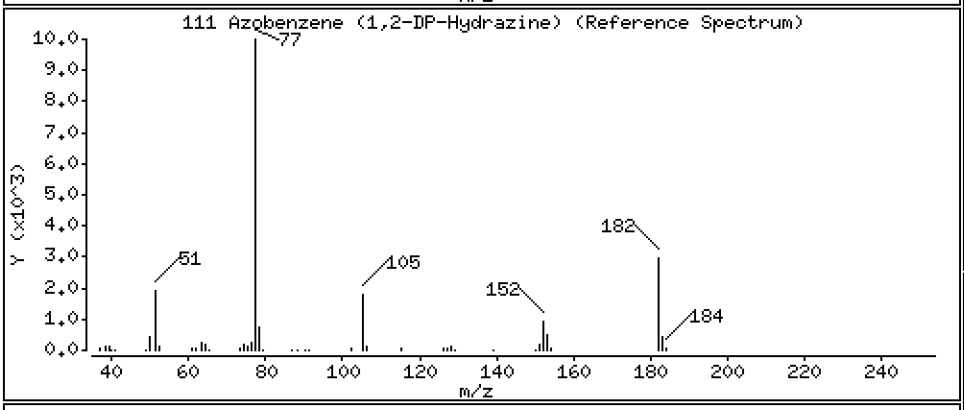
Column diameter: 0.25

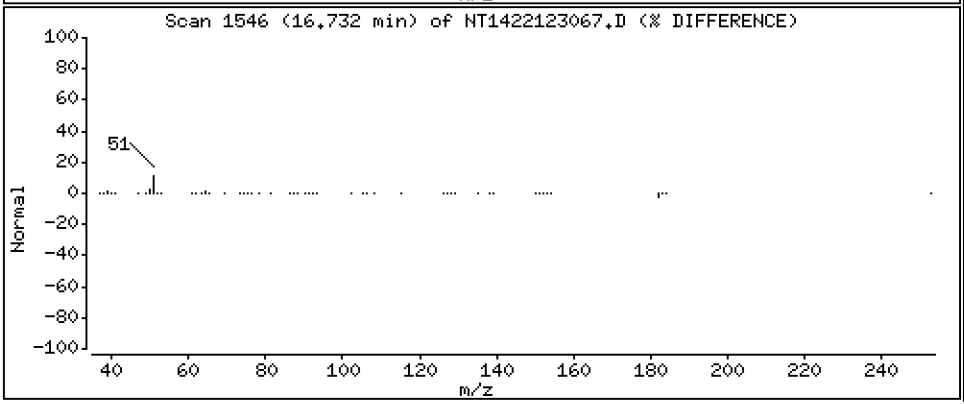
111 Azobenzene (1,2-DP-Hydrazine)

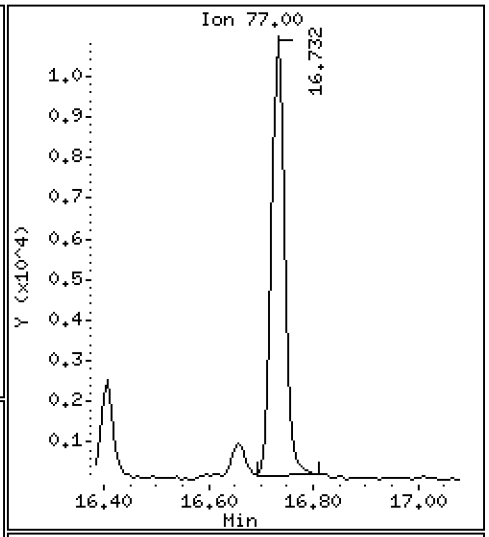
Concentration: 0.2385 ug/mL

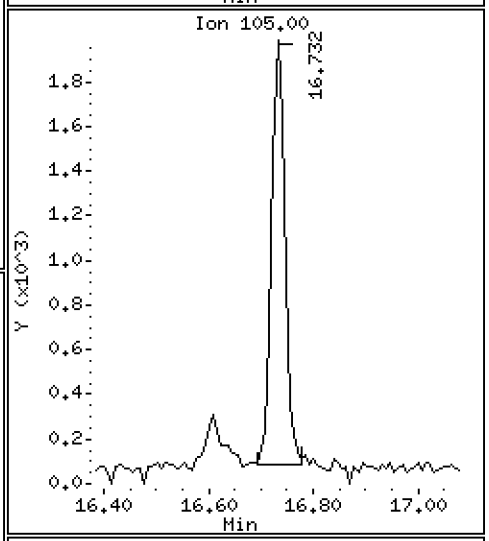


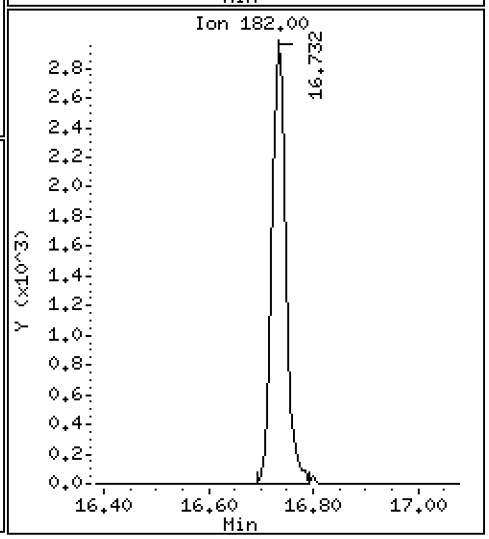












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

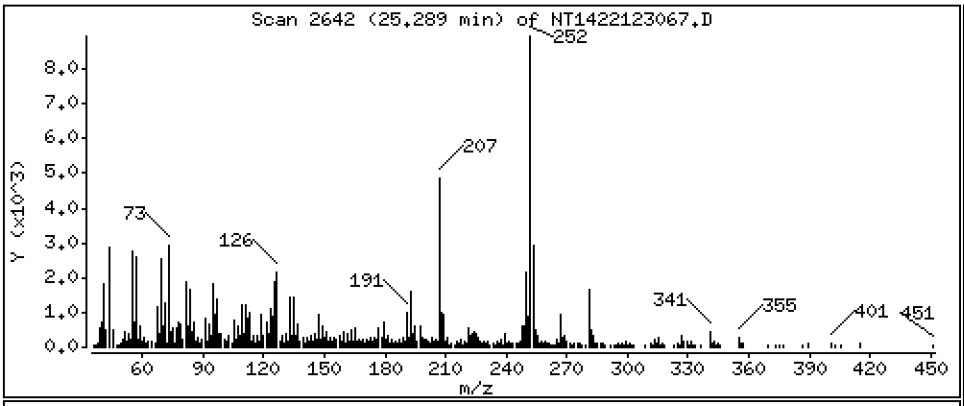
Operator: VTS

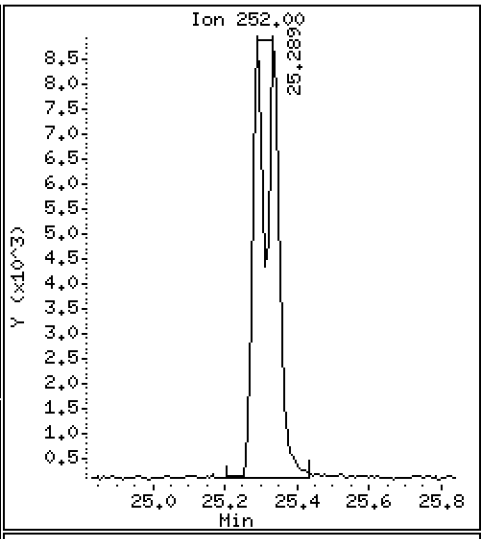
Column phase: ZB-5msi

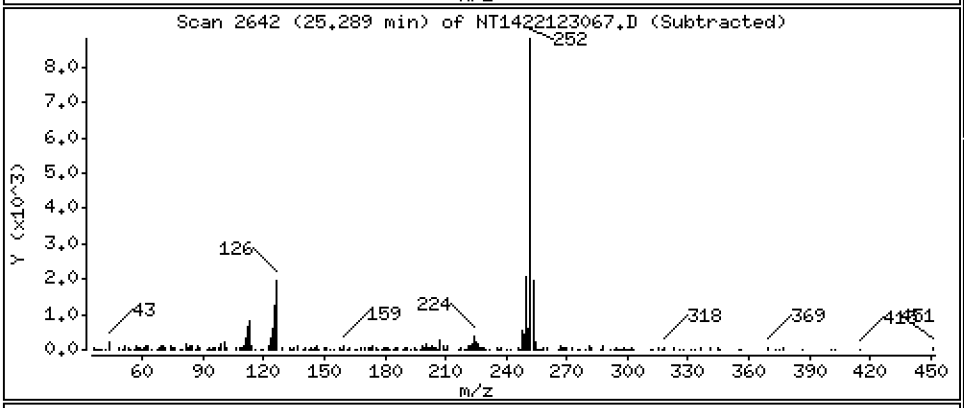
Column diameter: 0.25

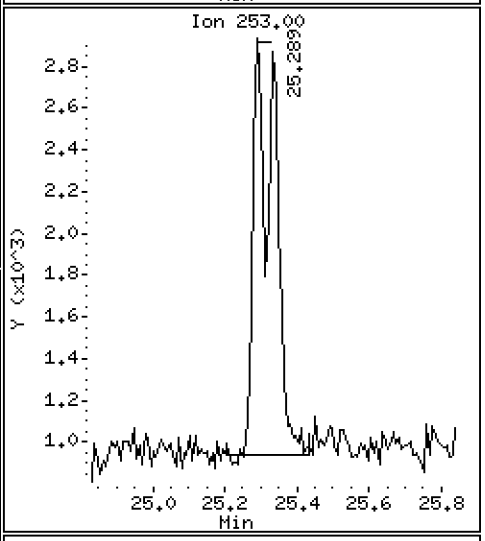
187 Total Benzofluoranthenes

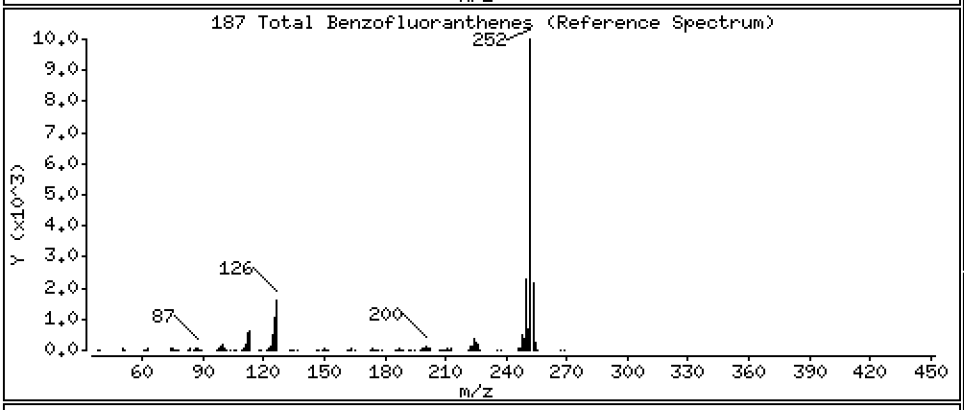
Concentration: 0.5264 ug/mL

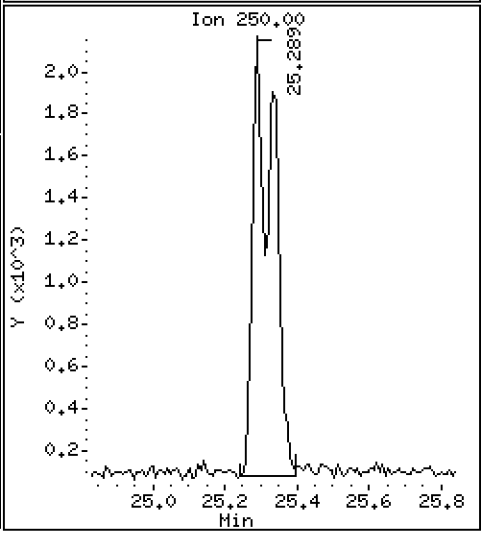


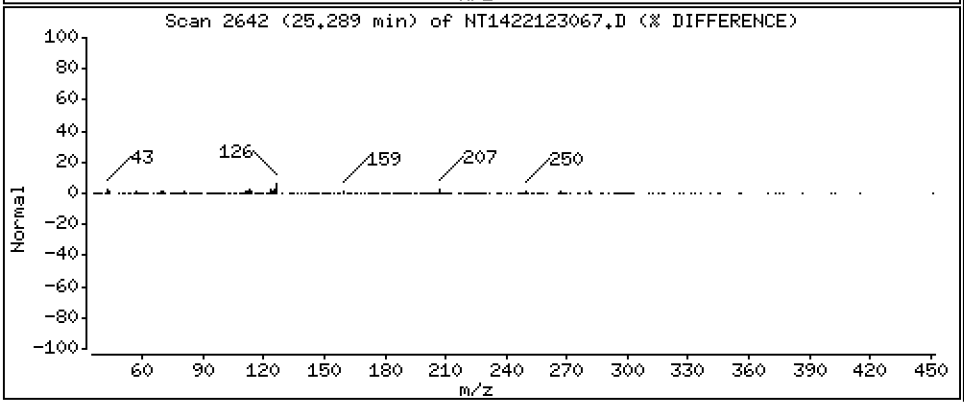












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

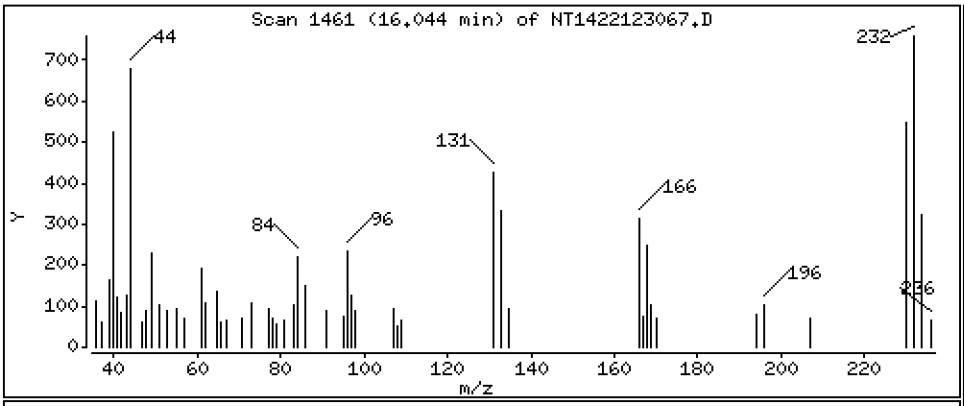
Operator: VTS

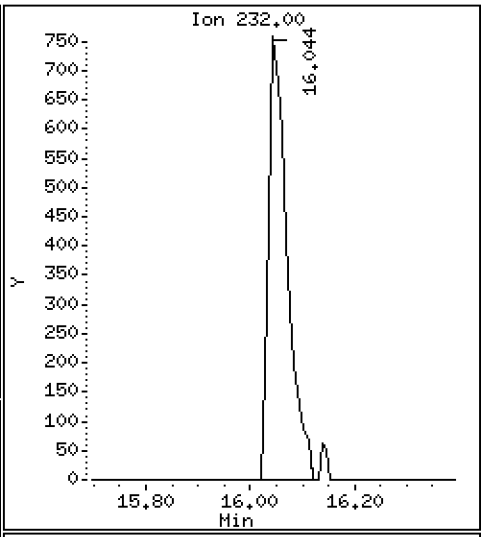
Column phase: ZB-5msi

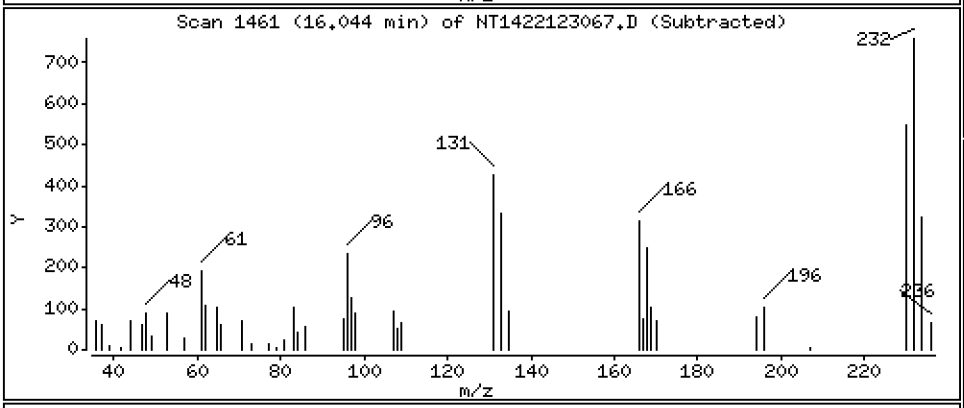
Column diameter: 0.25

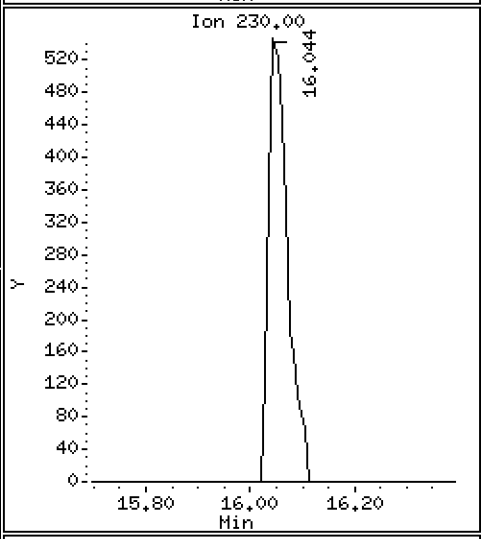
120 2,3,4,6-Tetrachlorophenol

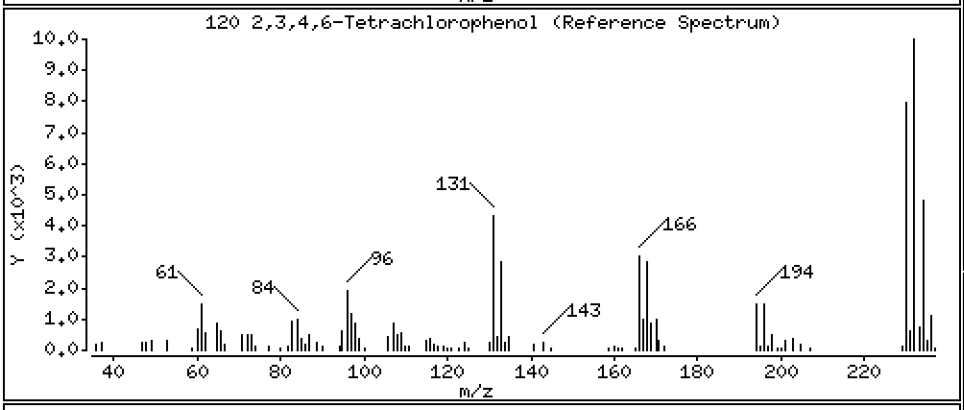
Concentration: 0.1280 ug/mL

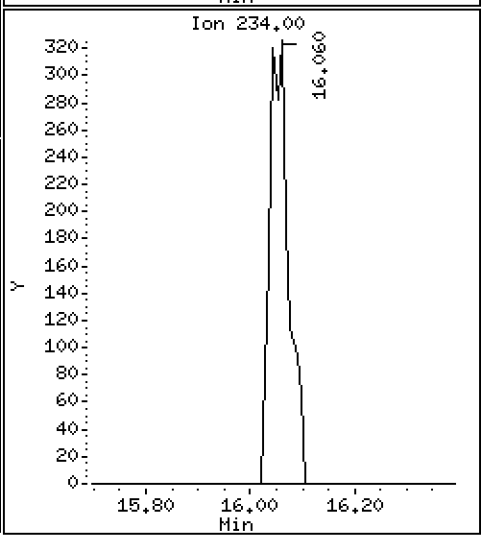


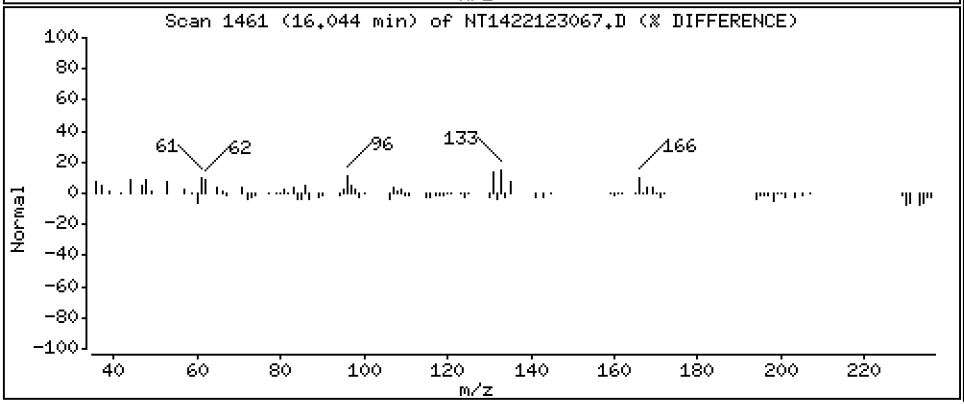












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230C.b\NT1422123067.D
Lab Smp Id: SKL0355-LCV3
Inj Date : 01-JAN-2023 00:06 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-LCV3
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.919	6.919	(0.755)	12469	0.35660	0.3566
$	2 Phenol-d5	99	8.519	8.519	(0.930)	13476	0.31186	0.3119
	3 Phenol	94	8.542	8.542	(0.932)	11161	0.22731	0.2273
$	5 2-Chlorophenol-d4	132	8.797	8.797	(0.960)	12221	0.33675	0.3367
	4 Bis(2-Chloroethyl)ether	93	8.696	8.696	(0.949)	8093	0.23927	0.2393
	6 2-Chlorophenol	128	8.827	8.827	(0.964)	9811	0.24616	0.2462
	7 1,3-Dichlorobenzene	146	9.098	9.098	(0.993)	10440	0.24702	0.2470
*	8 1,4-Dichlorobenzene-d4	152	9.160	9.160	(1.000)	109143	4.00000	
	9 1,4-Dichlorobenzene	146	9.191	9.191	(1.003)	10018	0.25020	0.2502
$	10 1,2-Dichlorobenzene-d4	152	9.525	9.525	(1.040)	5962	0.24036	0.2404
	12 1,2-Dichlorobenzene	146	9.556	9.556	(1.043)	9504	0.24203	0.2420
	11 Benzyl alcohol	108	9.440	9.440	(1.030)	3613	0.16529	0.1653(M)
	14 2,2'-oxybis(1-Chloropropane)	121	9.735	9.735	(1.063)	2767	0.24305	0.2430
	13 2-Methylphenol	108	9.665	9.665	(1.055)	7875	0.22072	0.2207
	17 Hexachloroethane	117	10.154	10.154	(1.108)	2915	0.19795	0.1979
	16 N-Nitroso-di-n-propylamine	70	9.991	9.998	(1.091)	5112	0.23520	0.2352
	15 4-Methylphenol	108	9.936	9.936	(1.085)	7826	0.20792	0.2079
$	18 Nitrobenzene-d5	82	10.262	10.262	(0.880)	7594	0.22651	0.2265
	19 Nitrobenzene	77	10.293	10.301	(0.882)	7425	0.22300	0.2230
	20 Isophorone	82	10.743	10.751	(0.921)	8370	0.19724	0.1972
	21 2-Nitrophenol	139	10.937	10.937	(0.938)	4304	0.21163	0.2116
	22 2,4-Dimethylphenol	107	10.992	10.992	(0.942)	15950	0.45898	0.4590
	23 Bis(2-Chloroethoxy)methane	93	11.186	11.186	(0.959)	7789	0.23594	0.2359
	24 Benzoic acid	105	11.131	11.209	(0.954)	4437	0.20974	0.2097(M)
	25 2,4-Dichlorophenol	162	11.403	11.395	(0.977)	12011	0.41003	0.4100
	26 1,2,4-Trichlorobenzene	180	11.581	11.581	(0.993)	7605	0.24010	0.2401
*	27 Naphthalene-d8	136	11.666	11.673	(1.000)	397029	4.00000	
	28 Naphthalene	128	11.712	11.712	(1.004)	23009	0.23549	0.2355
	29 4-Chloroaniline	127	11.835	11.835	(1.015)	16324	0.40512	0.4051
	30 Hexachlorobutadiene	225	12.075	12.075	(1.035)	3740	0.23799	0.2380
	31 4-Chloro-3-methylphenol	107	12.826	12.810	(1.099)	11960	0.43265	0.4327
	32 2-Methylnaphthalene	142	13.120	13.120	(1.125)	16268	0.22698	0.2270
	33 Hexachlorocyclopentadiene	237	13.584	13.584	(0.887)	624	0.04042	0.04042

		QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
34	2,4,6-Trichlorophenol	196	13.754	13.739	(0.898)	5867	0.34421	0.3442
35	2,4,5-Trichlorophenol	196	13.839	13.816	(0.904)	7090	0.36041	0.3604
$ 36	2-Fluorobiphenyl	172	13.901	13.901	(0.908)	15298	0.22280	0.2228
37	2-Chloronaphthalene	162	14.118	14.118	(0.922)	13703	0.23460	0.2346
38	2-Nitroaniline	65	14.381	14.373	(0.939)	6597	0.42959	0.4296
39	Dimethylphthalate	163	14.799	14.799	(0.967)	12311	0.21377	0.2138
40	Acenaphthylene	152	14.993	14.993	(0.979)	20407	0.22913	0.2291
41	2,6-Dinitrotoluene	165	14.946	14.938	(0.976)	4965	0.38201	0.3820
* 42	Acenaphthene-d10	164	15.310	15.310	(1.000)	204214	4.00000	
43	3-Nitroaniline	138	15.240	15.225	(0.995)	5629	0.35634	0.3563
44	Acenaphthene	153	15.372	15.371	(1.004)	13024	0.23577	0.2358
45	2,4-Dinitrophenol	184	Compound Not Detected.					
46	Dibenzofuran	168	15.704	15.704	(1.026)	19925	0.24053	0.2405
47	4-Nitrophenol	109	15.665	15.557	(1.023)	2026	0.26799	0.2680(M)
48	2,4-Dinitrotoluene	165	15.758	15.750	(1.029)	6043	0.33888	0.3389
50	Diethylphthalate	149	16.260	16.268	(1.062)	20315	0.25952	0.2595
49	Fluorene	166	16.423	16.423	(1.073)	20566	0.23337	0.2334
51	4-Chlorophenyl-phenylether	204	16.407	16.407	(1.072)	9124	0.21148	0.2115
52	4-Nitroaniline	138	16.531	16.500	(1.080)	7107	0.37385	0.3738(M)
53	4,6-Dinitro-2-methylphenol	198	16.608	16.600	(0.905)	1281	0.09261	0.09261
54	N-Nitrosodiphenylamine	169	16.654	16.654	(0.907)	14191	0.25087	0.2509
$ 55	2,4,6-Tribromophenol	330	16.955	16.955	(1.107)	2149	0.22461	0.2246
56	4-Bromophenyl-phenylether	248	17.417	17.410	(0.949)	4781	0.22320	0.2232
57	Hexachlorobenzene	284	17.734	17.734	(0.966)	5567	0.23683	0.2368
58	Pentachlorophenol	266	18.106	18.090	(0.986)	206	0.02024	0.02024(M)
* 59	Phenanthrene-d10	188	18.361	18.361	(1.000)	329657	4.00000	
60	Phenanthrene	178	18.408	18.408	(1.003)	20593	0.23959	0.2396
61	Anthracene	178	18.500	18.500	(1.008)	19055	0.23223	0.2322
62	Carbazole	167	18.841	18.825	(1.026)	18308	0.23080	0.2308
63	Di-n-butylphthalate	149	19.615	19.614	(1.068)	20354	0.22726	0.2273
64	Fluoranthene	202	20.791	20.791	(0.889)	20667	0.23809	0.2381
65	Pyrene	202	21.216	21.216	(0.907)	21300	0.23339	0.2334
$ 66	Terphenyl-d14	244	21.495	21.495	(0.919)	14382	0.22224	0.2222
67	Butylbenzylphthalate	149	22.408	22.408	(0.958)	9292	0.26989	0.2699
68	Benzo(a)anthracene	228	23.368	23.376	(0.999)	21552	0.26391	0.2639
* 69	Chrysene-d12	240	23.399	23.399	(1.000)	269585	4.00000	
70	3,3'-Dichlorobenzidine	252	23.322	23.322	(0.997)	20482	0.81929	0.8193
71	Chrysene	228	23.446	23.446	(1.002)	18735	0.24287	0.2429
72	bis(2-Ethylhexyl)phthalate	149	23.430	23.430	(0.959)	13030	0.26109	0.2611
* 134	Di-n-octylphthalate-d4	153	24.421	24.421	(1.000)	449369	4.00000	
73	Di-n-octylphthalate	149	24.429	24.429	(1.000)	26527	0.24592	0.2459
74	Benzo(b)fluoranthene	252	25.288	25.296	(0.969)	17280	0.24137	0.2414
75	Benzo(k)fluoranthene	252	25.335	25.335	(0.971)	20473	0.28097	0.2810
76	Benzo(a)pyrene	252	25.970	25.970	(0.996)	15021	0.25240	0.2524
* 77	Perylene-d12	264	26.086	26.086	(1.000)	227797	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.861	28.838	(1.106)	10107	0.14940	0.1494
79	Dibenzo(a,h)anthracene	278	28.877	28.853	(1.107)	8673	0.15086	0.1509
80	Benzo(g,h,i)perylene	276	29.677	29.653	(1.138)	5996	0.10580	0.1058
90	N-Nitrosodimethylamine	74	4.718	4.718	(0.515)	11868	0.49283	0.4928
91	Aniline	93	8.611	8.611	(0.940)	23141	0.48403	0.4840
93	Benzidine	184	21.030	21.015	(0.899)	14240	0.43116	0.4312
103	Pyridine	79	4.772	4.741	(0.521)	17969	0.23482	0.2348
105	1-methylnaphthalene	142	13.344	13.344	(1.144)	15653	0.22730	0.2273
111	Azobenzene (1,2-DP-Hydrazine)	77	16.731	16.731	(1.093)	18088	0.23851	0.2385

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.288	25.335	(0.969)	36432	0.52638	0.5264
120 2,3,4,6-Tetrachlorophenol	232	16.044	16.044	(1.048)	1840	0.12799	0.1280

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123067.D
Lab Smp Id: SKL0355-LCV3
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Misc Info:

Calibration Date: 31-DEC-2022
Calibration Time: 23:30
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138755	69378	277510	109143	-21.34
27 Naphthalene-d8	501723	250862	1003446	397029	-20.87
42 Acenaphthene-d10	275234	137617	550468	204214	-25.80
59 Phenanthrene-d10	440085	220043	880170	329657	-25.09
69 Chrysene-d12	384795	192398	769590	269585	-29.94
134 Di-n-octylphthala	674530	337265	1349060	449369	-33.38
77 Perylene-d12	336665	168333	673330	227797	-32.34

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	-0.07
42 Acenaphthene-d10	15.31	14.81	15.81	15.31	0.00
59 Phenanthrene-d10	18.36	17.86	18.86	18.36	0.00
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.42	0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123067.D

Lab ID: SKL0355-LCV3
nt14.i, 20221230C.b\ABN.m,   01-JAN-2023 00:06

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.954	0.960	-0.0060	Benzoic acid
1.023	1.016	0.0071	4-Nitrophenol

RRT check based on Ccal File: NT1422123066.D

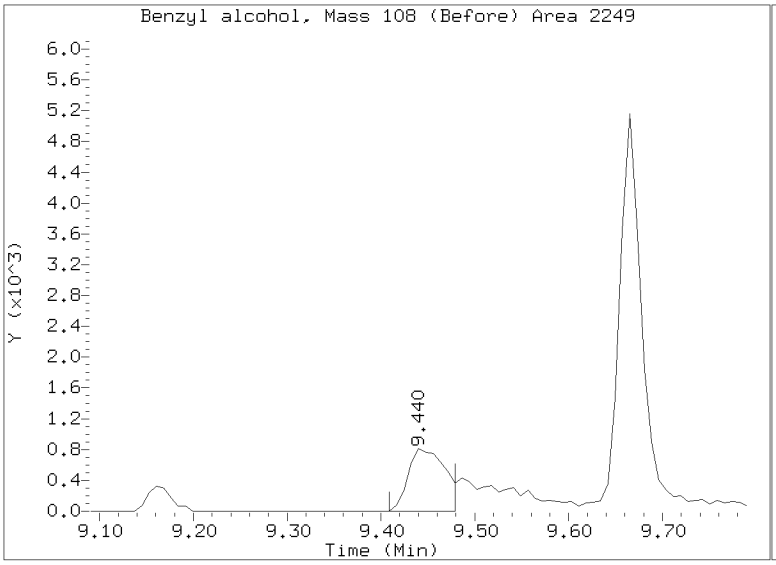
On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

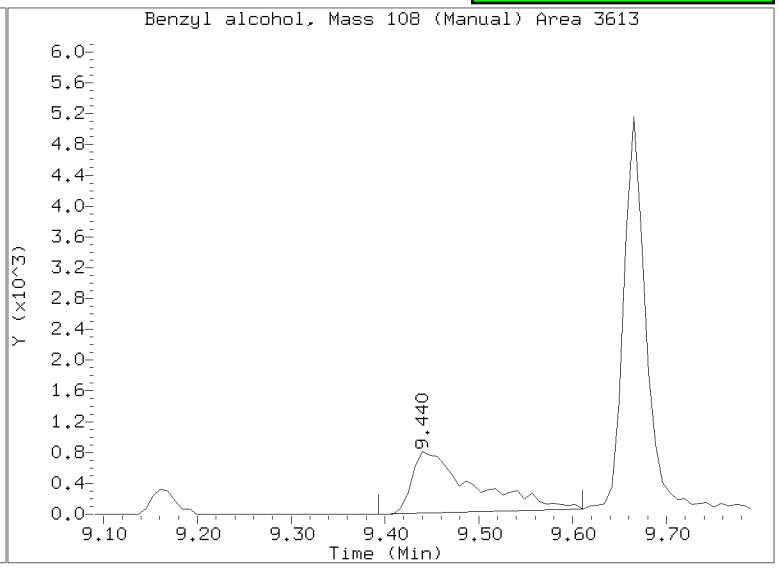
* Only compounds listed in the work order have been verified by the analyst *

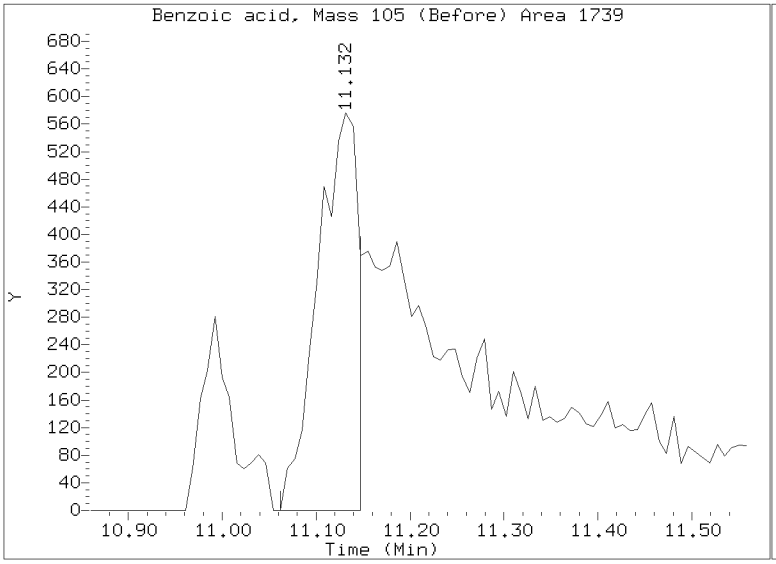
Quant Ion Manual Peak Adjustment Report

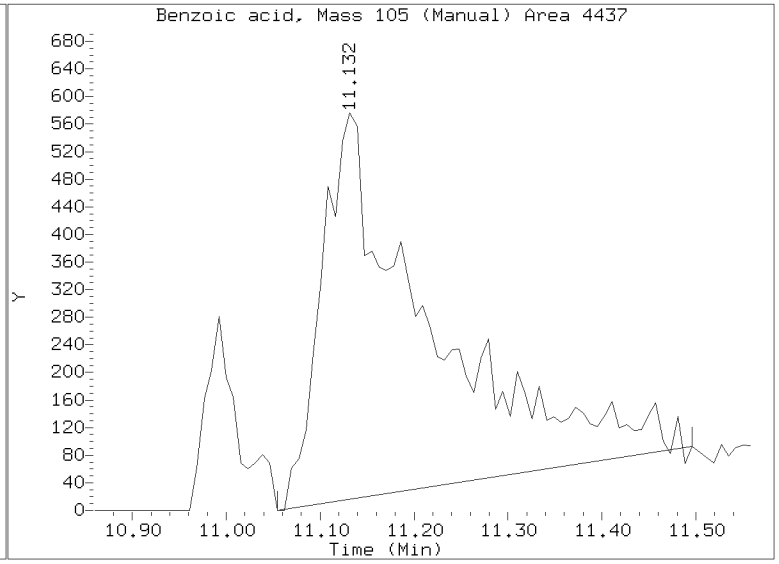
Datafile: //target/share/chem3/nt14.i/20221230C.b/NT1422123067.D
Injection Date: 01-JAN-2023 00:06
Lab ID:SKL0355-LCV3 Client ID:
Report Date: 01/04/2023 14:23

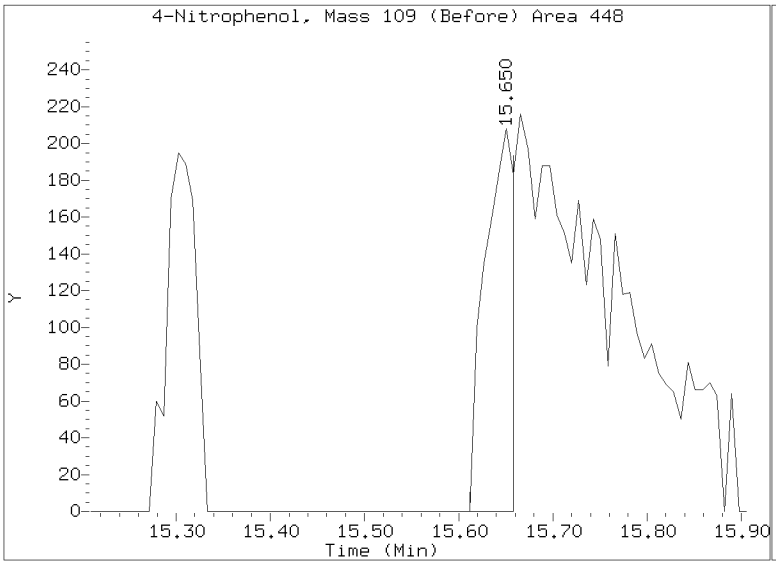
REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM

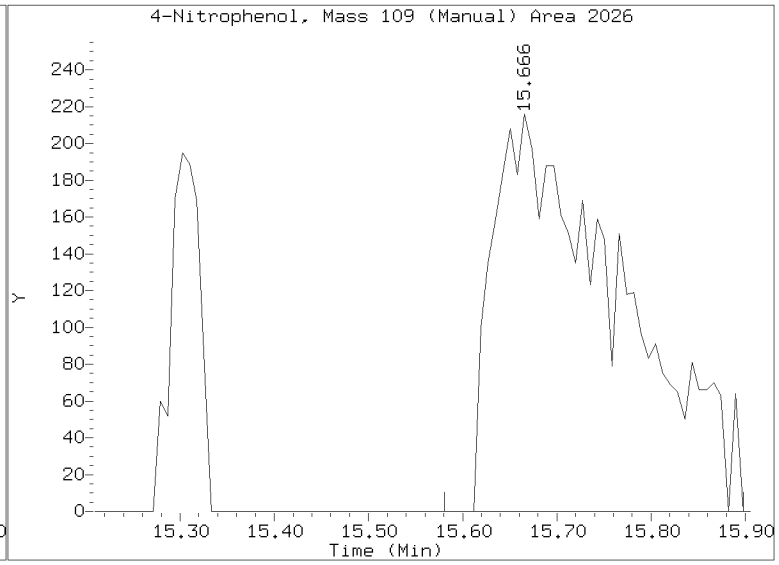








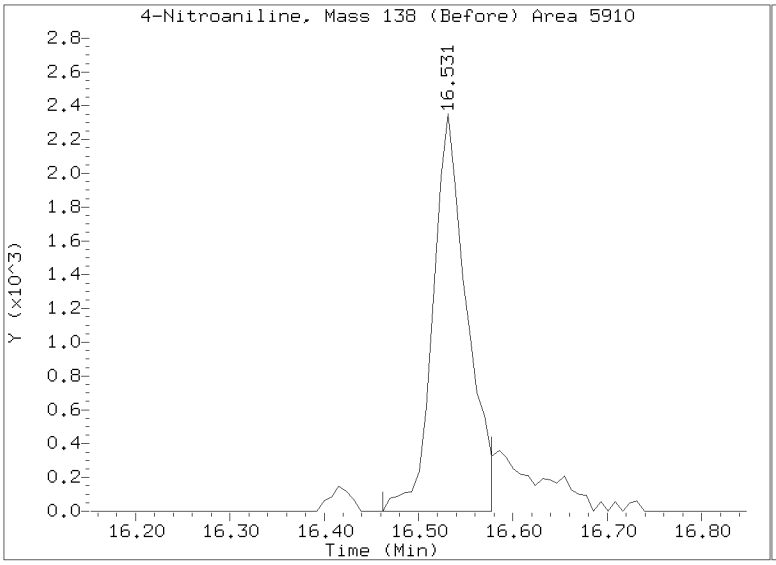


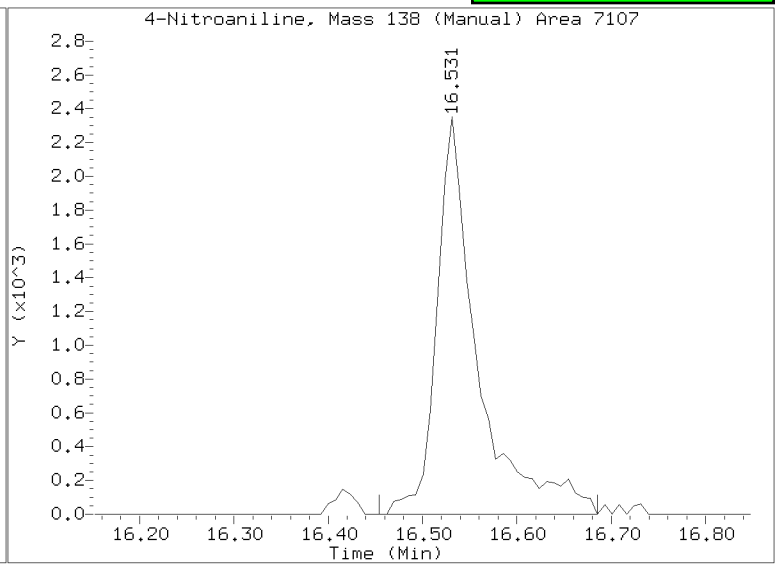


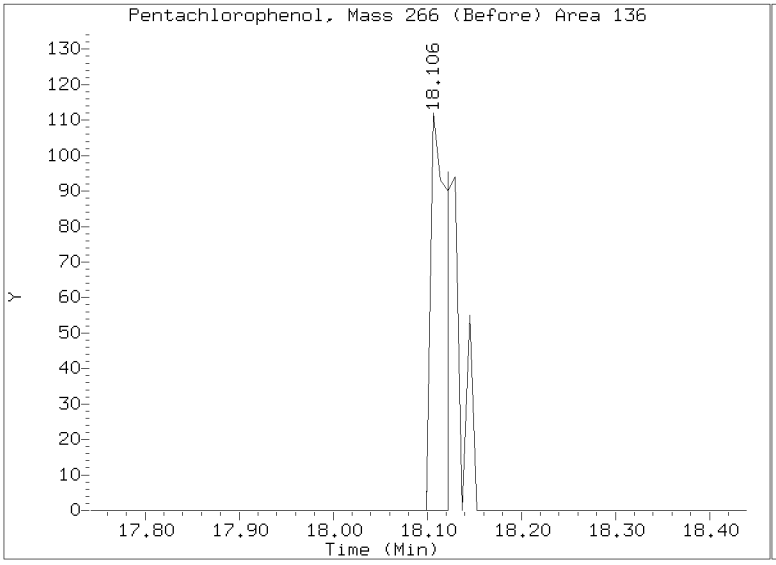
Quant Ion Manual Peak Adjustment Report

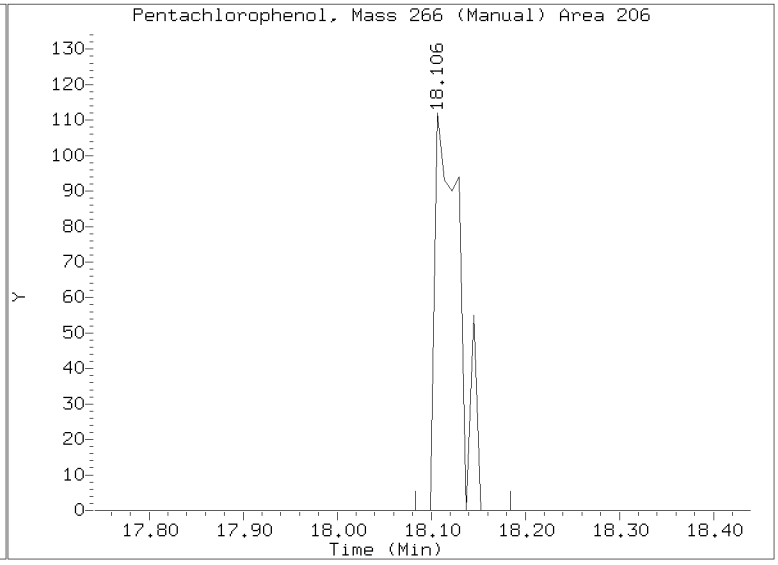
Datafile: //target/share/chem3/nt14.i/20221230C.b/NT1422123067.D
Injection Date: 01-JAN-2023 00:06
Lab ID:SKL0355-LCV3 Client ID:
Report Date: 01/04/2023 14:23

REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM









Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION CONTINUING CALIBRATION CHECK

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123068.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	01/01/23
Lab Sample ID:	SKL0355-LCV4	Injection Time:	00:42
Sequence Name:	ABN 0.5		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol	A	0.50000	0.5	1.7995200	1.7483010		-2.8	+/-50
bis(2-chloroethyl) ether	A	0.50000	0.5	1.2396270	1.1939320		-3.7	+/-50
2-Chlorophenol	A	0.50000	0.5	1.4607190	1.5084730		3.3	+/-50
1,3-Dichlorobenzene	A	0.50000	0.5	1.5489360	1.5429450		-0.4	+/-50
1,4-Dichlorobenzene	A	0.50000	0.5	1.4674070	1.4875080		1.4	+/-50
1,2-Dichlorobenzene	A	0.50000	0.5	1.4391100	1.4279910		-0.8	+/-50
Benzyl Alcohol	A	0.50000	0.4	0.8011083	0.6198655		-22.6	+/-50
2,2'-Oxybis(1-chloropropane)	A	0.50000	0.5	0.4172325	0.3945302		-5.4	+/-50
2-Methylphenol	A	0.50000	0.5	1.3076140	1.2737810		-2.6	+/-50
Hexachloroethane	A	0.50000	0.4	0.5396966	0.4453238		-17.5	+/-50
N-Nitroso-di-n-Propylamine	A	0.50000	0.5	0.7965591	0.8084773		1.5	+/-50
4-Methylphenol	A	0.50000	0.5	1.3794240	1.2838410		-6.9	+/-50
Nitrobenzene	A	0.50000	0.5	0.3354574	0.3148268		-6.2	+/-50
Isophorone	A	0.50000	0.5	0.4275424	0.3868443		-9.5	+/-50
2-Nitrophenol	A	0.50000	0.5	0.2064997	0.1943328		-5.4	+/-50
2,4-Dimethylphenol	A	1.0000	1.0	0.3501131	0.3420102		-2.3	+/-50
Bis(2-Chloroethoxy)methane	A	0.50000	0.5	0.3325989	0.3291838		-1.0	+/-50
2,4-Dichlorophenol	A	1.0000	1.0	0.2951237	0.2833035		-4.0	+/-50
1,2,4-Trichlorobenzene	A	0.50000	0.5	0.3191088	0.3120949		-2.2	+/-50
Naphthalene	A	0.50000	0.5	0.9843833	0.9556600		-2.9	+/-50
Benzoic acid	A	2.0000	0.4	0.1508906	0.0477355		-77.6	+/-50
4-Chloroaniline	A	1.0000	0.9	0.4059568	0.3606975		-11.1	+/-50
Hexachlorobutadiene	A	0.50000	0.5	0.1583286	0.1512812		-4.5	+/-50
4-Chloro-3-Methylphenol	A	1.0000	0.9	0.2785027	0.2644514		-5.0	+/-50
2-Methylnaphthalene	A	0.50000	0.5	0.7220739	0.6723759		-6.9	+/-50
Hexachlorocyclopentadiene	A	1.0000	0.1	0.3023695	0.0415226		-86.3	+/-50
2,4,6-Trichlorophenol	A	1.0000	0.9	0.3338641	0.2917426		-12.6	+/-50
2,4,5-Trichlorophenol	A	1.0000	0.8	0.3853234	0.3090024		-19.8	+/-50
2-Chloronaphthalene	A	0.50000	0.5	1.1441150	1.1004810		-3.8	+/-50
2-Nitroaniline	A	1.0000	1.0	0.3007956	0.2969377		-1.3	+/-50
Acenaphthylene	A	0.50000	0.5	1.7445240	1.7372870		-0.4	+/-50
Dimethylphthalate	A	0.50000	0.5	1.1280520	1.1181020		-0.9	+/-50
2,6-Dinitrotoluene	A	1.0000	0.9	0.2545771	0.2221514		-12.7	+/-50
Acenaphthene	A	0.50000	0.5	1.0820160	1.0722410		-0.9	+/-50

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION CONTINUING CALIBRATION CHECK

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123068.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	01/01/23
Lab Sample ID:	SKL0355-LCV4	Injection Time:	00:42
Sequence Name:	ABN 0.5		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
3-Nitroaniline	A	1.0000	0.8	0.3094189	0.2625893		-15.1	+/-50
2,4-Dinitrophenol	A	2.0000	0.01	0.1831718	0.0013321		-99.4	+/-50
Dibenzofuran	A	0.50000	0.5	1.6225950	1.5992840		-1.4	+/-50
4-Nitrophenol	A	1.0000	0.7	0.1384031	0.0995818		-32.8	+/-50
2,4-Dinitrotoluene	A	1.0000	0.8	0.3492859	0.2717615		-22.2	+/-50
Fluorene	A	0.50000	0.5	1.7261350	1.6845370		-2.4	+/-50
4-Chlorophenylphenyl ether	A	0.50000	0.5	0.8450792	0.8658081		2.5	+/-50
Diethyl phthalate	A	0.50000	0.6	1.5332690	1.7536520		14.4	+/-50
4-Nitroaniline	A	1.0000	0.8	0.3413732	0.3098778		-16.9	+/-50
4,6-Dinitro-2-methylphenol	A	2.0000	0.4	0.1530278	0.0321223		-80.9	+/-50
N-Nitrosodiphenylamine	A	0.50000	0.5	0.6863845	0.7021852		2.3	+/-50
4-Bromophenyl phenyl ether	A	0.50000	0.5	0.2599074	0.2459767		-5.4	+/-50
Hexachlorobenzene	A	0.50000	0.5	0.2852204	0.2779293		-2.6	+/-50
Pentachlorophenol	A	1.0000	0.1	0.1128364	0.0128045		-89.6	+/-50
Phenanthrene	A	0.50000	0.5	1.0429190	1.0078070		-3.4	+/-50
Anthracene	A	0.50000	0.5	0.9956202	0.9654373		-3.0	+/-50
Carbazole	A	0.50000	0.5	0.9624945	0.9011810		-6.4	+/-50
Di-n-Butylphthalate	A	0.50000	0.5	1.0394700	1.0429660		-4.2	+/-50
Fluoranthene	A	0.50000	0.5	1.2879410	1.2156890		-5.6	+/-50
Pyrene	A	0.50000	0.5	1.3541610	1.3030620		-3.8	+/-50
Butylbenzylphthalate	A	0.50000	0.5	0.4650792	0.5379980		5.2	+/-50
Benzo(a)anthracene	A	0.50000	0.5	1.2117210	1.2615680		4.1	+/-50
3,3'-Dichlorobenzidine	A	1.5000	1.6	0.3709370	0.4058052		9.4	+/-50
Chrysene	A	0.50000	0.5	1.1445730	1.1447600		0.02	+/-50
bis(2-Ethylhexyl)phthalate	A	0.50000	0.5	0.4442323	0.4563126		2.7	+/-50
Di-n-Octylphthalate	A	0.50000	0.5	0.9601702	0.9409763		-2.0	+/-50
Benzofluoranthenes, Total	A	1.0000	1.1	1.2153330	1.3693140		12.7	+/-50
Benzo(a)pyrene	A	0.50000	0.5	1.0450150	1.1069130		5.9	+/-50
Indeno(1,2,3-cd)pyrene	A	0.50000	0.3	1.1879490	0.6834033		-42.5	+/-50
Dibenzo(a,h)anthracene	A	0.50000	0.3	1.0094890	0.5956232		-41.0	+/-50
Benzo(g,h,i)perylene	A	0.50000	0.2	0.9951726	0.4792214		-51.8	+/-50
1-Methylnaphthalene	A	0.50000	0.5	0.6937882	0.6579608		-5.2	+/-50
2-Fluorophenol	A	0.75000	0.732	1.2814900	1.2512690		-2.4	+/-50
Phenol-d5	A	0.75000	0.661	1.5836890	1.3948320		-11.9	+/-50

* Values outside of QC limits

LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123068.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	01/01/23
Lab Sample ID:	SKL0355-LCV4	Injection Time:	00:42
Sequence Name:	ABN 0.5		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2-Chlorophenol-d4	A	0.75000	0.698	1.3300510	1.2370580		-7.0	+/-50
1,2-Dichlorobenzene-d4	A	0.50000	0.480	0.9090592	0.8729895		-4.0	+/-50
Nitrobenzene-d5	A	0.50000	0.483	0.3377760	0.3263357		-3.4	+/-50
2-Fluorobiphenyl	A	0.50000	0.472	1.3448860	1.2695780		-5.6	+/-50
2,4,6-Tribromophenol	A	0.75000	0.538	0.1844845	0.1345265		-28.3	+/-50
p-Terphenyl-d14	A	0.50000	0.451	0.9601842	0.8667715		-9.7	+/-50

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123068.D

Page 1

Date : 01-JAN-2023 00:42

Client ID:

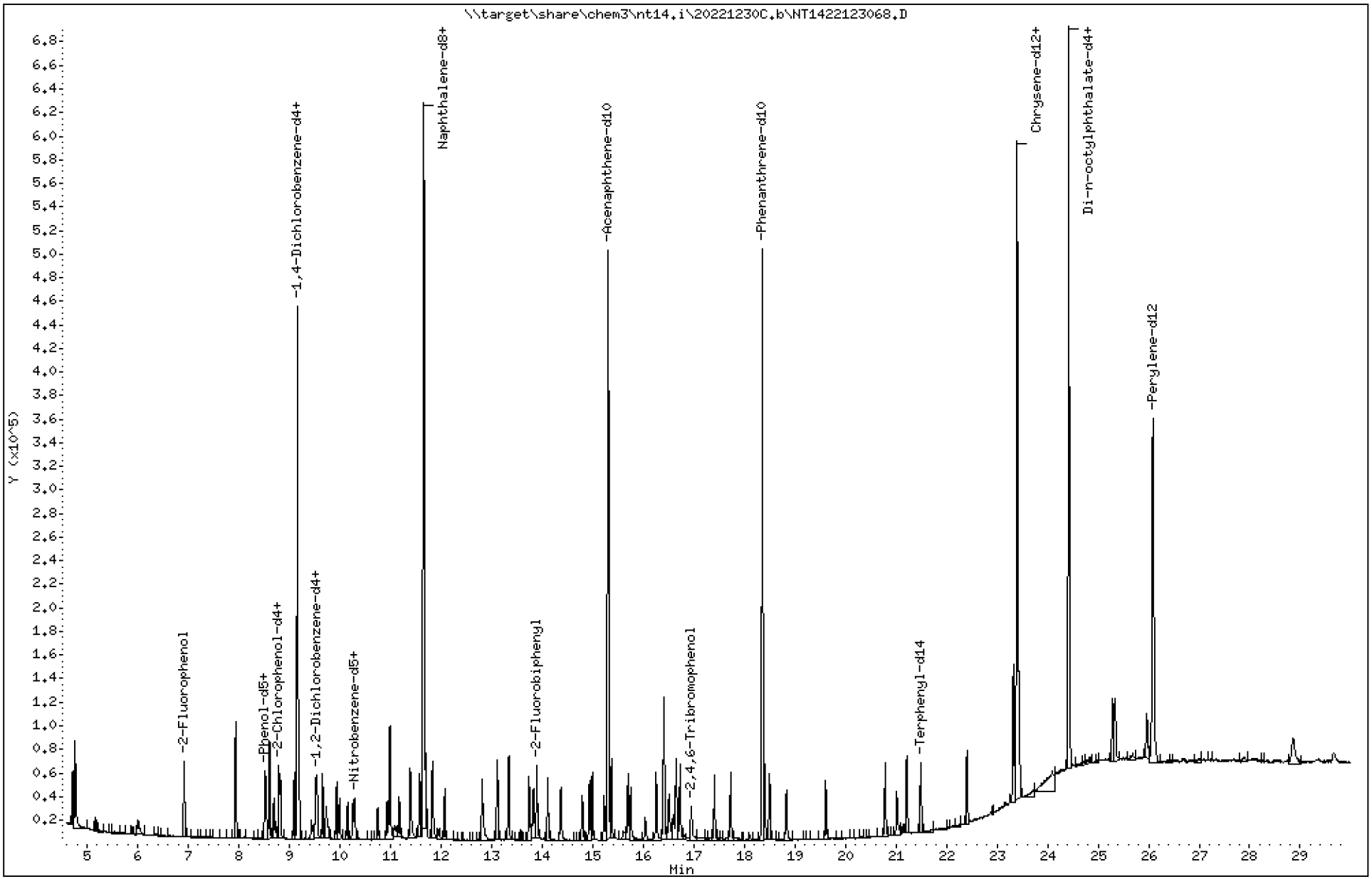
Instrument: nt14.i

Sample Info: SKL0355-LCV4

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

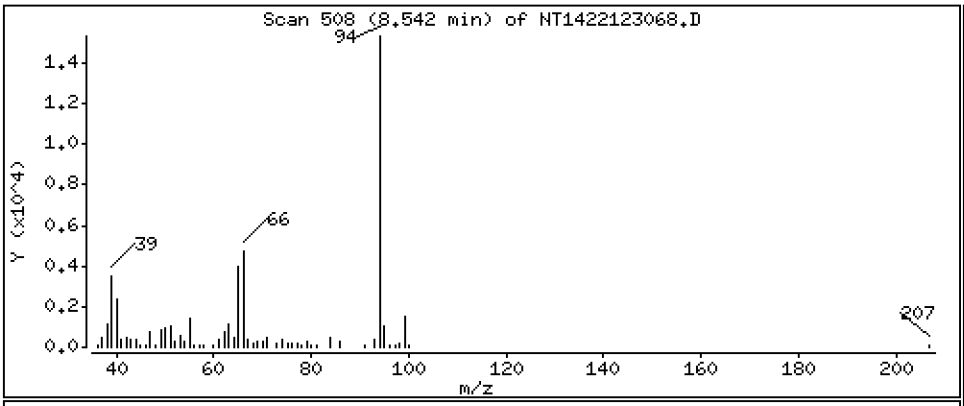
Operator: VTS

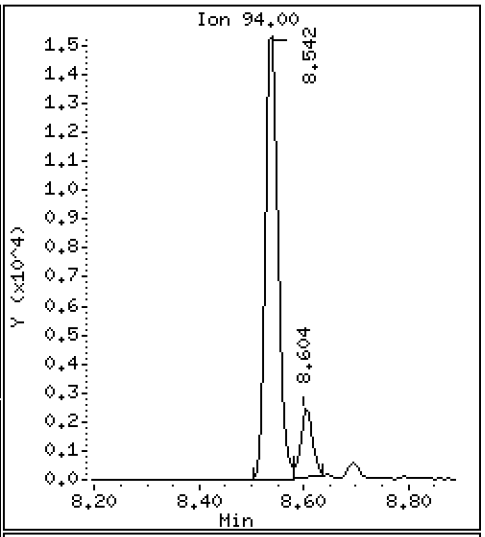
Column phase: ZB-5msi

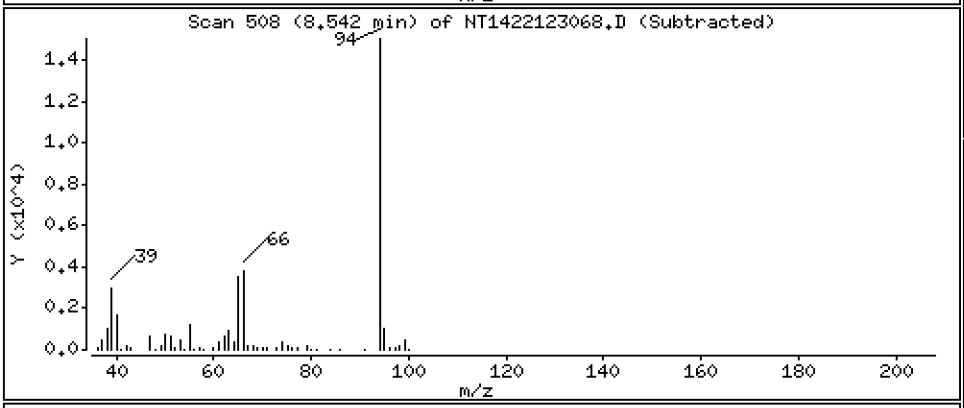
Column diameter: 0.25

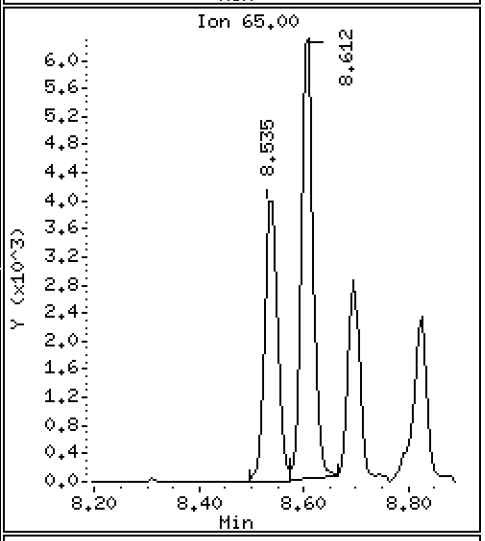
3 Phenol

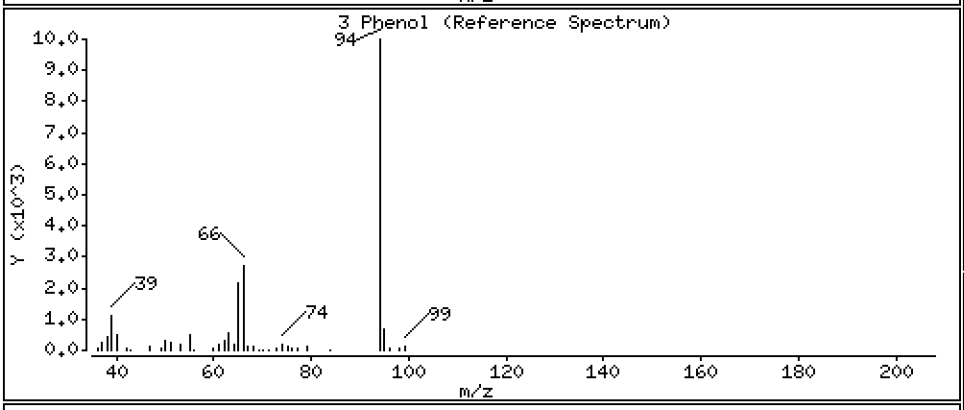
Concentration: 0.4858 ug/mL

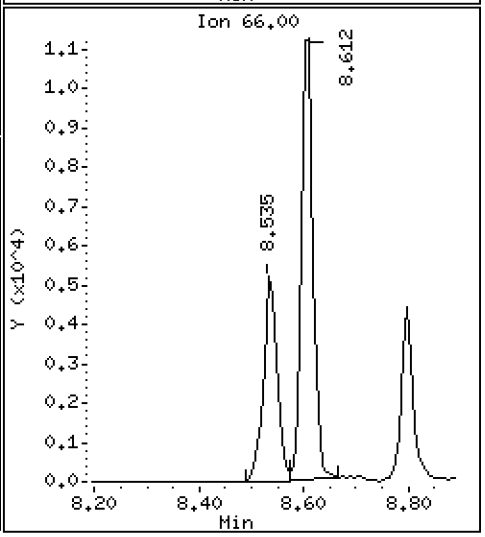


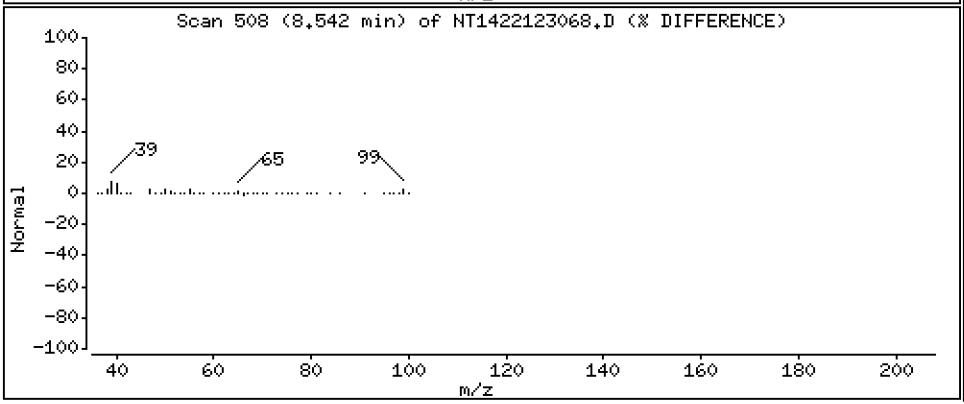












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

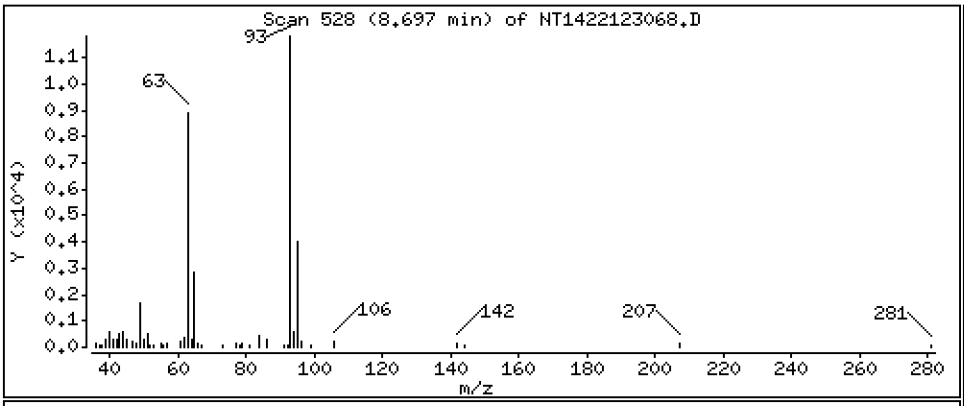
Operator: VTS

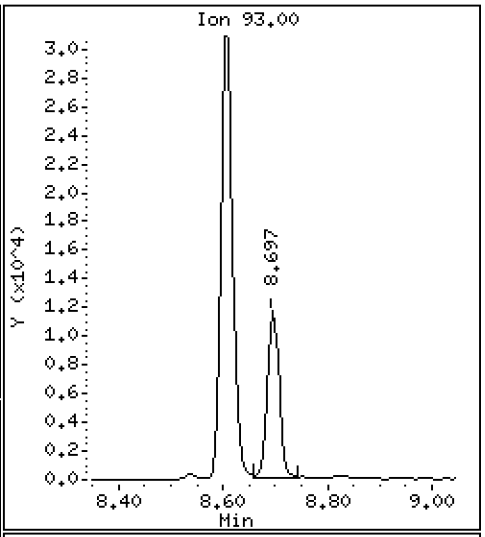
Column phase: ZB-5msi

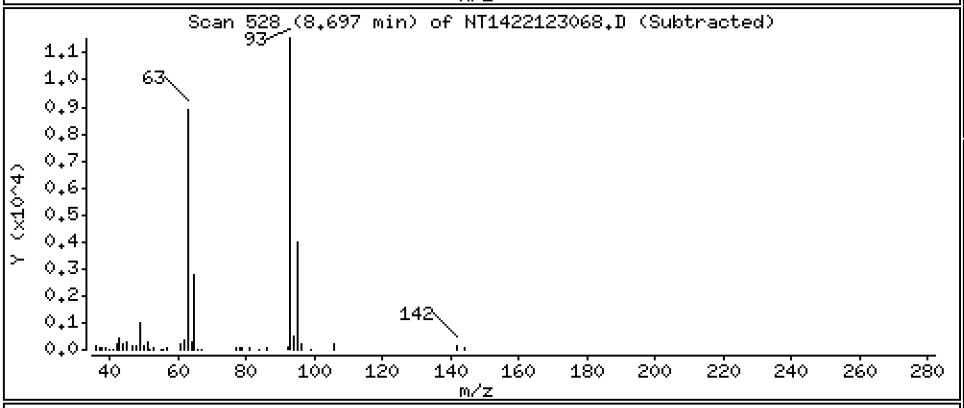
Column diameter: 0.25

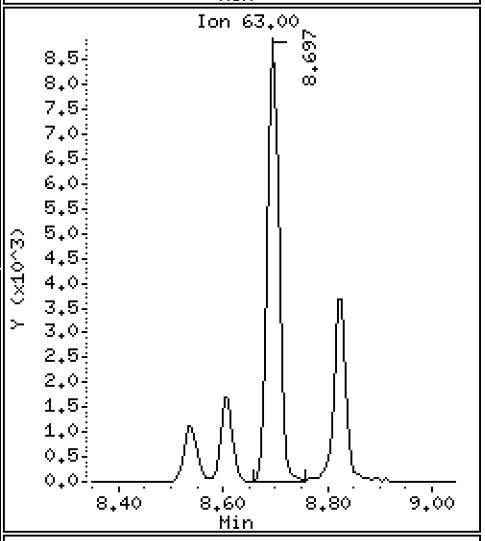
4 Bis(2-Chloroethyl)ether

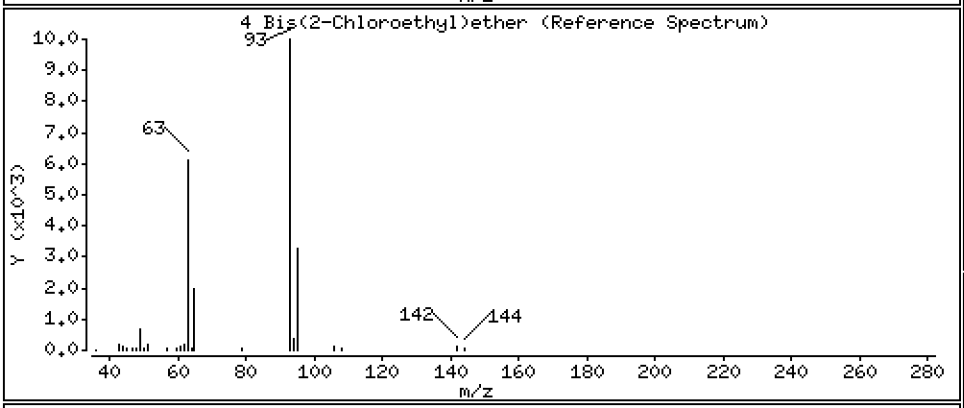
Concentration: 0.4816 ug/mL

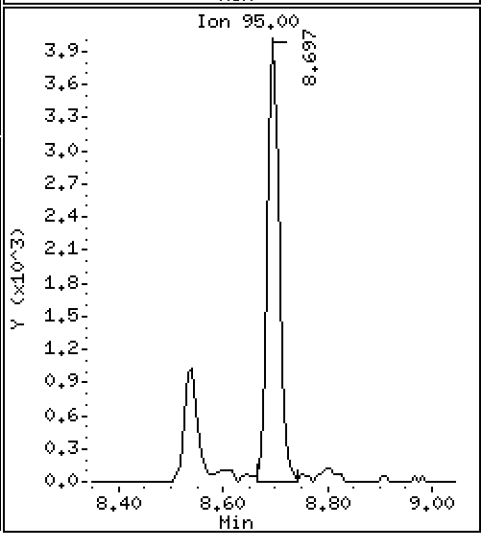


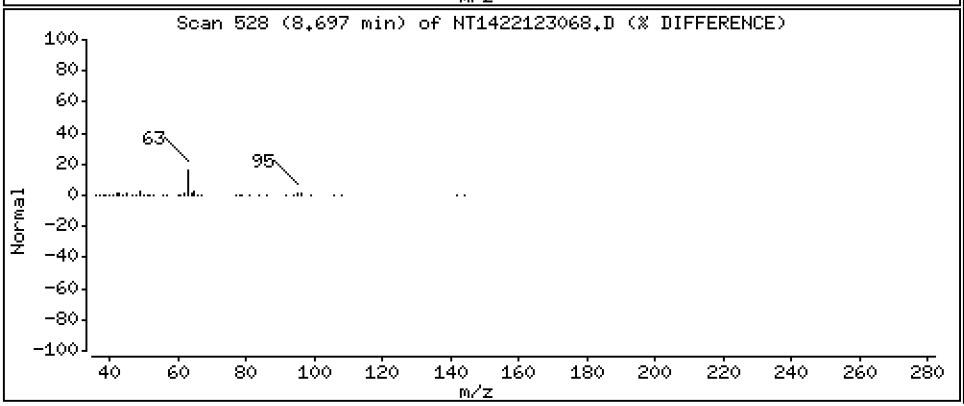












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

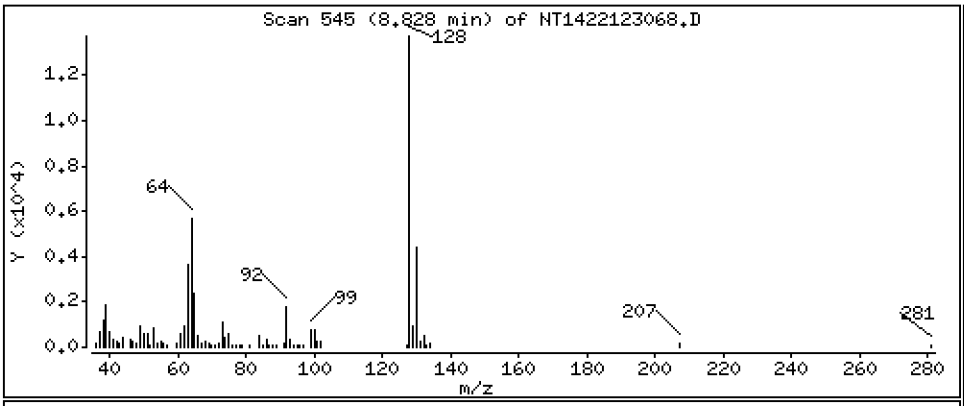
Operator: VTS

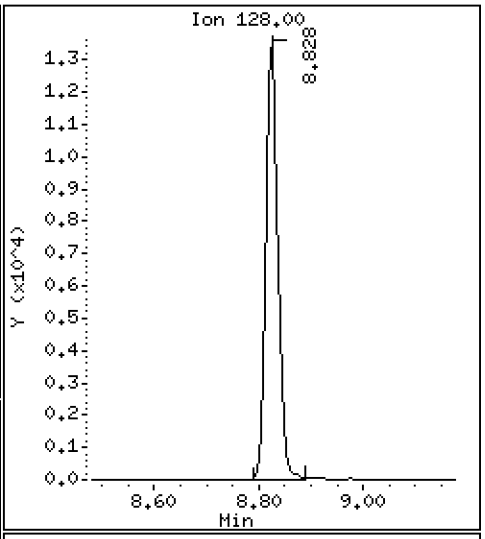
Column phase: ZB-5msi

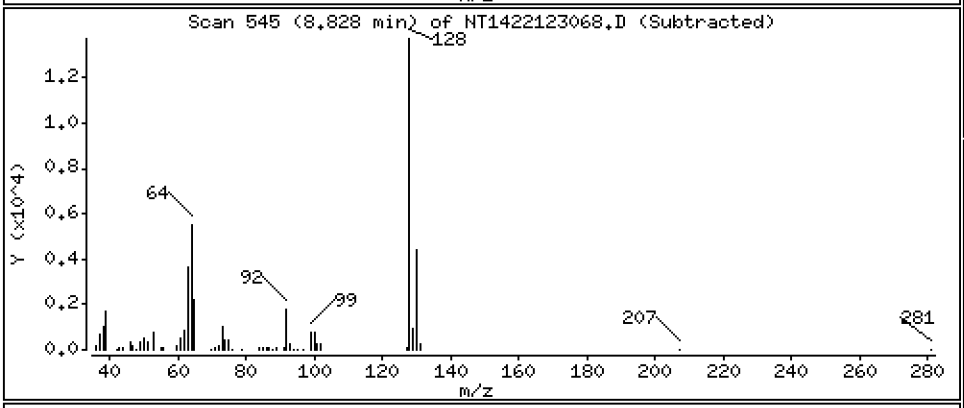
Column diameter: 0.25

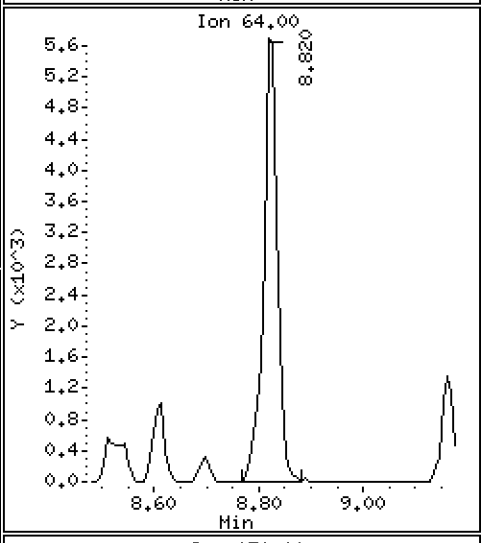
6 2-Chlorophenol

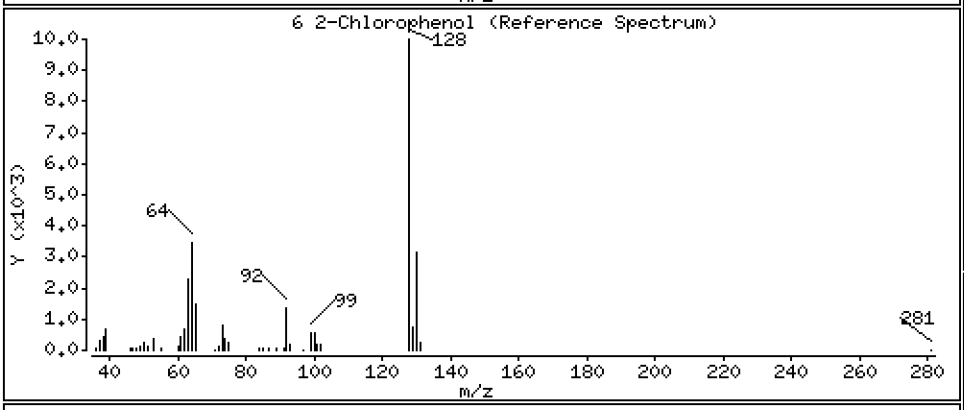
Concentration: 0.5163 ug/mL

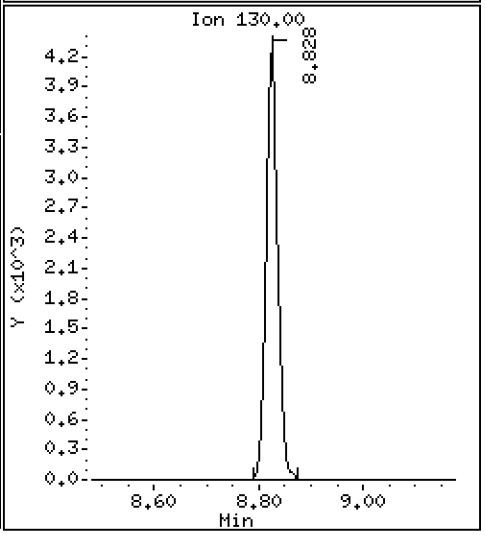


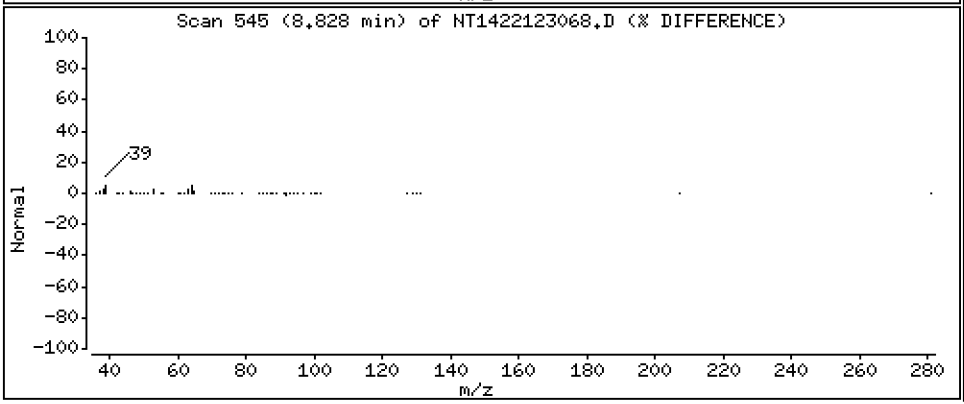












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

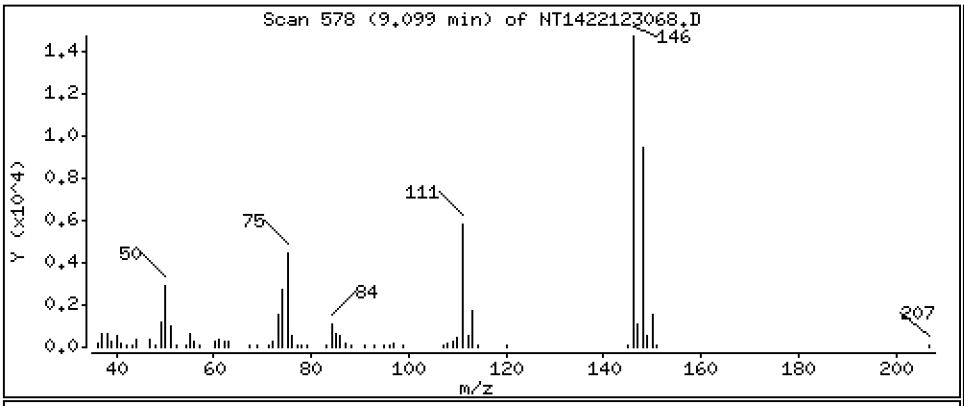
Operator: VTS

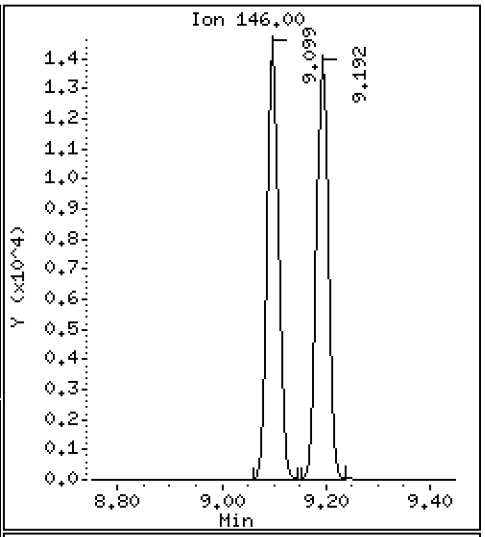
Column phase: ZB-5msi

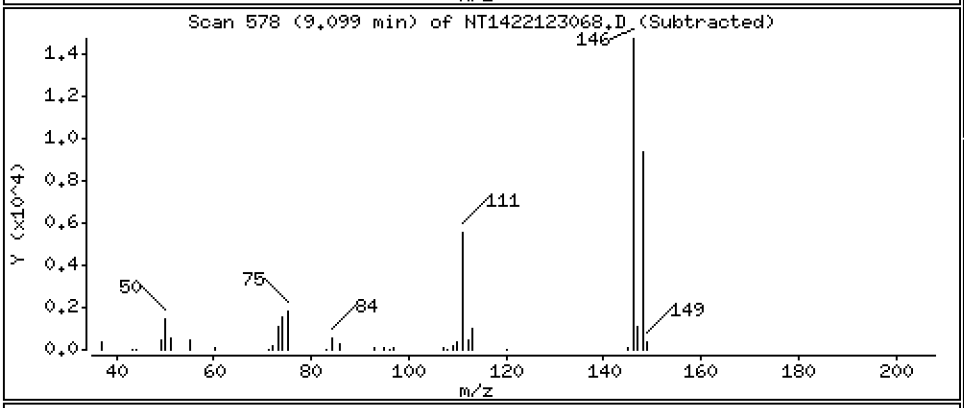
Column diameter: 0.25

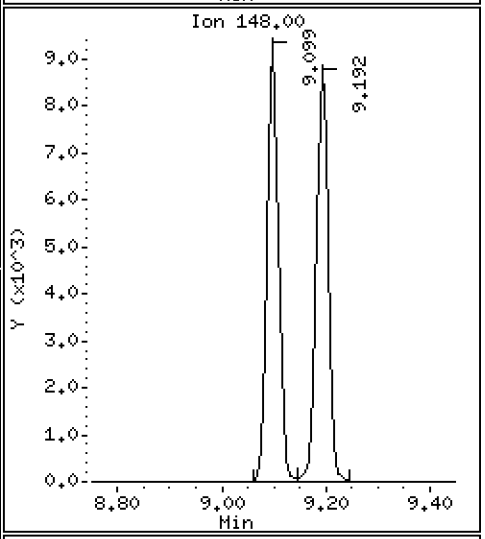
7 1,3-Dichlorobenzene

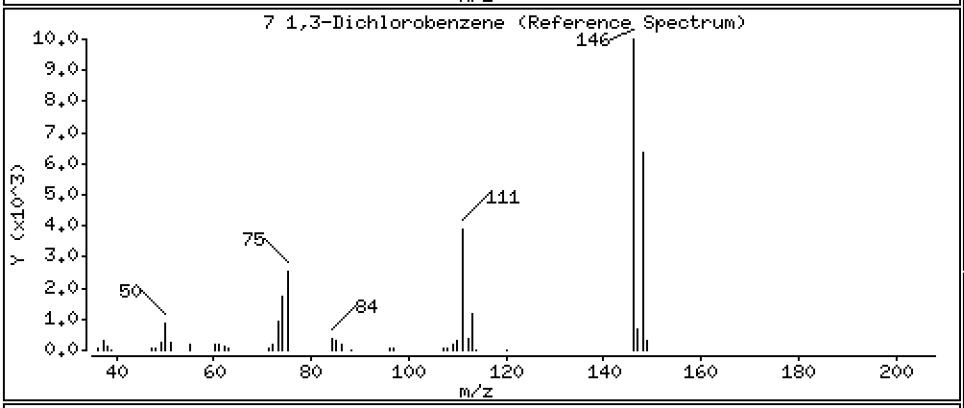
Concentration: 0.4981 ug/mL

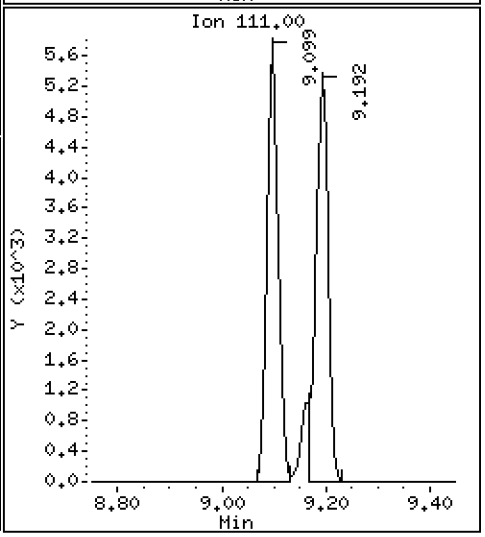


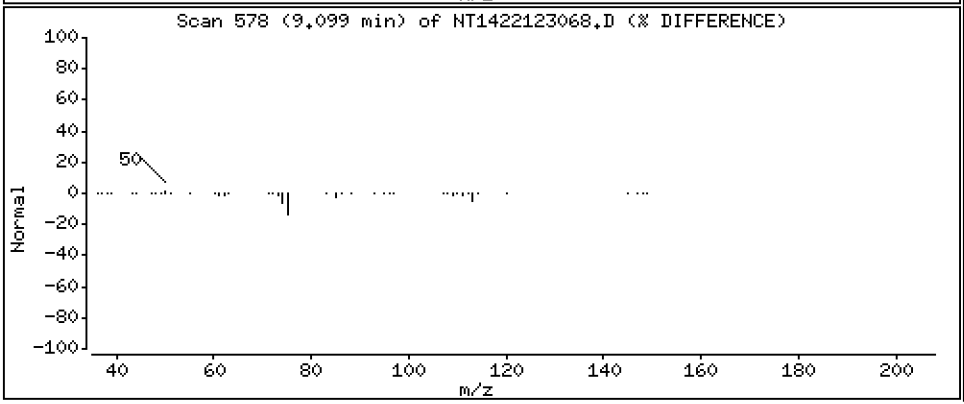












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

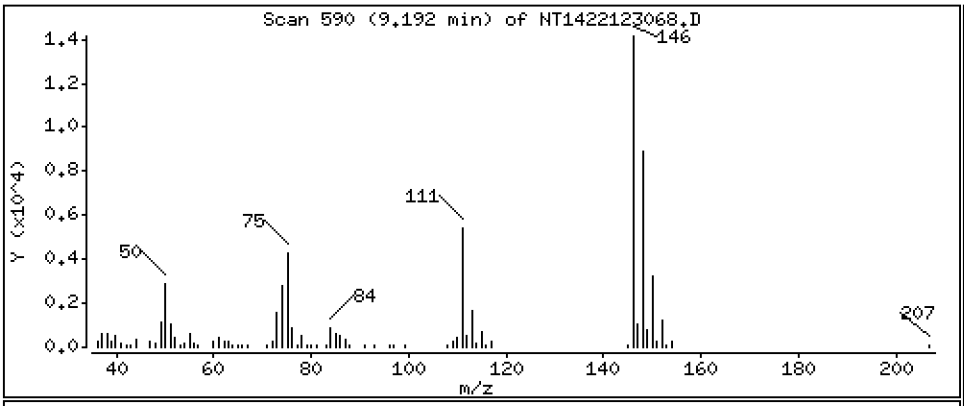
Operator: VTS

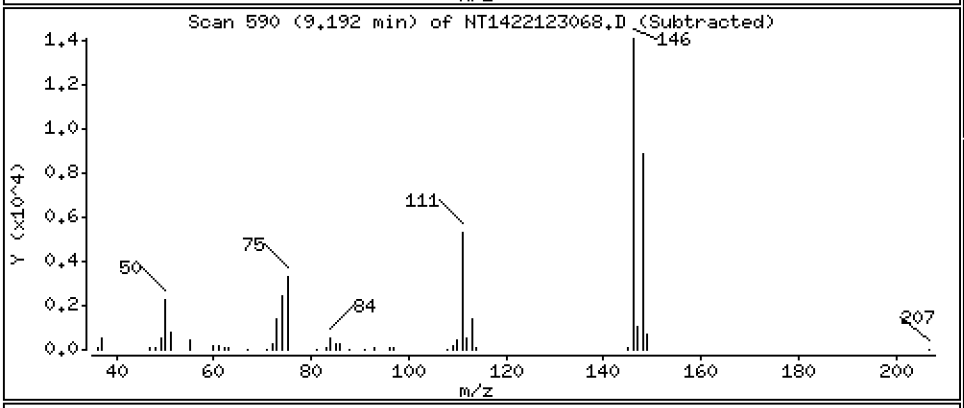
Column phase: ZB-5msi

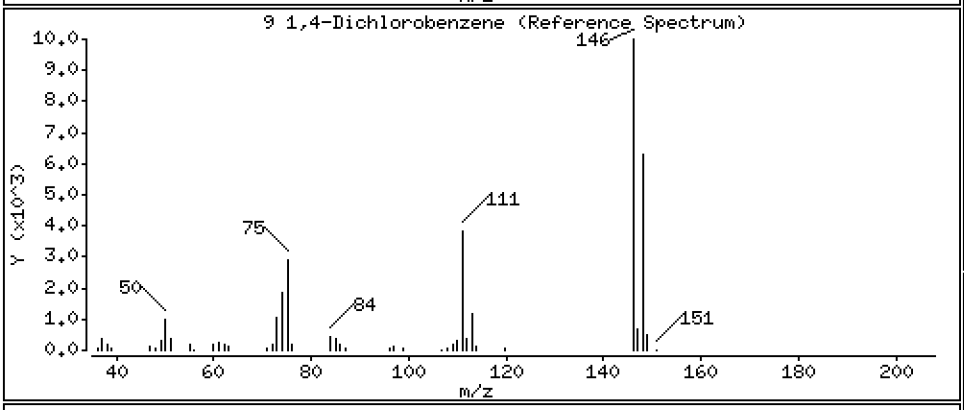
Column diameter: 0.25

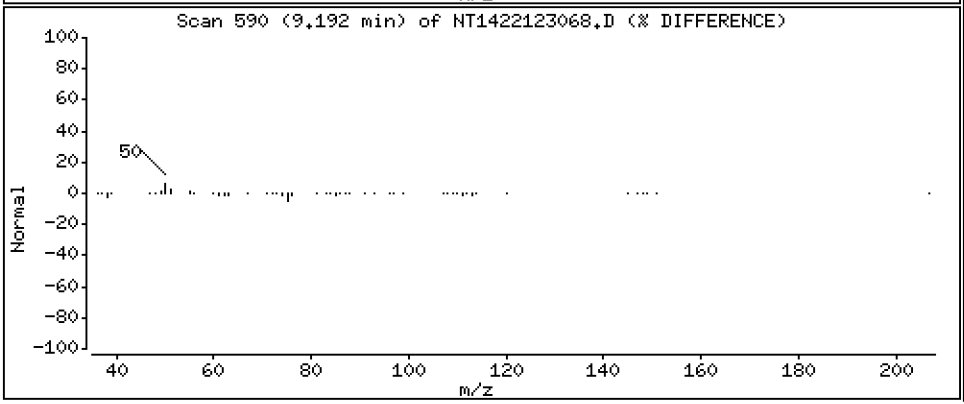
9 1,4-Dichlorobenzene

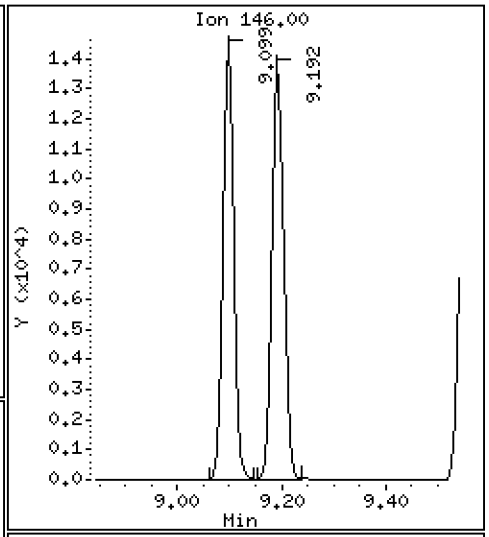
Concentration: 0.5068 ug/mL

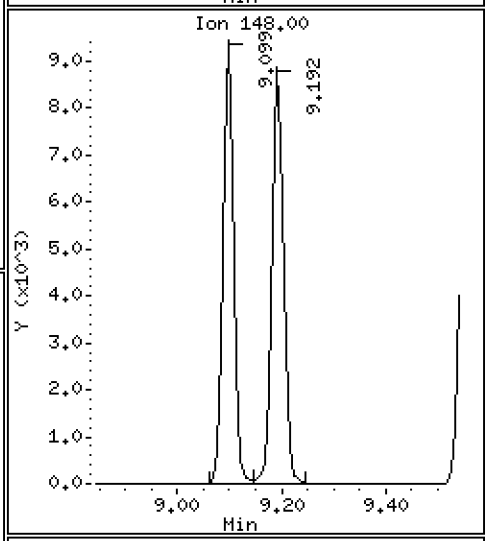


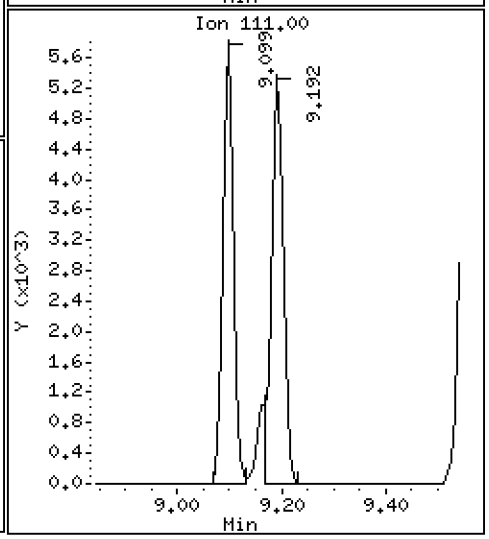












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

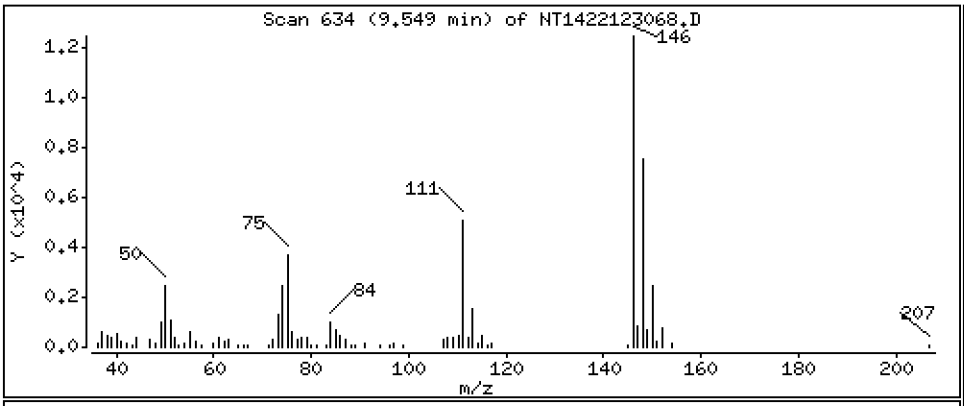
Operator: VTS

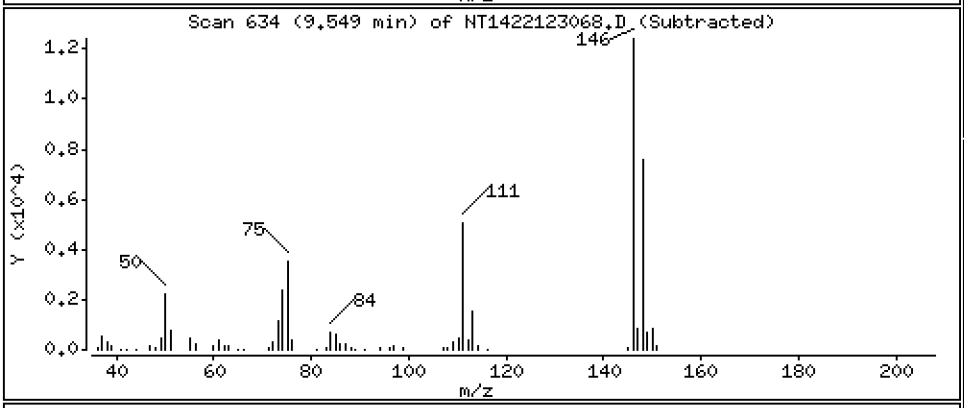
Column phase: ZB-5msi

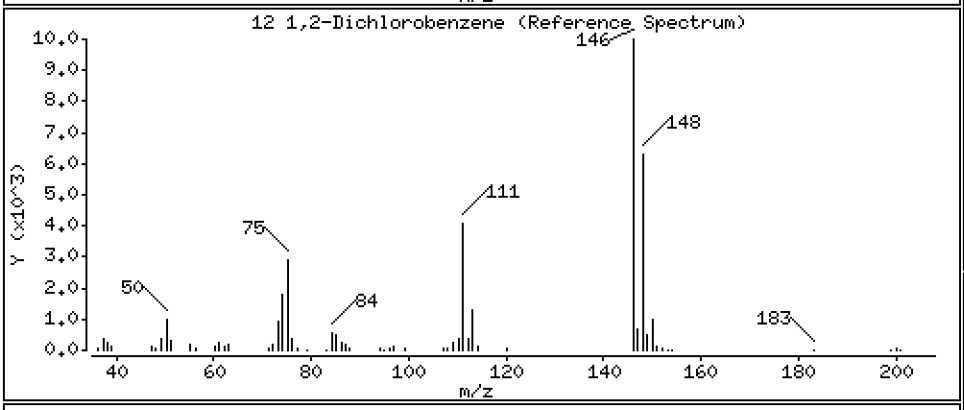
Column diameter: 0.25

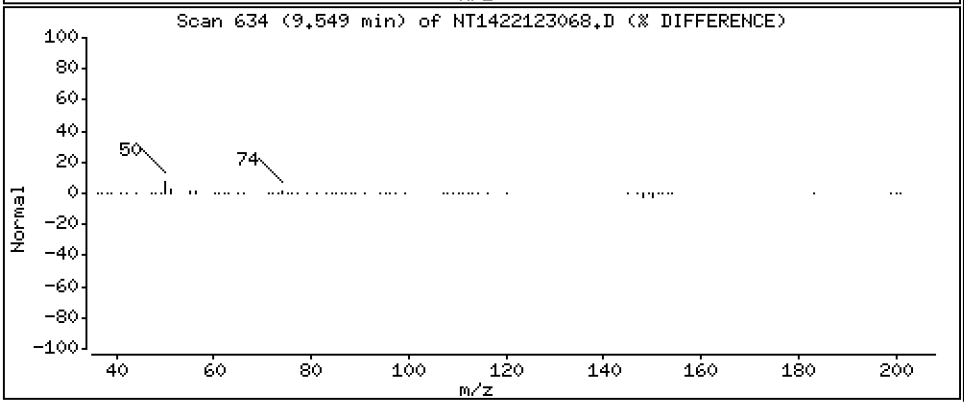
12 1,2-Dichlorobenzene

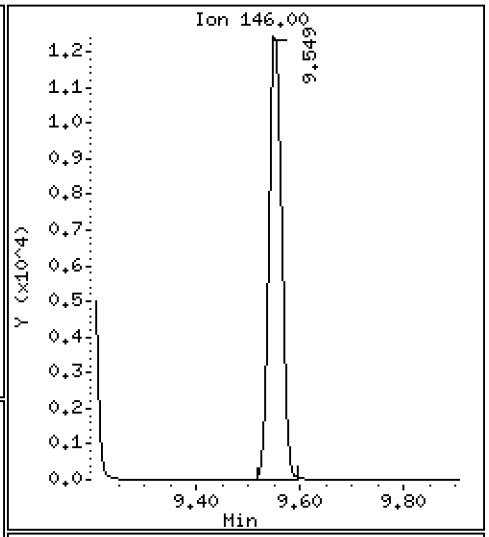
Concentration: 0.4961 ug/mL

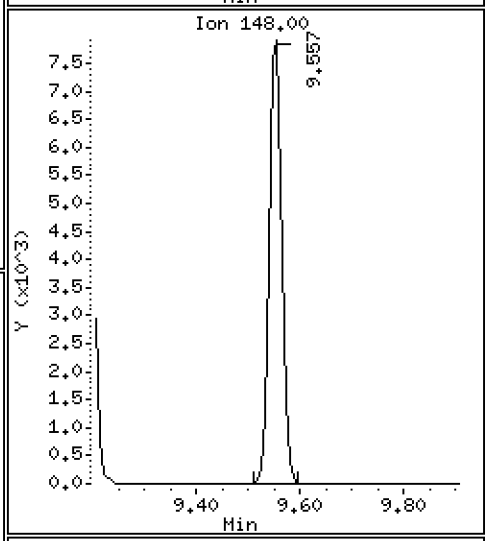


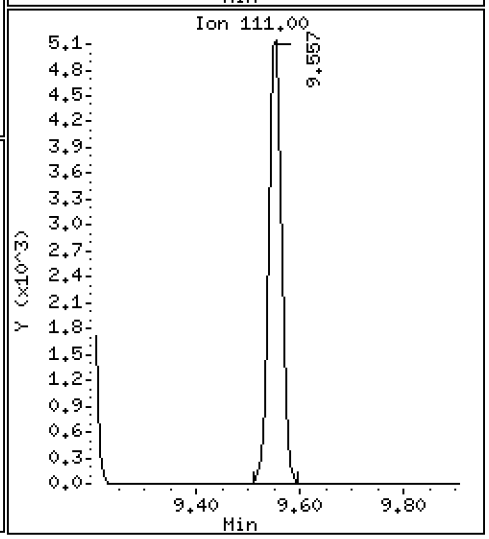












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123068.D

Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

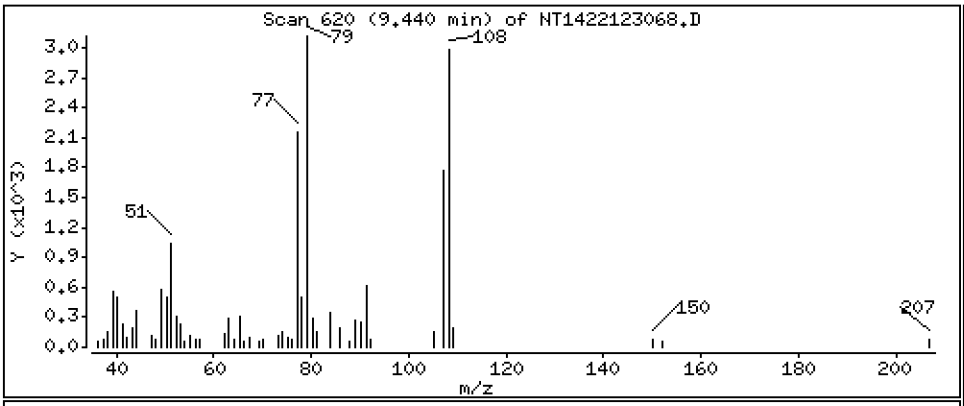
Operator: VTS

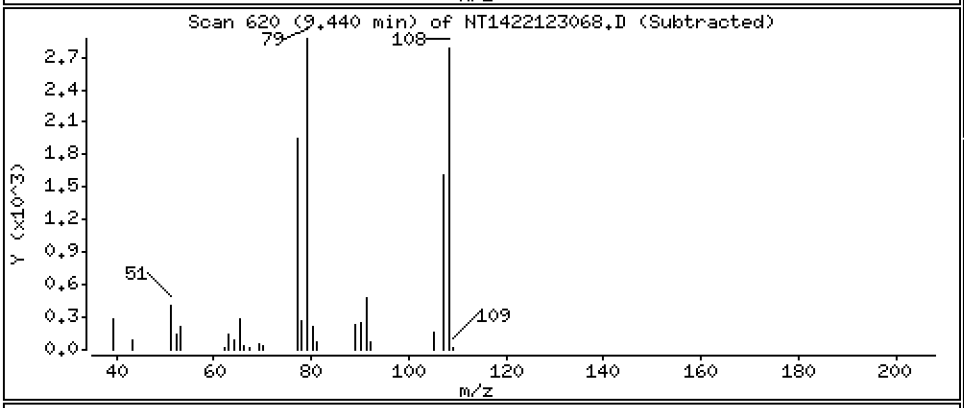
Column phase: ZB-5msi

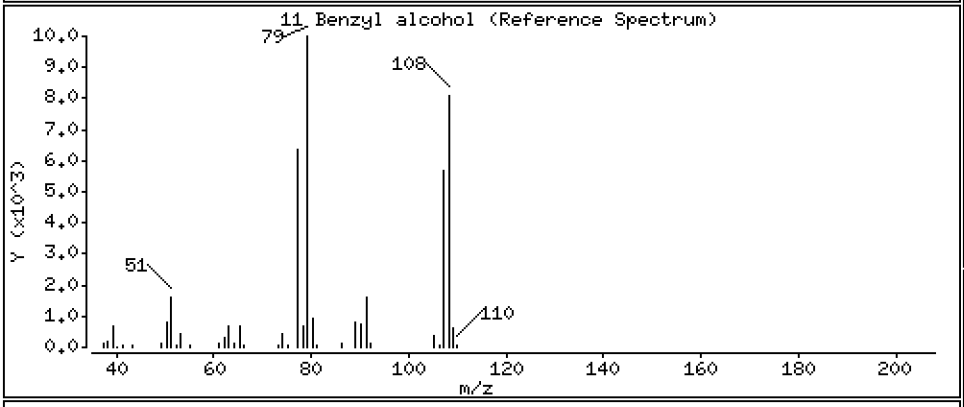
Column diameter: 0.25

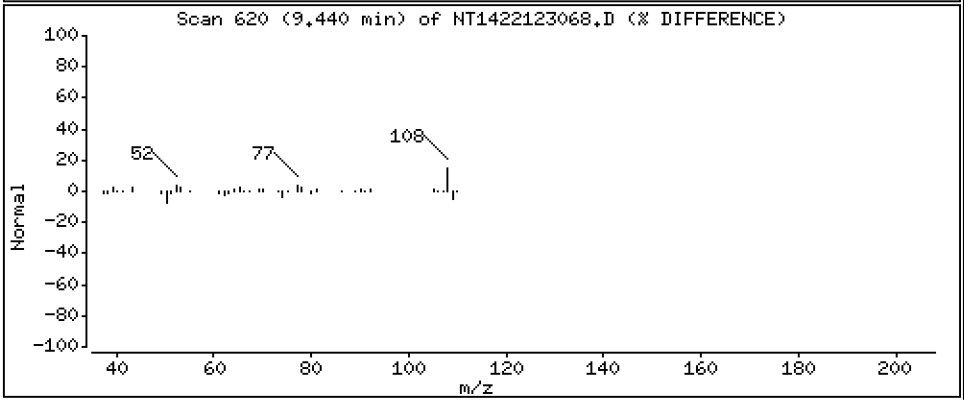
11 Benzyl alcohol

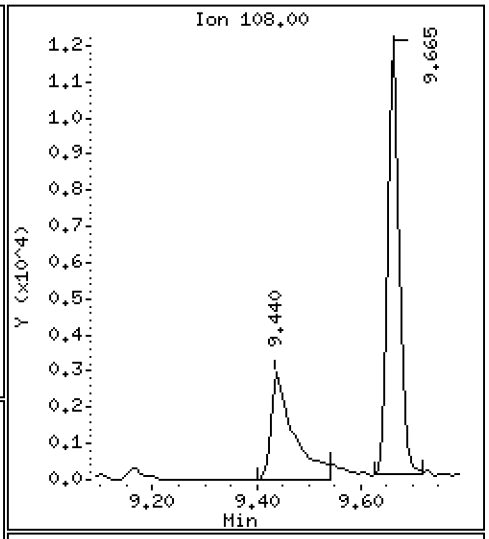
Concentration: 0.3869 ug/mL

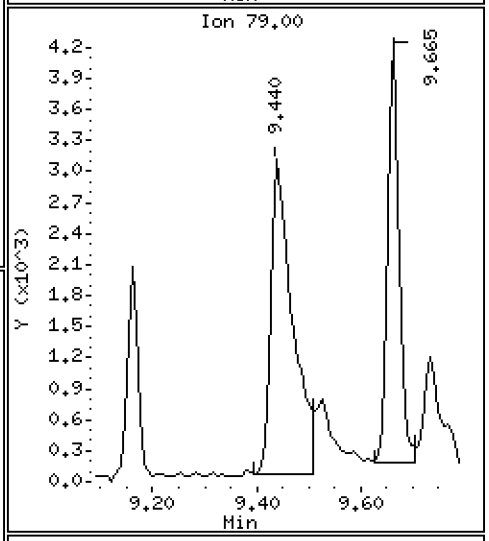


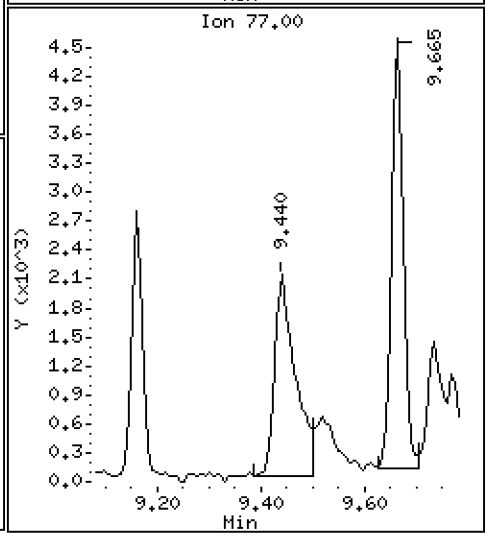












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

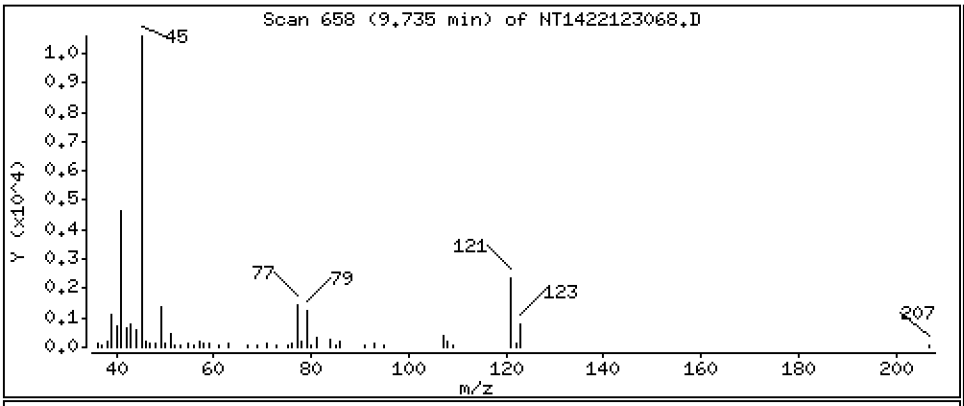
Operator: VTS

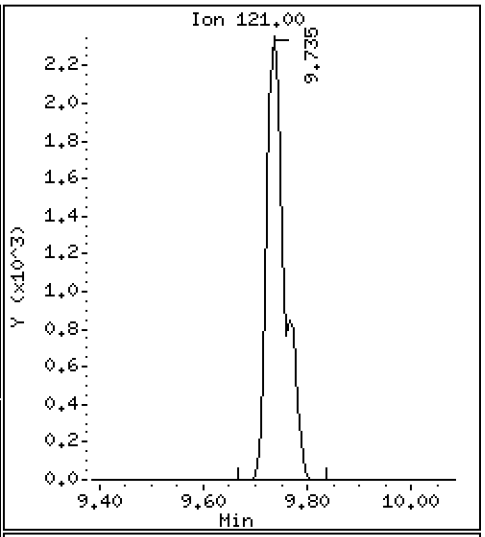
Column phase: ZB-5msi

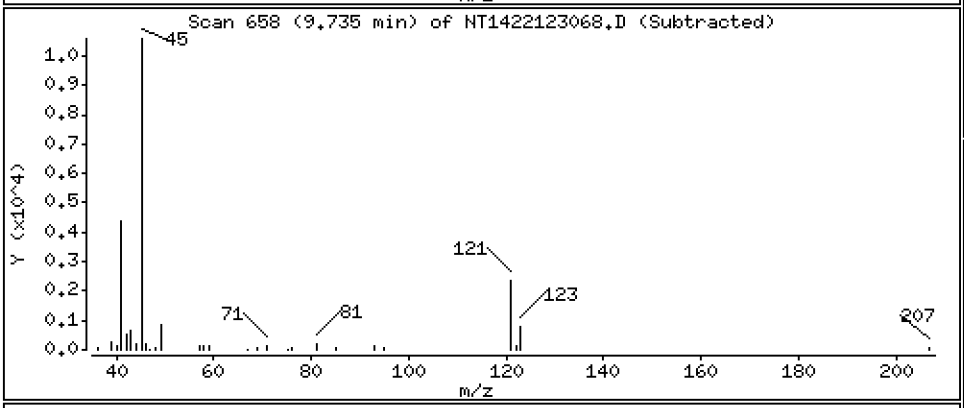
Column diameter: 0.25

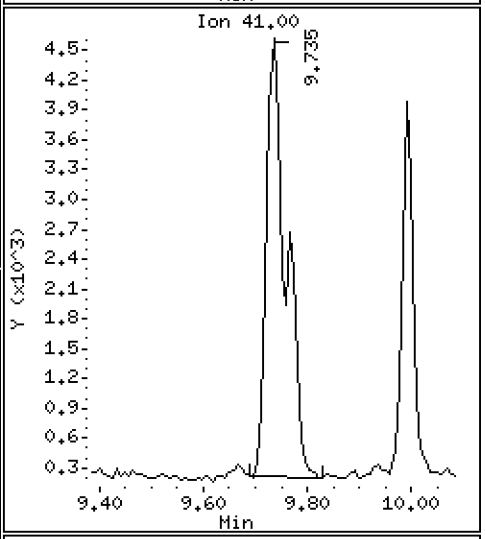
14 2,2'-oxybis(1-Chloropropane)

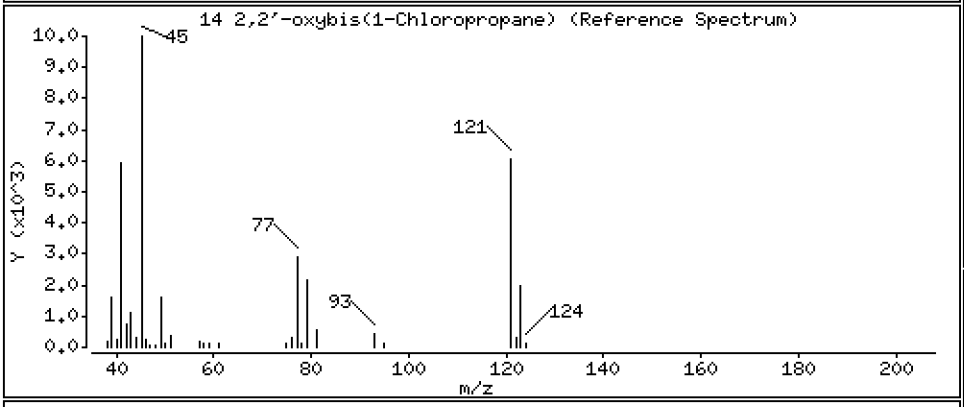
Concentration: 0.4728 ug/mL

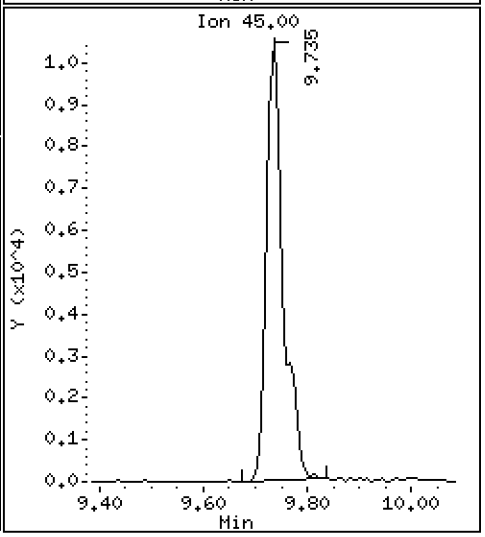


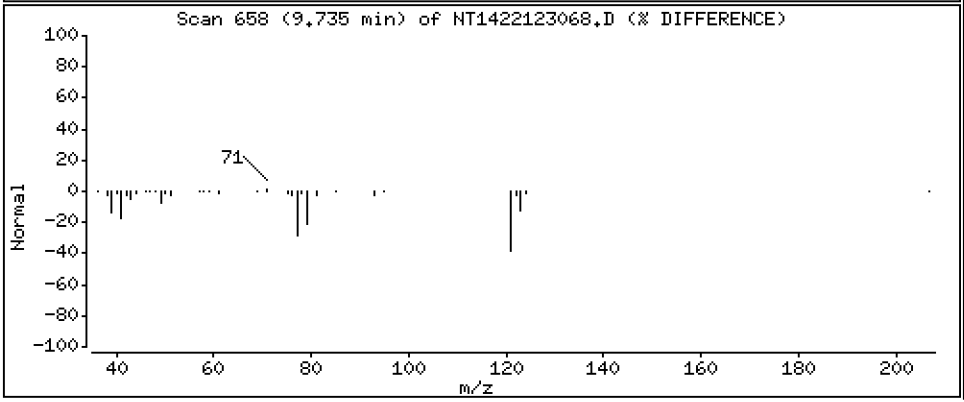












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

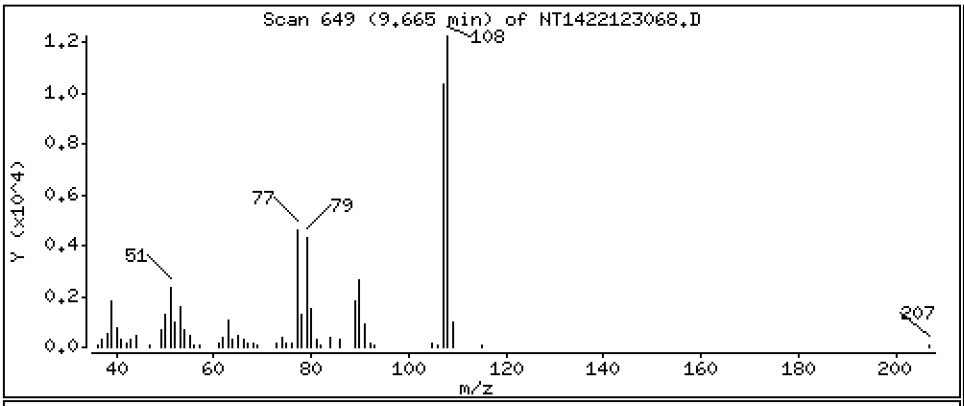
Operator: VTS

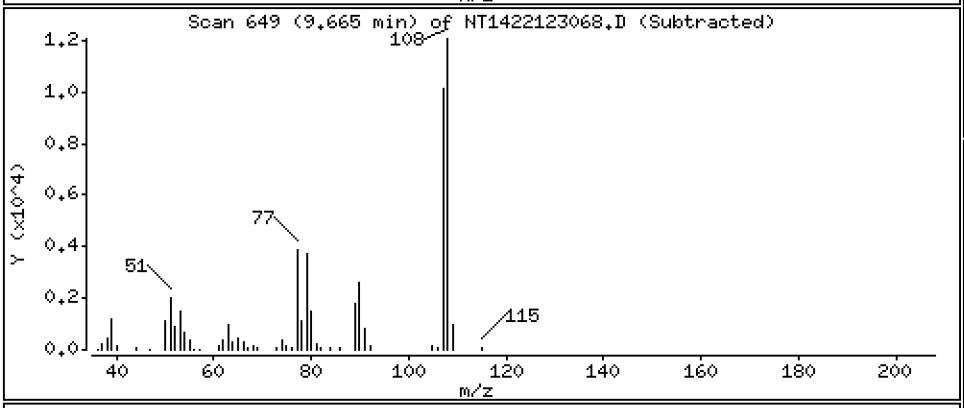
Column phase: ZB-5msi

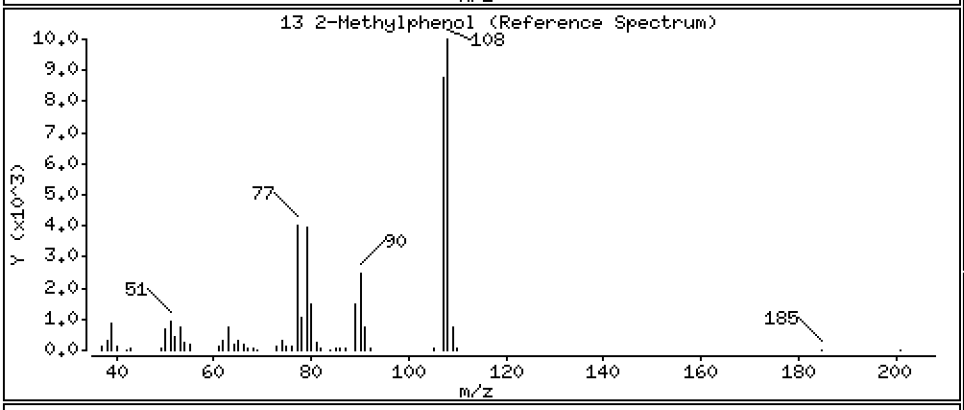
Column diameter: 0.25

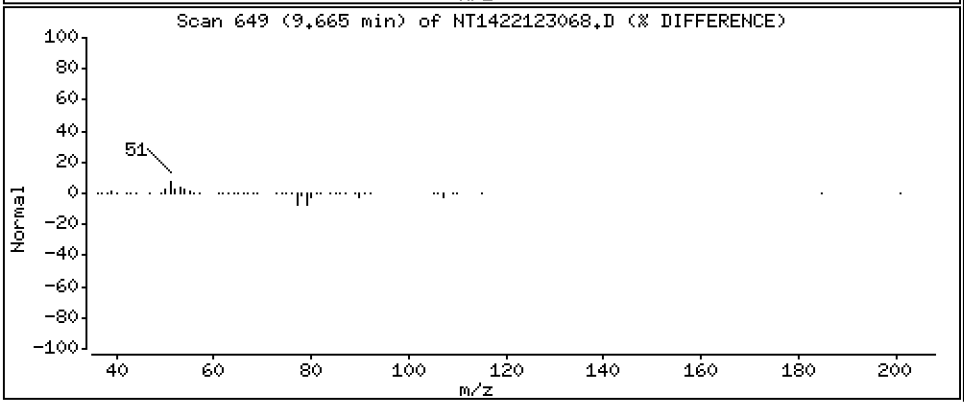
13 2-Methylphenol

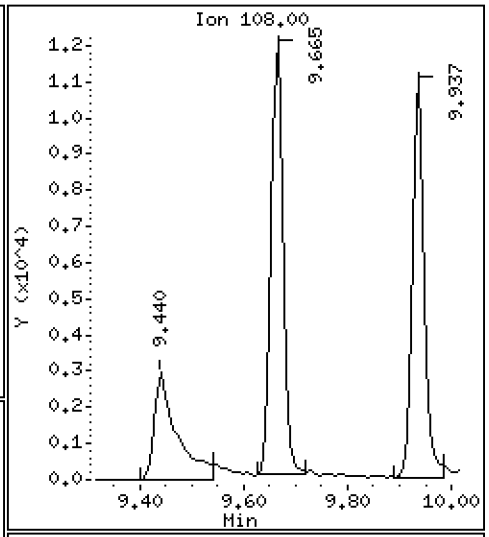
Concentration: 0.4871 ug/mL

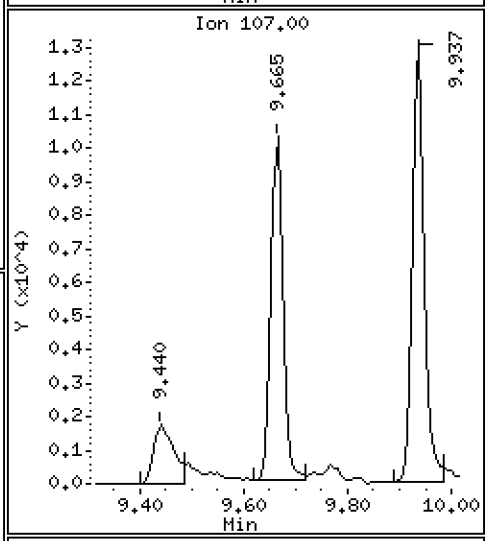


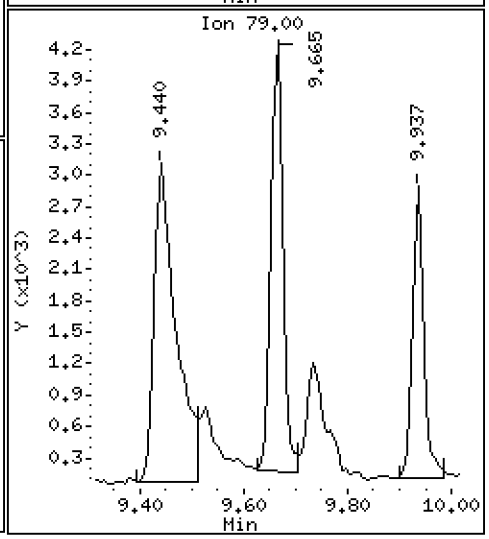












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

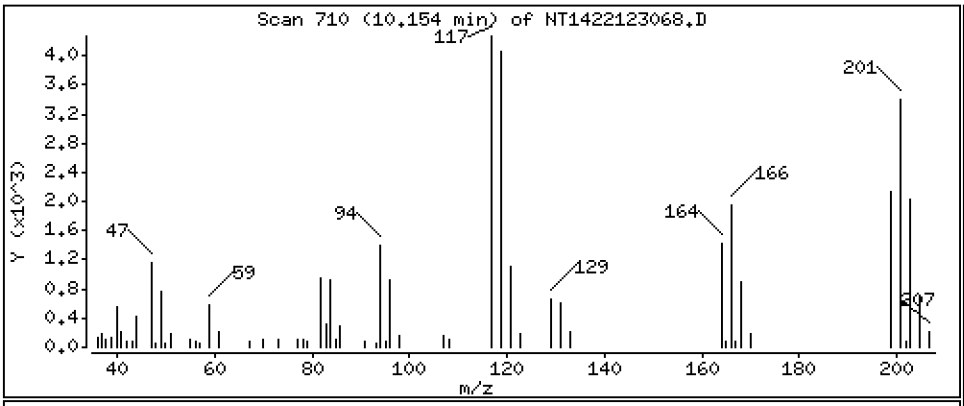
Operator: VTS

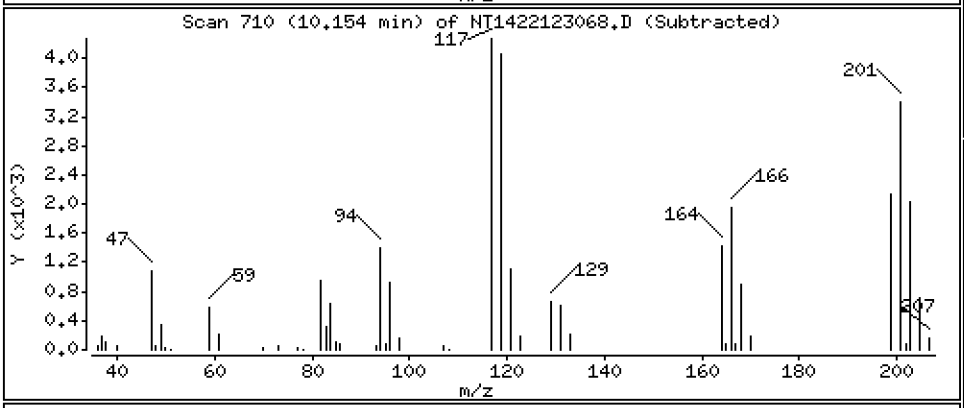
Column phase: ZB-5msi

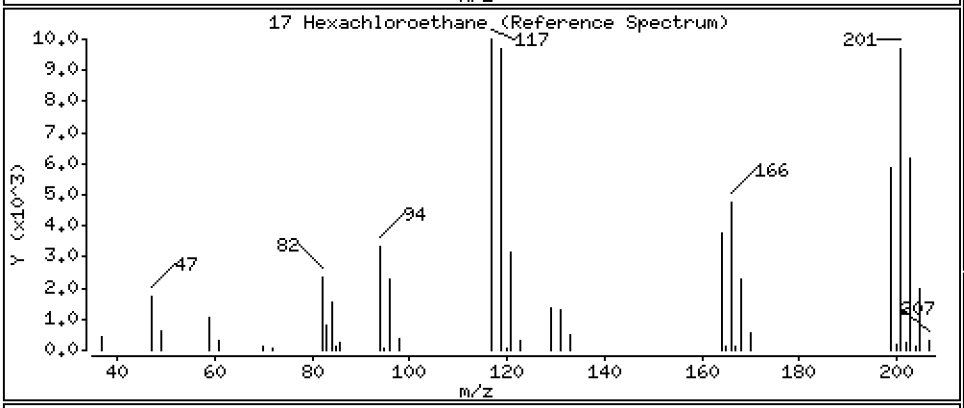
Column diameter: 0.25

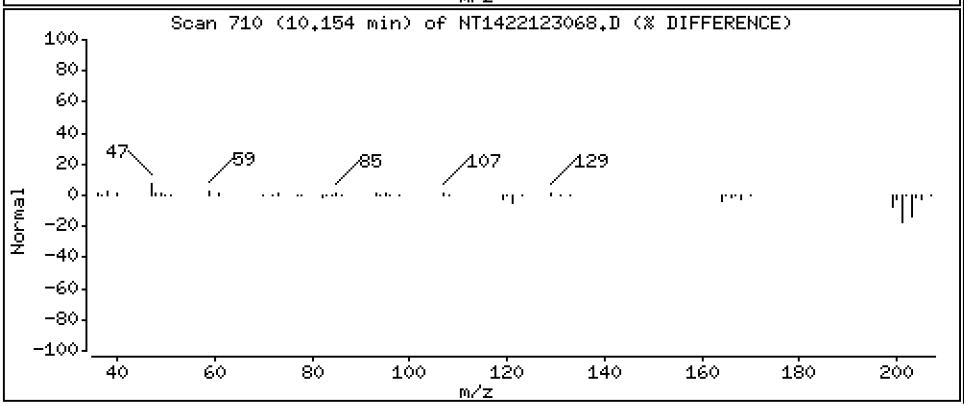
17 Hexachloroethane

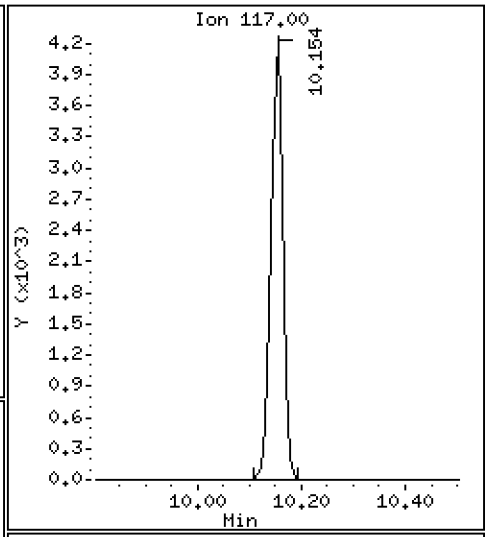
Concentration: 0.4126 ug/mL

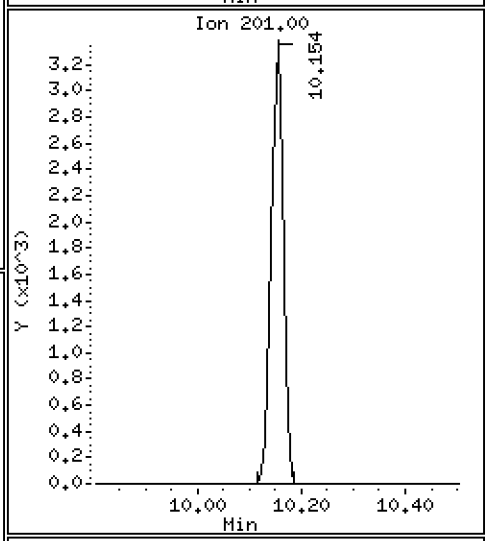


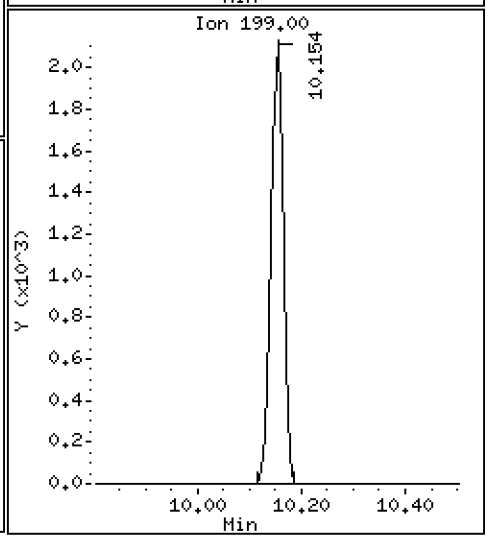












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

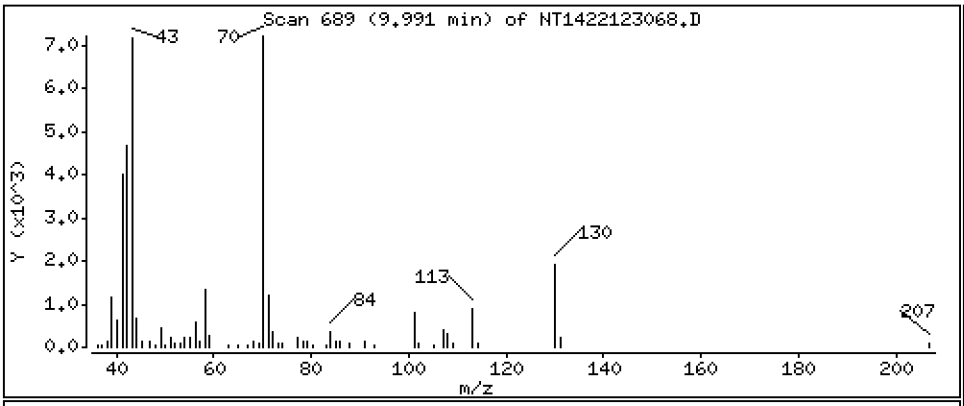
Operator: VTS

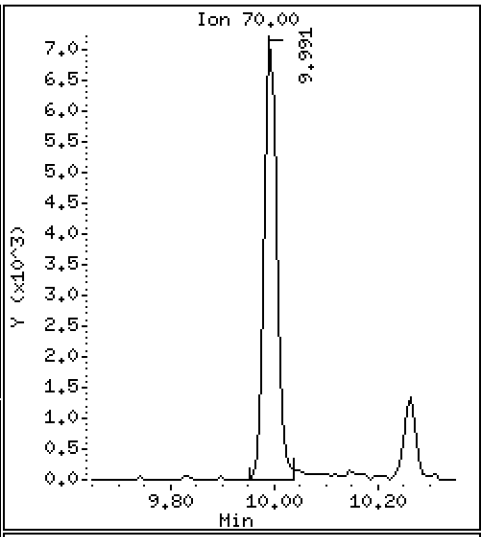
Column phase: ZB-5msi

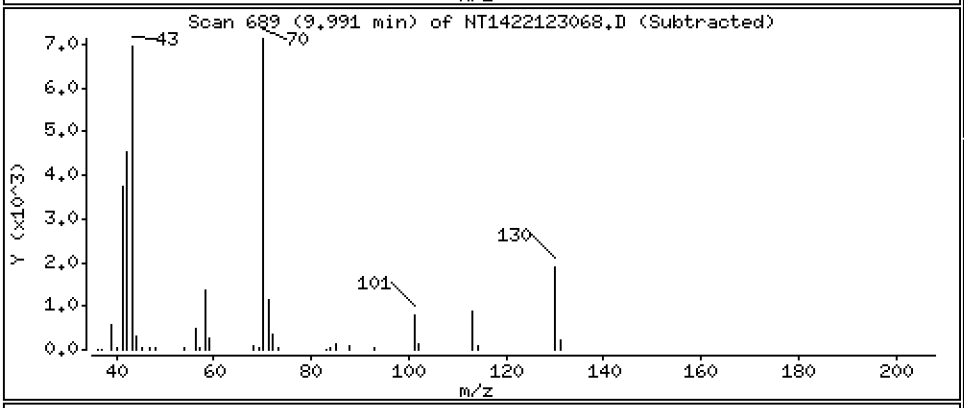
Column diameter: 0.25

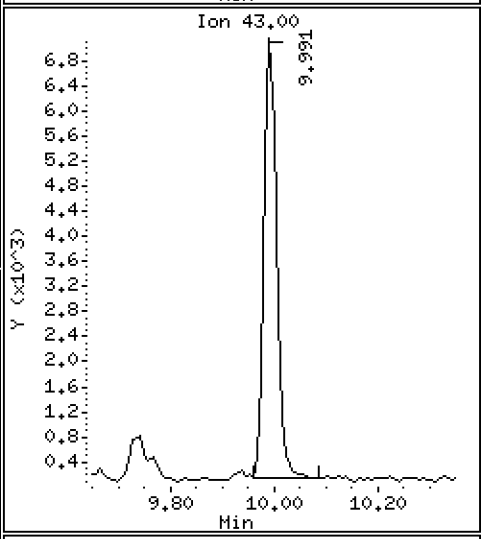
16 N-Nitroso-di-n-propylamine

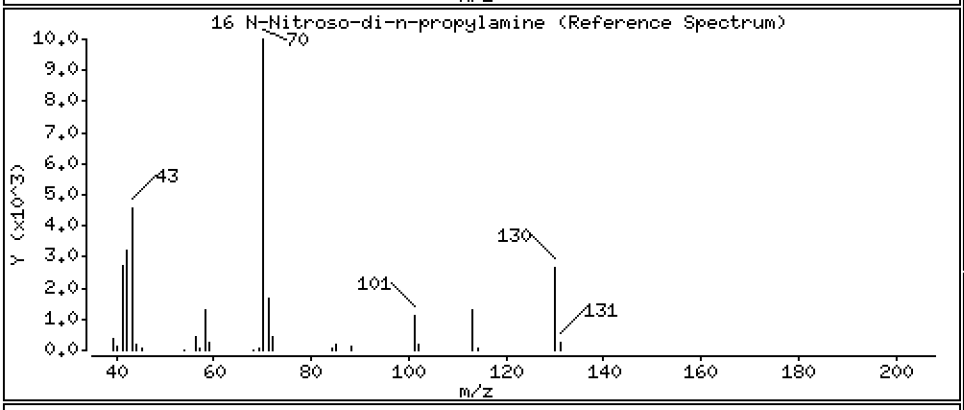
Concentration: 0.5075 ug/mL

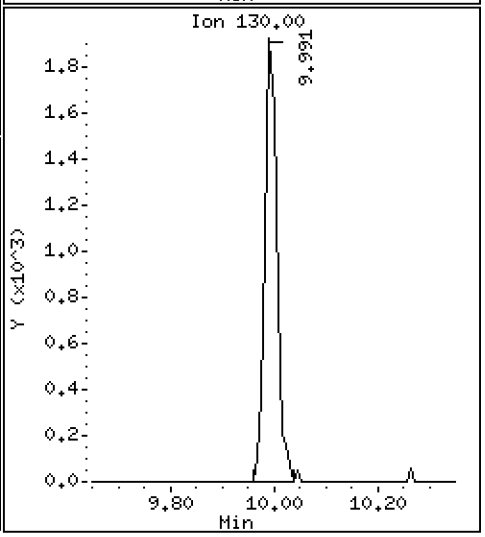


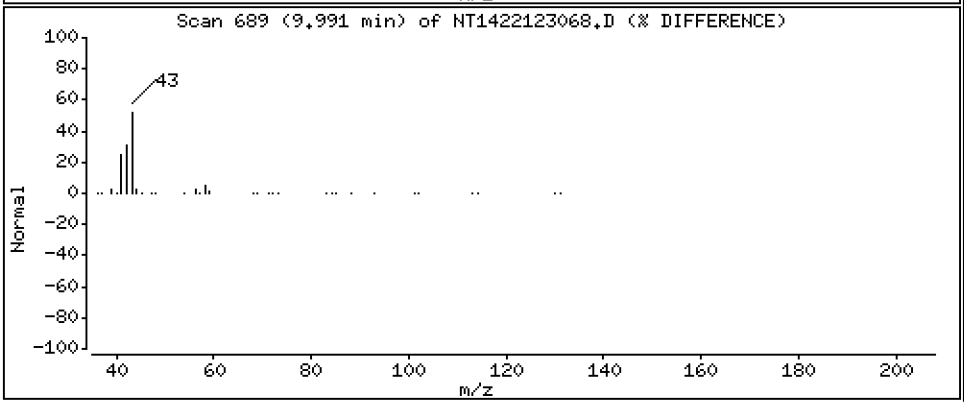












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

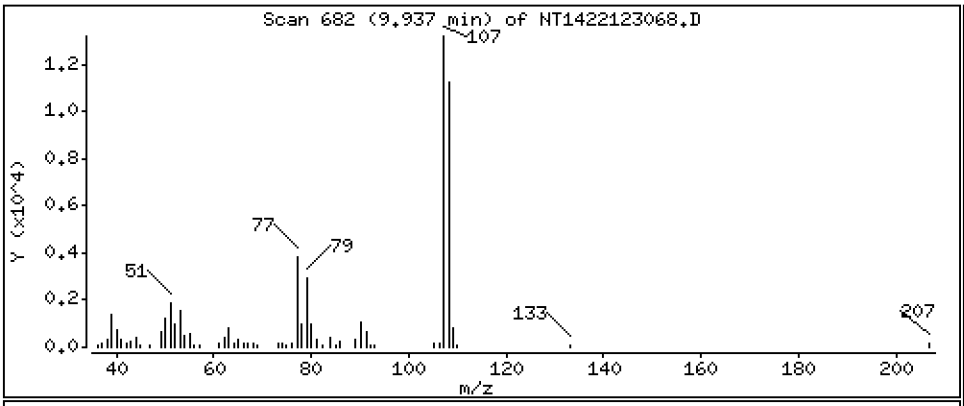
Operator: VTS

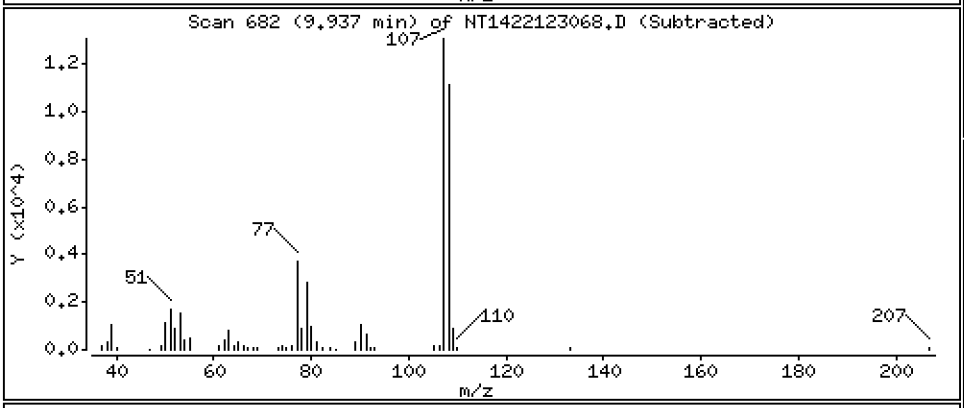
Column phase: ZB-5msi

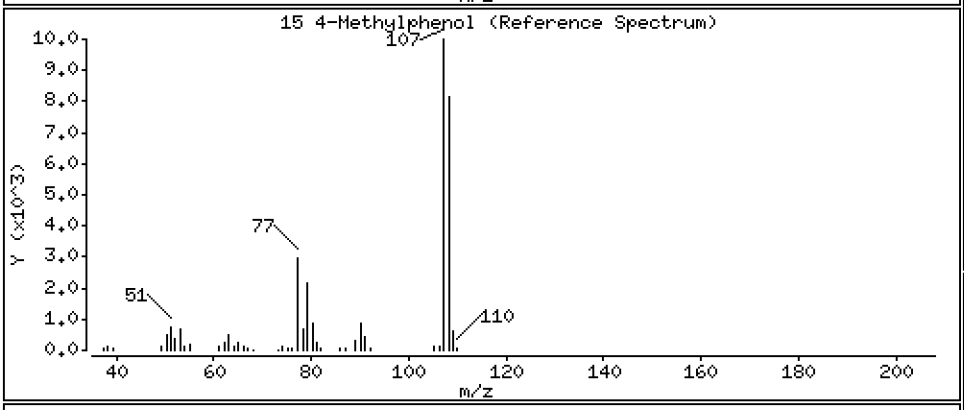
Column diameter: 0.25

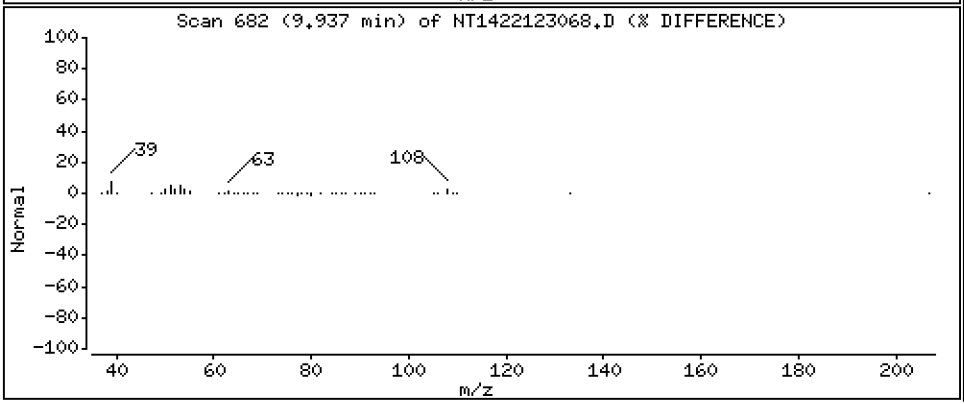
15 4-Methylphenol

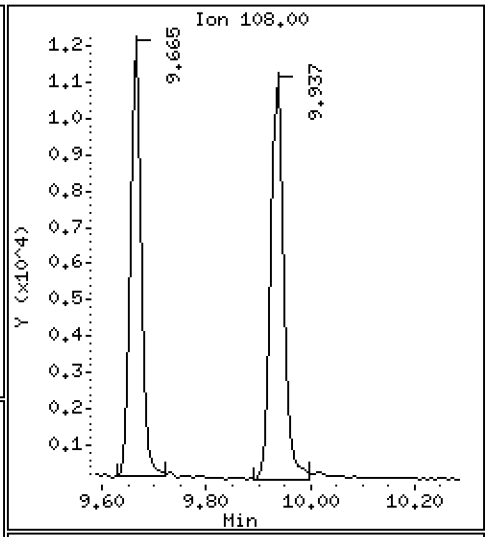
Concentration: 0.4654 ug/mL

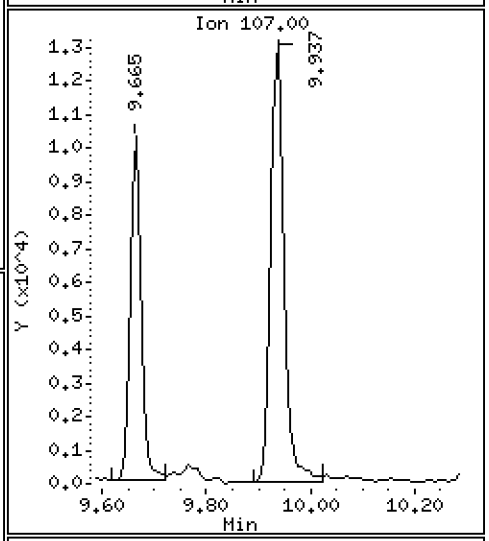


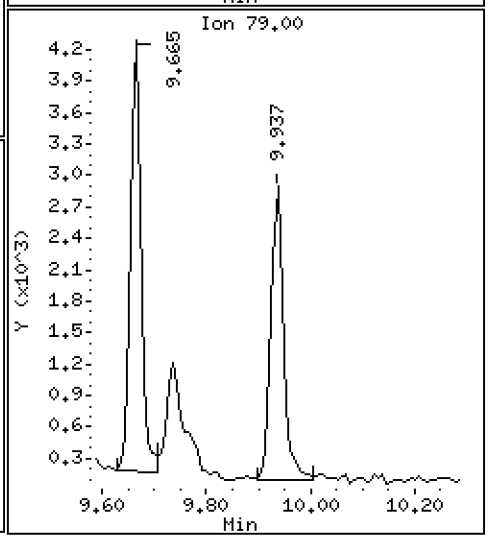












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

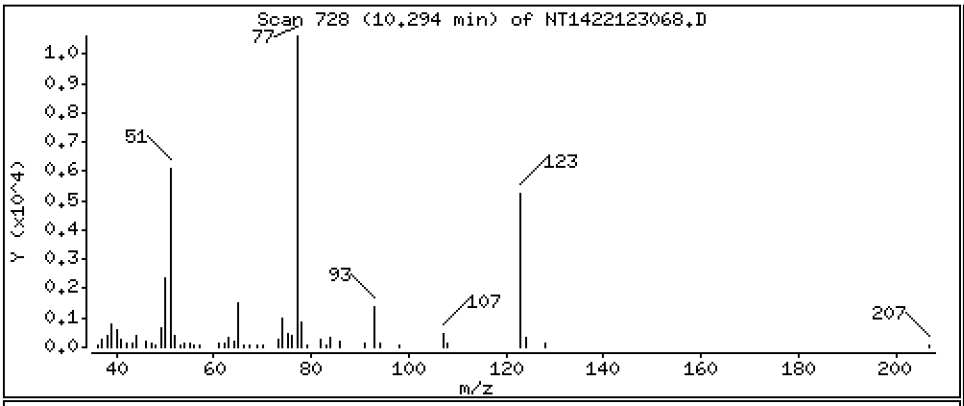
Operator: VTS

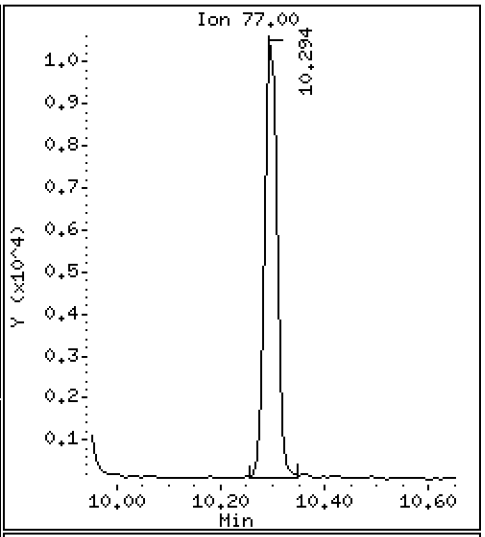
Column phase: ZB-5msi

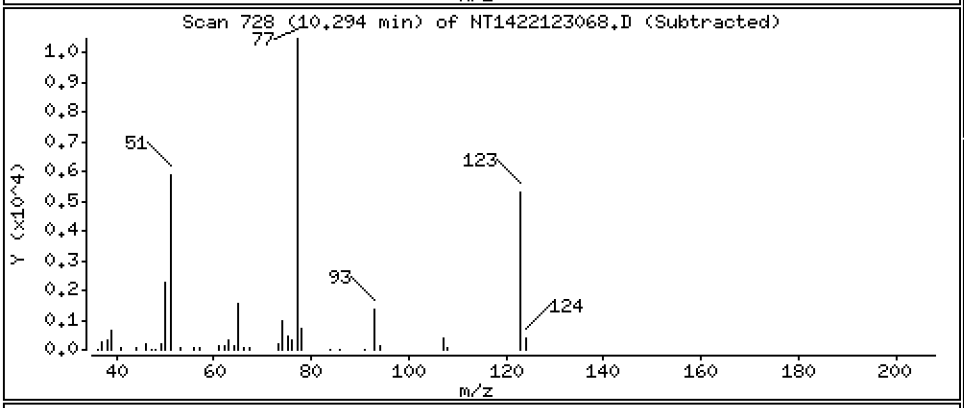
Column diameter: 0.25

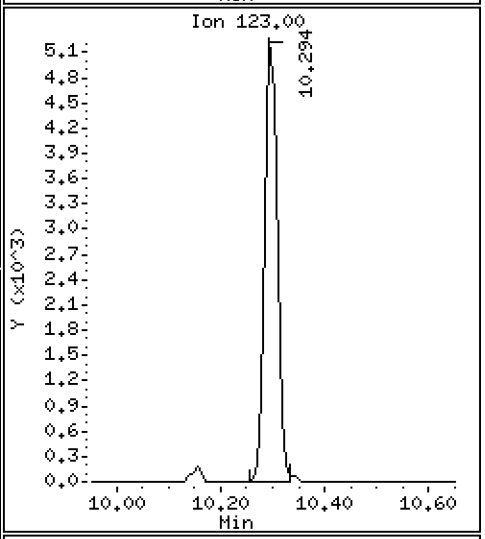
19 Nitrobenzene

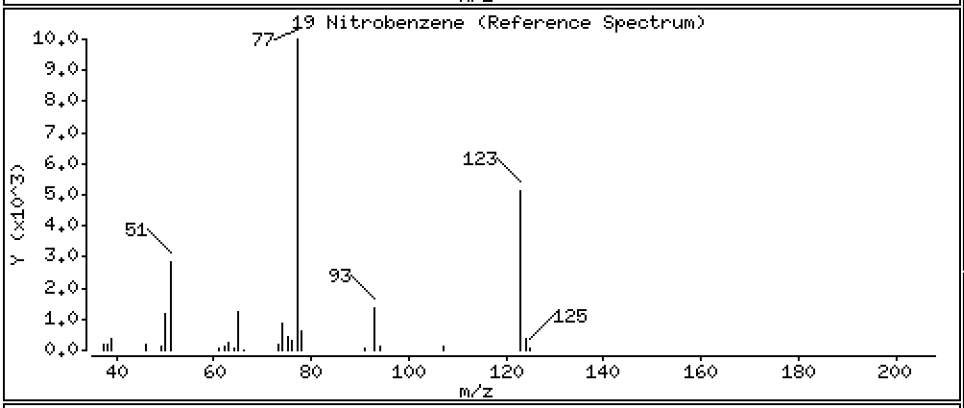
Concentration: 0.4693 ug/mL

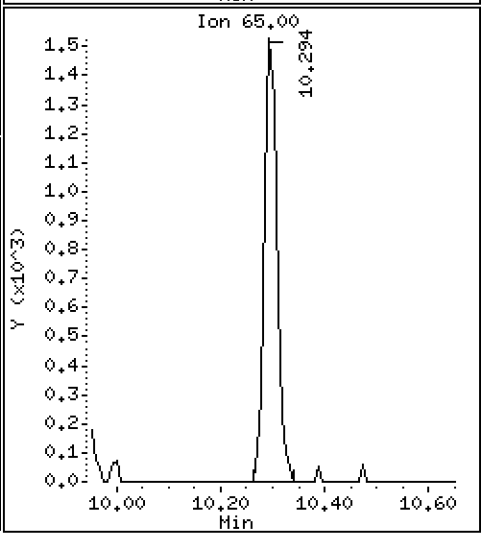


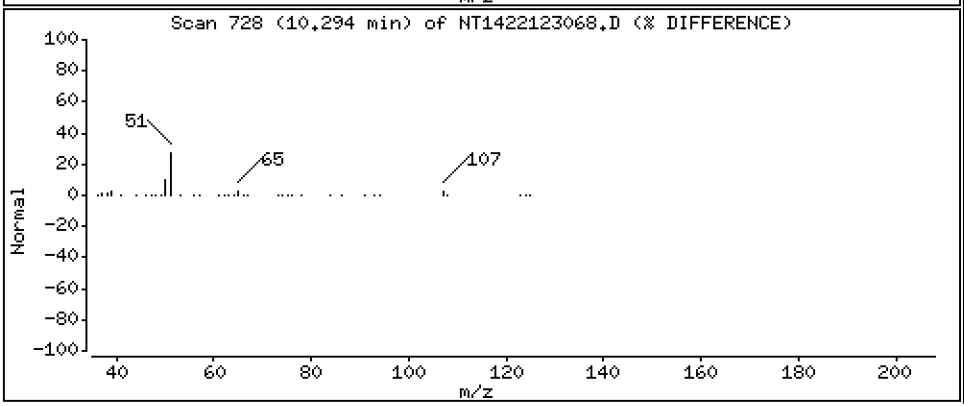












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

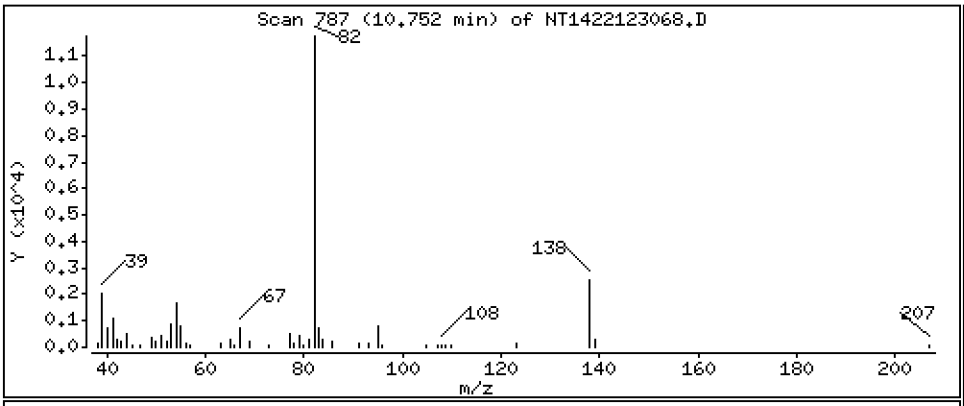
Operator: VTS

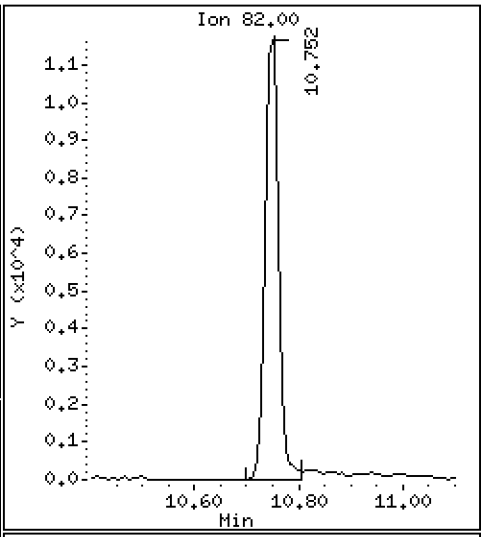
Column phase: ZB-5msi

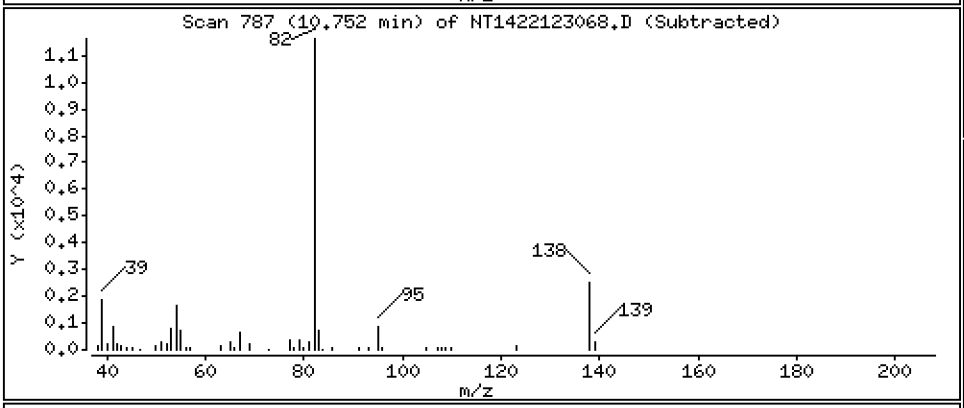
Column diameter: 0.25

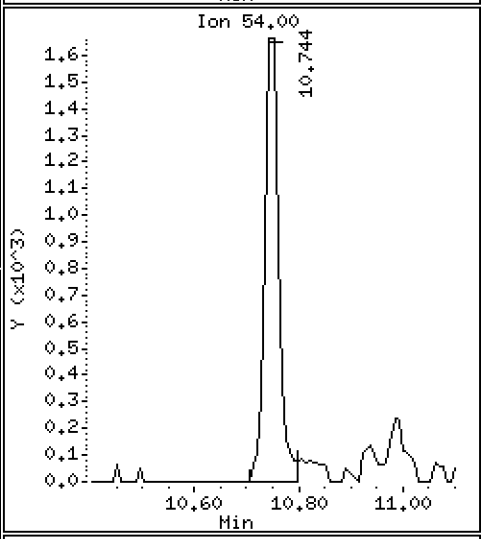
20 Isophorone

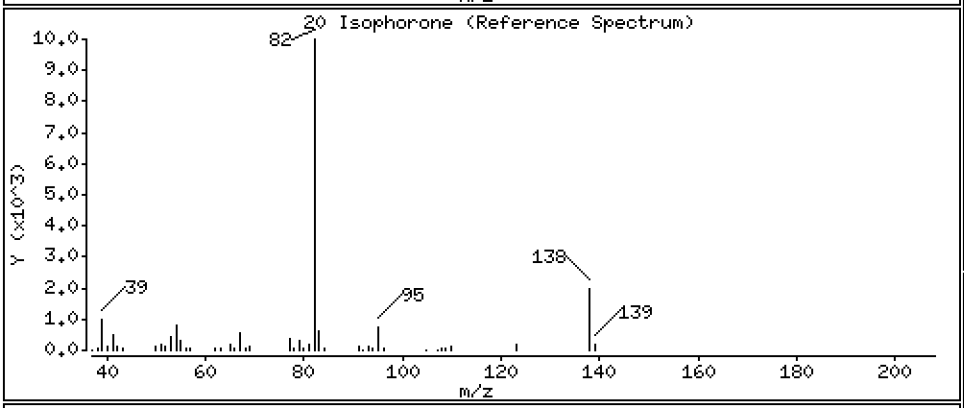
Concentration: 0.4524 ug/mL

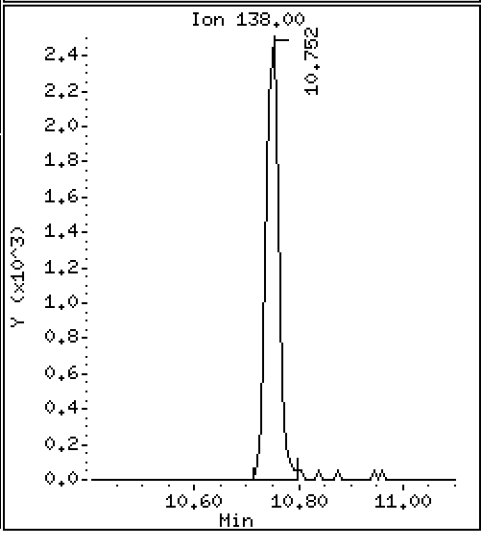


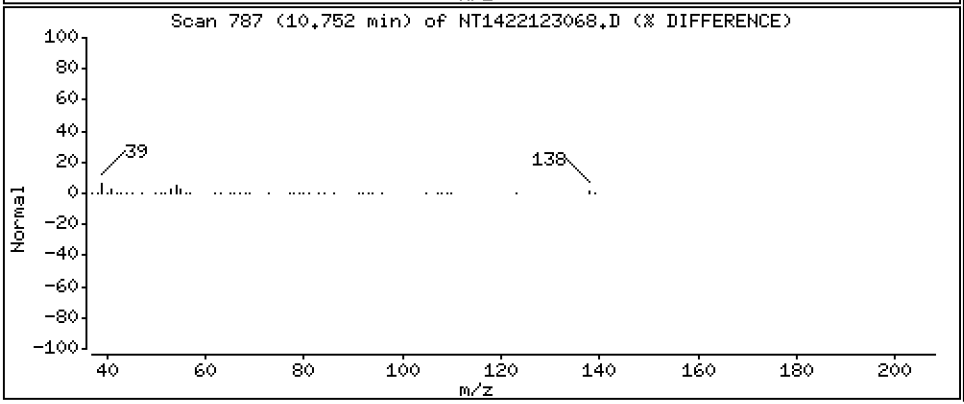












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

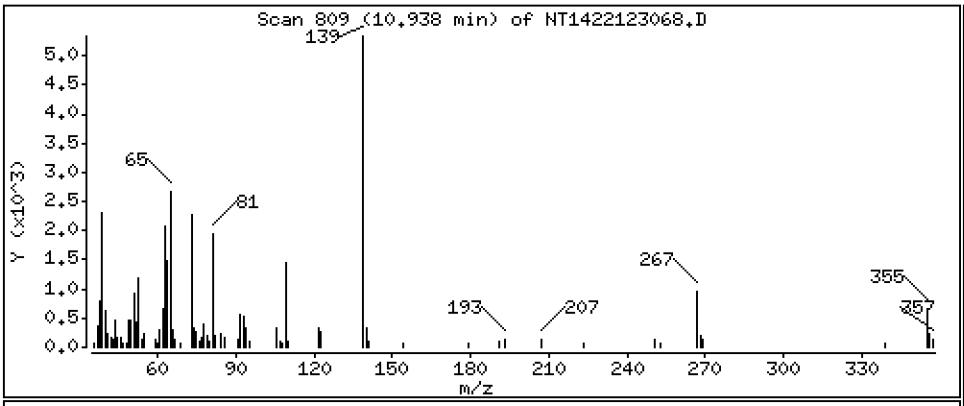
Operator: VTS

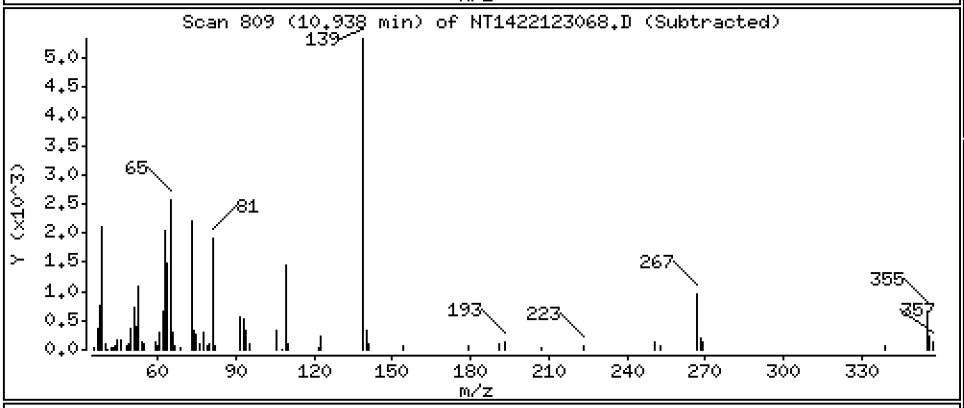
Column phase: ZB-5msi

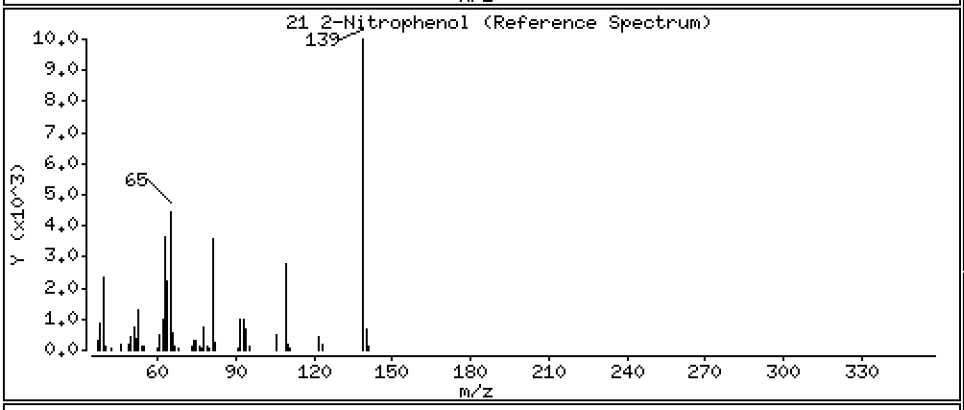
Column diameter: 0.25

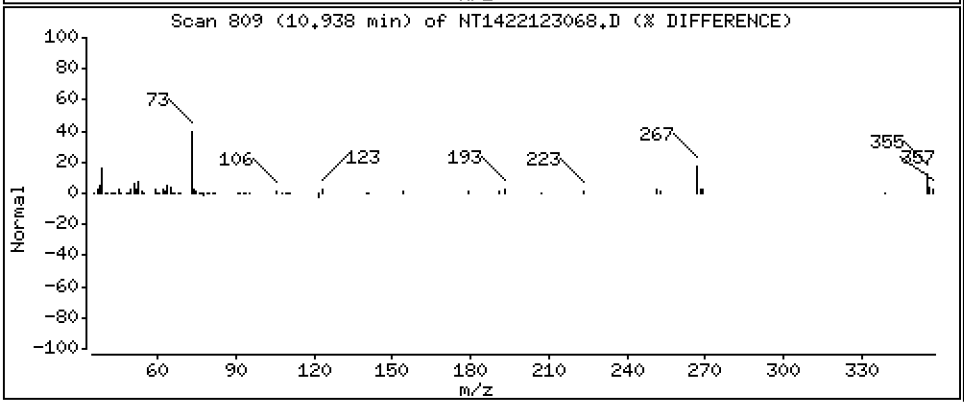
21 2-Nitrophenol

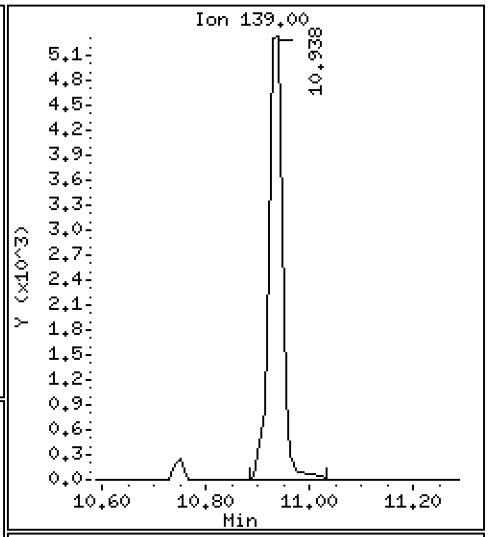
Concentration: 0.4732 ug/mL

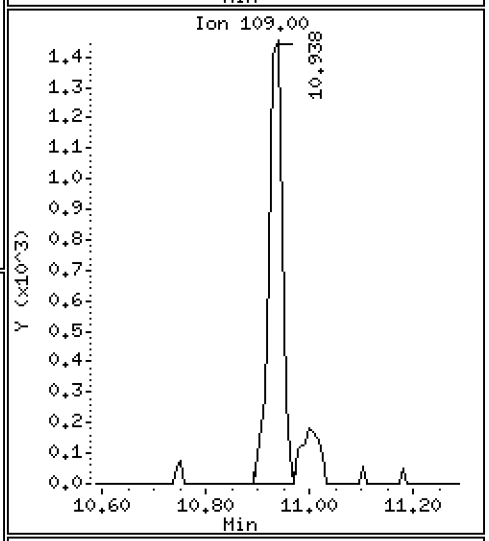


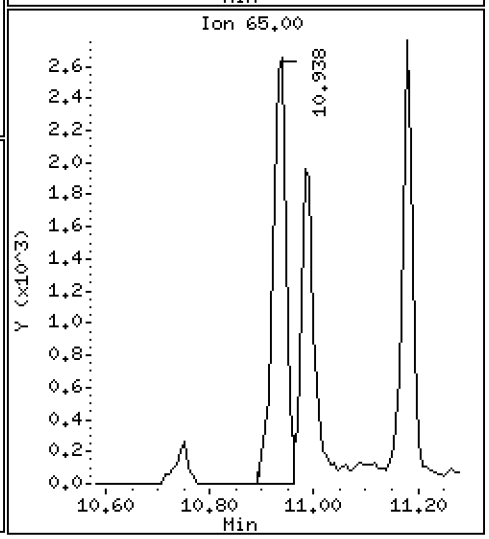












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

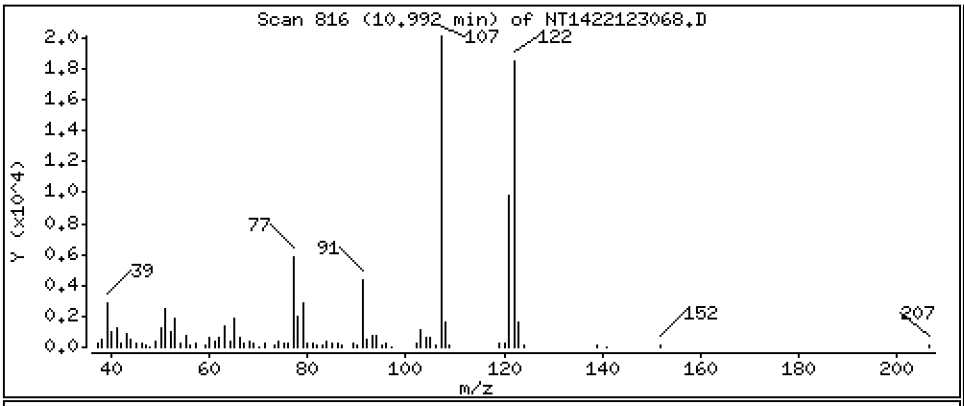
Operator: VTS

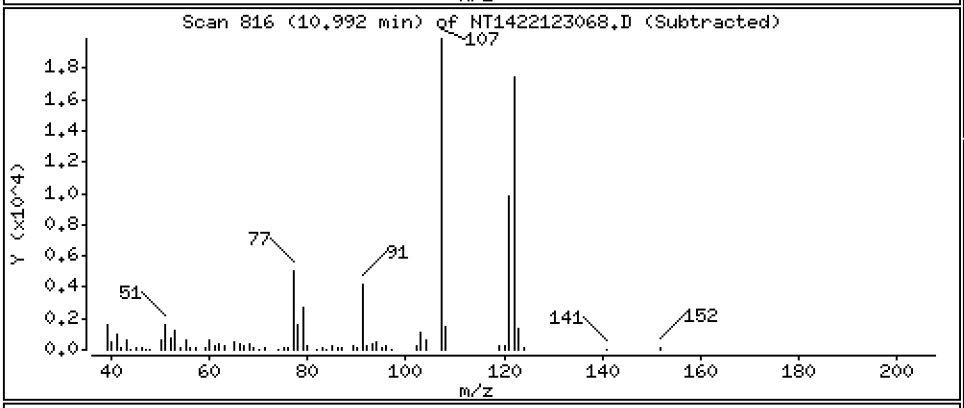
Column phase: ZB-5msi

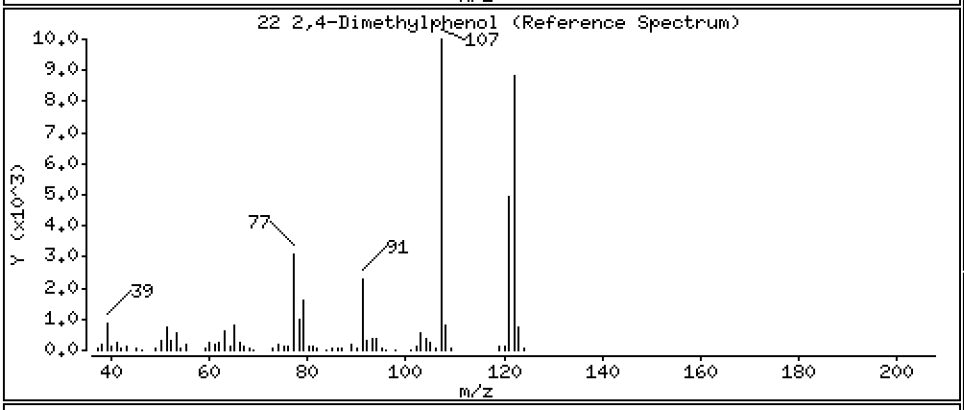
Column diameter: 0.25

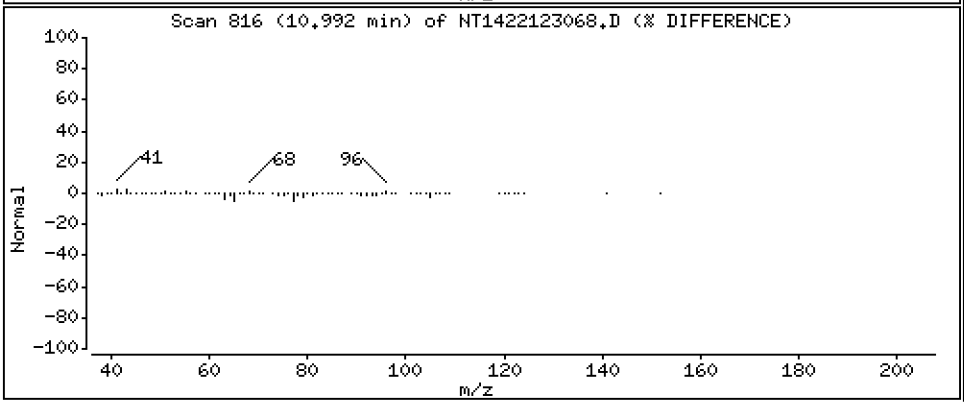
22 2,4-Dimethylphenol

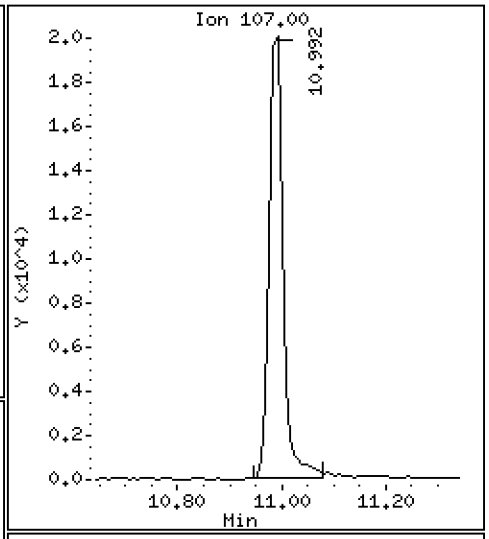
Concentration: 0.9769 ug/mL

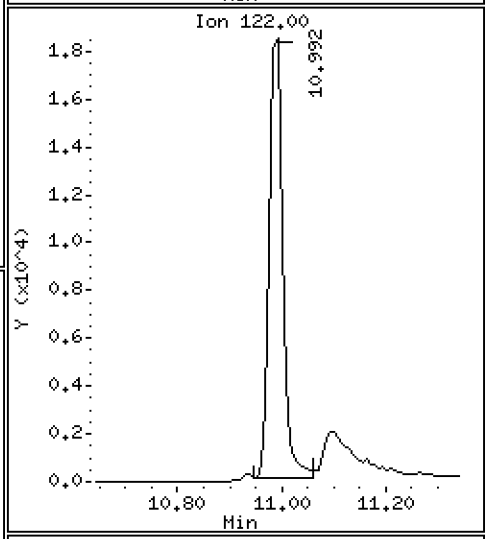


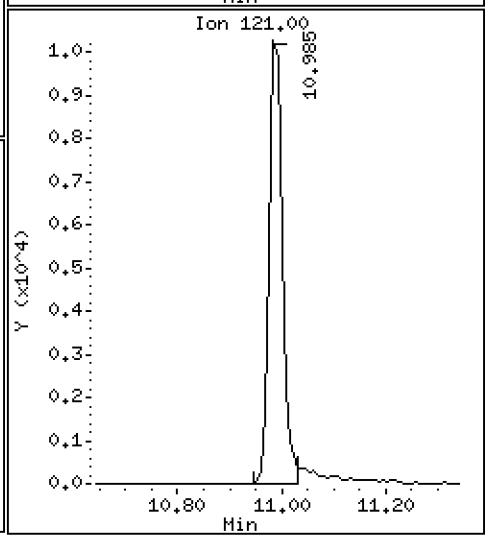












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

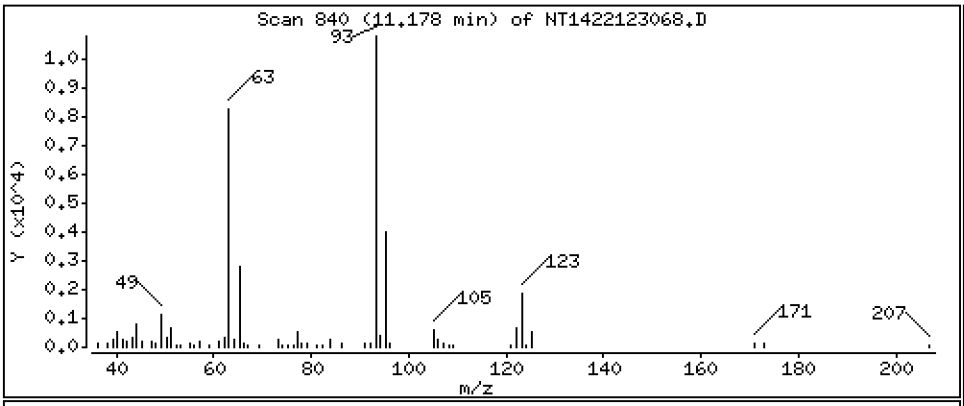
Operator: VTS

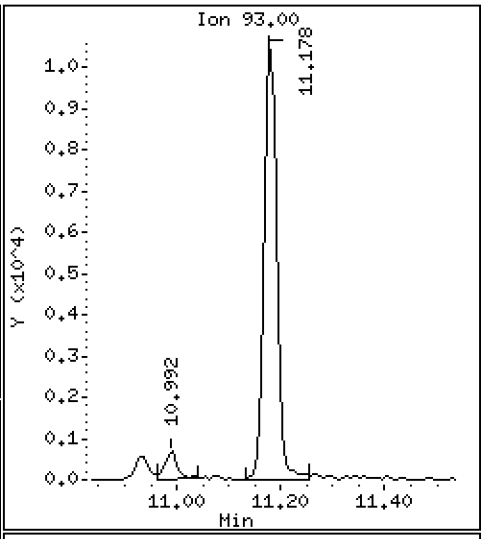
Column phase: ZB-5msi

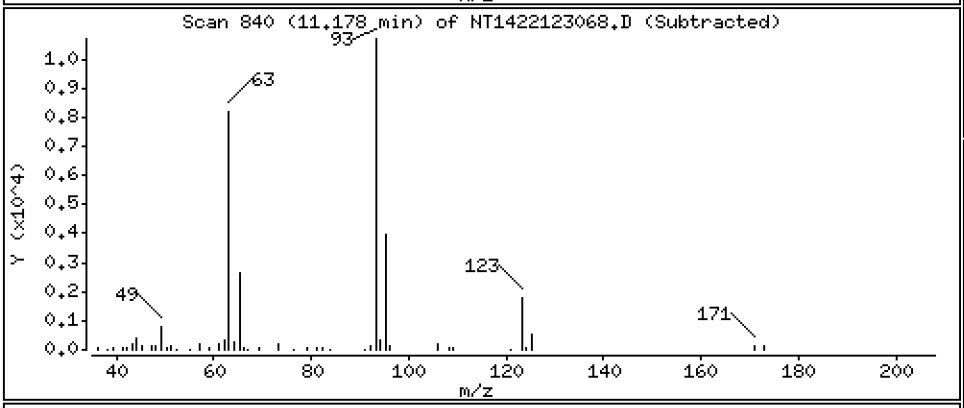
Column diameter: 0.25

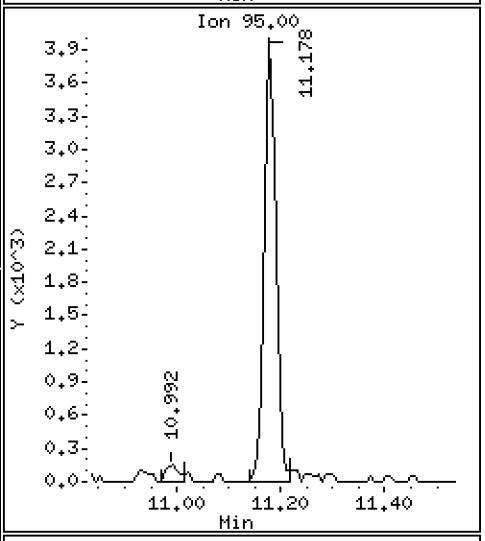
23 Bis(2-Chloroethoxy)methane

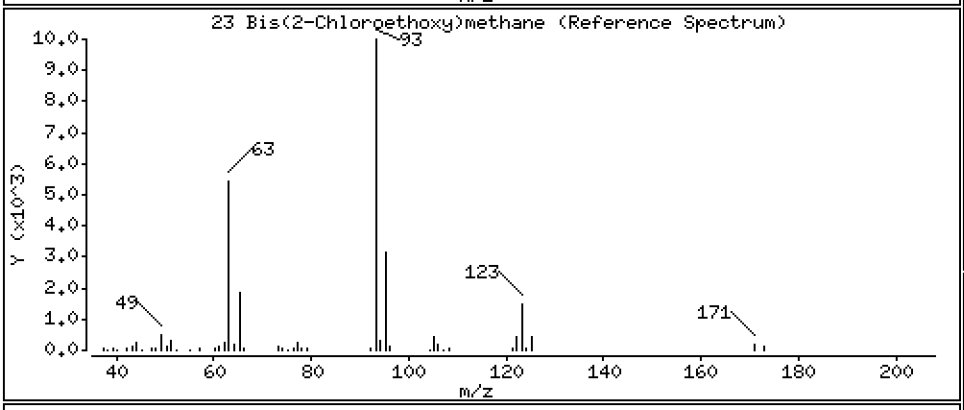
Concentration: 0.4949 ug/mL

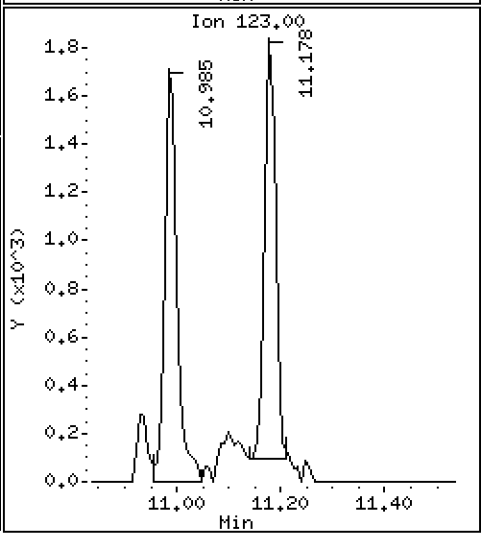


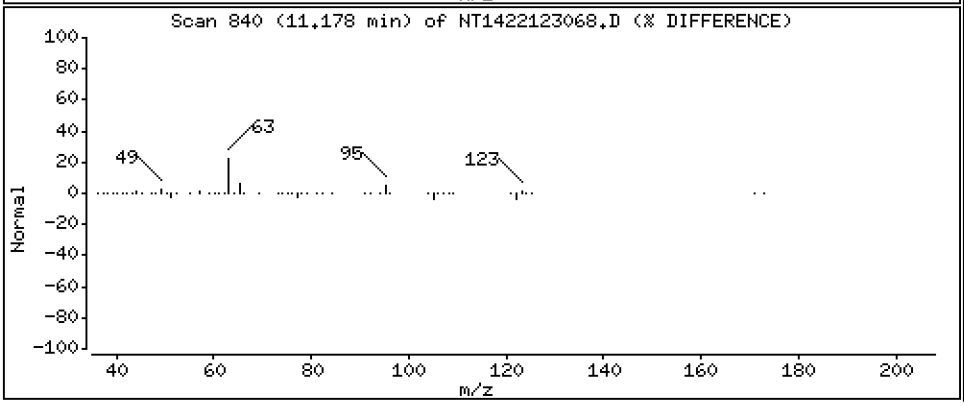












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

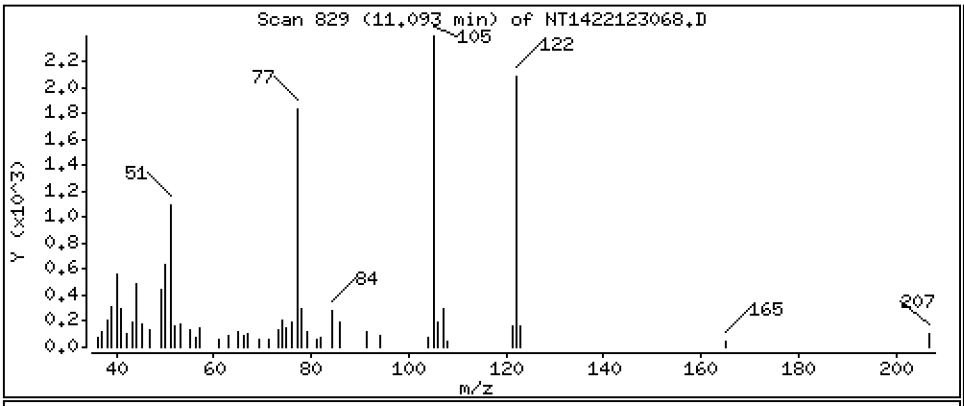
Operator: VTS

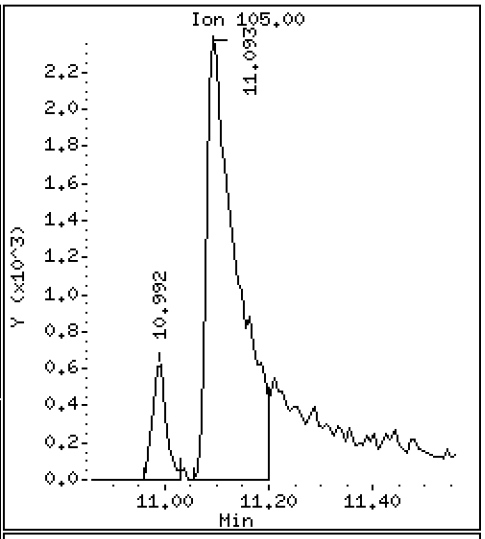
Column phase: ZB-5msi

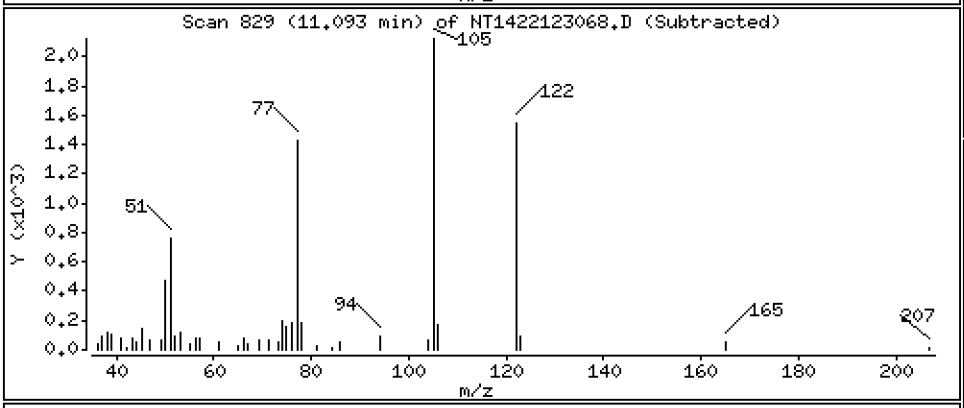
Column diameter: 0.25

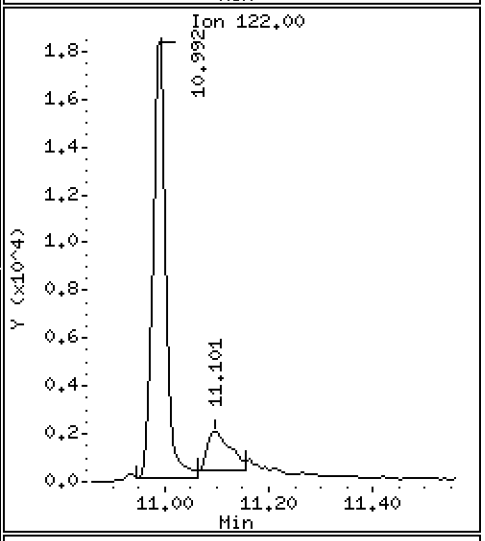
24 Benzoic acid

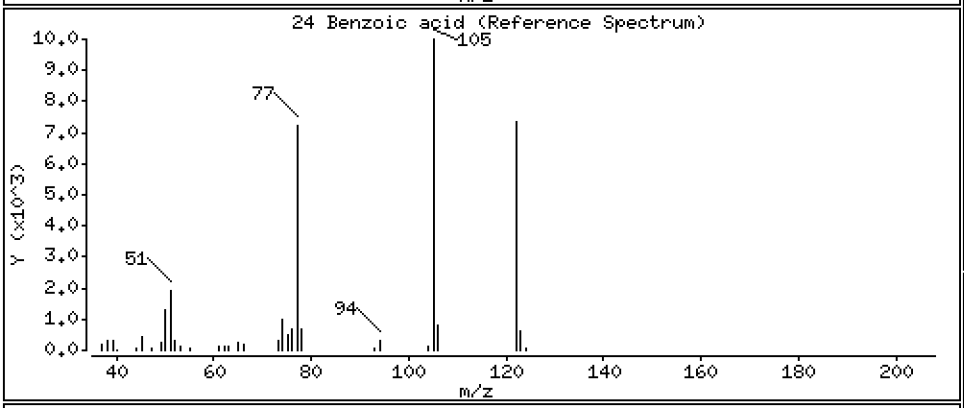
Concentration: 0.4477 ug/mL

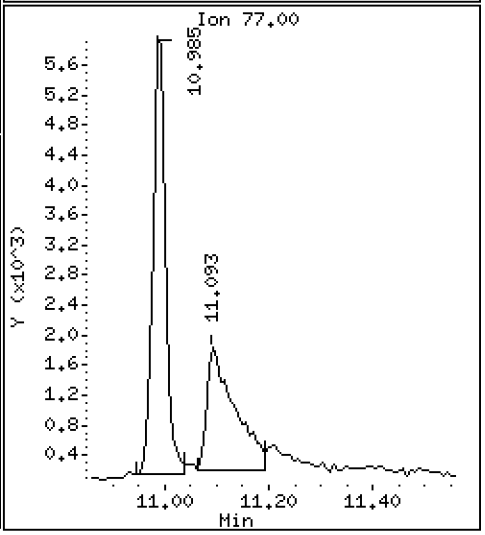


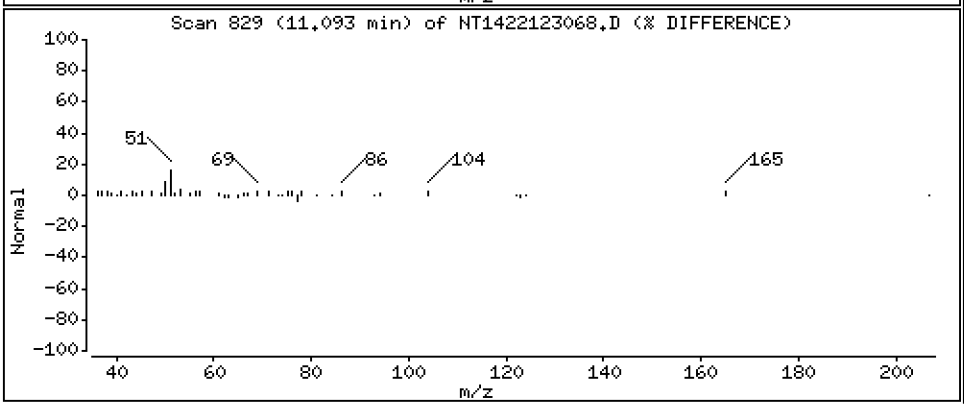












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

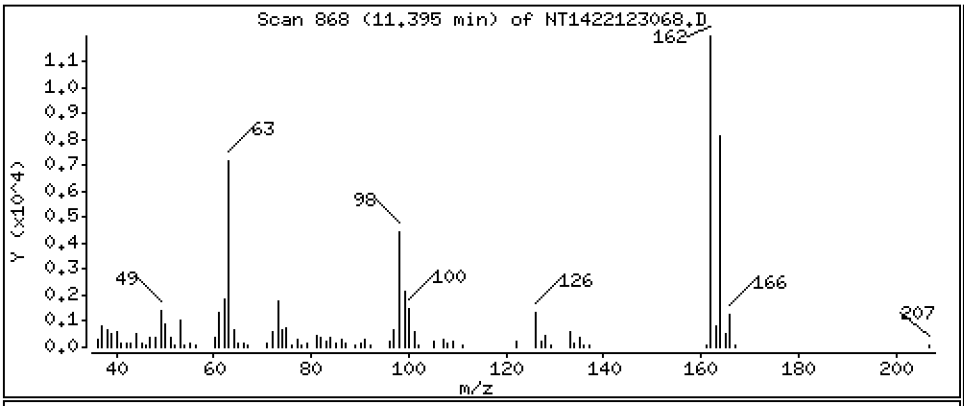
Operator: VTS

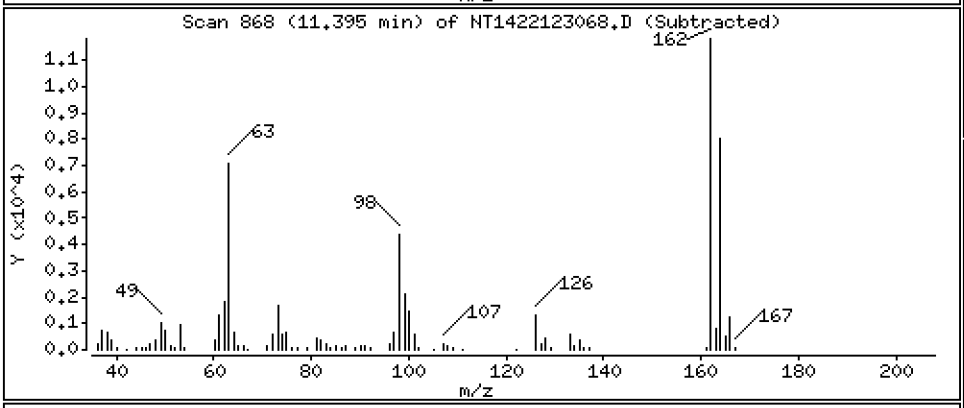
Column phase: ZB-5msi

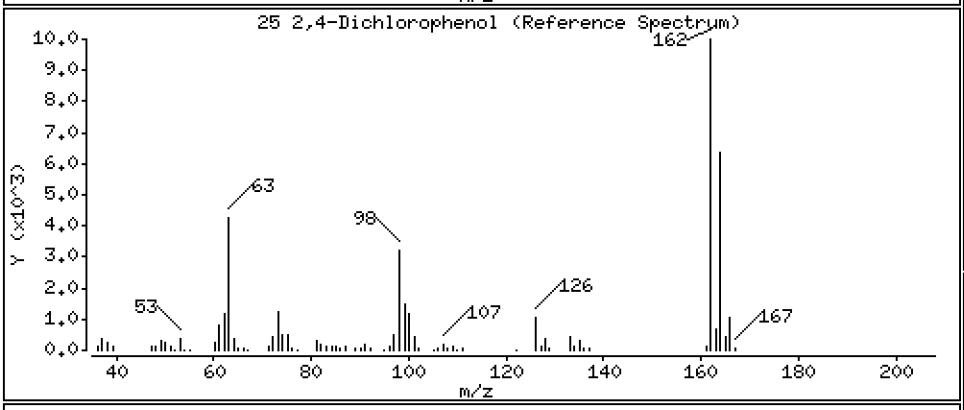
Column diameter: 0.25

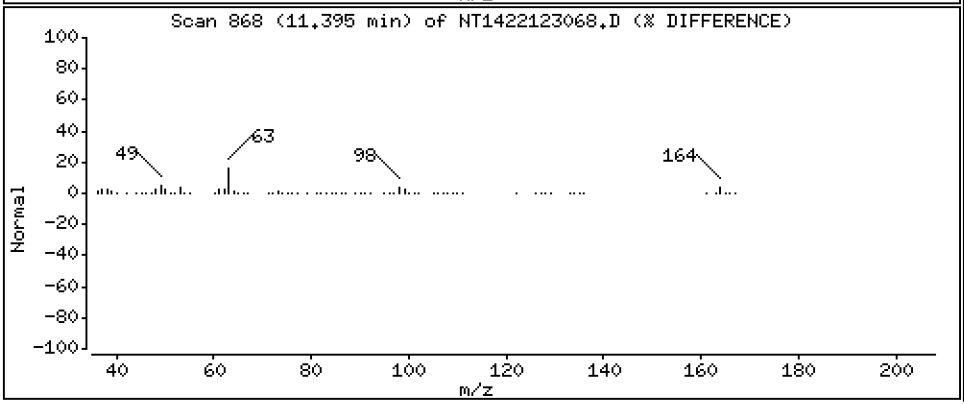
25 2,4-Dichlorophenol

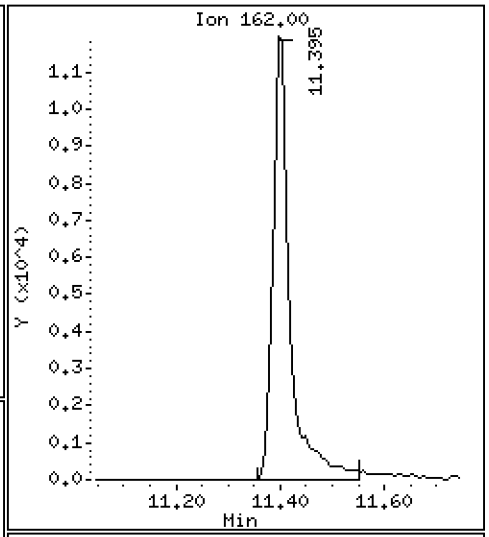
Concentration: 0.9599 ug/mL

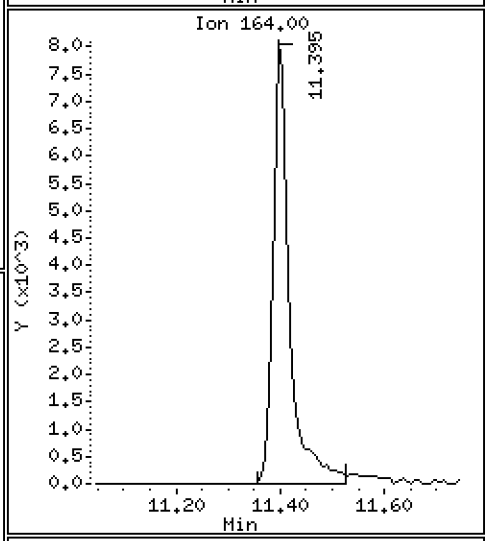


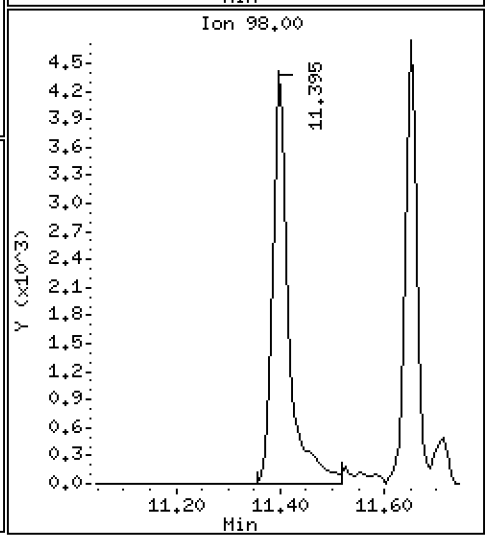












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

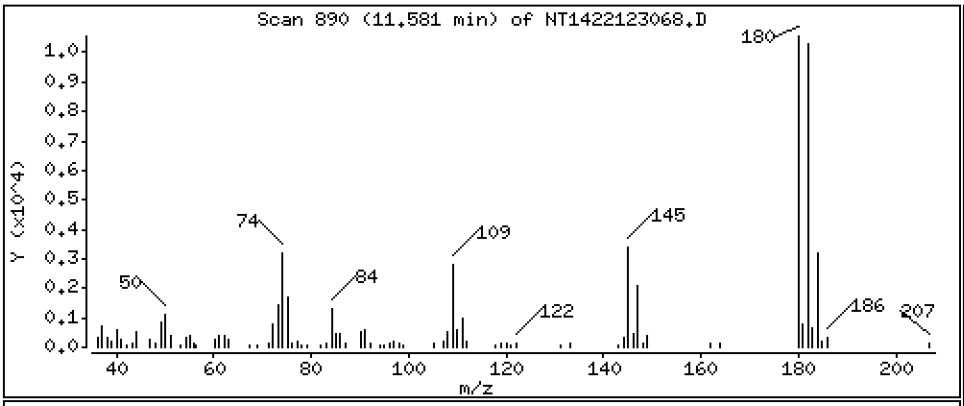
Operator: VTS

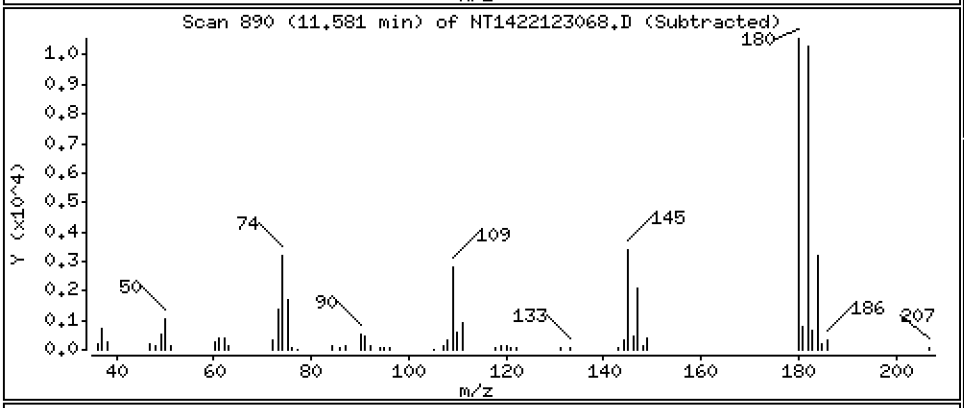
Column phase: ZB-5msi

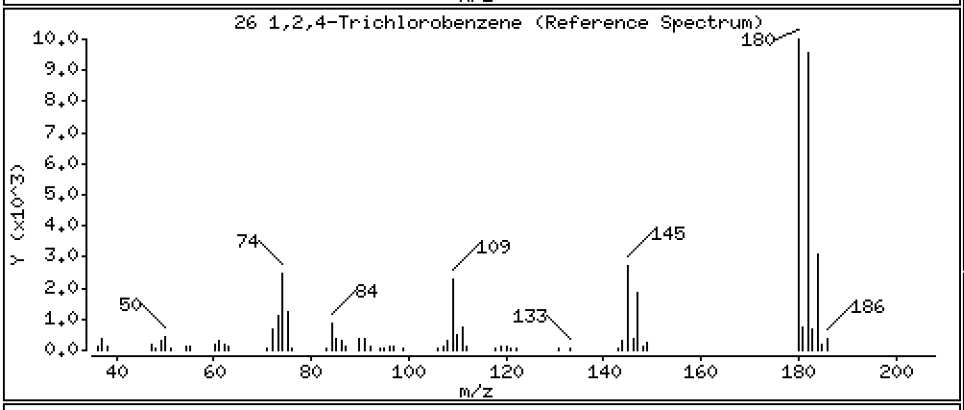
Column diameter: 0.25

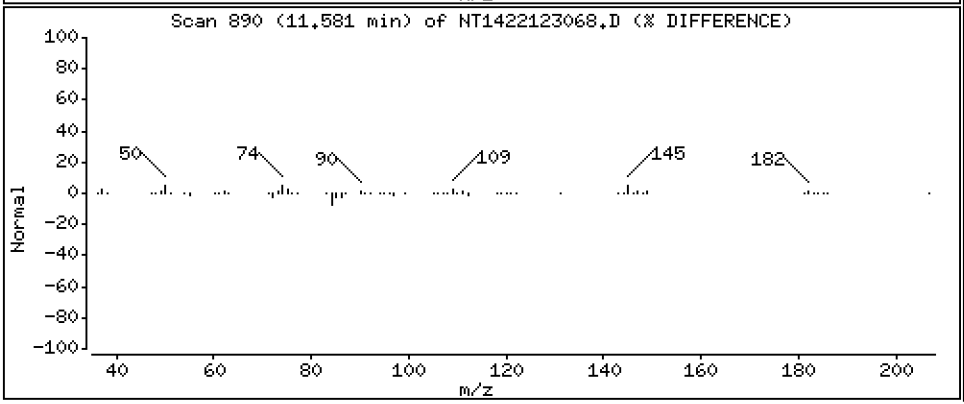
26 1,2,4-Trichlorobenzene

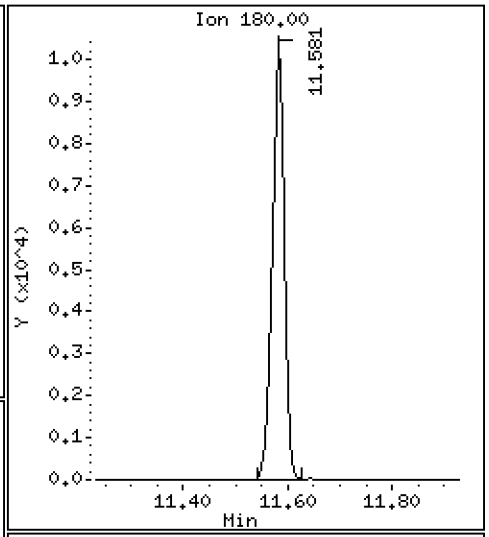
Concentration: 0.4890 ug/mL

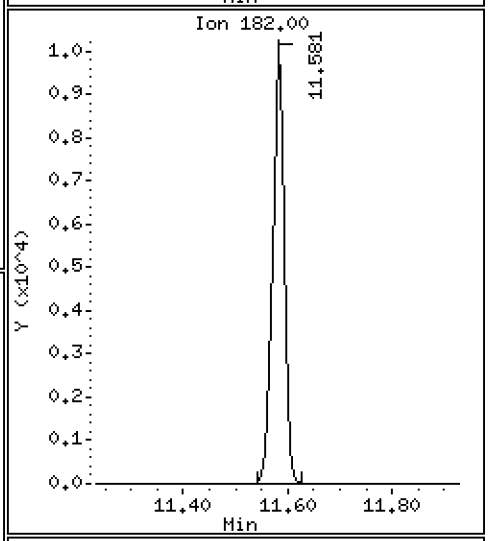


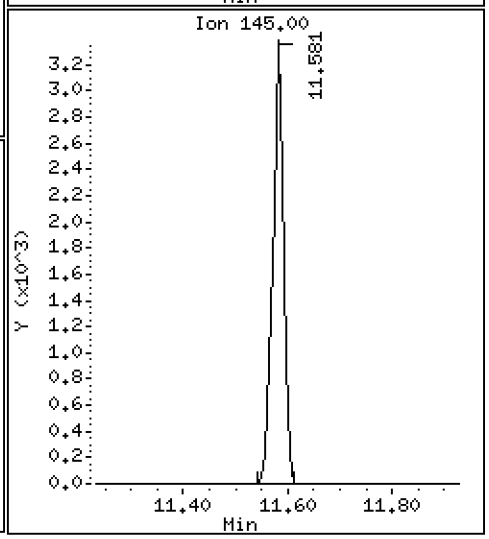












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

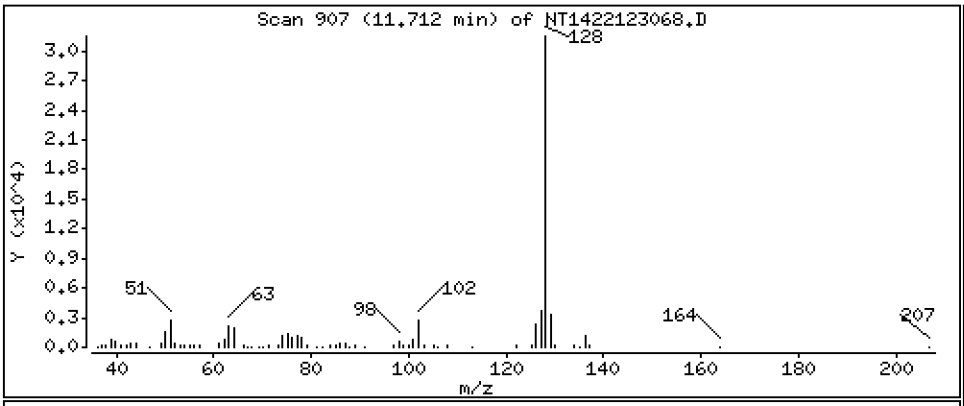
Operator: VTS

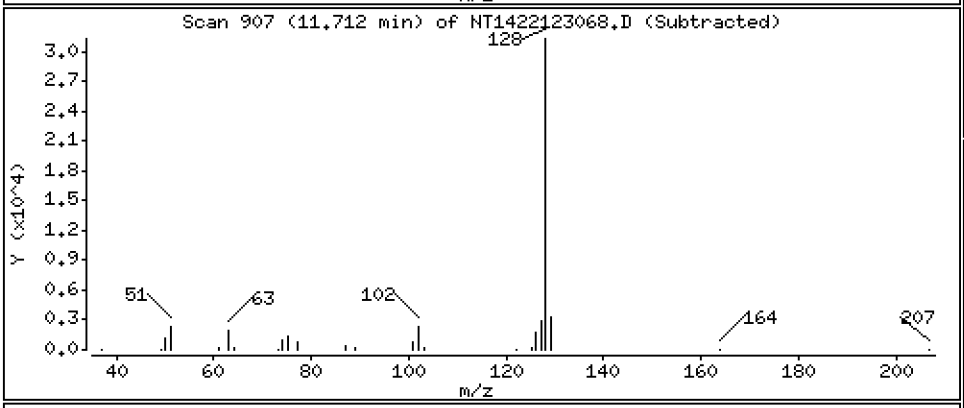
Column phase: ZB-5msi

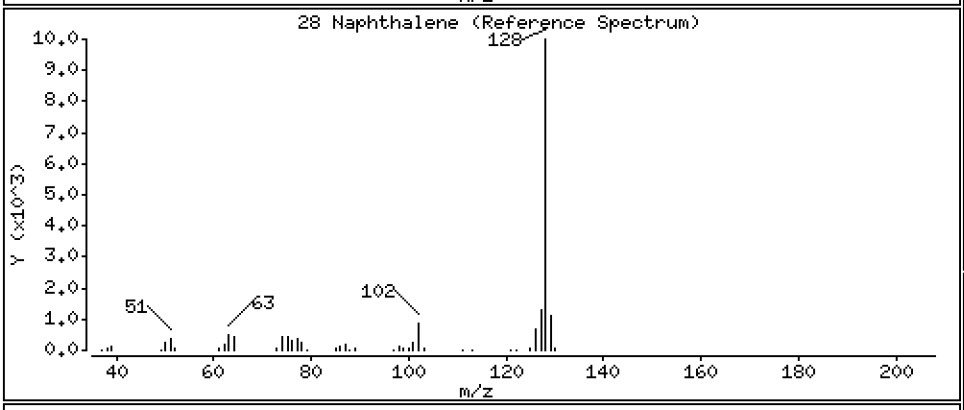
Column diameter: 0.25

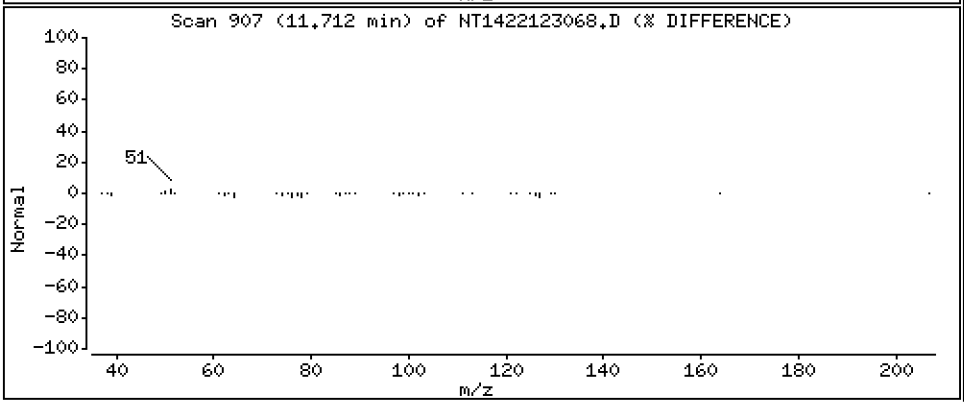
28 Naphthalene

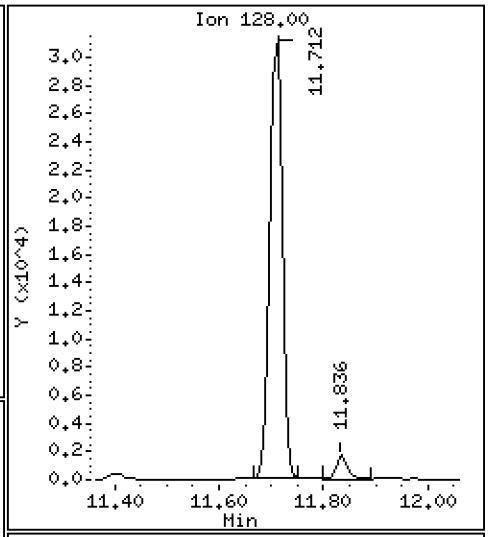
Concentration: 0.4854 ug/mL

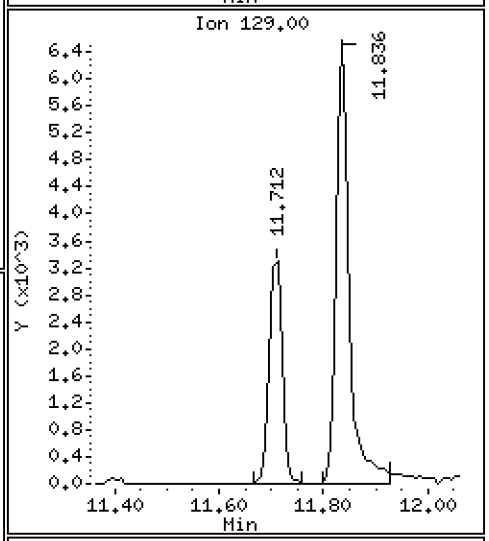


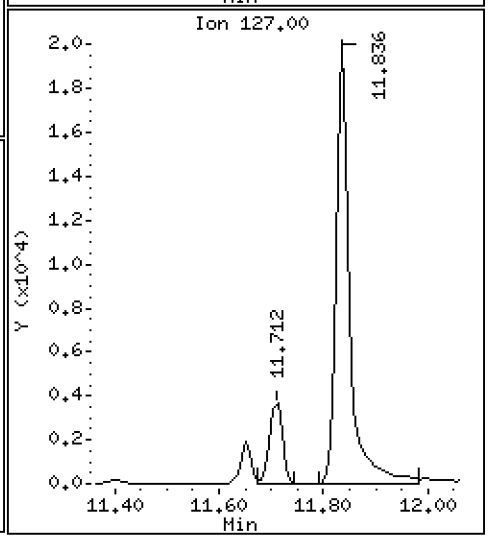












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

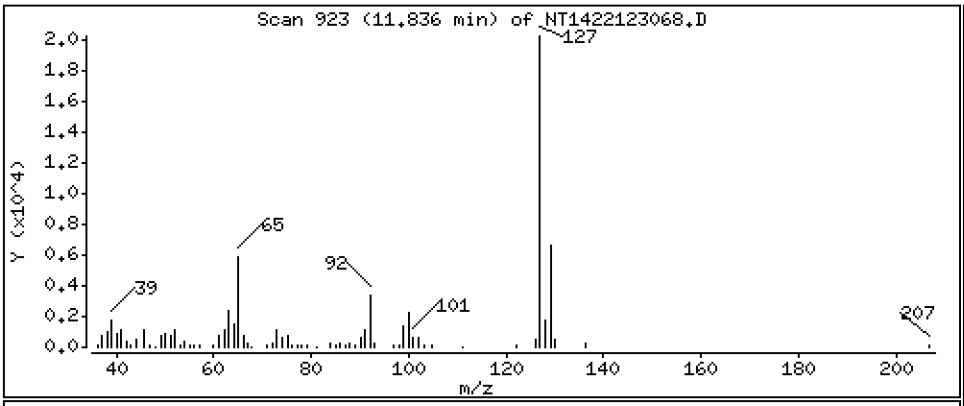
Operator: VTS

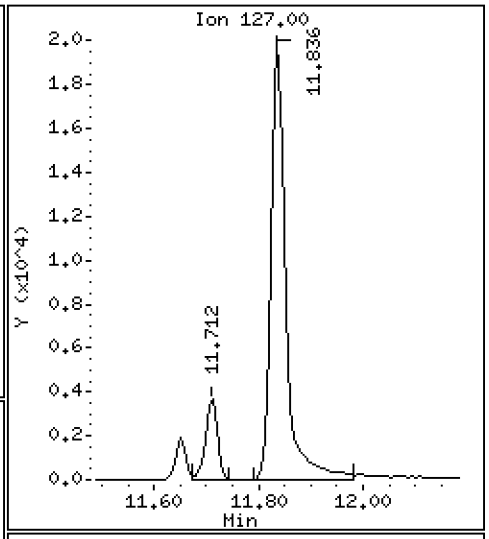
Column phase: ZB-5msi

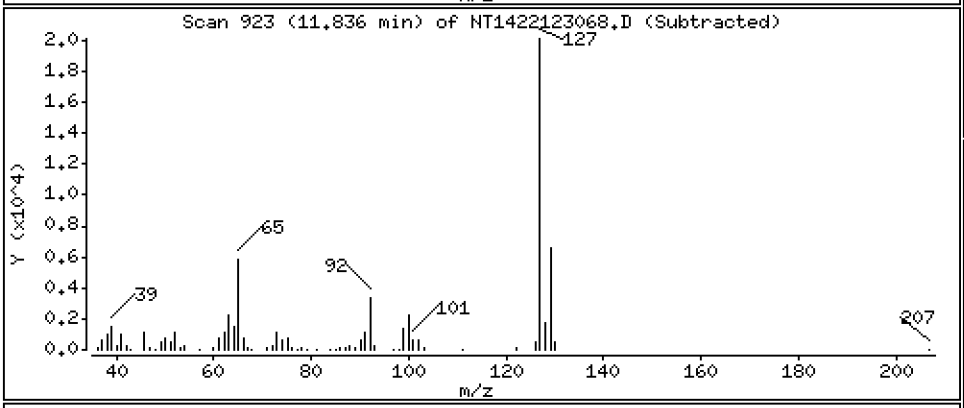
Column diameter: 0.25

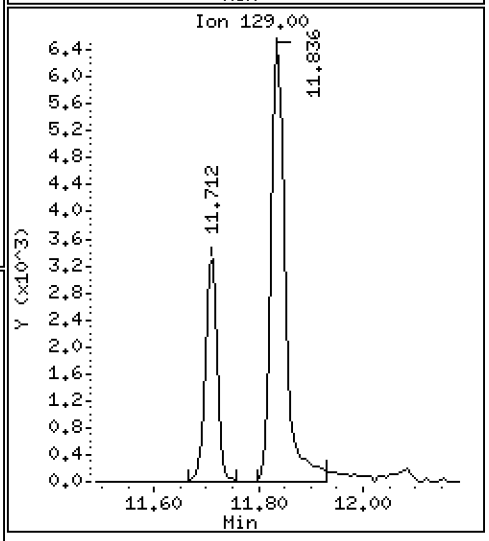
29 4-Chloroaniline

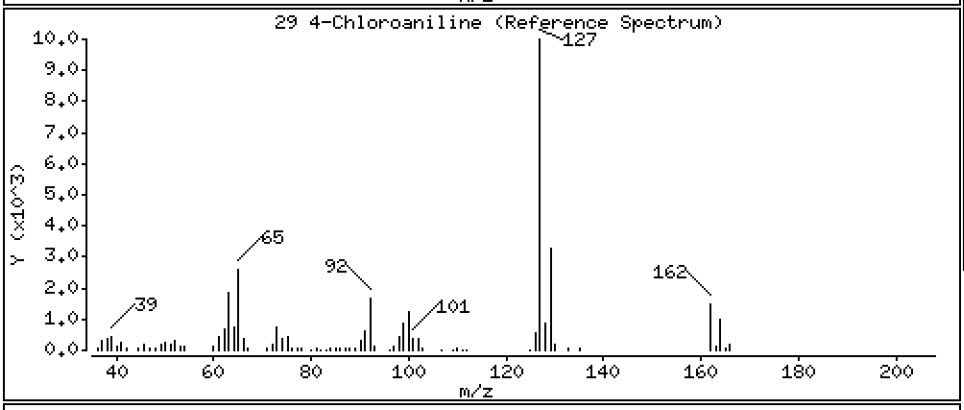
Concentration: 0.8885 ug/mL

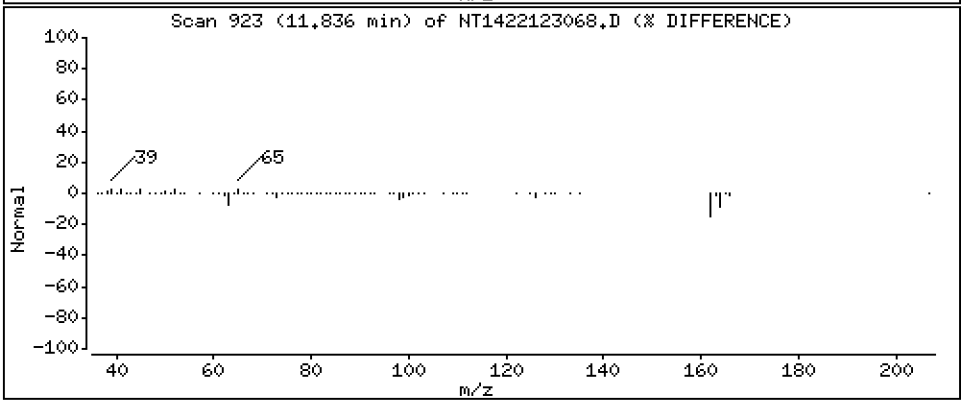












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

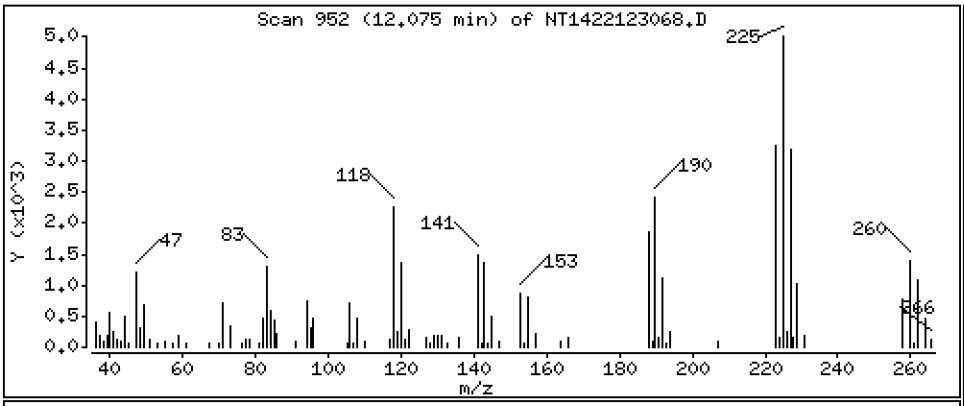
Operator: VTS

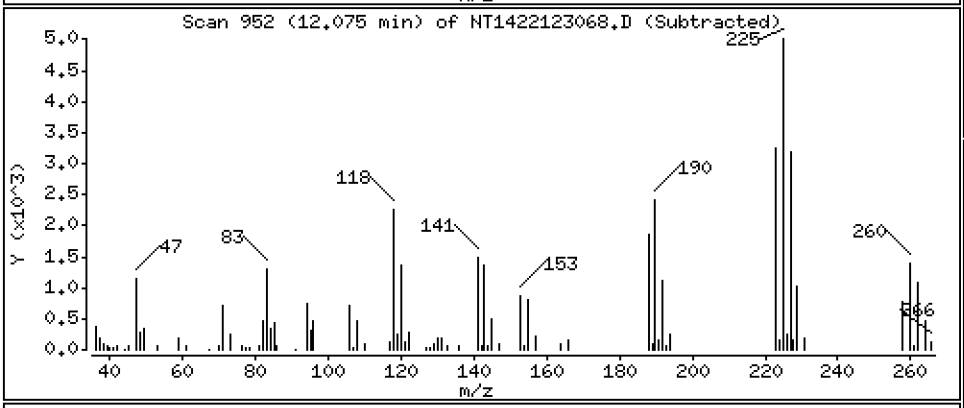
Column phase: ZB-5msi

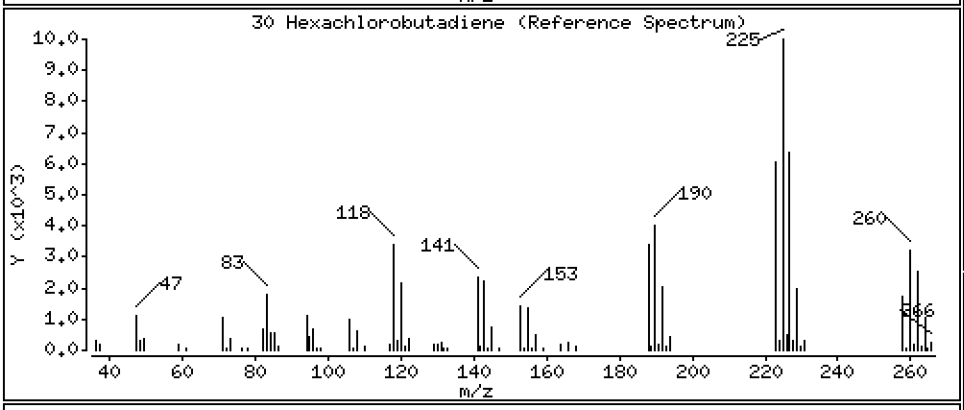
Column diameter: 0.25

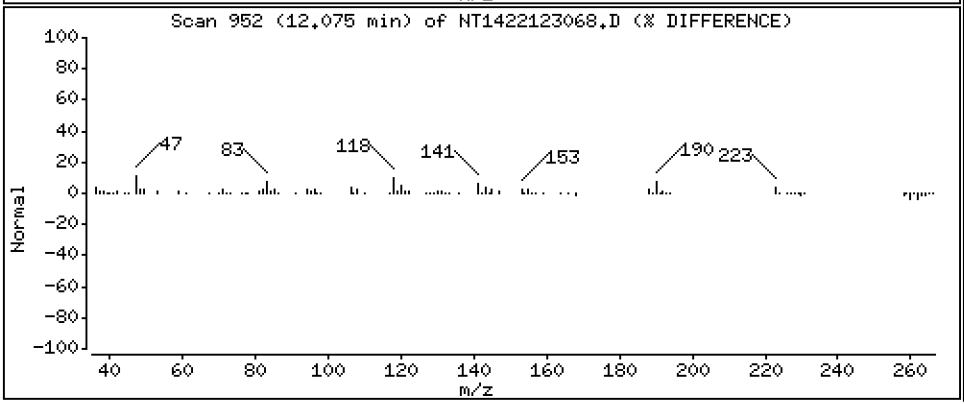
30 Hexachlorobutadiene

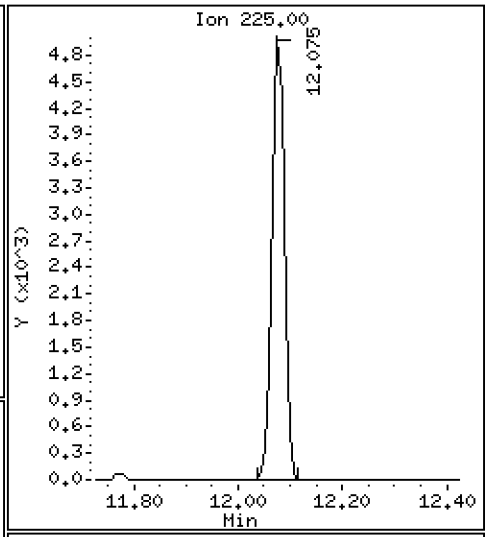
Concentration: 0.4777 ug/mL

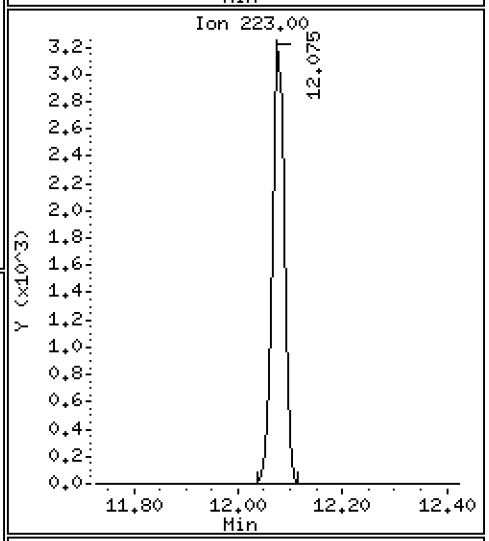


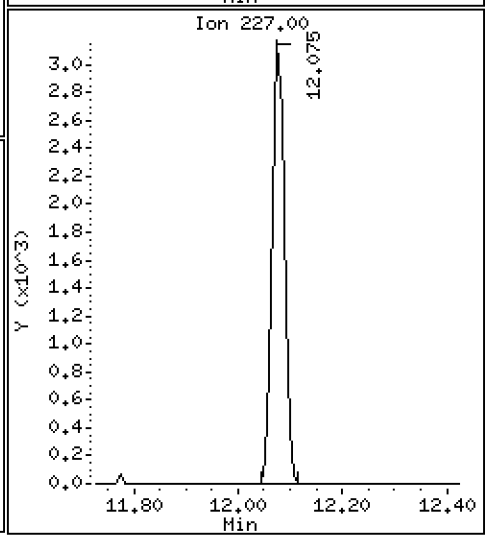












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

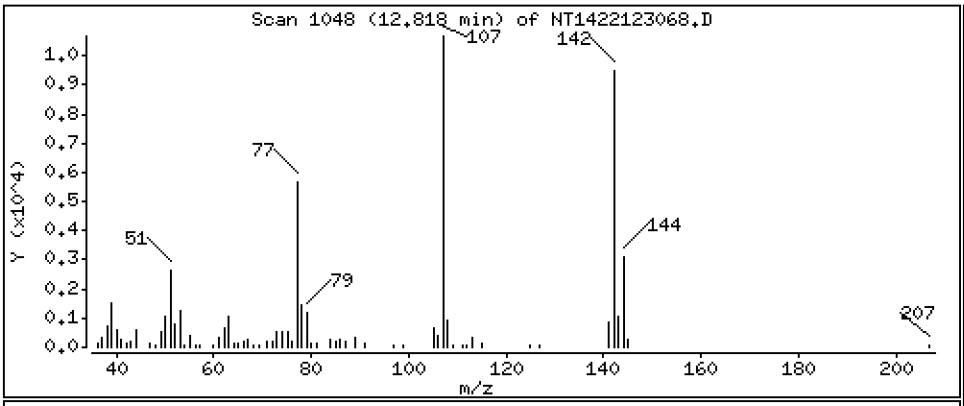
Operator: VTS

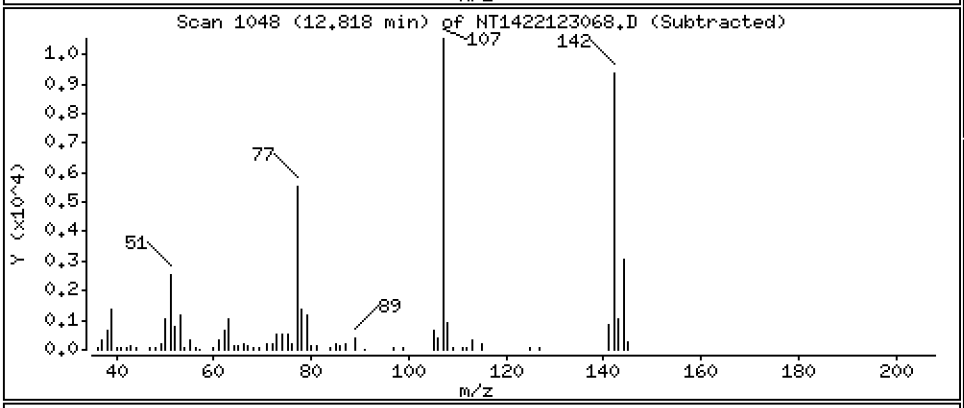
Column phase: ZB-5msi

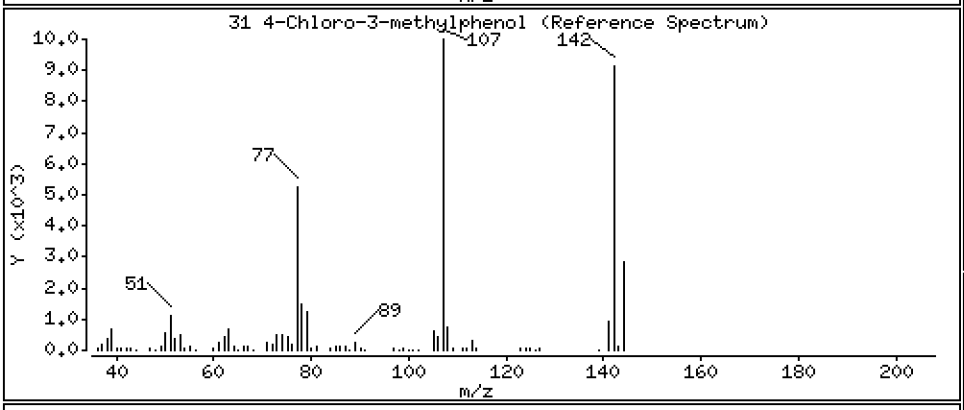
Column diameter: 0.25

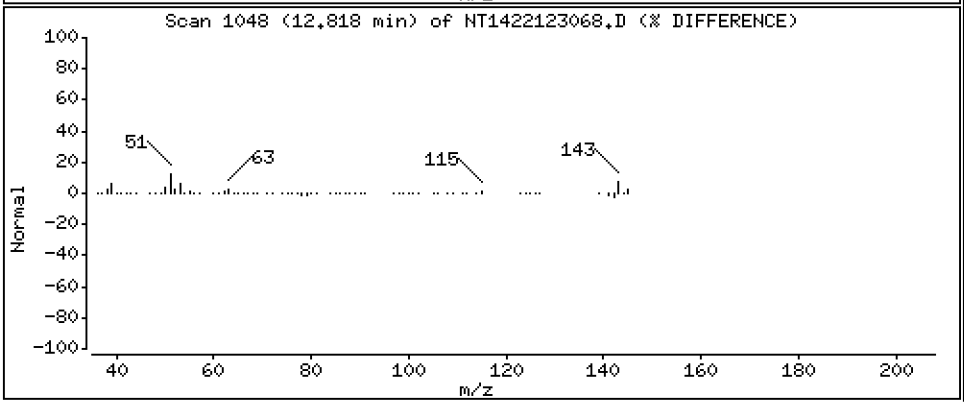
31 4-Chloro-3-methylphenol

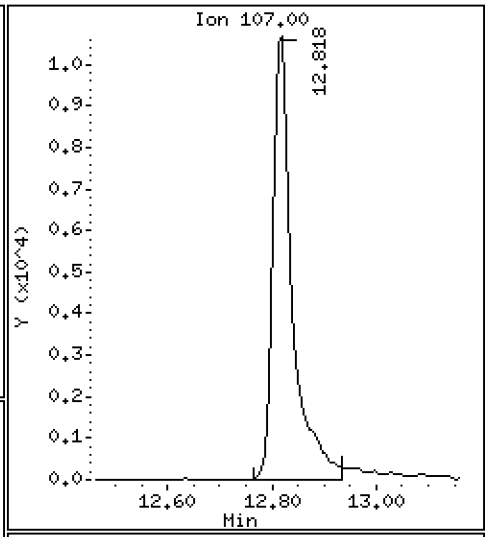
Concentration: 0.9495 ug/mL

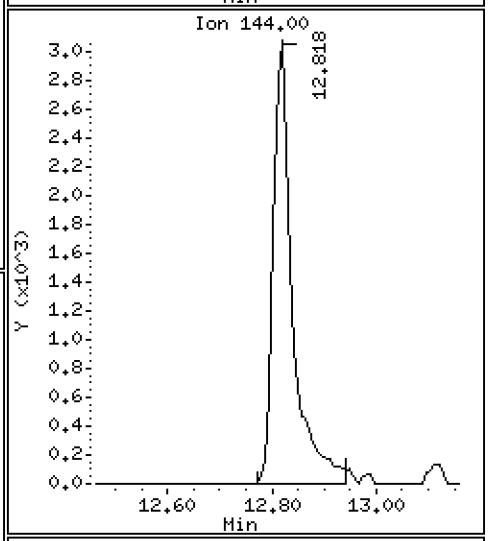


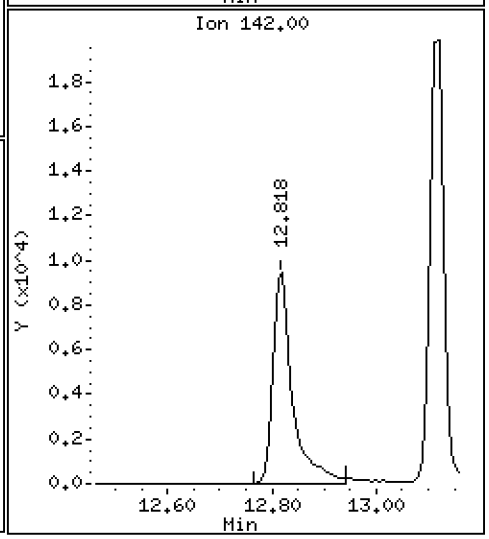












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

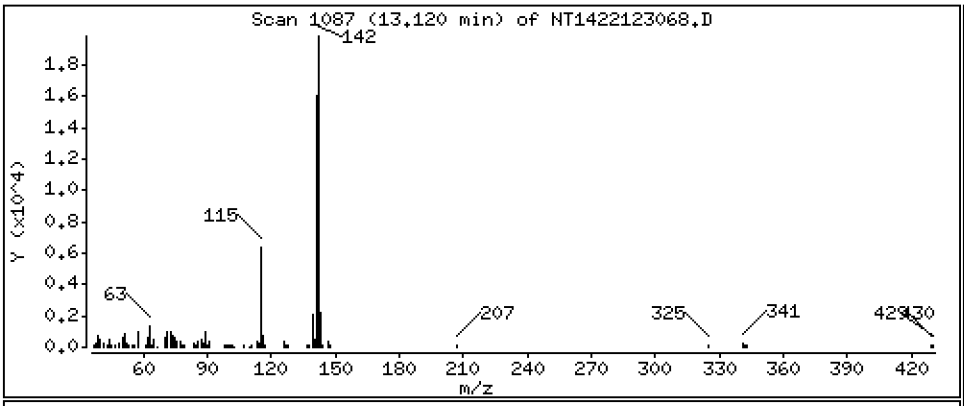
Operator: VTS

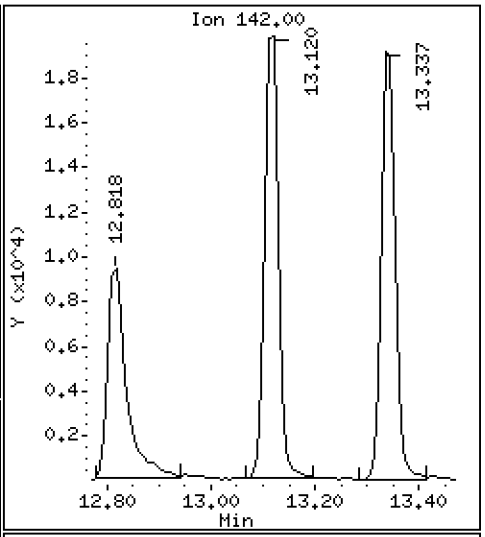
Column phase: ZB-5msi

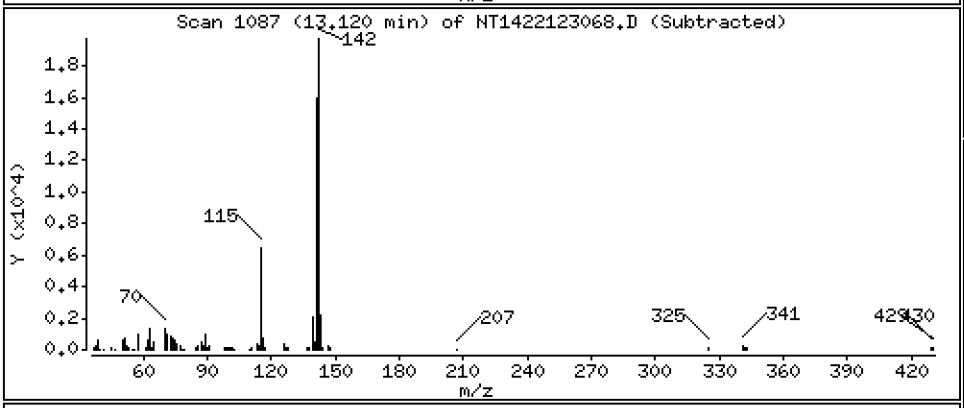
Column diameter: 0.25

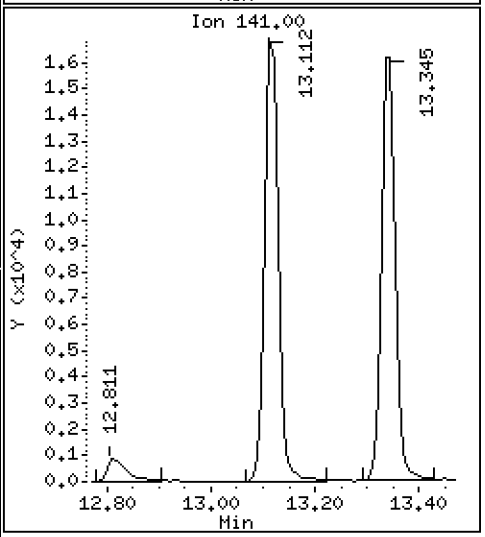
32 2-Methylnaphthalene

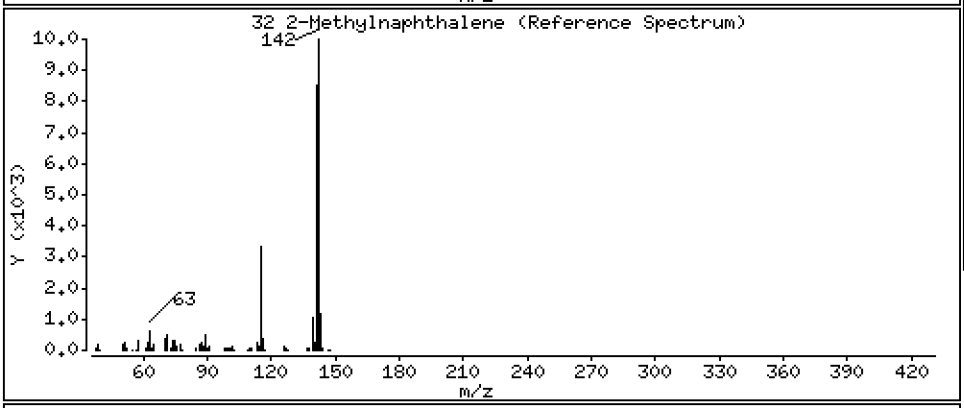
Concentration: 0.4656 ug/mL

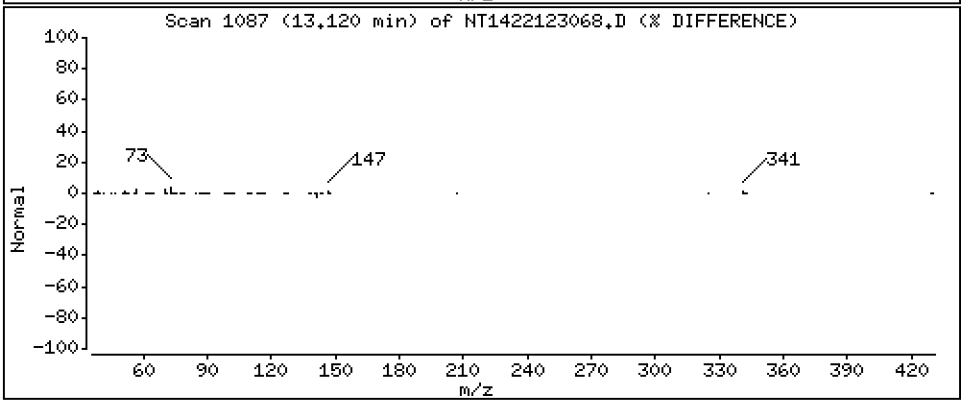












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

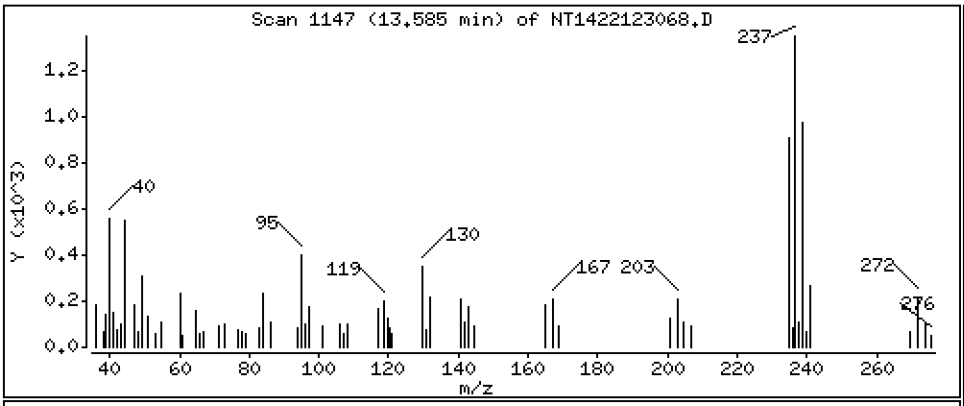
Operator: VTS

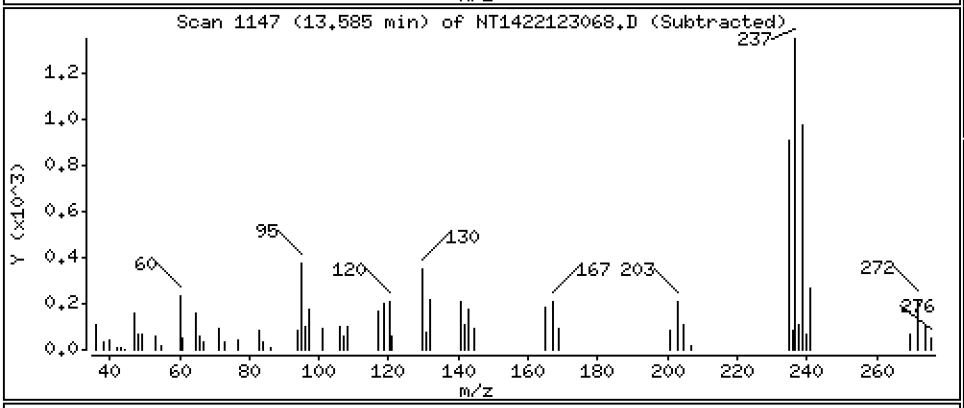
Column phase: ZB-5msi

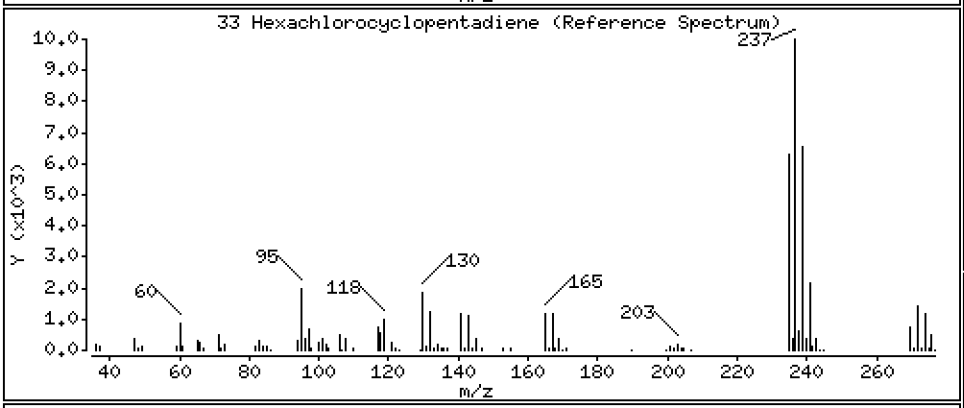
Column diameter: 0.25

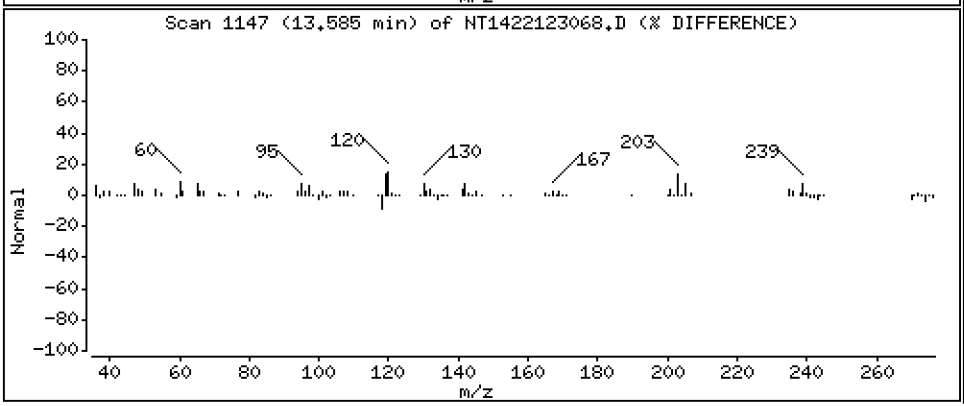
33 Hexachlorocyclopentadiene

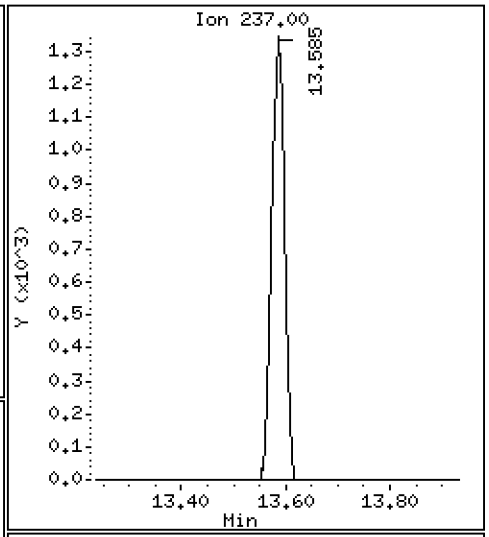
Concentration: 0.1373 ug/mL

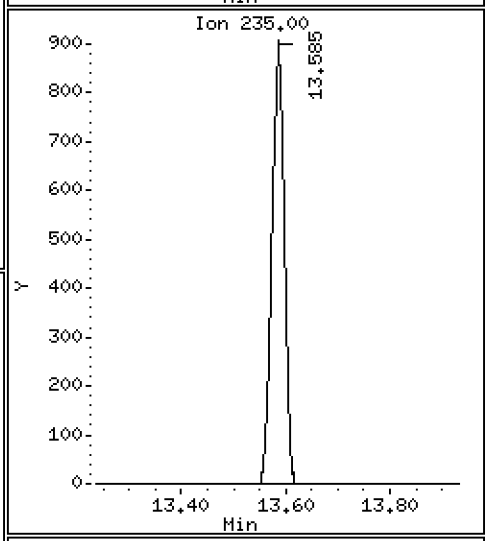


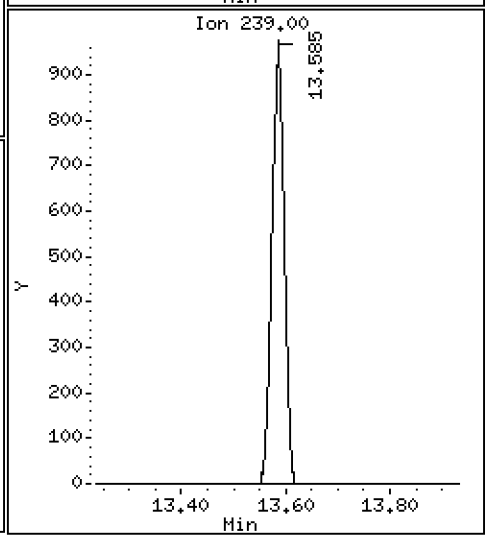












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

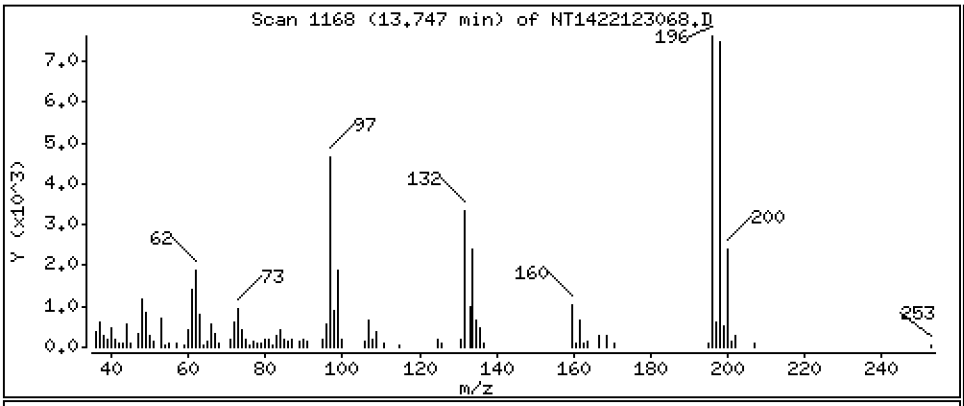
Operator: VTS

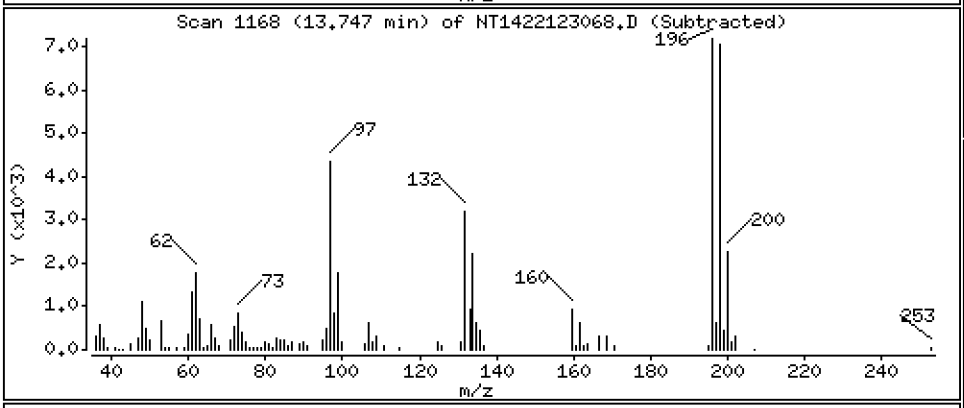
Column phase: ZB-5msi

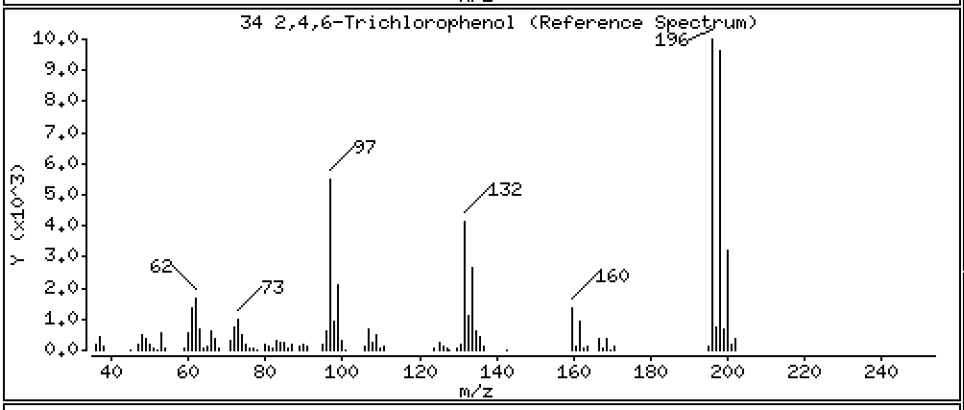
Column diameter: 0.25

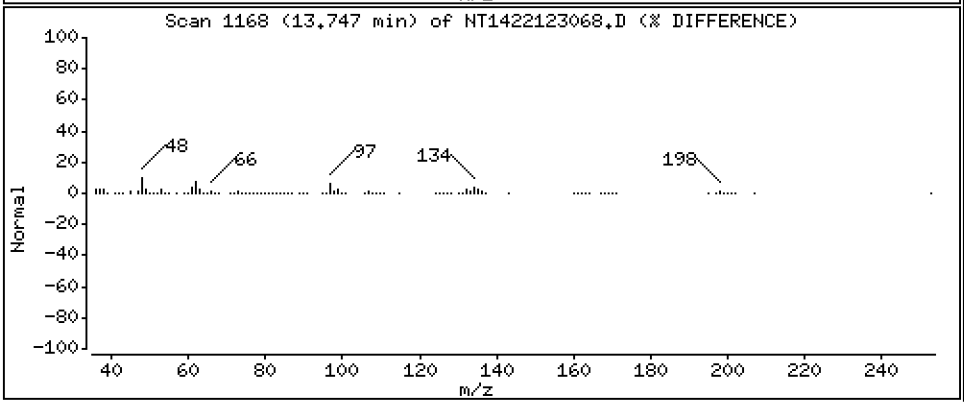
34 2,4,6-Trichlorophenol

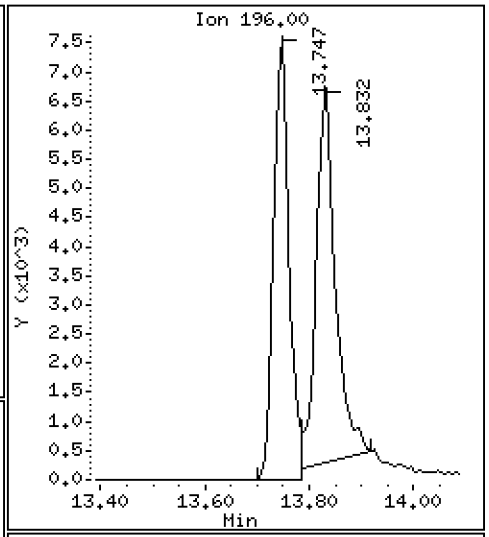
Concentration: 0.8738 ug/mL

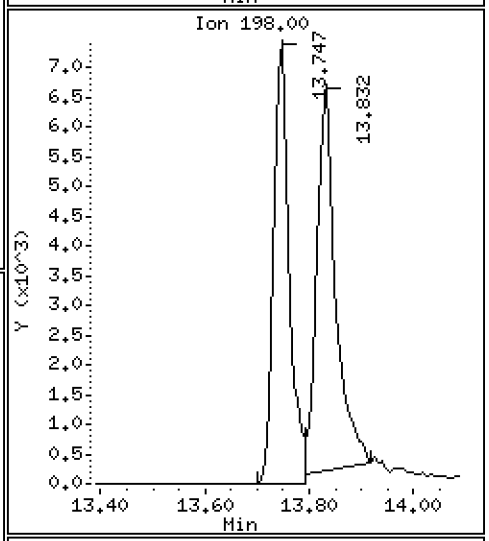


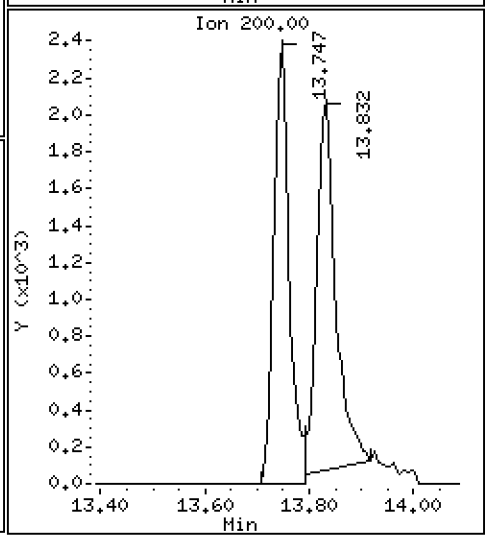












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123068.D

Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

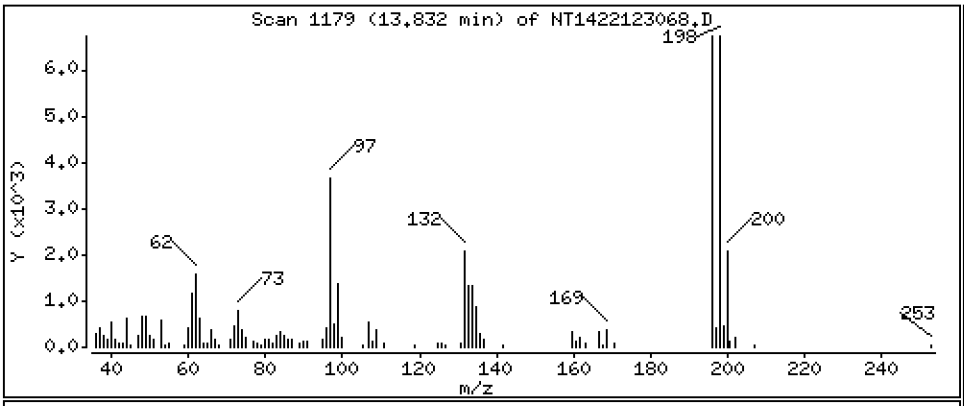
Operator: VTS

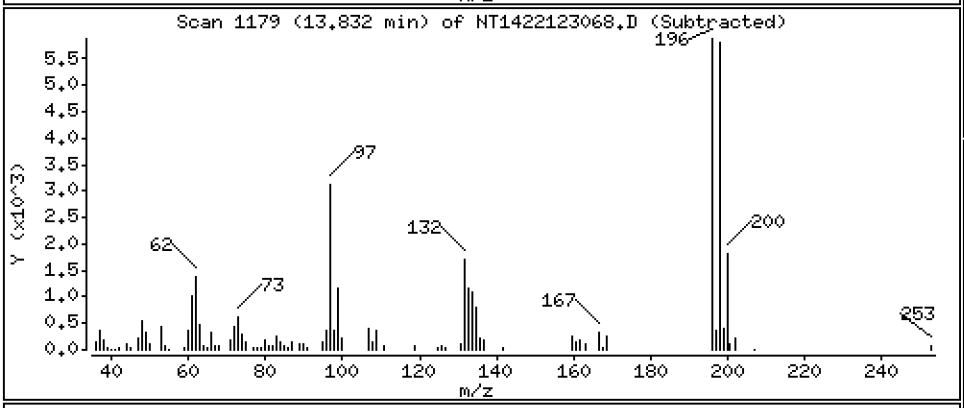
Column phase: ZB-5msi

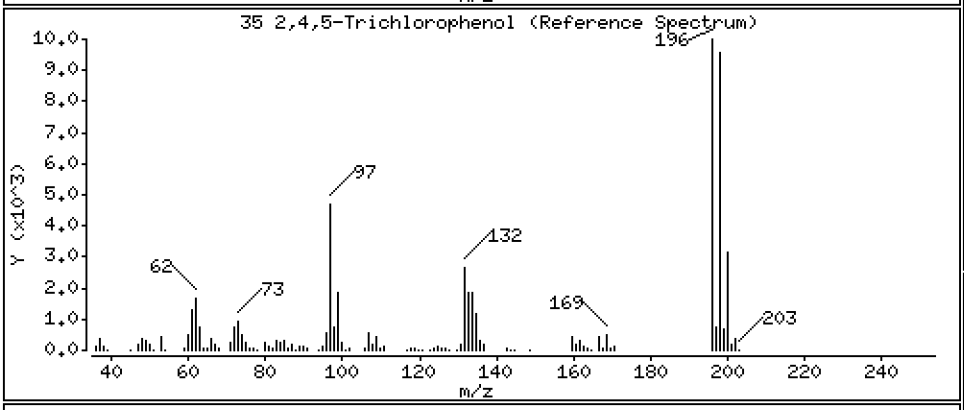
Column diameter: 0.25

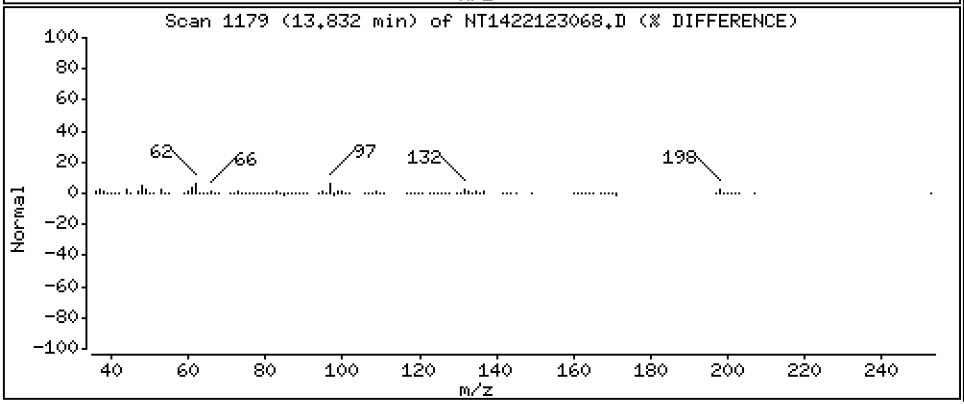
35 2,4,5-Trichlorophenol

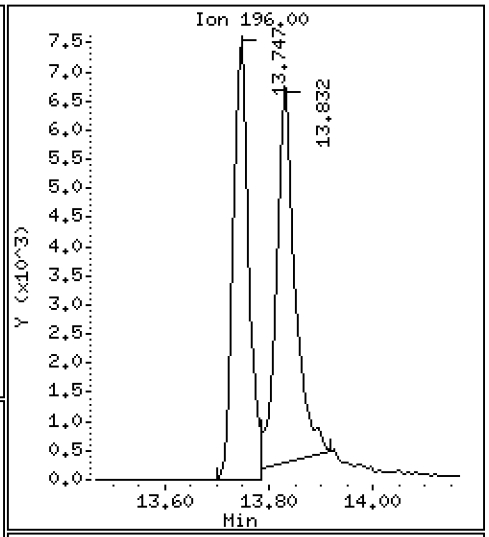
Concentration: 0.8019 ug/mL

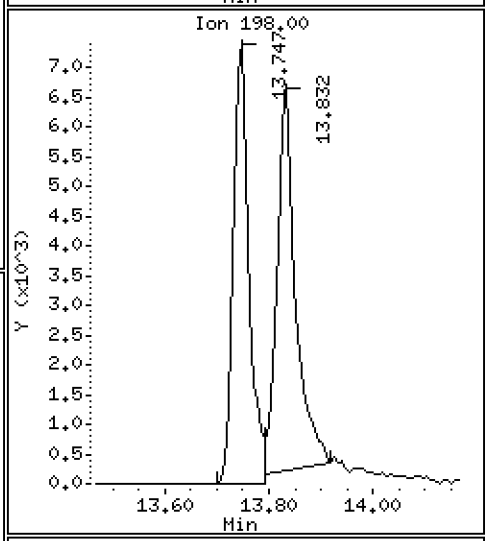


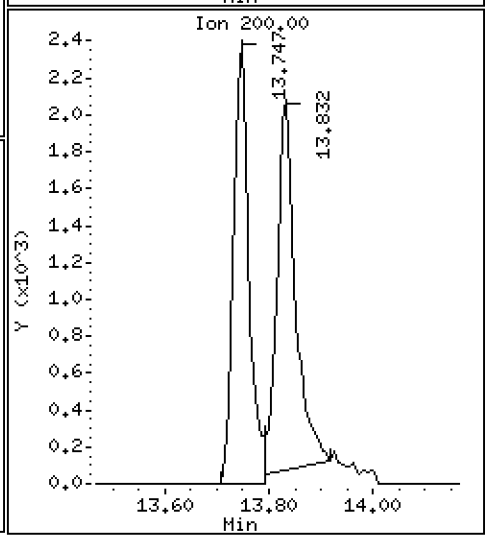












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123068.D

Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

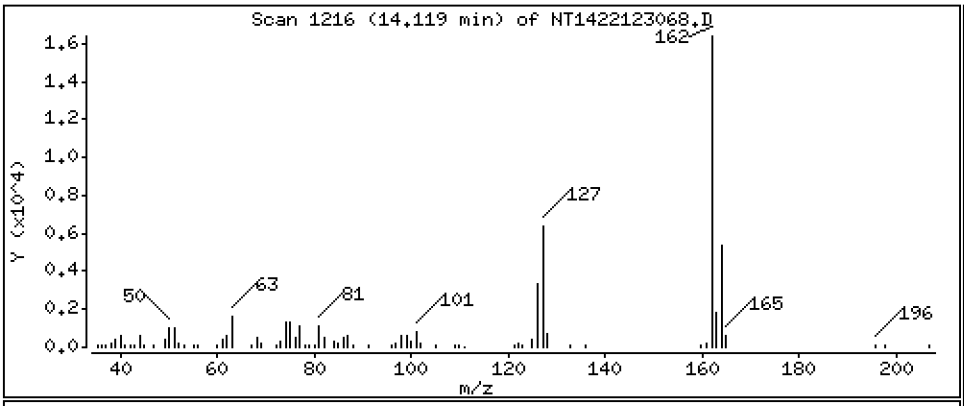
Operator: VTS

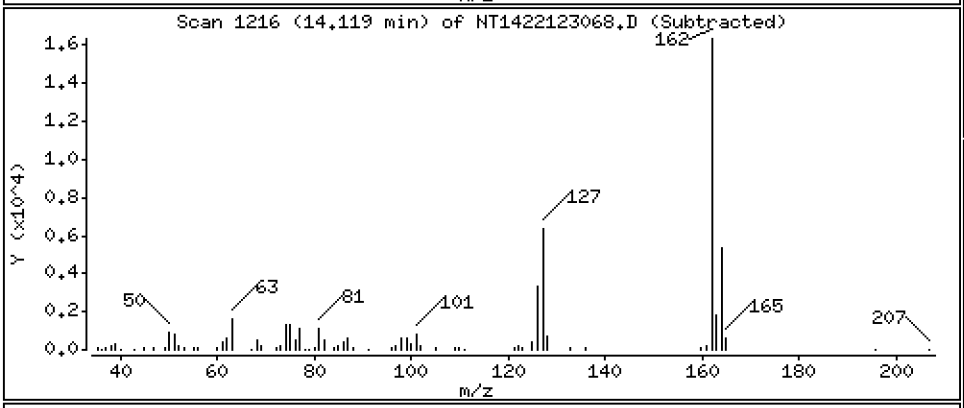
Column phase: ZB-5msi

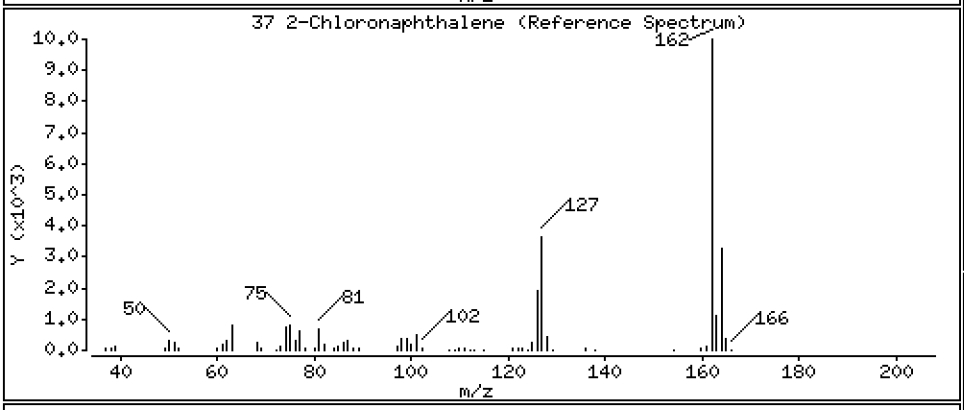
Column diameter: 0.25

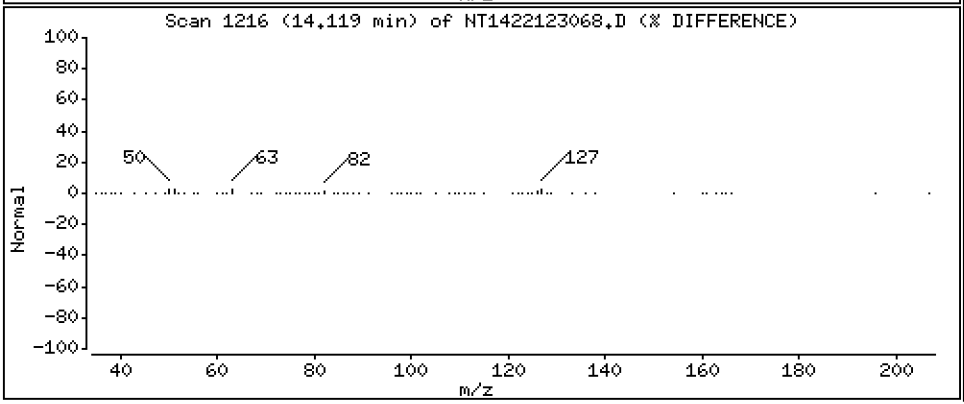
37 2-Chloronaphthalene

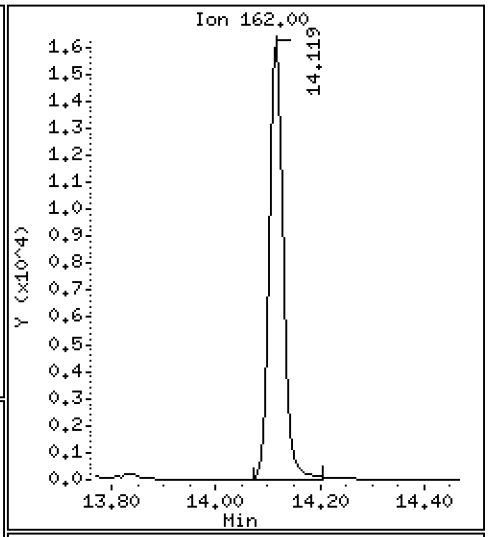
Concentration: 0.4809 ug/mL

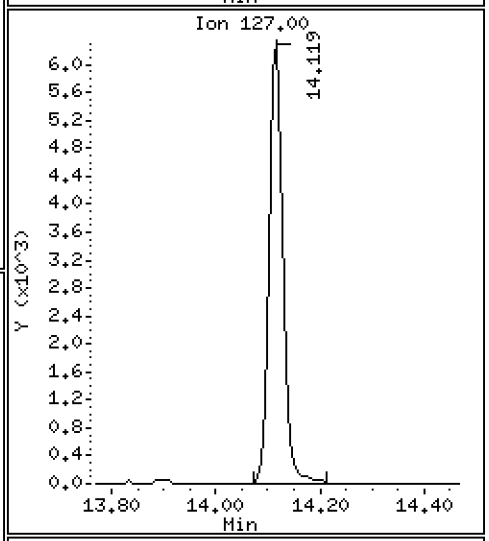


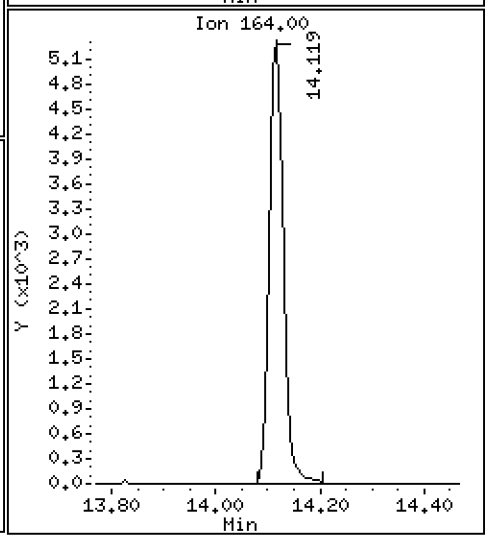












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

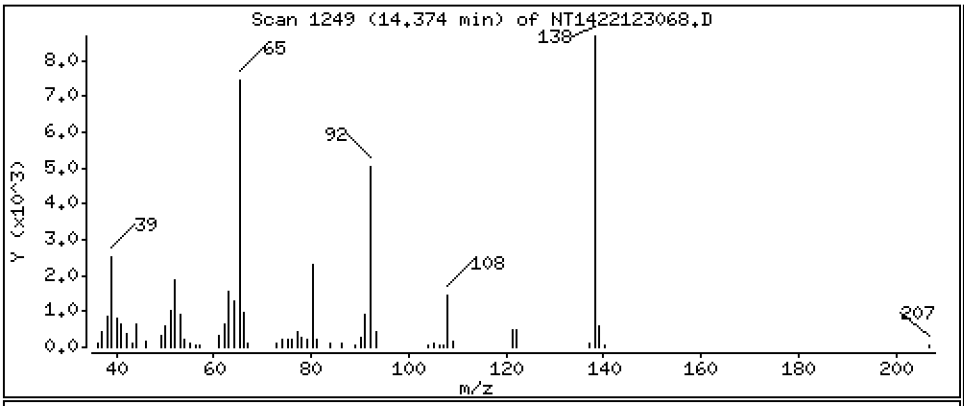
Operator: VTS

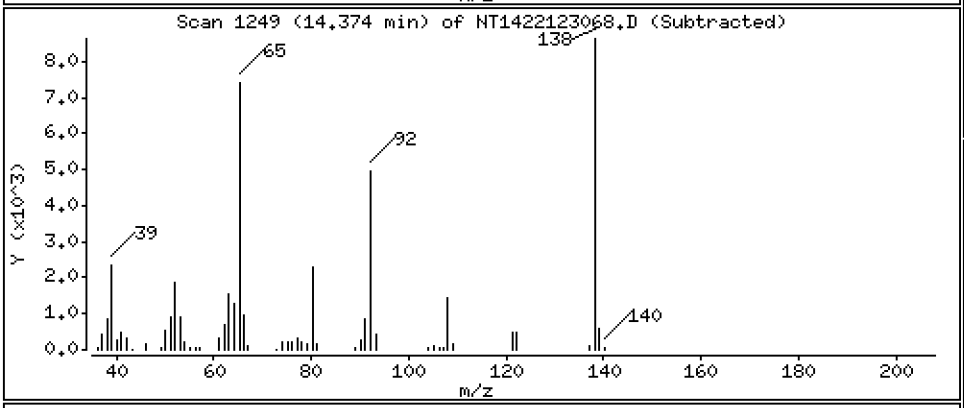
Column phase: ZB-5msi

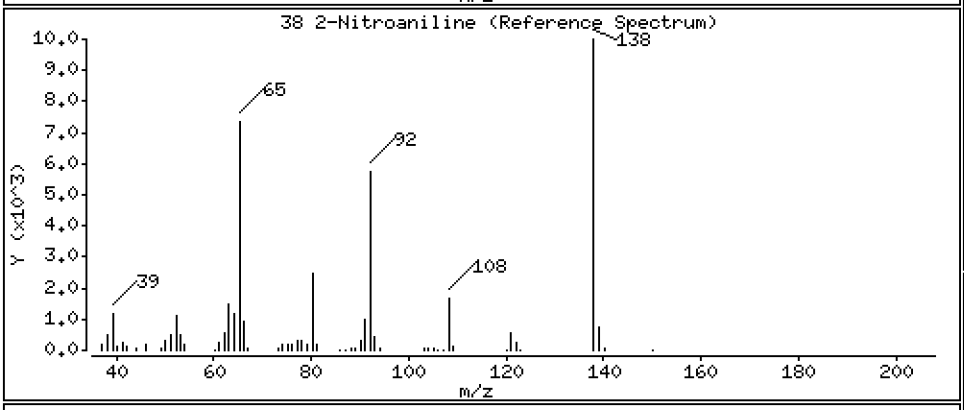
Column diameter: 0.25

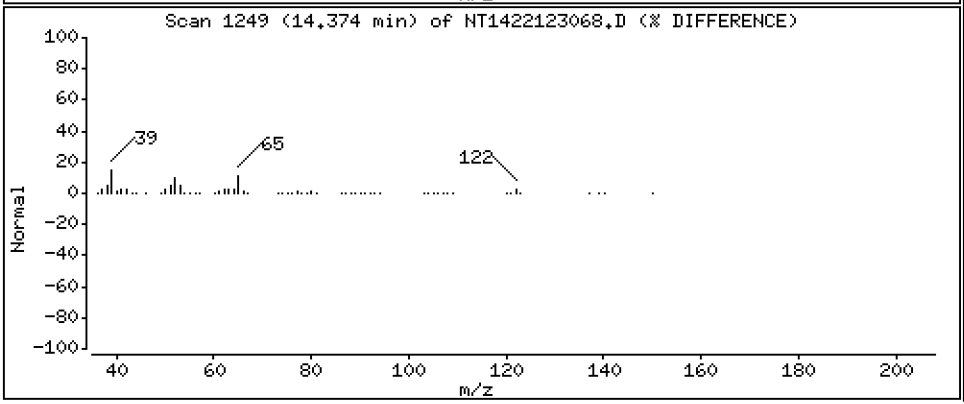
38 2-Nitroaniline

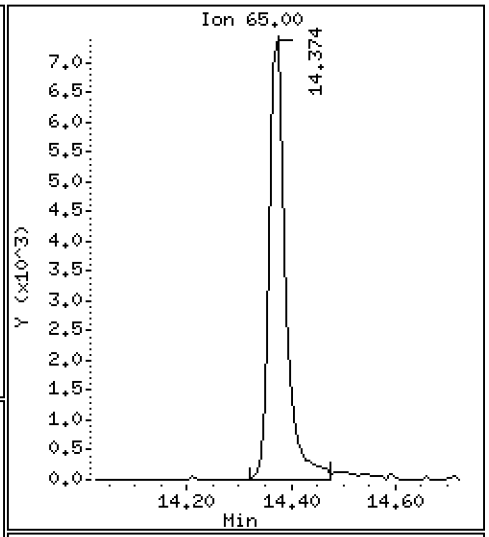
Concentration: 0.9872 ug/mL

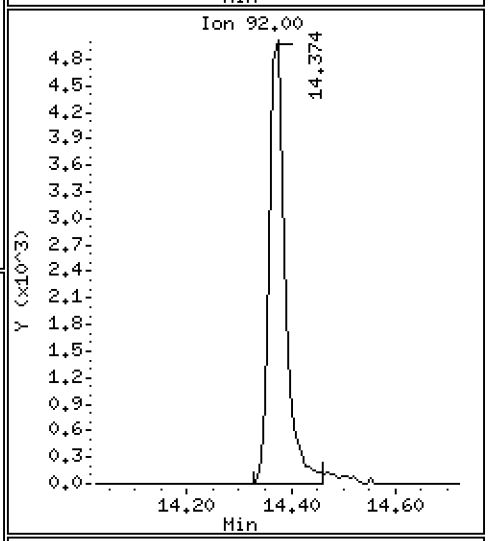


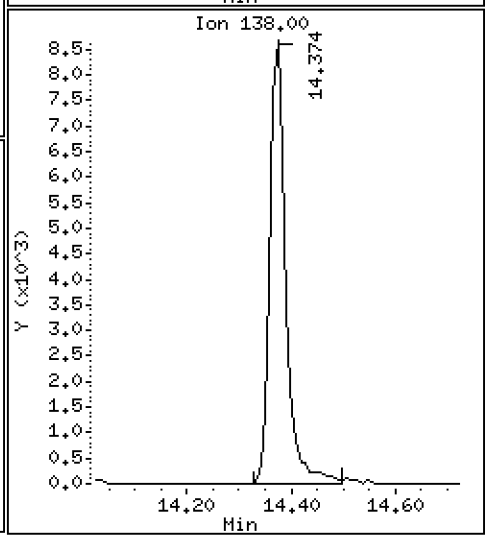












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

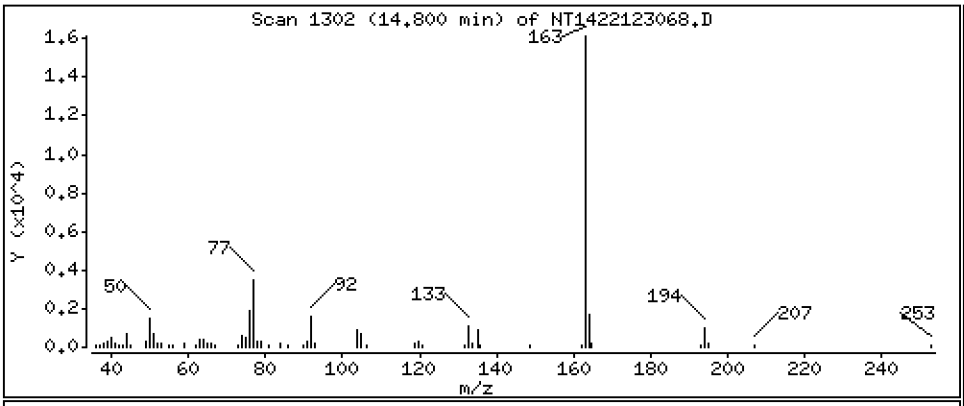
Operator: VTS

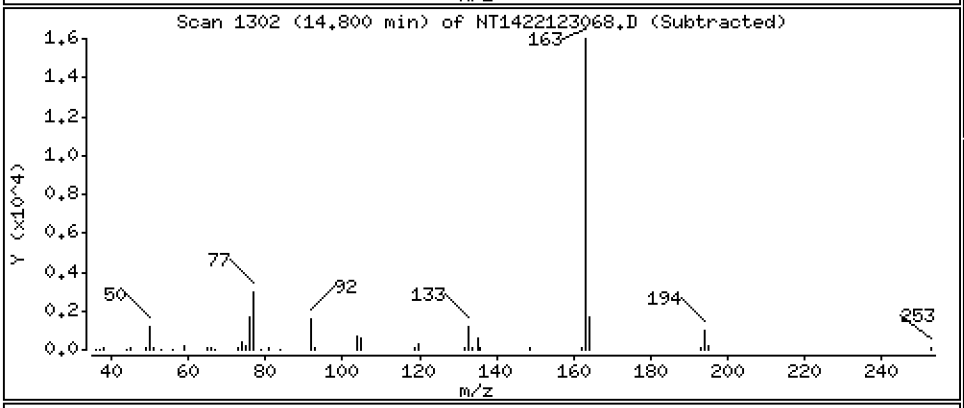
Column phase: ZB-5msi

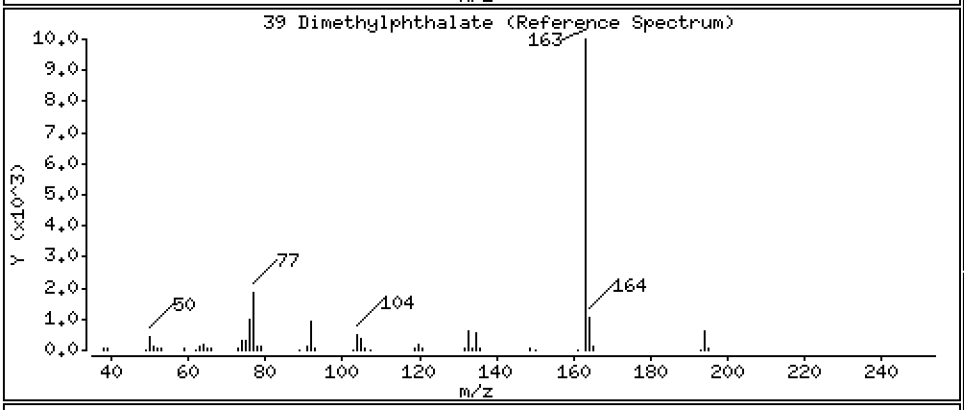
Column diameter: 0.25

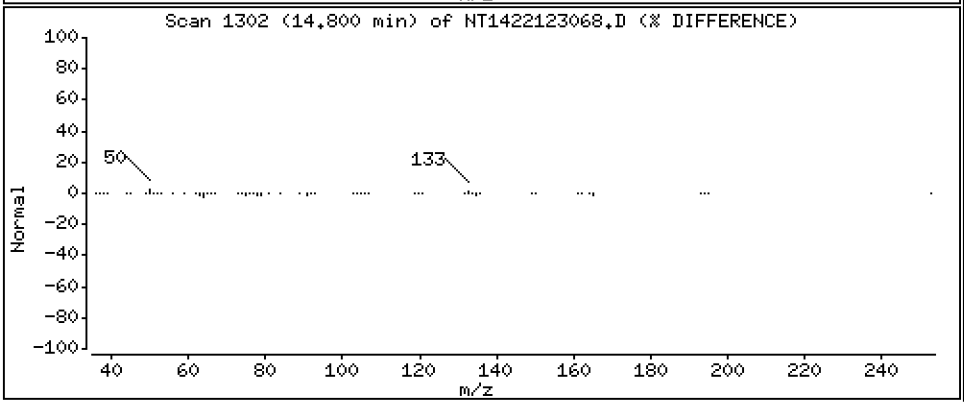
39 Dimethylphthalate

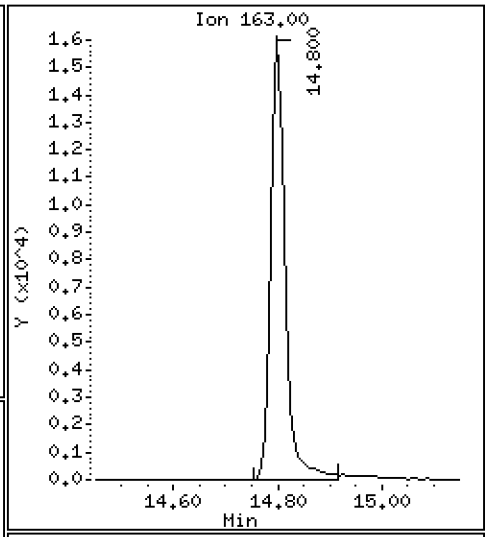
Concentration: 0.4956 ug/mL

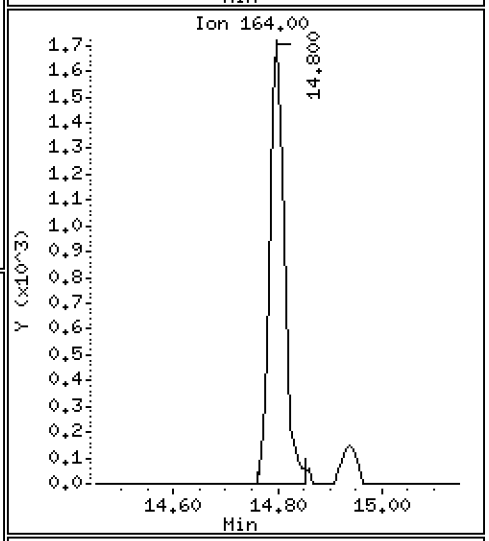


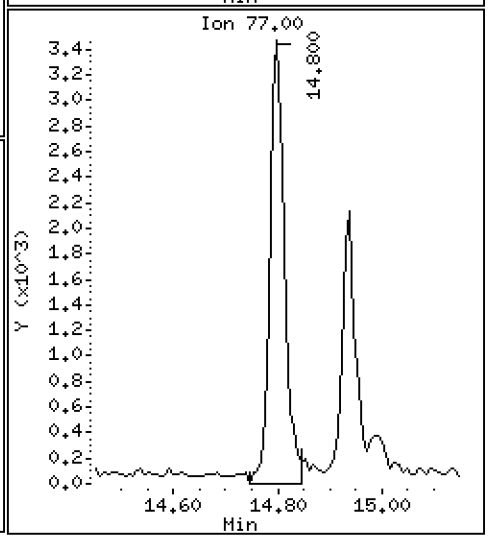












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

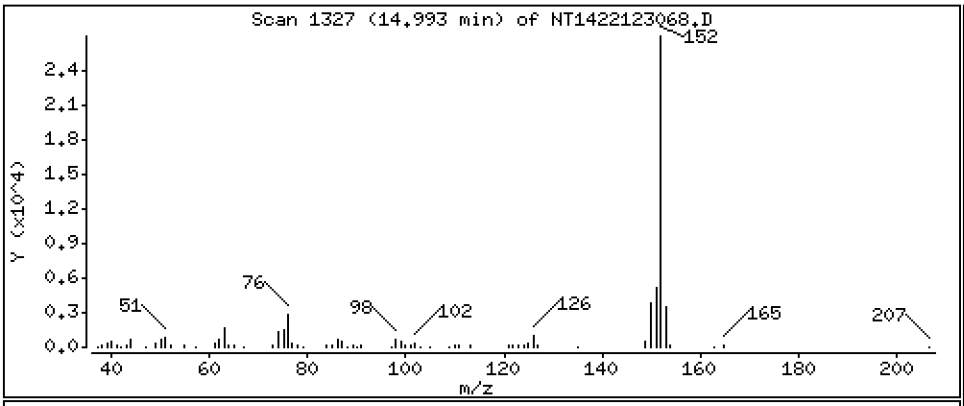
Operator: VTS

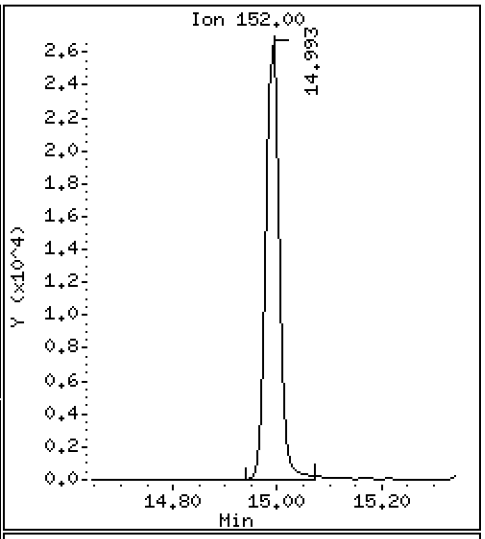
Column phase: ZB-5msi

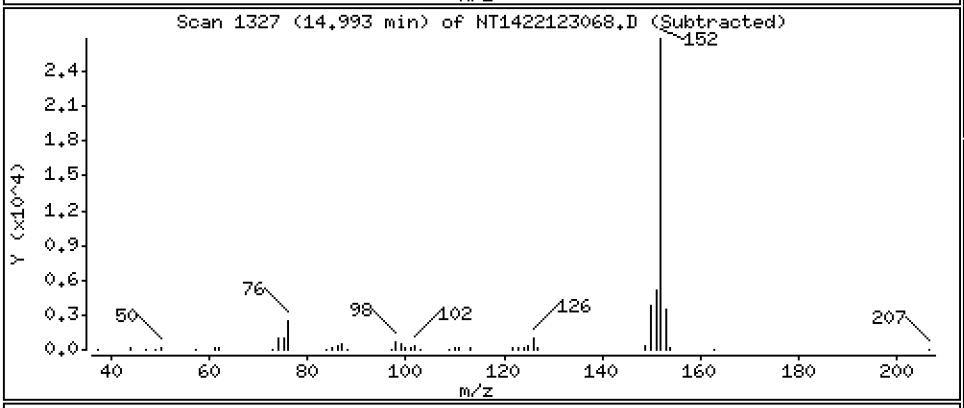
Column diameter: 0.25

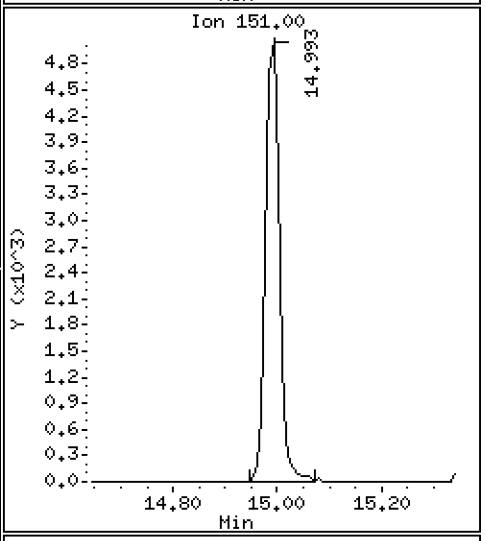
40 Acenaphthylene

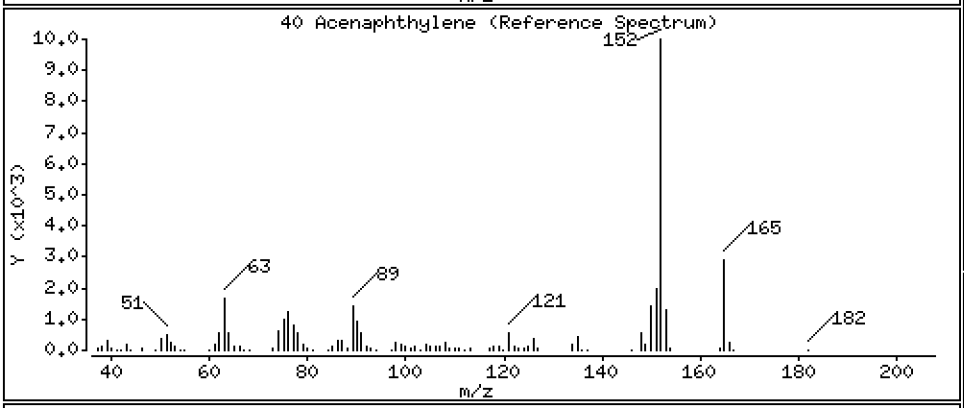
Concentration: 0.4979 ug/mL

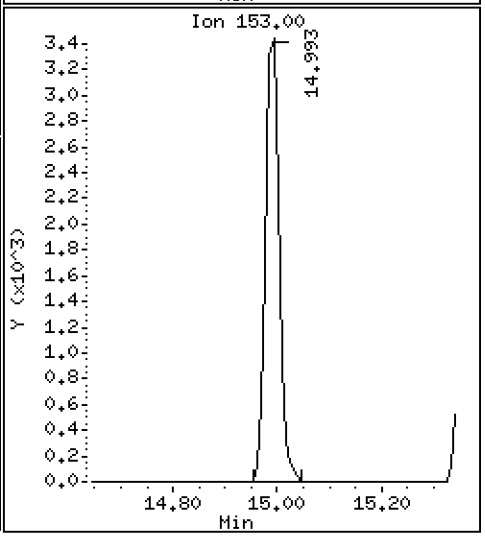


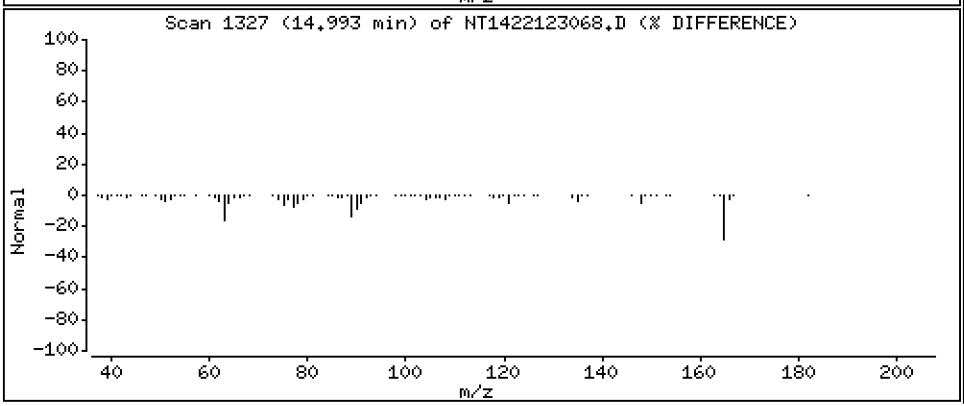












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

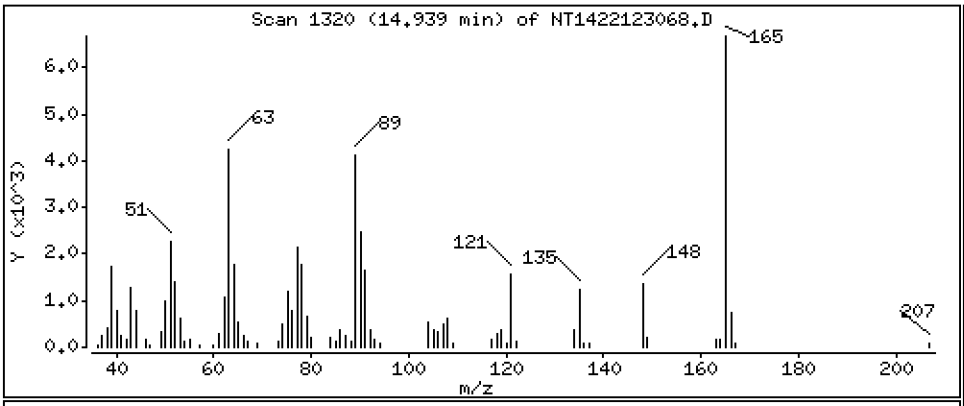
Operator: VTS

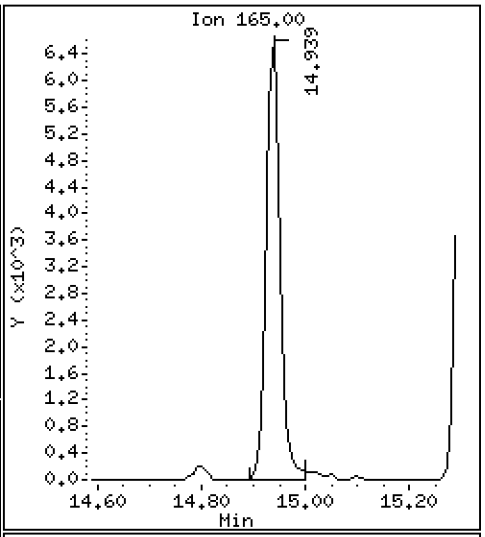
Column phase: ZB-5msi

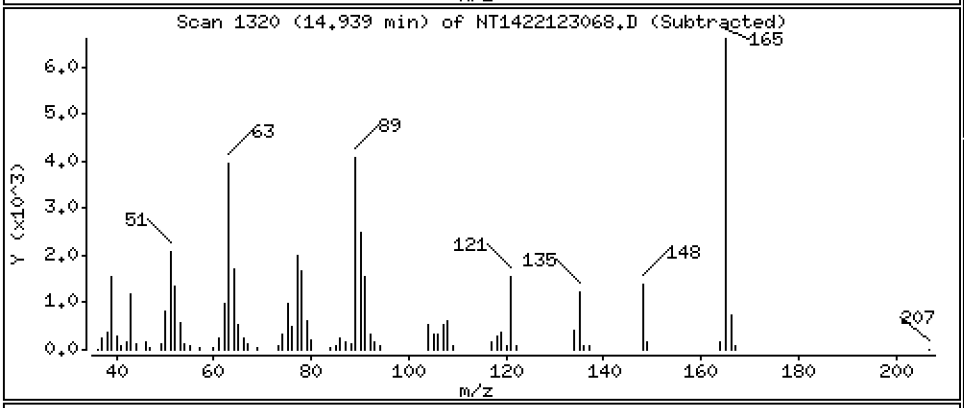
Column diameter: 0.25

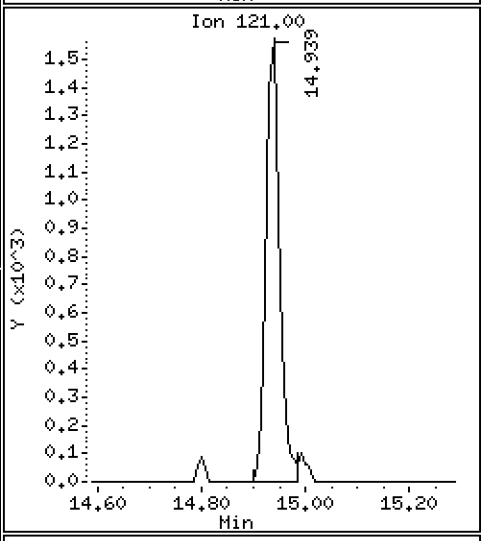
41 2,6-Dinitrotoluene

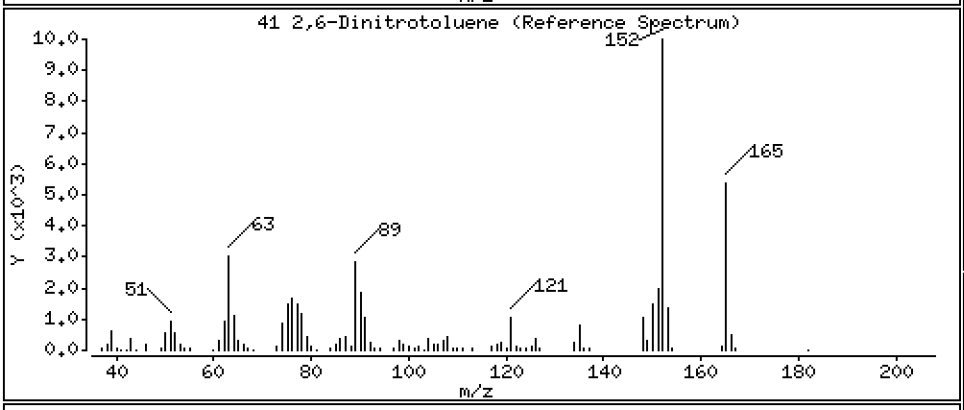
Concentration: 0.8726 ug/mL

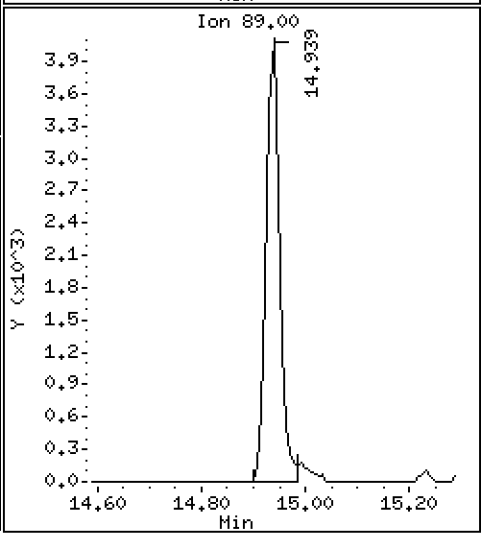


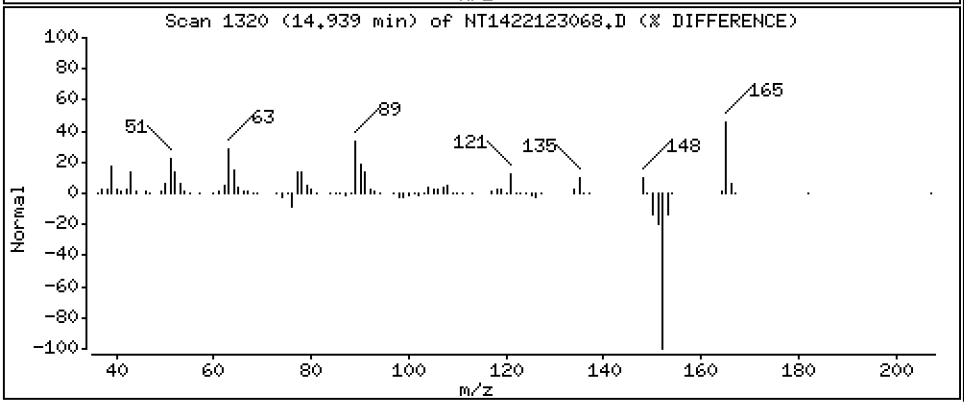












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

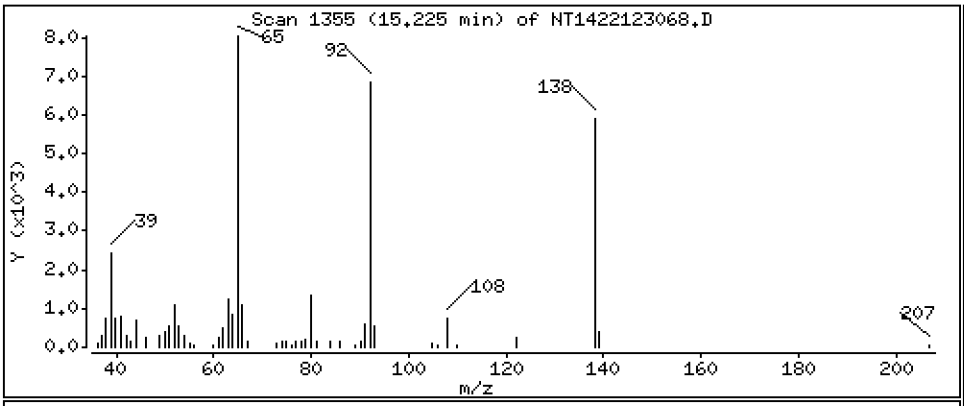
Operator: VTS

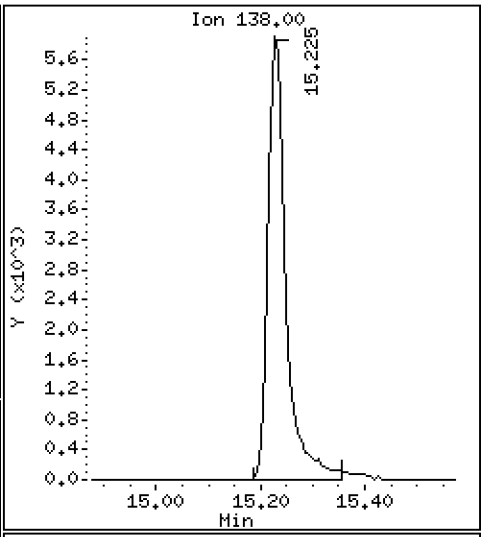
Column phase: ZB-5msi

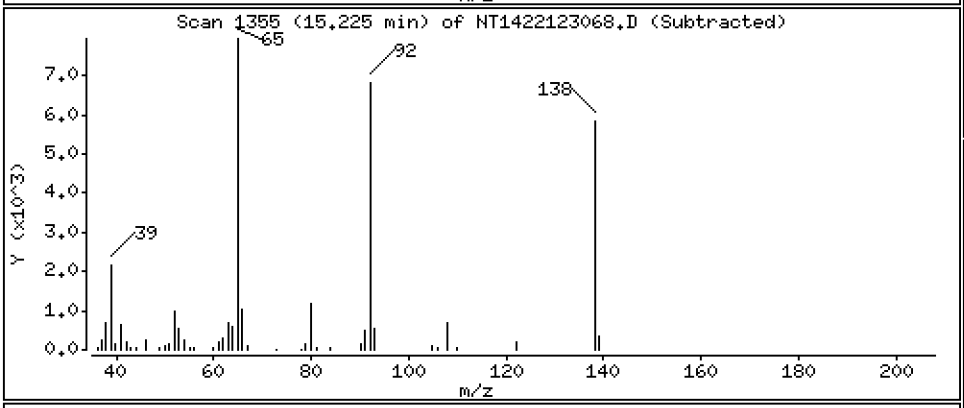
Column diameter: 0.25

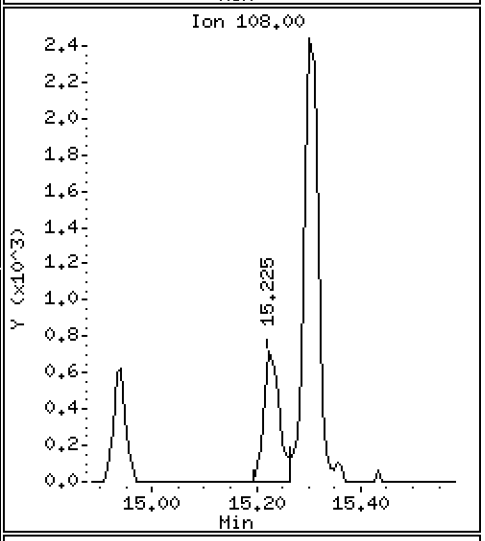
43 3-Nitroaniline

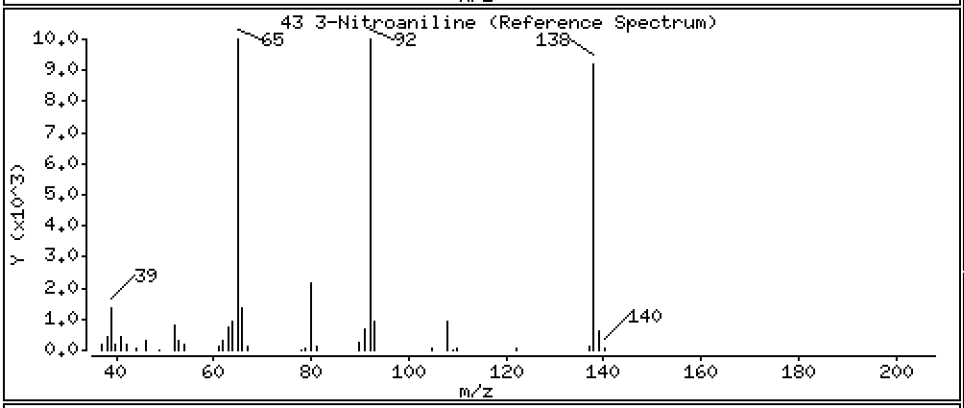
Concentration: 0.8487 ug/mL

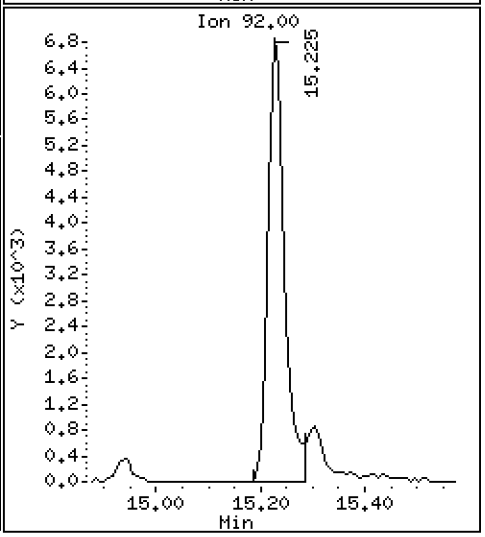


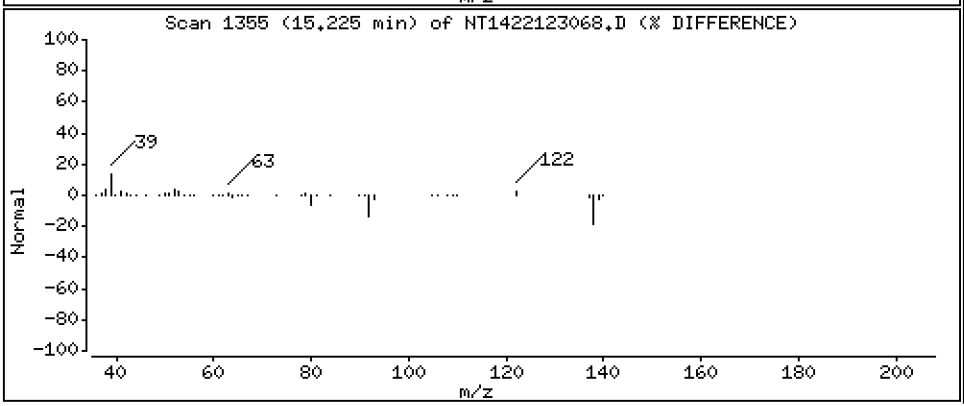












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

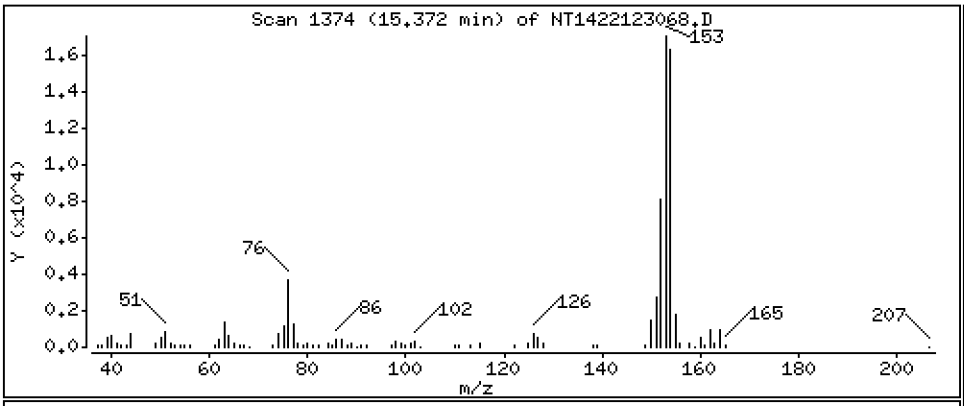
Operator: VTS

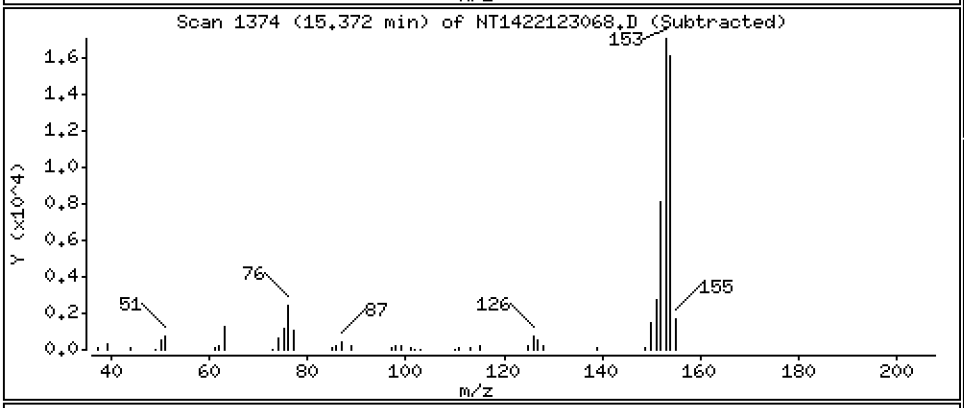
Column phase: ZB-5msi

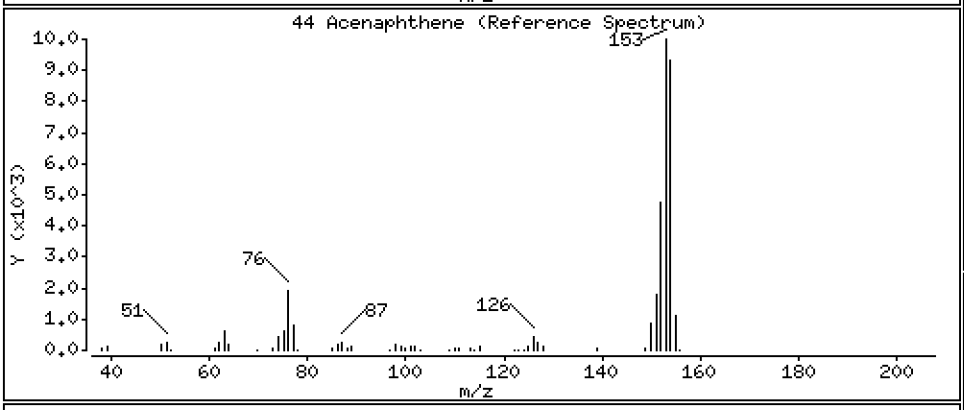
Column diameter: 0.25

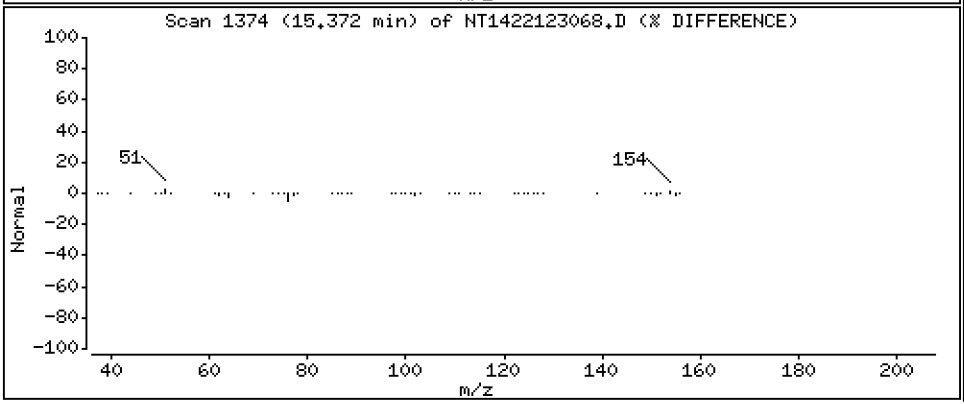
44 Acenaphthene

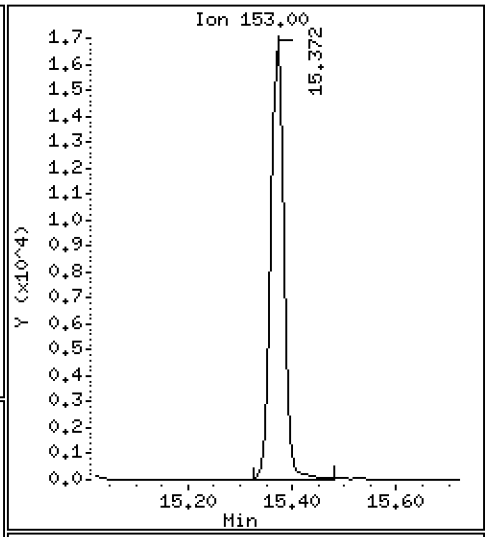
Concentration: 0.4955 ug/mL

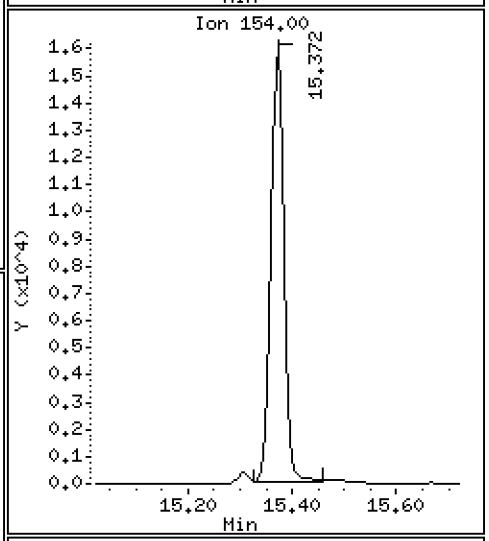


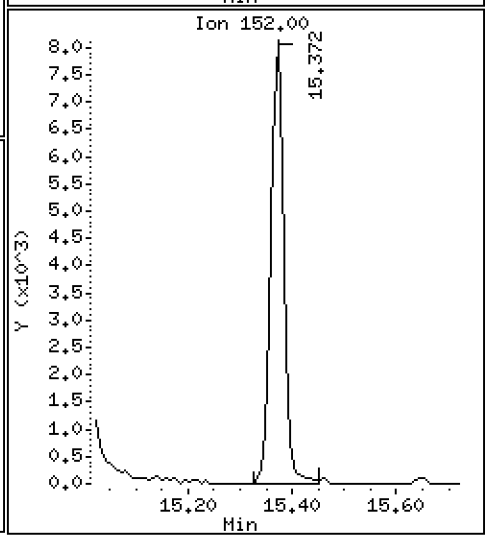












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

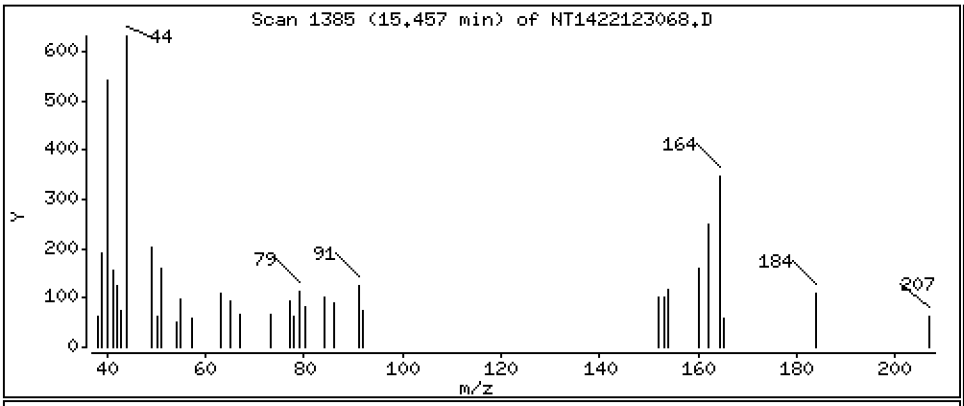
Operator: VTS

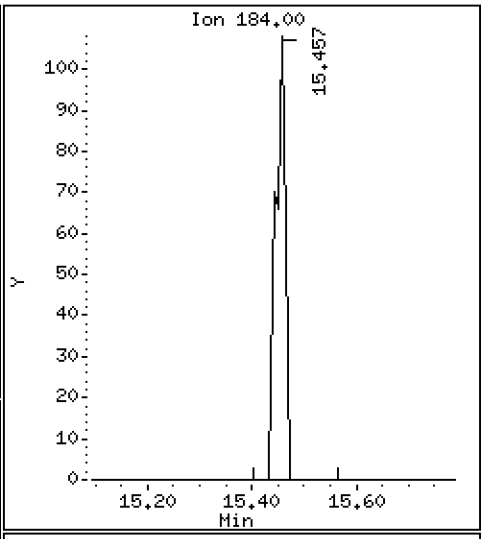
Column phase: ZB-5msi

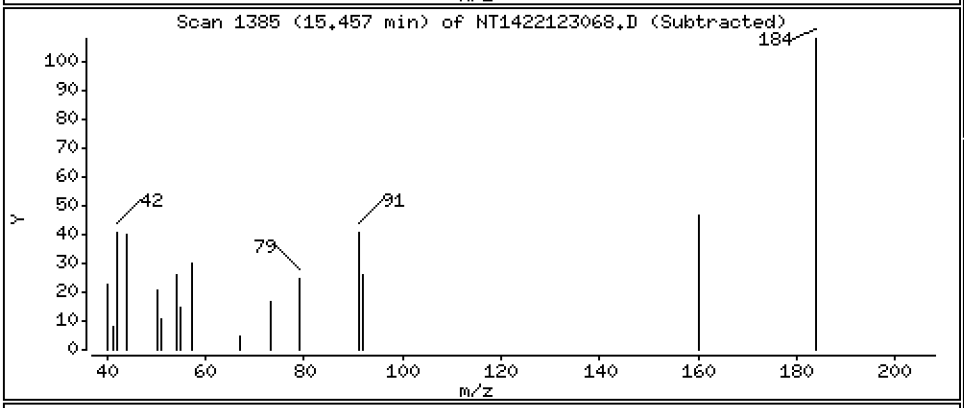
Column diameter: 0.25

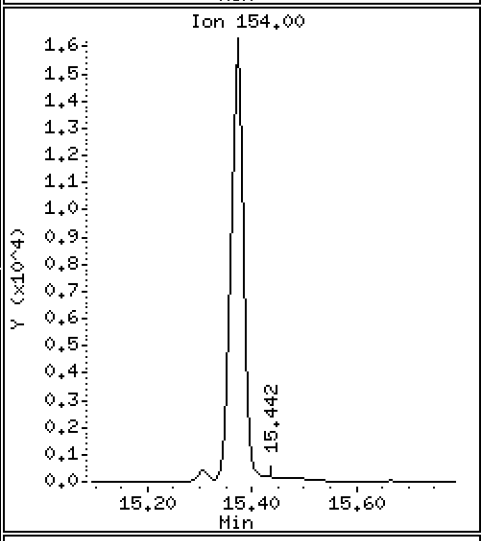
45 2,4-Dinitrophenol

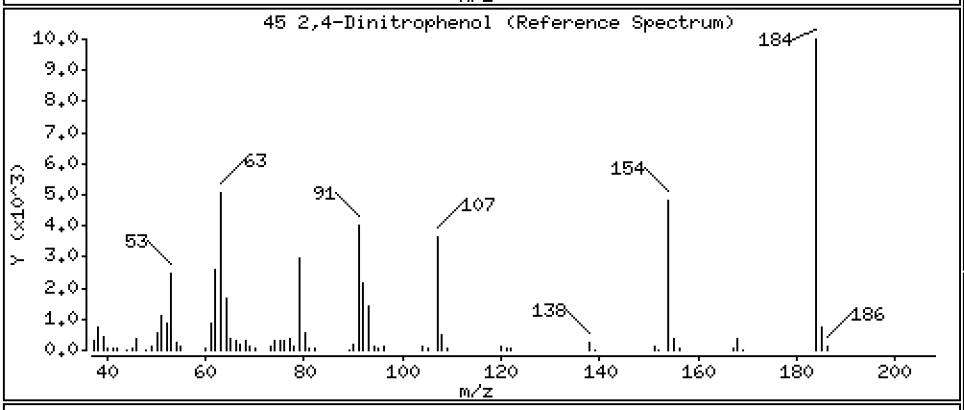
Concentration: 0.01232 ug/mL

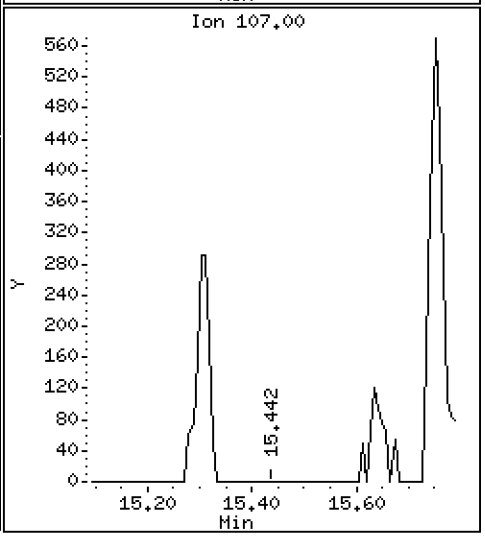


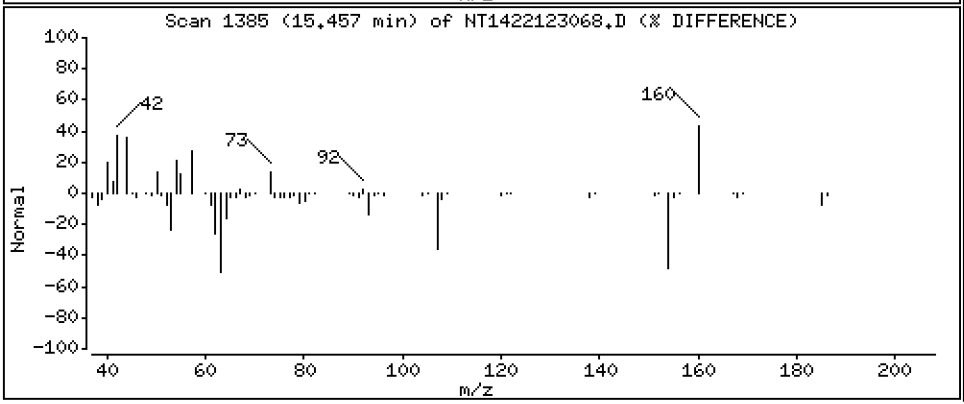












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

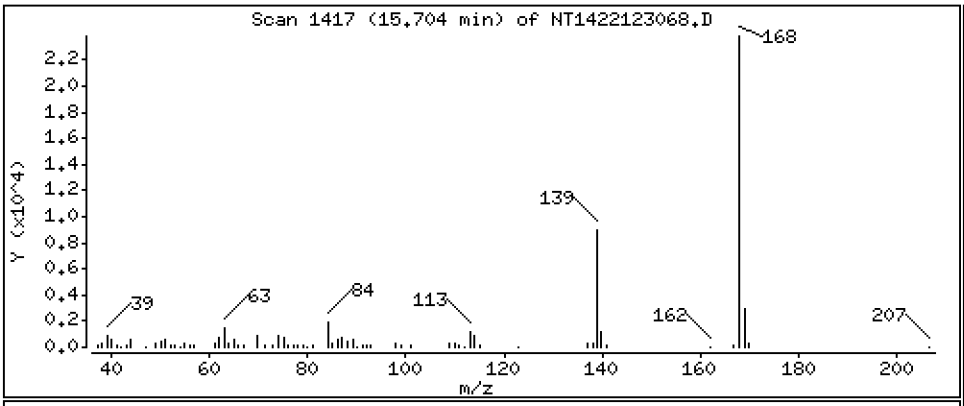
Operator: VTS

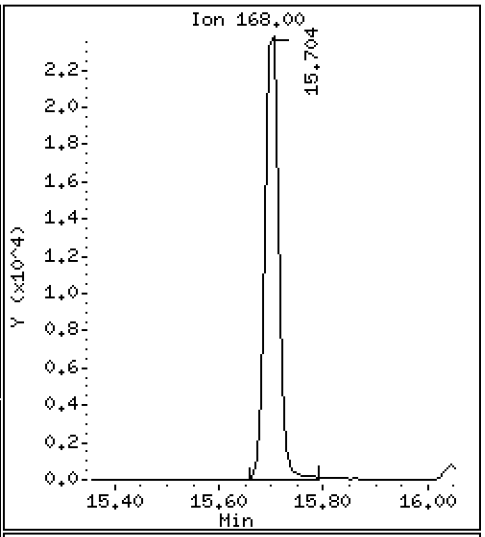
Column phase: ZB-5msi

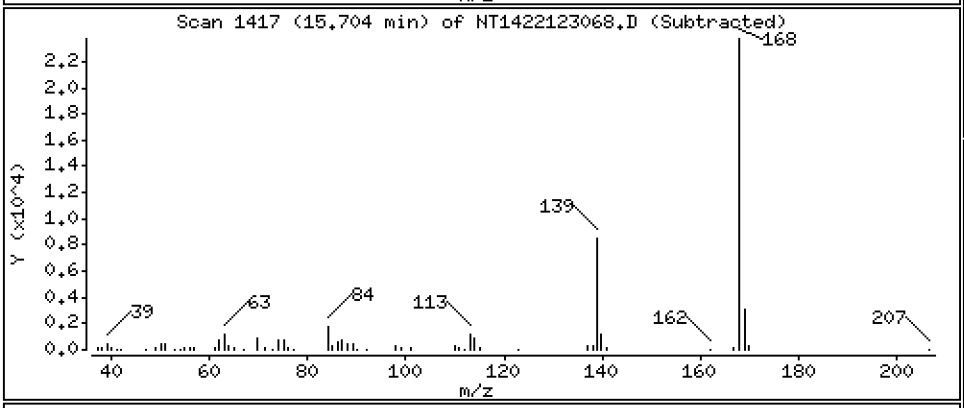
Column diameter: 0.25

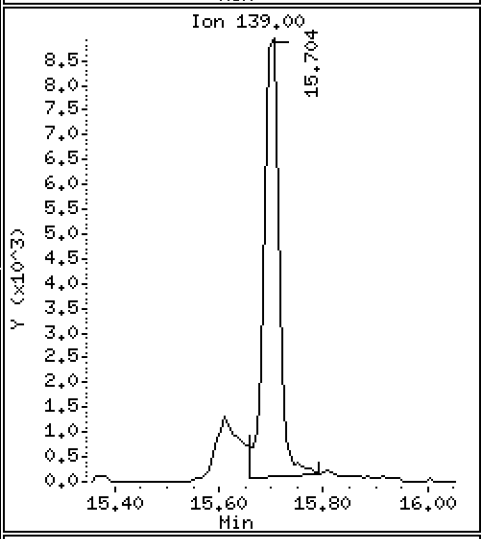
46 Dibenzofuran

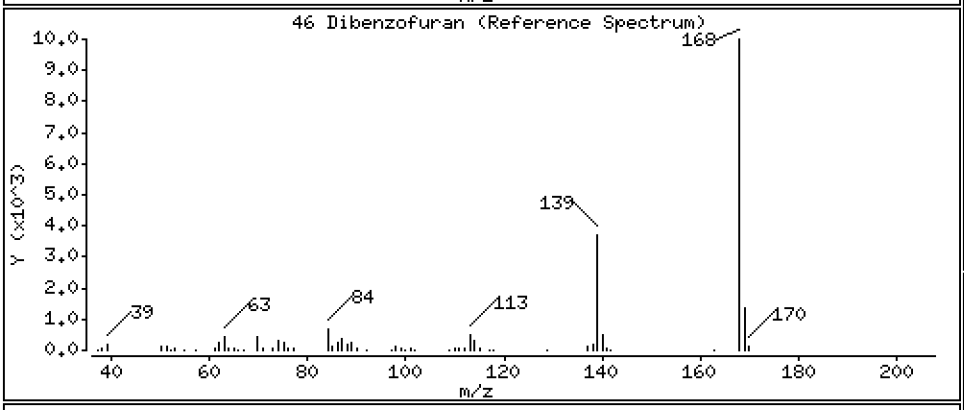
Concentration: 0.4928 ug/mL

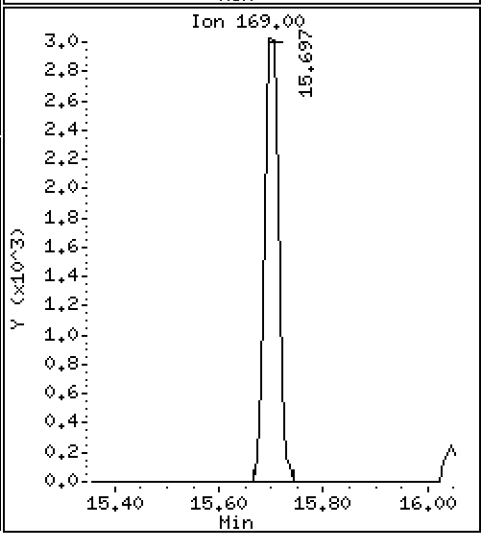


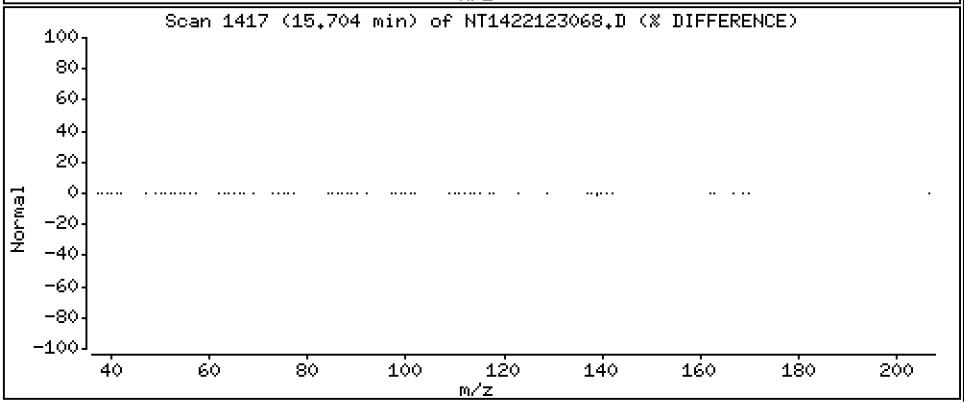












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

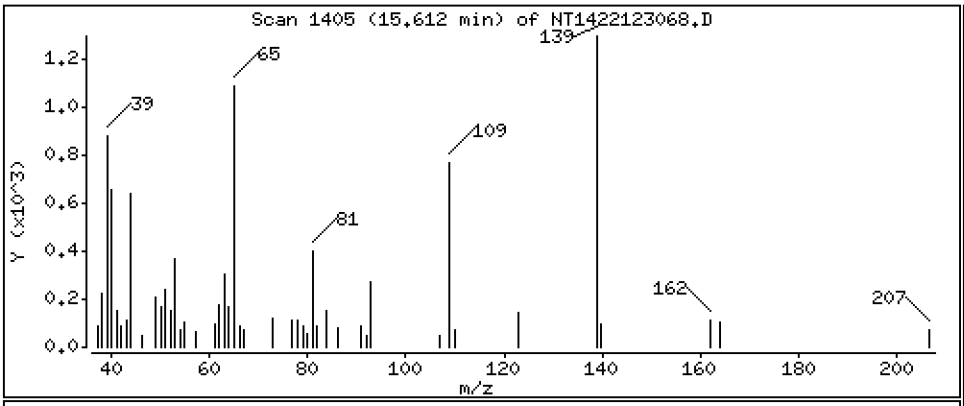
Operator: VTS

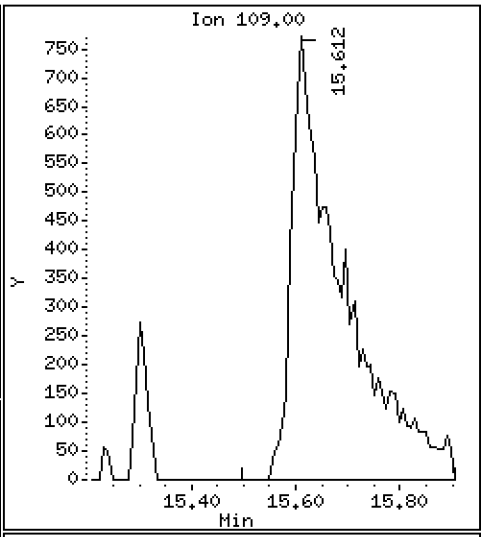
Column phase: ZB-5msi

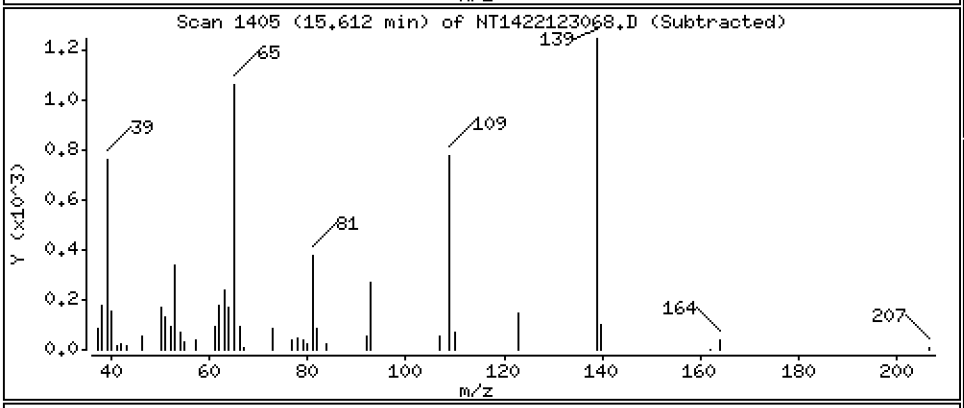
Column diameter: 0.25

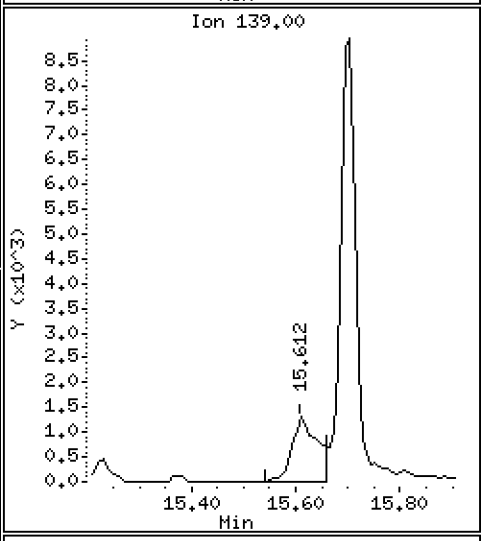
47 4-Nitrophenol

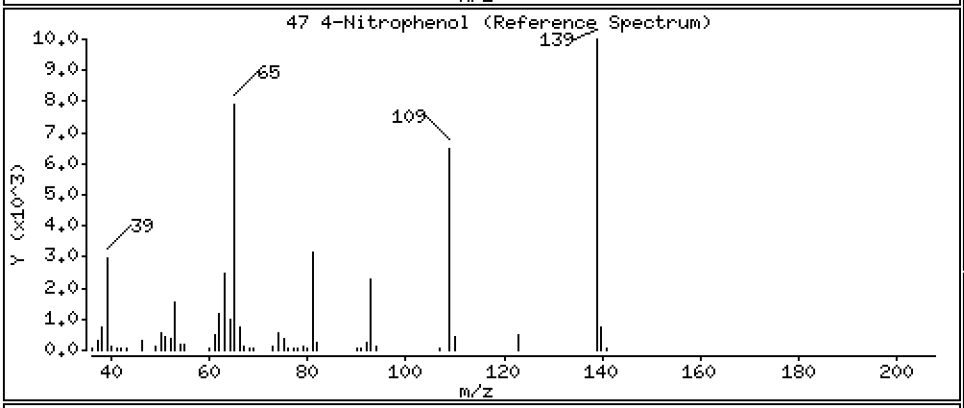
Concentration: 0.6719 ug/mL

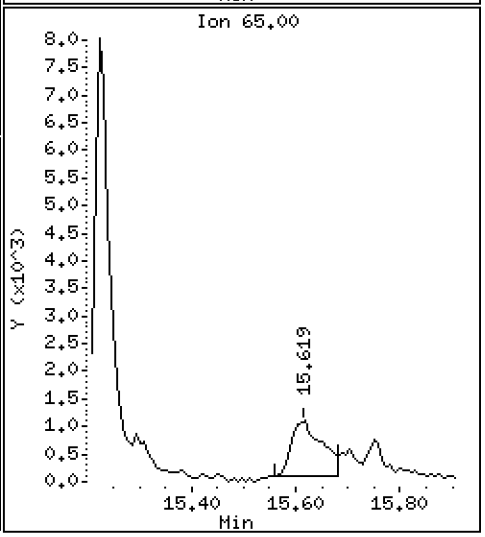


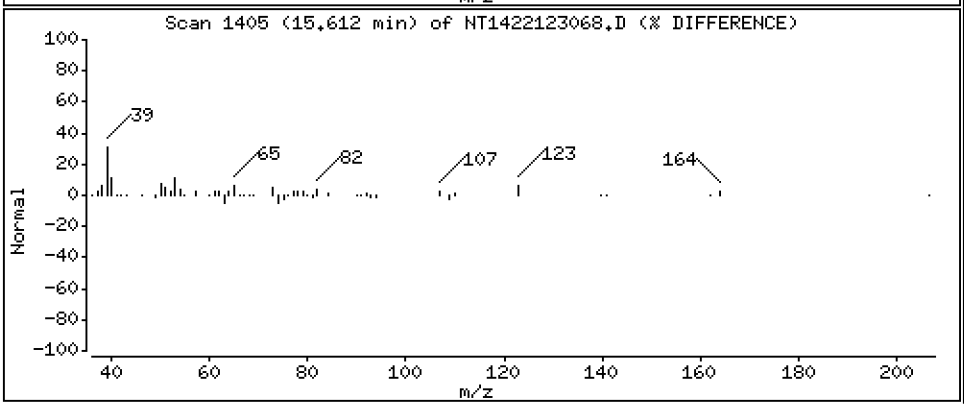












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

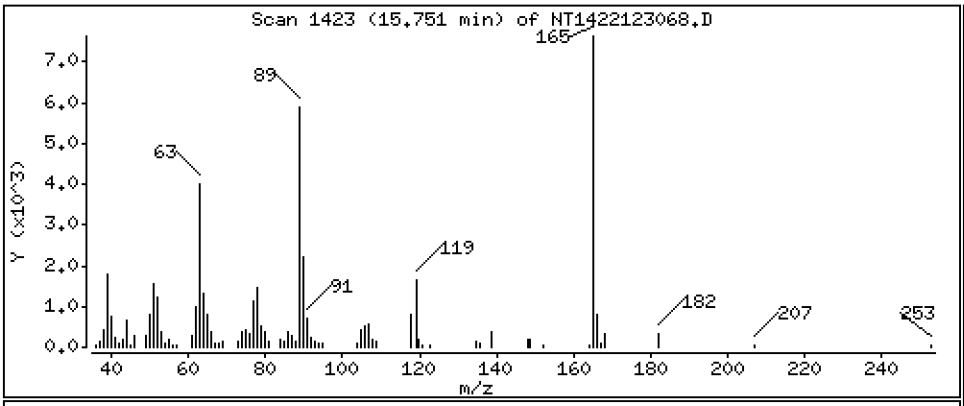
Operator: VTS

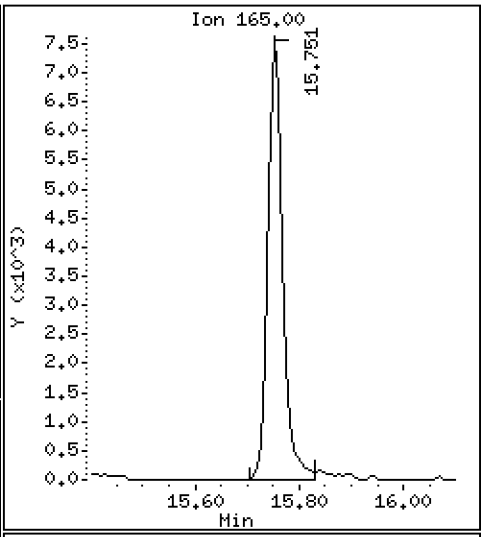
Column phase: ZB-5msi

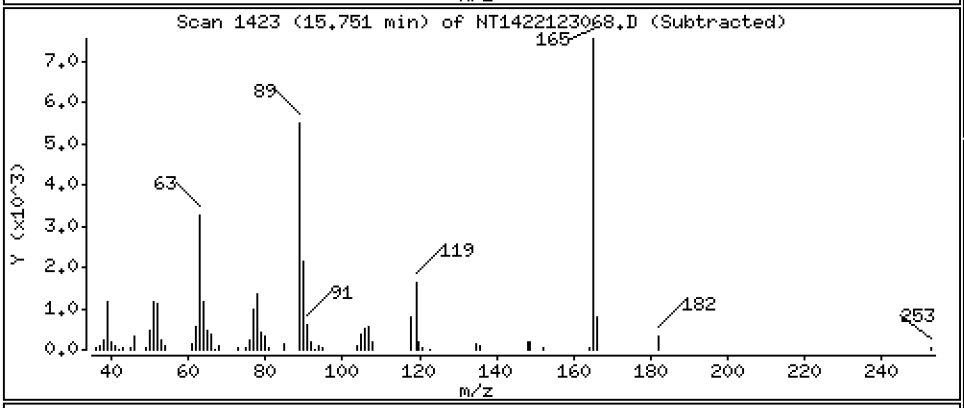
Column diameter: 0.25

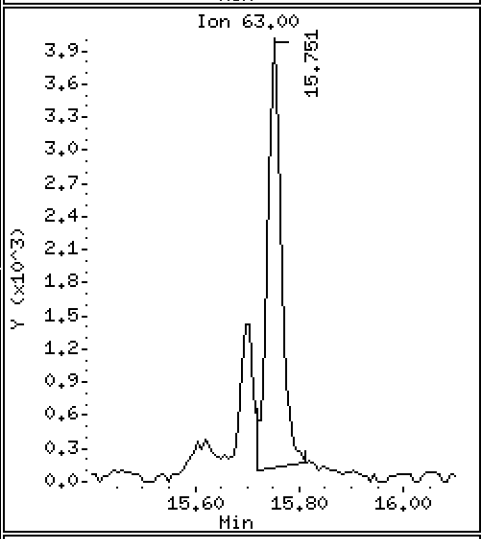
48 2,4-Dinitrotoluene

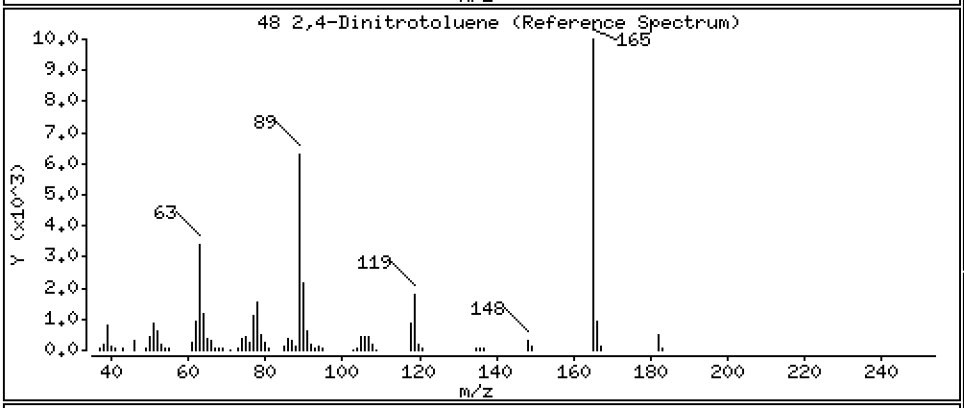
Concentration: 0.7780 ug/mL

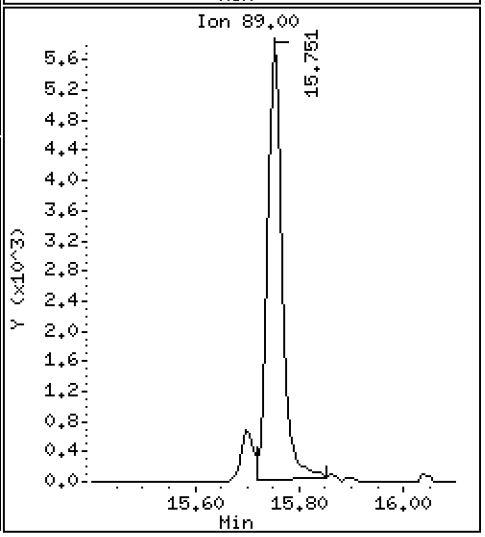


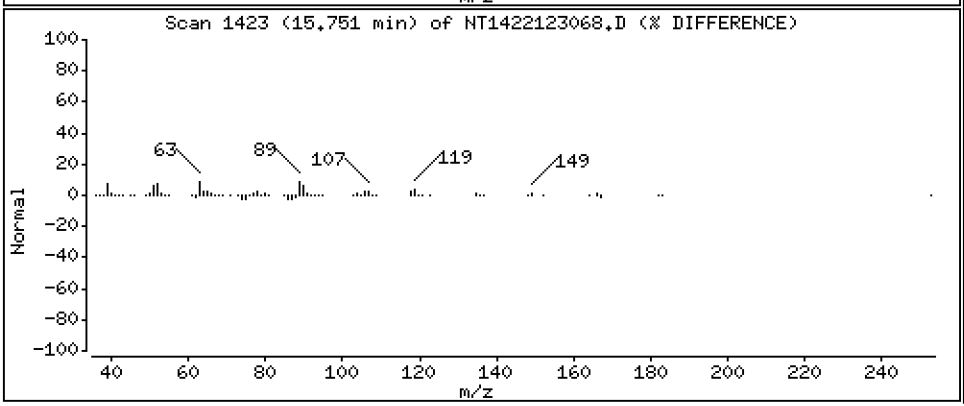












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

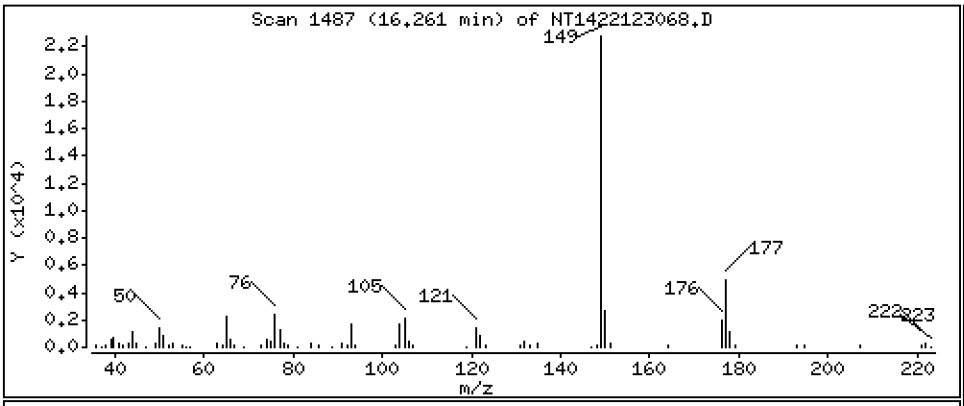
Operator: VTS

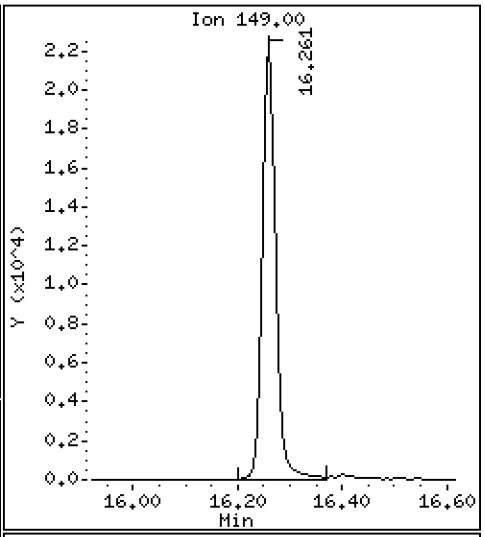
Column phase: ZB-5msi

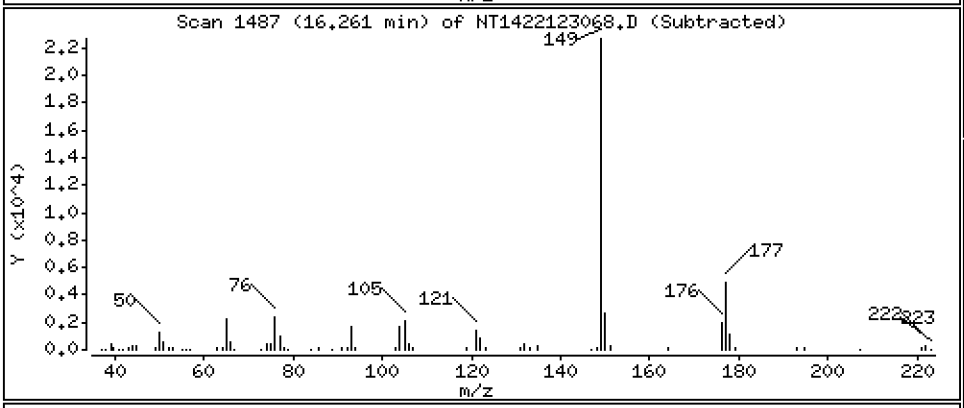
Column diameter: 0.25

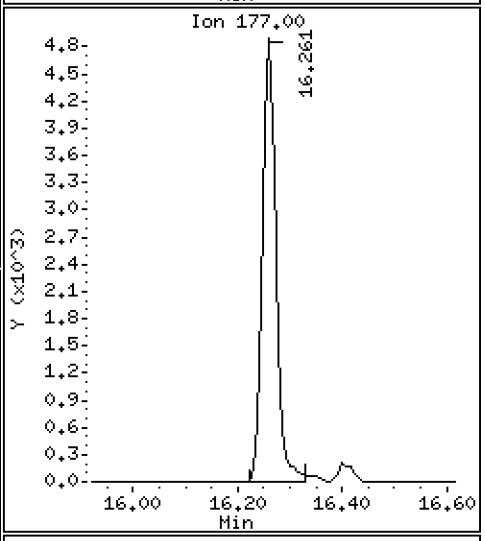
50 Diethylphthalate

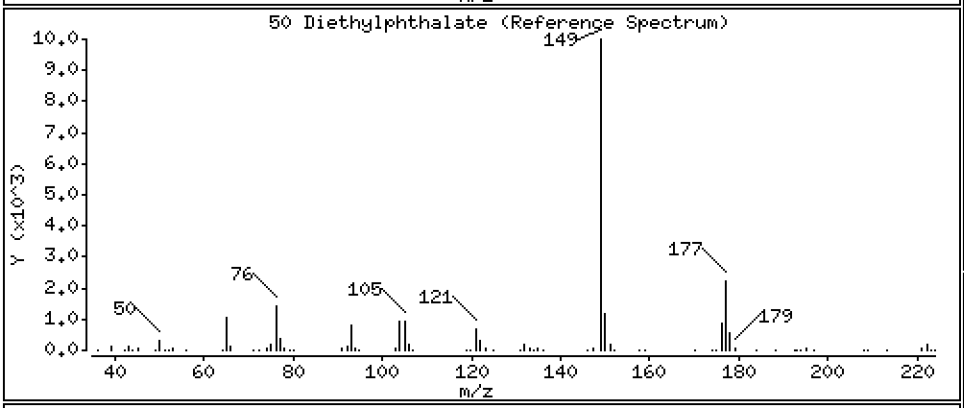
Concentration: 0.5719 ug/mL

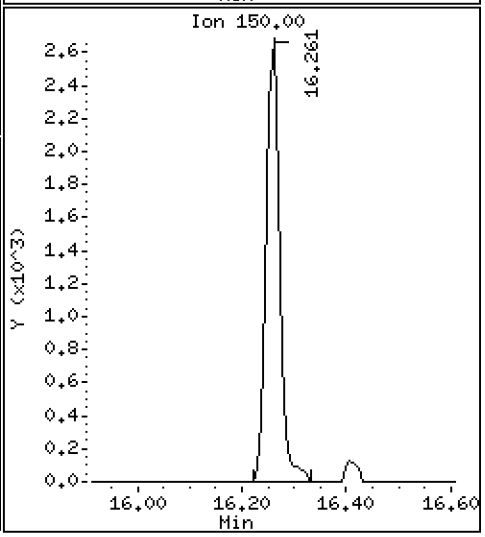


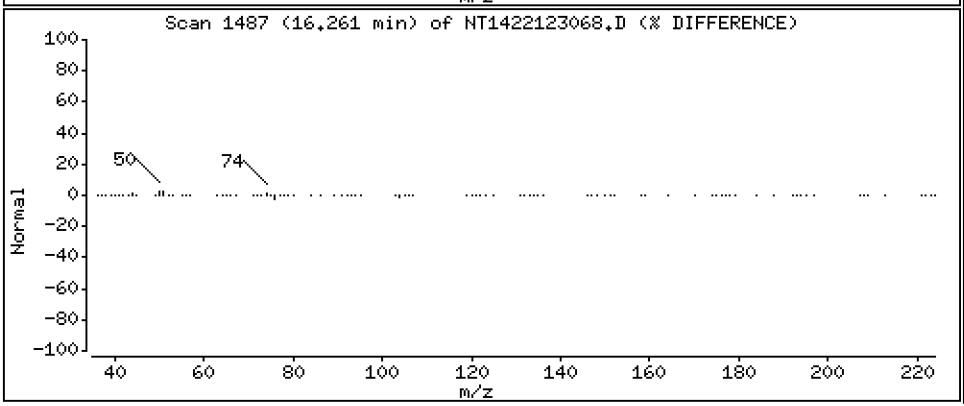












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

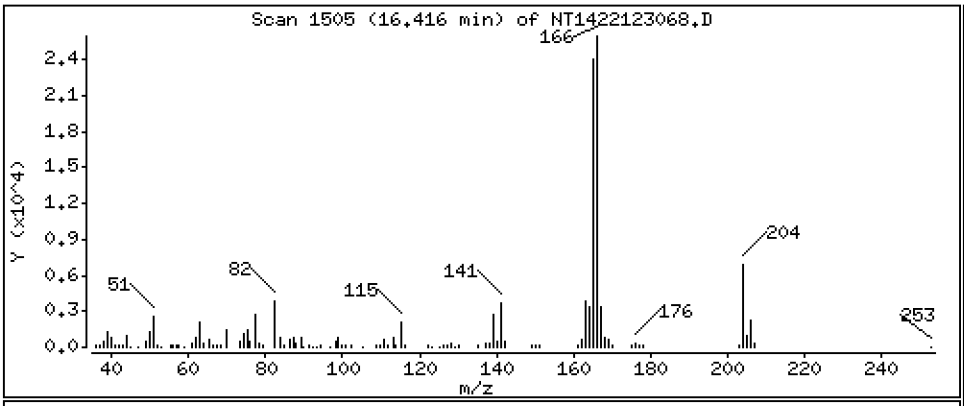
Operator: VTS

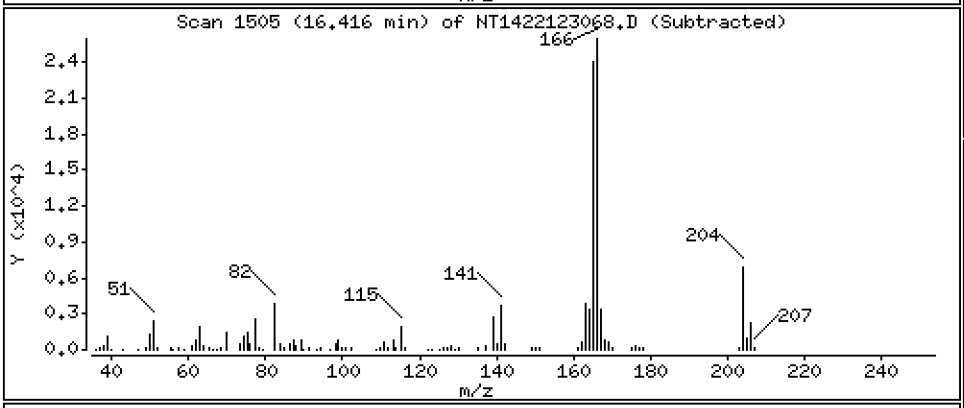
Column phase: ZB-5msi

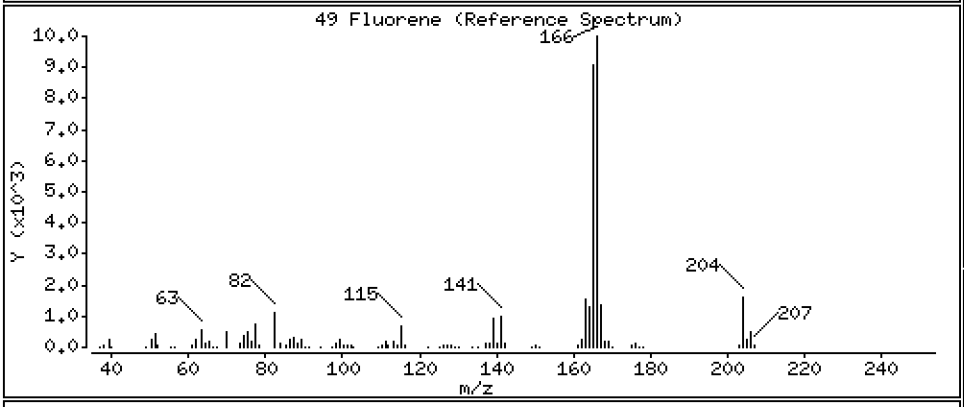
Column diameter: 0.25

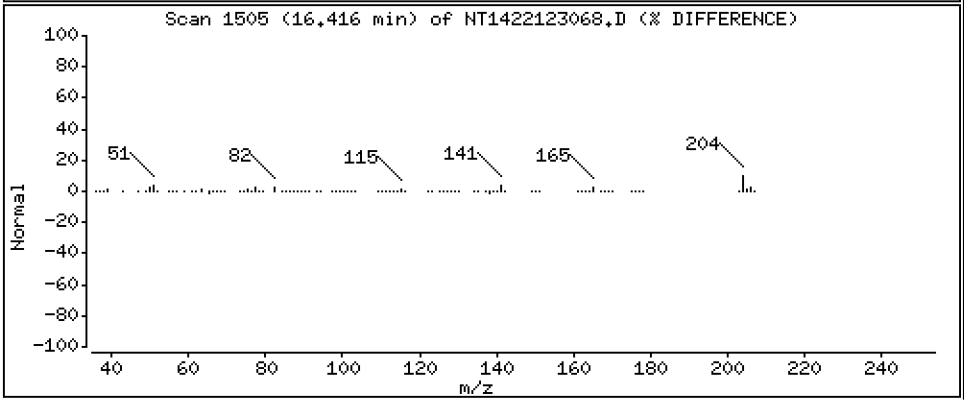
49 Fluorene

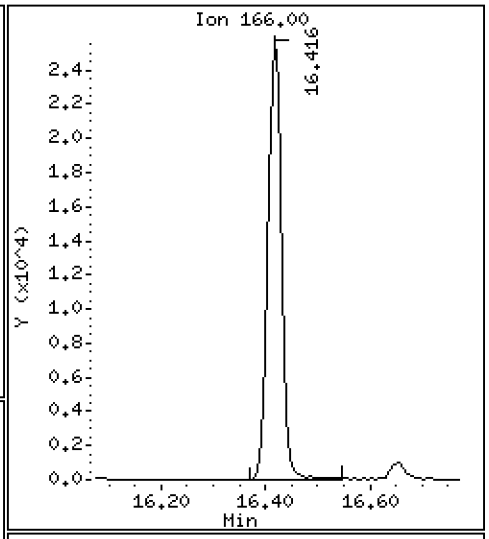
Concentration: 0.4880 ug/mL

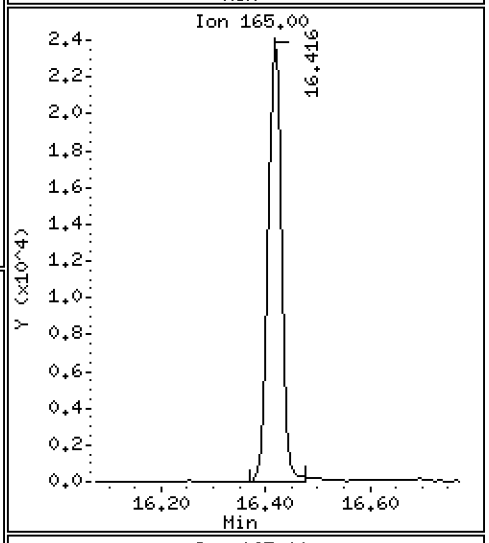


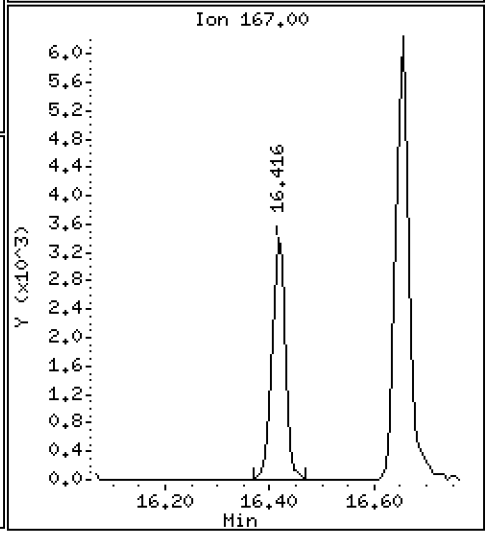












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

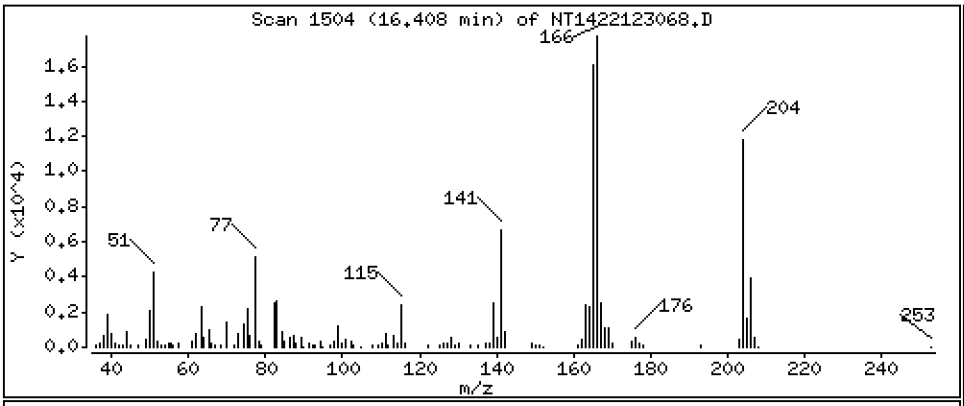
Operator: VTS

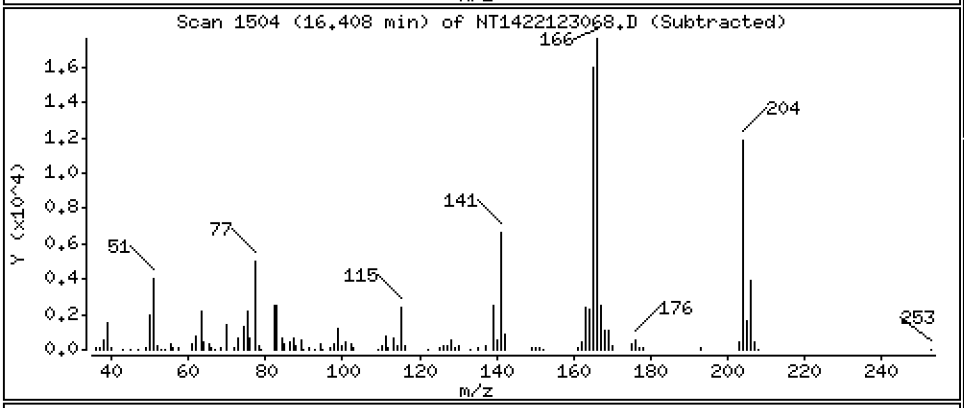
Column phase: ZB-5msi

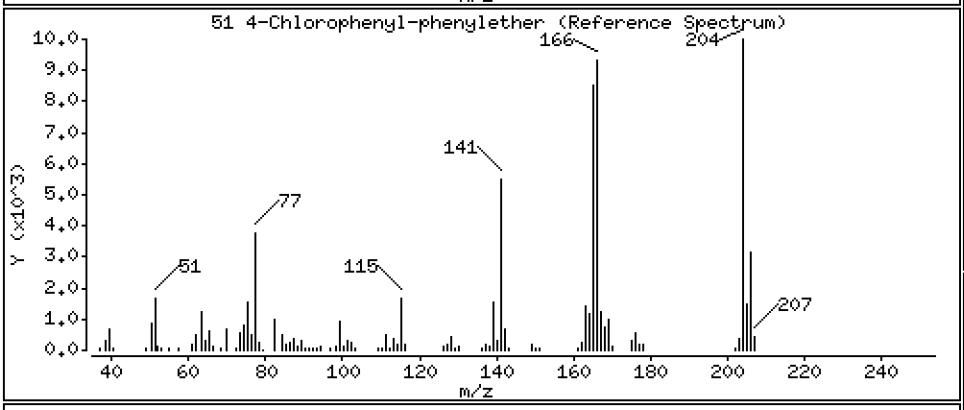
Column diameter: 0.25

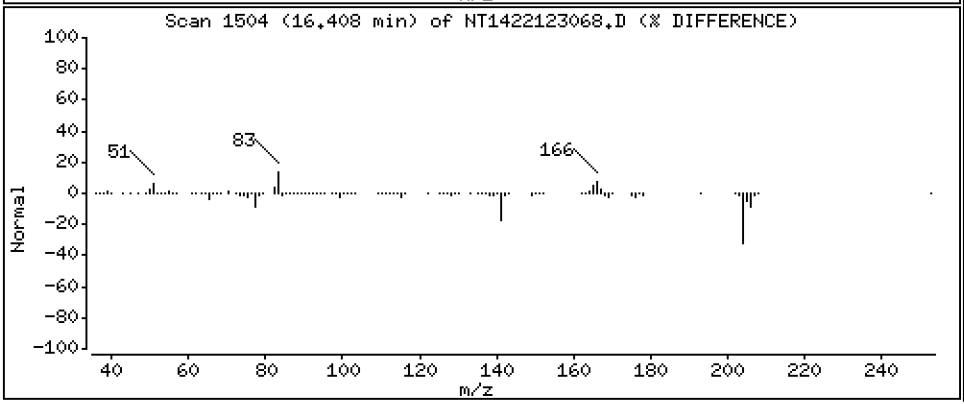
51 4-Chlorophenyl-phenylether

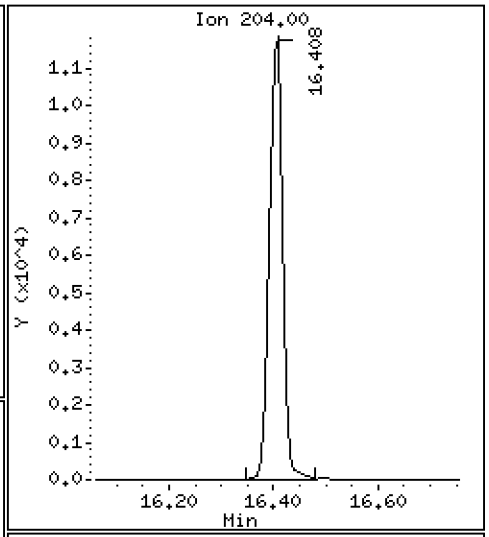
Concentration: 0.5123 ug/mL

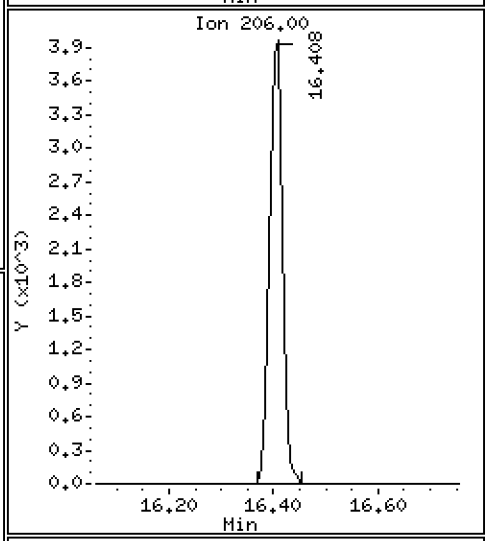


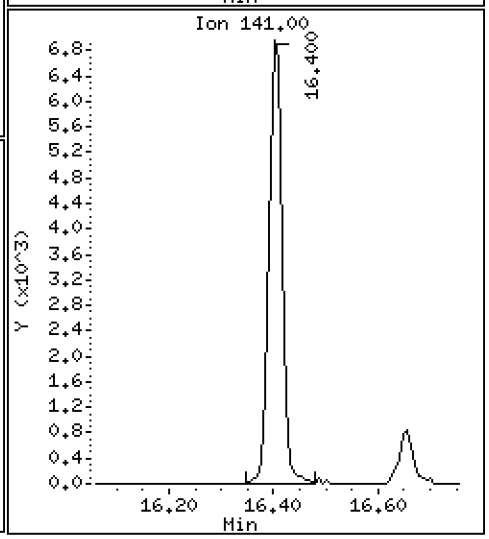












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

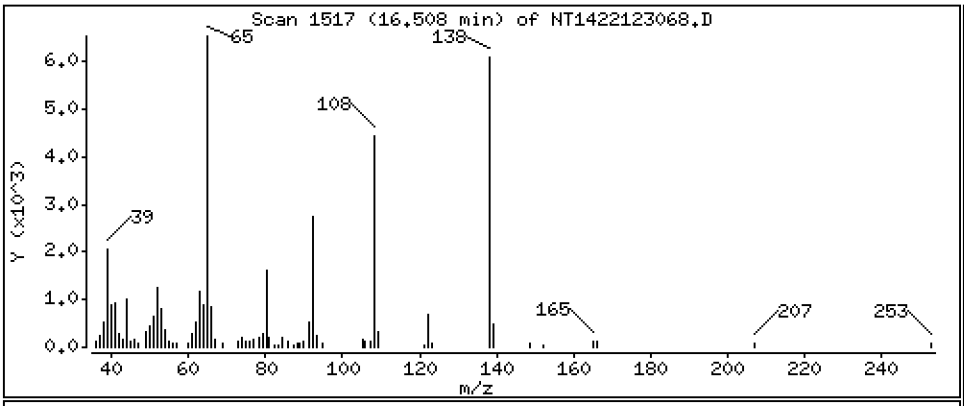
Operator: VTS

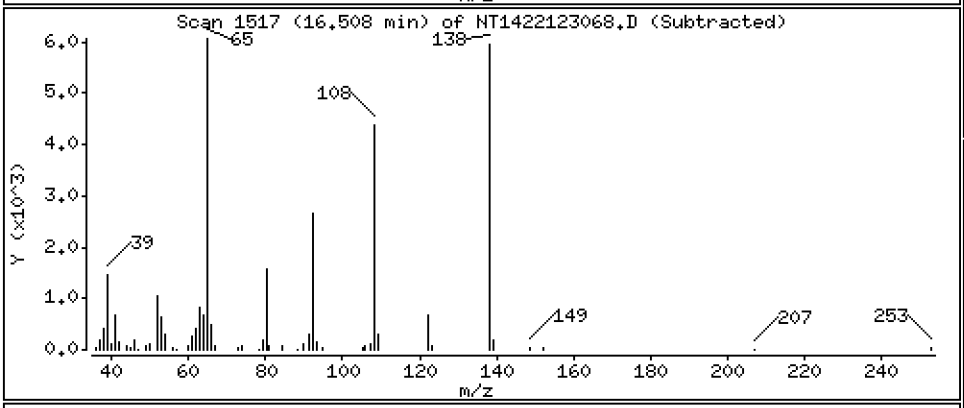
Column phase: ZB-5msi

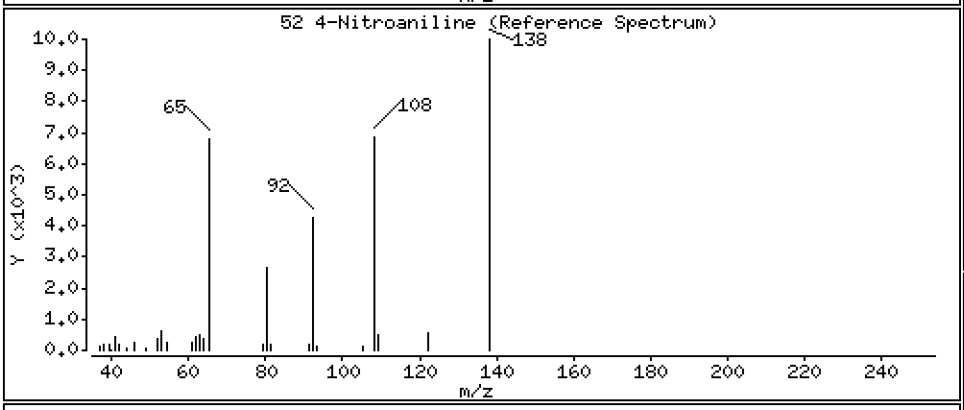
Column diameter: 0.25

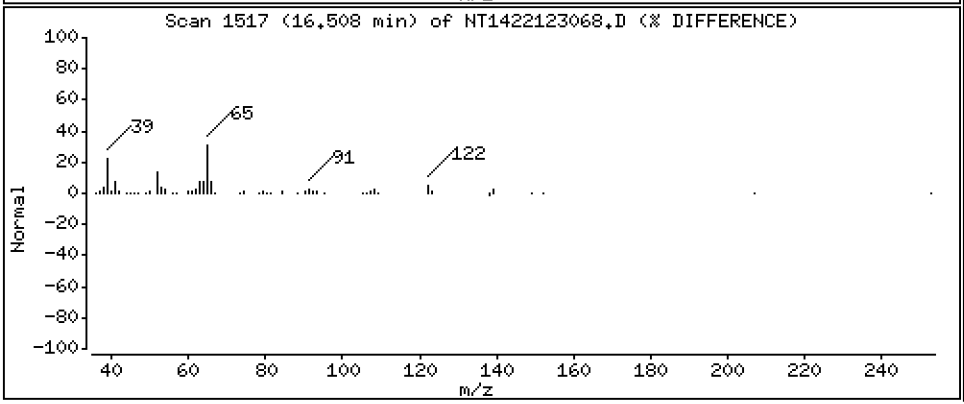
52 4-Nitroaniline

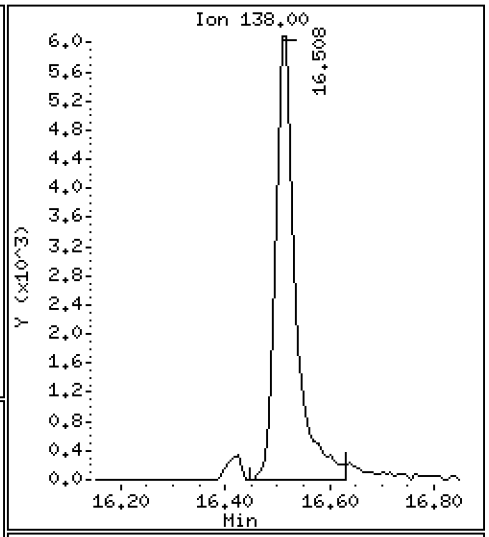
Concentration: 0.8313 ug/mL

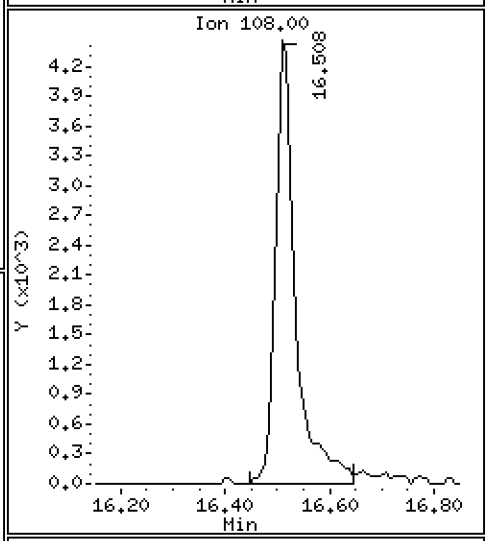


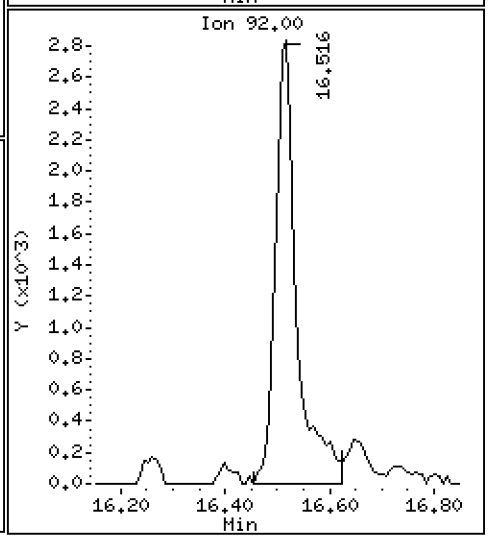












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

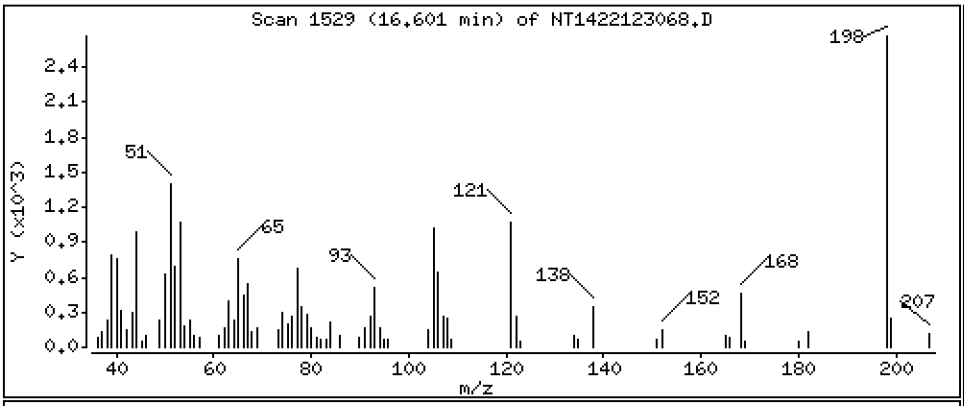
Operator: VTS

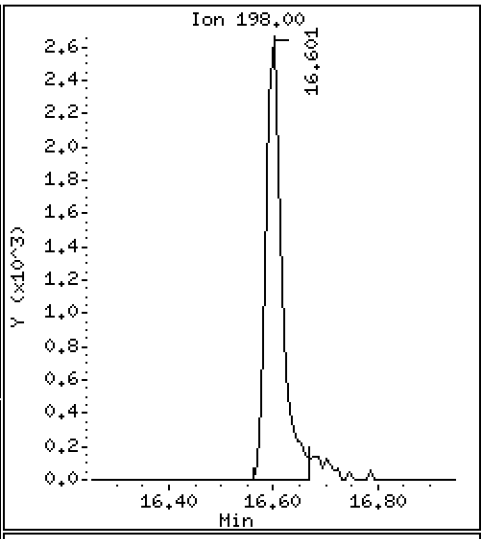
Column phase: ZB-5msi

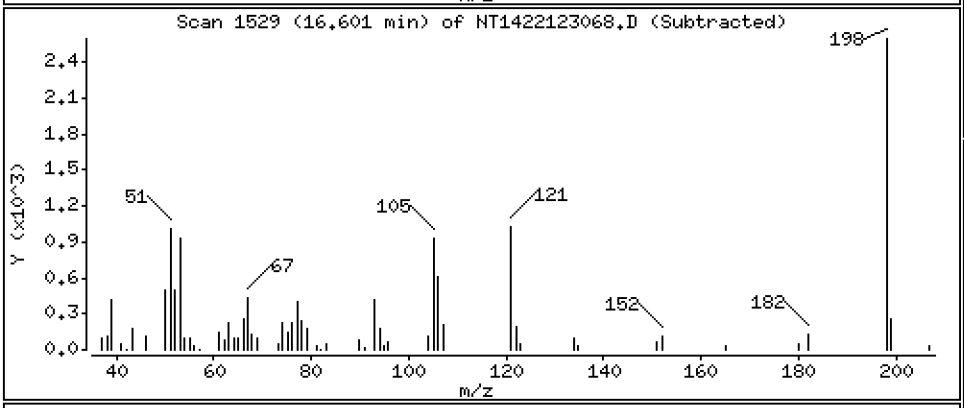
Column diameter: 0.25

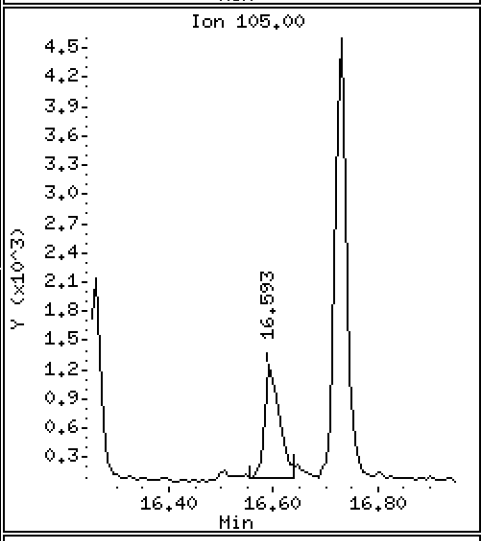
53 4,6-Dinitro-2-methylphenol

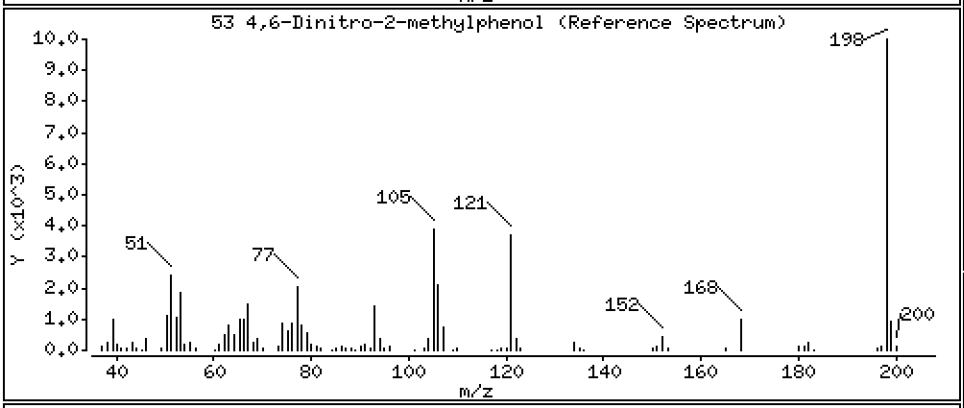
Concentration: 0.3826 ug/mL

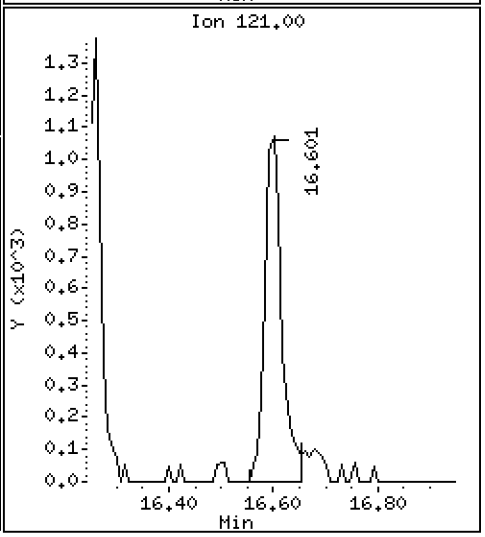


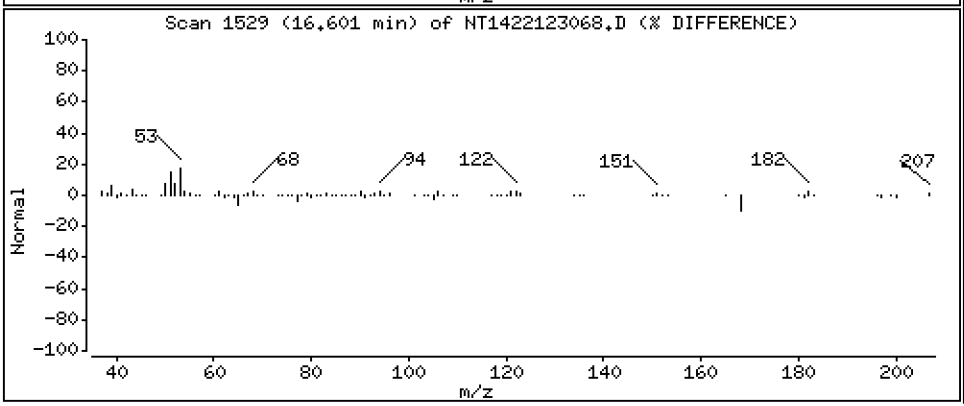












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

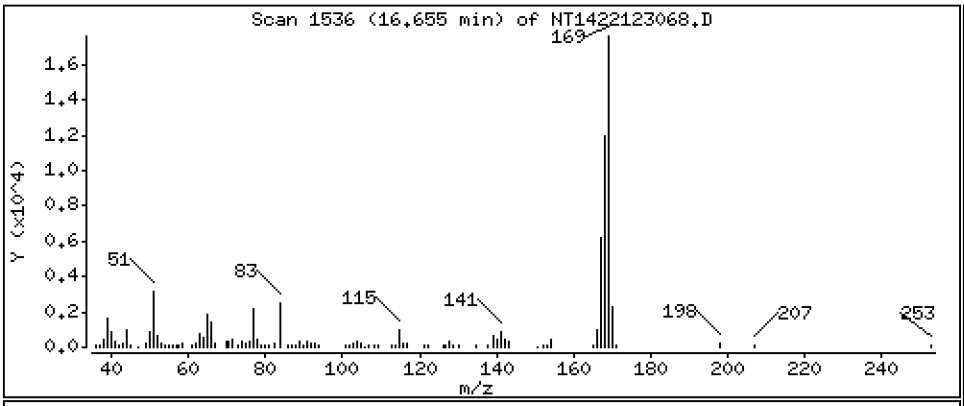
Operator: VTS

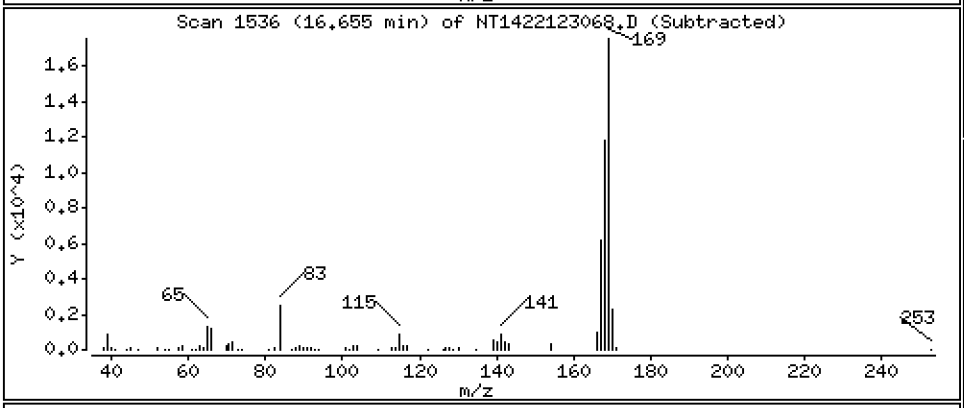
Column phase: ZB-5msi

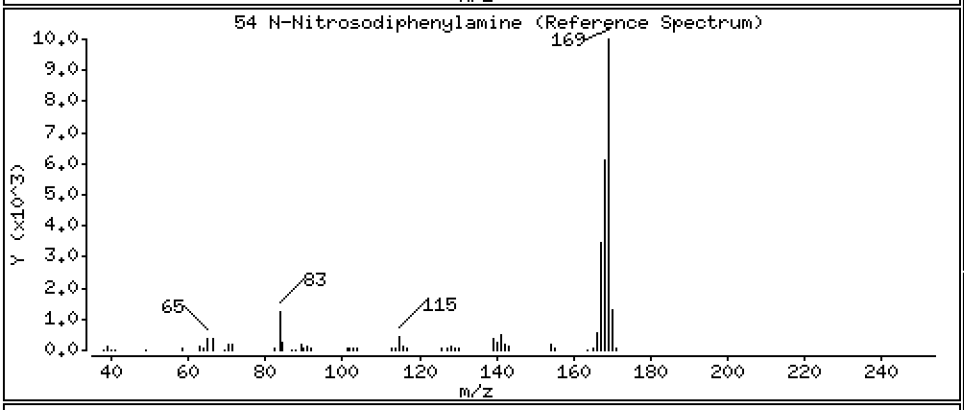
Column diameter: 0.25

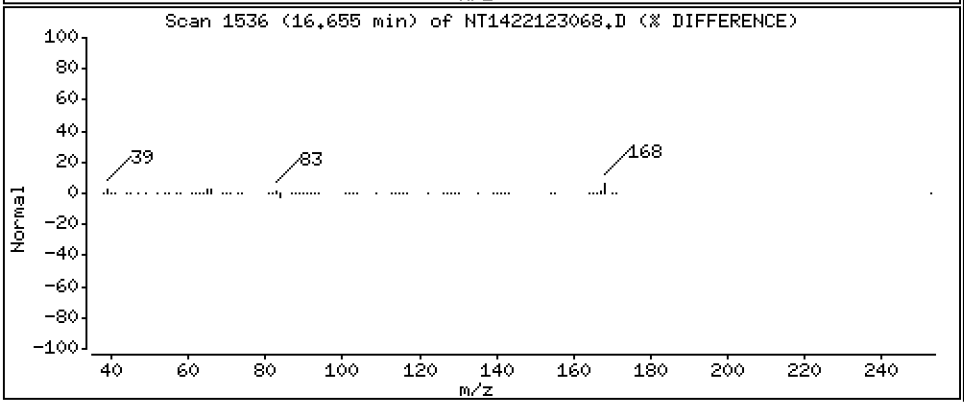
54 N-Nitrosodiphenylamine

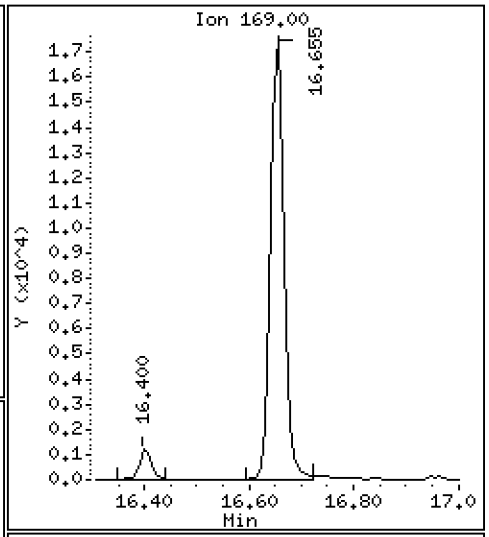
Concentration: 0.5115 ug/mL

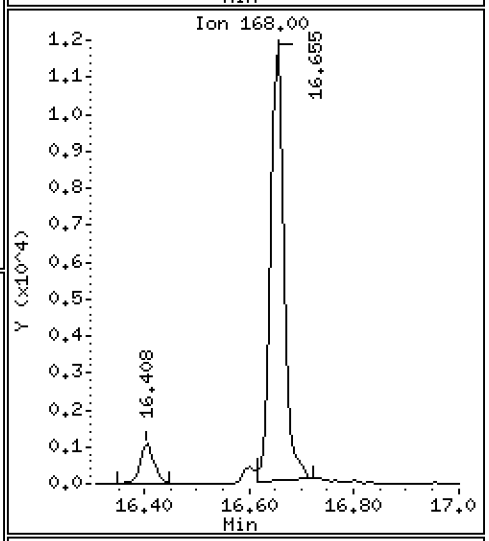


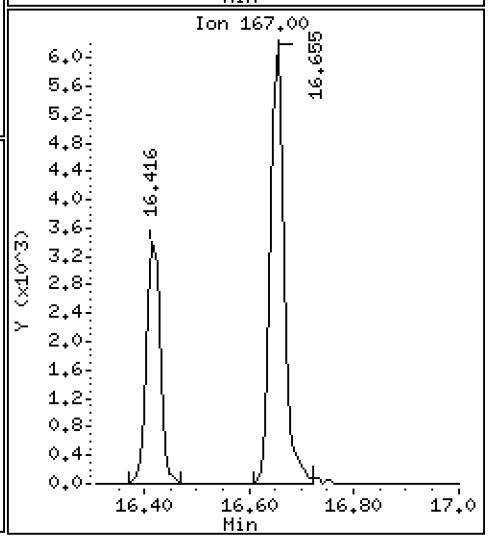












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

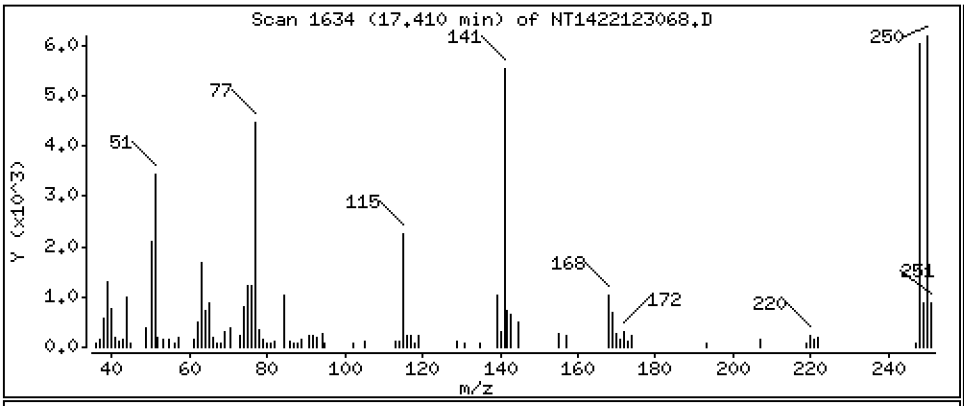
Operator: VTS

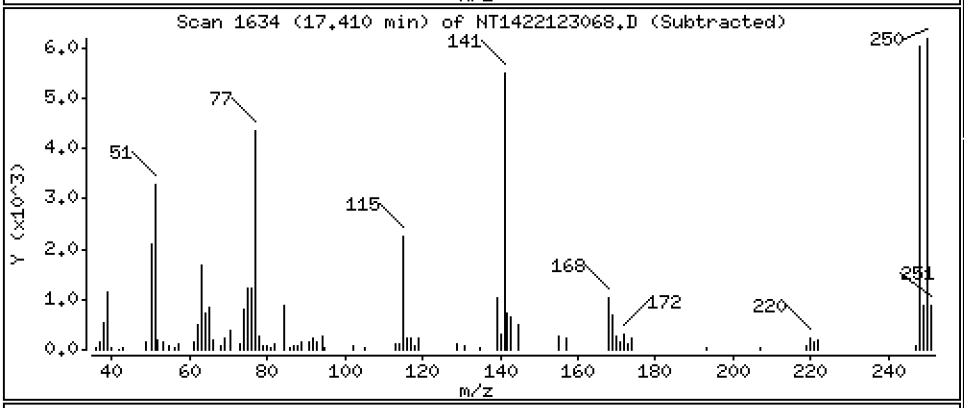
Column phase: ZB-5msi

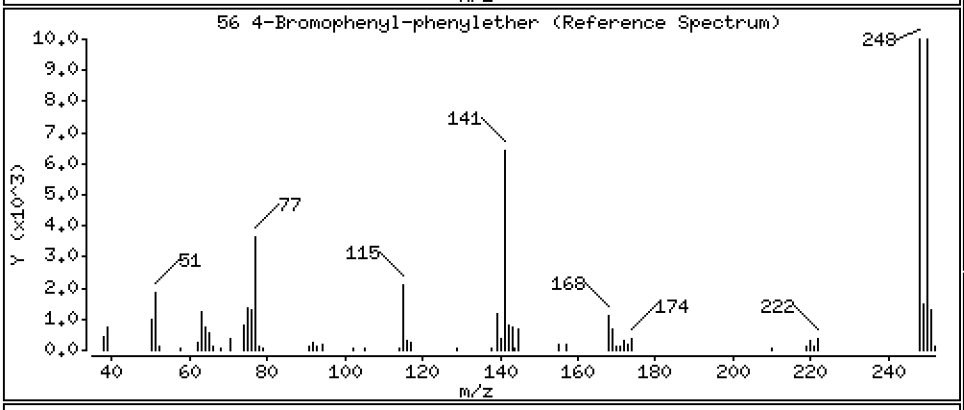
Column diameter: 0.25

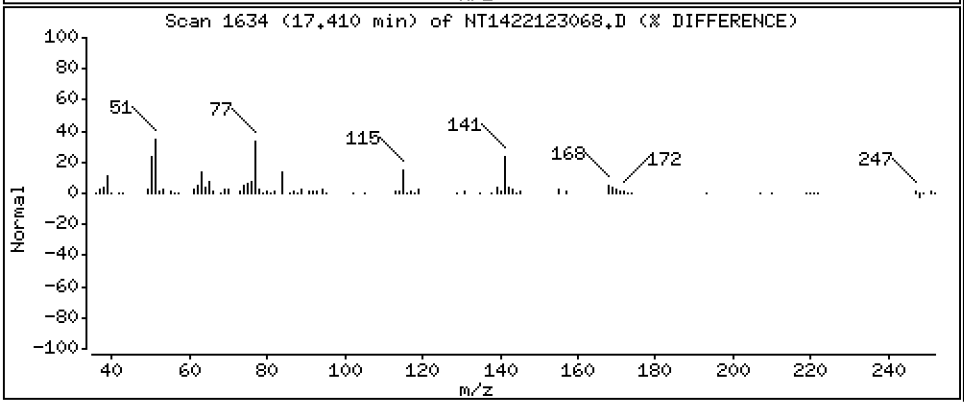
56 4-Bromophenyl-phenylether

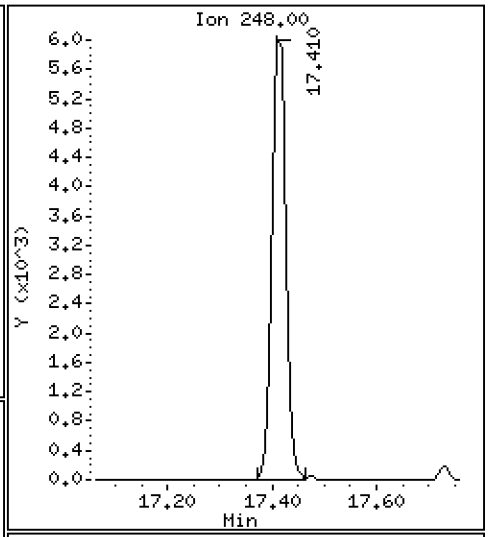
Concentration: 0.4732 ug/mL

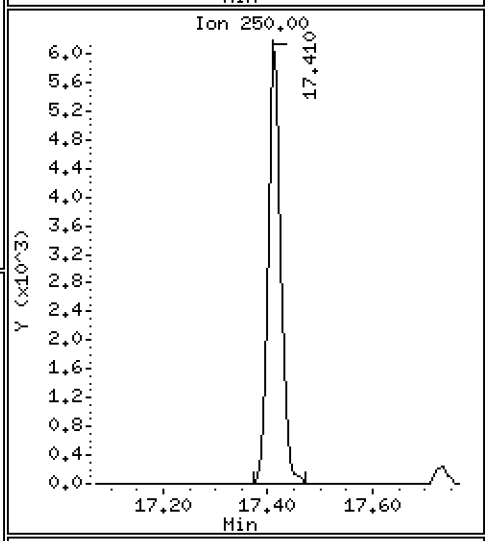


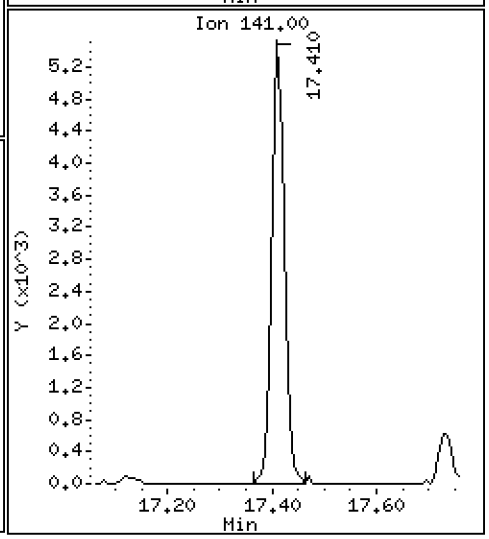












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

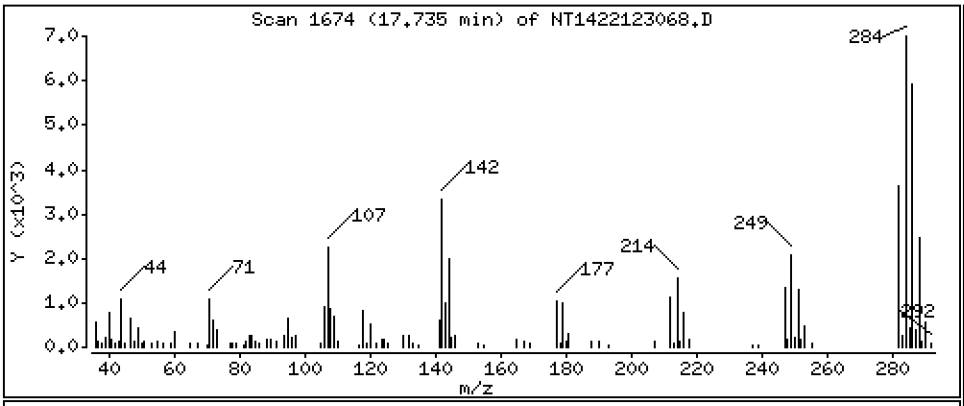
Operator: VTS

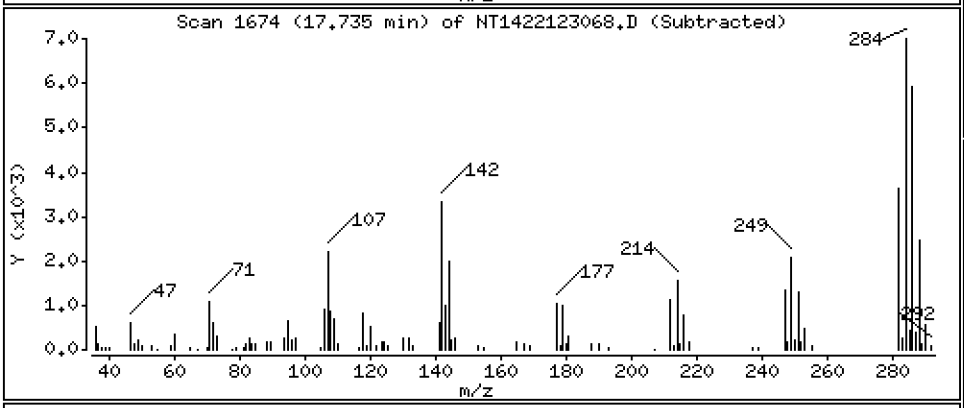
Column phase: ZB-5msi

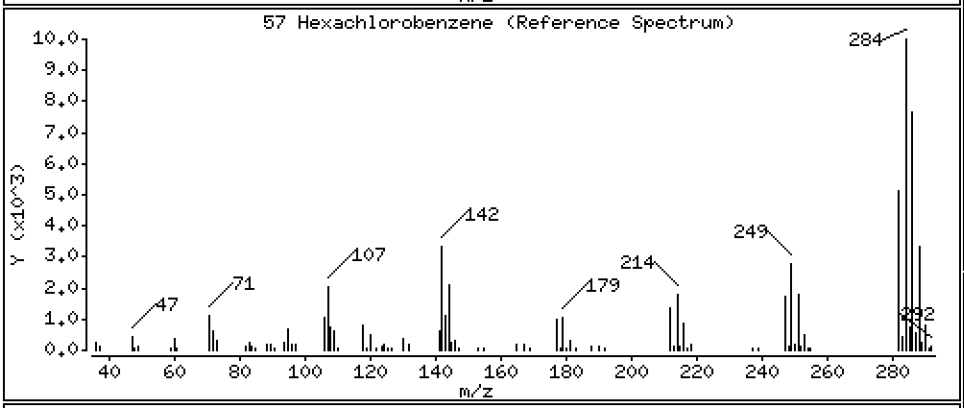
Column diameter: 0.25

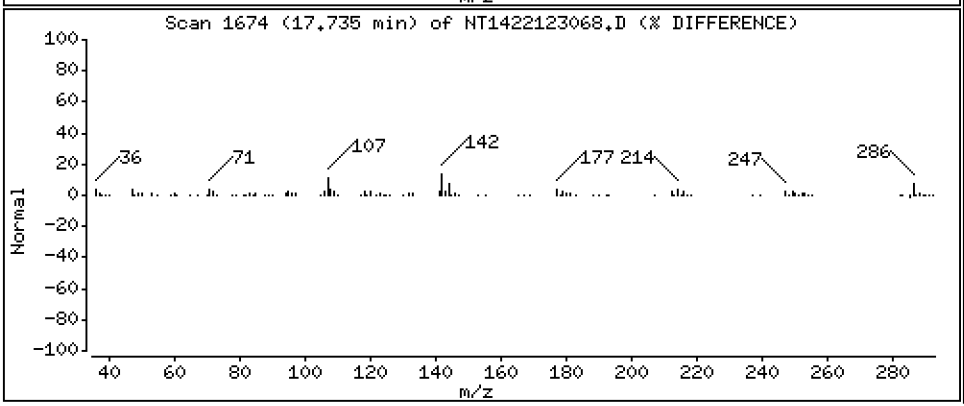
57 Hexachlorobenzene

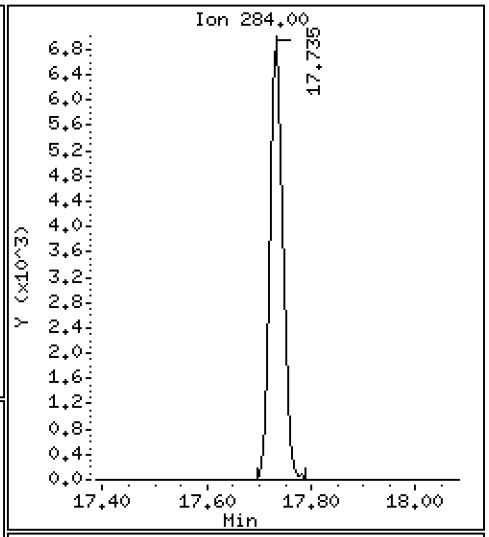
Concentration: 0.4872 ug/mL

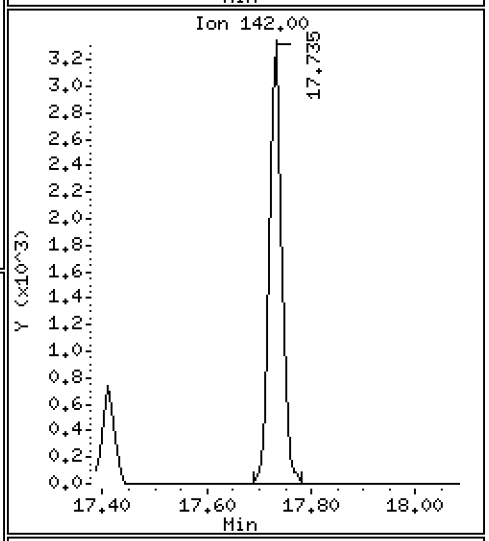


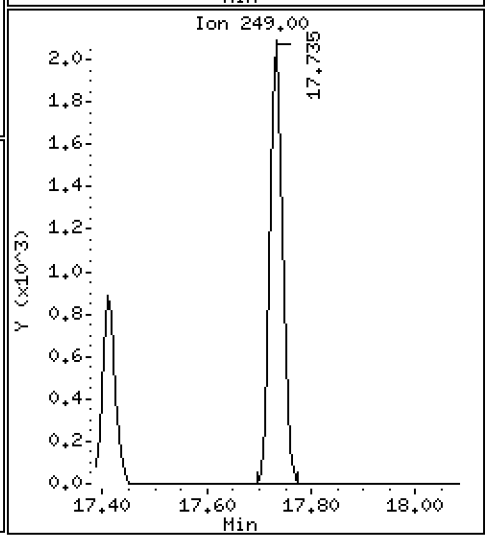












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

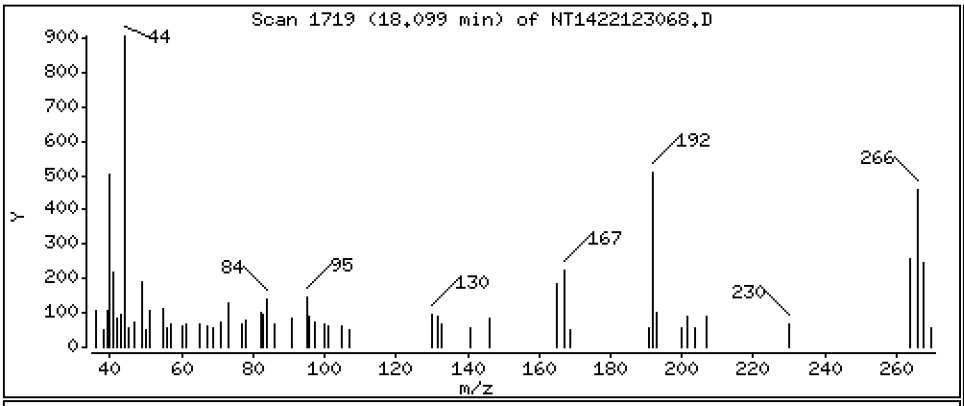
Operator: VTS

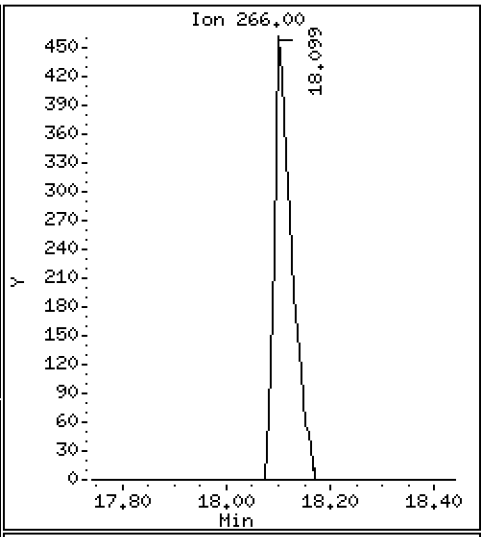
Column phase: ZB-5msi

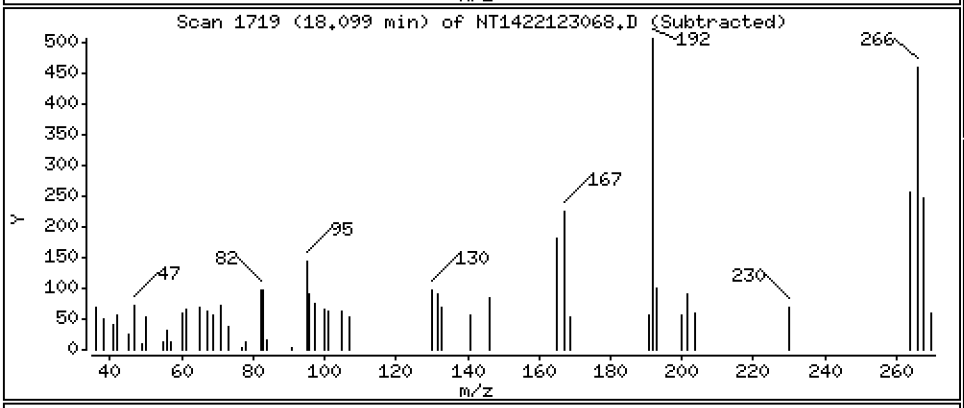
Column diameter: 0.25

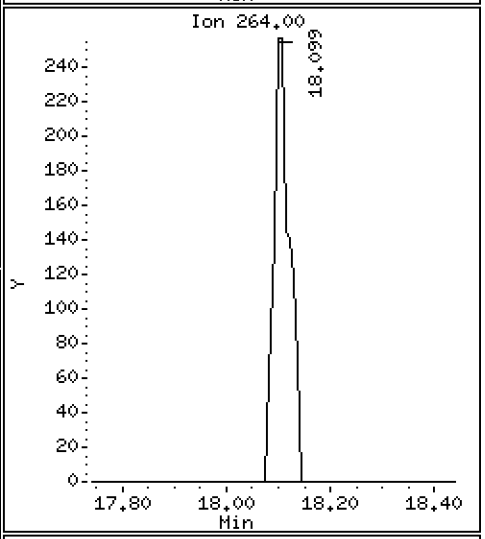
58 Pentachlorophenol

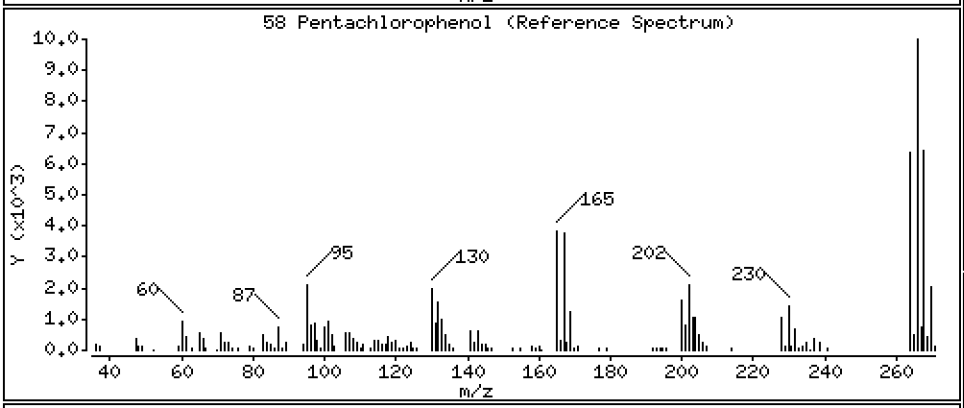
Concentration: 0.1037 ug/mL

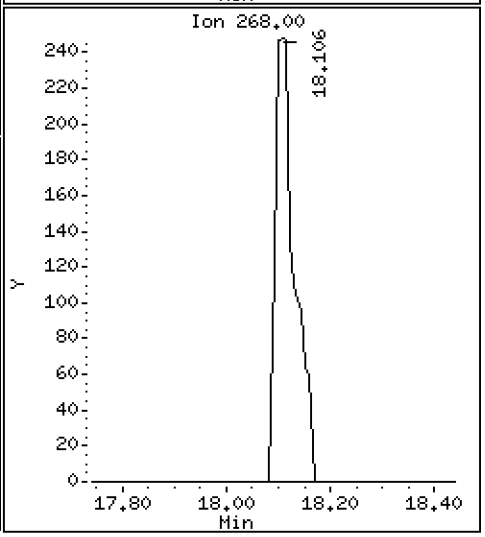


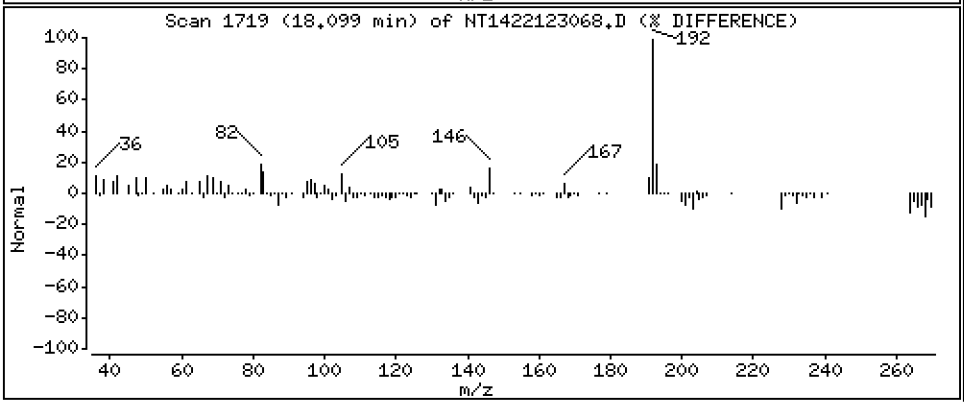












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

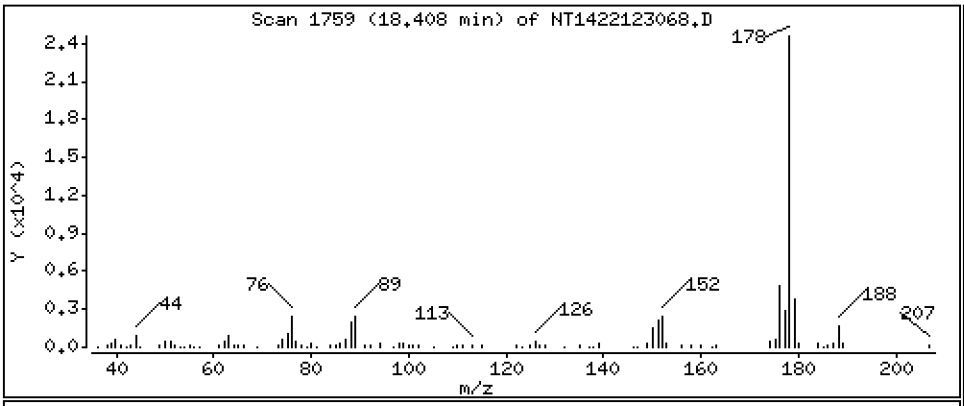
Operator: VTS

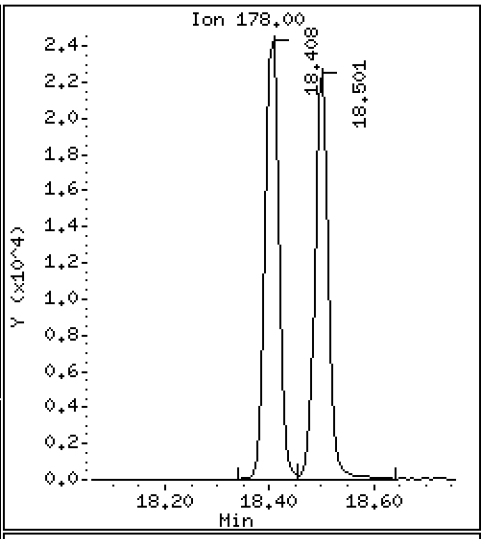
Column phase: ZB-5msi

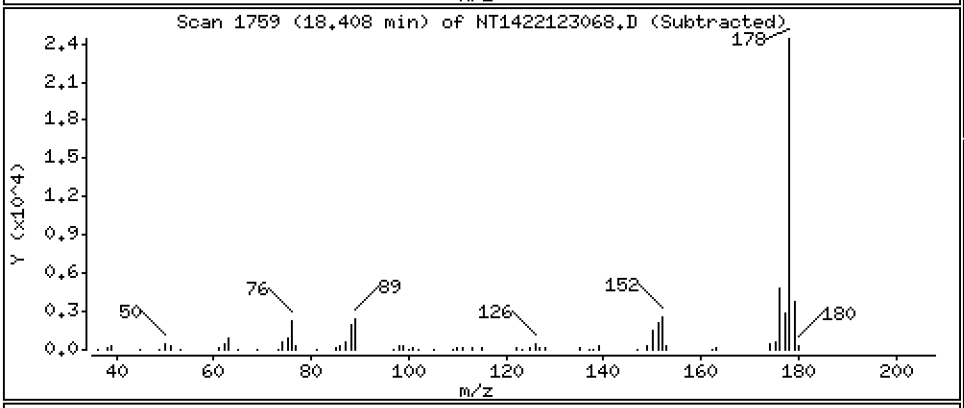
Column diameter: 0.25

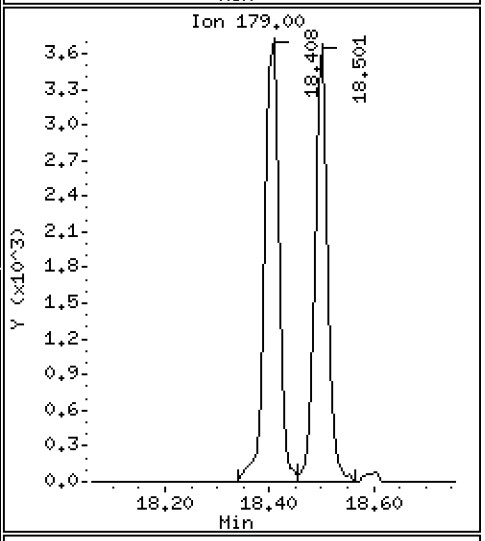
60 Phenanthrene

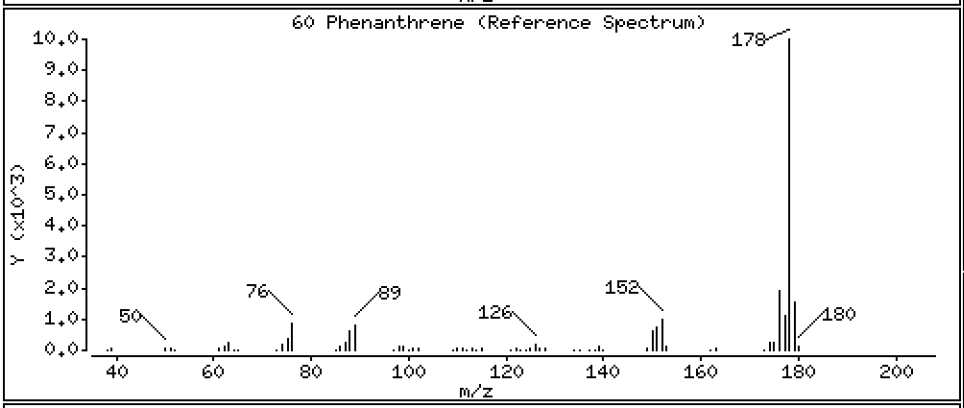
Concentration: 0.4832 ug/mL

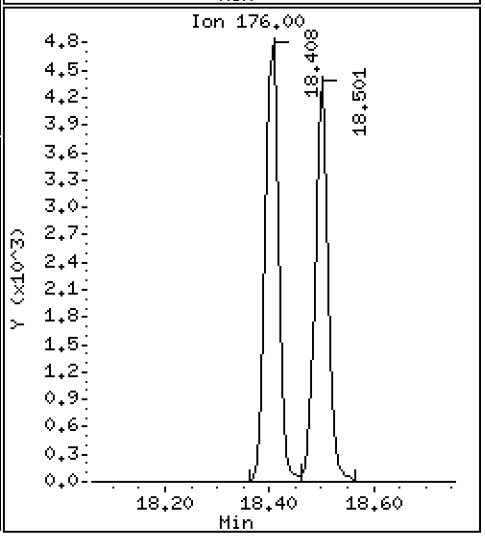


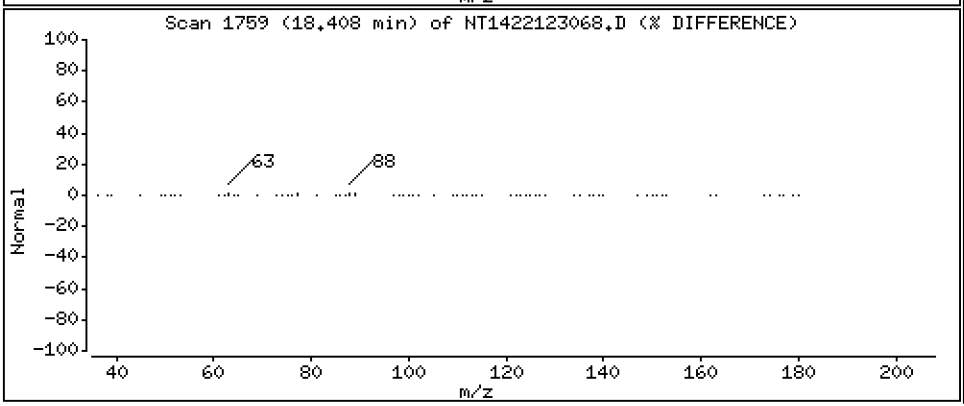












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123068.D

Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

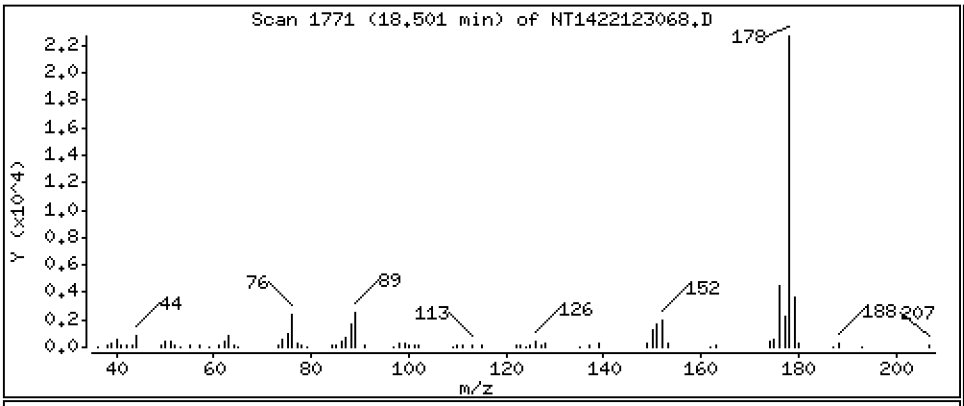
Operator: VTS

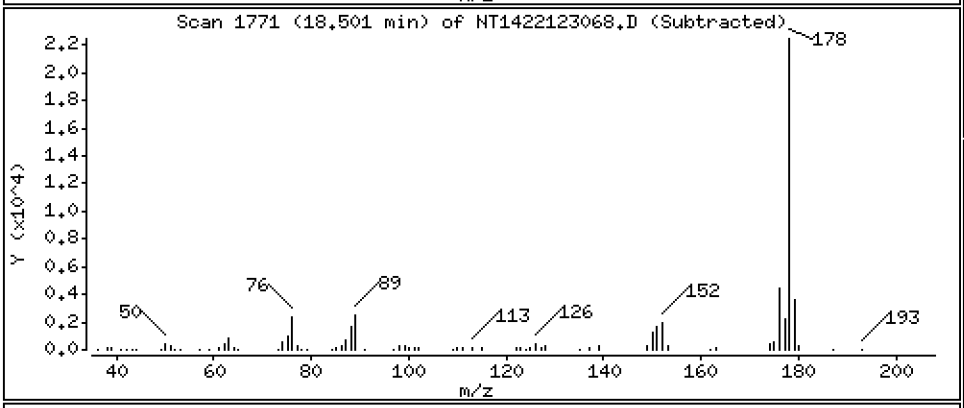
Column phase: ZB-5msi

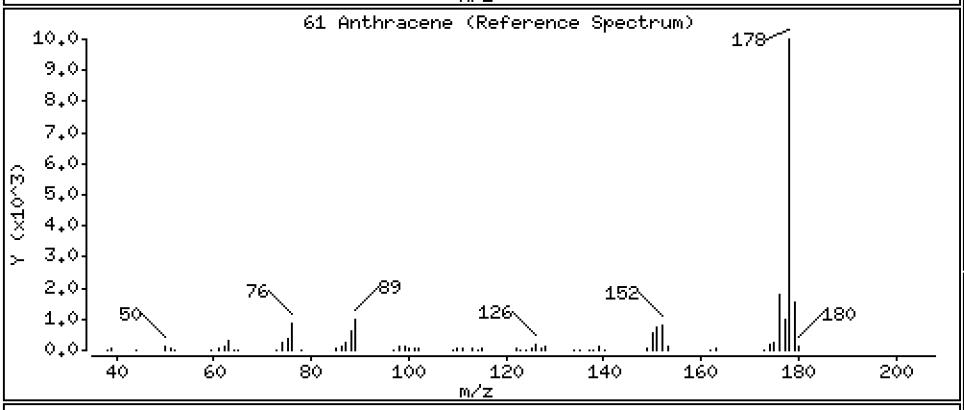
Column diameter: 0.25

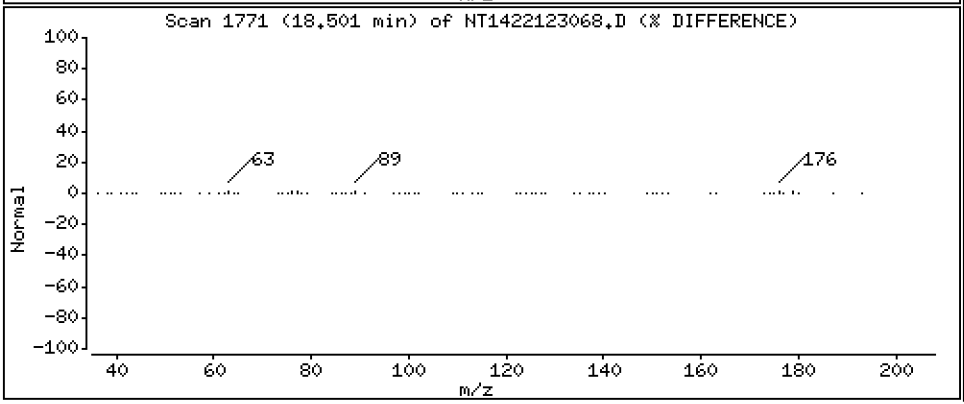
61 Anthracene

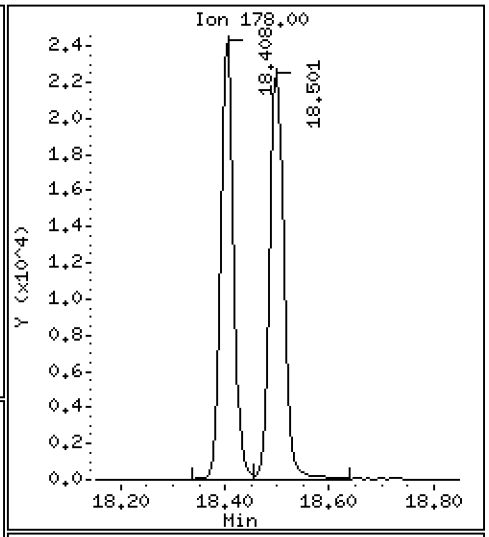
Concentration: 0.4848 ug/mL

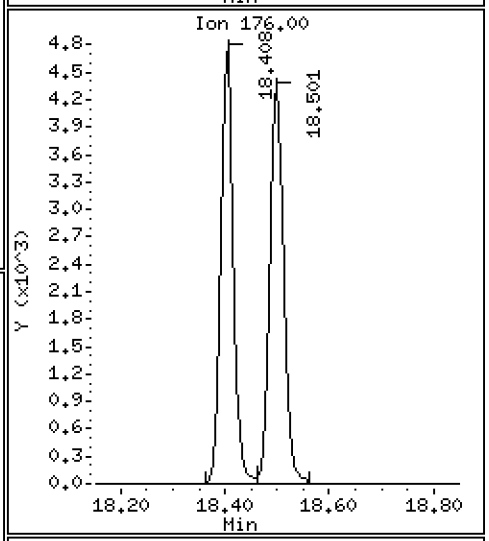


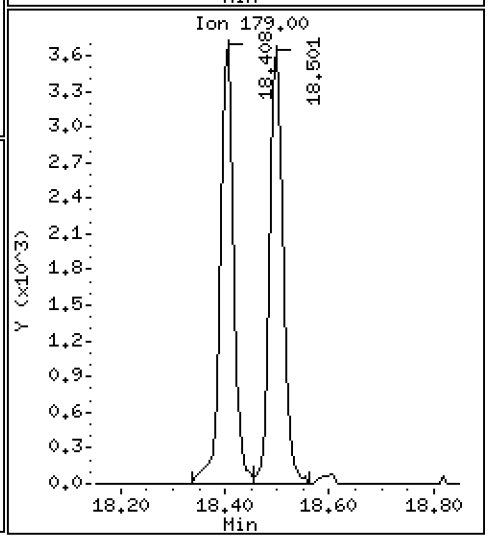












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

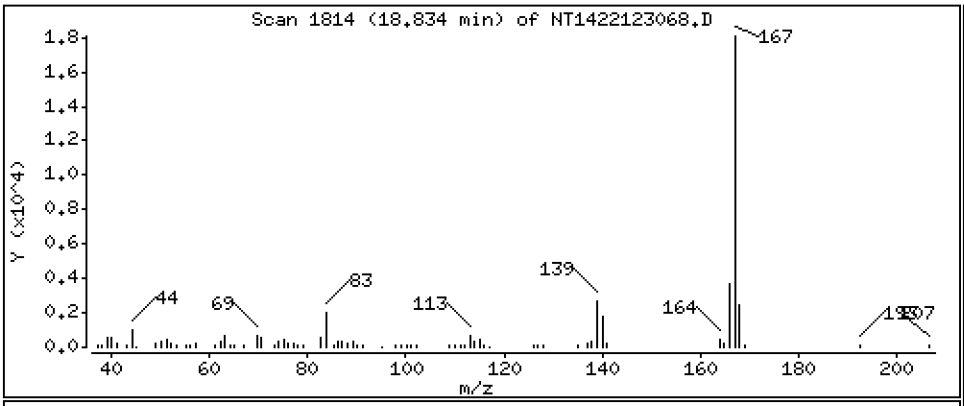
Operator: VTS

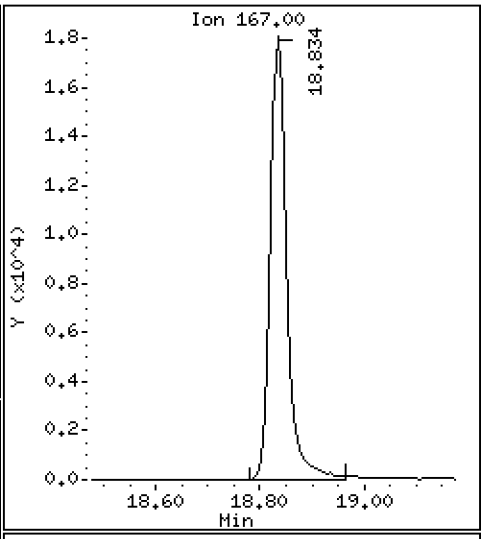
Column phase: ZB-5msi

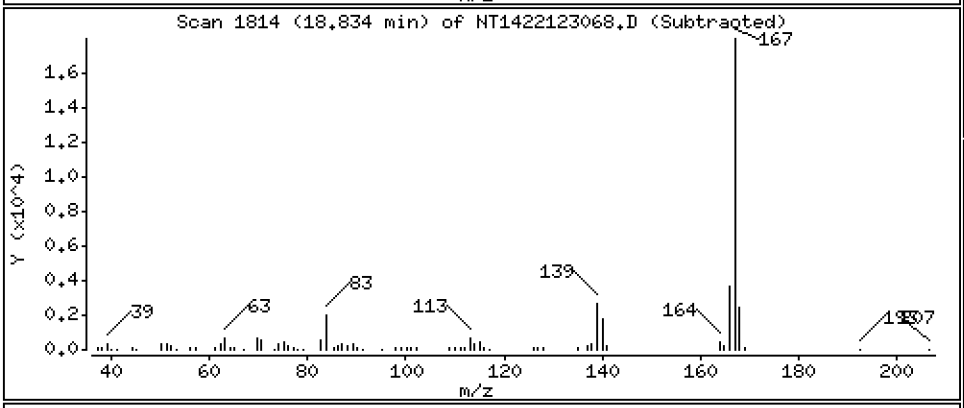
Column diameter: 0.25

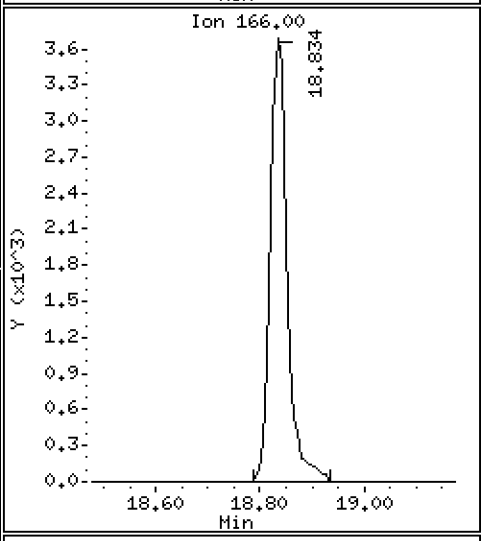
62 Carbazole

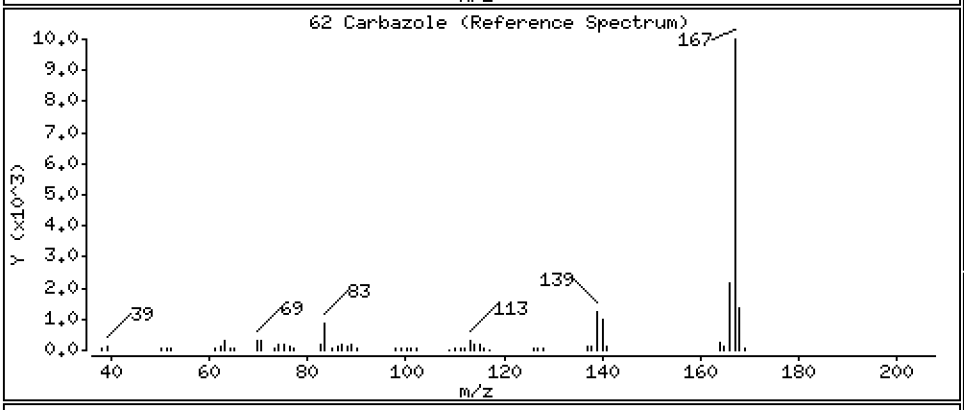
Concentration: 0.4681 ug/mL

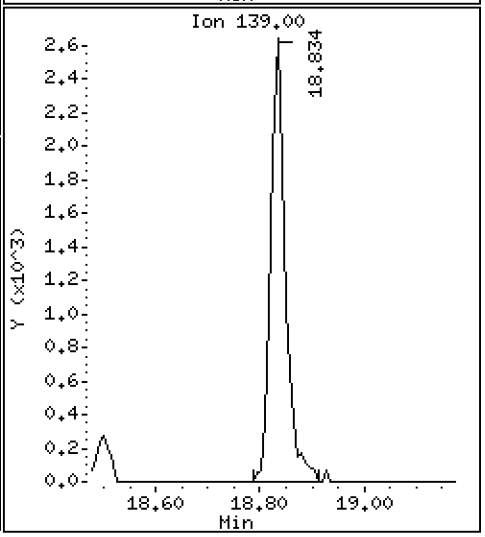


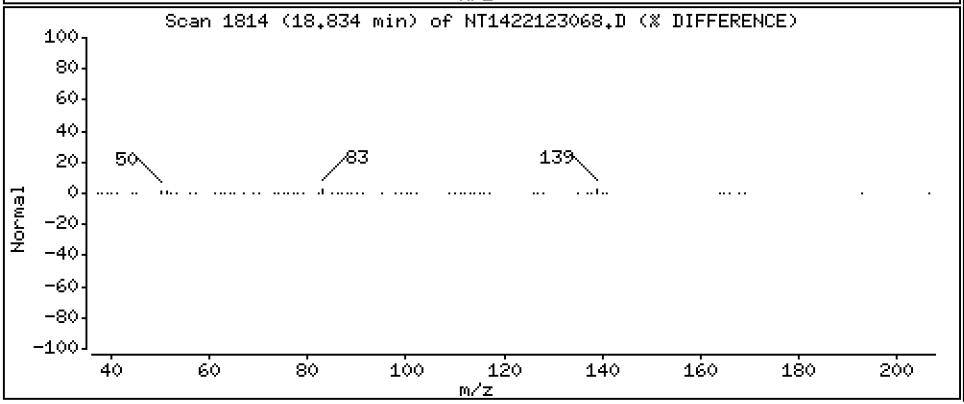












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

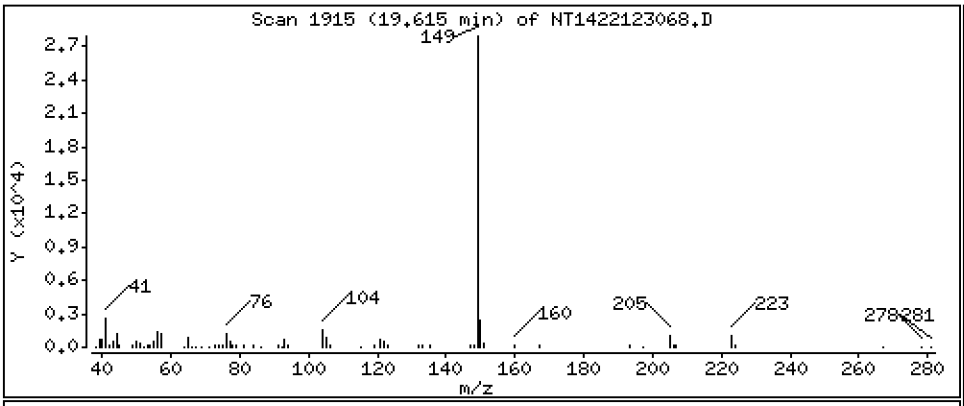
Operator: VTS

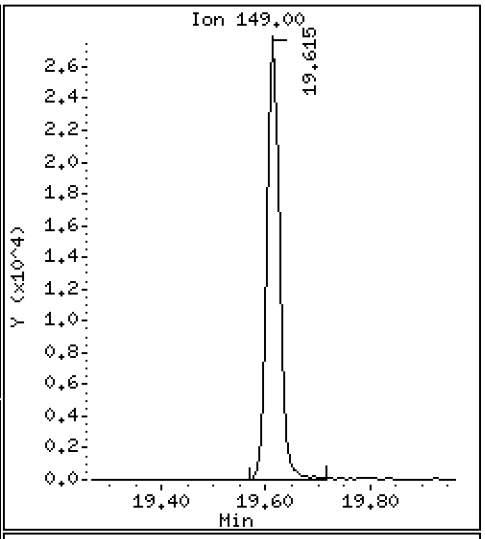
Column phase: ZB-5msi

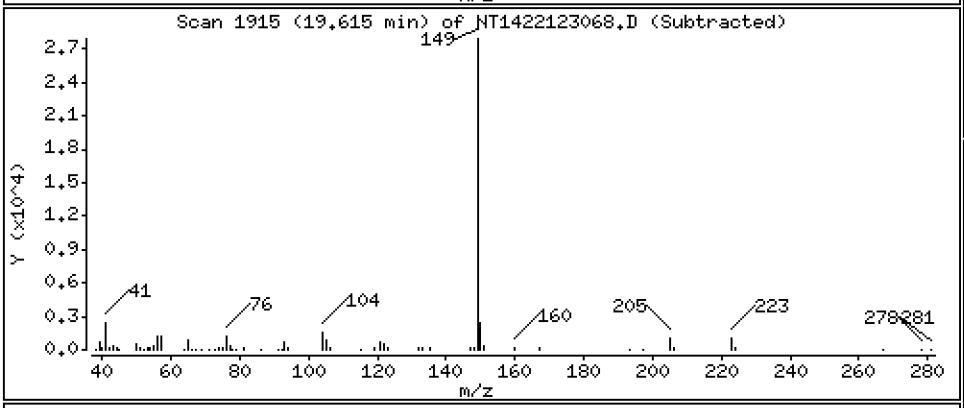
Column diameter: 0.25

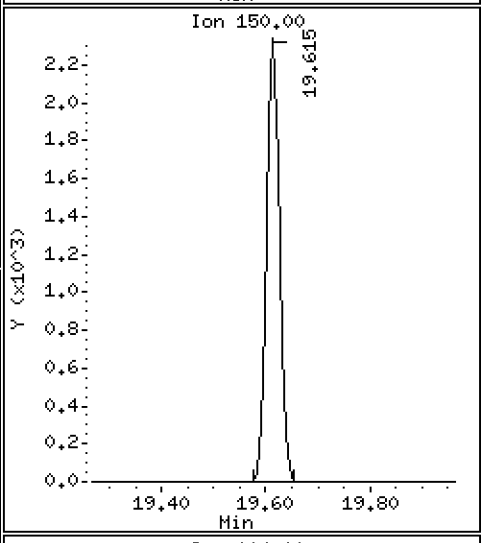
63 Di-n-butylphthalate

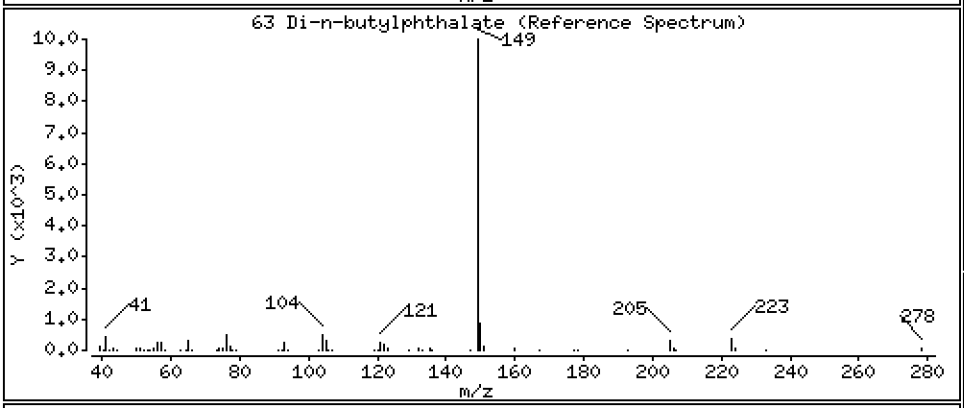
Concentration: 0.4789 ug/mL

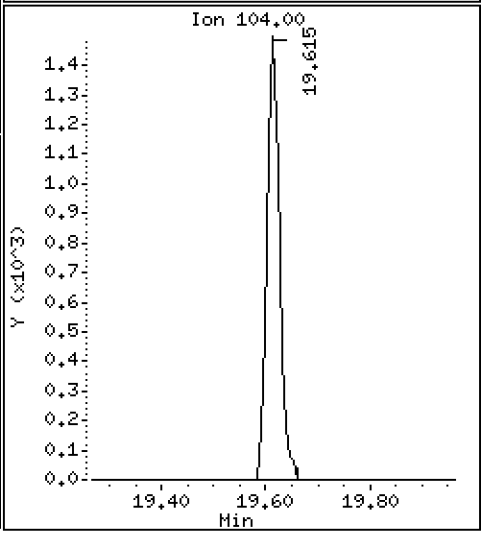


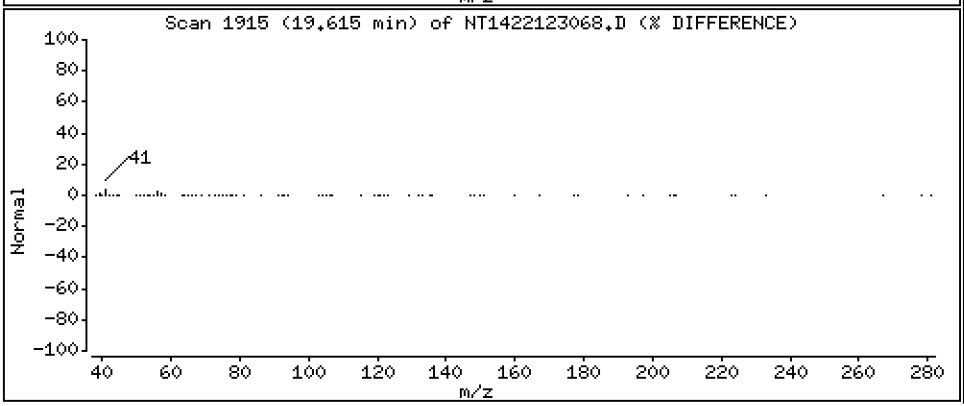












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

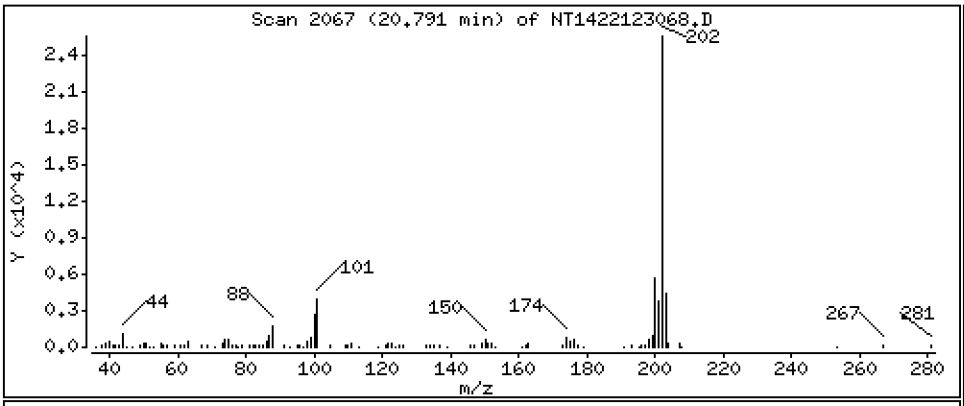
Operator: VTS

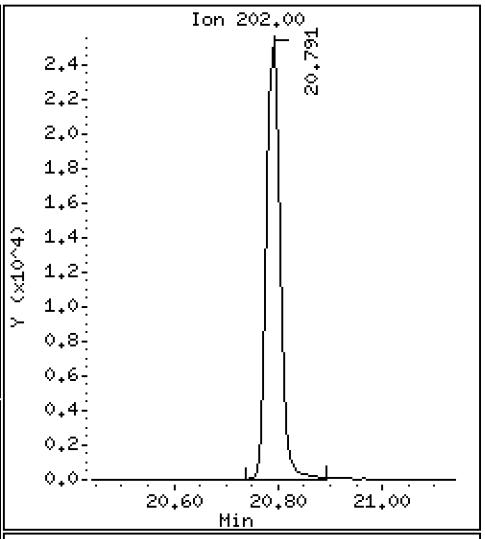
Column phase: ZB-5msi

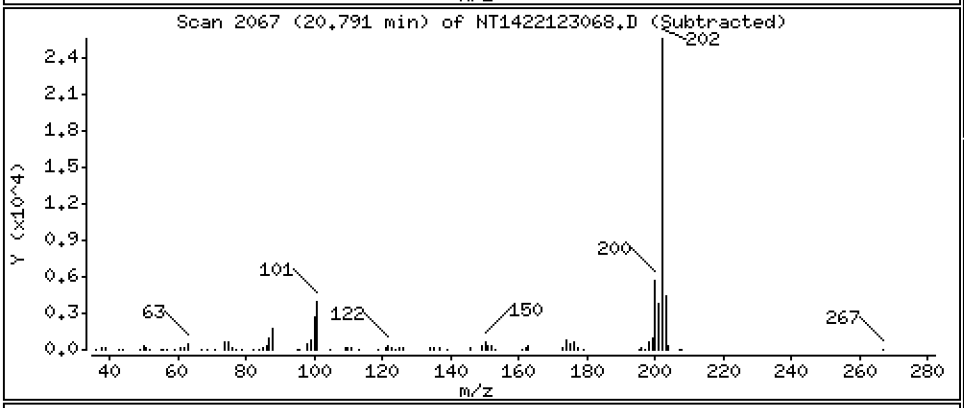
Column diameter: 0.25

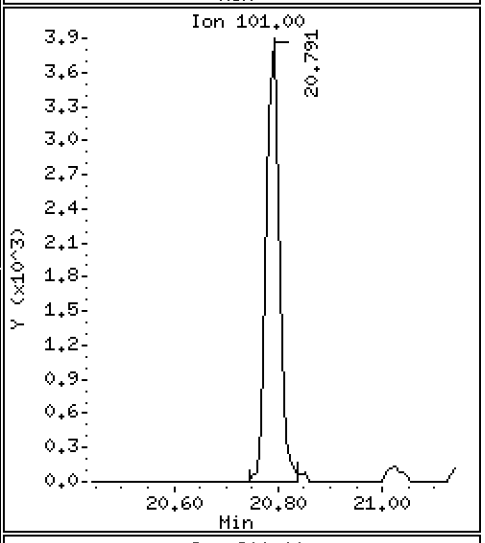
64 Fluoranthene

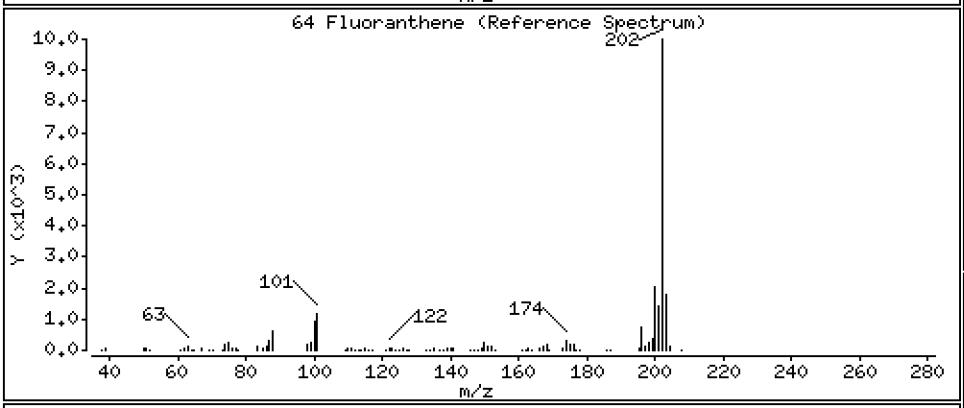
Concentration: 0.4720 ug/mL

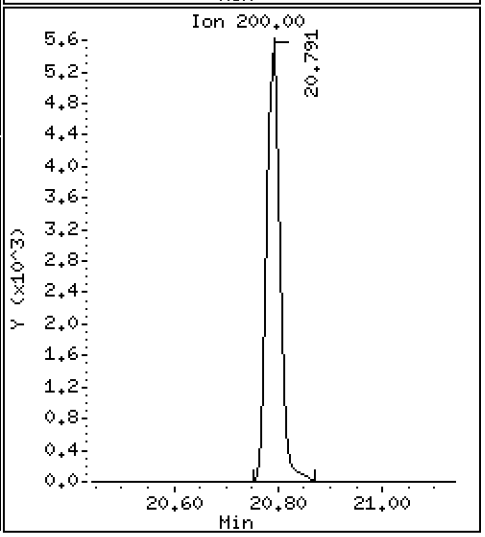


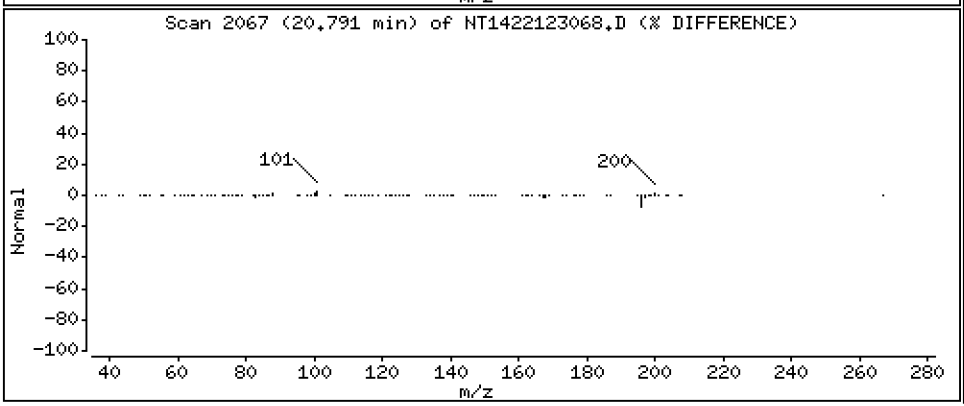












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

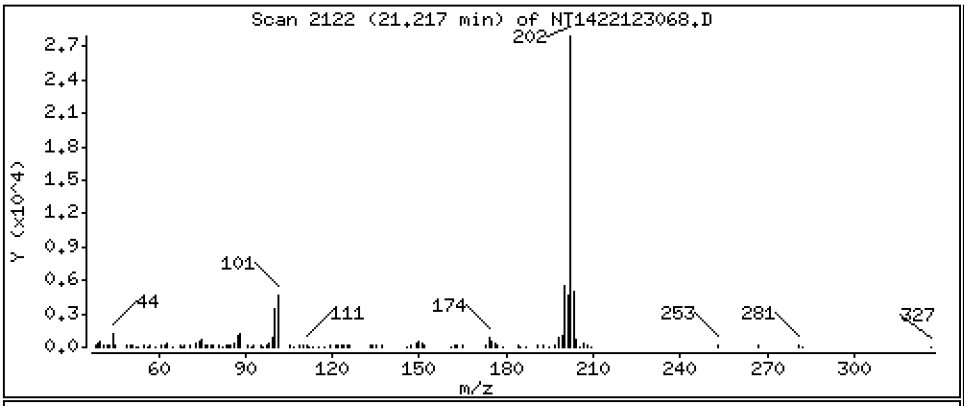
Operator: VTS

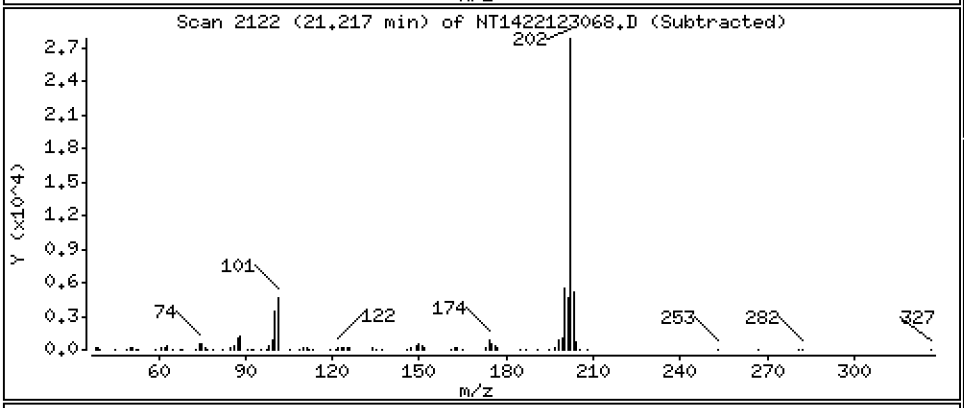
Column phase: ZB-5msi

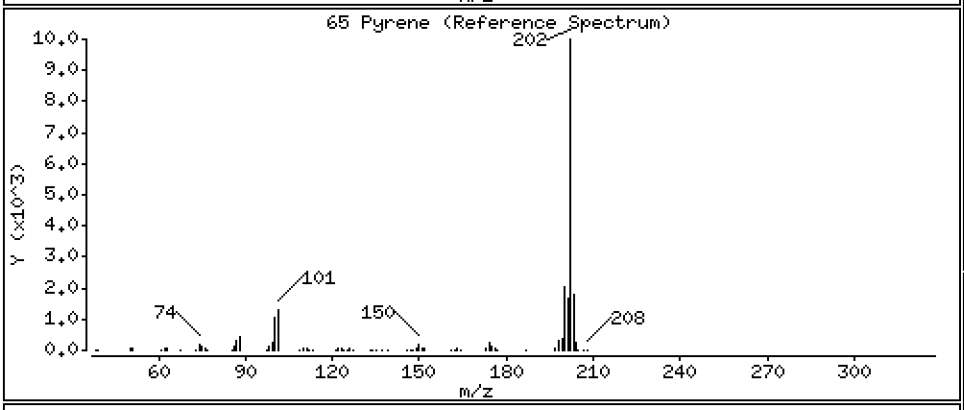
Column diameter: 0.25

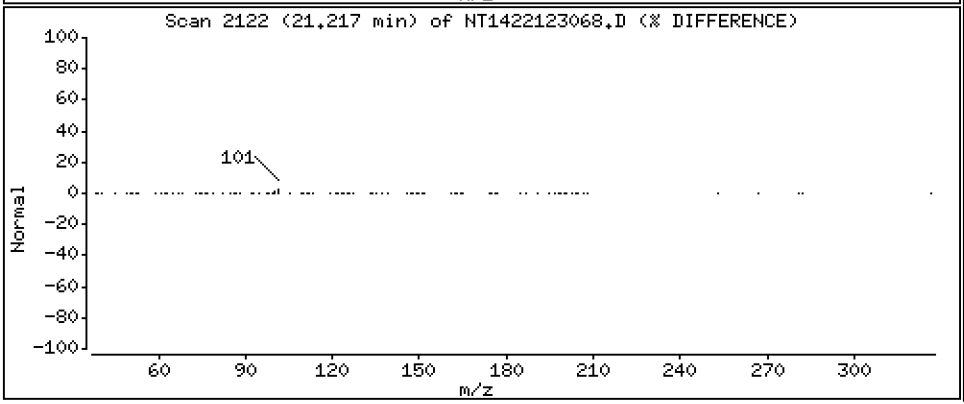
65 Pyrene

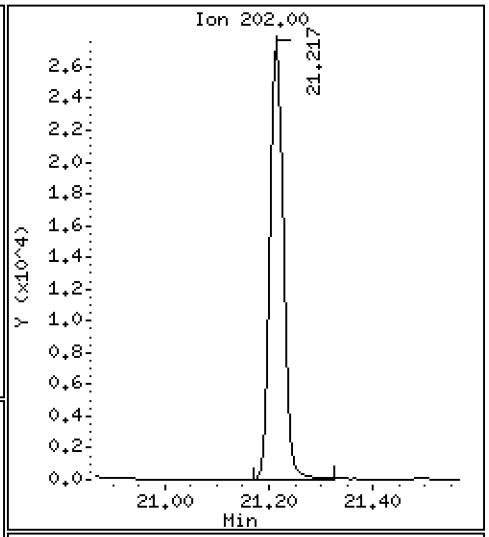
Concentration: 0.4811 ug/mL

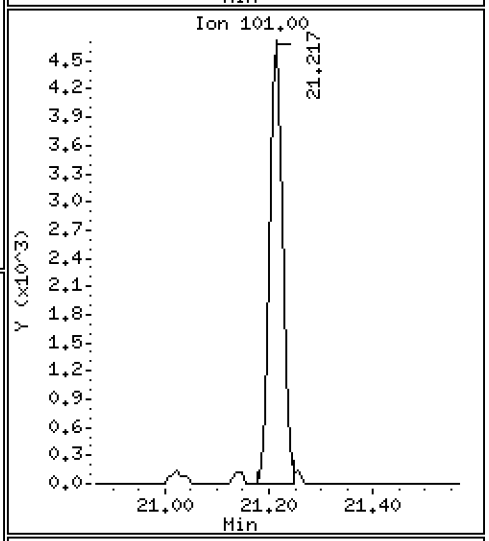


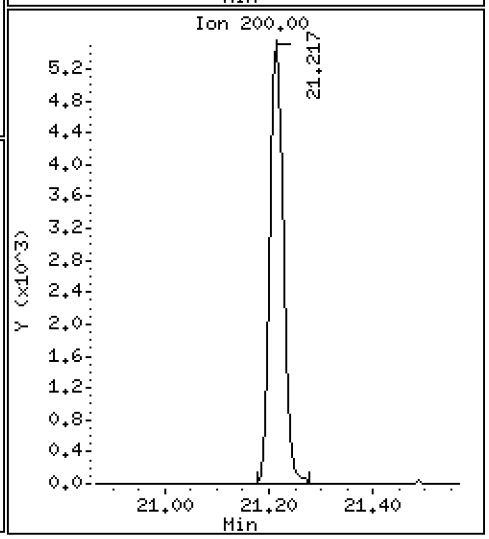












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

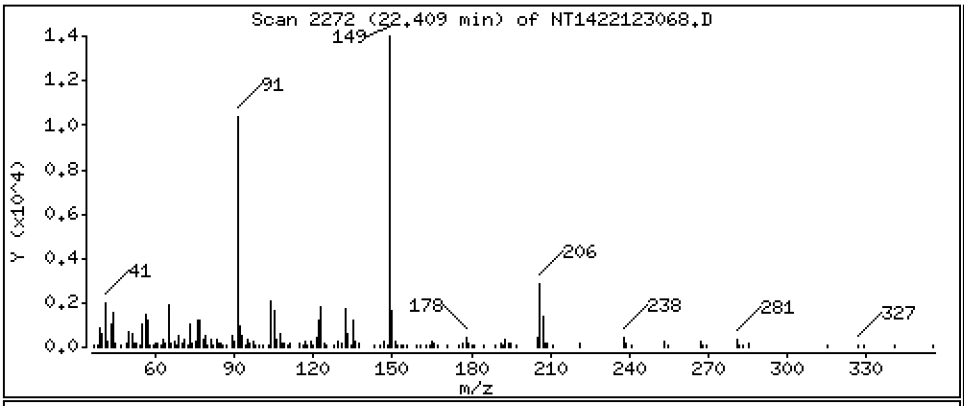
Operator: VTS

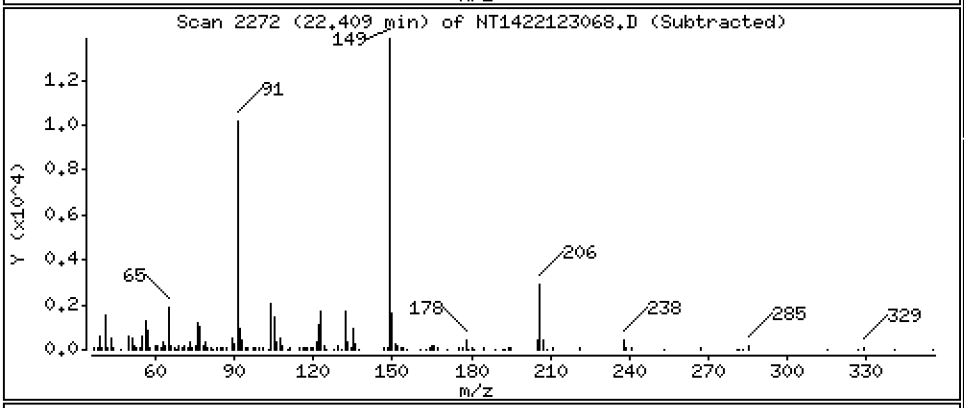
Column phase: ZB-5msi

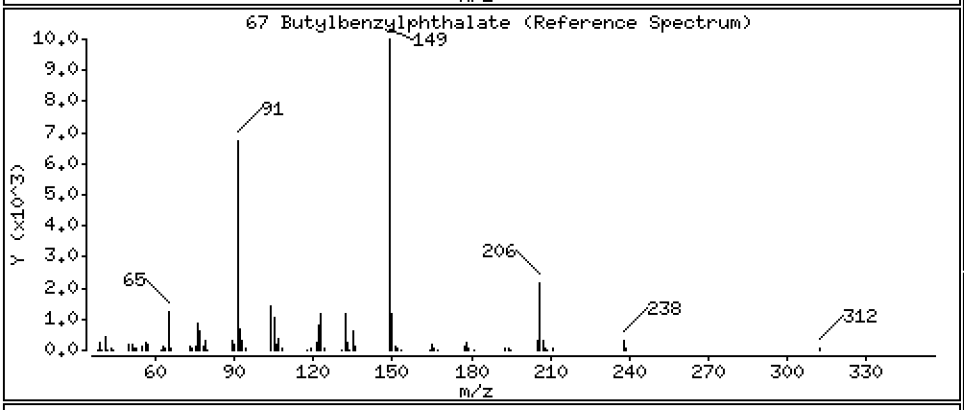
Column diameter: 0.25

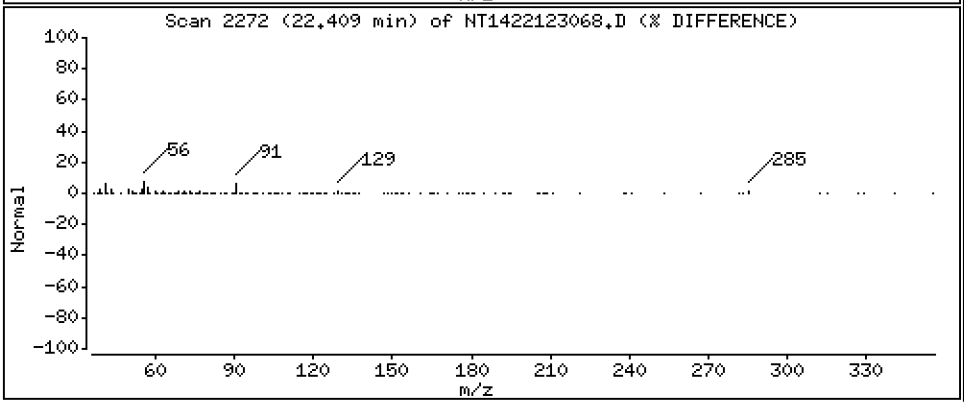
67 Butylbenzylphthalate

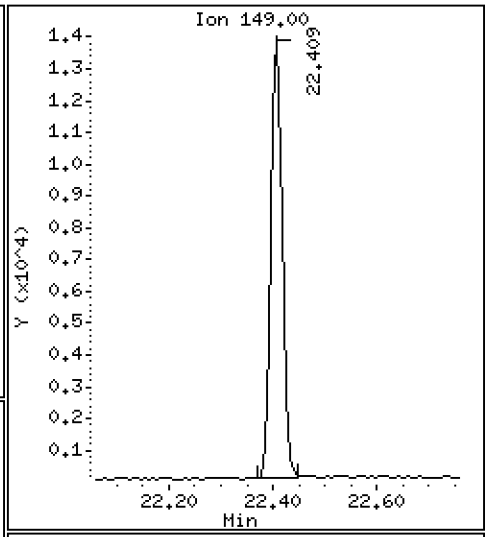
Concentration: 0.5261 ug/mL

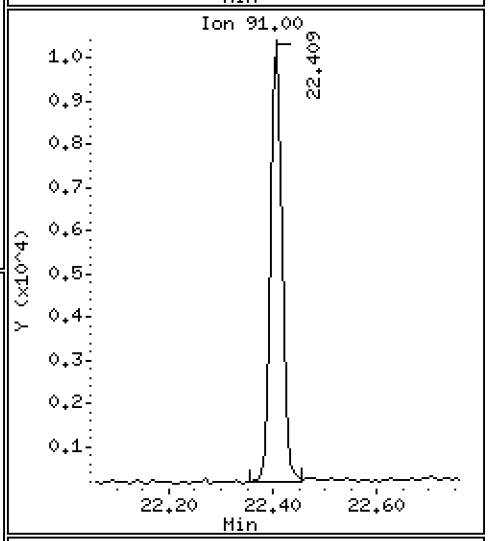


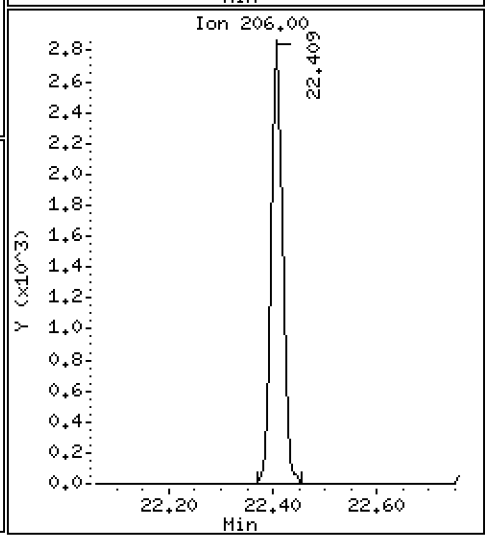












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

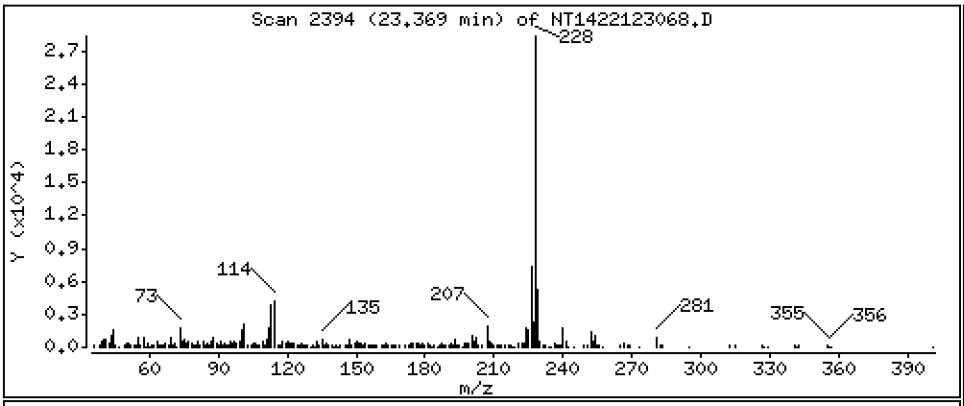
Operator: VTS

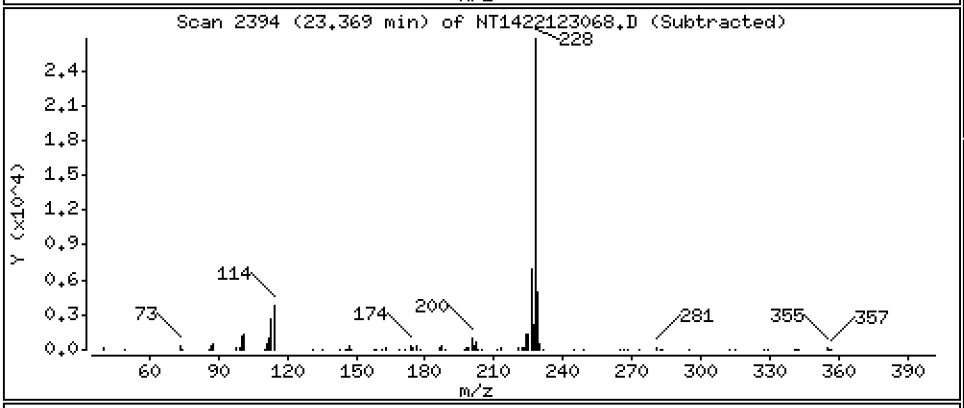
Column phase: ZB-5msi

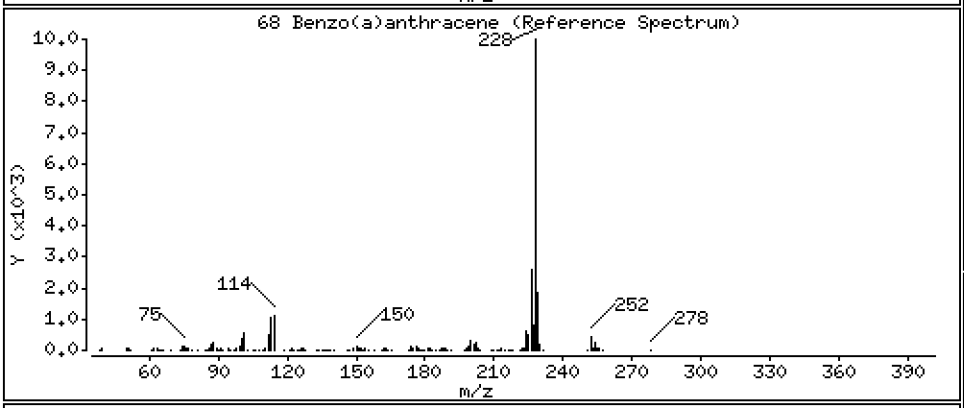
Column diameter: 0.25

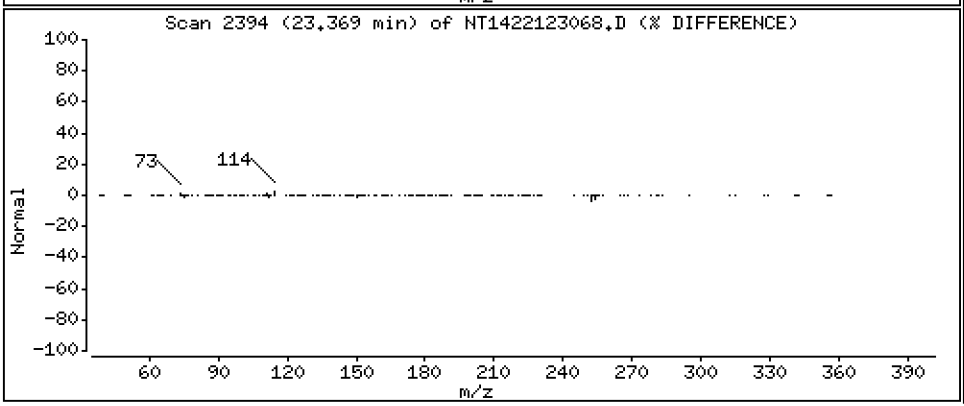
68 Benzo(a)anthracene

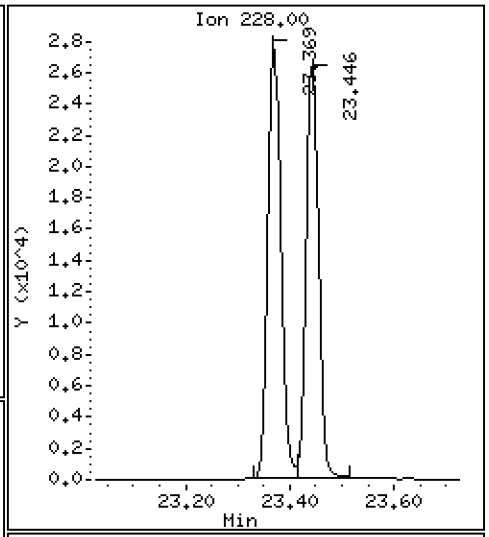
Concentration: 0.5206 ug/mL

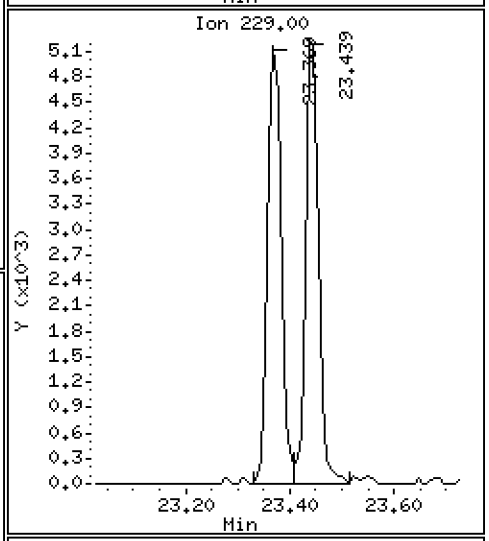


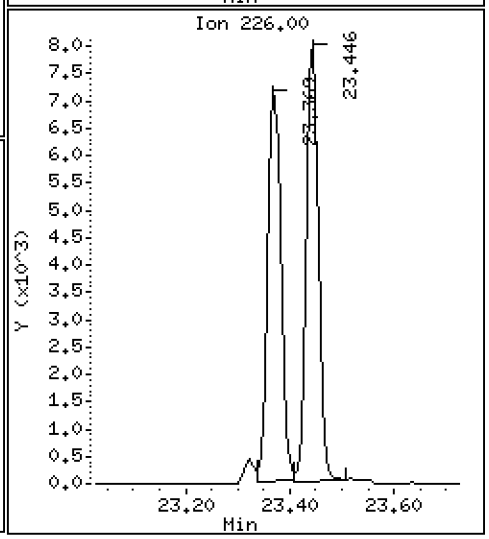












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

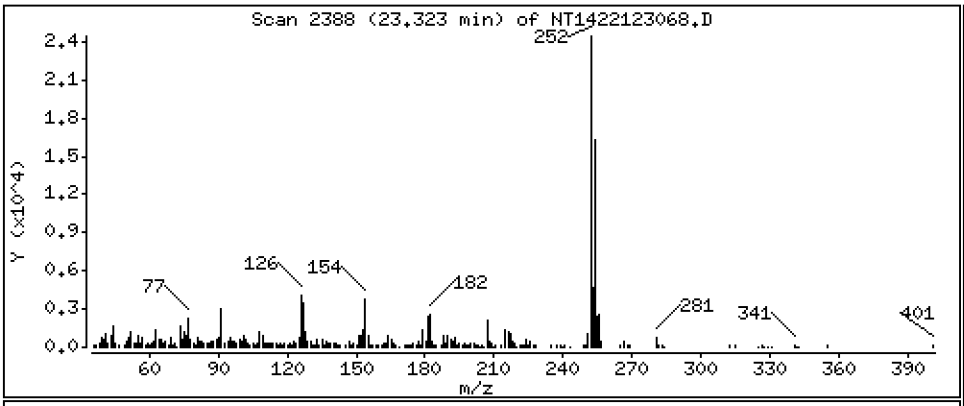
Operator: VTS

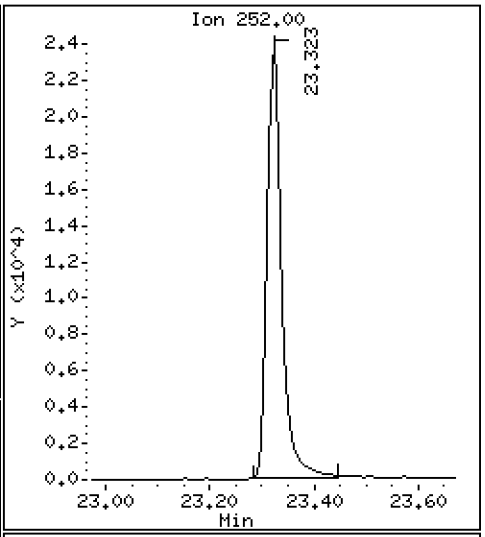
Column phase: ZB-5msi

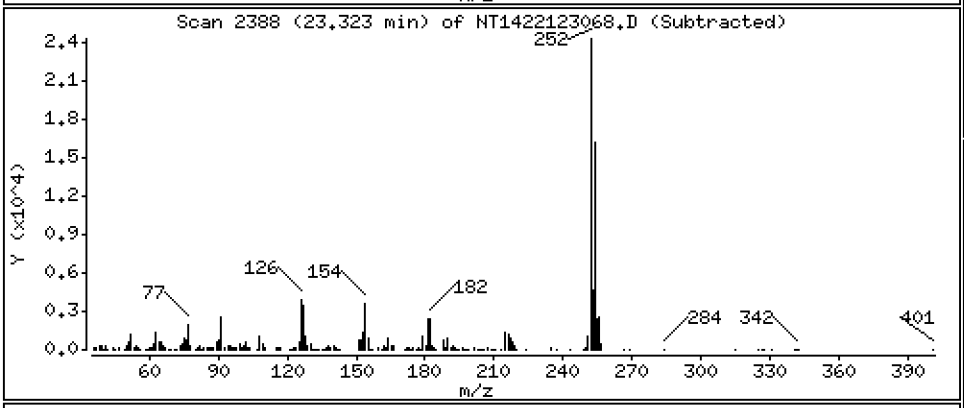
Column diameter: 0.25

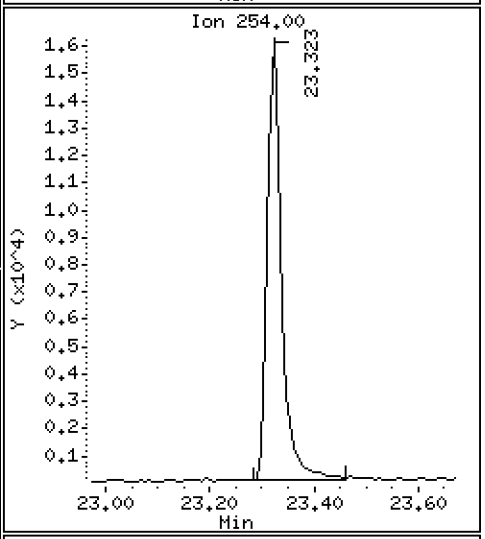
70 3,3'-Dichlorobenzidine

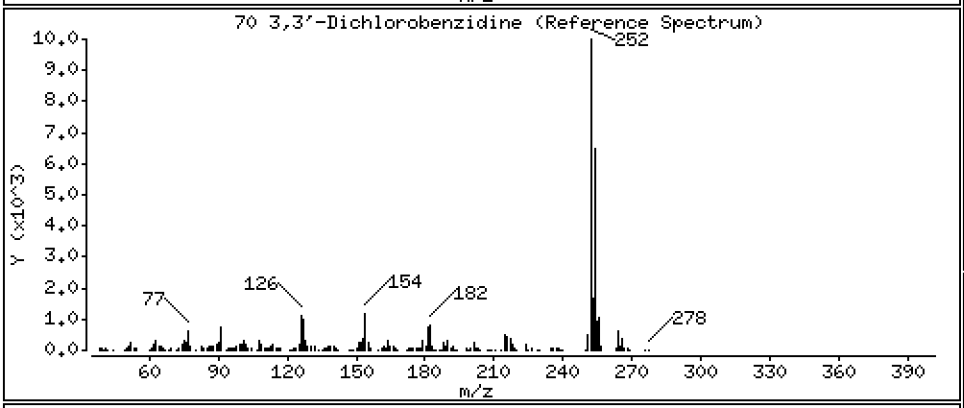
Concentration: 1.641 ug/mL

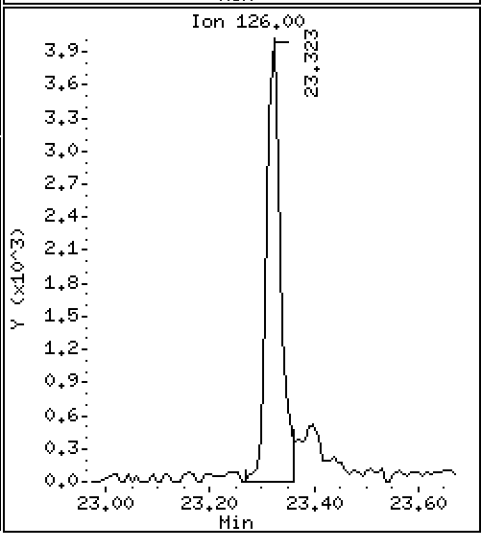


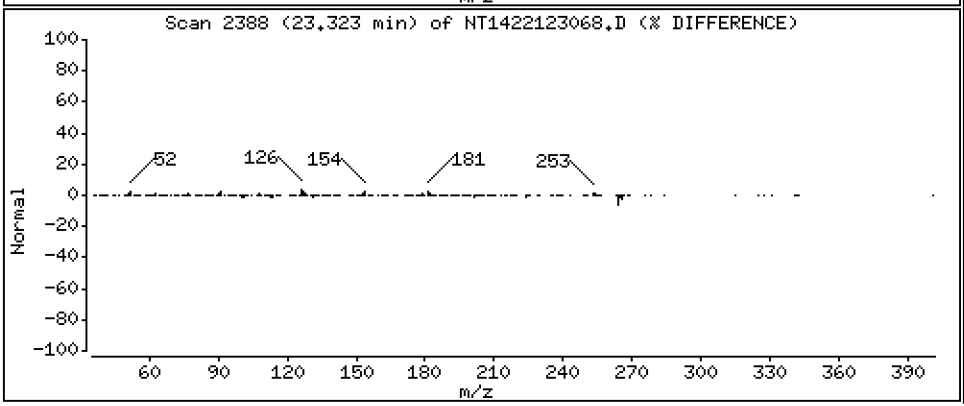












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

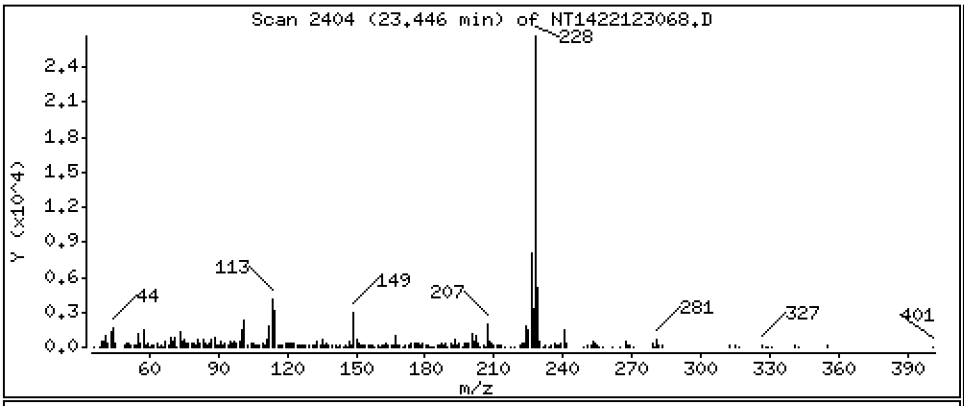
Operator: VTS

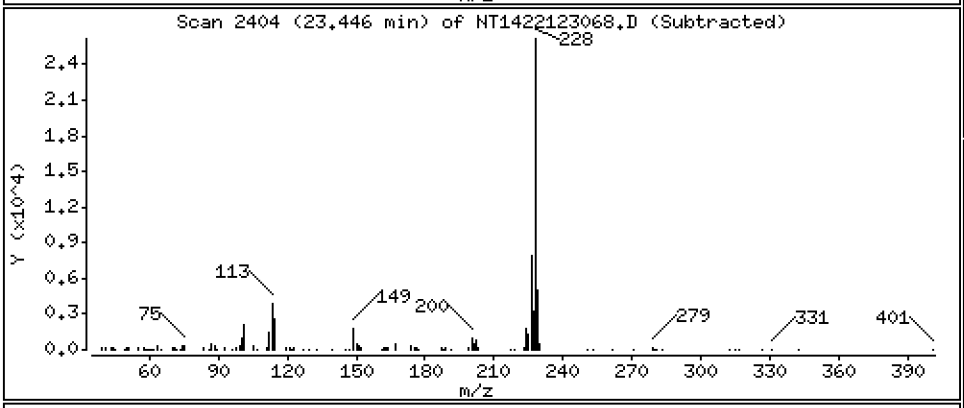
Column phase: ZB-5msi

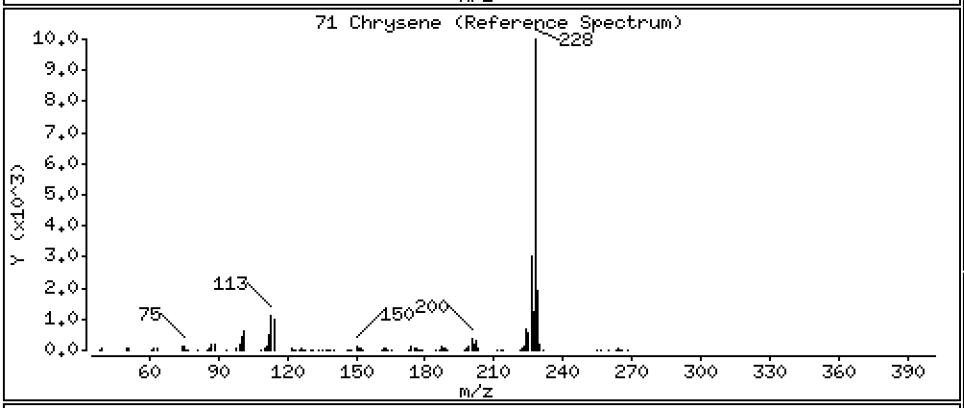
Column diameter: 0.25

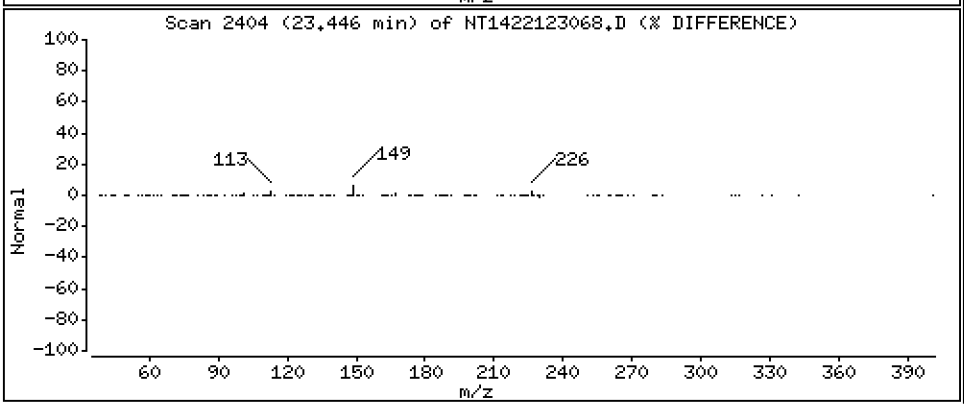
71 Chrysene

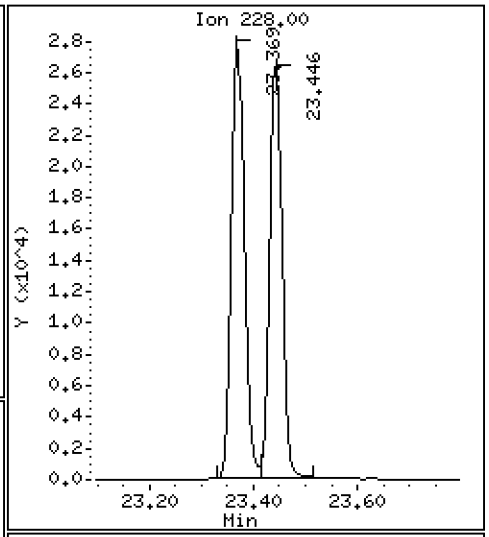
Concentration: 0.5001 ug/mL

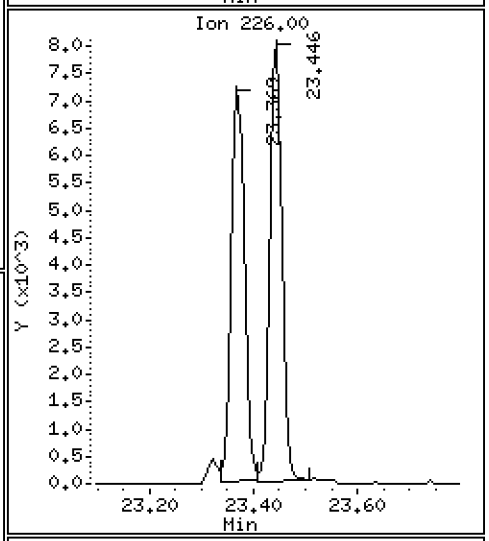


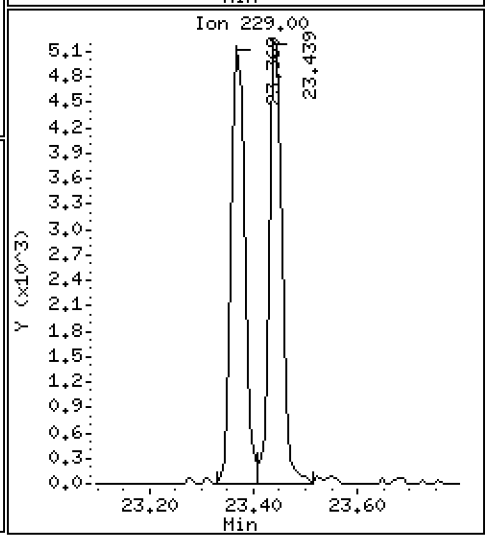












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

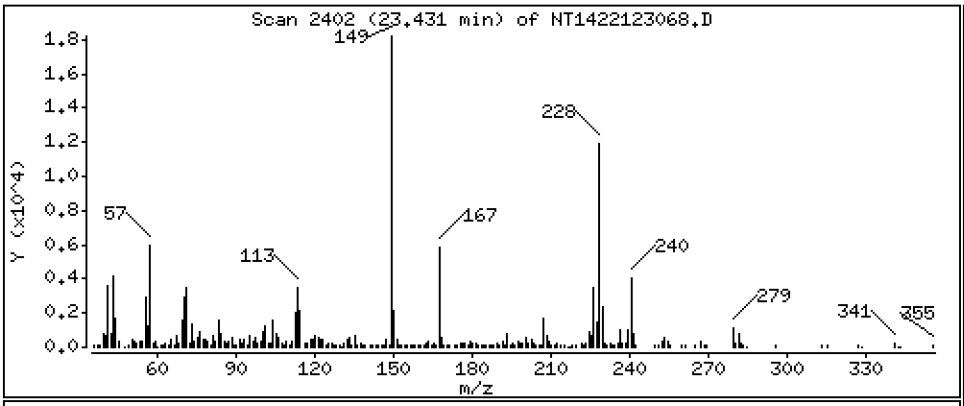
Operator: VTS

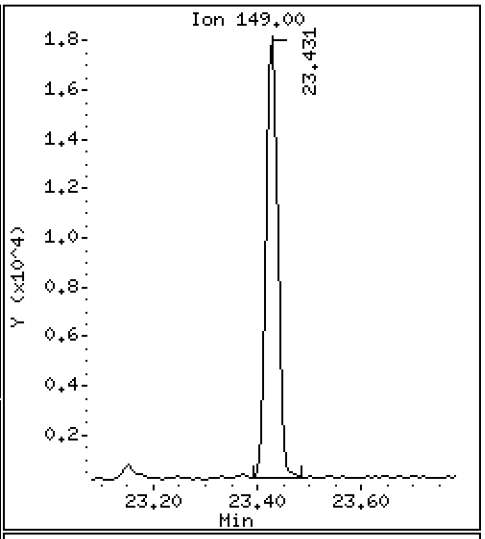
Column phase: ZB-5msi

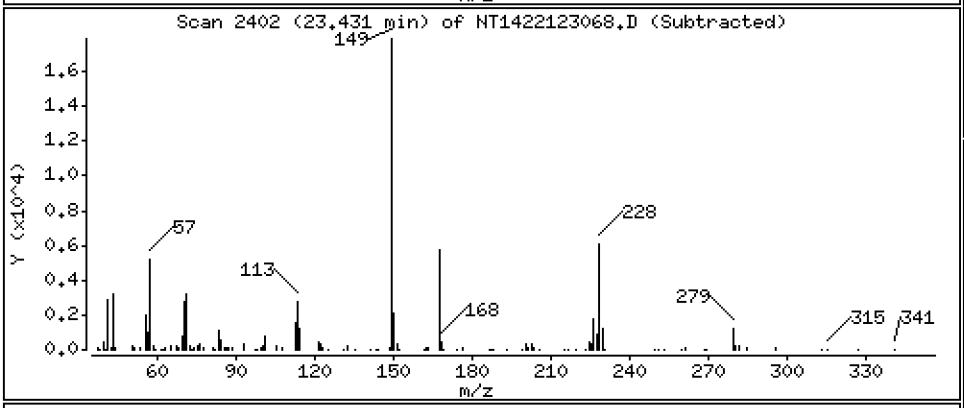
Column diameter: 0.25

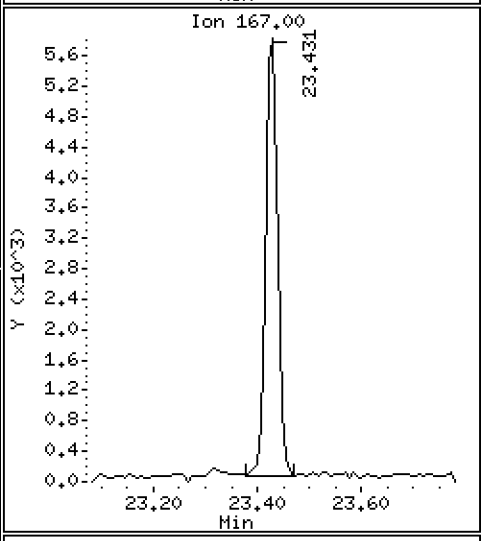
72 bis(2-Ethylhexyl)phthalate

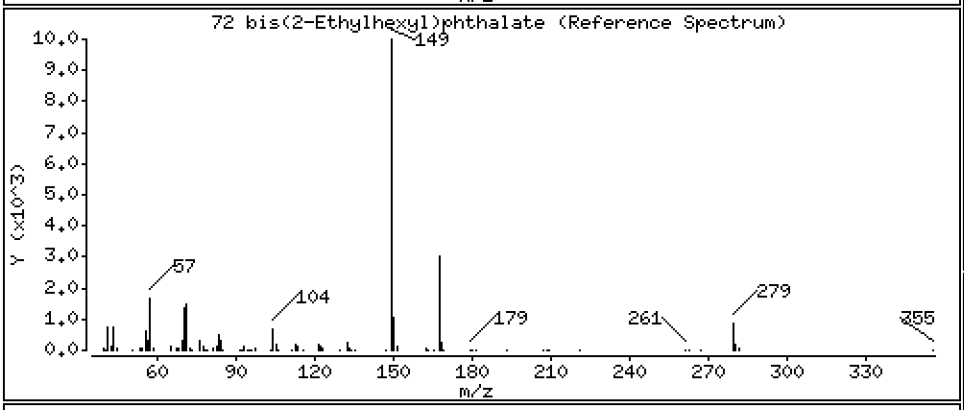
Concentration: 0.5136 ug/mL

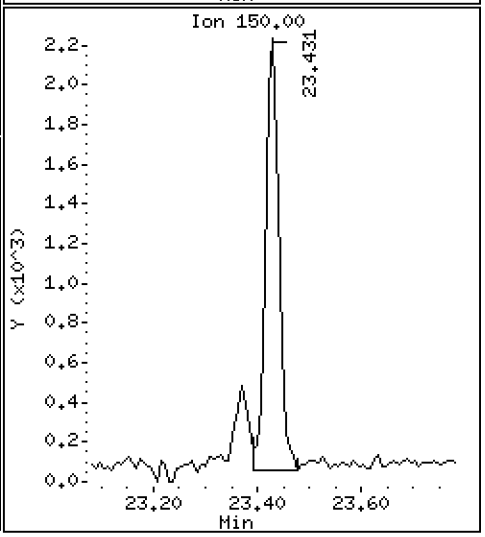


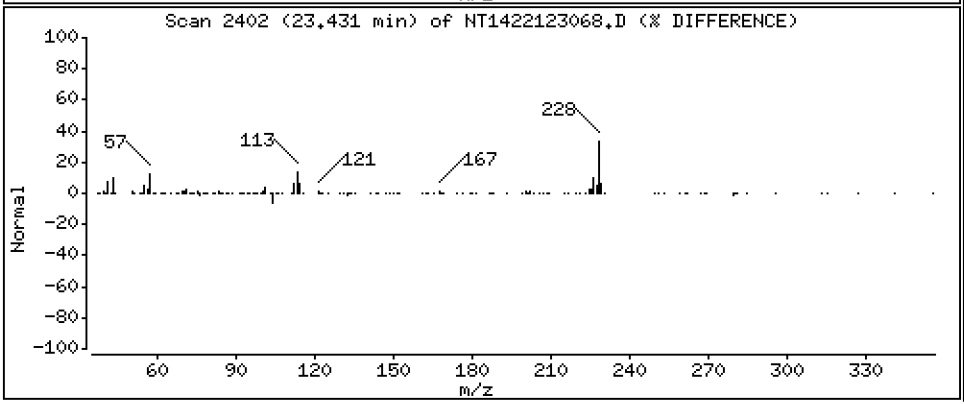












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

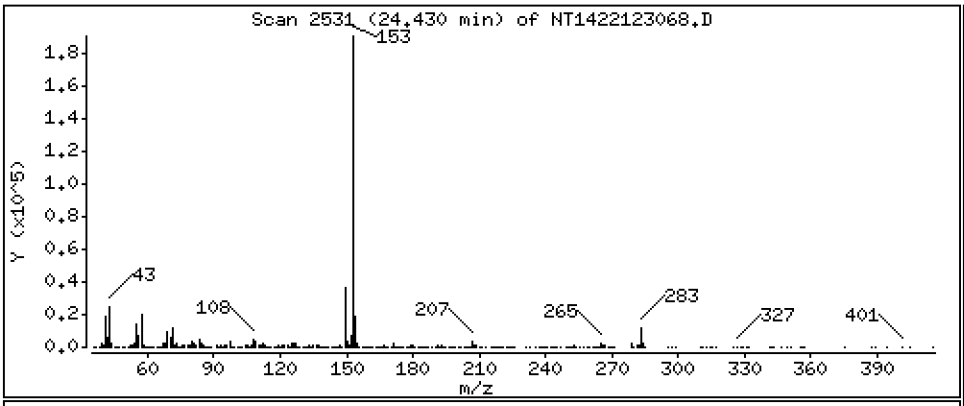
Operator: VTS

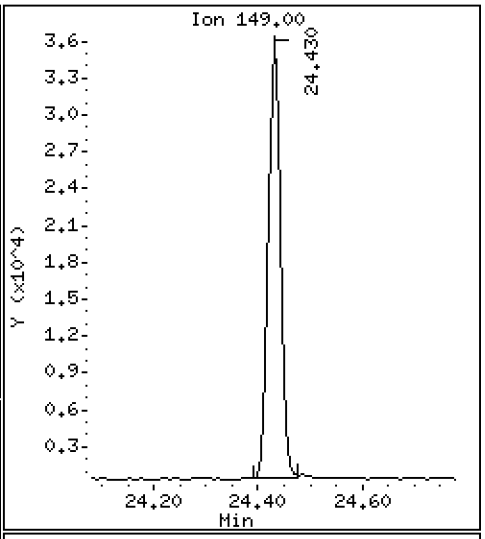
Column phase: ZB-5msi

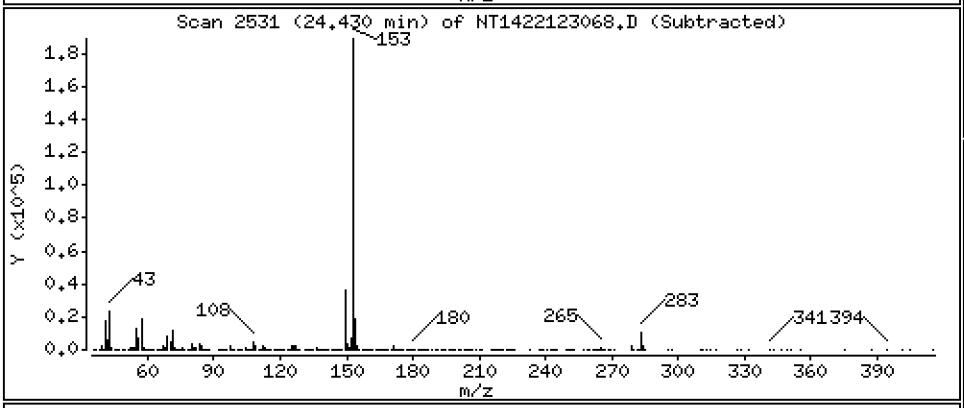
Column diameter: 0.25

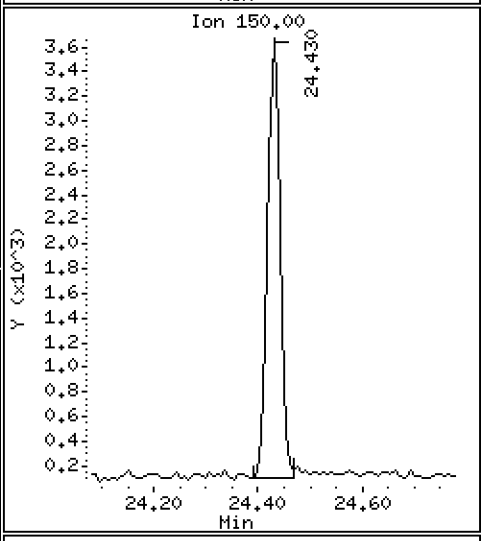
73 Di-n-octylphthalate

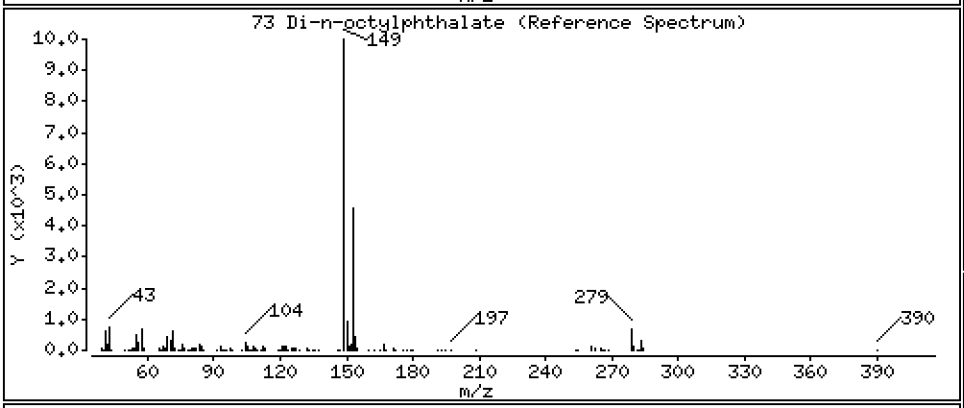
Concentration: 0.4900 ug/mL

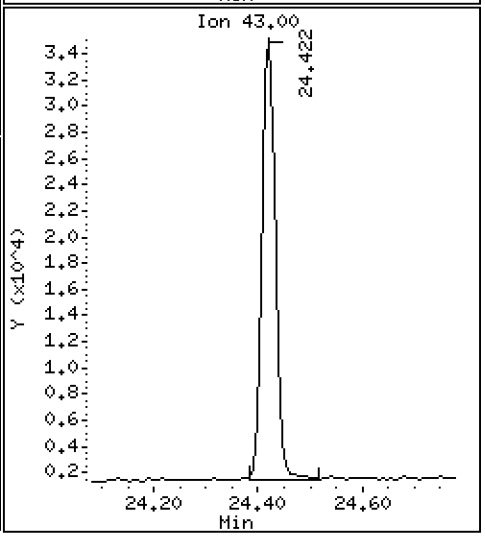


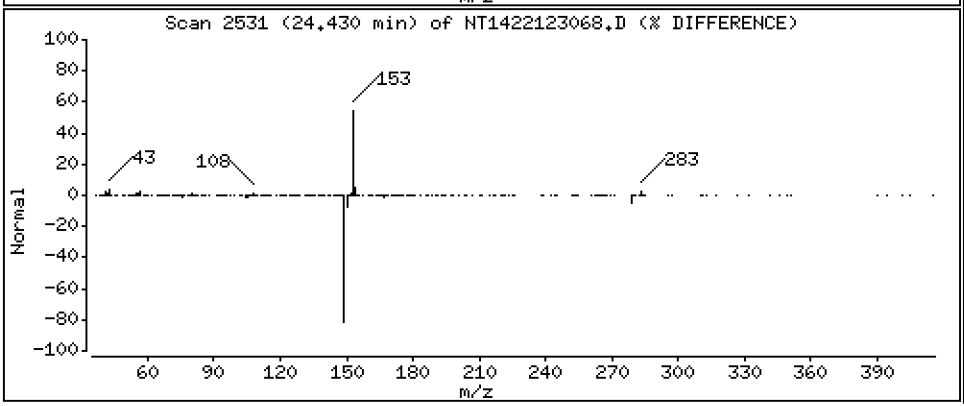












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

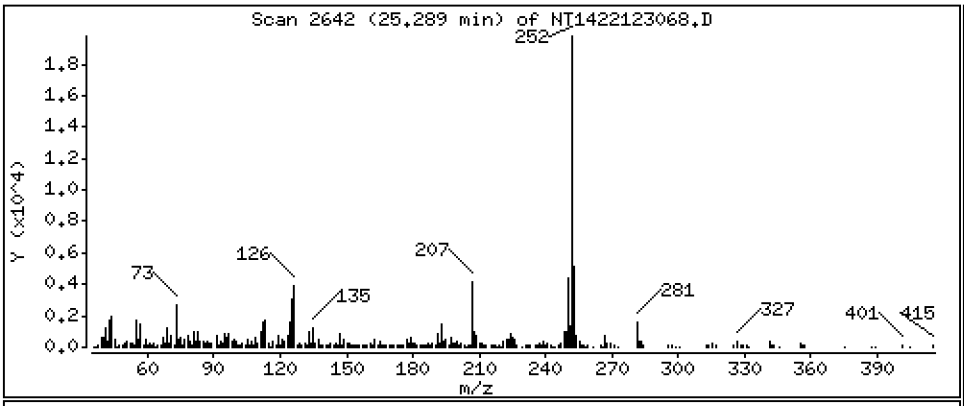
Operator: VTS

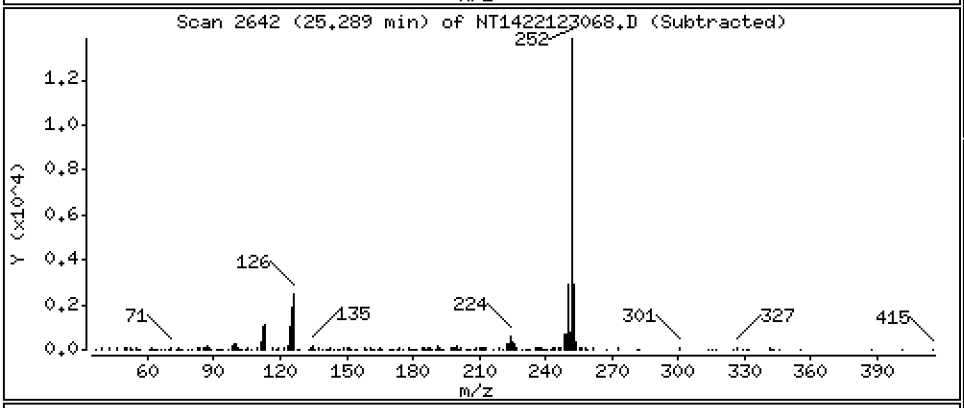
Column phase: ZB-5msi

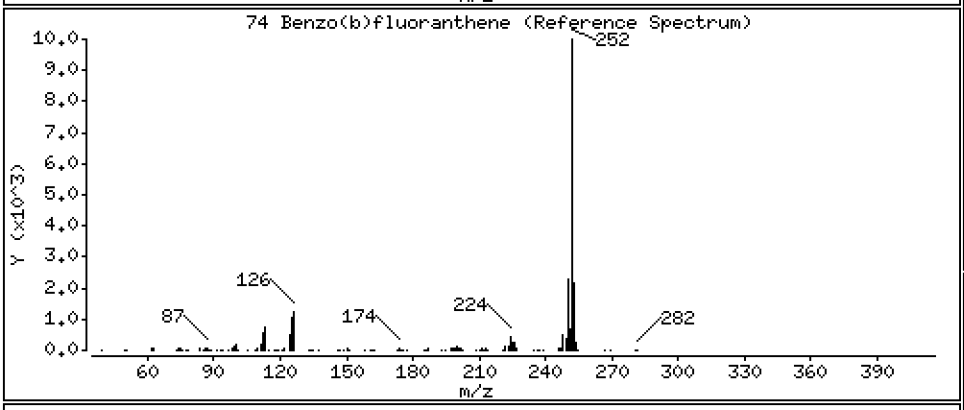
Column diameter: 0.25

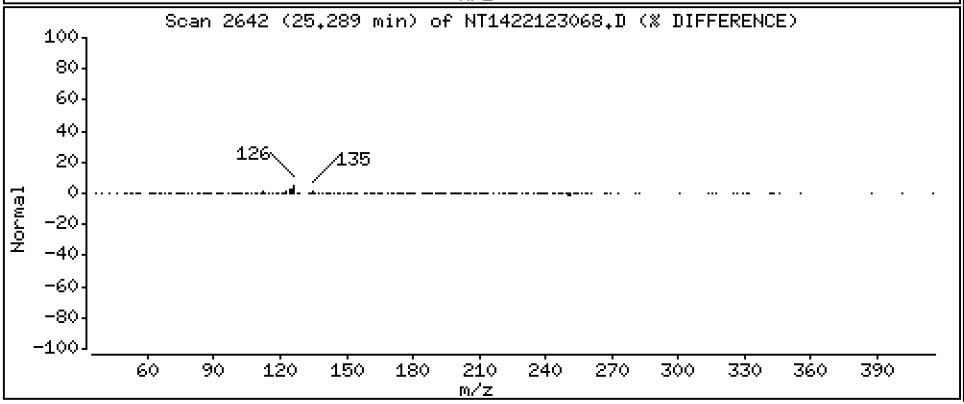
74 Benzo(b)fluoranthene

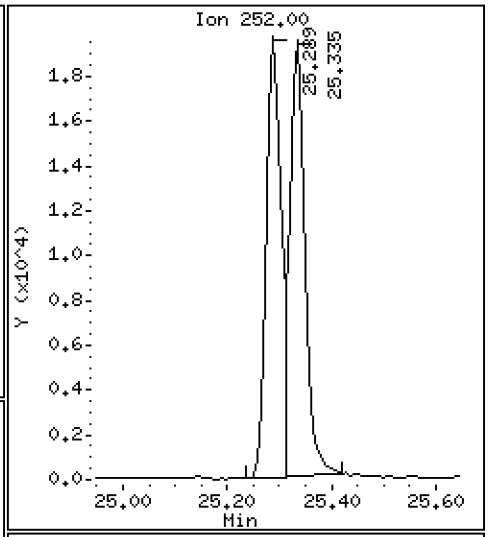
Concentration: 0.5437 ug/mL

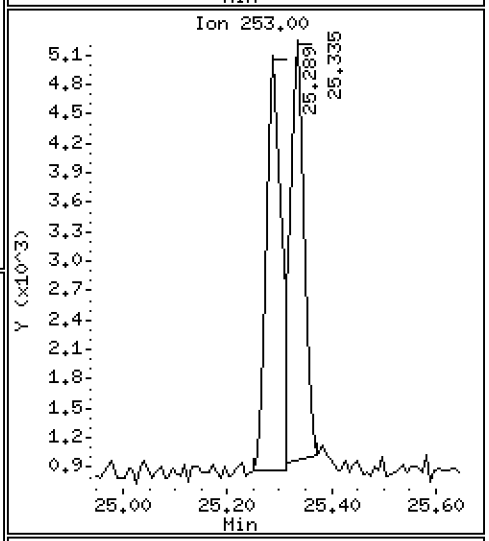


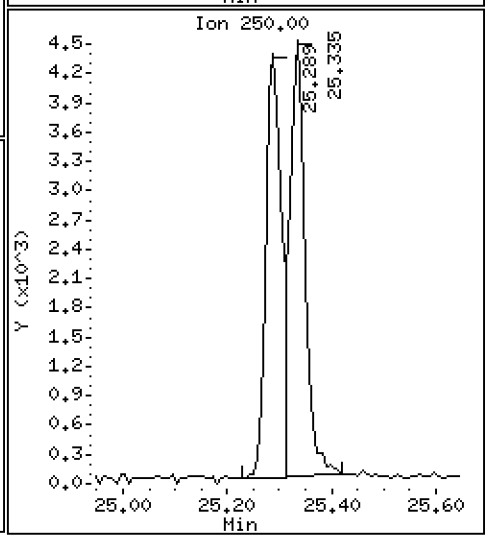












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

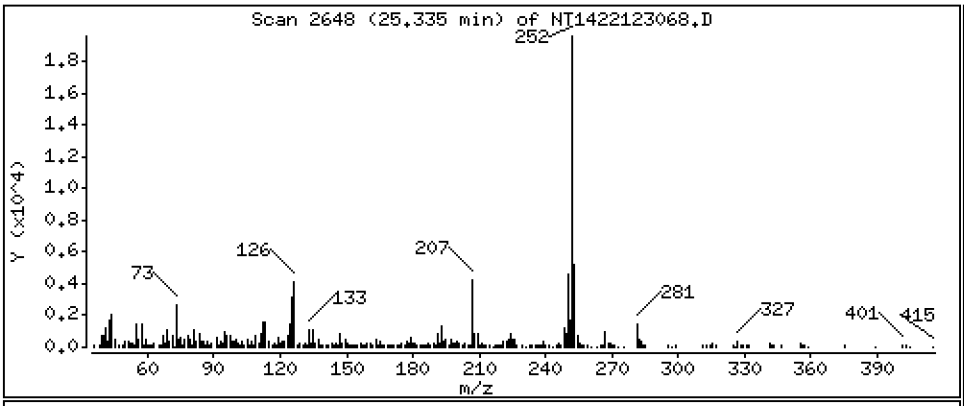
Operator: VTS

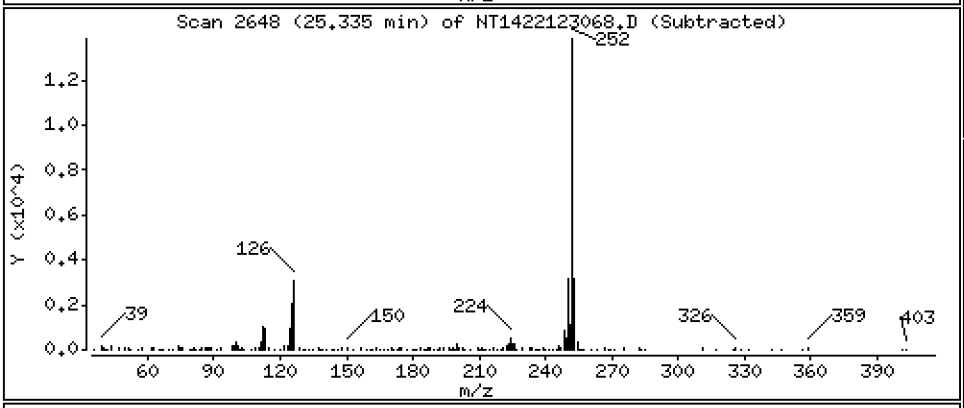
Column phase: ZB-5msi

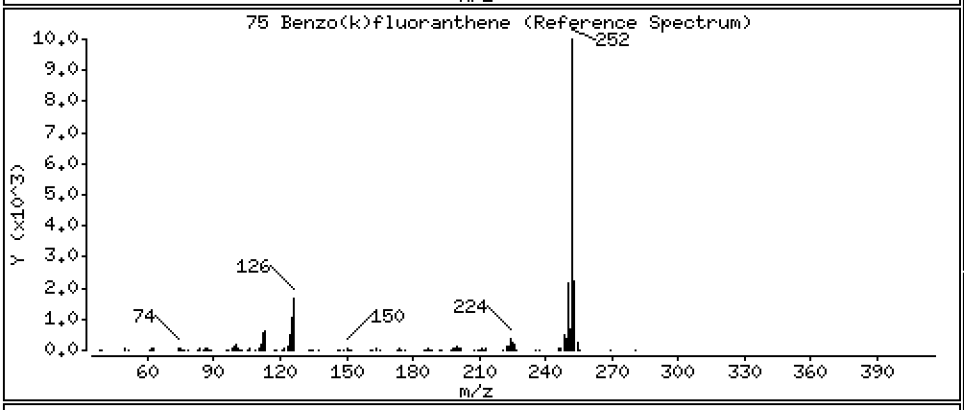
Column diameter: 0.25

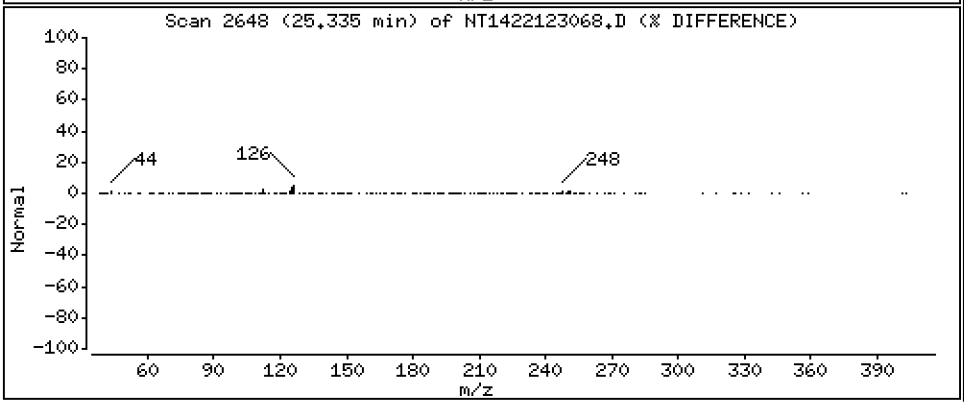
75 Benzo(k)fluoranthene

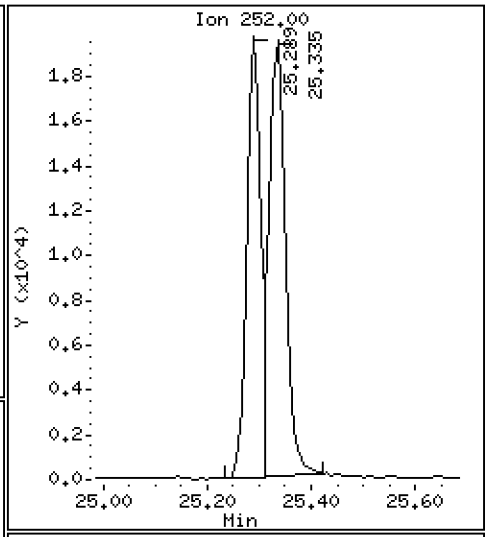
Concentration: 0.5702 ug/mL

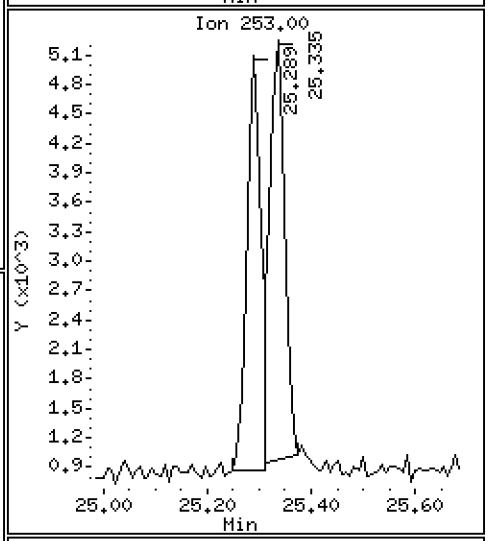


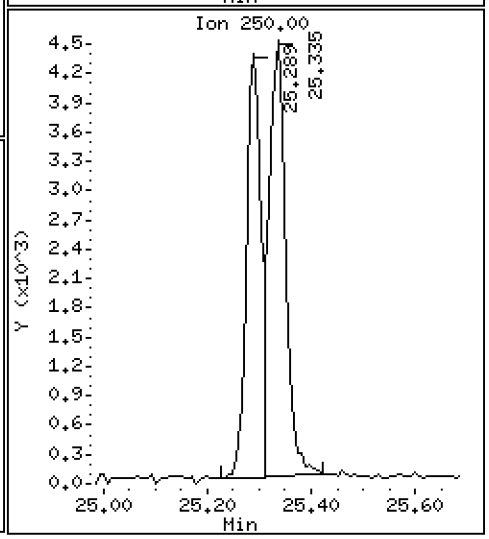












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

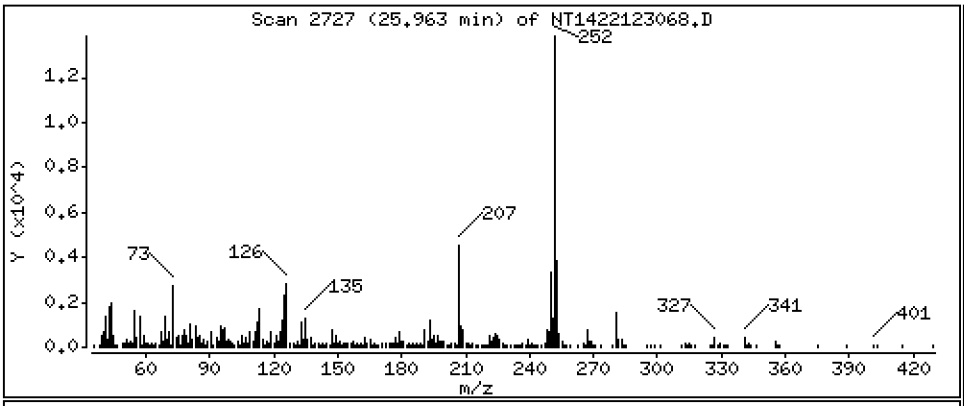
Operator: VTS

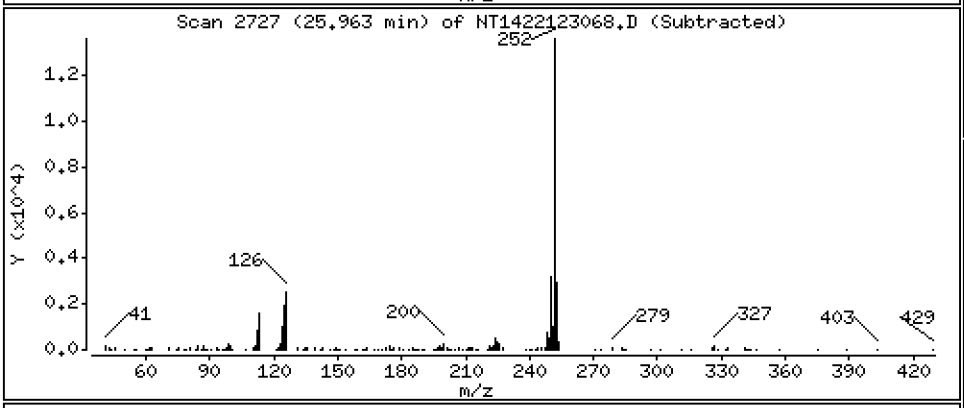
Column phase: ZB-5msi

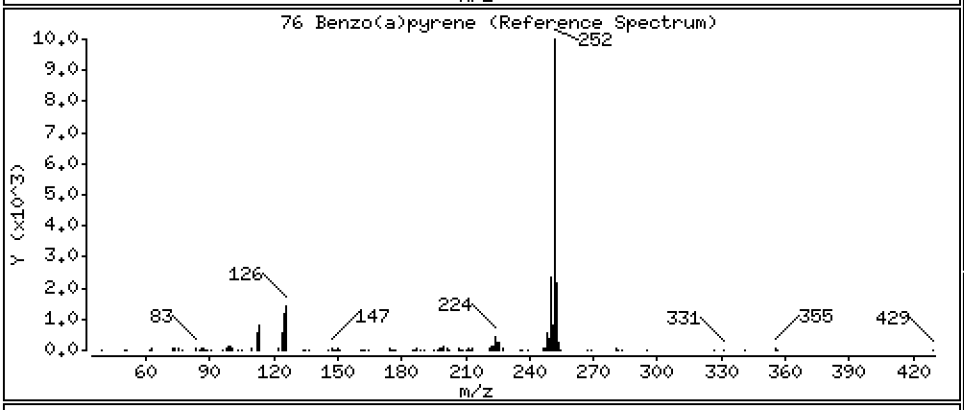
Column diameter: 0.25

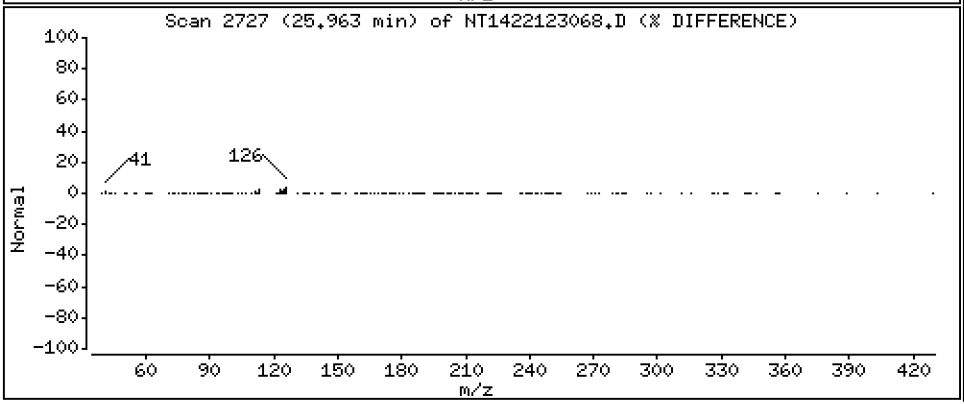
76 Benzo(a)pyrene

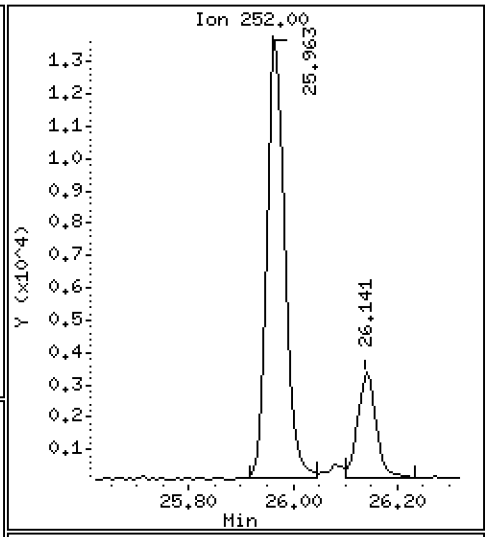
Concentration: 0.5296 ug/mL

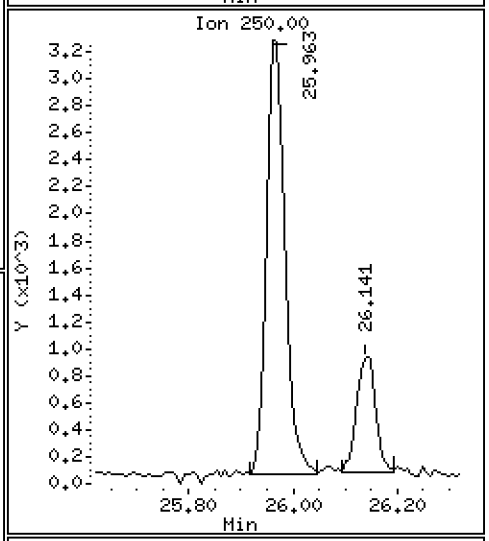


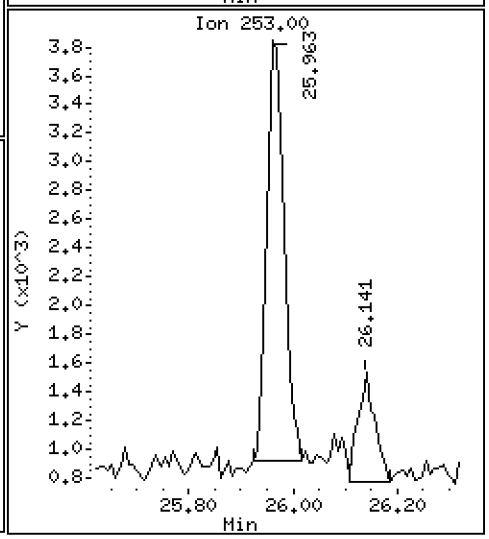












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123068.D

Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

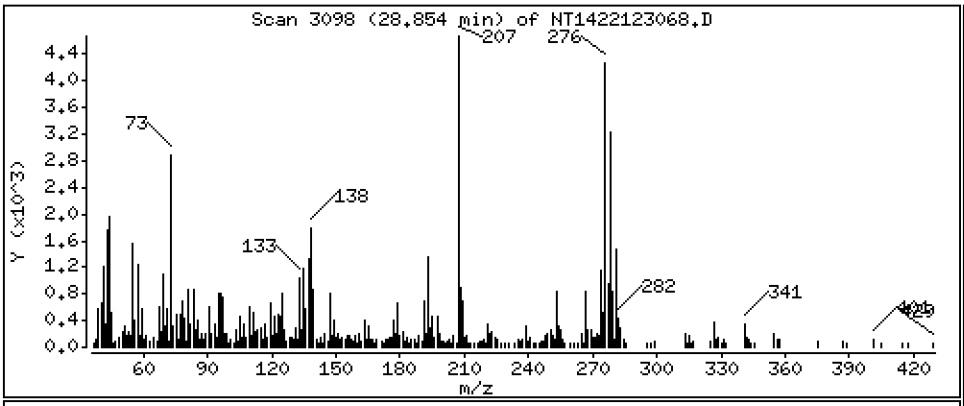
Operator: VTS

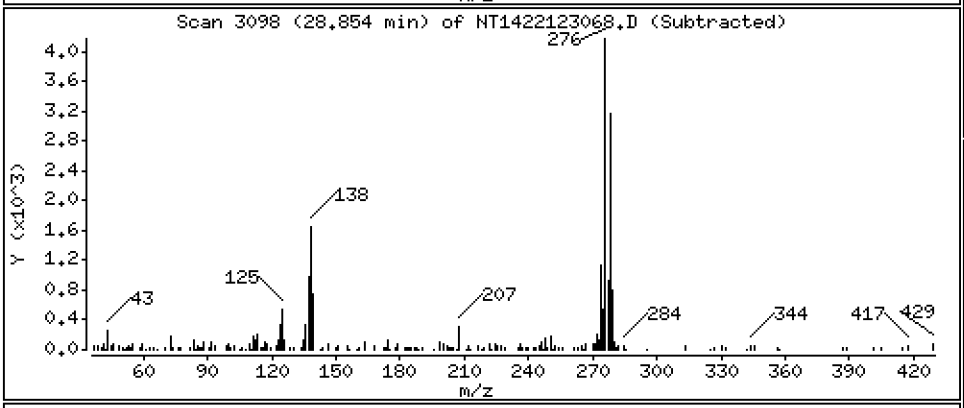
Column phase: ZB-5msi

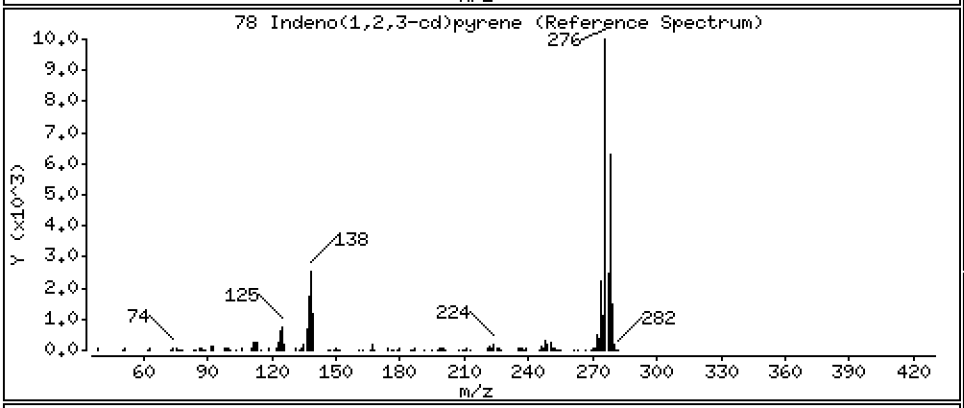
Column diameter: 0.25

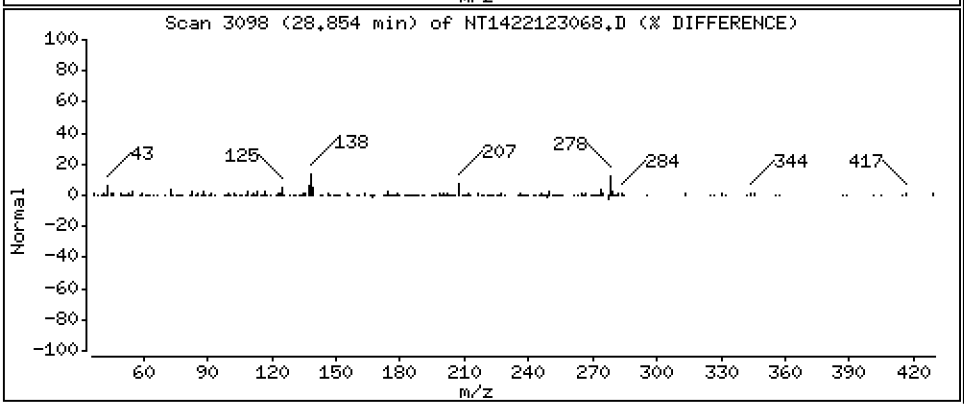
78 Indeno(1,2,3-cd)pyrene

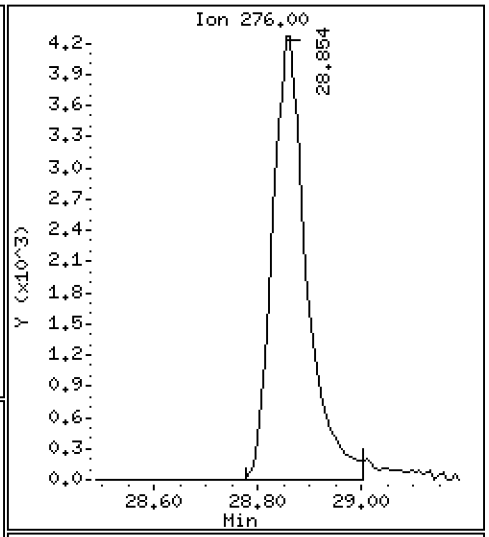
Concentration: 0.2876 ug/mL

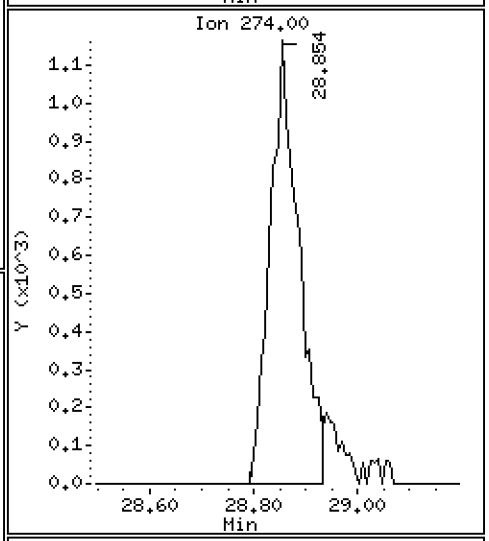


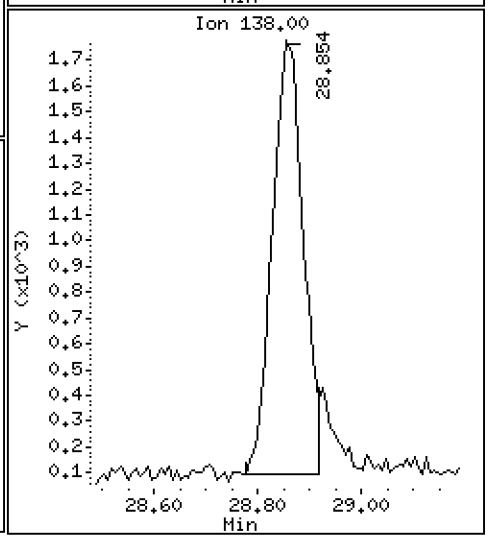












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

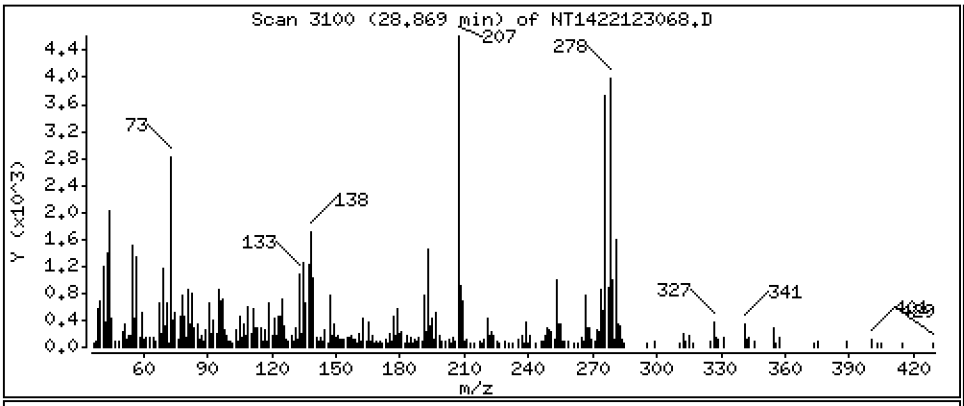
Operator: VTS

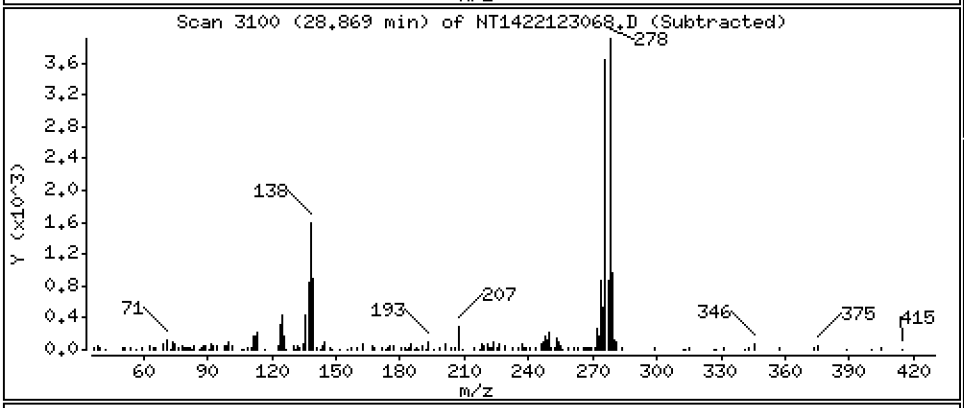
Column phase: ZB-5msi

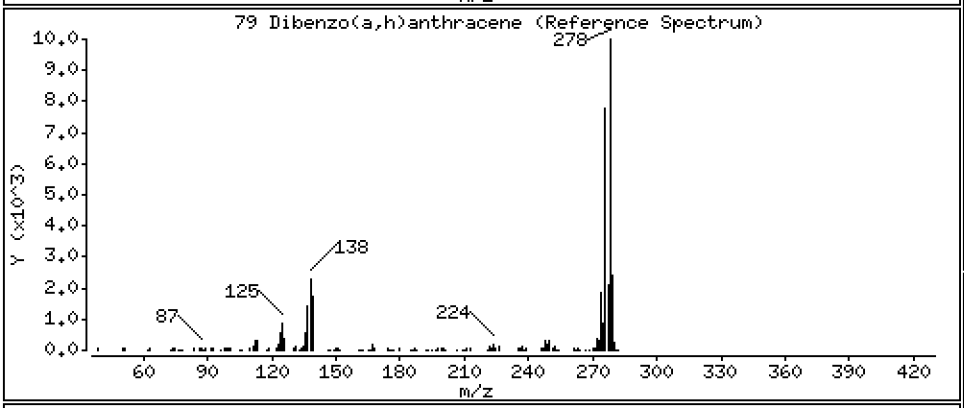
Column diameter: 0.25

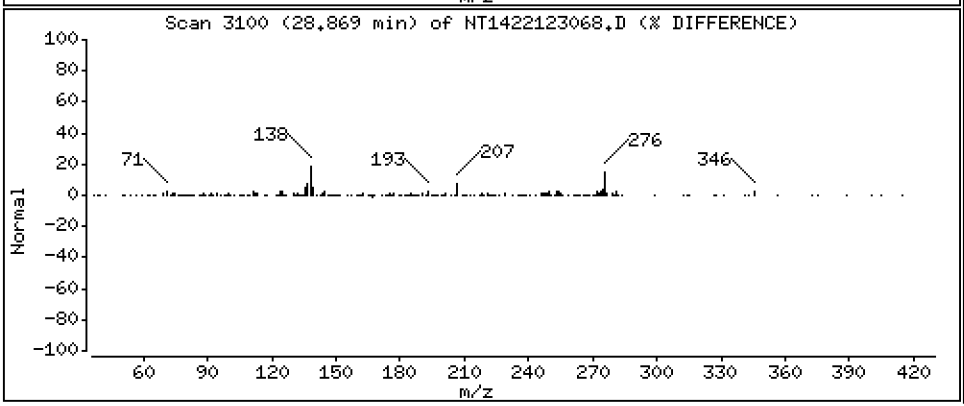
79 Dibenzo(a,h)anthracene

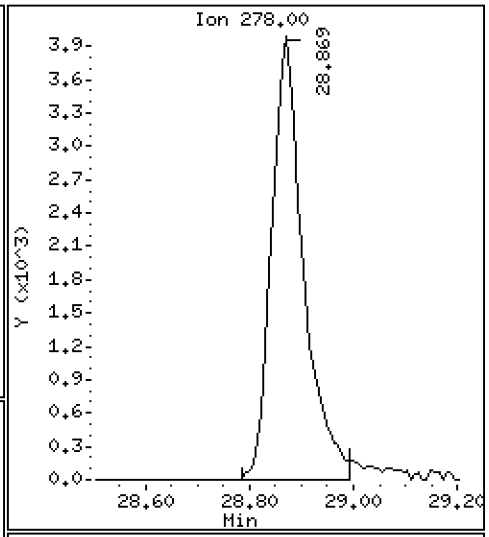
Concentration: 0.2950 ug/mL

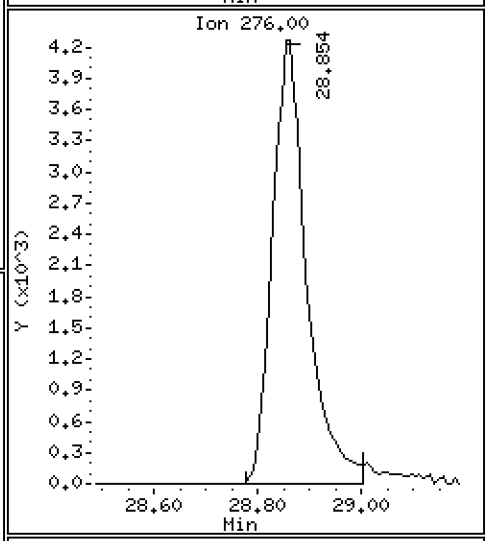


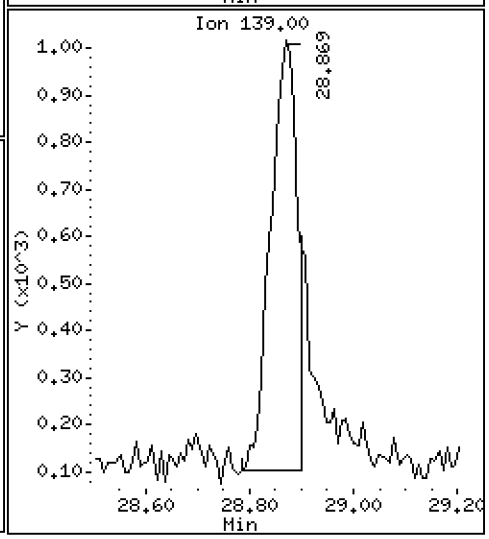












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123068.D

Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

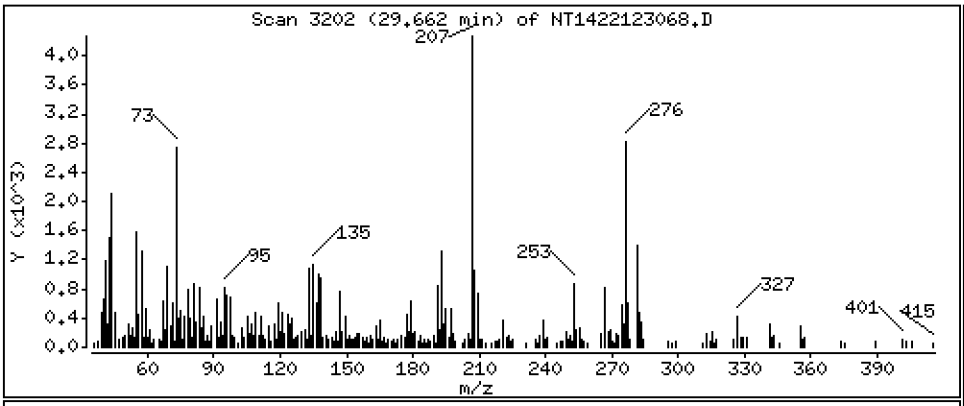
Operator: VTS

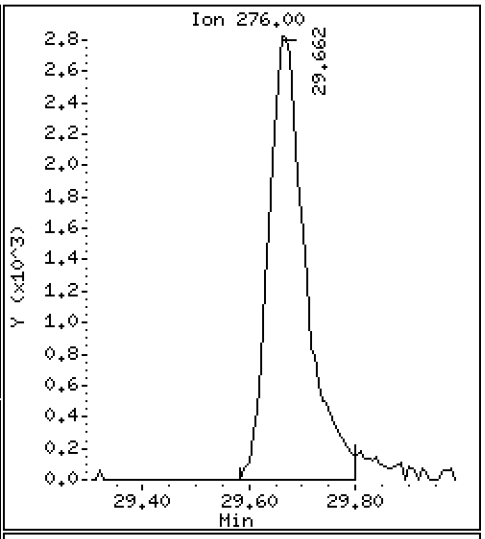
Column phase: ZB-5msi

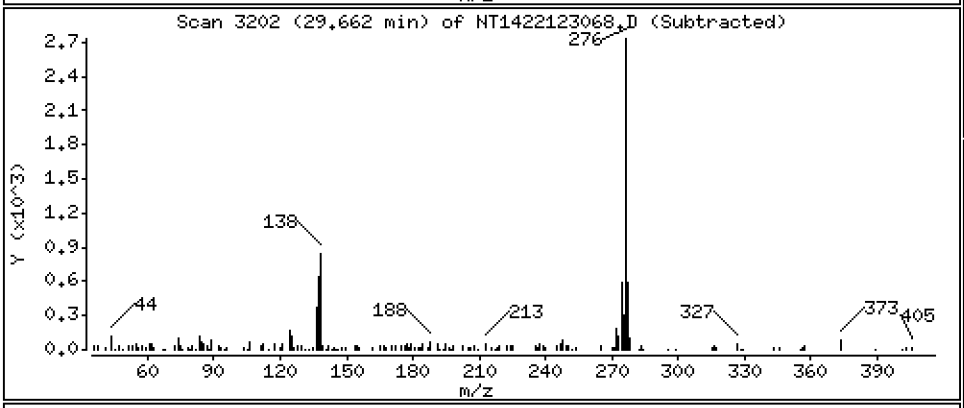
Column diameter: 0.25

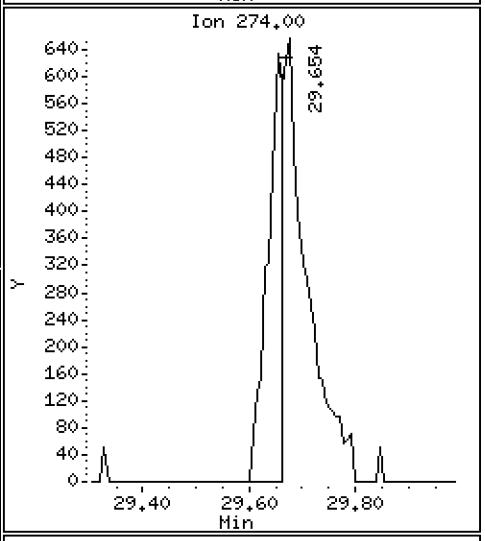
80 Benzo(g,h,i)perylene

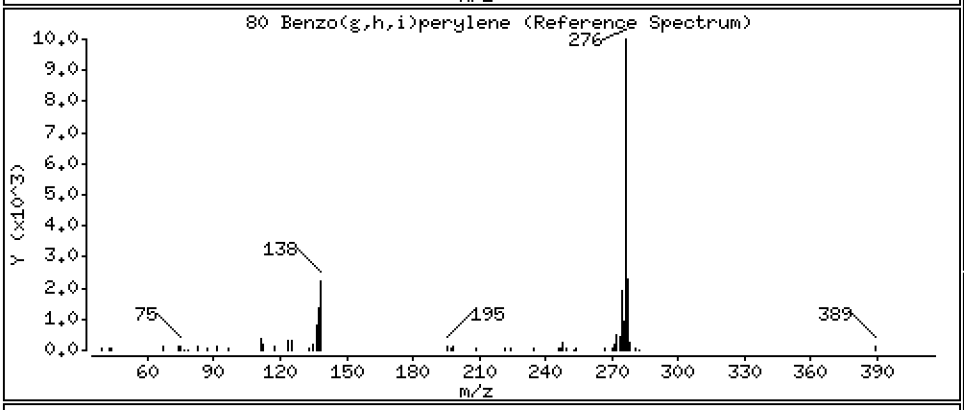
Concentration: 0.2408 ug/mL

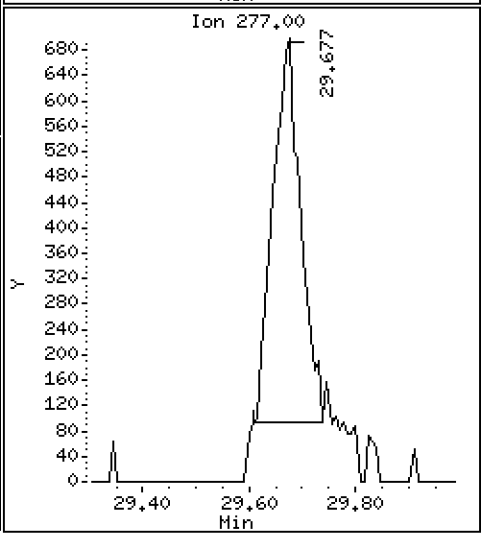


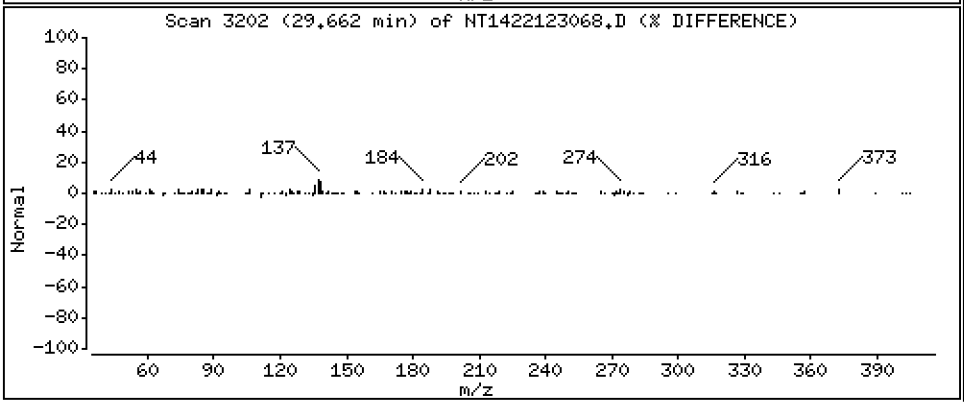












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

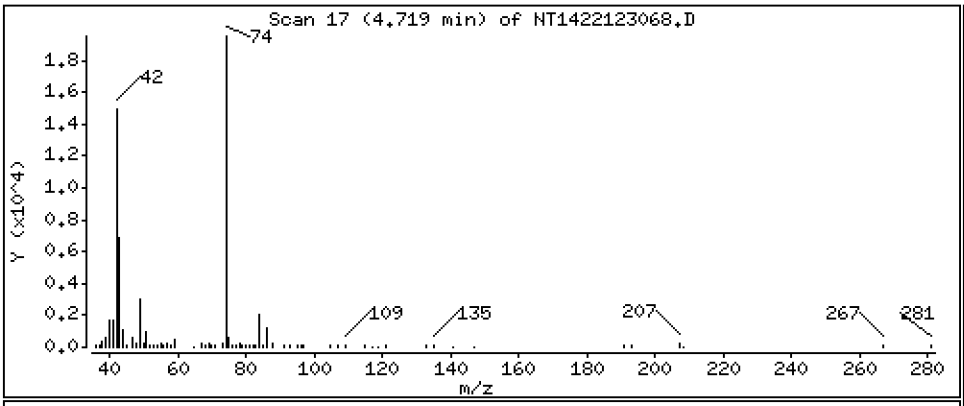
Operator: VTS

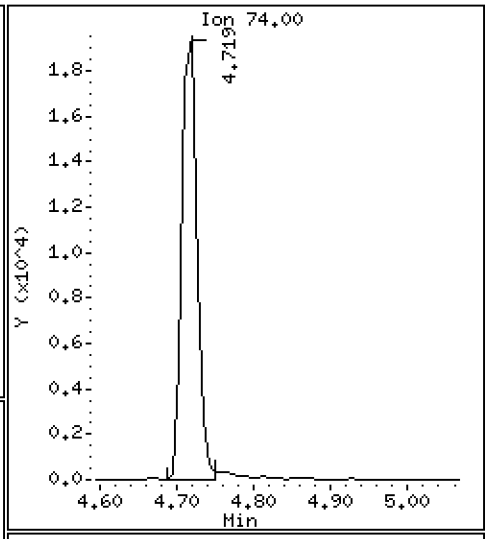
Column phase: ZB-5msi

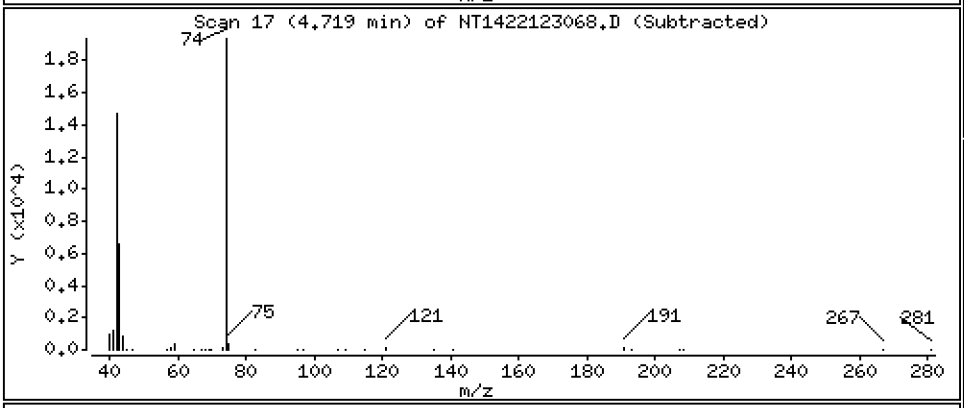
Column diameter: 0.25

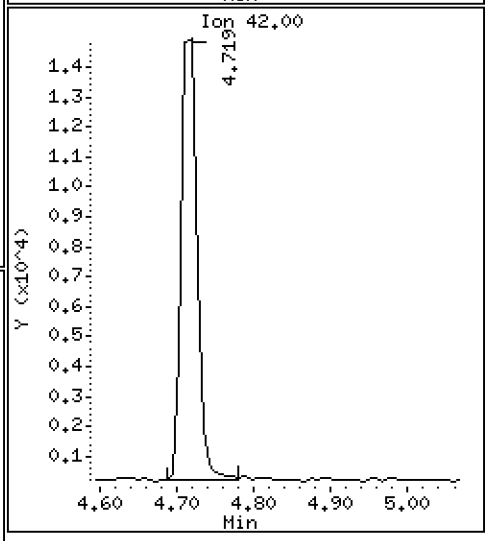
90 N-Nitrosodimethylamine

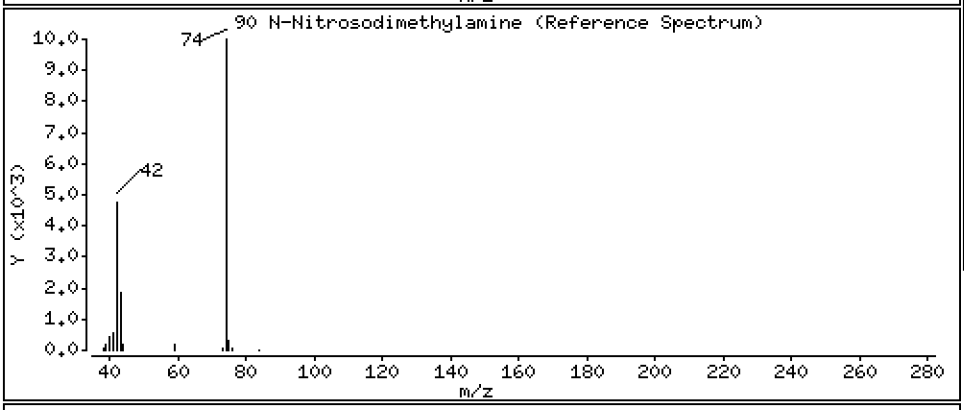
Concentration: 1.011 ug/mL

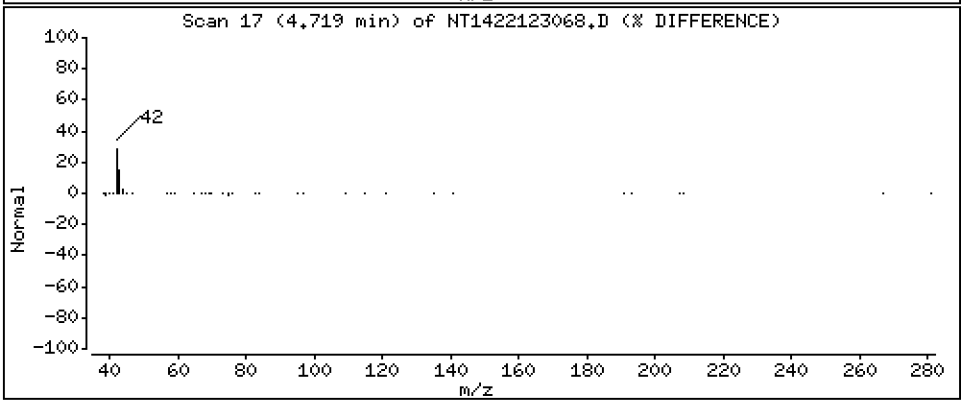












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

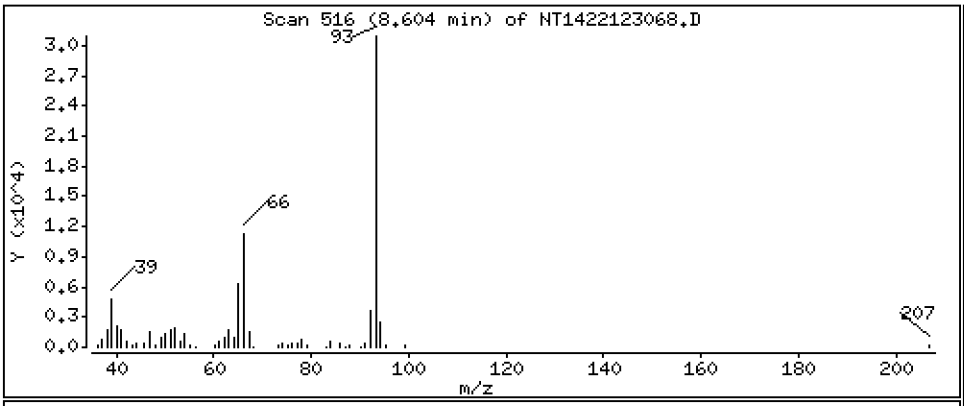
Operator: VTS

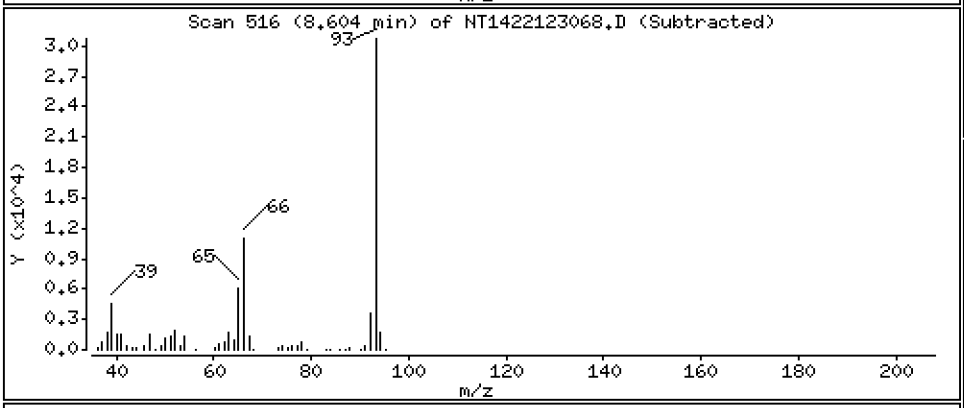
Column phase: ZB-5msi

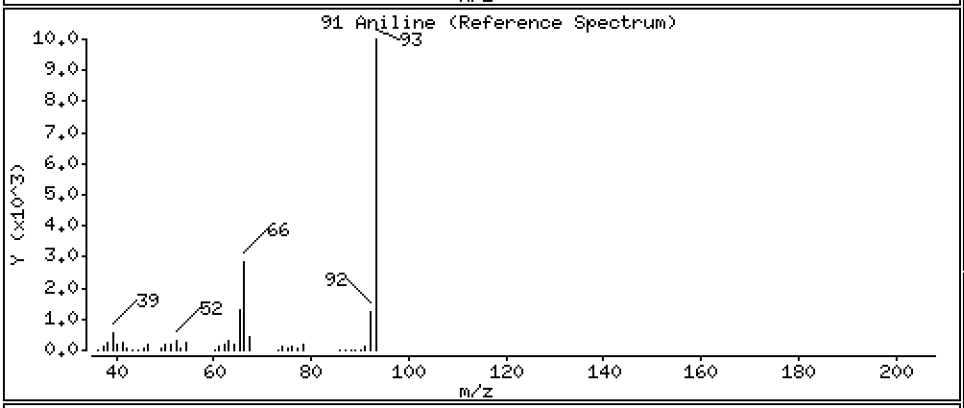
Column diameter: 0.25

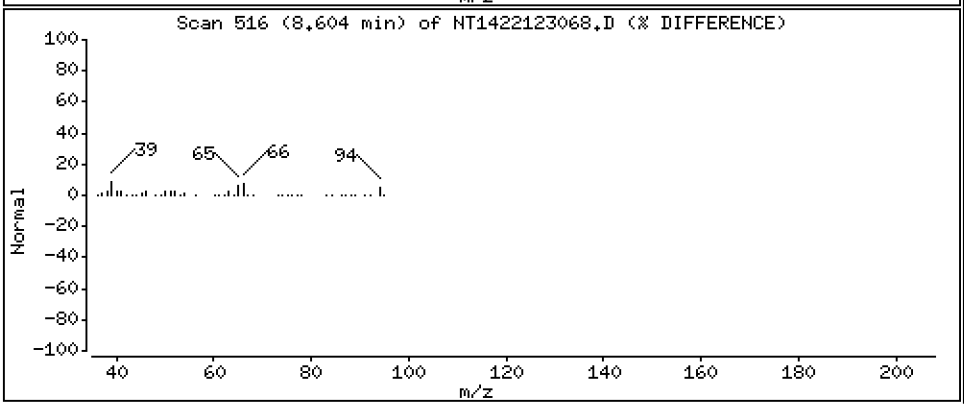
91 Aniline

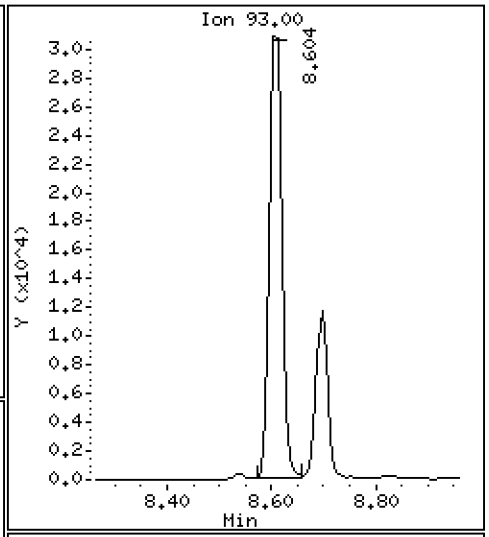
Concentration: 0.9709 ug/mL

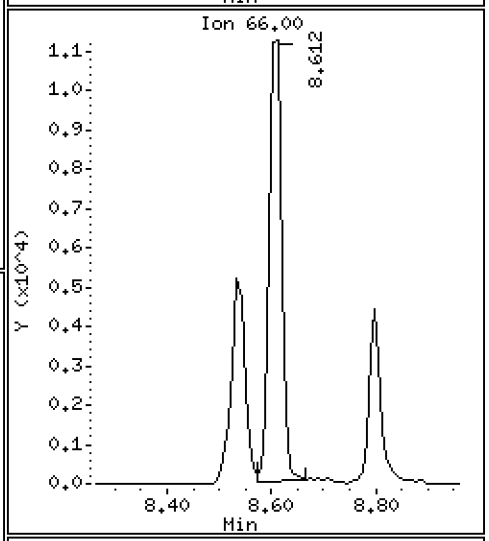


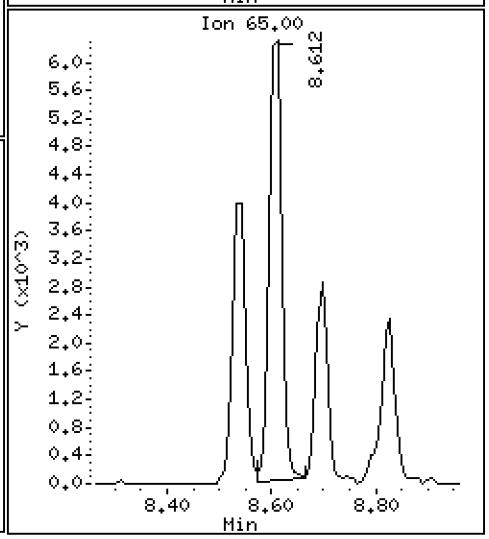












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

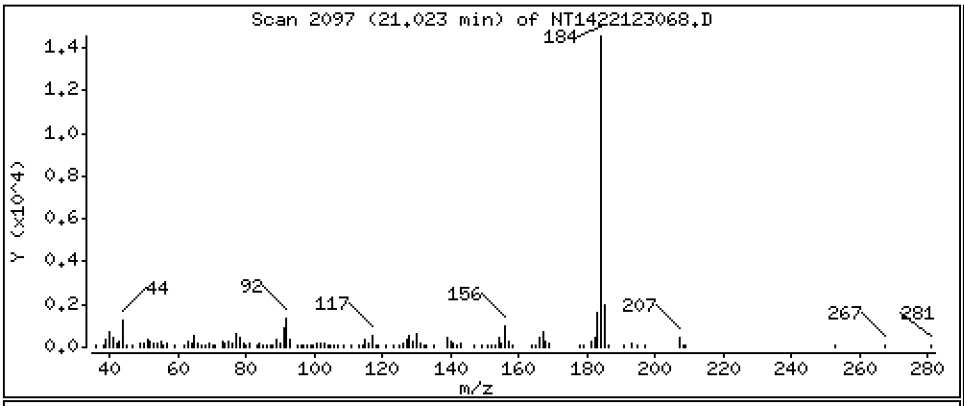
Operator: VTS

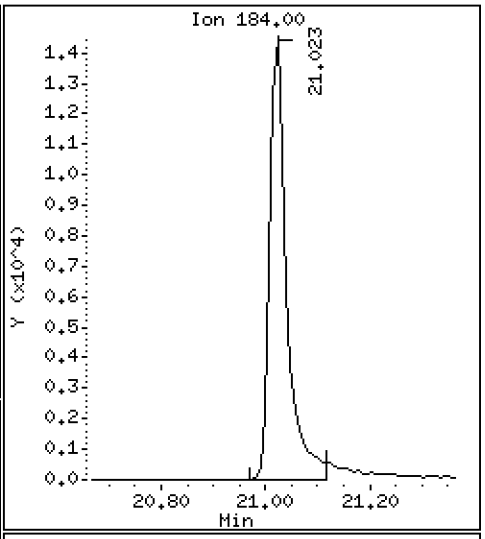
Column phase: ZB-5msi

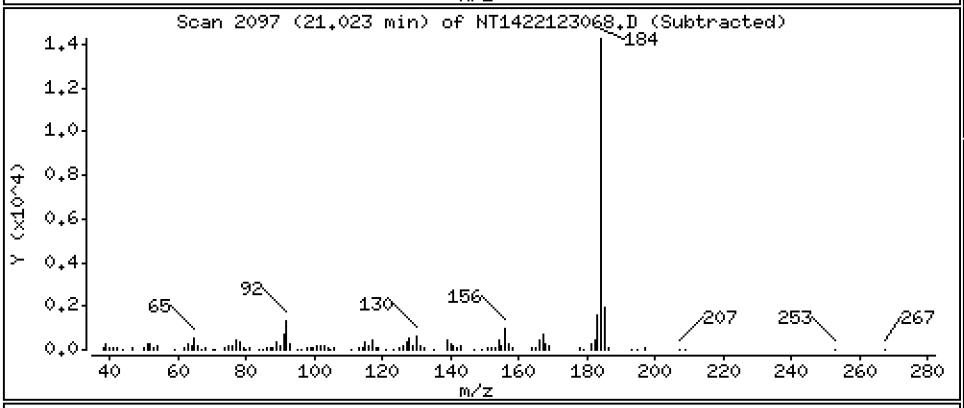
Column diameter: 0.25

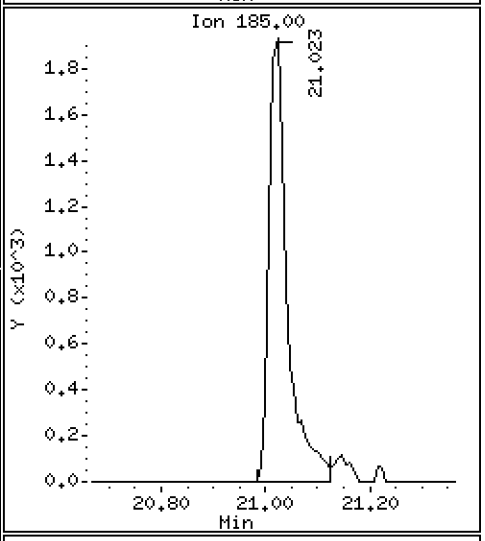
93 Benzidine

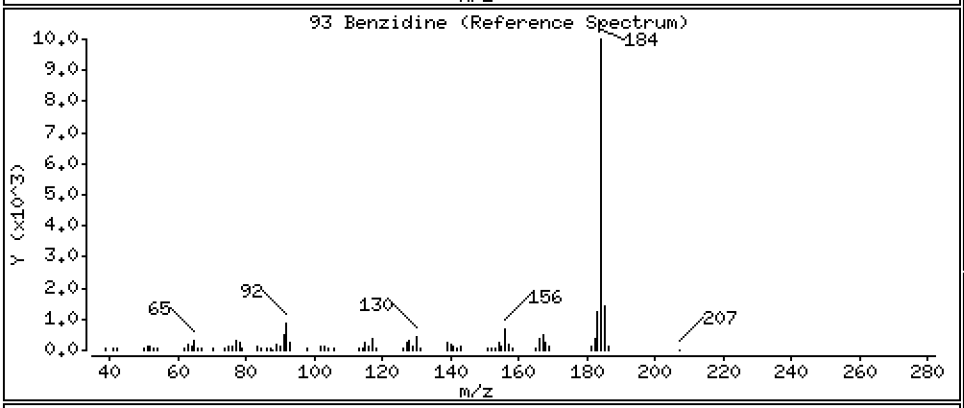
Concentration: 0.8853 ug/mL

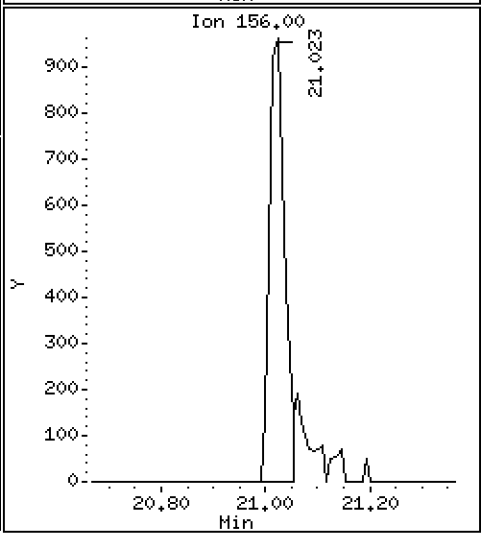


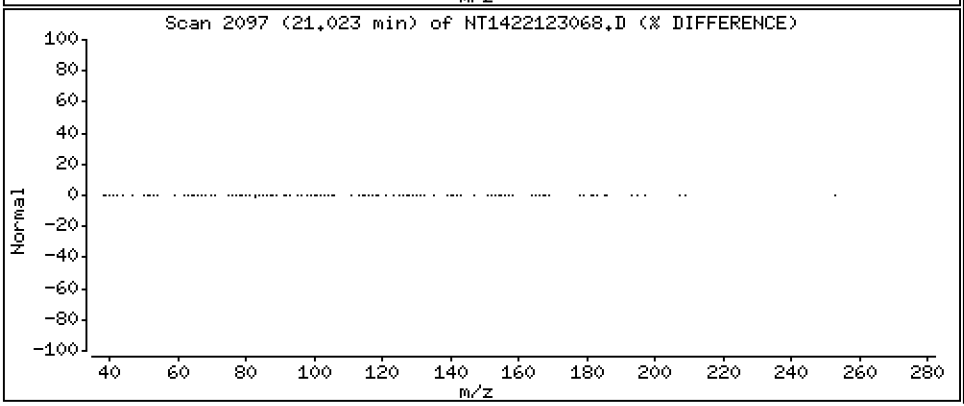












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123068.D

Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

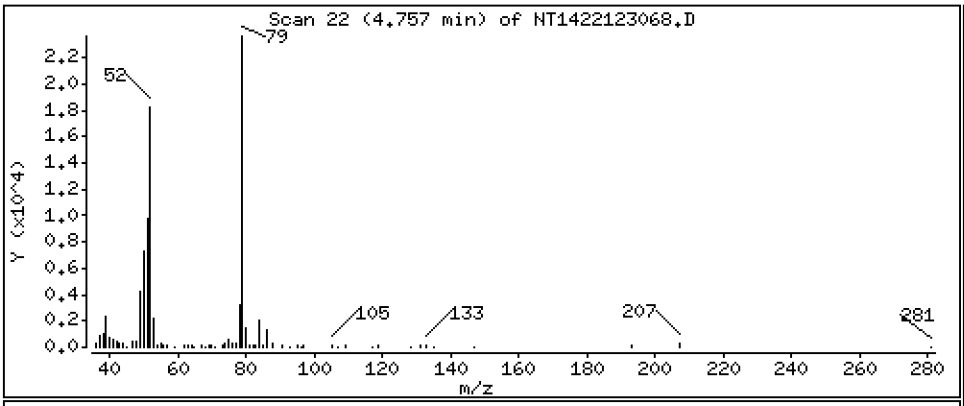
Operator: VTS

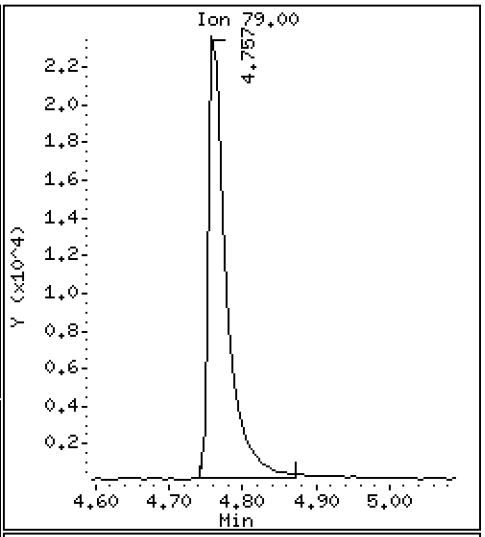
Column phase: ZB-5msi

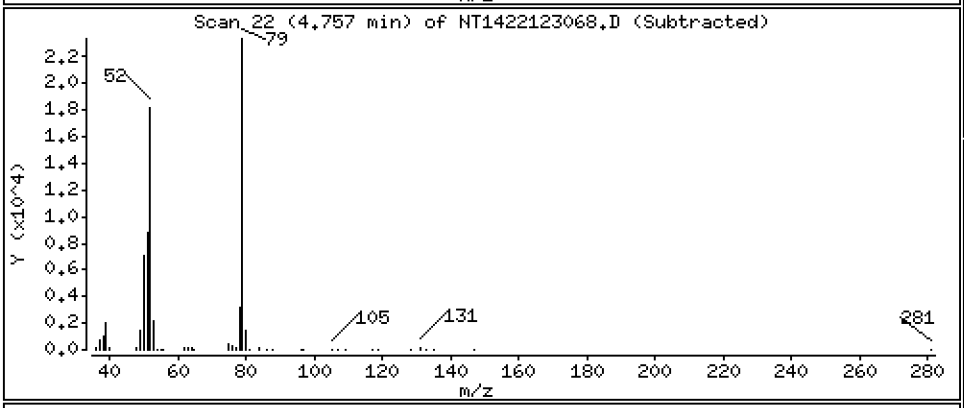
Column diameter: 0.25

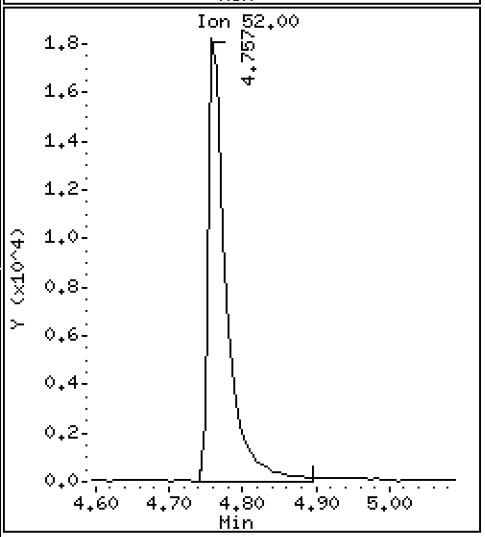
103 Pyridine

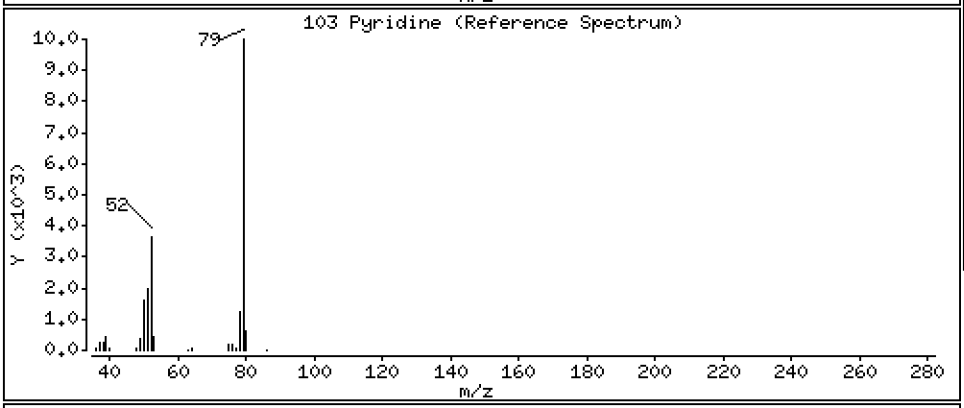
Concentration: 0.5018 ug/mL

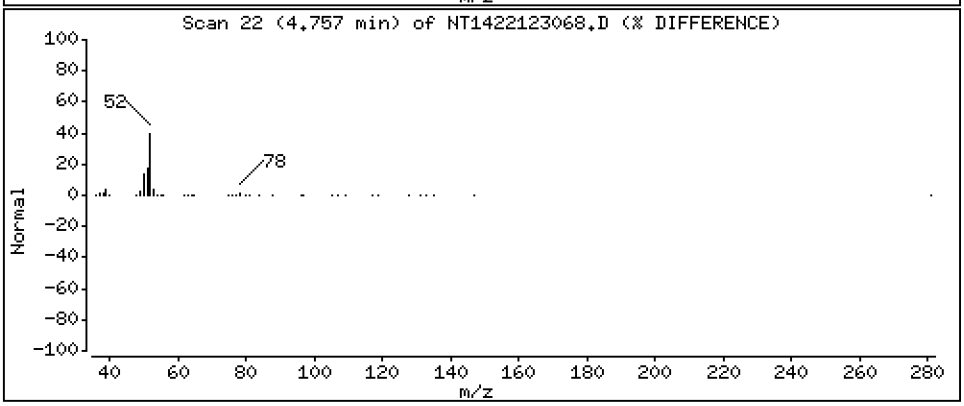












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

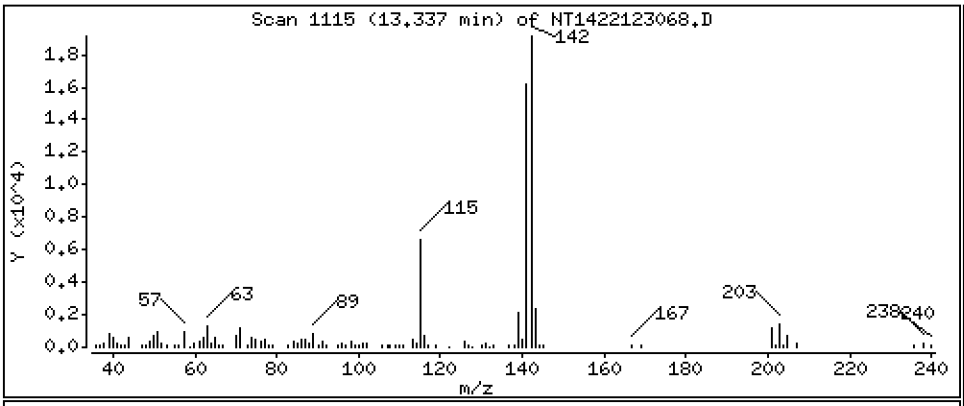
Operator: VTS

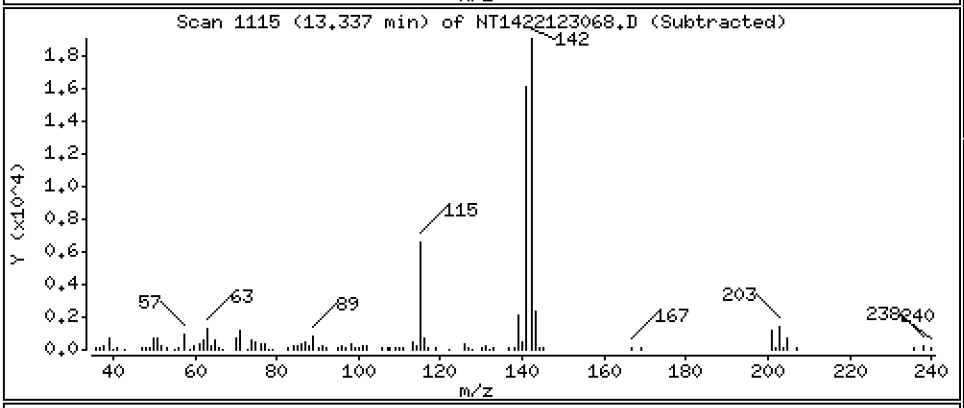
Column phase: ZB-5msi

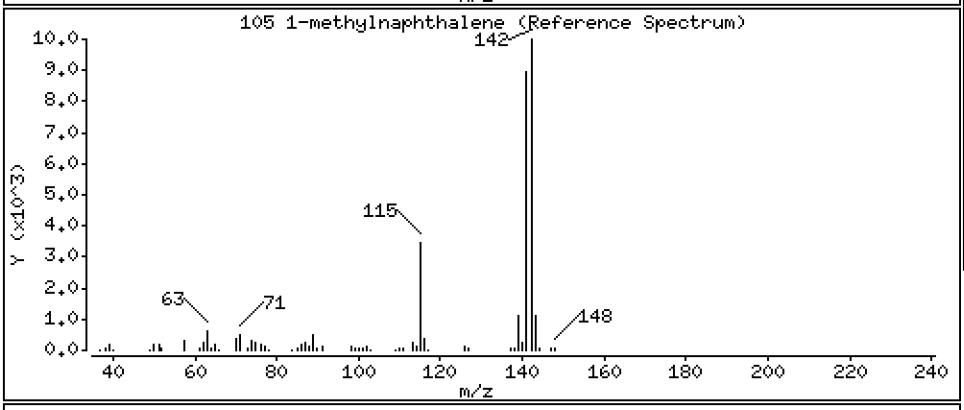
Column diameter: 0.25

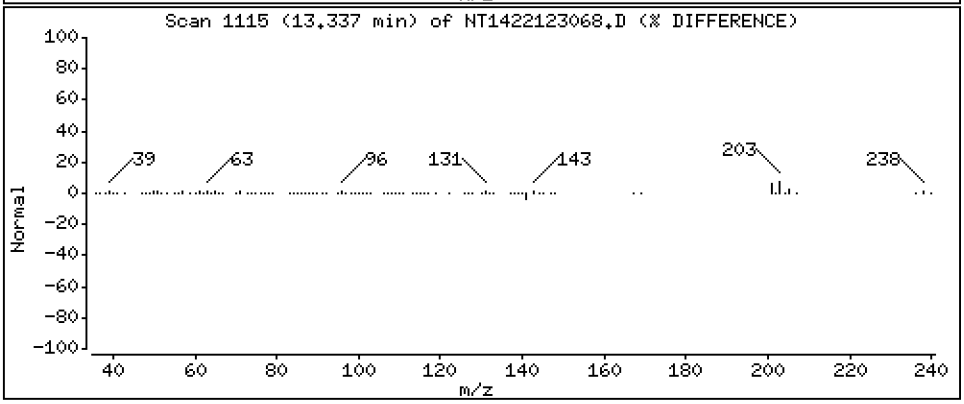
105 1-methylnaphthalene

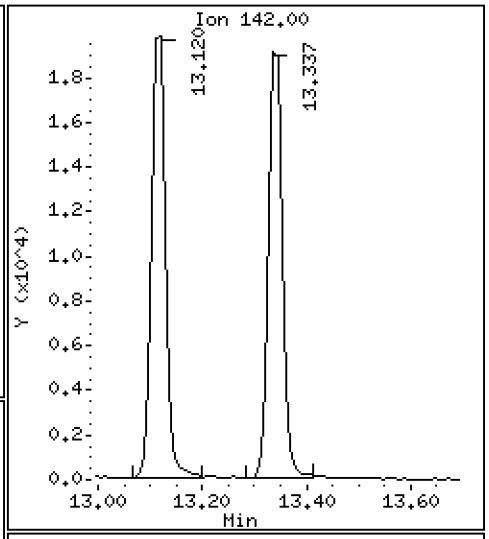
Concentration: 0.4742 ug/mL

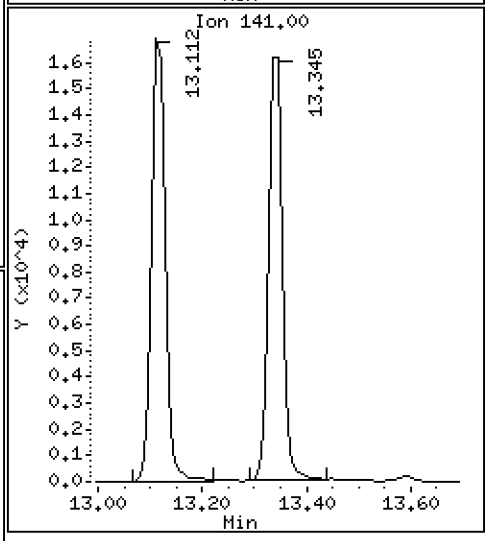












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

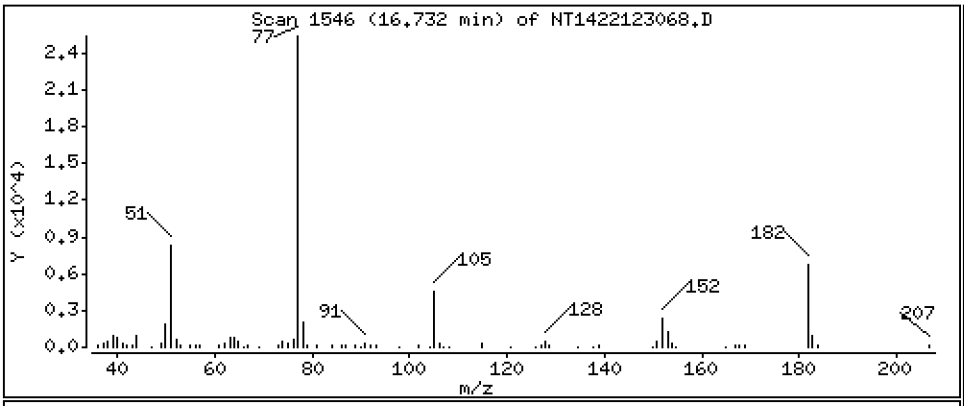
Operator: VTS

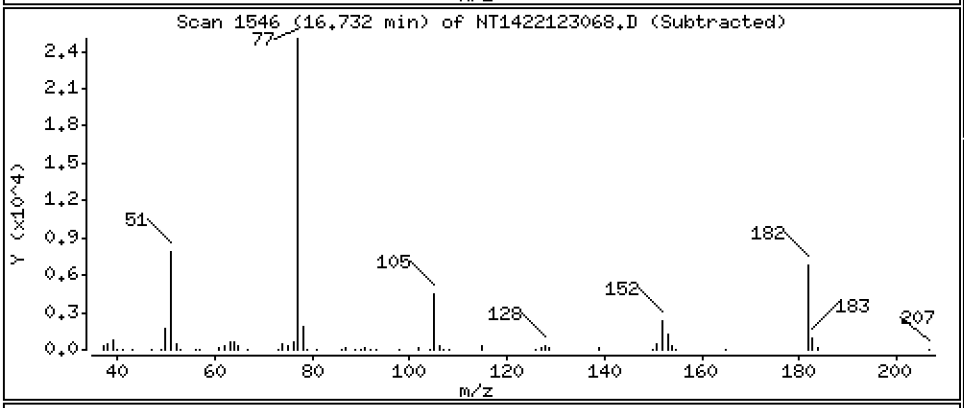
Column phase: ZB-5msi

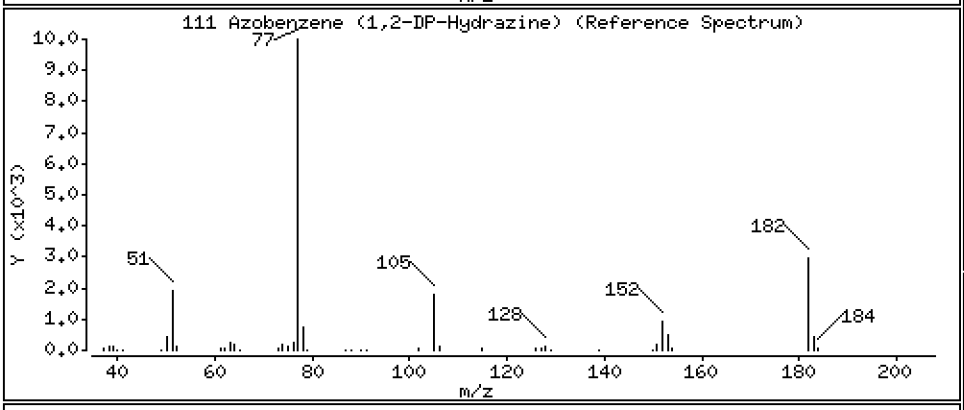
Column diameter: 0.25

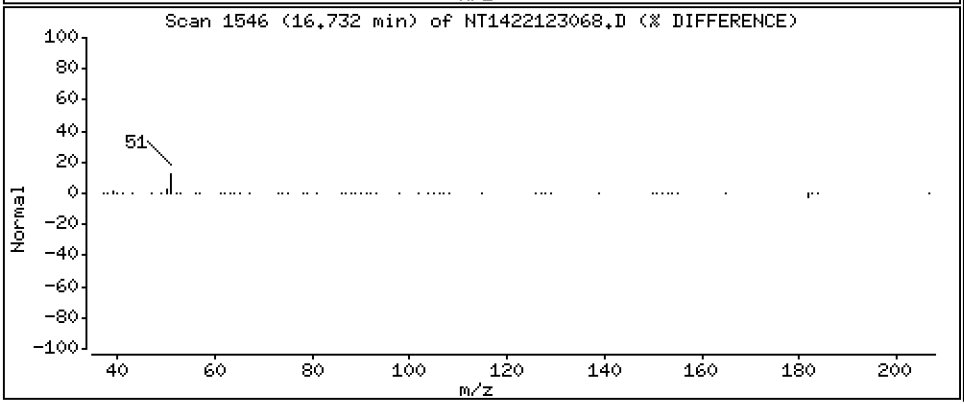
111 Azobenzene (1,2-DP-Hydrazine)

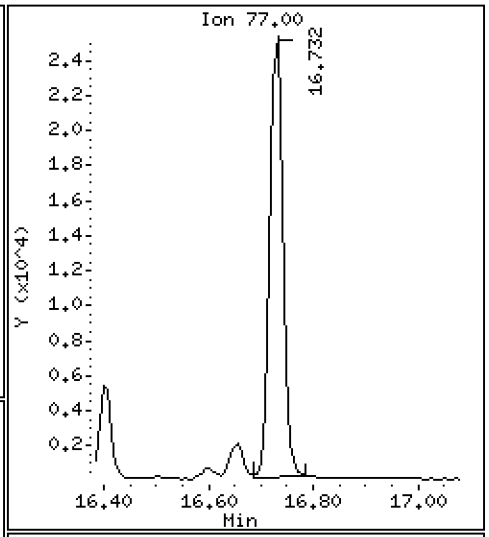
Concentration: 0.5334 ug/mL

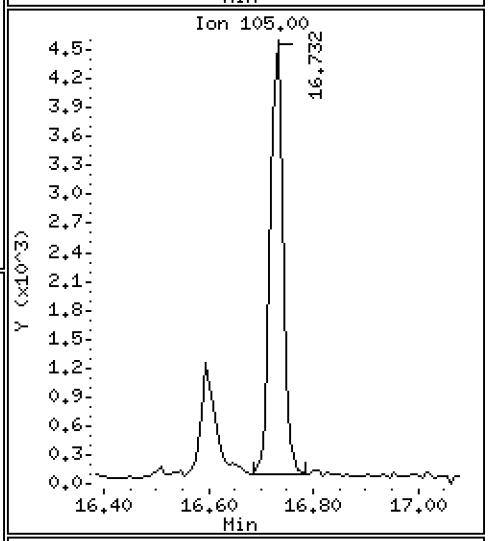


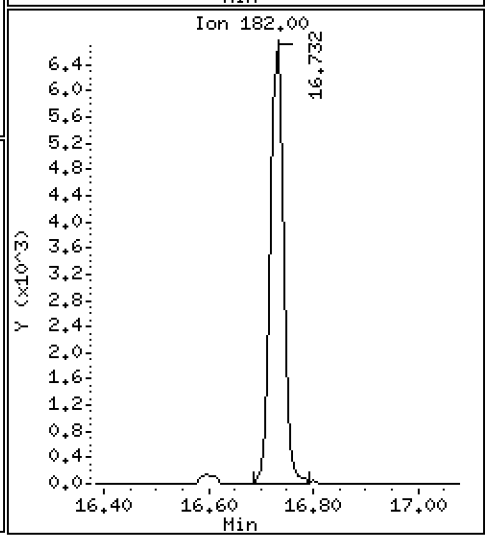












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

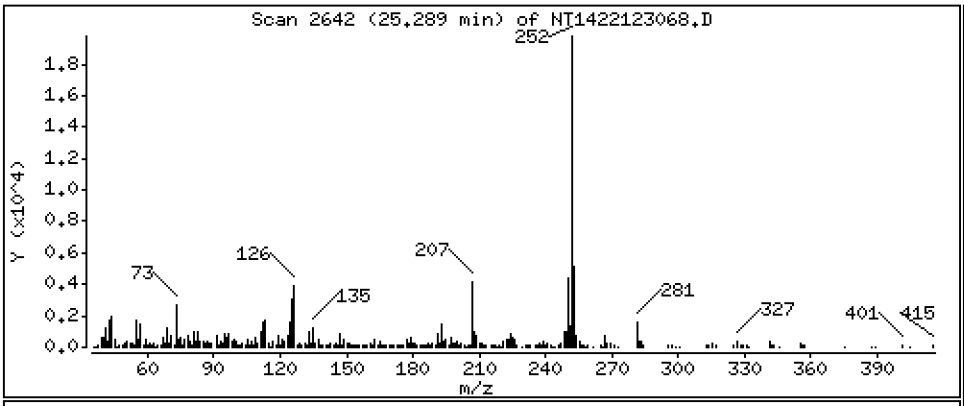
Operator: VTS

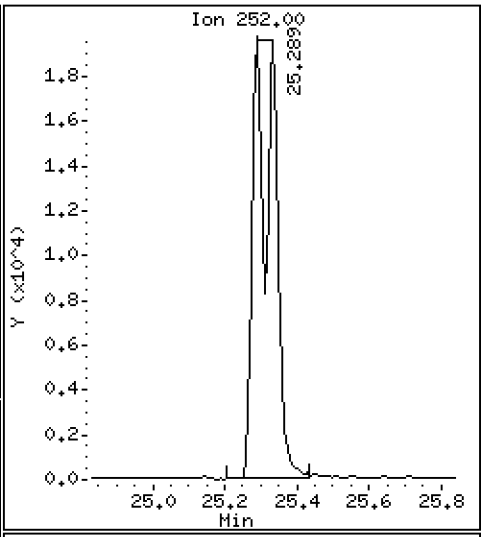
Column phase: ZB-5msi

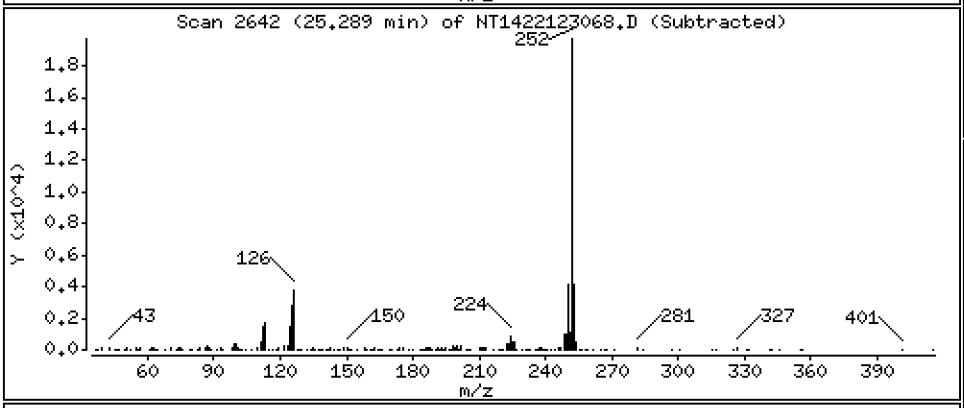
Column diameter: 0.25

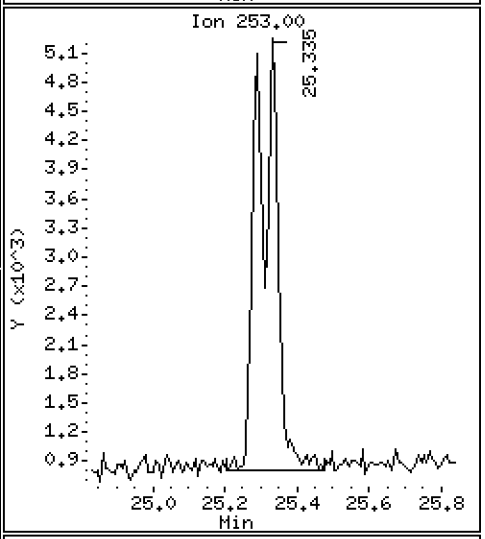
187 Total Benzofluoranthenes

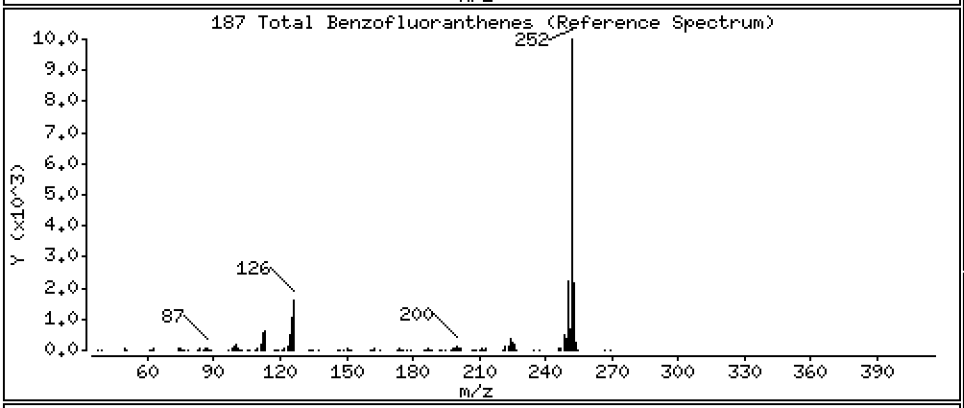
Concentration: 1.127 ug/mL

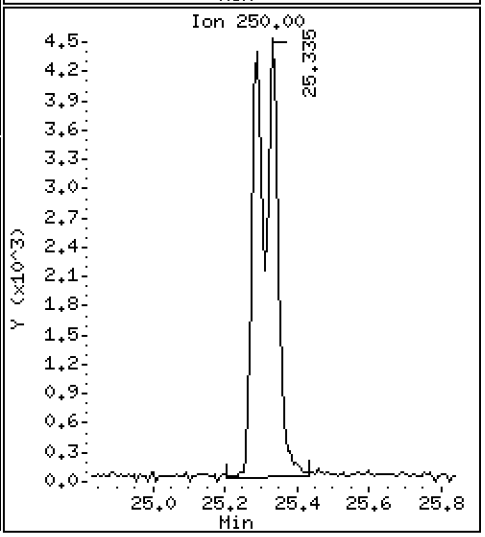


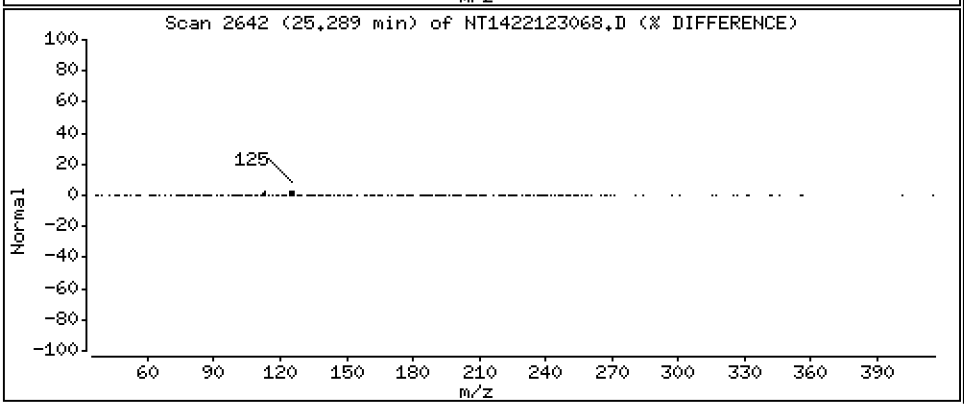












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

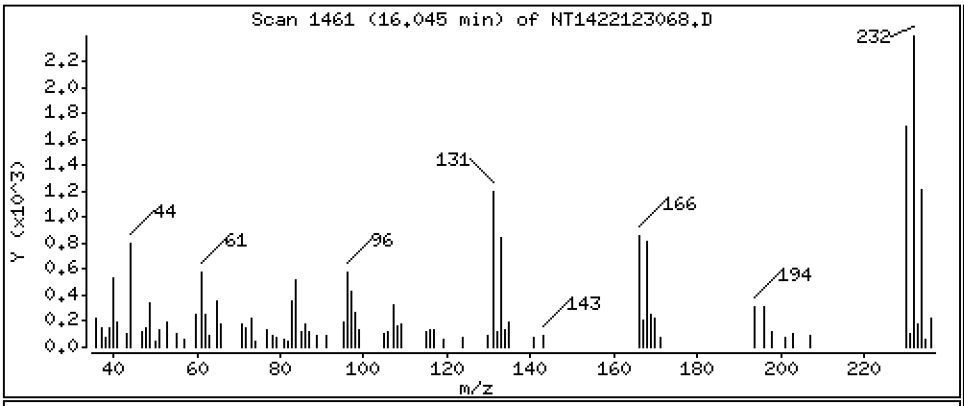
Operator: VTS

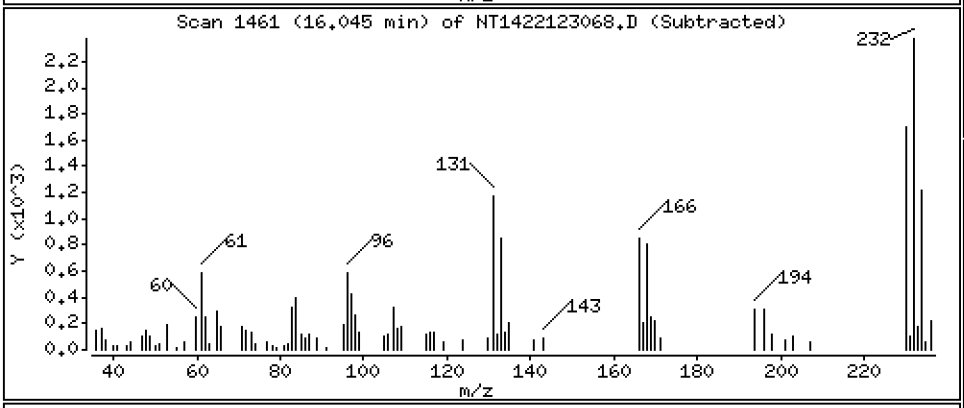
Column phase: ZB-5msi

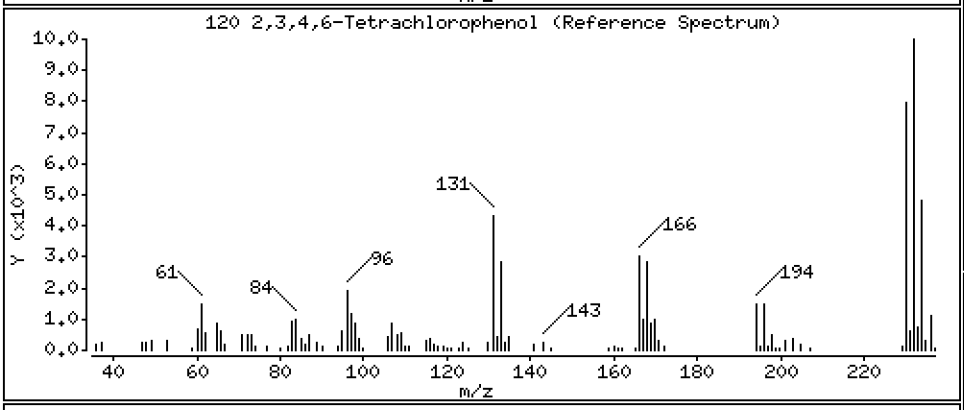
Column diameter: 0.25

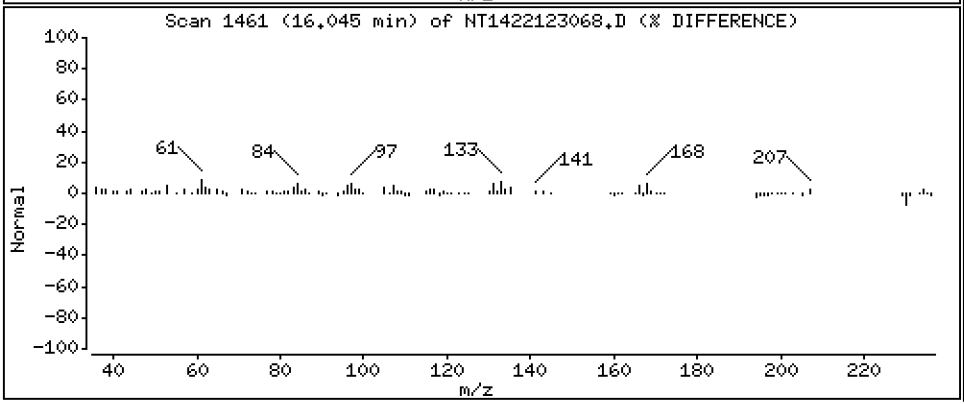
120 2,3,4,6-Tetrachlorophenol

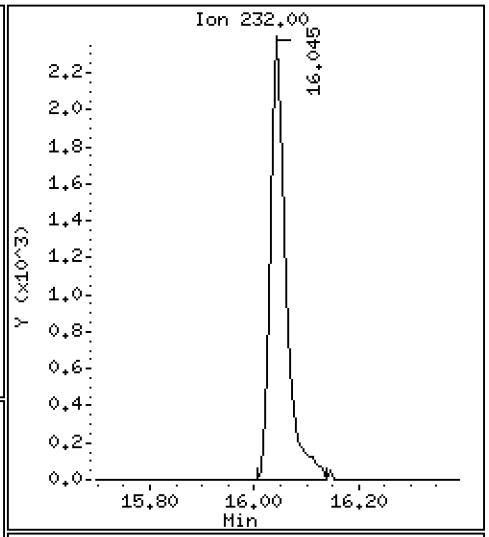
Concentration: 0.3210 ug/mL

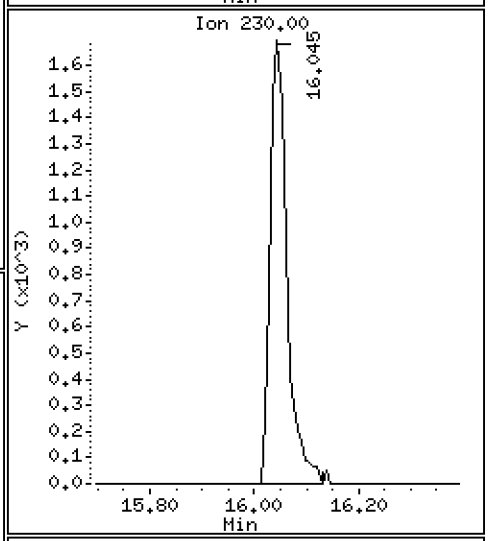


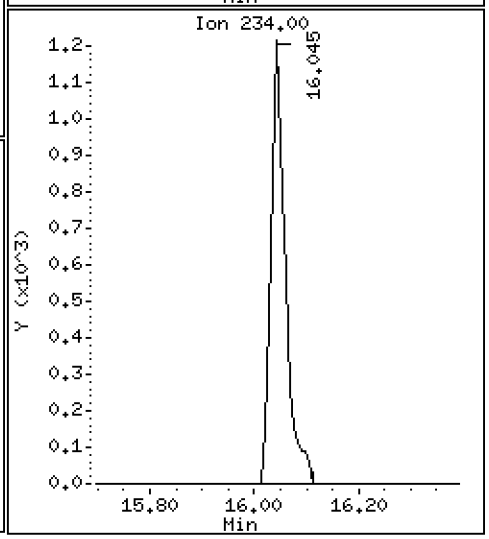












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Lab Smp Id: SKL0355-LCV4
Inj Date : 01-JAN-2023 00:42 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-LCV4
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.919	6.919	(0.755)	26679	0.73231	0.7323
$	2 Phenol-d5	99	8.519	8.519	(0.930)	29740	0.66056	0.6606
	3 Phenol	94	8.542	8.542	(0.932)	24851	0.48577	0.4858
$	5 2-Chlorophenol-d4	132	8.797	8.797	(0.960)	26376	0.69756	0.6976
	4 Bis(2-Chloroethyl)ether	93	8.696	8.696	(0.949)	16971	0.48157	0.4816
	6 2-Chlorophenol	128	8.828	8.827	(0.964)	21442	0.51635	0.5163
	7 1,3-Dichlorobenzene	146	9.098	9.098	(0.993)	21932	0.49807	0.4981
*	8 1,4-Dichlorobenzene-d4	152	9.160	9.160	(1.000)	113715	4.00000	
	9 1,4-Dichlorobenzene	146	9.191	9.191	(1.003)	21144	0.50685	0.5068
$	10 1,2-Dichlorobenzene-d4	152	9.525	9.525	(1.040)	12409	0.48016	0.4802
	12 1,2-Dichlorobenzene	146	9.548	9.556	(1.042)	20298	0.49614	0.4961
	11 Benzyl alcohol	108	9.440	9.440	(1.030)	8811	0.38688	0.3869
	14 2,2'-oxybis(1-Chloropropane)	121	9.735	9.735	(1.063)	5608	0.47279	0.4728(M)
	13 2-Methylphenol	108	9.665	9.665	(1.055)	18106	0.48706	0.4871
	17 Hexachloroethane	117	10.154	10.154	(1.108)	6330	0.41257	0.4126
	16 N-Nitroso-di-n-propylamine	70	9.991	9.998	(1.091)	11492	0.50748	0.5075
	15 4-Methylphenol	108	9.937	9.936	(1.085)	18249	0.46535	0.4654
$	18 Nitrobenzene-d5	82	10.262	10.262	(0.880)	16843	0.48307	0.4831
	19 Nitrobenzene	77	10.293	10.301	(0.882)	16249	0.46925	0.4693
	20 Isophorone	82	10.751	10.751	(0.922)	19966	0.45240	0.4524
	21 2-Nitrophenol	139	10.938	10.937	(0.938)	10030	0.47315	0.4732
	22 2,4-Dimethylphenol	107	10.992	10.992	(0.942)	35304	0.97686	0.9769
	23 Bis(2-Chloroethoxy)methane	93	11.178	11.186	(0.958)	16990	0.49487	0.4949
	24 Benzoic acid	105	11.093	11.209	(0.951)	9855	0.44771	0.4477
	25 2,4-Dichlorophenol	162	11.395	11.395	(0.977)	29244	0.95995	0.9599
	26 1,2,4-Trichlorobenzene	180	11.581	11.581	(0.993)	16108	0.48901	0.4890
*	27 Naphthalene-d8	136	11.666	11.673	(1.000)	412900	4.00000	
	28 Naphthalene	128	11.712	11.712	(1.004)	49324	0.48541	0.4854
	29 4-Chloroaniline	127	11.835	11.835	(1.015)	37233	0.88851	0.8885
	30 Hexachlorobutadiene	225	12.075	12.075	(1.035)	7808	0.47774	0.4777
	31 4-Chloro-3-methylphenol	107	12.818	12.810	(1.099)	27298	0.94955	0.9495
	32 2-Methylnaphthalene	142	13.120	13.120	(1.125)	34703	0.46559	0.4656
	33 Hexachlorocyclopentadiene	237	13.584	13.584	(0.888)	2182	0.13732	0.1373

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
34	2,4,6-Trichlorophenol	196	13.747	13.739	(0.898)	15331	0.87384	0.8738
35	2,4,5-Trichlorophenol	196	13.832	13.816	(0.904)	16238	0.80193	0.8019
$ 36	2-Fluorobiphenyl	172	13.901	13.901	(0.908)	33358	0.47200	0.4720
37	2-Chloronaphthalene	162	14.118	14.118	(0.923)	28915	0.48093	0.4809
38	2-Nitroaniline	65	14.373	14.373	(0.939)	15604	0.98717	0.9872
39	Dimethylphthalate	163	14.799	14.799	(0.967)	29378	0.49559	0.4956
40	Acenaphthylene	152	14.993	14.993	(0.980)	45647	0.49793	0.4979
41	2,6-Dinitrotoluene	165	14.938	14.938	(0.976)	11674	0.87263	0.8726
* 42	Acenaphthene-d10	164	15.302	15.310	(1.000)	210199	4.00000	
43	3-Nitroaniline	138	15.225	15.225	(0.995)	13799	0.84865	0.8487
44	Acenaphthene	153	15.372	15.371	(1.005)	28173	0.49548	0.4955
45	2,4-Dinitrophenol	184	15.457	15.441	(1.010)	140	0.01232	0.01232(M)
46	Dibenzofuran	168	15.704	15.704	(1.026)	42021	0.49282	0.4928
47	4-Nitrophenol	109	15.611	15.557	(1.020)	5233	0.67188	0.6719(M)
48	2,4-Dinitrotoluene	165	15.750	15.750	(1.029)	14281	0.77805	0.7780
50	Diethylphthalate	149	16.261	16.268	(1.063)	46077	0.57187	0.5719
49	Fluorene	166	16.415	16.423	(1.073)	44261	0.48795	0.4880
51	4-Chlorophenyl-phenylether	204	16.407	16.407	(1.072)	22749	0.51226	0.5123
52	4-Nitroaniline	138	16.508	16.500	(1.079)	16284	0.83129	0.8313
53	4,6-Dinitro-2-methylphenol	198	16.600	16.600	(0.904)	5489	0.38256	0.3826
54	N-Nitrosodiphenylamine	169	16.654	16.654	(0.907)	29997	0.51151	0.5115
$ 55	2,4,6-Tribromophenol	330	16.955	16.955	(1.108)	5302	0.53750	0.5375
56	4-Bromophenyl-phenylether	248	17.410	17.410	(0.949)	10508	0.47320	0.4732
57	Hexachlorobenzene	284	17.734	17.734	(0.966)	11873	0.48722	0.4872
58	Pentachlorophenol	266	18.098	18.090	(0.986)	1094	0.10366	0.1037
* 59	Phenanthrene-d10	188	18.354	18.361	(1.000)	341756	4.00000	
60	Phenanthrene	178	18.408	18.408	(1.003)	43053	0.48317	0.4832
61	Anthracene	178	18.501	18.500	(1.008)	41243	0.48484	0.4848
62	Carbazole	167	18.833	18.825	(1.026)	38498	0.46815	0.4681
63	Di-n-butylphthalate	149	19.615	19.614	(1.069)	44555	0.47888	0.4789
64	Fluoranthene	202	20.791	20.791	(0.889)	44357	0.47195	0.4720
65	Pyrene	202	21.216	21.216	(0.907)	47545	0.48113	0.4811
$ 66	Terphenyl-d14	244	21.495	21.495	(0.919)	31626	0.45136	0.4514
67	Butylbenzylphthalate	149	22.408	22.408	(0.958)	19630	0.52609	0.5261
68	Benzo(a)anthracene	228	23.368	23.376	(0.999)	46031	0.52057	0.5206
* 69	Chrysene-d12	240	23.399	23.399	(1.000)	291897	4.00000	
70	3,3'-Dichlorobenzidine	252	23.322	23.322	(0.997)	44420	1.64100	1.641
71	Chrysene	228	23.446	23.446	(1.002)	41769	0.50008	0.5001
72	bis(2-Ethylhexyl)phthalate	149	23.430	23.430	(0.959)	26412	0.51360	0.5136
* 134	Di-n-octylphthalate-d4	153	24.421	24.421	(1.000)	463051	4.00000	
73	Di-n-octylphthalate	149	24.429	24.429	(1.000)	54465	0.49000	0.4900
74	Benzo(b)fluoranthene	252	25.288	25.296	(0.969)	39255	0.54365	0.5437
75	Benzo(k)fluoranthene	252	25.335	25.335	(0.971)	41907	0.57023	0.5702
76	Benzo(a)pyrene	252	25.962	25.970	(0.995)	31790	0.52962	0.5296
* 77	Perylene-d12	264	26.086	26.086	(1.000)	229756	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.853	28.838	(1.106)	19627	0.28764	0.2876
79	Dibenzo(a,h)anthracene	278	28.869	28.853	(1.107)	17106	0.29501	0.2950
80	Benzo(g,h,i)perylene	276	29.661	29.653	(1.137)	13763	0.24077	0.2408
90	N-Nitrosodimethylamine	74	4.718	4.718	(0.515)	25361	1.01079	1.011
91	Aniline	93	8.604	8.611	(0.939)	48364	0.97094	0.9709
93	Benzidine	184	21.023	21.015	(0.898)	31719	0.88529	0.8853
103	Pyridine	79	4.757	4.741	(0.519)	40010	0.50184	0.5018
105	1-methylnaphthalene	142	13.336	13.344	(1.143)	33959	0.47418	0.4742
111	Azobenzene (1,2-DP-Hydrazine)	77	16.731	16.731	(1.093)	41634	0.53337	0.5334

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.288	25.335	(0.969)	78652	1.12670	1.127
120 2,3,4,6-Tetrachlorophenol	232	16.044	16.044	(1.048)	4758	0.32105	0.3210

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123068.D
Lab Smp Id: SKL0355-LCV4
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Misc Info:

Calibration Date: 31-DEC-2022
Calibration Time: 23:30
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138755	69378	277510	113715	-18.05
27 Naphthalene-d8	501723	250862	1003446	412900	-17.70
42 Acenaphthene-d10	275234	137617	550468	210199	-23.63
59 Phenanthrene-d10	440085	220043	880170	341756	-22.34
69 Chrysene-d12	384795	192398	769590	291897	-24.14
134 Di-n-octylphthala	674530	337265	1349060	463051	-31.35
77 Perylene-d12	336665	168333	673330	229756	-31.76

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	-0.07
42 Acenaphthene-d10	15.31	14.81	15.81	15.30	-0.05
59 Phenanthrene-d10	18.36	17.86	18.86	18.35	-0.04
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.42	0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123068.D

Lab ID: SKL0355-LCV4
nt14.i, 20221230C.b\ABN.m,   01-JAN-2023 00:42

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.951	0.960	-0.0093	Benzoic acid

RRT check based on Ccal File: NT1422123066.D

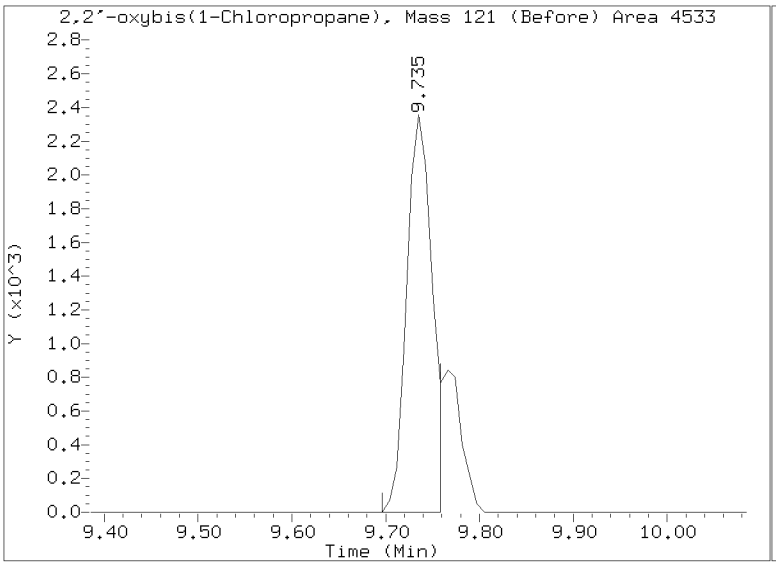
On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

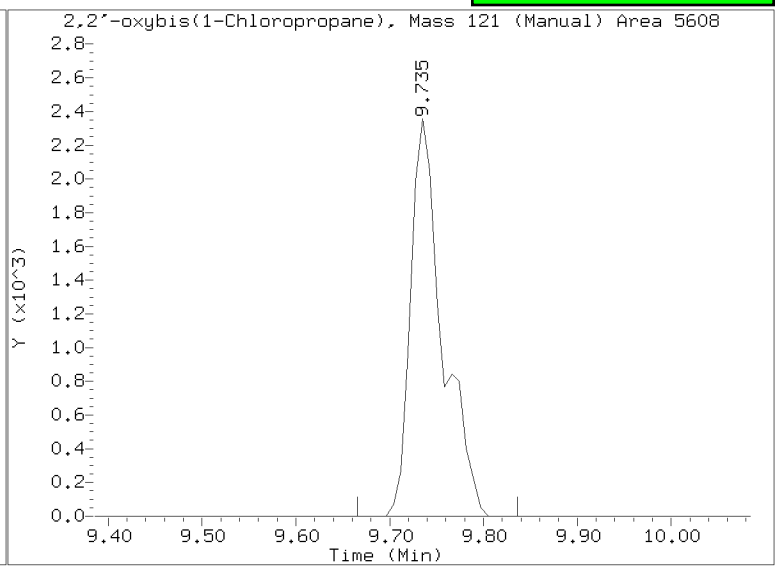
* Only compounds listed in the work order have been verified by the analyst *

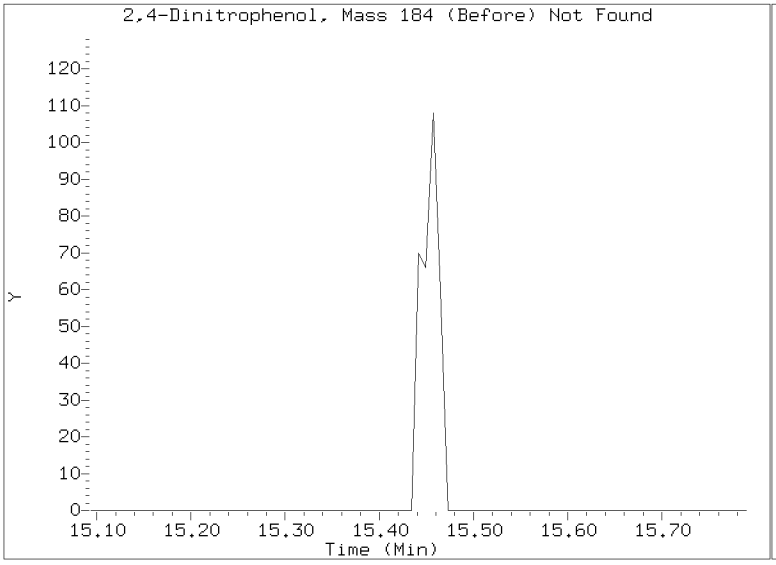
Quant Ion Manual Peak Adjustment Report

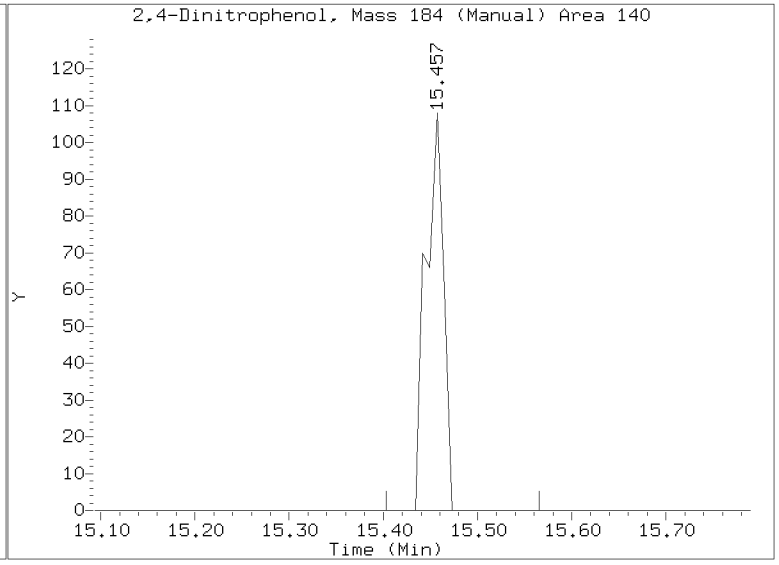
Datafile: //target/share/chem3/nt14.i/20221230C.b/NT1422123068.D
Injection Date: 01-JAN-2023 00:42
Lab ID:SKL0355-LCV4 Client ID:
Report Date: 01/04/2023 14:23

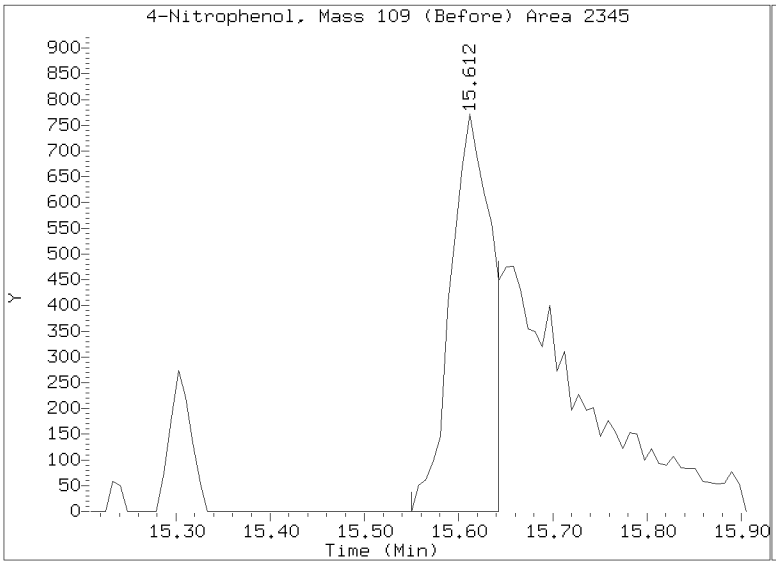
REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM

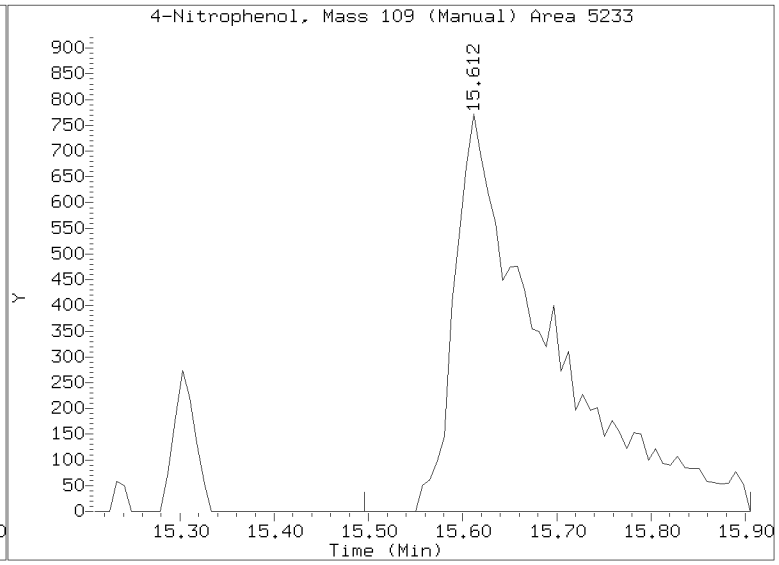












Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0355	Instrument:	NT14
		Calibration:	FL00066

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ABN 0.2	SKL0355-LCV3	NT1422123067.D	NA	01/01/23 00:06
ABN 0.5	SKL0355-LCV4	NT1422123068.D	NA	01/01/23 00:42
Blank	BKL0193-BLK1	NT1422123069.D	Solid	01/01/23 01:18
LCS	BKL0193-BS1	NT1422123070.D	Solid	01/01/23 01:53
LCS Dup	BKL0193-BSD1	NT1422123071.D	Solid	01/01/23 02:29
Reference	BKL0193-SRM1	NT1422123072.D	Solid	01/01/23 03:05
ZZZZZ	22L0104-01	NT1422123073.D	Solid	01/01/23 03:41
ZZZZZ	22L0104-02	NT1422123074.D	Solid	01/01/23 04:17
LDW22-SS823	22L0136-01	NT1422123075.D	Solid	01/01/23 04:53
LDW22-SS786	22L0136-08	NT1422123076.D	Solid	01/01/23 05:29
LDW22-SS766	22L0136-09	NT1422123077.D	Solid	01/01/23 06:05
LDW22-SS766	BKL0193-MS1	NT1422123078.D	Solid	01/01/23 06:41
LDW22-SS766	BKL0193-MSD1	NT1422123079.D	Solid	01/01/23 07:17
LDW22-SS771	22L0136-10	NT1422123080.D	Solid	01/01/23 07:53
LDW22-SS771-FD	22L0136-11	NT1422123081.D	Solid	01/01/23 08:29
LDW22-SS772	22L0136-12	NT1422123082.D	Solid	01/01/23 09:05
ABN 5	SKL0355-CCV1	NT1422123083.D	NA	01/01/23 09:41
MS Tune	SKL0355-TUN1	NT1422123001.D	NA	12/30/22 07:53
CAL 5	SKL0355-CAL5	NT1422123002.D	NA	12/30/22 08:06
CAL 20	SKL0355-CAL7	NT1422123003.D	NA	12/30/22 08:42
CAL 0.2	SKL0355-CAL1	NT1422123004.D	NA	12/30/22 09:18
CAL 10	SKL0355-CAL6	NT1422123005.D	NA	12/30/22 09:54
CAL 0.5	SKL0355-CAL2	NT1422123006.D	NA	12/30/22 10:30
CAL 2.5	SKL0355-CAL4	NT1422123007.D	NA	12/30/22 11:07
CAL 1.0	SKL0355-CAL3	NT1422123008.D	NA	12/30/22 11:43
SICV1	SKL0355-ICV1	NT1422123011.D	NA	12/30/22 13:31
Initial Cal Blank	SKL0355-ICB1	NT1422123012.D	NA	12/30/22 14:08
ABN 5	SKL0355-ICV2	NT1422123014.D	NA	12/30/22 15:53
ZZZZZ	22K0241-02RE1	NT1422123038.D	Solid	12/31/22 06:20

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0355	Instrument:	NT14
		Calibration:	FL00066

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	22K0399-08RE1	NT1422123039.D	Solid	12/31/22 06:56
ZZZZZ	22K0399-19RE1	NT1422123040.D	Solid	12/31/22 07:32
ZZZZZ	22K0399-22RE1	NT1422123041.D	Solid	12/31/22 08:08
ZZZZZ	22K0399-29RE1	NT1422123042.D	Solid	12/31/22 08:44
ABN 5	SKL0355-ICV4	NT1422123049.D	NA	12/31/22 13:17
ABN 0.2	SKL0355-LCV1	NT1422123051.D	NA	12/31/22 14:29
ABN 0.5	SKL0355-LCV2	NT1422123052.D	NA	12/31/22 15:05
ZZZZZ	22K0021-01RE1	NT1422123060.D	Solid	12/31/22 19:54
ZZZZZ	22K0045-01RE1	NT1422123061.D	Solid	12/31/22 20:30
ZZZZZ	22K0045-02RE1	NT1422123062.D	Solid	12/31/22 21:06
ZZZZZ	22K0045-03RE1	NT1422123063.D	Solid	12/31/22 21:42
ZZZZZ	22K0045-04RE1	NT1422123064.D	Solid	12/31/22 22:18
ZZZZZ	22K0045-05RE1	NT1422123065.D	Solid	12/31/22 22:54
ABN 5	SKL0355-ICV5	NT1422123066.D	NA	12/31/22 23:30

Printed: 1/4/2023 8:44:50AM

ANALYSIS SEQUENCE

SKL0355

Instrument: NT14 Element Column ID: K005461
Calibration ID: FL00066 Tune File: 221222.U
EM Voltage: 1647

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SKL0355-TUN1	MS Tune	QC		1	K004775		12/30/2022 07:53	NT1422123001.D	VTS	
SKL0355-CAL5	CAL 5	QC		2	K011109	K010831	12/30/2022 08:06	NT1422123002.D	VTS	
SKL0355-CAL7	CAL 20	QC		3	K011111	K010831	12/30/2022 08:42	NT1422123003.D	VTS	
SKL0355-CAL1	CAL 0.2	QC		4	K011105	K010831	12/30/2022 09:18	NT1422123004.D	VTS	
SKL0355-CAL6	CAL 10	QC		5	K011110	K010831	12/30/2022 09:54	NT1422123005.D	VTS	
SKL0355-CAL2	CAL 0.5	QC		6	K011106	K010831	12/30/2022 10:30	NT1422123006.D	VTS	
SKL0355-CAL4	CAL 2.5	QC		7	K011108	K010831	12/30/2022 11:07	NT1422123007.D	VTS	
SKL0355-CAL3	CAL 1.0	QC		8	K011107	K010831	12/30/2022 11:43	NT1422123008.D	VTS	
SKL0355-ICV1	SICV1	QC		9	K010066	K010831	12/30/2022 13:31	NT1422123011.D	VTS	
SKL0355-ICB1	Initial Cal Blank	QC		10	K005156	K010831	12/30/2022 14:08	NT1422123012.D	VTS	
SKL0355-ICV2	ABN 5	QC		11	K011109	K010831	12/30/2022 15:53	NT1422123014.D	VTS	
SKL0355-ICV3	ABN 5	QC		12	K011109	K010831				
22K0241-02RE1	HL-20221110	(20ug/kg solid or 0.2ug/L l	D 03	13		K010831	12/31/2022 06:20	NT1422123038.D	VTS	Added 1/3/2023 by VTS
22K0399-08RE1	DM-15-S-Dup	(20ug/kg solid or 0.2ug/L l	B 01	14		K010831	12/31/2022 06:56	NT1422123039.D	VTS	Added 12/24/2022 by VTS
22K0399-19RE1	DM-20-C-0-1	(20ug/kg solid or 0.2ug/L l	B 01	15		K010831	12/31/2022 07:32	NT1422123040.D	VTS	Added 12/23/2022 by VTS
22K0399-22RE1	DM-11-C-1-3	(20ug/kg solid or 0.2ug/L l	B 01	16		K010831	12/31/2022 08:08	NT1422123041.D	VTS	Added 12/23/2022 by VTS
22K0399-29RE1	DM-08-C-1-3	(20ug/kg solid or 0.2ug/L l	B 01	17		K010831	12/31/2022 08:44	NT1422123042.D	VTS	Added 12/31/2022 by VTS
SKL0355-ICV4	ABN 5	QC		18	K011109	K010831				
22K0021-01RE1	EWWST9-110122	(20ug/kg solid or 0.2ug/L l	A 02	19		K010831				Added 12/20/2022 by VTS
22K0045-01RE1	304509-01	(20ug/kg solid or 0.2ug/L l	A 02	20		K010831				Added 12/20/2022 by VTS
22K0045-02RE1	304509-02	(20ug/kg solid or 0.2ug/L l	A 02	21		K010831				Added 12/20/2022 by VTS
22K0045-03RE1	304509-03	(20ug/kg solid or 0.2ug/L l	A 02	22		K010831				Added 12/20/2022 by VTS

Printed: 1/4/2023 8:44:50AM

ANALYSIS SEQUENCE

SKL0355

Instrument: NT14 Element Column ID: K005461
Calibration ID: FL00066 Tune File: 221222.U
EM Voltage: 1647

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
22K0045-04RE1	304509-04	(20ug/kg solid or 0.2ug/L l	A 02	23		K010831				Added 12/20/2022 by VTS
22K0045-05RE1	304509-05	(20ug/kg solid or 0.2ug/L l	A 02	24		K010831				Added 12/20/2022 by VTS
SKL0355-ICV5	ABN 5	QC		25	K011109	K010831				
BKL0193-BLK1	Blank	QC		26		K010831				
BKL0193-BS1	LCS	QC		27		K010831				
BKL0193-BSD1	LCS Dup	QC		28		K010831				
BKL0193-SRM1	Reference	QC		29		K010831				
BKL0193-MS1	Matrix Spike	QC		30		K010831				
BKL0193-MSD1	Matrix Spike Dup	QC		31		K010831				
22L0104-01	LDW22-SS773	(20ug/kg solid or 0.2ug/L l	B 02	32		K010831				
22L0104-02	LDW22-SS774	(20ug/kg solid or 0.2ug/L l	B 02	33		K010831				If started finish and hold extract
22L0136-01	LDW22-SS823	(20ug/kg solid or 0.2ug/L l	A 02	34		K010831				
22L0136-08	LDW22-SS786	(20ug/kg solid or 0.2ug/L l	A 02	35		K010831				
22L0136-09	LDW22-SS766	(20ug/kg solid or 0.2ug/L l	A 02	36		K010831				
22L0136-10	LDW22-SS771	(20ug/kg solid or 0.2ug/L l	A 02	37		K010831				
22L0136-11	LDW22-SS771-FD	(20ug/kg solid or 0.2ug/L l	A 02	38		K010831				
22L0136-12	LDW22-SS772	(20ug/kg solid or 0.2ug/L l	A 02	39		K010831				
SKL0355-CCV1	ABN 5	QC		40	K011109	K010834				

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230.b

	Time	Filename	LabID	ClientId	DF																			
1	0753	NT1422123001.D	SKL0355-TUN1		1	|NO ISTDS FOUND||																		
2	0806	NT1422123002.D	SKL0355-CAL5		1	| 9.18	151013	||11.69	553510	||15.33	305411	||18.38	491708	||23.42	424740	||26.10	395150	||24.44	684951 |					
3	0842	NT1422123003.D	SKL0355-CAL7		1	| 9.18	143300	||11.70	507556	||15.33	290278	||18.38	423275	||23.42	399899	||26.11	359748	||24.44	687276 |					
4	0918	NT1422123004.D	SKL0355-CAL1		1	| 9.18	156948	||11.69	570074	||15.33	297614	||18.37	498496	||23.41	404183	||26.10	371728	||24.44	540769 |					
5	0954	NT1422123005.D	SKL0355-CAL6		1	| 9.18	144388	||11.69	520524	||15.33	291597	||18.38	457445	||23.42	408635	||26.10	373712	||24.44	652062 |					
6	1030	NT1422123006.D	SKL0355-CAL2		1	| 9.18	156057	||11.69	571985	||15.33	301808	||18.37	495600	||23.41	403440	||26.10	378046	||24.44	538411 |					
7	1107	NT1422123007.D	SKL0355-CAL4		1	| 9.18	144333	||11.69	532256	||15.33	287473	||18.37	465065	||23.41	401380	||26.10	368275	||24.44	554407 |					
8	1143	NT1422123008.D	SKL0355-CAL3		1	| 9.18	148086	||11.69	558364	||15.33	288519	||18.37	472142	||23.41	394732	||26.10	370479	||24.44	526757 |					
9	1219	NT1422123009.D	SKL0356-CAL1		1	| 9.18	146141	||11.69	533259	||15.33	275387	||18.37	457503	||23.41	370157	||26.10	345259	||24.44	434329 |					
10	1255	NT1422123010.D			1	| 9.18	150179	||11.69	554597	||15.33	282107	||18.37	470125	||23.41	374625	||26.10	352812	||24.44	438400 |					
11	1331	NT1422123011.D	SKL0355-ICV1		1	| 9.18	145276	||11.69	542519	||15.33	292314	||18.37	478070	||23.42	412507	||26.10	379639	||24.44	590464 |					
12	1408	NT1422123012.D	SKL0355-ICB1		1	| 9.18	174509	||11.69	641934	||15.33	335436	||18.37	560033	||23.41	444498	||26.10	423100	||24.44	541261 |					
13	1516	NT1422123013.D	NOT USING		1	| 9.18	146864	||11.69	550707	||15.33	275006	||18.37	643649	||23.42	583196	||26.11	599166	||24.44	900001 |					
14	1553	NT1422123014.D	SKL0355-ICV2		1	| 9.18	130476	||11.69	484478	||15.33	261445	||18.37	412822	||23.41	349122	||26.10	327130	||24.44	522046 |					
15	1629	NT1422123015.D			1	| 9.18	132066	||11.69	499724	||15.33	257503	||18.37	413048	||23.41	335724	||26.09	308207	||24.44	434247 |					
16	1705	NT1422123016.D	BKK0733-BLK1		1	| 9.18	126906	||11.69	483124	||15.32	256877	||18.37	444495	||23.41	333261	||26.09	320178	||24.44	495841 |					
17	1741	NT1422123017.D	BKK0733-BS1		1	| 9.18	124003	||11.69	465208	||15.33	251001	||18.37	418062	||23.41	342657	||26.10	324681	||24.44	577170 |					
18	1818	NT1422123018.D	BKK0733-BSD1		1	| 9.18	124976	||11.69	467689	||15.33	258016	||18.37	428907	||23.41	356316	||26.09	340564	||24.44	643011 |					
19	1854	NT1422123019.D	22K0399-01		1	| 9.18	121953	||11.69	458530	||15.32	242934	||18.37	396367	||23.41	291013	||26.10	344522	||24.44	561675 |					
20	1930	NT1422123020.D	BKK0733-MS1		1	| 9.18	115884	||11.69	434586	||15.33	230677	||18.38	374636	||23.42	295274	||26.11	347439	||24.44	560195 |					

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230.b

	Time	Filename	LabID	ClientId	DF																
21	2006	NT1422123021.D	BKK0733-MSD1		1	9.18	115038	11.69	422786	15.33	231453	18.38	377450	23.42	296619	26.11	342779	24.44	551214		
22	2042	NT1422123022.D	22K0399-07		1	9.18	118717	11.69	440463	15.33	235964	18.38	394316	23.42	287701	26.11	334549	24.44	535369		
23	2119	NT1422123023.D	22K0399-08		1	9.18	119344	11.69	442541	15.33	234795	18.38	389401	23.42	283797	26.11	329236	24.44	507254		
24	2155	NT1422123024.D	22K0399-31		1	9.18	120549	11.69	456717	15.33	235065	18.38	385218	23.42	290921	26.12	332471	24.44	522799		
25	2231	NT1422123025.D	22K0399-43		1	9.18	115488	11.69	438973	15.33	230528	18.38	372346	23.42	316873	26.13	312137	24.45	540998		
26	2307	NT1422123026.D	22K0399-44		1	9.18	114799	11.69	429093	15.33	225512	18.38	375444	23.42	344033	26.14	334179	24.45	548267		
27	2343	NT1422123027.D	BKK0733-SRM1		1	9.18	116509	11.69	420160	15.33	224093	18.38	385101	23.42	308820	26.10	324504	24.44	539884		

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230.b

Instrument: nt14.i Date: 30-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
0753	NT1422123001.D	SKL0355-TUN1	1	NO MANUAL INTEGRATION
0806	NT1422123002.D	SKL0355-CAL5	1	2,2'-oxybis(1-Chloropropane), Benzo(g,h,i)perylene,
0842	NT1422123003.D	SKL0355-CAL7	1	2,2'-oxybis(1-Chloropropane),
0918	NT1422123004.D	SKL0355-CAL1	1	2,2'-oxybis(1-Chloropropane), Benzoic acid,
0954	NT1422123005.D	SKL0355-CAL6	1	2,2'-oxybis(1-Chloropropane),
1030	NT1422123006.D	SKL0355-CAL2	1	2,2'-oxybis(1-Chloropropane), Benzoic acid,
1107	NT1422123007.D	SKL0355-CAL4	1	2,2'-oxybis(1-Chloropropane),
1143	NT1422123008.D	SKL0355-CAL3	1	2,2'-oxybis(1-Chloropropane),
1219	NT1422123009.D	SKL0356-CAL1	1	NO MANUAL INTEGRATION
1255	NT1422123010.D		1	NO MANUAL INTEGRATION
1331	NT1422123011.D	SKL0355-ICV1	1	NO MANUAL INTEGRATION
1408	NT1422123012.D	SKL0355-ICB1	1	NO MANUAL INTEGRATION
1516	NT1422123013.D		1	NO MANUAL INTEGRATION
1553	NT1422123014.D	SKL0355-ICV2	1	NO MANUAL INTEGRATION
1629	NT1422123015.D		1	NO MANUAL INTEGRATION
1705	NT1422123016.D	BKK0733-BLK1	1	NO MANUAL INTEGRATION
1741	NT1422123017.D	BKK0733-BS1	1	NO MANUAL INTEGRATION

Instrument: nt14.i Date: 30-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
1818	NT1422123018.D	BKK0733-BSD1	1	NO MANUAL INTEGRATION
1854	NT1422123019.D	22K0399-01	1	NO MANUAL INTEGRATION
1930	NT1422123020.D	BKK0733-MS1	1	NO MANUAL INTEGRATION
2006	NT1422123021.D	BKK0733-MSD1	1	NO MANUAL INTEGRATION
2042	NT1422123022.D	22K0399-07	1	NO MANUAL INTEGRATION
2119	NT1422123023.D	22K0399-08	1	NO MANUAL INTEGRATION
2155	NT1422123024.D	22K0399-31	1	NO MANUAL INTEGRATION
2231	NT1422123025.D	22K0399-43	1	NO MANUAL INTEGRATION
2307	NT1422123026.D	22K0399-44	1	NO MANUAL INTEGRATION
2343	NT1422123027.D	BKK0733-SRM1	1	NO MANUAL INTEGRATION

Security Status Report

Date: 04-Jan-2023 08:39

NT1422123001.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123002.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123003.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123004.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123005.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123006.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123007.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123008.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123009.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123010.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123011.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123012.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123013.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123014.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123015.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123016.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123017.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123018.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123019.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123020.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123021.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123022.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123023.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123024.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123025.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123026.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123027.D	Data Locked	van, 04-Jan-2023 08:39

Printed: 1/4/2023 2:49:19PM

ANALYSIS SEQUENCE

SKL0355

Instrument: NT14 Element Column ID: K005461
Calibration ID: FL00066 Tune File: 221222.U
EM Voltage: 1647

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SKL0355-TUN1	MS Tune	QC		1	K004775		12/30/2022 07:53	NT1422123001.D	VTS	
SKL0355-CAL5	CAL 5	QC		2	K011109	K010831	12/30/2022 08:06	NT1422123002.D	VTS	
SKL0355-CAL7	CAL 20	QC		3	K011111	K010831	12/30/2022 08:42	NT1422123003.D	VTS	
SKL0355-CAL1	CAL 0.2	QC		4	K011105	K010831	12/30/2022 09:18	NT1422123004.D	VTS	
SKL0355-CAL6	CAL 10	QC		5	K011110	K010831	12/30/2022 09:54	NT1422123005.D	VTS	
SKL0355-CAL2	CAL 0.5	QC		6	K011106	K010831	12/30/2022 10:30	NT1422123006.D	VTS	
SKL0355-CAL4	CAL 2.5	QC		7	K011108	K010831	12/30/2022 11:07	NT1422123007.D	VTS	
SKL0355-CAL3	CAL 1.0	QC		8	K011107	K010831	12/30/2022 11:43	NT1422123008.D	VTS	
SKL0355-ICV1	SICV1	QC		9	K010066	K010831	12/30/2022 13:31	NT1422123011.D	VTS	
SKL0355-ICB1	Initial Cal Blank	QC		10	K005156	K010831	12/30/2022 14:08	NT1422123012.D	VTS	
SKL0355-ICV2	ABN 5	QC		11	K011109	K010831	12/30/2022 15:53	NT1422123014.D	VTS	
SKL0355-ICV3	ABN 5	QC		12	K011109	K010831				
22K0241-02RE1	HL-20221110	(20ug/kg solid or 0.2ug/L l	D 03	13		K010831	12/31/2022 06:20	NT1422123038.D	VTS	Added 1/3/2023 by VTS
22K0399-08RE1	DM-15-S-Dup	(20ug/kg solid or 0.2ug/L l	B 01	14		K010831	12/31/2022 06:56	NT1422123039.D	VTS	Added 12/24/2022 by VTS
22K0399-19RE1	DM-20-C-0-1	(20ug/kg solid or 0.2ug/L l	B 01	15		K010831	12/31/2022 07:32	NT1422123040.D	VTS	Added 12/23/2022 by VTS
22K0399-22RE1	DM-11-C-1-3	(20ug/kg solid or 0.2ug/L l	B 01	16		K010831	12/31/2022 08:08	NT1422123041.D	VTS	Added 12/23/2022 by VTS
22K0399-29RE1	DM-08-C-1-3	(20ug/kg solid or 0.2ug/L l	B 01	17		K010831	12/31/2022 08:44	NT1422123042.D	VTS	Added 12/31/2022 by VTS
SKL0355-ICV4	ABN 5	QC		18	K011109	K010831	12/31/2022 13:17	NT1422123049.D	VTS	
SKL0355-LCV1	ABN 0.2	QC		19	K011105	K010831	12/31/2022 14:29	NT1422123051.D	VTS	
SKL0355-LCV2	ABN 0.5	QC		20	K011106	K010831	12/31/2022 15:05	NT1422123052.D	VTS	
BKL0091-BLK1	Blank	QC		21		K010831	12/31/2022 16:54	NT1422123055.D	VTS	
BKL0091-BS1	LCS	QC		22		K010831	12/31/2022 17:30	NT1422123056.D	VTS	

ANALYSIS SEQUENCE

SKL0355

Instrument: NT14 Element Column ID: K005461
Calibration ID: FL00066 Tune File: 221222.U
EM Voltage: 1647

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
BKL0091-BSD1	LCS Dup	QC		23		K010831	12/31/2022 18:06	NT1422123057.D	VTS	
22L0029-01	SS-12-01-2022	625 SVOC 0.2ug/L	B 01	24		K010831	12/31/2022 18:42	NT1422123058.D	VTS	version
22L0065-03	304881-10	625 SVOC 0.2ug/L	B 01	25		K010831	12/31/2022 19:18	NT1422123059.D	VTS	Version
22K0021-01RE1	EWWST9-110122	(20ug/kg solid or 0.2ug/L l	A 02	26		K010831	12/31/2022 19:54	NT1422123060.D	VTS	Added 12/20/2022 by VTS
22K0045-01RE1	304509-01	(20ug/kg solid or 0.2ug/L l	A 02	27		K010831	12/31/2022 20:30	NT1422123061.D	VTS	Added 12/20/2022 by VTS
22K0045-02RE1	304509-02	(20ug/kg solid or 0.2ug/L l	A 02	28		K010831	12/31/2022 21:06	NT1422123062.D	VTS	Added 12/20/2022 by VTS
22K0045-03RE1	304509-03	(20ug/kg solid or 0.2ug/L l	A 02	29		K010831	12/31/2022 21:42	NT1422123063.D	VTS	Added 12/20/2022 by VTS
22K0045-04RE1	304509-04	(20ug/kg solid or 0.2ug/L l	A 02	30		K010831	12/31/2022 22:18	NT1422123064.D	VTS	Added 12/20/2022 by VTS
22K0045-05RE1	304509-05	(20ug/kg solid or 0.2ug/L l	A 02	31		K010831	12/31/2022 22:54	NT1422123065.D	VTS	Added 12/20/2022 by VTS
SKL0355-ICV5	ABN 5	QC		32	K011109	K010831	12/31/2022 23:30	NT1422123066.D	VTS	
SKL0355-LCV3	ABN 0.2	QC		33	K011105	K010831	01/01/2023 00:06	NT1422123067.D	VTS	
SKL0355-LCV4	ABN 0.5	QC		34	K011106	K010831	01/01/2023 00:42	NT1422123068.D	VTS	
BKL0193-BLK1	Blank	QC		35		K010831	01/01/2023 01:18	NT1422123069.D	VTS	
BKL0193-BS1	LCS	QC		36		K010831	01/01/2023 01:53	NT1422123070.D	VTS	
BKL0193-BSD1	LCS Dup	QC		37		K010831	01/01/2023 02:29	NT1422123071.D	VTS	
BKL0193-SRM1	Reference	QC		38		K010831	01/01/2023 03:05	NT1422123072.D	VTS	
22L0104-01	LDW22-SS773	(20ug/kg solid or 0.2ug/L l	B 02	39		K010831	01/01/2023 03:41	NT1422123073.D	VTS	
22L0104-02	LDW22-SS774	(20ug/kg solid or 0.2ug/L l	B 02	40		K010831	01/01/2023 04:17	NT1422123074.D	VTS	If started finish and hold extract
22L0136-01	LDW22-SS823	(20ug/kg solid or 0.2ug/L l	A 02	41		K010831	01/01/2023 04:53	NT1422123075.D	VTS	
22L0136-08	LDW22-SS786	(20ug/kg solid or 0.2ug/L l	A 02	42		K010831	01/01/2023 05:29	NT1422123076.D	VTS	
22L0136-09	LDW22-SS766	(20ug/kg solid or 0.2ug/L l	A 02	43		K010831	01/01/2023 06:05	NT1422123077.D	VTS	
BKL0193-MS1	Matrix Spike	QC		44		K010831	01/01/2023 06:41	NT1422123078.D	VTS	

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ANALYSIS SEQUENCE

SKL0355

Instrument: NT14 Element Column ID: K005461
Calibration ID: FL00066 Tune File: 221222.U
EM Voltage: 1647

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
BKL0193-MSD1	Matrix Spike Dup	QC		45		K010831	01/01/2023 07:17	NT1422123079.D	VTS	
22L0136-10	LDW22-SS771	(20ug/kg solid or 0.2ug/L l	A 02	46		K010831	01/01/2023 07:53	NT1422123080.D	VTS	
22L0136-11	LDW22-SS771-FD	(20ug/kg solid or 0.2ug/L l	A 02	47		K010831	01/01/2023 08:29	NT1422123081.D	VTS	
22L0136-12	LDW22-SS772	(20ug/kg solid or 0.2ug/L l	A 02	48		K010831	01/01/2023 09:05	NT1422123082.D	VTS	
SKL0355-CCV1	ABN 5	QC		49	K011109	K010834	01/01/2023 09:41	NT1422123083.D	VTS	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230A.b

	Time	Filename	LabID	ClientId	DF	
1	0019	NT1422123028.D	SKL0355-ICV2		1	| 9.18 139712||11.69 509927||15.33 279568||18.38 444668||23.42 371784||26.10 386160||24.44 654073|
2	0055	NT1422123029.D	SKL0356-ICV2		1	| 9.18 135477||11.69 503025||15.33 259166||18.37 415796||23.41 334927||26.10 348615||24.44 562504|
3	0131	NT1422123030.D	BKK0560-BLK2		1	|11.69 1368||15.33 337||23.86 58||24.43 86|
4	0207	NT1422123031.D	BKK0560-BS2		1	|15.33 408||24.44 248|
5	0243	NT1422123032.D	BKK0560-BSD2		1	|15.32 355||24.41 132|
6	0320	NT1422123033.D	22K0212-01		1	|18.37 113||24.44 52|
7	0356	NT1422123034.D	22K0299-01 2X		1	| 9.18 66||24.20 49|
8	0432	NT1422123035.D	22K0310-01		1	|18.35 706||24.79 110|
9	0508	NT1422123036.D	BKK0560-MS1		1	|24.87 52|
10	0544	NT1422123037.D	BKK0560-MSD1		1	|NO ISTDS FOUND||
11	0620	NT1422123038.D	22K0241-02RE1		4	| 9.17 121396||11.67 462972||15.29 247816||18.35 397958||23.40 387627||26.10 313553||24.43 659245|
12	0656	NT1422123039.D	22K0399-08RE1		2	| 9.16 163197||11.67 611654||15.30 332237||18.35 559036||23.39 431438||26.08 454922||24.41 747763|
13	0732	NT1422123040.D	22K0399-19RE1		10	| 9.16 139479||11.67 496175||15.30 260663||18.35 447728||23.39 340698||26.08 358481||24.41 585560|
14	0808	NT1422123041.D	22K0399-22RE1		5	| 9.16 139282||11.67 515202||15.29 272578||18.35 446096||23.39 357267||26.08 368491||24.41 604173|
15	0844	NT1422123042.D	22K0399-29RE1		2	| 9.16 153712||11.67 585190||15.30 301218||18.35 479149||23.41 460634||26.13 394133||24.44 610787|
16	0940	NT1422123043.D	BKK0560-BLK2		1	| 9.18 124723||11.68 459190||15.32 231264||18.37 399583||23.41 293112||26.10 289721||24.43 529702|
17	1016	NT1422123044.D	BKK0560-BS2		1	| 9.18 121338||11.68 439511||15.32 229261||18.37 388225||23.41 305397||26.10 293959||24.43 564137|
18	1052	NT1422123045.D			1	| 9.18 115895||11.68 422759||15.32 221759||18.37 374149||23.41 291057||26.09 285161||24.43 525277|
19	1128	NT1422123046.D			1	| 9.18 117710||11.67 436281||15.32 225229||18.36 385966||23.41 283030||26.09 268953||24.43 485056|
20	1204	NT1422123047.D			1	| 9.17 118248||11.67 439268||15.31 226618||18.36 379086||23.41 273873||26.09 271145||24.43 475249|

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230A.b

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    Time   Filename    LabID     ClientId       DF
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21  1240  NT1422123048.D                             1  | 9.17   109898||11.68   403485||15.32   213643||18.37   353486||23.41   273228||26.09   276304||24.43   497312|
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MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230A.b

Instrument: nt14.i Date: 31-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
0019	NT1422123028.D	SKL0355-ICV2	1	2,2'-oxybis(1-Chloropropane),
0055	NT1422123029.D	SKL0356-ICV2	1	NO MANUAL INTEGRATION
0131	NT1422123030.D	BKK0560-BLK2	1	NO MANUAL INTEGRATION
0207	NT1422123031.D	BKK0560-BS2	1	NO MANUAL INTEGRATION
0243	NT1422123032.D	BKK0560-BSD2	1	NO MANUAL INTEGRATION
0320	NT1422123033.D	22K0212-01	1	NO MANUAL INTEGRATION
0356	NT1422123034.D	22K0299-01 2X	1	NO MANUAL INTEGRATION
0432	NT1422123035.D	22K0310-01	1	NO MANUAL INTEGRATION
0508	NT1422123036.D	BKK0560-MS1	1	NO MANUAL INTEGRATION
0544	NT1422123037.D	BKK0560-MSD1	1	NO MANUAL INTEGRATION
0620	NT1422123038.D	22K0241-02RE1	4	2-Methylphenol, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene,
0656	NT1422123039.D	22K0399-08RE1	2	2-Methylphenol,
0732	NT1422123040.D	22K0399-19RE1	10	NO MANUAL INTEGRATION
0808	NT1422123041.D	22K0399-22RE1	5	2-Methylphenol,
0844	NT1422123042.D	22K0399-29RE1	2	Benzo(k)fluoranthene, Dibenzo(a,h)anthracene,
0940	NT1422123043.D	BKK0560-BLK2	1	NO MANUAL INTEGRATION
1016	NT1422123044.D	BKK0560-BS2	1	NO MANUAL INTEGRATION

Instrument: nt14.i Date: 31-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
1052	NT1422123045.D		1	NO MANUAL INTEGRATION
1128	NT1422123046.D		1	NO MANUAL INTEGRATION
1204	NT1422123047.D		1	NO MANUAL INTEGRATION
1240	NT1422123048.D		1	NO MANUAL INTEGRATION

Security Status Report

Date: 04-Jan-2023 14:50

NT1422123028.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123029.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123030.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123031.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123032.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123033.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123034.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123035.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123036.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123037.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123038.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123039.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123040.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123041.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123042.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123043.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123044.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123045.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123046.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123047.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123048.D	Data Locked	van, 04-Jan-2023 14:50

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230B.b

	Time	Filename	LabID	ClientId	DF																			
1	1317	NT1422123049.D	SKL0355-ICV4		1	9.17	134439	11.68	492388	15.32	270679	18.37	429616	23.41	376030	26.09	336225	24.43	634628
2	1353	NT1422123050.D	SKL0356-ICV4		1	9.17	126626	11.67	474047	15.31	242925	18.36	394559	23.41	316434	26.09	278983	24.43	504730
3	1429	NT1422123051.D	SKL0355-LCV1		1	9.17	116397	11.67	425902	15.31	216598	18.36	347572	23.41	288877	26.09	247727	24.43	433122
4	1505	NT1422123052.D	SKL0355-LCV2		1	9.17	120125	11.67	431181	15.31	221457	18.36	356219	23.41	294883	26.09	255506	24.43	439623
5	1542	NT1422123053.D	BKK0560-MSD1		1	9.17	99244	11.67	363071	15.32	194217	18.36	318169	23.41	250764	26.09	239534	24.43	452805
6	1618	NT1422123054.D	SKL0356-CCV1		1	9.17	125371	11.67	466507	15.31	239021	18.36	383047	23.40	322456	26.09	270669	24.42	505735
7	1654	NT1422123055.D	BKL0091-BLK1		1	9.17	99940	11.67	356917	15.31	176772	18.36	298313	23.41	231661	26.09	199476	24.42	354510
8	1730	NT1422123056.D	BKL0091-BS1		1	9.17	99350	11.67	352626	15.31	181758	18.36	289259	23.40	244140	26.09	212744	24.42	391584
9	1806	NT1422123057.D	BKL0091-BSD1		1	9.17	97838	11.67	347207	15.31	180405	18.36	287059	23.40	238168	26.09	211088	24.43	387775
10	1842	NT1422123058.D	22L0029-01		1	9.17	98638	11.67	383631	15.32	183285	18.37	326543	23.41	257753	26.09	243042	24.43	443851
11	1918	NT1422123059.D	22L0065-03		1	9.17	103123	11.67	370933	15.31	191942	18.36	315771	23.40	243416	26.09	230791	24.42	429069
12	1954	NT1422123060.D	22K0021-01RE1		1	9.17	100572	11.67	369922	15.31	198185	18.36	335740	23.42	361646	26.13	299060	24.44	512390
13	2030	NT1422123061.D	22K0045-01RE1		1	9.17	109934	11.67	397551	15.31	204112	18.36	352470	23.41	303836	26.09	277088	24.42	502168
14	2106	NT1422123062.D	22K0045-02RE1		1	9.17	103386	11.67	379073	15.31	195673	18.36	336828	23.40	264182	26.09	259801	24.42	460365
15	2142	NT1422123063.D	22K0045-03RE1		1	9.16	109866	11.67	406488	15.31	210384	18.36	361943	23.40	279423	26.09	266664	24.42	493139
16	2218	NT1422123064.D	22K0045-04RE1		1	9.16	99529	11.67	362743	15.31	191674	18.36	329098	23.40	257260	26.09	249194	24.42	448541
17	2254	NT1422123065.D	22K0045-05RE1		1	9.16	111816	11.67	406931	15.31	217553	18.35	374767	23.40	297381	26.09	286134	24.42	520451

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230B.b

Instrument: nt14.i Date: 31-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
1317	NT1422123049.D	SKL0355-ICV4	1	2,2'-oxybis(1-Chloropropane),
1353	NT1422123050.D	SKL0356-ICV4	1	NO MANUAL INTEGRATION
1429	NT1422123051.D	SKL0355-LCV1	1	2,2'-oxybis(1-Chloropropane), Benzoic acid, 2,4,5-Trichlorophenol, 2,4-Dinitrophenol, 4-Nitrophenol, Pentachlo 2,4,6-Tribromophenol,
1505	NT1422123052.D	SKL0355-LCV2	1	2,2'-oxybis(1-Chloropropane), 2,4-Dinitrophenol, 4-Nitrophenol, Pentachlorophenol,
1542	NT1422123053.D	BKK0560-MSD1	1	NO MANUAL INTEGRATION
1618	NT1422123054.D	SKL0356-CCV1	1	NO MANUAL INTEGRATION
1654	NT1422123055.D	BKL0091-BLK1	1	NO MANUAL INTEGRATION
1730	NT1422123056.D	BKL0091-BS1	1	NO MANUAL INTEGRATION
1806	NT1422123057.D	BKL0091-BSD1	1	NO MANUAL INTEGRATION
1842	NT1422123058.D	22L0029-01	1	Benzoic acid,
1918	NT1422123059.D	22L0065-03	1	NO MANUAL INTEGRATION
1954	NT1422123060.D	22K0021-01RE1	1	Di-n-octylphthalate, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene,
2030	NT1422123061.D	22K0045-01RE1	1	Benzo(a)anthracene,
2106	NT1422123062.D	22K0045-02RE1	1	Benzo(a)anthracene, Benzo(a)pyrene, Benzo(g,h,i)perylene, Total Benzofluoranthenes,
2142	NT1422123063.D	22K0045-03RE1	1	Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene,
2218	NT1422123064.D	22K0045-04RE1	1	Phenol, Benzo(k)fluoranthene, Benzo(a)pyrene, Benzo(g,h,i)perylene, Total Benzofluoranthenes,
2254	NT1422123065.D	22K0045-05RE1	1	Phenol, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene,

Security Status Report

Date: 04-Jan-2023 14:52

NT1422123049.D	Data Locked	van, 04-Jan-2023 14:51
NT1422123050.D	Data Locked	van, 04-Jan-2023 14:51
NT1422123051.D	Data Locked	van, 04-Jan-2023 14:51
NT1422123052.D	Data Locked	van, 04-Jan-2023 14:51
NT1422123053.D	Data Locked	van, 04-Jan-2023 14:51
NT1422123054.D	Data Locked	van, 04-Jan-2023 14:51
NT1422123055.D	Data Locked	van, 04-Jan-2023 14:51
NT1422123056.D	Data Locked	van, 04-Jan-2023 14:51
NT1422123057.D	Data Locked	van, 04-Jan-2023 14:51
NT1422123058.D	Data Locked	van, 04-Jan-2023 14:51
NT1422123059.D	Data Locked	van, 04-Jan-2023 14:51
NT1422123060.D	Data Locked	van, 04-Jan-2023 14:51
NT1422123061.D	Data Locked	van, 04-Jan-2023 14:51
NT1422123062.D	Data Locked	van, 04-Jan-2023 14:51
NT1422123063.D	Data Locked	van, 04-Jan-2023 14:51
NT1422123064.D	Data Locked	van, 04-Jan-2023 14:51
NT1422123065.D	Data Locked	van, 04-Jan-2023 14:51

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230C.b

	Time	Filename	LabID	ClientId	DF																			
1	2330	NT1422123066.D	SKL0355-ICV5		1	9.16	138755	11.67	501723	15.31	275234	18.36	440085	23.40	384795	26.09	336665	24.42	674530					
2	0006	NT1422123067.D	SKL0355-LCV3		1	9.16	109143	11.67	397029	15.31	204214	18.36	329657	23.40	269585	26.09	227797	24.42	449369					
3	0042	NT1422123068.D	SKL0355-LCV4		1	9.16	113715	11.67	412900	15.30	210199	18.35	341756	23.40	291897	26.09	229756	24.42	463051					
4	0118	NT1422123069.D	BKL0193-BLK1		1	9.16	92113	11.67	329342	15.30	165382	18.35	271589	23.40	203703	26.09	177895	24.42	341255					
5	0153	NT1422123070.D	BKL0193-BS1		1	9.16	84612	11.67	308541	15.30	159985	18.35	260655	23.40	212958	26.08	183421	24.42	356784					
6	0229	NT1422123071.D	BKL0193-BSD1		1	9.16	84823	11.67	309397	15.30	158920	18.35	257888	23.40	212537	26.08	179497	24.41	355260					
7	0305	NT1422123072.D	BKL0193-SRM1		1	9.16	86260	11.67	315083	15.30	159935	18.35	269812	23.40	210765	26.08	179115	24.41	355122					
8	0341	NT1422123073.D	22L0104-01		1	9.16	87784	11.67	313493	15.30	158263	18.35	272846	23.39	207110	26.08	191935	24.42	367137					
9	0417	NT1422123074.D	22L0104-02		1	9.16	89149	11.67	317814	15.30	157290	18.35	268147	23.40	207625	26.09	176715	24.41	362397					
10	0453	NT1422123075.D	22L0136-01		1	9.16	86977	11.67	316023	15.30	157738	18.35	264591	23.40	220146	26.09	207692	24.42	390811					
11	0529	NT1422123076.D	22L0136-08		1	9.16	90666	11.67	324201	15.30	166361	18.35	280620	23.40	221328	26.09	206533	24.41	398181					
12	0605	NT1422123077.D	22L0139-09		1	9.16	89268	11.67	320325	15.30	163472	18.35	273676	23.40	214156	26.08	184962	24.41	378021					
13	0641	NT1422123078.D	BKL0193-MS1		1	9.16	84281	11.67	304250	15.30	157987	18.35	258132	23.40	204763	26.08	182161	24.42	376384					
14	0717	NT1422123079.D	BKL0193-MSD1		1	9.16	83089	11.67	297062	15.30	153282	18.35	252454	23.40	203015	26.08	180272	24.42	365012					
15	0753	NT1422123080.D	22L0136-10		1	9.16	85176	11.67	314063	15.30	159047	18.35	264157	23.40	208161	26.09	193384	24.42	370682					
16	0829	NT1422123081.D	22L0136-11		1	9.16	86936	11.67	318066	15.30	160091	18.35	269454	23.40	204439	26.09	187850	24.41	373381					
17	0905	NT1422123082.D	22L0136-12		1	9.16	85389	11.67	310291	15.30	157429	18.35	260367	23.40	202993	26.09	188657	24.42	372056					
18	0941	NT1422123083.D	SKL0355-CCV1		1	9.16	133778	11.67	496301	15.30	271703	18.35	424221	23.40	389585	26.08	298756	24.41	687974					

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230C.b

Instrument: nt14.i Date: 31-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
2330	NT1422123066.D	SKL0355-ICV5	1	2,2'-oxybis(1-Chloropropane),
0006	NT1422123067.D	SKL0355-LCV3	1	Benzyl alcohol, Benzoic acid, 4-Nitrophenol, 4-Nitroaniline, Pentachlorophenol,
0042	NT1422123068.D	SKL0355-LCV4	1	2,2'-oxybis(1-Chloropropane), 2,4-Dinitrophenol, 4-Nitrophenol,
0118	NT1422123069.D	BKL0193-BLK1	1	NO MANUAL INTEGRATION
0153	NT1422123070.D	BKL0193-BS1	1	NO MANUAL INTEGRATION
0229	NT1422123071.D	BKL0193-BSD1	1	NO MANUAL INTEGRATION
0305	NT1422123072.D	BKL0193-SRM1	1	Benzoic acid,
0341	NT1422123073.D	22L0104-01	1	Benzyl alcohol, Benzo(k)fluoranthene,
0417	NT1422123074.D	22L0104-02	1	NO MANUAL INTEGRATION
0453	NT1422123075.D	22L0136-01	1	Benzoic acid, Benzo(k)fluoranthene,
0529	NT1422123076.D	22L0136-08	1	Benzo(k)fluoranthene, Dibenzo(a,h)anthracene,
0605	NT1422123077.D	22L0139-09	1	Benzo(k)fluoranthene,
0641	NT1422123078.D	BKL0193-MS1	1	NO MANUAL INTEGRATION
0717	NT1422123079.D	BKL0193-MSD1	1	NO MANUAL INTEGRATION
0753	NT1422123080.D	22L0136-10	1	2-Methylphenol, Benzoic acid, Dibenzo(a,h)anthracene,
0829	NT1422123081.D	22L0136-11	1	Benzoic acid, Di-n-octylphthalate, Dibenzo(a,h)anthracene,
0905	NT1422123082.D	22L0136-12	1	Benzoic acid, Butylbenzylphthalate, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene,

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

Time	Filename	LabID	DF	Manually Integrated Compounds
0941	NT1422123083.D	SKL0355-CCV1	1	2,2'-oxybis(1-Chloropropane),

Security Status Report

Date: 04-Jan-2023 14:53

NT1422123066.D	Data Locked	van, 04-Jan-2023 14:53
NT1422123067.D	Data Locked	van, 04-Jan-2023 14:53
NT1422123068.D	Data Locked	van, 04-Jan-2023 14:53
NT1422123069.D	Data Locked	van, 04-Jan-2023 14:53
NT1422123070.D	Data Locked	van, 04-Jan-2023 14:53
NT1422123071.D	Data Locked	van, 04-Jan-2023 14:53
NT1422123072.D	Data Locked	van, 04-Jan-2023 14:53
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NT1422123077.D	Data Locked	van, 04-Jan-2023 14:53
NT1422123078.D	Data Locked	van, 04-Jan-2023 14:53
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NT1422123080.D	Data Locked	van, 04-Jan-2023 14:53
NT1422123081.D	Data Locked	van, 04-Jan-2023 14:53
NT1422123082.D	Data Locked	van, 04-Jan-2023 14:53
NT1422123083.D	Data Locked	van, 04-Jan-2023 14:53

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0355
Instrument: NT14
Calibration: FL00066
Calibration Date: 12/30/2022

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKL0355-ICV1 (Water)			Lab File ID: NT1422123011.D			Analyzed: 12/30/22 13:31		
2-Fluorophenol	7.5000	97.6	80 - 120	6.935	6.935857	-0.0009	N/A	
Phenol-d5	7.5000	98.6	80 - 120	8.526	8.526429	-0.0004	N/A	
2-Chlorophenol-d4	7.5000	97.6	80 - 120	8.812	8.816429	-0.0044	N/A	
1,2-Dichlorobenzene-d4	5.0000	95.3	80 - 120	9.548	9.549143	-0.0011	N/A	
Nitrobenzene-d5	5.0000	97.2	80 - 120	10.278	10.28229	-0.0043	N/A	
2-Fluorobiphenyl	5.0000	96.3	80 - 120	13.917	13.91786	-0.0009	N/A	
2,4,6-Tribromophenol	7.5000	96.5	80 - 120	16.963	16.96783	-0.0048	N/A	
p-Terphenyl-d14	5.0000	96.3	80 - 120	21.503	21.505	-0.0020	N/A	
SKL0355-ICB1 (Water)			Lab File ID: NT1422123012.D			Analyzed: 12/30/22 14:08		
2-Fluorophenol	7.5000	88.4	30 - 160	6.934	6.935857	-0.0019	N/A	
Phenol-d5	7.5000	90.2	30 - 160	8.526	8.526429	-0.0004	N/A	
2-Chlorophenol-d4	7.5000	92.7	30 - 160	8.812	8.816429	-0.0044	N/A	
1,2-Dichlorobenzene-d4	5.0000	89.2	30 - 160	9.548	9.549143	-0.0011	N/A	
Nitrobenzene-d5	5.0000	91.7	30 - 160	10.278	10.28229	-0.0043	N/A	
2-Fluorobiphenyl	5.0000	92.1	30 - 160	13.916	13.91786	-0.0019	N/A	
2,4,6-Tribromophenol	7.5000	75.8	30 - 160	16.962	16.96783	-0.0058	N/A	
p-Terphenyl-d14	5.0000	95.5	30 - 160	21.502	21.505	-0.0030	N/A	
SKL0355-ICV2 (Water)			Lab File ID: NT1422123014.D			Analyzed: 12/30/22 15:53		
2-Fluorophenol	7.5000	98.3	80 - 120	6.935	6.935857	-0.0009	N/A	
Phenol-d5	7.5000	99.4	80 - 120	8.526	8.526429	-0.0004	N/A	
2-Chlorophenol-d4	7.5000	96.5	80 - 120	8.812	8.816429	-0.0044	N/A	
1,2-Dichlorobenzene-d4	5.0000	93.5	80 - 120	9.548	9.549143	-0.0011	N/A	
Nitrobenzene-d5	5.0000	100	80 - 120	10.278	10.28229	-0.0043	N/A	
2-Fluorobiphenyl	5.0000	92.8	80 - 120	13.917	13.91786	-0.0009	N/A	
2,4,6-Tribromophenol	7.5000	90.9	80 - 120	16.97	16.96783	0.0022	N/A	
p-Terphenyl-d14	5.0000	95.0	80 - 120	21.503	21.505	-0.0020	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG/WO:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0355	Instrument:	NT14
Calibration:	FL00066	Calibration Date:	12/30/2022

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKL0355-ICV4 (Water)			Lab File ID: NT1422123049.D			Analyzed: 12/31/22 13:17		
2-Fluorophenol	7.5000	98.5	80 - 120	6.927	6.935857	-0.0089	N/A	
Phenol-d5	7.5000	99.0	80 - 120	8.519	8.526429	-0.0074	N/A	
2-Chlorophenol-d4	7.5000	98.8	80 - 120	8.804	8.816429	-0.0124	N/A	
1,2-Dichlorobenzene-d4	5.0000	93.8	80 - 120	9.533	9.549143	-0.0161	N/A	
Nitrobenzene-d5	5.0000	102	80 - 120	10.27	10.28229	-0.0123	N/A	
2-Fluorobiphenyl	5.0000	94.1	80 - 120	13.909	13.91786	-0.0089	N/A	
2,4,6-Tribromophenol	7.5000	92.1	80 - 120	16.963	16.96783	-0.0048	N/A	
p-Terphenyl-d14	5.0000	88.8	80 - 120	21.495	21.505	-0.0100	N/A	
SKL0355-LCV1 (Water)			Lab File ID: NT1422123051.D			Analyzed: 12/31/22 14:29		
2-Fluorophenol	0.30000	115	50 - 150	6.927	6.935857	-0.0089	N/A	
Phenol-d5	0.30000	102	50 - 150	8.519	8.526429	-0.0074	N/A	
2-Chlorophenol-d4	0.30000	111	50 - 150	8.804	8.816429	-0.0124	N/A	
1,2-Dichlorobenzene-d4	0.20000	121	50 - 150	9.533	9.549143	-0.0161	N/A	
Nitrobenzene-d5	0.20000	107	50 - 150	10.27	10.28229	-0.0123	N/A	
2-Fluorobiphenyl	0.20000	112	50 - 150	13.909	13.91786	-0.0089	N/A	
2,4,6-Tribromophenol	0.30000	70.6	50 - 150	16.963	16.96783	-0.0048	N/A	
p-Terphenyl-d14	0.20000	109	50 - 150	21.495	21.505	-0.0100	N/A	
SKL0355-LCV2 (Water)			Lab File ID: NT1422123052.D			Analyzed: 12/31/22 15:05		
2-Fluorophenol	0.75000	94.8	50 - 150	6.919	6.935857	-0.0169	N/A	
Phenol-d5	0.75000	87.7	50 - 150	8.519	8.526429	-0.0074	N/A	
2-Chlorophenol-d4	0.75000	91.5	50 - 150	8.804	8.816429	-0.0124	N/A	
1,2-Dichlorobenzene-d4	0.50000	94.1	50 - 150	9.533	9.549143	-0.0161	N/A	
Nitrobenzene-d5	0.50000	92.0	50 - 150	10.262	10.28229	-0.0203	N/A	
2-Fluorobiphenyl	0.50000	94.9	50 - 150	13.909	13.91786	-0.0089	N/A	
2,4,6-Tribromophenol	0.75000	71.4	50 - 150	16.963	16.96783	-0.0048	N/A	
p-Terphenyl-d14	0.50000	90.8	50 - 150	21.495	21.505	-0.0100	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG/WO:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0355	Instrument:	NT14
Calibration:	FL00066	Calibration Date:	12/30/2022

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKL0355-ICV5 (Water)			Lab File ID: NT1422123066.D			Analyzed: 12/31/22 23:30		
2-Fluorophenol	7.5000	97.9	80 - 120	6.919	6.935857	-0.0169	N/A	
Phenol-d5	7.5000	97.9	80 - 120	8.519	8.526429	-0.0074	N/A	
2-Chlorophenol-d4	7.5000	98.4	80 - 120	8.797	8.816429	-0.0194	N/A	
1,2-Dichlorobenzene-d4	5.0000	93.6	80 - 120	9.525	9.549143	-0.0241	N/A	
Nitrobenzene-d5	5.0000	104	80 - 120	10.262	10.28229	-0.0203	N/A	
2-Fluorobiphenyl	5.0000	95.4	80 - 120	13.901	13.91786	-0.0169	N/A	
2,4,6-Tribromophenol	7.5000	89.3	80 - 120	16.955	16.96783	-0.0128	N/A	
p-Terphenyl-d14	5.0000	86.8	80 - 120	21.495	21.505	-0.0100	N/A	
SKL0355-LCV3 (Water)			Lab File ID: NT1422123067.D			Analyzed: 01/01/23 00:06		
2-Fluorophenol	0.30000	119	50 - 150	6.919	6.935857	-0.0169	N/A	
Phenol-d5	0.30000	104	50 - 150	8.519	8.526429	-0.0074	N/A	
2-Chlorophenol-d4	0.30000	112	50 - 150	8.797	8.816429	-0.0194	N/A	
1,2-Dichlorobenzene-d4	0.20000	120	50 - 150	9.525	9.549143	-0.0241	N/A	
Nitrobenzene-d5	0.20000	113	50 - 150	10.262	10.28229	-0.0203	N/A	
2-Fluorobiphenyl	0.20000	111	50 - 150	13.901	13.91786	-0.0169	N/A	
2,4,6-Tribromophenol	0.30000	74.9	50 - 150	16.955	16.96783	-0.0128	N/A	
p-Terphenyl-d14	0.20000	111	50 - 150	21.495	21.505	-0.0100	N/A	
SKL0355-LCV4 (Water)			Lab File ID: NT1422123068.D			Analyzed: 01/01/23 00:42		
2-Fluorophenol	0.75000	97.6	50 - 150	6.919	6.935857	-0.0169	N/A	
Phenol-d5	0.75000	88.1	50 - 150	8.519	8.526429	-0.0074	N/A	
2-Chlorophenol-d4	0.75000	93.0	50 - 150	8.797	8.816429	-0.0194	N/A	
1,2-Dichlorobenzene-d4	0.50000	96.0	50 - 150	9.525	9.549143	-0.0241	N/A	
Nitrobenzene-d5	0.50000	96.6	50 - 150	10.262	10.28229	-0.0203	N/A	
2-Fluorobiphenyl	0.50000	94.4	50 - 150	13.901	13.91786	-0.0169	N/A	
2,4,6-Tribromophenol	0.75000	71.7	50 - 150	16.955	16.96783	-0.0128	N/A	
p-Terphenyl-d14	0.50000	90.3	50 - 150	21.495	21.505	-0.0100	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0355
Instrument: NT14
Calibration: FL00066
Calibration Date: 12/30/2022

Surrogate Compound	Spike Level ug/kg wet	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BKL0193-BLK1 (Solid)			Lab File ID: NT1422123069.D			Analyzed: 01/01/23 01:18		
Phenol-d5	750.00	64.6	29 - 120	8.519	8.526429	-0.0074	N/A	
2-Chlorophenol-d4	750.00	67.7	31 - 120	8.797	8.816429	-0.0194	N/A	
1,2-Dichlorobenzene-d4	500.00	67.0	32 - 120	9.525	9.549143	-0.0241	N/A	
Nitrobenzene-d5	500.00	78.3	30 - 120	10.262	10.28229	-0.0203	N/A	
2-Fluorobiphenyl	500.00	75.3	35 - 120	13.901	13.91786	-0.0169	N/A	
p-Terphenyl-d14	500.00	88.4	37 - 120	21.487	21.505	-0.0180	N/A	
BKL0193-BS1 (Solid)			Lab File ID: NT1422123070.D			Analyzed: 01/01/23 01:53		
Phenol-d5	750.00	81.4	29 - 120	8.519	8.526429	-0.0074	N/A	
2-Chlorophenol-d4	750.00	80.9	31 - 120	8.797	8.816429	-0.0194	N/A	
1,2-Dichlorobenzene-d4	500.00	74.0	32 - 120	9.525	9.549143	-0.0241	N/A	
Nitrobenzene-d5	500.00	87.9	30 - 120	10.255	10.28229	-0.0273	N/A	
2-Fluorobiphenyl	500.00	84.6	35 - 120	13.893	13.91786	-0.0249	N/A	
p-Terphenyl-d14	500.00	91.0	37 - 120	21.487	21.505	-0.0180	N/A	
BKL0193-BSD1 (Solid)			Lab File ID: NT1422123071.D			Analyzed: 01/01/23 02:29		
Phenol-d5	750.00	78.5	29 - 120	8.519	8.526429	-0.0074	N/A	
2-Chlorophenol-d4	750.00	77.9	31 - 120	8.797	8.816429	-0.0194	N/A	
1,2-Dichlorobenzene-d4	500.00	72.5	32 - 120	9.525	9.549143	-0.0241	N/A	
Nitrobenzene-d5	500.00	85.7	30 - 120	10.255	10.28229	-0.0273	N/A	
2-Fluorobiphenyl	500.00	82.8	35 - 120	13.894	13.91786	-0.0239	N/A	
p-Terphenyl-d14	500.00	88.3	37 - 120	21.487	21.505	-0.0180	N/A	
BKL0193-SRM1 (Solid)			Lab File ID: NT1422123072.D			Analyzed: 01/01/23 03:05		
Phenol-d5	7500.0	74.7	29 - 120	8.511	8.526429	-0.0154	N/A	
2-Chlorophenol-d4	7500.0	76.5	31 - 120	8.797	8.816429	-0.0194	N/A	
1,2-Dichlorobenzene-d4	5000.0	69.5	32 - 120	9.525	9.549143	-0.0241	N/A	
Nitrobenzene-d5	5000.0	80.3	30 - 120	10.255	10.28229	-0.0273	N/A	
2-Fluorobiphenyl	5000.0	80.9	35 - 120	13.894	13.91786	-0.0239	N/A	
p-Terphenyl-d14	5000.0	88.6	37 - 120	21.487	21.505	-0.0180	N/A	
22L0136-01 (Solid)			Lab File ID: NT1422123075.D			Analyzed: 01/01/23 04:53		
2-Fluorobiphenyl	499.52	87.2	35 - 120	13.893	13.91786	-0.0249	N/A	
p-Terphenyl-d14	499.52	84.3	37 - 120	21.487	21.505	-0.0180	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG/WO:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0355	Instrument:	NT14
Calibration:	FL00066	Calibration Date:	12/30/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
22L0136-08 (Solid)			Lab File ID: NT1422123076.D			Analyzed: 01/01/23 05:29		
Phenol-d5	749.39	71.1	29 - 120	8.511	8.526429	-0.0154	N/A	
22L0136-09 (Solid)			Lab File ID: NT1422123077.D			Analyzed: 01/01/23 06:05		
Phenol-d5	748.99	70.6	29 - 120	8.511	8.526429	-0.0154	N/A	
BKL0193-MS1 (Solid)			Lab File ID: NT1422123078.D			Analyzed: 01/01/23 06:41		
Phenol-d5	750.12	80.4	29 - 120	8.511	8.526429	-0.0154	N/A	
2-Chlorophenol-d4	750.12	81.9	31 - 120	8.797	8.816429	-0.0194	N/A	
1,2-Dichlorobenzene-d4	500.08	74.2	32 - 120	9.517	9.549143	-0.0321	N/A	
Nitrobenzene-d5	500.08	89.2	30 - 120	10.255	10.28229	-0.0273	N/A	
2-Fluorobiphenyl	500.08	86.5	35 - 120	13.894	13.91786	-0.0239	N/A	
p-Terphenyl-d14	500.08	94.3	37 - 120	21.487	21.505	-0.0180	N/A	
BKL0193-MSD1 (Solid)			Lab File ID: NT1422123079.D			Analyzed: 01/01/23 07:17		
Phenol-d5	750.12	81.8	29 - 120	8.511	8.526429	-0.0154	N/A	
2-Chlorophenol-d4	750.12	82.9	31 - 120	8.797	8.816429	-0.0194	N/A	
1,2-Dichlorobenzene-d4	500.08	75.3	32 - 120	9.517	9.549143	-0.0321	N/A	
Nitrobenzene-d5	500.08	91.9	30 - 120	10.255	10.28229	-0.0273	N/A	
2-Fluorobiphenyl	500.08	89.0	35 - 120	13.894	13.91786	-0.0239	N/A	
p-Terphenyl-d14	500.08	94.8	37 - 120	21.487	21.505	-0.0180	N/A	
22L0136-10 (Solid)			Lab File ID: NT1422123080.D			Analyzed: 01/01/23 07:53		
Phenol-d5	748.76	74.3	29 - 120	8.511	8.526429	-0.0154	N/A	
2-Chlorophenol-d4	748.76	78.5	31 - 120	8.797	8.816429	-0.0194	N/A	
1,2-Dichlorobenzene-d4	499.17	71.6	32 - 120	9.517	9.549143	-0.0321	N/A	
Nitrobenzene-d5	499.17	85.6	30 - 120	10.255	10.28229	-0.0273	N/A	
22L0136-11 (Solid)			Lab File ID: NT1422123081.D			Analyzed: 01/01/23 08:29		
Phenol-d5	748.64	71.0	29 - 120	8.519	8.526429	-0.0074	N/A	
2-Chlorophenol-d4	748.64	75.8	31 - 120	8.797	8.816429	-0.0194	N/A	
1,2-Dichlorobenzene-d4	499.09	70.5	32 - 120	9.517	9.549143	-0.0321	N/A	
Nitrobenzene-d5	499.09	83.0	30 - 120	10.255	10.28229	-0.0273	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG/WO:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0355	Instrument:	NT14
Calibration:	FL00066	Calibration Date:	12/30/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
22L0136-12 (Solid)			Lab File ID: NT1422123082.D			Analyzed: 01/01/23 09:05		
Phenol-d5	749.43	70.3	29 - 120	8.511	8.526429	-0.0154	N/A	
2-Chlorophenol-d4	749.43	74.4	31 - 120	8.797	8.816429	-0.0194	N/A	
1,2-Dichlorobenzene-d4	499.62	68.2	32 - 120	9.517	9.549143	-0.0321	N/A	
Nitrobenzene-d5	499.62	82.3	30 - 120	10.255	10.28229	-0.0273	N/A	
SKL0355-CCV1 (Water)			Lab File ID: NT1422123083.D			Analyzed: 01/01/23 09:41		
2-Fluorophenol	7.5000	98.9	50 - 150	6.911	6.935857	-0.0249	N/A	
Phenol-d5	7.5000	99.5	50 - 150	8.511	8.526429	-0.0154	N/A	
2-Chlorophenol-d4	7.5000	99.1	50 - 150	8.797	8.816429	-0.0194	N/A	
1,2-Dichlorobenzene-d4	5.0000	94.0	50 - 150	9.525	9.549143	-0.0241	N/A	
Nitrobenzene-d5	5.0000	105	50 - 150	10.255	10.28229	-0.0273	N/A	
2-Fluorobiphenyl	5.0000	93.3	50 - 150	13.894	13.91786	-0.0239	N/A	
2,4,6-Tribromophenol	7.5000	89.9	50 - 150	16.947	16.96783	-0.0208	N/A	
p-Terphenyl-d14	5.0000	85.6	50 - 150	21.487	21.505	-0.0180	N/A	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0355	Instrument:	NT14
		Calibration:	FL00066

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SKL0355-ICV1)		(Water)	Lab File ID: NT1422123011.D				Analyzed: 12/30/22 13:31		
1,4-Dichlorobenzene-d4	145276	9.184	145276	9.184	100	50 - 200	0.000	+/-0.50	
Naphthalene-d8	542519	11.689	542519	11.689	100	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	292314	15.325	292314	15.325	100	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	478070	18.369	478070	18.369	100	50 - 200	0.000	+/-0.50	
Chrysene-d12	412507	23.415	412507	23.415	100	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	590464	24.437	590464	24.437	100	50 - 200	0.000	+/-0.50	
Perylene-d12	379639	26.102	379639	26.102	100	50 - 200	0.000	+/-0.50	
Initial Cal Blank (SKL0355-ICB1)		(Water)	Lab File ID: NT1422123012.D				Analyzed: 12/30/22 14:08		
1,4-Dichlorobenzene-d4	174509	9.183	145276	9.184	120	50 - 200	-0.001	+/-0.50	
Naphthalene-d8	641934	11.688	542519	11.689	118	50 - 200	-0.001	+/-0.50	
Acenaphthene-d10	335436	15.325	292314	15.325	115	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	560033	18.369	478070	18.369	117	50 - 200	0.000	+/-0.50	
Chrysene-d12	444498	23.407	412507	23.415	108	50 - 200	-0.008	+/-0.50	
Di-n-Octylphthalate-d4	541261	24.436	590464	24.437	92	50 - 200	-0.001	+/-0.50	
Perylene-d12	423100	26.101	379639	26.102	111	50 - 200	-0.001	+/-0.50	
Initial Cal Check (SKL0355-ICV2)		(Water)	Lab File ID: NT1422123014.D				Analyzed: 12/30/22 15:53		
1,4-Dichlorobenzene-d4	130476	9.184	145276	9.184	90	50 - 200	0.000	+/-0.50	
Naphthalene-d8	484478	11.689	542519	11.689	89	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	261445	15.325	292314	15.325	89	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	412822	18.369	478070	18.369	86	50 - 200	0.000	+/-0.50	
Chrysene-d12	349122	23.407	412507	23.415	85	50 - 200	-0.008	+/-0.50	
Di-n-Octylphthalate-d4	522046	24.437	590464	24.437	88	50 - 200	0.000	+/-0.50	
Perylene-d12	327130	26.102	379639	26.102	86	50 - 200	0.000	+/-0.50	
Initial Cal Check (SKL0355-ICV4)		(Water)	Lab File ID: NT1422123049.D				Analyzed: 12/31/22 13:17		
1,4-Dichlorobenzene-d4	134439	9.168	145276	9.184	93	50 - 200	-0.016	+/-0.50	
Naphthalene-d8	492388	11.681	542519	11.689	91	50 - 200	-0.008	+/-0.50	
Acenaphthene-d10	270679	15.318	292314	15.325	93	50 - 200	-0.007	+/-0.50	
Phenanthrene-d10	429616	18.369	478070	18.369	90	50 - 200	0.000	+/-0.50	
Chrysene-d12	376030	23.407	412507	23.415	91	50 - 200	-0.008	+/-0.50	
Di-n-Octylphthalate-d4	634628	24.429	590464	24.437	107	50 - 200	-0.008	+/-0.50	
Perylene-d12	336225	26.094	379639	26.102	89	50 - 200	-0.008	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0355	Instrument:	NT14
		Calibration:	FL00066

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Low Cal Check (SKL0355-LCV1)		(Water)	Lab File ID: NT1422123051.D				Analyzed: 12/31/22 14:29		
1,4-Dichlorobenzene-d4	116397	9.168	145276	9.184	80	50 - 200	-0.016	+/-0.50	
Naphthalene-d8	425902	11.673	542519	11.689	79	50 - 200	-0.016	+/-0.50	
Acenaphthene-d10	216598	15.31	292314	15.325	74	50 - 200	-0.015	+/-0.50	
Phenanthrene-d10	347572	18.361	478070	18.369	73	50 - 200	-0.008	+/-0.50	
Chrysene-d12	288877	23.407	412507	23.415	70	50 - 200	-0.008	+/-0.50	
Di-n-Octylphthalate-d4	433122	24.429	590464	24.437	73	50 - 200	-0.008	+/-0.50	
Perylene-d12	247727	26.094	379639	26.102	65	50 - 200	-0.008	+/-0.50	
Low Cal Check (SKL0355-LCV2)		(Water)	Lab File ID: NT1422123052.D				Analyzed: 12/31/22 15:05		
1,4-Dichlorobenzene-d4	120125	9.168	145276	9.184	83	50 - 200	-0.016	+/-0.50	
Naphthalene-d8	431181	11.673	542519	11.689	79	50 - 200	-0.016	+/-0.50	
Acenaphthene-d10	221457	15.31	292314	15.325	76	50 - 200	-0.015	+/-0.50	
Phenanthrene-d10	356219	18.361	478070	18.369	75	50 - 200	-0.008	+/-0.50	
Chrysene-d12	294883	23.407	412507	23.415	71	50 - 200	-0.008	+/-0.50	
Di-n-Octylphthalate-d4	439623	24.429	590464	24.437	74	50 - 200	-0.008	+/-0.50	
Perylene-d12	255506	26.094	379639	26.102	67	50 - 200	-0.008	+/-0.50	
Initial Cal Check (SKL0355-ICV5)		(Water)	Lab File ID: NT1422123066.D				Analyzed: 12/31/22 23:30		
1,4-Dichlorobenzene-d4	138755	9.16	145276	9.184	96	50 - 200	-0.024	+/-0.50	
Naphthalene-d8	501723	11.673	542519	11.689	92	50 - 200	-0.016	+/-0.50	
Acenaphthene-d10	275234	15.31	292314	15.325	94	50 - 200	-0.015	+/-0.50	
Phenanthrene-d10	440085	18.361	478070	18.369	92	50 - 200	-0.008	+/-0.50	
Chrysene-d12	384795	23.399	412507	23.415	93	50 - 200	-0.016	+/-0.50	
Di-n-Octylphthalate-d4	674530	24.421	590464	24.437	114	50 - 200	-0.016	+/-0.50	
Perylene-d12	336665	26.086	379639	26.102	89	50 - 200	-0.016	+/-0.50	
Low Cal Check (SKL0355-LCV3)		(Water)	Lab File ID: NT1422123067.D				Analyzed: 01/01/23 00:06		
1,4-Dichlorobenzene-d4	109143	9.16	145276	9.184	75	50 - 200	-0.024	+/-0.50	
Naphthalene-d8	397029	11.666	542519	11.689	73	50 - 200	-0.023	+/-0.50	
Acenaphthene-d10	204214	15.31	292314	15.325	70	50 - 200	-0.015	+/-0.50	
Phenanthrene-d10	329657	18.361	478070	18.369	69	50 - 200	-0.008	+/-0.50	
Chrysene-d12	269585	23.399	412507	23.415	65	50 - 200	-0.016	+/-0.50	
Di-n-Octylphthalate-d4	449369	24.421	590464	24.437	76	50 - 200	-0.016	+/-0.50	
Perylene-d12	227797	26.086	379639	26.102	60	50 - 200	-0.016	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SKL0355

SDG: 22L0136
Project: AOC4 UR Phase 3
Instrument: NT14
Calibration: FL00066

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Low Cal Check (SKL0355-LCV4)		(Water)	Lab File ID: NT1422123068.D					Analyzed: 01/01/23 00:42	
1,4-Dichlorobenzene-d4	113715	9.16	145276	9.184	78	50 - 200	-0.024	+/-0.50	
Naphthalene-d8	412900	11.666	542519	11.689	76	50 - 200	-0.023	+/-0.50	
Acenaphthene-d10	210199	15.302	292314	15.325	72	50 - 200	-0.023	+/-0.50	
Phenanthrene-d10	341756	18.354	478070	18.369	71	50 - 200	-0.015	+/-0.50	
Chrysene-d12	291897	23.399	412507	23.415	71	50 - 200	-0.016	+/-0.50	
Di-n-Octylphthalate-d4	463051	24.421	590464	24.437	78	50 - 200	-0.016	+/-0.50	
Perylene-d12	229756	26.086	379639	26.102	61	50 - 200	-0.016	+/-0.50	
Blank (BKL0193-BLK1)		(Solid)	Lab File ID: NT1422123069.D					Analyzed: 01/01/23 01:18	
1,4-Dichlorobenzene-d4	92113	9.16	145276	9.184	63	50 - 200	-0.024	+/-0.50	
Naphthalene-d8	329342	11.666	542519	11.689	61	50 - 200	-0.023	+/-0.50	
Acenaphthene-d10	165382	15.302	292314	15.325	57	50 - 200	-0.023	+/-0.50	
Phenanthrene-d10	271589	18.353	478070	18.369	57	50 - 200	-0.016	+/-0.50	
Chrysene-d12	203703	23.399	412507	23.415	49	50 - 200	-0.016	+/-0.50	*
Di-n-Octylphthalate-d4	341255	24.421	590464	24.437	58	50 - 200	-0.016	+/-0.50	
Perylene-d12	177895	26.086	379639	26.102	47	50 - 200	-0.016	+/-0.50	*
LCS (BKL0193-BS1)		(Solid)	Lab File ID: NT1422123070.D					Analyzed: 01/01/23 01:53	
1,4-Dichlorobenzene-d4	84612	9.16	145276	9.184	58	50 - 200	-0.024	+/-0.50	
Naphthalene-d8	308541	11.666	542519	11.689	57	50 - 200	-0.023	+/-0.50	
Acenaphthene-d10	159985	15.302	292314	15.325	55	50 - 200	-0.023	+/-0.50	
Phenanthrene-d10	260655	18.353	478070	18.369	55	50 - 200	-0.016	+/-0.50	
Chrysene-d12	212958	23.399	412507	23.415	52	50 - 200	-0.016	+/-0.50	
Di-n-Octylphthalate-d4	356784	24.421	590464	24.437	60	50 - 200	-0.016	+/-0.50	
Perylene-d12	183421	26.078	379639	26.102	48	50 - 200	-0.024	+/-0.50	*
LCS Dup (BKL0193-BSD1)		(Solid)	Lab File ID: NT1422123071.D					Analyzed: 01/01/23 02:29	
1,4-Dichlorobenzene-d4	84823	9.16	145276	9.184	58	50 - 200	-0.024	+/-0.50	
Naphthalene-d8	309397	11.666	542519	11.689	57	50 - 200	-0.023	+/-0.50	
Acenaphthene-d10	158920	15.302	292314	15.325	54	50 - 200	-0.023	+/-0.50	
Phenanthrene-d10	257888	18.353	478070	18.369	54	50 - 200	-0.016	+/-0.50	
Chrysene-d12	212537	23.399	412507	23.415	52	50 - 200	-0.016	+/-0.50	
Di-n-Octylphthalate-d4	355260	24.414	590464	24.437	60	50 - 200	-0.023	+/-0.50	
Perylene-d12	179497	26.078	379639	26.102	47	50 - 200	-0.024	+/-0.50	*

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0355	Instrument:	NT14
		Calibration:	FL00066

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Reference (BKL0193-SRM1)		(Solid)		Lab File ID: NT1422123072.D				Analyzed: 01/01/23 03:05	
1,4-Dichlorobenzene-d4	86260	9.16	145276	9.184	59	50 - 200	-0.024	+/-0.50	
Naphthalene-d8	315083	11.666	542519	11.689	58	50 - 200	-0.023	+/-0.50	
Acenaphthene-d10	159935	15.302	292314	15.325	55	50 - 200	-0.023	+/-0.50	
Phenanthrene-d10	269812	18.354	478070	18.369	56	50 - 200	-0.015	+/-0.50	
Chrysene-d12	210765	23.4	412507	23.415	51	50 - 200	-0.015	+/-0.50	
Di-n-Octylphthalate-d4	355122	24.414	590464	24.437	60	50 - 200	-0.023	+/-0.50	
Perylene-d12	179115	26.078	379639	26.102	47	50 - 200	-0.024	+/-0.50	*
LDW22-SS823 (22L0136-01)		(Solid)		Lab File ID: NT1422123075.D				Analyzed: 01/01/23 04:53	
1,4-Dichlorobenzene-d4	86977	9.16	138755	9.16	63	50 - 200	0.000	+/-0.50	
Naphthalene-d8	316023	11.665	501723	11.673	63	50 - 200	-0.008	+/-0.50	
Acenaphthene-d10	157738	15.302	275234	15.31	57	50 - 200	-0.008	+/-0.50	
Phenanthrene-d10	264591	18.353	440085	18.361	60	50 - 200	-0.008	+/-0.50	
Chrysene-d12	220146	23.399	384795	23.399	57	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	390811	24.421	674530	24.421	58	50 - 200	0.000	+/-0.50	
Perylene-d12	207692	26.094	336665	26.086	62	50 - 200	0.008	+/-0.50	
LDW22-SS786 (22L0136-08)		(Solid)		Lab File ID: NT1422123076.D				Analyzed: 01/01/23 05:29	
1,4-Dichlorobenzene-d4	90666	9.16	138755	9.16	65	50 - 200	0.000	+/-0.50	
LDW22-SS766 (22L0136-09)		(Solid)		Lab File ID: NT1422123077.D				Analyzed: 01/01/23 06:05	
1,4-Dichlorobenzene-d4	89268	9.16	138755	9.16	64	50 - 200	0.000	+/-0.50	
Matrix Spike (BKL0193-MS1)		(Solid)		Lab File ID: NT1422123078.D				Analyzed: 01/01/23 06:41	
1,4-Dichlorobenzene-d4	84281	9.16	145276	9.184	58	50 - 200	-0.024	+/-0.50	
Naphthalene-d8	304250	11.666	542519	11.689	56	50 - 200	-0.023	+/-0.50	
Acenaphthene-d10	157987	15.302	292314	15.325	54	50 - 200	-0.023	+/-0.50	
Phenanthrene-d10	258132	18.354	478070	18.369	54	50 - 200	-0.015	+/-0.50	
Chrysene-d12	204763	23.399	412507	23.415	50	50 - 200	-0.016	+/-0.50	*
Di-n-Octylphthalate-d4	376384	24.421	590464	24.437	64	50 - 200	-0.016	+/-0.50	
Perylene-d12	182161	26.078	379639	26.102	48	50 - 200	-0.024	+/-0.50	*

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0355	Instrument:	NT14
		Calibration:	FL00066

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike Dup (BKL0193-MSD1)		(Solid)	Lab File ID: NT1422123079.D				Analyzed: 01/01/23 07:17		
1,4-Dichlorobenzene-d4	83089	9.16	145276	9.184	57	50 - 200	-0.024	+/-0.50	
Naphthalene-d8	297062	11.666	542519	11.689	55	50 - 200	-0.023	+/-0.50	
Acenaphthene-d10	153282	15.302	292314	15.325	52	50 - 200	-0.023	+/-0.50	
Phenanthrene-d10	252454	18.353	478070	18.369	53	50 - 200	-0.016	+/-0.50	
Chrysene-d12	203015	23.399	412507	23.415	49	50 - 200	-0.016	+/-0.50	*
Di-n-Octylphthalate-d4	365012	24.421	590464	24.437	62	50 - 200	-0.016	+/-0.50	
Perylene-d12	180272	26.078	379639	26.102	47	50 - 200	-0.024	+/-0.50	*
LDW22-SS771 (22L0136-10)		(Solid)	Lab File ID: NT1422123080.D				Analyzed: 01/01/23 07:53		
1,4-Dichlorobenzene-d4	85176	9.16	138755	9.16	61	50 - 200	0.000	+/-0.50	
Naphthalene-d8	314063	11.665	501723	11.673	63	50 - 200	-0.008	+/-0.50	
Acenaphthene-d10	159047	15.302	275234	15.31	58	50 - 200	-0.008	+/-0.50	
Phenanthrene-d10	264157	18.353	440085	18.361	60	50 - 200	-0.008	+/-0.50	
Chrysene-d12	208161	23.399	384795	23.399	54	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	370682	24.421	674530	24.421	55	50 - 200	0.000	+/-0.50	
Perylene-d12	193384	26.086	336665	26.086	57	50 - 200	0.000	+/-0.50	
LDW22-SS771-FD (22L0136-11)		(Solid)	Lab File ID: NT1422123081.D				Analyzed: 01/01/23 08:29		
1,4-Dichlorobenzene-d4	86936	9.16	138755	9.16	63	50 - 200	0.000	+/-0.50	
Naphthalene-d8	318066	11.666	501723	11.673	63	50 - 200	-0.007	+/-0.50	
Acenaphthene-d10	160091	15.302	275234	15.31	58	50 - 200	-0.008	+/-0.50	
Phenanthrene-d10	269454	18.353	440085	18.361	61	50 - 200	-0.008	+/-0.50	
Chrysene-d12	204439	23.399	384795	23.399	53	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	373381	24.414	674530	24.421	55	50 - 200	-0.007	+/-0.50	
Perylene-d12	187850	26.086	336665	26.086	56	50 - 200	0.000	+/-0.50	
LDW22-SS772 (22L0136-12)		(Solid)	Lab File ID: NT1422123082.D				Analyzed: 01/01/23 09:05		
1,4-Dichlorobenzene-d4	85389	9.16	138755	9.16	62	50 - 200	0.000	+/-0.50	
Naphthalene-d8	310291	11.666	501723	11.673	62	50 - 200	-0.007	+/-0.50	
Acenaphthene-d10	157429	15.302	275234	15.31	57	50 - 200	-0.008	+/-0.50	
Phenanthrene-d10	260367	18.354	440085	18.361	59	50 - 200	-0.007	+/-0.50	
Chrysene-d12	202993	23.399	384795	23.399	53	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	372056	24.421	674530	24.421	55	50 - 200	0.000	+/-0.50	
Perylene-d12	188657	26.086	336665	26.086	56	50 - 200	0.000	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0355	Instrument:	NT14
		Calibration:	FL00066

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (SKL0355-CCV1)		(Water)		Lab File ID: NT1422123083.D				Analyzed: 01/01/23 09:41	
1,4-Dichlorobenzene-d4	133778	9.16	145276	9.184	92	50 - 200	-0.024	+/-0.50	
Naphthalene-d8	496301	11.666	542519	11.689	91	50 - 200	-0.023	+/-0.50	
Acenaphthene-d10	271703	15.302	292314	15.325	93	50 - 200	-0.023	+/-0.50	
Phenanthrene-d10	424221	18.353	478070	18.369	89	50 - 200	-0.016	+/-0.50	
Chrysene-d12	389585	23.399	412507	23.415	94	50 - 200	-0.016	+/-0.50	
Di-n-Octylphthalate-d4	687974	24.414	590464	24.437	117	50 - 200	-0.023	+/-0.50	
Perylene-d12	298756	26.078	379639	26.102	79	50 - 200	-0.024	+/-0.50	

HOLDING TIME SUMMARY

Analysis: EPA 8270E

Laboratory: Analytical Resources, LLC SDG: 22L0136

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-SS823 22L0136-01	12/06/22 09:41	12/06/22 16:40	12/09/22 14:39	3	365	01/01/23 04:53	23	40	
LDW22-SS786 22L0136-08	12/06/22 12:26	12/06/22 16:40	12/09/22 14:39	3	365	01/01/23 05:29	23	40	
LDW22-SS766 22L0136-09	12/06/22 13:16	12/06/22 16:40	12/09/22 14:39	3	365	01/01/23 06:05	23	40	
LDW22-SS771 22L0136-10	12/06/22 13:35	12/06/22 16:40	12/09/22 14:39	3	365	01/01/23 07:53	23	40	
LDW22-SS771-FD 22L0136-11	12/06/22 13:35	12/06/22 16:40	12/09/22 14:39	3	365	01/01/23 08:29	23	40	
LDW22-SS772 22L0136-12	12/06/22 13:57	12/06/22 16:40	12/09/22 14:39	3	365	01/01/23 09:05	23	40	
Matrix Spike BKL0193-MS1	12/06/22 13:16	12/06/22 16:40	12/09/22 14:39	3	365	01/01/23 06:41	23	40	
Matrix Spike Dup BKL0193-MSD1	12/06/22 13:16	12/06/22 16:40	12/09/22 14:39	3	365	01/01/23 07:17	23	40	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Instrument: NT14

Analyte	MDL	RL	Units
Phenol	4.4	20.0	ug/kg
4-Methylphenol	7.4	20.0	ug/kg
bis(2-Ethylhexyl)phthalate	5.5	50.0	ug/kg

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001941

Printed: 9/25/2013 1:45:31PM

Description:	SVOC 2,4-Dinitrophenol	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	25-Sep-13
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	25-Sep-13 13:45 by JZ
Vendor:	SIGMA	Lot #:	65H5021
Vendor Catalog #:			

Comments

Neat, Purity @ 90-95%. (ARI#: 0466)

Analyte	CAS Number	Concentration	Units
2,4-Dinitrophenol	51-28-5	1000000	ug/mL

B001941
SVOA 2,4-Dinitrophenol
Expires 12/31/2029
Prepared By Jianqing Zhou 9/25/2013

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: 2,4-Dinitrophenol

Manufacturer: Sigma

Product #: _____

Lot #: bEH502I

Purity: 90 ~ 94%

Analyst: _____

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001945

Printed: 9/25/2013 3:23:22PM

Description:	SVOC Benzoic Acid	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	25-Sep-13 15:23 by JZ
Vendor:	ACROS Organics	Lot #:	A0224339
Vendor Catalog #:			

Comments

Neat, Purity @ 98%.

Analyte	CAS Number	Concentration	Units
Benzoic acid	65-85-0	1000000	ug/mL

B001945
SVOC Benzoic Acid
Expires 12/31/2029
Prepared By Jianqing Zhou 12/31/2012

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: Benzoic Acid

Manufacturer: Acros Organics

Product #: _____

Lot #: A0224339

Purity: 98%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001948

Printed: 9/25/2013 3:37:51PM

Description:	SVOC 4,6-Dinitro-2-Methylphenol	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	25-Sep-13
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	25-Sep-13 15:37 by JZ
Vendor:	Chem Service	Lot #:	179-31A
Vendor Catalog #:			

Comments

Neat, Purity @ 99%. (ARI#: 009A)

Analyte	CAS Number	Concentration	Units
4,6-Dinitro-2-methylphenol	534-52-1	1000000	ug/mL

B001948
SVOA 4,6-Dinitro-2-Methylphenol
Expires 12/31/2029
Prepared By Jianqing Zhou 9/25/2013

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: 4,6-Dinitro-2-Methylphenol

Manufacturer: Chem Service

Product #: _____

Lot #: 179-31A

Purity: 99%

Analyst: KB

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B002054

Printed: 10/4/2013 6:32:21PM

Description:	SVOA 1-Methylnaphthalene	Expires:	02-Apr-14
Standard Type:	Analyte Spike	Prepared:	13-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	04-Oct-13 18:32 by JZ
Vendor:	Chem Service	Lot #:	62-5B
Vendor Catalog #:			

Comments

Neat, Purity @ 99%

Analyte	CAS Number	Concentration	Units
1-Methylnaphthalene	90-12-0	1000000	ug/mL

B002054
SVOA 1-Methylnaphthalene
Solvent / Lot: NA
Prep: 12/13/2012 by JZ
Exp: 12/31/2029
Location:

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: 1-Methyl naphthalene

Manufacturer: Chem Service

Product #: 0787

Lot #: 67-53

Purity: 99%

Analyst: AZ

Supelco®

www.sigmaaldrich.com

Certificate of Composition - Analytical Standard

BASE STOCK

Product no.: 22523051
Lot no.: LRAC9813
Expiry Date: May 2023
Manufacturing Date: May 2021
Storage: Refrigerate
Solvent/Matrix: Dichloromethane
Certificate version: LRAC9813.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

J005199
SVOA-ABN BASE STOCK-200-800ug/ml
Expires 5/31/2023
Prepared By Jianqing Zhou 5/18/2021

Analyte	*Assigned Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
3,3'-DICHLOROBENZIDINE CAS# 91-94-1	802	µg/mL	99.9	LC27068
2,4-DINITROTOLUENE CAS# 121-14-2	802	µg/mL	97.8	LB46632
2,6-DINITROTOLUENE CAS# 606-20-2	801	µg/mL	99.9	LB79891
HEXACHLOROCYCLOPENTADIENE CAS# 77-47-4	802	µg/mL	96.0	LB95525
N-NITROSODIMETHYLAMINE CAS# 62-75-9	801	µg/mL	95.0	2019-030598 5
PERYLENE CAS# 198-55-0	201	µg/mL	99.6	04101PG
ANILINE CAS# 62-53-3	803	µg/mL	100.0	10126MG
4-CHLOROANILINE CAS# 106-47-8	803	µg/mL	100.0	MKBZ6909V
2-NITROANILINE CAS# 88-74-4	802	µg/mL	99.9	LC05068
3-NITROANILINE CAS# 99-09-2	802	µg/mL	99.9	LC09264
4-NITROANILINE CAS# 100-01-6	802	µg/mL	99.9	LC11400
PYRIDINE (LOW WATER) CAS# 110-86-1	802	µg/mL	100.0	SHBJ9218

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Certificate issue date: 12-May-2021

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAC9813.01	12-May-2021	Original Release Date

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Supelco®

www.sigmaaldrich.com

Certificate of Composition - Analytical Standard

ACID STOC"

Product no.: 22523046
Lot no.: LRAC9812
Expiry Date: May 2023
Manufacturing Date: May 2021
Storage: Refrigerate
Solvent/Matrix: Dichloromethane
Certificate version: LRAC9812.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

J005200
SVOA-ABN ACID STOCK-200-800ug/ml
Solvent / Lot: DCM
Prep: 5/18/2021 by JZ
Exp: 5/31/2023
Location:

JZ 5/18/21

Analyte	*Assigned Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
2,4-DIMETHYLPHENOL CAS# 105-67-9	802	µg/mL	99.9	LB88935
2,4-DICHLOROPHENOL CAS# 120-83-2	802	µg/mL	100.0	BCBZ6787
2,4,5-TRICHLOROPHENOL CAS# 95-95-4	802	µg/mL	99.9	JS00008
2,4-DINITROPHENOL CAS# 51-28-5	1806	µg/mL	75.9	MKBP5833V
2,4,6-TRICHLOROPHENOL CAS# 88-06-2	803	µg/mL	98.7	LB82983
4-CHLORO-3-METHYLPHENOL CAS# 59-50-7	801	µg/mL	99.9	JS00013
4-NITROPHENOL CAS# 100-02-7	801	µg/mL	99.9	LC10889
2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1	1804	µg/mL	99.7	LC18338
PENTACHLOROPHENOL CAS# 87-86-5	803	µg/mL	98.7	MKCK8156
BENZOIC ACID CAS# 65-85-0	1805	µg/mL	99.9	LC16514

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

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Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Agilent

Certificate of Analysis

J008074

SVOA PAH STD 2000ug/ml
Expires 6/30/2023
Prepared By Joshua Rains 8/5/2021

Product Name: PAH Standard

Product Number: US-106N-1

Lot Number: 0006540449

Lot Issue Date: 11-Jun-2020

Expiration Date: 30-Jun-2023

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
acenaphthene	000083-32-9	RM10879	2008 ± 10 µg/mL
acenaphthylene	000208-96-8	RM10891	2003 ± 10 µg/mL
anthracene	000120-12-7	RM14212	2006 ± 10 µg/mL
benz[a]anthracene	000056-55-3	RM16072	2006 ± 10 µg/mL
benzo[b]fluoranthene	000205-99-2	RM14571	2005 ± 10 µg/mL
benzo[k]fluoranthene	000207-08-9	RM14321	2009 ± 10 µg/mL
benzo[ghi]perylene	000191-24-2	RM15761	2008 ± 10 µg/mL
benzo[a]pyrene	000050-32-8	RM12669	2009 ± 10 µg/mL
chrysene	000218-01-9	RM12260	2009 ± 10 µg/mL
dibenz[a,h]anthracene	000053-70-3	RM06786	2009 ± 10 µg/mL
fluoranthene	000206-44-0	RM12277	2004 ± 10 µg/mL
fluorene	000086-73-7	RM09441	2009 ± 10 µg/mL
indeno[1,2,3-cd]pyrene	000193-39-5	RM14192	2009 ± 10 µg/mL
naphthalene	000091-20-3	NT00970	2008 ± 10 µg/mL
phenanthrene	000085-01-8	RM10495	2009 ± 10 µg/mL
pyrene	000129-00-0	RM03479	2008 ± 10 µg/mL

Matrix: methylene chloride/benzene (1:1)

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 17025 Cert No. AT-1937

Certificate of Analysis

Product Number: US-106N-1 **Lot Number:** 0006540449

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative

ISO 17034 Cert No.
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/

ISO 17025 Cert
No. AT-1937

Certificate of Analysis

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101244
Description: Benzidines Standard
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL16062
Certification Date: November 19, 2020
Expiration Date: November 30, 2030

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzidine	92-87-5	2000	± 2.740%
3,3'-Dichlorobenzidine	91-94-1	2000	± 3.229%

J008310
Benzidines std @2000ug/ml
Expires 11/30/2030
Prepared By Van Spohn 8/12/2021

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64691018_us

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6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Certificate of Analysis

BNAs - Sandy Loam 1

Certified Reference Material

Description

Product ID CRM143-50G
Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Certified Values

Analyte	*Units*	*Certified Value* [1,4]
1,2,4-Trichlorobenzene	µg/Kg	1477 ± 181
1,3-Dichlorobenzene (m-Dichlorobenzene)	µg/Kg	1625 ± 292
1-Chloronaphthalene	µg/Kg	2809 ± 84
2,3-Dimethylphenol	µg/Kg	4552 ± 137
2,4,5-Trichlorophenol	µg/Kg	3438 ± 245
2,4,6-Trichlorophenol	µg/Kg	2194 ± 251
2,4-Dichlorophenol	µg/Kg	6991 ± 394
2,4-Dimethylphenol	µg/Kg	6357 ± 879
2,4-Dinitrophenol	µg/Kg	2922 ± 523
2,4-Dinitrotoluene (2,4-DNT)	µg/Kg	3318 ± 442
2,6-Dichlorophenol	µg/Kg	4578 ± 874
2,6-Dimethylphenol	µg/Kg	7582 ± 228
2-Chloronaphthalene	µg/Kg	2223 ± 168
2-Chlorophenol	µg/Kg	1678 ± 202
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	µg/Kg	5148 ± 685
2-Methylphenol (o-Cresol)	µg/Kg	6004 ± 573
2-Nitrophenol	µg/Kg	6456 ± 383
3,4-Dimethylphenol	µg/Kg	7185 ± 216
3+4-Methylphenol (m+p-Cresol)	µg/Kg	8033 ± 1613
4-Bromophenyl phenyl ether (BDE-3)	µg/Kg	7169 ± 310
4-Chloro-3-methylphenol	µg/Kg	2071 ± 110
4-Chlorophenyl phenylether	µg/Kg	2052 ± 113
4-Methylphenol (p-Cresol)	µg/Kg	6617 ± 1371
4-Nitrophenol	µg/Kg	6812 ± 595
Acenaphthene	µg/Kg	5489 ± 380

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER

SIGMA-ALDRICH®
2931 Soldier Springs Rd. Laramie, Wyoming 82070 USA
800-325-5832
TechService@milliporesigma.com www.sigma-aldrich.com

Description

Lot LRAC8918
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Acenaphthylene	µg/Kg	1948 ± 240
Anthracene	µg/Kg	2866 ± 237
Benzo(a)anthracene	µg/Kg	5751 ± 552
Benzo(a)pyrene	µg/Kg	5902 ± 612
Benzo(b)fluoranthene	µg/Kg	3010 ± 409
Benzo(b+k)fluoranthene	µg/Kg	6534 ± 196
Benzo(g,h,i)perylene	µg/Kg	1380 ± 136
Benzo(k)fluoranthene	µg/Kg	2215 ± 237
Butyl benzyl phthalate	µg/Kg	3511 ± 384
Carbazole	µg/Kg	5412 ± 407
Chrysene	µg/Kg	1477 ± 72
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	µg/Kg	2905 ± 321
Dibenzo(a,h)anthracene	µg/Kg	3420 ± 302
Dibenzofuran	µg/Kg	6130 ± 253
Dimethyl phthalate	µg/Kg	4537 ± 250
Di-n-butyl phthalate	µg/Kg	1721 ± 154
Di-n-octyl phthalate	µg/Kg	2744 ± 288
Fluoranthene	µg/Kg	2497 ± 222
Fluorene	µg/Kg	3724 ± 222
Hexachlorobutadiene	µg/Kg	1877 ± 245
Indeno(1,2,3-cd) pyrene	µg/Kg	3914 ± 409
Isophorone	µg/Kg	1615 ± 170
Naphthalene	µg/Kg	4458 ± 480
Nitrobenzene	µg/Kg	3539 ± 266
n-Nitrosodimethylamine	µg/Kg	1580 ± 402
n-Nitrosodiphenylamine	µg/Kg	2854 ± 379
Pentachlorophenol	µg/Kg	3411 ± 358
Phenanthrene	µg/Kg	5052 ± 385
Phenol	µg/Kg	2660 ± 184
Pyrene	µg/Kg	2964 ± 256
Pyridine	µg/Kg	1008 ± 30

Informational Values

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER

Certificate of Analysis

BNAs - Sandy Loam 1

Certified Reference Material

Description

Product ID CRM143-50G
Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Analyte	*Units*	*Suggested Acceptance Windows*	*Standard Deviation*
1,2,4-Trichlorobenzene	µg/Kg	148 to 2853	459
1,3-Dichlorobenzene (m-Dichlorobenzene)	µg/Kg	163 to 3440	605
1-Chloronaphthalene	µg/Kg	1123 to 4494	562
2,3-Dimethylphenol	µg/Kg	1821 to 7284	910
2,4,5-Trichlorophenol	µg/Kg	1003 to 5872	811
2,4,6-Trichlorophenol	µg/Kg	640 to 3748	518
2,4-Dichlorophenol	µg/Kg	2391 to 11591	1533
2,4-Dimethylphenol	µg/Kg	0.00 to 13959	2534
2,4-Dinitrophenol	µg/Kg	1169 to 4675	584
2,4-Dinitrotoluene (2,4-DNT)	µg/Kg	1248 to 5388	690
2,6-Dichlorophenol	µg/Kg	1831 to 7324	916
2,6-Dimethylphenol	µg/Kg	3033 to 12132	1516
2-Chloronaphthalene	µg/Kg	748 to 3699	492
2-Chlorophenol	µg/Kg	415 to 2942	421
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	µg/Kg	0.00 to 10347	1733
2-Methylphenol (o-Cresol)	µg/Kg	1306 to 10702	1566
2-Nitrophenol	µg/Kg	1534 to 11379	1641
3,4-Dimethylphenol	µg/Kg	2874 to 11495	1437
3+4-Methylphenol (m+p-Cresol)	µg/Kg	4054 to 16218	2027
4-Bromophenyl phenyl ether (BDE-3)	µg/Kg	2901 to 11437	1423
4-Chloro-3-methylphenol	µg/Kg	677 to 3464	464
4-Chlorophenyl phenylether	µg/Kg	756 to 3348	432
4-Methylphenol (p-Cresol)	µg/Kg	2647 to 10587	1323
4-Nitrophenol	µg/Kg	681 to 14762	2650
Acenaphthene	µg/Kg	2243 to 8736	1082
Acenaphthylene	µg/Kg	712 to 3183	412
Anthracene	µg/Kg	1218 to 4515	550
Benzo(a)anthracene	µg/Kg	2806 to 8696	982
Benzo(a)pyrene	µg/Kg	2512 to 9292	1130
Benzo(b)fluoranthene	µg/Kg	1197 to 4822	604
Benzo(b+k)fluoranthene	µg/Kg	2614 to 10454	1307

Description

Lot LRAC8918
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Benzo(g,h,i)perylene	µg/Kg	489 to 2271	297
Benzo(k)fluoranthene	µg/Kg	892 to 3537	441
Butyl benzyl phthalate	µg/Kg	1255 to 5766	752
Carbazole	µg/Kg	2032 to 8792	1127
Chrysene	µg/Kg	669 to 2284	269
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	µg/Kg	765 to 5045	713
Dibenzo(a,h)anthracene	µg/Kg	1257 to 5583	721
Dibenzofuran	µg/Kg	2766 to 9493	1121
Dimethyl phthalate	µg/Kg	1842 to 7231	898
Di-n-butyl phthalate	µg/Kg	495 to 2947	409
Di-n-octyl phthalate	µg/Kg	690 to 4798	685
Fluoranthene	µg/Kg	984 to 4009	504
Fluorene	µg/Kg	1638 to 5810	695
Hexachlorobutadiene	µg/Kg	425 to 3329	484
Indeno(1,2,3-cd) pyrene	µg/Kg	870 to 6957	1015
Isophorone	µg/Kg	437 to 2792	392
Naphthalene	µg/Kg	1131 to 7784	1109
Nitrobenzene	µg/Kg	1024 to 6054	838
n-Nitrosodimethylamine	µg/Kg	632 to 2528	316
n-Nitrosodiphenylamine	µg/Kg	1142 to 4567	571
Pentachlorophenol	µg/Kg	341 to 7037	1209
Phenanthrene	µg/Kg	2307 to 7798	915
Phenol	µg/Kg	681 to 4639	660
Pyrene	µg/Kg	1118 to 4810	615
Pyridine	µg/Kg	403 to 1613	202

Additional Information:

DESCRIPTION

The organic sample is a soil containing extractable BNAs for analysis by 8100, 8270, 8310 or equivalent methods.

This product consist of a 5 vials each containing 10g of soil for analysis of PAHs. Each vial is identical and has been tested how homogeneity. Only one vial is need for test the remaining vials are to be used for multiple methods or routine testing.

The soil has been sterilized to minimize degradation of the sample.

The sample has been sized to 100 mesh.

Required storage condition is 4ºC.

The sample has been intentionally prepared with an apparent headspace.

STORAGE

The sample should be stored at 4ºC. It has been determined to be stable for the duration of the expiration date.

After sub-sampling replace cap securely and store remaining sample at 4ºC.

The shelf life of the product was determined by historic stability of similar CRM's. The expiration date may be extended based on stock and popularity upon successful stability testing by a 17025 accredited laboratory.

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER

Certificate of Analysis

BNAs - Sandy Loam 1

Certified Reference Material

Description

Product ID CRM143-50G
Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Stability and shelf life after opening must be determined by the user, taking into account sampling frequency/volume and all local conditions.

SAMPLE PREPARATION

Extract the complete contents of a single vial. Transfer entire contents of one vial to extraction vessel. Rinse vial and cap with extraction solvent.

Assume a 10g sample size for all calculations.

Note: Sample extracts and calibration solutions should be in the same solvent.

Report all results on a wet weight basis, do not correct for moisture.

NOTE: For method 8100 and using a packed column gas chromatographic method or cannot adequately resolve the following may coelute in four pairs of compounds: anthracene and phenanthrene; chrysene and benzo(a)anthracene; benzo(b)fluoranthene and benzo(k)fluoranthene; and dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene.

SCOPE AND APPLICATION

The BNAs in Soil Certified Reference Material (CRM) consists of 5 10mL VOA vials, with a Teflon lined closures containing approximately 10 grams of soil, fortified with BNAs. Being a natural matrix waste sample the analyst is challenged by the same preparation problems, analytical interferences, etc. as is typical for similar matrices received by the laboratory for analysis.

Description

Lot LRAC8918
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

1 **Metrological traceability:** Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.
4 Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. K=2 unless specified. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{\text{hom}\ ogeneity}^2 + u_{stability}^2}$$

k: Coverage factor derived from a t-distribution table, based on the degrees of freedom of the data set. Assume 2.0 for a **Confidence Interval = 95%**

6 Analytical Value- For QC verification of the certified value only- not to be used in calculations. Represents the analytical data obtained by comparison to a standard as analyzed by the method described in the CoA or another acceptable method. The result may differ from the certified value and UCRM based on method uncertainty as well as the uncertainty associated with the standard used for comparison.

Traceability: The standard was manufactured under an ISO/IEC 17025:2017 certified quality system. The balance used to weigh raw materials is accurate to +/- 0.0001g and calibrated regularly using mass standards traceable to NIST. All dilutions were preformed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Homogeneity: Homogeneity was assessed in accordance with ISO 17034:2016. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared using a one-way analysis of variance approach as described by TNI EL-V3-2009 Appendix A.2. See Instructions for minimum sub-sample size.

Expiration is at end of month given on certificate and label.

MSDS reports for components comprising greater than 1.0% of the solution or 0.1% for components known to be carcinogens are available upon request.

THIS PRODUCT WAS DESIGNED, PRODUCED AND VERIFIED FOR ACCURACY AND STABILITY IN ACCORDANCE WITH **ISO/IEC 17025:2017 (ANAB Cert AT-1467)** and **ISO 17034:2016 (ANAB Cert AR-1470).**

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Certification Date January 05, 2021
Version 0-152021

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

Certificate of Analysis

phenova Certified Reference Materials | A Phenomenex Company

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Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101246
Description: Benzoic Acid
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL16693
Certification Date: May 6, 2021
Expiration Date: April 30, 2031

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzoic acid	65-85-0	2000	± 4.383%

K3238

A2LA ACCREDITED
Reference Material Producer
Certicate No. 2427.02

phenova Certified Reference Materials | A Phenomenex Company

Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

A2LA ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64691018_us

Certificate of Analysis

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at www.phenova.com/documents.

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 25 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Certificate of Analysis

phenova Certified Reference Materials | A Phenomenex Company

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101443
Description: Aniline
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL17696
Certification Date: December 14, 2021
Expiration Date: December 31, 2029

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aniline	62-53-3	1000	± 0.760%

K 3239

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

phenova Certified Reference Materials | A Phenomenex Company

Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64691018_us

Certificate of Analysis

Produced by Phenova
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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Certificate of Analysis

Phenova Certified Reference Materials are sold by Phenomenex.
411 Madrid Ave., Torrance, CA 90501 USA ▪ Tel: 310-212-0555 ▪ Fax: 310-328-7768 ▪ info@phenomenex.com
Access your MSDS and digital C of A at **www.phenomenex.com/mysupport. Re-order at www.phenomenex.com/standards**

Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.:	AL0-101291	**Lot Number:**	CL11000
Description:	GC/MS Tuning Mix	**Certification Date:**	May 9, 2014
Storage:	4 °C	**Expiration Date:**	December 31, 2023
Provided As:	1 mL in 2 mL Ampoule in Methylene chloride	**Revision Date:**	August 5, 2015

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty (%)
Benzidine	92-87-5	1000	± 0.208%
Decafluorotriphenylphosphine (DFTPP)	5074-71-5	1000	± 0.057%
4,4'-DDT	50-29-3	1000	± 0.056%
Pentachlorophenol	87-86-5	1000	± 0.061%

K003891
GC/MS Tune solution-1000ug/ml
Solvent / Lot: CL11000
Prep: 4/22/2022 by VS
Exp: 12/31/2023
Location:

ACCREDITED
Reference Material Producer
Certificate No. 2427.02

phenova® Certified Reference Materials

Manufactured by Phenova, Inc.
Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ilac-MRA ACCREDITED
Chemical Testing Laboratory
Certificate No. 2427.03

IL111106/13_us

Reference Materials Producer
Cert #2495.01

Certificate of Analysis

Chemical Testing
Cert #2495.02

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This **SPEXOrganics**® Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:

Compound	CAS #	Labeled	Purity	Certified†	Uncertainty
1,2,4-Trichlorobenzene	120-82-1	2000 µg/mL	99%	2010 µg/mL	± 50 µg/mL
1,2-Dichlorobenzene	95-50-1	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
1,3-Dichlorobenzene	541-73-1	2000 µg/mL	98%	2021 µg/mL	± 51 µg/mL
1,4-Dichlorobenzene	106-46-7	2000 µg/mL	99%	2012 µg/mL	± 50 µg/mL
2,4-Dinitrotoluene	121-14-2	2000 µg/mL	97%	2006 µg/mL	± 50 µg/mL
2,6-Dinitrotoluene	606-20-2	2000 µg/mL	99.6%	2012 µg/mL	± 50 µg/mL
2-Chloronaphthalene	91-58-7	2000 µg/mL	98%	2004 µg/mL	± 50 µg/mL
4-Bromodiphenyl ether	101-55-3	2000 µg/mL	99%	2022 µg/mL	± 51 µg/mL
4-Chlorophenyl-phenyl ether	7005-72-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Azobenzene	103-33-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Bis(2-chloro-1-methylethyl) ether	108-60-1	2000 µg/mL	98.9%	2010 µg/mL	± 50 µg/mL
bis(2-Chloroethoxy)methane	111-91-1	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
bis(2-Chloroethyl)ether	111-44-4	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
Bis(2-Ethylhexyl)phthalate	117-81-7	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Butylbenzyl phthalate	85-68-7	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
Carbazole	86-74-8	2000 µg/mL	95%	2009 µg/mL	± 50 µg/mL
Di-n-butyl phthalate	84-74-2	2000 µg/mL	99%	2020 µg/mL	± 50 µg/mL
Di-n-octyl phthalate	117-84-0	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
Diethyl phthalate	84-66-2	2000 µg/mL	99.5%	2002 µg/mL	± 50 µg/mL
Dimethyl phthalate	131-11-3	2000 µg/mL	99%	2006 µg/mL	± 50 µg/mL
Hexachlorobenzene	118-74-1	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Hexachlorobutadiene	87-68-3	2000 µg/mL	97%	2003 µg/mL	± 50 µg/mL
Hexachlorocyclopentadiene	77-47-4	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Hexachloroethane	67-72-1	2000 µg/mL	98%	2003 µg/mL	± 50 µg/mL
Isophorone	78-59-1	2000 µg/mL	97%	2003 µg/mL	± 50 µg/mL
N-Nitrosodi-n-propylamine	621-64-7	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
N-Nitrosodiphenylamine	86-30-6	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
Nitrobenzene	98-95-3	2000 µg/mL	99%	2001 µg/mL	± 50 µg/mL
Pyridine	110-86-1	2000 µg/mL	99%	2004 µg/mL	± 50 µg/mL
N-Nitrosodimethylamine	62-75-9	2000 µg/mL	97%	2000 µg/mL	± 50 µg/mL

Certificate of Reference Material

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

Final Solution Verification:

Final solution integrity verified by Gas Chromatography/Mass Spectrometry. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration based on gravimetric weights and corrected for the purity of the compound(s) used to prepare the standard. Analytical balance calibration is verified daily with C1 weight set #23-190006 which is registered with Atlantic Scale, and traceable to NIST and NJ Division of Weights and Measures.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: 1-26-2021 Certifying Officer: Shannon Mora

Report of Certification

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This Certified Reference Material (CRM) has been prepared and certified under an ISO 9001:2008, ISO 17025:2005, and ISO Guide 34:2009 Quality System consistent with the following standards:

- ISO 9001:2008: Quality management systems - Requirements - Certified by UL-DQS
- ISO 17025:2005: General Requirements for the Competence of Testing and Calibration Laboratories - Accredited by A2LA
- ISO Guide 34:2009: General Requirements for the Competence of Reference Material Producers - Accredited by A2LA
- ISO Guide 31:2000: Reference Materials - Contents of Certificates and Labels
- ISO Guide 35:2006: Reference Materials - General and statistical principals for certification
- Guide to the Expression of Uncertainty in Measurement 1997
- EURACHEM/CITAC Guide: Qualifying Uncertainty in Analytical Measurements - Second Edition
- ASTM Guide D6362-98
- NIST Technical Note 1297
- ILAC-G12-2000: Guidelines for the requirements for the competence of reference material producers
- ISO/REMCO N280

Storage Requirements:

To ensure the stability of the product once it arrives in your laboratory , please store this product in a refrigerator (2°C to 8°C). Note: Shipping conditions may differ from storage conditions. The EXPIRATION DATE is calculated from the MANUFACTURED DATE using our stability data and is applicable only if the product is unopened and stored under the prescribed conditions.

Instructions for Use:

Let material come to room temperature before use. Check for precipitate and if necessary sonicate for one minute. If compounds do not dissolve after one minute then sonicate further until the product is dissolved. A clear appearance is acceptable. The minimum recommended amount that should be removed from this vial is 5 µL with a 25µL gas tight syringe. All solutions should be thoroughly mixed, by shaking, prior to use. All surfaces that come in contact with the solution must be thoroughly cleaned prior to use. Dilutions should be performed only with Class A volumetric glassware.

Material Source:

All analytes and matrix materials are obtained and verified by SPEX CertiPrep from pre-qualified vendors as per ISO guidelines. Vendor identifications are proprietary, however sources of all materials used in the preparation and testing of SPEX CertiPrep CRMs are tracked and documented. For assistance, please contact sales support at crmsales@spexcsp.com.

Method of Preparation:

Clean laboratory procedures and techniques have been used throughout the preparation. All materials, equipment, and analytical instrumentation have been qualified prior to use. The highest purity solvents and Class A / calibrated volumetrics have been been used in all preparations.

Homogeneity:

The homogeneity of this CRM has been confirmed by procedures consistent with ISO 17025:2005, ISO Guide 34:2009, and ASTM D6362-98 Appendix X2. Random, replicate samples of the final, packaged material have been analyzed to prove homogeneity in accordance with our internal procedure 4300-HOMOGEN-1A. This is consistent with the intended use of this CRM. The Degree of Homogeneity, as expressed as maximum between-bottle variation, is 1.2%

Statistical Estimator and Confidence Limits:

The Certified value 'X' as listed on the reverse of this document is at the 95% level of confidence and can be expressed as:

- $X = x \pm U$ where X=certified value, U=expanded uncertainty, x=property value
- $U = ku_c$ where k=2 is the coverage factor at the 95% confidence level
- u_c = combined standard uncertainty obtained by combining the individual compound standard uncertainty components u_i, where $u_c = \sqrt{\sum u_i^2}$

Legal Notice:

SPEX CertiPrep Certified Reference Materials are not for any cosmetic, drug, or household application and are to be used only by qualified individuals who are trained in appropriate procedures. No claims against SPEX CertiPrep of any kind whatsoever, whether based on breech of warranty, alleged negligence, or otherwise, with respect to this Reference Material shall be greater than the purchase price. In no event shall SPEX CertiPrep be liable for any loss of profits or any incidental, special, or consequential damages.

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Phone: 1-732-549-7144 • Fax 1-732-603-9647

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ACCREDITED
Reference Materials Producer
Cert #2495.01

ECS

Certificate of Analysis

ilac-MRA ACCREDITED
Chemical Testing
Cert #2495.02

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This **SPEXOrganics®** Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:

Compound	CAS #	Labeled	Purity	Certified†	Uncertainty
1,2,4-Trichlorobenzene	120-82-1	2000 µg/mL	99%	2010 µg/mL	± 50 µg/mL
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Bis(2-chloro-1-methylethyl) ether	108-60-1	2000 µg/mL	98.9%	2010 µg/mL	± 50 µg/mL
bis(2-Chloroethoxy)methane	111-91-1	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
bis(2-Chloroethyl)ether	111-44-4	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
Bis(2-Ethylhexyl)phthalate	117-81-7	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
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N-Nitrosodiphenylamine	86-30-6	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
Nitrobenzene	98-95-3	2000 µg/mL	99%	2001 µg/mL	± 50 µg/mL
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N-Nitrosodimethylamine	62-75-9	2000 µg/mL	97%	2000 µg/mL	± 50 µg/mL

K004542

Certificate of Reference Material

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

Final Solution Verification:

Final solution integrity verified by Gas Chromatography/Mass Spectrometry. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration based on gravimetric weights and corrected for the purity of the compound(s) used to prepare the standard. Analytical balance calibration is verified daily with C1 weight set #23-190006 which is registered with Atlantic Scale, and traceable to NIST and NJ Division of Weights and Measures.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: 1-26-2021 Certifying Officer: Shannon Nave

Report of Certification

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This Certified Reference Material (CRM) has been prepared and certified under an ISO 9001:2008, ISO 17025:2005, and ISO Guide 34:2009 Quality System consistent with the following standards:

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- ISO/REMCO N280

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Instructions for Use:

Let material come to room temperature before use. Check for precipitate and if necessary sonicate for one minute. If compounds do not dissolve after one minute then sonicate further until the product is dissolved. A clear appearance is acceptable. The minimum recommended amount that should be removed from this vial is 5µL with a 25µL gas tight syringe. All solutions should be thoroughly mixed, by shaking, prior to use. All surfaces that come in contact with the solution must be thoroughly cleaned prior to use. Dilutions should be performed only with Class A volumetric glassware.

Material Source:

All analytes and matrix materials are obtained and verified by SPEX CertiPrep from pre-qualified vendors as per ISO guidelines. Vendor identifications are proprietary, however sources of all materials used in the preparation and testing of SPEX CertiPrep CRMs are tracked and documented. For assistance, please contact sales support at crmsales@spexcsp.com.

Method of Preparation:

Clean laboratory procedures and techniques have been used throughout the preparation. All materials, equipment, and analytical instrumentation have been qualified prior to use. The highest purity solvents and Class A / calibrated volumetrics have been been used in all preparations.

Homogeneity:

The homogeneity of this CRM has been confirmed by procedures consistent with ISO 17025:2005, ISO Guide 34:2009, and ASTM D6362-98 Appendix X2. Random, replicate samples of the final, packaged material have been analyzed to prove homogeneity in accordance with our internal procedure 4300-HOMOGEN-1A. This is consistent with the intended use of this CRM. The Degree of Homogeneity, as expressed as maximum between-bottle variation, is 1.2%

Statistical Estimator and Confidence Limits:

The Certified value 'X' as listed on the reverse of this document is at the 95% level of confidence and can be expressed as:

- $X = x \pm U$ where X=certified value, U=expanded uncertainty, x=property value
- $U = ku_c$ where k=2 is the coverage factor at the 95% confidence level
- u_c = combined standard uncertainty obtained by combining the individual compound standard uncertainty components u_i where $u_c = \sqrt{\sum u_i^2}$

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Agilent

Certificate of Analysis

Product Name: Toxic Substances Standard

Product Number: US-104N-1 **Lot Issue Date:** 02-Jul-2021

Lot Number: 0006620643 **Expiration Date:** 31-Jul-2023

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
aniline	000062-53-3	RM12853	2005 ± 10 µg/mL
benzyl alcohol	000100-51-6	RM10547	2004 ± 10 µg/mL
4-chloroaniline	000106-47-8	RM01886	2002 ± 10 µg/mL
dibenzofuran	000132-64-9	RM02077	2002 ± 10 µg/mL
2-methylnaphthalene	000091-57-6	RM01258	2006 ± 10 µg/mL
2-nitroaniline	000088-74-4	RM02402	2003 ± 10 µg/mL
3-nitroaniline	000099-09-2	RM02424	2003 ± 10 µg/mL
4-nitroaniline	000100-01-6	RM02425	2003 ± 10 µg/mL

Matrix: methylene chloride (dichloromethane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

K004544
toxic sub mix#2
Solvent / Lot: methylene chloride
Prep: 5/11/2022 by JZ
Exp: 7/31/2023
Location:

05/11/22

ANAB ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31493 **Lot No.:** A0181243

Description : CLP 04.1 BNA Surrogate Mix

CLP 04.1 BNA Surrogate Mix 1000-1500 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2025 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

05/11/22

K004545
CLP 04.1 BNA SURR MIX
Solvent / Lot: AO175316
Prep: 5/11/2022 by JZ
Exp: 10/20/2025
Location:

Elution Order	Compound		Gr (weig					
1	2-Fluorophenol **CAS #** 367-12-4 **Purity** 99%	(Lot STBJ2508)	1,50		+/- +/-	53.3632	µg/mL	Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99%	(Lot PR-31262)	1,506.0	µg/mL	+/- +/- +/-	8.9452 43.9882 53.3632	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	2-Chlorophenol-d4 **CAS #** 93951-73-6 **Purity** 99%	(Lot PR-30568)	1,510.0	µg/mL	+/- +/- +/-	8.9689 44.1050 53.5049	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	1,2-Dichlorobenzene-d4 **CAS #** 2199-69-1 **Purity** 99%	(Lot PR-32542/022621DB1	1,004.0	µg/mL	+/- +/- +/-	5.9635 29.3255 35.5754	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Nitrobenzene-d5 **CAS #** 4165-60-0 **Purity** 99%	(Lot PR-29940A)	1,008.0	µg/mL	+/- +/- +/-	5.9872 29.4423 35.7172	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	2-Fluorobiphenyl **CAS #** 321-60-8 **Purity** 99%	(Lot 19169)	1,006.0	µg/mL	+/- +/- +/-	5.9753 29.3839 35.6463	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99%	(Lot MKCJ7664)	1,506.0	µg/mL	+/- +/- +/-	8.9452 43.9882 53.3632	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

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Certified Reference Material

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Catalog No.:	AL0-101246	**Lot Number:**	CL17953
Description:	Benzoic Acid	**Certification Date:**	January 31, 2022
Storage:	4 °C	**Expiration Date:**	January 31, 2032
Provided As:	1 mL in 2 mL Ampoule in Methylene Chloride		

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzoic acid	65-85-0	2000	± 2.714%

K004603
Benzoic Acid @2000ug/ml
Solvent / Lot: N/A
Prep: 5/13/2022 by JZ
Exp: 1/31/2032
Location: GC

5/13/22

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Certified Reference Material

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Catalog No.: AL0-101244
Description: Benzidines Standard
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL17662
Certification Date: December 2, 2021
Expiration Date: November 30, 2031

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzidine	92-87-5	2000	± 0.211%
3,3'-Dichlorobenzidine	91-94-1	2000	± 1.305%

K004604
Benzidines std @2000ug/ml
Solvent / Lot: MeCl2
Prep: 5/13/2022 by JZ
Exp: 11/30/2031
Location: GC

5/13/22

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

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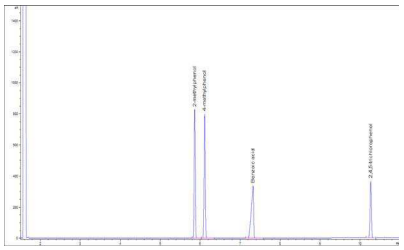
ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64691018_us

Certificate of Analysis - Certified Reference Material

EPA TCL Hazardous Substances Mix 1

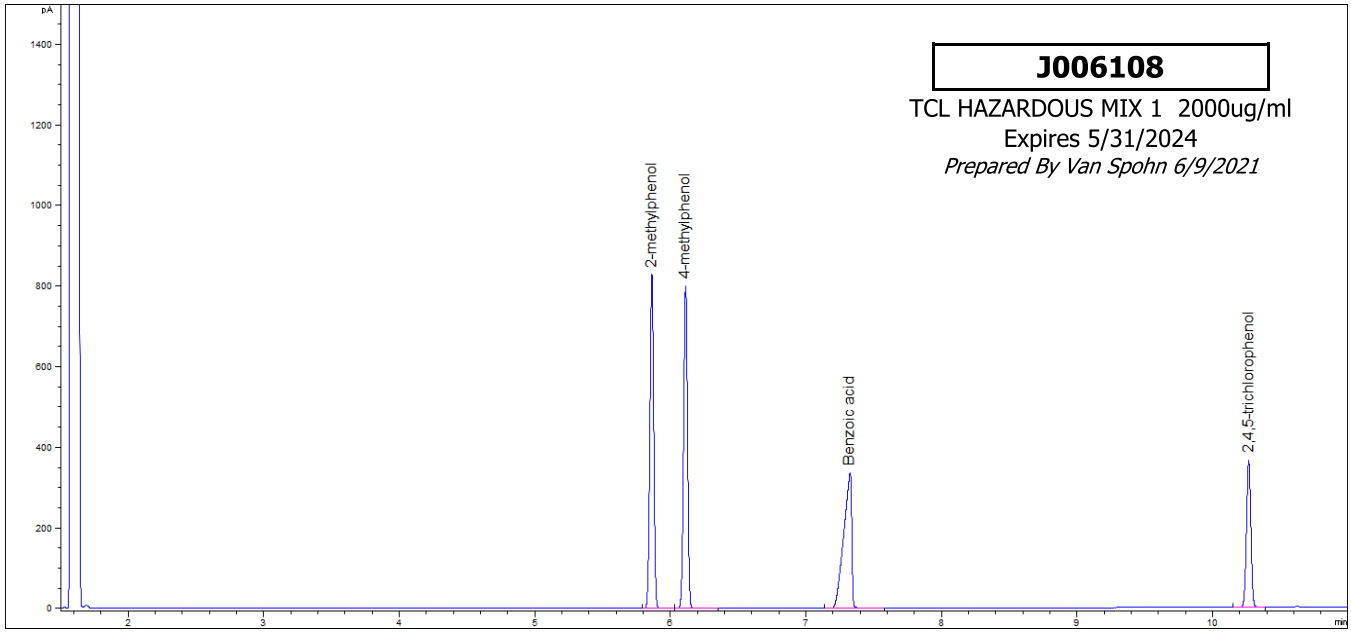
Product no.: 48907
Lot no.: LRAC9610
Expiry Date: May 2024
Manufacturing Date: May 2021
Storage: Refrigerate
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAC9610.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*



Certified Values:

Analyte	*Certified Value*	*Units*	*Raw Material Purity,%*	*Elution order*	*Raw Material Lot*
2-METHYLPHENOL CAS# 95-48-7	2004 ± 9	µg/mL	99.0	1	G1735A
4-METHYLPHENOL CAS# 106-44-5	2004 ± 13	µg/mL	98.9	2	06921MG
BENZOIC ACID CAS# 65-85-0	2012 ± 6	µg/mL	99.9	3	LC16514
2,4,5-TRICHLOROPHENOL CAS# 95-95-4	2003 ± 6	µg/mL	99.9	4	JS00008

Informational Values:



Additional Information:
Analytical Method Parameters:
Column: Equity-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness (Column #98)
Carrier Gas: H2, Flow: 4.5 mL/min
Inlet Temperature: 170 °C, Injection Volume: 1 µL
Injection Mode: Split, Split Ratio: 20:1

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Temperature Program: 80 °C @ 10 °C/min to 190 °C (Hold 5 min)
Detector: FID
Detector Temperature: 310 °C

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 20-May-2021

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Details on metrological traceability: This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty: Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{\text{hom}\ ogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment: Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAC9610.01	20-May-2021	Original Release Date

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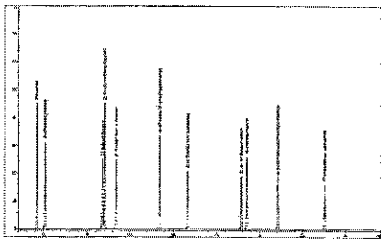
Certificate of Analysis - Certified Reference Material

EPA TCL Phenols Mix

Product no.: 48904
Lot no.: LRAD0139
Expiry Date: July 2024
Manufacturing Date: July 2021
Storage: REFRIGERATE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD0139.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*



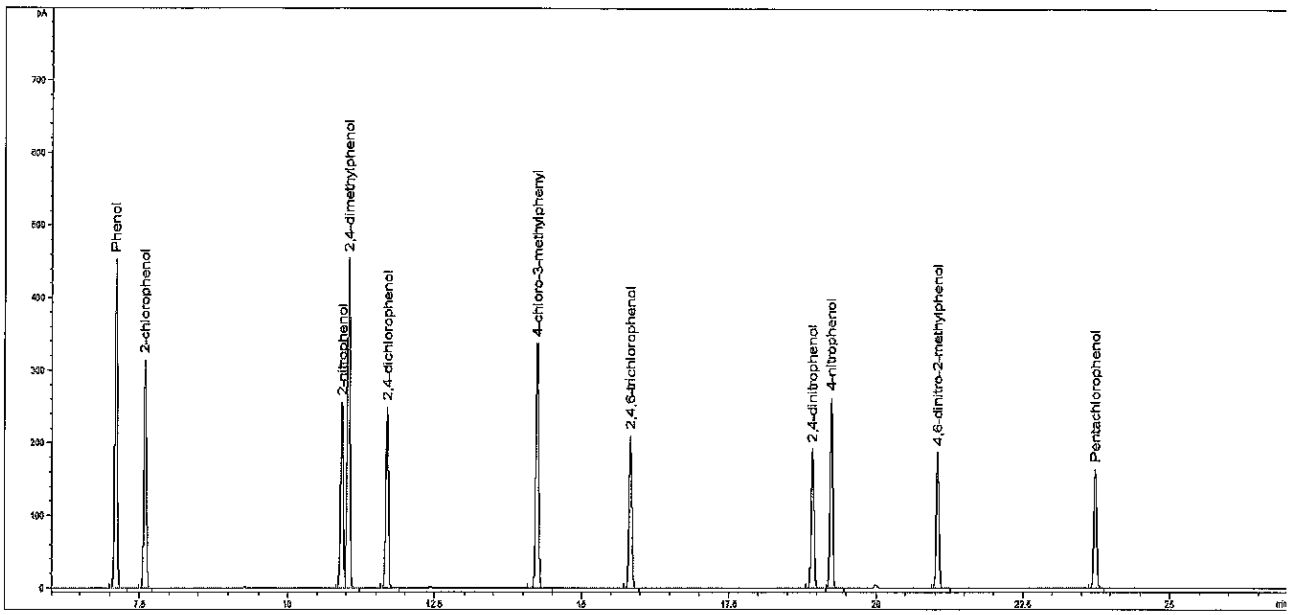
Certified Values:

Analyte	*Certified Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
2-CHLOROPHENOL CAS# 95-57-8	2001 ± 25	µg/mL	99.9	STBG3033V
2-NITROPHENOL CAS# 88-75-5	1999 ± 18	µg/mL	99.3	15905BB
2,4-DIMETHYLPHENOL CAS# 105-67-9	2000 ± 14	µg/mL	99.2	05421CO
2,4-DICHLOROPHENOL CAS# 120-83-2	2000 ± 17	µg/mL	99.5	03221TN
4-CHLORO-3-METHYLPHENOL CAS# 59-50-7	2000 ± 5	µg/mL	99.9	JS00013
2,4,6-TRICHLOROPHENOL CAS# 88-06-2	2002 ± 5	µg/mL	99.5	04212PS
2,4-DINITROPHENOL CAS# 51-28-5	2000 ± 28	µg/mL	66.9	STBJ5751
4-NITROPHENOL CAS# 100-02-7	2000 ± 33	µg/mL	99.0	04628LT
2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1	2000 ± 27	µg/mL	99.7	LC18338
PENTACHLOROPHENOL CAS# 87-86-5	1999 ± 25	µg/mL	97.9	MKCD2150

ASSAY Method

J013597
TCL Phenols Mix 2000ug/ml
Solvent / Lot: LRAD0139
Prep: 12/30/2021 by VS
Exp: 7/31/2024
Location:

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.



METHOD: GC (Bellefonte Method)

Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness
Carrier Gas: H_2 Flow Rate: 4.5 mL/min
Inlet Temperature: 200 °C Injection Volume: 1.0 µL
Injection Mode: 25:1
Temperature Program: 80 °C (Hold 2 min) @ 6 °C/min to 260 °C (Hold 5 min)
Detector: FID Temperature: 310 °C

Elution details:

EO	RT(MIN)	ANALYTE
1	7.095	Phenol
2	7.585	2-chlorophenol
3	10.925	2-nitrophenol
4	11.037	2,4-dimethylphenol
5	11.696	2,4-dichlorphenol
6	14.242	4-chloro-3-m3thylphenol
7	15.842	2,4,6-trichlorophenol
8	18.93	2,4-dinitrophenol
9	19.25	4-nitrophenol
10	21.05	4,6-dinitro-2-methylphenol
11	23.752	Pentachlorophenol

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 12-Jul-2021

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Details on metrological traceability: This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty: Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{hom\ ogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment: Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD0139.01	12-Jul-2021	Original Release Date

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Certificate of Analysis

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Certified Reference Material

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Catalog No.: AL0-101444
Description: 8270 Calibration Standard
Storage: -18 °C
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Lot Number: CL18355
Certification Date: July 25, 2022
Expiration Date: August 31, 2023

K007995
SVOA-8270 LCS MIX 1000ug/ml
Solvent / Lot: N/A
Prep: 8/29/2022 by JZ
Exp: 8/31/2023
Location: FREEZER 44

Aaron Dukes, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Acenaphthene	83-32-9	1000	± 0.300%
Acenaphthylene	208-96-8	1000	± 0.225%
Anthracene	120-12-7	1000	± 6.858%
Azobenzene	103-33-3	1000	± 0.224%
Benzo(a)anthracene	56-55-3	1000	± 0.247%
Benzo(a)pyrene	50-32-8	1000	± 0.270%
Benzo(b)fluoranthene	205-99-2	1000	± 0.635%
Benzo(k)fluoranthene	207-08-9	1000	± 0.682%
Benzo(g,h,i)perylene	191-24-2	1000	± 0.272%
Benzyl alcohol	100-51-6	1000	± 0.231%
Benzyl butyl phthalate	85-68-7	1000	± 0.480%
bis(2-Chloroethoxy)methane	111-91-1	1000	± 0.479%
bis(2-Chloroethyl) ether	111-44-4	1000	± 0.479%
bis(2-Chloroisopropyl) ether	108-60-1	1000	± 0.550%
bis(2-Ethylhexyl) adipate	103-23-1	1000	± 0.479%
bis(2-Ethylhexyl) phthalate	117-81-7	1000	± 0.479%
4-Bromophenyl phenyl ether	101-55-3	1000	± 0.479%
Carbazole	86-74-8	1000	± 0.146%

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Lot Number: CL18355
Description: 8270 Calibration Standard
Certification Date: July 25, 2022
Storage: -18 °C
Expiration Date: August 31, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
4-Chloroaniline	106-47-8	1000	± 0.300%
4-Chloro-3-methylphenol	59-50-7	1000	± 0.545%
2-Chloronaphthalene	91-58-7	1000	± 0.224%
2-Chlorophenol	95-57-8	1000	± 0.507%
4-Chlorophenyl phenyl ether	7005-72-3	1000	± 0.479%
Chrysene	218-01-9	1000	± 0.145%
Dibenz(a,h)anthracene	53-70-3	1000	± 1.058%
Dibenzofuran	132-64-9	1000	± 0.302%
Di-n-butyl phthalate	84-74-2	1000	± 0.518%
1,2-Dichlorobenzene	95-50-1	1000	± 0.247%
1,3-Dichlorobenzene	541-73-1	1000	± 0.225%
1,4-Dichlorobenzene	106-46-7	1000	± 0.224%
2,4-Dichlorophenol	120-83-2	1000	± 0.545%
Diethyl phthalate	84-66-2	1000	± 0.518%
2,4-Dimethylphenol	105-67-9	1000	± 0.507%
Dimethyl phthalate	131-11-3	1000	± 0.518%
1,2-Dinitrobenzene	528-29-0	1000	± 0.361%
1,3-Dinitrobenzene	99-65-0	1000	± 0.300%
1,4-Dinitrobenzene	100-25-4	1000	± 0.242%
2,4-Dinitrophenol	51-28-5	1000	± 0.545%
2,4-Dinitrotoluene	121-14-2	1000	± 1.128%

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Lot Number: CL18355
Description: 8270 Calibration Standard
Certification Date: July 25, 2022
Storage: -18 °C
Expiration Date: August 31, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2,6-Dinitrotoluene	606-20-2	1000	± 0.224%
Di-n-octyl phthalate	117-84-0	1000	± 0.486%
Fluoranthene	206-44-0	1000	± 0.224%
Fluorene	86-73-7	1000	± 0.224%
Hexachlorobenzene	118-74-1	1000	± 0.152%
Hexachlorobutadiene	87-68-3	1000	± 0.746%
Hexachlorocyclopentadiene	77-47-4	1000	± 0.153%
Hexachloroethane	67-72-1	1000	± 0.300%
Indeno(1,2,3-cd)pyrene	193-39-5	1000	± 0.883%
Isophorone	78-59-1	1000	± 0.145%
2-Methyl-4,6-dinitrophenol	534-52-1	1000	± 0.508%
1-Methylnaphthalene	90-12-0	1000	± 0.479%
2-Methylnaphthalene	91-57-6	1000	± 0.487%
2-Methylphenol	95-48-7	1000	± 0.545%
3-Methylphenol	108-39-4	500	± 0.279%
4-Methylphenol	106-44-5	500	± 0.399%
Naphthalene	91-20-3	1000	± 0.226%
2-Nitroaniline	88-74-4	1000	± 0.224%
3-Nitroaniline	99-09-2	1000	± 0.235%
4-Nitroaniline	100-01-6	1000	± 0.300%
Nitrobenzene	98-95-3	1000	± 0.300%

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Lot Number: CL18355
Description: 8270 Calibration Standard
Certification Date: July 25, 2022
Storage: -18 °C
Expiration Date: August 31, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2-Nitrophenol	88-75-5	1000	± 0.514%
4-Nitrophenol	100-02-7	1000	± 0.519%
N-Nitrosodimethylamine	62-75-9	1000	± 0.503%
N-Nitrosodiphenylamine	86-30-6	1000	± 0.476%
N-Nitrosodi-n-propylamine	621-64-7	1000	± 0.461%
Pentachlorophenol	87-86-5	1000	± 0.202%
Phenanthrene	85-01-8	1000	± 0.145%
Phenol	108-95-2	1000	± 0.545%
Pyrene	129-00-0	1000	± 0.147%
Pyridine	110-86-1	1000	± 0.503%
2,3,4,6-Tetrachlorophenol	58-90-2	1000	± 0.247%
2,3,5,6-Tetrachlorophenol	935-95-5	1000	± 0.247%
1,2,4-Trichlorobenzene	120-82-1	1000	± 0.224%
2,4,5-Trichlorophenol	95-95-4	1000	± 0.507%
2,4,6-Trichlorophenol	88-06-2	1000	± 0.509%

Notes: The proper chemical name for Bis(2-Chloroiospropyl) ether is 2,2'-oxybis(1-chloropropane). The analytical uncertainty contribution to the expanded uncertainty for 3 and 4-Methylphenol is measured as the total of the two analytes. N-Nitrosodiphenylamine presents as Diphenylamine at 854 µg/mL.

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Supelco®

www.sigmaaldrich.com

Certificate of Composition - Analytical Standard

BASE STOCK

Product no.: 22523051
Lot no.: LRAD2751
Expiry Date: June 2024
Manufacturing Date: June 2022
Storage: REFRIGERATE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD2751.01 (*Note: Certificates may be updated due to the availability of new data. Check our website at:* www.sigma-aldrich.com *for the most current version.)*

Analyte	*Assigned Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
3,3'-DICHLOROBENZIDINE, 100MG, NEAT CAS# 91-94-1	799	µg/mL	99.8	LRAD2376
2,4-DINITROTOLUENE CAS# 121-14-2	801	µg/mL	97.8	LB46632
2,6-DINITROTOLUENE CAS# 606-20-2	800	µg/mL	99.2	11231AN
HEXACHLOROCYCLOPENTADIENE CAS# 77-47-4	800	µg/mL	96.0	LB95525
N-NITROSODIMETHYLAMINE CAS# 62-75-9	800	µg/mL	95.0	2019-030598 5
PERYLENE CAS# 198-55-0	200	µg/mL	99.6	04101PG
ANILINE CAS# 62-53-3	800	µg/mL	99.9	LA41596
4-CHLOROANILINE CAS# 106-47-8	800	µg/mL	100.0	MKBZ6909V
2-NITROANILINE CAS# 88-74-4	799	µg/mL	99.9	07411KN
3-NITROANILINE CAS# 99-09-2	800	µg/mL	99.9	LC09264
4-NITROANILINE CAS# 100-01-6	800	µg/mL	99.9	15609AA
PYRIDINE (LOW WATER) CAS# 110-86-1	800	µg/mL	100.0	SHBJ9218

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

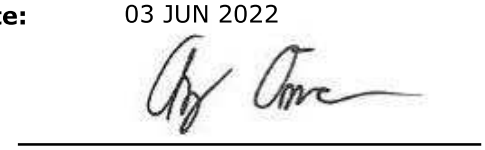
Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Certificate issue date: 03 JUN 2022



Andy Ommen - QC Manager

Scott Stetler - QA Manager

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD2751.01	03 JUN 2022	Original Release Date

Disclaimer: The purchaser is required to determine the suitability of this product for any particular application. Sigma-Aldrich RTC makes no warranty of any kind, express or implied, other than its products meet all quality control standards set by Sigma-Aldrich RTC. We do not guarantee that the product can be used for any particular application.

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW22-SS818

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E-SIM

Polynuclear Aromatic Hydrocarbons

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-06 A	SDG:	22L0136
Sampled:	12/06/22 11:24	Prepared:	12/09/22 14:08	File ID:	N822121509.D
% Solids:	60.82	Preparation:	EPA 3546 (Microwave)	Analyzed:	12/15/22 18:28
Batch:	BKL0196	Sequence:	SKL0227	Initial/Final:	16.47 g Wet / 0.5 mL
Instrument:	NT8	Column:	RXI-17Sil ms	Calibration:	FD00034
Cleanups:	GPC, Silica Gel				

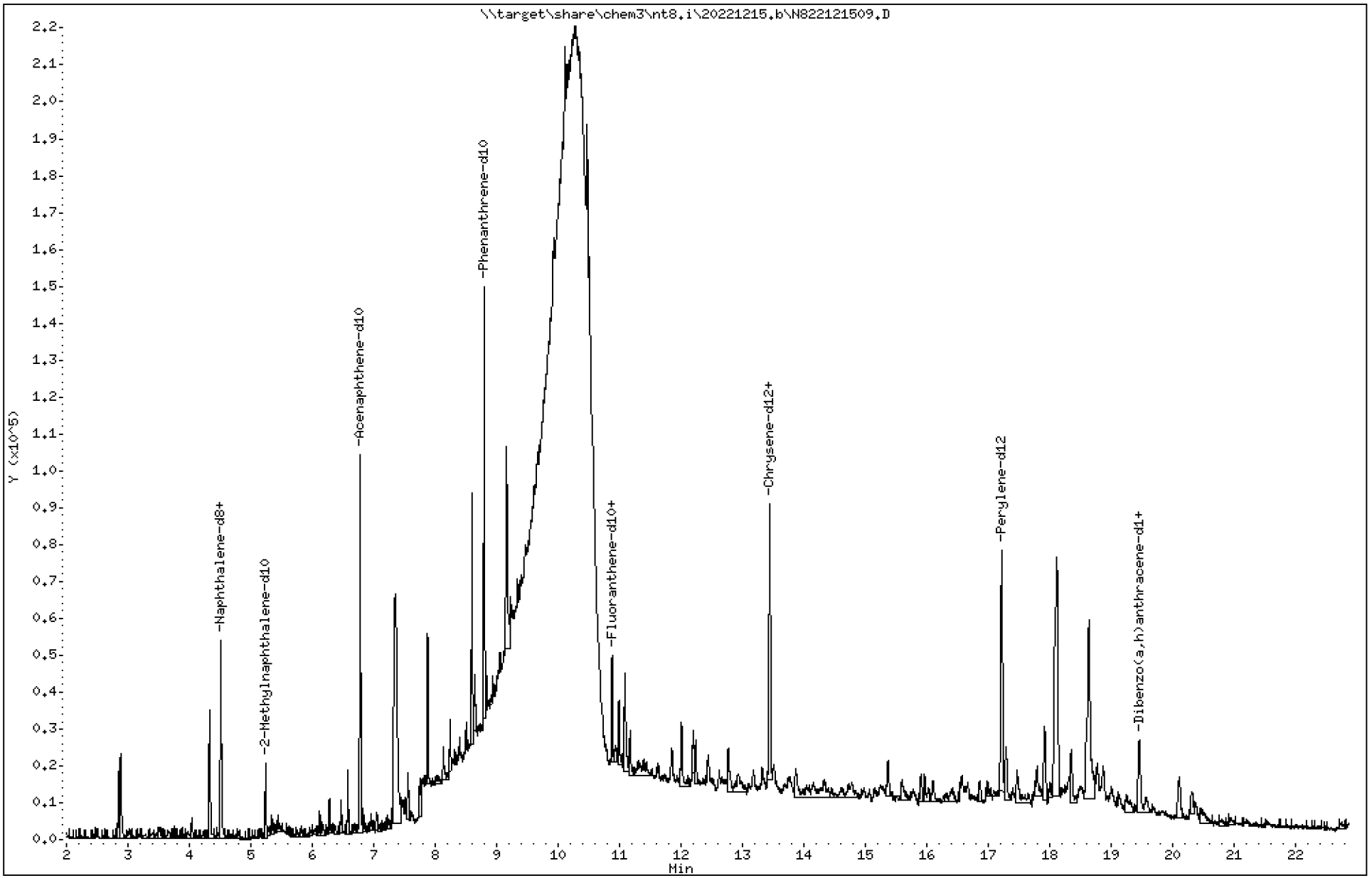
CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
91-20-3	Naphthalene	3	4.51	J, D	3.82	15.0
91-57-6	2-Methylnaphthalene	3	6.20	J, D	3.31	15.0
208-96-8	Acenaphthylene	3	15.0	U	3.25	15.0
83-32-9	Acenaphthene	3	11.0	J, D	1.71	15.0
86-73-7	Fluorene	3	4.25	J, D	1.89	15.0
85-01-8	Phenanthrene	3	26.4	D	2.15	15.0
120-12-7	Anthracene	3	6.05	J, D	2.61	15.0
206-44-0	Fluoranthene	3	48.6	D	1.41	15.0
129-00-0	Pyrene	3	46.4	D	1.87	15.0
56-55-3	Benzo(a)anthracene	3	16.5	D	2.47	15.0
218-01-9	Chrysene	3	22.9	D	3.15	15.0
205-99-2	Benzo(b)fluoranthene	3	19.4	D	4.11	15.0
207-08-9	Benzo(k)fluoranthene	3	9.96	J, D	2.28	15.0
50-32-8	Benzo(a)pyrene	3	17.0	D	1.84	15.0
193-39-5	Indeno(1,2,3-cd)pyrene	3	18.2	D	3.14	15.0
53-70-3	Dibenzo(a,h)anthracene	3	6.30	J, D	2.67	15.0
191-24-2	Benzo(g,h,i)perylene	3	22.9	D	3.19	15.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Methylnaphthalene-d10	149.74	62.0	41.4	32 - 120	
Dibenzo[a,h]anthracene-d14	149.74	109	72.6	21 - 133	
Fluoranthene-d10	149.74	75.3	50.3	36 - 134	

Data File: \\target\share\chem3\nt8.i\20221215.b\N822121509.D
Date : 15-DEC-2022 18:28
Client ID:
Sample Info: 22L0136-06,3

Instrument: nt8.i
Operator: JZ
Column diameter: 0.25

Column phase: Rxi-17sil



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Date : 15-DEC-2022 18:28

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-06,3

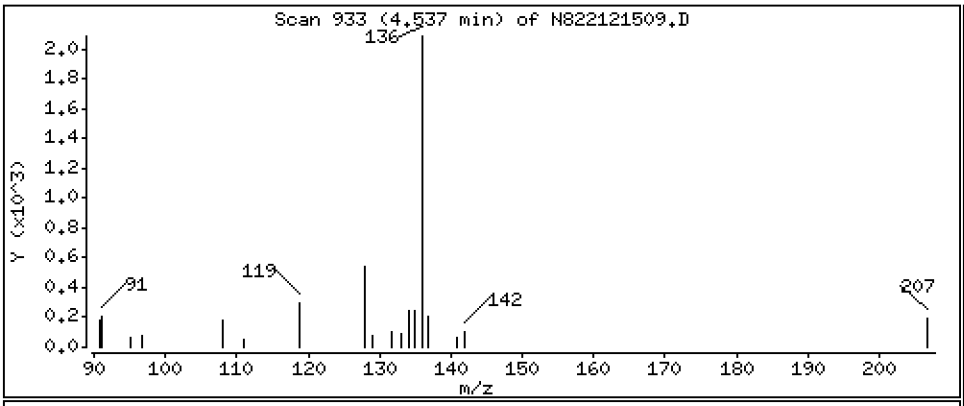
Operator: JZ

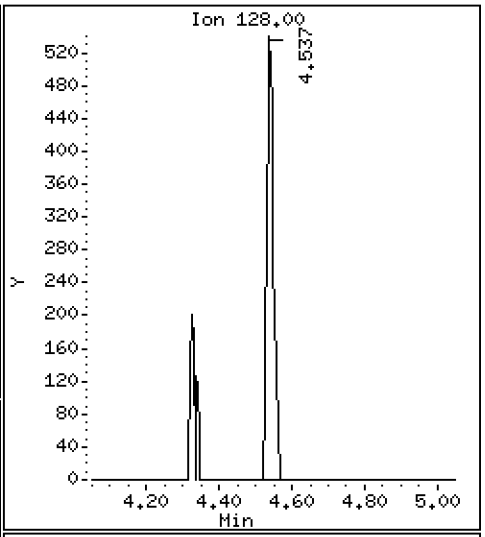
Column phase: Rxi-17sil

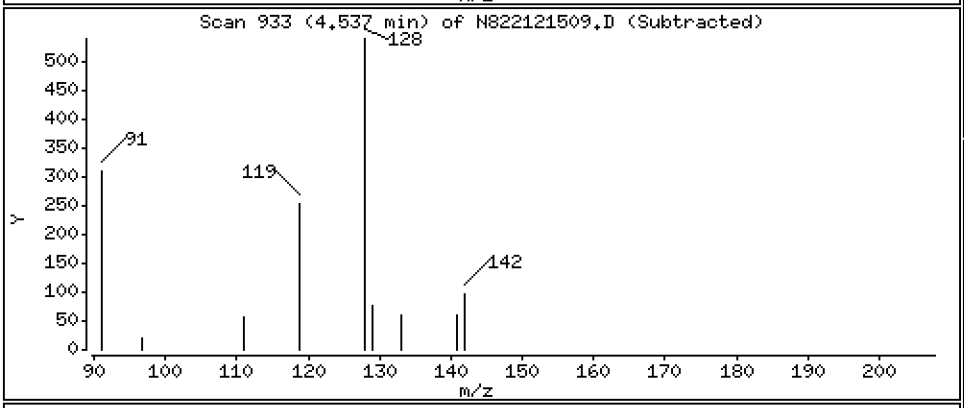
Column diameter: 0.25

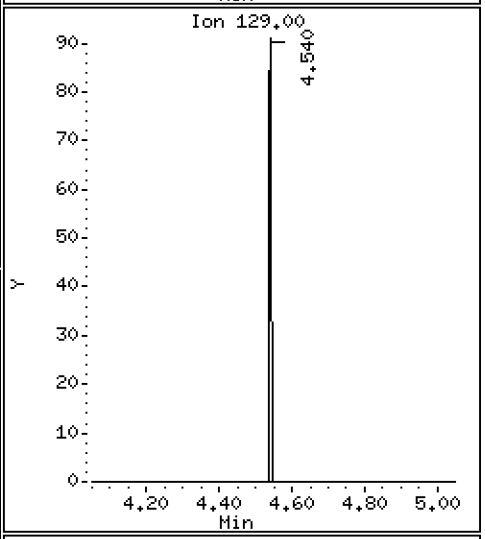
2 Naphthalene

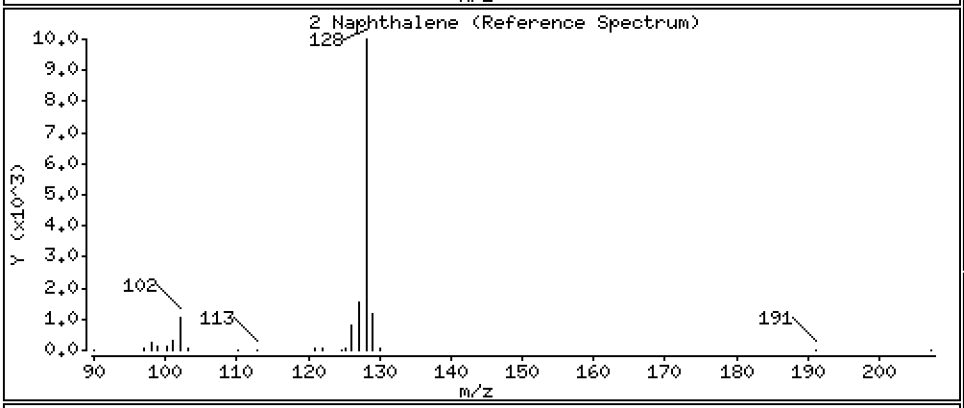
Concentration: 0.09032 ug/mL

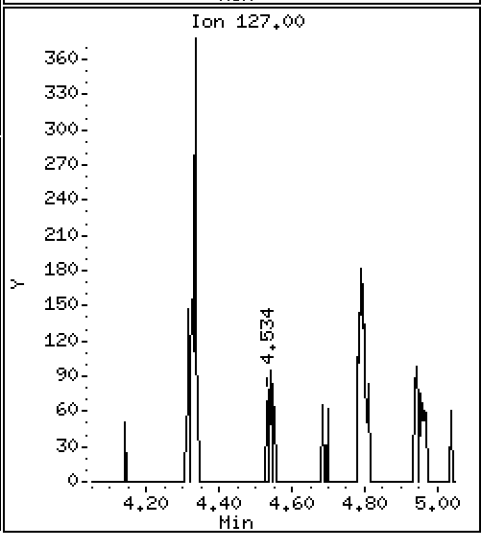


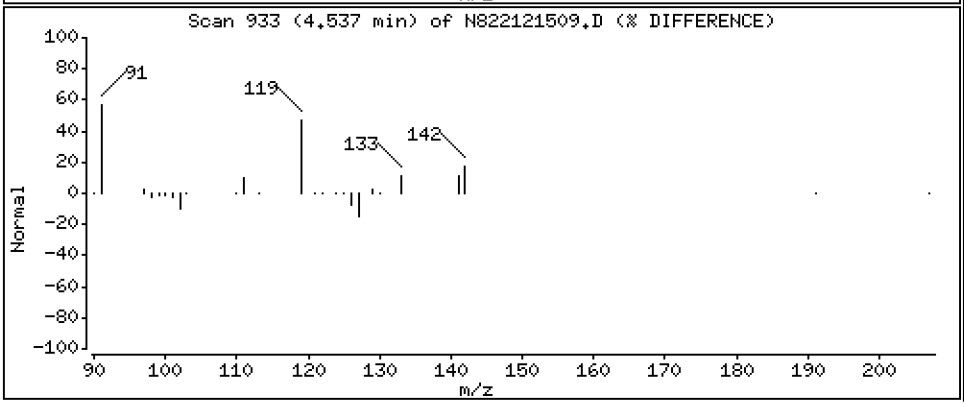












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Date : 15-DEC-2022 18:28

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-06,3

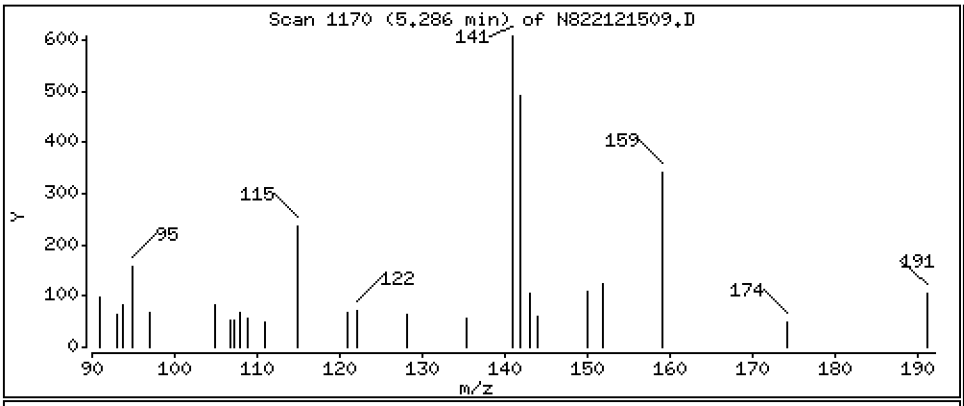
Operator: JZ

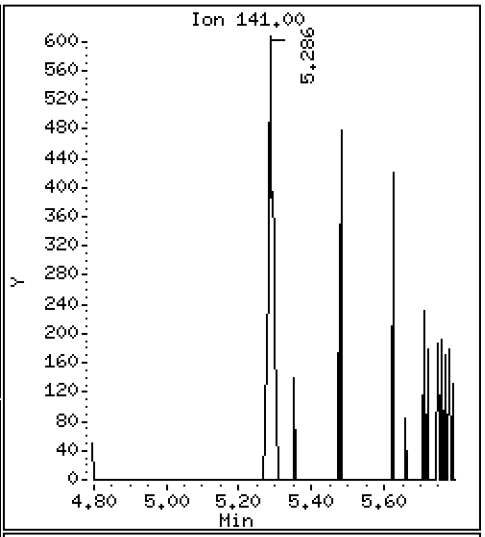
Column phase: Rxi-17sil

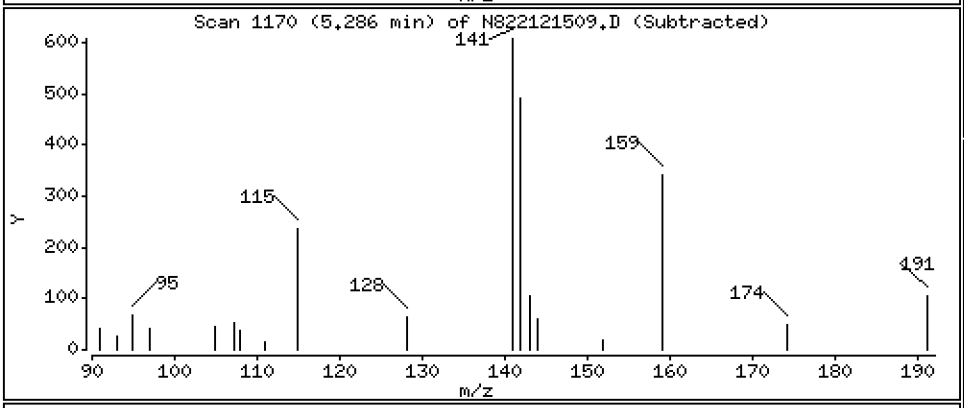
Column diameter: 0.25

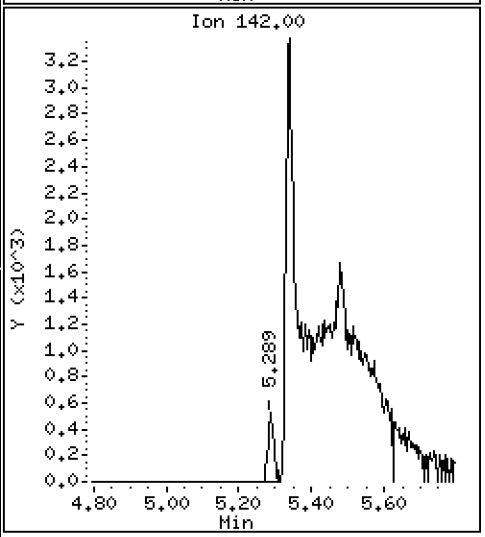
4 2-Methylnaphthalene

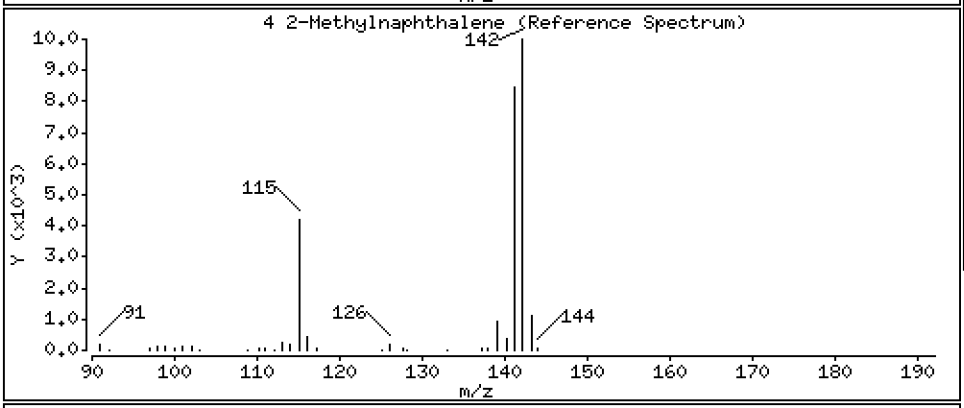
Concentration: 0.1243 ug/mL

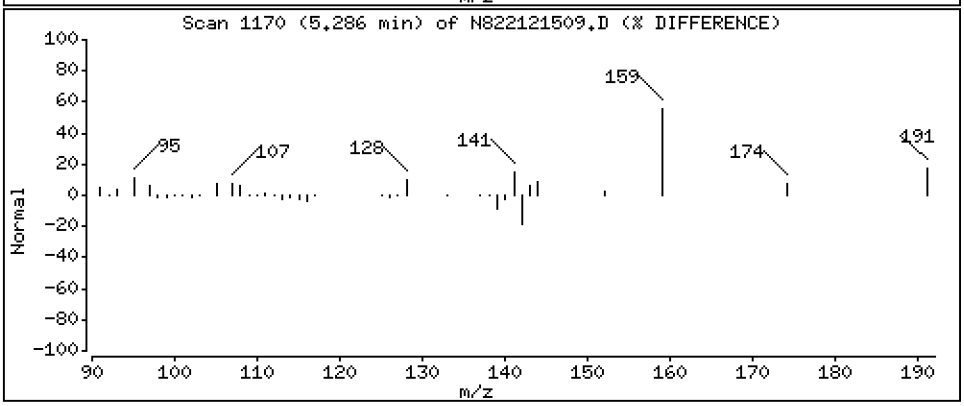












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Date : 15-DEC-2022 18:28

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-06,3

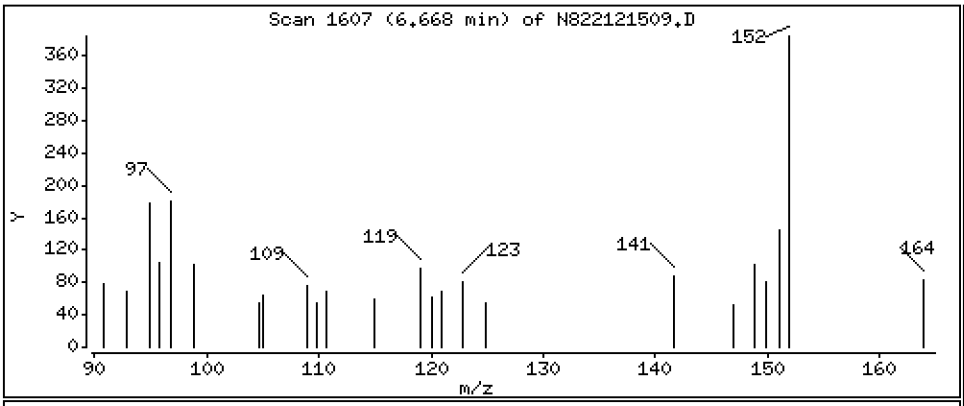
Operator: JZ

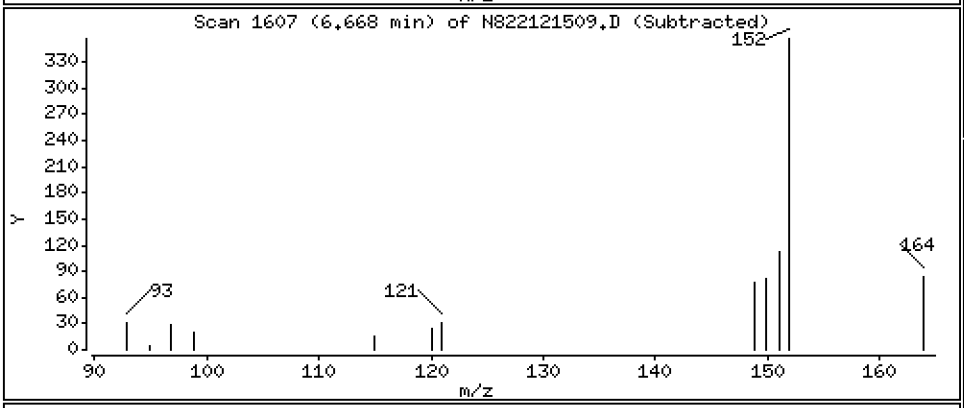
Column phase: Rxi-17sil

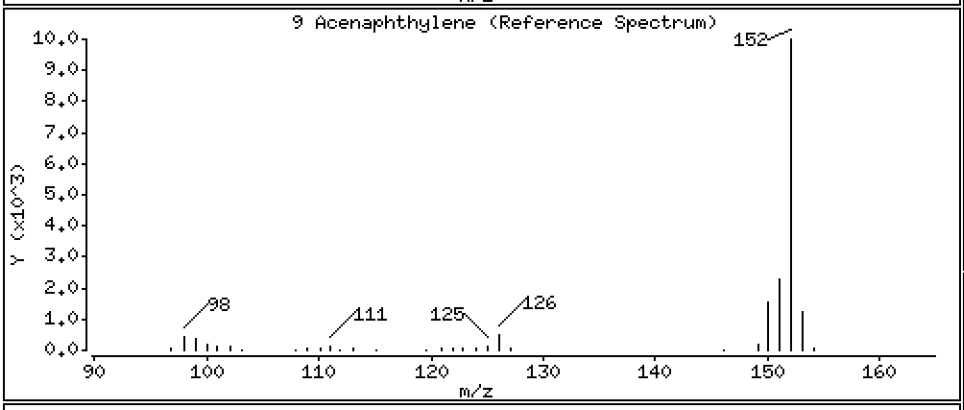
Column diameter: 0.25

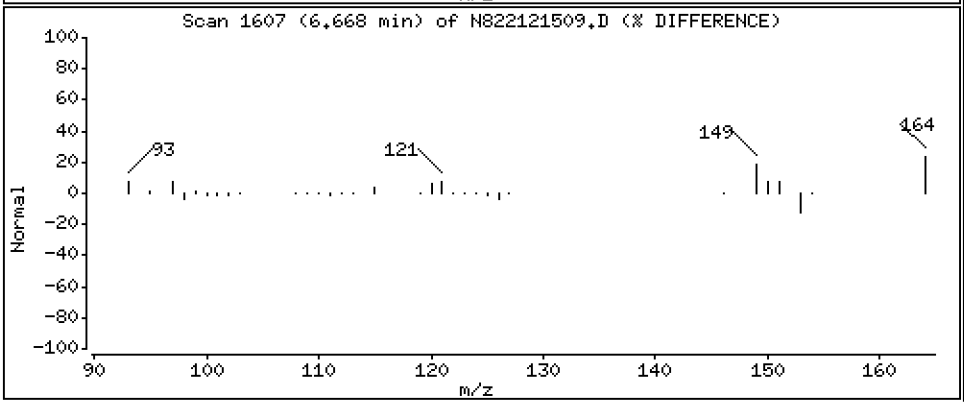
9 Acenaphthylene

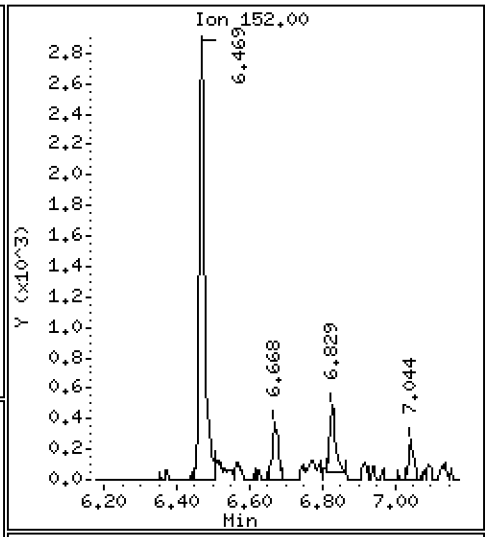
Concentration: 0.05073 ug/mL

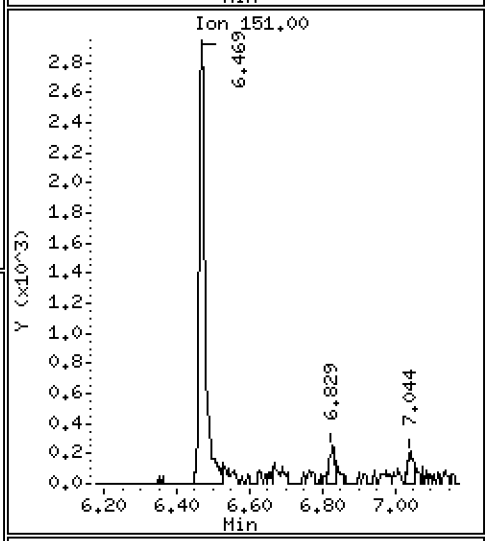


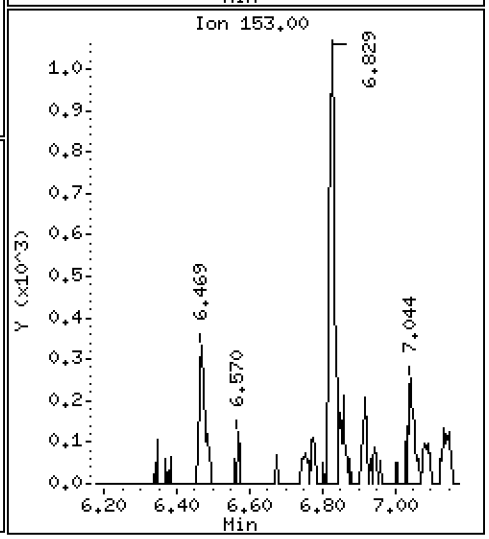












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Date : 15-DEC-2022 18:28

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-06,3

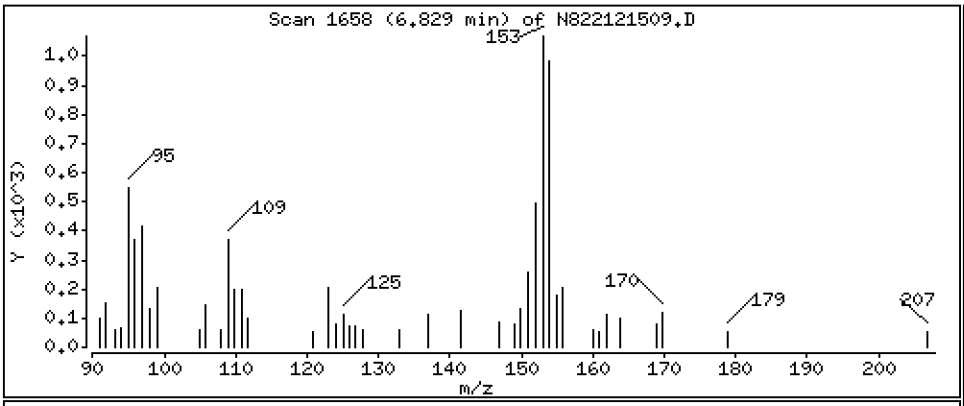
Operator: JZ

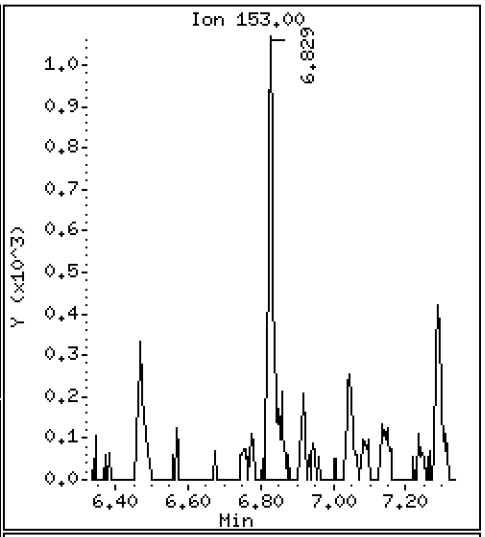
Column phase: Rxi-17sil

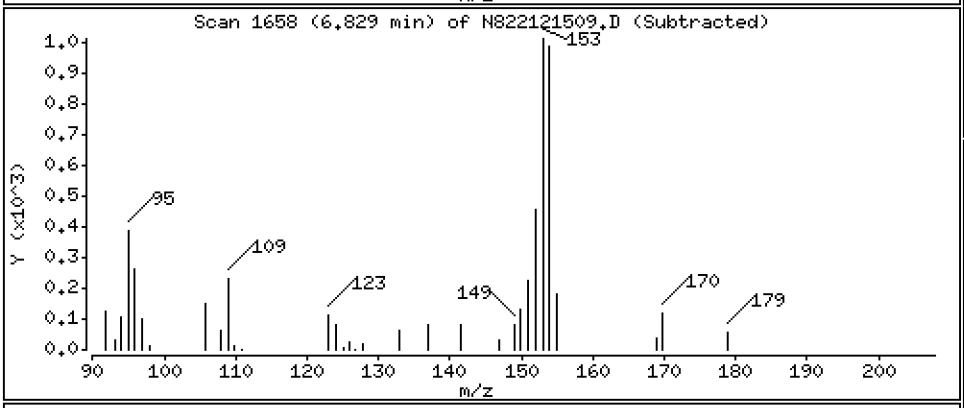
Column diameter: 0.25

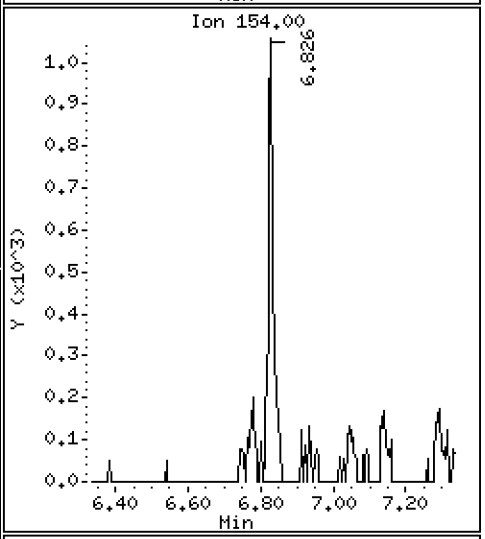
11 Acenaphthene

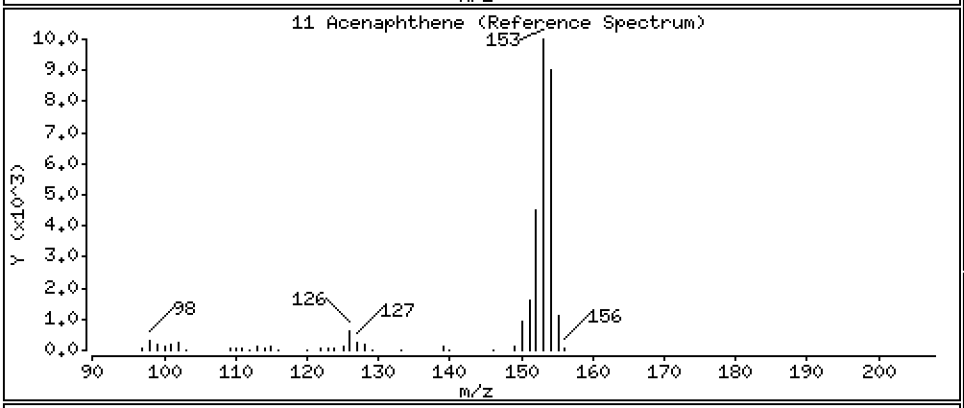
Concentration: 0.2212 ug/mL

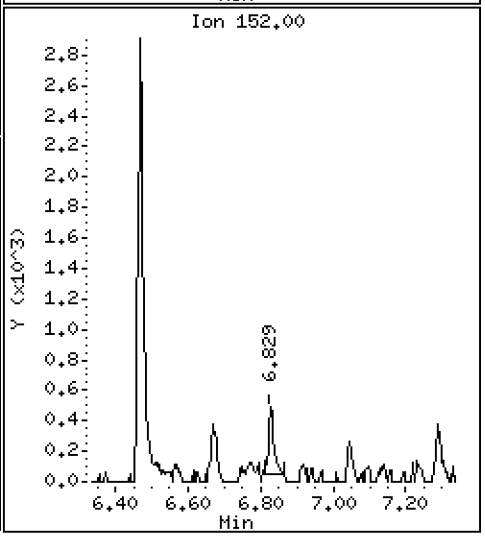


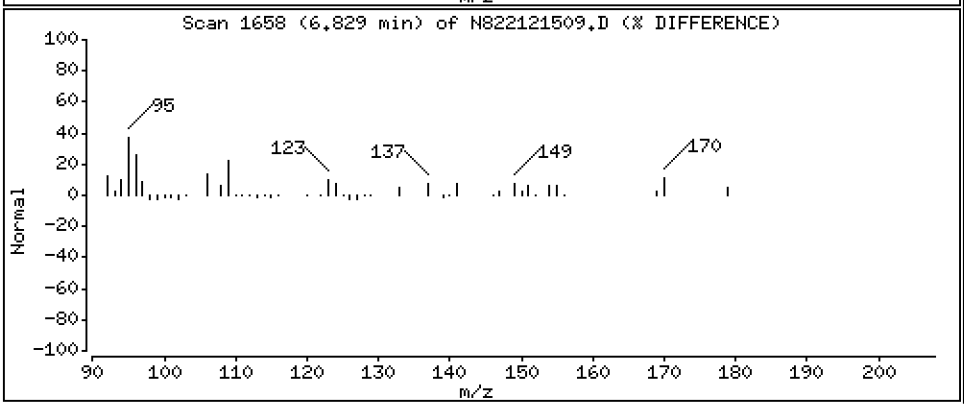












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121509.D

Date : 15-DEC-2022 18:28

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-06,3

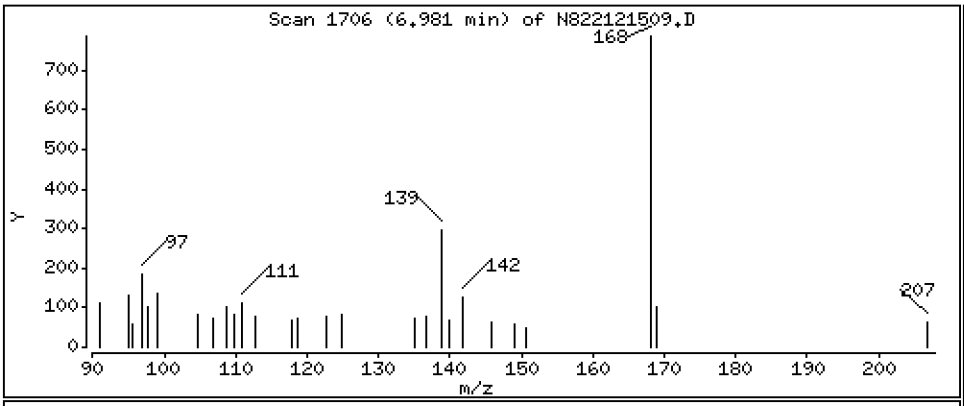
Operator: JZ

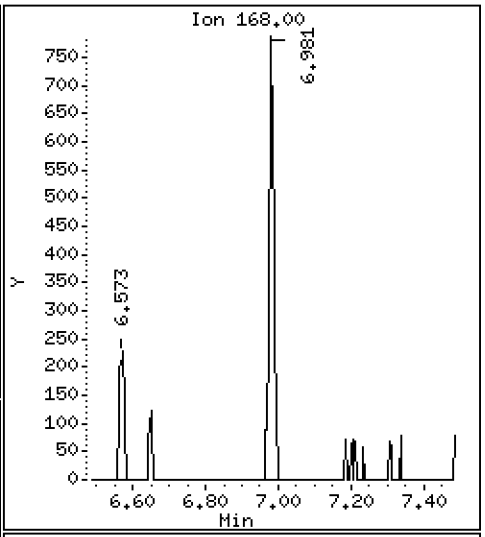
Column phase: Rxi-17sil

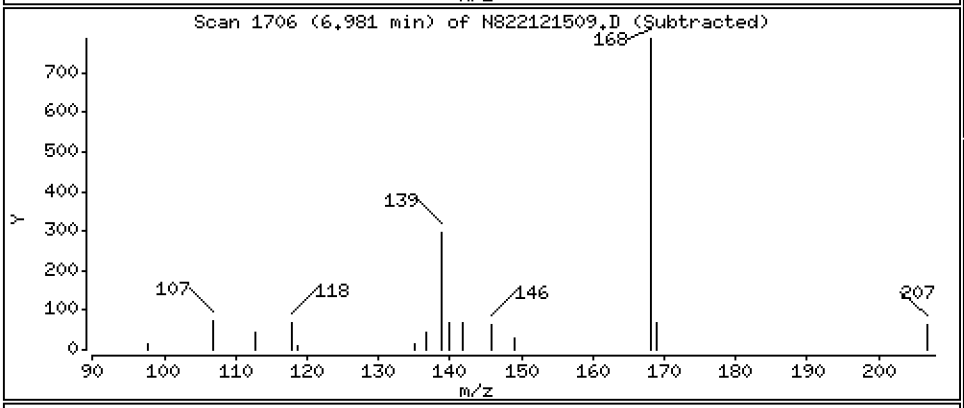
Column diameter: 0.25

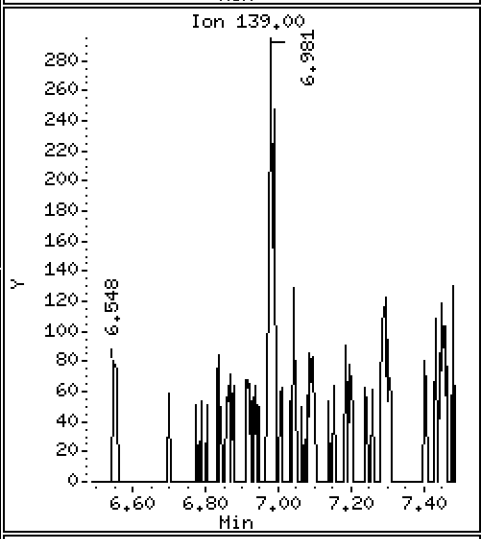
12 Dibenzofuran

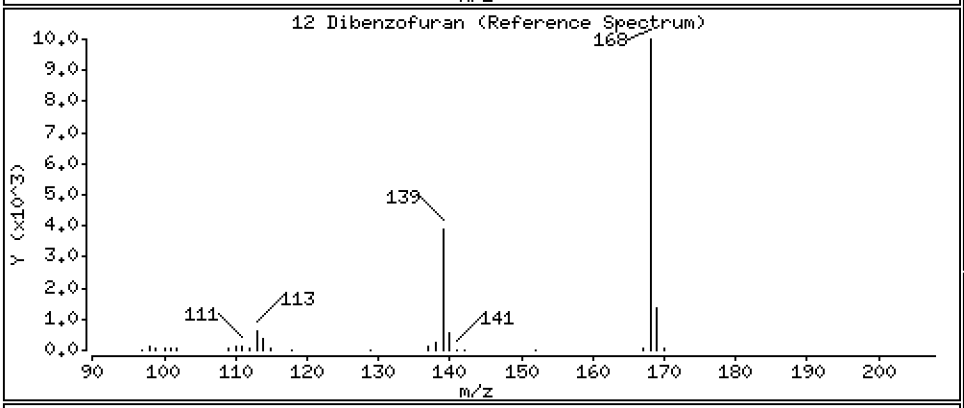
Concentration: 0.08893 ug/mL

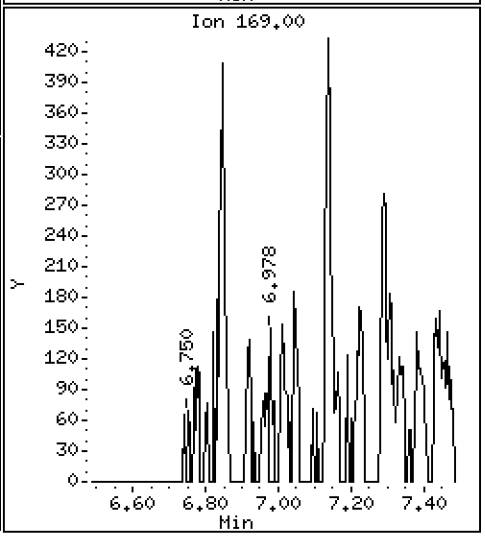


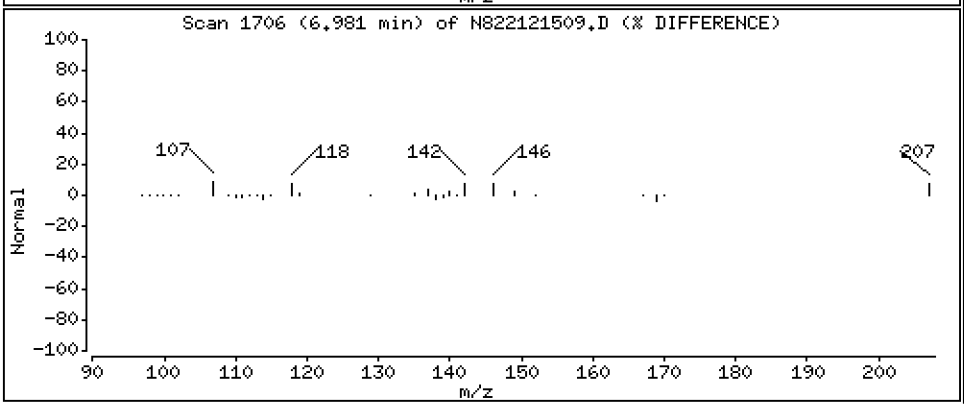












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Date : 15-DEC-2022 18:28

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-06,3

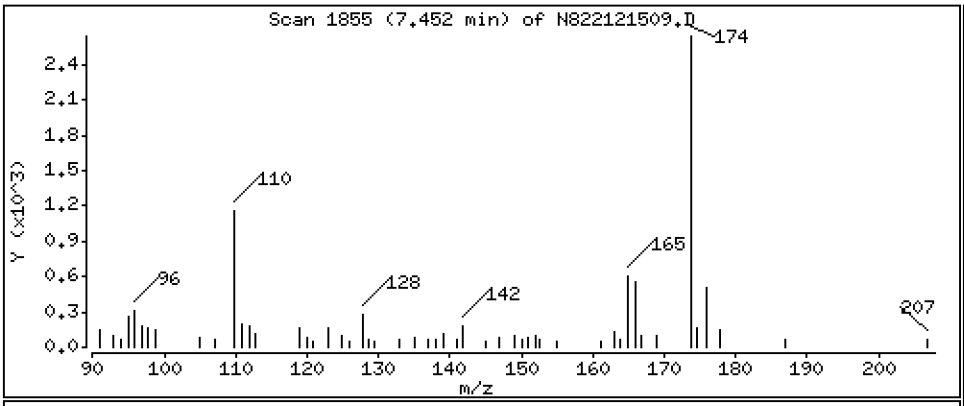
Operator: JZ

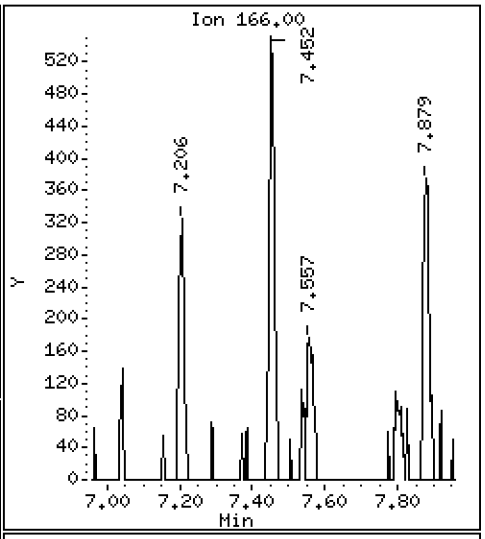
Column phase: Rxi-17sil

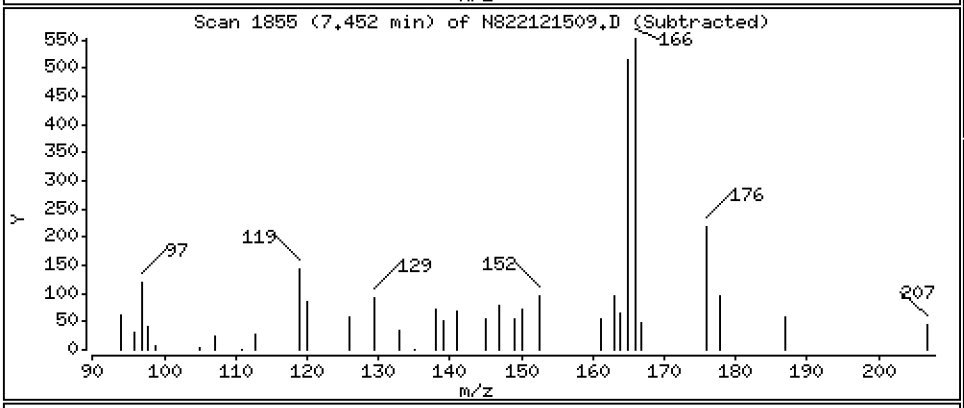
Column diameter: 0.25

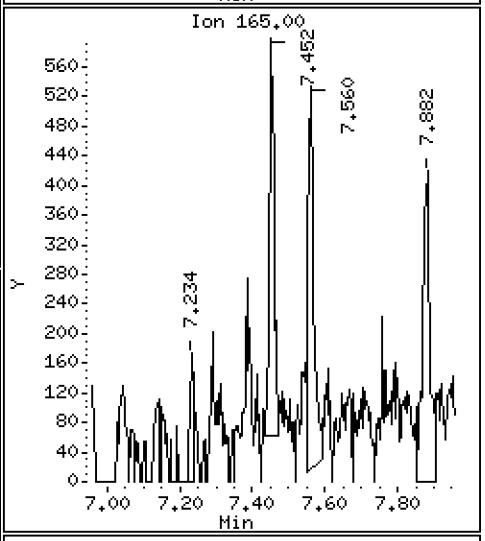
14 Fluorene

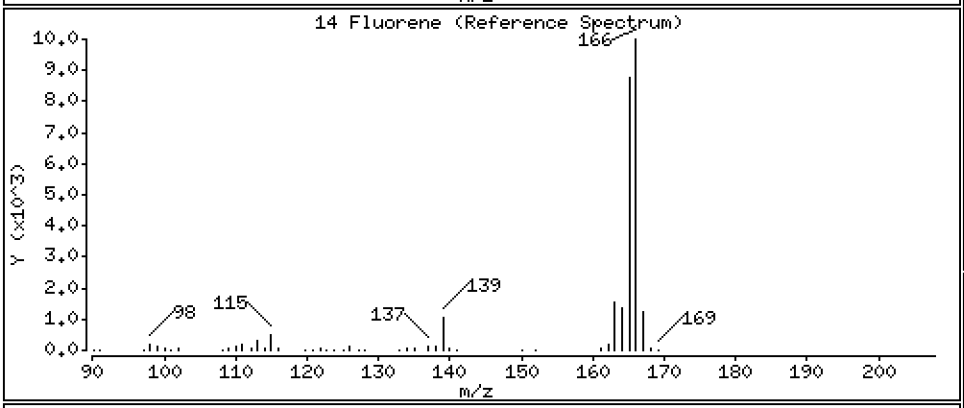
Concentration: 0.08514 ug/mL

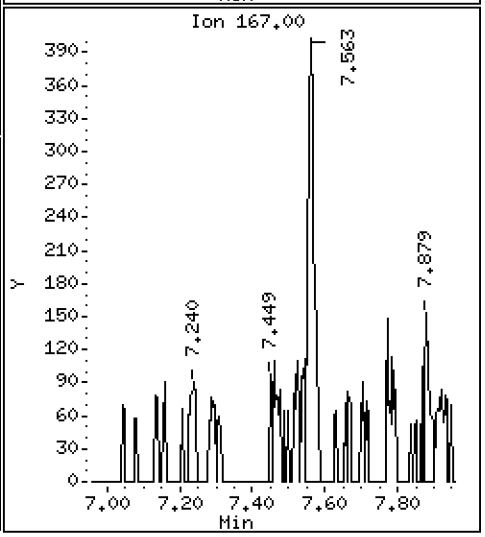


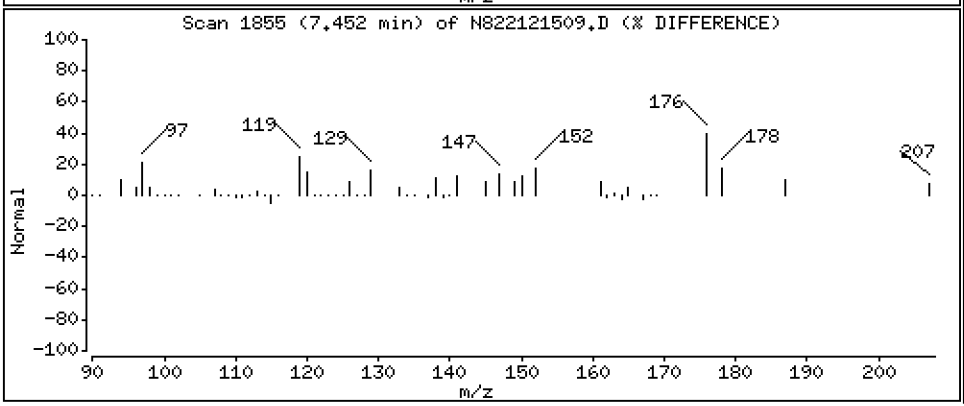












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Date : 15-DEC-2022 18:28

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-06,3

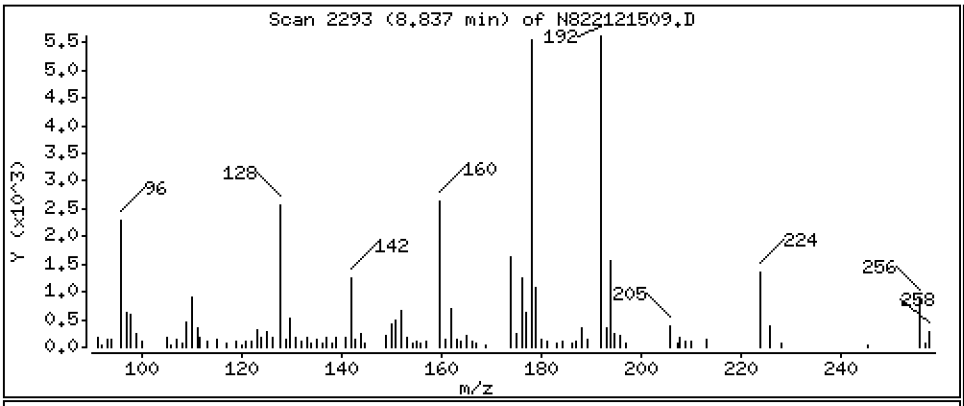
Operator: JZ

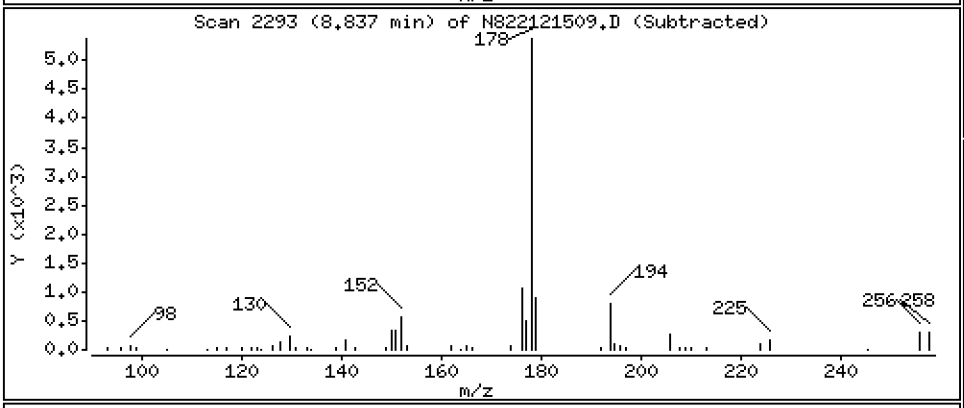
Column phase: Rxi-17sil

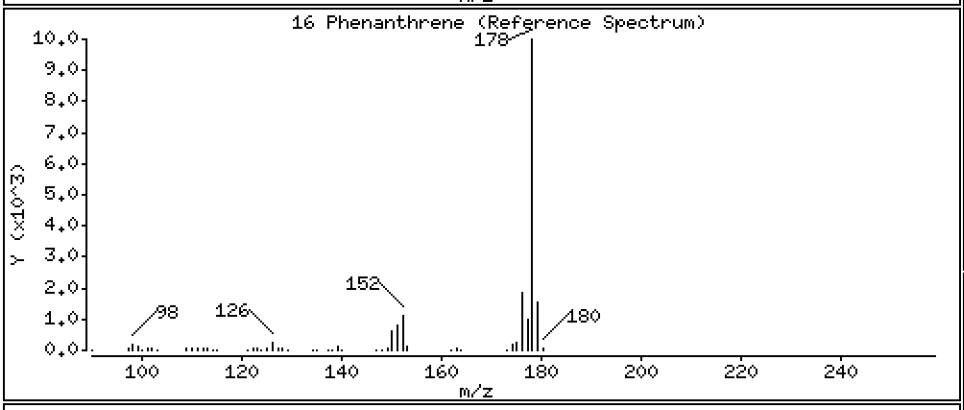
Column diameter: 0.25

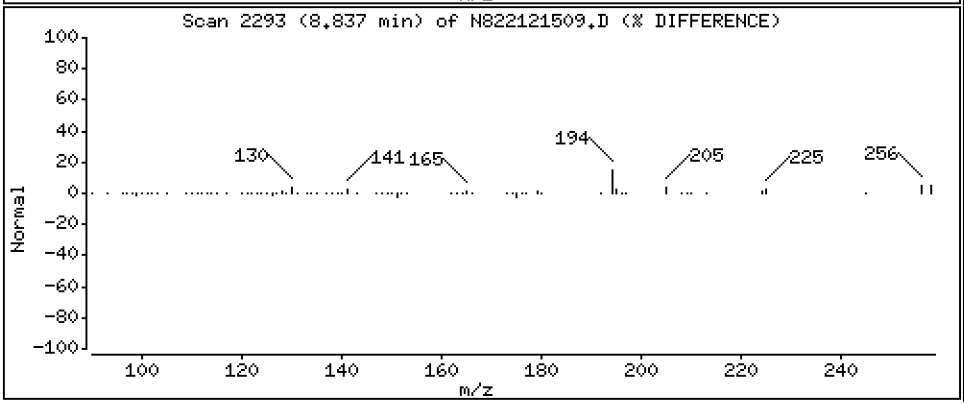
16 Phenanthrene

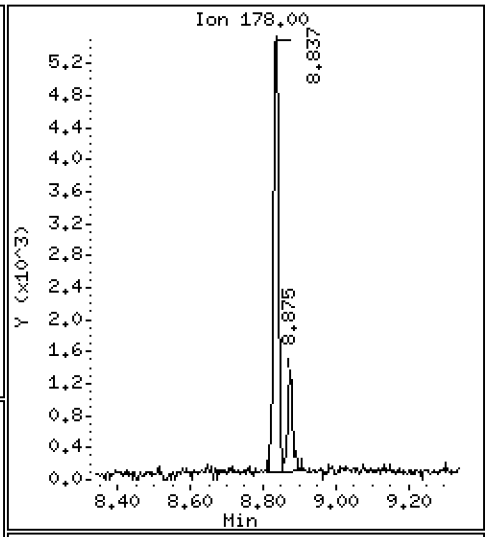
Concentration: 0.5282 ug/mL

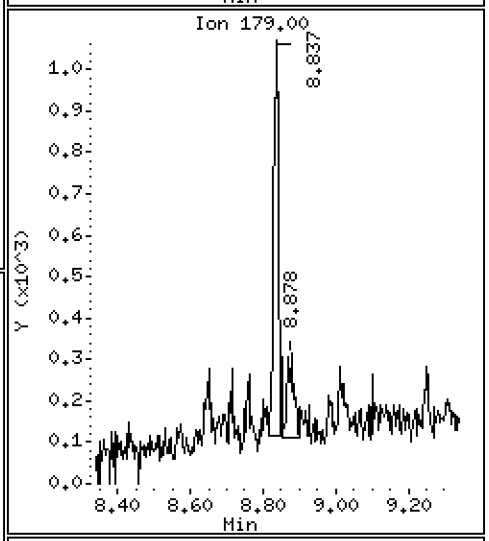


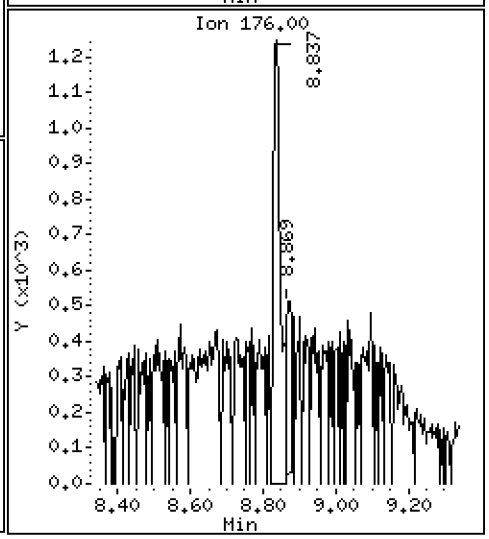












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Date : 15-DEC-2022 18:28

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-06,3

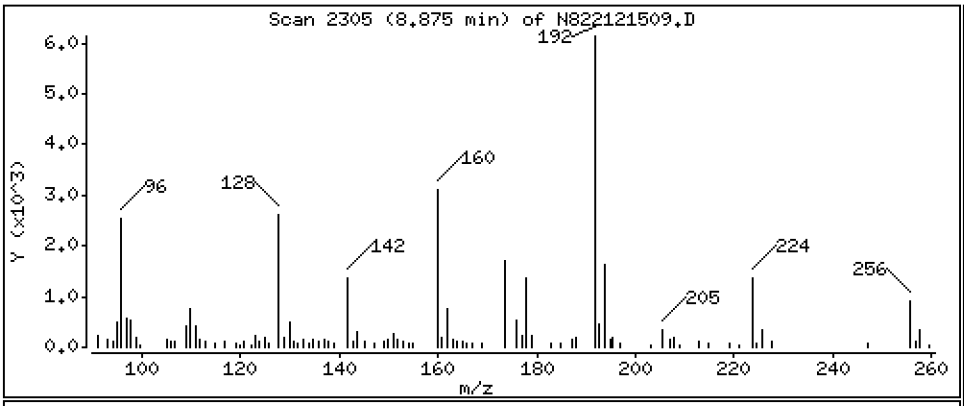
Operator: JZ

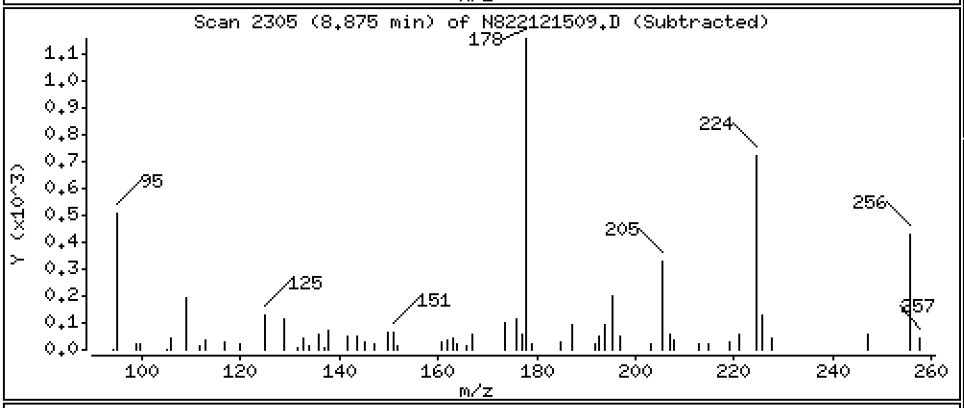
Column phase: Rxi-17sil

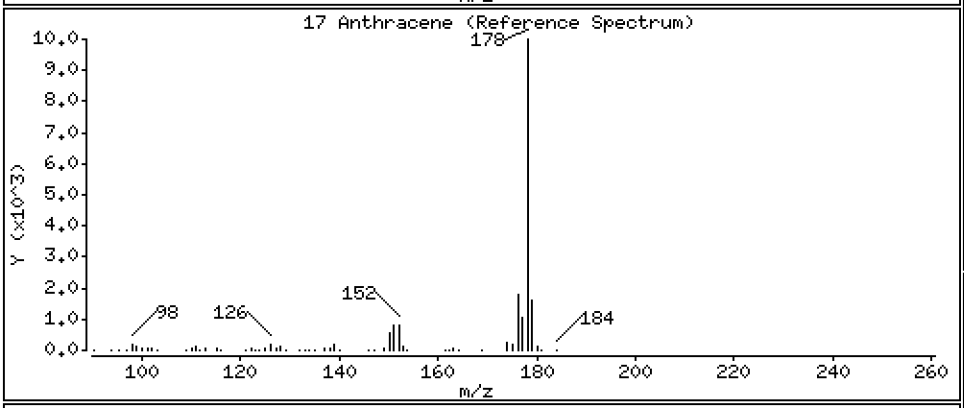
Column diameter: 0.25

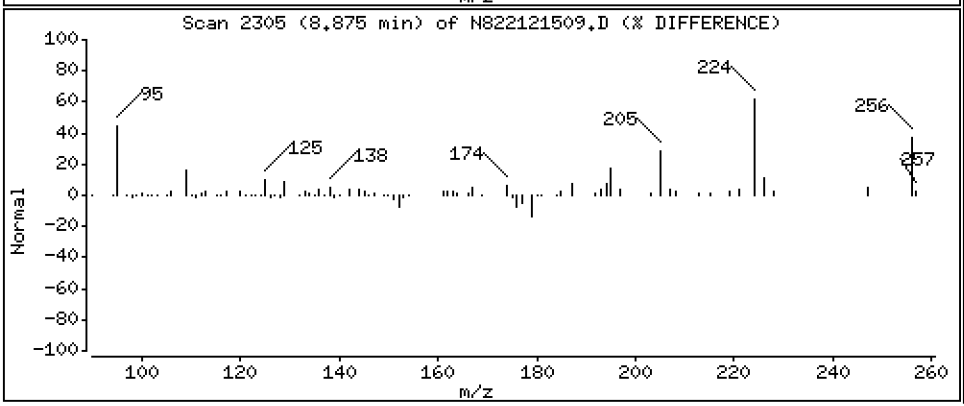
17 Anthracene

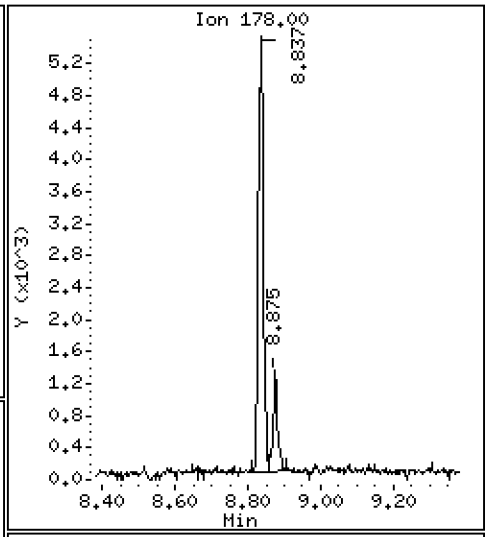
Concentration: 0.1213 ug/mL

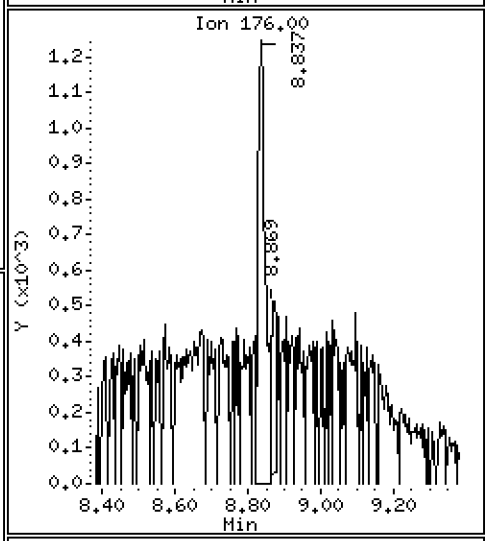


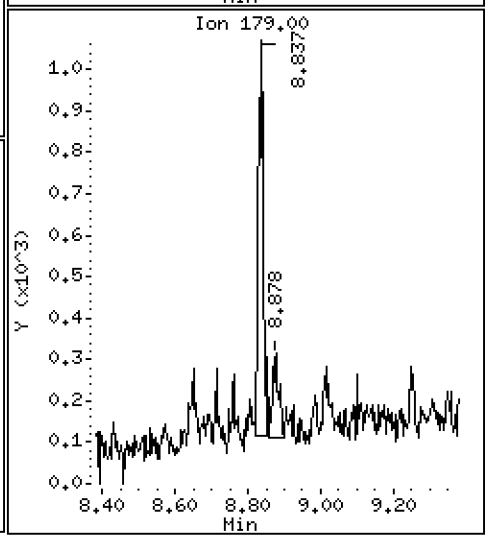












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Date : 15-DEC-2022 18:28

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-06,3

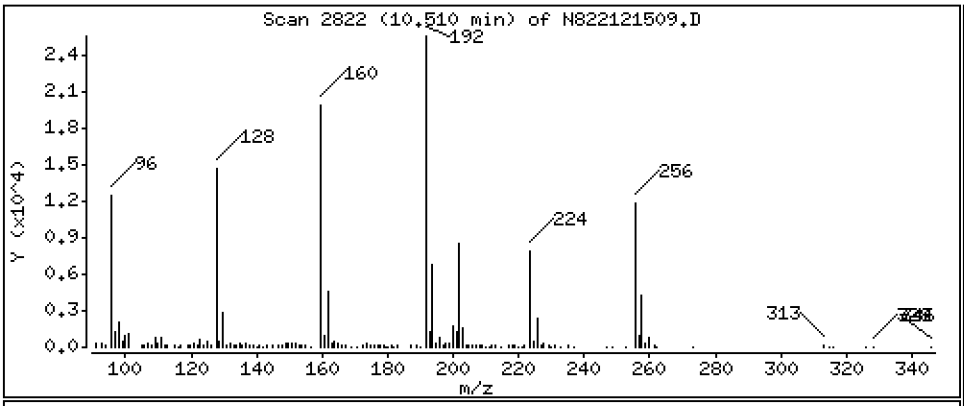
Operator: JZ

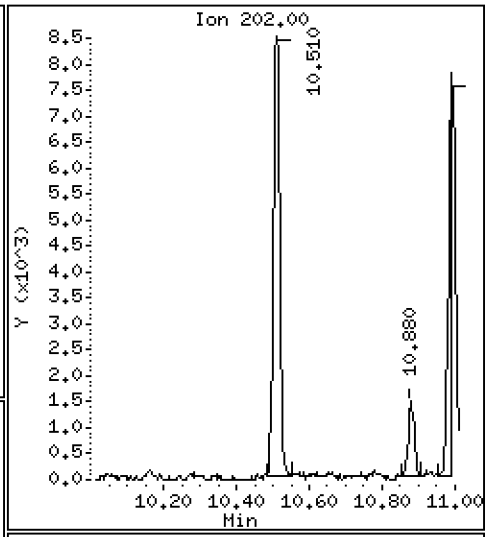
Column phase: Rxi-17sil

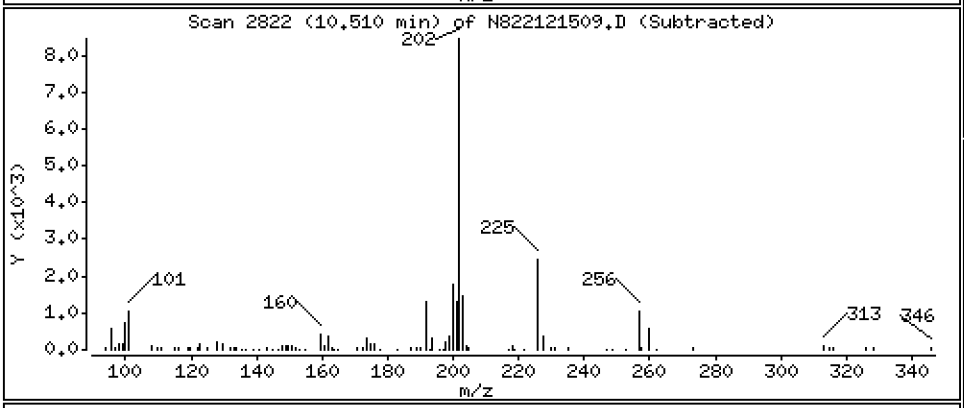
Column diameter: 0.25

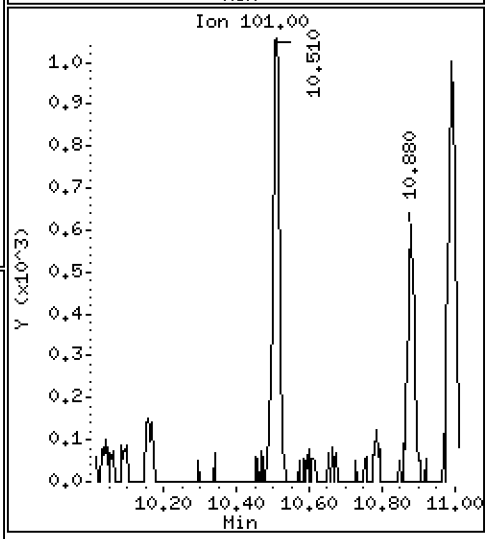
22 Fluoranthene

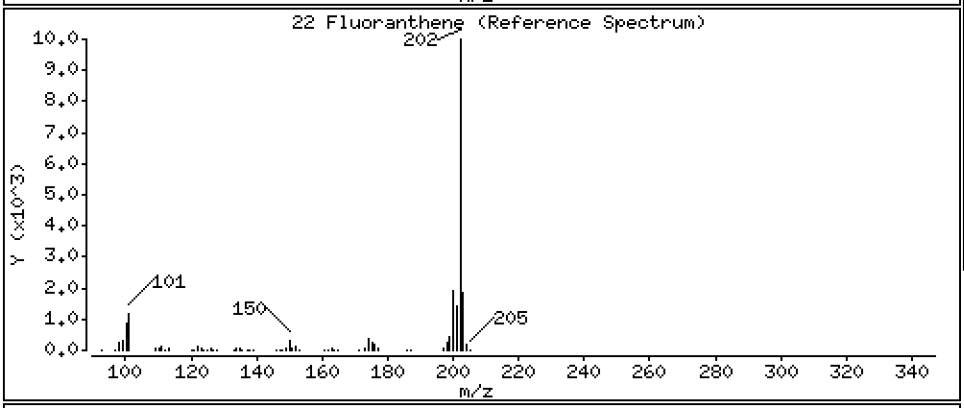
Concentration: 0.9741 ug/mL

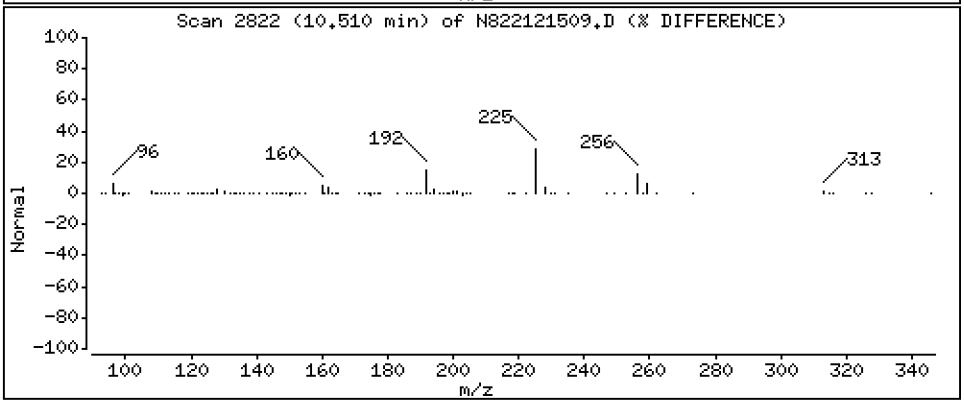












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Date : 15-DEC-2022 18:28

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-06,3

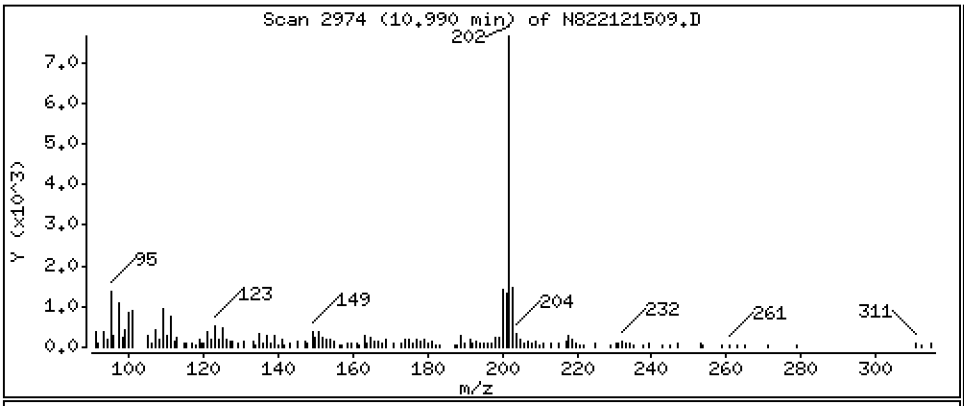
Operator: JZ

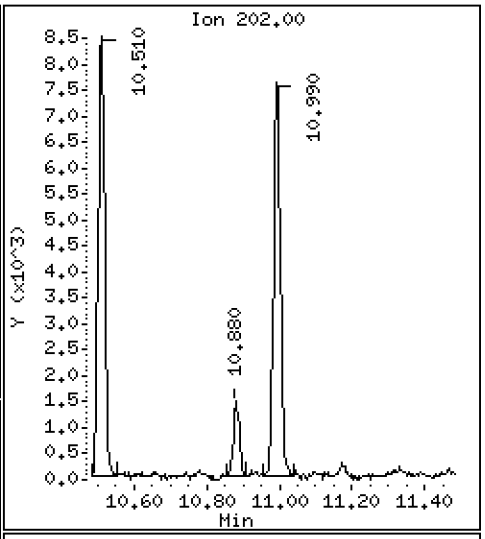
Column phase: Rxi-17sil

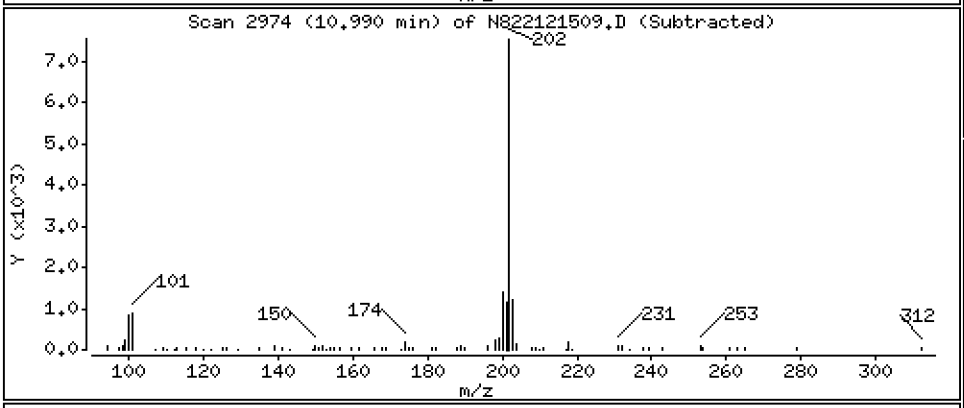
Column diameter: 0.25

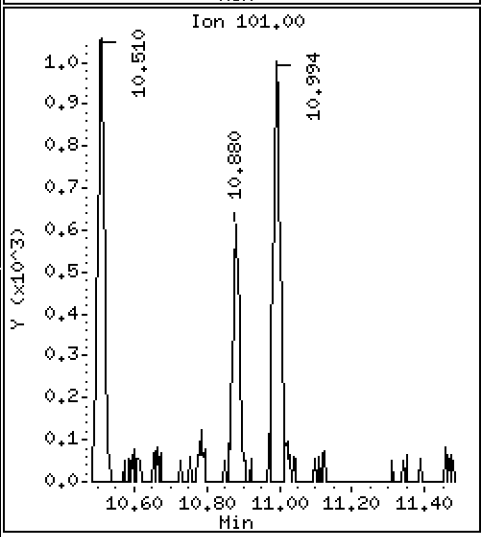
23 Pyrene

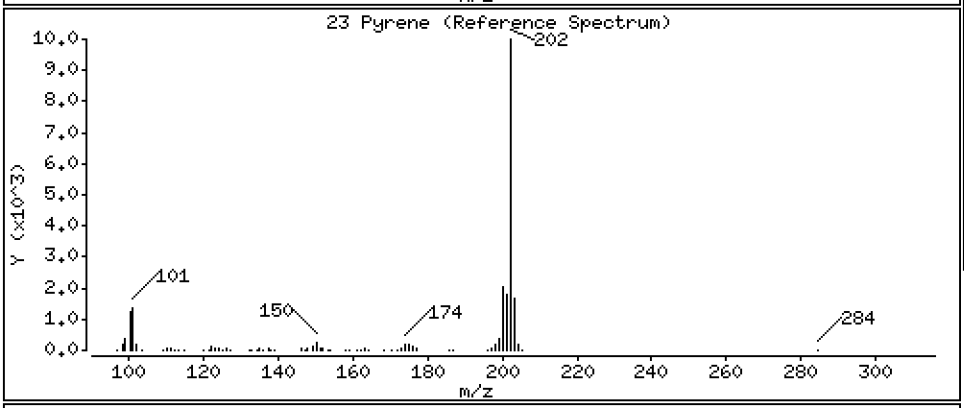
Concentration: 0.9289 ug/mL

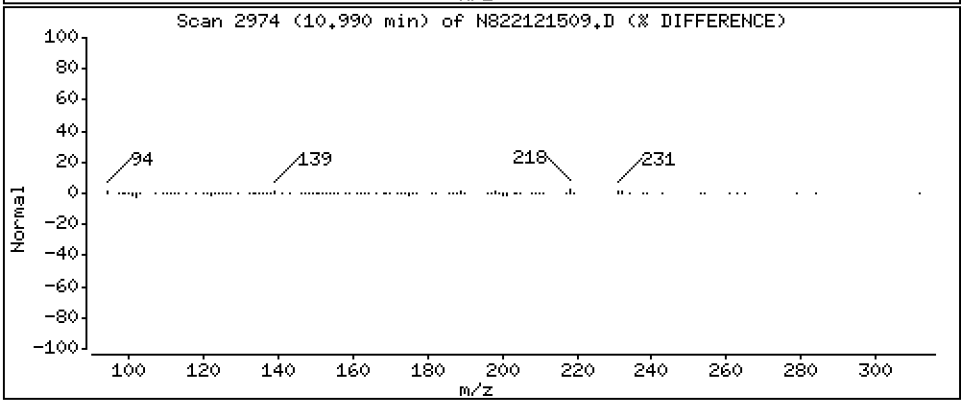












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Date : 15-DEC-2022 18:28

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-06,3

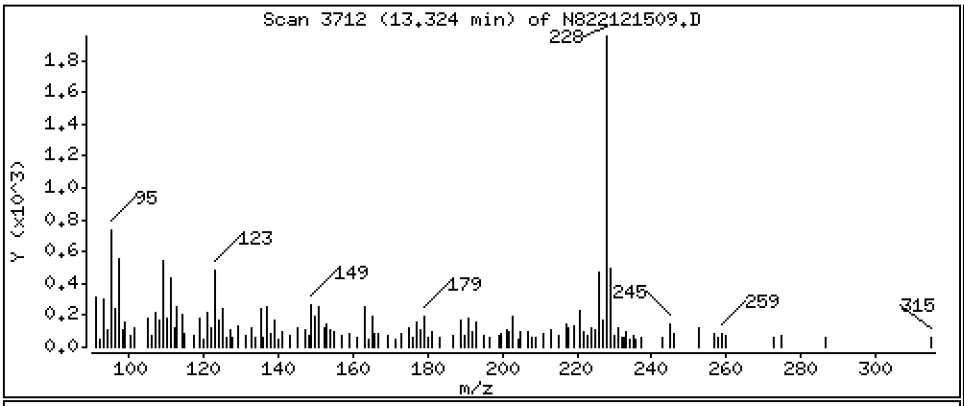
Operator: JZ

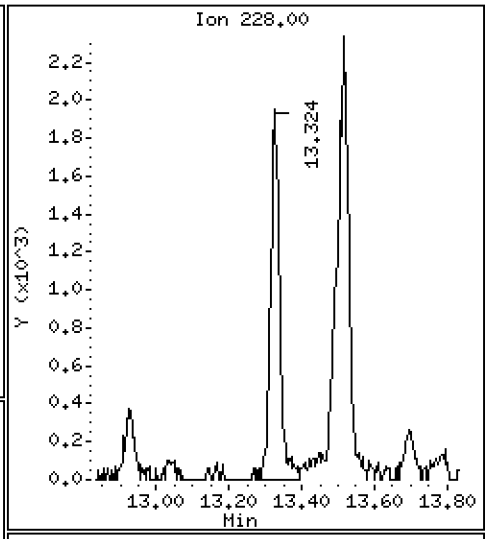
Column phase: Rxi-17sil

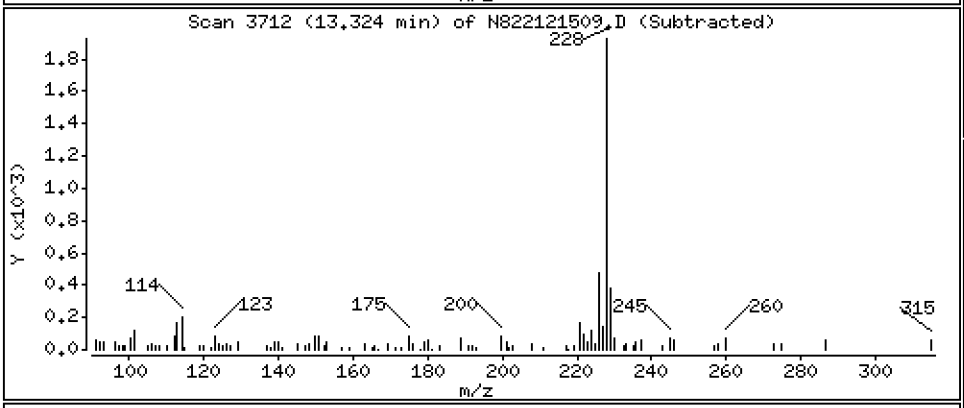
Column diameter: 0.25

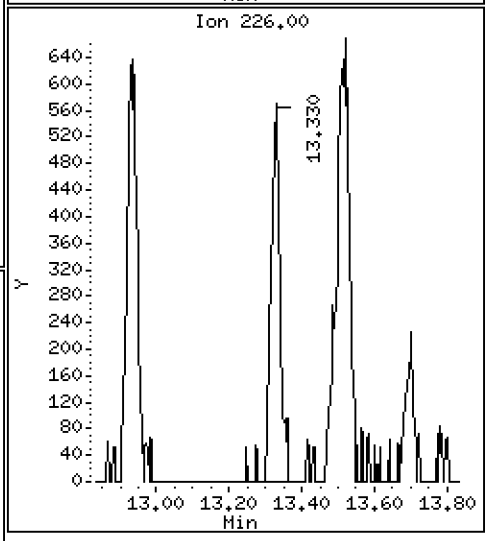
24 Benzo(a)anthracene

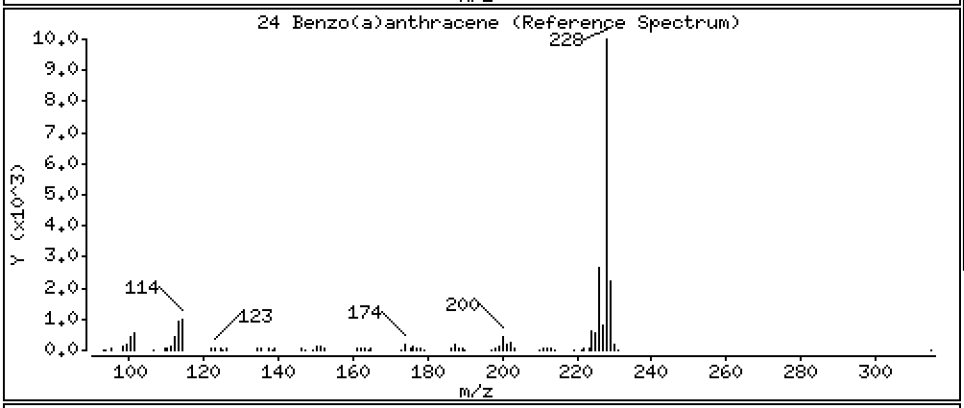
Concentration: 0.3302 ug/mL

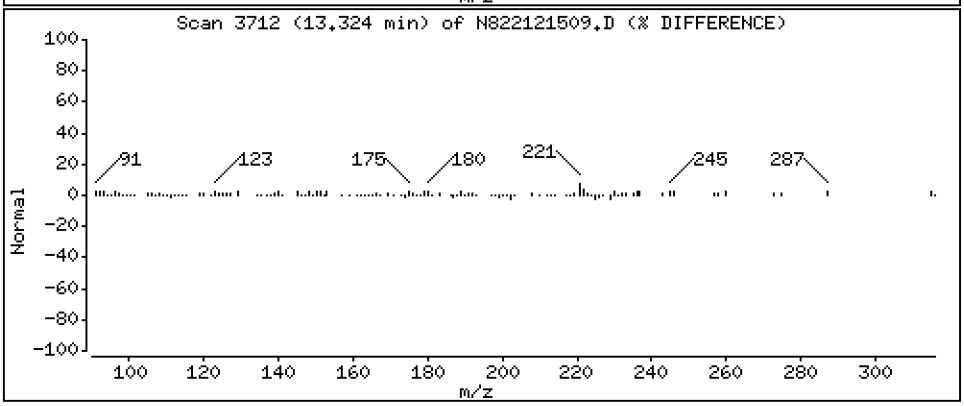












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121509.D

Date : 15-DEC-2022 18:28

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-06,3

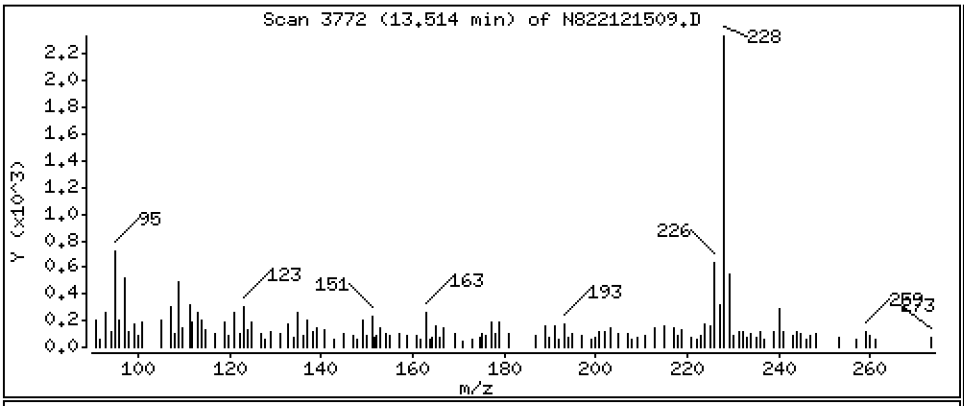
Operator: JZ

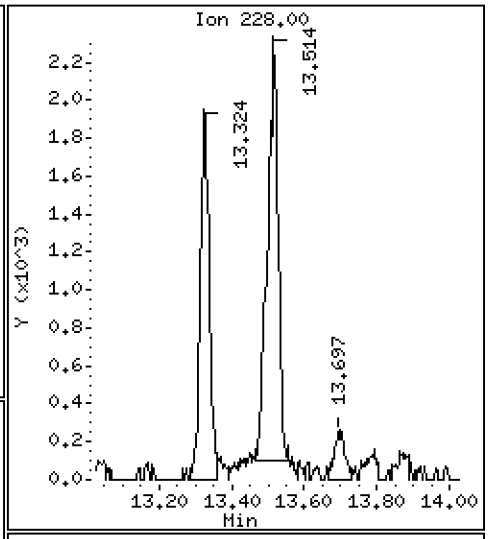
Column phase: Rxi-17sil

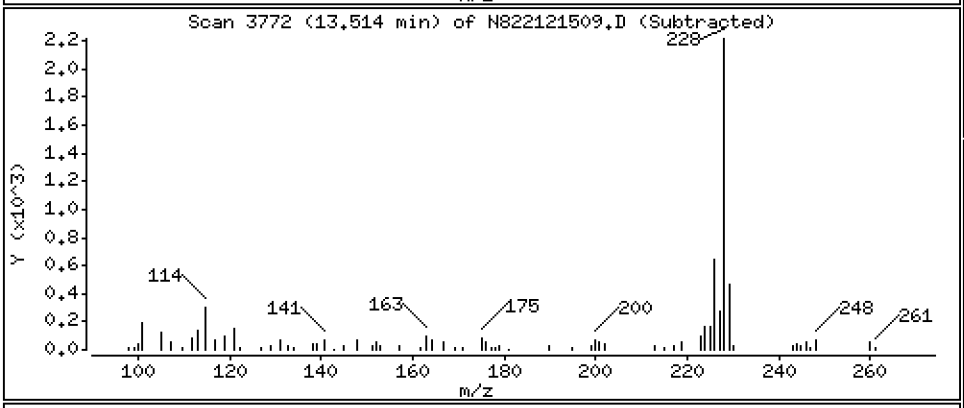
Column diameter: 0.25

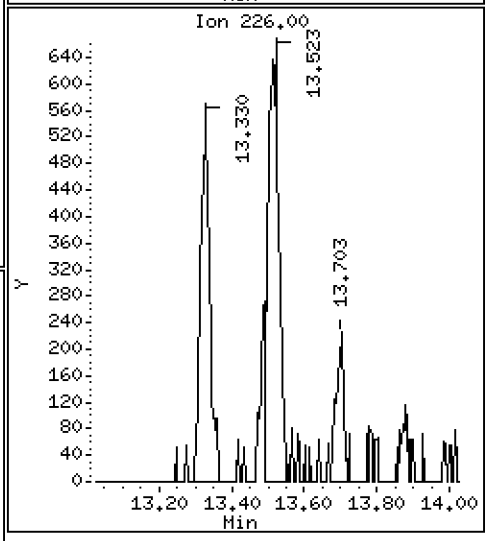
27 Chrysene

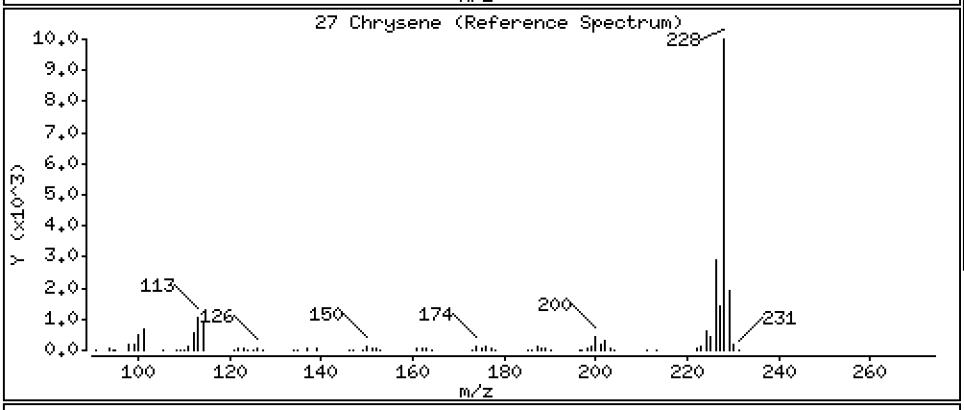
Concentration: 0.4596 ug/mL

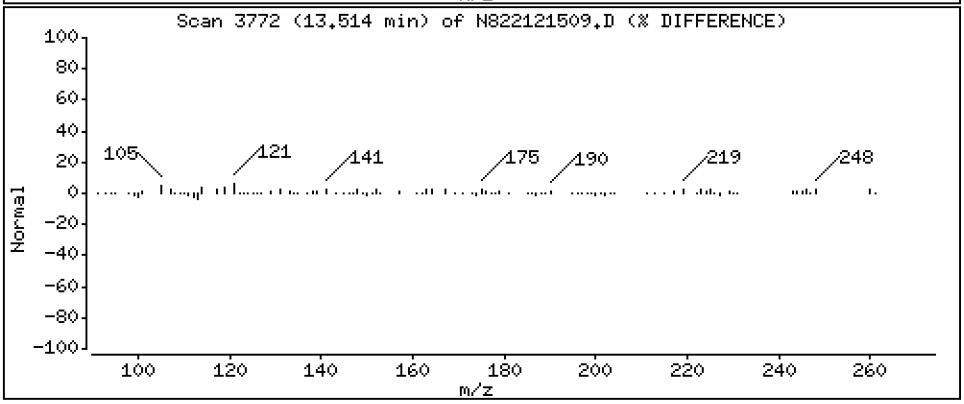












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121509.D

Date : 15-DEC-2022 18:28

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-06,3

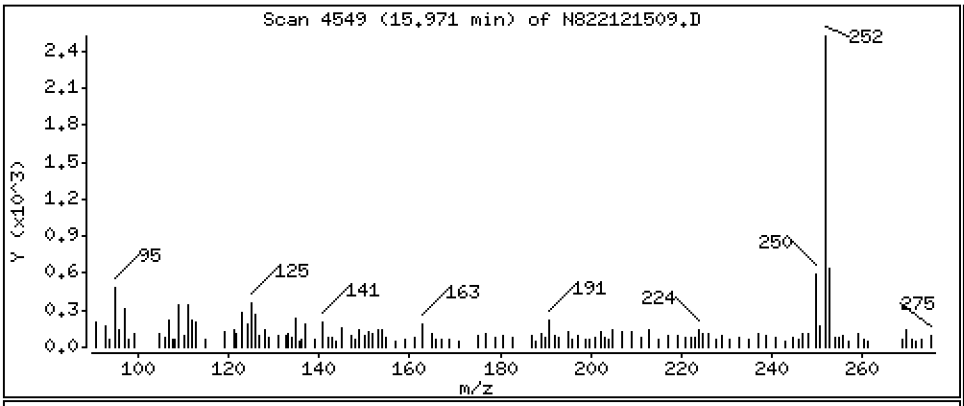
Operator: JZ

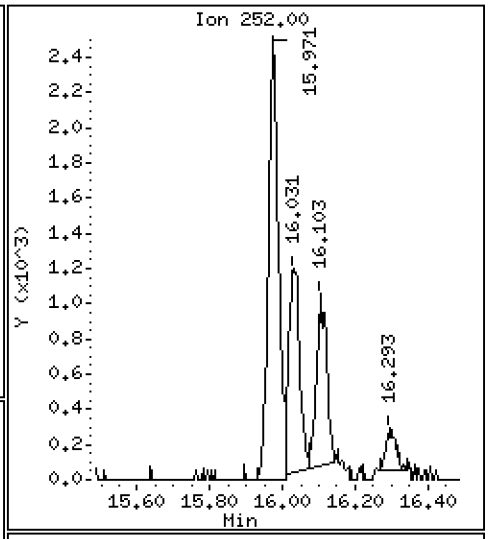
Column phase: Rxi-17sil

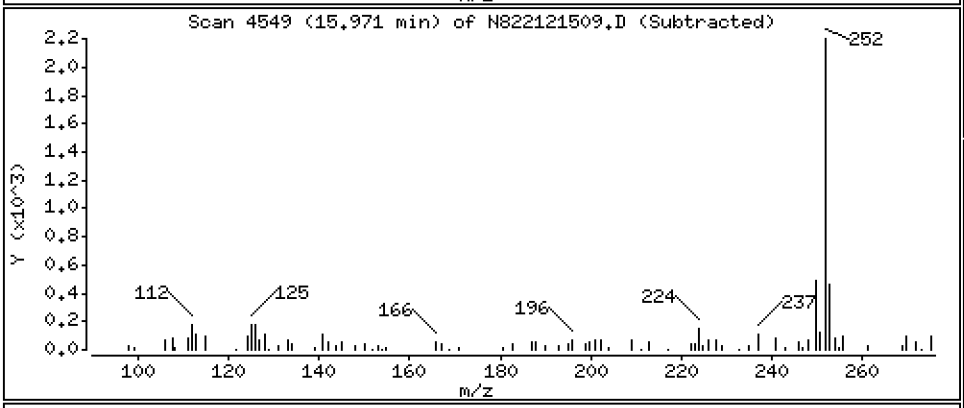
Column diameter: 0.25

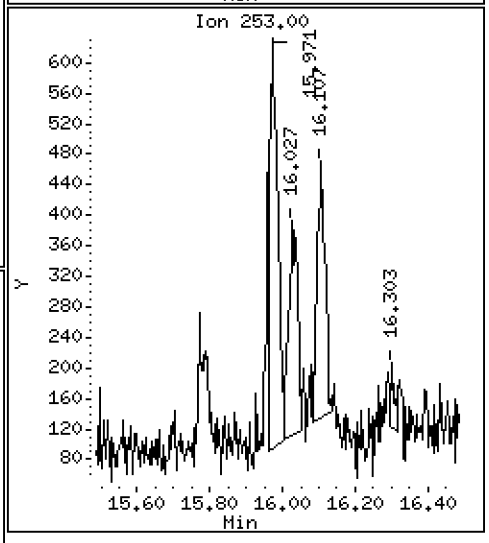
28 Benzo(b)fluoranthene

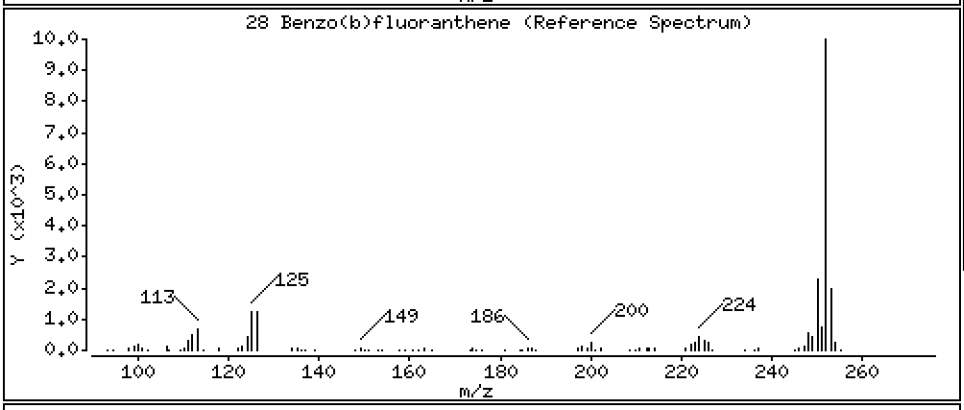
Concentration: 0.3887 ug/mL

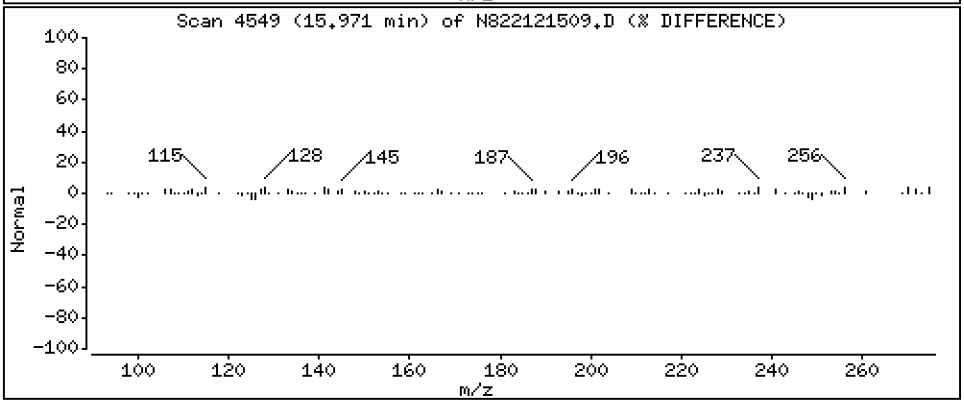












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121509.D

Date : 15-DEC-2022 18:28

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-06,3

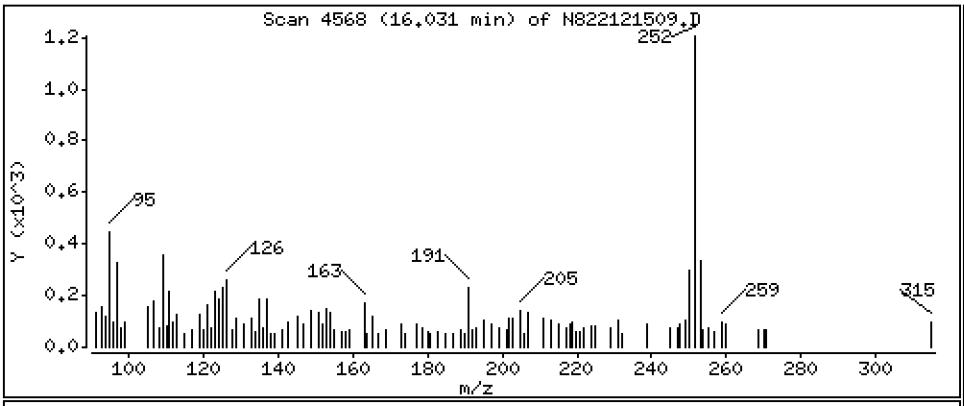
Operator: JZ

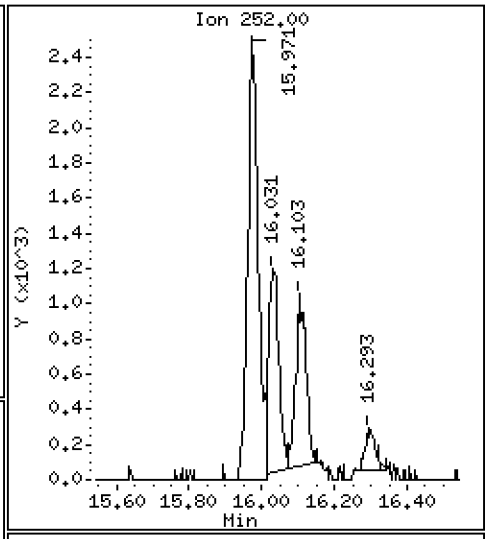
Column phase: Rxi-17sil

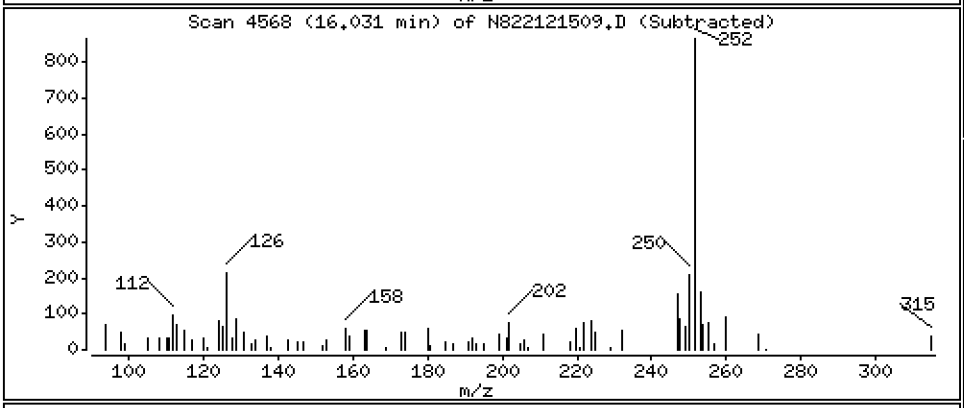
Column diameter: 0.25

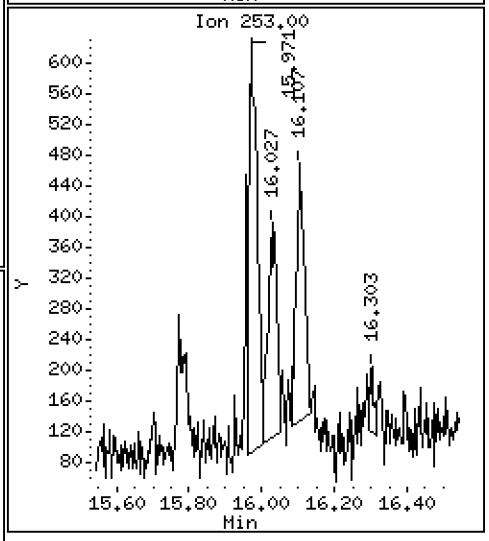
29 Benzo(k)fluoranthene

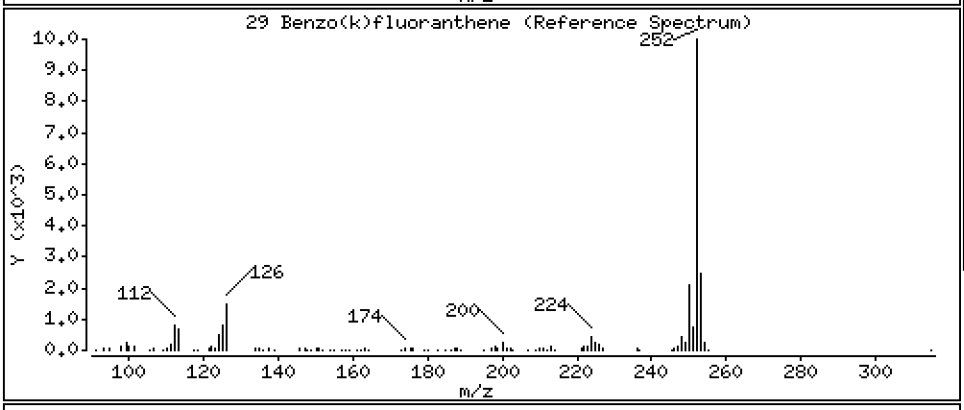
Concentration: 0.1996 ug/mL

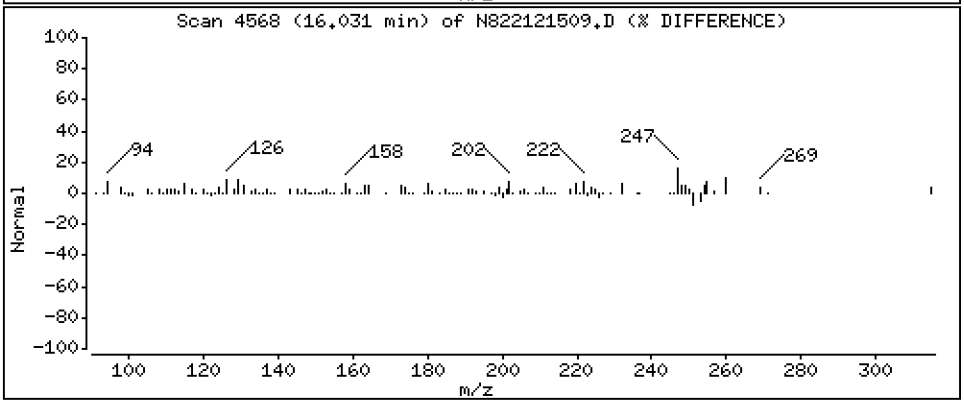












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Date : 15-DEC-2022 18:28

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-06,3

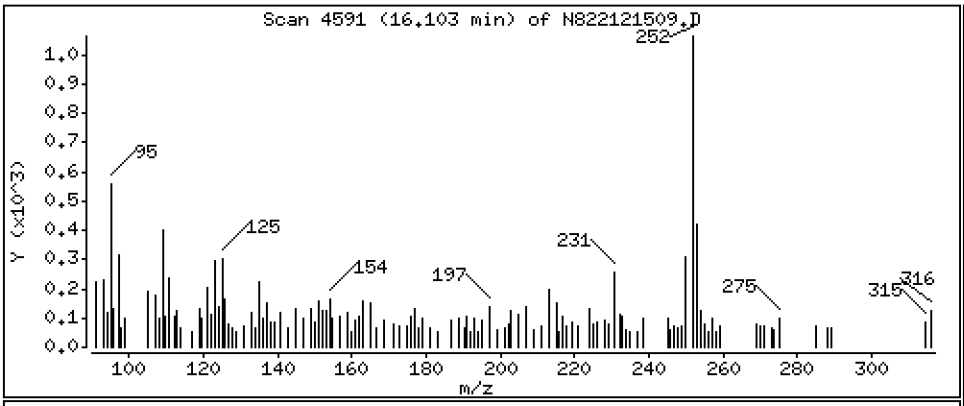
Operator: JZ

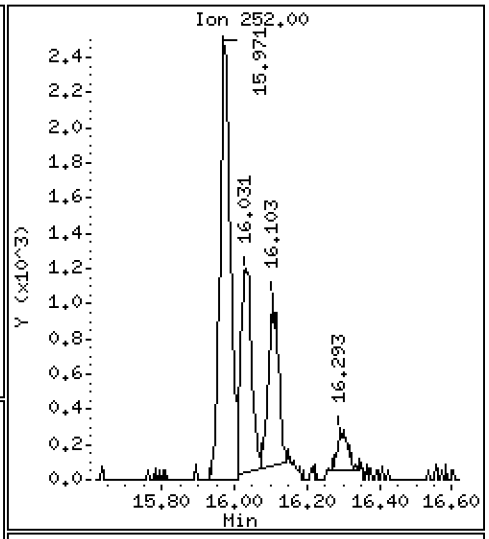
Column phase: Rxi-17sil

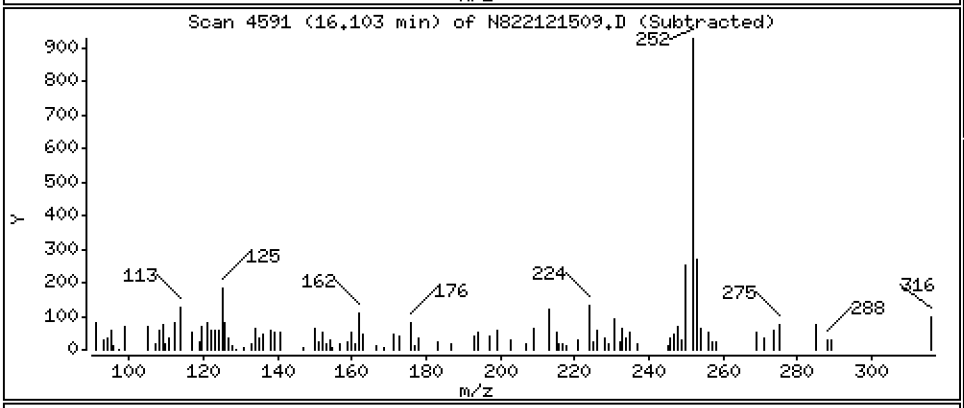
Column diameter: 0.25

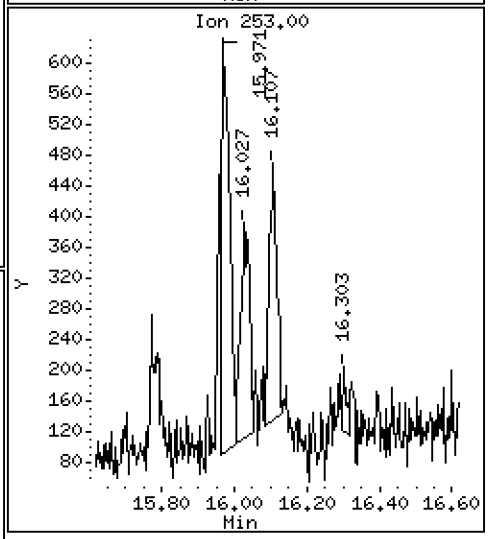
30 Benzo(j)fluoranthene

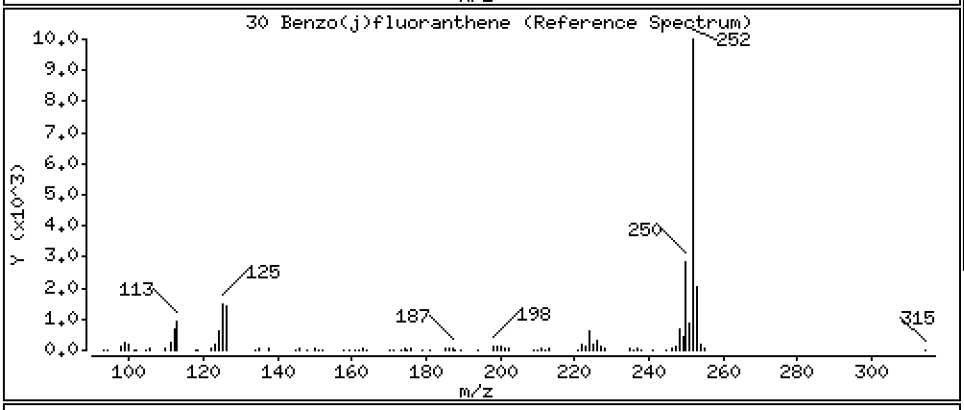
Concentration: 0.1708 ug/mL

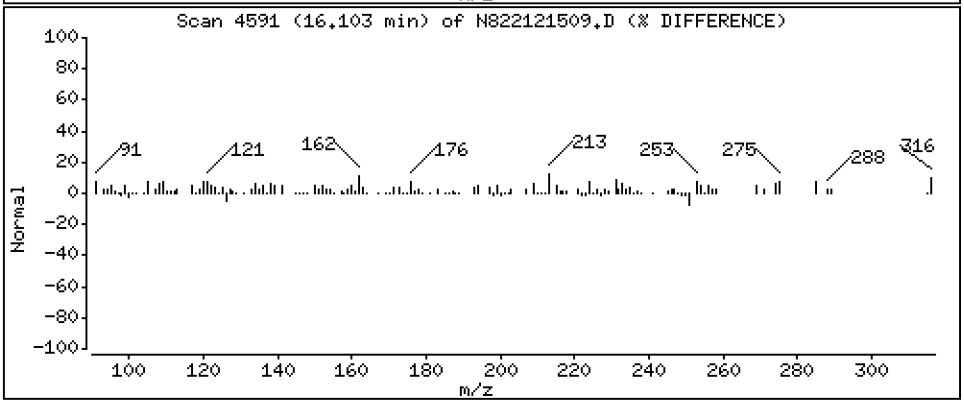












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121509.D

Date : 15-DEC-2022 18:28

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-06,3

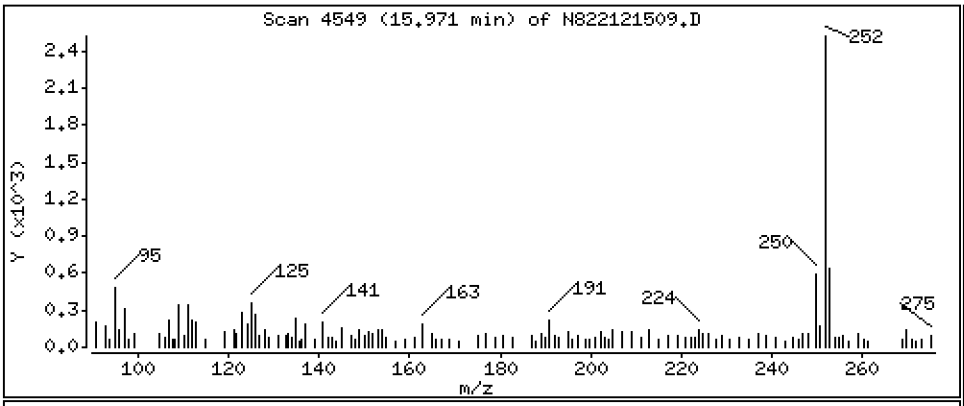
Operator: JZ

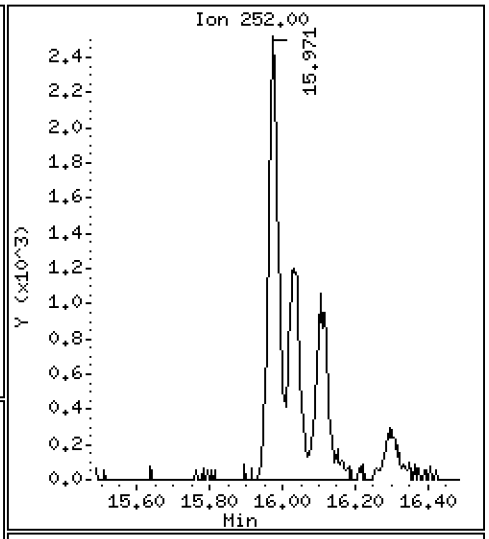
Column phase: Rxi-17sil

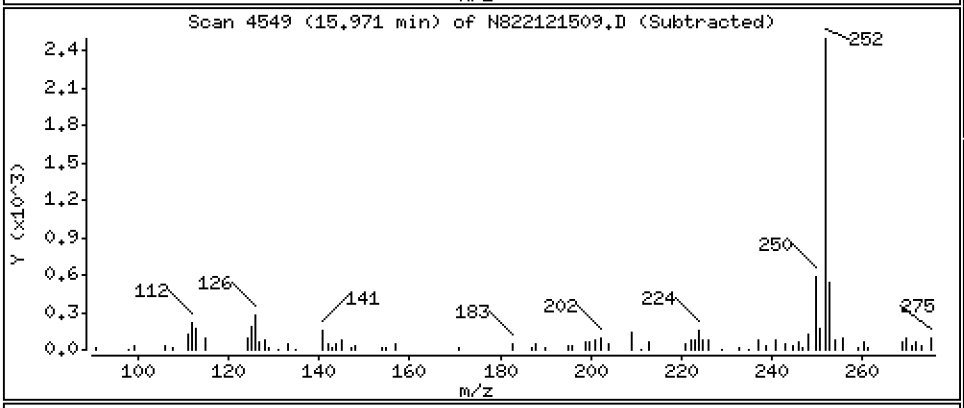
Column diameter: 0.25

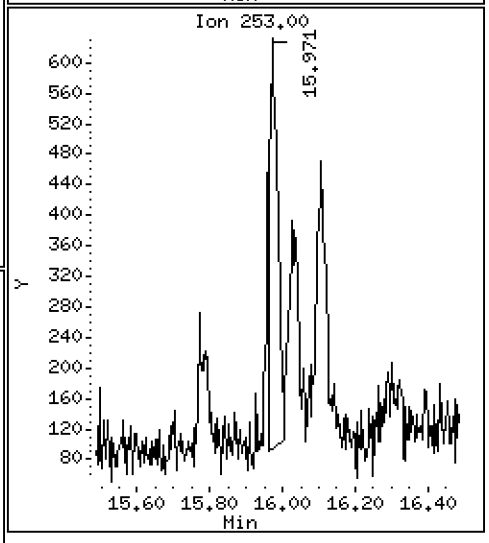
31 Total Benzofluoranthenes

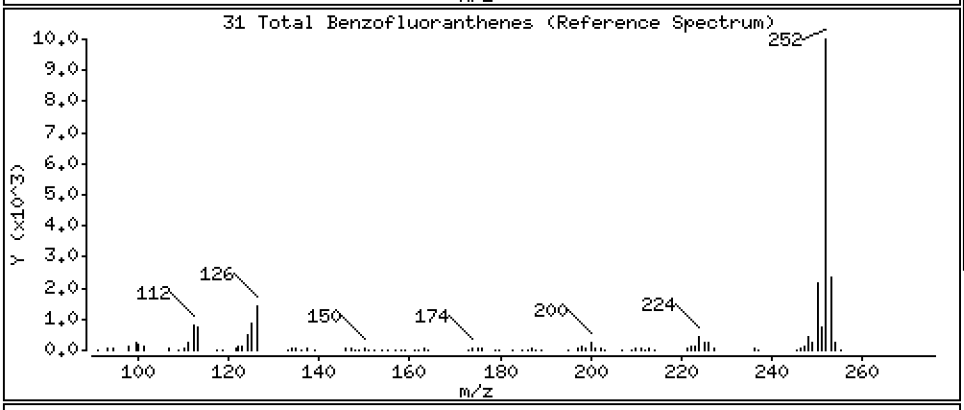
Concentration: 0.8333 ug/mL

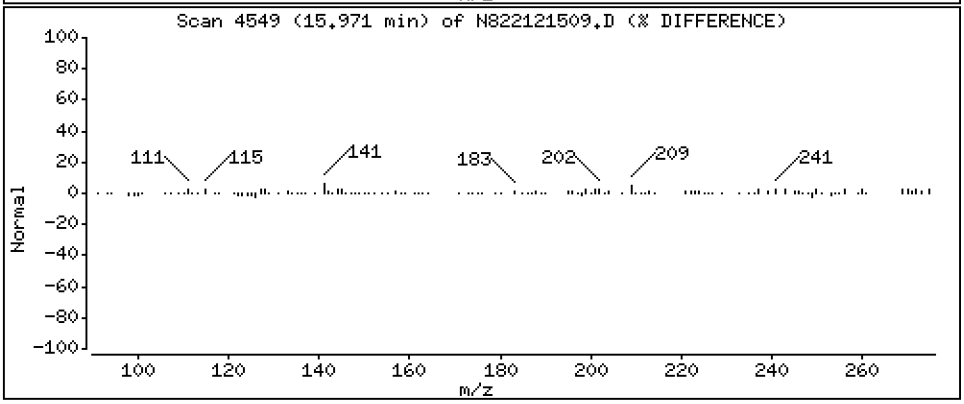












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121509.D

Date : 15-DEC-2022 18:28

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-06,3

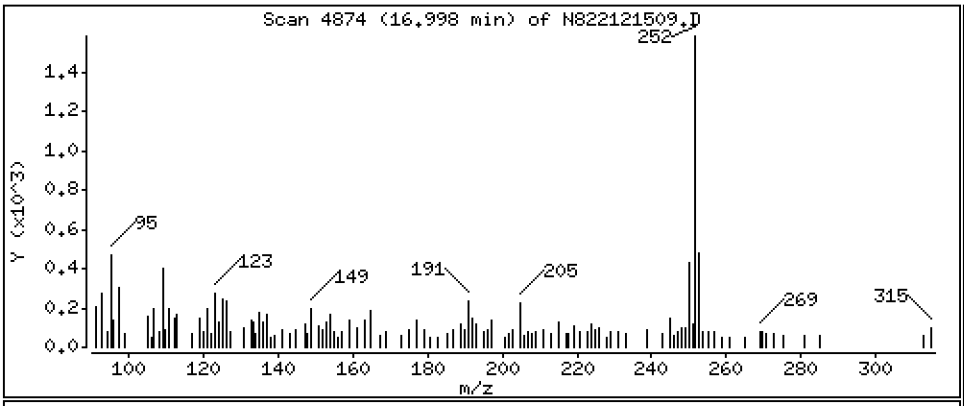
Operator: JZ

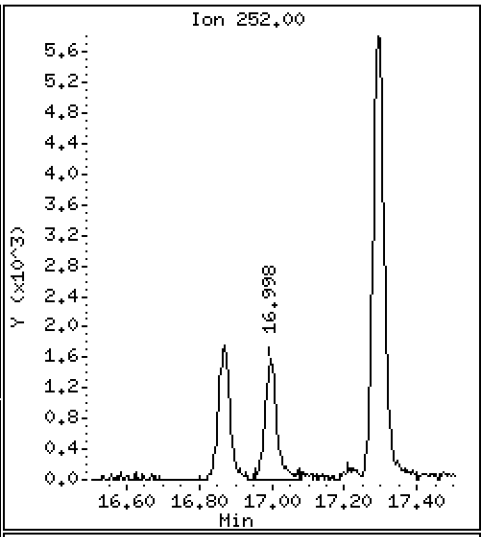
Column phase: Rxi-17sil

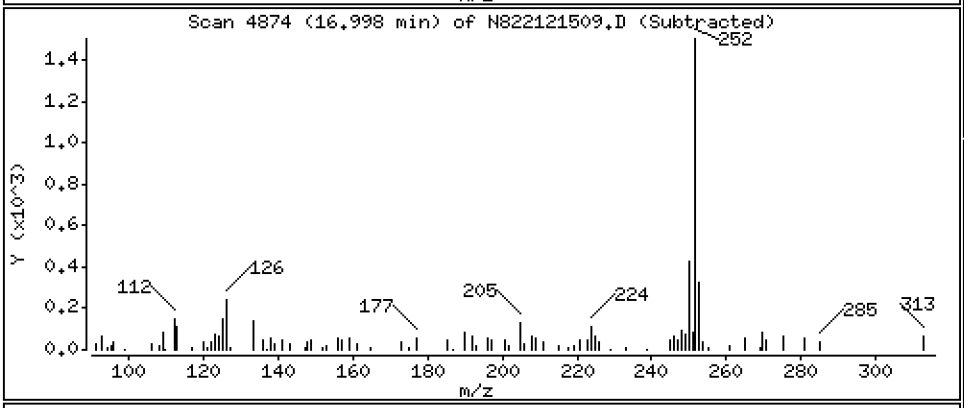
Column diameter: 0.25

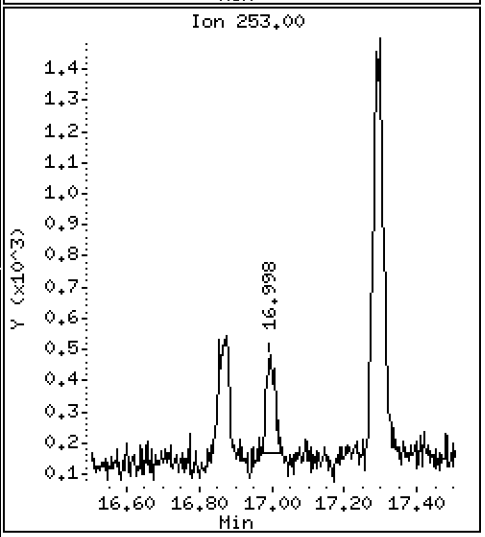
32 Benzo(a)pyrene

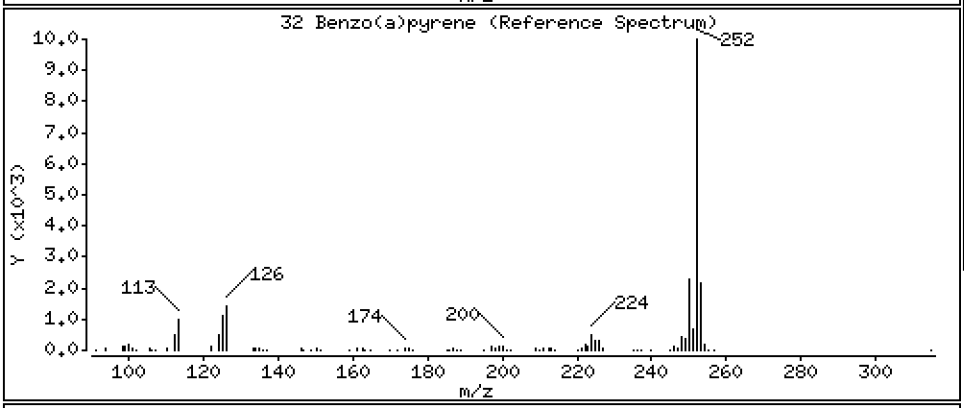
Concentration: 0.3407 ug/mL

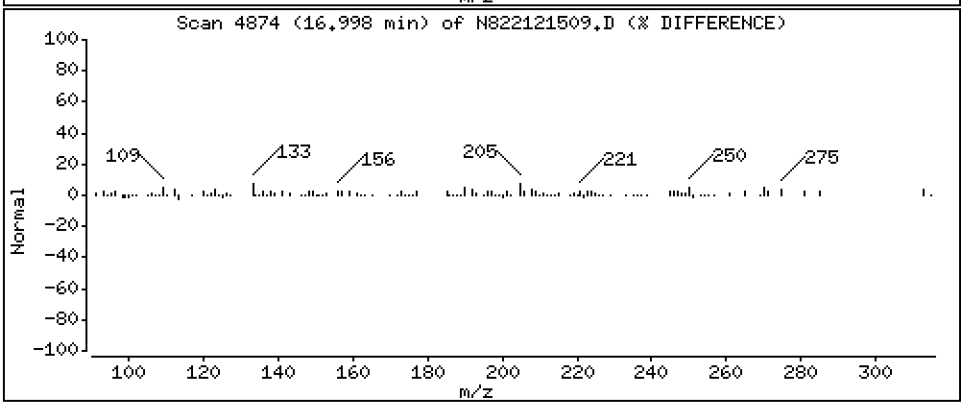












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121509.D

Date : 15-DEC-2022 18:28

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-06,3

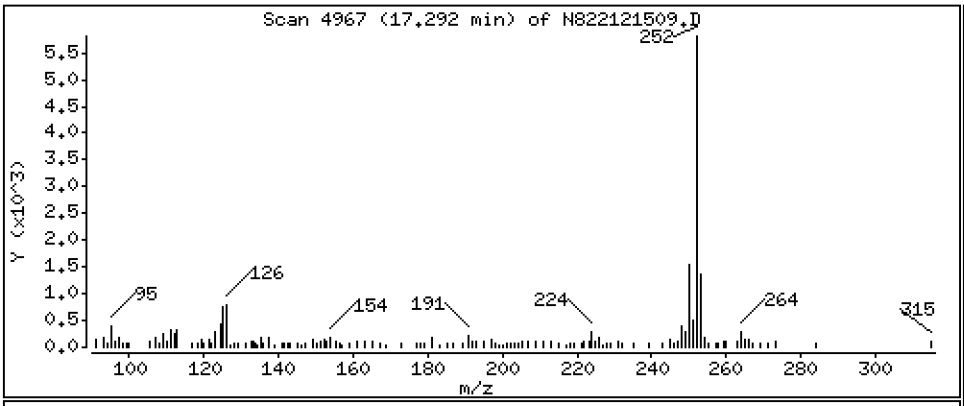
Operator: JZ

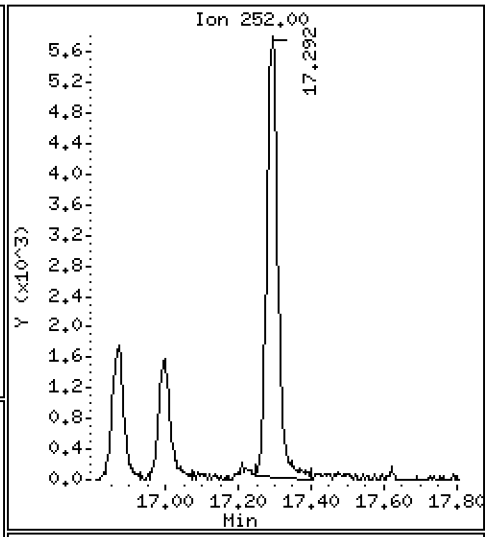
Column phase: Rxi-17sil

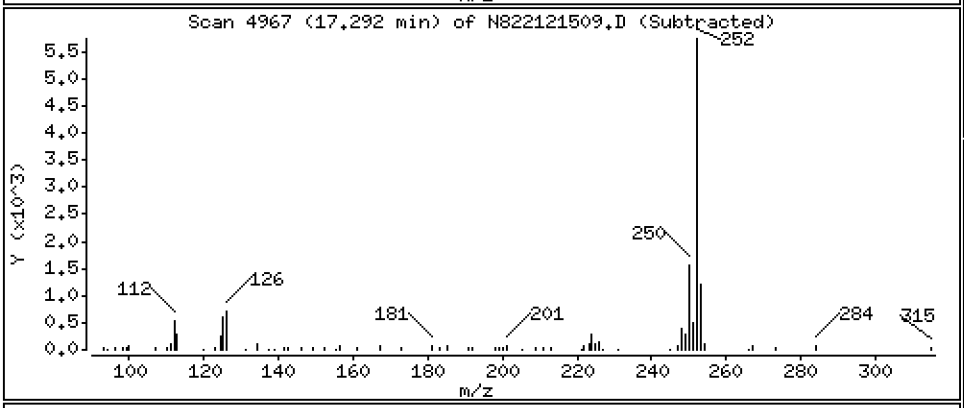
Column diameter: 0.25

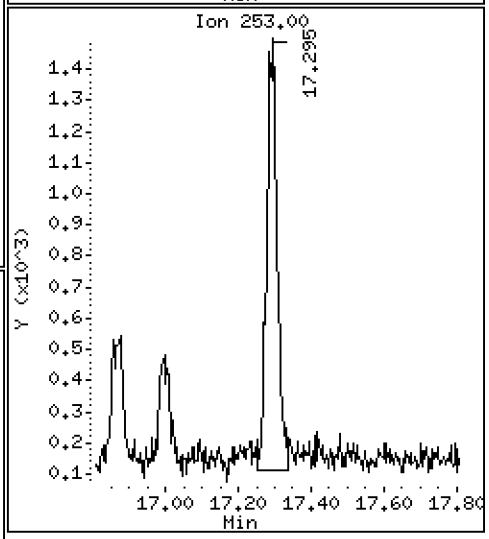
35 Perylene

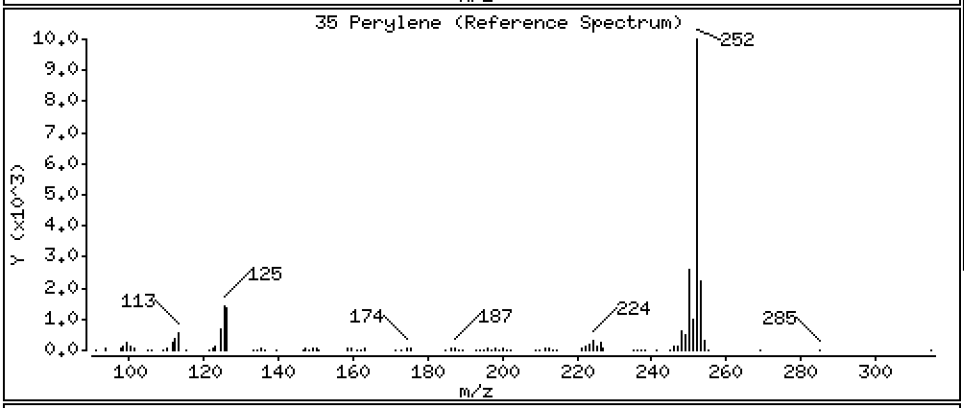
Concentration: 1.189 ug/mL

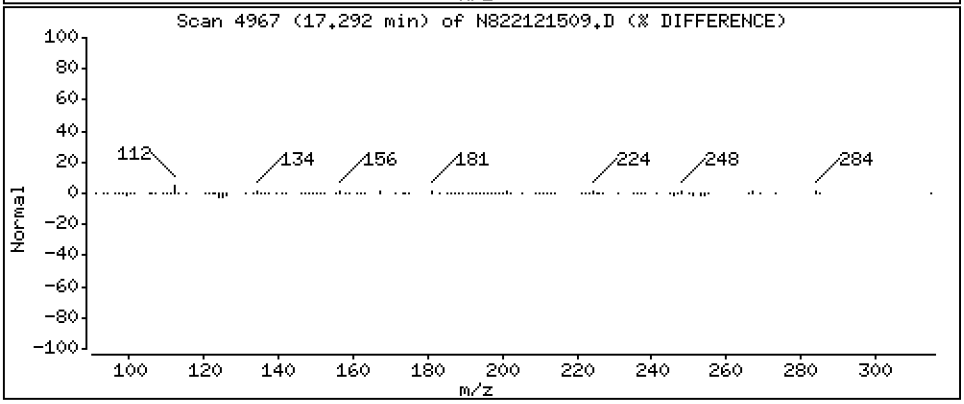












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121509.D

Date : 15-DEC-2022 18:28

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-06,3

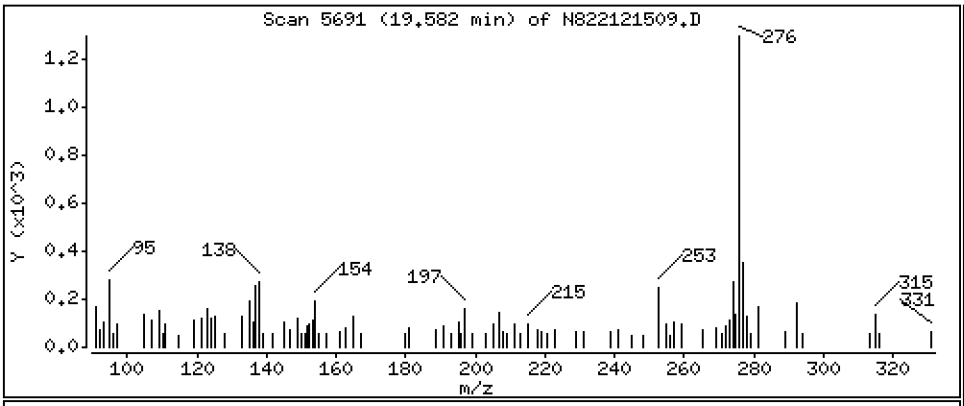
Operator: JZ

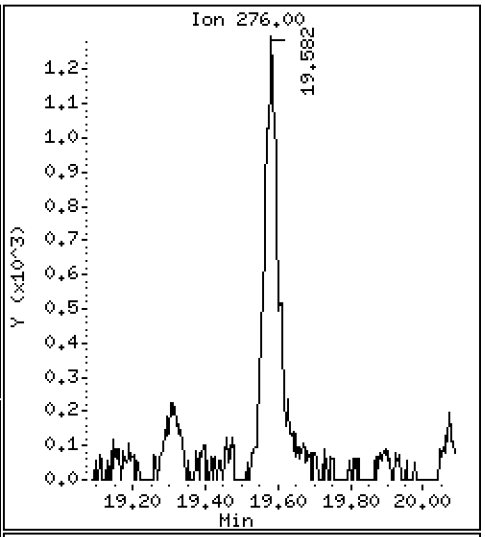
Column phase: Rxi-17sil

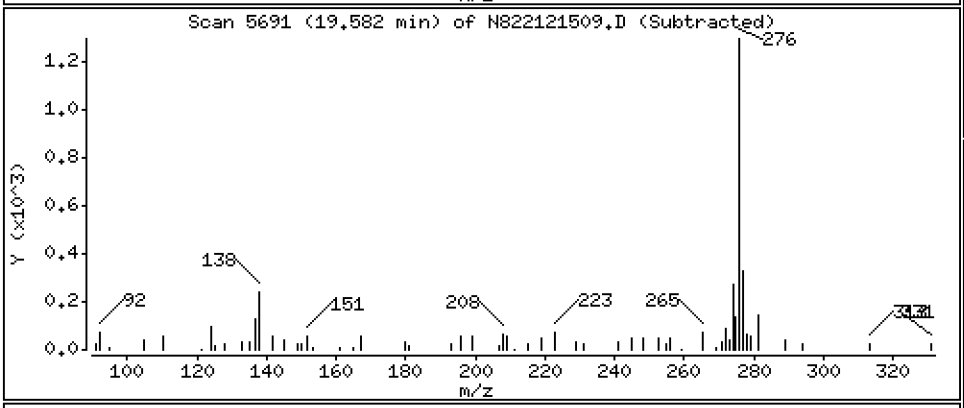
Column diameter: 0.25

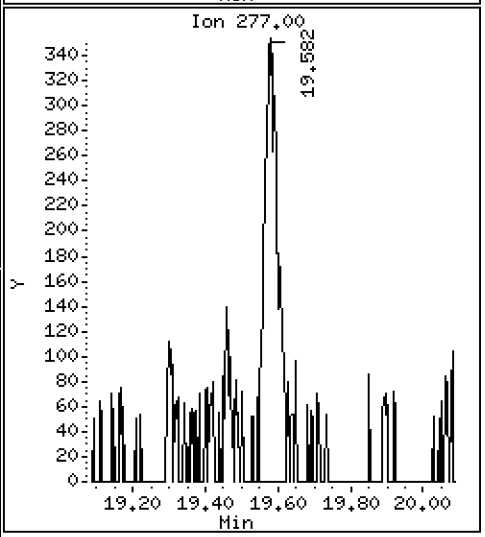
37 Indeno(1,2,3-cd)pyrene

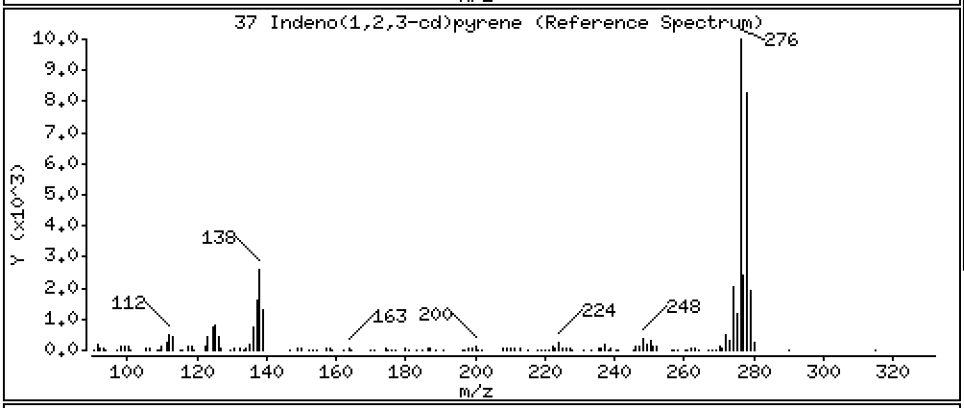
Concentration: 0.3656 ug/mL

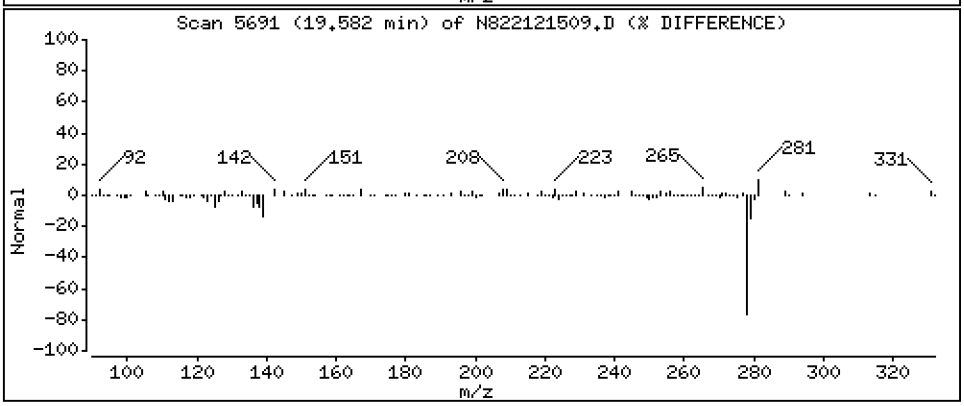












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121509.D

Date : 15-DEC-2022 18:28

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-06,3

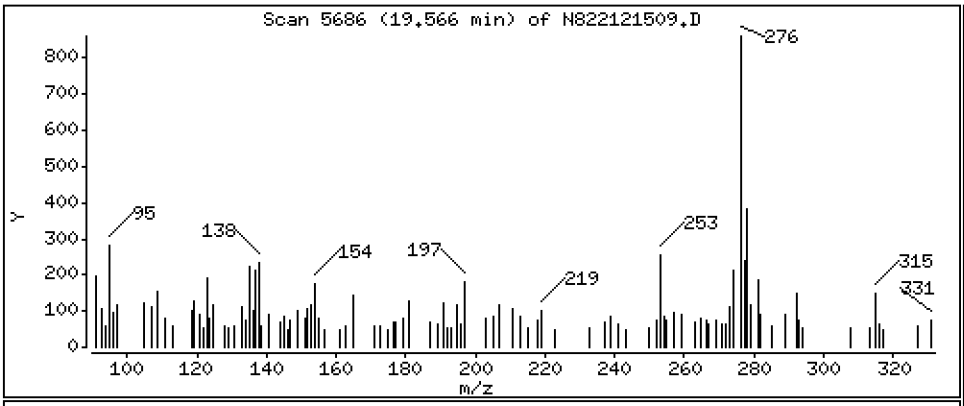
Operator: JZ

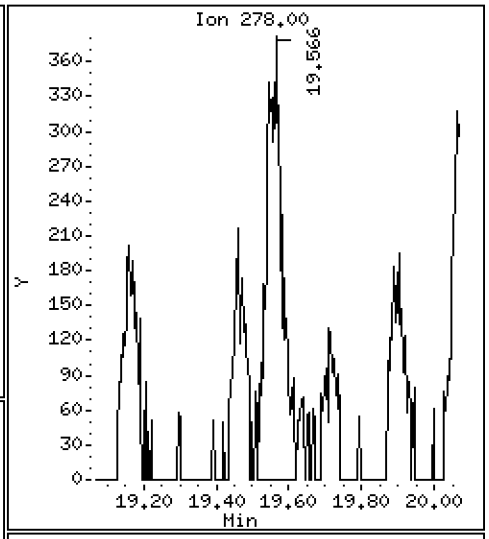
Column phase: Rxi-17sil

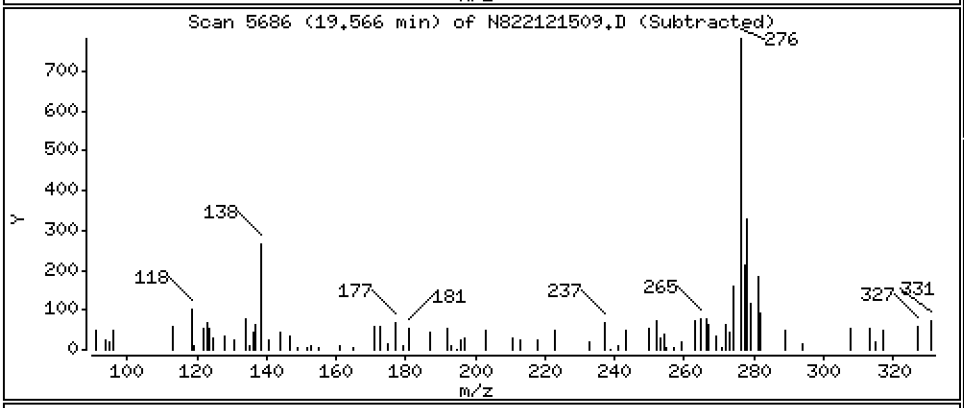
Column diameter: 0.25

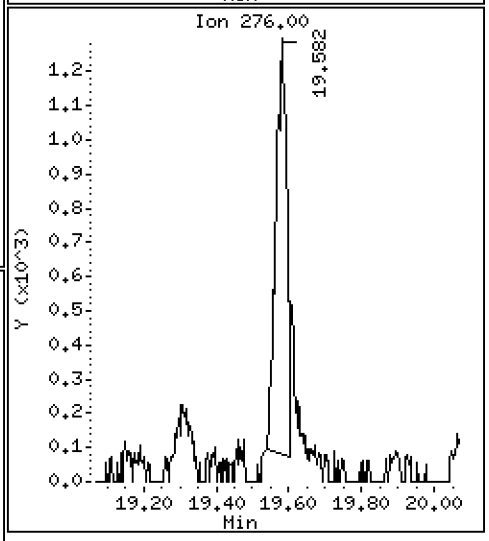
38 Dibenzo(a,h)anthracene

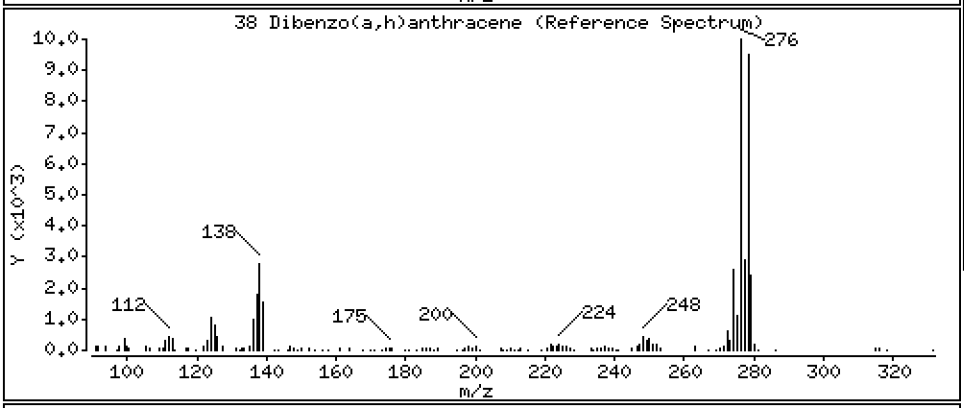
Concentration: 0.1262 ug/mL

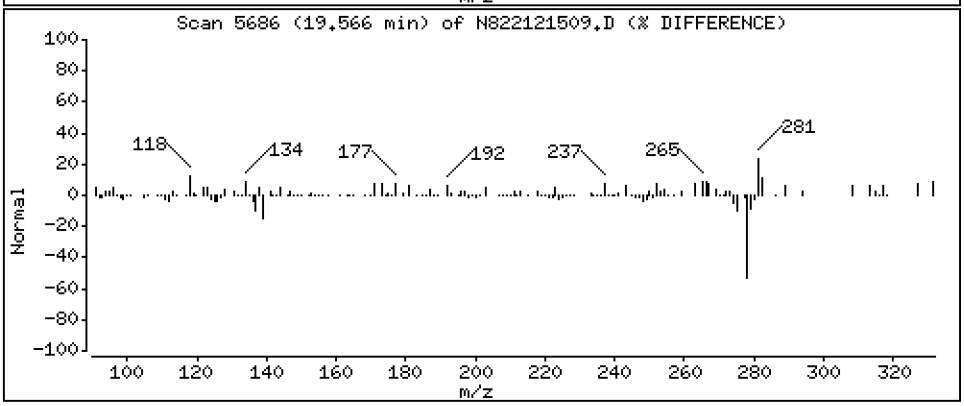












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121509.D

Date : 15-DEC-2022 18:28

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-06,3

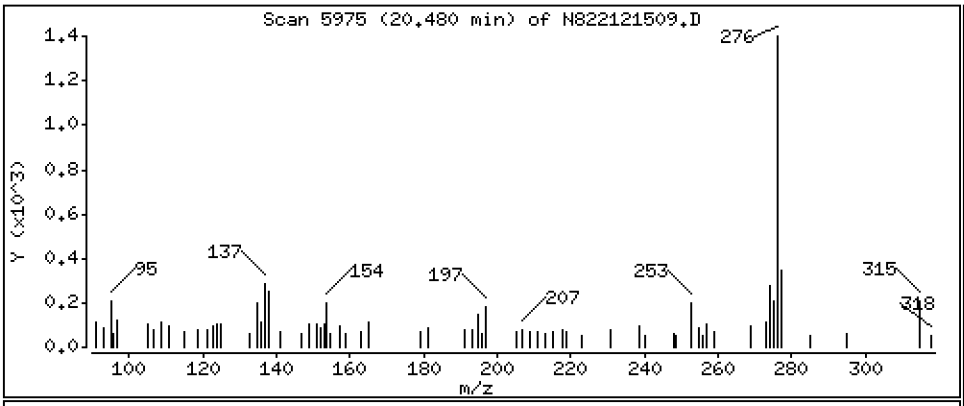
Operator: JZ

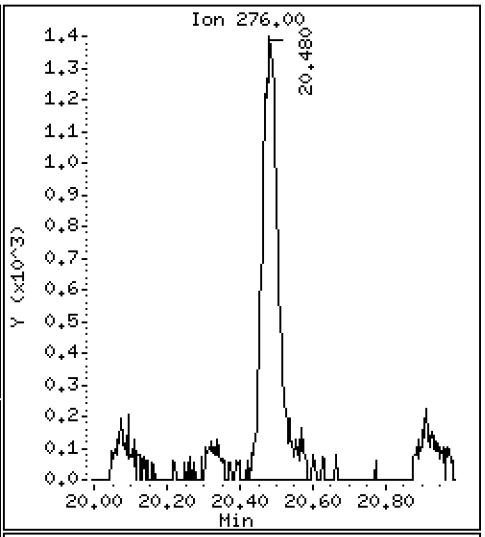
Column phase: Rxi-17sil

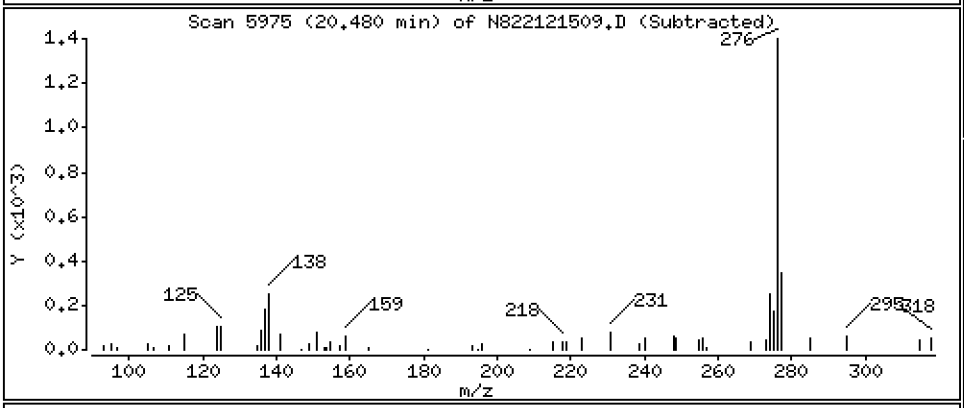
Column diameter: 0.25

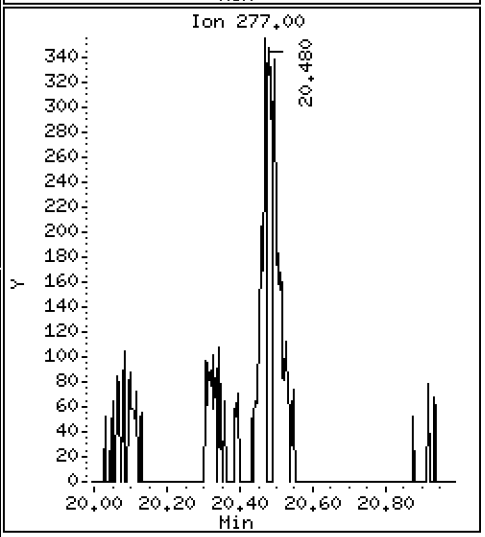
39 Benzo(g,h,i)perylene

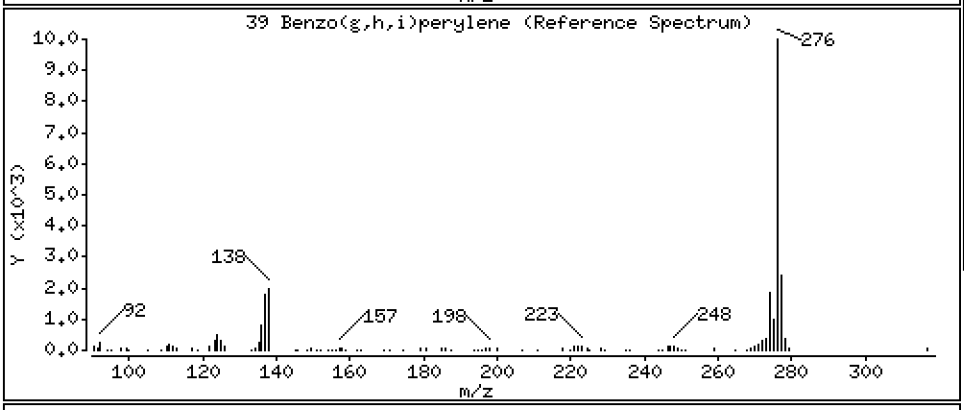
Concentration: 0.4595 ug/mL

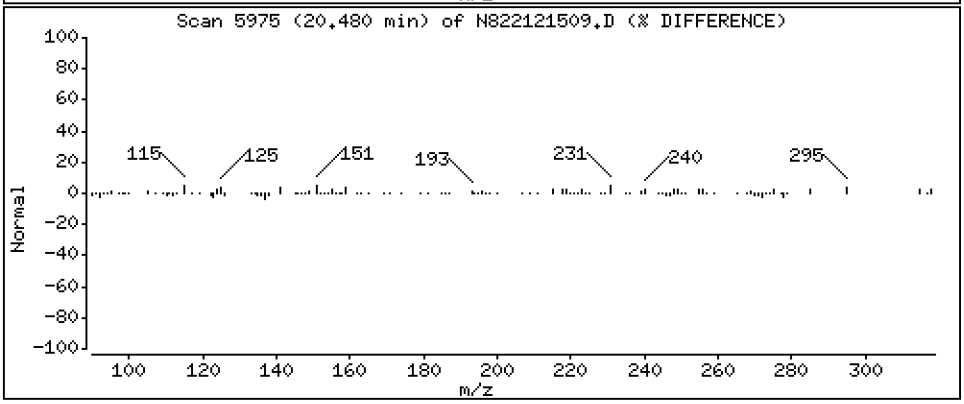












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20221215.b\N822121509.D
Lab Smp Id: 22L0136-06
Inj Date : 15-DEC-2022 18:28
Operator : JZ Inst ID: nt8.i
Smp Info : 22L0136-06,3
Misc Info : 22-
Comment   : 1ul Injection
Method   : \\target\share\chem3\nt8.i\20221215.b\FSIMPNA220411.m
Meth Date : 16-Dec-2022 15:49 jianqing Quant Type: ISTD
Cal Date : 12-APR-2022 15:49 Cal File: NT822041208.D
Als bottle: 9
Dil Factor: 3.00000
Integrator: HP RTE Compound Sublist: PNAXMDL.sub
Target Version: 4.14
Processing Host: JIANQING-202105

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
*	1 Naphthalene-d8	136	4.511	4.521	(1.000)	48642	2.00000	
	2 Naphthalene	128	4.536	4.549	(1.006)	742	0.03011	0.09032
$	3 2-Methylnaphthalene-d10	152	5.241	5.248	(1.162)	7597	0.41409	1.242
	4 2-Methylnaphthalene	141	5.286	5.295	(1.172)	581	0.04143	0.1243
	5 1-methylnaphthalene	141	Compound Not Detected.					
	9 Acenaphthylene	152	6.668	6.677	(0.984)	440	0.01691	0.05073
*	10 Acenaphthene-d10	164	6.778	6.785	(1.000)	30114	2.00000	
	11 Acenaphthene	153	6.829	6.835	(1.007)	1273	0.07374	0.2212(M)
	12 Dibenzofuran	168	6.981	6.987	(1.030)	718	0.02964	0.08893
	14 Fluorene	166	7.452	7.458	(1.099)	553	0.02838	0.08514
*	15 Phenanthrene-d10	188	8.799	8.805	(1.000)	56479	2.00000	
	16 Phenanthrene	178	8.837	8.840	(1.004)	5275	0.17606	0.5282
	17 Anthracene	178	8.875	8.881	(1.009)	1160	0.04042	0.1213
	22 Fluoranthene	202	10.509	10.512	(1.194)	10644	0.32468	0.9741
$	21 Fluoranthene-d10	212	10.475	10.478	(1.190)	18768	0.50253	1.508
	23 Pyrene	202	10.990	10.984	(0.817)	10529	0.30965	0.9289
	24 Benzo(a)anthracene	228	13.323	13.333	(0.991)	3500	0.11007	0.3302(M)
*	25 Chrysene-d12	240	13.444	13.453	(1.000)	50309	2.00000	
	27 Chrysene	228	13.513	13.526	(1.005)	4655	0.15321	0.4596
	28 Benzo(b)fluoranthene	252	15.970	15.986	(0.927)	5076	0.12957	0.3887
	29 Benzo(k)fluoranthene	252	16.030	16.043	(0.931)	2418	0.06654	0.1996
	30 Benzo(j)fluoranthene	252	16.103	16.119	(0.935)	1901	0.05694	0.1708
	31 Total Benzofluoranthenes	252	15.970	15.986	(0.927)	10036	0.27776	0.8333(M)
	32 Benzo(a)pyrene	252	16.998	17.004	(0.987)	3672	0.11355	0.3407(M)
*	33 Perylene-d12	264	17.222	17.229	(1.000)	55175	2.00000	
	35 Perylene	252	17.292	17.308	(1.004)	12832	0.39627	1.189(M)
$	36 Dibenzo(a,h)anthracene-d14	292	19.461	19.470	(1.130)	17217	0.72637	2.179(M)
	37 Indeno(1,2,3-cd)pyrene	276	19.581	19.587	(1.137)	3865	0.12186	0.3656(M)
	38 Dibenzo(a,h)anthracene	278	19.565	19.568	(1.136)	1151	0.04207	0.1262(M)
	39 Benzo(g,h,i)perylene	276	20.479	20.492	(1.189)	4519	0.15317	0.4595(M)

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt8.i
Lab File ID: N822121509.D
Lab Smp Id: 22L0136-06
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: \\target\share\chem3\nt8.i\20221215.b\FSIMPNA220411.m
Misc Info: 22-

Calibration Date: 15-DEC-2022
Calibration Time: 10:02
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	49492	24746	98984	48642	-1.72
10 Acenaphthene-d10	30076	15038	60152	30114	0.13
15 Phenanthrene-d10	58825	29413	117650	56479	-3.99
25 Chrysene-d12	58593	29297	117186	50309	-14.14
33 Perylene-d12	63012	31506	126024	55175	-12.44

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	4.52	4.02	5.02	4.51	-0.21
10 Acenaphthene-d10	6.79	6.29	7.29	6.78	-0.09
15 Phenanthrene-d10	8.81	8.31	9.31	8.80	-0.07
25 Chrysene-d12	13.45	12.95	13.95	13.44	-0.07
33 Perylene-d12	17.23	16.73	17.73	17.22	-0.04

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

REVIEW SUMMARY FOR FILE - N822121509.D

Lab ID: 22L0136-06
nt8.i, 20221215.b\FSIMPNA220411.m,   15-DEC-2022 18:28

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

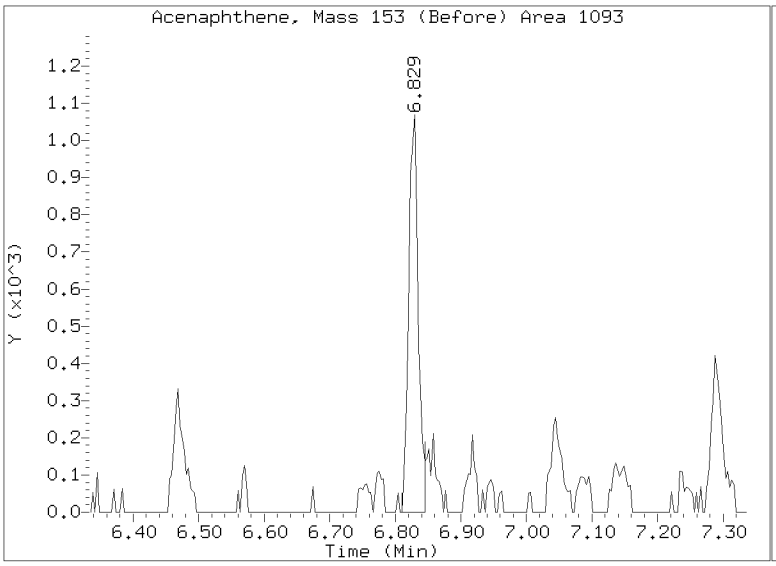
No RRT check performed

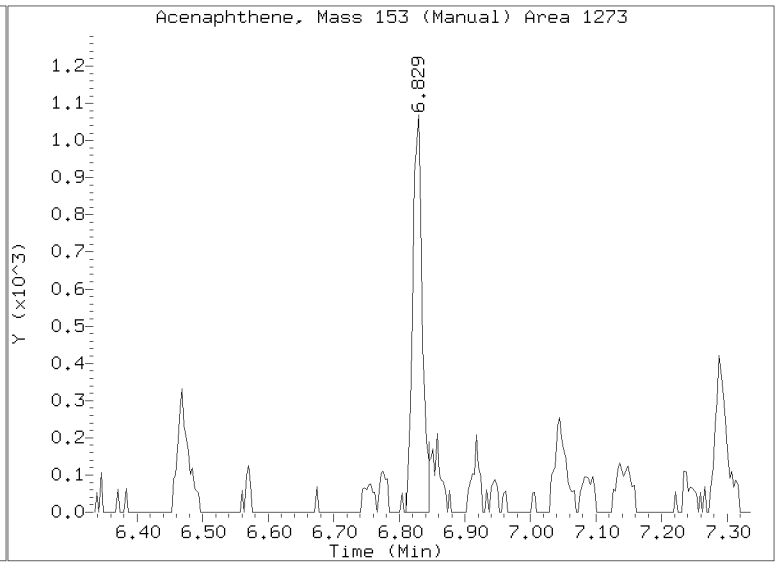
On Column LOD for nt8.i, 20221215.b\FSIMPNA220411.m, PNAXMDL.sub = 0.0080

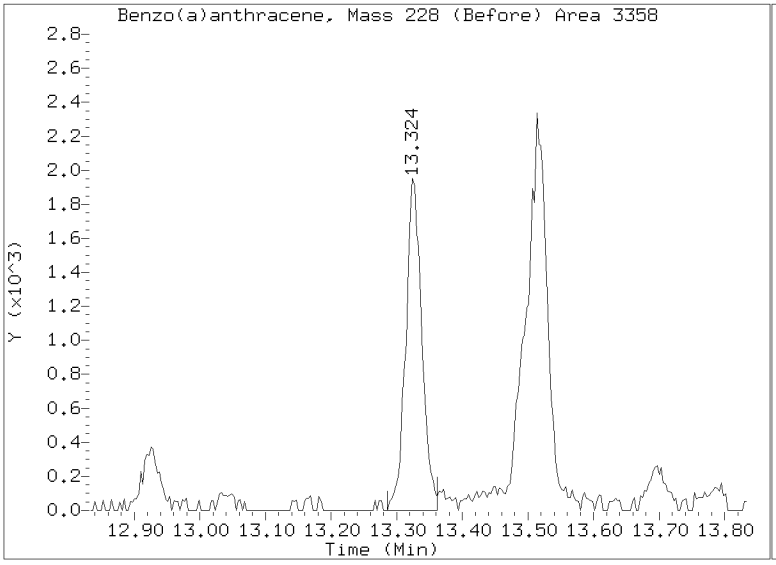
* Only compounds listed in the work order have been verified by the analyst *

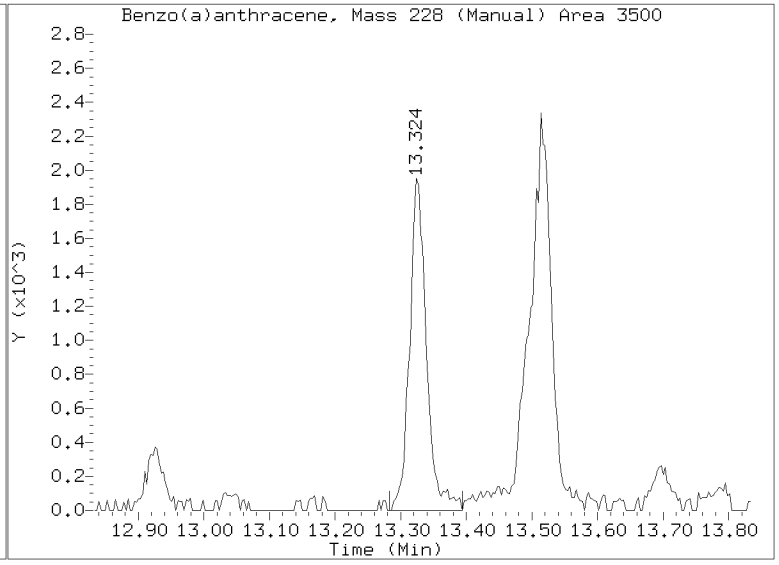
Quant Ion Manual Peak Adjustment Report

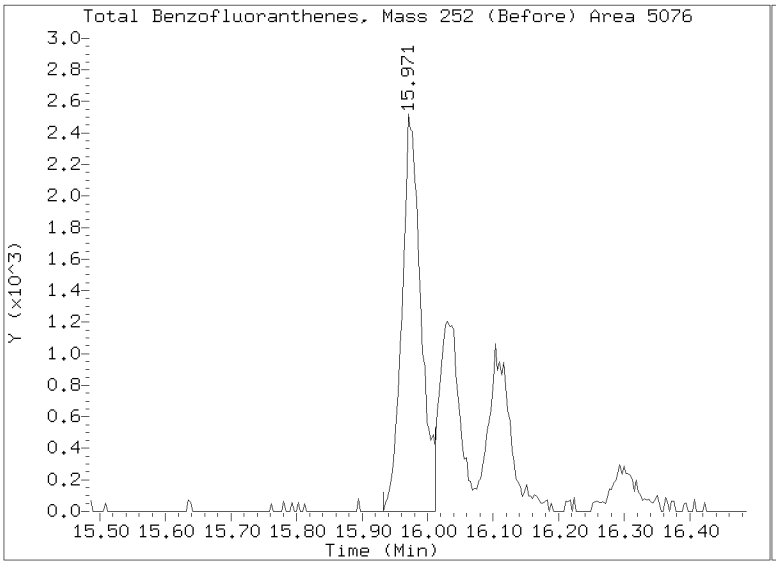
Datafile: //target/share/chem3/nt8.i/20221215.b/N822121509.D
Injection Date: 15-DEC-2022 18:28
Lab ID:22L0136-06 Client ID:
Report Date: 12/16/2022 16:17

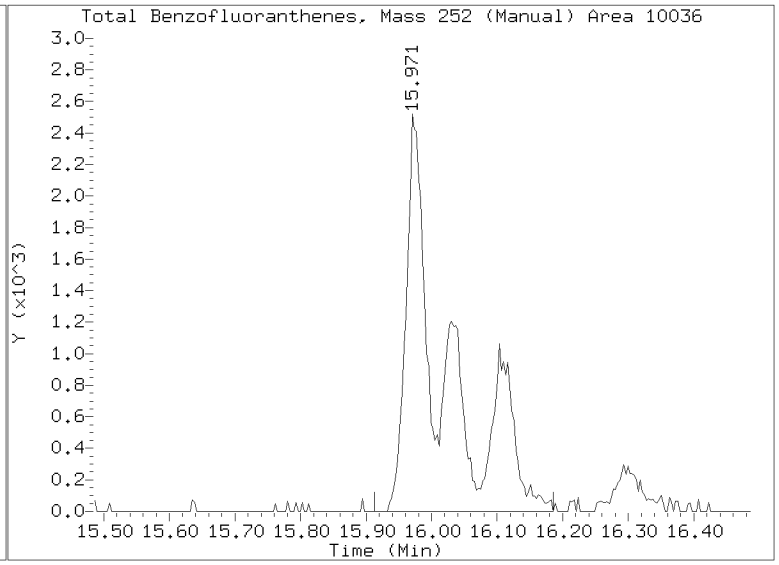






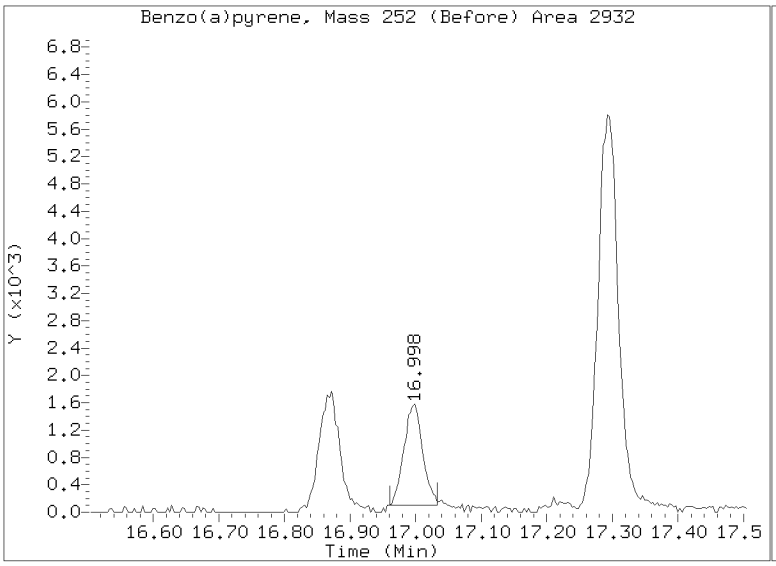


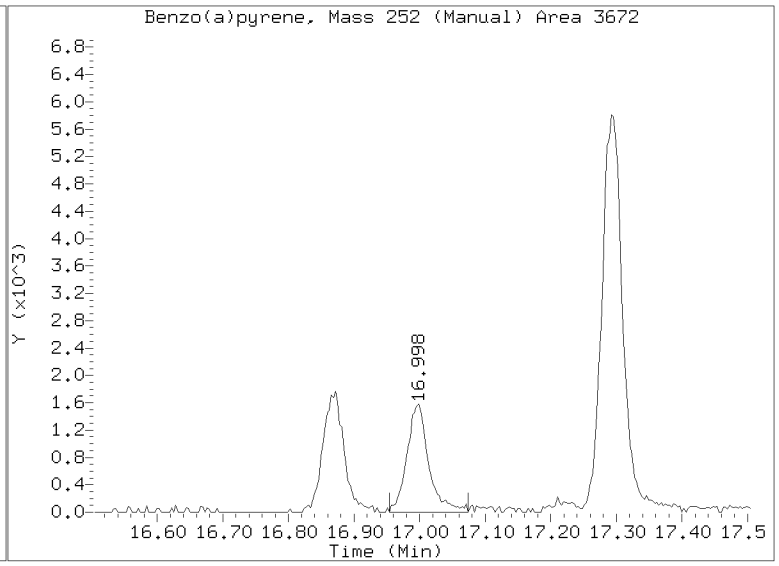


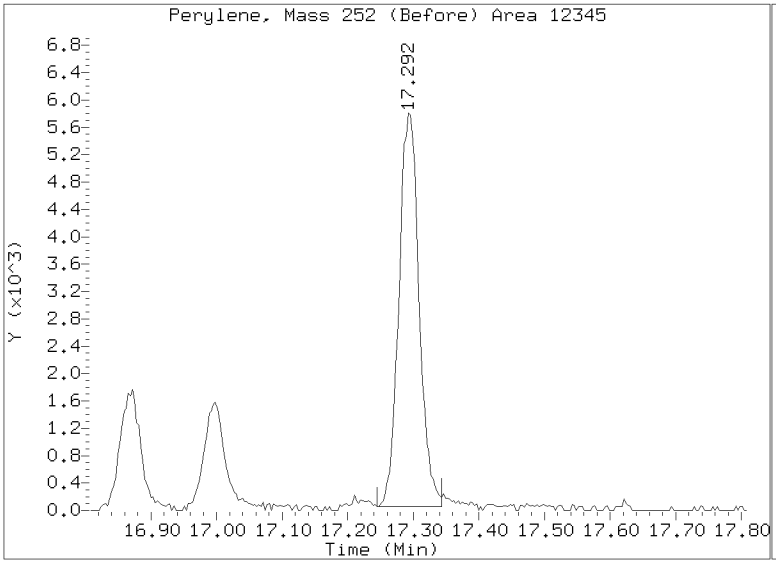


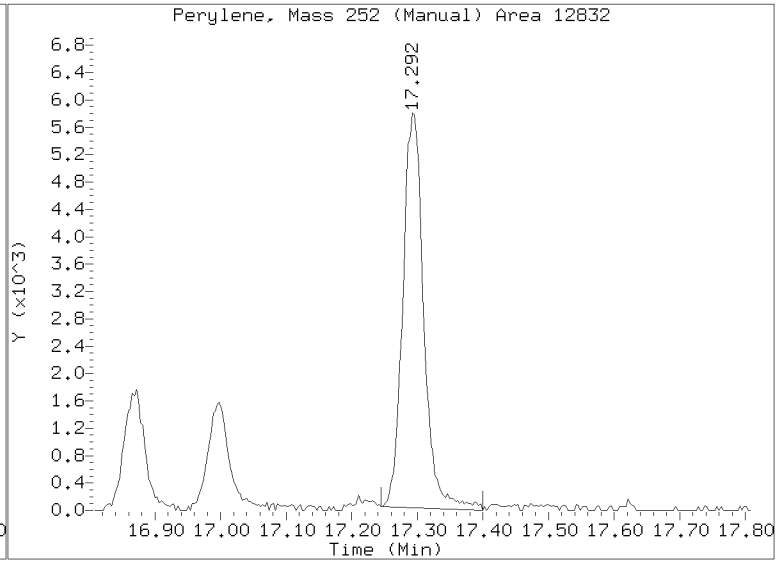
Quant Ion Manual Peak Adjustment Report

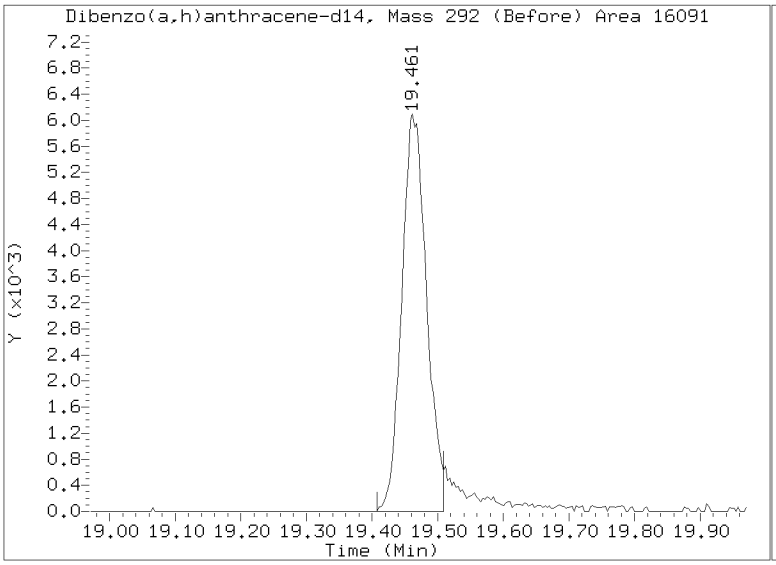
Datafile: //target/share/chem3/nt8.i/20221215.b/N822121509.D
Injection Date: 15-DEC-2022 18:28
Lab ID:22L0136-06 Client ID:
Report Date: 12/16/2022 16:17

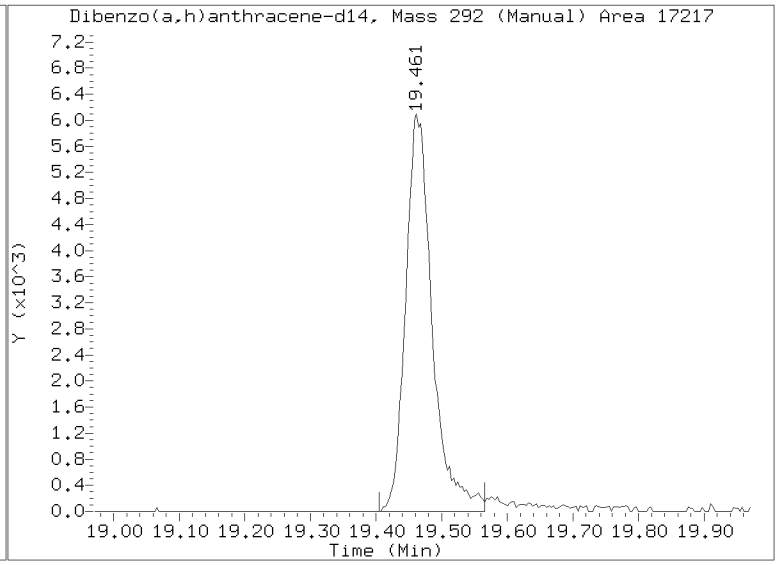












Quant Ion Manual Peak Adjustment Report

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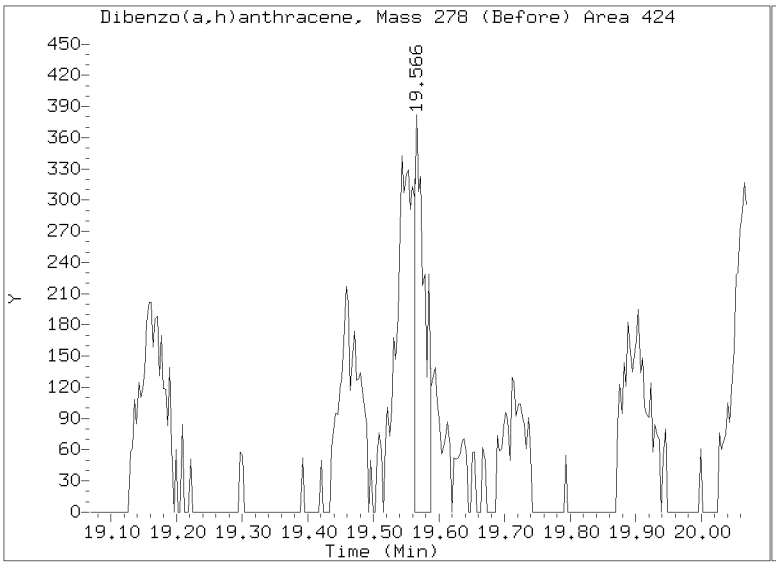
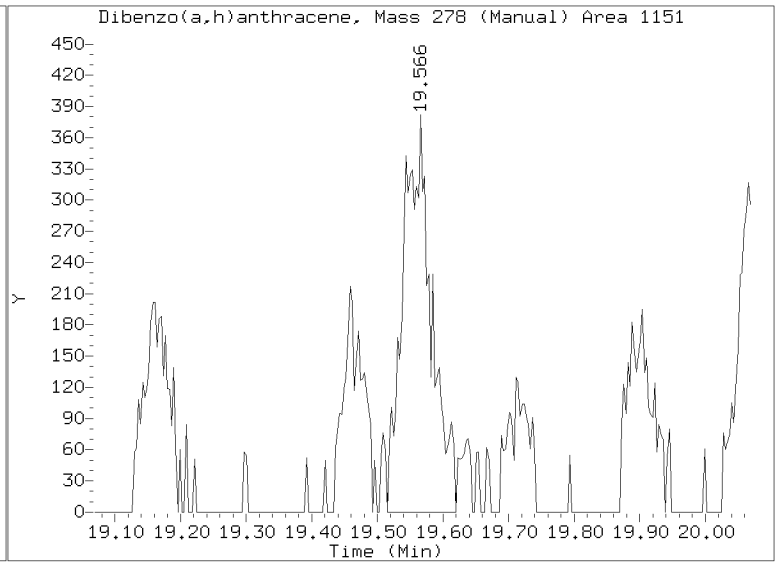
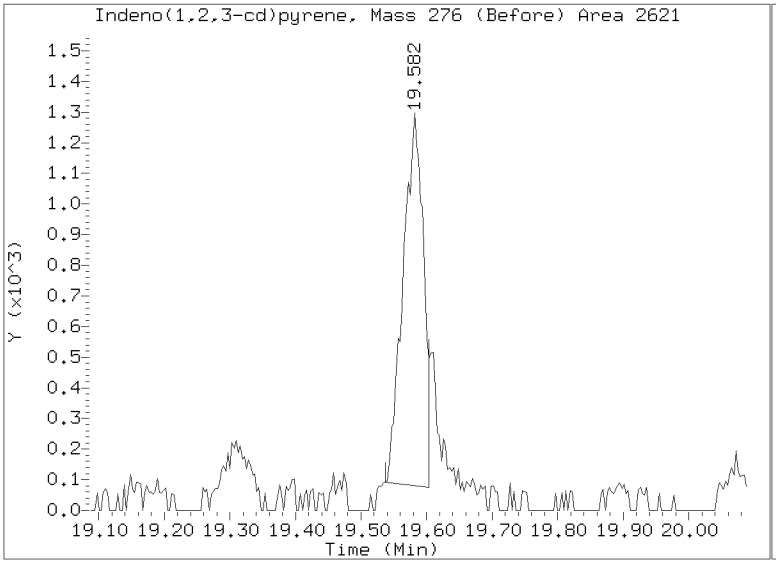
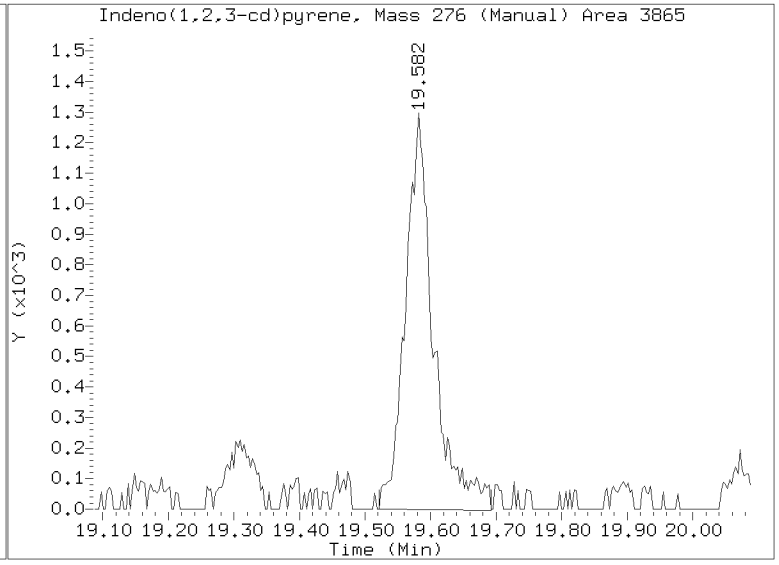
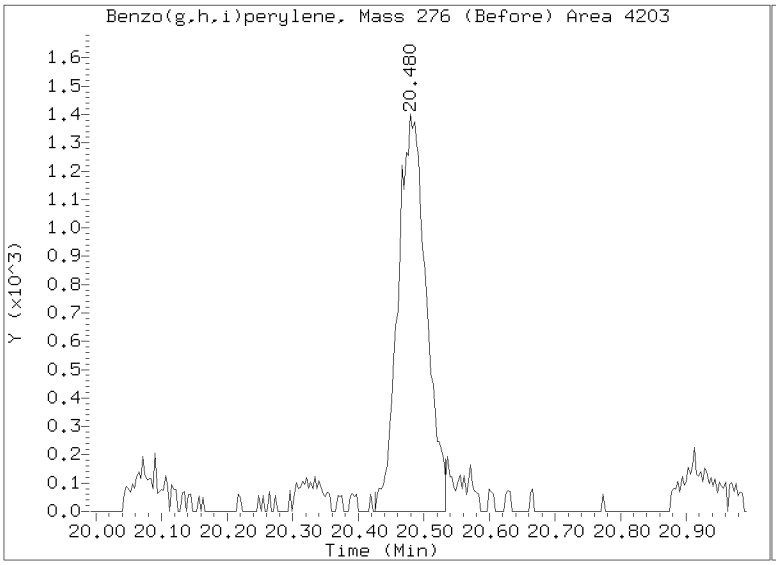
Lab ID:22L0136-06 Client ID:
Report Date: 12/16/2022 16:17

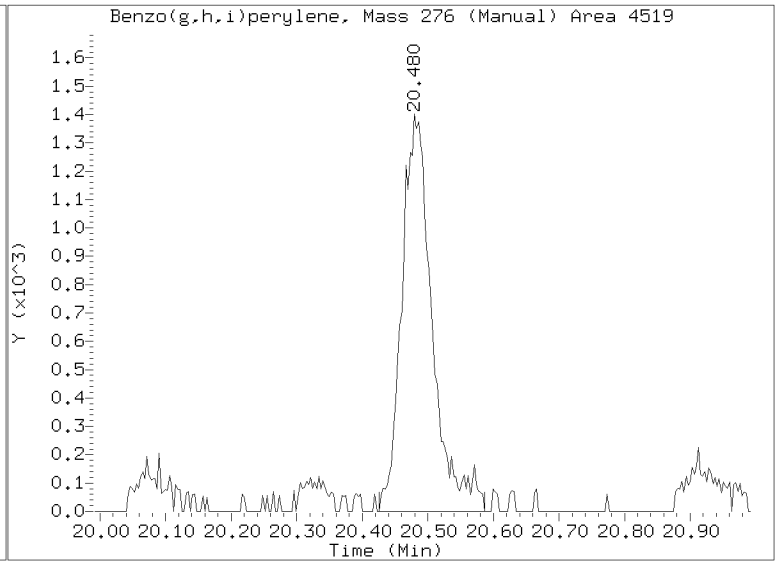












Analytical Resources, LLC
Analytical Chemists and Consultants

LDW22-SS825

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E-SIM

Polynuclear Aromatic Hydrocarbons

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-13 A	SDG:	22L0136
Sampled:	12/06/22 14:28	Prepared:	12/09/22 14:08	File ID:	N822121512.D
% Solids:	41.70	Preparation:	EPA 3546 (Microwave)	Analyzed:	12/15/22 19:49
Batch:	BKL0196	Sequence:	SKL0227	Initial/Final:	23.99 g Wet / 0.5 mL
Instrument:	NT8	Column:	RXI-17Sil ms	Calibration:	FD00034
Cleanups:	GPC, Silica Gel				

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
56-55-3	Benzo(a)anthracene	3	37.0	D	2.47	15.0
218-01-9	Chrysene	3	48.8	D	3.16	15.0
205-99-2	Benzo(b)fluoranthene	3	34.0	D	4.11	15.0
207-08-9	Benzo(k)fluoranthene	3	21.4	D	2.28	15.0
50-32-8	Benzo(a)pyrene	3	42.2	D	1.84	15.0
193-39-5	Indeno(1,2,3-cd)pyrene	3	36.0	D	3.15	15.0
53-70-3	Dibenzo(a,h)anthracene	3	10.5	J, D	2.67	15.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Methylnaphthalene-d10	149.94	71.1	47.4	32 - 120	
Dibenzo[a,h]anthracene-d14	149.94	125	83.4	21 - 133	
Fluoranthene-d10	149.94	88.2	58.8	36 - 134	

Data File: \\target\share\chem3\nt8.i\20221215.b\N822121512.D

Date : 15-DEC-2022 19:49

Client ID:

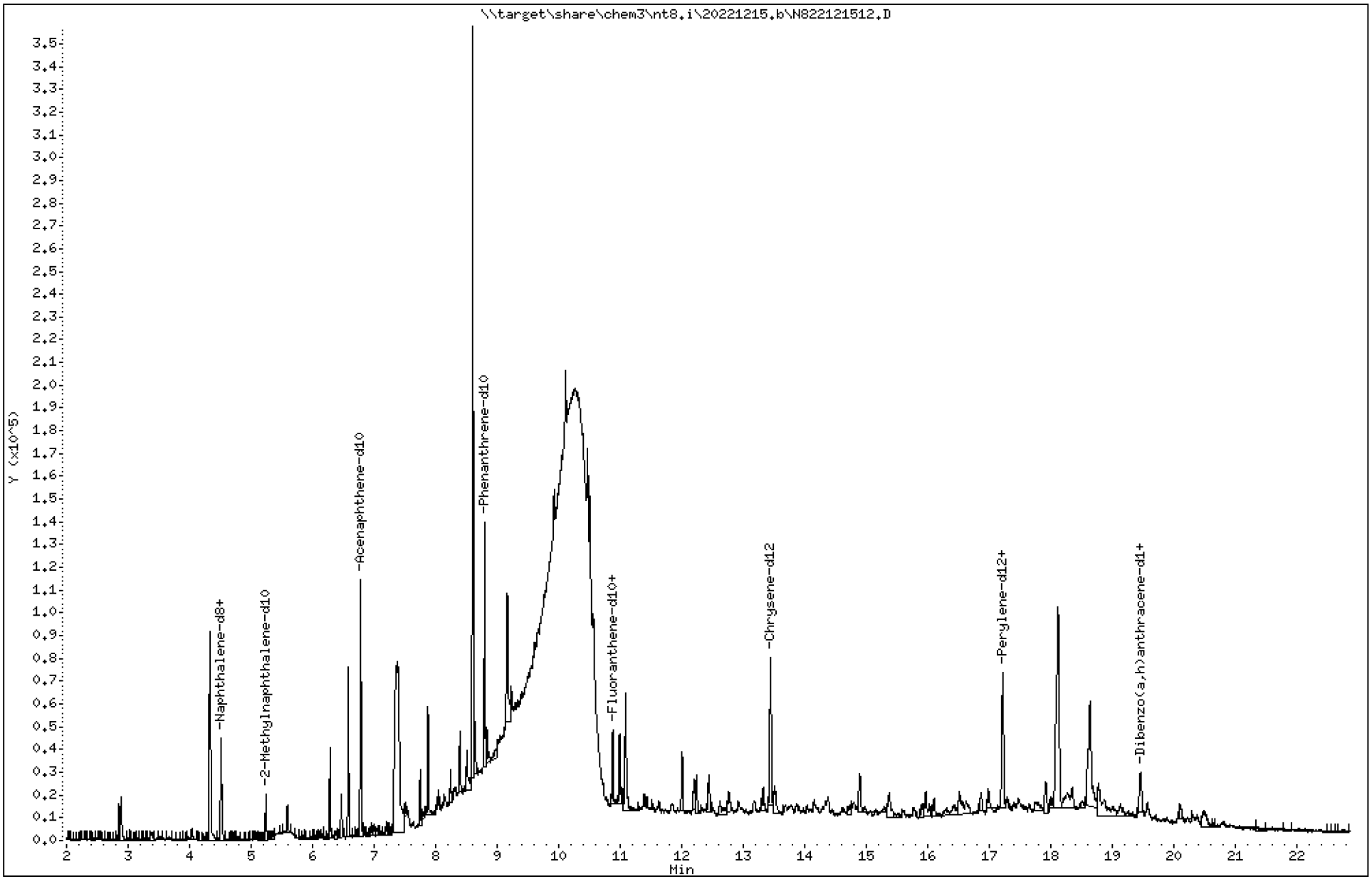
Instrument: nt8.i

Sample Info: 22L0136-13,3

Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25



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Date : 15-DEC-2022 19:49

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-13,3

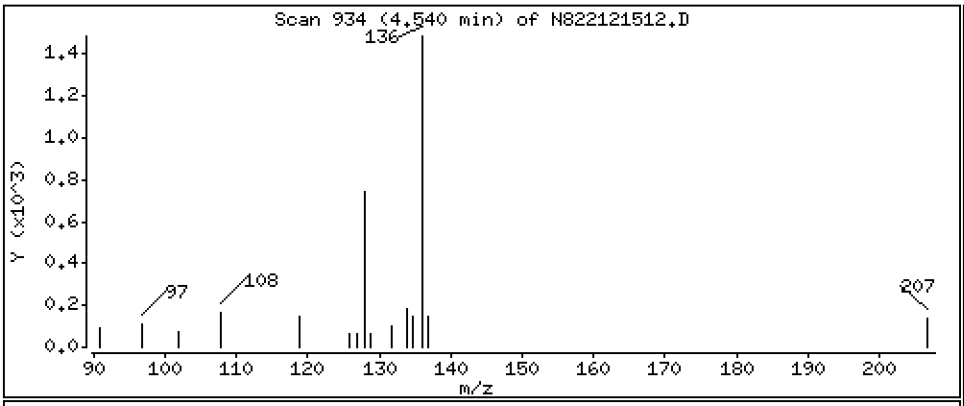
Operator: JZ

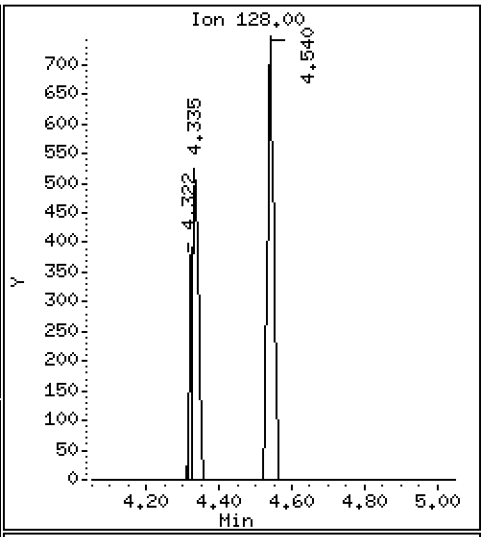
Column phase: Rxi-17sil

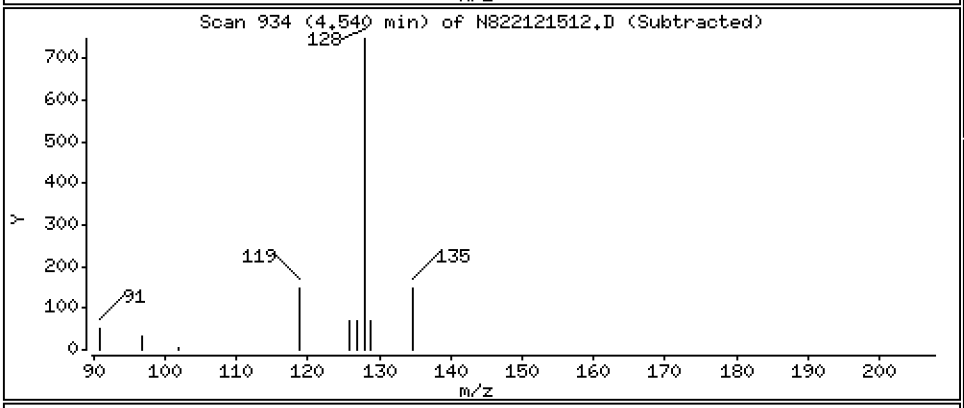
Column diameter: 0.25

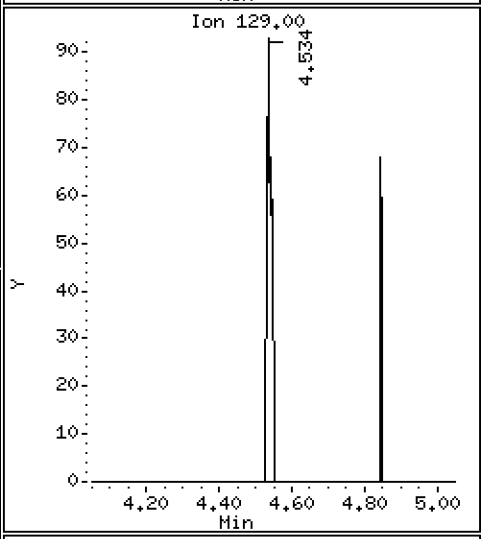
2 Naphthalene

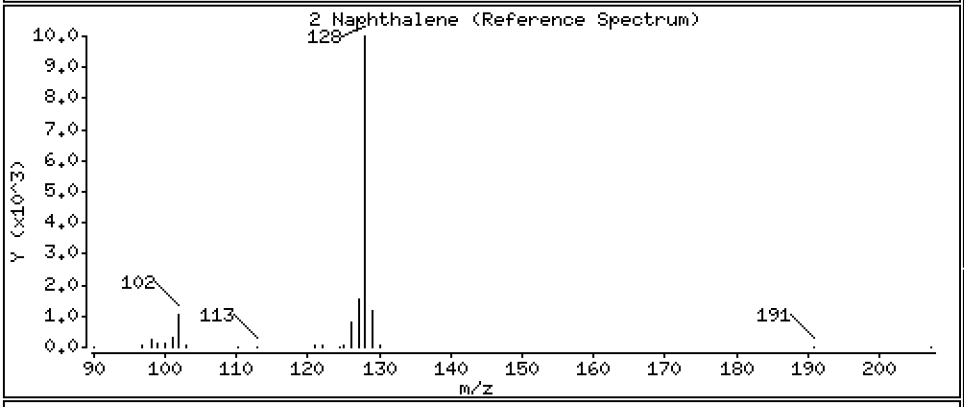
Concentration: 0.1249 ug/mL

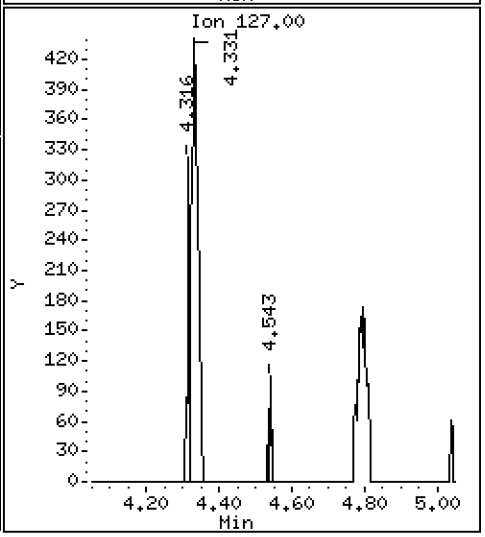


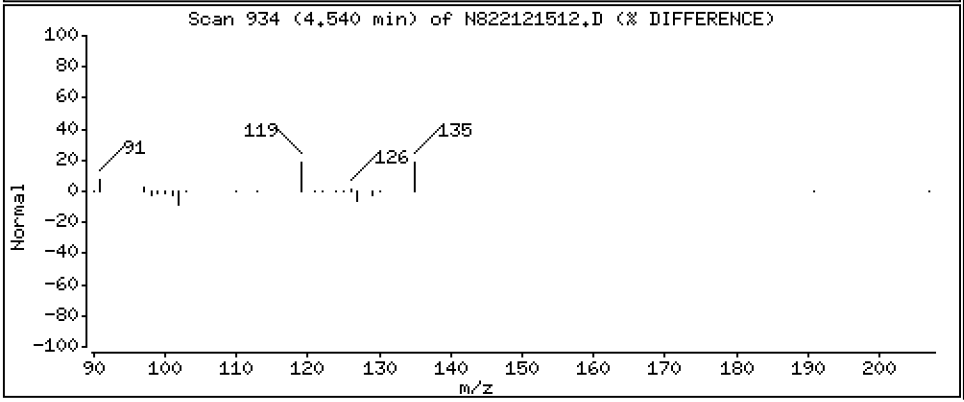












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Date : 15-DEC-2022 19:49

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-13,3

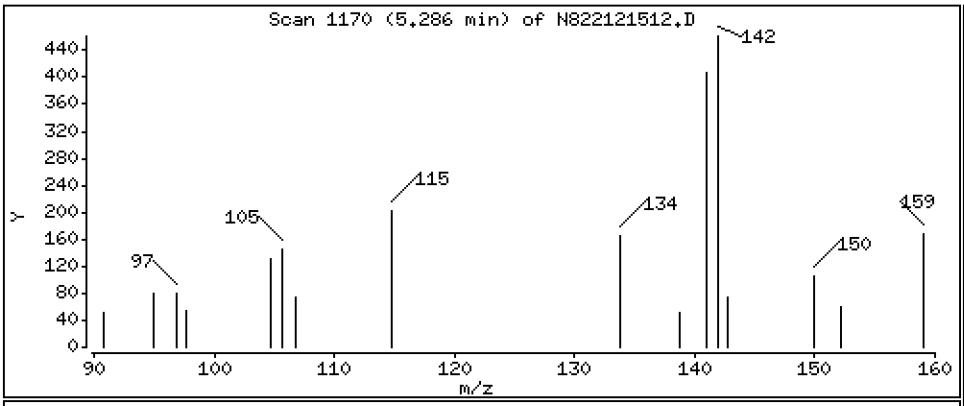
Operator: JZ

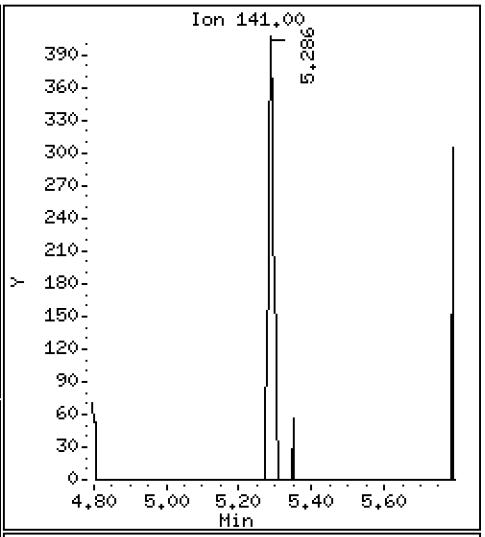
Column phase: Rxi-17sil

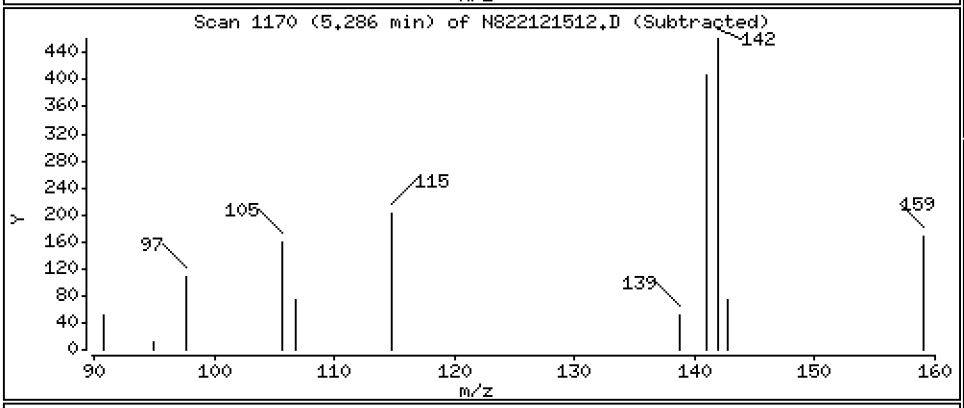
Column diameter: 0.25

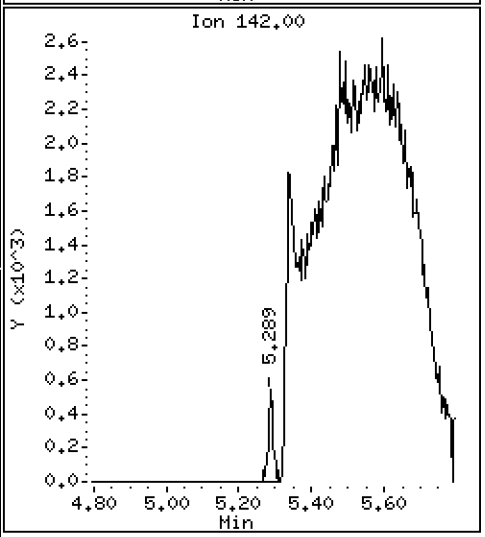
4 2-Methylnaphthalene

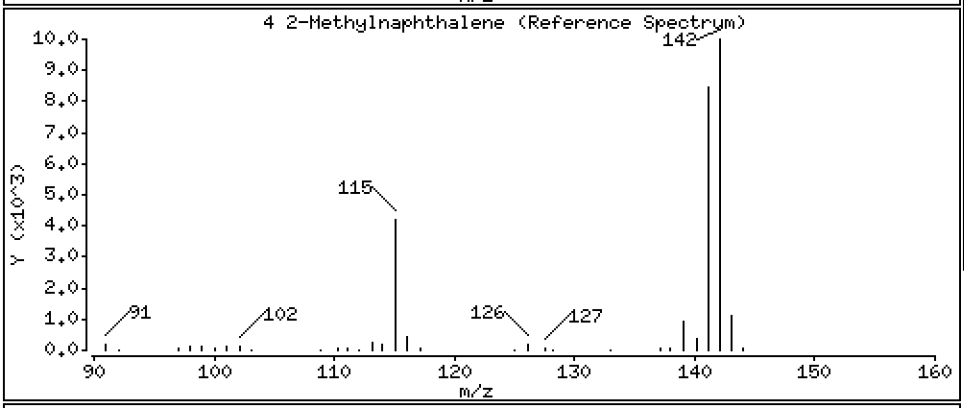
Concentration: 0.1105 ug/mL

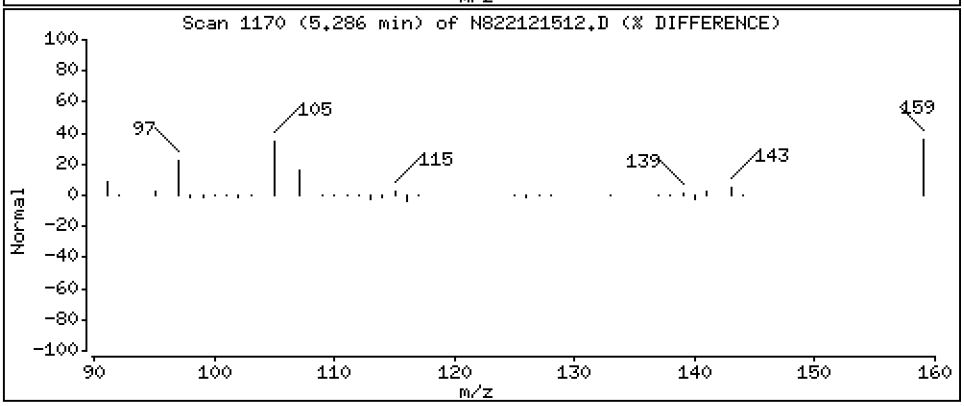












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Date : 15-DEC-2022 19:49

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-13,3

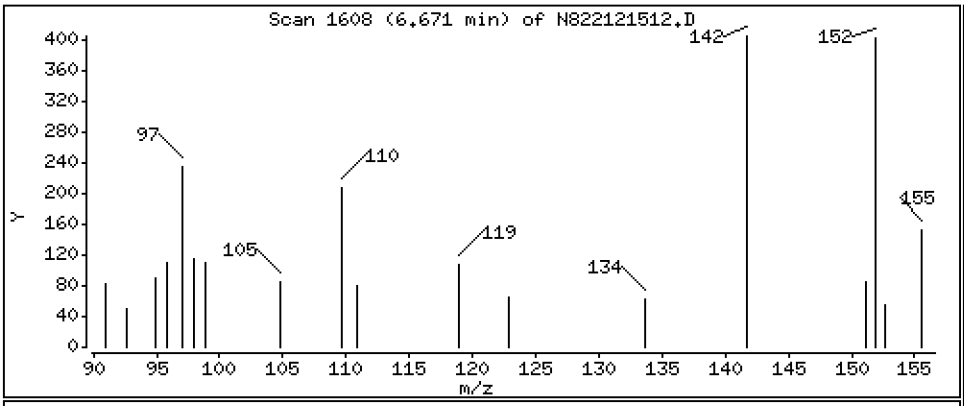
Operator: JZ

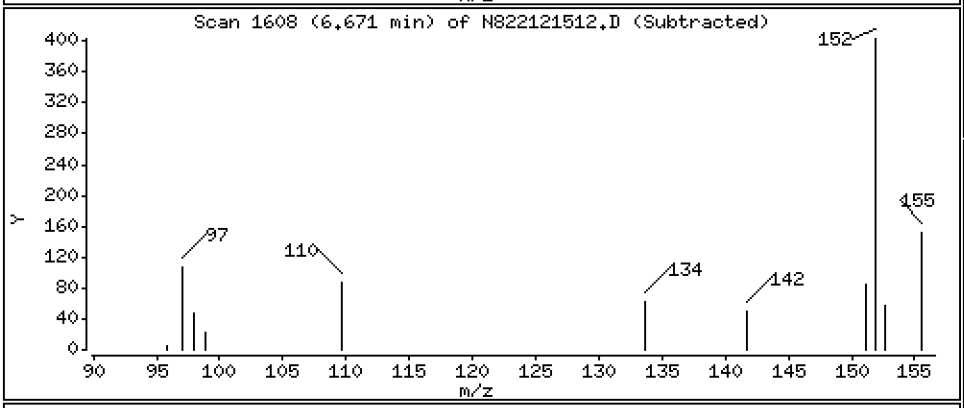
Column phase: Rxi-17sil

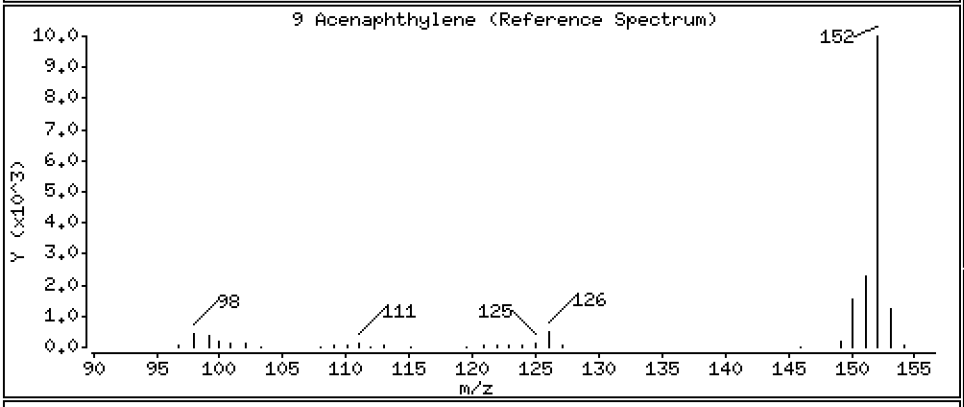
Column diameter: 0.25

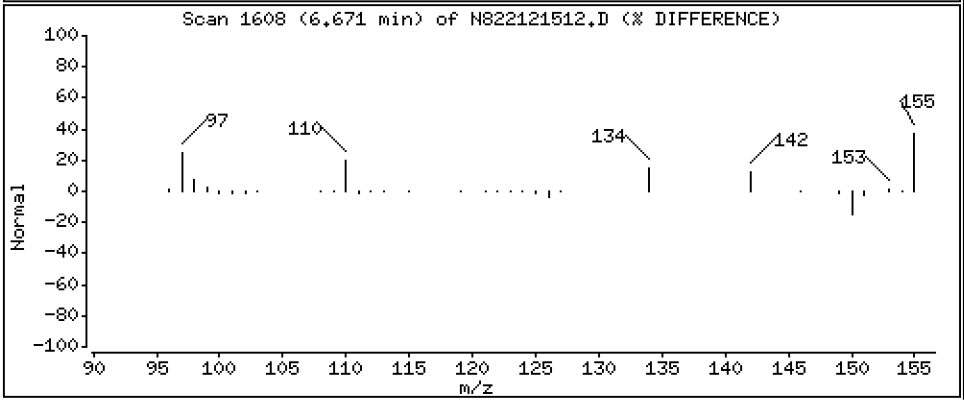
9 Acenaphthylene

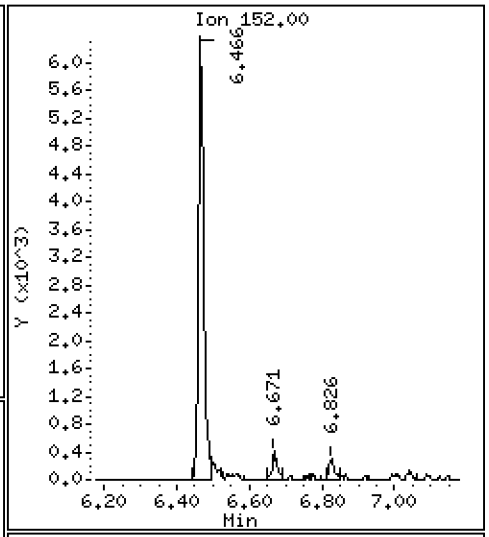
Concentration: 0.05331 ug/mL

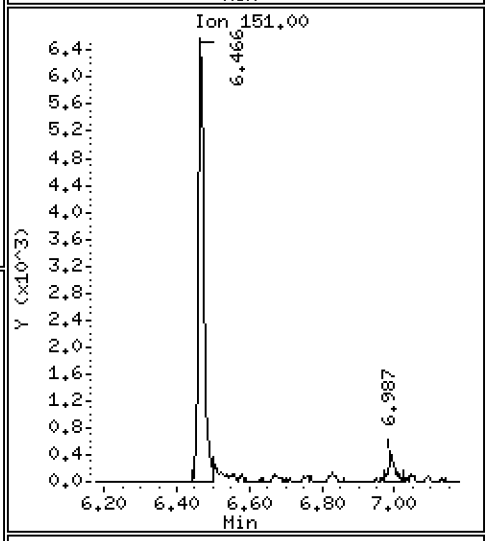


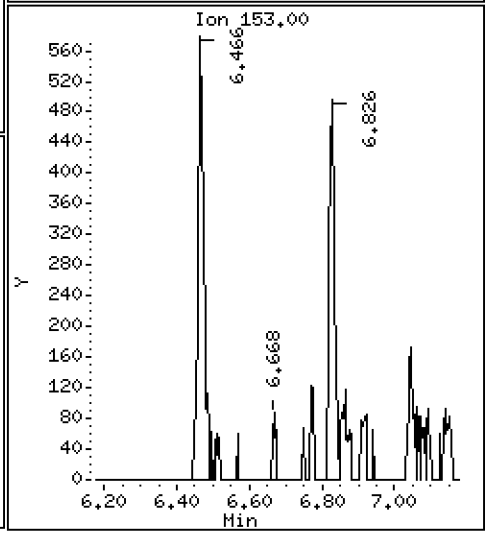












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Date : 15-DEC-2022 19:49

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-13,3

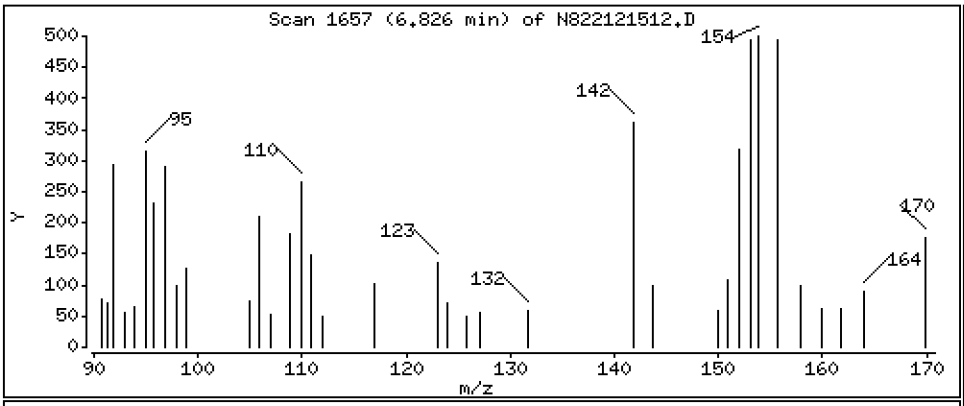
Operator: JZ

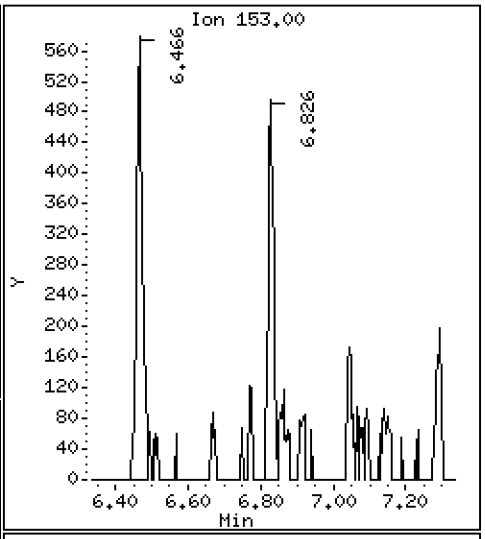
Column phase: Rxi-17sil

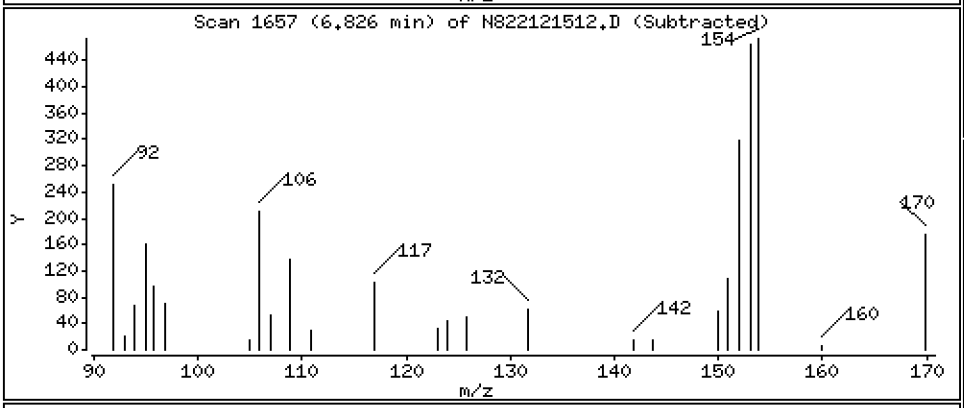
Column diameter: 0.25

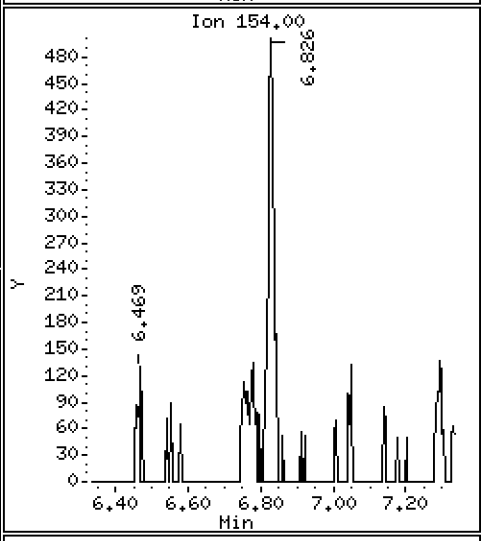
11 Acenaphthene

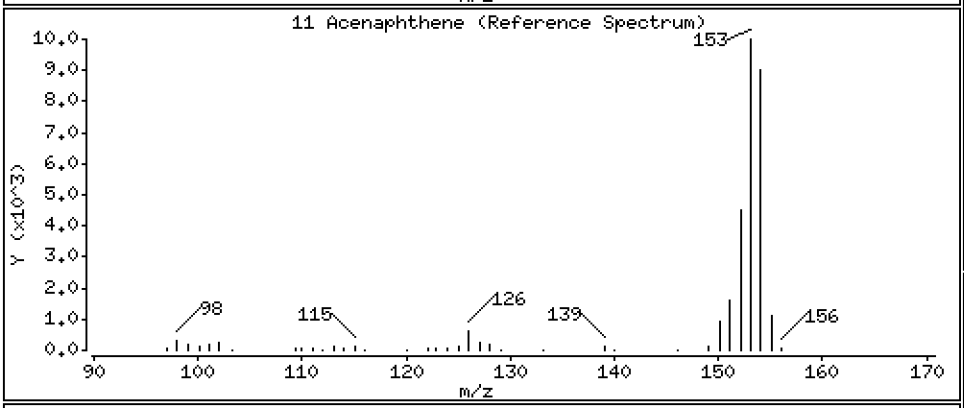
Concentration: 0.1017 ug/mL

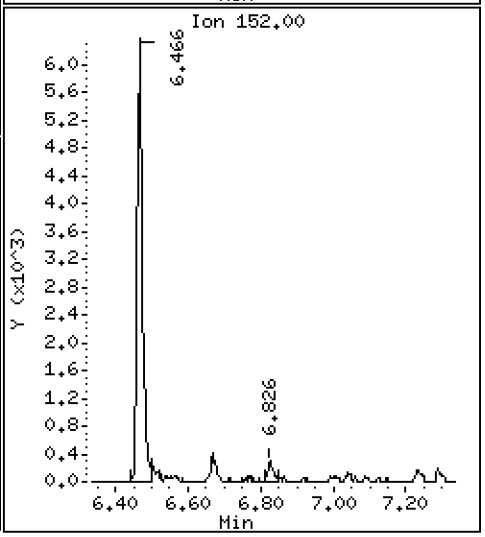


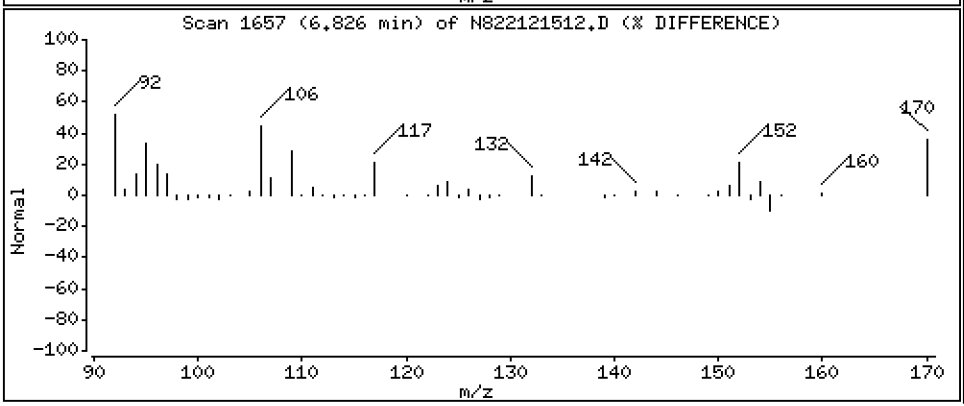












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Date : 15-DEC-2022 19:49

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-13,3

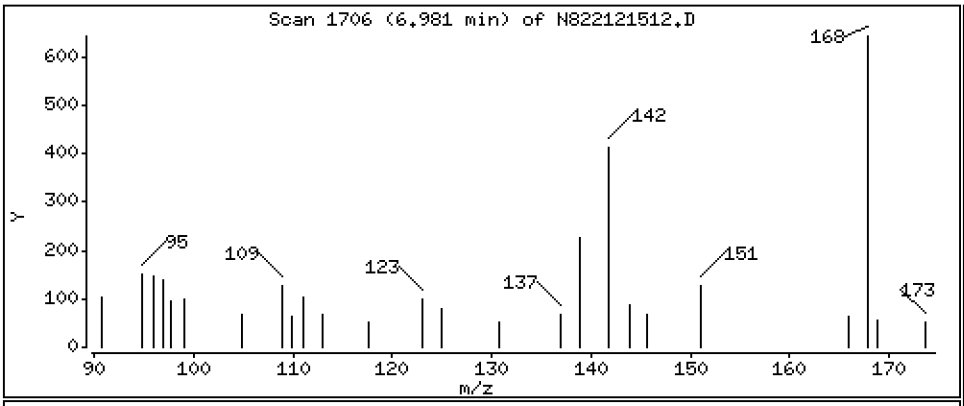
Operator: JZ

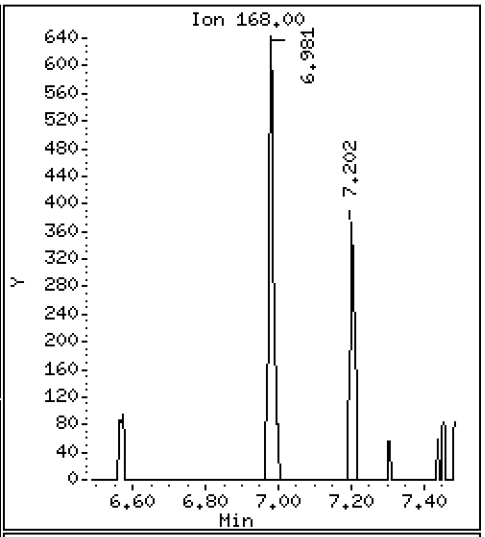
Column phase: Rxi-17sil

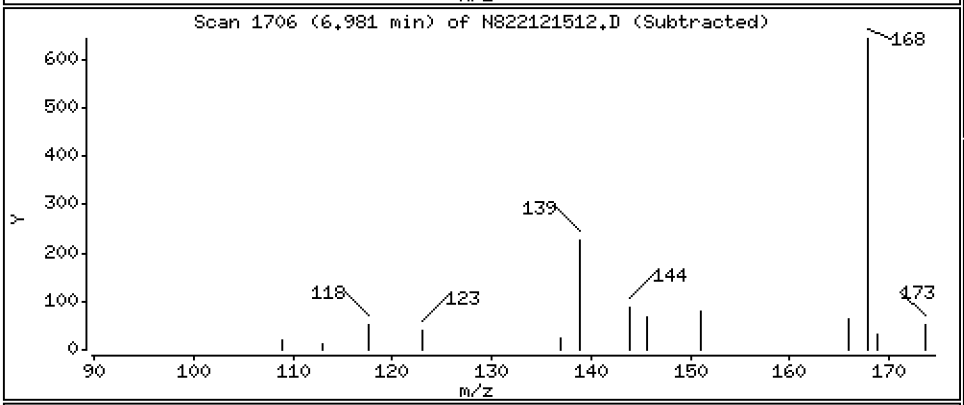
Column diameter: 0.25

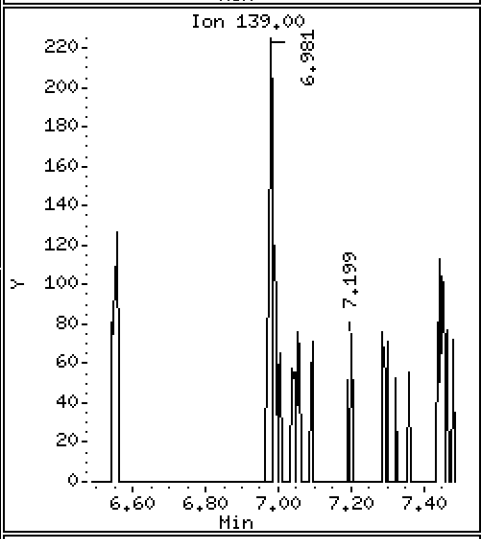
12 Dibenzofuran

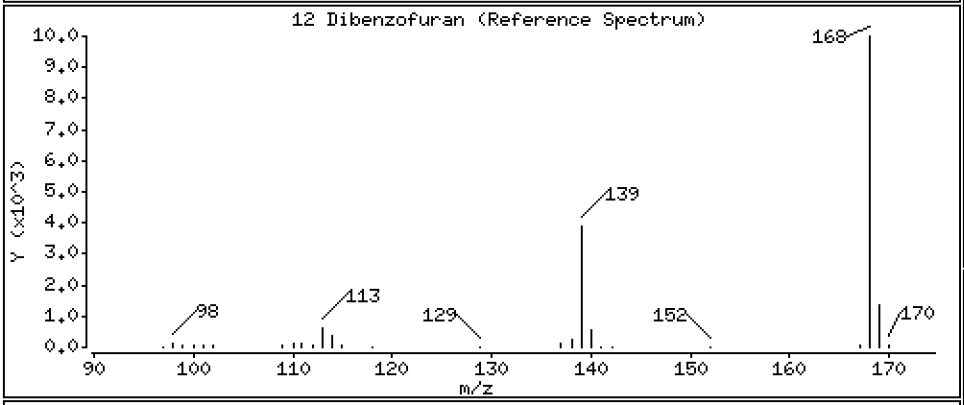
Concentration: 0.09186 ug/mL

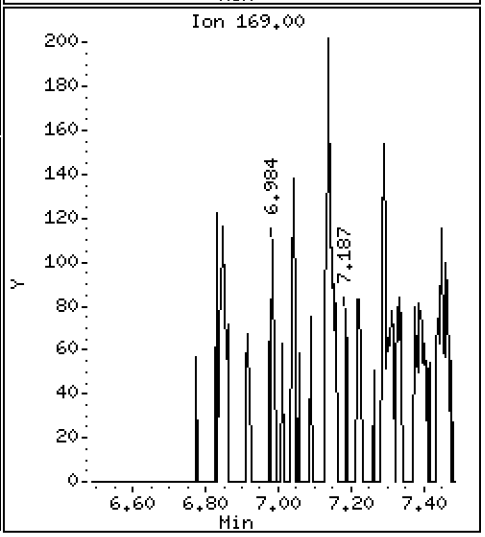


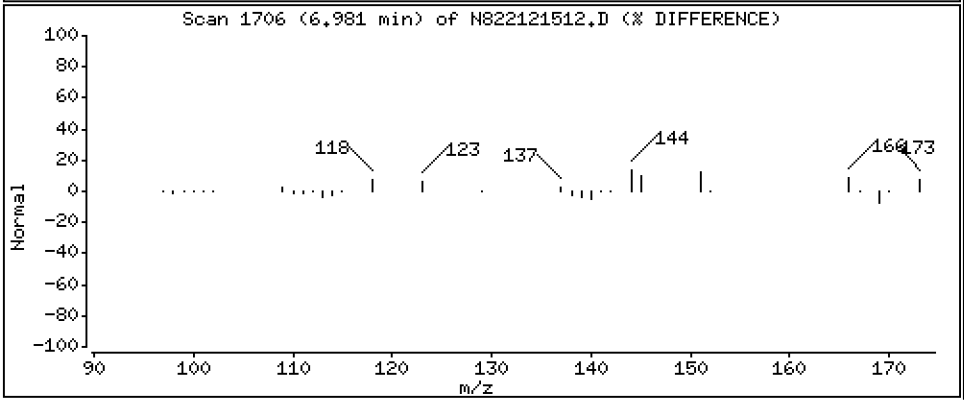












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Date : 15-DEC-2022 19:49

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-13,3

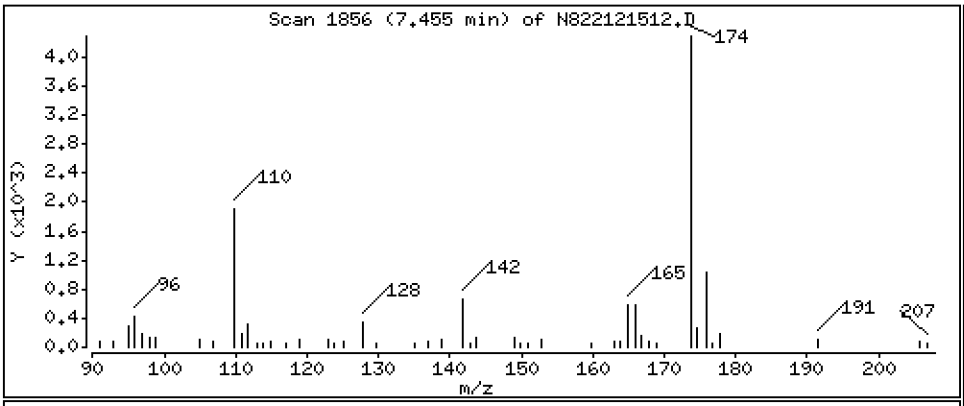
Operator: JZ

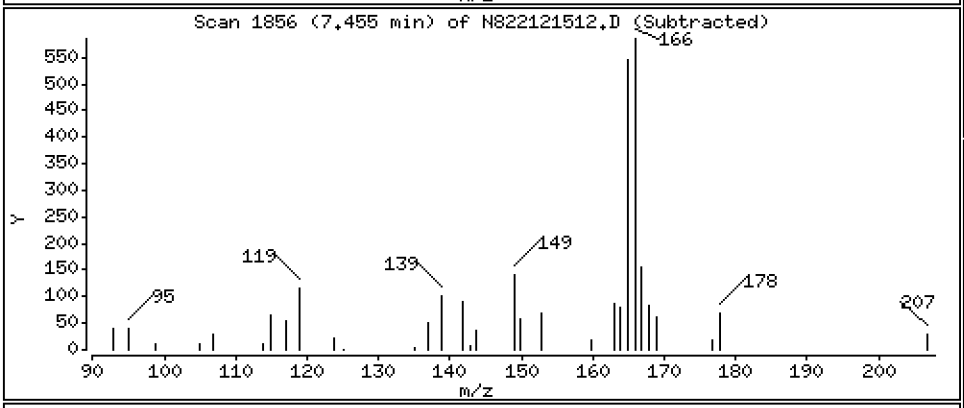
Column phase: Rxi-17sil

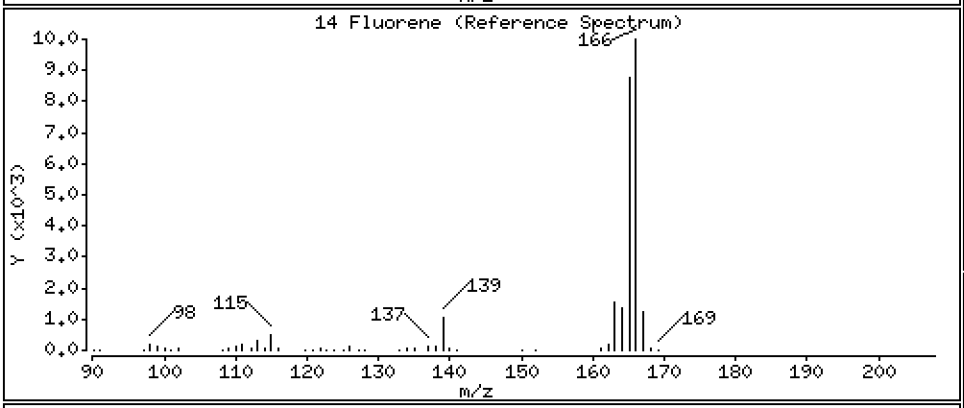
Column diameter: 0.25

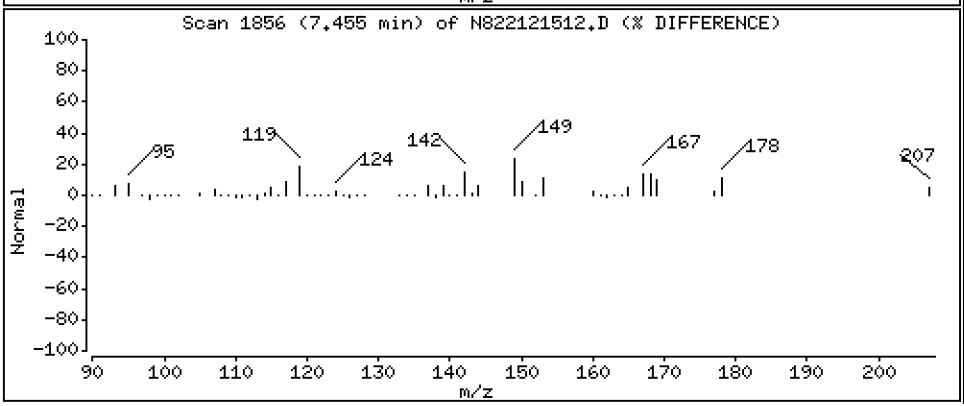
14 Fluorene

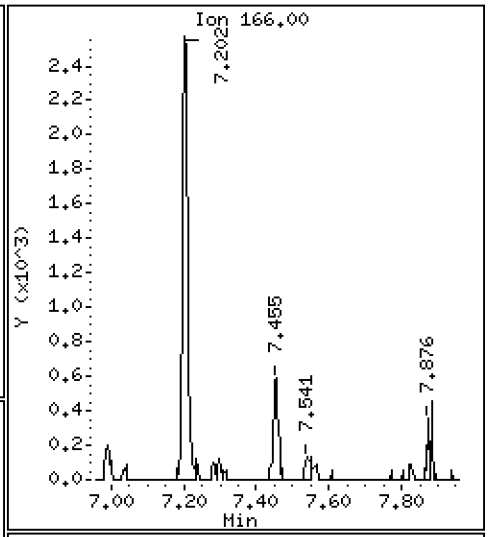
Concentration: 0.1006 ug/mL

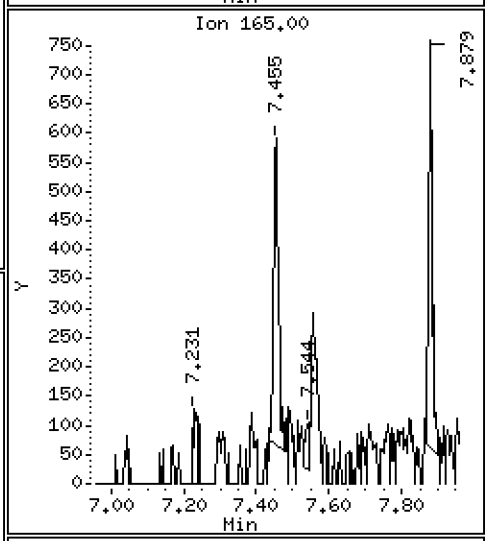


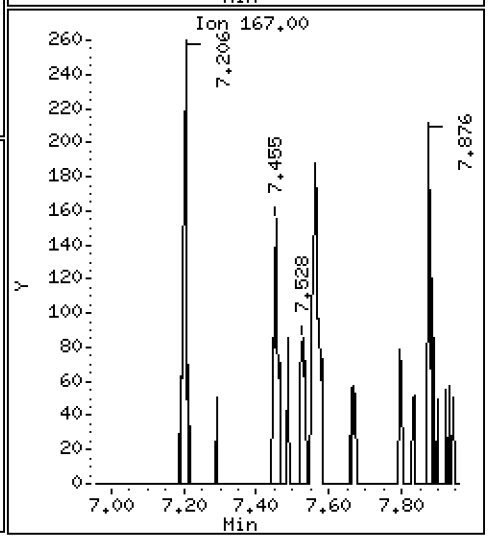












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121512.D

Date : 15-DEC-2022 19:49

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-13,3

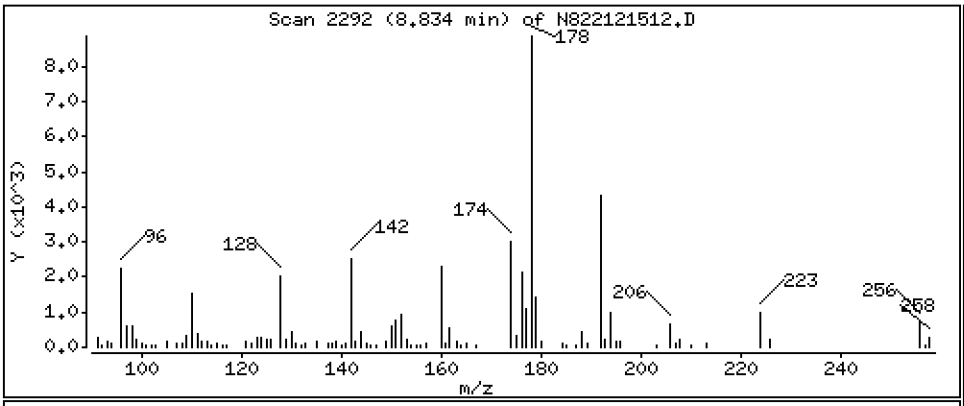
Operator: JZ

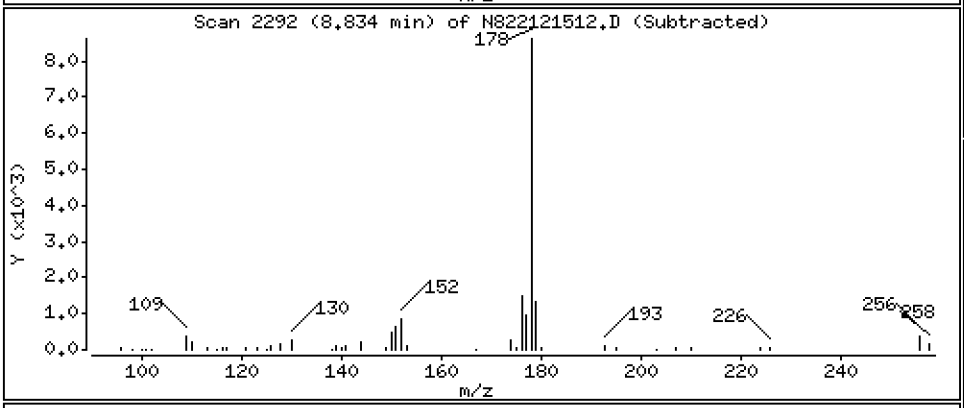
Column phase: Rxi-17sil

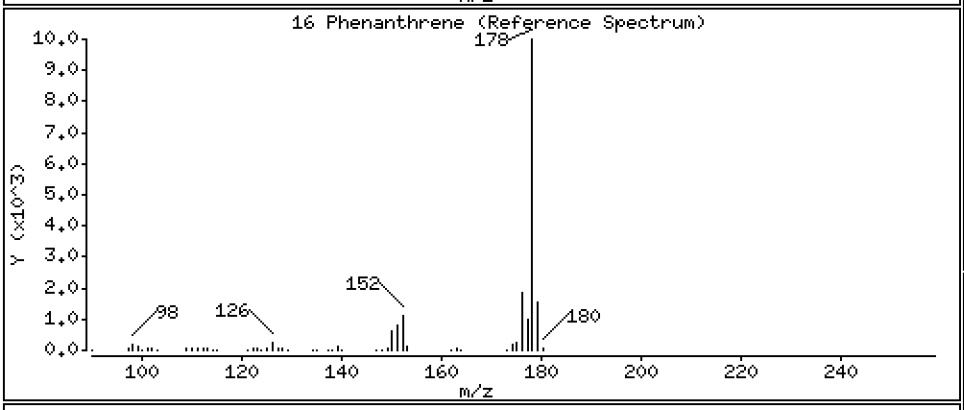
Column diameter: 0.25

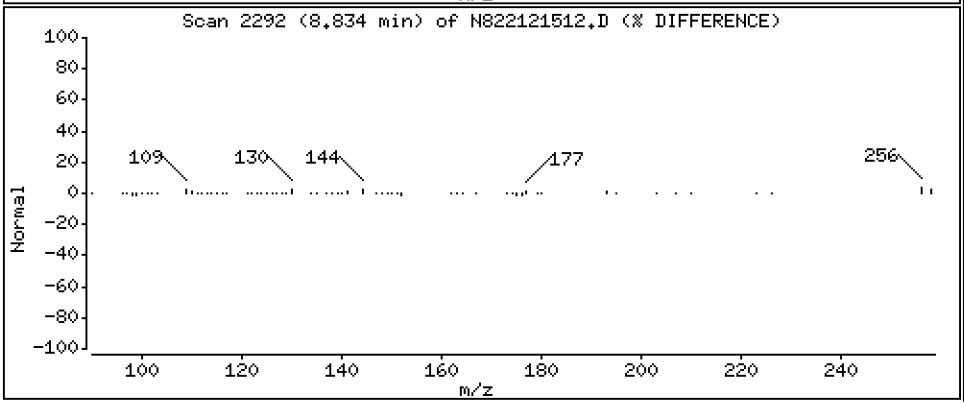
16 Phenanthrene

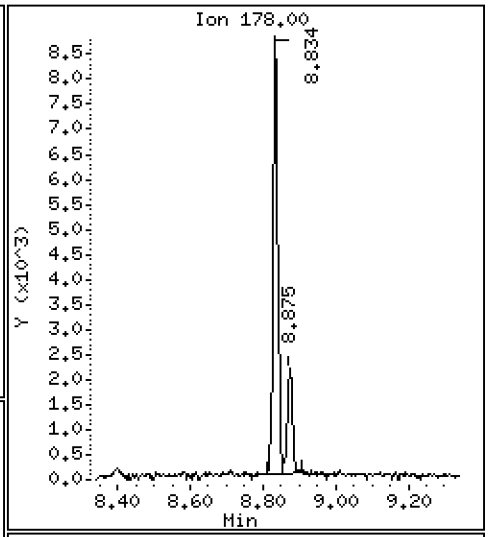
Concentration: 0.9188 ug/mL

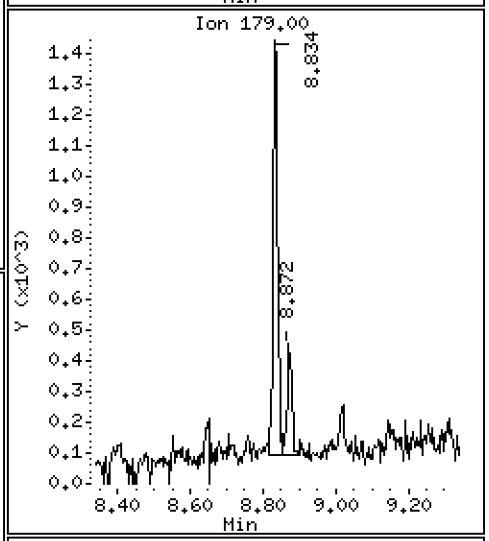


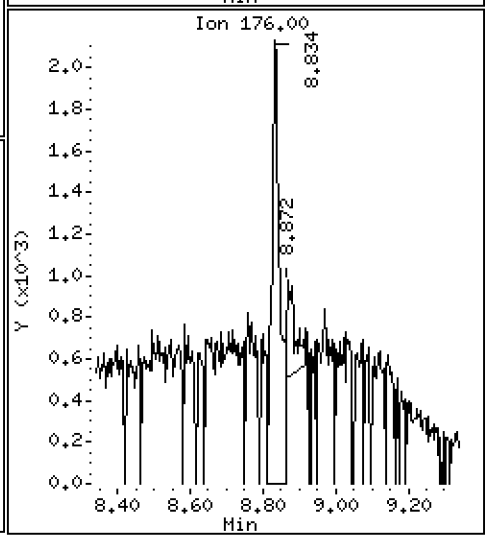












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121512.D

Date : 15-DEC-2022 19:49

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-13,3

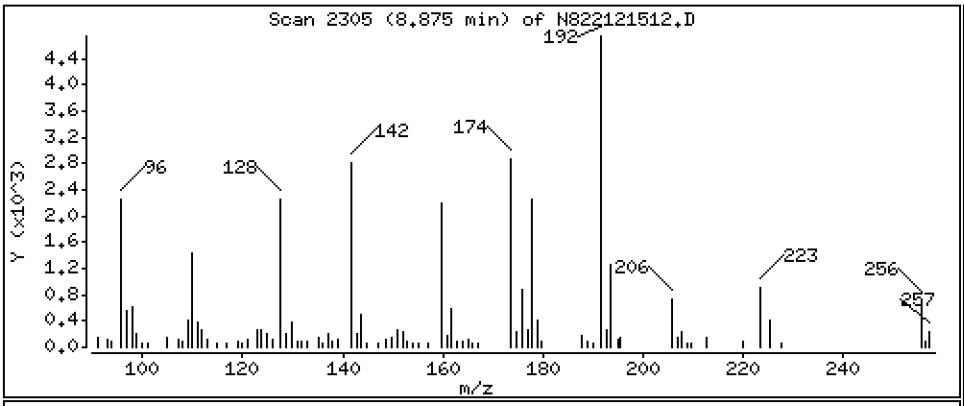
Operator: JZ

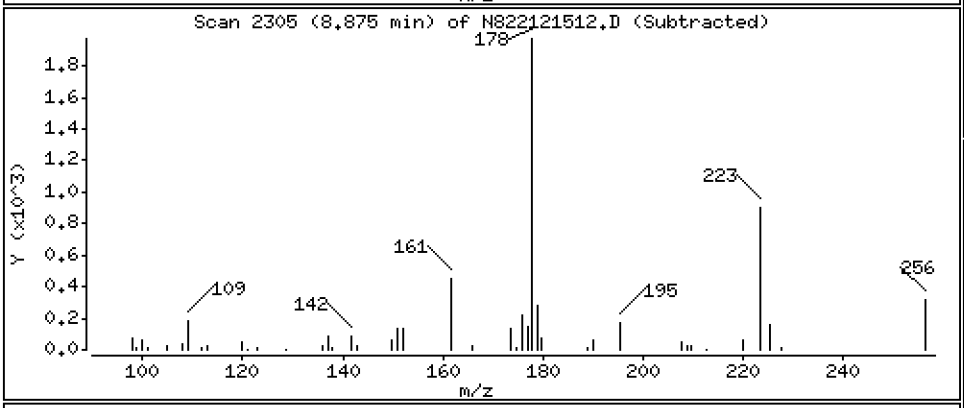
Column phase: Rxi-17sil

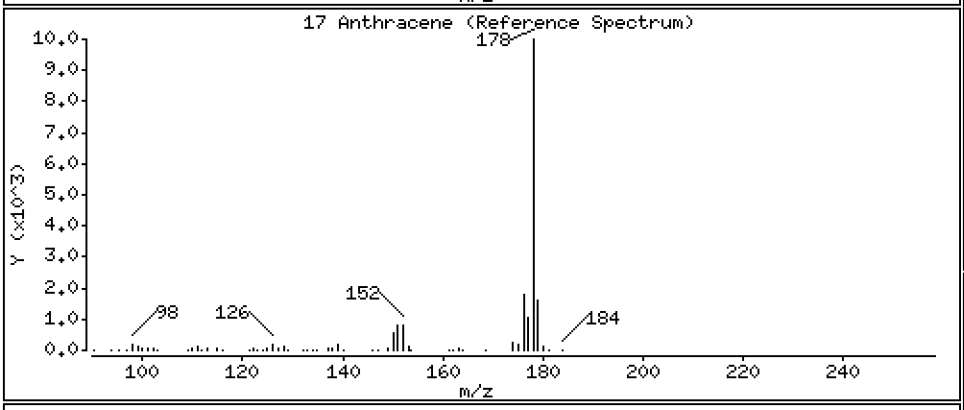
Column diameter: 0.25

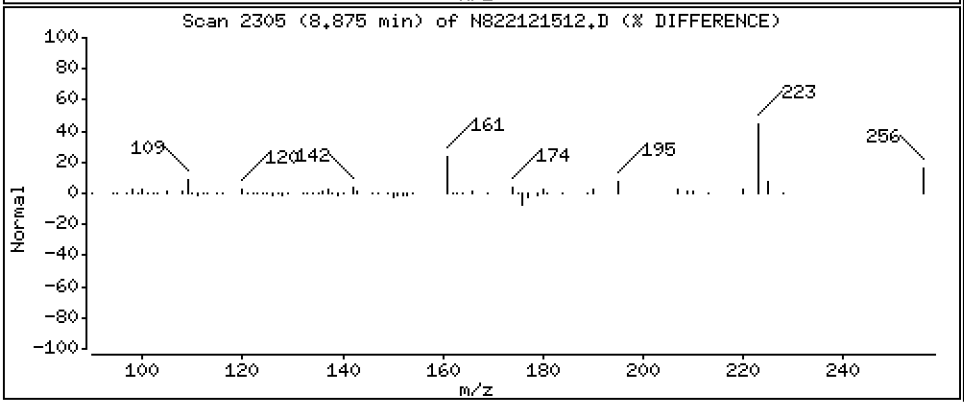
17 Anthracene

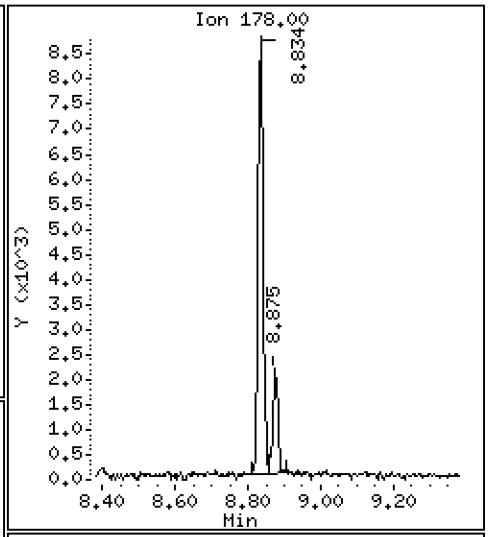
Concentration: 0.2327 ug/mL

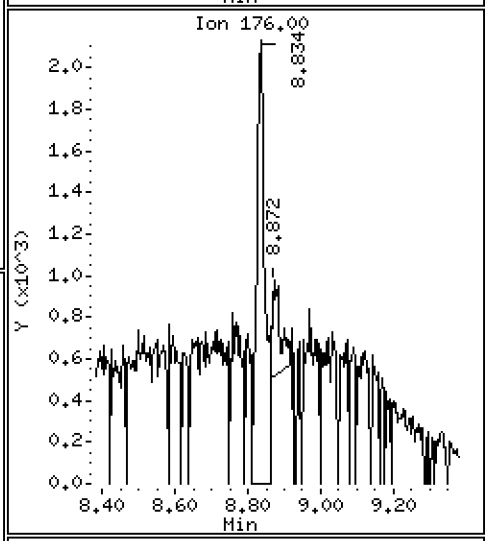


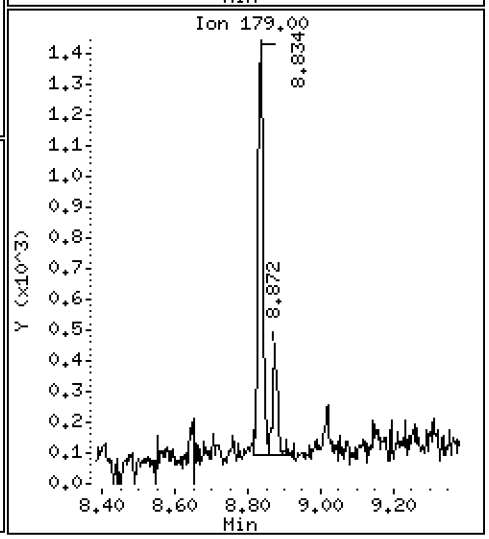












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121512.D

Date : 15-DEC-2022 19:49

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-13,3

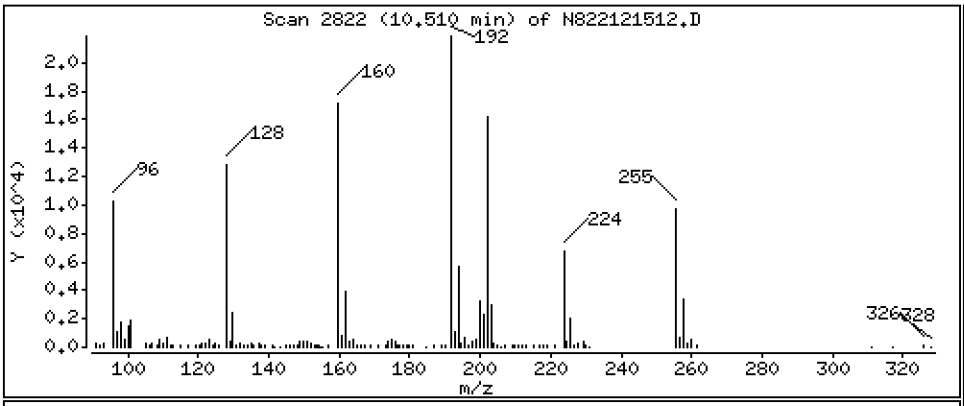
Operator: JZ

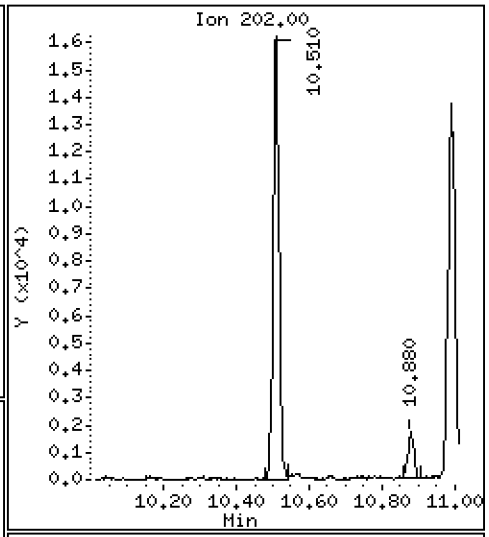
Column phase: Rxi-17sil

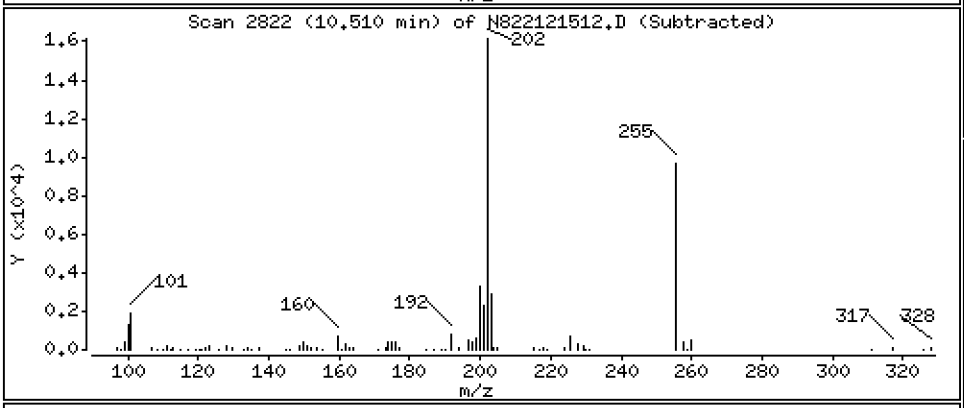
Column diameter: 0.25

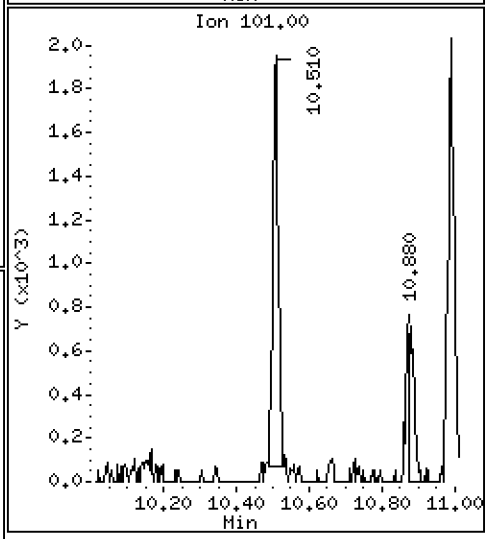
22 Fluoranthene

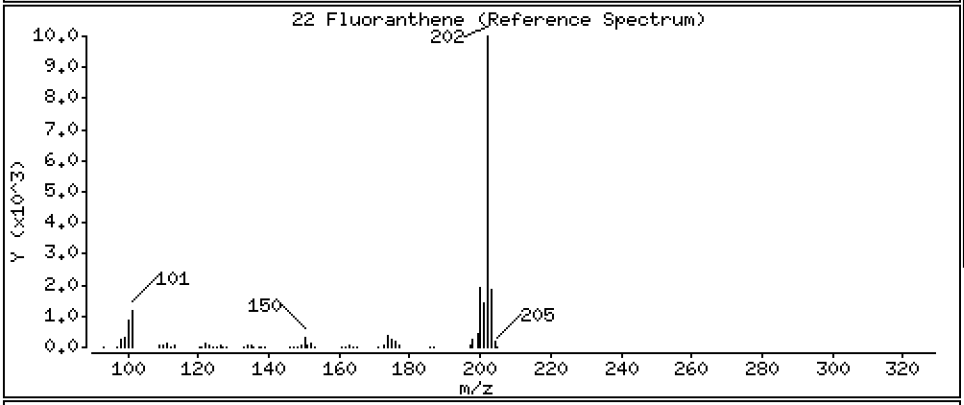
Concentration: 1.902 ug/mL

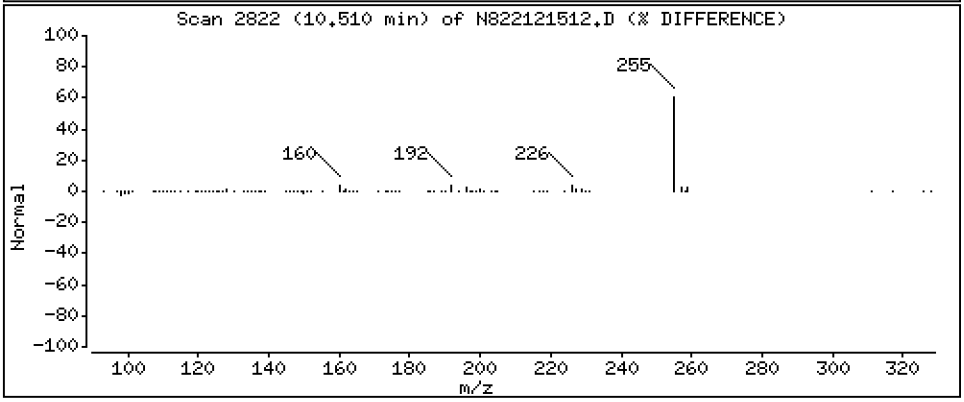












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121512.D

Date : 15-DEC-2022 19:49

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-13,3

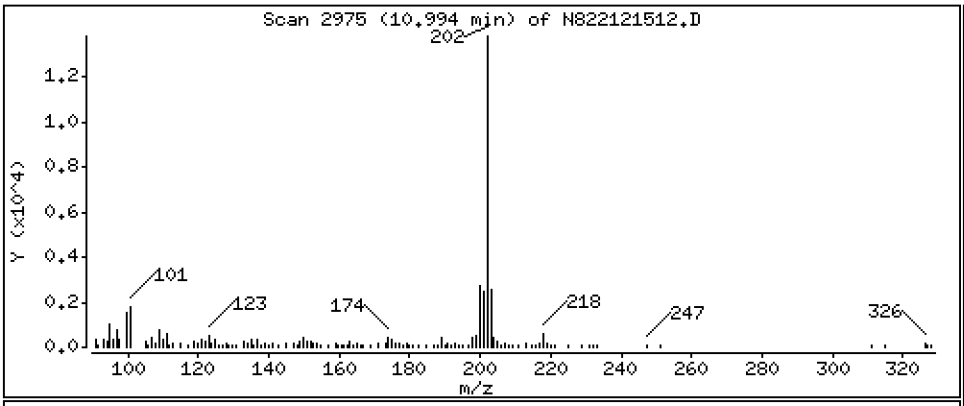
Operator: JZ

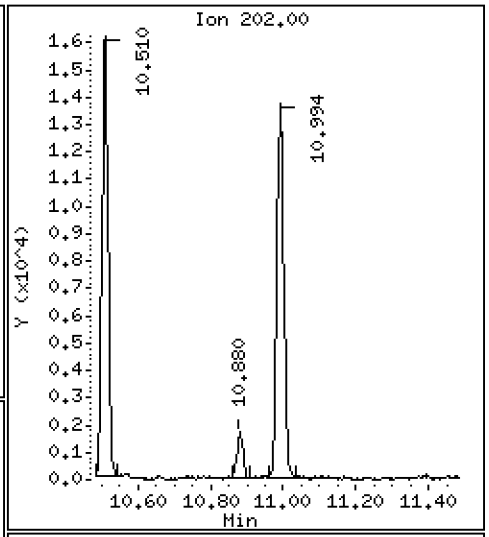
Column phase: Rxi-17sil

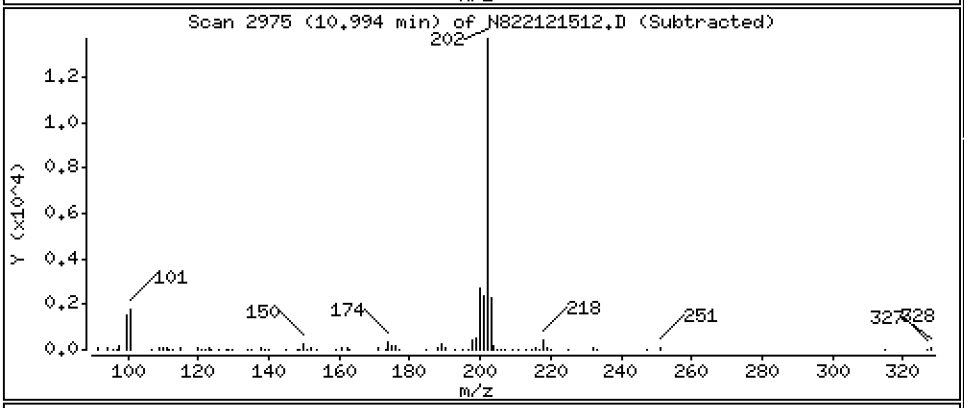
Column diameter: 0.25

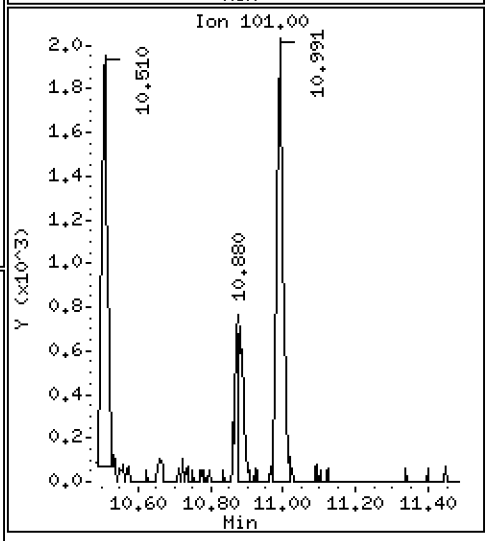
23 Pyrene

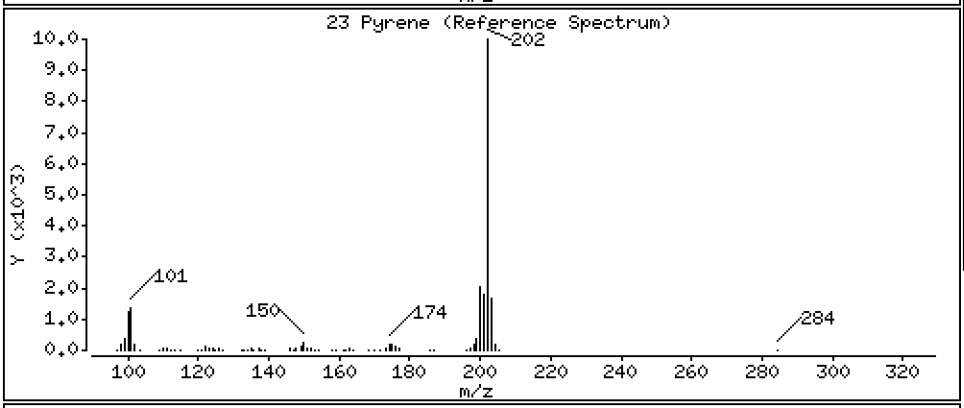
Concentration: 1.804 ug/mL

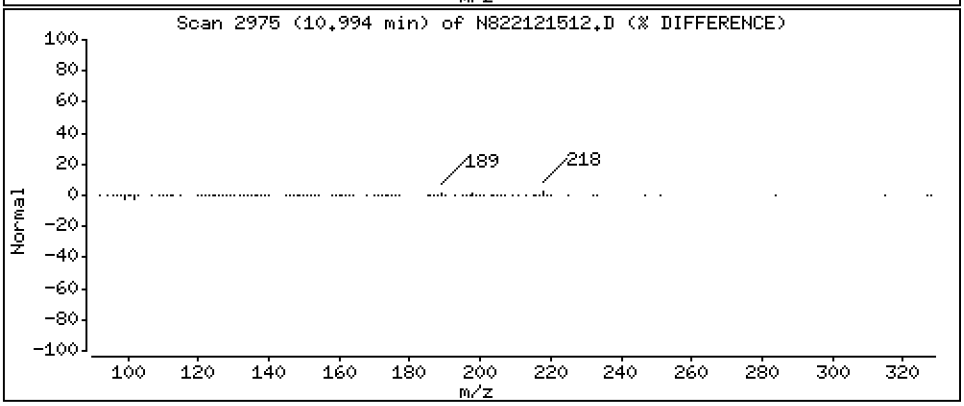












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121512.D

Date : 15-DEC-2022 19:49

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-13,3

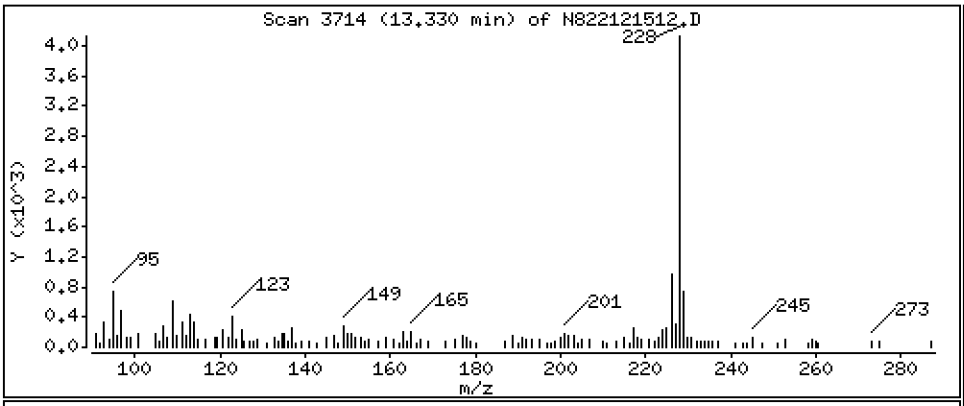
Operator: JZ

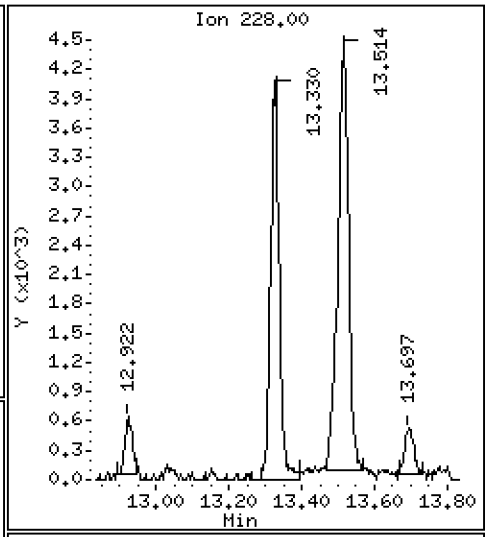
Column phase: Rxi-17sil

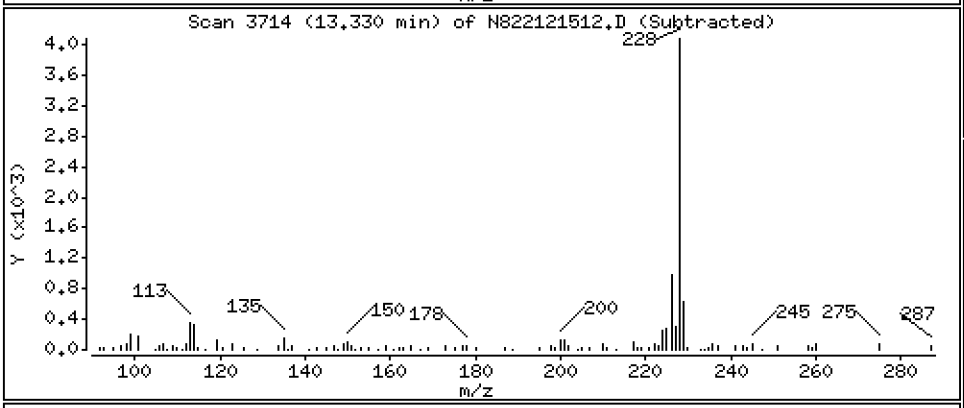
Column diameter: 0.25

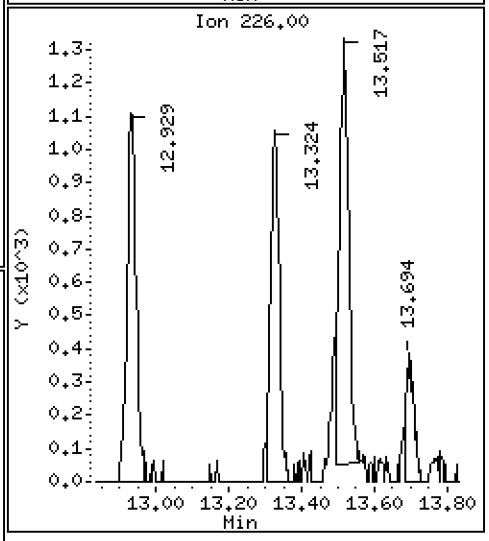
24 Benzo(a)anthracene

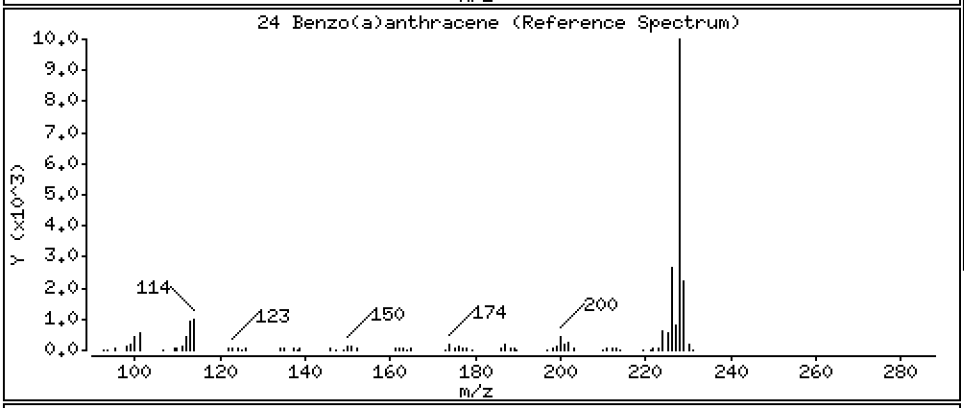
Concentration: 0.7400 ug/mL

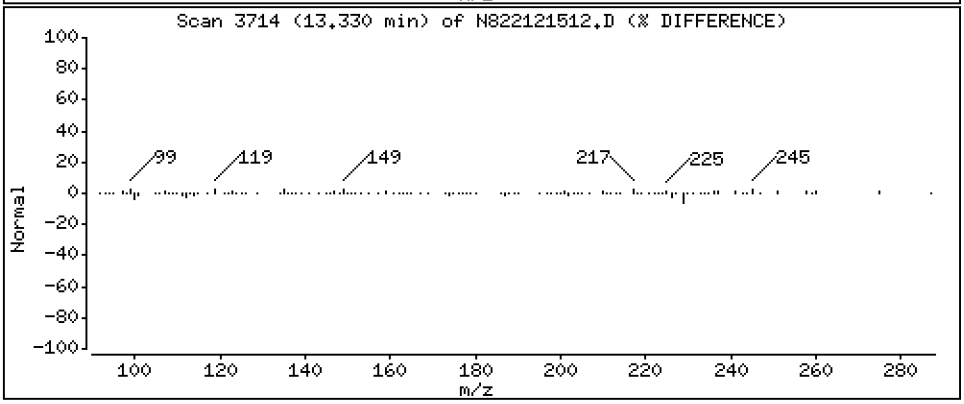












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121512.D

Date : 15-DEC-2022 19:49

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-13,3

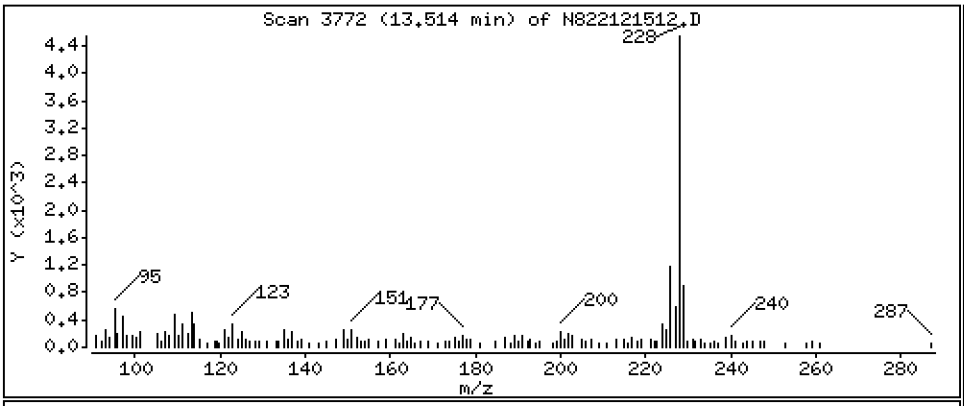
Operator: JZ

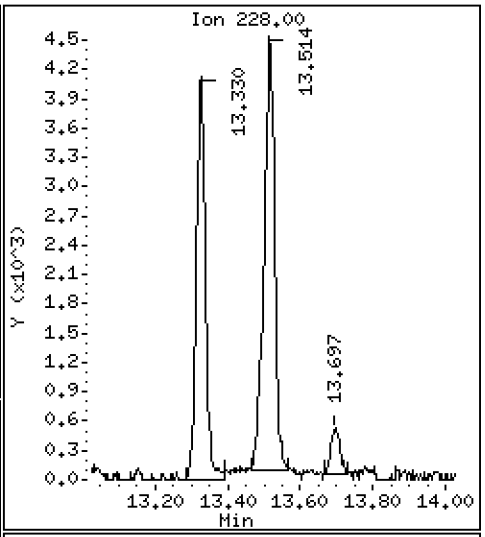
Column phase: Rxi-17sil

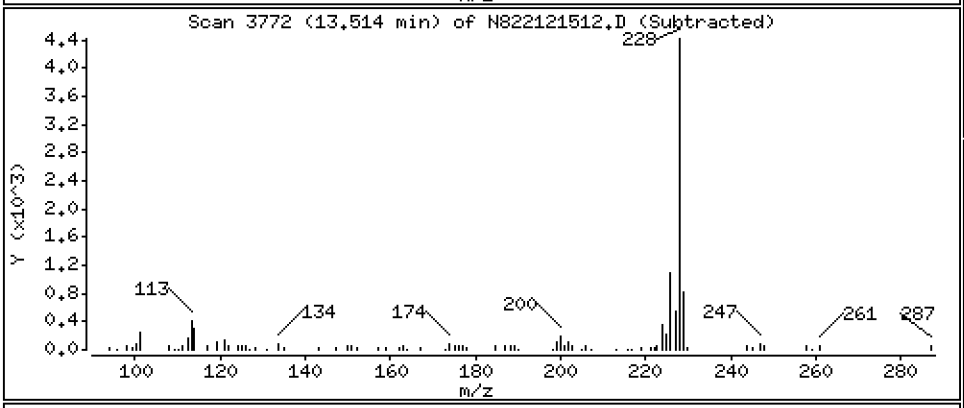
Column diameter: 0.25

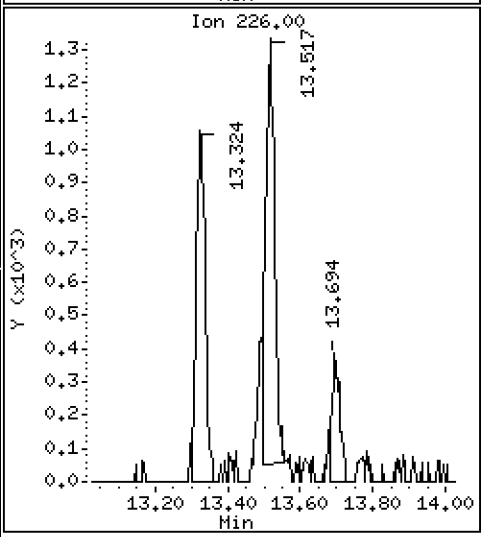
27 Chrysene

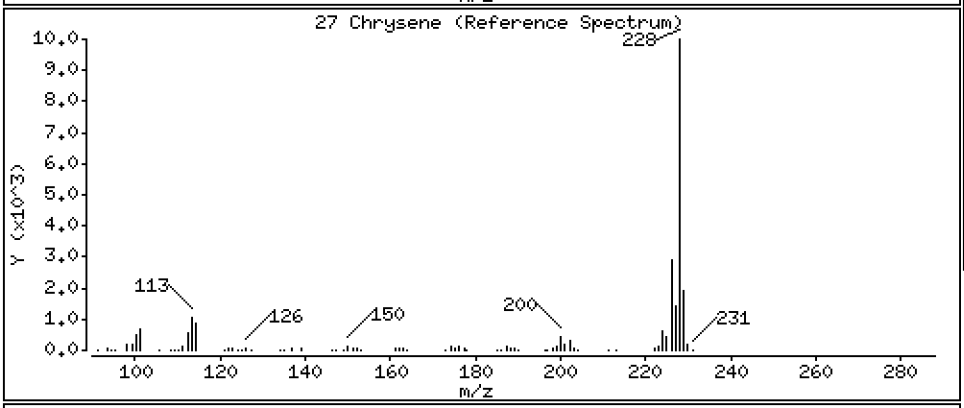
Concentration: 0.9761 ug/mL

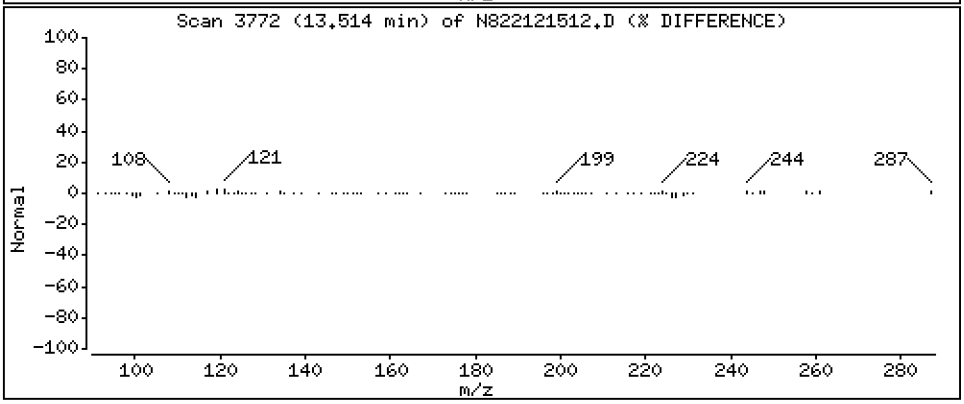












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121512.D

Date : 15-DEC-2022 19:49

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-13,3

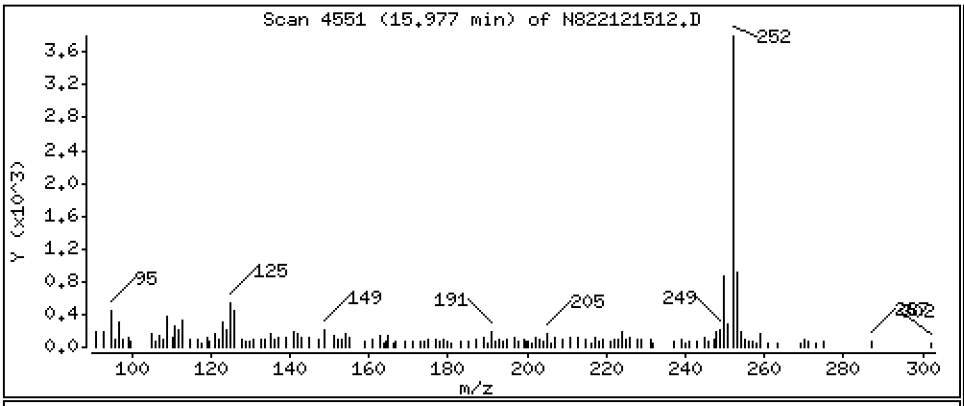
Operator: JZ

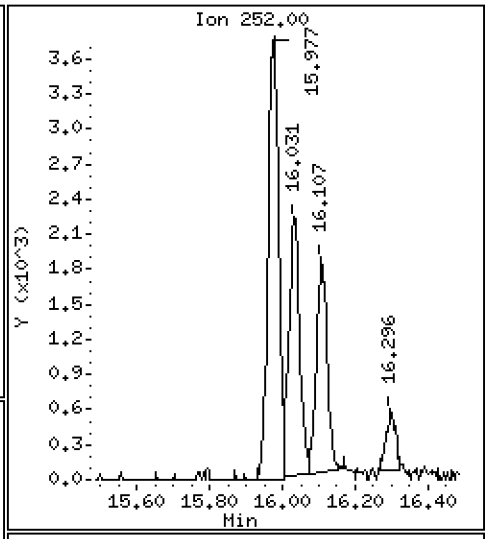
Column phase: Rxi-17sil

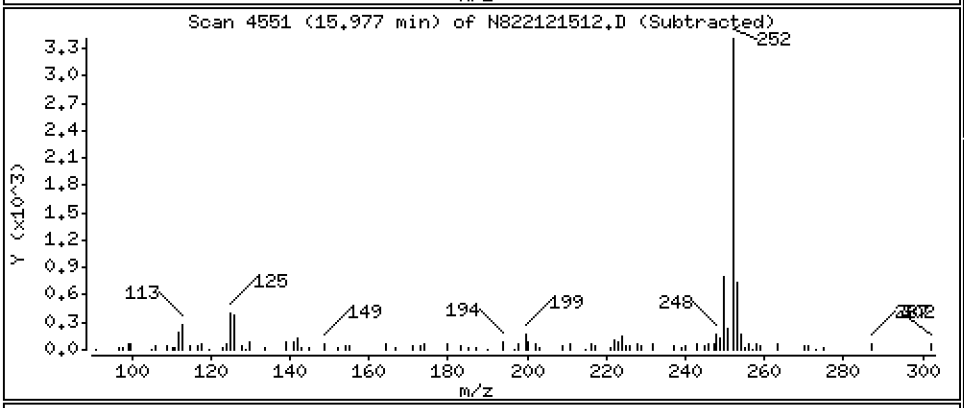
Column diameter: 0.25

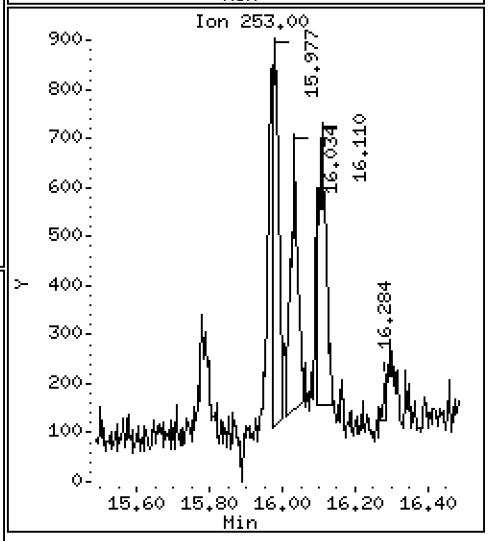
28 Benzo(b)fluoranthene

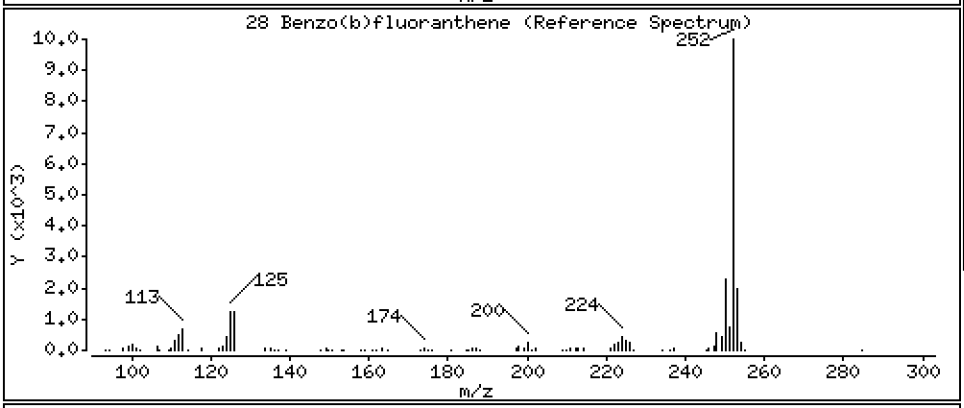
Concentration: 0.6811 ug/mL

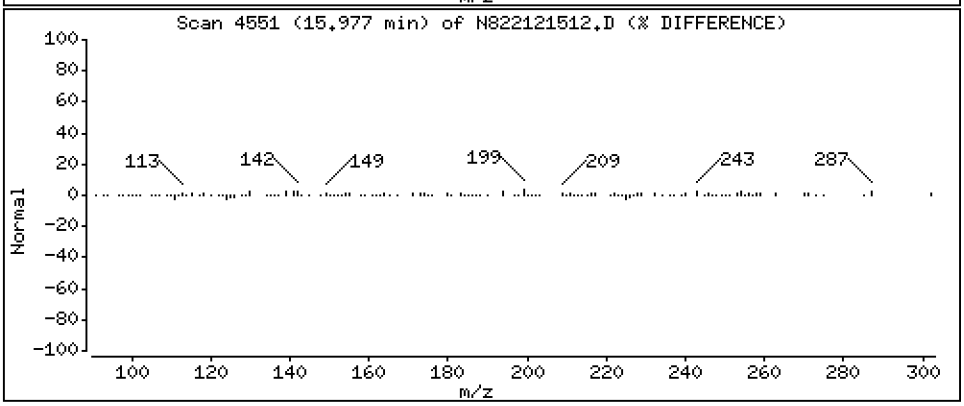












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121512.D

Date : 15-DEC-2022 19:49

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-13,3

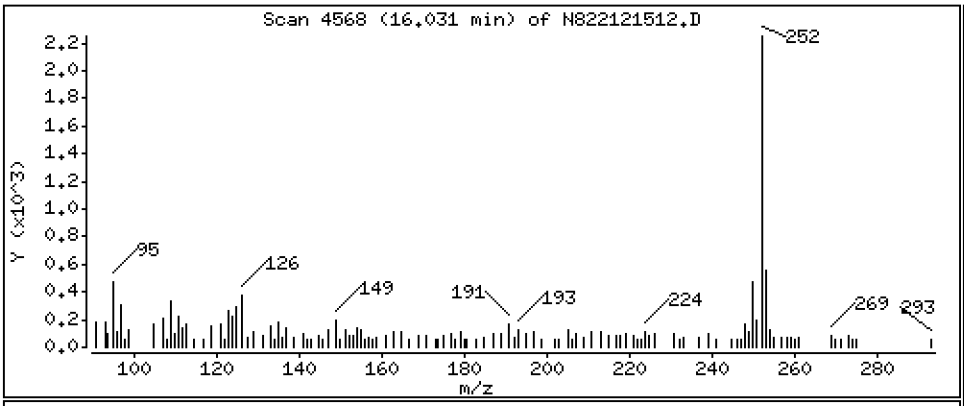
Operator: JZ

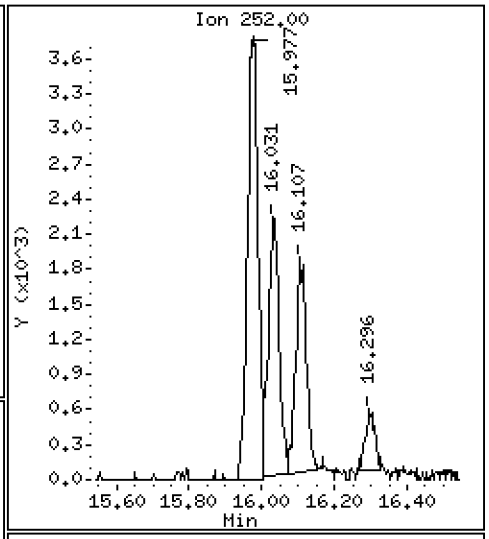
Column phase: Rxi-17sil

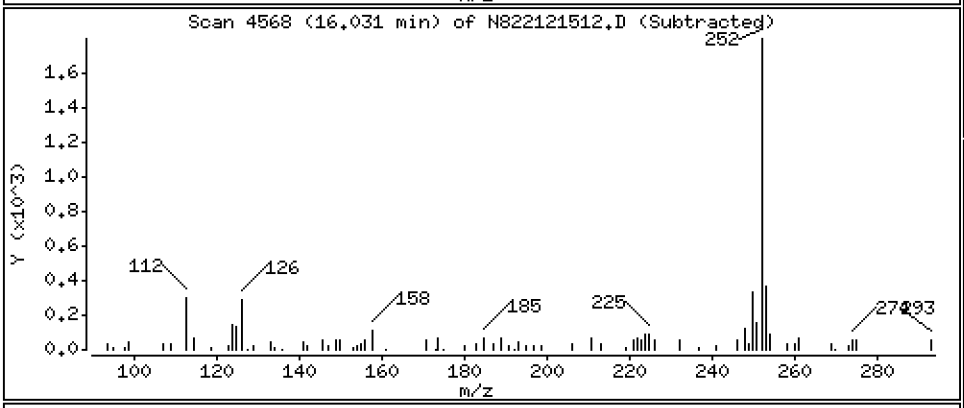
Column diameter: 0.25

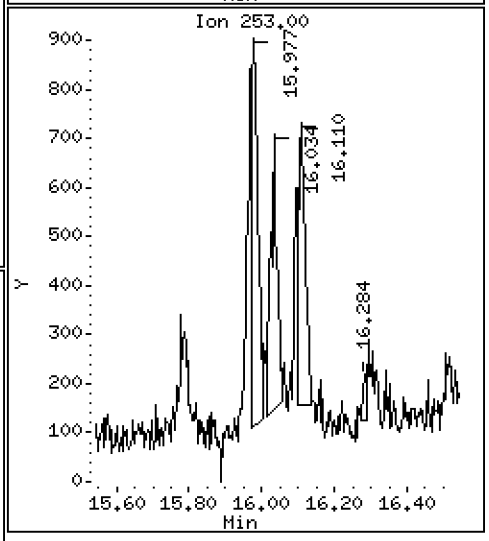
29 Benzo(k)fluoranthene

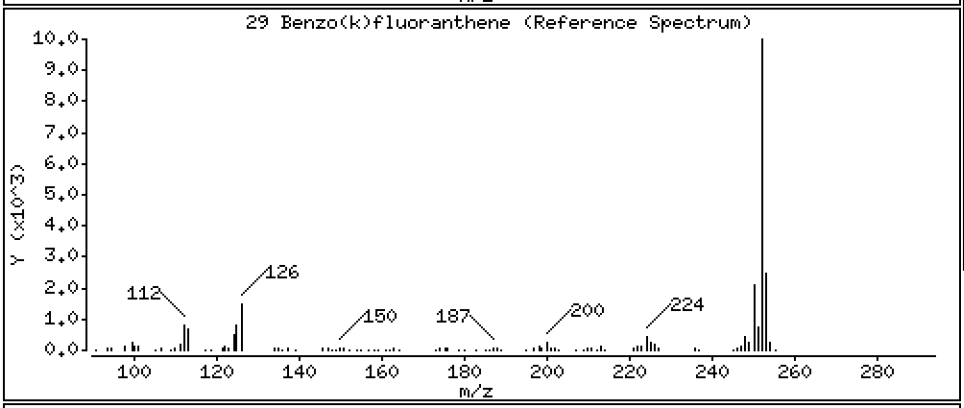
Concentration: 0.4277 ug/mL

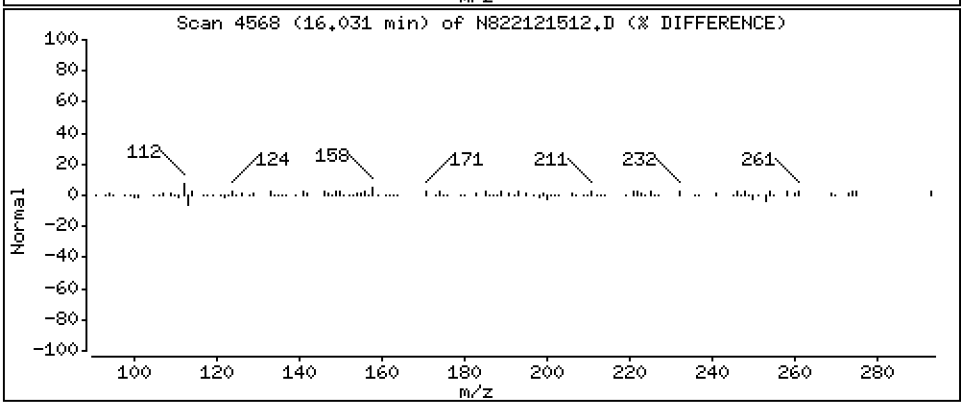












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121512.D

Date : 15-DEC-2022 19:49

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-13,3

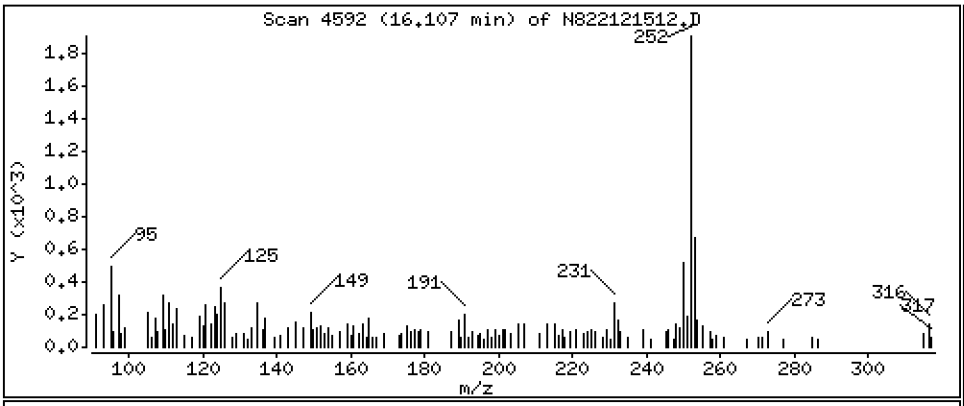
Operator: JZ

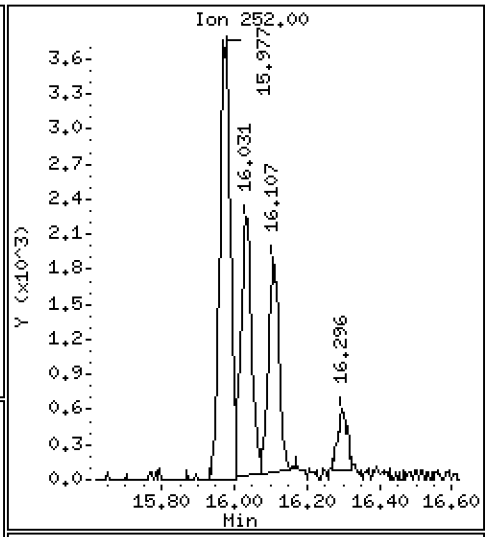
Column phase: Rxi-17sil

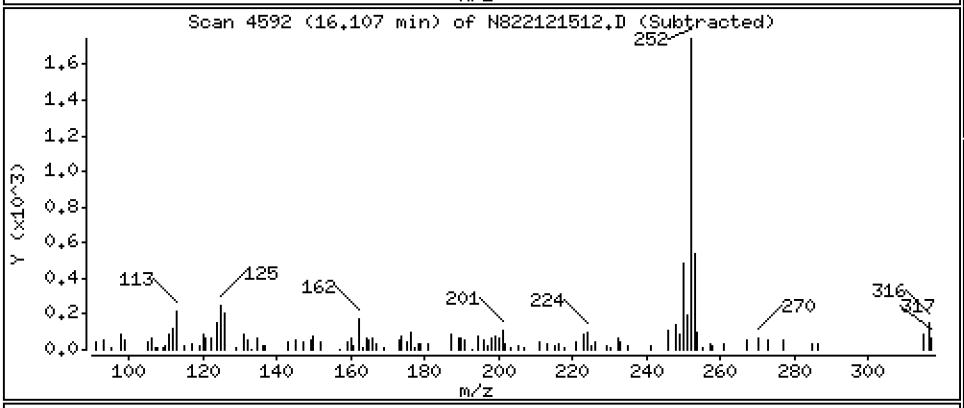
Column diameter: 0.25

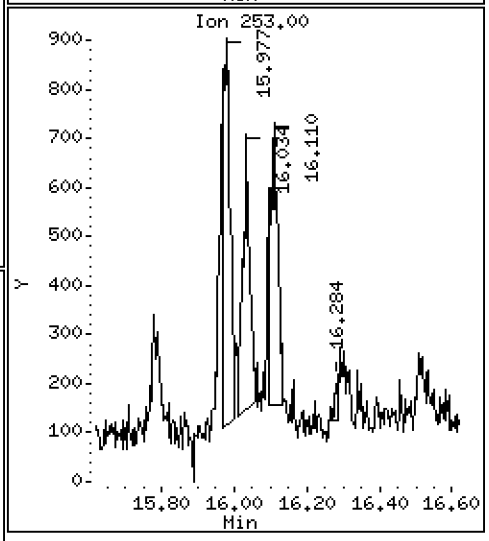
30 Benzo(j)fluoranthene

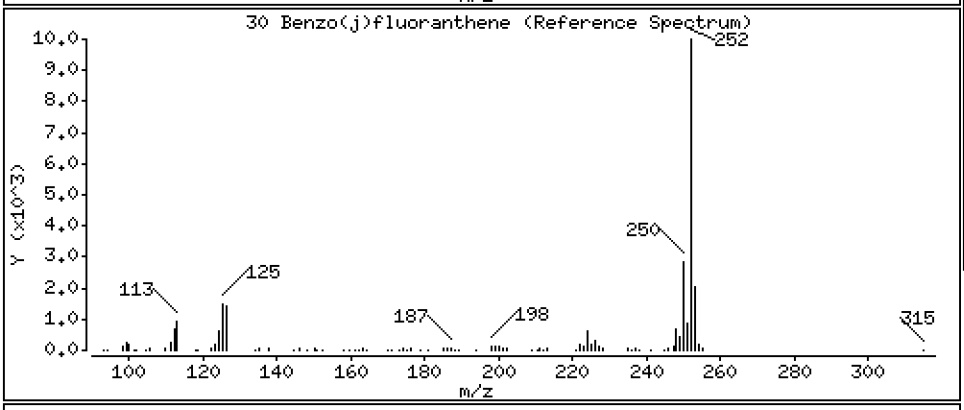
Concentration: 0.3818 ug/mL

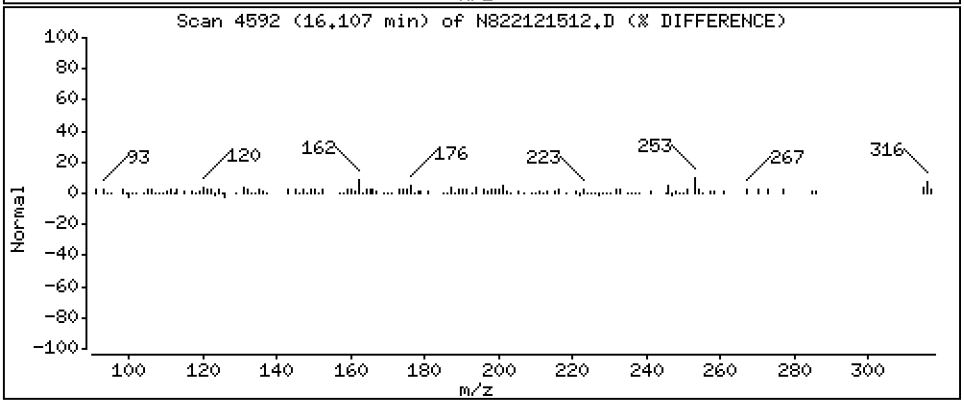












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121512.D

Date : 15-DEC-2022 19:49

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-13,3

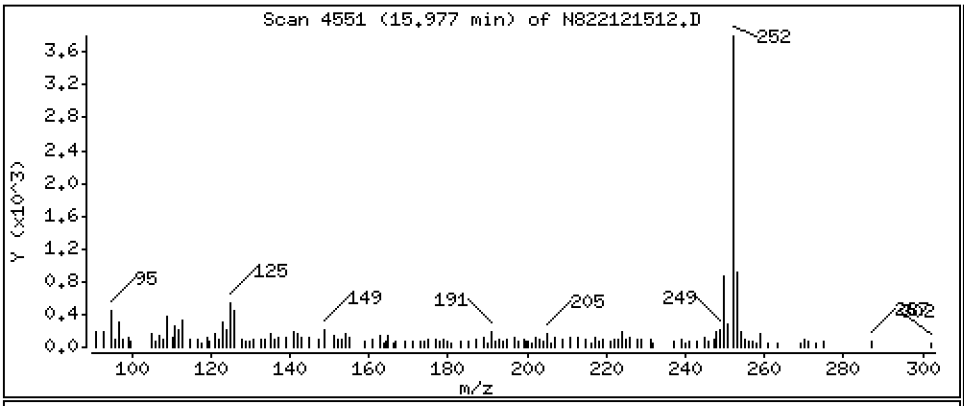
Operator: JZ

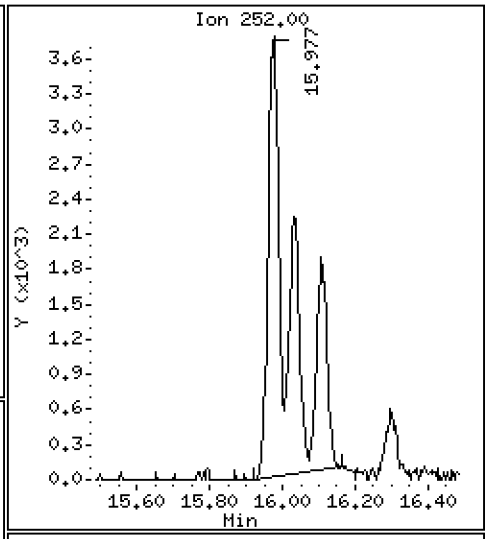
Column phase: Rxi-17sil

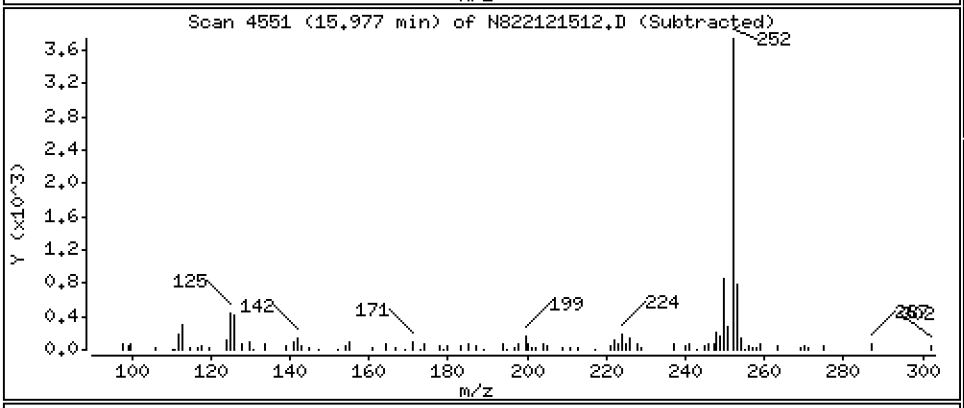
Column diameter: 0.25

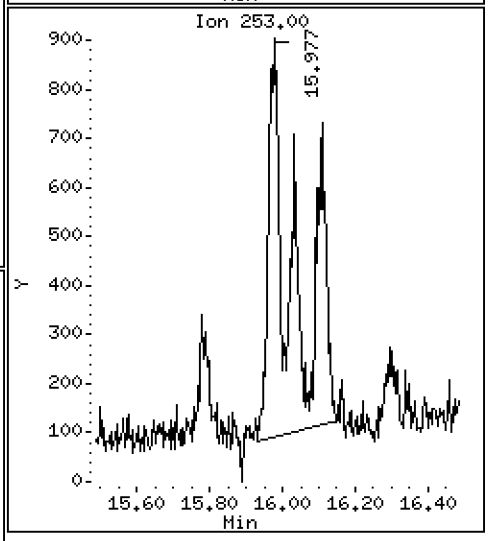
31 Total Benzofluoranthenes

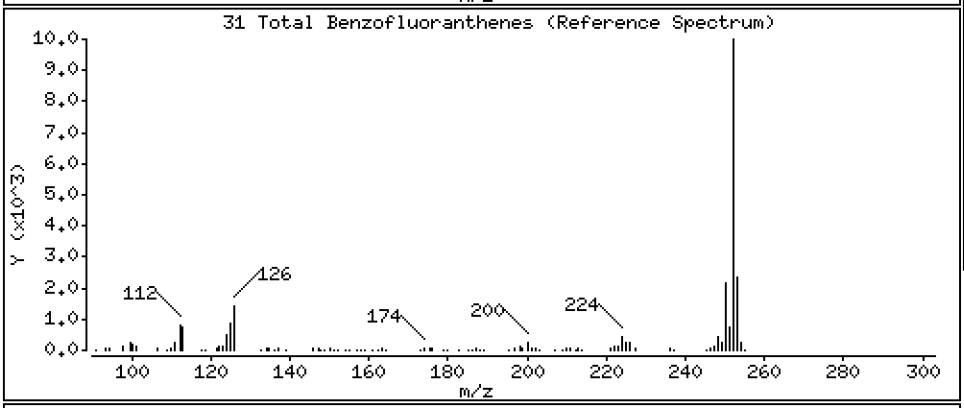
Concentration: 1.487 ug/mL

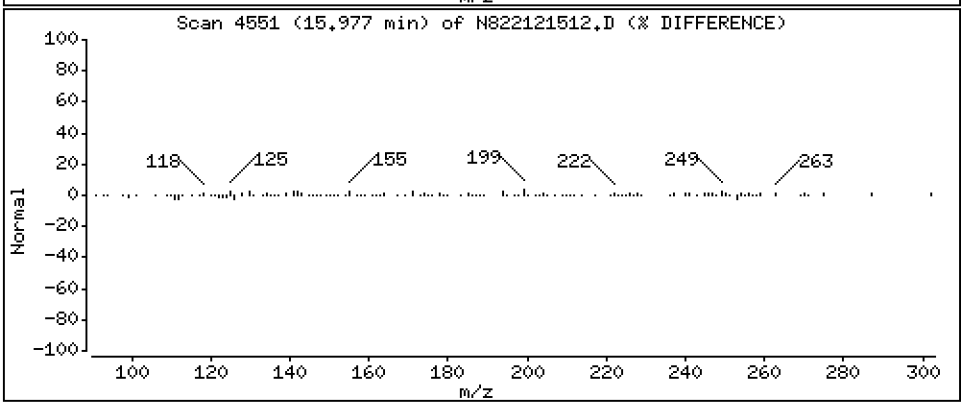












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121512.D

Date : 15-DEC-2022 19:49

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-13,3

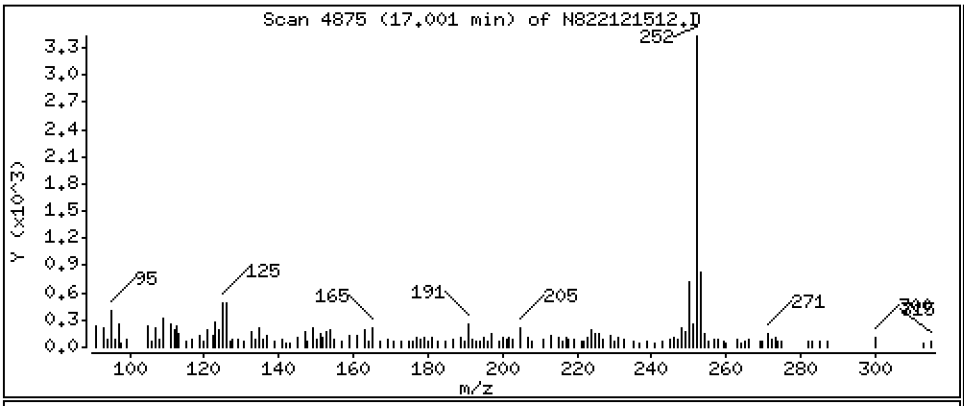
Operator: JZ

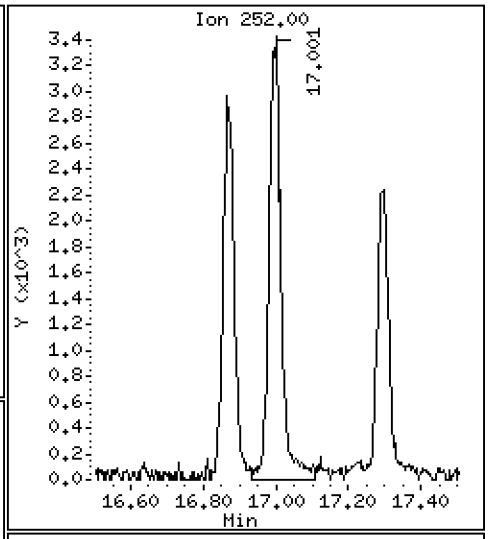
Column phase: Rxi-17sil

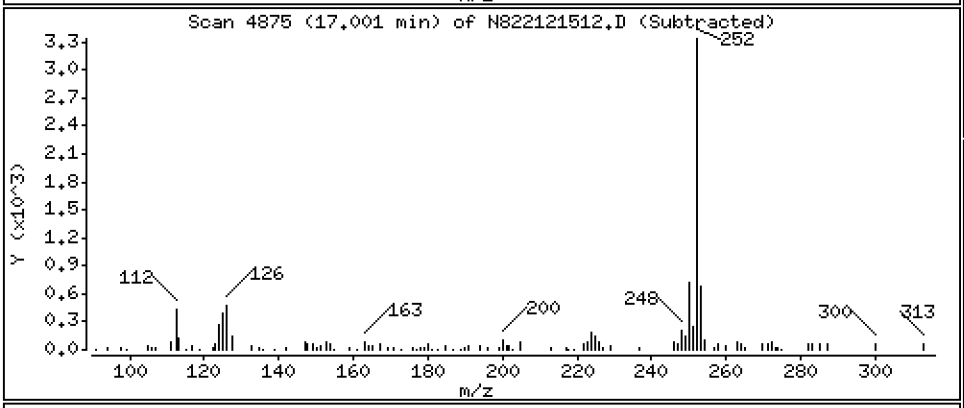
Column diameter: 0.25

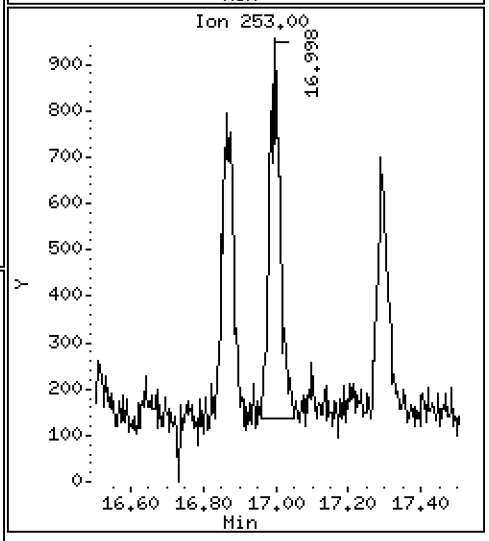
32 Benzo(a)pyrene

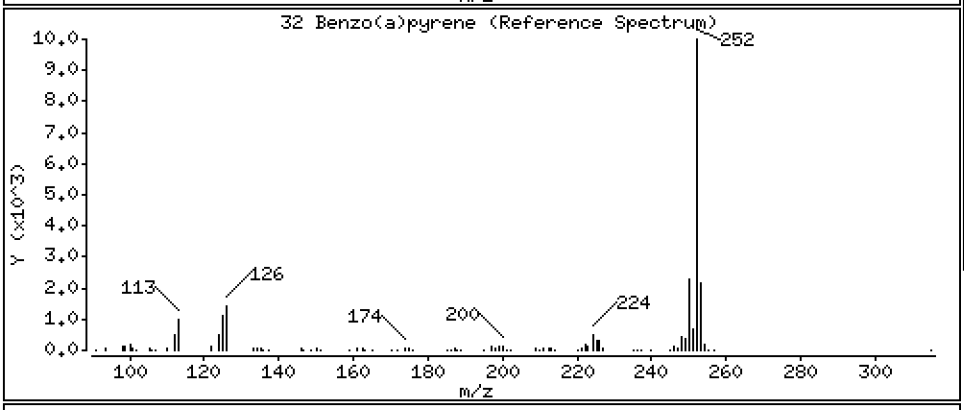
Concentration: 0.8436 ug/mL

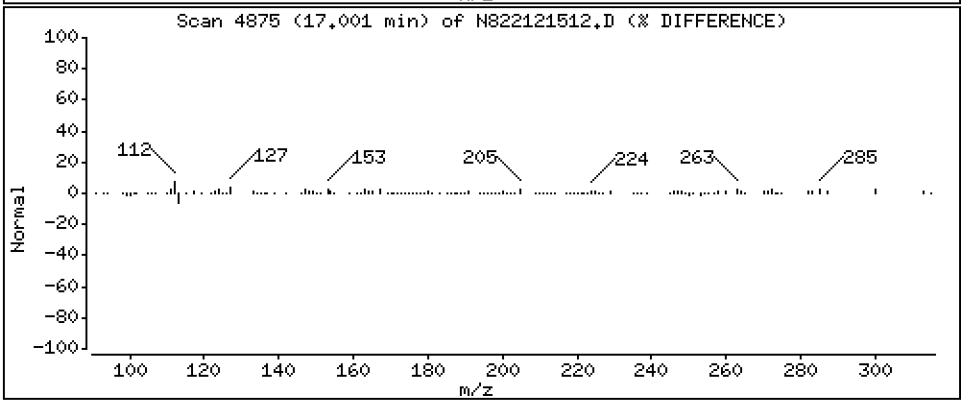












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Date : 15-DEC-2022 19:49

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-13,3

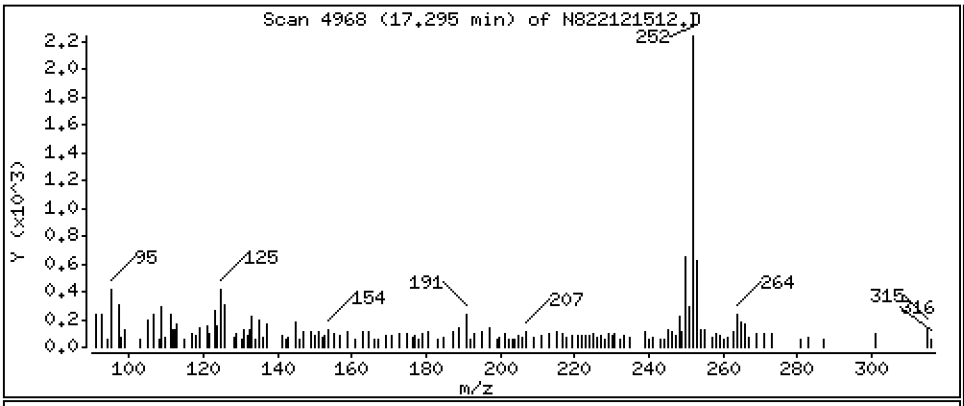
Operator: JZ

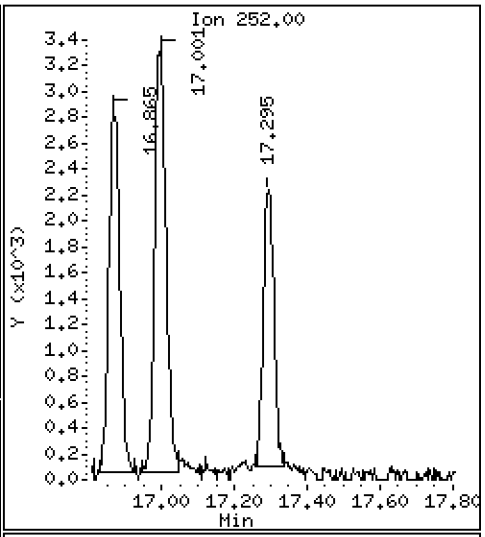
Column phase: Rxi-17sil

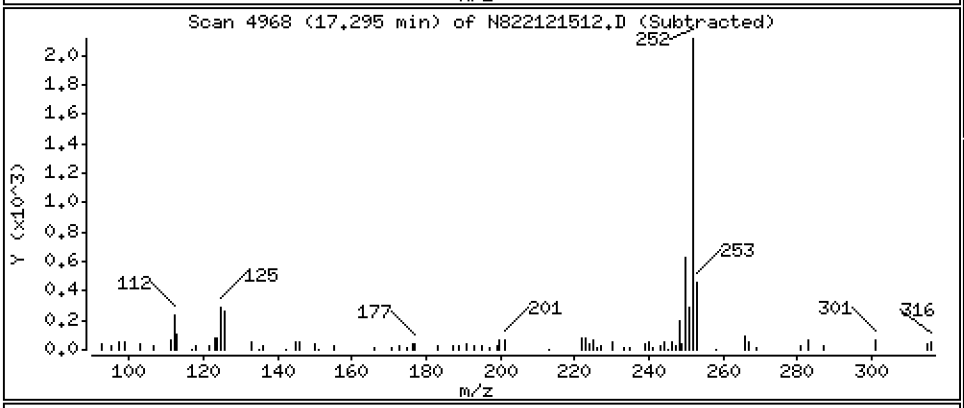
Column diameter: 0.25

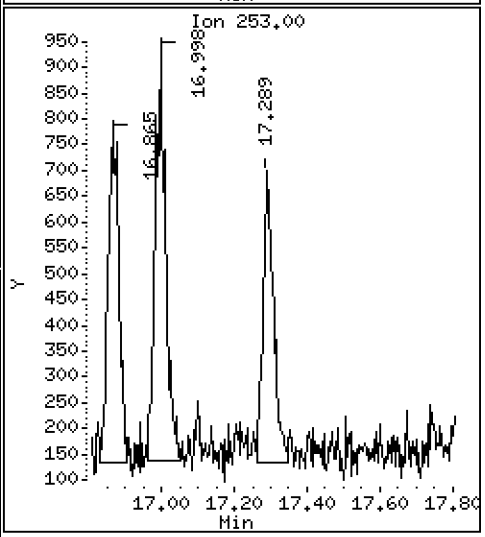
35 Perylene

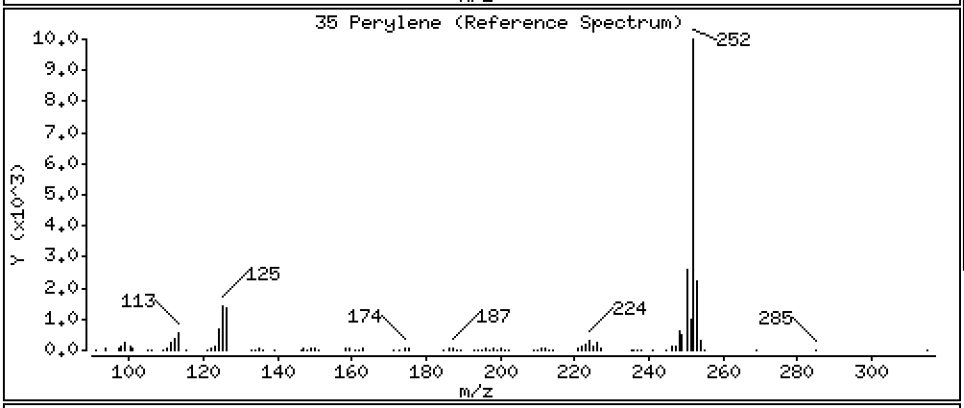
Concentration: 0.4587 ug/mL

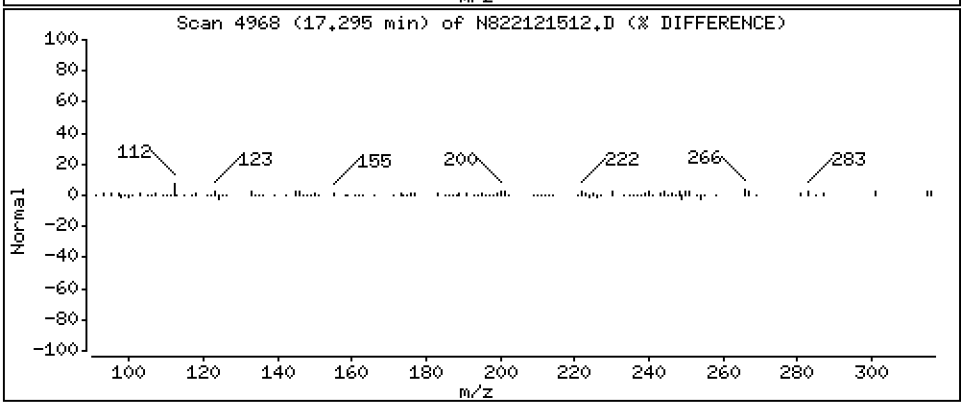












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Date : 15-DEC-2022 19:49

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-13,3

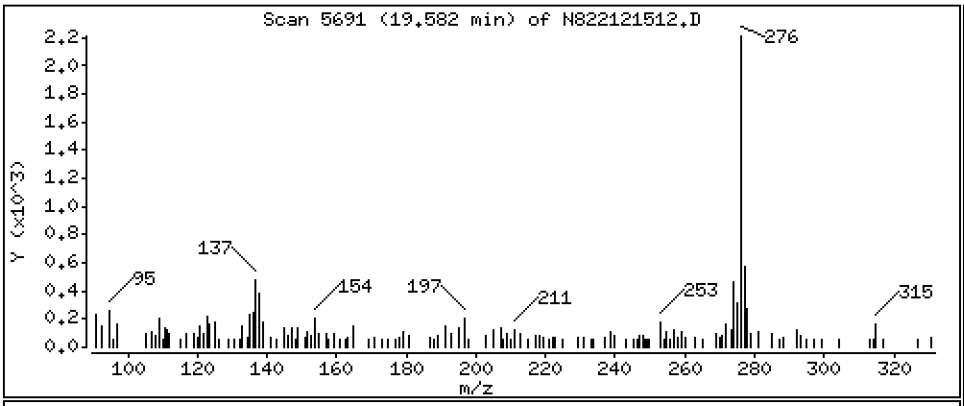
Operator: JZ

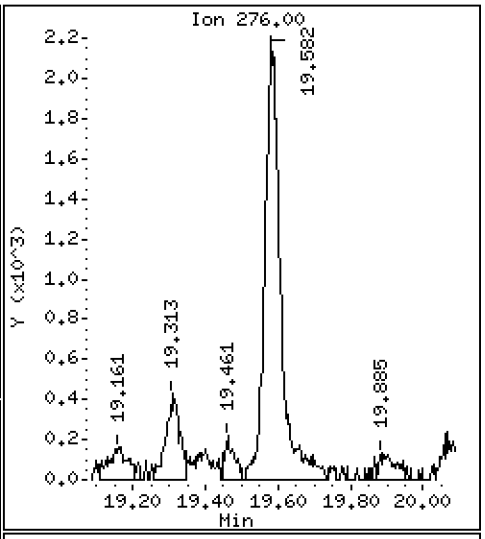
Column phase: Rxi-17sil

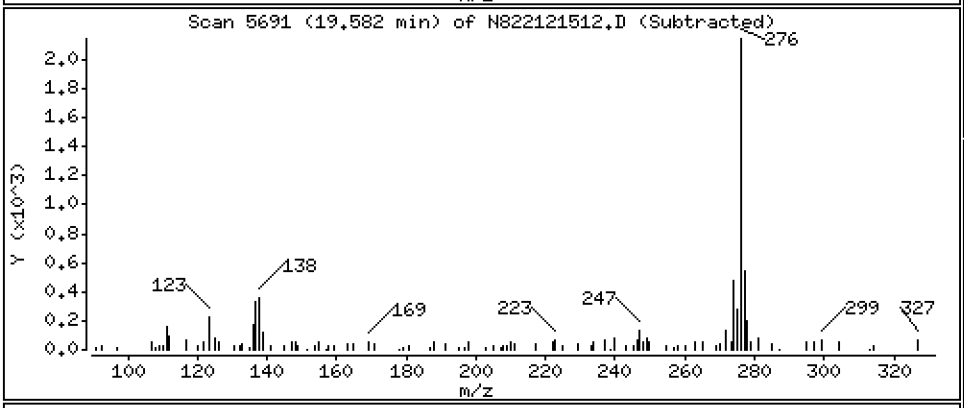
Column diameter: 0.25

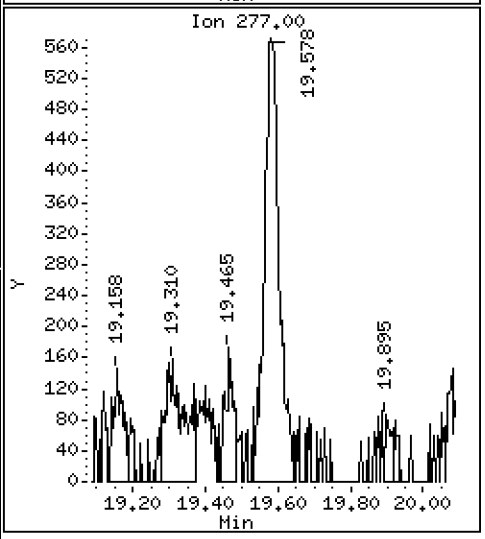
37 Indeno(1,2,3-cd)pyrene

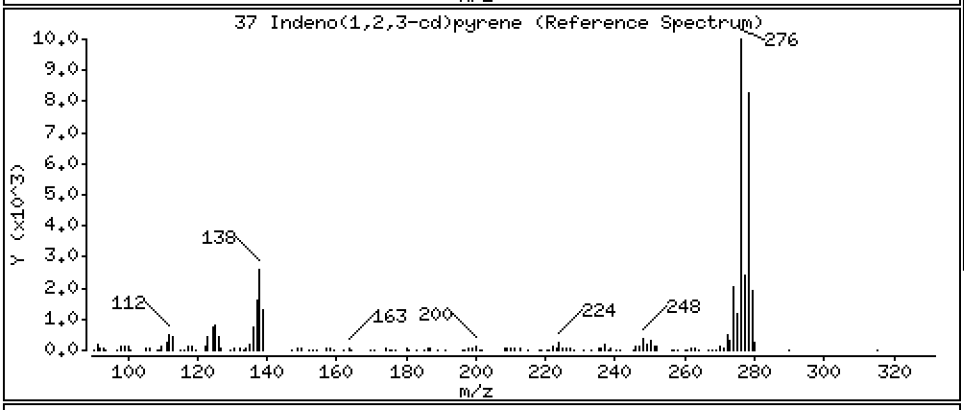
Concentration: 0.7211 ug/mL

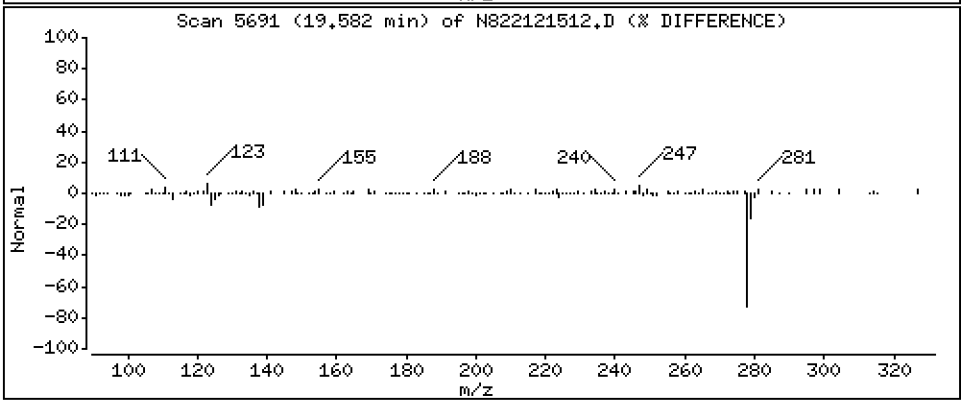












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Date : 15-DEC-2022 19:49

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-13,3

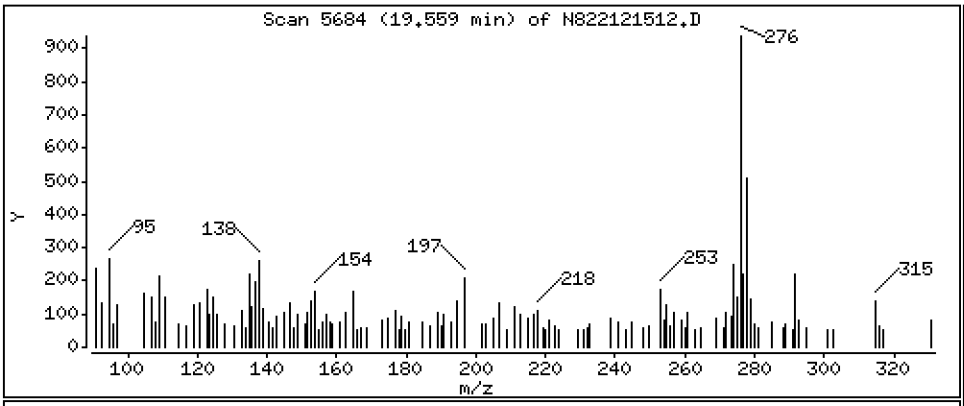
Operator: JZ

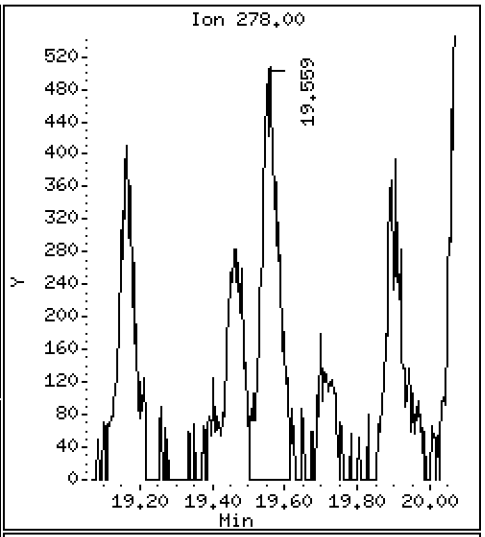
Column phase: Rxi-17sil

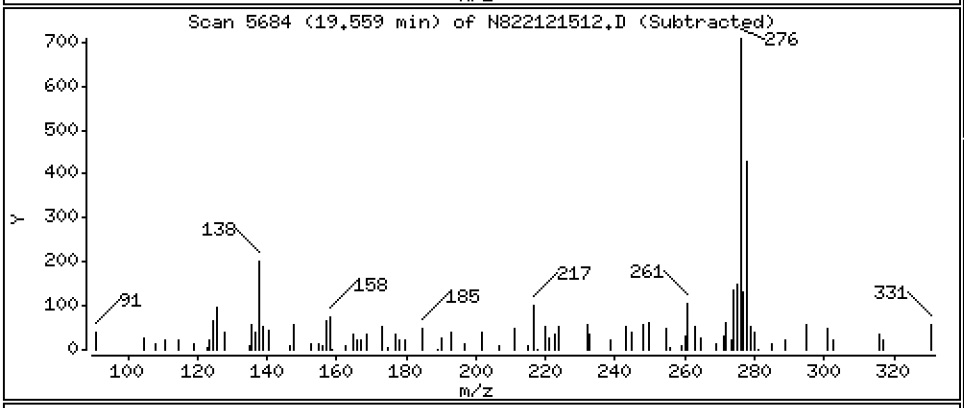
Column diameter: 0.25

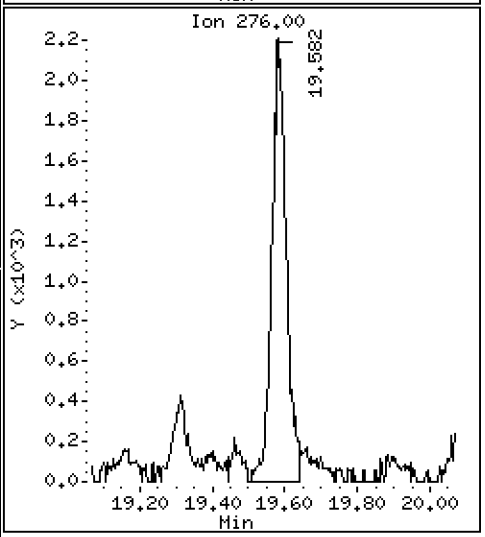
38 Dibenzo(a,h)anthracene

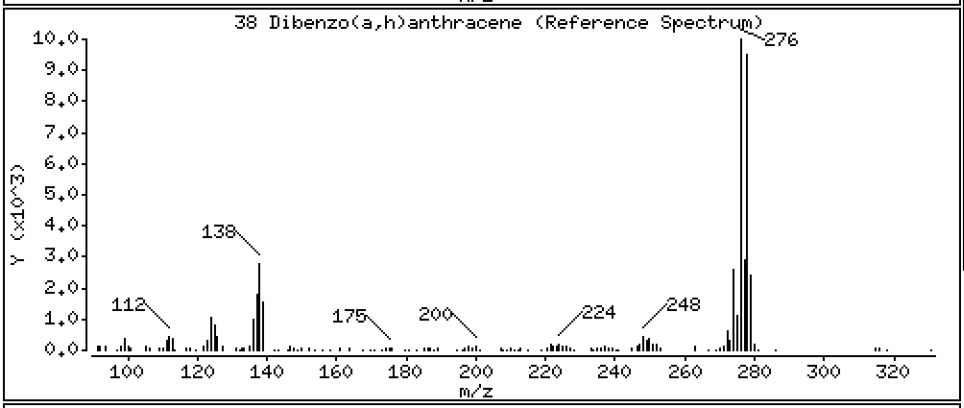
Concentration: 0.2100 ug/mL

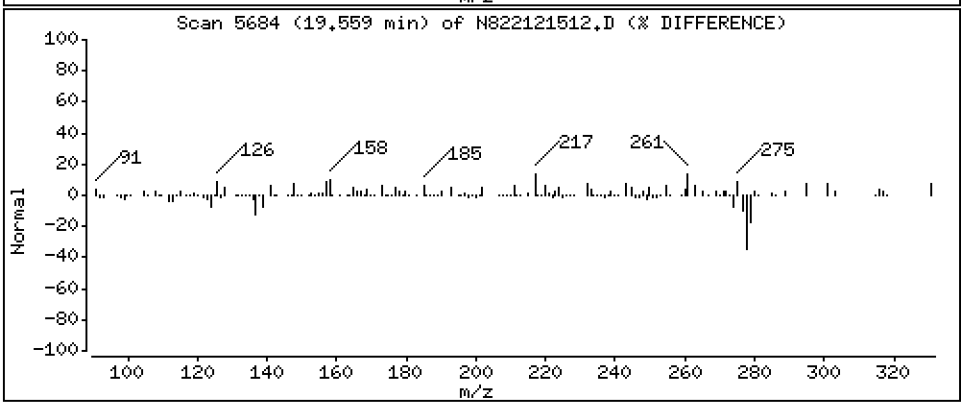












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121512.D

Date : 15-DEC-2022 19:49

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-13,3

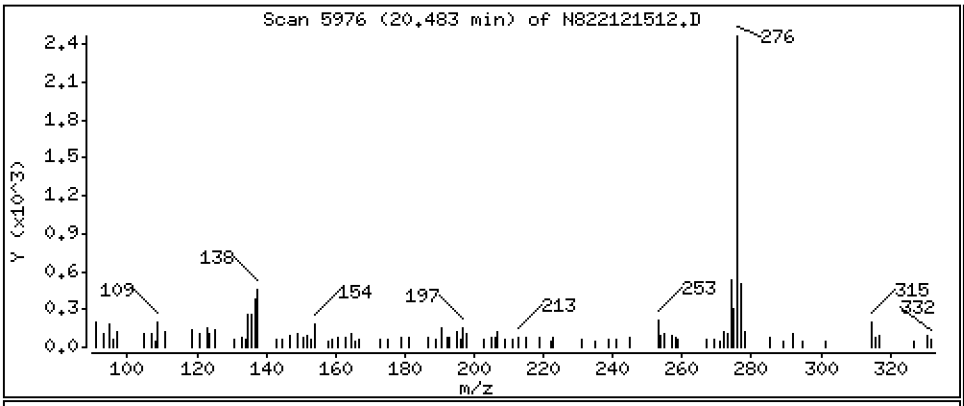
Operator: JZ

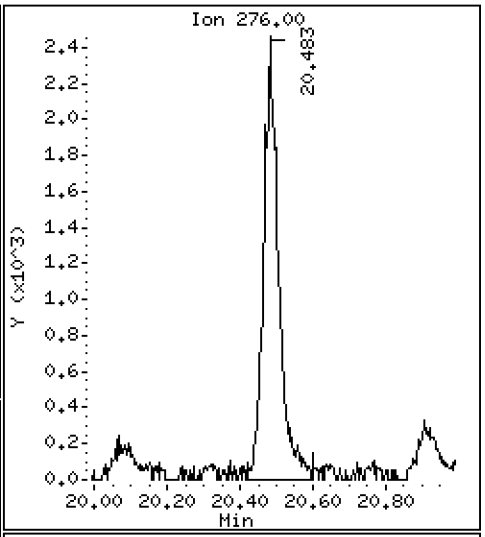
Column phase: Rxi-17sil

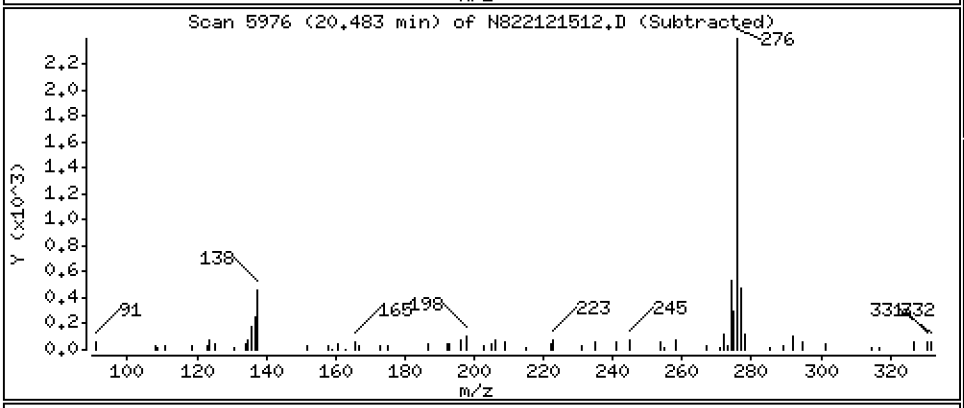
Column diameter: 0.25

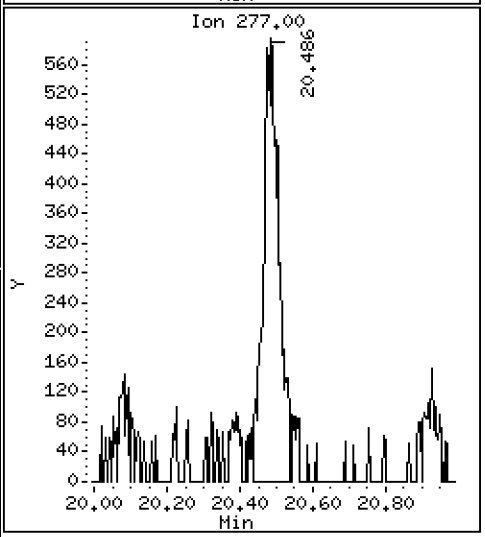
39 Benzo(g,h,i)perylene

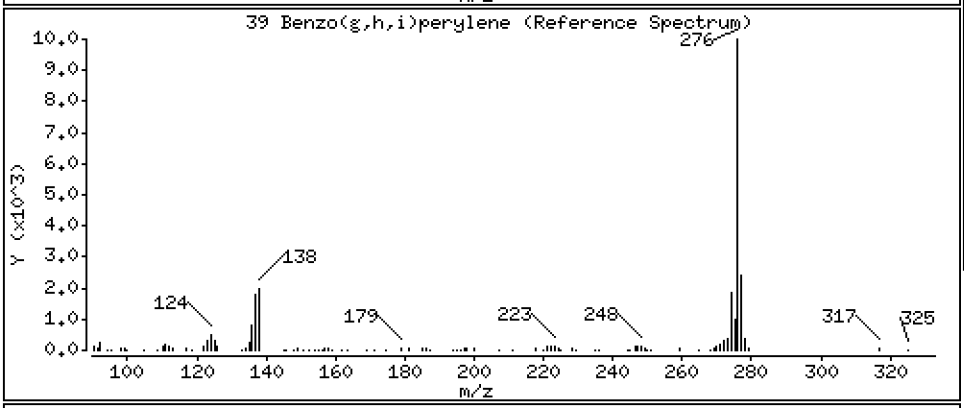
Concentration: 0.8275 ug/mL

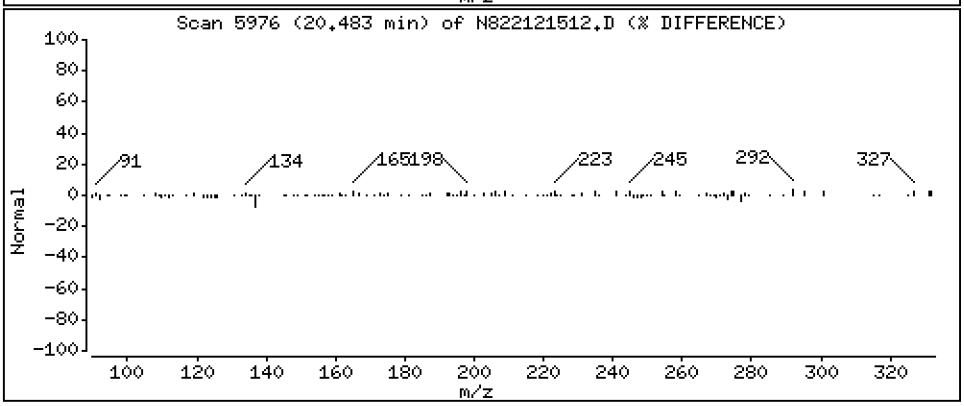












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20221215.b\N822121512.D
Lab Smp Id: 22L0136-13
Inj Date : 15-DEC-2022 19:49
Operator : JZ Inst ID: nt8.i
Smp Info : 22L0136-13,3
Misc Info : 22-
Comment   : 1ul Injection
Method   : \\target\share\chem3\nt8.i\20221215.b\FSIMPNA220411.m
Meth Date : 16-Dec-2022 15:49 jianqing Quant Type: ISTD
Cal Date : 12-APR-2022 15:49 Cal File: NT822041208.D
Als bottle: 12
Dil Factor: 3.00000
Integrator: HP RTE Compound Sublist: PNAXMDL.sub
Target Version: 4.14
Processing Host: JIANQING-202105

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
*	1 Naphthalene-d8	136	4.511	4.521	(1.000)	42765	2.00000	
	2 Naphthalene	128	4.540	4.549	(1.006)	902	0.04163	0.1249
$	3 2-Methylnaphthalene-d10	152	5.238	5.248	(1.161)	7652	0.47441	1.423
	4 2-Methylnaphthalene	141	5.286	5.295	(1.172)	454	0.03682	0.1105
	5 1-methylnaphthalene	141	Compound Not Detected.					
	9 Acenaphthylene	152	6.671	6.677	(0.984)	414	0.01777	0.05331
*	10 Acenaphthene-d10	164	6.778	6.785	(1.000)	26963	2.00000	
	11 Acenaphthene	153	6.826	6.835	(1.007)	524	0.03390	0.1017
	12 Dibenzofuran	168	6.981	6.987	(1.030)	664	0.03062	0.09186
	14 Fluorene	166	7.455	7.458	(1.100)	585	0.03353	0.1006
*	15 Phenanthrene-d10	188	8.799	8.805	(1.000)	52009	2.00000	
	16 Phenanthrene	178	8.834	8.840	(1.004)	8450	0.30627	0.9188
	17 Anthracene	178	8.875	8.881	(1.009)	2050	0.07757	0.2327
	22 Fluoranthene	202	10.509	10.512	(1.194)	19135	0.63386	1.902
$	21 Fluoranthene-d10	212	10.475	10.478	(1.190)	20232	0.58829	1.765
	23 Pyrene	202	10.993	10.984	(0.818)	18510	0.60122	1.804
	24 Benzo(a)anthracene	228	13.330	13.333	(0.991)	7102	0.24668	0.7400
*	25 Chrysene-d12	240	13.447	13.453	(1.000)	45551	2.00000	
	27 Chrysene	228	13.513	13.526	(1.005)	8951	0.32537	0.9761
	28 Benzo(b)fluoranthene	252	15.976	15.986	(0.928)	7858	0.22705	0.6811
	29 Benzo(k)fluoranthene	252	16.030	16.043	(0.931)	4577	0.14256	0.4277
	30 Benzo(j)fluoranthene	252	16.106	16.119	(0.935)	3754	0.12728	0.3818
	31 Total Benzofluoranthenes	252	15.976	15.986	(0.928)	15824	0.49571	1.487(M)
	32 Benzo(a)pyrene	252	17.001	17.004	(0.987)	8034	0.28121	0.8436(M)
*	33 Perylene-d12	264	17.222	17.229	(1.000)	48746	2.00000	
	35 Perylene	252	17.295	17.308	(1.004)	4374	0.15289	0.4587
$	36 Dibenzo(a,h)anthracene-d14	292	19.464	19.470	(1.130)	17461	0.83383	2.501(M)
	37 Indeno(1,2,3-cd)pyrene	276	19.581	19.587	(1.137)	6735	0.24036	0.7211
	38 Dibenzo(a,h)anthracene	278	19.559	19.568	(1.136)	1692	0.07000	0.2100(M)
	39 Benzo(g,h,i)perylene	276	20.482	20.492	(1.189)	7190	0.27585	0.8275(M)

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt8.i
Lab File ID: N822121512.D
Lab Smp Id: 22L0136-13
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: \\target\share\chem3\nt8.i\20221215.b\FSIMPNA220411.m
Misc Info: 22-

Calibration Date: 15-DEC-2022
Calibration Time: 10:02
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	49492	24746	98984	42765	-13.59
10 Acenaphthene-d10	30076	15038	60152	26963	-10.35
15 Phenanthrene-d10	58825	29413	117650	52009	-11.59
25 Chrysene-d12	58593	29297	117186	45551	-22.26
33 Perylene-d12	63012	31506	126024	48746	-22.64

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	4.52	4.02	5.02	4.51	-0.21
10 Acenaphthene-d10	6.79	6.29	7.29	6.78	-0.09
15 Phenanthrene-d10	8.81	8.31	9.31	8.80	-0.07
25 Chrysene-d12	13.45	12.95	13.95	13.45	-0.05
33 Perylene-d12	17.23	16.73	17.73	17.22	-0.04

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

REVIEW SUMMARY FOR FILE - N822121512.D

Lab ID: 22L0136-13
nt8.i, 20221215.b\FSIMPNA220411.m,   15-DEC-2022 19:49

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

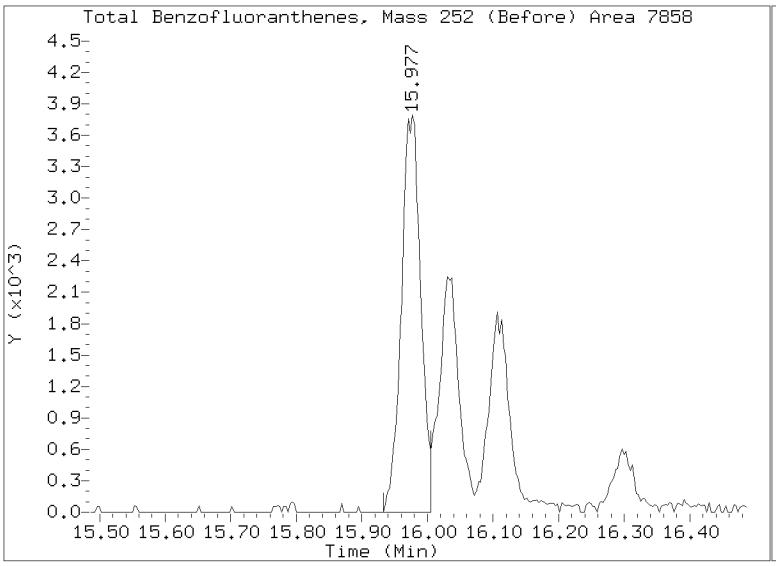
No RRT check performed

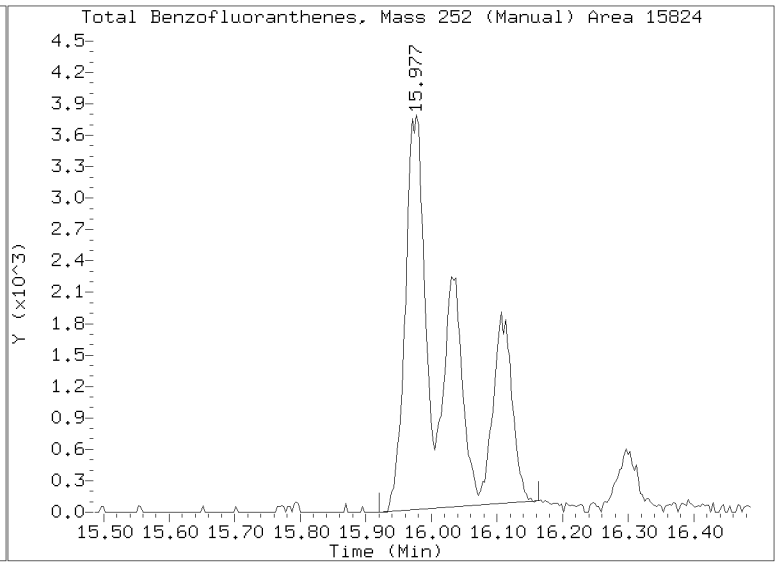
On Column LOD for nt8.i, 20221215.b\FSIMPNA220411.m, PNAXMDL.sub = 0.0080

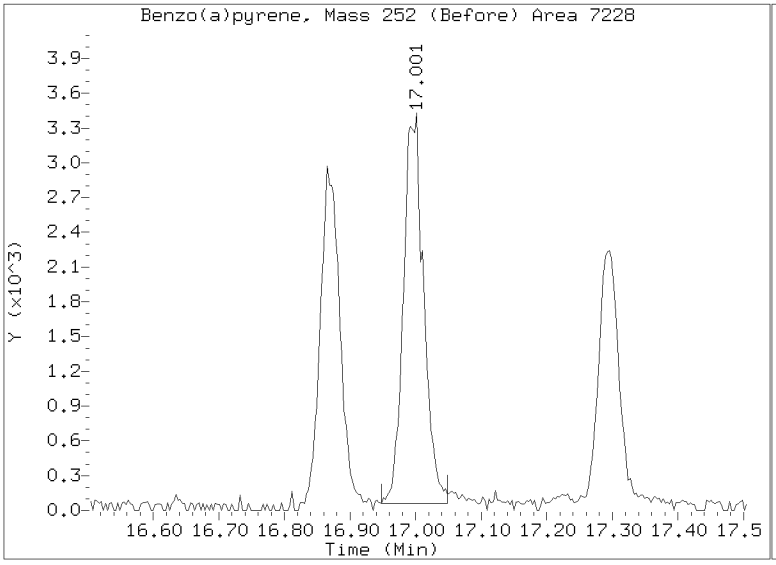
* Only compounds listed in the work order have been verified by the analyst *

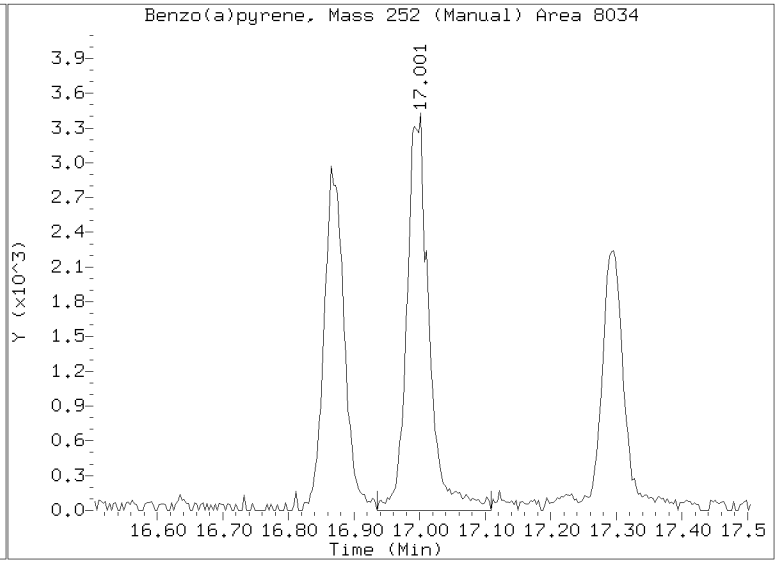
Quant Ion Manual Peak Adjustment Report

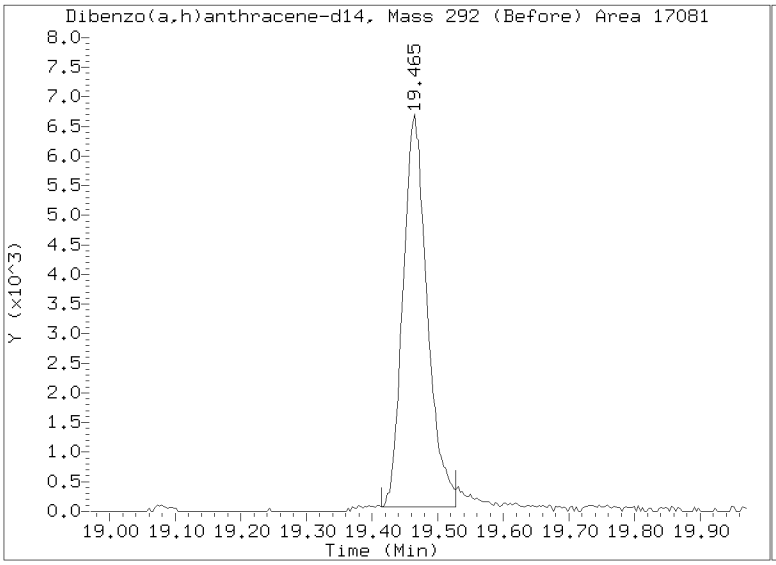
Datafile: //target/share/chem3/nt8.i/20221215.b/N822121512.D
Injection Date: 15-DEC-2022 19:49
Lab ID:22L0136-13 Client ID:
Report Date: 12/16/2022 16:17

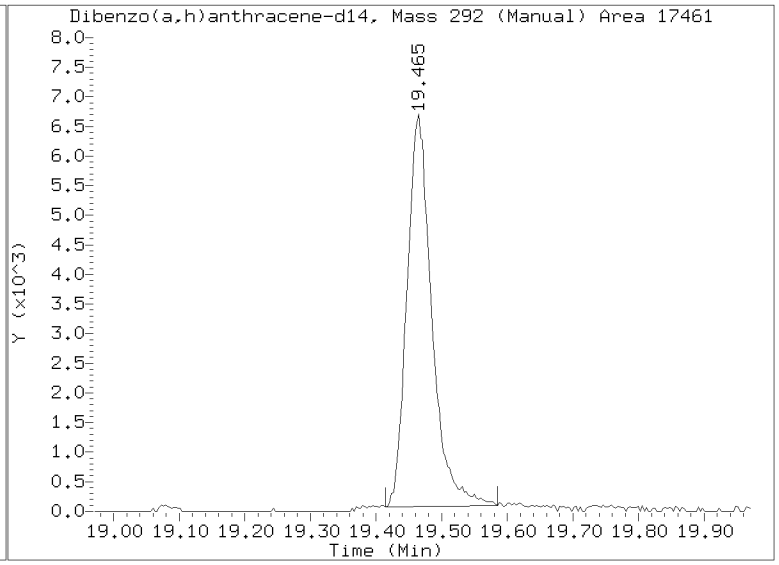












Quant Ion Manual Peak Adjustment Report

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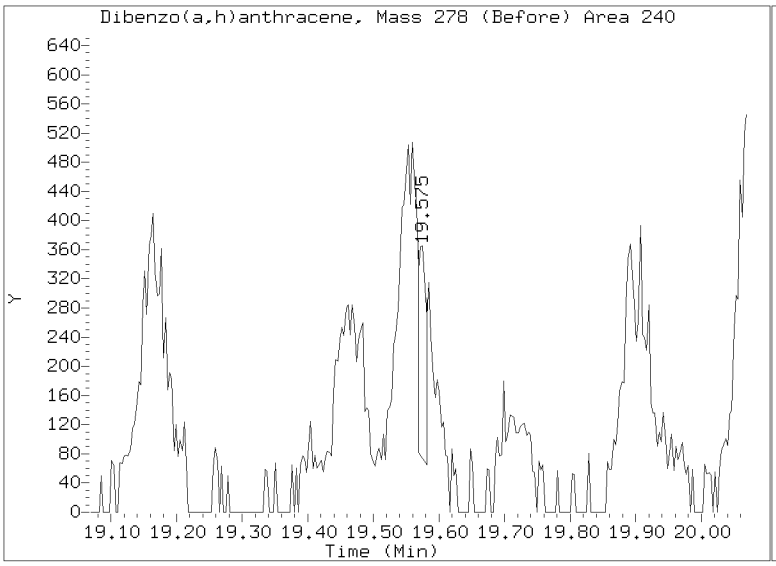
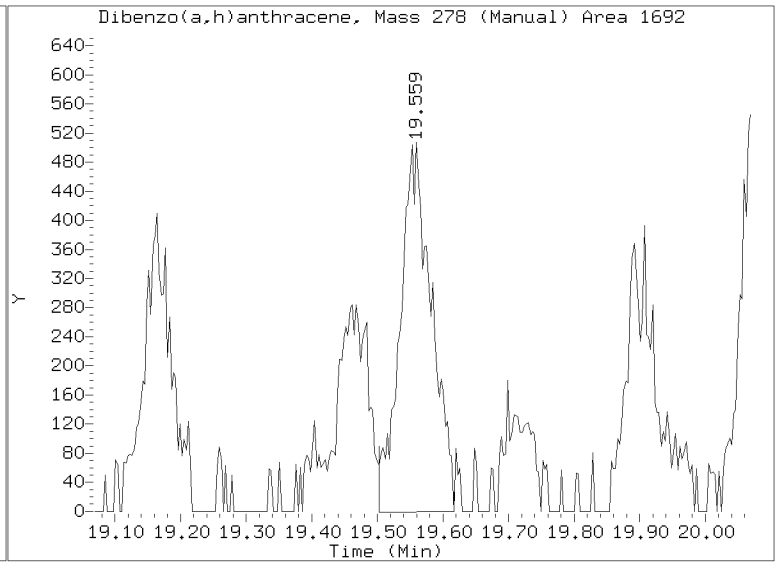
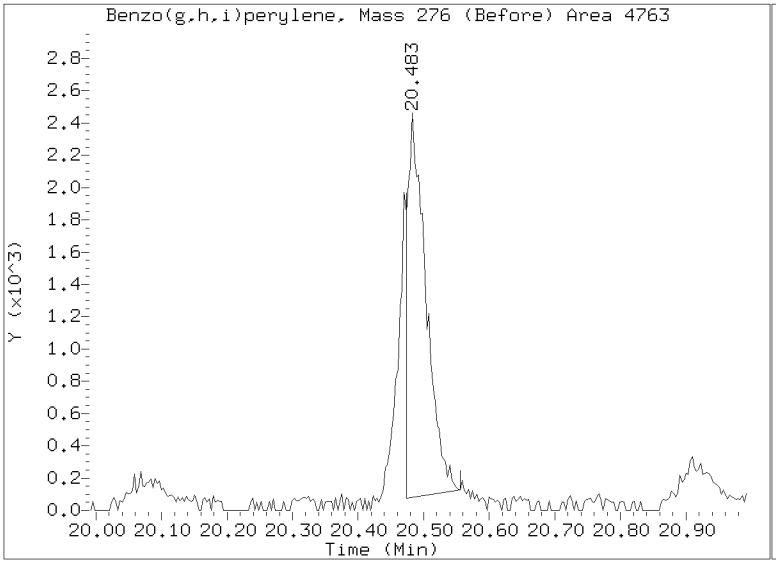
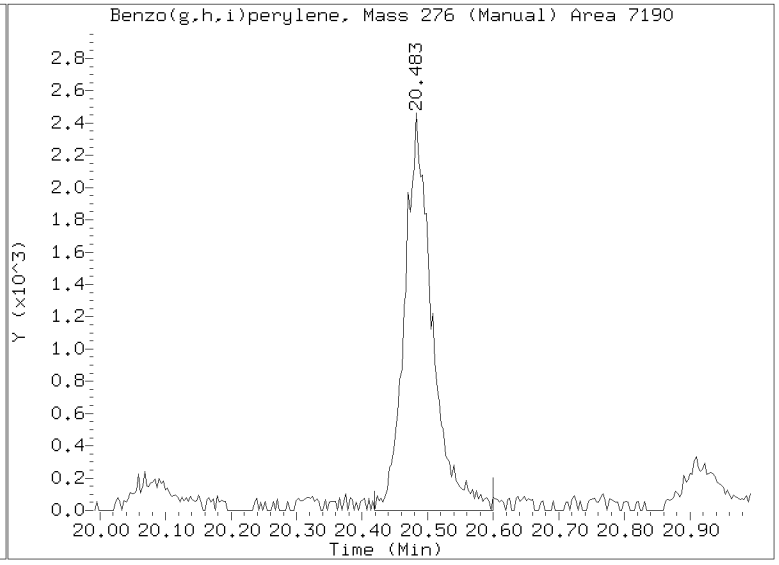
Lab ID:22L0136-13 Client ID:
Report Date: 12/16/2022 16:17









Analytical Resources, LLC
Analytical Chemists and Consultants

LDW22-SS824

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E-SIM

Polynuclear Aromatic Hydrocarbons

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-14 A	SDG:	22L0136
Sampled:	12/06/22 14:45	Prepared:	12/09/22 14:08	File ID:	N822121513.D
% Solids:	20.32	Preparation:	EPA 3546 (Microwave)	Analyzed:	12/15/22 20:16
Batch:	BKL0196	Sequence:	SKL0227	Initial/Final:	20.05 g Wet / 0.5 mL
Instrument:	NT8	Column:	RXI-17Sil ms	Calibration:	FD00034
Cleanups:	GPC, Silica Gel				

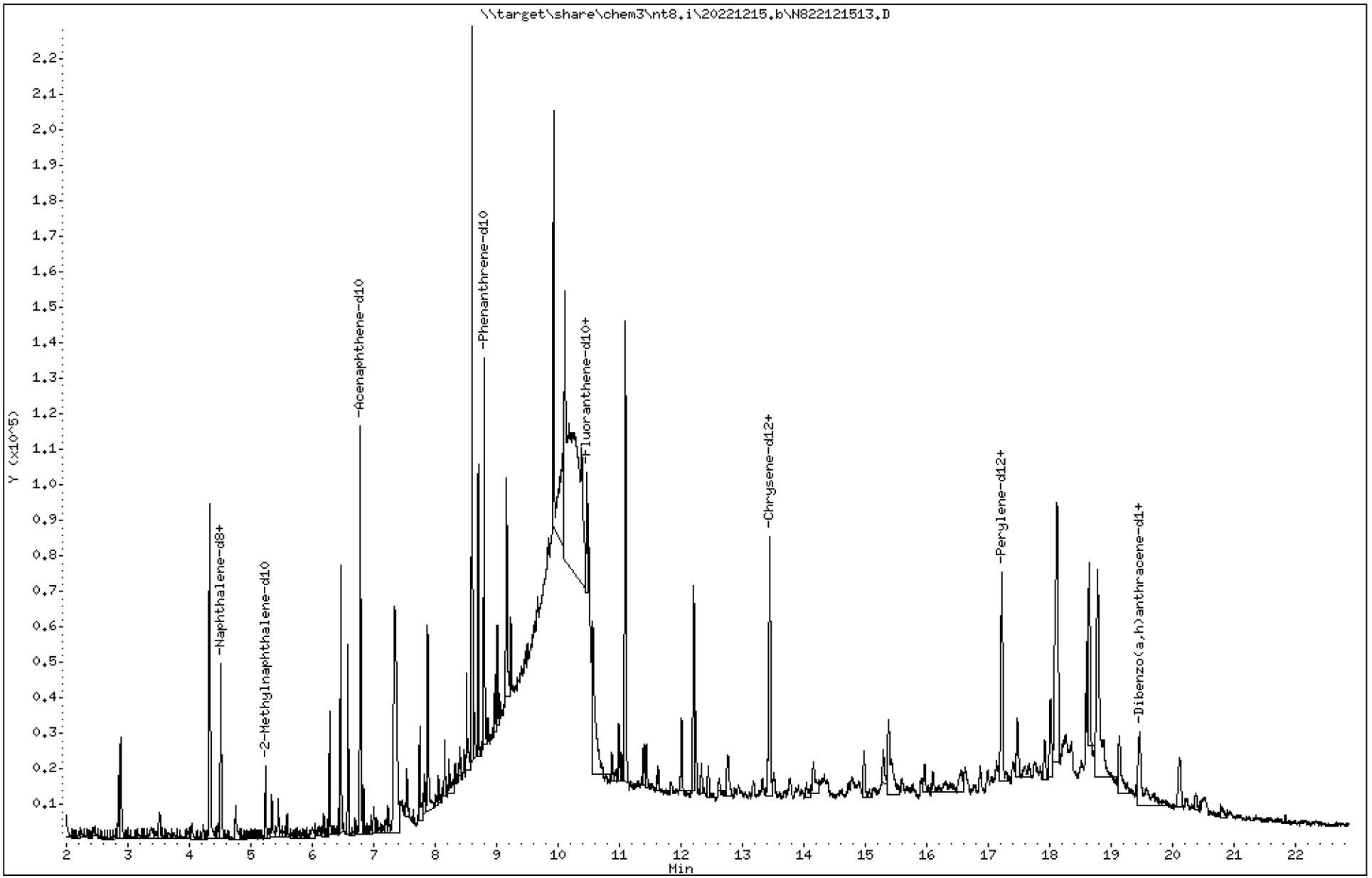
CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
56-55-3	Benzo(a)anthracene	3	39.3	D	6.07	36.8
218-01-9	Chrysene	3	62.1	D	7.75	36.8
205-99-2	Benzo(b)fluoranthene	3	49.1	D	10.1	36.8
207-08-9	Benzo(k)fluoranthene	3	26.5	J, D	5.60	36.8
50-32-8	Benzo(a)pyrene	3	44.4	D	4.52	36.8
193-39-5	Indeno(1,2,3-cd)pyrene	3	45.8	D	7.73	36.8
53-70-3	Dibenzo(a,h)anthracene	3	14.1	J, D	6.56	36.8

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Methylnaphthalene-d10	368.17	170	46.1	32 - 120	
Dibenzo[a,h]anthracene-d14	368.17	273	74.1	21 - 133	
Fluoranthene-d10	368.17	191	51.8	36 - 134	

Data File: \\target\share\chem3\nt8.i\20221215.b\N822121513.D
Date : 15-DEC-2022 20:16
Client ID:
Sample Info: 22L0136-14,3

Instrument: nt8.i
Operator: JZ
Column diameter: 0.25

Column phase: Rxi-17sil



Data File: \\target\share\chem3\nt8.i\20221215.b\N822121513.D

Date : 15-DEC-2022 20:16

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-14,3

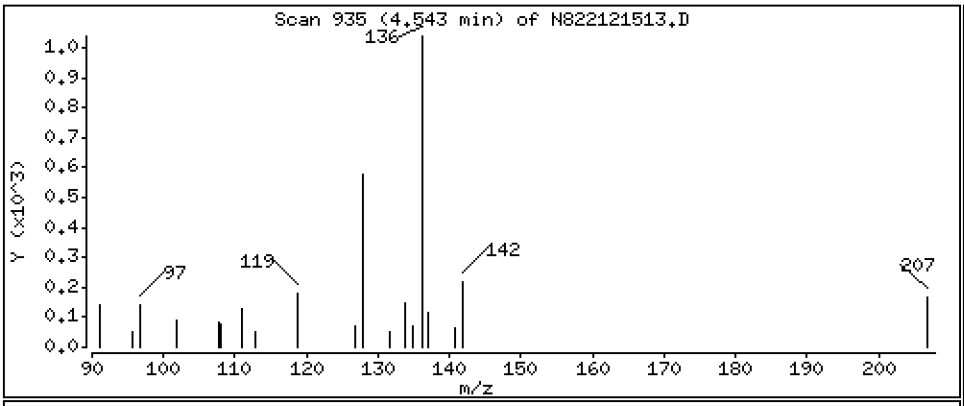
Operator: JZ

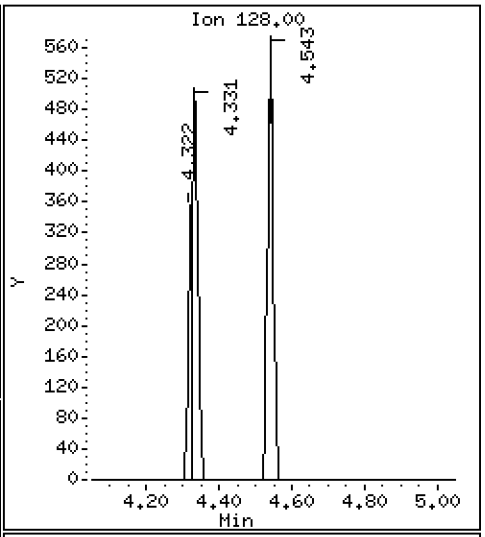
Column phase: Rxi-17sil

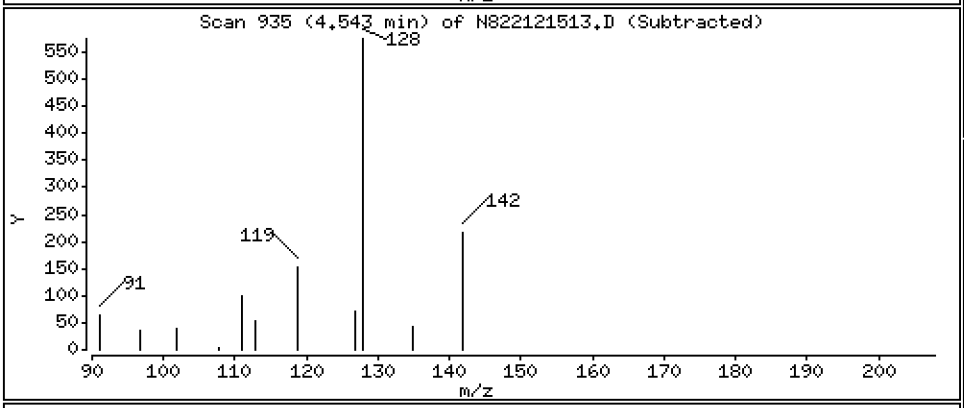
Column diameter: 0.25

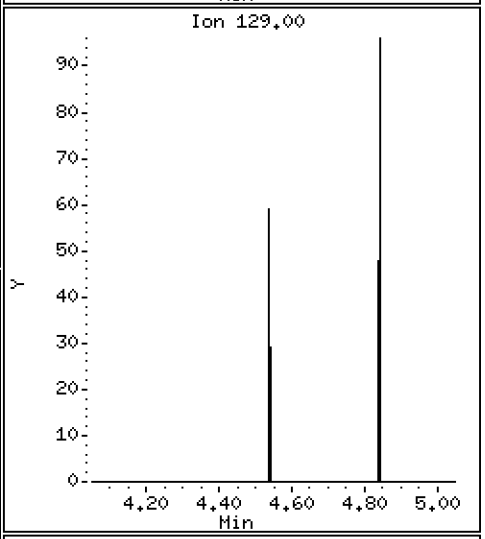
2 Naphthalene

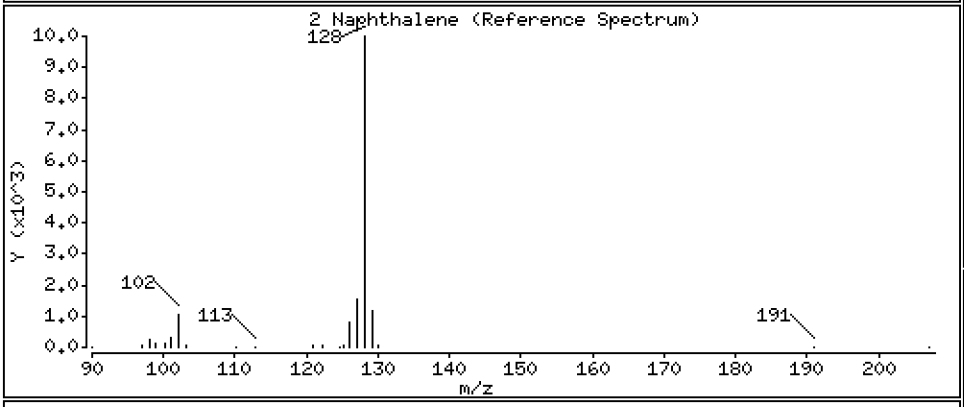
Concentration: 0.08583 ug/mL

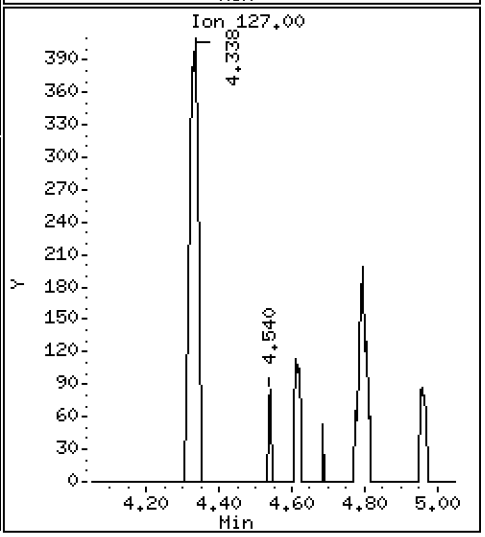


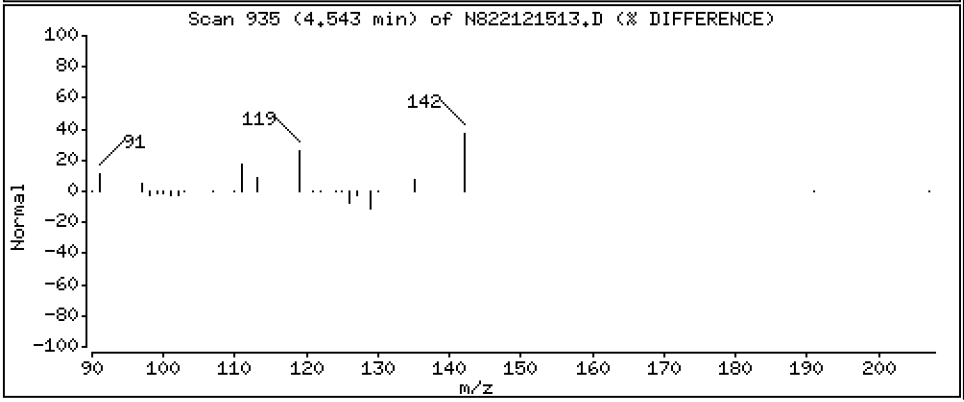












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Date : 15-DEC-2022 20:16

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-14,3

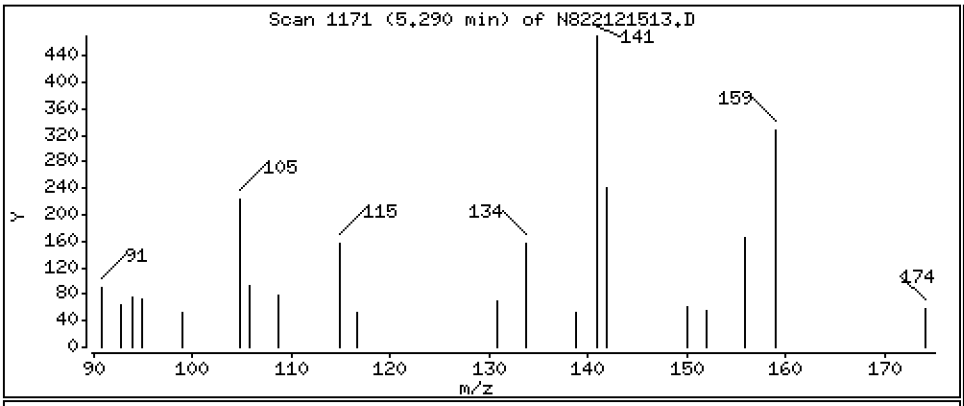
Operator: JZ

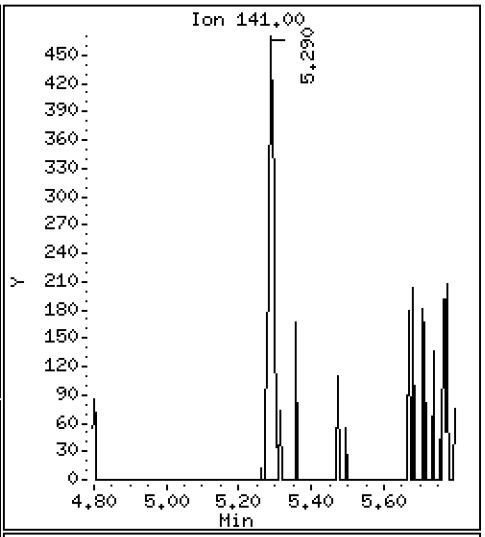
Column phase: Rxi-17sil

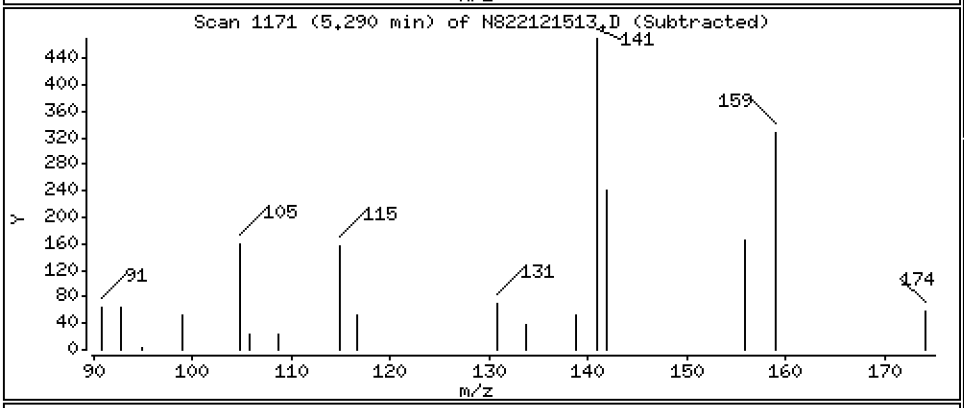
Column diameter: 0.25

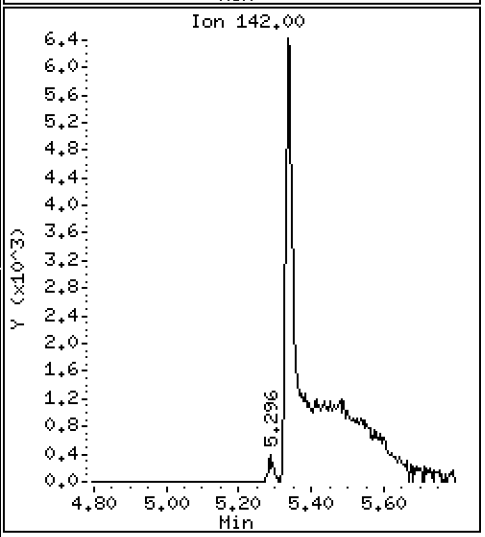
4 2-Methylnaphthalene

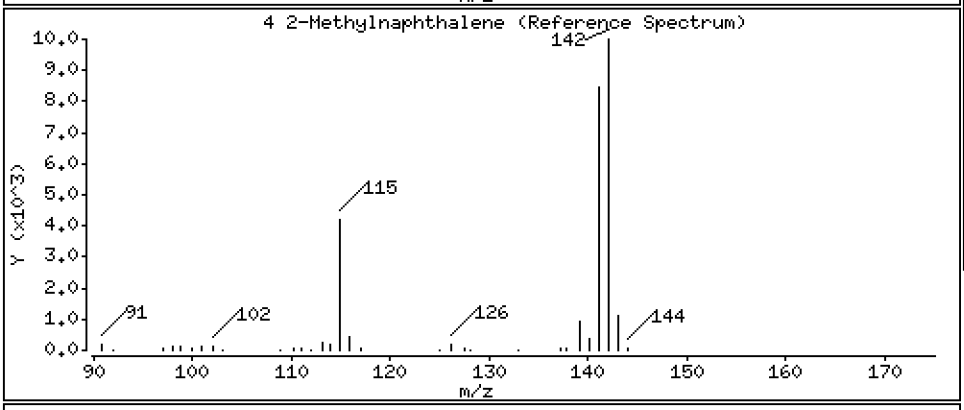
Concentration: 0.1132 ug/mL

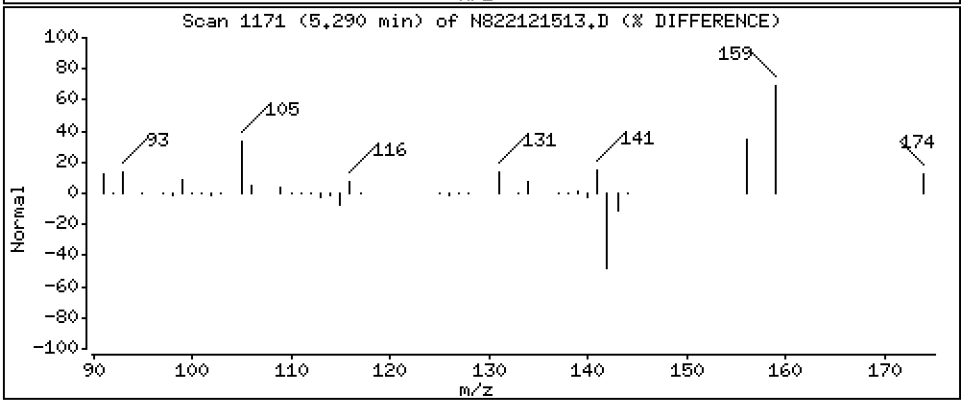












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121513.D

Date : 15-DEC-2022 20:16

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-14,3

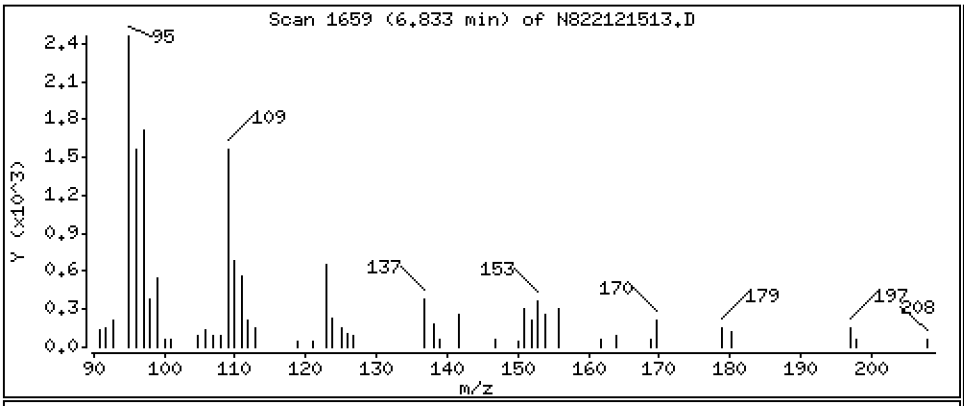
Operator: JZ

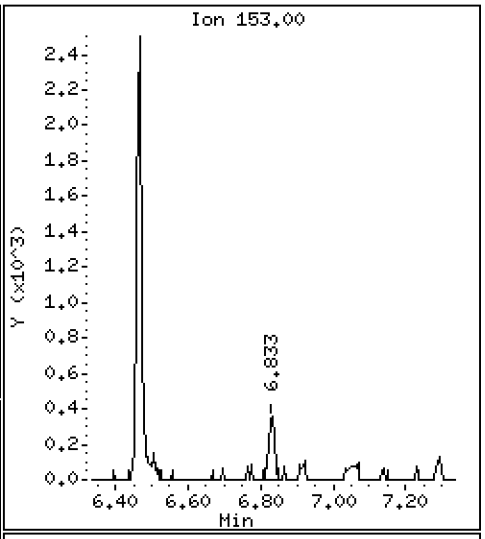
Column phase: Rxi-17sil

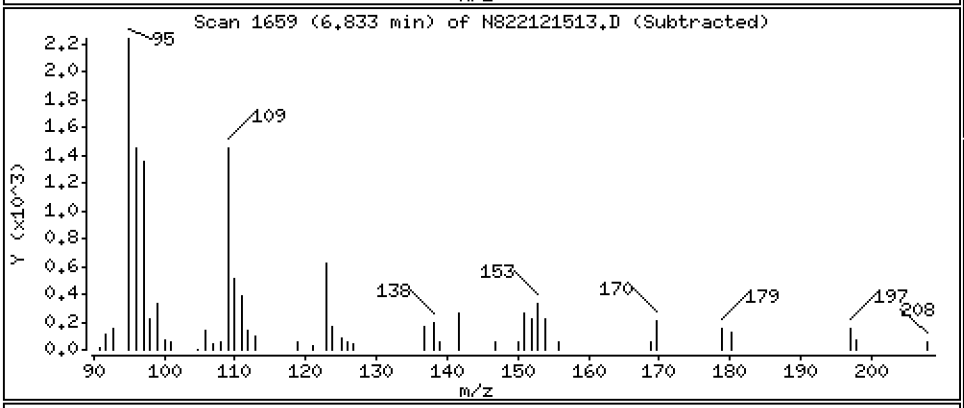
Column diameter: 0.25

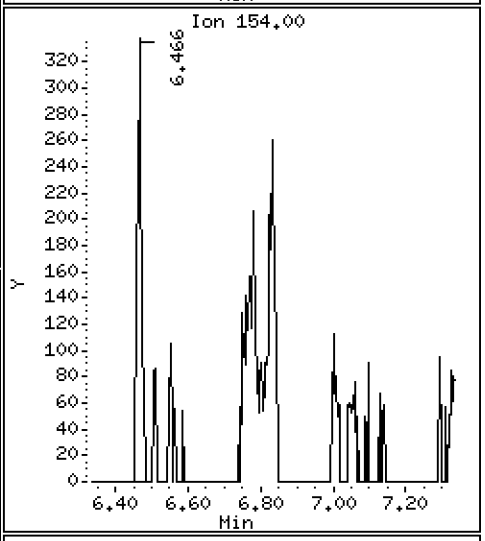
11 Acenaphthene

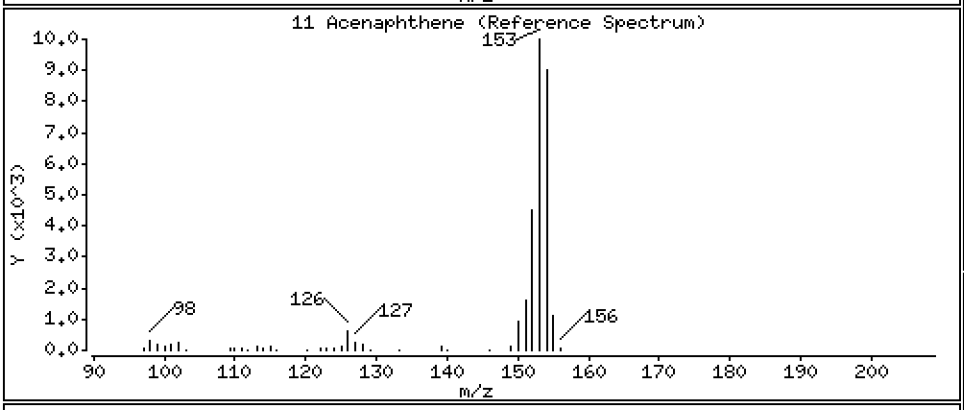
Concentration: 0.07292 ug/mL

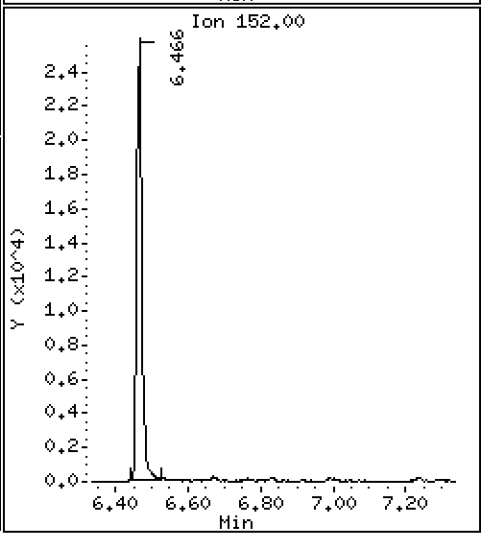


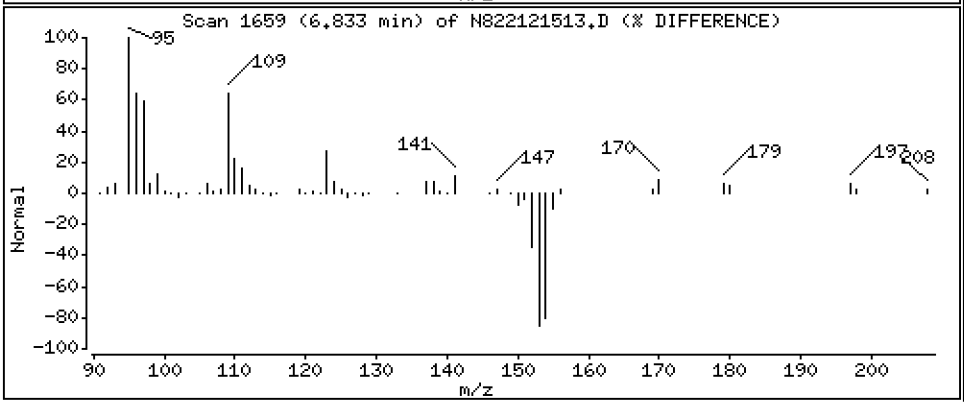












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Date : 15-DEC-2022 20:16

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-14,3

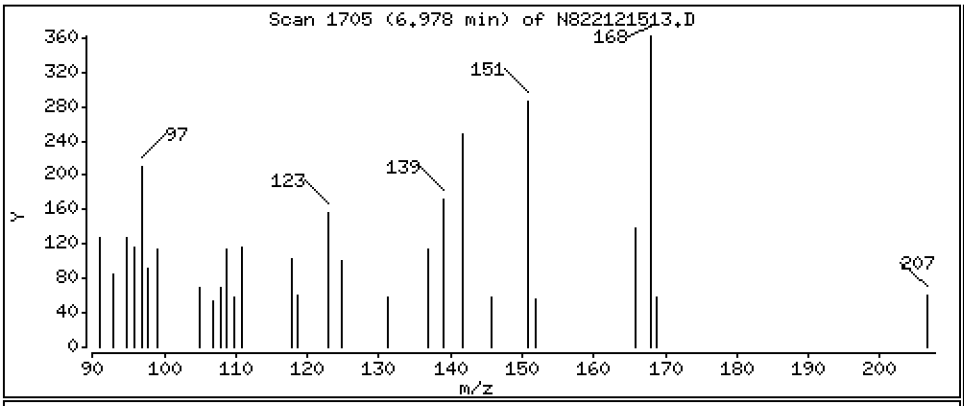
Operator: JZ

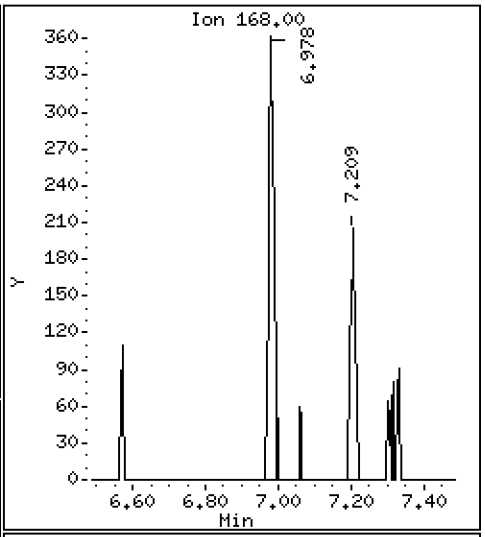
Column phase: Rxi-17sil

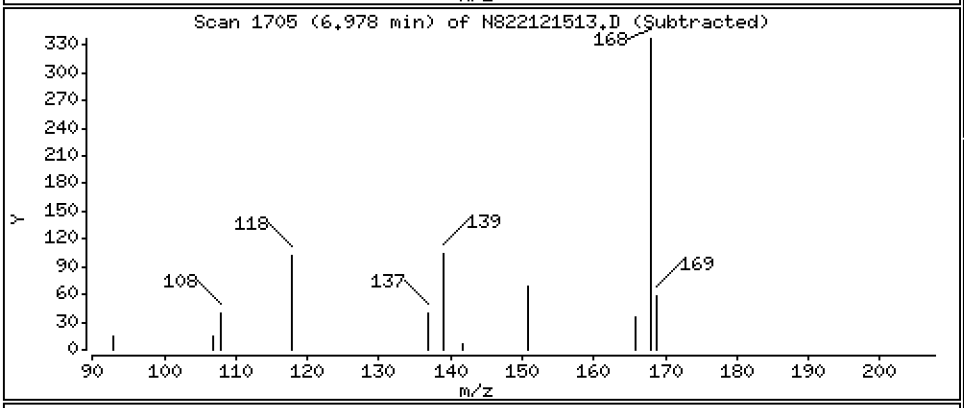
Column diameter: 0.25

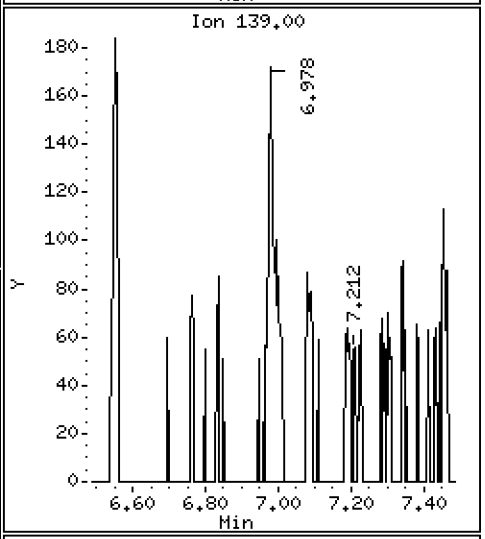
12 Dibenzofuran

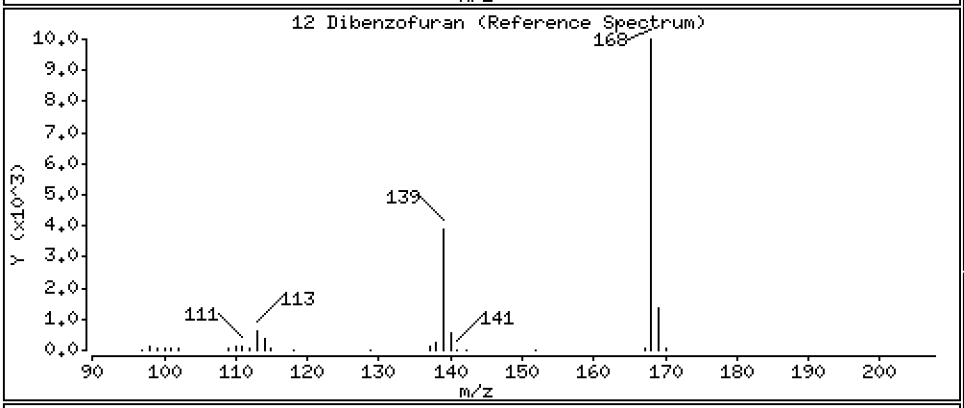
Concentration: 0.04899 ug/mL

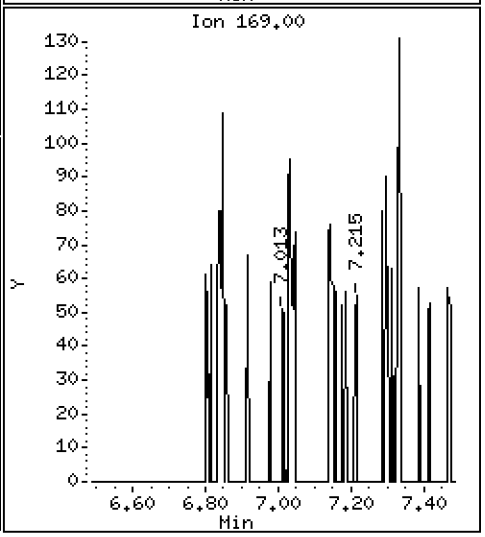


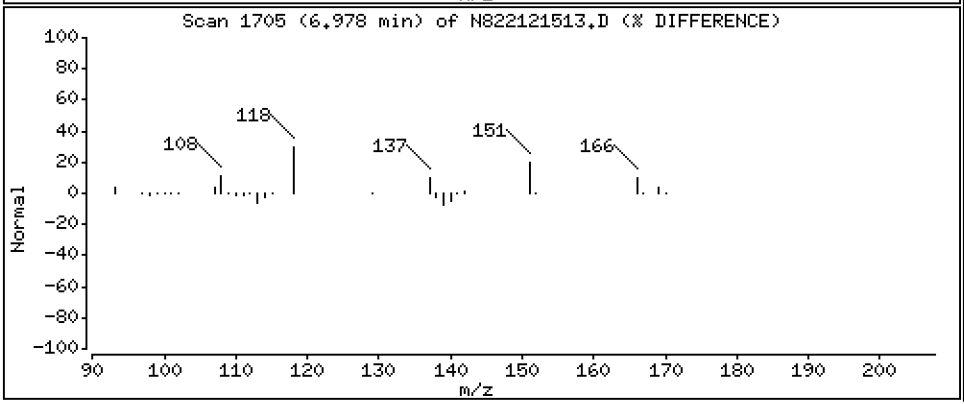












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121513.D

Date : 15-DEC-2022 20:16

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-14,3

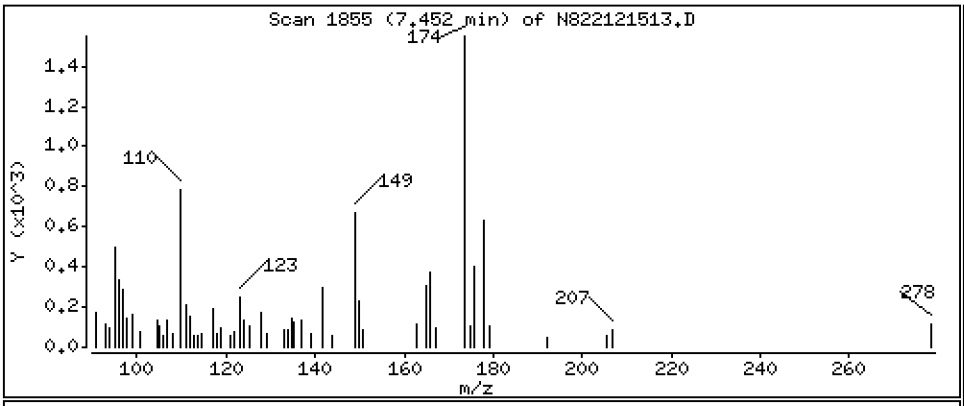
Operator: JZ

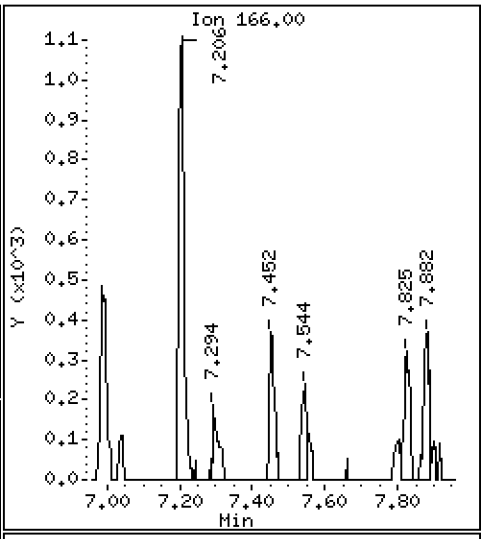
Column phase: Rxi-17sil

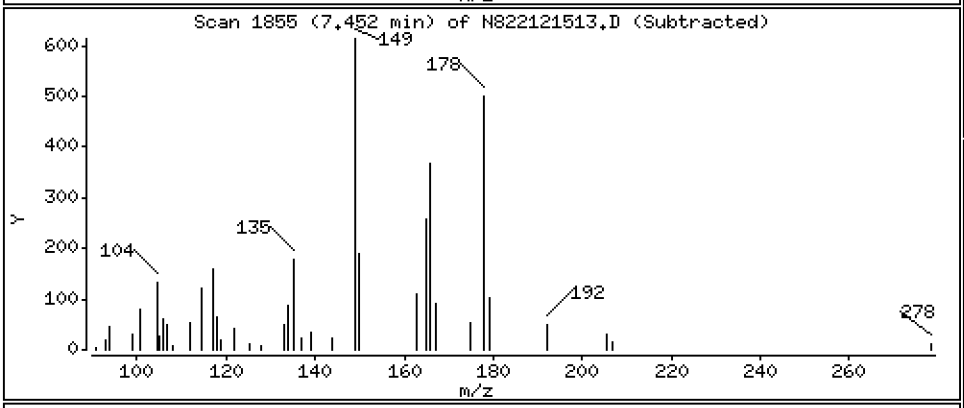
Column diameter: 0.25

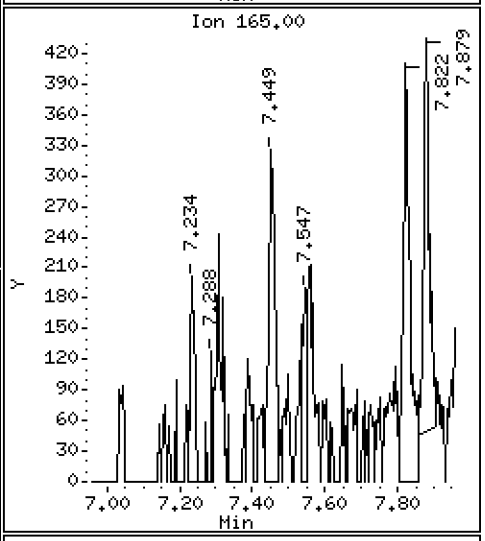
14 Fluorene

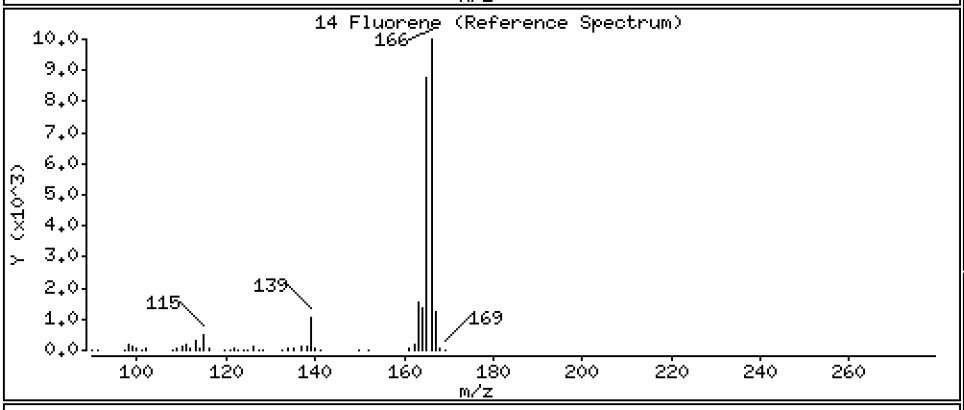
Concentration: 0.06300 ug/mL

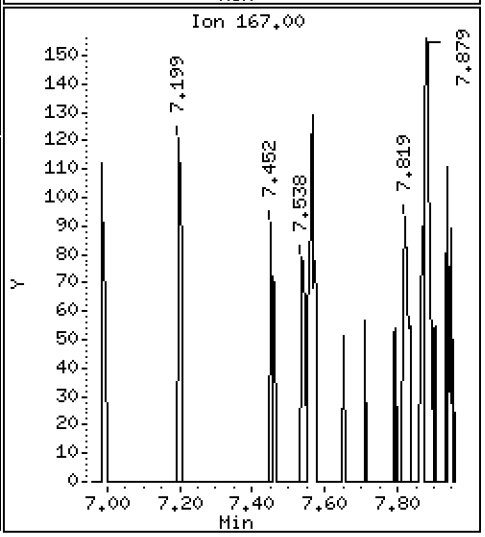


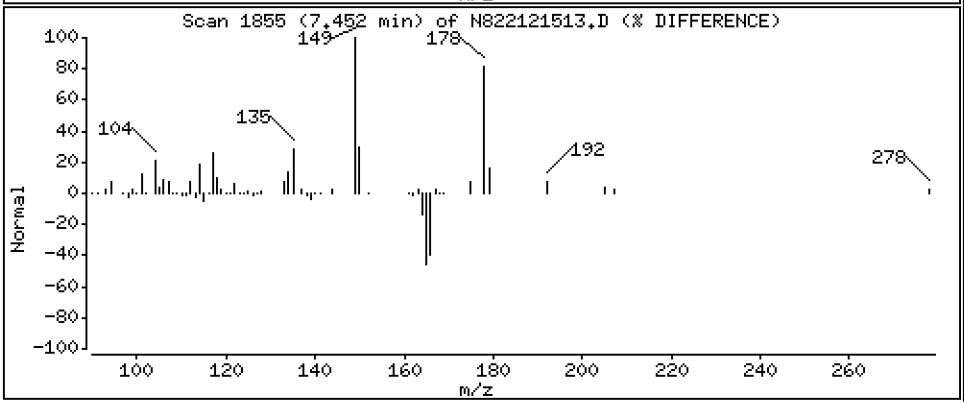












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121513.D

Date : 15-DEC-2022 20:16

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-14,3

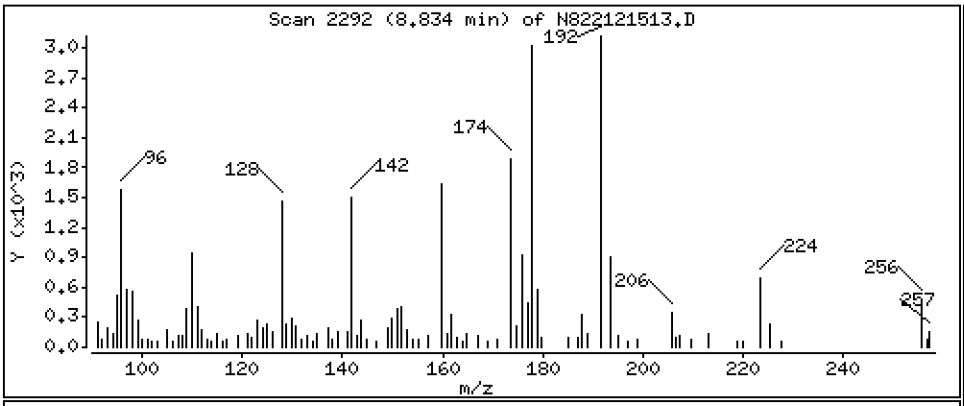
Operator: JZ

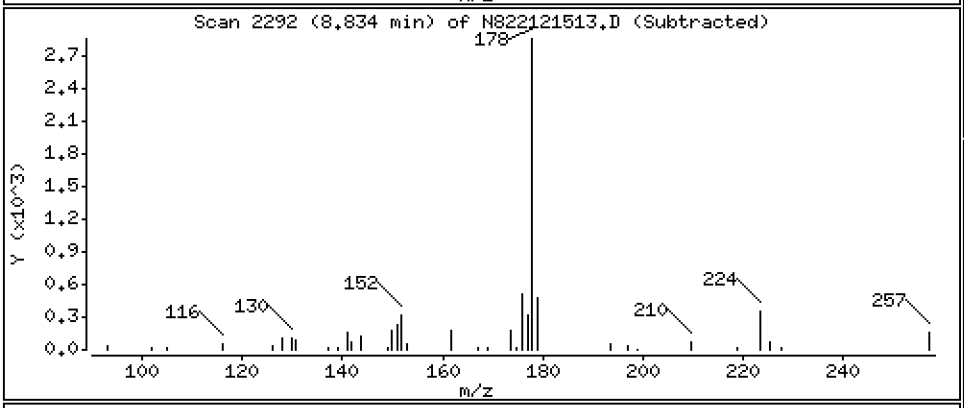
Column phase: Rxi-17sil

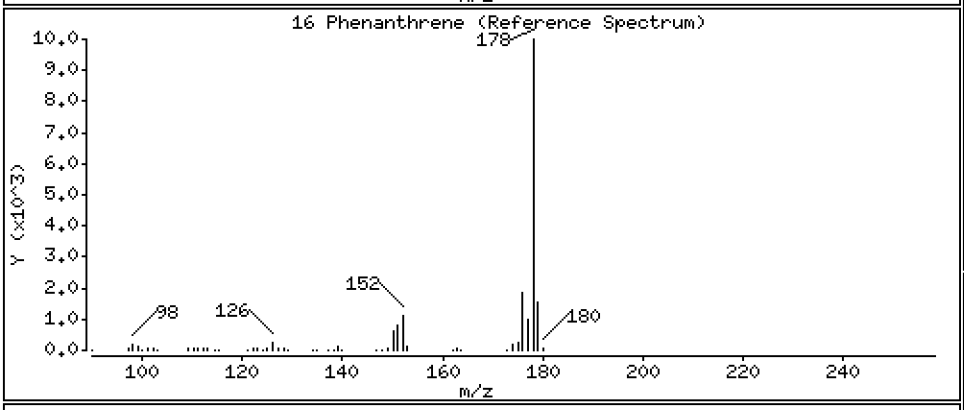
Column diameter: 0.25

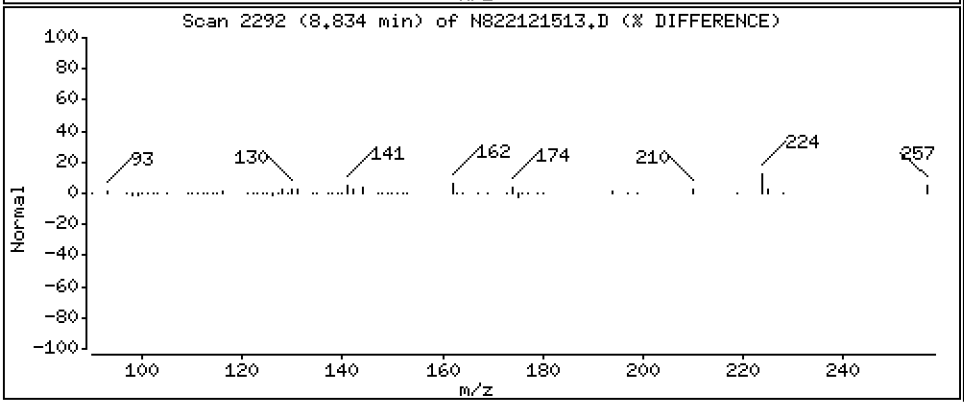
16 Phenanthrene

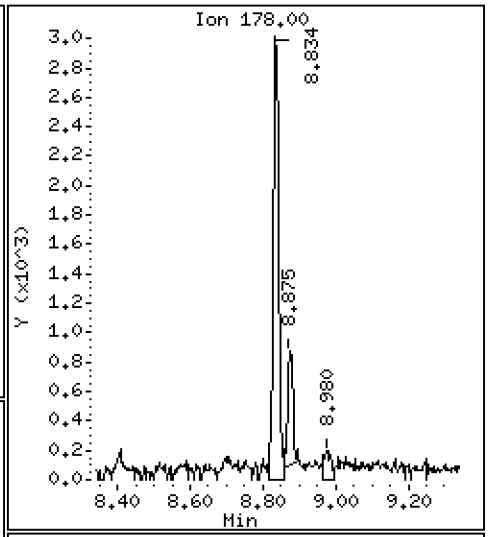
Concentration: 0.3389 ug/mL

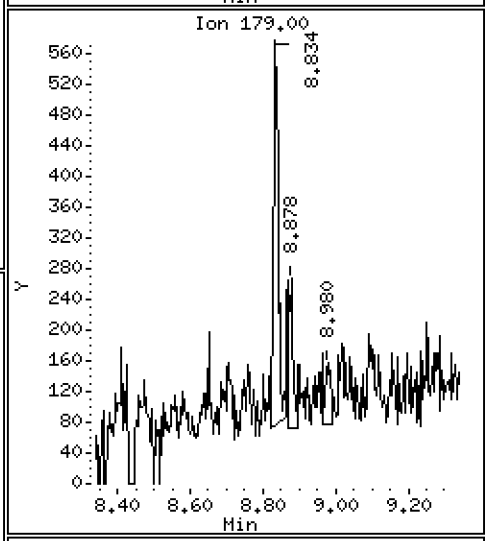


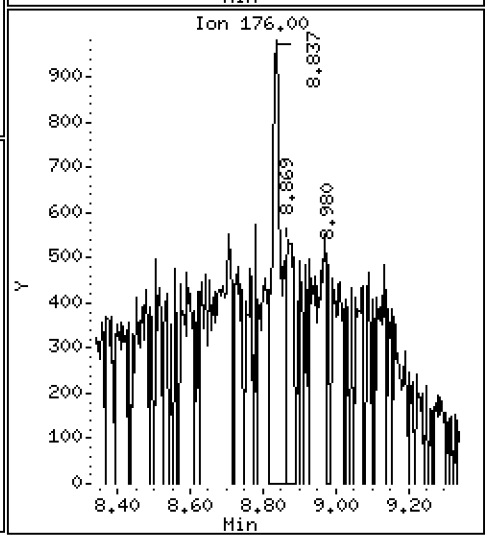












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Date : 15-DEC-2022 20:16

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-14,3

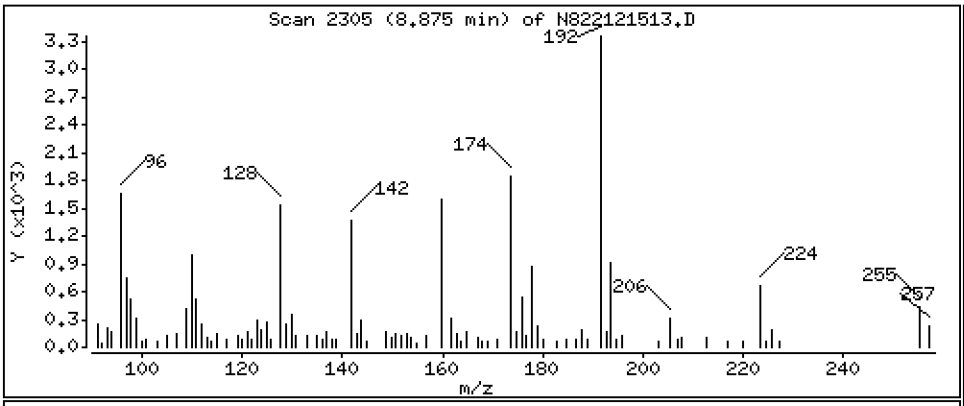
Operator: JZ

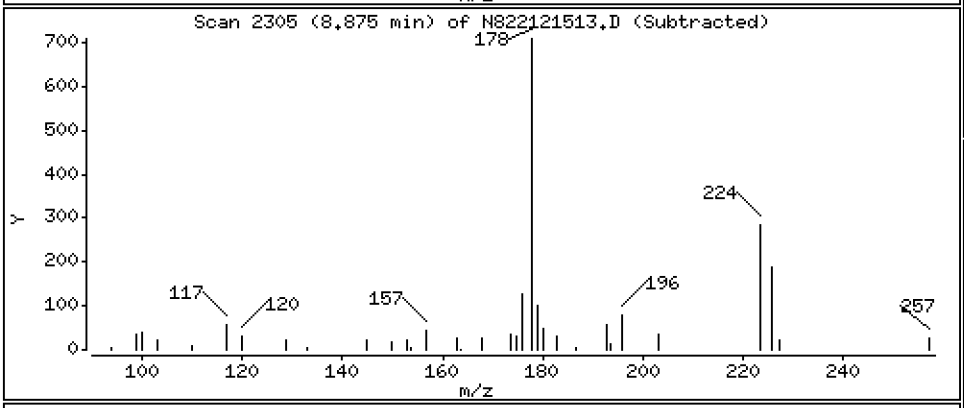
Column phase: Rxi-17sil

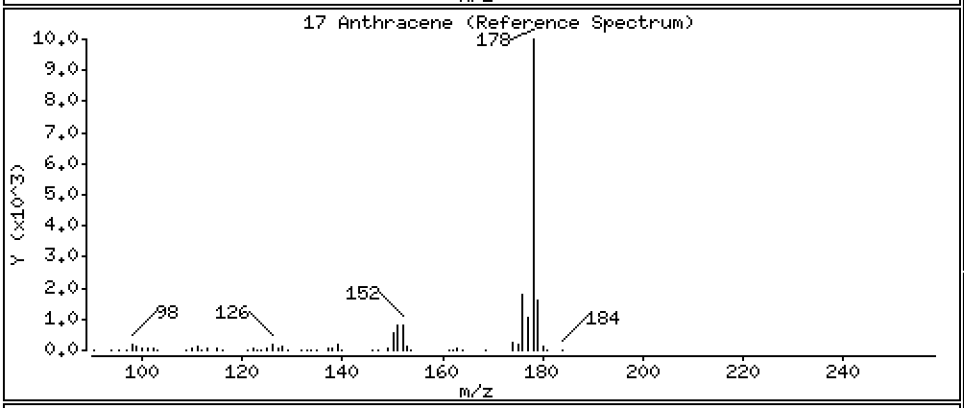
Column diameter: 0.25

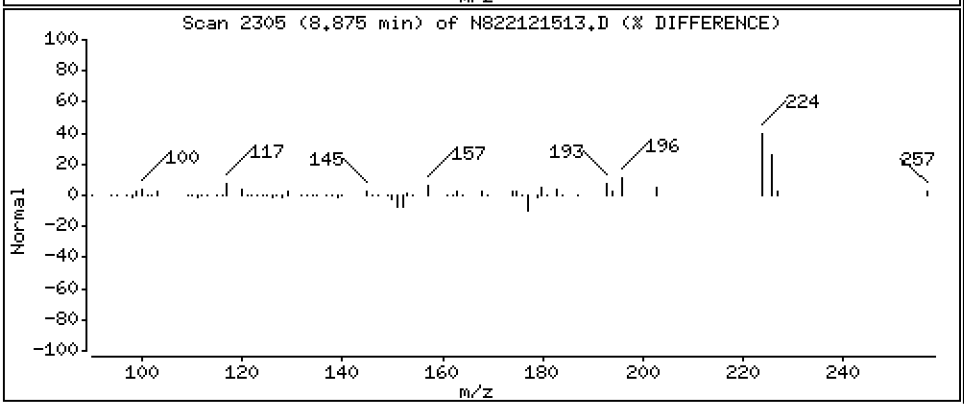
17 Anthracene

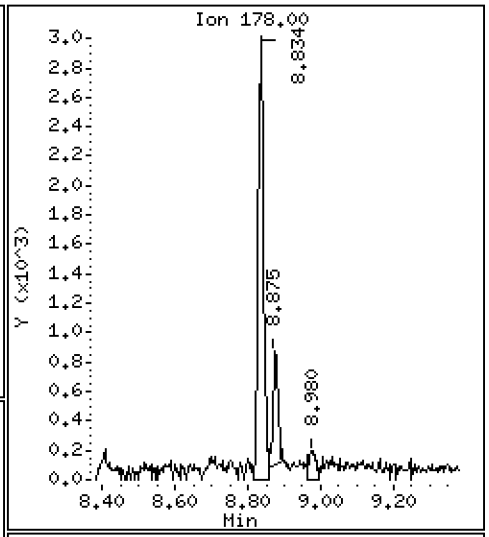
Concentration: 0.08663 ug/mL

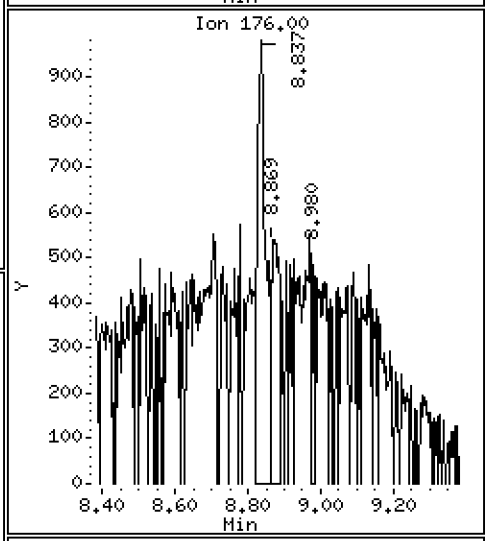


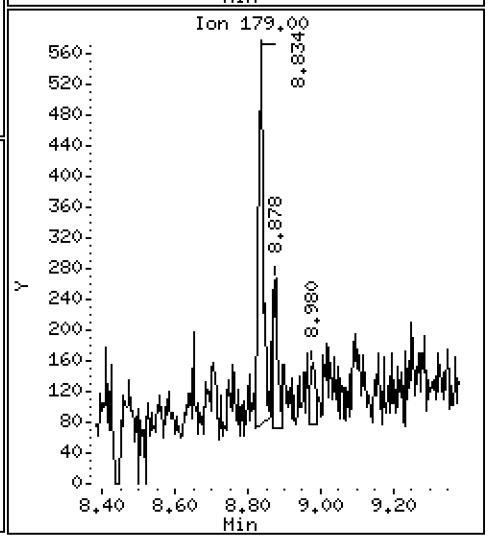












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121513.D

Date : 15-DEC-2022 20:16

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-14,3

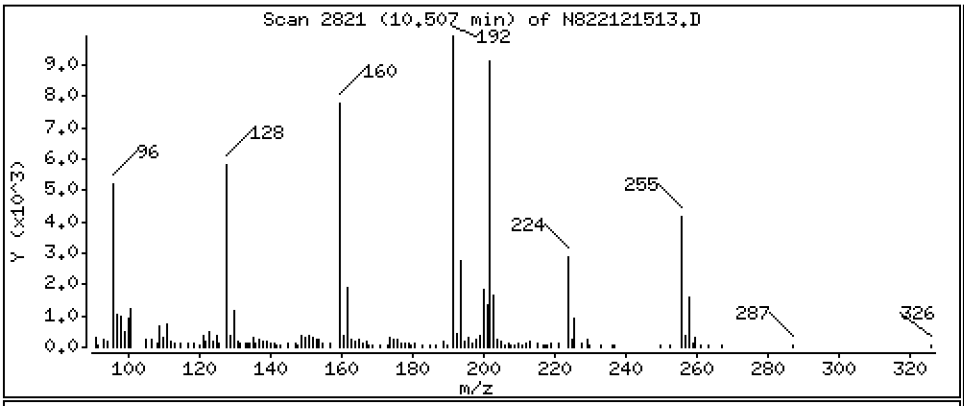
Operator: JZ

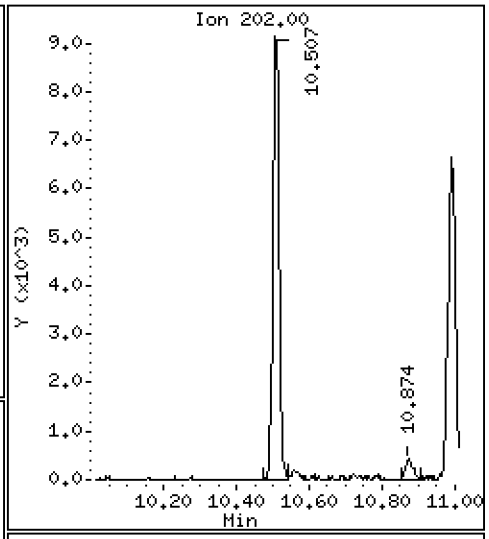
Column phase: Rxi-17sil

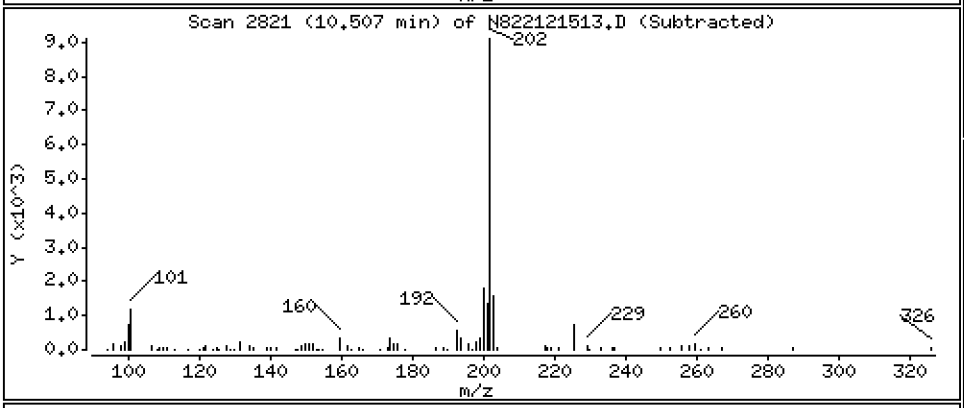
Column diameter: 0.25

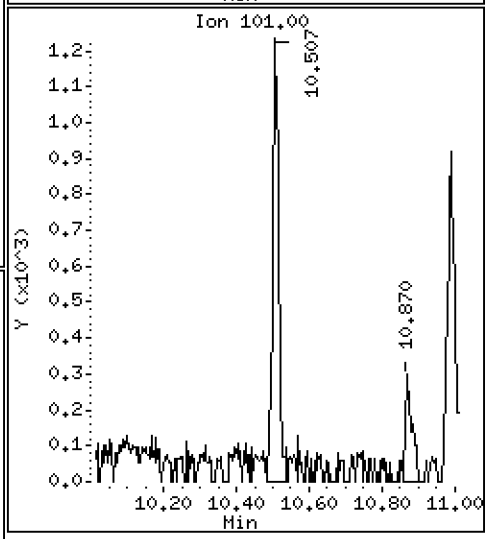
22 Fluoranthene

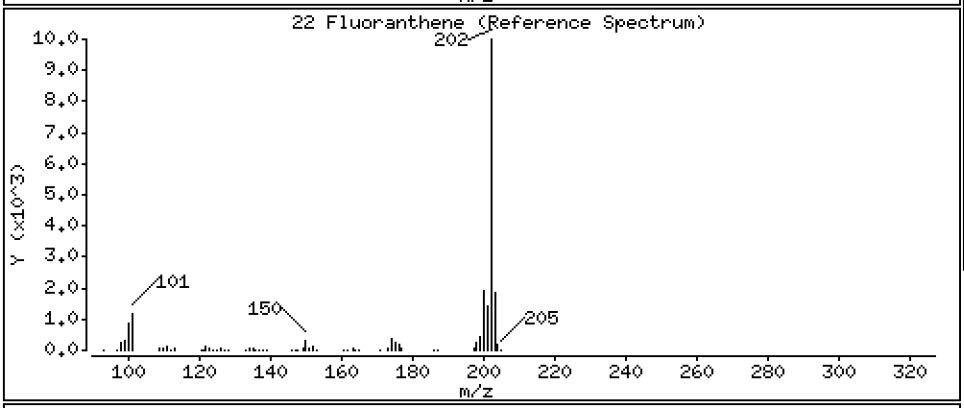
Concentration: 1.072 ug/mL

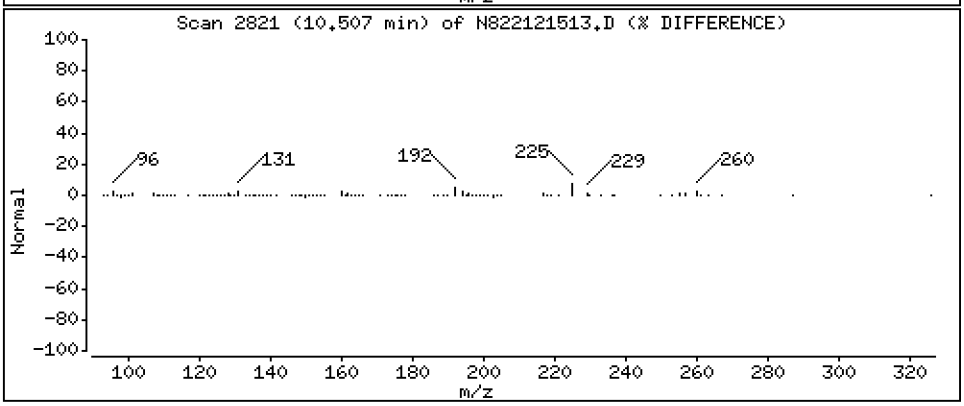












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121513.D

Date : 15-DEC-2022 20:16

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-14,3

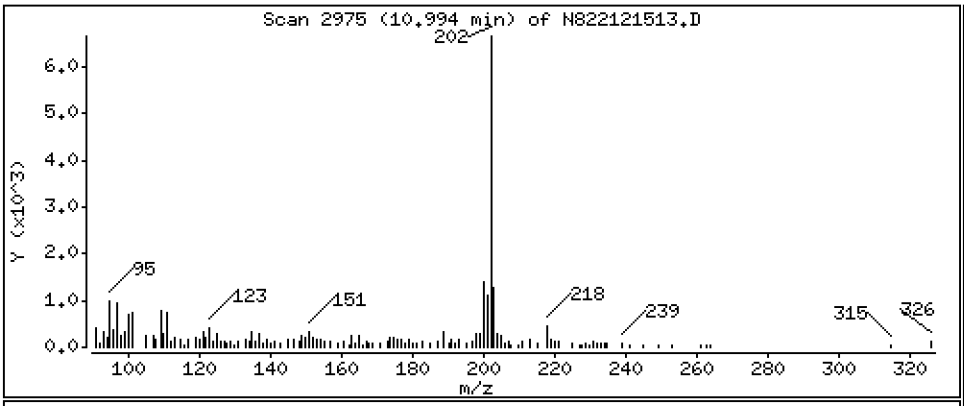
Operator: JZ

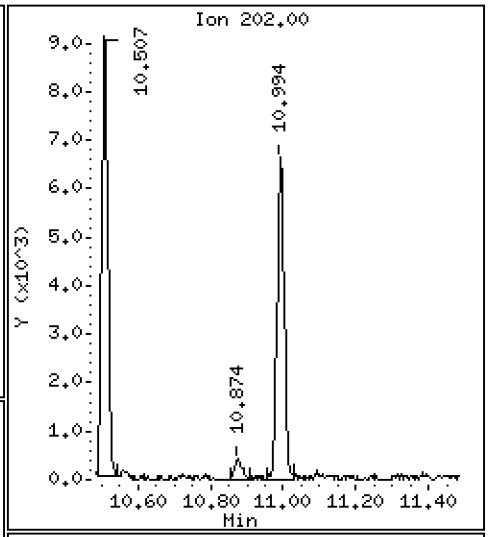
Column phase: Rxi-17sil

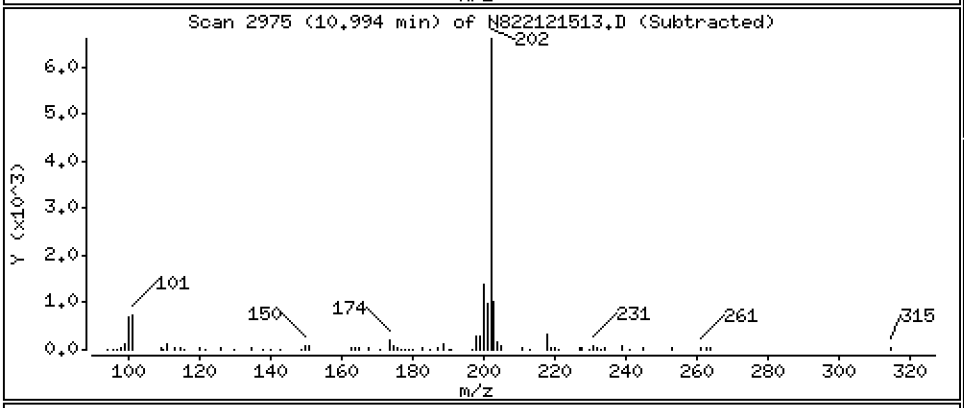
Column diameter: 0.25

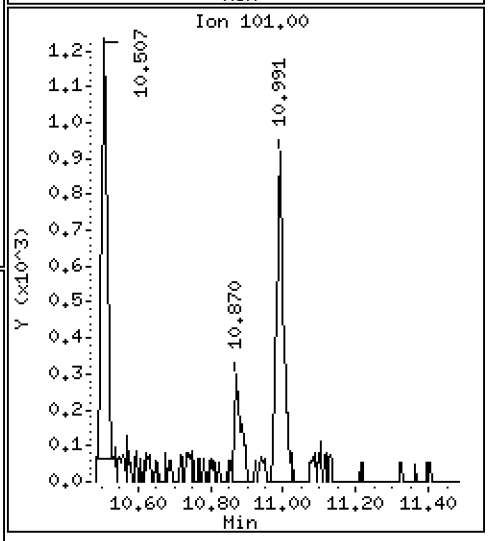
23 Pyrene

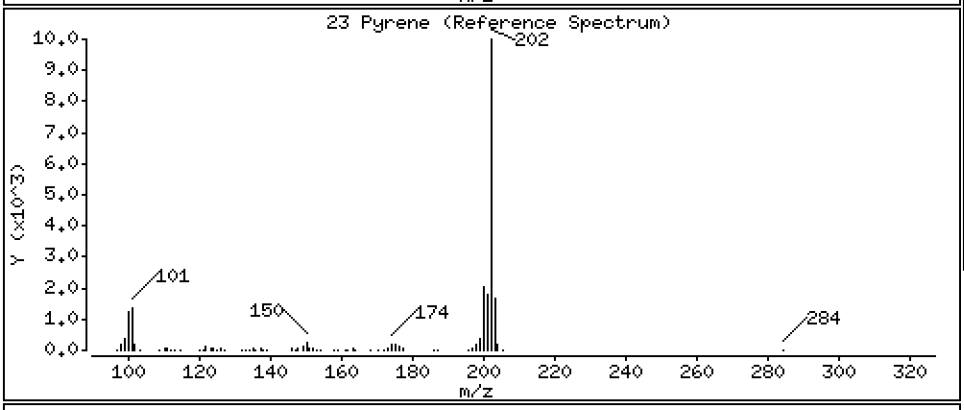
Concentration: 0.8917 ug/mL

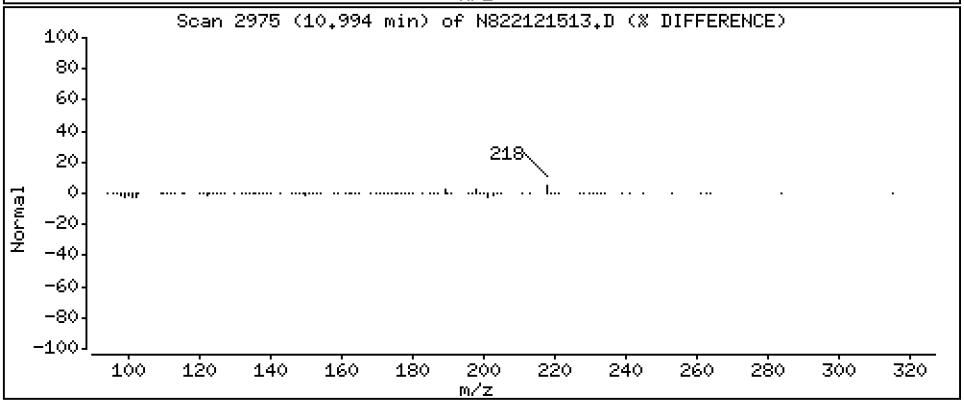












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121513.D

Date : 15-DEC-2022 20:16

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-14,3

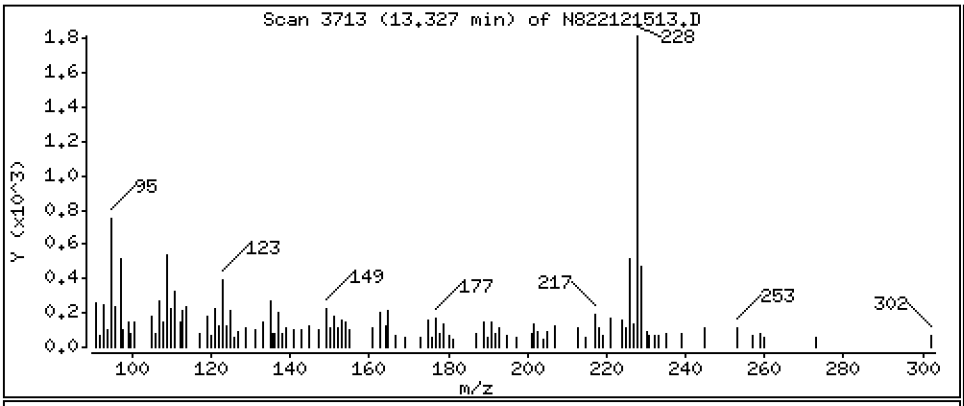
Operator: JZ

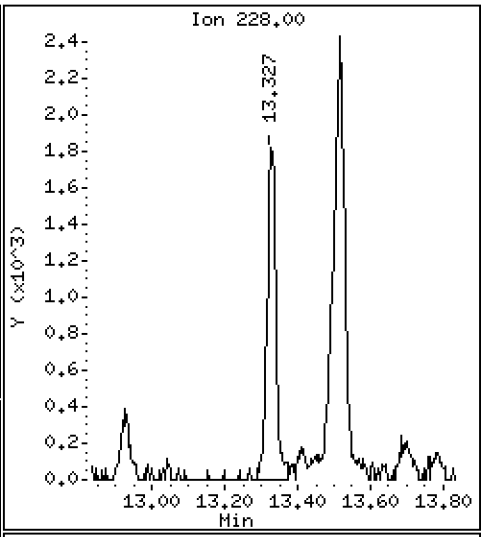
Column phase: Rxi-17sil

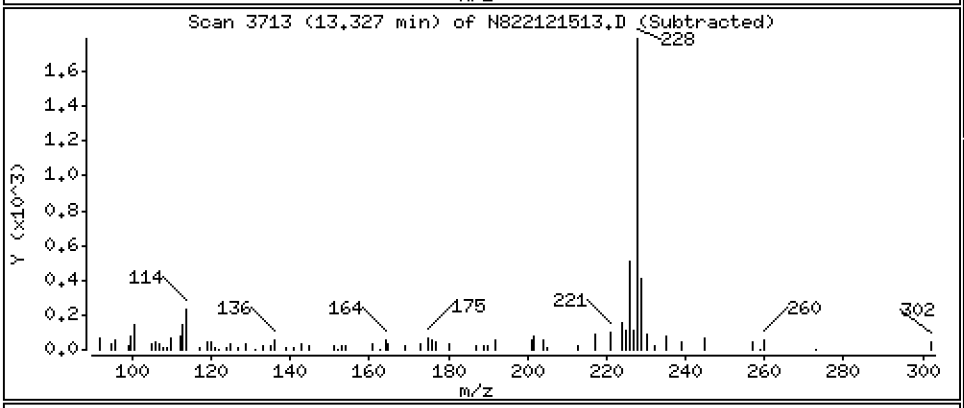
Column diameter: 0.25

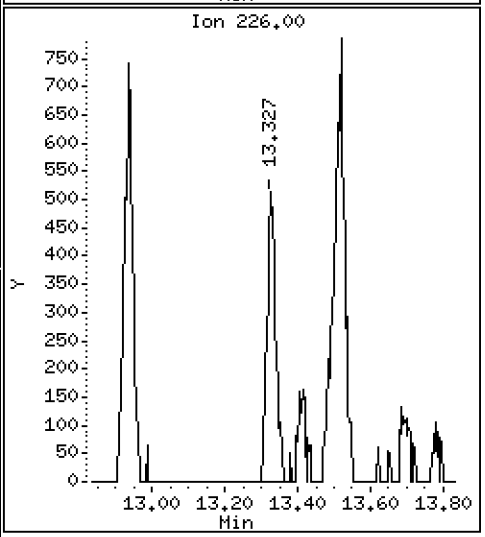
24 Benzo(a)anthracene

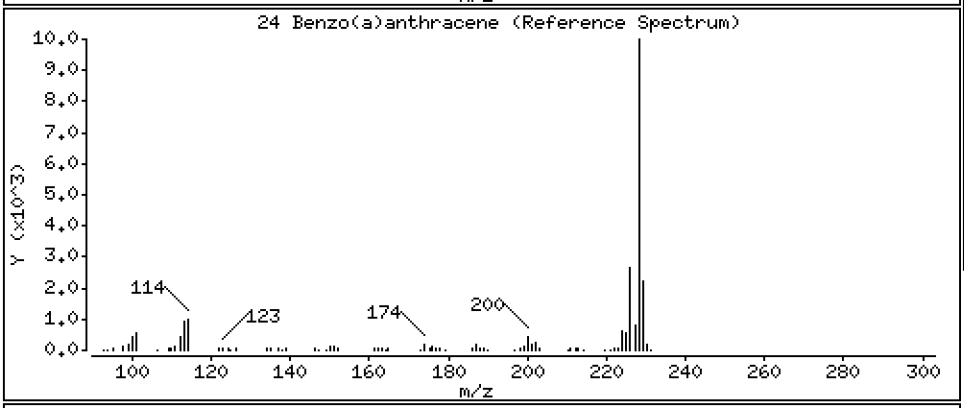
Concentration: 0.3198 ug/mL

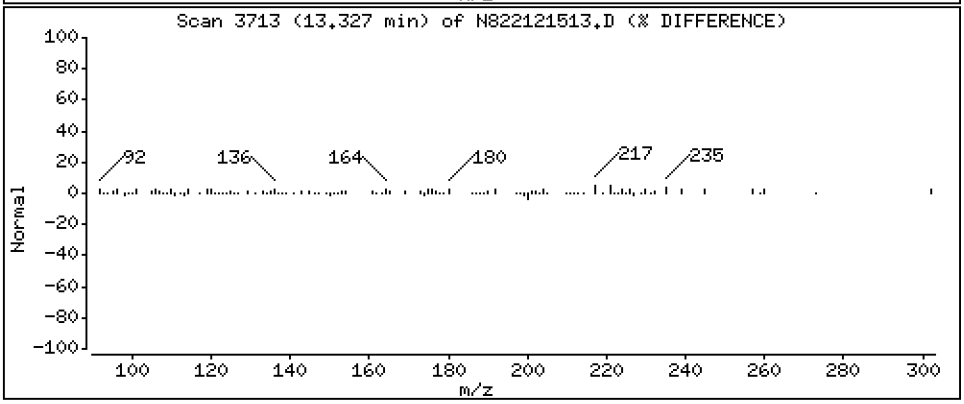












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121513.D

Date : 15-DEC-2022 20:16

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-14,3

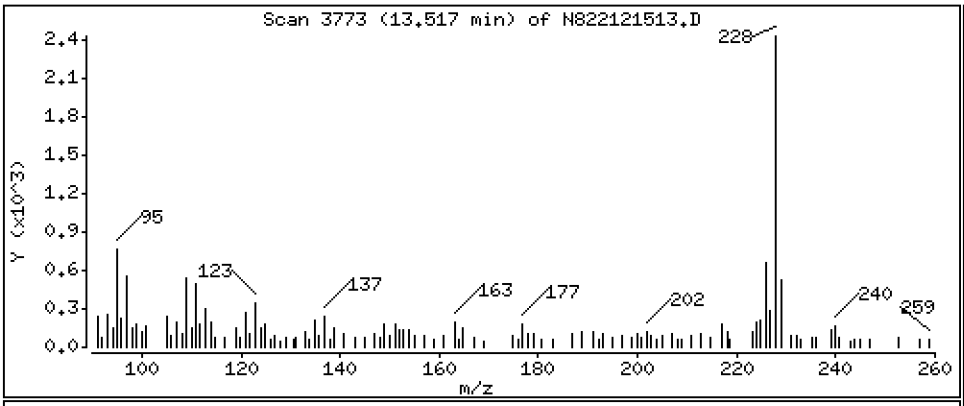
Operator: JZ

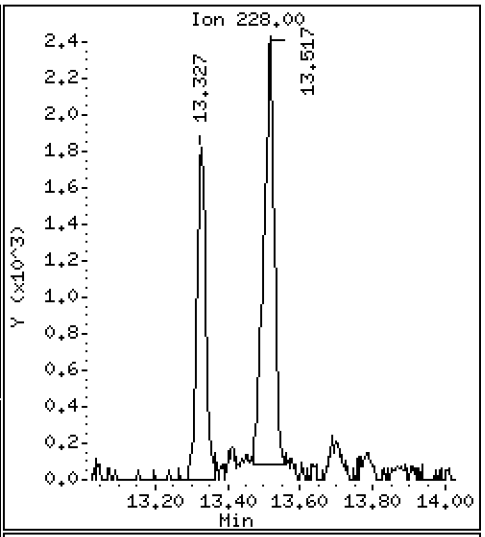
Column phase: Rxi-17sil

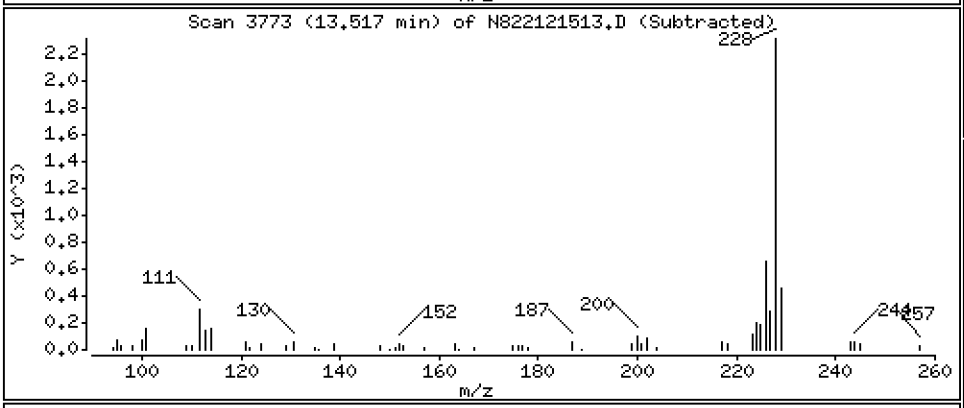
Column diameter: 0.25

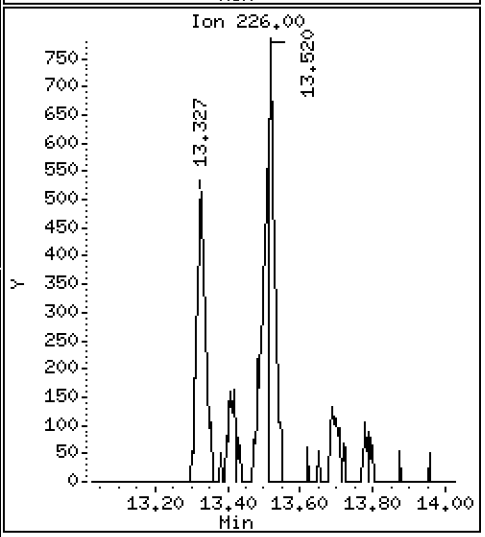
27 Chrysene

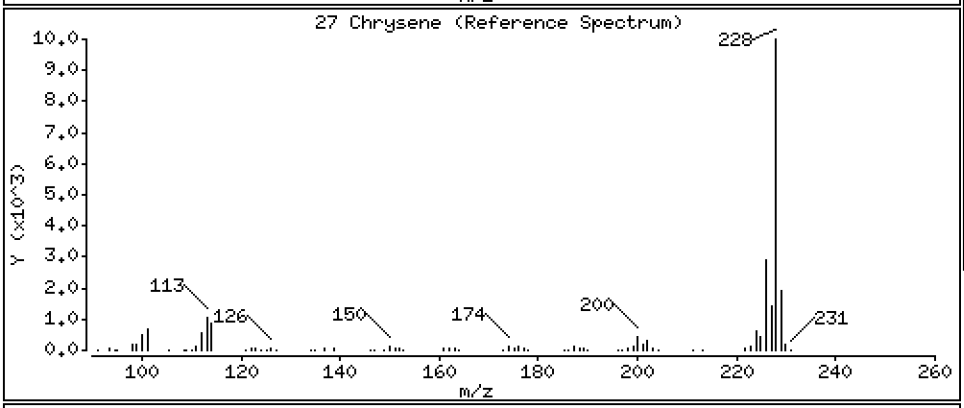
Concentration: 0.5059 ug/mL

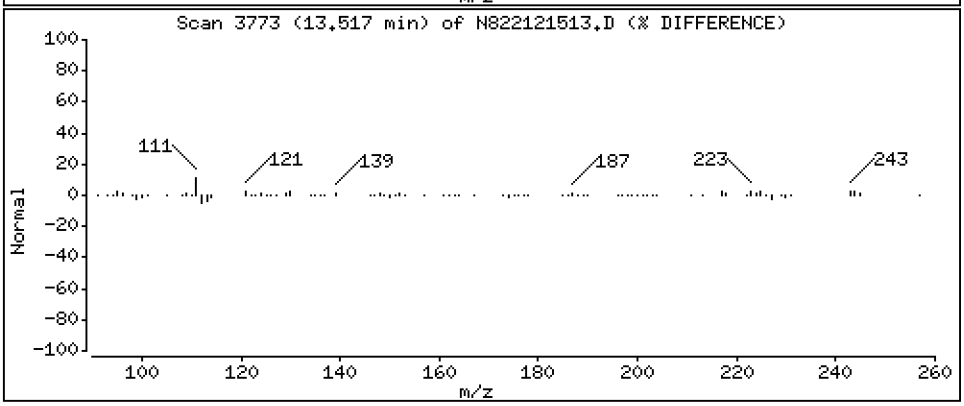












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121513.D

Date : 15-DEC-2022 20:16

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-14,3

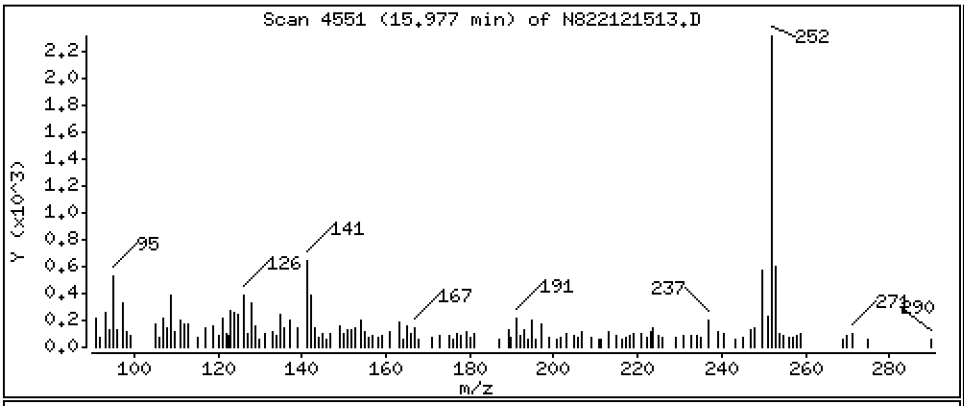
Operator: JZ

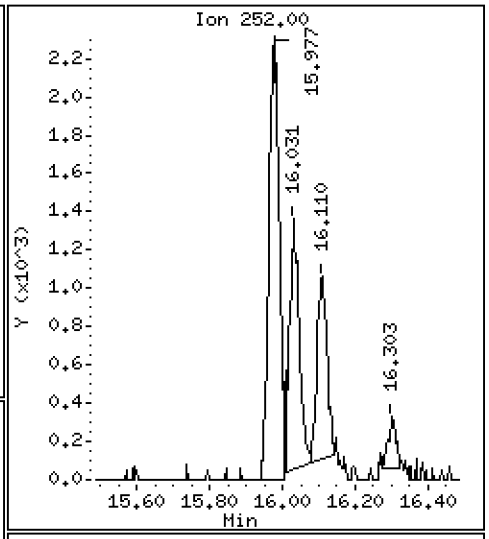
Column phase: Rxi-17sil

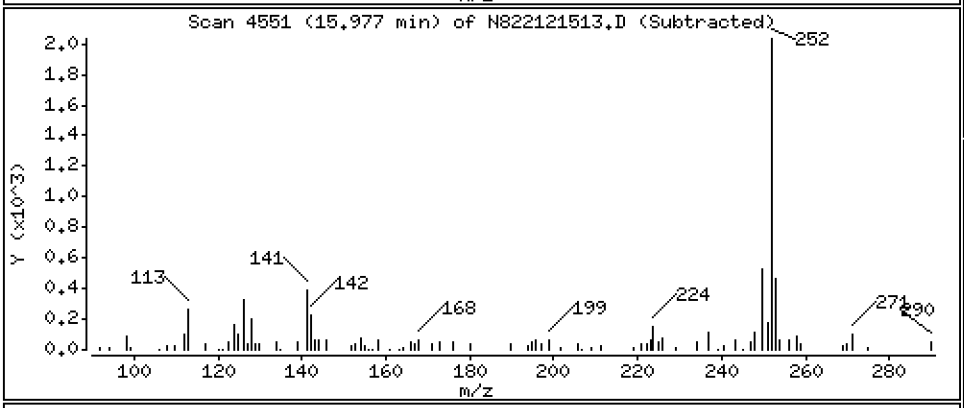
Column diameter: 0.25

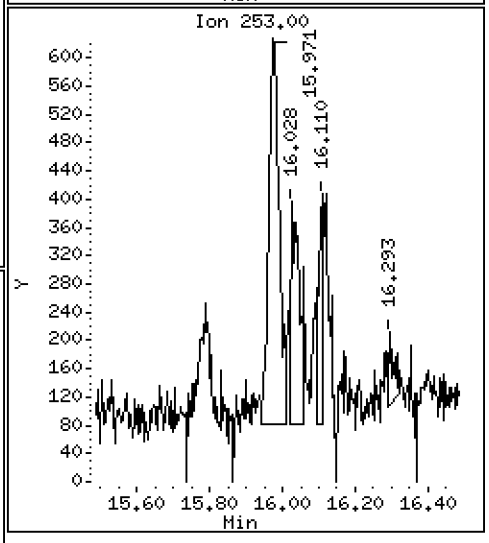
28 Benzo(b)fluoranthene

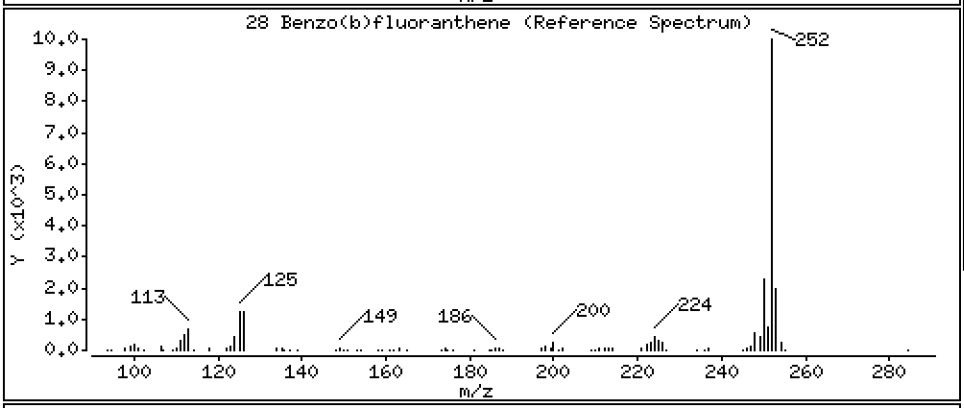
Concentration: 0.3998 ug/mL

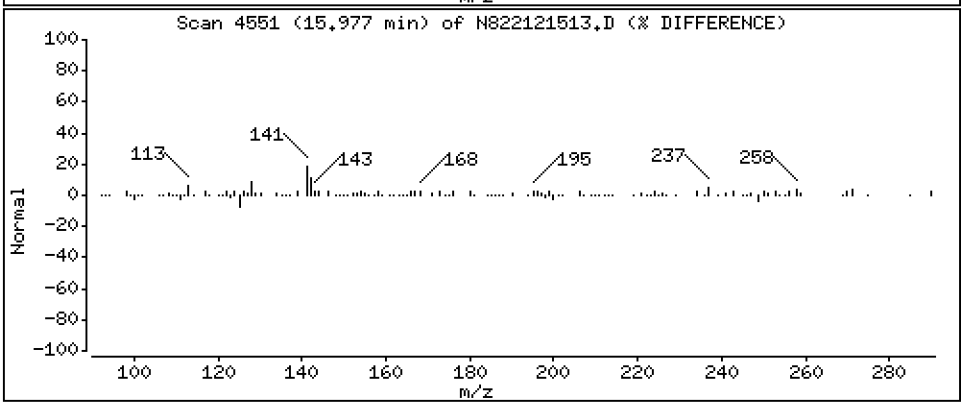












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121513.D

Date : 15-DEC-2022 20:16

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-14,3

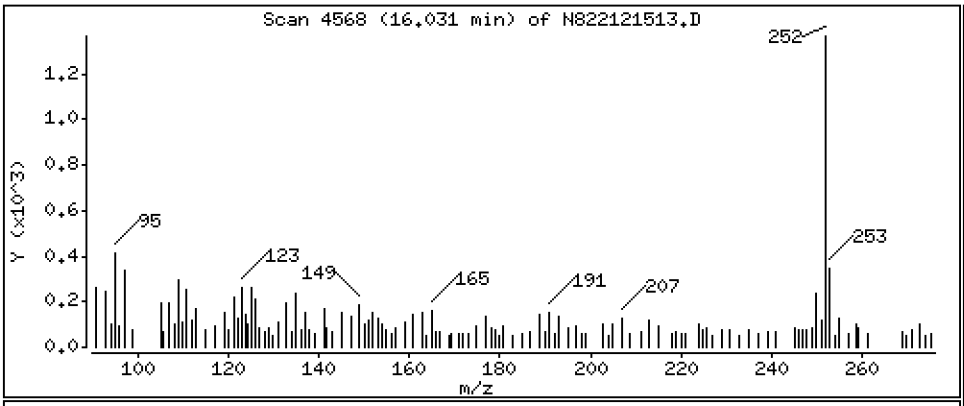
Operator: JZ

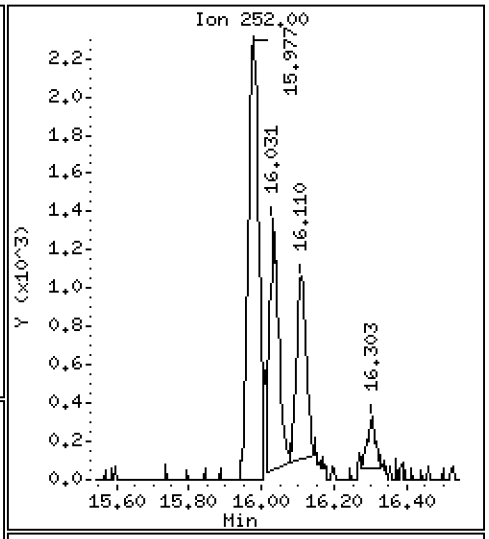
Column phase: Rxi-17sil

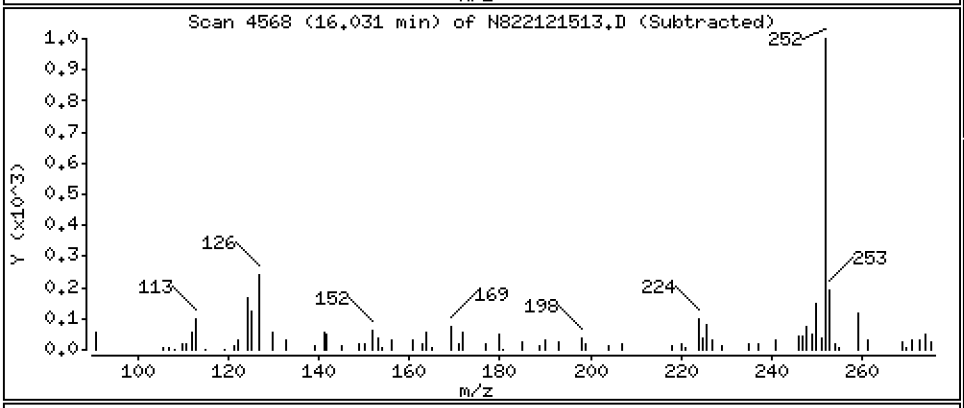
Column diameter: 0.25

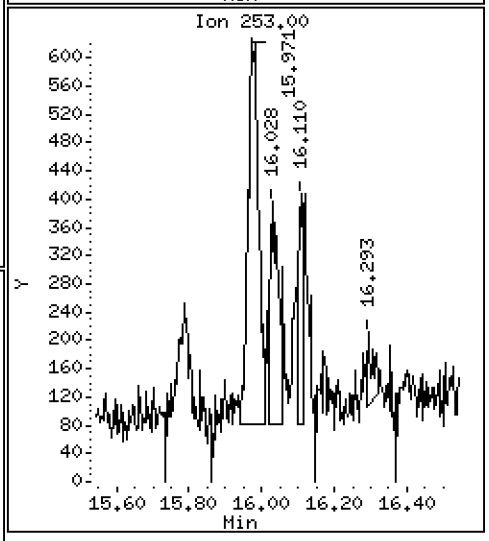
29 Benzo(k)fluoranthene

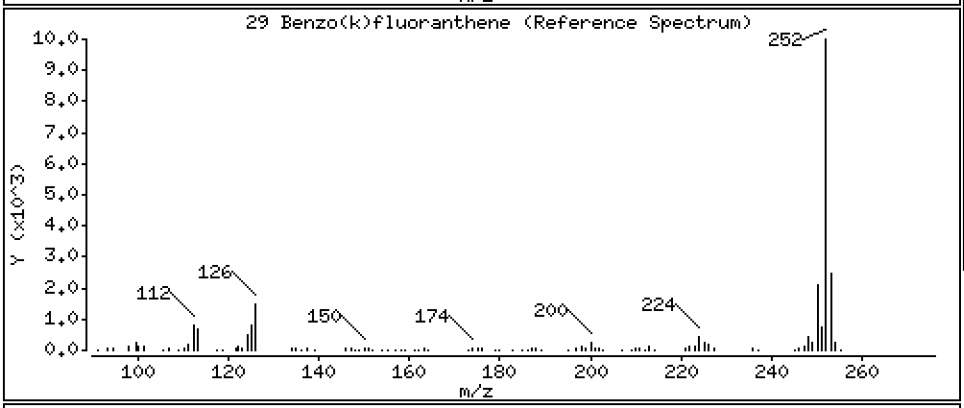
Concentration: 0.2163 ug/mL

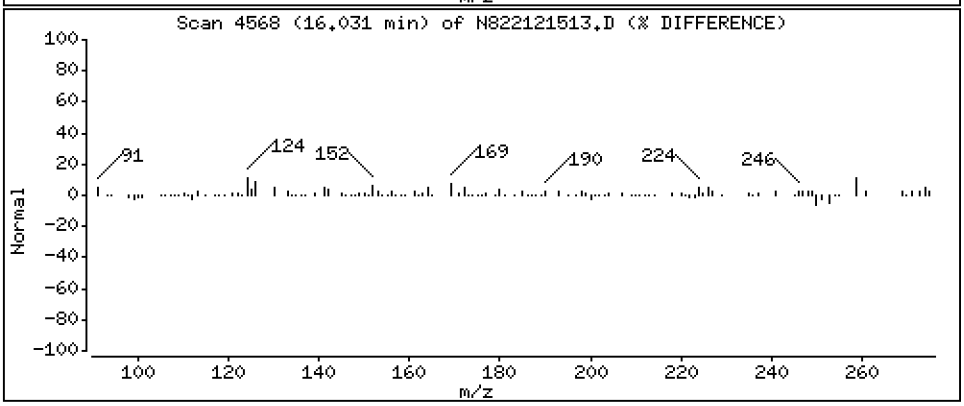












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121513.D

Date : 15-DEC-2022 20:16

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-14,3

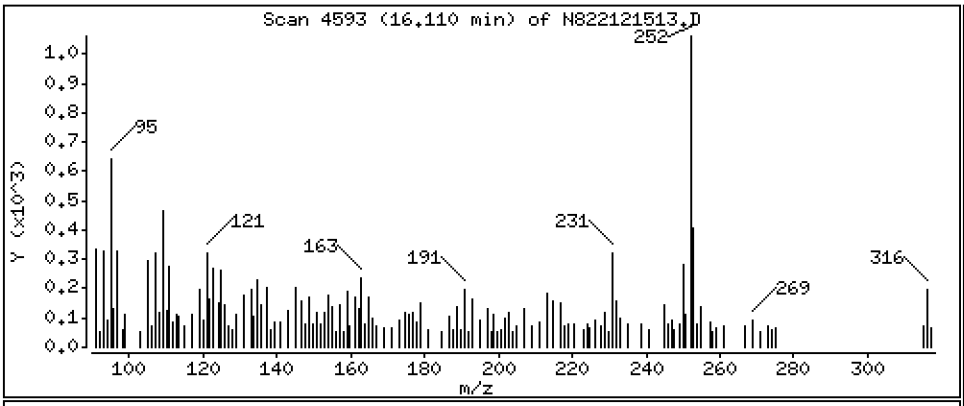
Operator: JZ

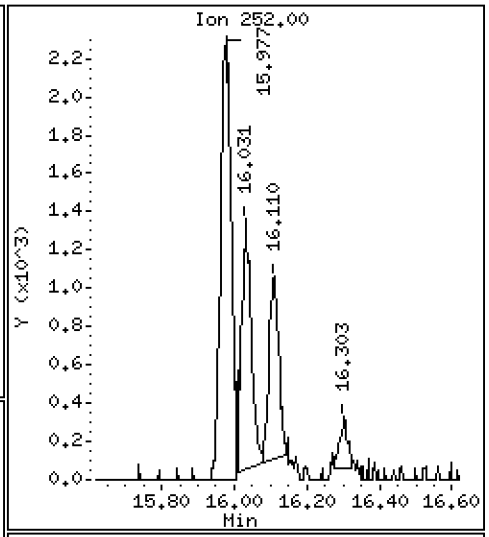
Column phase: Rxi-17sil

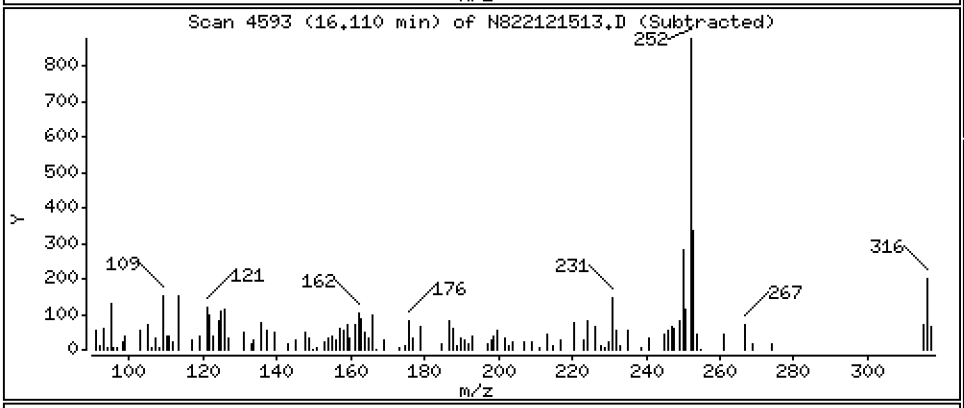
Column diameter: 0.25

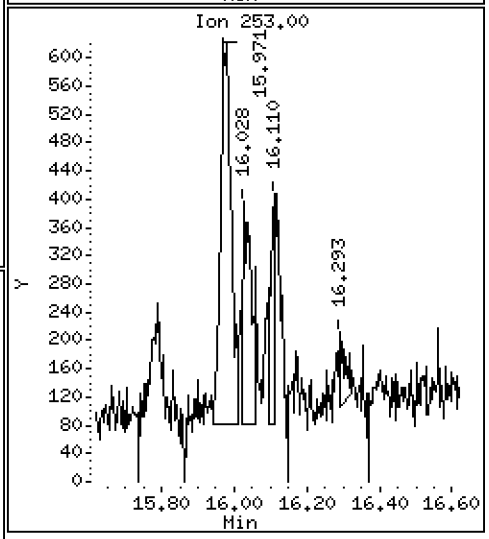
30 Benzo(j)fluoranthene

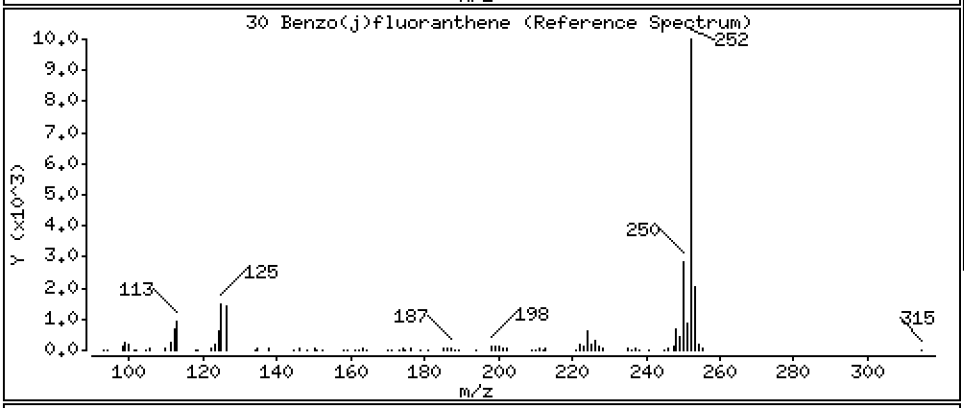
Concentration: 0.1821 ug/mL

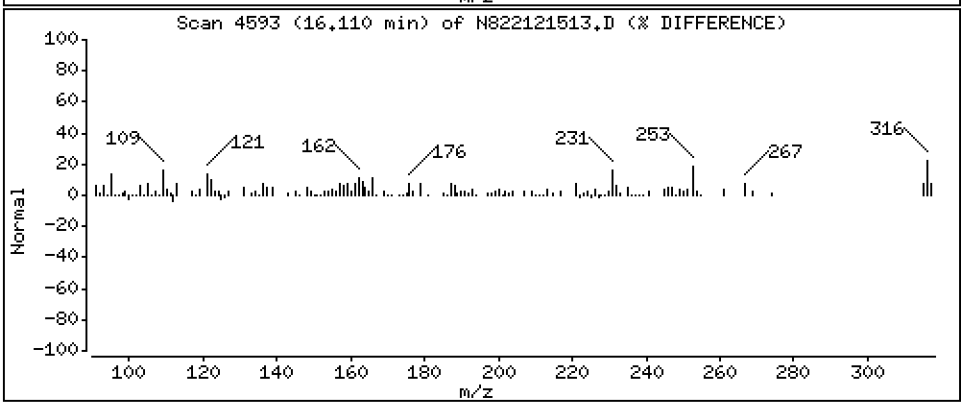












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121513.D

Date : 15-DEC-2022 20:16

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-14,3

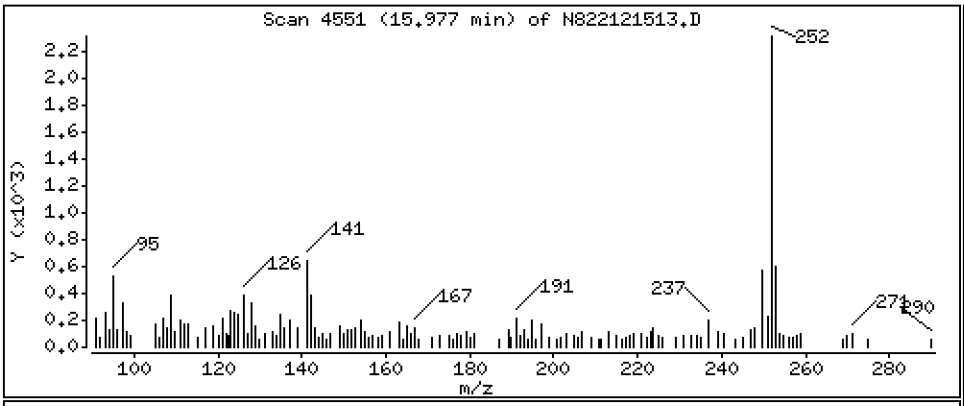
Operator: JZ

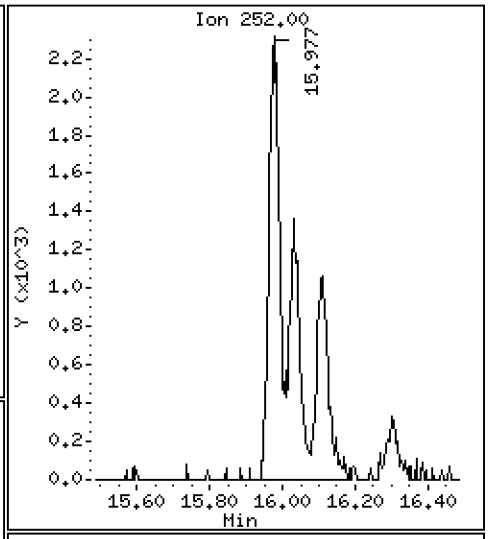
Column phase: Rxi-17sil

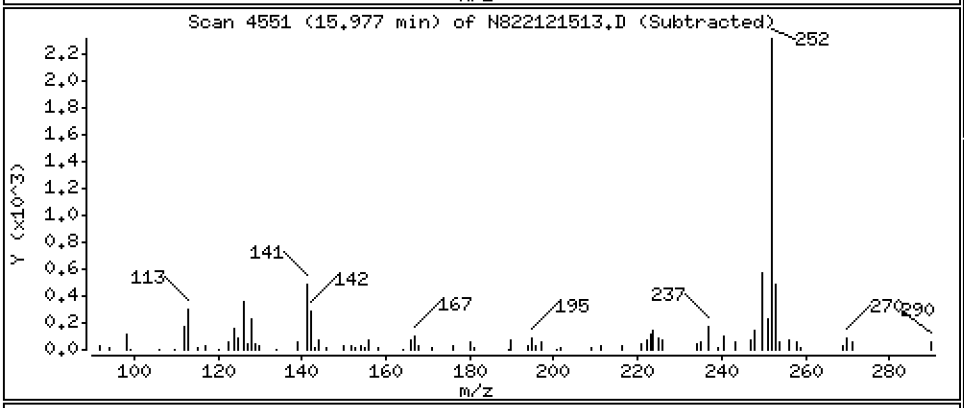
Column diameter: 0.25

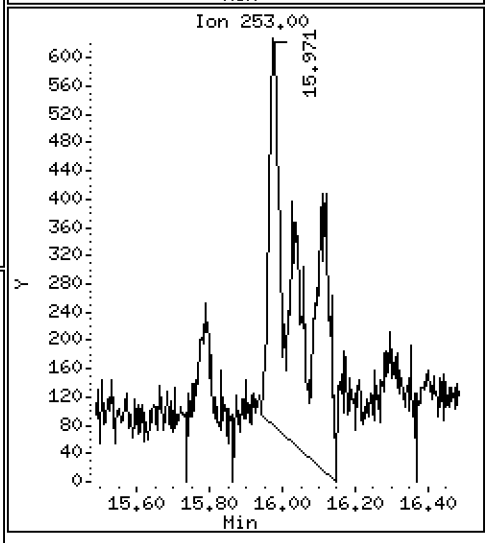
31 Total Benzofluoranthenes

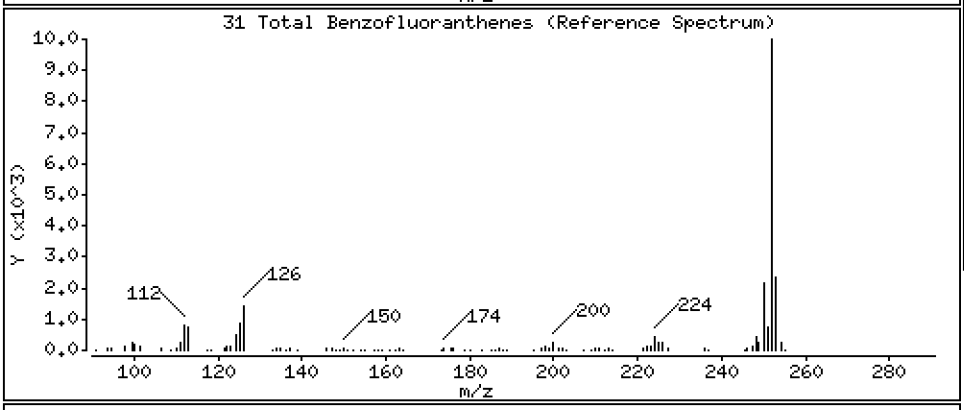
Concentration: 0.9089 ug/mL

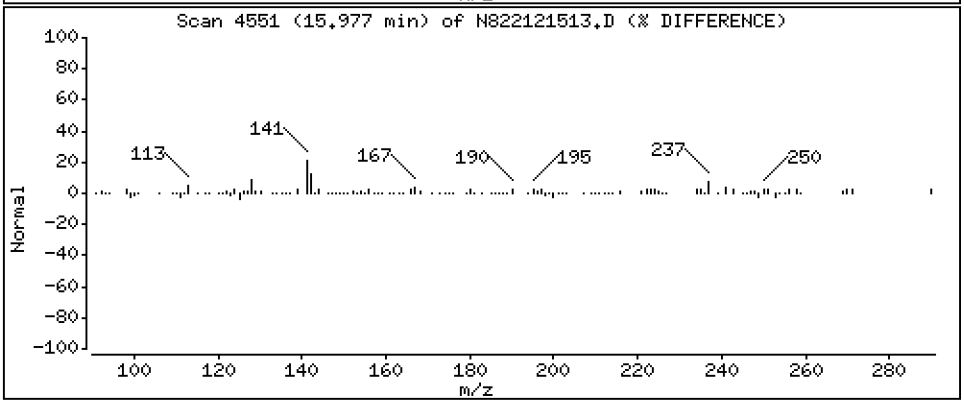












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121513.D

Date : 15-DEC-2022 20:16

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-14,3

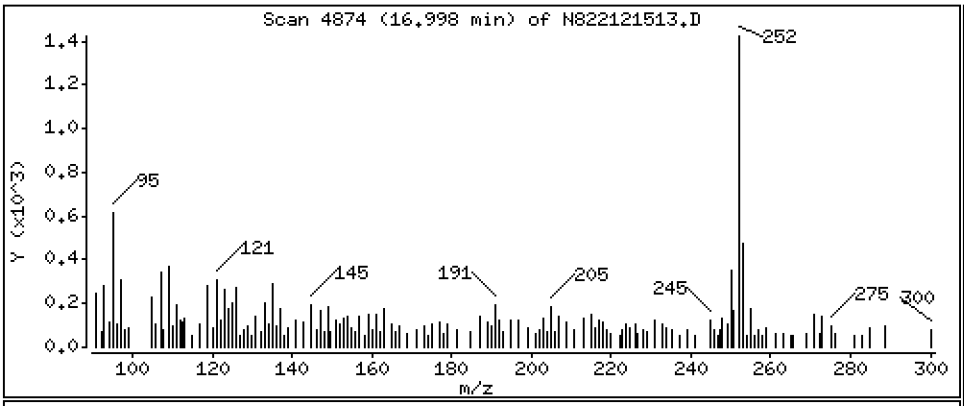
Operator: JZ

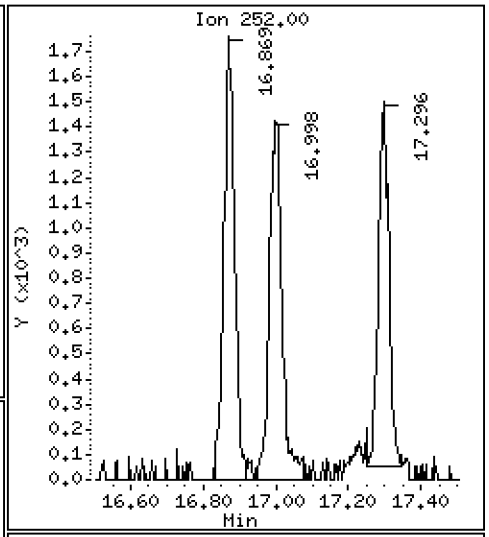
Column phase: Rxi-17sil

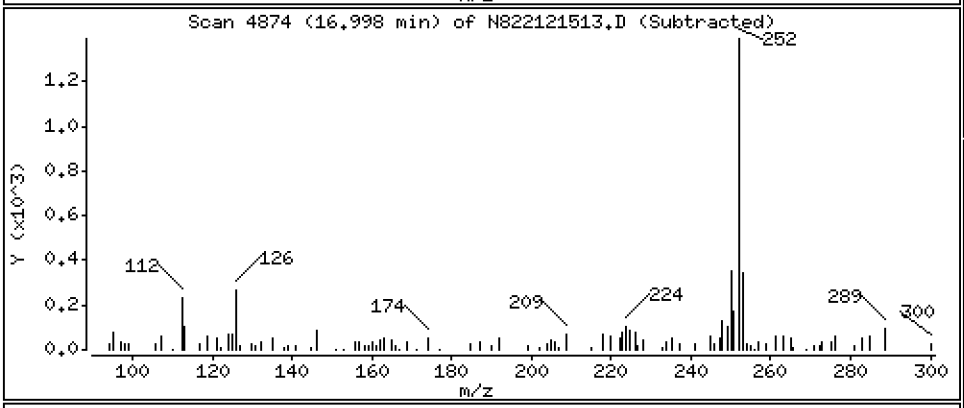
Column diameter: 0.25

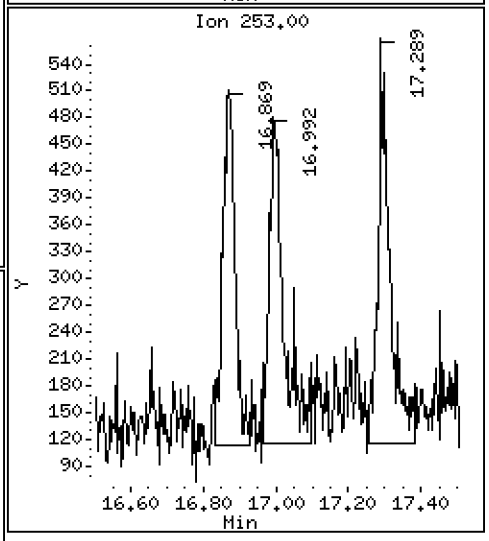
32 Benzo(a)pyrene

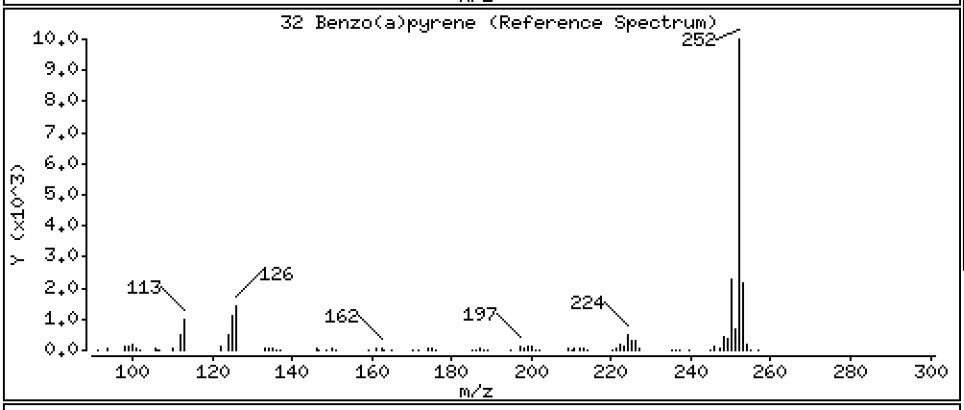
Concentration: 0.3618 ug/mL

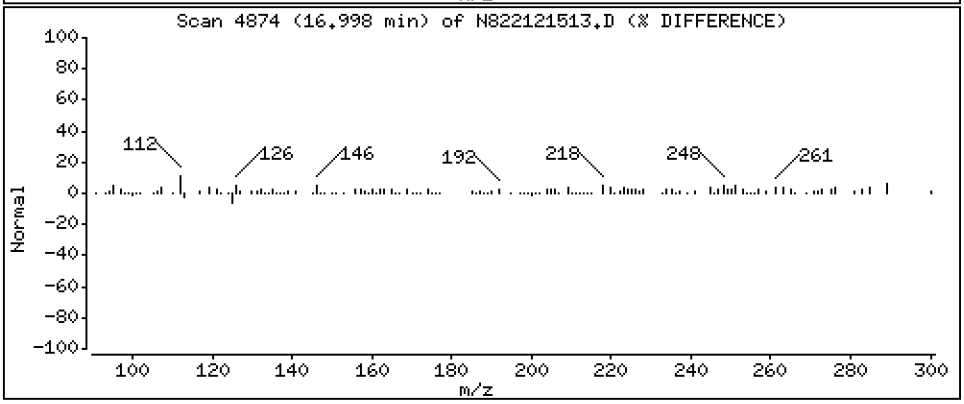












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121513.D

Date : 15-DEC-2022 20:16

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-14,3

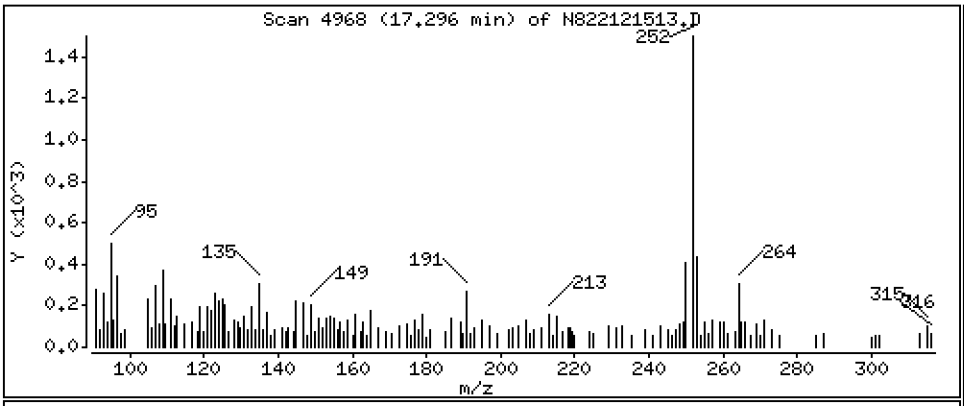
Operator: JZ

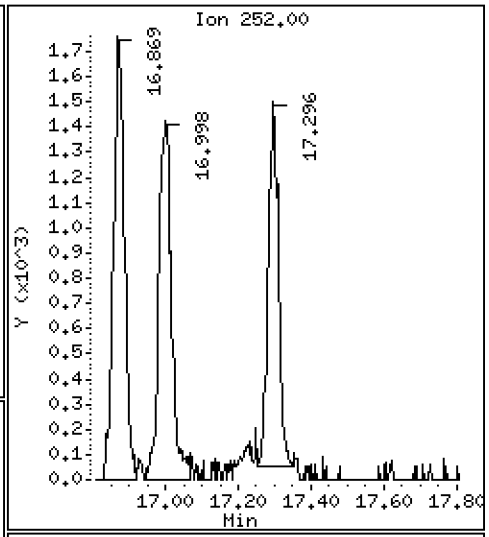
Column phase: Rxi-17sil

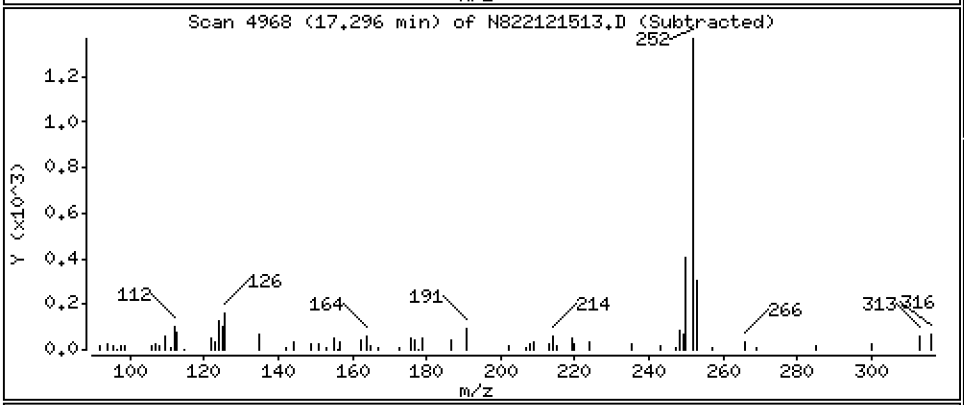
Column diameter: 0.25

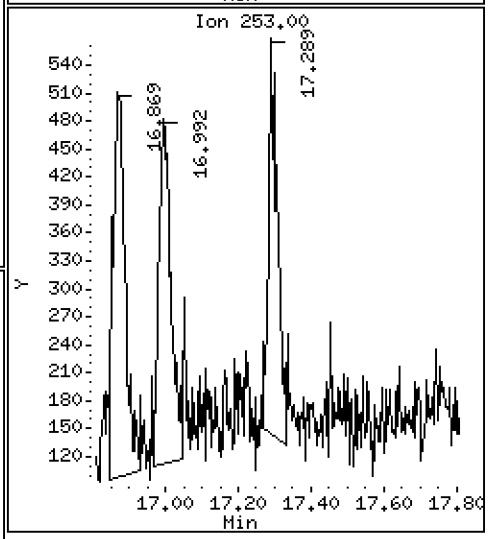
35 Perylene

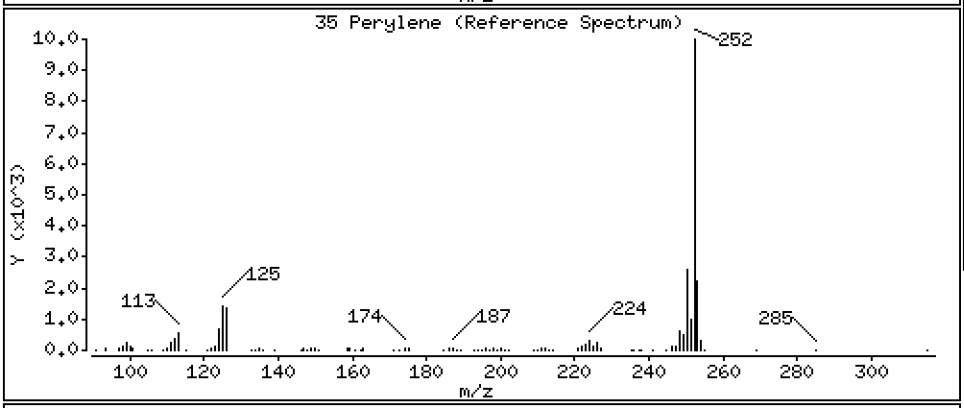
Concentration: 0.2961 ug/mL

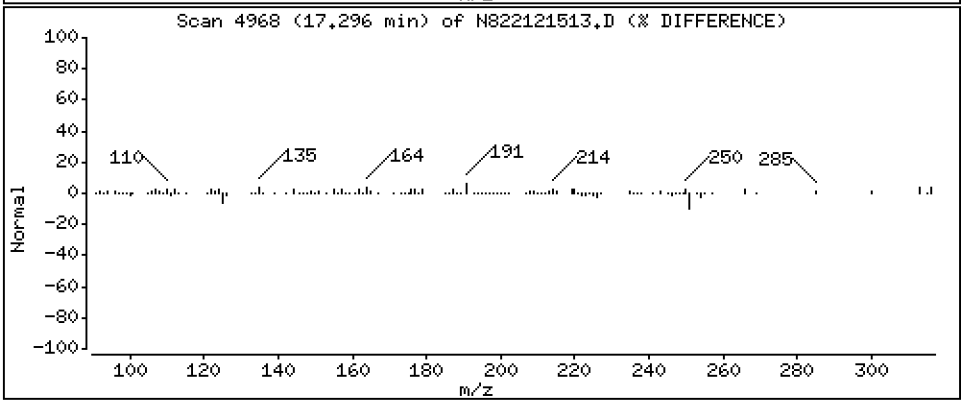












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121513.D

Date : 15-DEC-2022 20:16

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-14,3

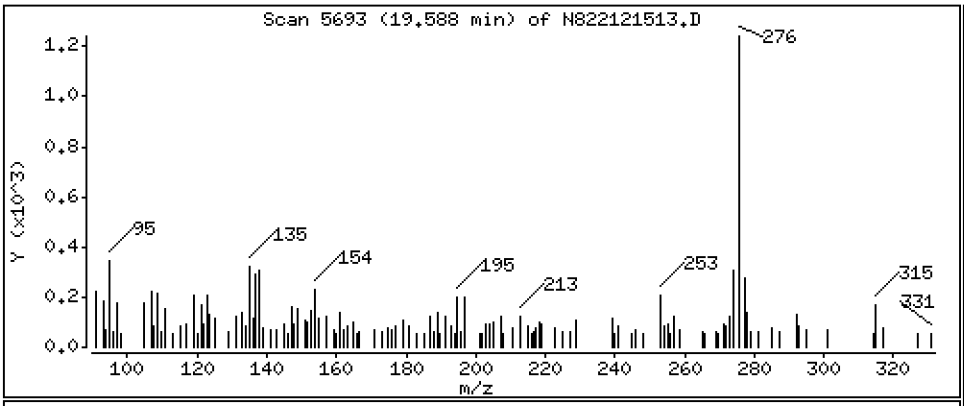
Operator: JZ

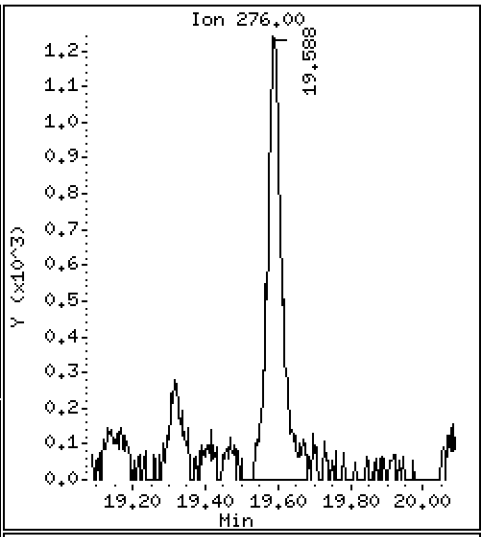
Column phase: Rxi-17sil

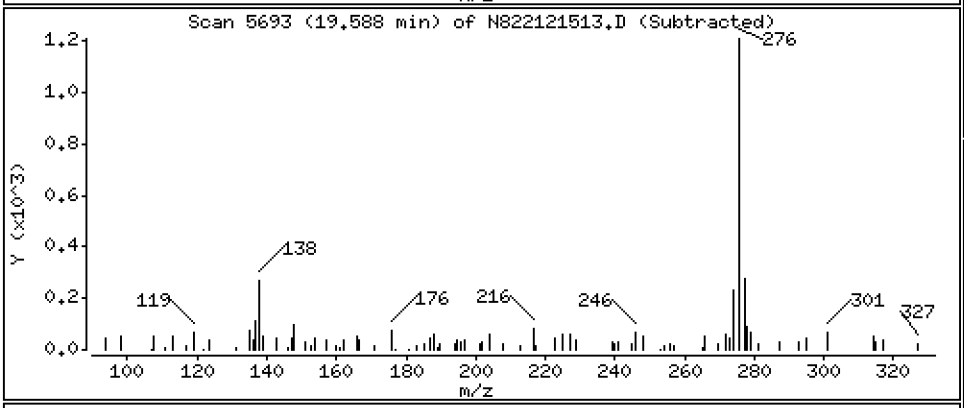
Column diameter: 0.25

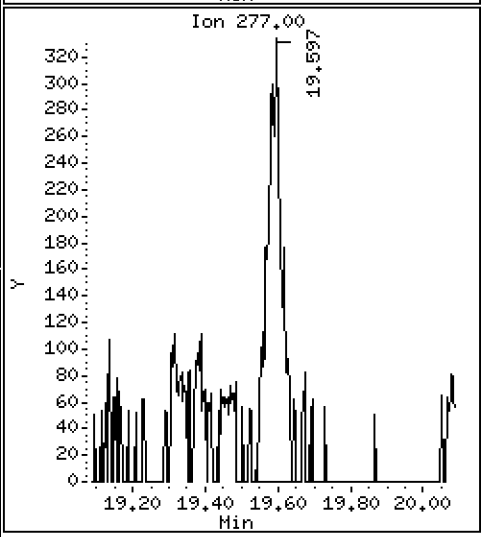
37 Indeno(1,2,3-cd)pyrene

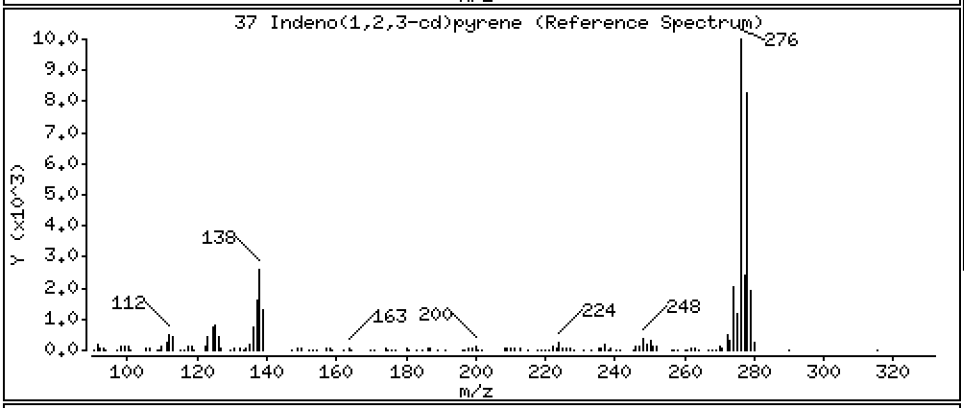
Concentration: 0.3728 ug/mL

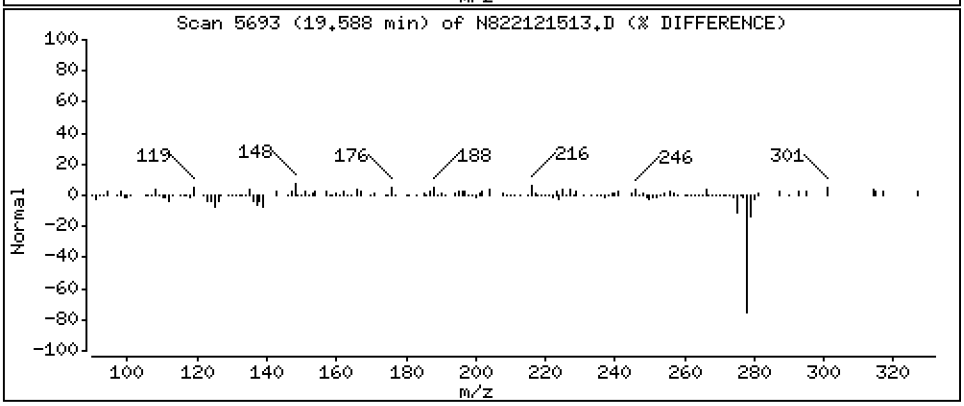












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121513.D

Date : 15-DEC-2022 20:16

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-14,3

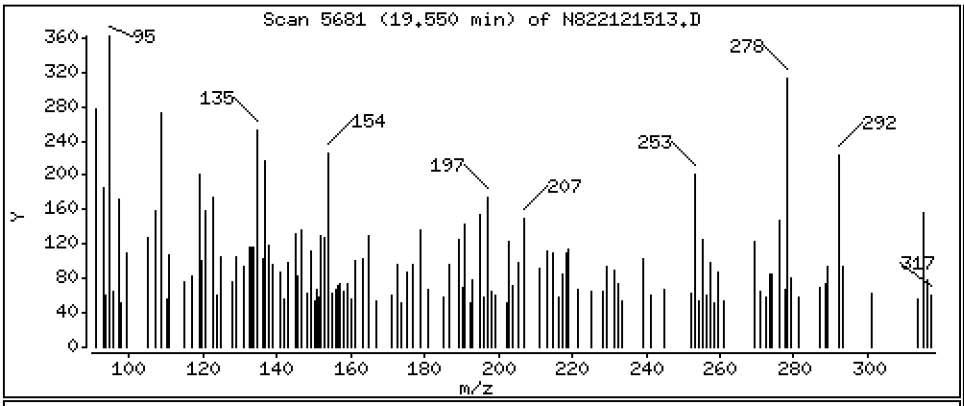
Operator: JZ

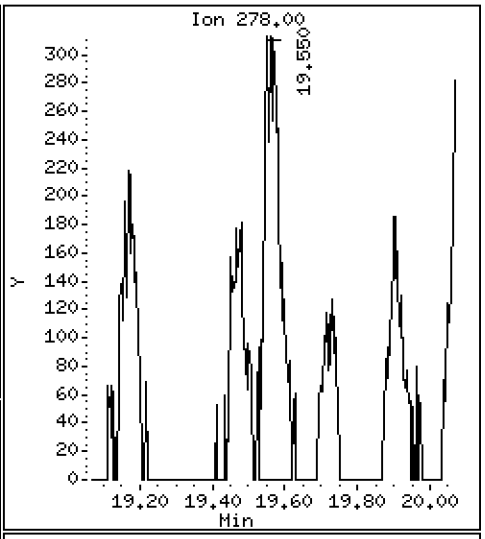
Column phase: Rxi-17sil

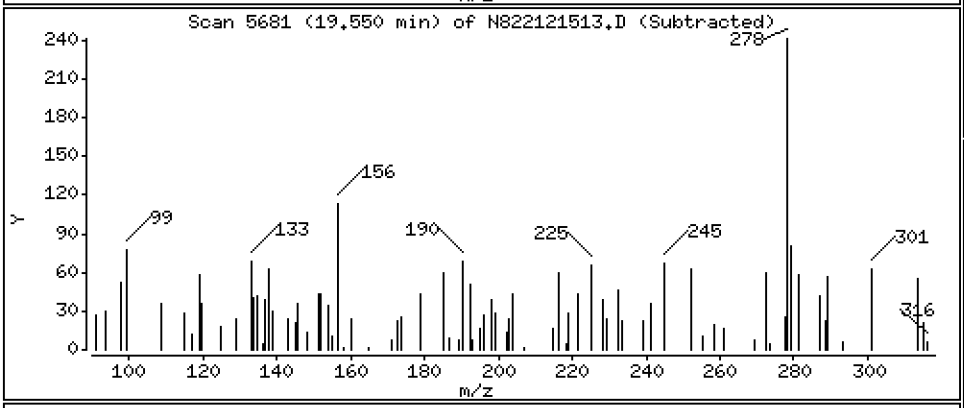
Column diameter: 0.25

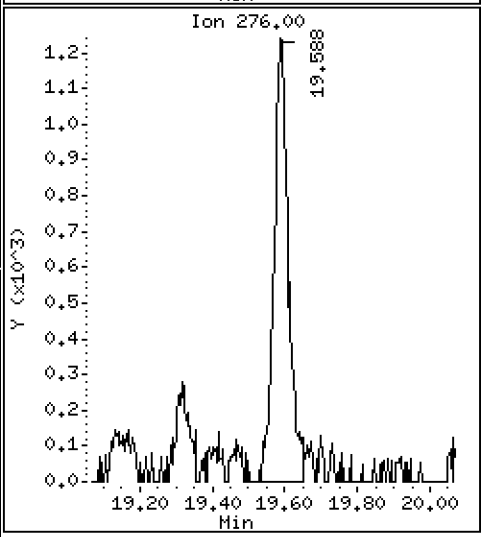
38 Dibenzo(a,h)anthracene

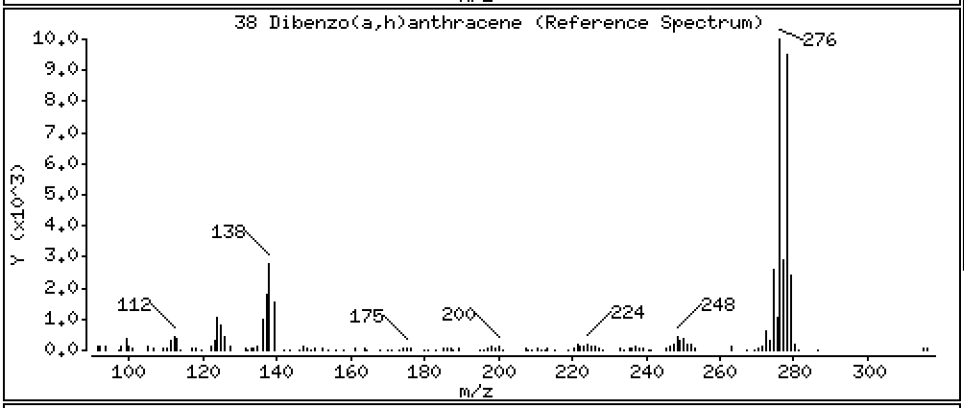
Concentration: 0.1149 ug/mL

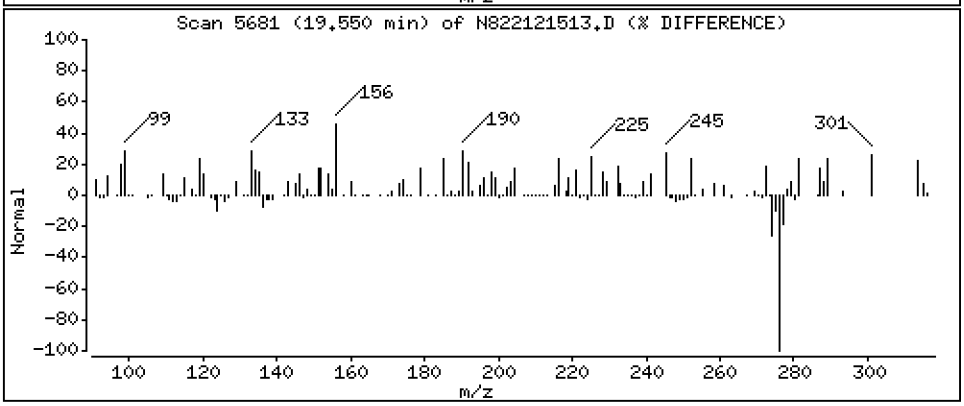












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121513.D

Date : 15-DEC-2022 20:16

Client ID:

Instrument: nt8.i

Sample Info: 22L0136-14,3

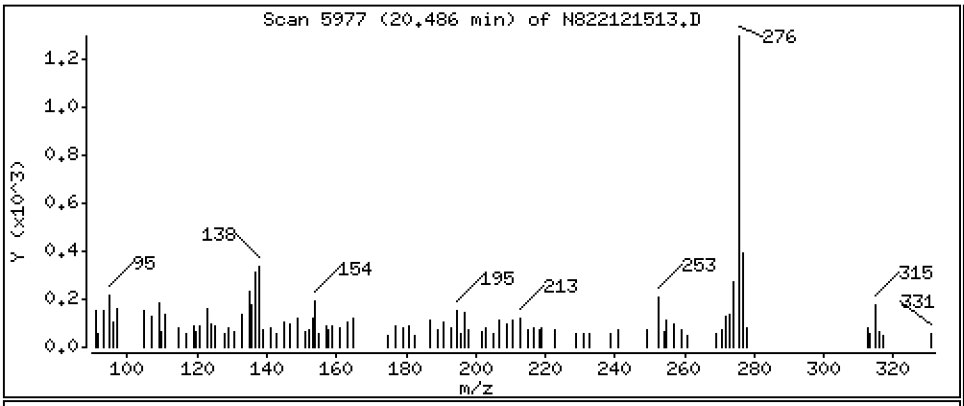
Operator: JZ

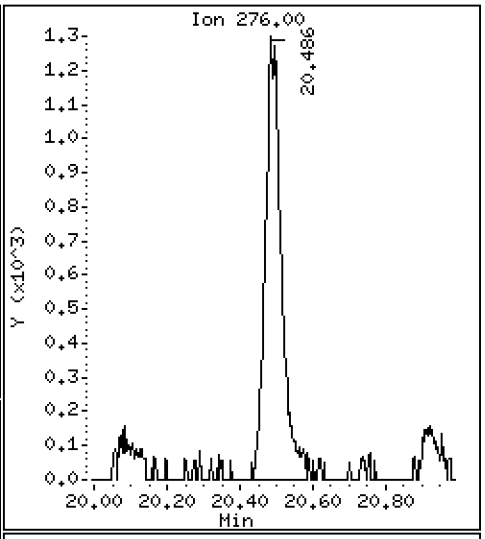
Column phase: Rxi-17sil

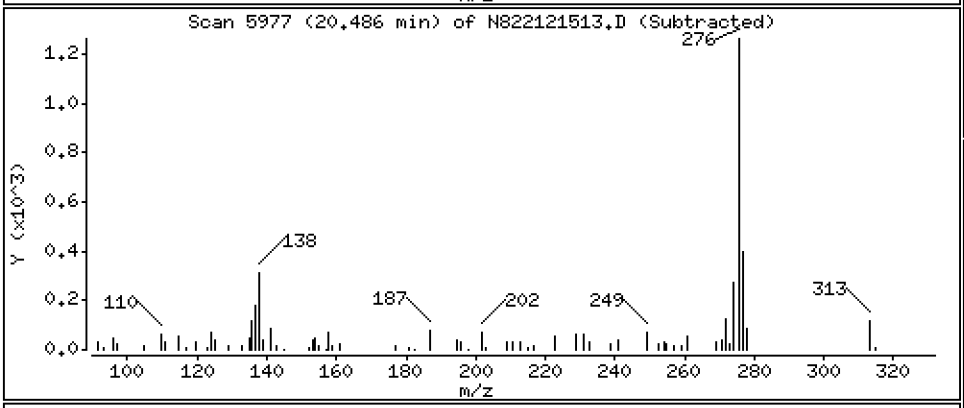
Column diameter: 0.25

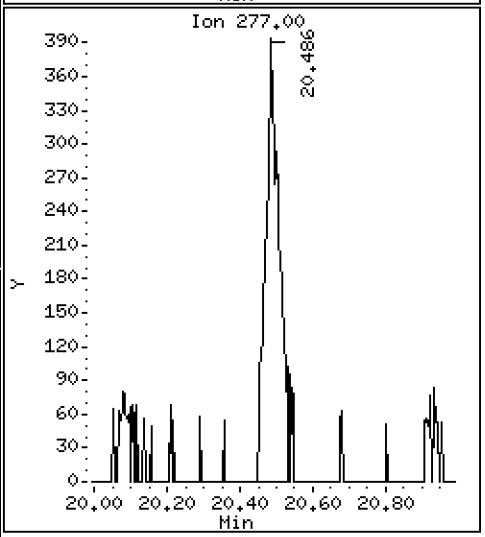
39 Benzo(g,h,i)perylene

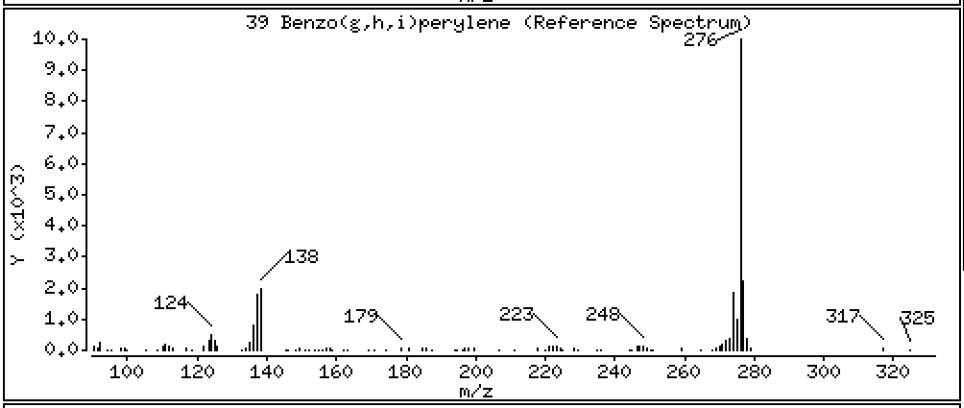
Concentration: 0.4550 ug/mL

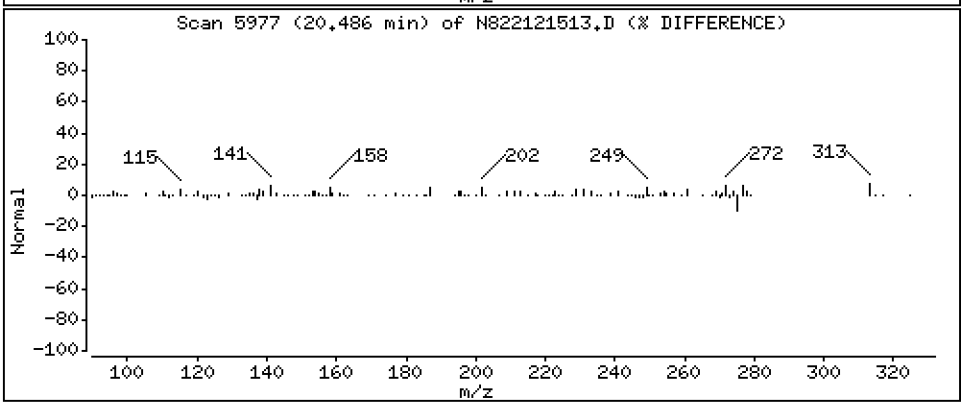












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20221215.b\N822121513.D
Lab Smp Id: 22L0136-14
Inj Date : 15-DEC-2022 20:16
Operator : JZ Inst ID: nt8.i
Smp Info : 22L0136-14,3
Misc Info : 22-
Comment   : 1ul Injection
Method   : \\target\share\chem3\nt8.i\20221215.b\FSIMPNA220411.m
Meth Date : 16-Dec-2022 15:49 jianqing Quant Type: ISTD
Cal Date : 12-APR-2022 15:49 Cal File: NT822041208.D
Als bottle: 13
Dil Factor: 3.00000
Integrator: HP RTE Compound Sublist: PNAXMDL.sub
Target Version: 4.14
Processing Host: JIANQING-202105

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
*	1 Naphthalene-d8	136	4.511	4.521	(1.000)	45116	2.00000	
	2 Naphthalene	128	4.543	4.549	(1.007)	654	0.02861	0.08583
$	3 2-Methylnaphthalene-d10	152	5.238	5.248	(1.161)	7841	0.46080	1.382
	4 2-Methylnaphthalene	141	5.289	5.295	(1.172)	491	0.03775	0.1132(M)
	5 1-methylnaphthalene	141	Compound Not Detected.					
	9 Acenaphthylene	152	Compound Not Detected.					
*	10 Acenaphthene-d10	164	6.778	6.785	(1.000)	28704	2.00000	
	11 Acenaphthene	153	6.832	6.835	(1.008)	400	0.02431	0.07292(M)
	12 Dibenzofuran	168	6.978	6.987	(1.029)	377	0.01633	0.04899
	14 Fluorene	166	7.452	7.458	(1.099)	390	0.02100	0.06300
*	15 Phenanthrene-d10	188	8.799	8.805	(1.000)	52958	2.00000	
	16 Phenanthrene	178	8.834	8.840	(1.004)	3174	0.11298	0.3389
	17 Anthracene	178	8.875	8.881	(1.009)	777	0.02888	0.08663
	22 Fluoranthene	202	10.506	10.512	(1.194)	10981	0.35724	1.072
$	21 Fluoranthene-d10	212	10.475	10.478	(1.190)	18134	0.51784	1.554
	23 Pyrene	202	10.993	10.984	(0.817)	9463	0.29723	0.8917
	24 Benzo(a)anthracene	228	13.327	13.333	(0.991)	3174	0.10661	0.3198(M)
*	25 Chrysene-d12	240	13.450	13.453	(1.000)	47104	2.00000	
	27 Chrysene	228	13.516	13.526	(1.005)	4797	0.16862	0.5059
	28 Benzo(b)fluoranthene	252	15.976	15.986	(0.928)	4748	0.13326	0.3998
	29 Benzo(k)fluoranthene	252	16.030	16.043	(0.931)	2383	0.07210	0.2163
	30 Benzo(j)fluoranthene	252	16.109	16.119	(0.935)	1843	0.06069	0.1821
	31 Total Benzofluoranthenes	252	15.976	15.986	(0.928)	9957	0.30298	0.9089(M)
	32 Benzo(a)pyrene	252	16.998	17.004	(0.987)	3547	0.12060	0.3618
*	33 Perylene-d12	264	17.222	17.229	(1.000)	50184	2.00000	
	35 Perylene	252	17.295	17.308	(1.004)	2907	0.09870	0.2961
$	36 Dibenzo(a,h)anthracene-d14	292	19.477	19.470	(1.131)	15976	0.74105	2.223
	37 Indeno(1,2,3-cd)pyrene	276	19.587	19.587	(1.137)	3585	0.12428	0.3728(M)
	38 Dibenzo(a,h)anthracene	278	19.550	19.568	(1.135)	953	0.03830	0.1149(M)
	39 Benzo(g,h,i)perylene	276	20.485	20.492	(1.189)	4070	0.15167	0.4550

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt8.i
Lab File ID: N822121513.D
Lab Smp Id: 22L0136-14
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: \\target\share\chem3\nt8.i\20221215.b\FSIMPNA220411.m
Misc Info: 22-

Calibration Date: 15-DEC-2022
Calibration Time: 10:02
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	49492	24746	98984	45116	-8.84
10 Acenaphthene-d10	30076	15038	60152	28704	-4.56
15 Phenanthrene-d10	58825	29413	117650	52958	-9.97
25 Chrysene-d12	58593	29297	117186	47104	-19.61
33 Perylene-d12	63012	31506	126024	50184	-20.36

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	4.52	4.02	5.02	4.51	-0.21
10 Acenaphthene-d10	6.79	6.29	7.29	6.78	-0.09
15 Phenanthrene-d10	8.81	8.31	9.31	8.80	-0.07
25 Chrysene-d12	13.45	12.95	13.95	13.45	-0.02
33 Perylene-d12	17.23	16.73	17.73	17.22	-0.04

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

REVIEW SUMMARY FOR FILE - N822121513.D

Lab ID: 22L0136-14
nt8.i, 20221215.b\FSIMPNA220411.m,   15-DEC-2022 20:16

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

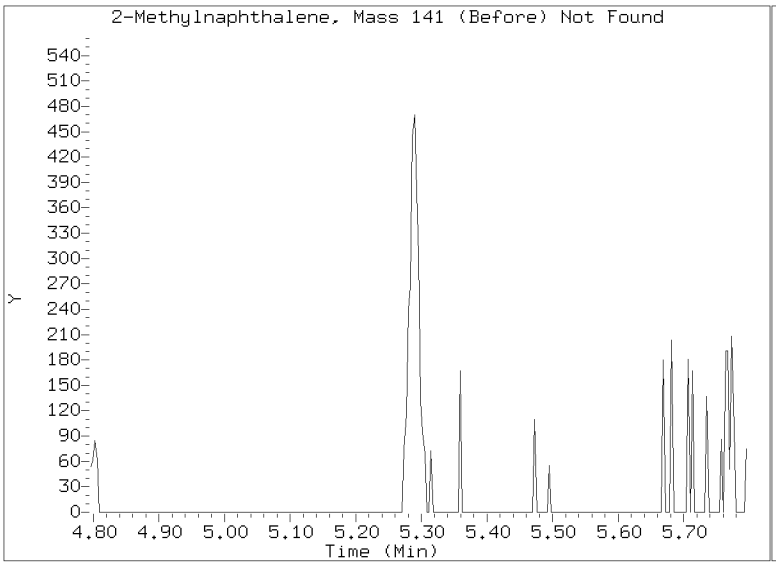
No RRT check performed

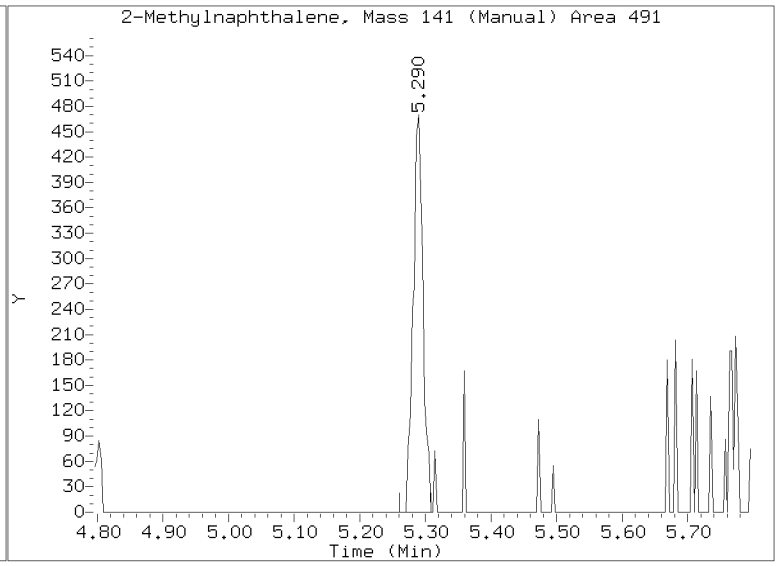
On Column LOD for nt8.i, 20221215.b\FSIMPNA220411.m, PNAXMDL.sub = 0.0080

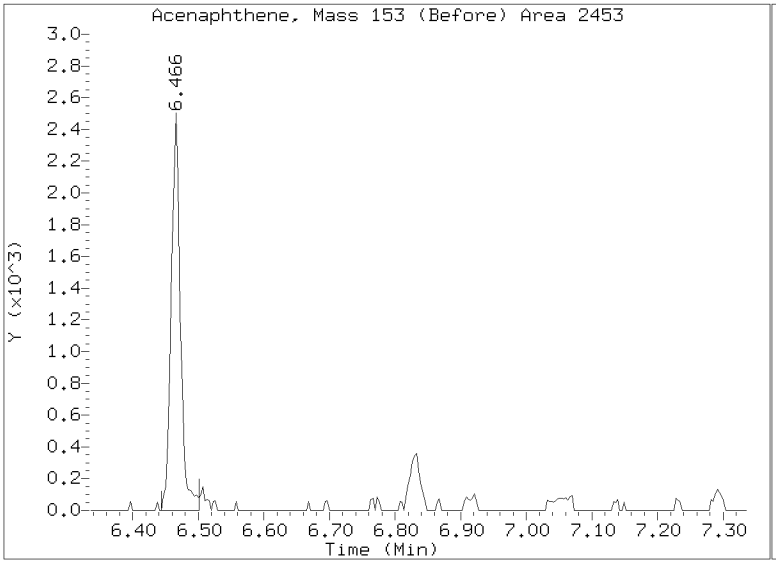
* Only compounds listed in the work order have been verified by the analyst *

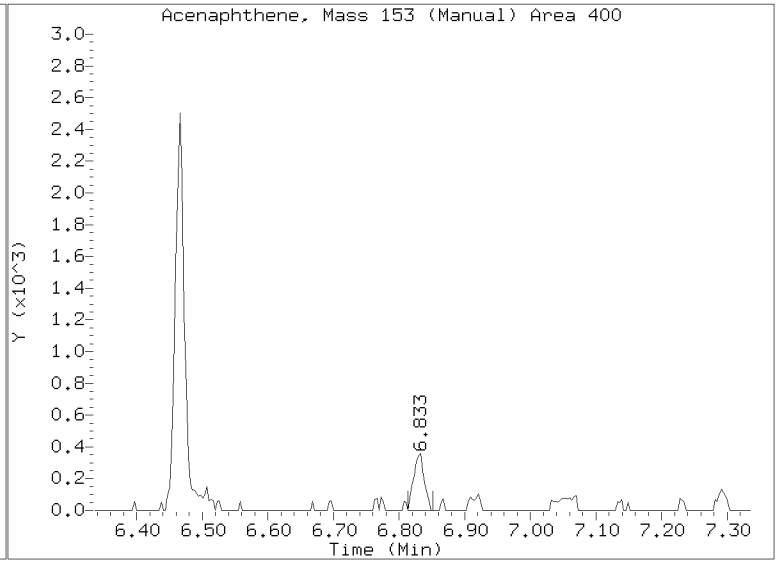
Quant Ion Manual Peak Adjustment Report

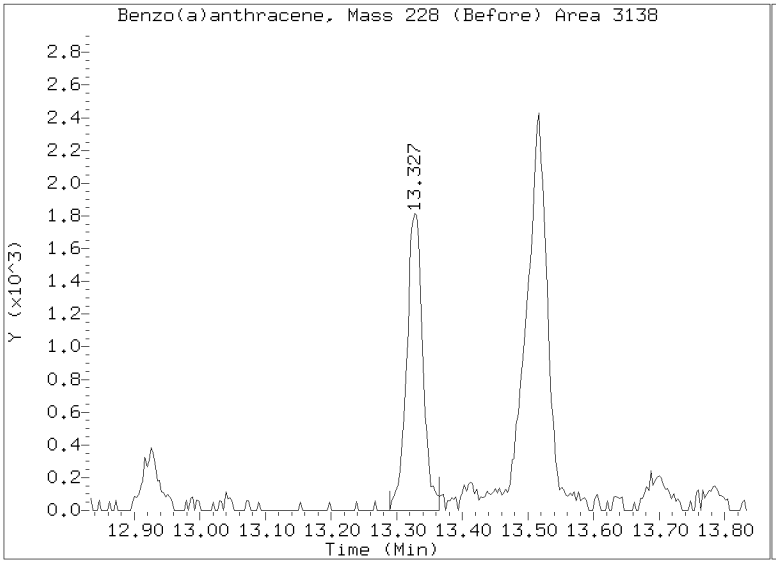
Datafile: //target/share/chem3/nt8.i/20221215.b/N822121513.D
Injection Date: 15-DEC-2022 20:16
Lab ID:22L0136-14 Client ID:
Report Date: 12/16/2022 16:17

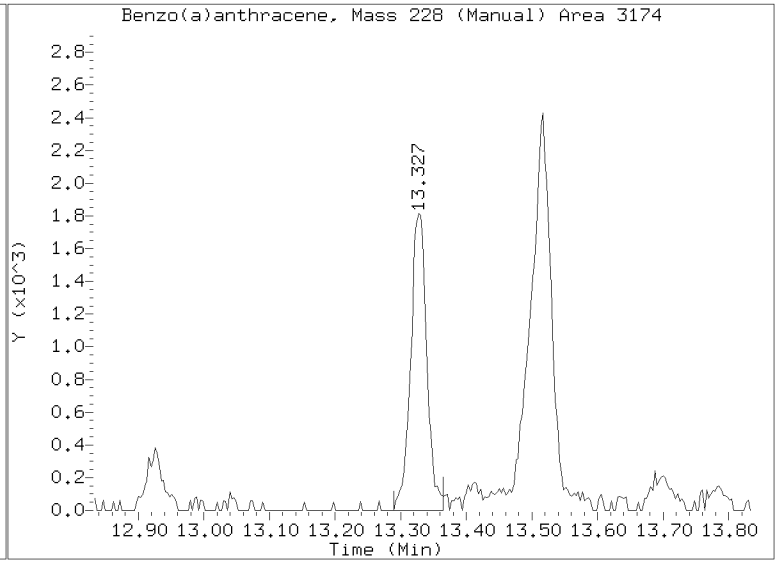






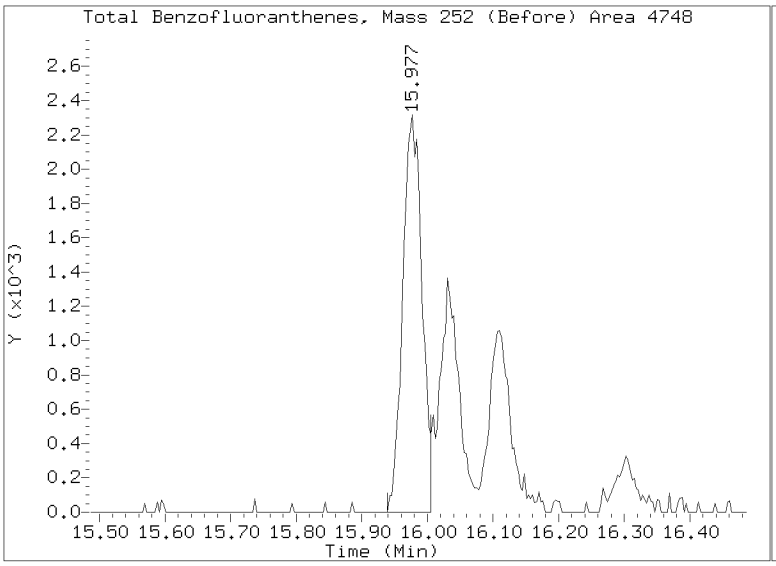


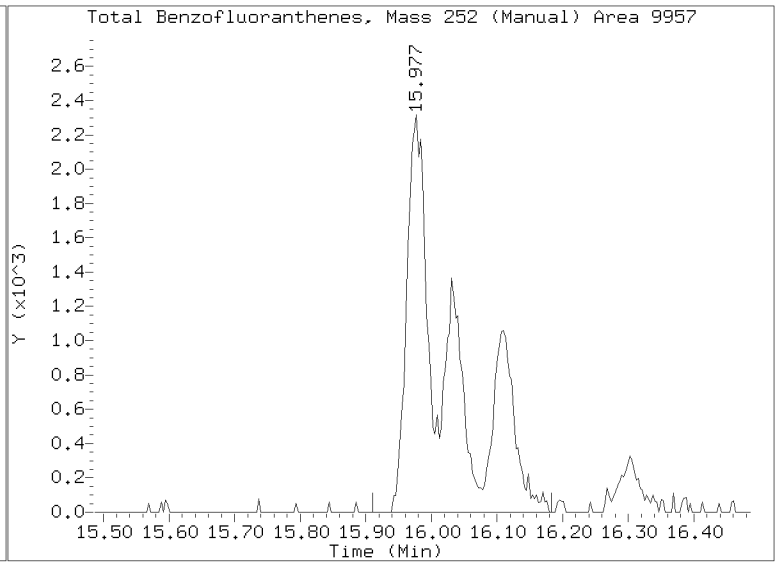


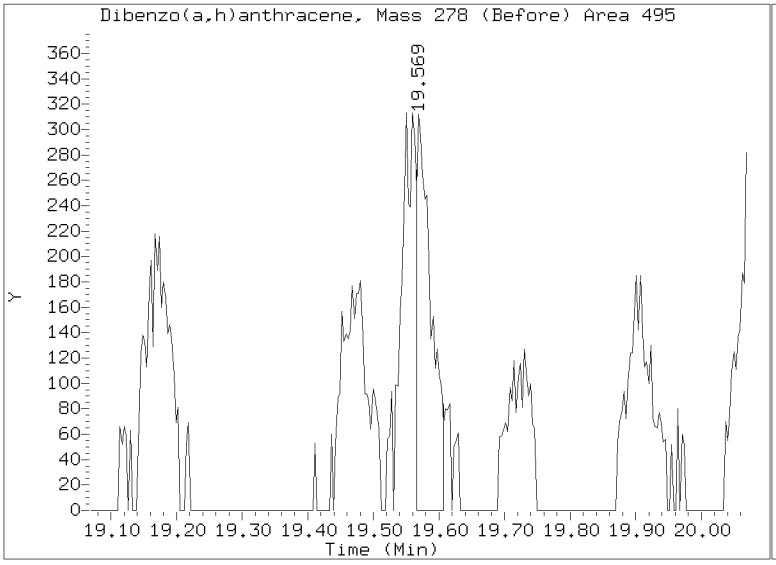


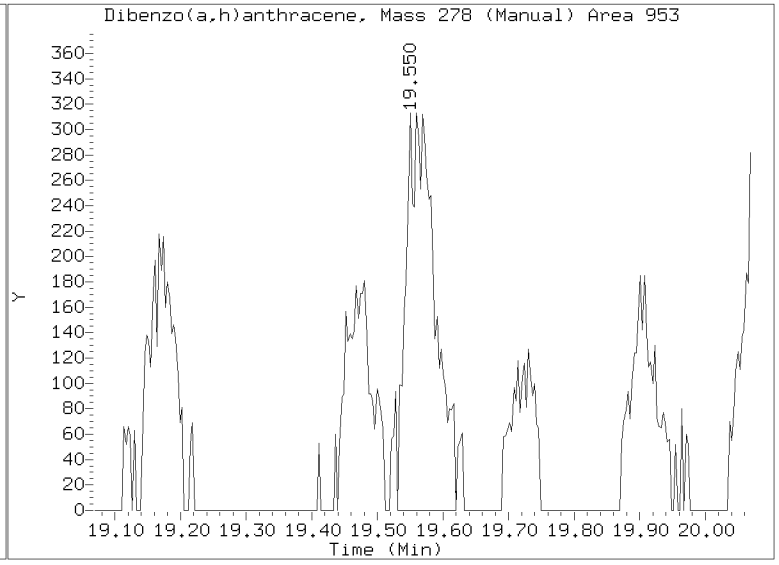
Quant Ion Manual Peak Adjustment Report

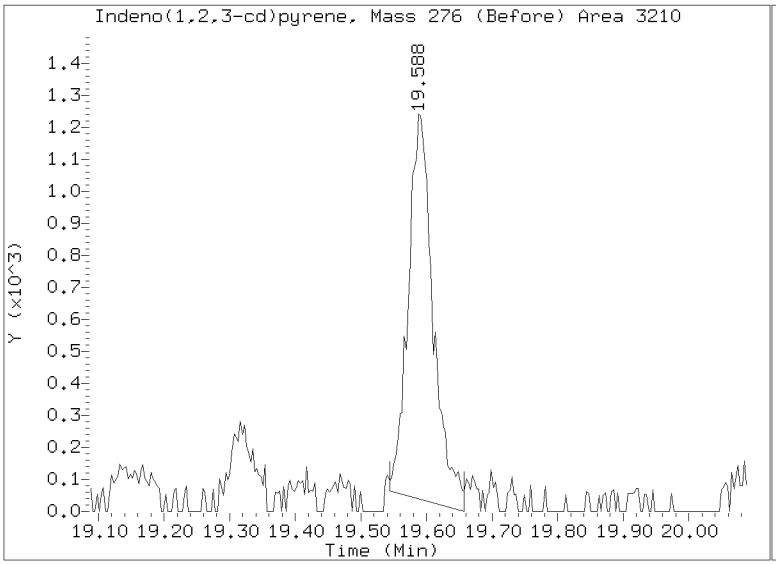
Datafile: //target/share/chem3/nt8.i/20221215.b/N822121513.D
Injection Date: 15-DEC-2022 20:16
Lab ID:22L0136-14 Client ID:
Report Date: 12/16/2022 16:17

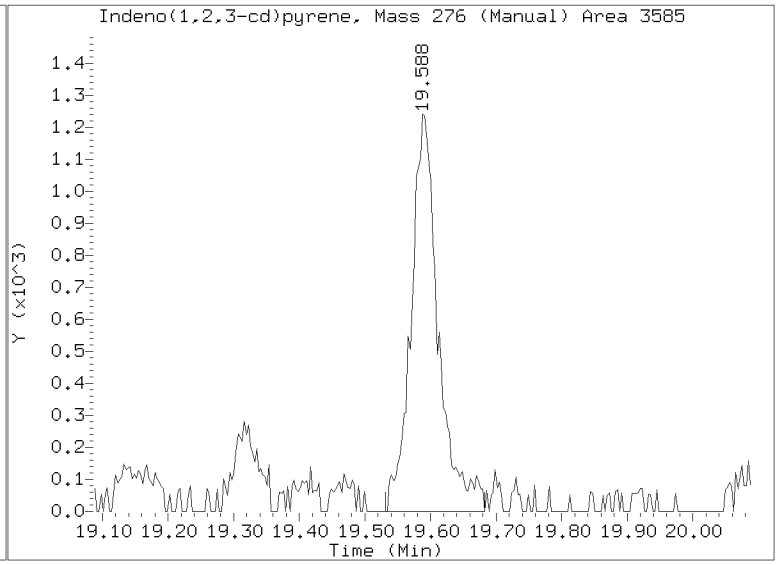












PREPARATION BATCH SUMMARY

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC SDG: 22L0136

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Batch: BKL0196 Batch Matrix: Solid Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SS818	22L0136-06	N822121509.D	12/09/22 14:08	
LDW22-SS825	22L0136-13	N822121512.D	12/09/22 14:08	
LDW22-SS824	22L0136-14	N822121513.D	12/09/22 14:08	
Blank	BKL0196-BLK1	N822121504.D	12/09/22 14:08	
LCS	BKL0196-BS1	N822121505.D	12/09/22 14:08	
LCS Dup	BKL0196-BSD1	N822121506.D	12/09/22 14:08	
LDW22-SS818	BKL0196-MS1	N822121510.D	12/09/22 14:08	
LDW22-SS818	BKL0196-MSD1	N822121511.D	12/09/22 14:08	
Reference	BKL0196-SRM1	N822121508.D	12/09/22 14:08	

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0196

Prepared using: EPA 3546 (Microwave)

8270E-SIM PAH (0.1ug/L or 5ug/kg) in Solid (Version:AOC4 cPAH)

Matrix: Solid Date Prepared: 12/09/22 Balance ID: B14646261 4 Set Up By: GD 12/8/22

WO Comments

22L0136: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

The following standards may be missing from this batch!

Designator	Description
QLS 4	QLS 4

Analysis: 8270E-SIM PAH (0.1ug/L or 5ug/kg)

Lab Number & Container	% Solids	Initial (g) Target Dry: 10 (Wet) Actual	(REQ/Opt) GPC C/U (1:1) 1 2 3	(REQ/Opt) Sulfur C/U (1:1) Y/N (Transfer Rinse)	(REQ/Opt) Silica Gel C/U (1:1) Y/N	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
22L0136-06 A	60.8	(16.44) 16.47	(1:1) Y/N	(1:1) Y/N	(1:1) Y/N	0.5 ____	0.5 ____	
22L0136-13 A	41.7	(23.98) 23.99	(1:1) Y/N	(1:1) Y/N	(1:1) Y/N	0.5 ____	0.5 ____	
22L0136-14 A	20.3	~~(49.21)~~ (20.00) 20.05	(1:1) Y/N	(1:1) Y/N	(1:1) Y/N	0.5 ____	0.5 ____	

Batch QC

Lab Number	% Solids	Initial (g) Target Dry: 10 (Wet) Actual	(REQ/Opt) GPC C/U (1:1) 1 2 3	(REQ/Opt) Sulfur C/U (1:1) Y/N (Transfer Rinse)	(REQ/Opt) Silica Gel C/U (1:1) Y/N	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BKL0196-BLK1	100.0	(10.00) 10.00	(1:1) Y/N	(1:1) Y/N	(1:1) Y/N	0.5 ____	0.5 ____	
BKL0196-BS1	100.0	(10.00) 10.00	(1:1) Y/N	(1:1) Y/N	(1:1) Y/N	0.5 ____	0.5 ____	
BKL0196-BSD1	100.0	(10.00) 10.00	(1:1) Y/N	(1:1) Y/N	(1:1) Y/N	0.5 ____	0.5 ____	
BKL0196-MS1	60.8	(16.44) 16.44	(1:1) Y/N	(1:1) Y/N	(1:1) Y/N	0.5 ____	0.5 ____	Use 22L0136-06
BKL0196-MSD1	60.8	(16.44) 16.44	(1:1) Y/N	(1:1) Y/N	(1:1) Y/N	0.5 ____	0.5 ____	Use 22L0136-06
BKL0196-SRM1	100.0	~~(10.00)~~ (5.00) 5.00	(1:1) Y/N	(1:1) Y/N	(1:1) Y/N	0.5 ____	0.5 ____	Use J007238

+1g DI WATER

12/09/22
Client ID verified By Date

TWL 12/15/22
Preparation Reviewed By Date

12/09/22 14:08
Extraction Date and Time
12/9/22

Printed: 12/8/2022 11:36:18AM

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0196

Prepared using: EPA 3546 (Microwave)

8270E-SIM PAH (0.1ug/L or 5ug/kg) in Solid (Version:AOC4 cPAH)

WO Comments

22L0136: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

Prep Steps

Microwave
1 2 3
CT 12/09/22
Analyst/Date

Pre-GPC KD 100°C (No Exchange)
1 2 3 4 5 6
CP 12/13/22
Analyst/Date

Pre GPC TurboVap
1 2 3 4
AA 12-14-22
Analyst/Date

GPC
1 2 3
SH 12/14/22
Analyst/Date

Post-GPC KD 80°C Hexane Exchange 2 x 20 mL 100°C
0 1 2 4 5 6
CP 12/15/22
Analyst/Date

Pre-Cleanup TurboVap
1 2 3 4
TWC 12/15/22
Analyst/Date

Post-Cleanup TurboVap
1 2 3 4
TWC 12/15/22
Analyst/Date

Vialing
TWC 12/15/22
Analyst/Date

Reagents Used

Station/Reagent	Standard ID
Microwave Analyst: CT Date: 12/09/22	
Pre-Deactivated Glass Wool	KB10197
Anhydrous Sodium Sulfate	KB10995
1:1 Methylene Chloride/Acetone	KB10579
Methylene Chloride	KB04735
Pre GPC KD Analyst: CP Date: 12/13/22	
Methylene Chloride	KB10561
Hexane	K003310
GPC Filter Prep Analyst: AA Date: 12-14-22	
Methylene Chloride	KB10561
GPC Analyst: SH Date: 12/14/22	
Methylene Chloride	KBB5281
GPC Calibration File	CLKB135-GPC2
Post GPC KD Analyst: CP Date: 12/15/22	
Methylene Chloride	KB10561
Hexane	KB11373
Vialing Analyst: TWC Date: 12/15/22	
Hexane	KB11373
Methylene Chloride	KB10561
Silica Gel (SPE) darts	KBB9538
Sodium Sulfite	N/A
Tetrabutylammonium hydrogensulfate (TBAS)	N/A

Surrogates & Spike Standards Used

Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
Surrogate 15/75µg/mL	B K009860 (V) Exp Date: 9/22/2023	100µL	CT	✓
Spike 15/75µg/mL	15 K009081 (V) Exp Date: 8/4/2023	200µL	CT	✓

MANUALLY ENTER EXPIRATION DATES!

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

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

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0196

Prepared using: EPA 3546 (Microwave)

8270E-SIM PAH (0.1ug/L or 5ug/kg) in Solid (Version:AOC4 cPAH)

WO Comments

22L0136: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

Prep Instructions	
SPECIAL INSTRUCTIONS: 1. Weigh into beakers-lightly dry with Sodium Sulfate. 2. Transfer to microwave vessel. 3. Add DCM ONLY to the vessels (until solvent is 3 inches above soil layer after homogenization). 4. Add surr/spike. 5. Microwave on appropriate power setting determined by # of samples. 6. After microwave-re-homogenize while hot then let cool 10-15 min in Refridgerator 05. Re-homogenize while cool. 7. Decant DCM into Erlenmeyer flask with a funnel containing pre-deactivated glasswool. 8. Rinse with DCM 9. Microwave a 2nd time using 1:1 DCM/ACE. 10. Let cool and decant the solvent then empty the soil into the funnel and rinse with DCM. 11. If GPC is Req add 10mL Hexane and KD to 5mL at 100°C (NO EXCHANGE) 12. If GPC is NOT Req = KD to 5mL at 100°C. Exchange to Hexane (2X with 10mL) to 5mL at 100°C. 13. TurboVap. 14. If no GPC then Sulfur clean is REQUIRED. 15. Sulfur clean = Hexane transfer rinse. 16. Silica Clean-up Any Color=REQ (All or none). 17. TurboVap 18. Vial in DCM. A. Need Total Solids Y (N) B. Archive/Freeze (Y) N	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

Extraction Parameter: SIM PAH Extraction Batch: BLL0196

Total Solids Batch: BKL0171 Work Order(s): 22L0136

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
☒ No Anomalies (standard soil/wet sediment/sand/gravel)= ϕ1 ~ ϕ3, ϕ5 – ϕ7, 9.	12/07/22
☒ Standing Water Decanted (Not shared)= ϕ1, ϕ4, 6 – 14.	12/07/22
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay/Clumps (Difficult to homogenize)=	
☒ Rocks (%+size)? 1/411 5.0% =ϕ8	12/07/22
☒ Organics (Leaves/sticks/grass)= 5.0% =ϕ4. 60.4% = 14.	12/07/22
☒ Oily, obvious fuel/sulfur odors= 1ϕ – 13.	12/07/22
☐ Received in 32oz jar(s)=Homogenized in Pyrex dish=	
☐ Previously Frozen =	
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
☐ Emulsions (%)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
☐ Received in 1.0L Bottle(s)=No Bottle Rinse=	
☐ Other Notes/Comments= (Note problems, concerns, corrective actions).	
☒ Share Samples Y / N	N 12/07/22
☒ Multiple Jars Y / N	N 12/07/22
☐ Sample Pre-Screens indicate analyte activity=	
☐ Sample weights/volumes reduced based on Pre-Screen=	

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0196

Prepared using: EPA 3546 (Microwave)

8270E-SIM PAH (0.1ug/L or 5ug/kg) in Solid (Version:AOC4 cPAH)

WO Comments

22L0136: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

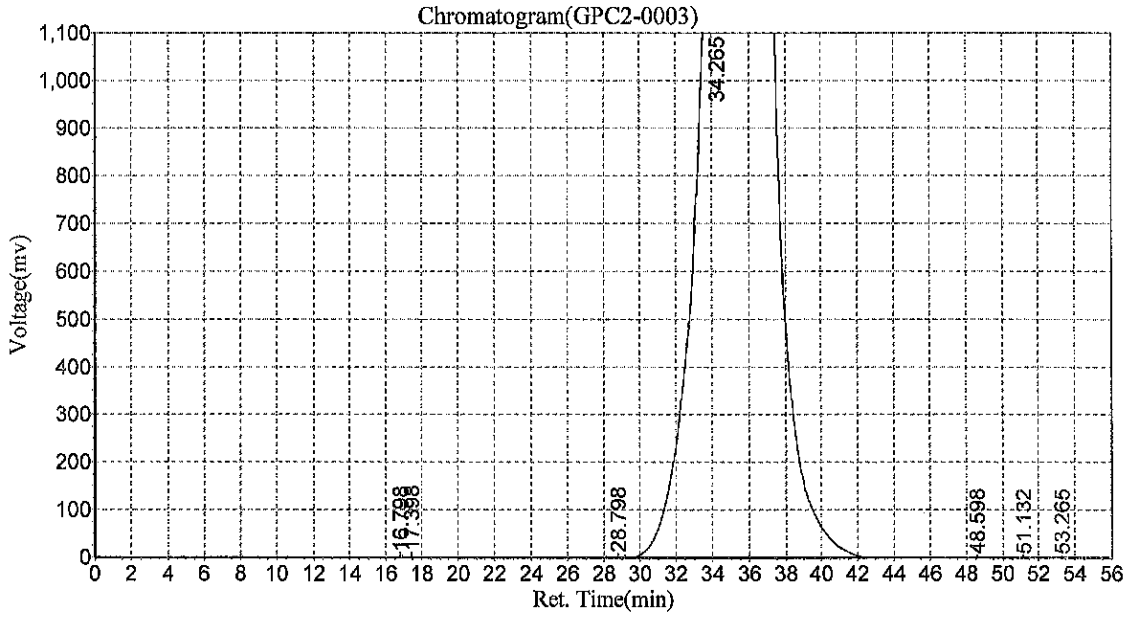
Printed: 12/8/2022 11:36:18AM

3060F

BKL0296/196 22L0261 SVOC 22L0136 PAH

Date:2022-12-14,7:21:10 PM
Data File:c:\n2000\data\gpc2\121422\GPC2-0003
Method File:E:\GPC2_InHouse.mtd

Analyst£°SH
Date/Time2022-12-14,7:21:10 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		16.798	3279.548	169375.313	0.0386
2		17.398	3534.129	142582.609	0.0325
3		28.798	2680.451	143948.375	0.0328
4		34.265	1379746.125	437841184.000	99.7840
5		48.598	1276.355	133940.219	0.0305
6		51.132	2068.129	198014.906	0.0451
7		53.265	2020.097	159886.969	0.0364
Total			1394604.834	438788932.391	100.000

Ingredient Table

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

BKL0296/196 22L0261 SVOC 22L0136 PAH

Date:2022-12-14,8:18:51 PM
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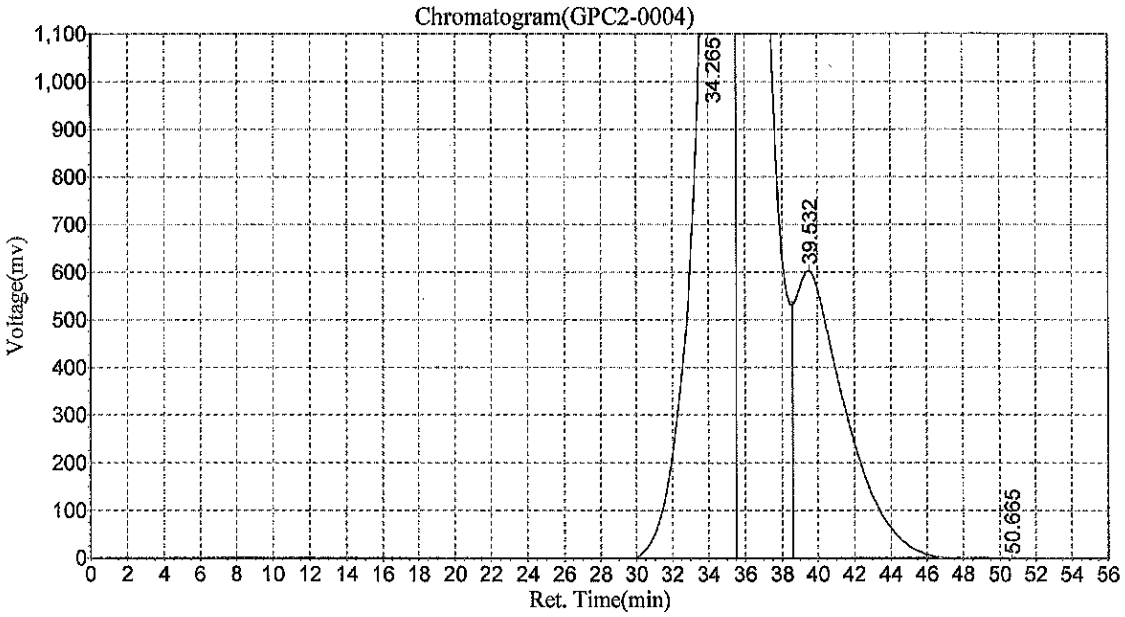
Method File:E:\GPC2_InHouse.mtd

Analyst£°SH
Date/Time2022-12-14,8:18:52 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		34.265	1380775.625	223003424.000	64.9428
2		39.532	608874.813	120272752.000	35.0257
3		50.665	1558.881	108277.859	0.0315
Total			1991209.319	343384453.859	100.000

Ingredient Table

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

BKL0296/196 22L0261 SVOC 22L0136 PAH

Date:2022-12-14,9:16:35 PM
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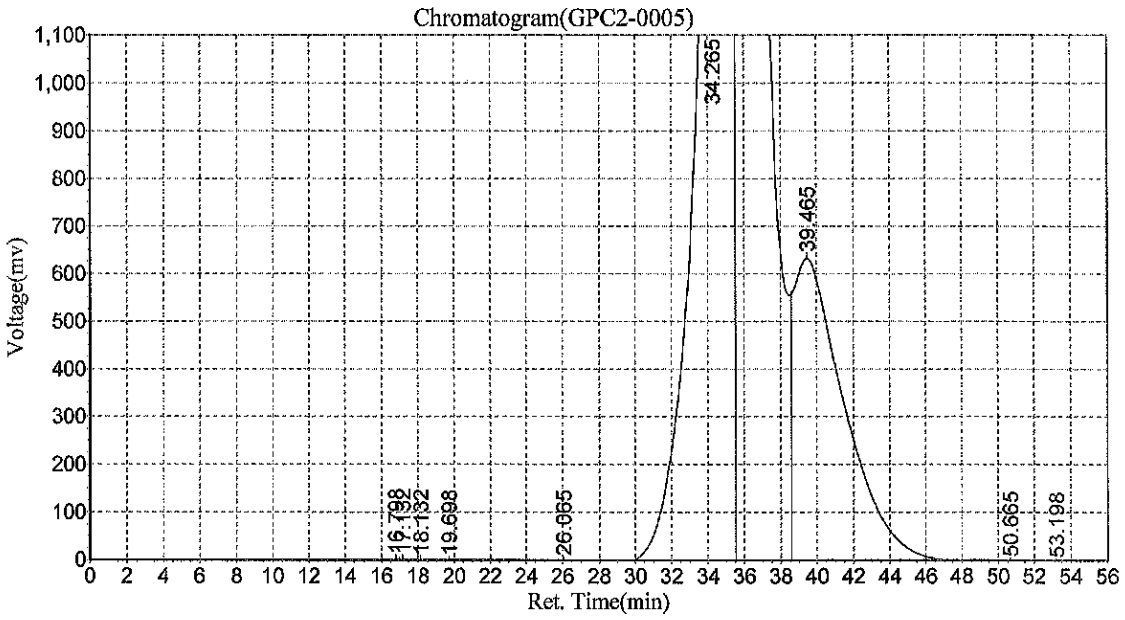
Method File:E:\GPC2_InHouse.mtd

Analyst£°SH
Date/Time2022-12-14,9:16:35 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		16.798	4936.496	304488.219	0.0863
2		17.132	4917.910	251649.938	0.0713
3		18.132	3242.153	116321.500	0.0330
4		19.698	2315.401	142296.484	0.0403
5		26.065	1875.800	119035.516	0.0337
6		34.265	1381482.625	226053856.000	64.0856
7		39.465	640203.375	125489816.000	35.5760
8		50.665	2589.200	159154.359	0.0451
9		53.198	1452.926	100776.469	0.0286
Total			2043015.885	352737394.484	100.000

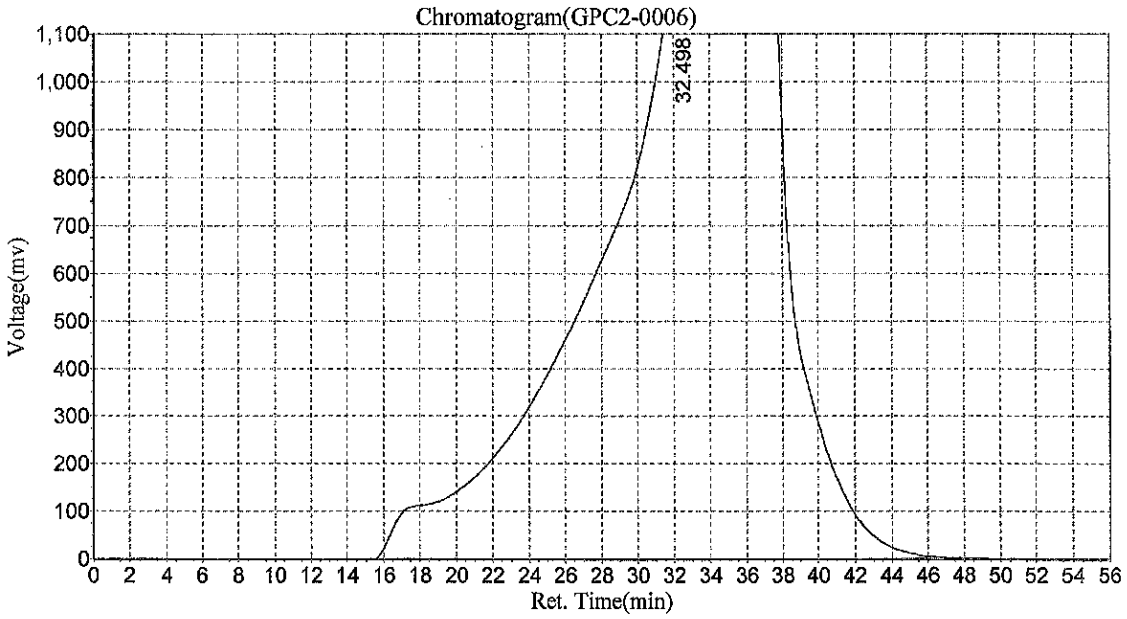
Ingredient Table

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

BKL0296/196 22L0261 SVOC 22L0136 PAH

Date:2022-12-14,10:14:17 PM
Data File:c:\n2000\data\gpc2\121422\GPC2-0006
Method File:E:\GPC2_InHouse.mtd

Analyst£°SH
Date/Time2022-12-14,10:14:17 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		32.498	1375739.000	978535616.000	100.0000
Total			1375739.000	978535616.000	100.000

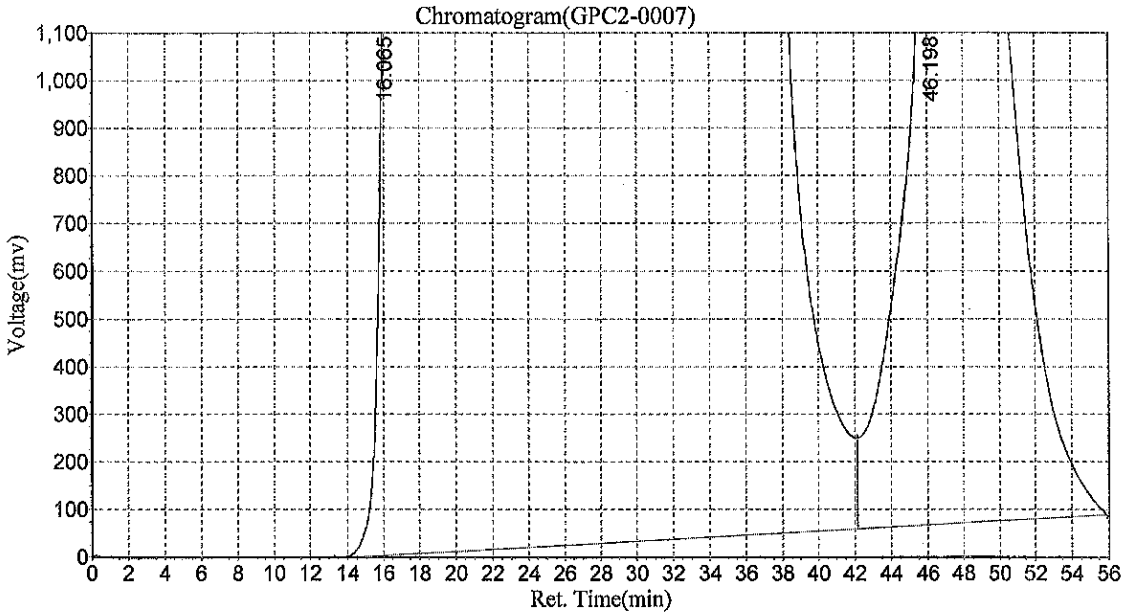
Ingredient Table

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

BKL0296/196 22L0261 SVOC 22L0136 PAH

Date:2022-12-14,11:12:00 PM
Data File:c:\n2000\data\gpc2\121422\GPC2-0007
Method File:E:\GPC2_InHouse.mtd

Analyst£°SH
Date/Time2022-12-14,11:12:01 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		16.065	1376110.625	1871265024.000	76.2219
2		46.198	1308957.375	583756800.000	23.7781
Total			2685068.000	2455021824.000	100.000

Ingredient Table

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

BKL0296/196 22L0261 SVOC 22L0136 PAH

Date:2022-12-15,12:09:42 AM
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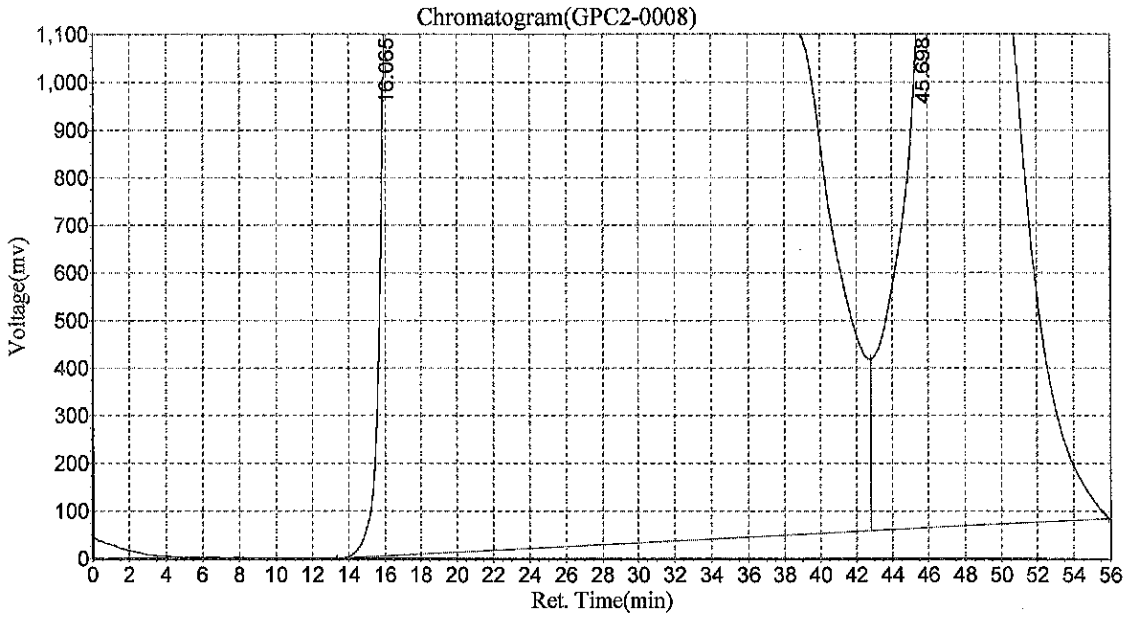
Method File:E:\GPC2_InHouse.mtd

Analyst£°SH
Date/Time2022-12-15,12:09:42 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		16.065	1373690.500	1928508288.000	76.4448
2		45.698	1311455.625	594238336.000	23.5552
Total			2685146.125	2522746624.000	100.000

Ingredient Table

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

BKL0296/196 22L0261 SVOC 22L0136 PAH

Date:2022-12-15,1:07:30 AM
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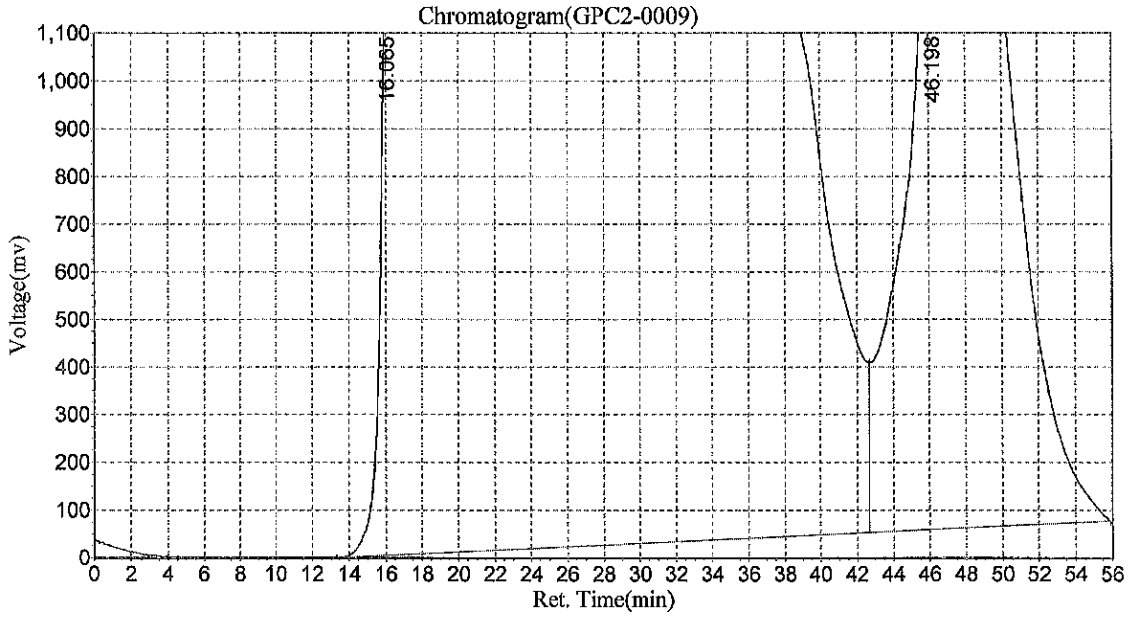
Method File:E:\GPC2_InHouse.mtd

Analyst£°SH
Date/Time2022-12-15,1:07:30 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		16.065	1374637.750	1909144320.000	77.0100
2		46.198	1317507.000	569940480.000	22.9900
Total			2692144.750	2479084800.000	100.000

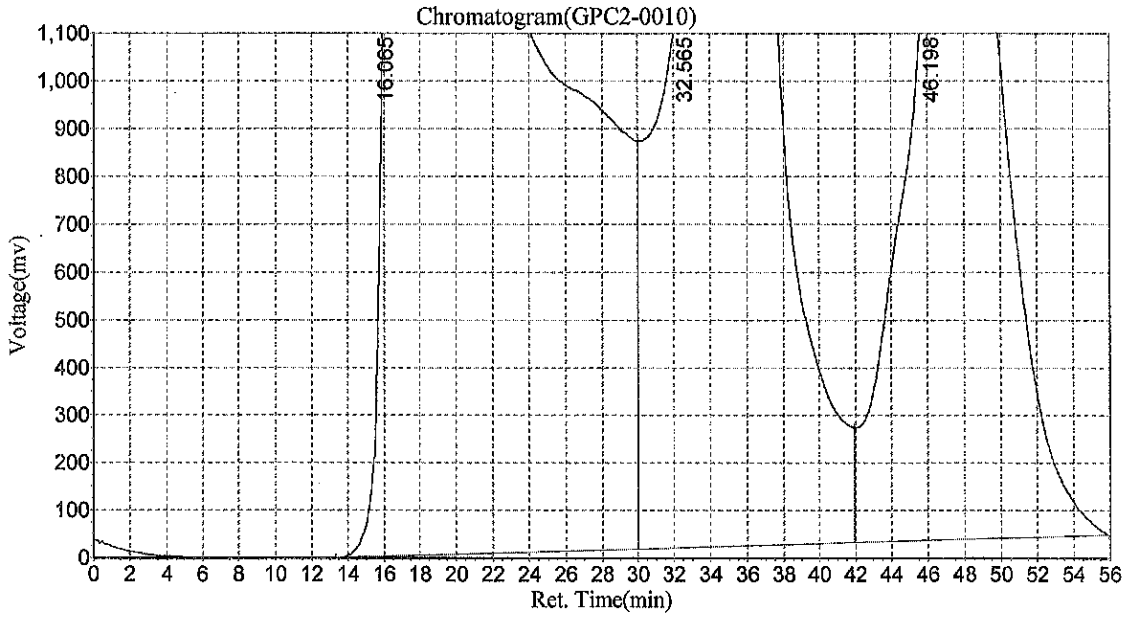
Ingredient Table

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

BKL0296/196 22L0261 SVOC 22L0136 PAH

Date:2022-12-15,2:05:12 AM
Data File:c:\n2000\data\gpc2\121422\GPC2-0010
Method File:E:\GPC2_InHouse.mtd

Analyst£ºSH
Date/Time2022-12-15,2:05:12 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		16.065	1376648.625	1001686400.000	44.7119
2		32.565	1351791.125	680316480.000	30.3670
3		46.198	1339846.625	558309568.000	24.9211
Total			4068286.375	2240312448.000	100.000

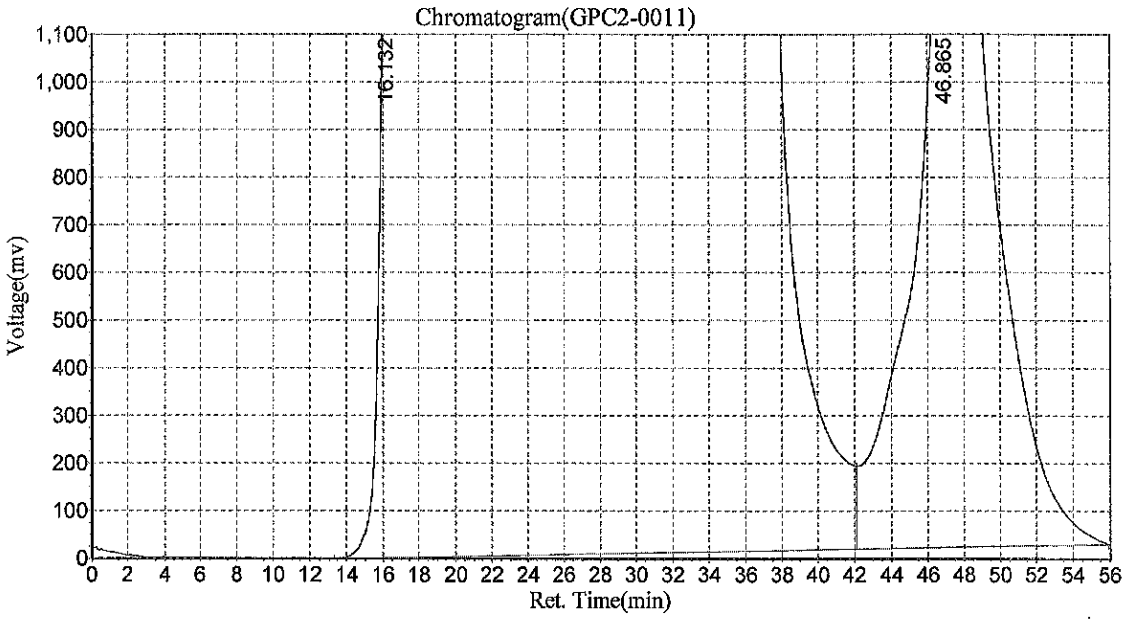
Ingredient Table

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

BKL0296/196 22L0261 SVOC 22L0136 PAH

Date:2022-12-15,3:02:55 AM
Data File:c:\n2000\data\gpc2\121422\GPC2-0011
Method File:E:\GPC2_InHouse.mtd

Analyst£°SH
Date/Time2022-12-15,3:02:56 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		16.132	1378341.000	1869196416.000	80.7442
2		46.865	1352993.625	445763680.000	19.2558
Total			2731334.625	2314960096.000	100.000

Ingredient Table

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

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Cleanup Batch:	CKL0184	Cleanup Type:	GPC
Cleanup Method:	EPA 3640A GPC Cleanup 1:1	Analysis:	EPA 8270E-SIM

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LCS Dup	BKL0196-BSD1	N822121506.D	12/14/2022	
LDW22-SS824	22L0136-14	N822121513.D	12/14/2022	
LDW22-SS825	22L0136-13	N822121512.D	12/14/2022	
Reference	BKL0196-SRM1	N822121508.D	12/14/2022	
Blank	BKL0196-BLK1	N822121504.D	12/14/2022	
Matrix Spike	BKL0196-MS1	N822121510.D	12/14/2022	
LCS	BKL0196-BS1	N822121505.D	12/14/2022	
LDW22-SS818	22L0136-06	N822121509.D	12/14/2022	
Matrix Spike Dup	BKL0196-MSD1	N822121511.D	12/14/2022	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CKL0184

Matrix: Solid **Cleanup using: Organics - EPA 3640A GPC Cleanup 1:1** **Check Standard: CKK0219-GPC1** **Printed: 12/15/2022 3:01:07PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0136-06	A	LDW22-SS818	A 02	0.5	0.5	8270E-SIM PAH (0.1ug/L or 5ug/kg)	12/14/2022	SH	
22L0136-13	A	LDW22-SS825	A 01	0.5	0.5	8270E-SIM PAH (0.1ug/L or 5ug/kg)	12/14/2022	SH	
22L0136-14	A	LDW22-SS824	A 01	0.5	0.5	8270E-SIM PAH (0.1ug/L or 5ug/kg)	12/14/2022	SH	
BKL0196-BLK1	-	Blank	-	0.5	0.5	-	12/14/2022	SH	
BKL0196-BS1	-	LCS	-	0.5	0.5	-	12/14/2022	SH	
BKL0196-BSD1	-	LCS Dup	-	0.5	0.5	-	12/14/2022	SH	
BKL0196-MS1	-	Matrix Spike	-	0.5	0.5	-	12/14/2022	SH	
BKL0196-MSD1	-	Matrix Spike Dup	-	0.5	0.5	-	12/14/2022	SH	
BKL0196-SRM1	-	Reference	-	0.5	0.5	-	12/14/2022	SH	

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Cleanup Batch:	CKL0185	Cleanup Type:	Silica Gel
Cleanup Method:	EPA 3630C Silica Gel Cleanup - uL	Analysis:	EPA 8270E-SIM

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SS824	22L0136-14	N822121513.D	12/15/2022	
LDW22-SS825	22L0136-13	N822121512.D	12/15/2022	
Blank	BKL0196-BLK1	N822121504.D	12/15/2022	
LCS	BKL0196-BS1	N822121505.D	12/15/2022	
LCS Dup	BKL0196-BSD1	N822121506.D	12/15/2022	
Matrix Spike	BKL0196-MS1	N822121510.D	12/15/2022	
Matrix Spike Dup	BKL0196-MSD1	N822121511.D	12/15/2022	
Reference	BKL0196-SRM1	N822121508.D	12/15/2022	
LDW22-SS818	22L0136-06	N822121509.D	12/15/2022	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CKL0185

Matrix: Solid **Cleanup using: Organics - EPA 3660C Silica Gel Cleanup - uL** **Printed: 12/15/2022 3:01:36PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0136-06	A	LDW22-SS818	A 02	0.5	0.5	8270E-SIM PAH (0.1ug/L or 5ug/kg)	12/15/2022	TWC	
22L0136-13	A	LDW22-SS825	A 01	0.5	0.5	8270E-SIM PAH (0.1ug/L or 5ug/kg)	12/15/2022	TWC	
22L0136-14	A	LDW22-SS824	A 01	0.5	0.5	8270E-SIM PAH (0.1ug/L or 5ug/kg)	12/15/2022	TWC	
BKL0196-BLK1	-	Blank	-	0.5	0.5	-	12/15/2022	TWC	
BKL0196-BS1	-	LCS	-	0.5	0.5	-	12/15/2022	TWC	
BKL0196-BSD1	-	LCS Dup	-	0.5	0.5	-	12/15/2022	TWC	
BKL0196-MS1	-	Matrix Spike	-	0.5	0.5	-	12/15/2022	TWC	
BKL0196-MSD1	-	Matrix Spike Dup	-	0.5	0.5	-	12/15/2022	TWC	
BKL0196-SRM1	-	Reference	-	0.5	0.5	-	12/15/2022	TWC	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I

METHOD BLANK DATA SHEET

EPA 8270E-SIM

Blank

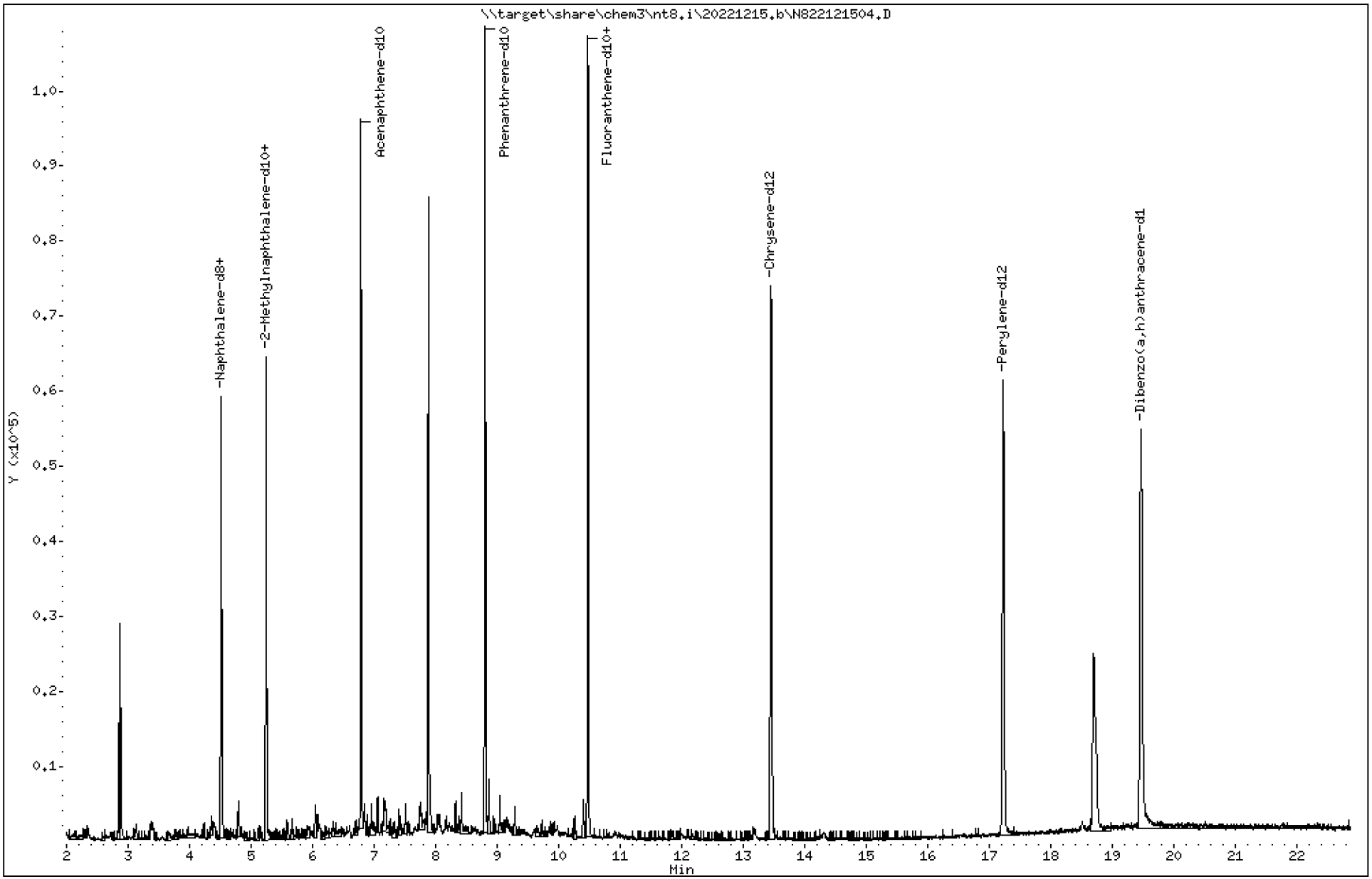
Laboratory:	Analytical Resources, LLC			SDG:	22L0136
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Solid	Laboratory ID:	BKL0196-BLK1	File ID:	N822121504.D
Sampled:	N/A	Prepared:	12/09/22 14:08	Analyzed:	12/15/22 16:14
Solids:		Preparation:	EPA 3546 (Microwave)	Initial/Final:	10 g / 0.5 mL
Batch:	BKL0196	Sequence:	SKL0227	Calibration:	FD00034
Instrument:	NT8	Column:	RXI-17Sil ms	Cleanups:	GPC, Silica Gel

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
91-20-3	Naphthalene	1	5.00	U	1.28	5.00
91-57-6	2-Methylnaphthalene	1	1.15	J	1.10	5.00
208-96-8	Acenaphthylene	1	5.00	U	1.08	5.00
83-32-9	Acenaphthene	1	0.93	J	0.57	5.00
86-73-7	Fluorene	1	0.69	J	0.63	5.00
85-01-8	Phenanthrene	1	1.15	J	0.72	5.00
120-12-7	Anthracene	1	5.00	U	0.87	5.00
206-44-0	Fluoranthene	1	0.59	J	0.47	5.00
129-00-0	Pyrene	1	0.70	J	0.63	5.00
56-55-3	Benzo(a)anthracene	1	5.00	U	0.82	5.00
218-01-9	Chrysene	1	5.00	U	1.05	5.00
205-99-2	Benzo(b)fluoranthene	1	5.00	U	1.37	5.00
207-08-9	Benzo(k)fluoranthene	1	5.00	U	0.76	5.00
50-32-8	Benzo(a)pyrene	1	5.00	U	0.61	5.00
193-39-5	Indeno(1,2,3-cd)pyrene	1	5.00	U	1.05	5.00
53-70-3	Dibenzo(a,h)anthracene	1	5.00	U	0.89	5.00
191-24-2	Benzo(g,h,i)perylene	1	5.00	U	1.07	5.00

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
2-Methylnaphthalene-d10	150.00	69.3	46.2	32 - 120	
Dibenzo[a,h]anthracene-d14	150.00	137	91.0	21 - 133	
Fluoranthene-d10	150.00	89.7	59.8	36 - 134	

Data File: \\target\share\chem3\nt8.i\20221215.b\N822121504.D
Date : 15-DEC-2022 16:14
Client ID:
Sample Info: BKL0196-BLK1,

Instrument: nt8.i
Operator: JZ
Column phase: Rxi-17sil
Column diameter: 0.25



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Date : 15-DEC-2022 16:14

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BLK1,

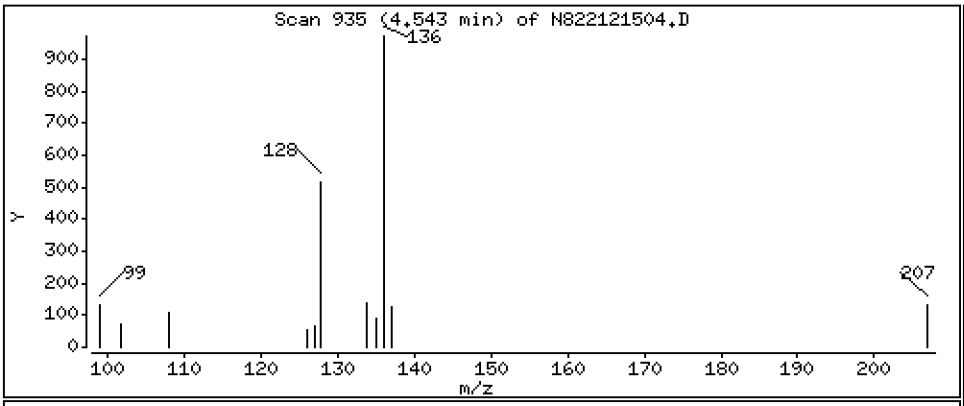
Operator: JZ

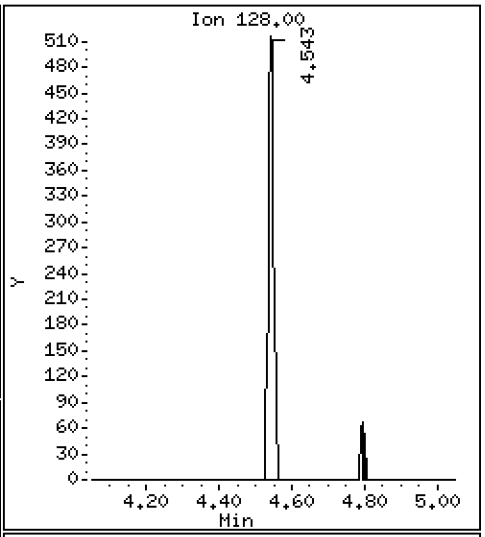
Column phase: Rxi-17sil

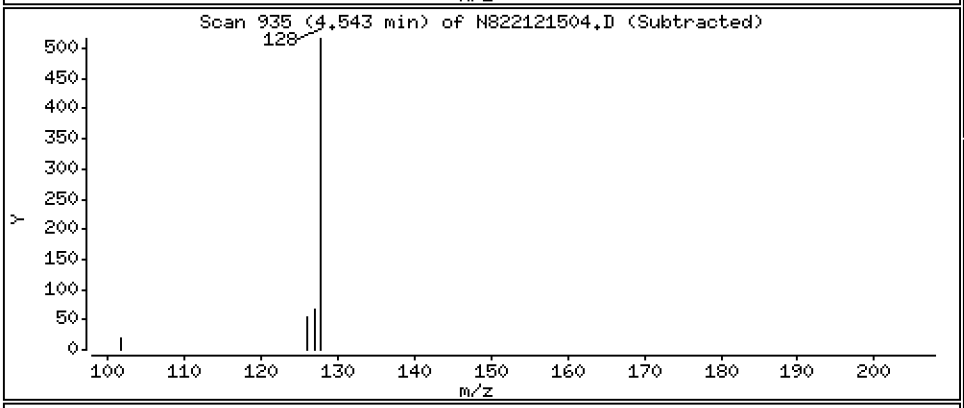
Column diameter: 0.25

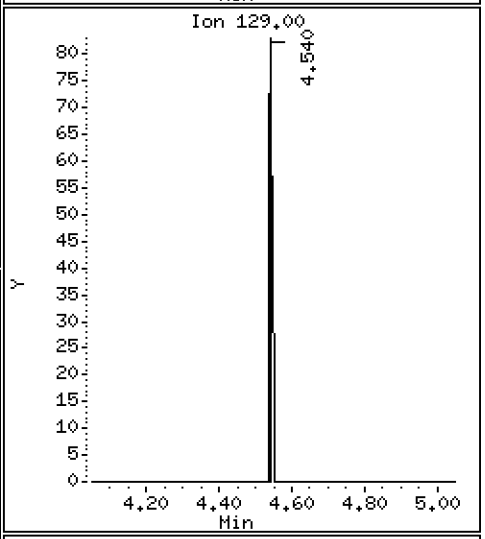
2 Naphthalene

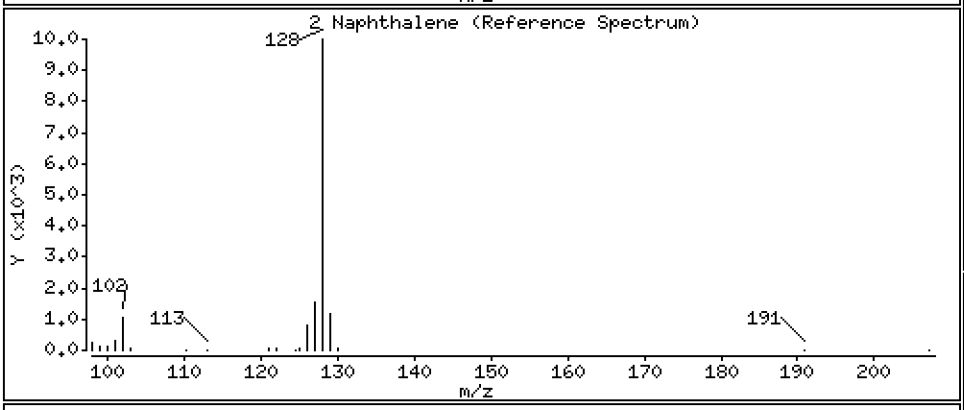
Concentration: 0.02525 ug/mL

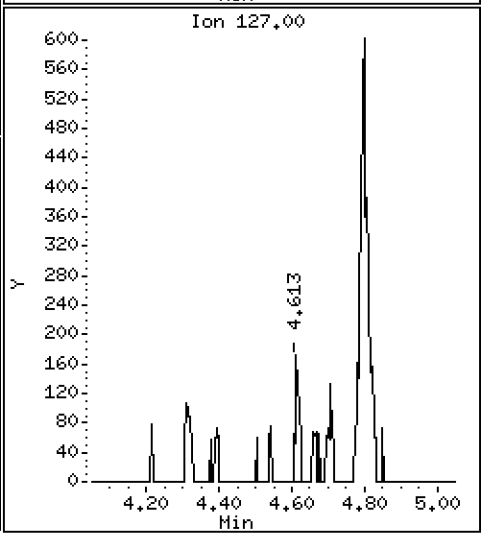


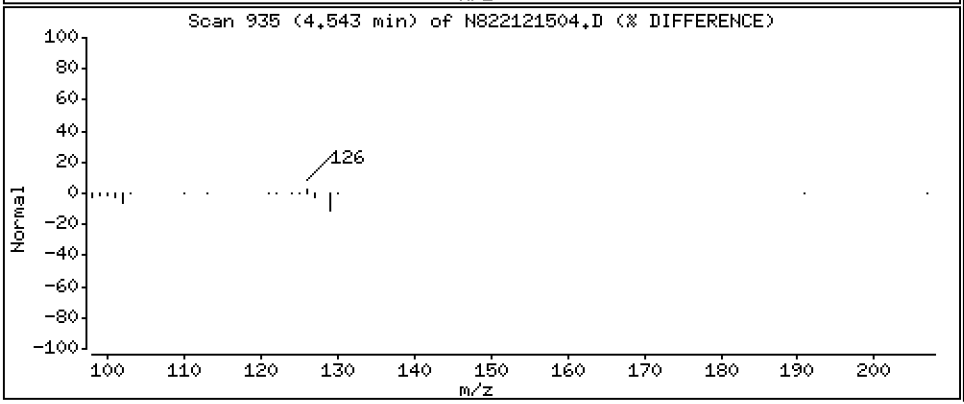












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Date : 15-DEC-2022 16:14

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BLK1,

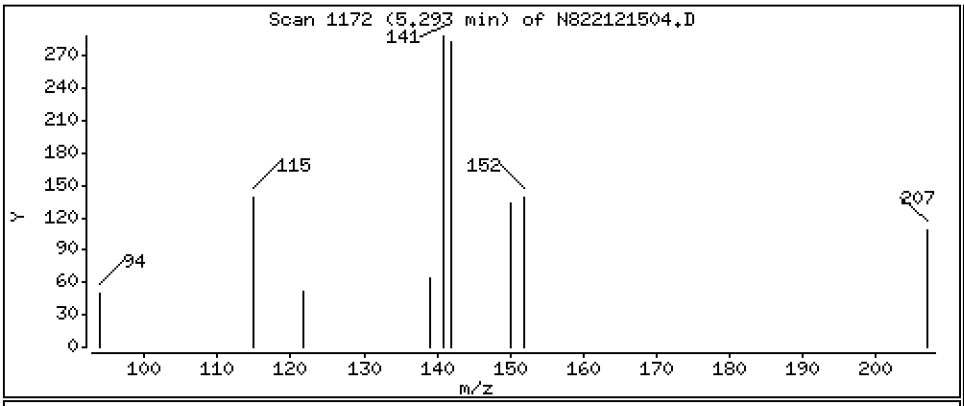
Operator: JZ

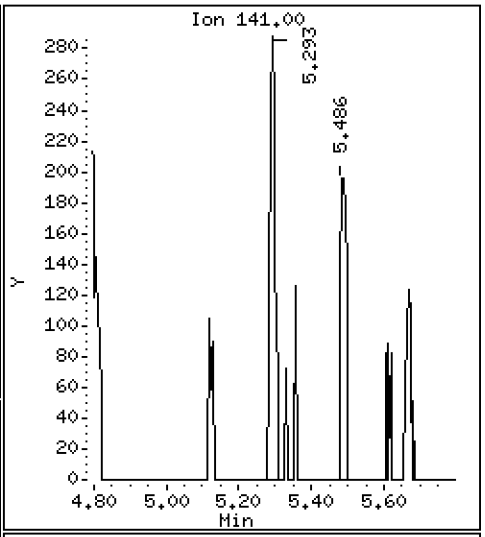
Column phase: Rxi-17sil

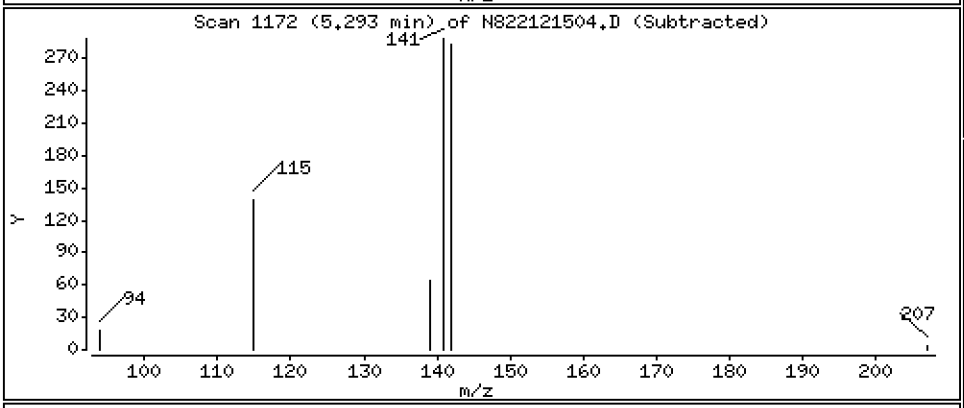
Column diameter: 0.25

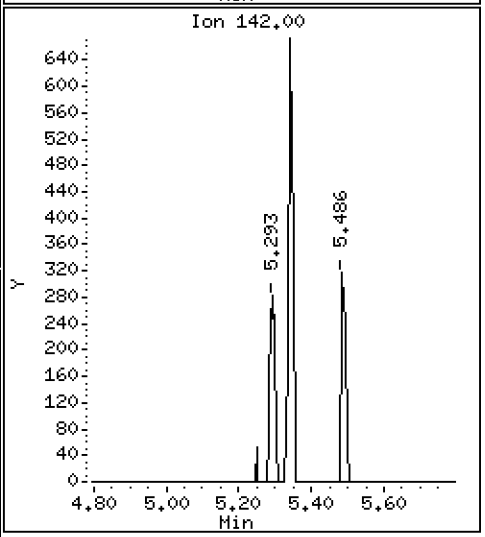
4 2-Methylnaphthalene

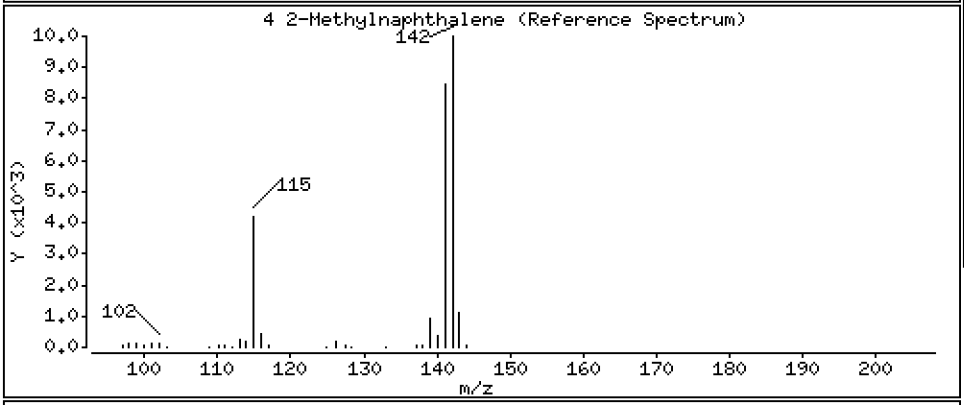
Concentration: 0.02306 ug/mL

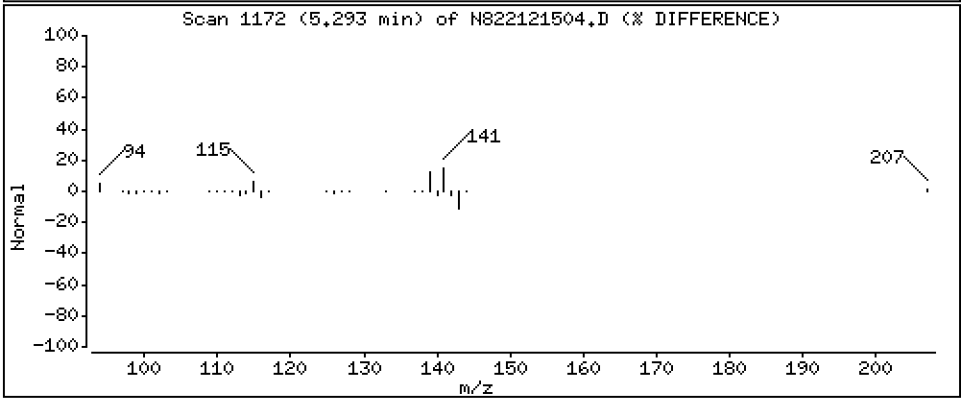












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Date : 15-DEC-2022 16:14

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BLK1,

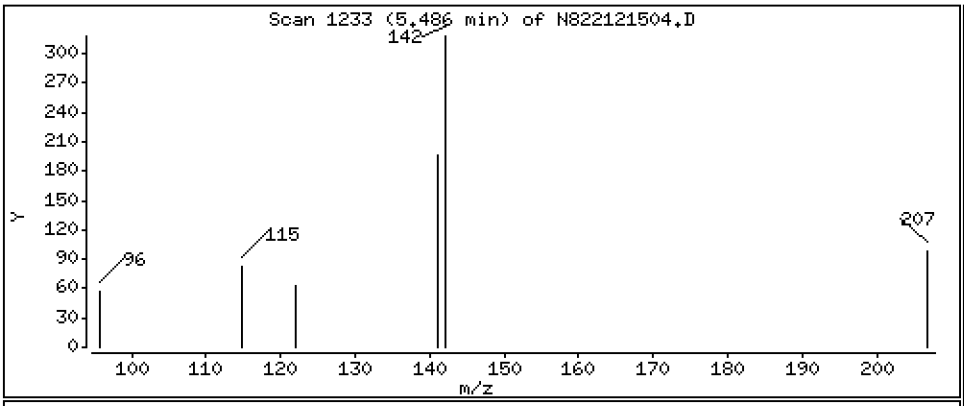
Operator: JZ

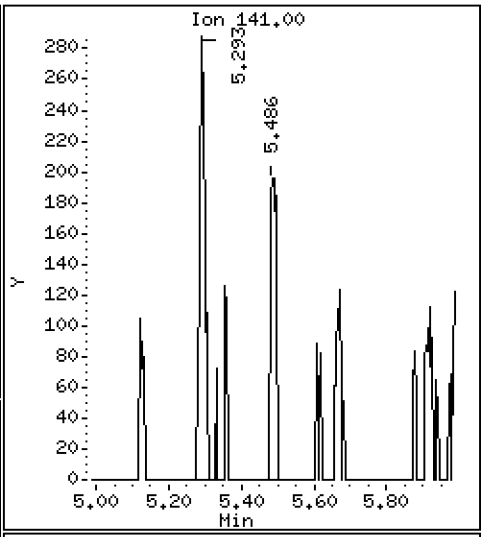
Column phase: Rxi-17sil

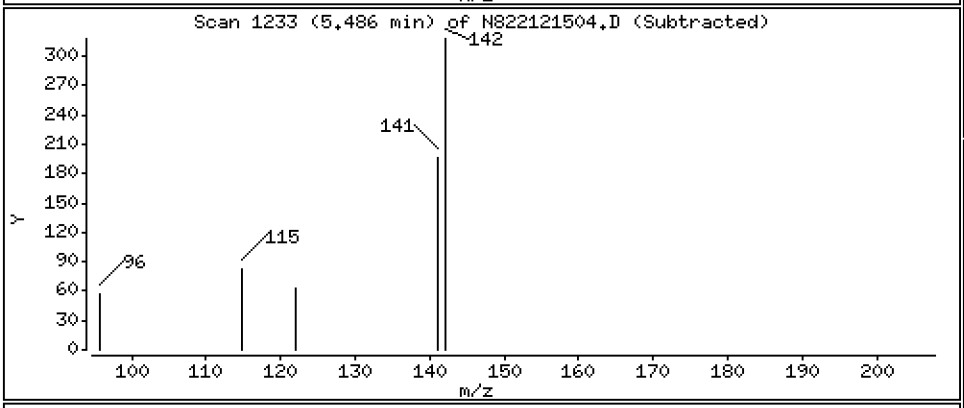
Column diameter: 0.25

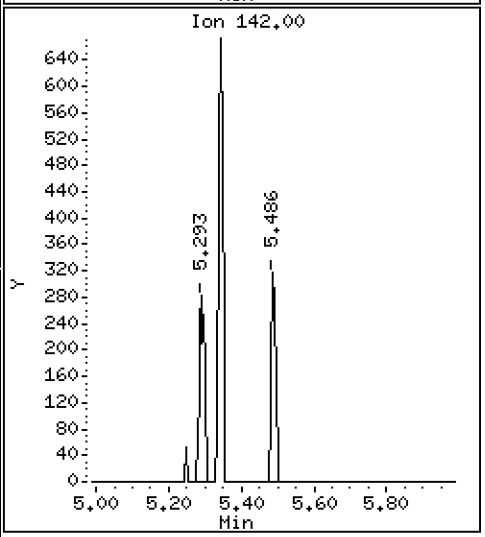
5 1-methylnaphthalene

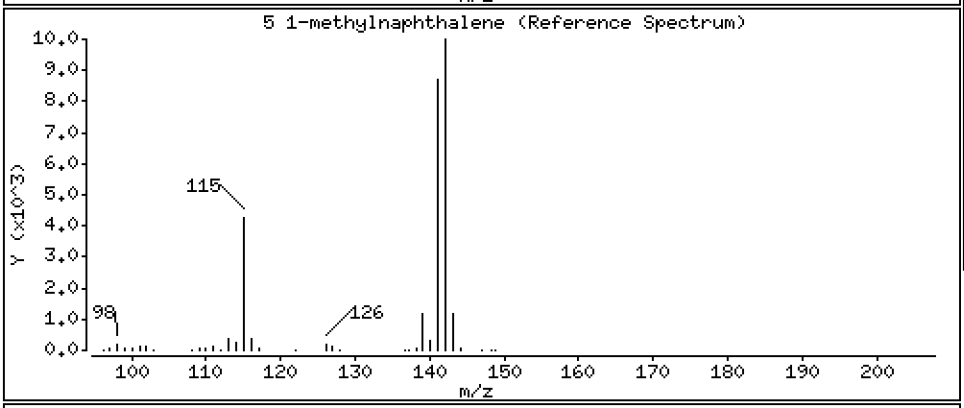
Concentration: 0.01759 ug/mL

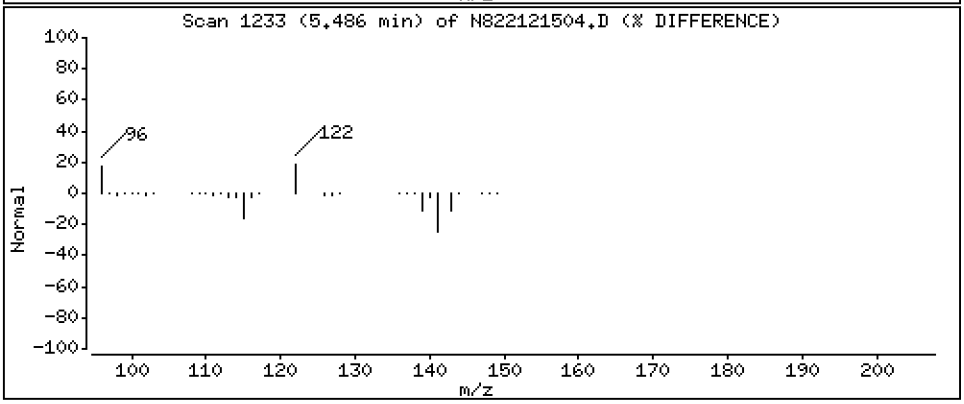












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Date : 15-DEC-2022 16:14

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BLK1,

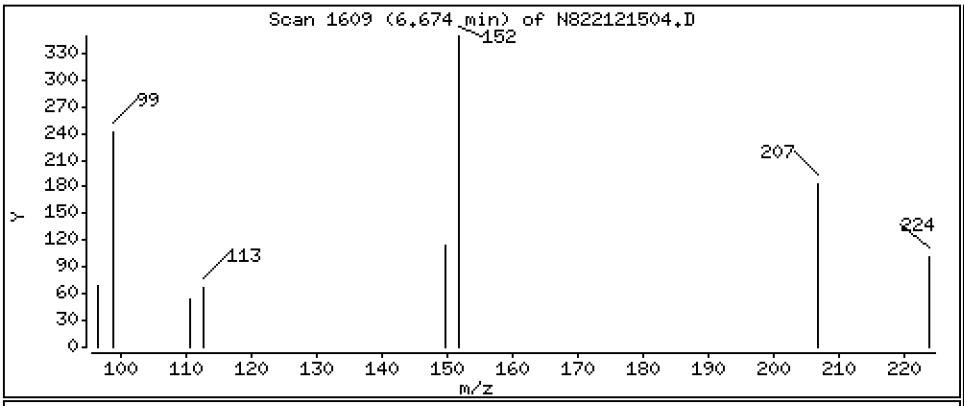
Operator: JZ

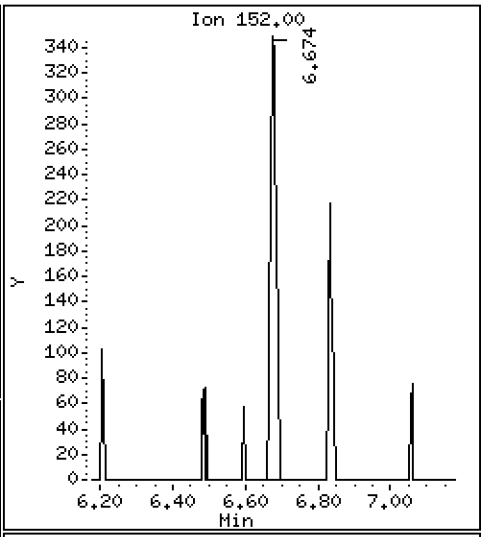
Column phase: Rxi-17sil

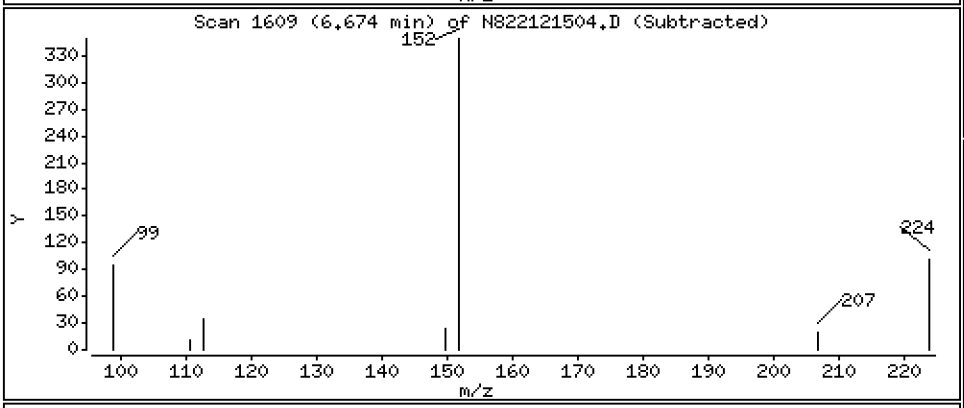
Column diameter: 0.25

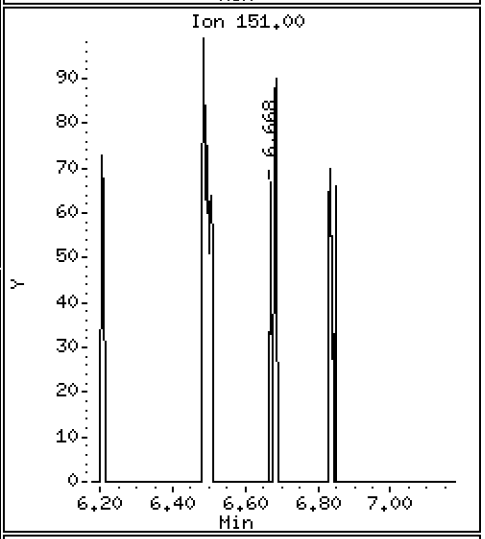
9 Acenaphthylene

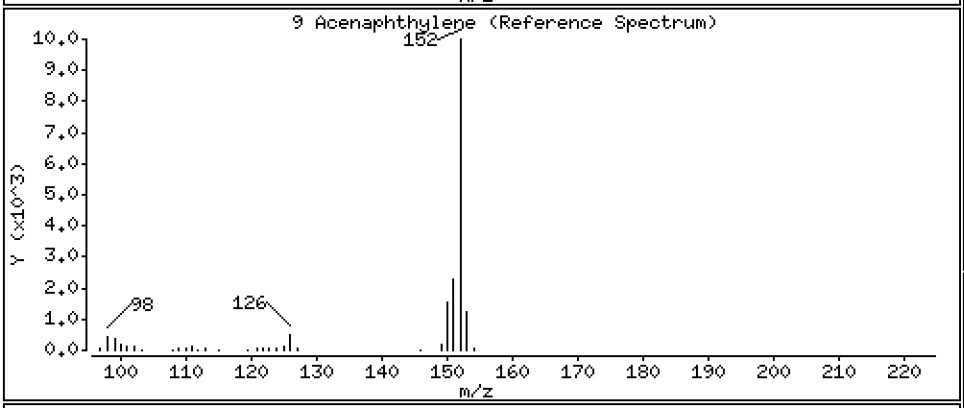
Concentration: 0.01749 ug/mL

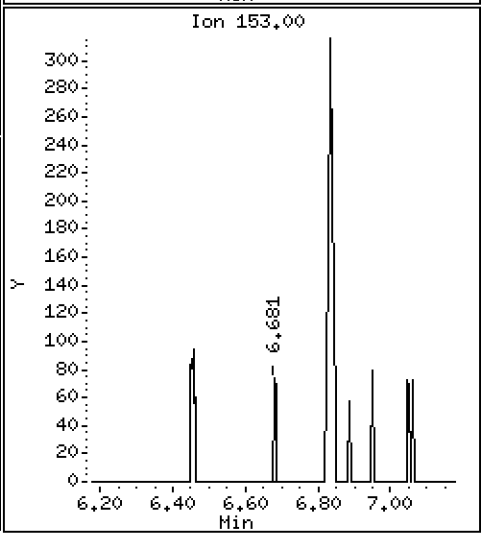


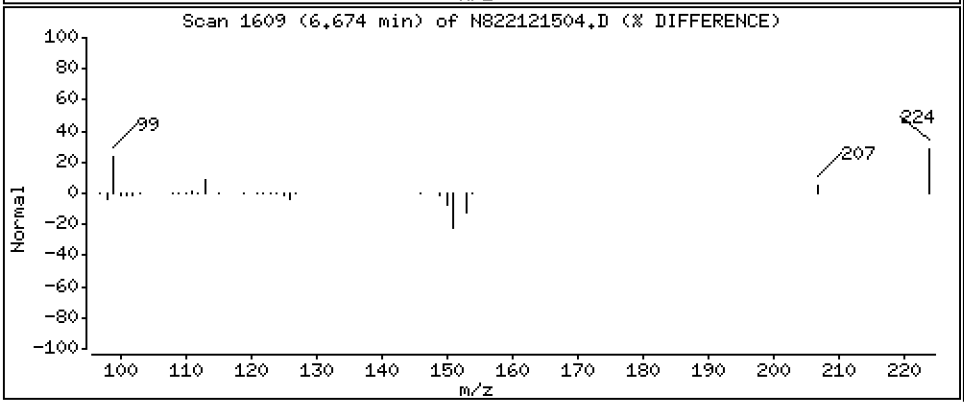












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Date : 15-DEC-2022 16:14

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BLK1,

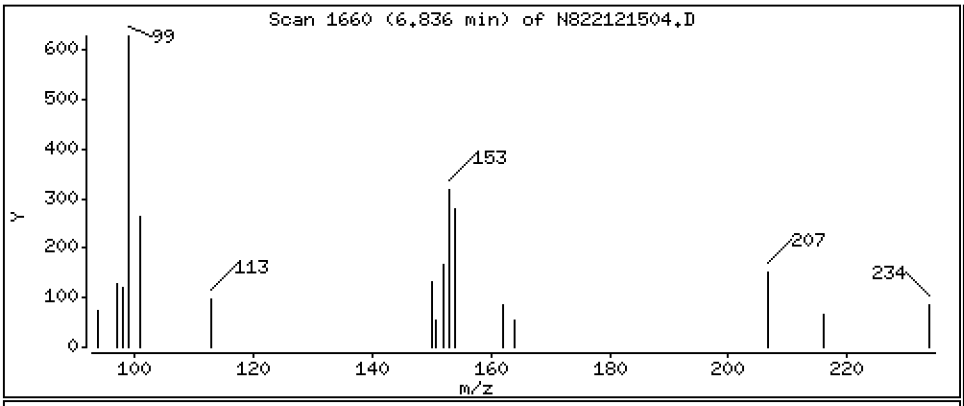
Operator: JZ

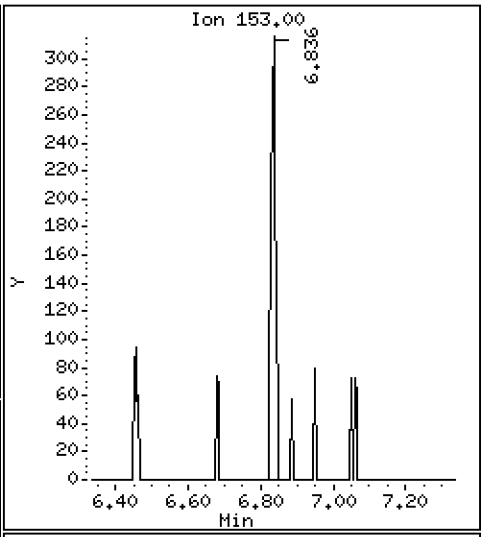
Column phase: Rxi-17sil

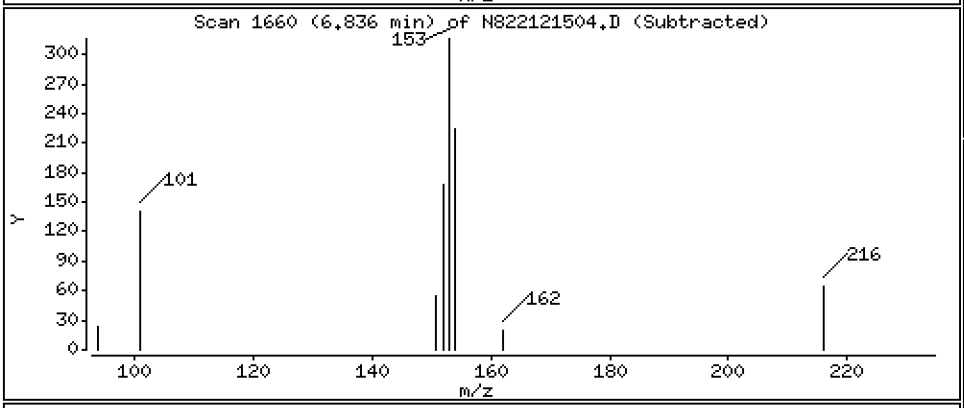
Column diameter: 0.25

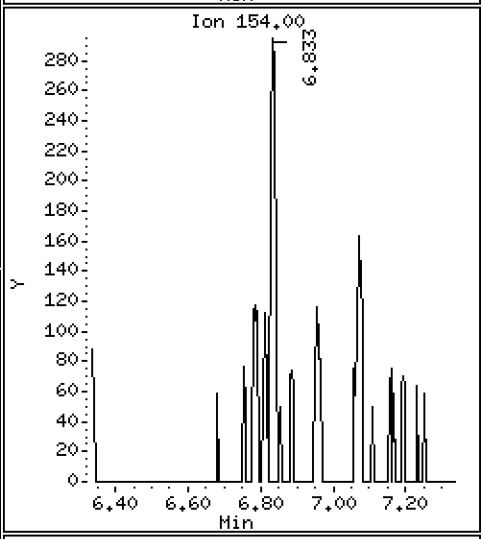
11 Acenaphthene

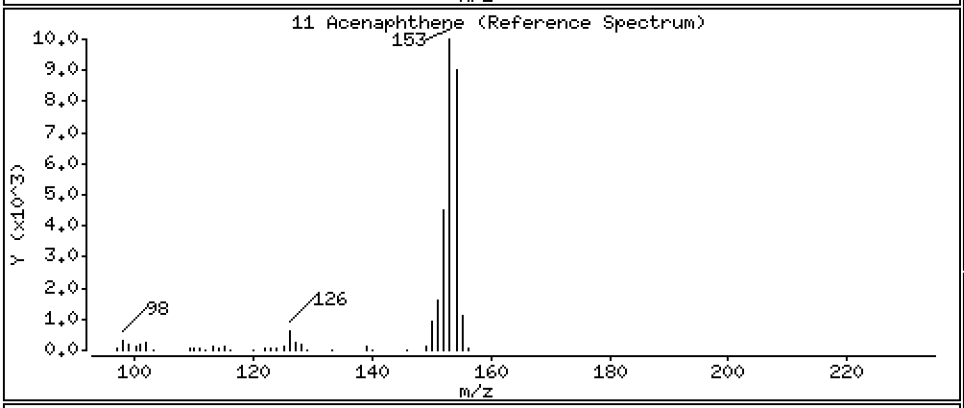
Concentration: 0.01855 ug/mL

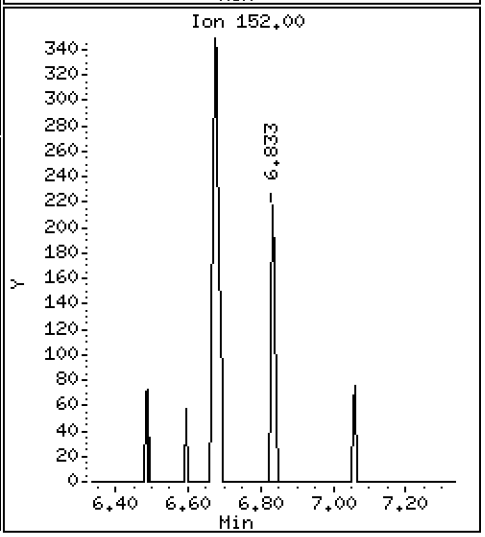


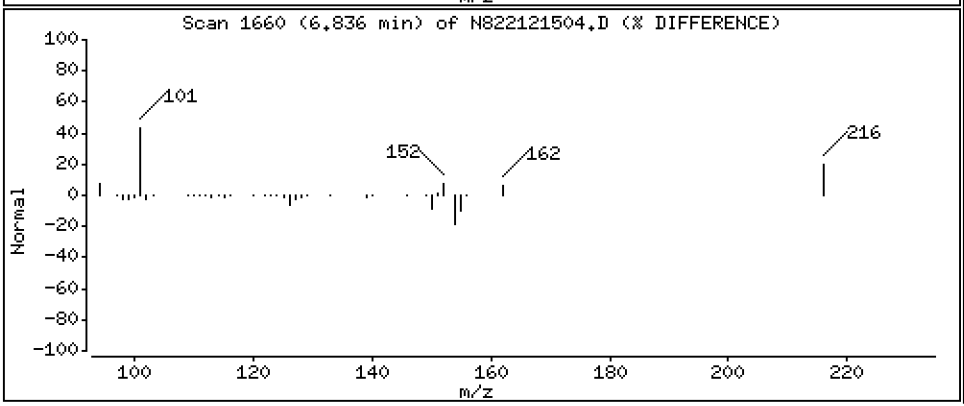












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Date : 15-DEC-2022 16:14

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BLK1,

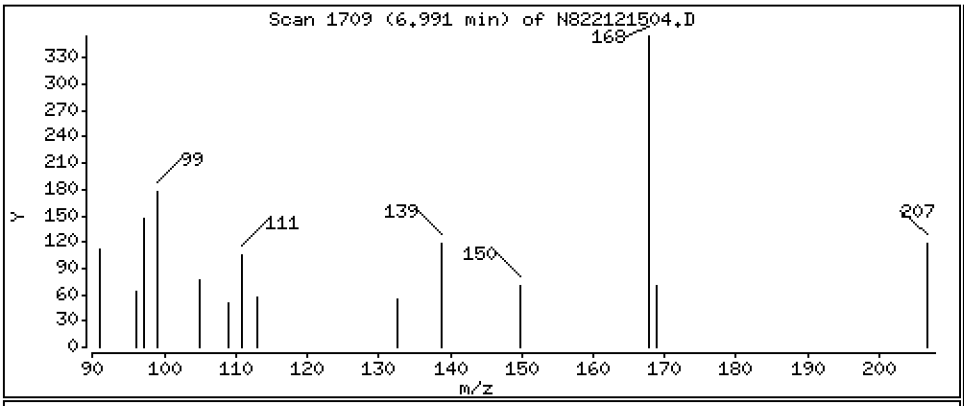
Operator: JZ

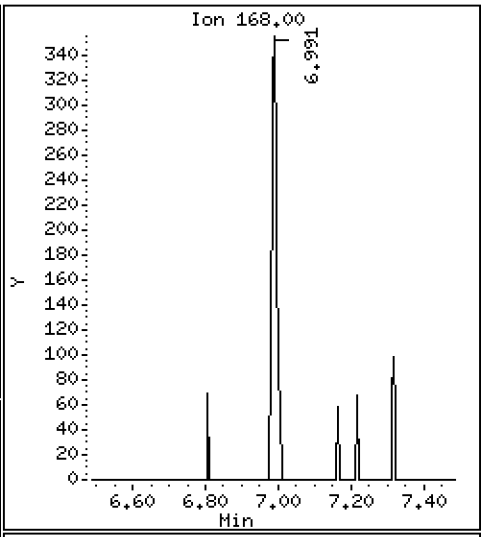
Column phase: Rxi-17sil

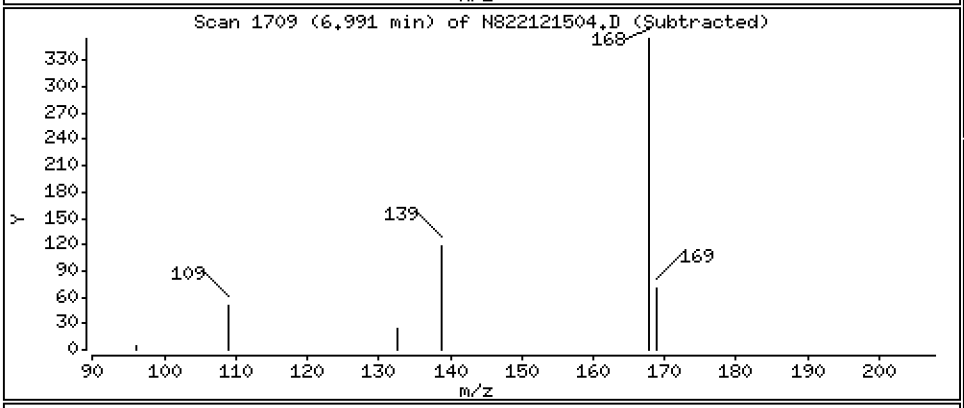
Column diameter: 0.25

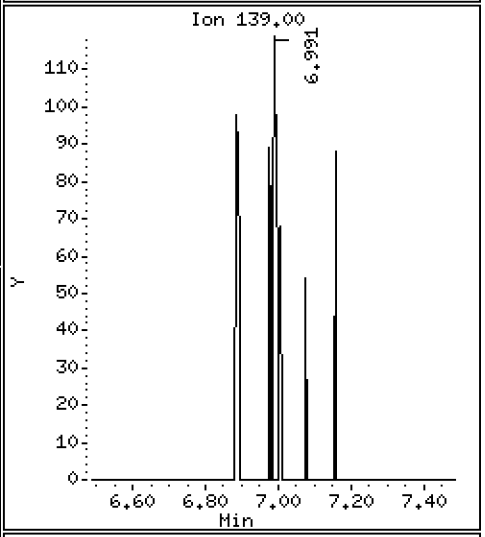
12 Dibenzofuran

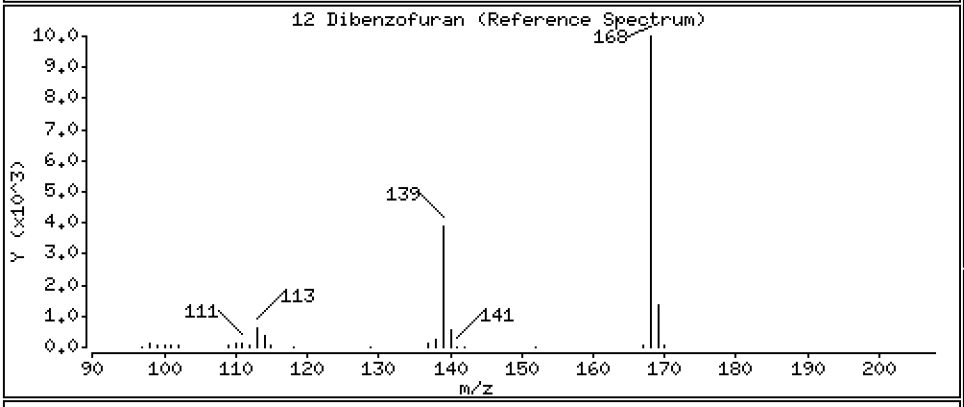
Concentration: 0.01569 ug/mL

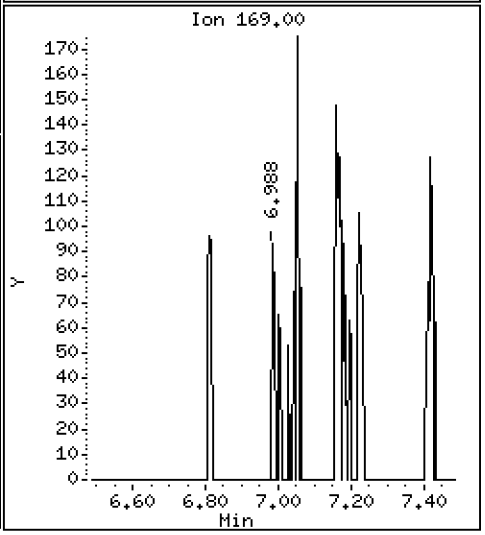


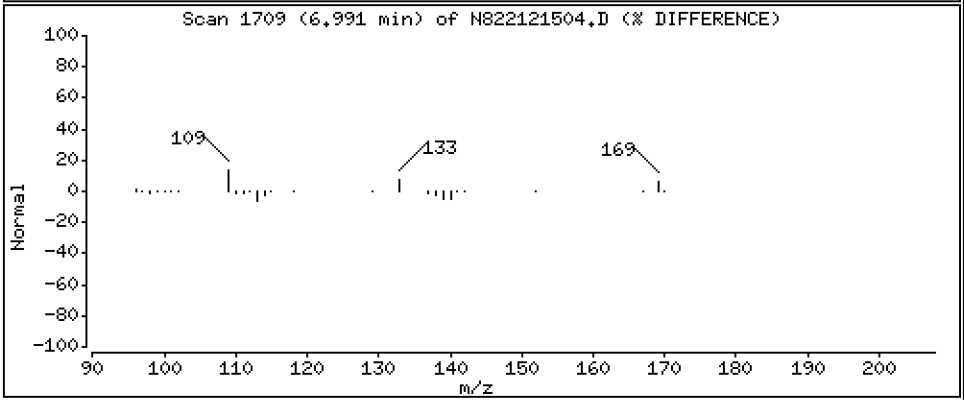












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Date : 15-DEC-2022 16:14

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BLK1,

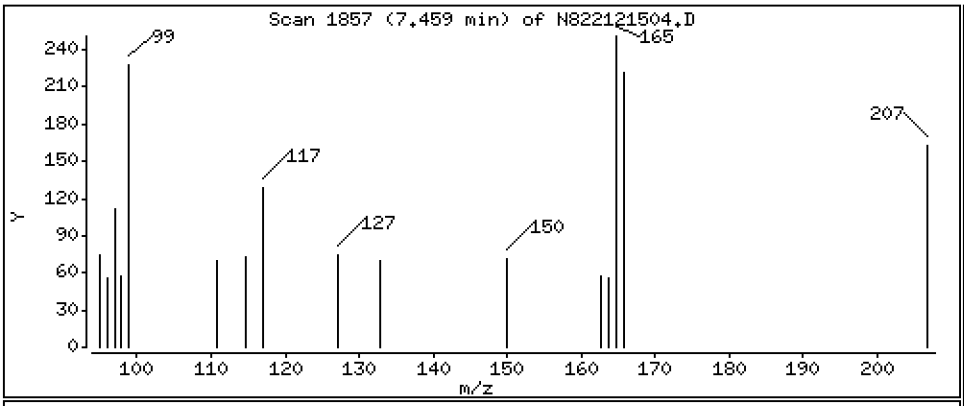
Operator: JZ

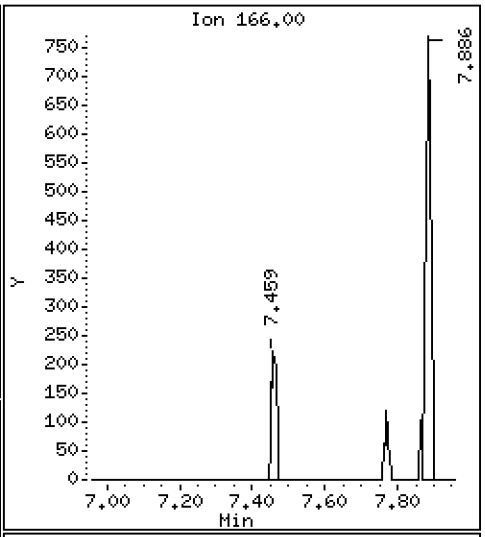
Column phase: Rxi-17sil

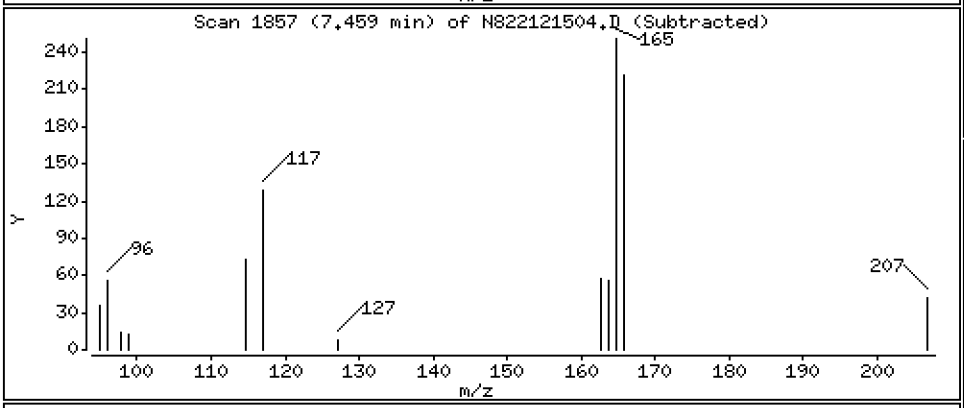
Column diameter: 0.25

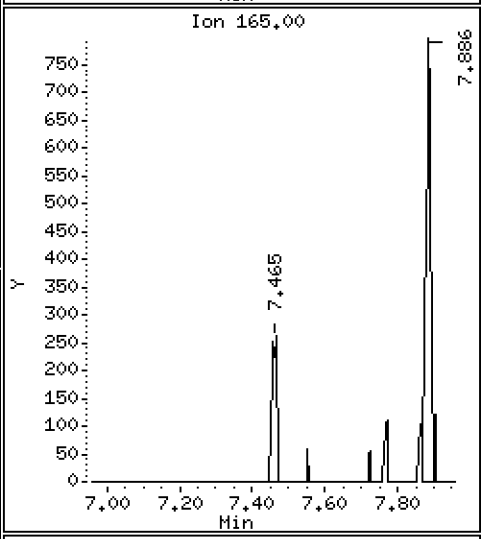
14 Fluorene

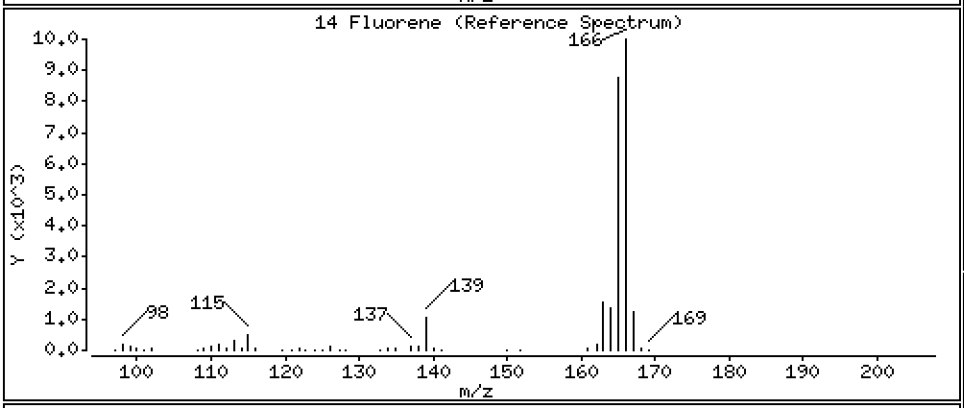
Concentration: 0.01372 ug/mL

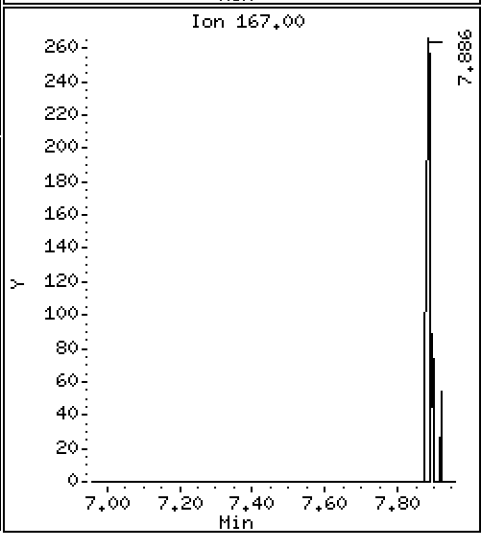


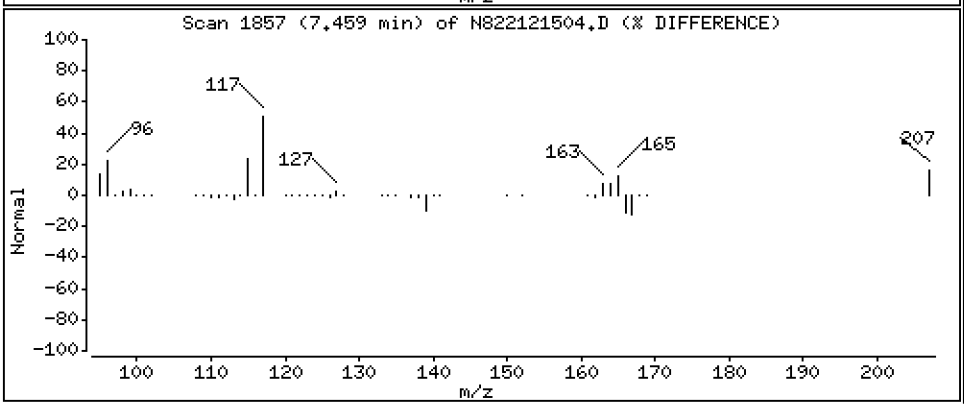












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Date : 15-DEC-2022 16:14

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BLK1,

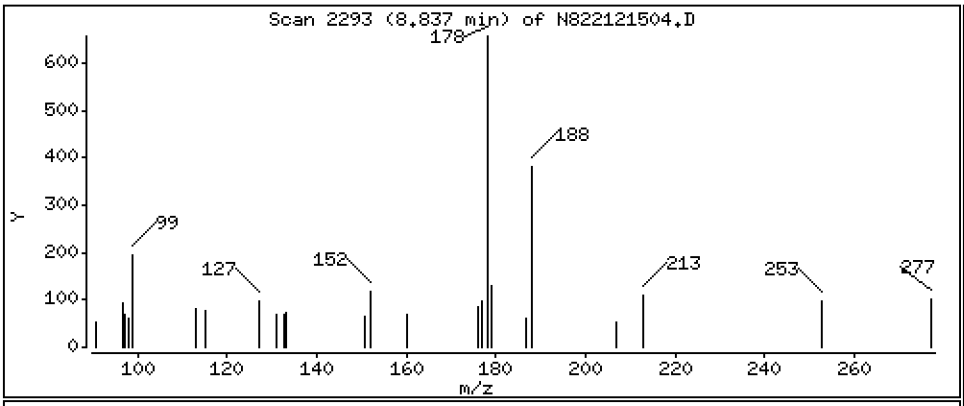
Operator: JZ

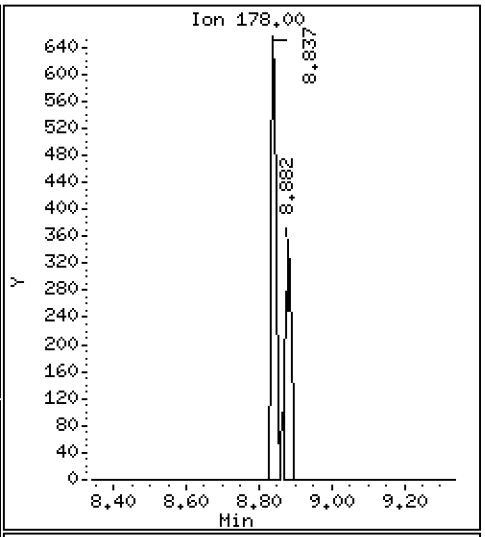
Column phase: Rxi-17sil

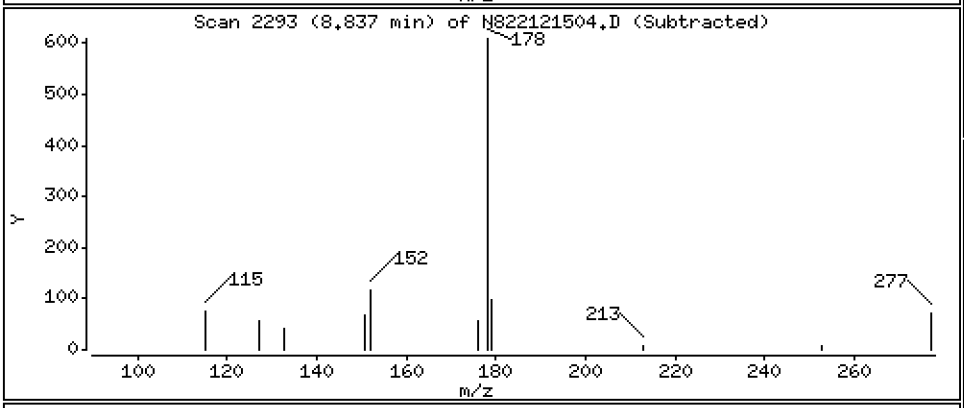
Column diameter: 0.25

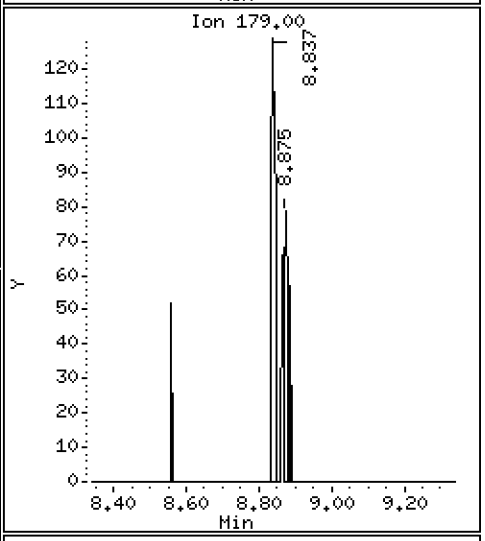
16 Phenanthrene

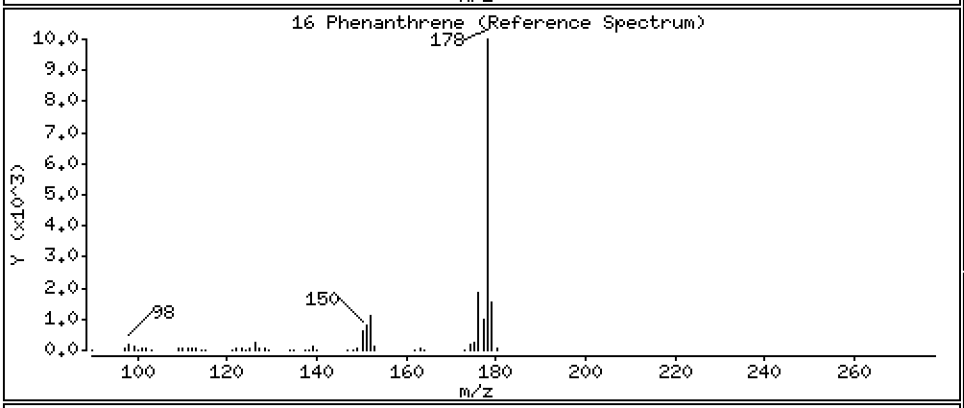
Concentration: 0.02293 ug/mL

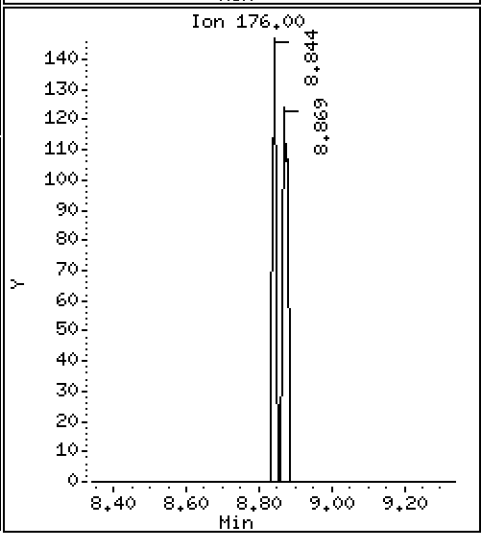


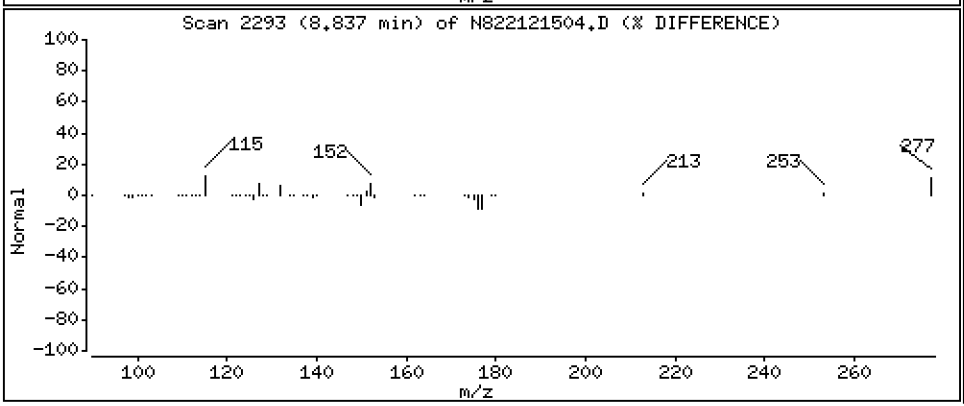












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Date : 15-DEC-2022 16:14

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BLK1,

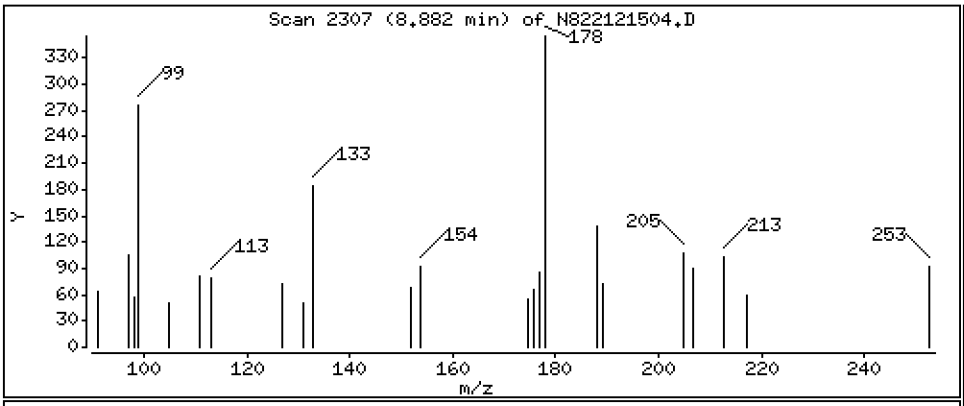
Operator: JZ

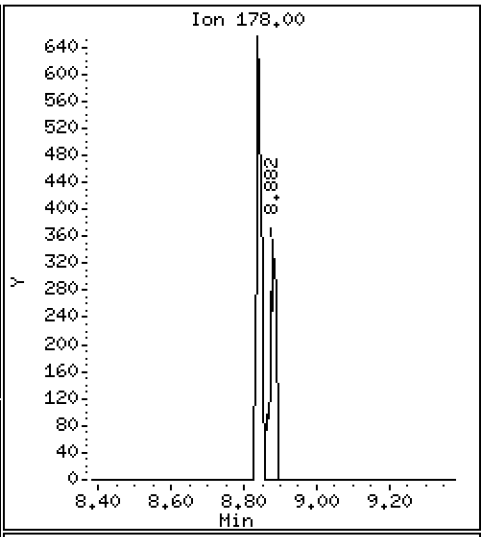
Column phase: Rxi-17sil

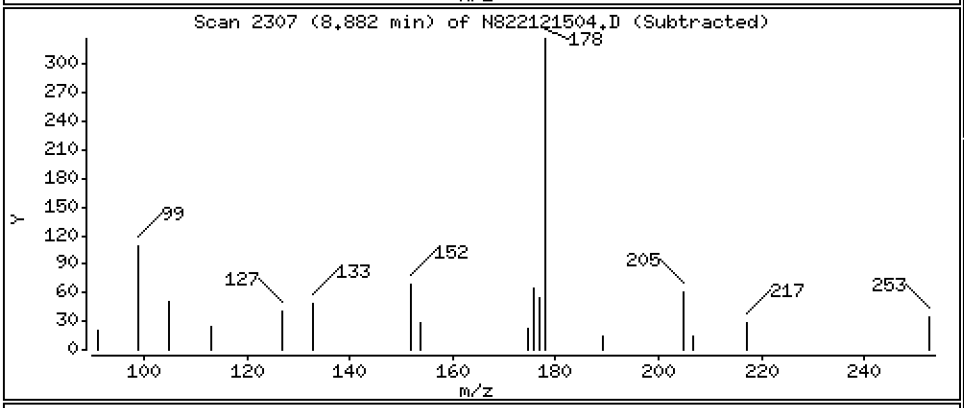
Column diameter: 0.25

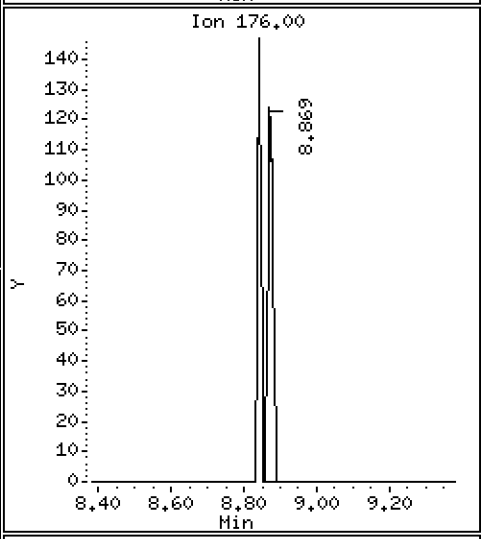
17 Anthracene

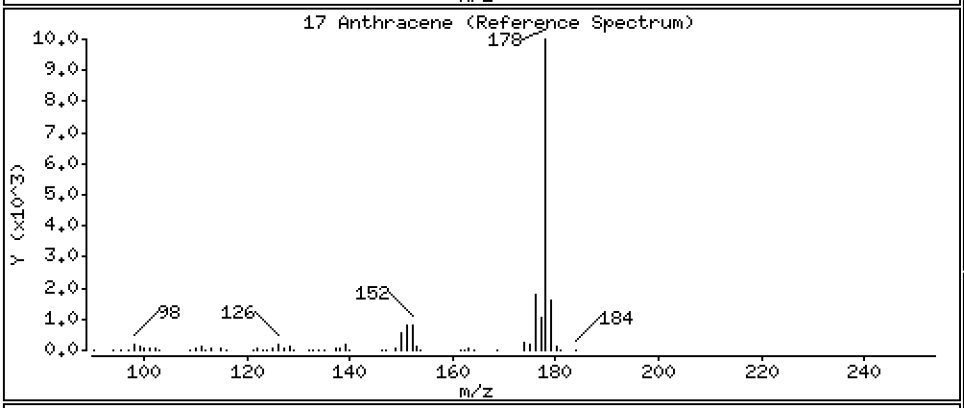
Concentration: 0.01586 ug/mL

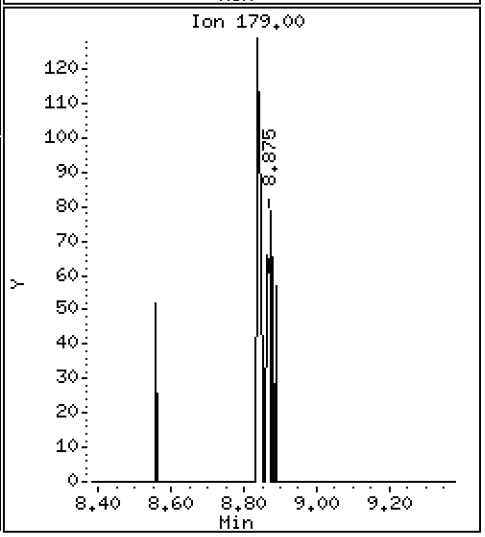


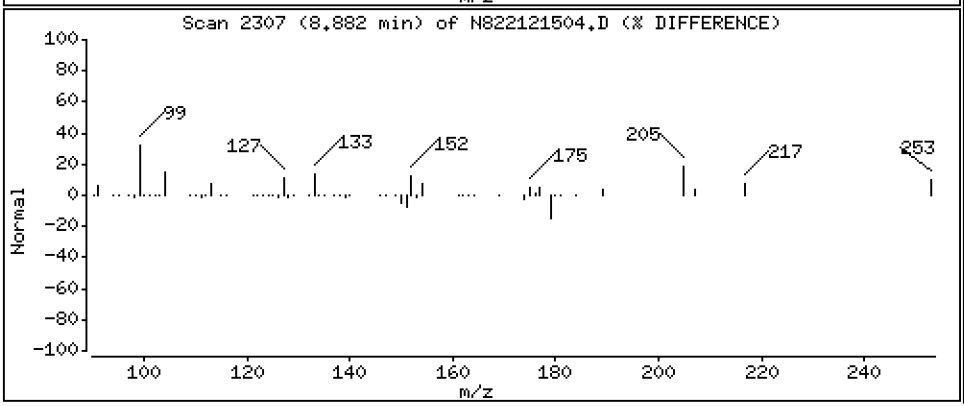












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Date : 15-DEC-2022 16:14

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BLK1,

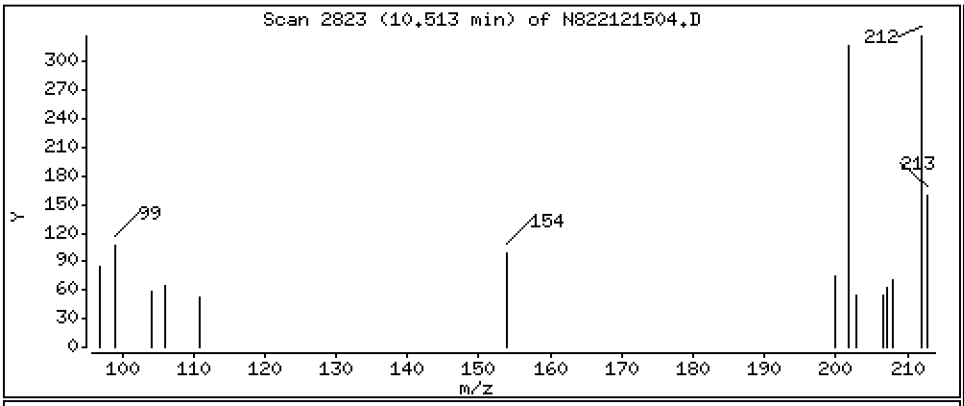
Operator: JZ

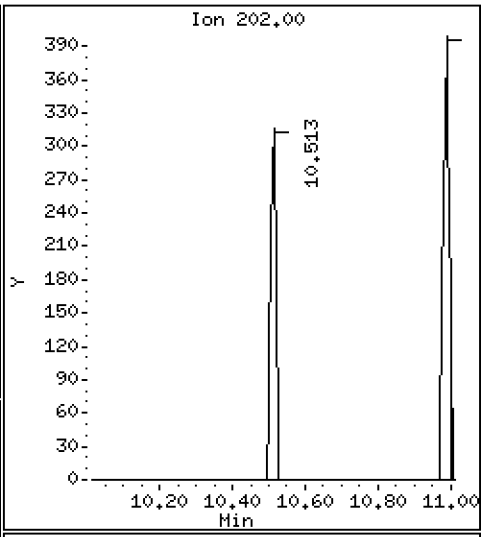
Column phase: Rxi-17sil

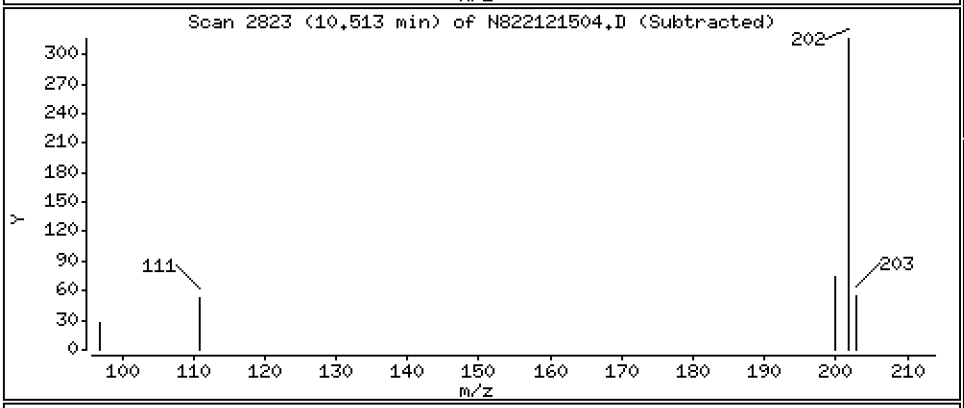
Column diameter: 0.25

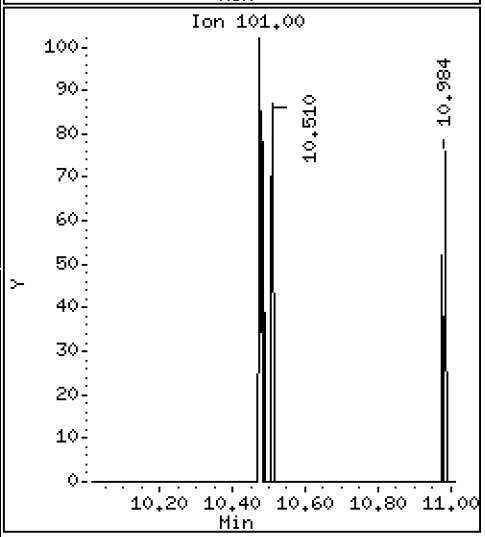
22 Fluoranthene

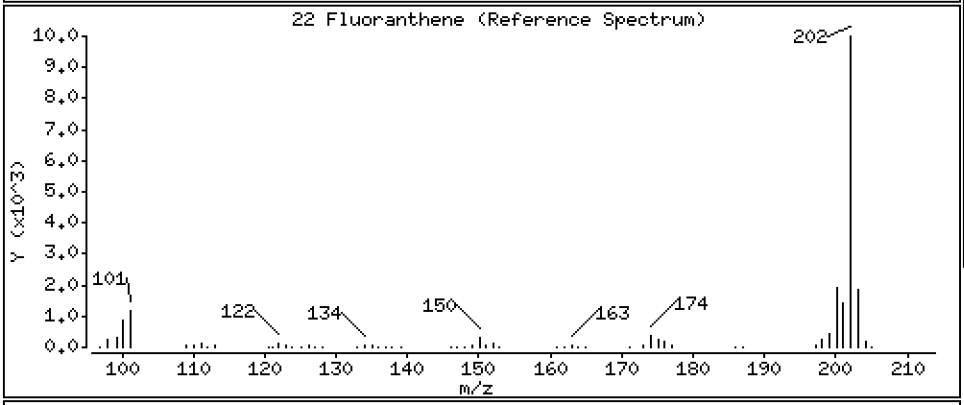
Concentration: 0.01172 ug/mL

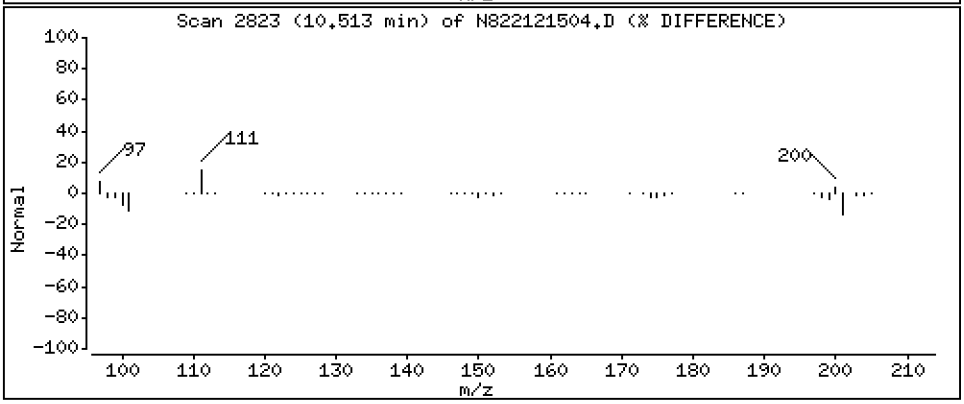












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121504.D

Date : 15-DEC-2022 16:14

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BLK1,

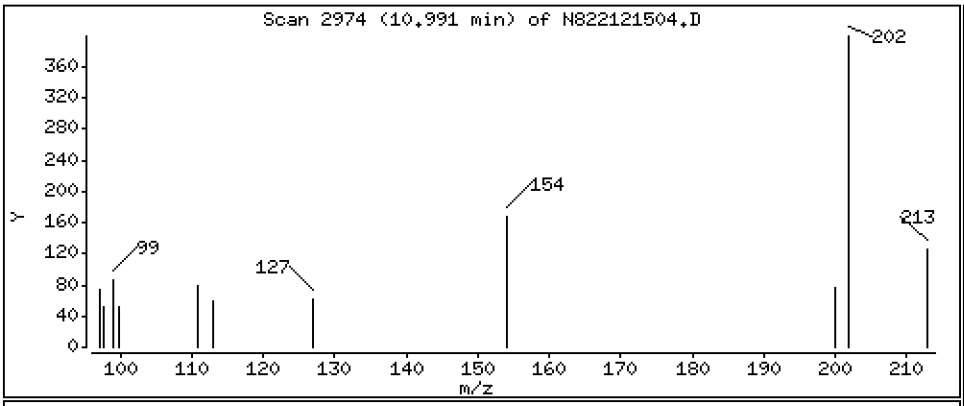
Operator: JZ

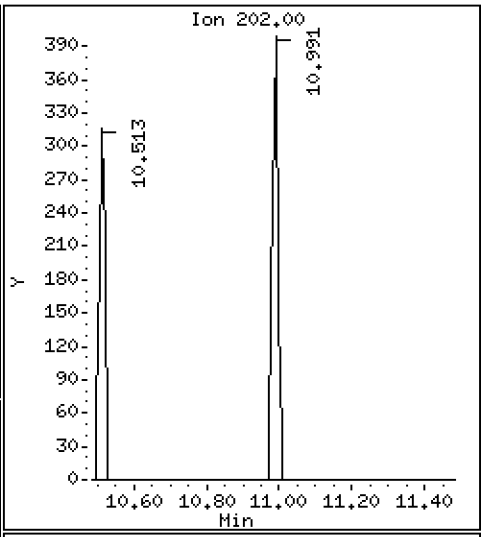
Column phase: Rxi-17sil

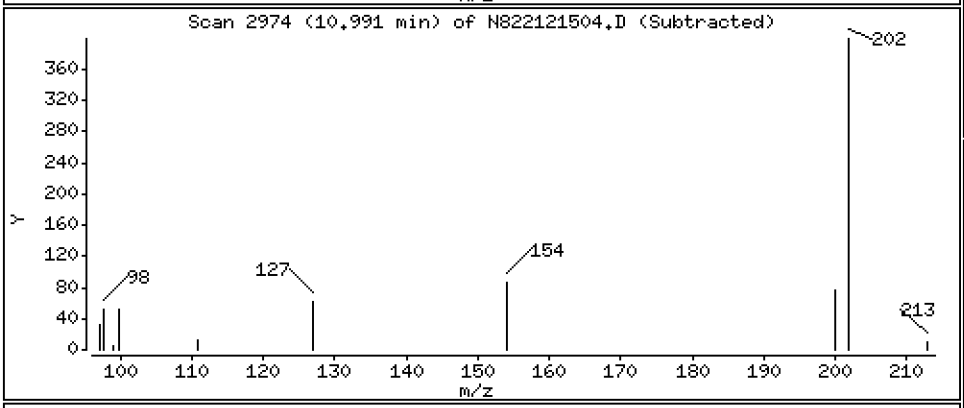
Column diameter: 0.25

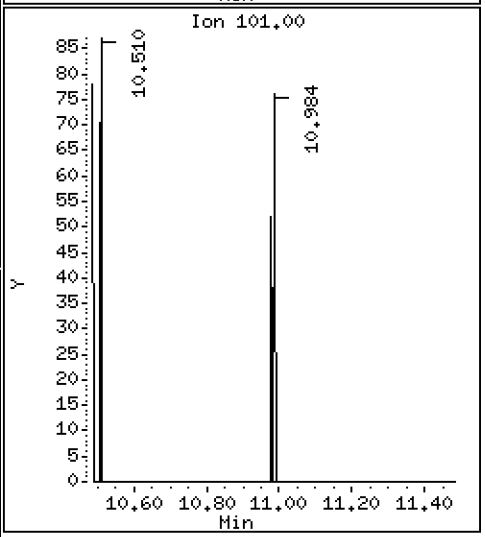
23 Pyrene

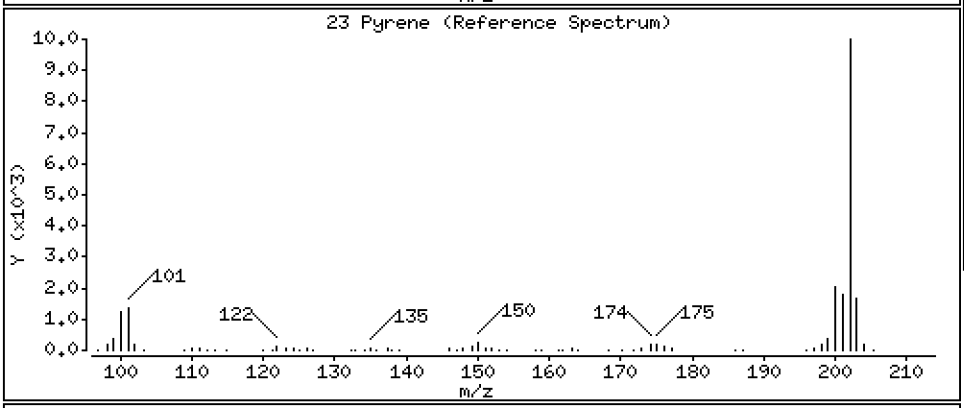
Concentration: 0.01400 ug/mL

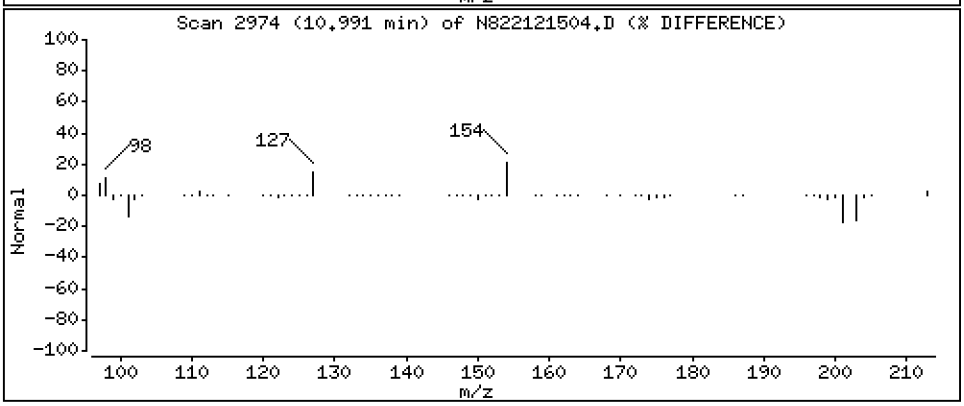












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20221215.b\N822121504.D
Lab Smp Id: BKL0196-BLK1
Inj Date : 15-DEC-2022 16:14
Operator : JZ Inst ID: nt8.i
Smp Info : BKL0196-BLK1,
Misc Info : 22-
Comment   : 1ul Injection
Method   : \\target\share\chem3\nt8.i\20221215.b\FSIMPNA220411.m
Meth Date : 16-Dec-2022 15:49 jianqing Quant Type: ISTD
Cal Date : 12-APR-2022 15:49 Cal File: NT822041208.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PNAXMDL.sub
Target Version: 4.14
Processing Host: JIANQING-202105

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
*	1 Naphthalene-d8	136	4.514	4.521	(1.000)	45565	2.00000	
	2 Naphthalene	128	4.543	4.549	(1.006)	583	0.02525	0.02525
$	3 2-Methylnaphthalene-d10	152	5.245	5.248	(1.162)	23813	1.38564	1.386
	4 2-Methylnaphthalene	141	5.292	5.295	(1.172)	303	0.02306	0.02306
	5 1-methylnaphthalene	141	5.485	5.488	(1.215)	226	0.01759	0.01759
	9 Acenaphthylene	152	6.674	6.677	(0.984)	412	0.01749	0.01749
*	10 Acenaphthene-d10	164	6.785	6.785	(1.000)	27263	2.00000	
	11 Acenaphthene	153	6.835	6.835	(1.007)	290	0.01855	0.01855
	12 Dibenzofuran	168	6.990	6.987	(1.030)	344	0.01569	0.01569
	14 Fluorene	166	7.458	7.458	(1.099)	242	0.01372	0.01372
*	15 Phenanthrene-d10	188	8.805	8.805	(1.000)	52608	2.00000	
	16 Phenanthrene	178	8.837	8.840	(1.004)	640	0.02293	0.02293
	17 Anthracene	178	8.881	8.881	(1.009)	424	0.01586	0.01586(M)
	22 Fluoranthene	202	10.513	10.512	(1.194)	358	0.01172	0.01172
$	21 Fluoranthene-d10	212	10.478	10.478	(1.190)	62441	1.79494	1.795
	23 Pyrene	202	10.990	10.984	(0.817)	476	0.01400	0.01400
	24 Benzo(a)anthracene	228	Compound Not Detected.					
*	25 Chrysene-d12	240	13.456	13.453	(1.000)	50312	2.00000	
	27 Chrysene	228	Compound Not Detected.					
	28 Benzo(b)fluoranthene	252	Compound Not Detected.					
	29 Benzo(k)fluoranthene	252	Compound Not Detected.					
	30 Benzo(j)fluoranthene	252	Compound Not Detected.					
	31 Total Benzofluoranthenes	252	Compound Not Detected.					
	32 Benzo(a)pyrene	252	Compound Not Detected.					
*	33 Perylene-d12	264	17.232	17.229	(1.000)	49252	2.00000	
	35 Perylene	252	Compound Not Detected.					
$	36 Dibenzo(a,h)anthracene-d14	292	19.470	19.470	(1.130)	57783	2.73100	2.731
	37 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	38 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	39 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt8.i
Lab File ID: N822121504.D
Lab Smp Id: BKL0196-BLK1
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: \\target\share\chem3\nt8.i\20221215.b\FSIMPNA220411.m
Misc Info: 22-

Calibration Date: 15-DEC-2022
Calibration Time: 10:02
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	49492	24746	98984	45565	-7.93
10 Acenaphthene-d10	30076	15038	60152	27263	-9.35
15 Phenanthrene-d10	58825	29413	117650	52608	-10.57
25 Chrysene-d12	58593	29297	117186	50312	-14.13
33 Perylene-d12	63012	31506	126024	49252	-21.84

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	4.52	4.02	5.02	4.51	-0.14
10 Acenaphthene-d10	6.79	6.29	7.29	6.79	0.00
15 Phenanthrene-d10	8.81	8.31	9.31	8.81	0.00
25 Chrysene-d12	13.45	12.95	13.95	13.46	0.02
33 Perylene-d12	17.23	16.73	17.73	17.23	0.02

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

REVIEW SUMMARY FOR FILE - N822121504.D

Lab ID: BKL0196-BLK1
nt8.i, 20221215.b\FSIMPNA220411.m,   15-DEC-2022 16:14

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

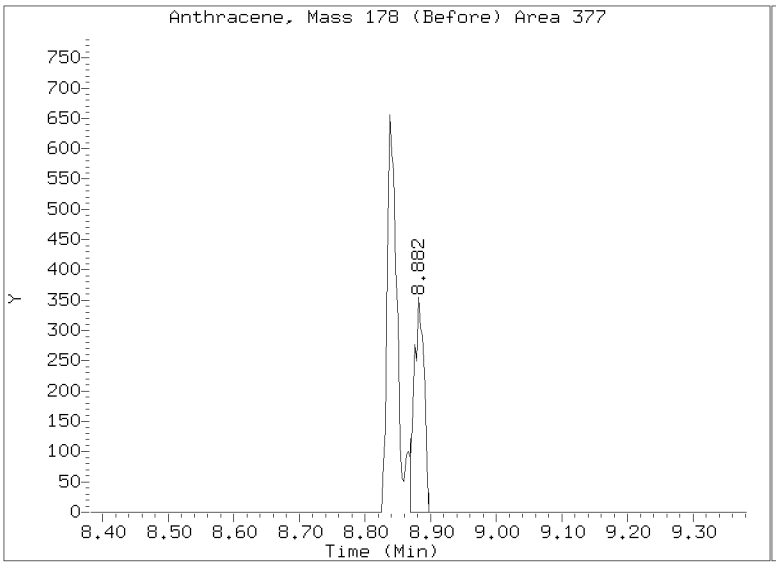
No RRT check performed

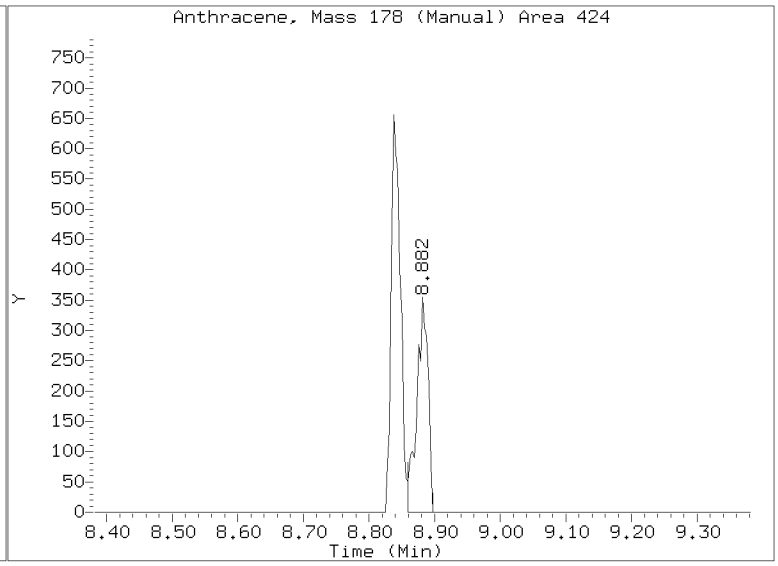
On Column LOD for nt8.i, 20221215.b\FSIMPNA220411.m, PNAXMDL.sub = 0.0080

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20221215.b/N822121504.D
Injection Date: 15-DEC-2022 16:14
Lab ID:BKL0196-BLK1 Client ID:
Report Date: 12/16/2022 16:16





LCS / LCS DUPLICATE RECOVERY

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/15/22 16:41
Batch:	BKL0196	Laboratory ID:	BKL0196-BS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS
Initial/Final:	10 g / 0.5 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Naphthalene	300	129		42.9	36 - 120
2-Methylnaphthalene	300	132		44.1	35 - 120
Acenaphthylene	300	119		39.6	35 - 120
Acenaphthene	300	128		42.6	39 - 120
Fluorene	300	143		47.6	41 - 120
Phenanthrene	300	148		49.3	46 - 120
Anthracene	300	140		46.6	36 - 120
Fluoranthene	300	174		58.2	46 - 120
Pyrene	300	159		52.9	49 - 120
Benzo(a)anthracene	300	173		57.8	42 - 120
Chrysene	300	177		59.1	48 - 120
Benzo(b)fluoranthene	300	164		54.7	52 - 137
Benzo(k)fluoranthene	300	170		56.7	37 - 129
Benzo(a)pyrene	300	149		49.8	36 - 120
Indeno(1,2,3-cd)pyrene	300	207		69.1	67 - 132
Dibenzo(a,h)anthracene	300	215		71.8	66 - 139
Benzo(g,h,i)perylene	300	208		69.2	51 - 153

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	300	143		47.6	10.5	30	36 - 120
2-Methylnaphthalene	300	147		49.1	10.7	30	35 - 120
Acenaphthylene	300	129		43.1	8.59	30	35 - 120
Acenaphthene	300	139		46.5	8.71	30	39 - 120
Fluorene	300	156		52.1	9.10	30	41 - 120
Phenanthrene	300	161		53.8	8.63	30	46 - 120
Anthracene	300	154		51.4	9.79	30	36 - 120
Fluoranthene	300	183		61.1	4.95	30	46 - 120
Pyrene	300	169		56.5	6.51	30	49 - 120
Benzo(a)anthracene	300	184		61.2	5.73	30	42 - 120
Chrysene	300	191		63.5	7.26	30	48 - 120
Benzo(b)fluoranthene	300	194		64.6	16.6	30	52 - 137

* Indicates values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8270E-SIM

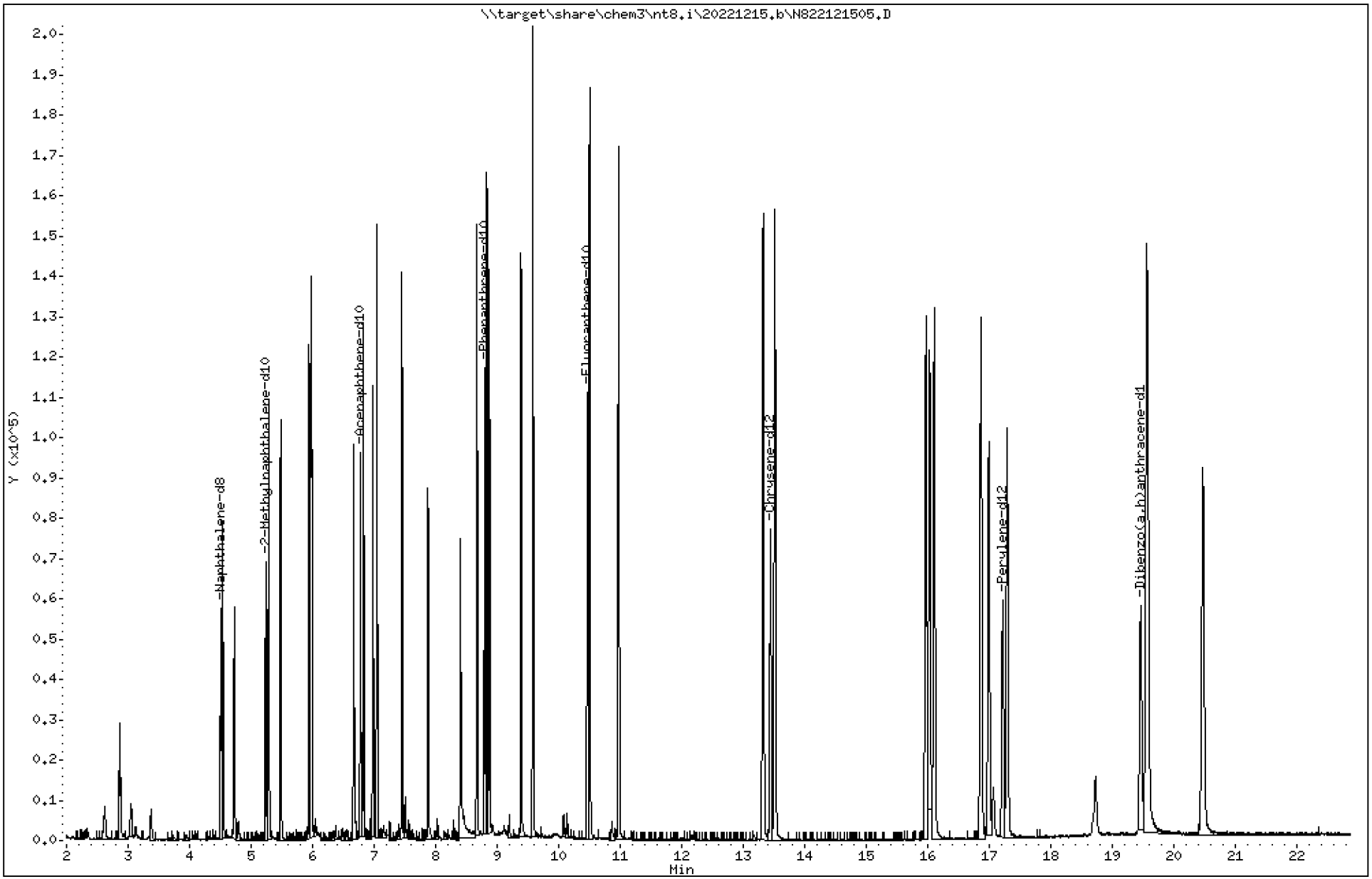
Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/15/22 17:08
Batch:	BKL0196	Laboratory ID:	BKL0196-BSD1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS Dup
Initial/Final:	10 g / 0.5 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzo(k)fluoranthene	300	194		64.6	13.0	30	37 - 129
Benzo(a)pyrene	300	172		57.4	14.2	30	36 - 120
Indeno(1,2,3-cd)pyrene	300	235		78.4	12.6	30	67 - 132
Dibenzo(a,h)anthracene	300	256		85.3	17.1	30	66 - 139
Benzo(g,h,i)perylene	300	239		79.8	14.2	30	51 - 153

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt8.i\20221215.b\N822121505.D
Date : 15-DEC-2022 16:41
Client ID:
Sample Info: BKL0196-BS1,

Instrument: nt8.i
Operator: JZ
Column phase: Rxi-17sil
Column diameter: 0.25



Data File: \\target\share\chem3\nt8.i\20221215.b\N822121505.D

Date : 15-DEC-2022 16:41

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BS1,

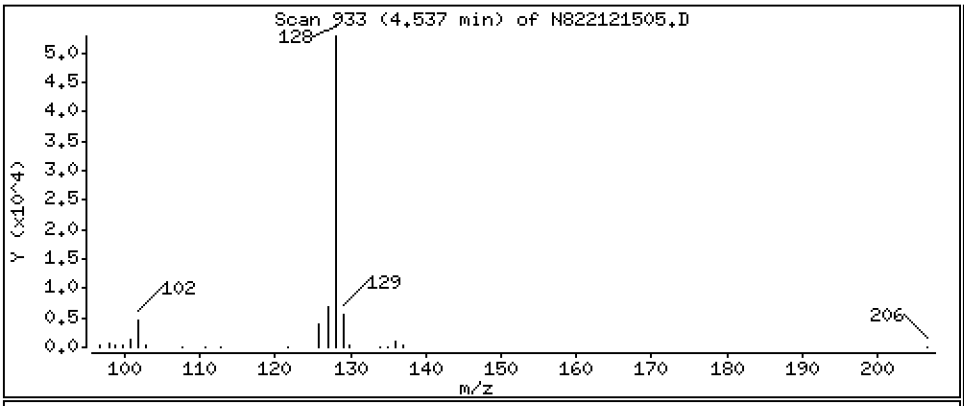
Operator: JZ

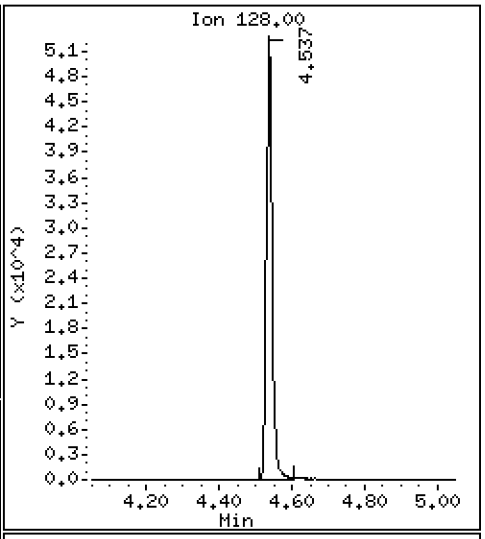
Column phase: Rxi-17sil

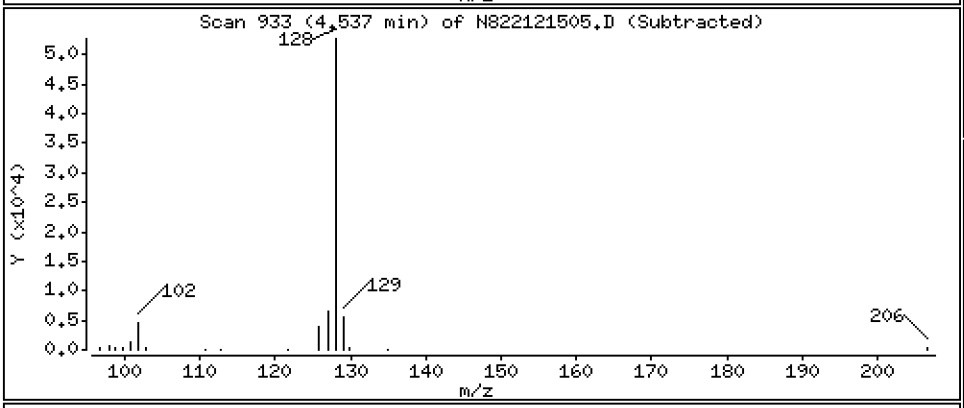
Column diameter: 0.25

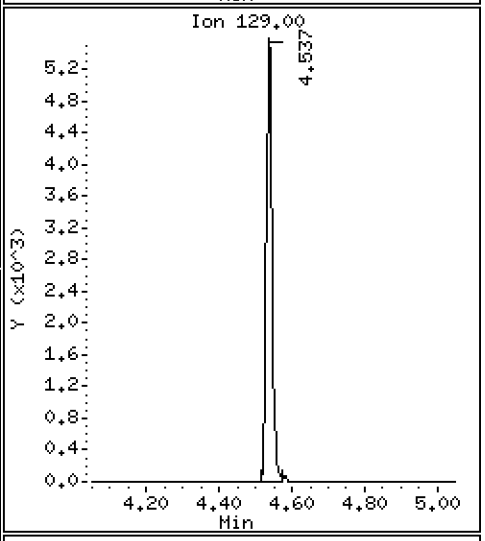
2 Naphthalene

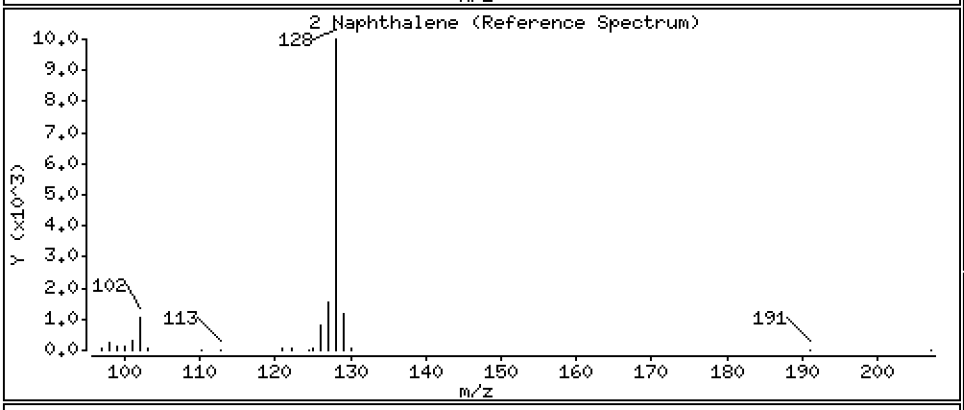
Concentration: 2.572 ug/mL

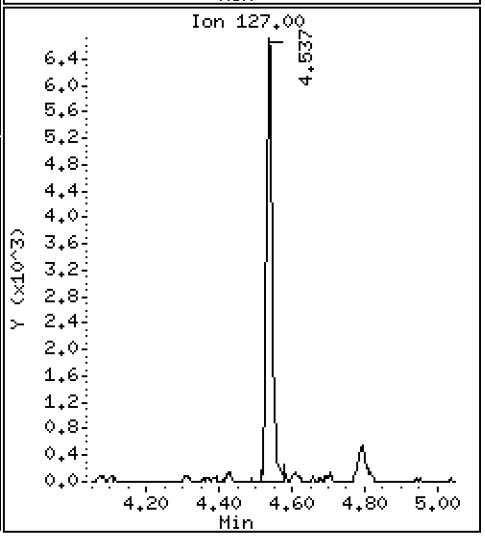


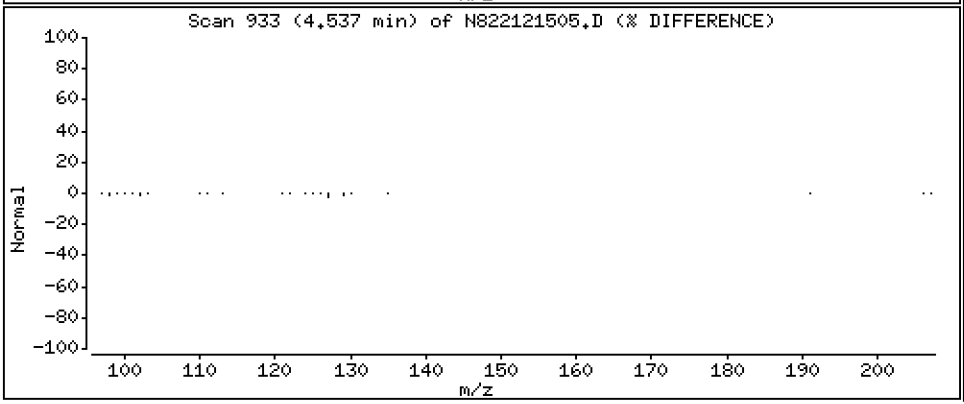












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121505.D

Date : 15-DEC-2022 16:41

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BS1,

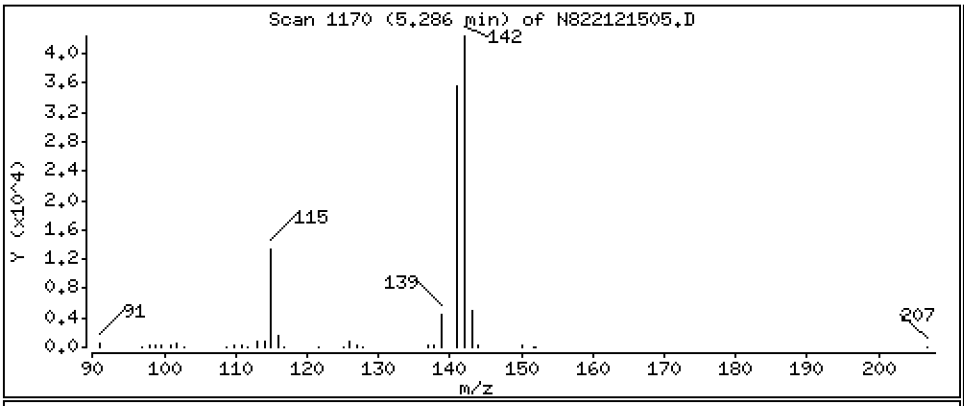
Operator: JZ

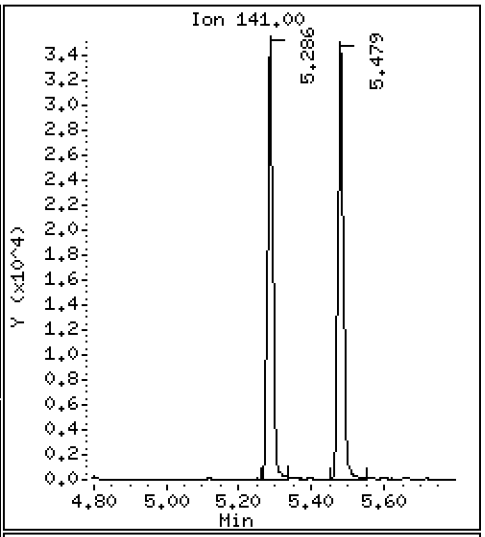
Column phase: Rxi-17sil

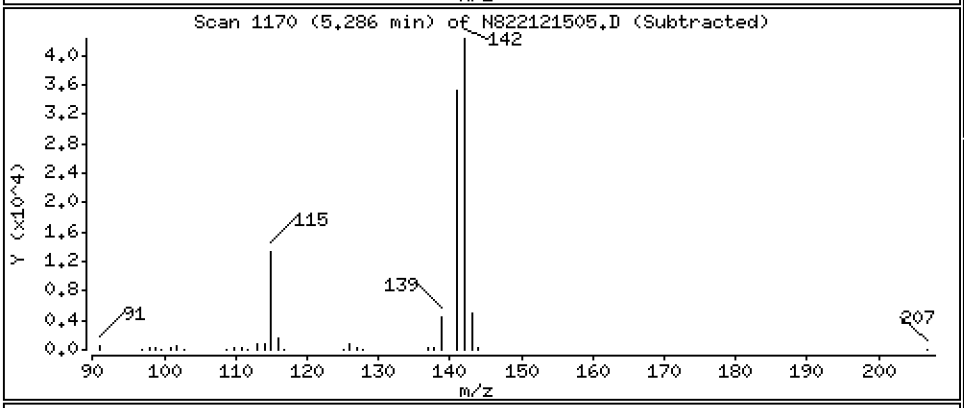
Column diameter: 0.25

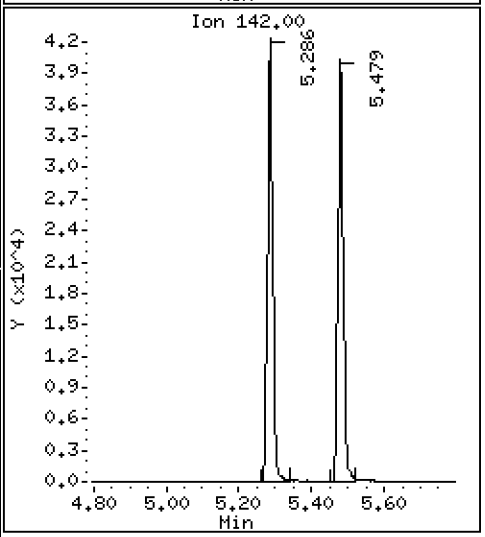
4 2-Methylnaphthalene

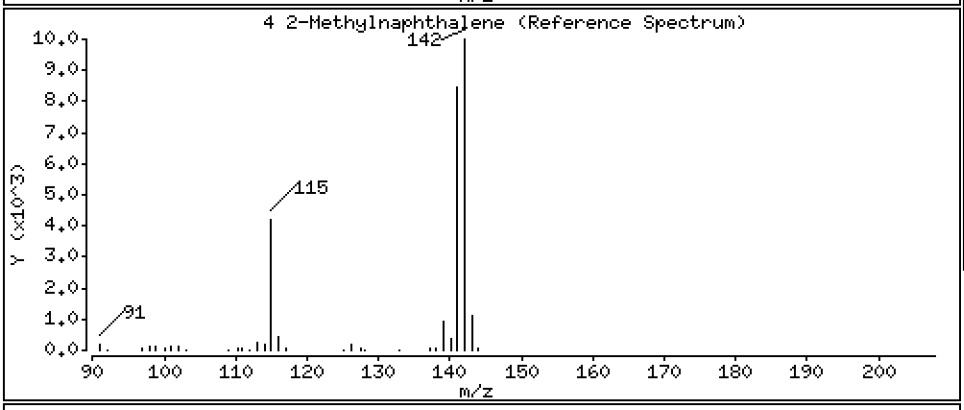
Concentration: 2.648 ug/mL

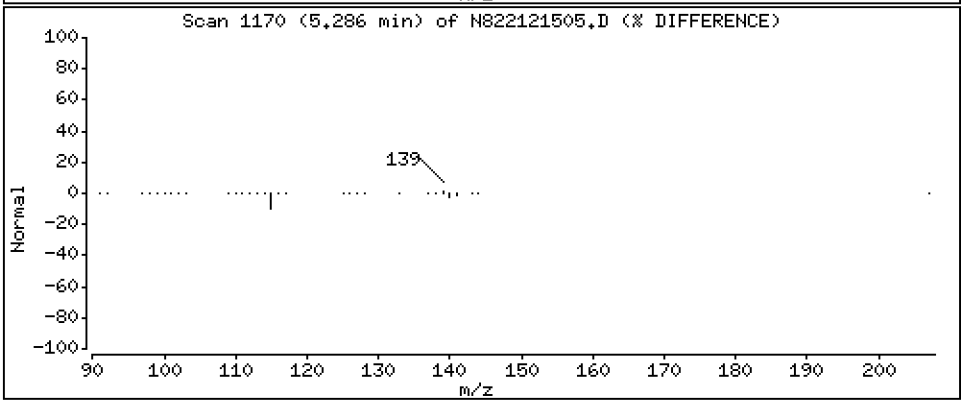












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Date : 15-DEC-2022 16:41

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BS1,

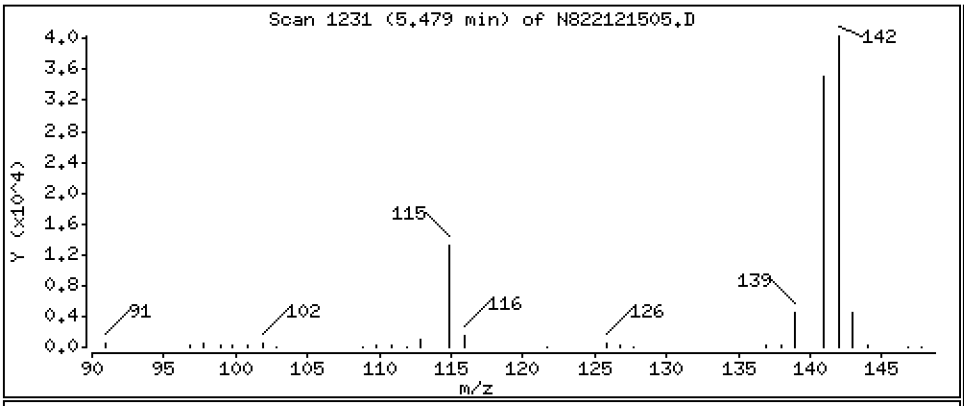
Operator: JZ

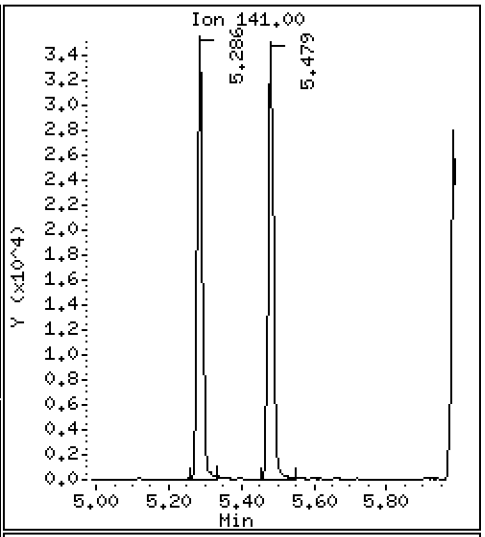
Column phase: Rxi-17sil

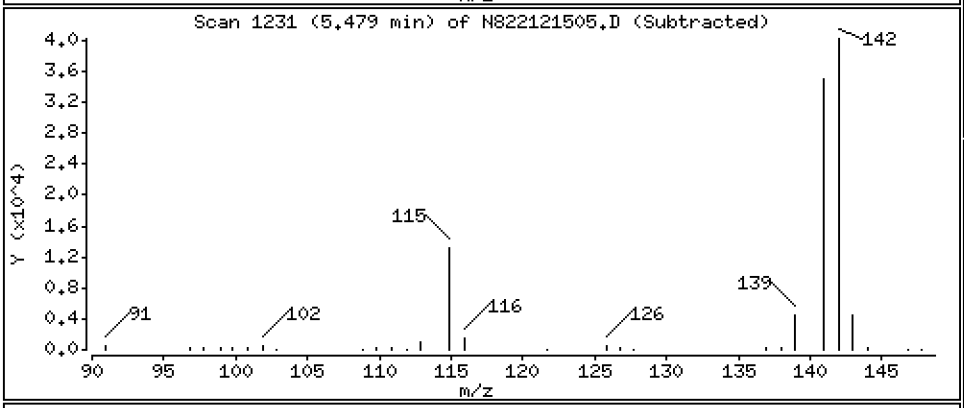
Column diameter: 0.25

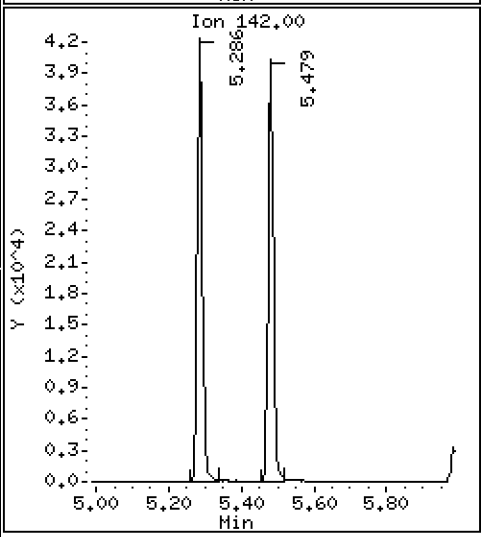
5 1-methylnaphthalene

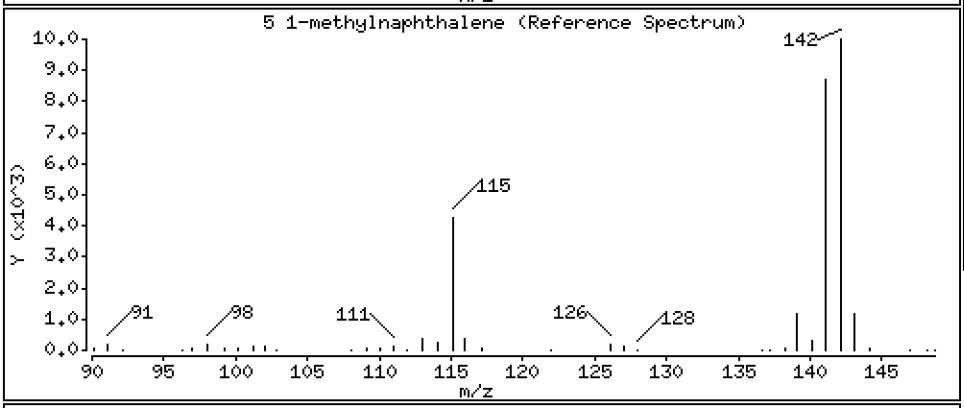
Concentration: 2.749 ug/mL

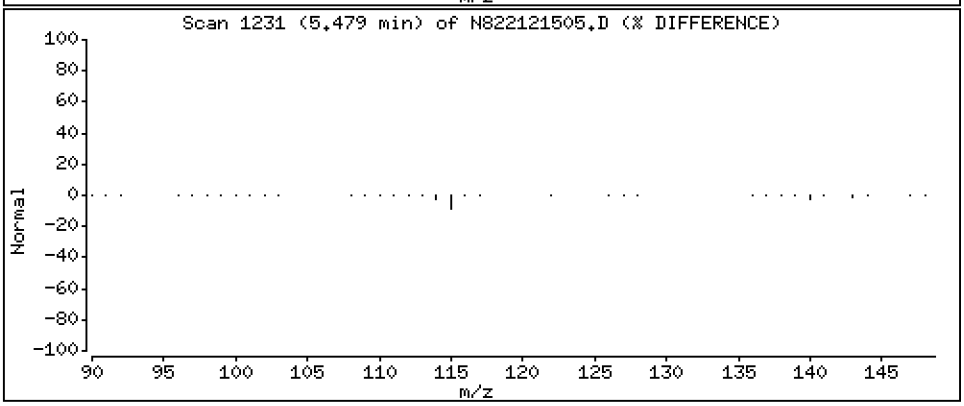












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Date : 15-DEC-2022 16:41

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BS1,

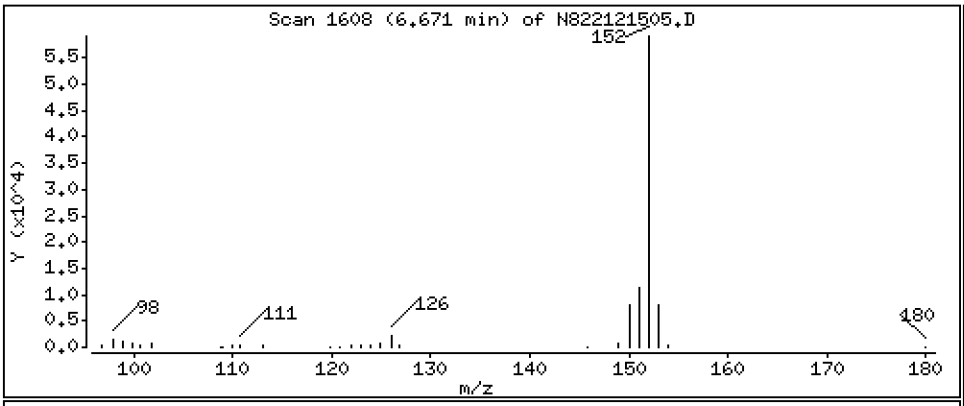
Operator: JZ

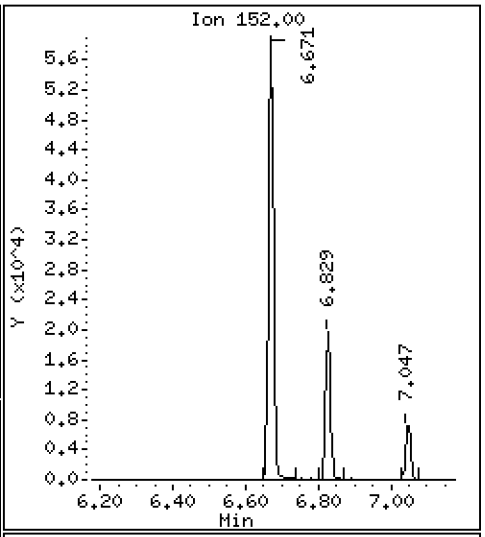
Column phase: Rxi-17sil

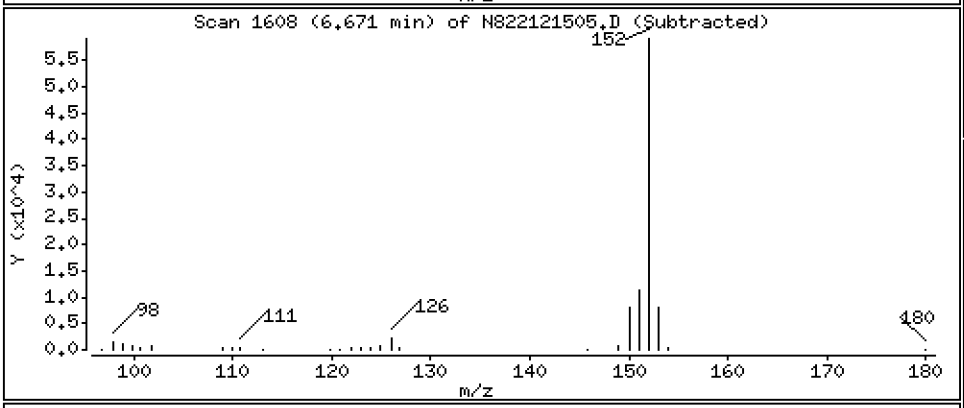
Column diameter: 0.25

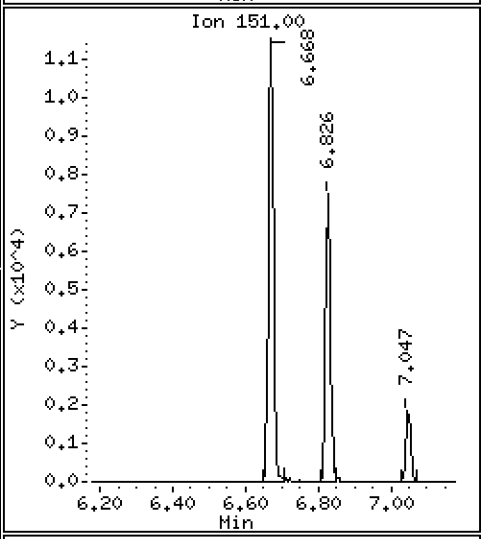
9 Acenaphthylene

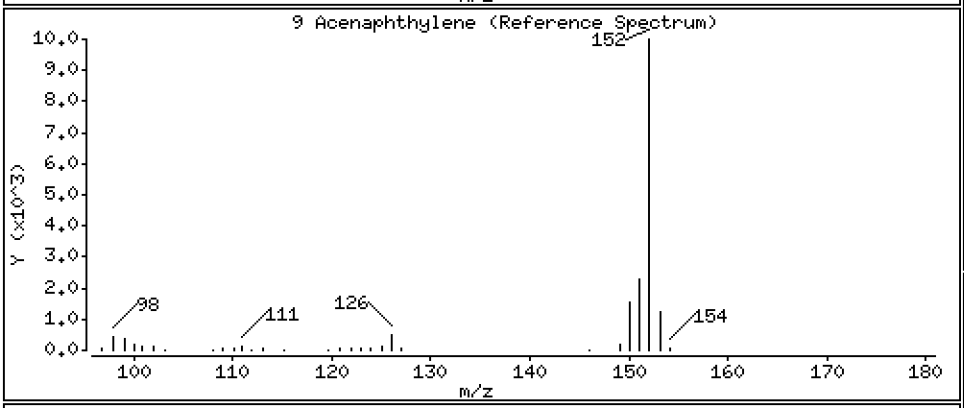
Concentration: 2.375 ug/mL

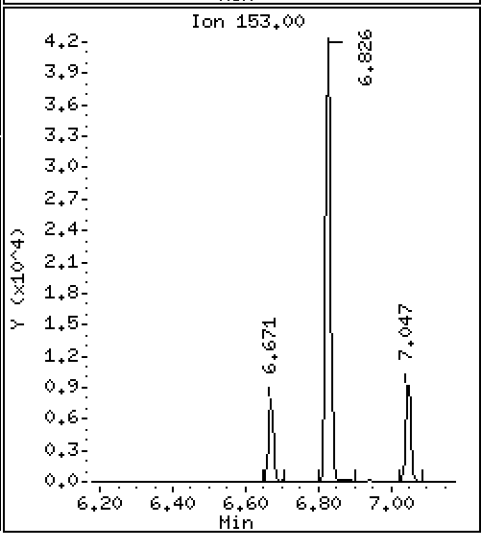


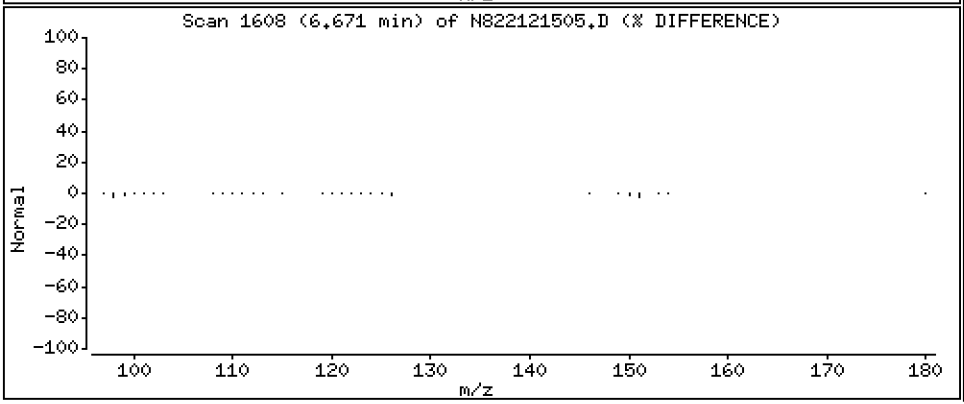












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Date : 15-DEC-2022 16:41

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BS1,

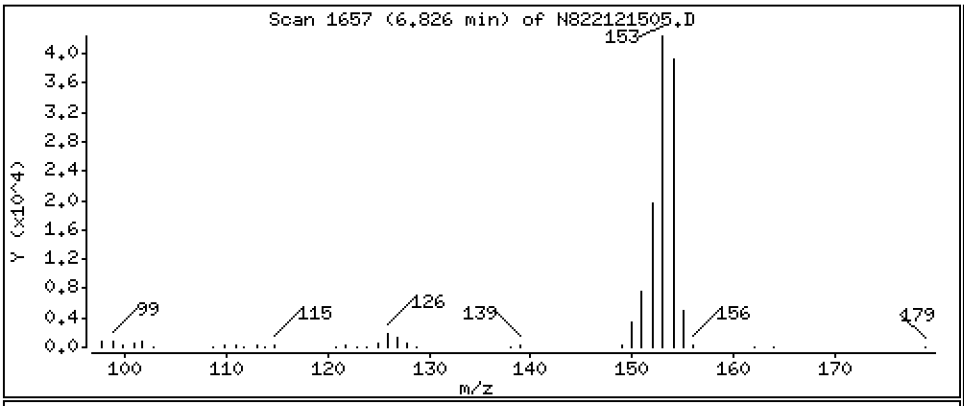
Operator: JZ

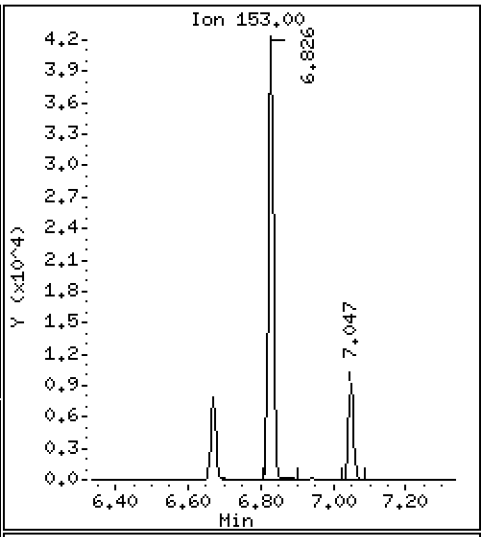
Column phase: Rxi-17sil

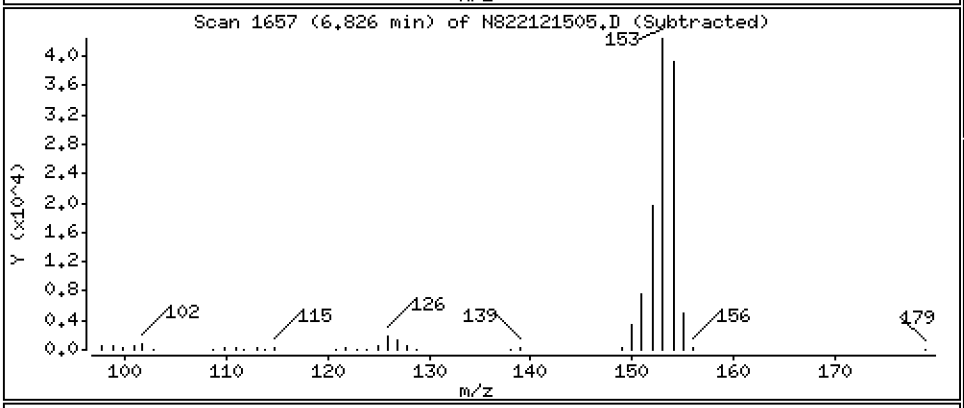
Column diameter: 0.25

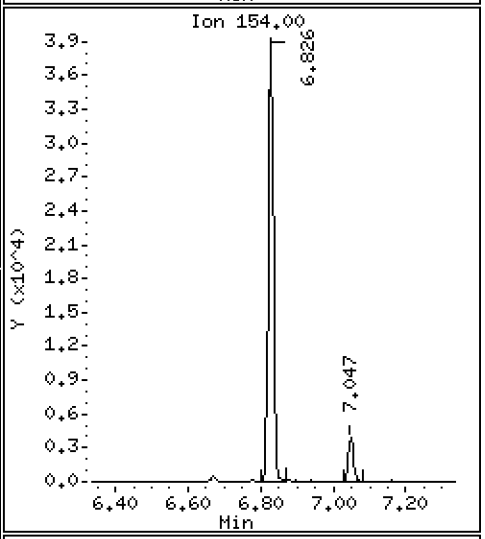
11 Acenaphthene

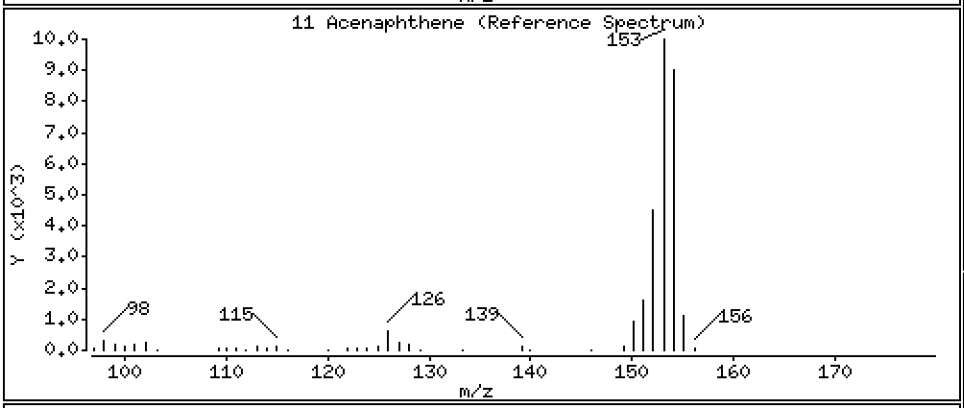
Concentration: 2.555 ug/mL

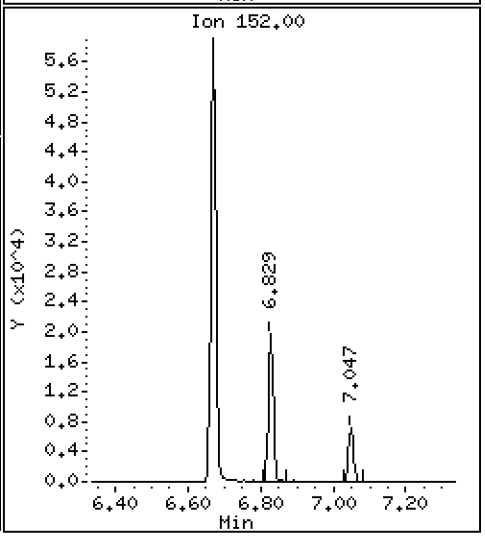


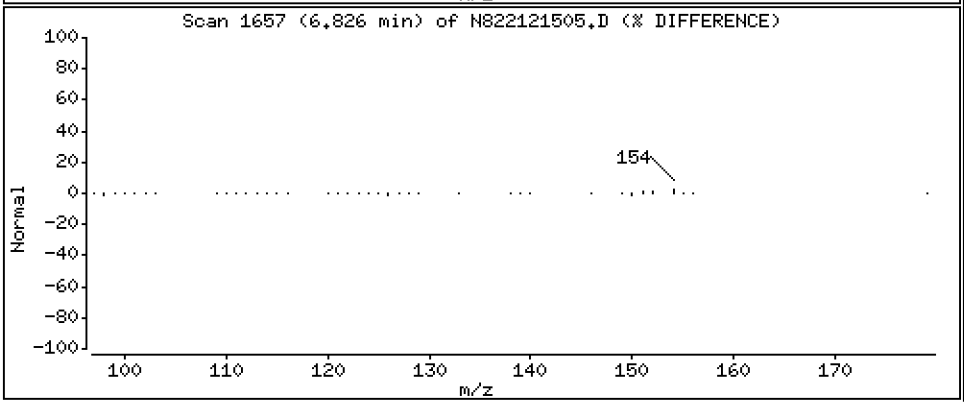












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Date : 15-DEC-2022 16:41

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BS1,

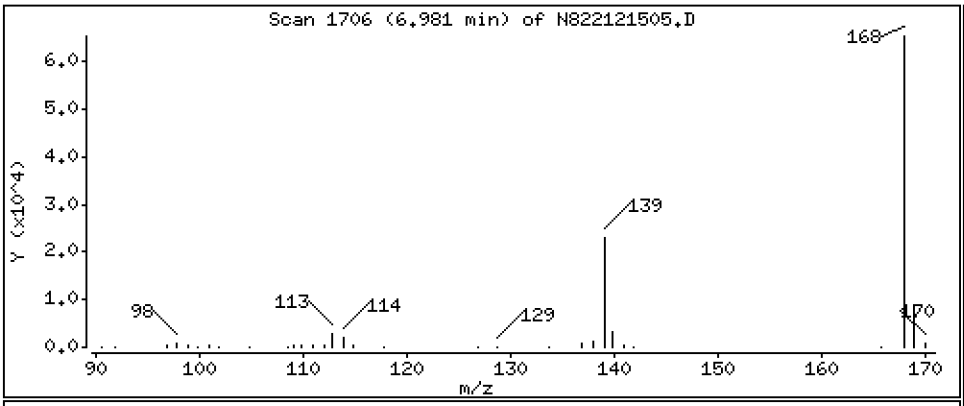
Operator: JZ

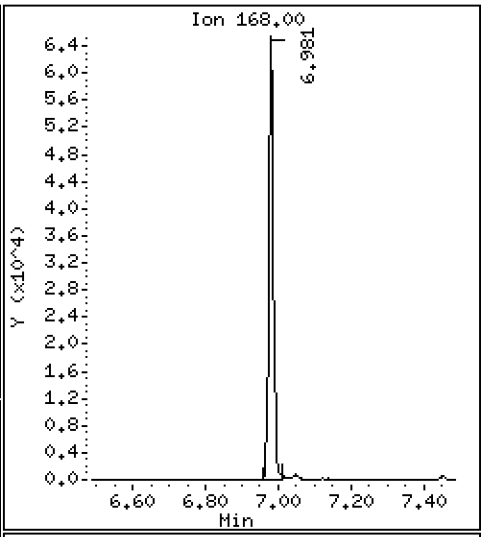
Column phase: Rxi-17sil

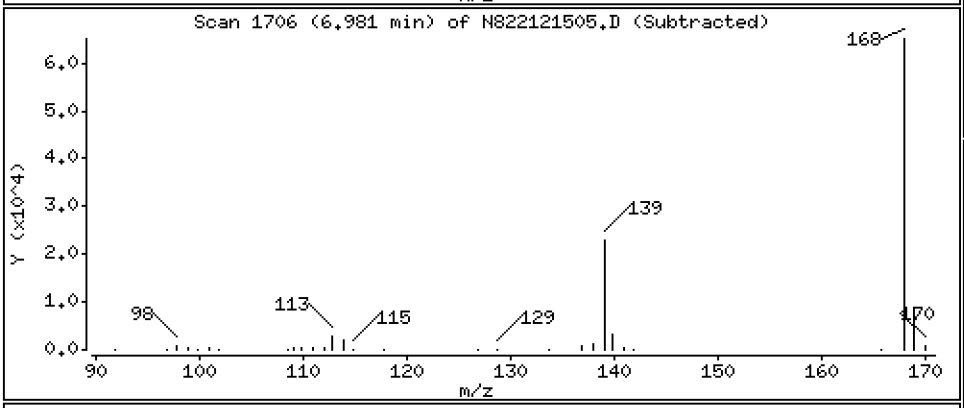
Column diameter: 0.25

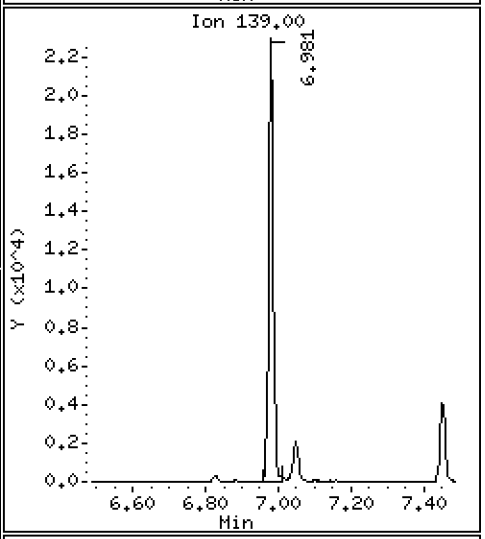
12 Dibenzofuran

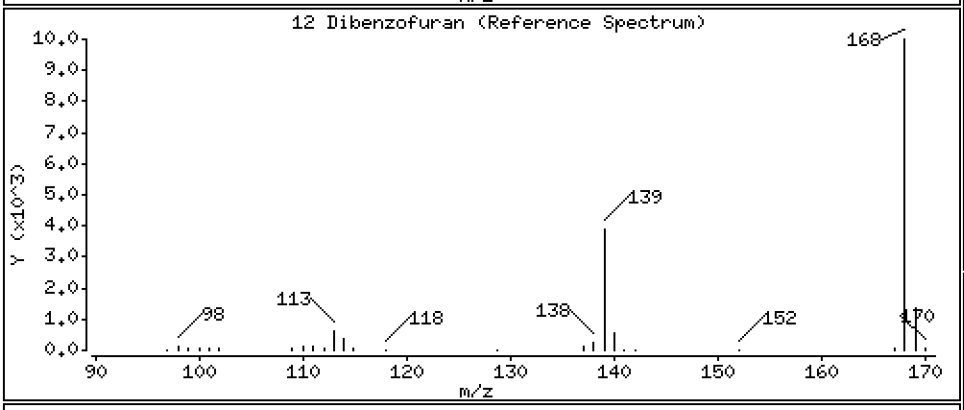
Concentration: 2.725 ug/mL

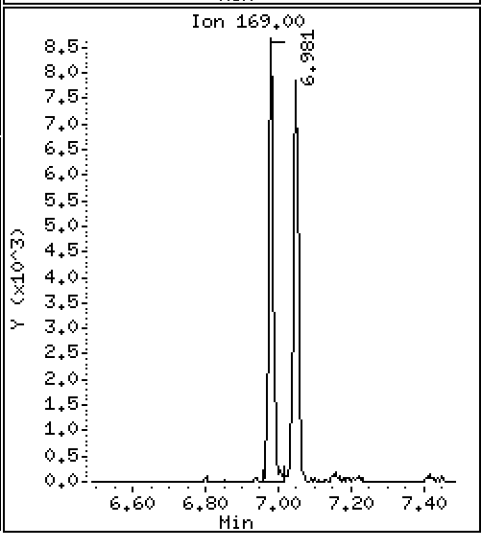


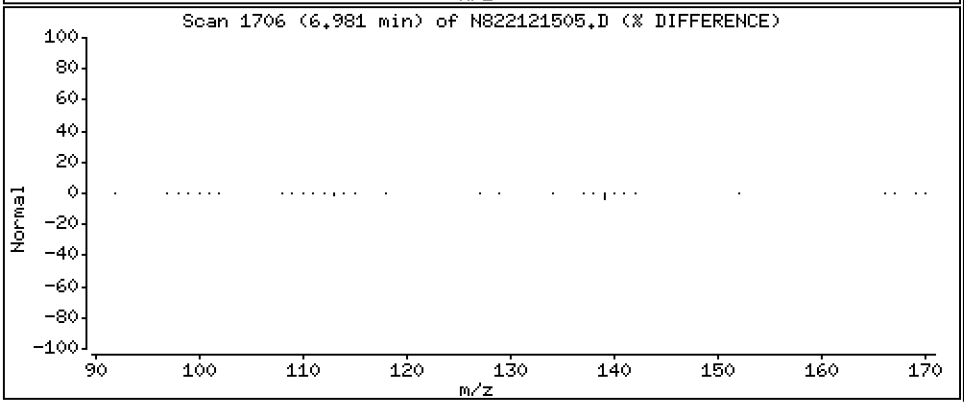












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Date : 15-DEC-2022 16:41

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BS1,

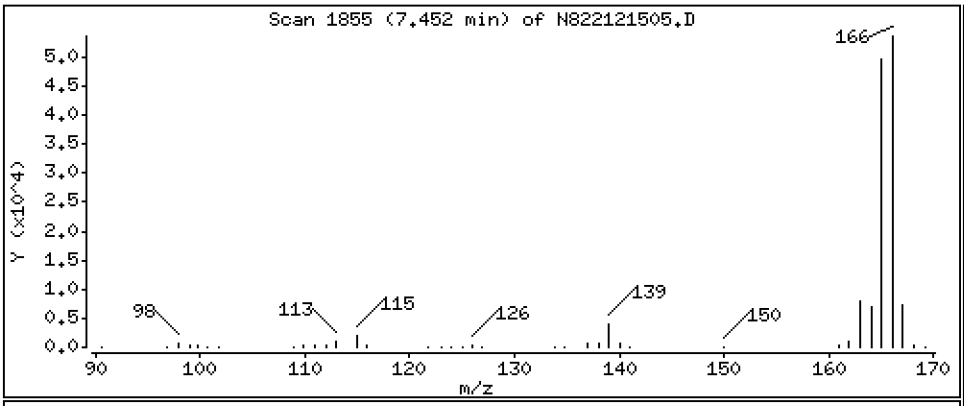
Operator: JZ

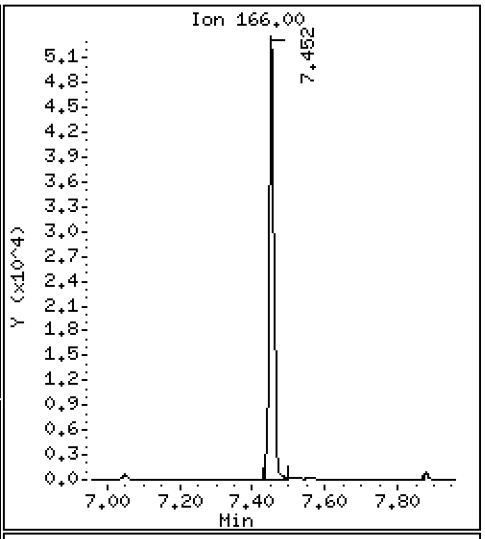
Column phase: Rxi-17sil

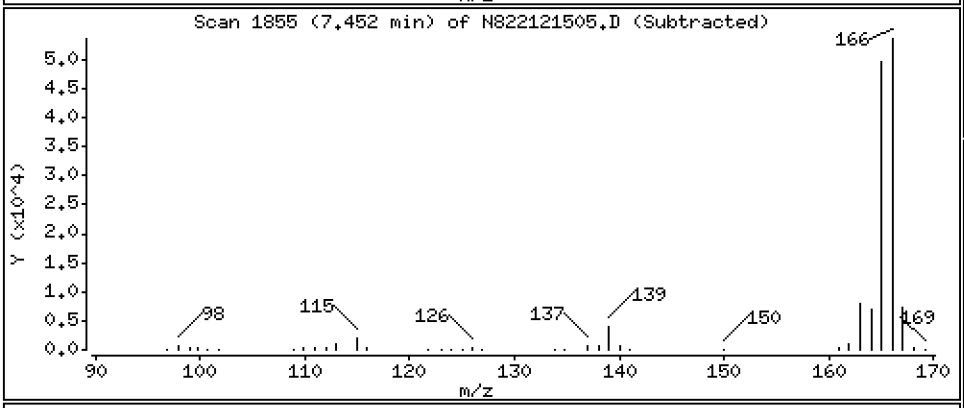
Column diameter: 0.25

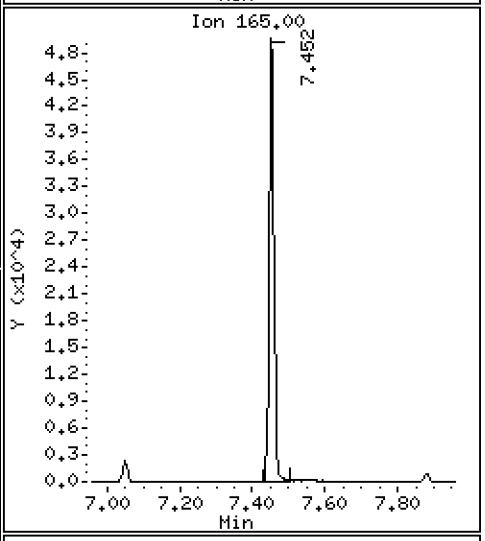
14 Fluorene

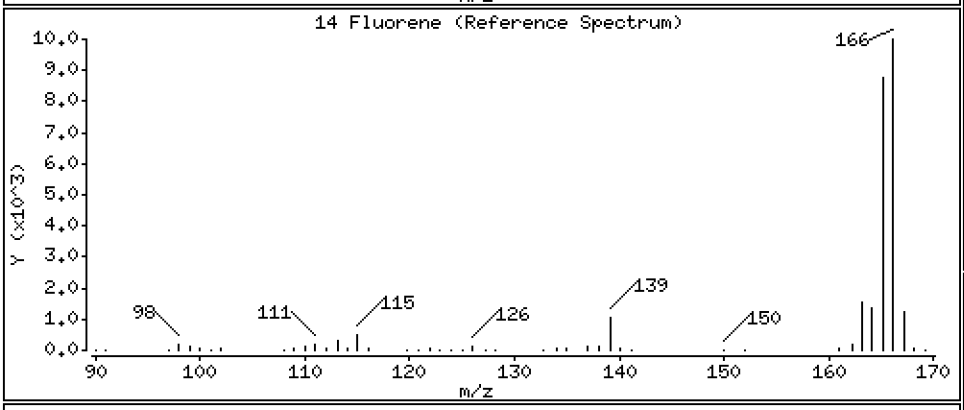
Concentration: 2.853 ug/mL

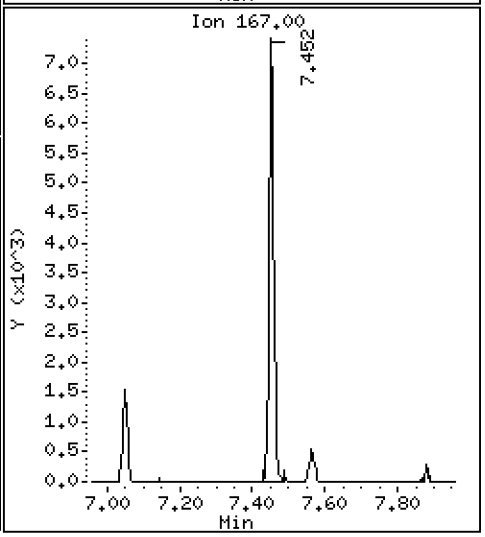


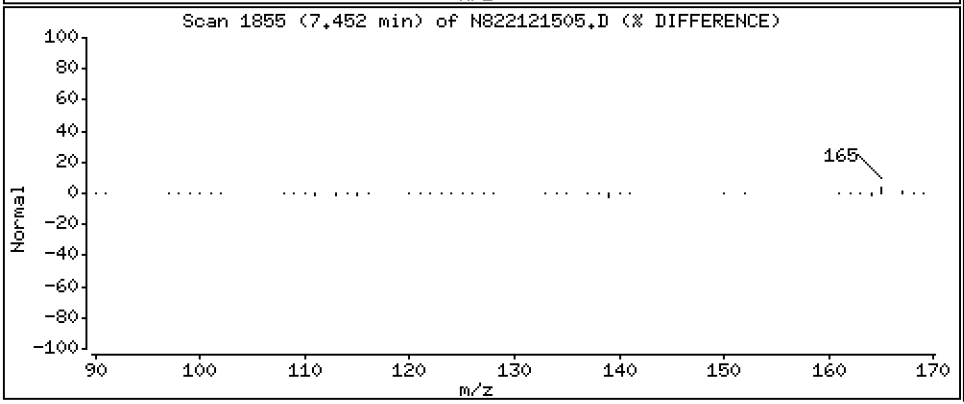












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Date : 15-DEC-2022 16:41

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BS1,

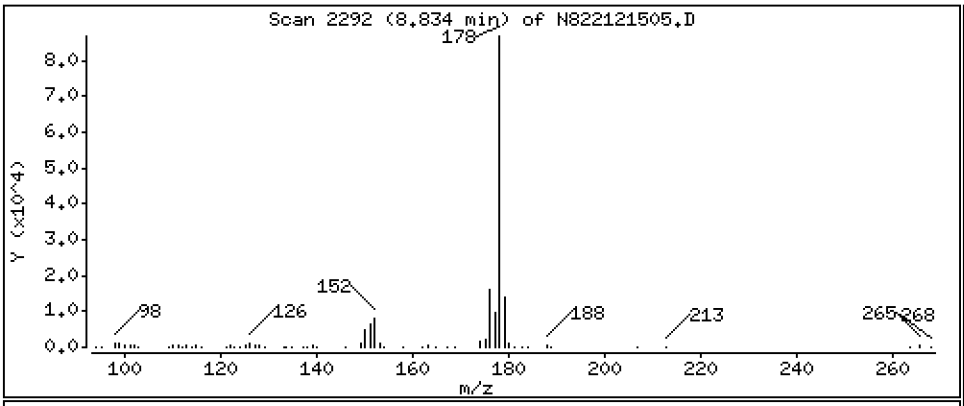
Operator: JZ

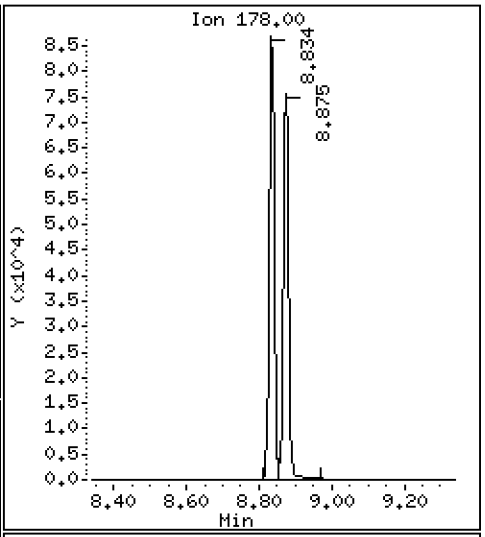
Column phase: Rxi-17sil

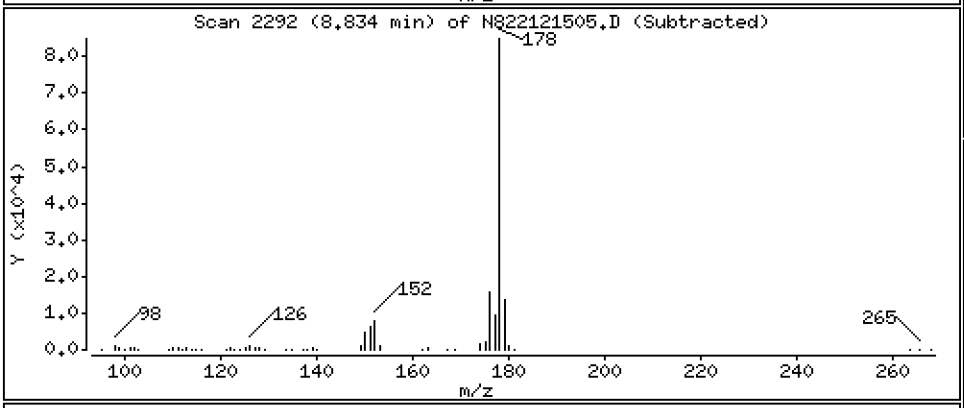
Column diameter: 0.25

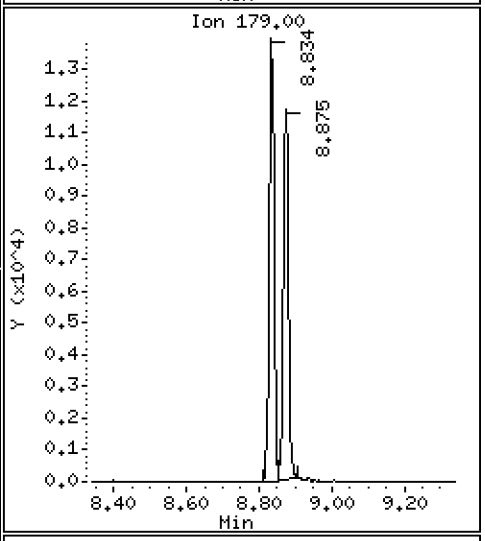
16 Phenanthrene

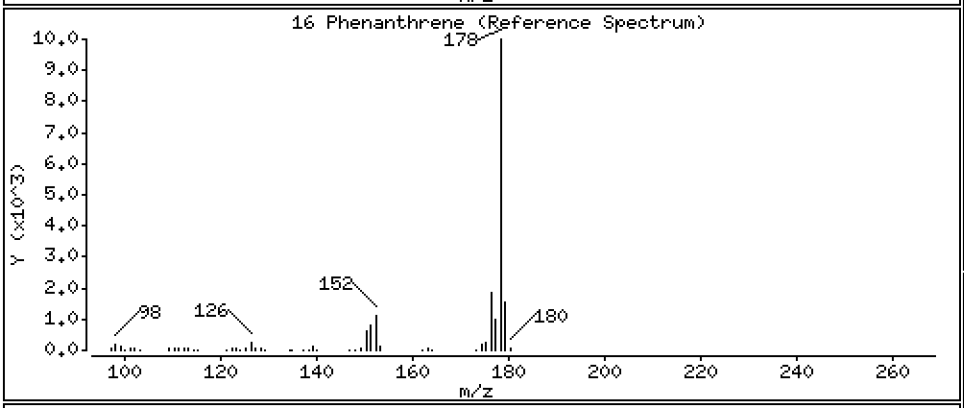
Concentration: 2.961 ug/mL

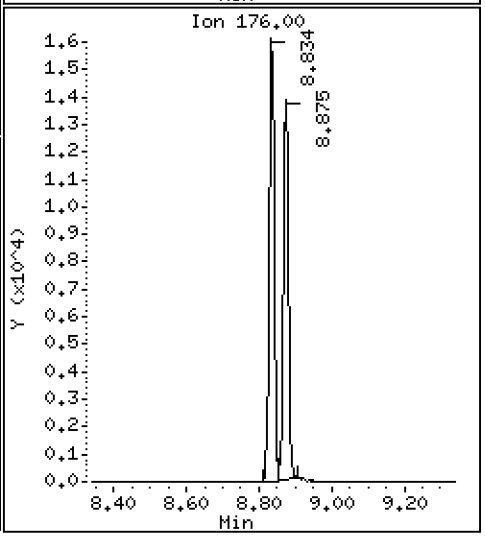


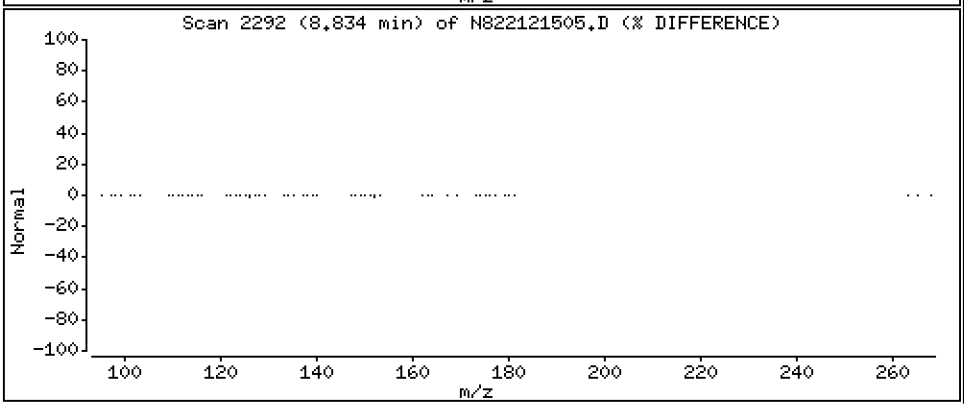












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121505.D

Date : 15-DEC-2022 16:41

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BS1,

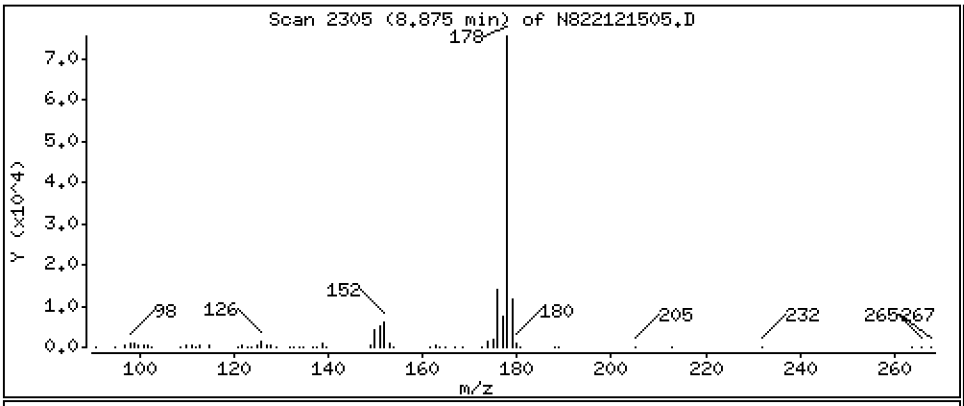
Operator: JZ

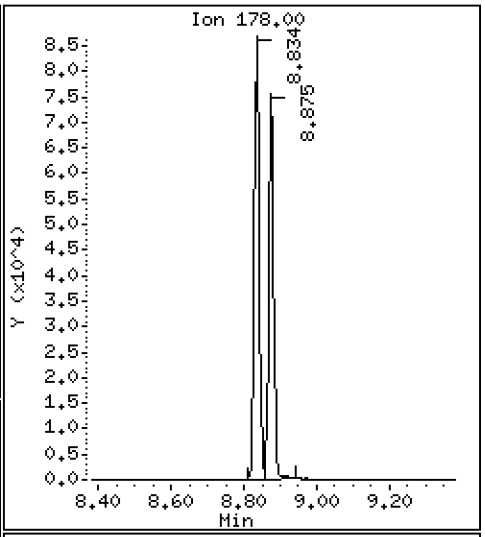
Column phase: Rxi-17sil

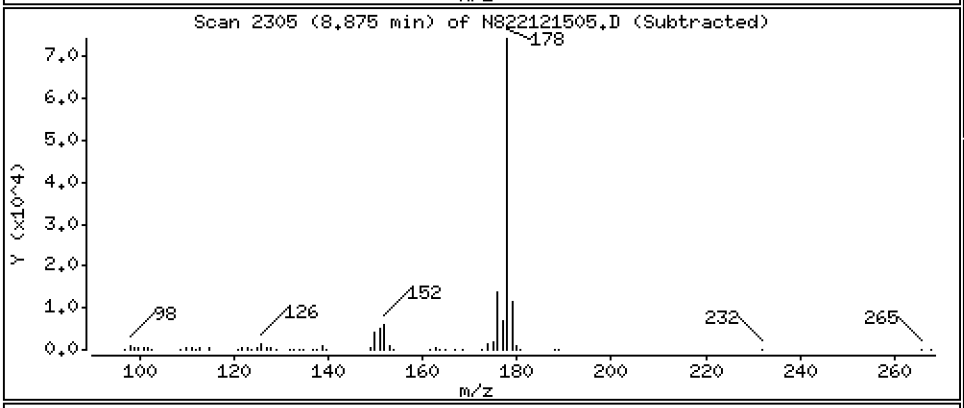
Column diameter: 0.25

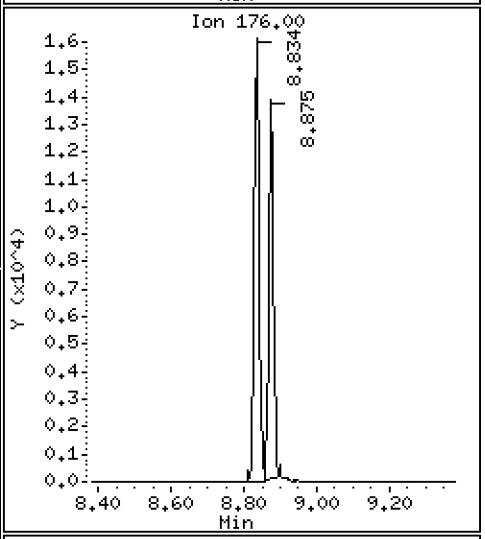
17 Anthracene

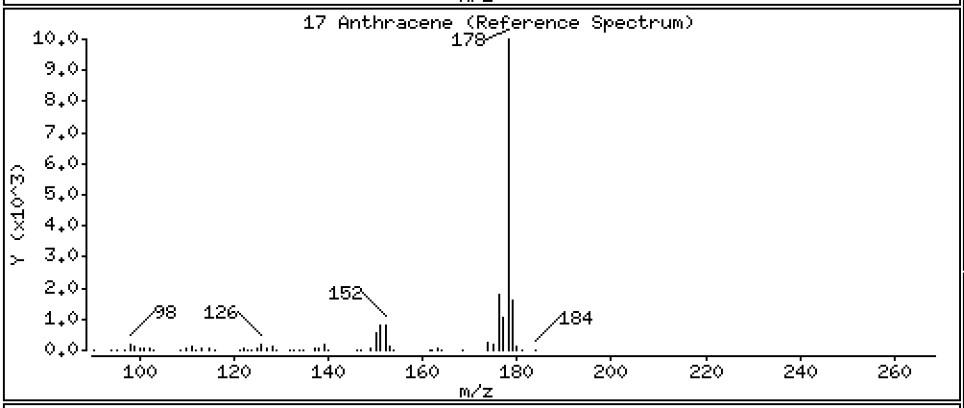
Concentration: 2.797 ug/mL

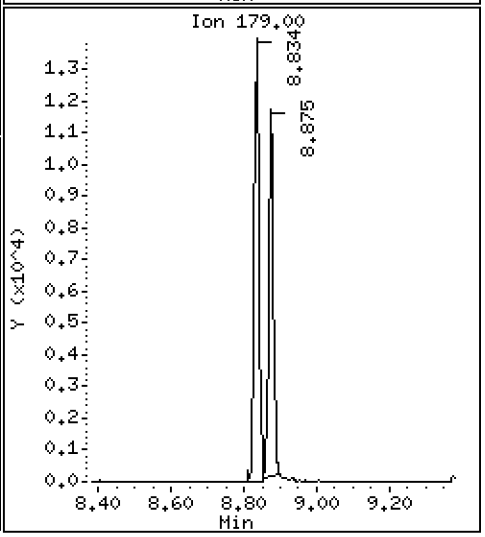


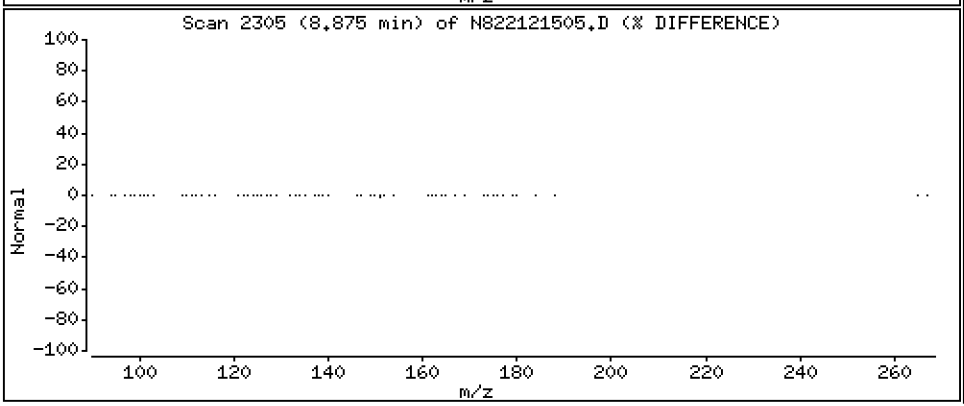












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121505.D

Date : 15-DEC-2022 16:41

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BS1,

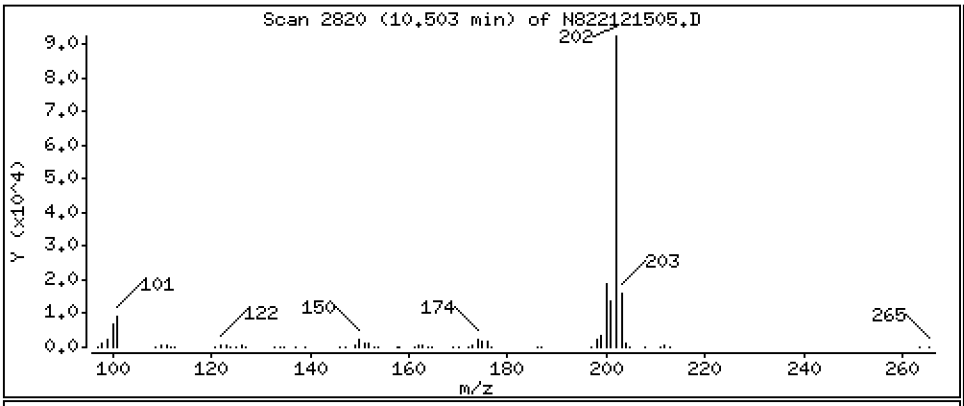
Operator: JZ

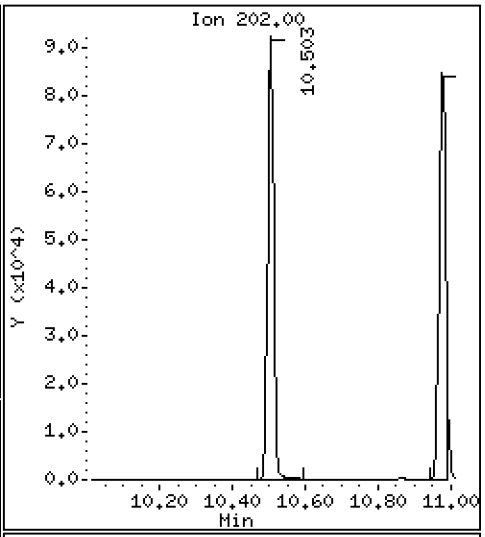
Column phase: Rxi-17sil

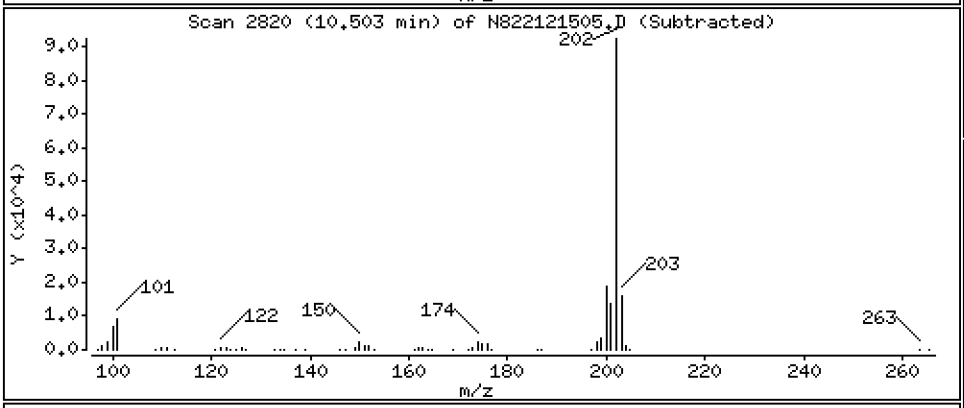
Column diameter: 0.25

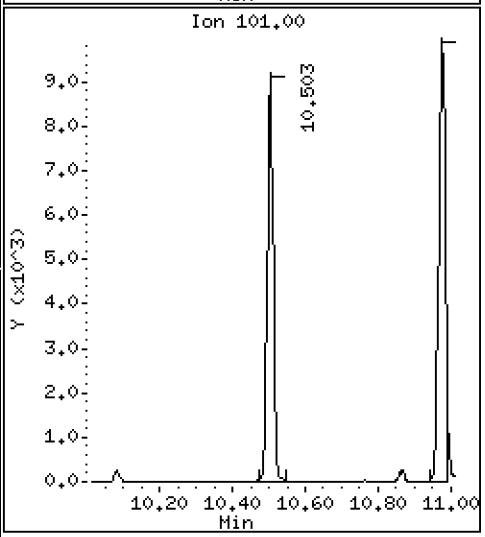
22 Fluoranthene

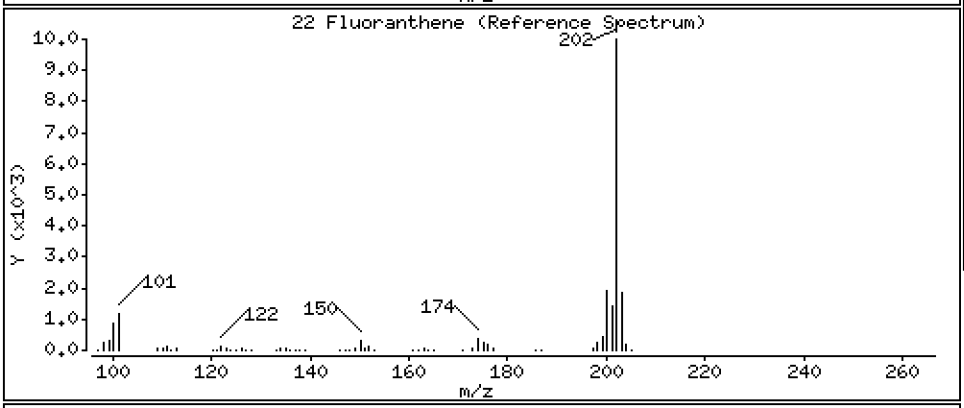
Concentration: 3.489 ug/mL

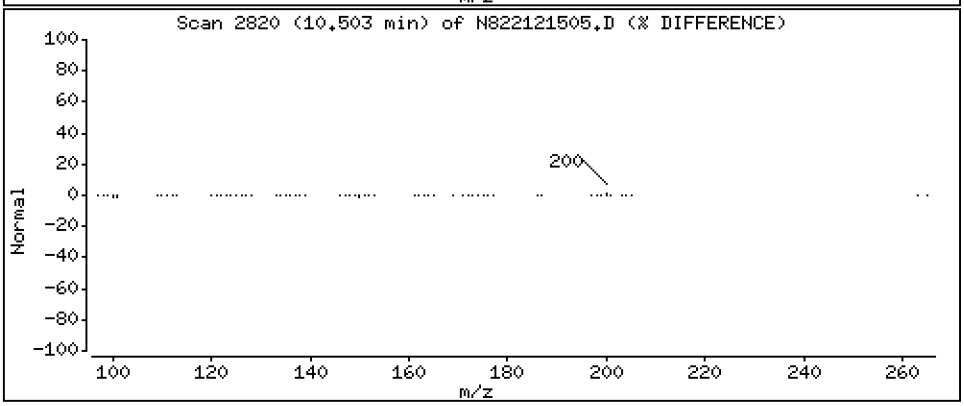












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121505.D

Date : 15-DEC-2022 16:41

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BS1,

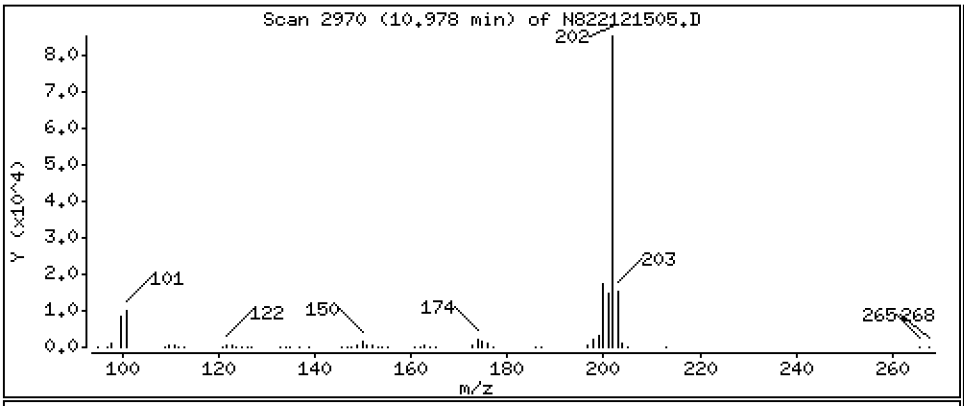
Operator: JZ

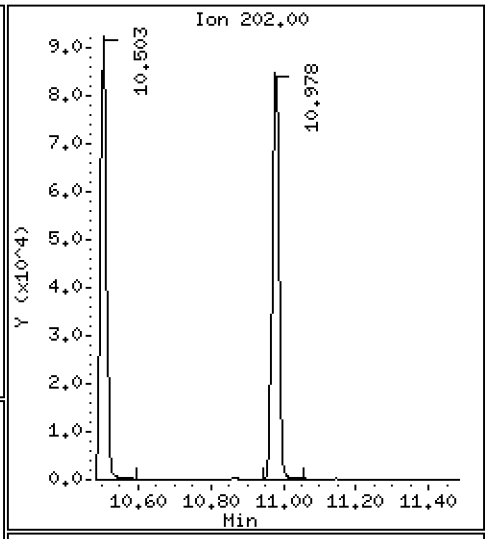
Column phase: Rxi-17sil

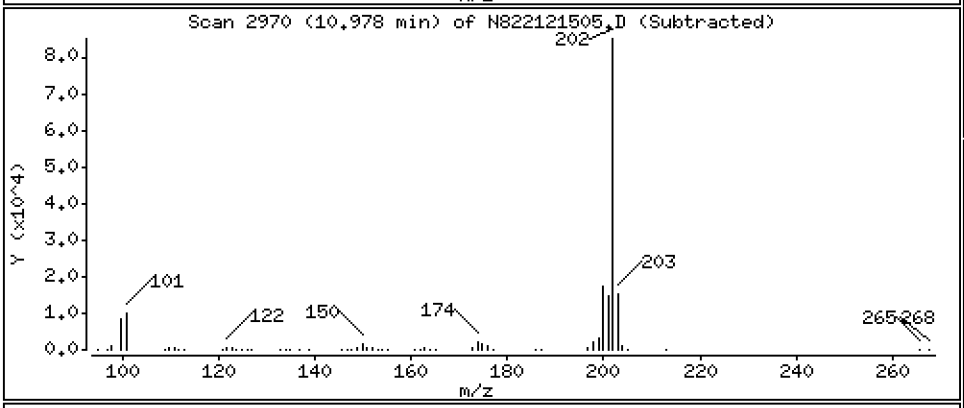
Column diameter: 0.25

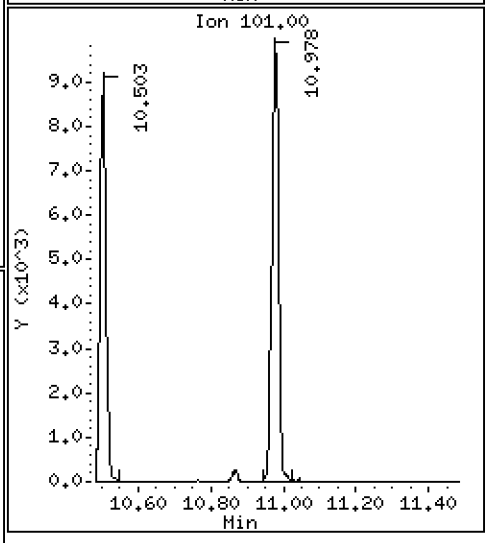
23 Pyrene

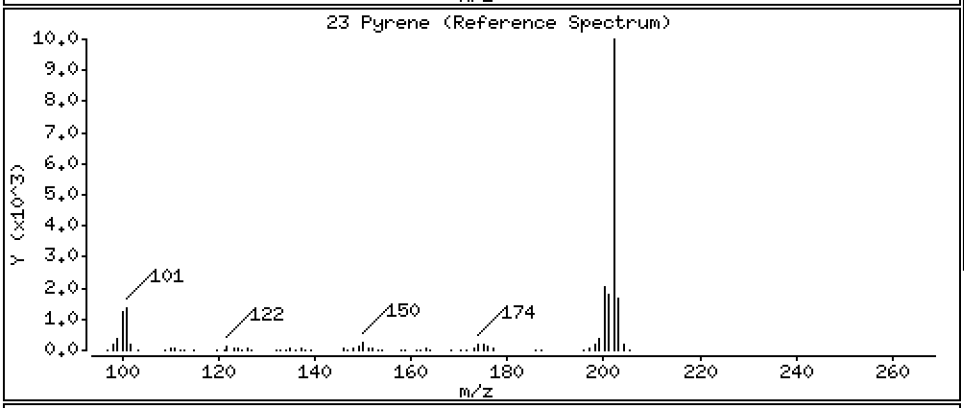
Concentration: 3.174 ug/mL

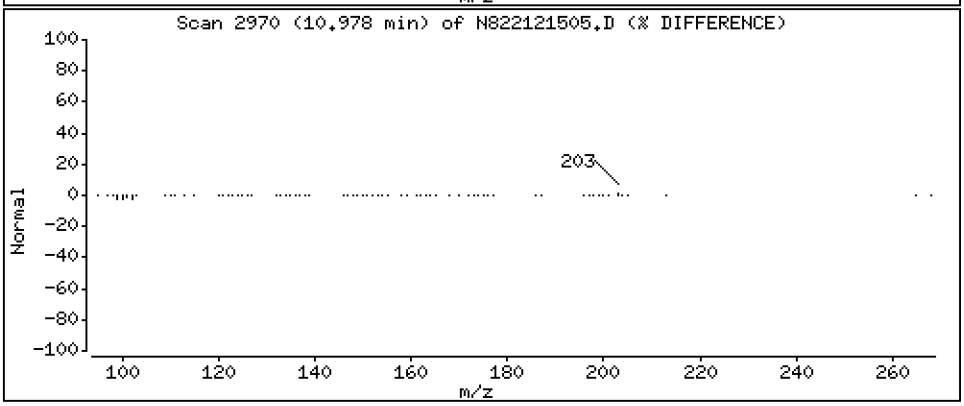












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121505.D

Date : 15-DEC-2022 16:41

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BS1,

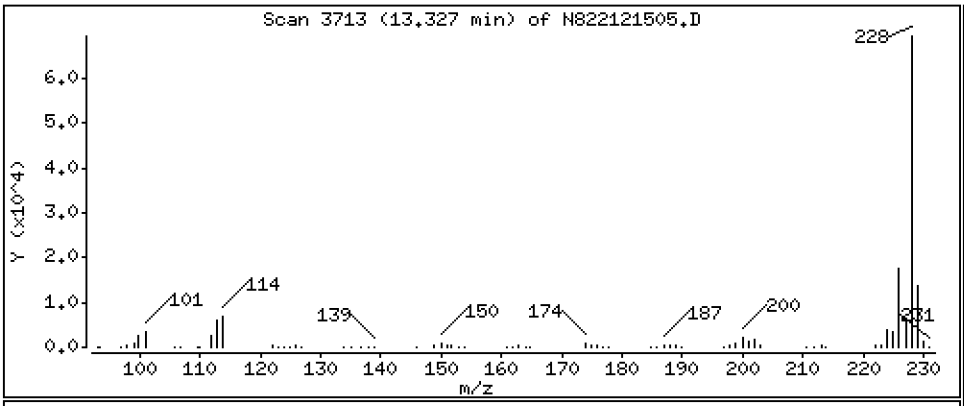
Operator: JZ

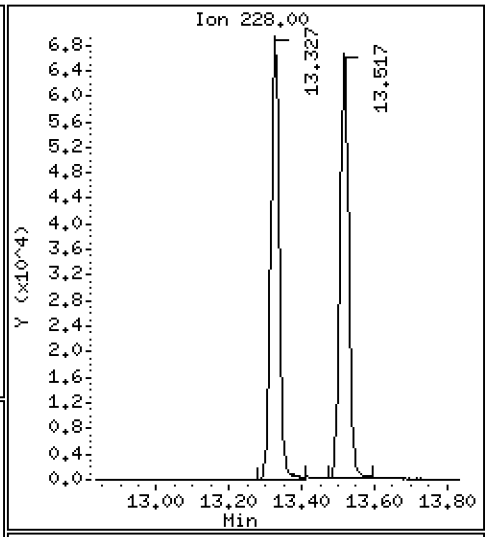
Column phase: Rxi-17sil

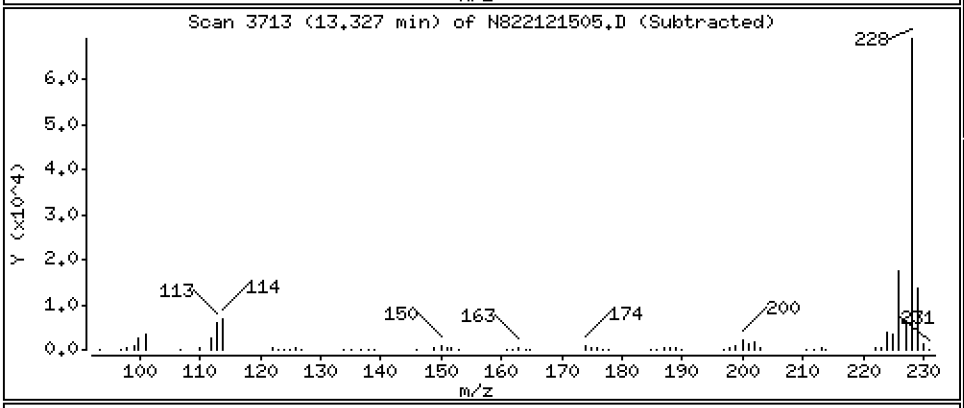
Column diameter: 0.25

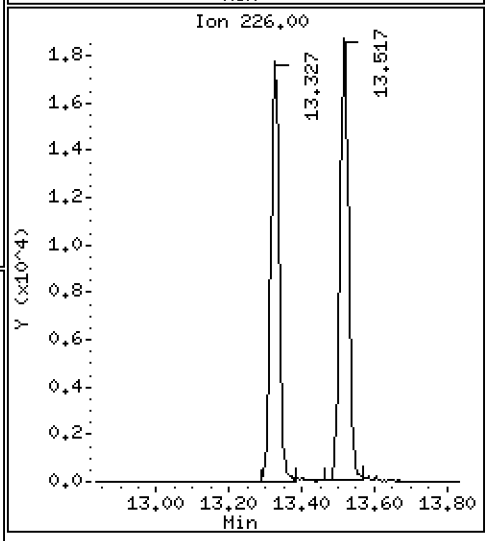
24 Benzo(a)anthracene

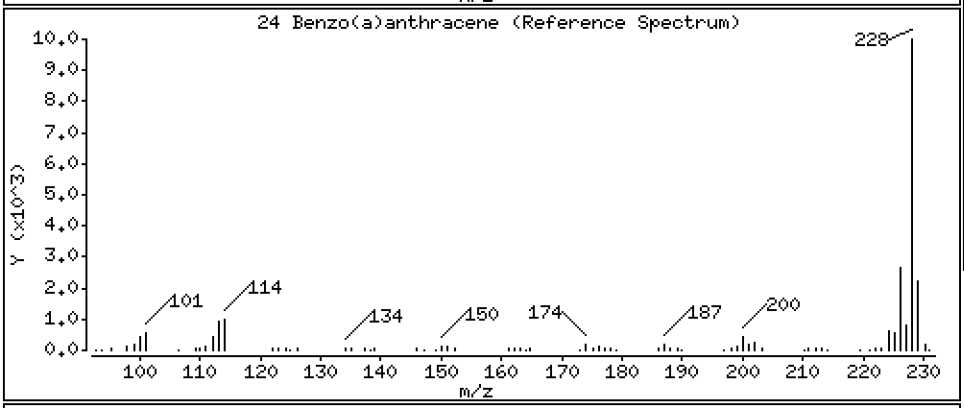
Concentration: 3.469 ug/mL

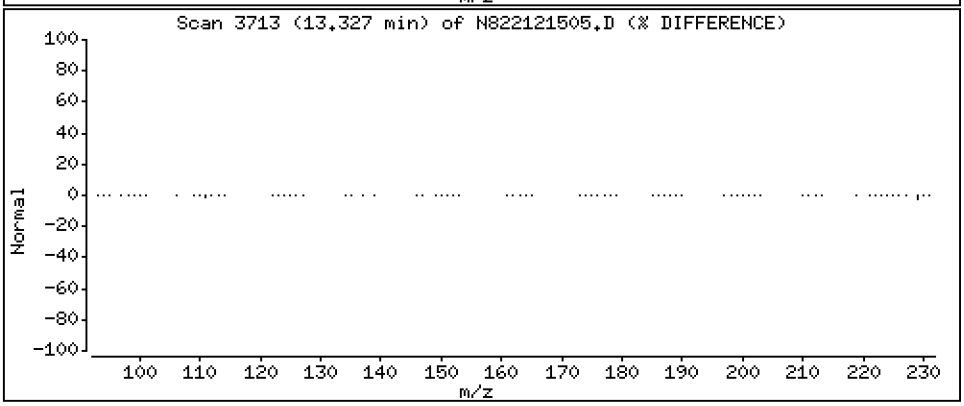












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121505.D

Date : 15-DEC-2022 16:41

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BS1,

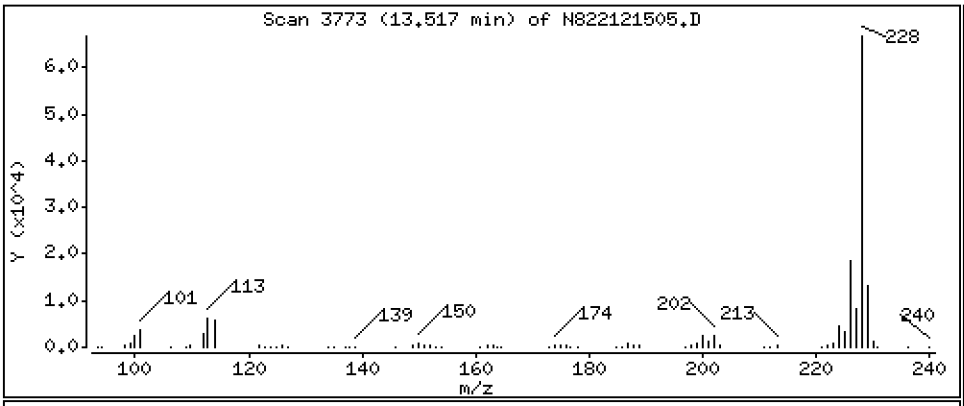
Operator: JZ

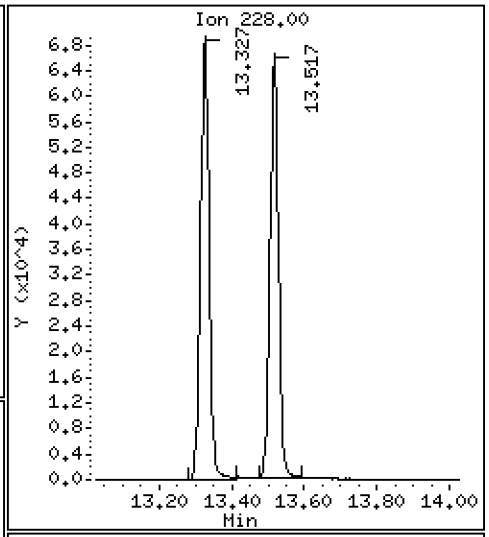
Column phase: Rxi-17sil

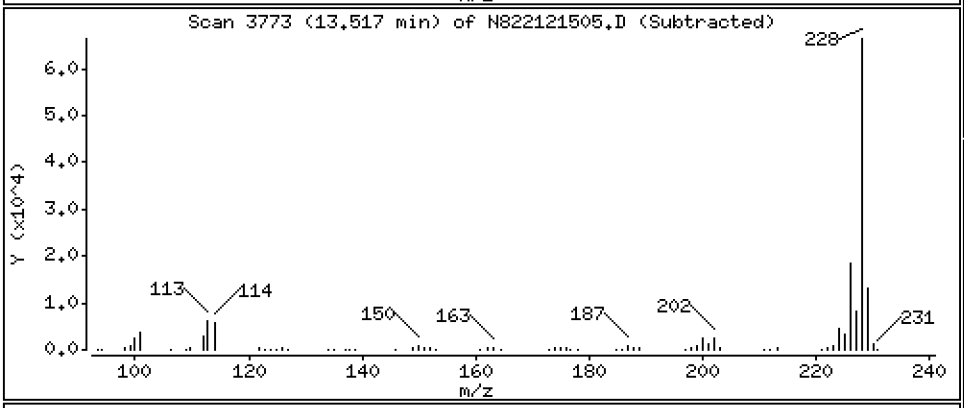
Column diameter: 0.25

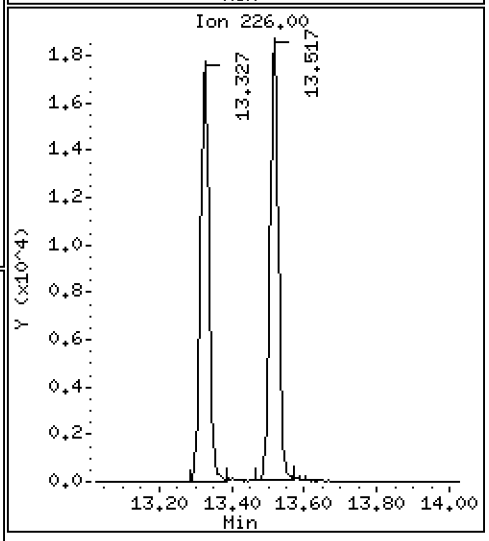
27 Chrysene

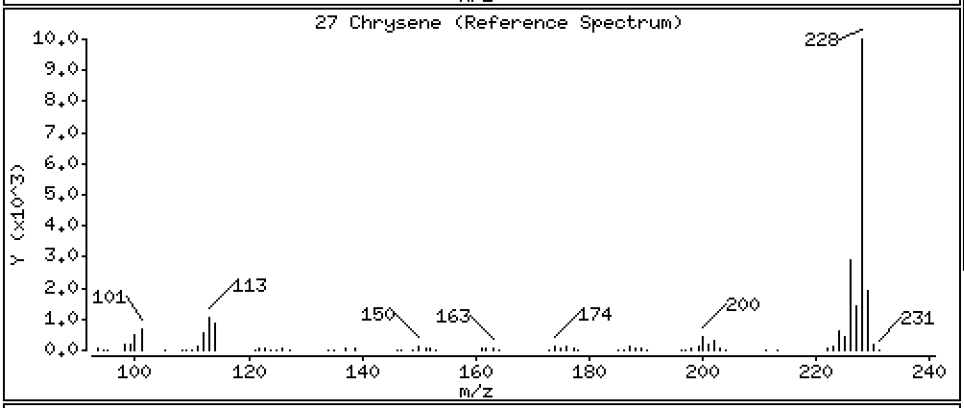
Concentration: 3.543 ug/mL

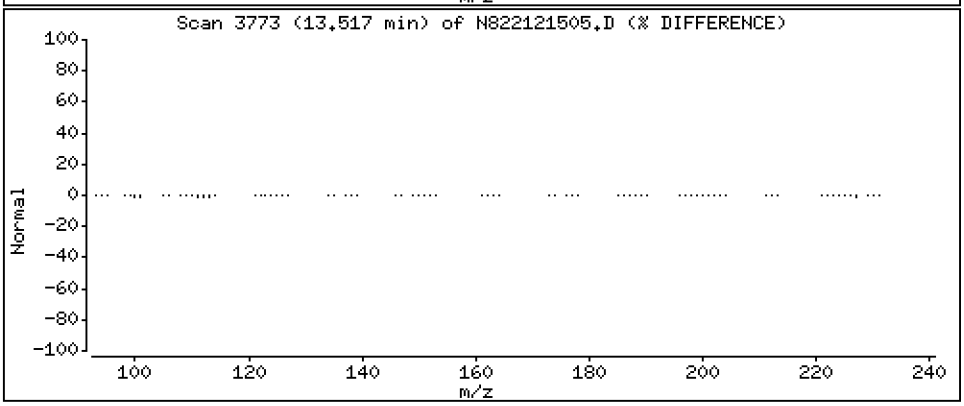












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121505.D

Date : 15-DEC-2022 16:41

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BS1,

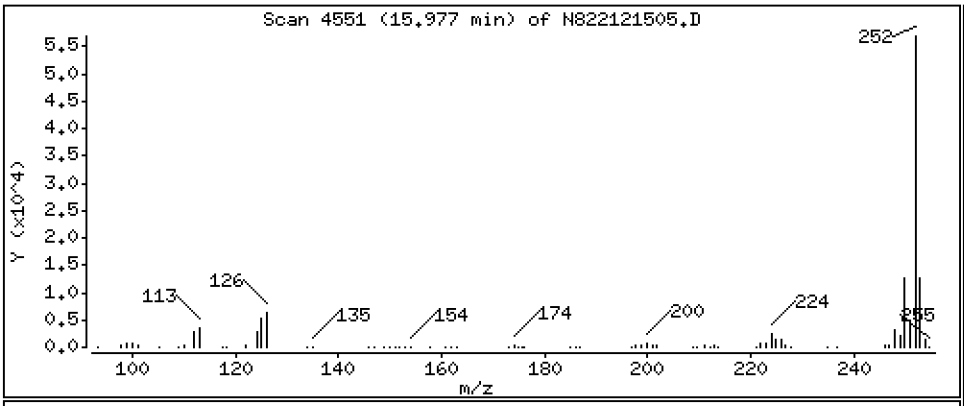
Operator: JZ

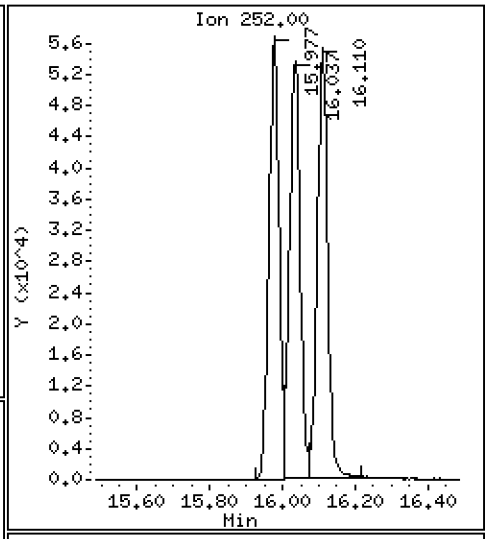
Column phase: Rxi-17sil

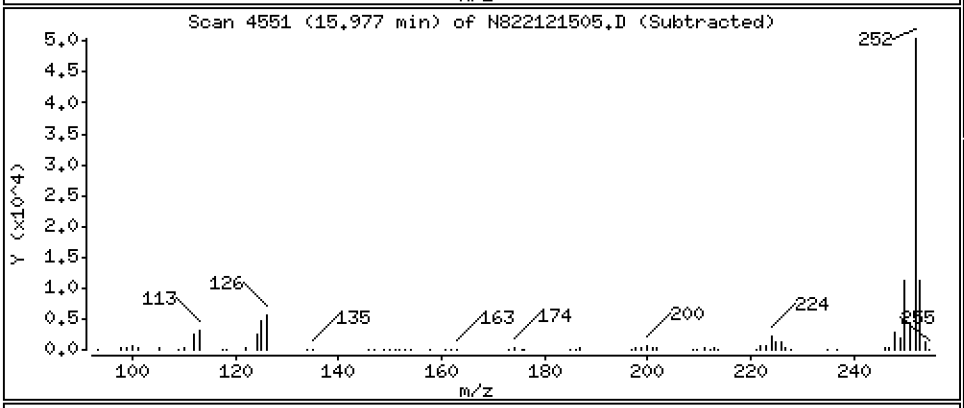
Column diameter: 0.25

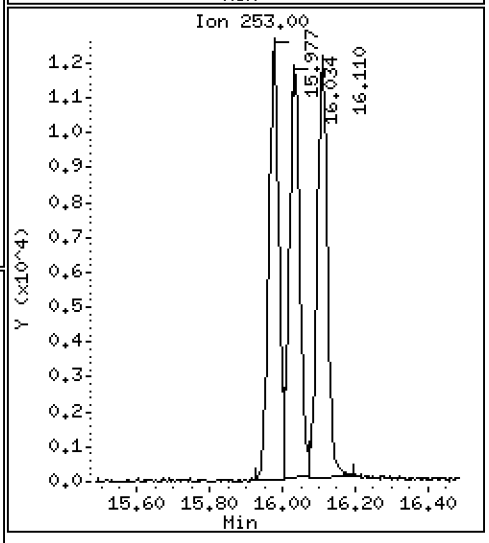
28 Benzo(b)fluoranthene

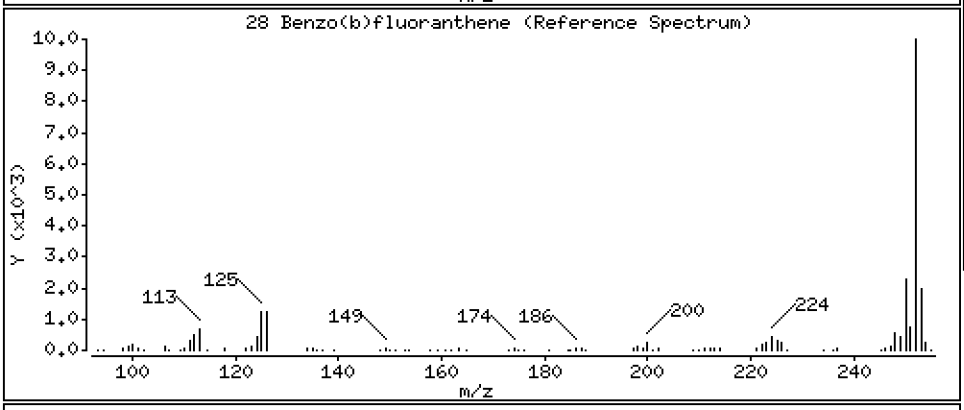
Concentration: 3.283 ug/mL

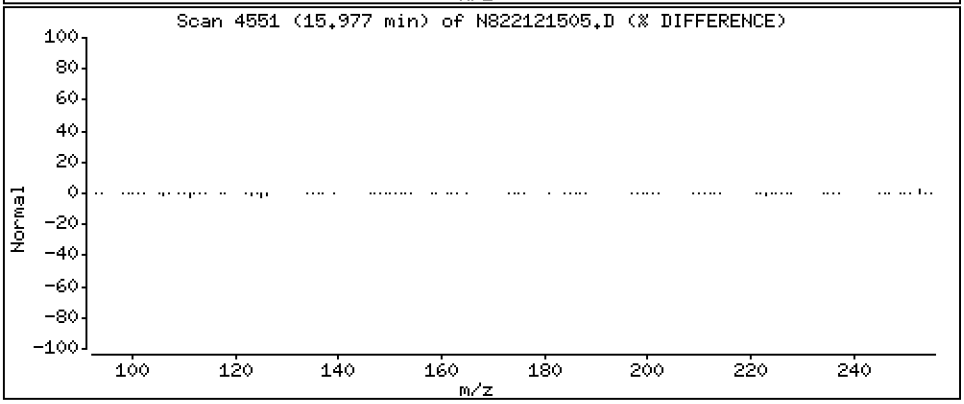












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121505.D

Date : 15-DEC-2022 16:41

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BS1,

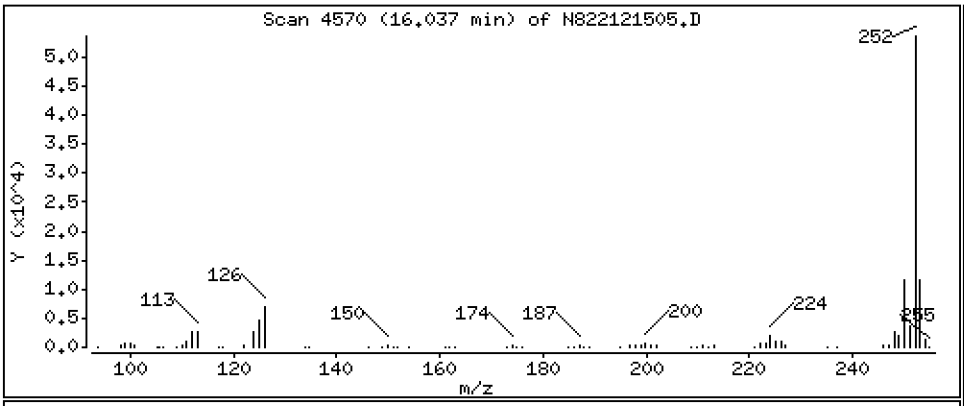
Operator: JZ

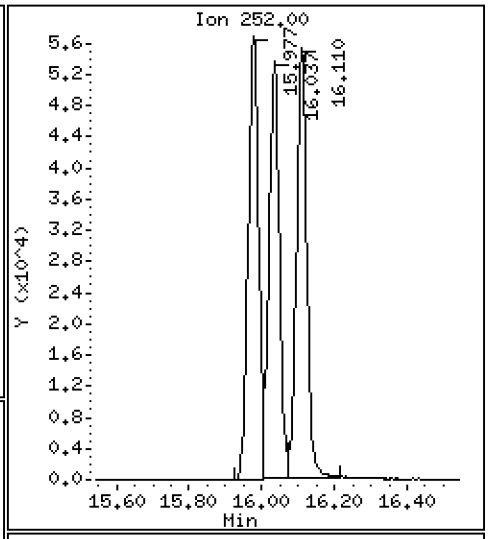
Column phase: Rxi-17sil

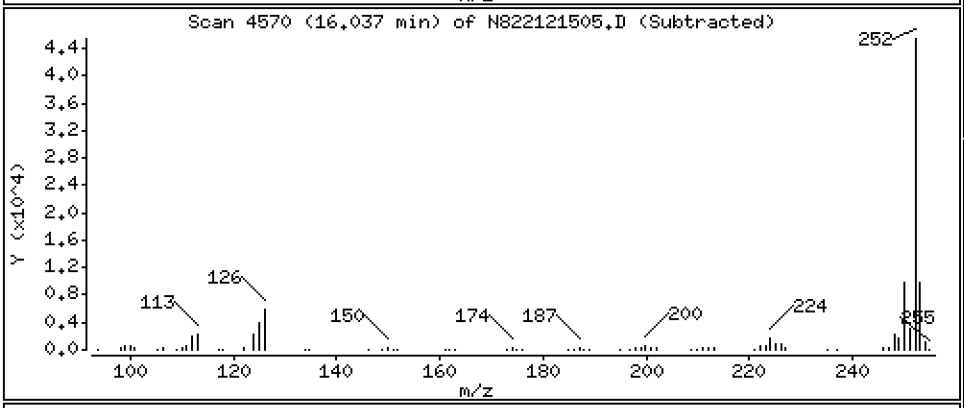
Column diameter: 0.25

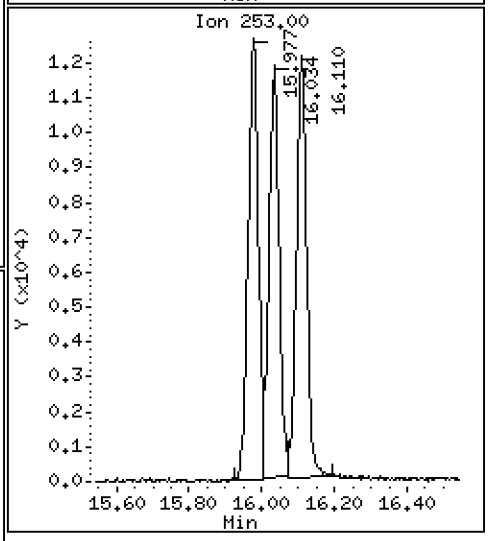
29 Benzo(k)fluoranthene

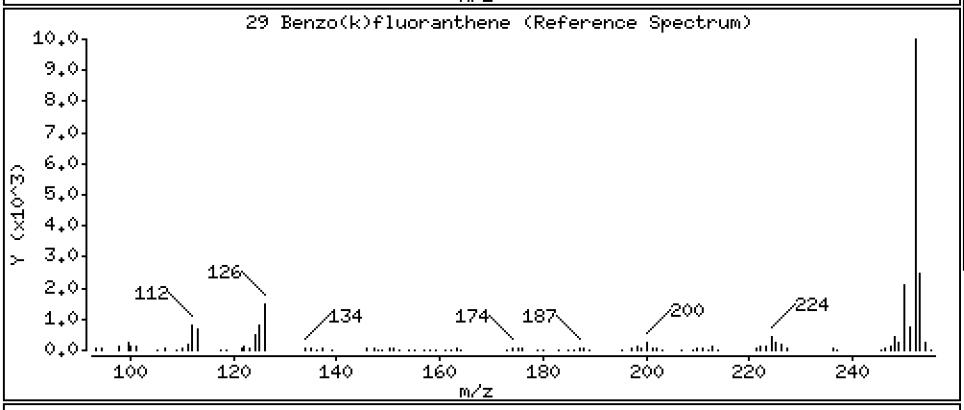
Concentration: 3.403 ug/mL

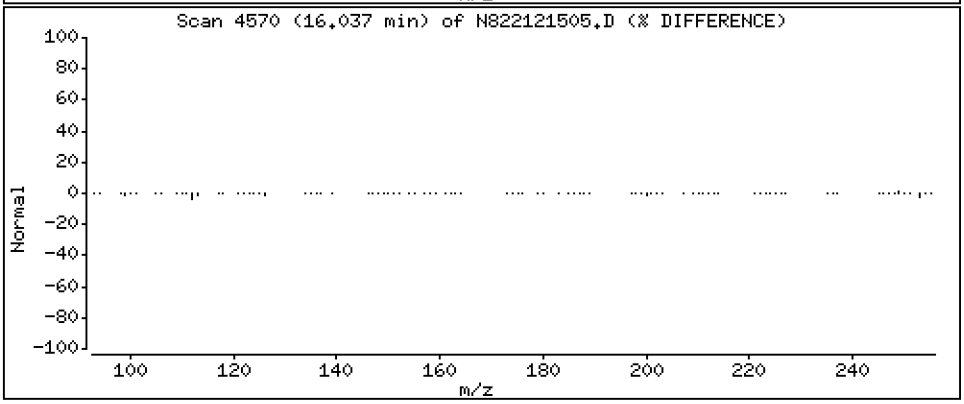












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121505.D

Date : 15-DEC-2022 16:41

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BS1,

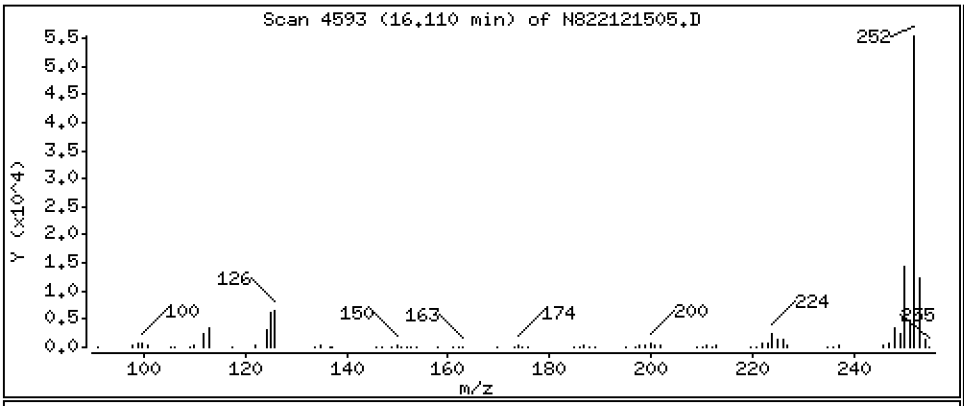
Operator: JZ

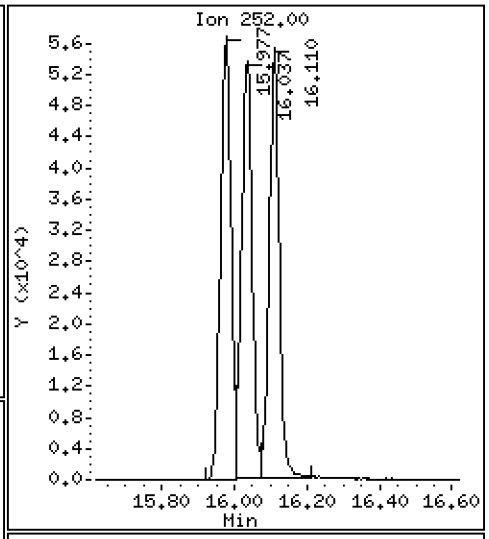
Column phase: Rxi-17sil

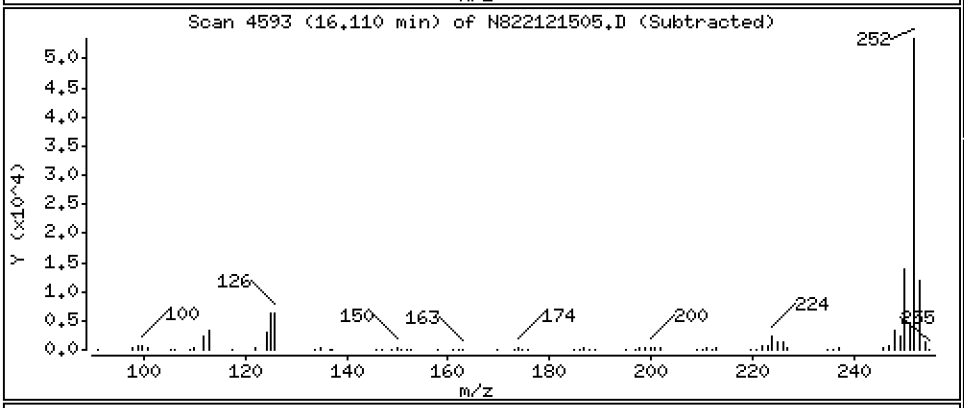
Column diameter: 0.25

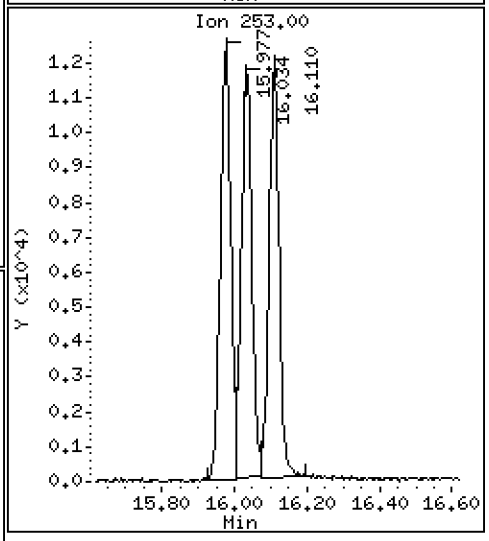
30 Benzo(j)fluoranthene

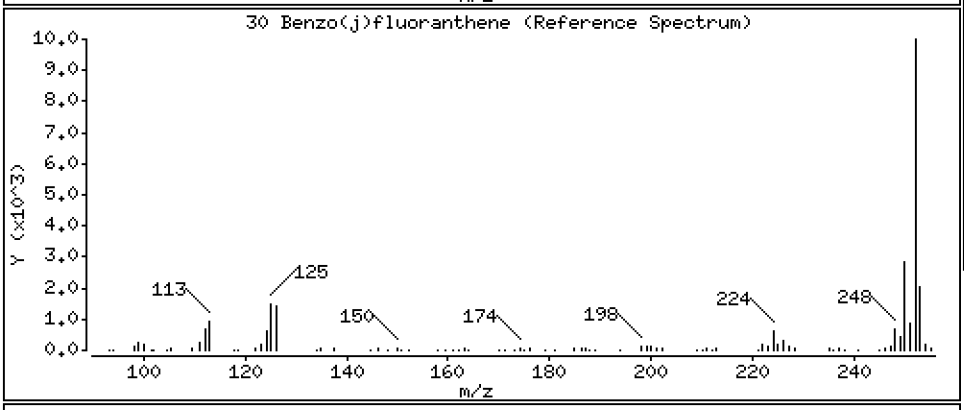
Concentration: 3.639 ug/mL

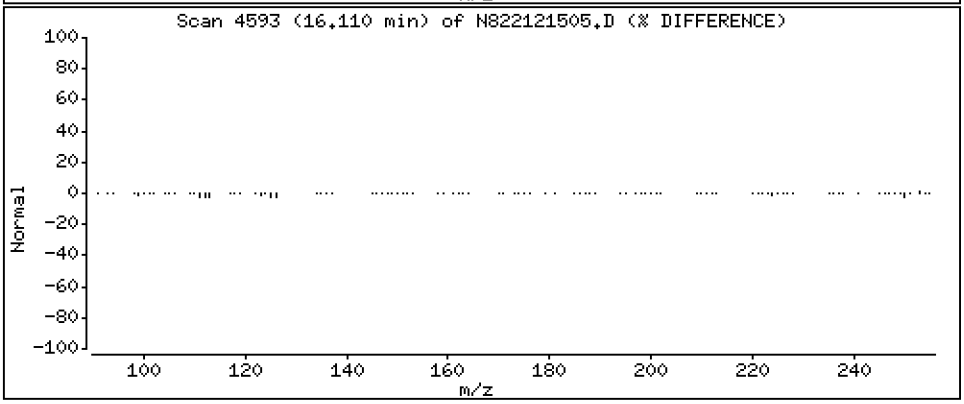












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121505.D

Date : 15-DEC-2022 16:41

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BS1,

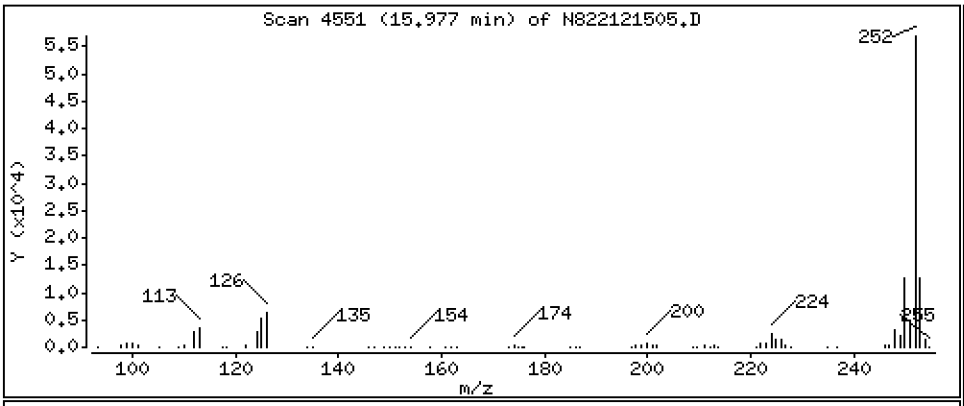
Operator: JZ

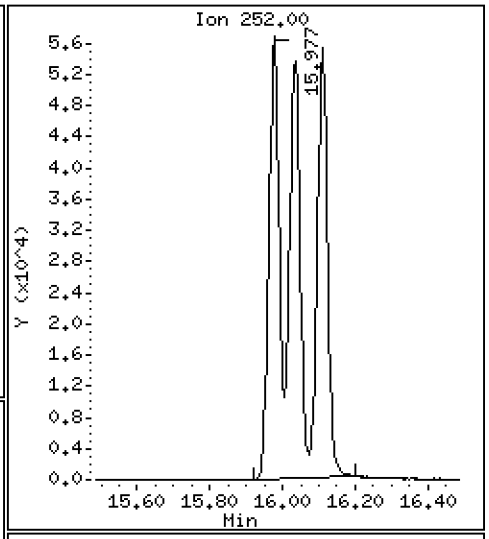
Column phase: Rxi-17sil

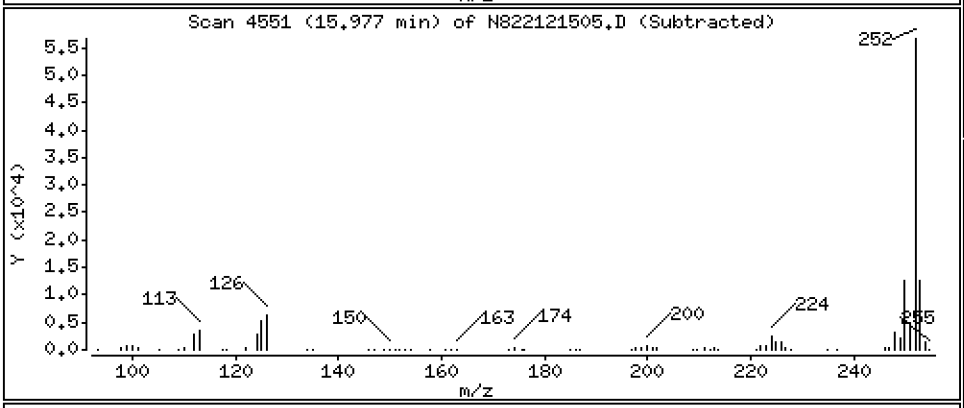
Column diameter: 0.25

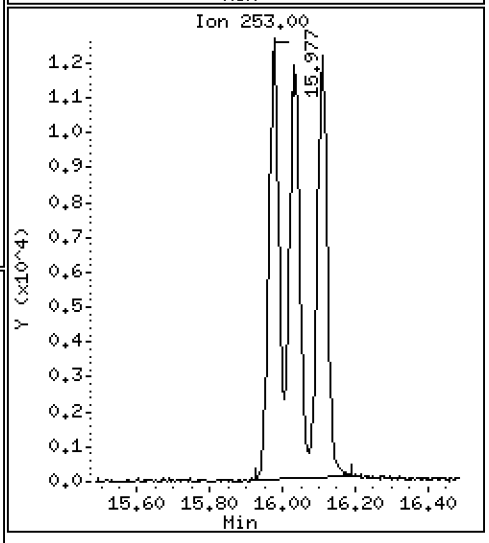
31 Total Benzofluoranthenes

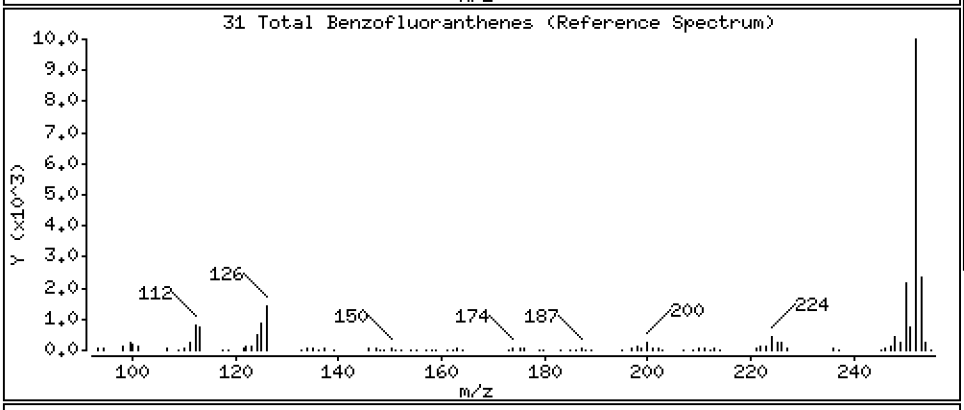
Concentration: 10.21 ug/mL

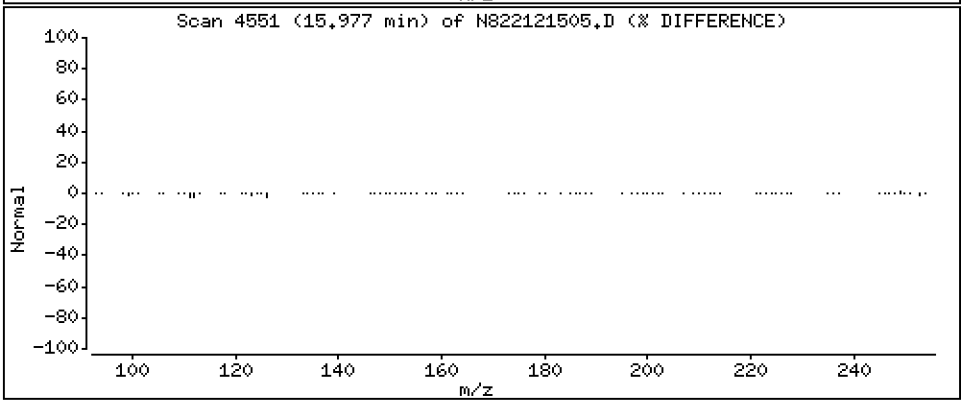












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121505.D

Date : 15-DEC-2022 16:41

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BS1,

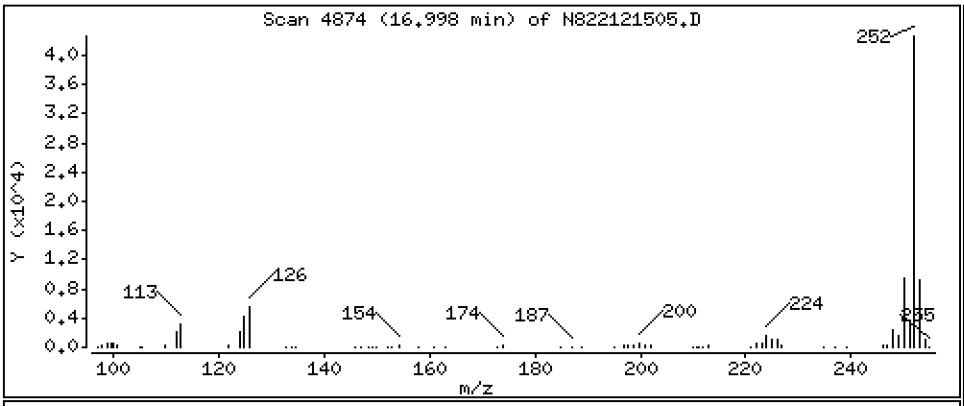
Operator: JZ

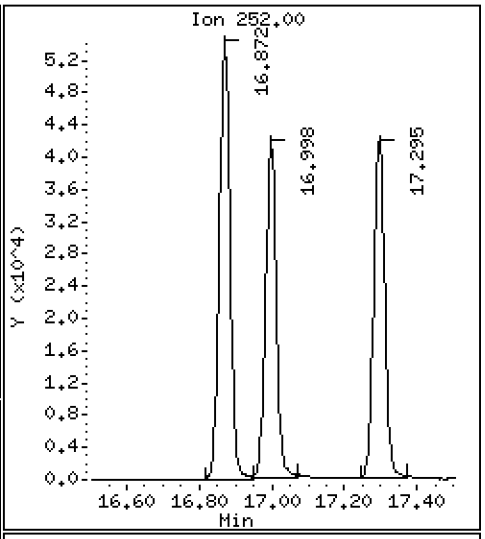
Column phase: Rxi-17sil

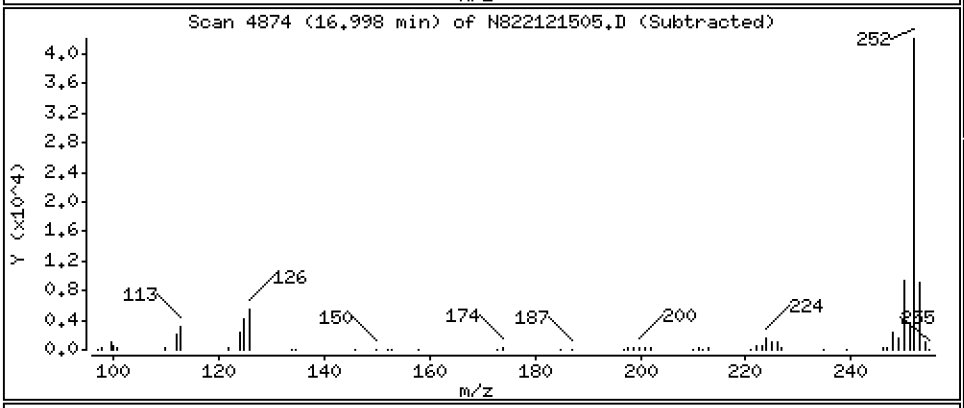
Column diameter: 0.25

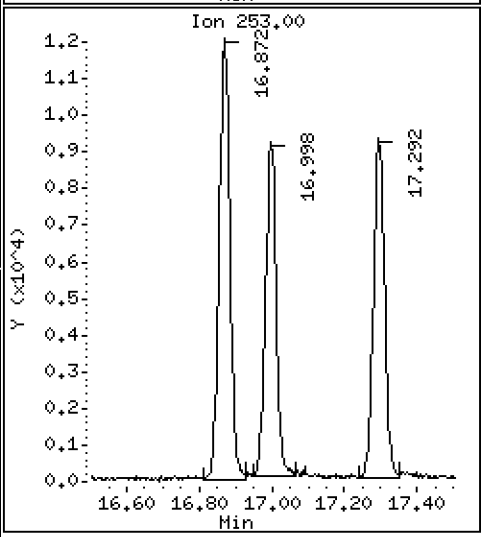
32 Benzo(a)pyrene

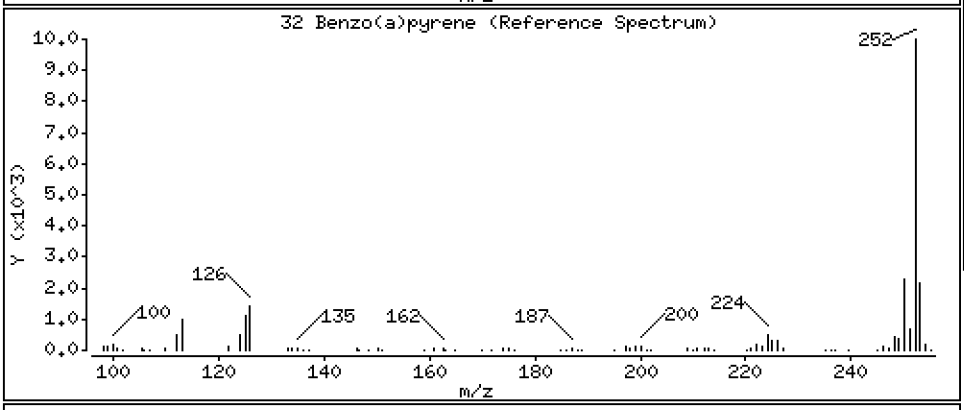
Concentration: 2.986 ug/mL

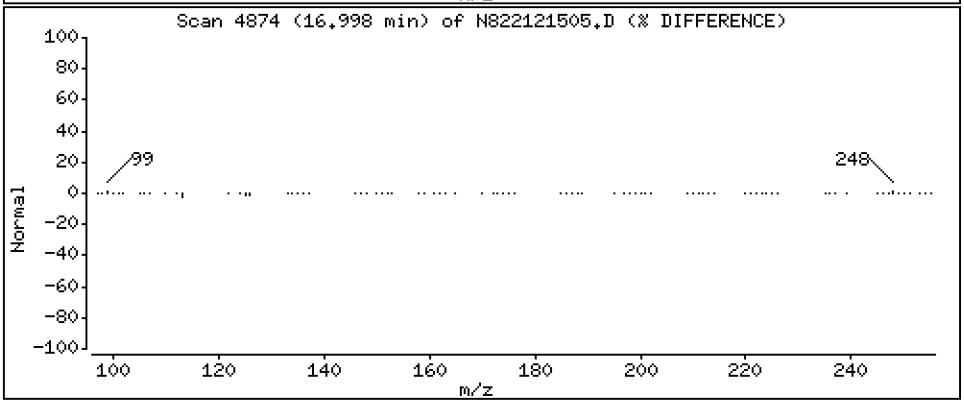












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Date : 15-DEC-2022 16:41

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BS1,

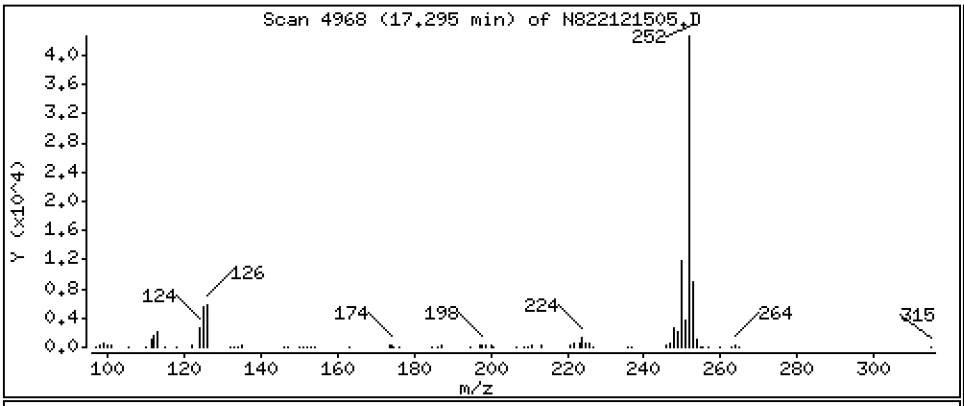
Operator: JZ

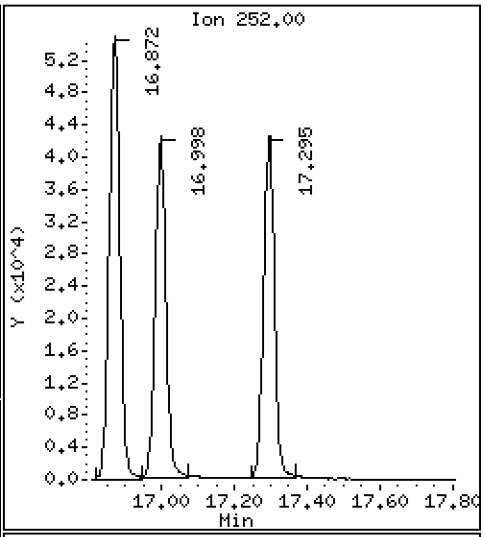
Column phase: Rxi-17sil

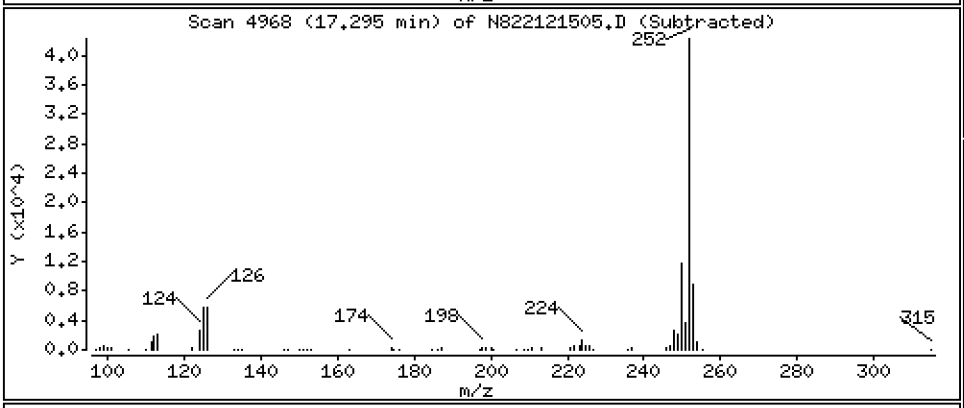
Column diameter: 0.25

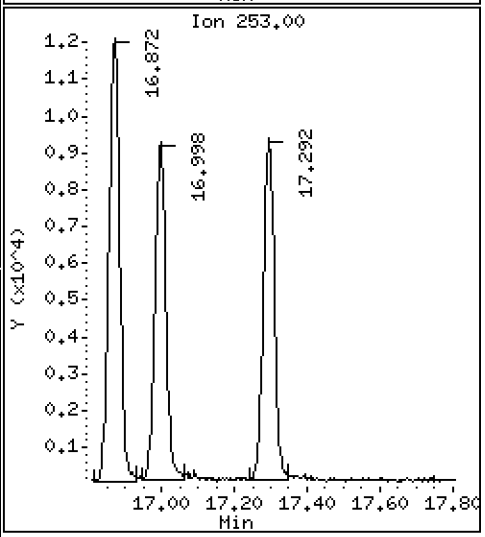
35 Perylene

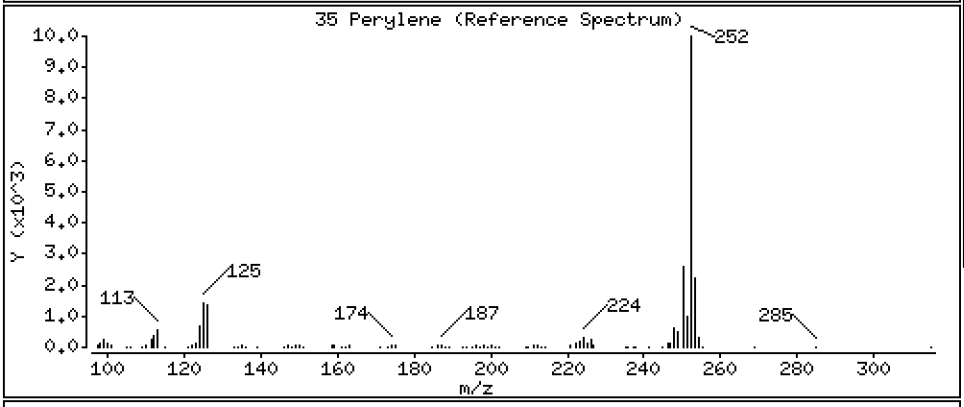
Concentration: 3.090 ug/mL

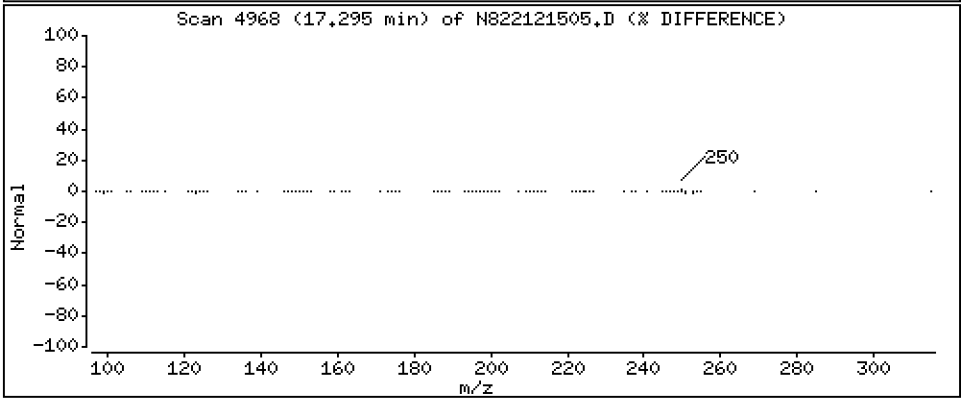












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Date : 15-DEC-2022 16:41

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BS1,

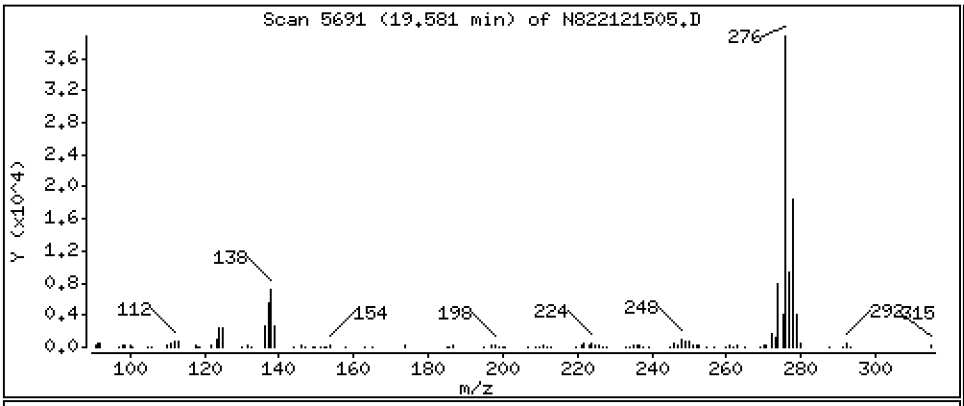
Operator: JZ

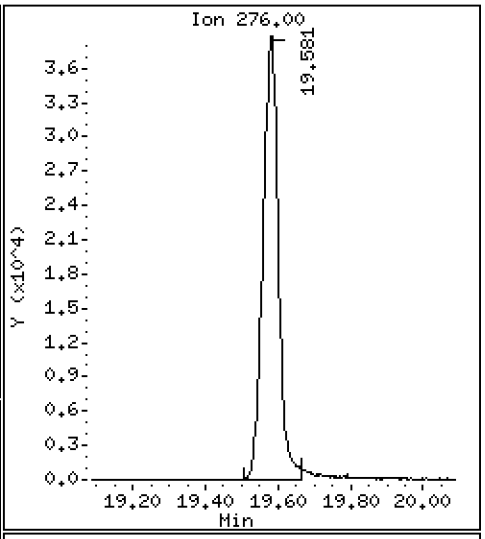
Column phase: Rxi-17sil

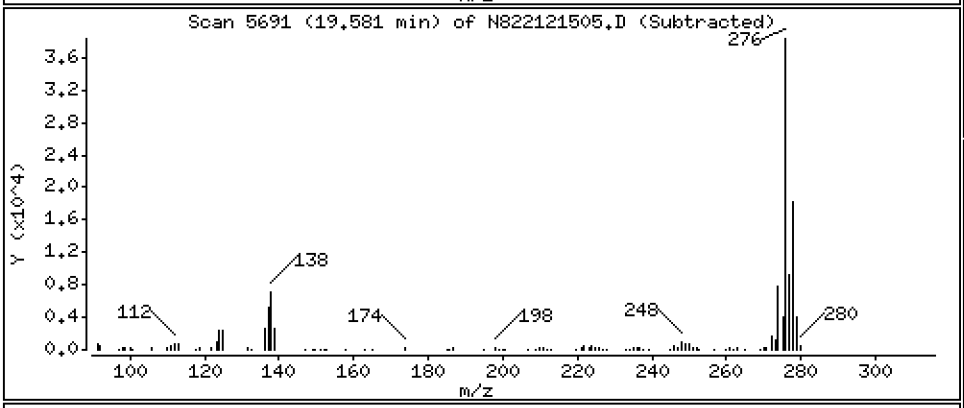
Column diameter: 0.25

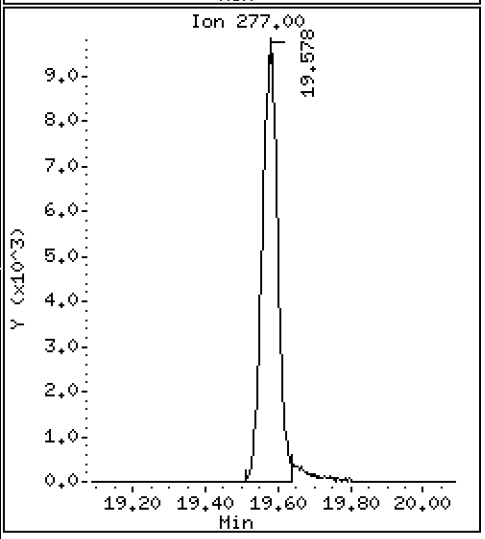
37 Indeno(1,2,3-cd)pyrene

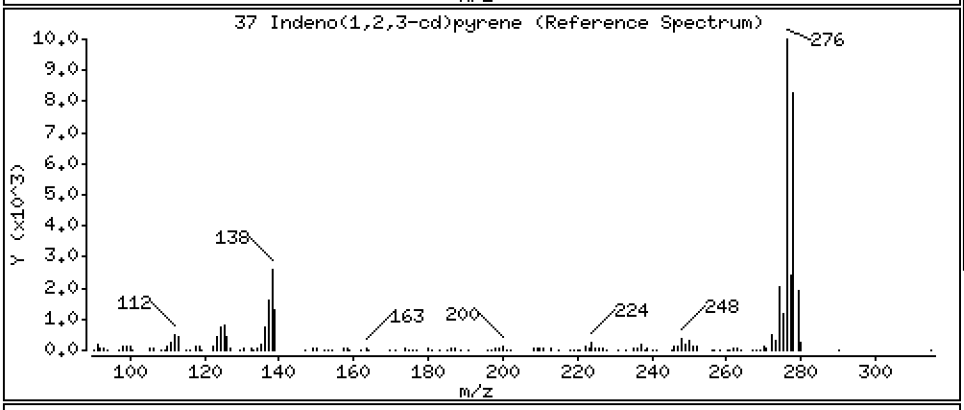
Concentration: 4.144 ug/mL

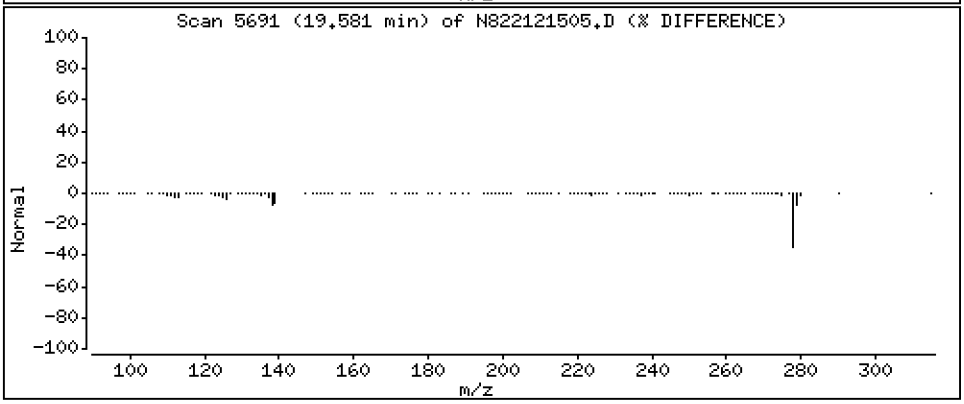












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Date : 15-DEC-2022 16:41

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BS1,

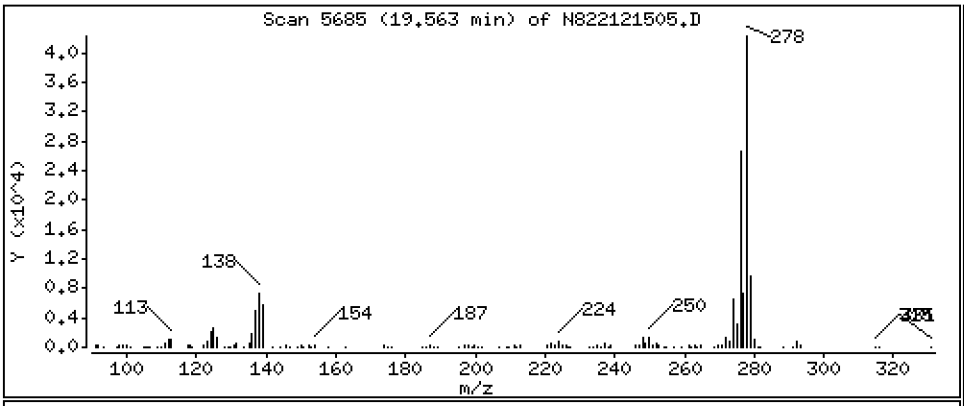
Operator: JZ

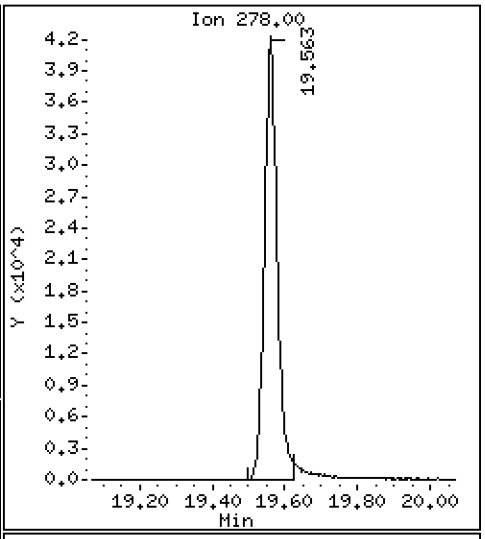
Column phase: Rxi-17sil

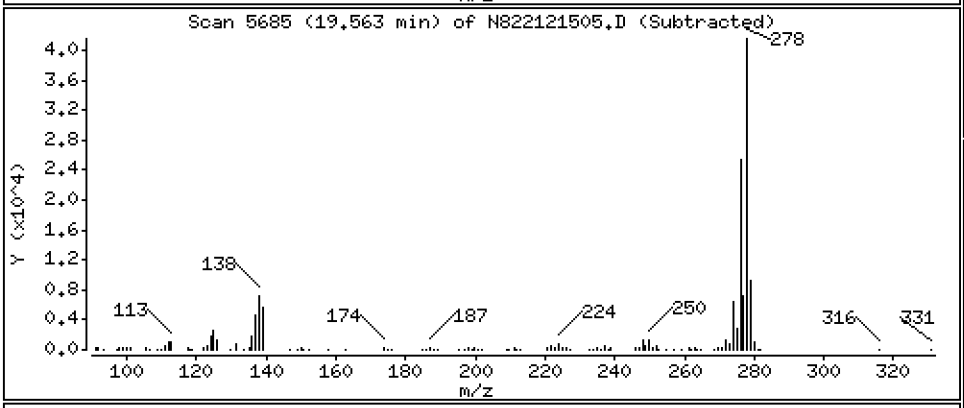
Column diameter: 0.25

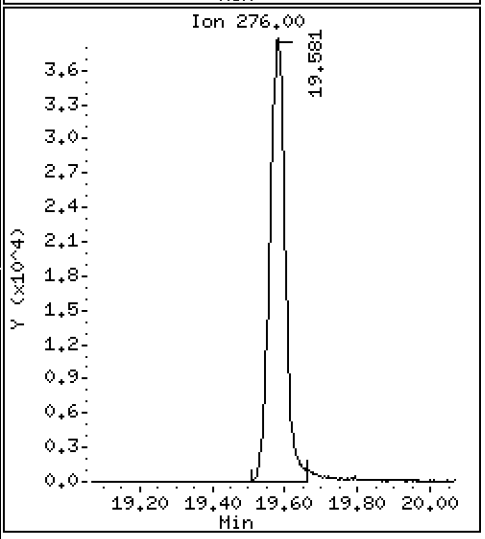
38 Dibenzo(a,h)anthracene

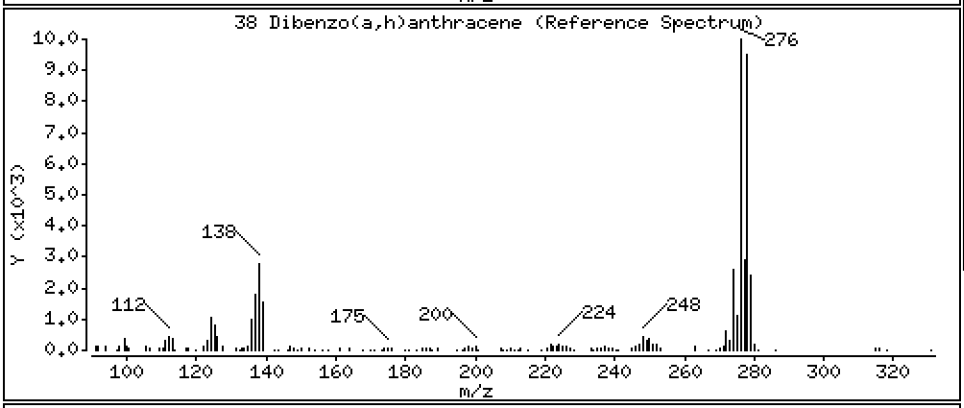
Concentration: 4.308 ug/mL

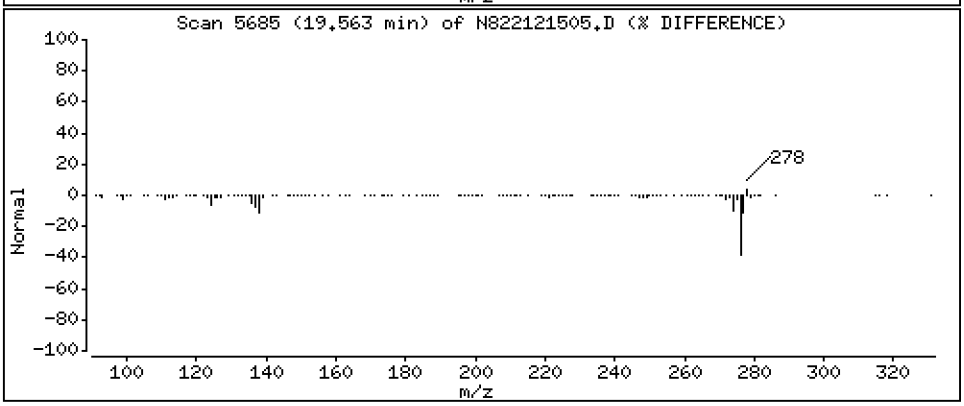












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Date : 15-DEC-2022 16:41

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BS1,

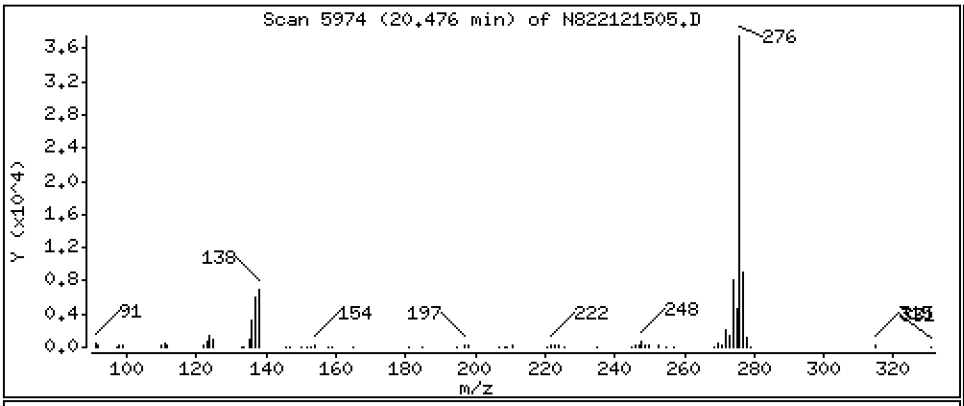
Operator: JZ

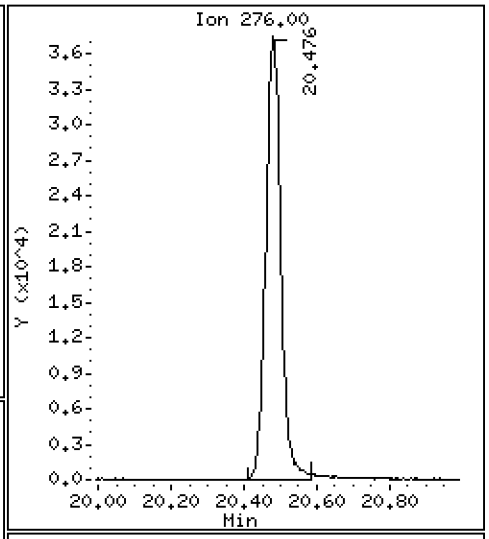
Column phase: Rxi-17sil

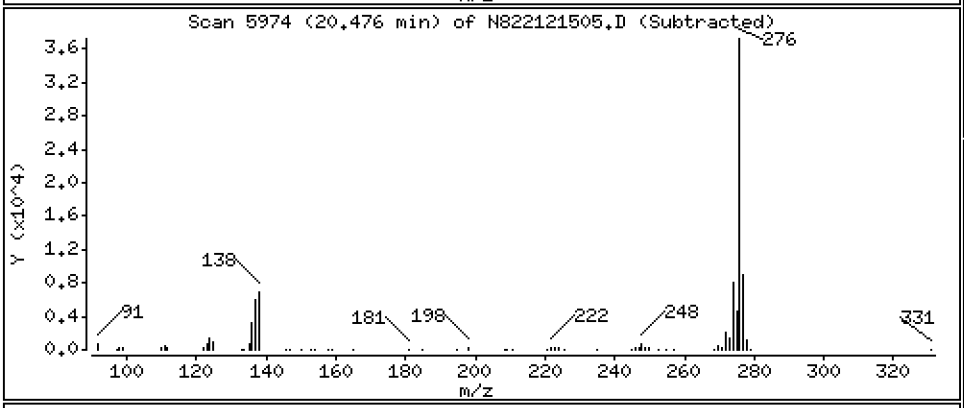
Column diameter: 0.25

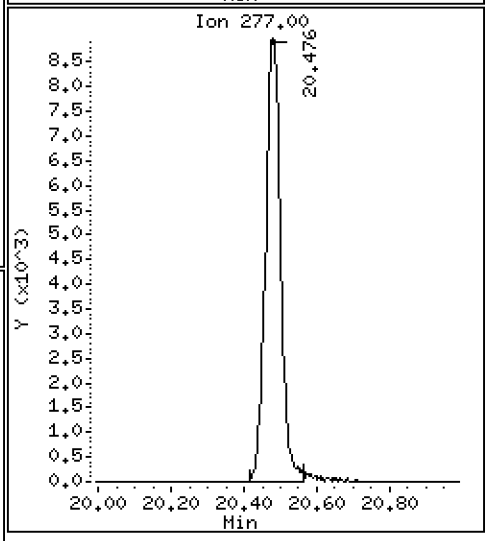
39 Benzo(g,h,i)perylene

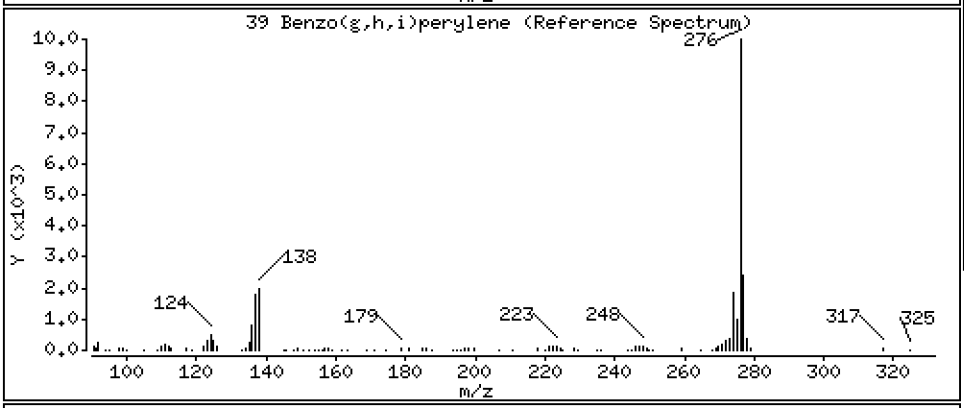
Concentration: 4.152 ug/mL

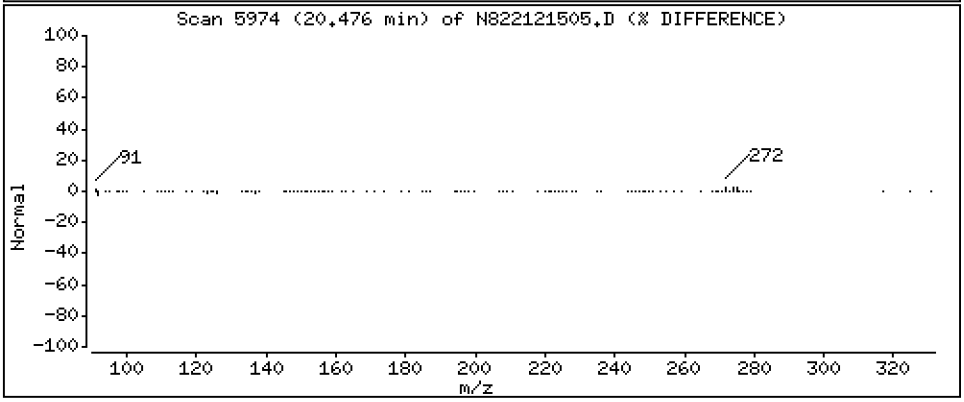












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20221215.b\N822121505.D
Lab Smp Id: BKL0196-BS1
Inj Date : 15-DEC-2022 16:41
Operator : JZ Inst ID: nt8.i
Smp Info : BKL0196-BS1,
Misc Info : 22-
Comment   : 1ul Injection
Method   : \\target\share\chem3\nt8.i\20221215.b\FSIMPNA220411.m
Meth Date : 16-Dec-2022 15:49 jianqing Quant Type: ISTD
Cal Date : 12-APR-2022 15:49 Cal File: NT822041208.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PNAXMDL.sub
Target Version: 4.14
Processing Host: JIANQING-202105

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
*	1 Naphthalene-d8	136	4.508	4.521	(1.000)	46637	2.00000	
	2 Naphthalene	128	4.536	4.549	(1.006)	60778	2.57195	2.572
$	3 2-Methylnaphthalene-d10	152	5.238	5.248	(1.162)	24827	1.41144	1.411
	4 2-Methylnaphthalene	141	5.286	5.295	(1.173)	35600	2.64760	2.648
	5 1-methylnaphthalene	141	5.479	5.488	(1.215)	36147	2.74899	2.749
	9 Acenaphthylene	152	6.671	6.677	(0.984)	57616	2.37454	2.375
*	10 Acenaphthene-d10	164	6.778	6.785	(1.000)	28083	2.00000	
	11 Acenaphthene	153	6.826	6.835	(1.007)	41137	2.55516	2.555
	12 Dibenzofuran	168	6.981	6.987	(1.030)	61546	2.72483	2.725
	14 Fluorene	166	7.452	7.458	(1.099)	51844	2.85313	2.853
*	15 Phenanthrene-d10	188	8.799	8.805	(1.000)	53033	2.00000	
	16 Phenanthrene	178	8.833	8.840	(1.004)	83300	2.96089	2.961
	17 Anthracene	178	8.875	8.881	(1.009)	75379	2.79736	2.797
	22 Fluoranthene	202	10.503	10.512	(1.194)	107404	3.48914	3.489
$	21 Fluoranthene-d10	212	10.468	10.478	(1.190)	62758	1.78959	1.790
	23 Pyrene	202	10.977	10.984	(0.816)	111759	3.17418	3.174
	24 Benzo(a)anthracene	228	13.327	13.333	(0.991)	114222	3.46907	3.469
*	25 Chrysene-d12	240	13.447	13.453	(1.000)	52093	2.00000	
	27 Chrysene	228	13.516	13.526	(1.005)	111477	3.54334	3.543
	28 Benzo(b)fluoranthene	252	15.976	15.986	(0.928)	115095	3.28274	3.283
	29 Benzo(k)fluoranthene	252	16.036	16.043	(0.931)	110663	3.40251	3.403
	30 Benzo(j)fluoranthene	252	16.109	16.119	(0.935)	108736	3.63919	3.639
	31 Total Benzofluoranthenes	252	15.976	15.986	(0.928)	330199	10.2110	10.21(M)
	32 Benzo(a)pyrene	252	16.998	17.004	(0.987)	86418	2.98597	2.986
*	33 Perylene-d12	264	17.222	17.229	(1.000)	49381	2.00000	
	35 Perylene	252	17.295	17.308	(1.004)	89565	3.09046	3.090
$	36 Dibenzo(a,h)anthracene-d14	292	19.464	19.470	(1.130)	59313	2.79599	2.796
	37 Indeno(1,2,3-cd)pyrene	276	19.581	19.587	(1.137)	117632	4.14412	4.144
	38 Dibenzo(a,h)anthracene	278	19.562	19.568	(1.136)	105493	4.30811	4.308
	39 Benzo(g,h,i)perylene	276	20.476	20.492	(1.189)	109644	4.15243	4.152

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt8.i
Lab File ID: N822121505.D
Lab Smp Id: BKL0196-BS1
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: \\target\share\chem3\nt8.i\20221215.b\FSIMPNA220411.m
Misc Info: 22-

Calibration Date: 15-DEC-2022
Calibration Time: 10:02
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	49492	24746	98984	46637	-5.77
10 Acenaphthene-d10	30076	15038	60152	28083	-6.63
15 Phenanthrene-d10	58825	29413	117650	53033	-9.85
25 Chrysene-d12	58593	29297	117186	52093	-11.09
33 Perylene-d12	63012	31506	126024	49381	-21.63

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	4.52	4.02	5.02	4.51	-0.28
10 Acenaphthene-d10	6.79	6.29	7.29	6.78	-0.09
15 Phenanthrene-d10	8.81	8.31	9.31	8.80	-0.07
25 Chrysene-d12	13.45	12.95	13.95	13.45	-0.05
33 Perylene-d12	17.23	16.73	17.73	17.22	-0.04

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

REVIEW SUMMARY FOR FILE - N822121505.D

Lab ID: BKL0196-BS1
nt8.i, 20221215.b\FSIMPNA220411.m,   15-DEC-2022 16:41

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

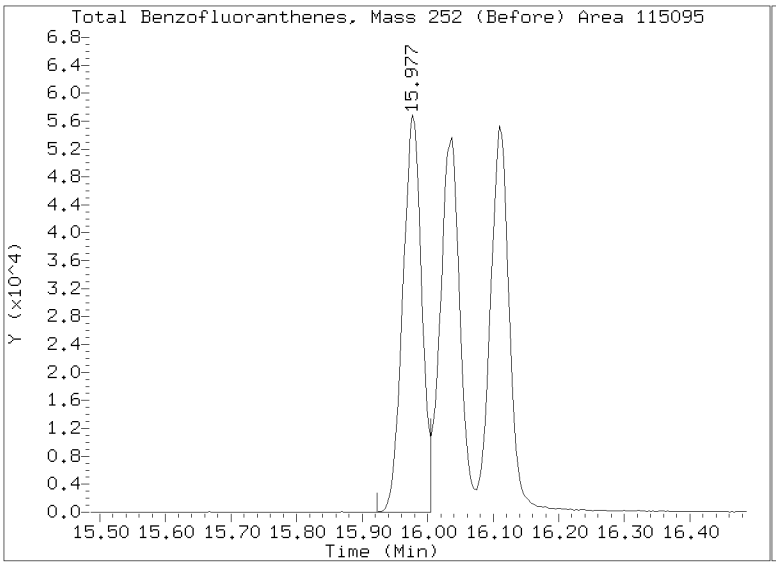
No RRT check performed

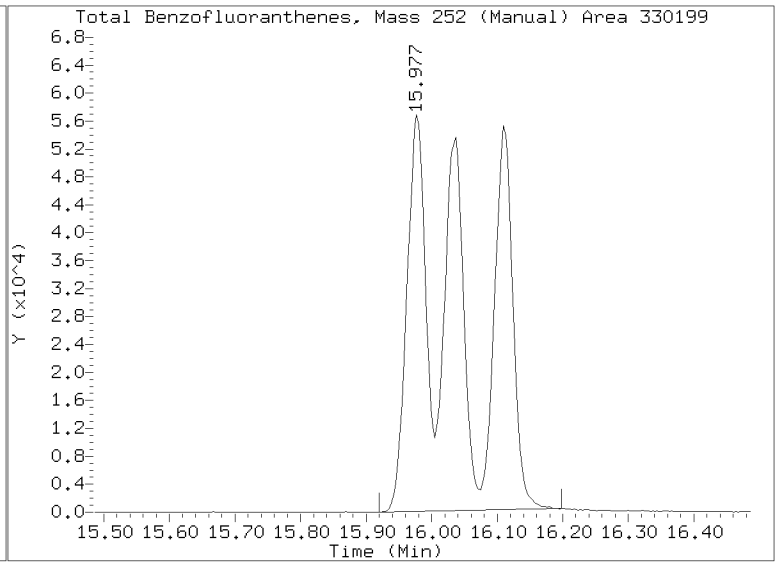
On Column LOD for nt8.i, 20221215.b\FSIMPNA220411.m, PNAXMDL.sub = 0.0080

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20221215.b/N822121505.D
Injection Date: 15-DEC-2022 16:41
Lab ID:BKL0196-BS1 Client ID:
Report Date: 12/16/2022 16:17





Data File: \\target\share\chem3\nt8.i\20221215.b\N822121506.D

Date : 15-DEC-2022 17:08

Client ID:

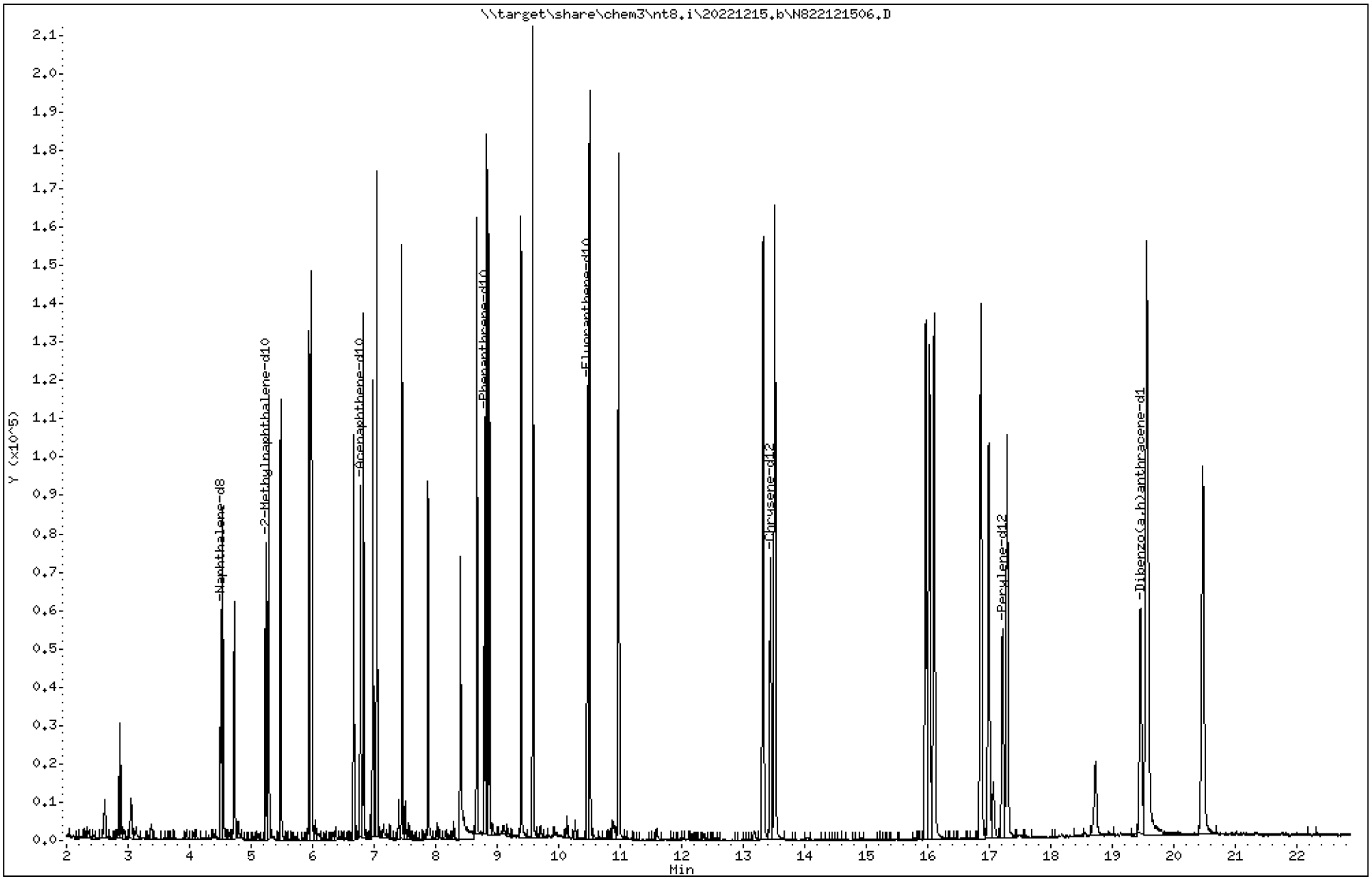
Instrument: nt8.i

Sample Info: BKL0196-BSD1,

Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25



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Date : 15-DEC-2022 17:08

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BSD1,

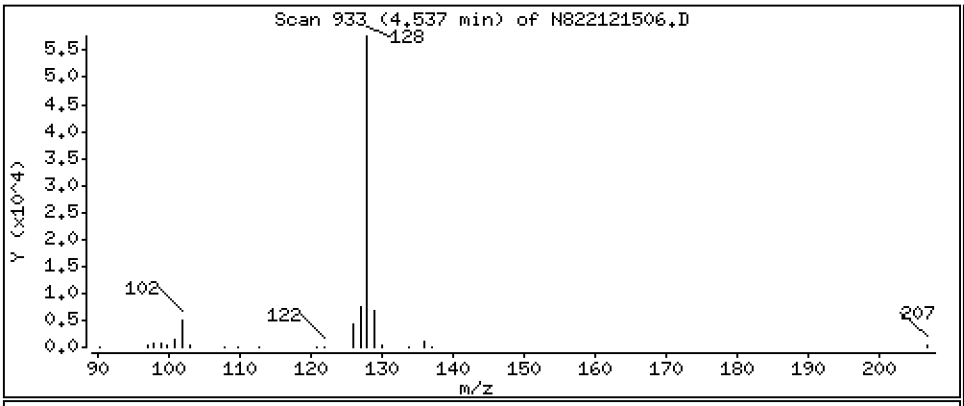
Operator: JZ

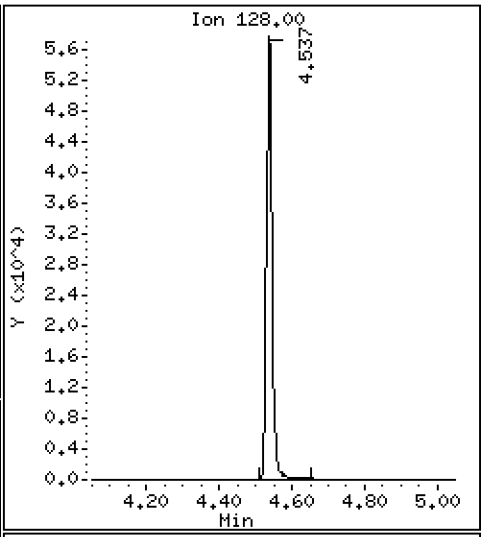
Column phase: Rxi-17sil

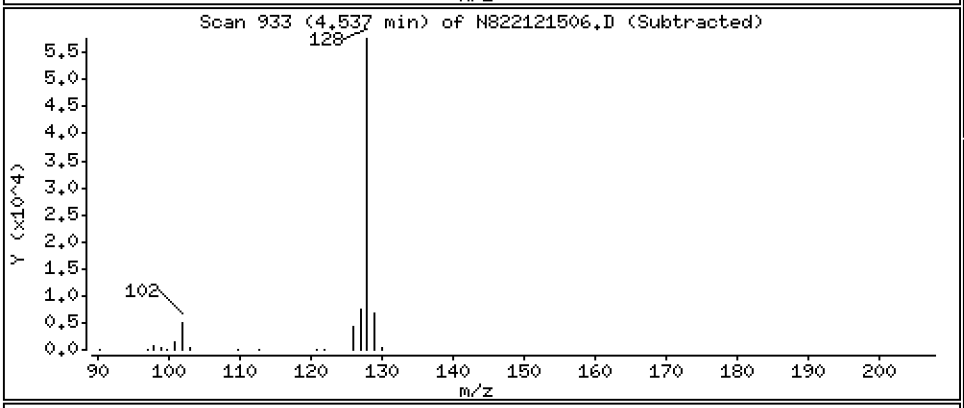
Column diameter: 0.25

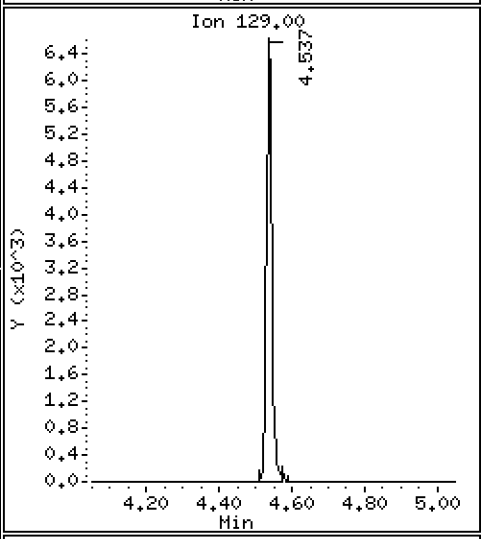
2 Naphthalene

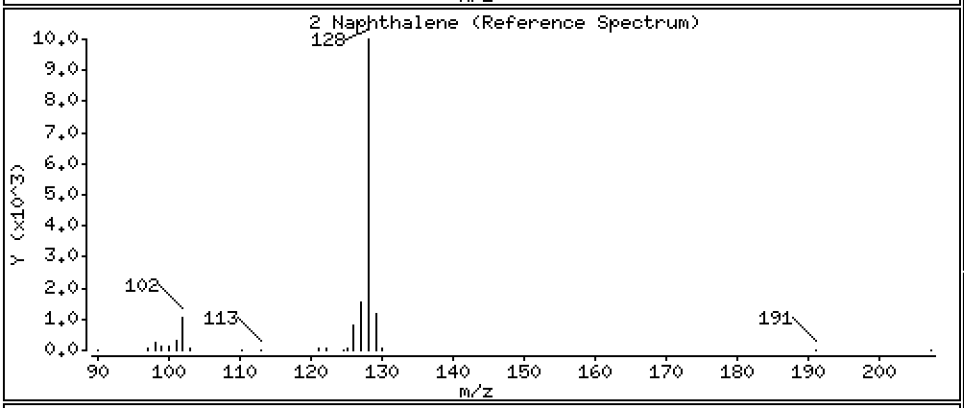
Concentration: 2.858 ug/mL

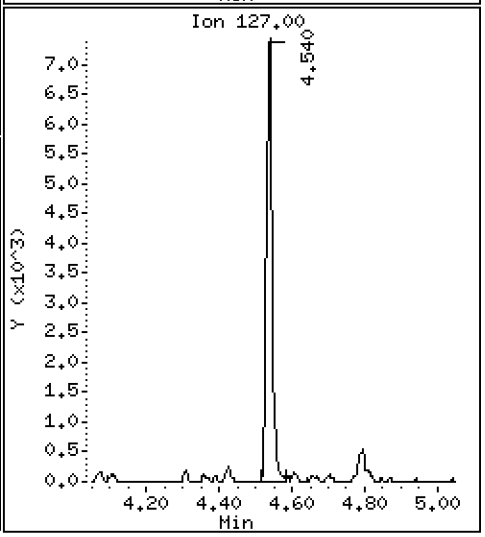


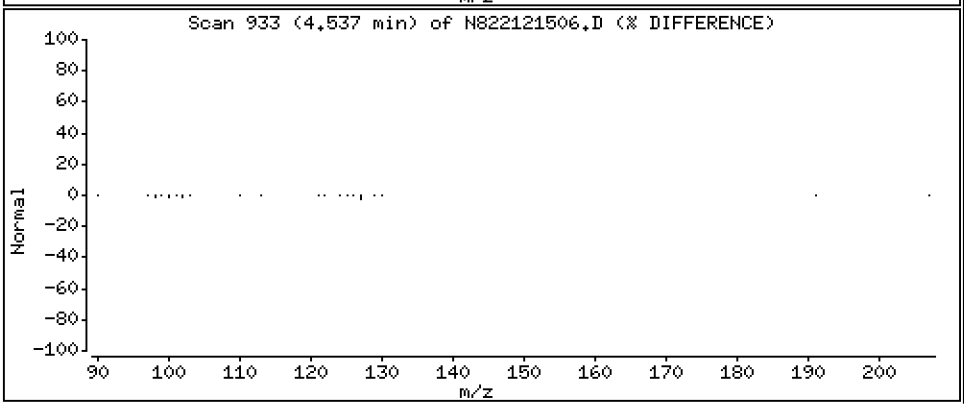












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121506.D

Date : 15-DEC-2022 17:08

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BSD1,

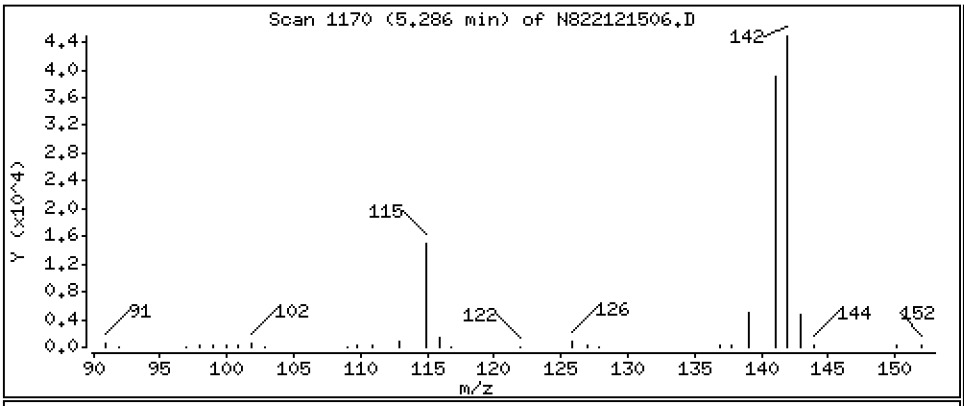
Operator: JZ

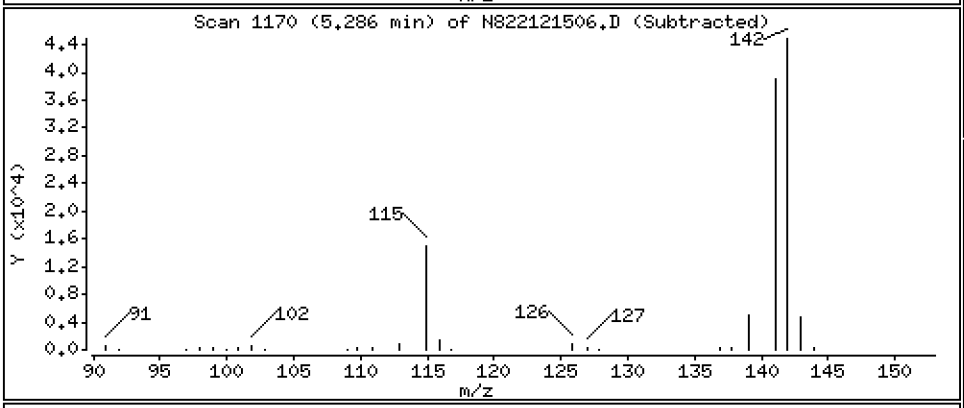
Column phase: Rxi-17sil

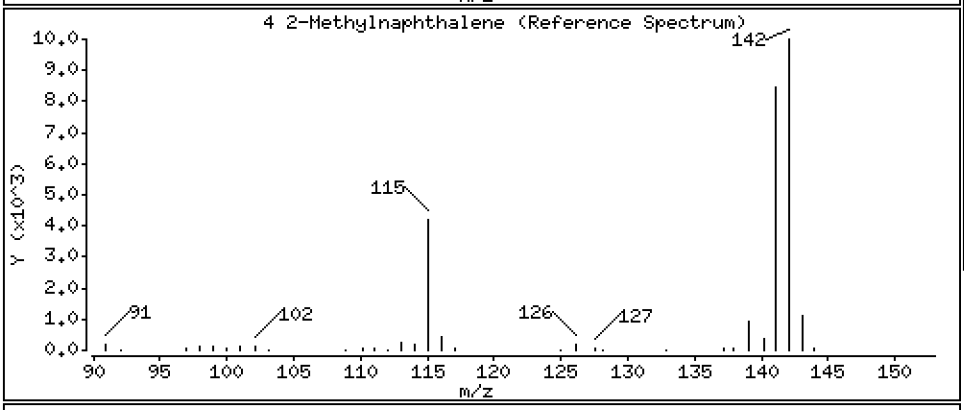
Column diameter: 0.25

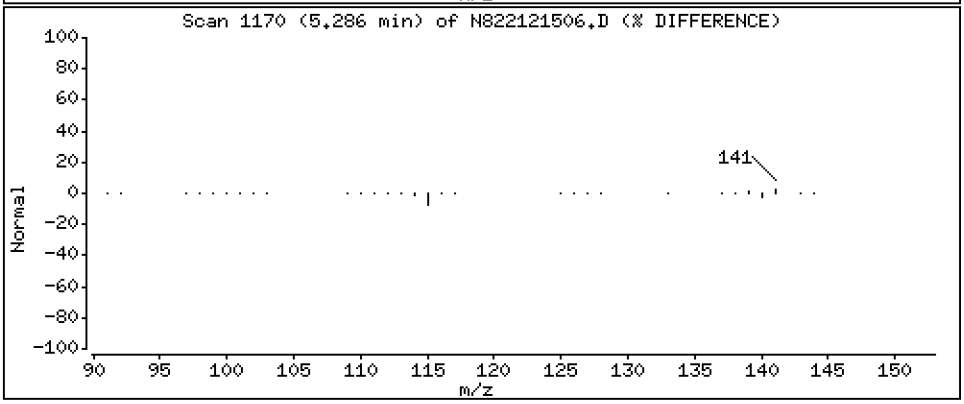
4 2-Methylnaphthalene

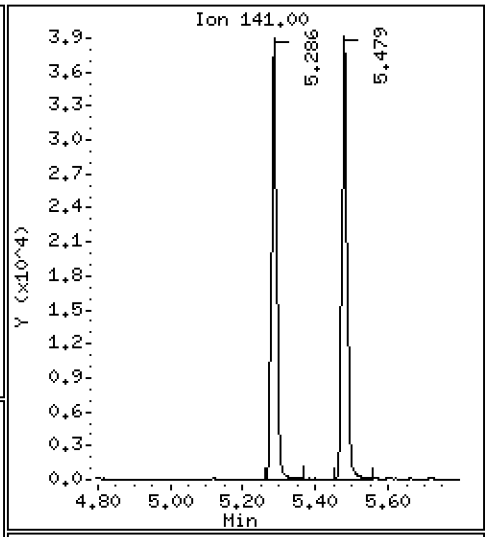
Concentration: 2.948 ug/mL

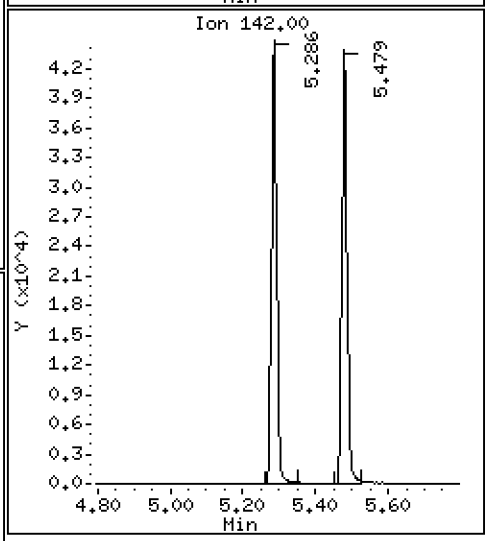












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121506.D

Date : 15-DEC-2022 17:08

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BSD1,

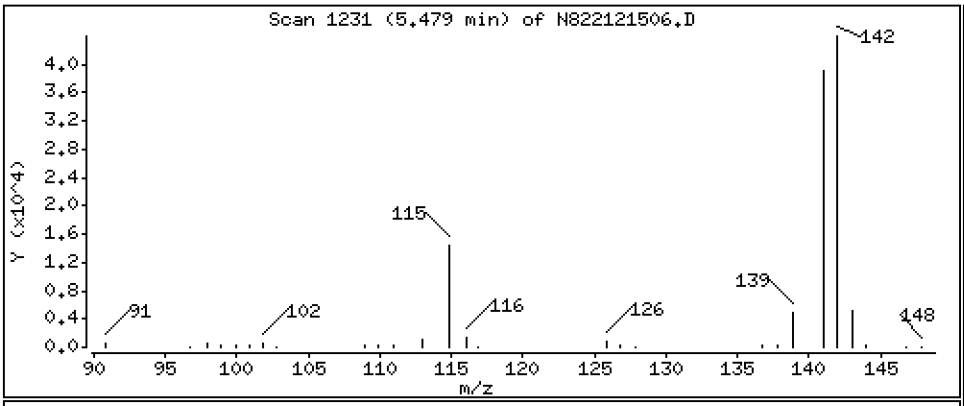
Operator: JZ

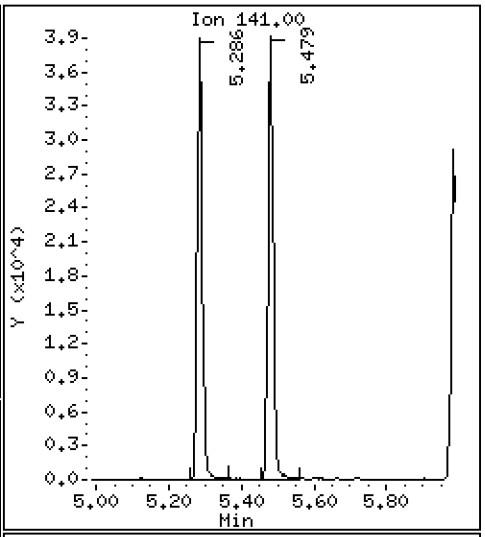
Column phase: Rxi-17sil

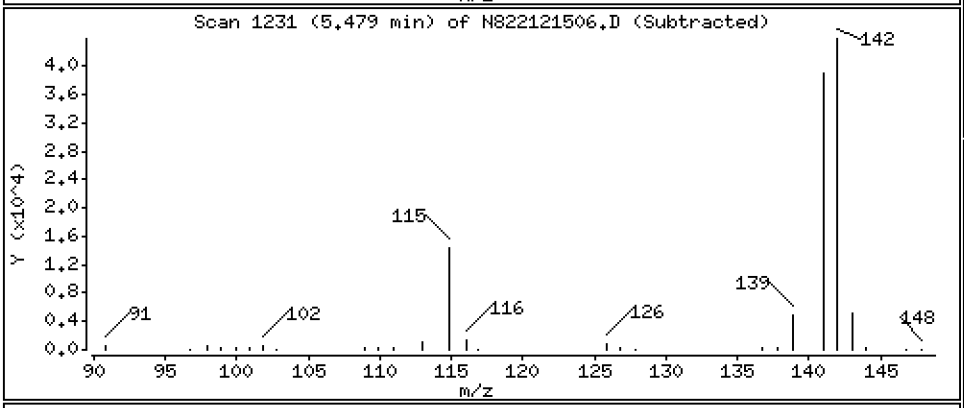
Column diameter: 0.25

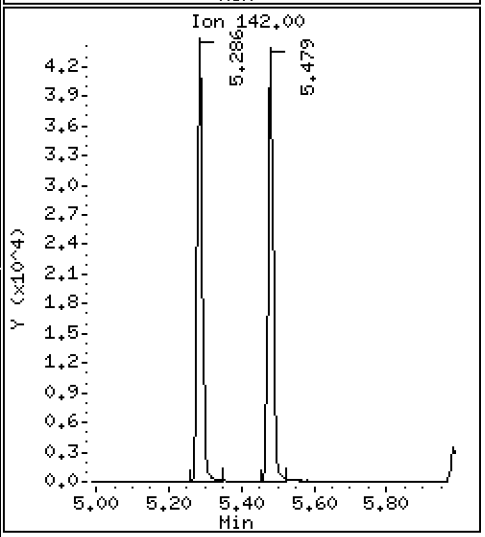
5 1-methylnaphthalene

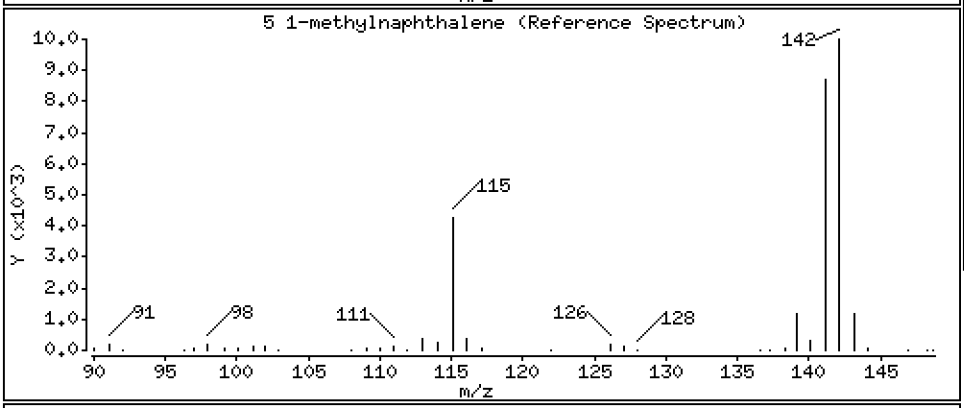
Concentration: 3.074 ug/mL

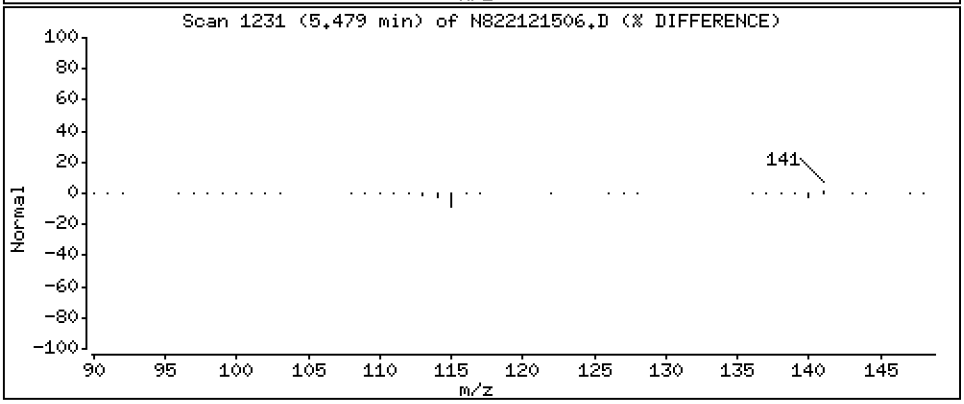












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121506.D

Date : 15-DEC-2022 17:08

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BSD1,

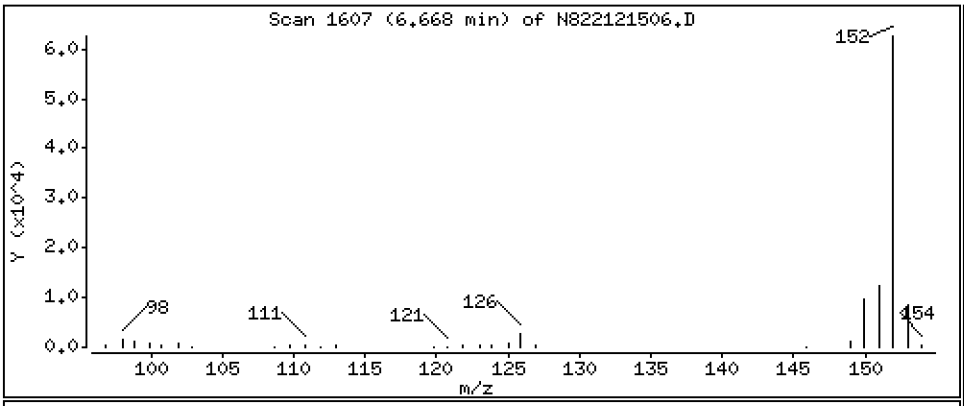
Operator: JZ

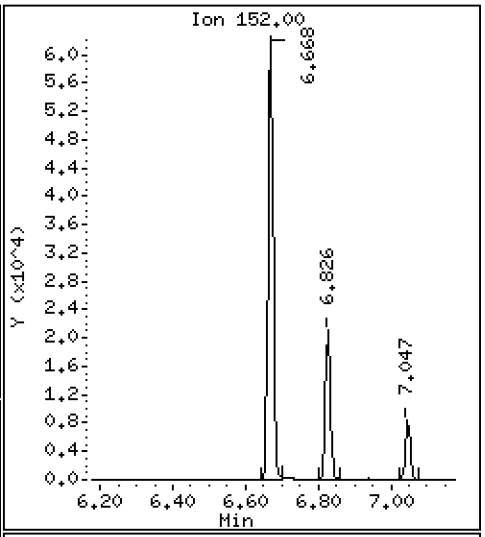
Column phase: Rxi-17sil

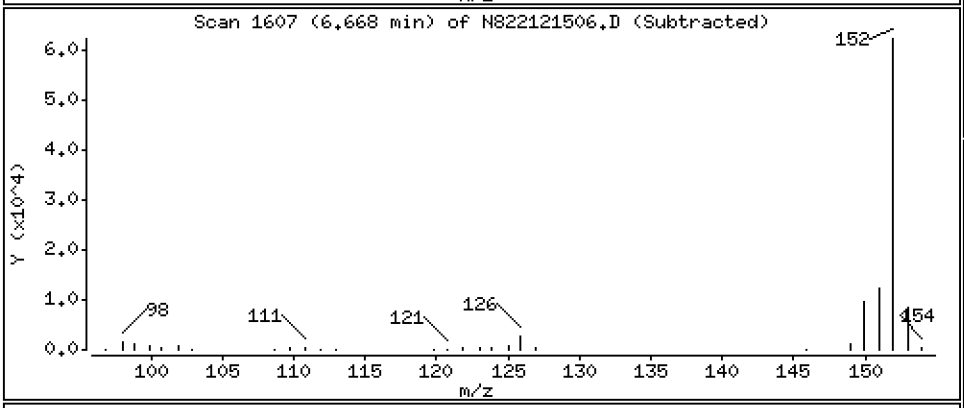
Column diameter: 0.25

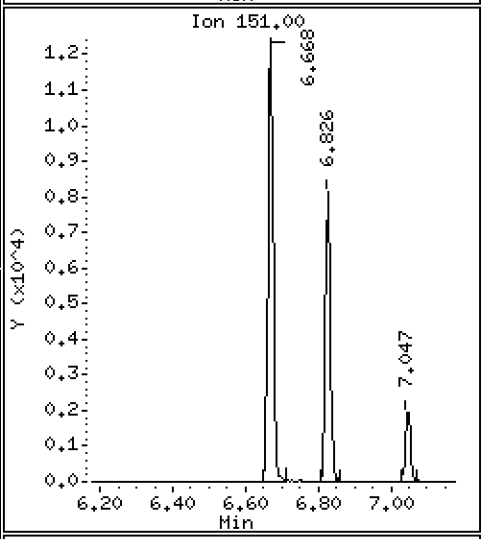
9 Acenaphthylene

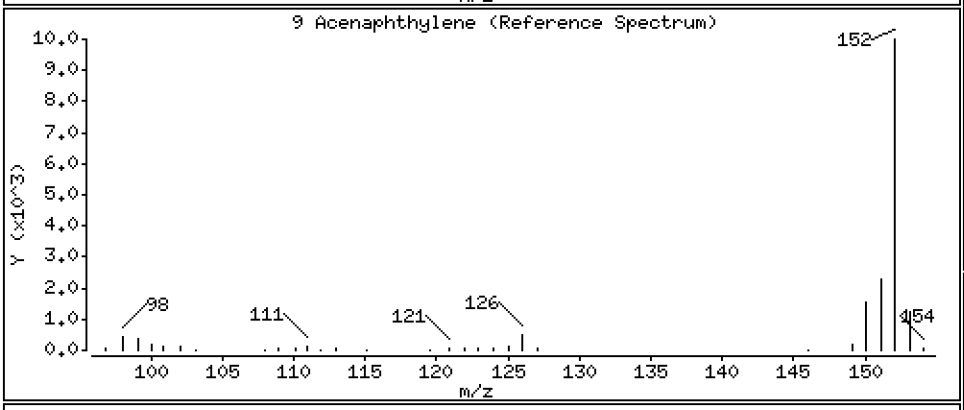
Concentration: 2.588 ug/mL

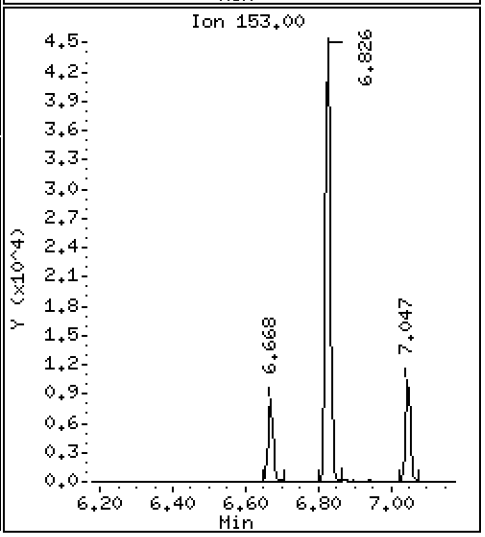


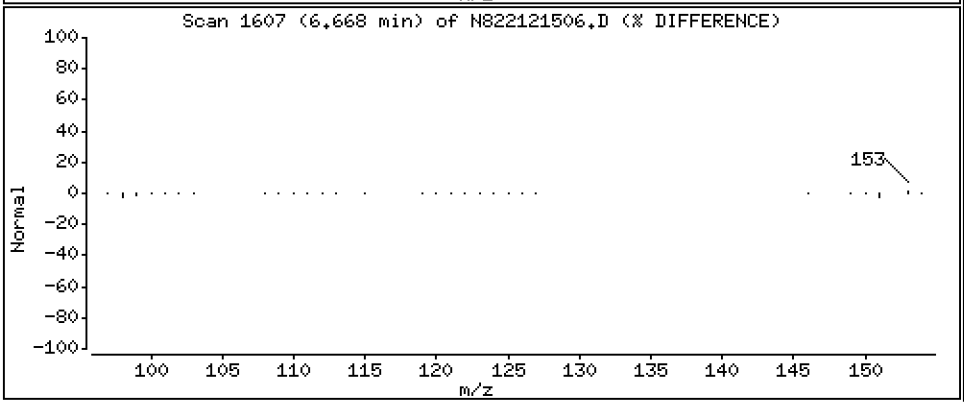












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Date : 15-DEC-2022 17:08

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BSD1,

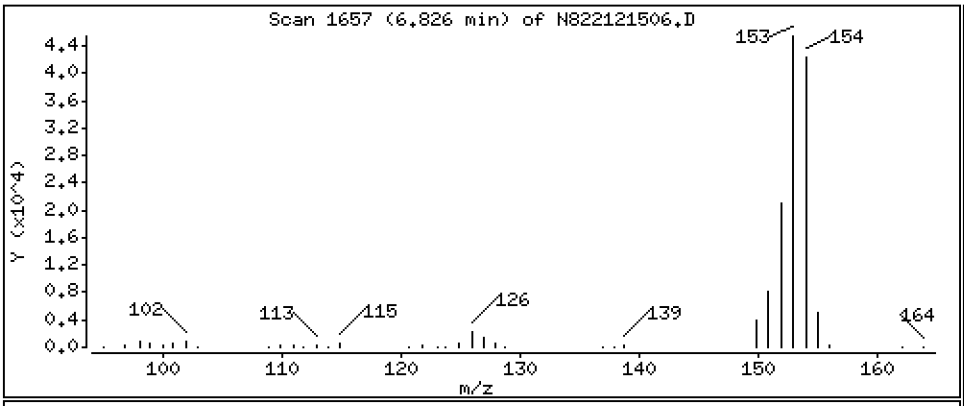
Operator: JZ

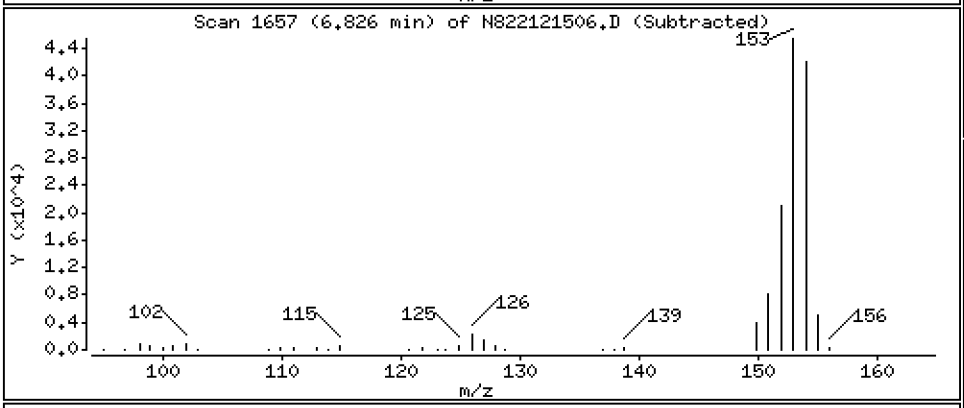
Column phase: Rxi-17sil

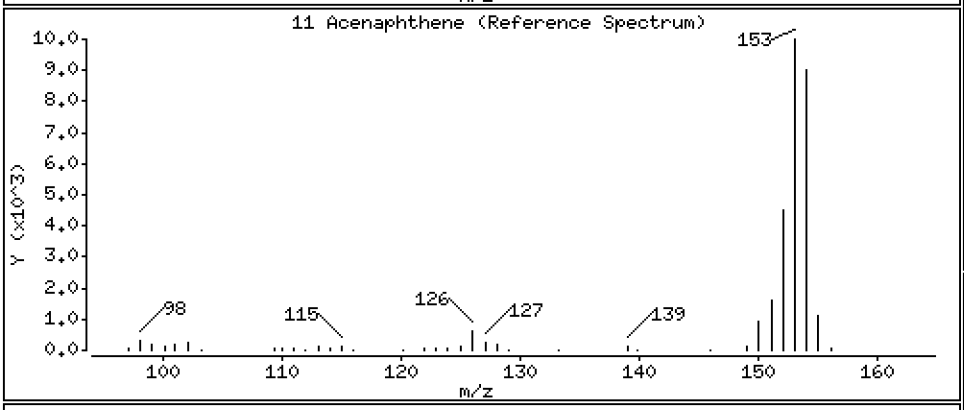
Column diameter: 0.25

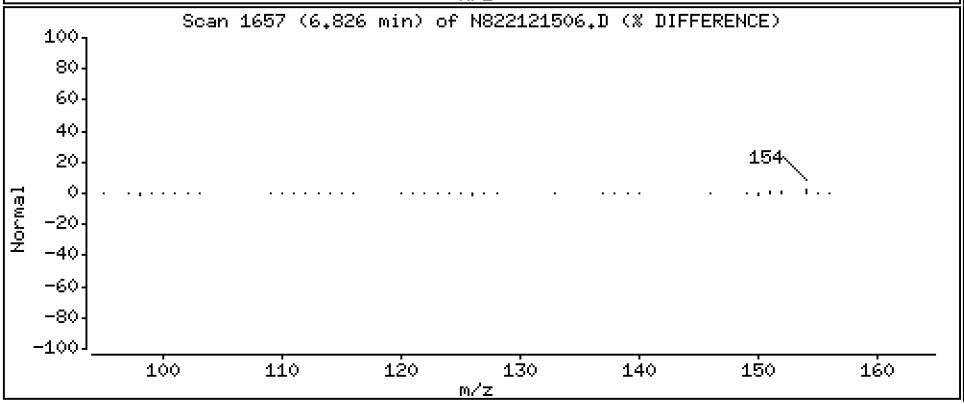
11 Acenaphthene

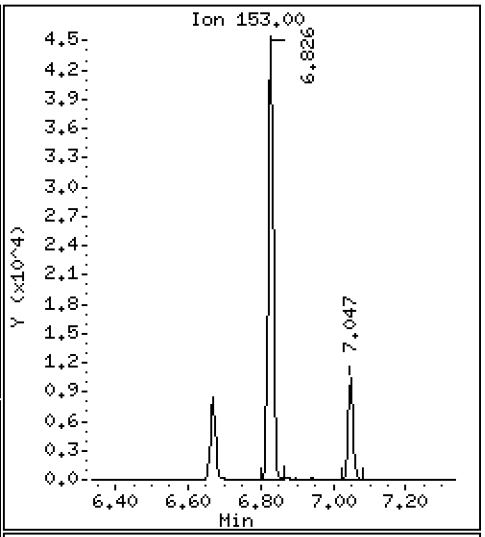
Concentration: 2.788 ug/mL

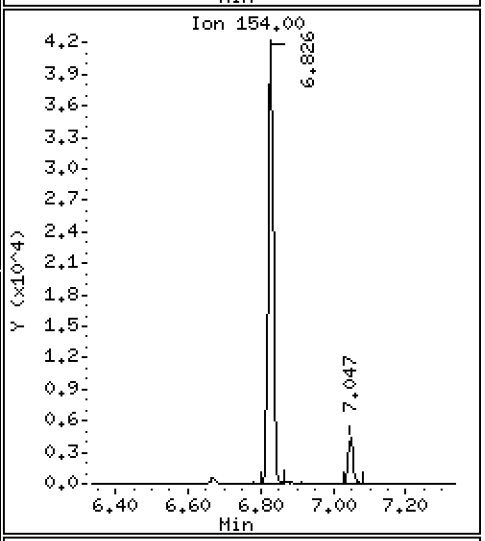


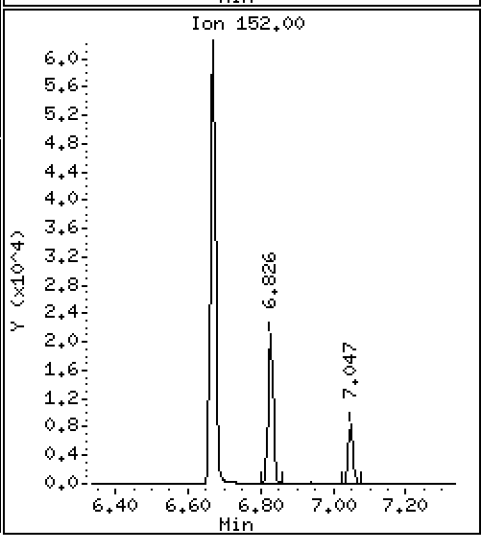












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Date : 15-DEC-2022 17:08

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BSD1,

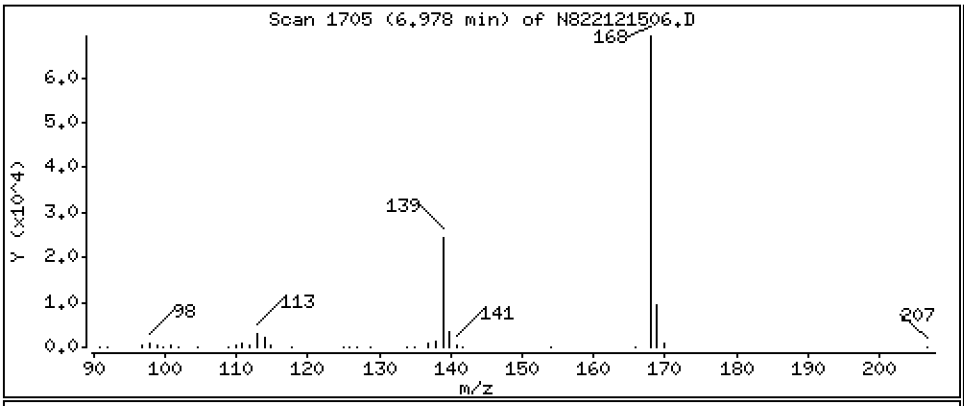
Operator: JZ

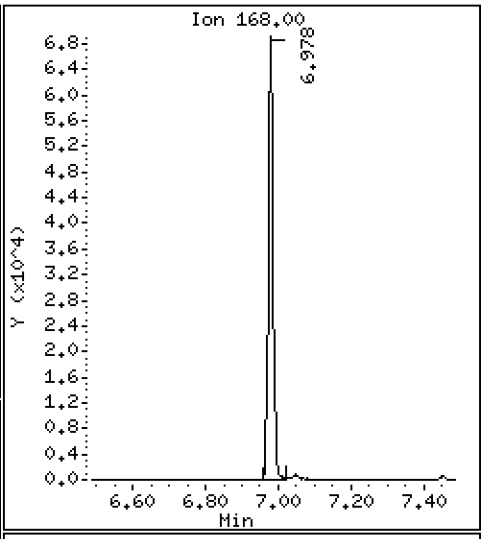
Column phase: Rxi-17sil

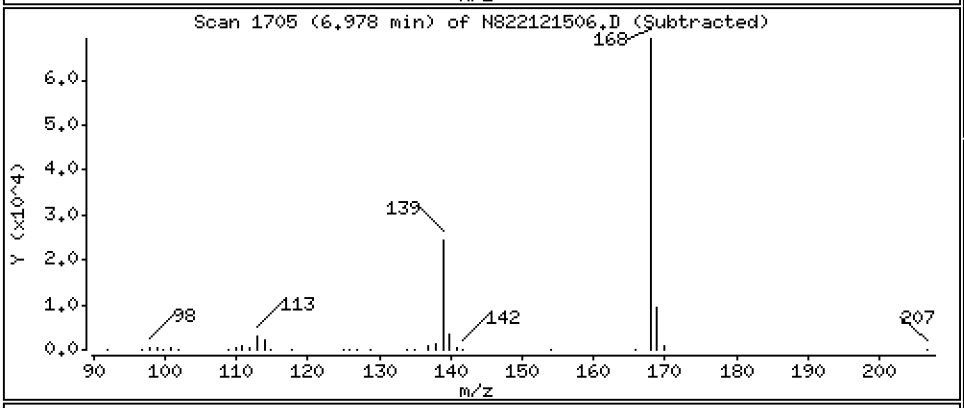
Column diameter: 0.25

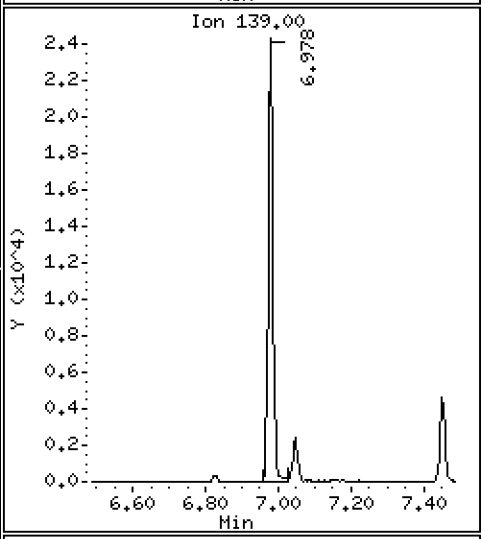
12 Dibenzofuran

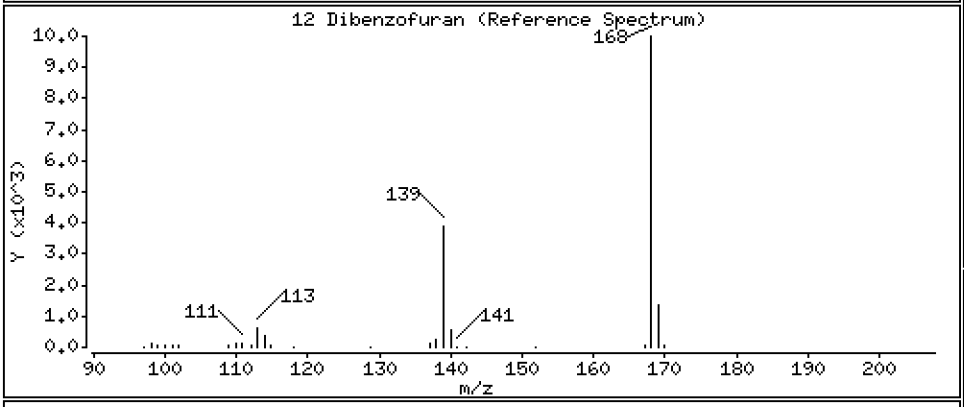
Concentration: 3.030 ug/mL

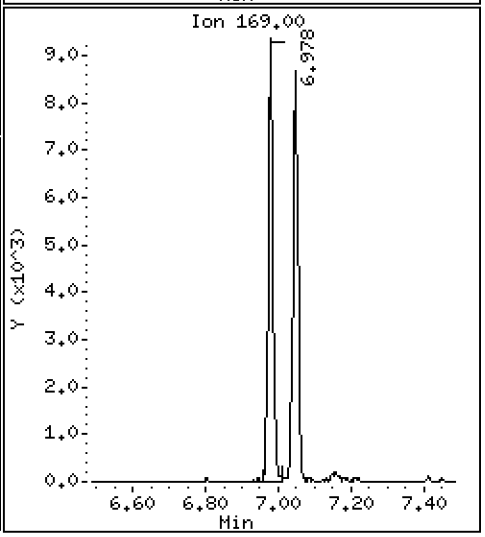


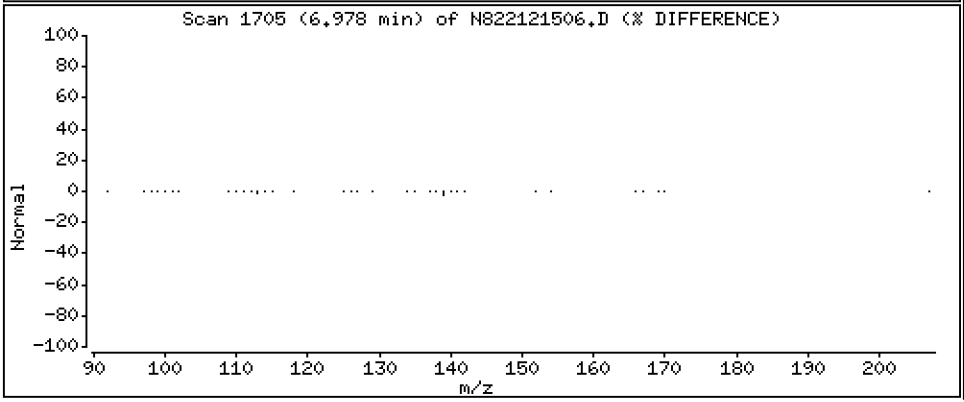












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121506.D

Date : 15-DEC-2022 17:08

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BSD1,

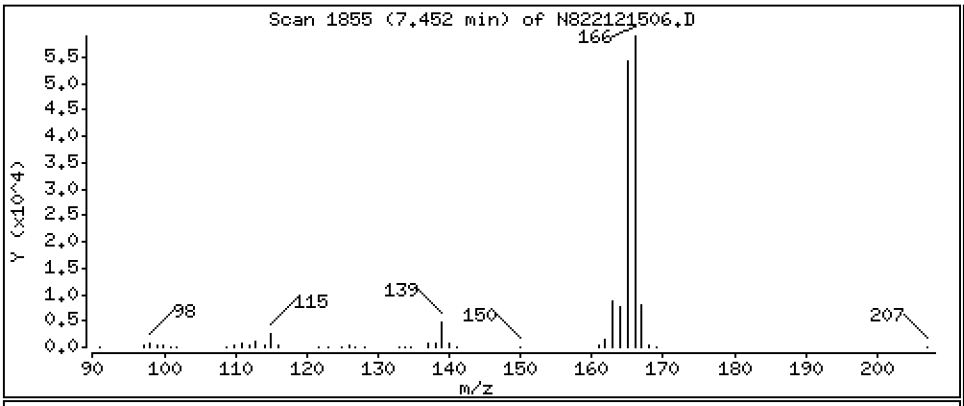
Operator: JZ

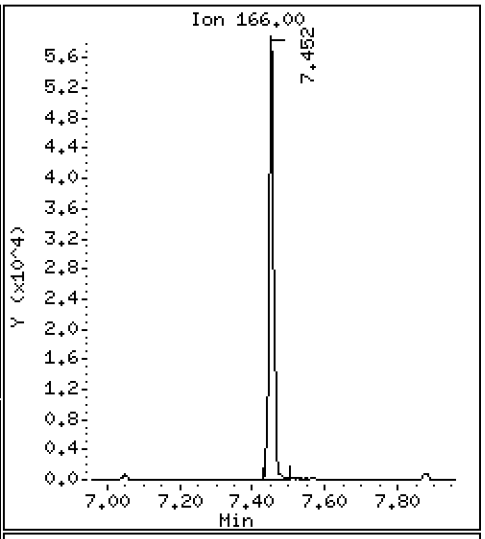
Column phase: Rxi-17sil

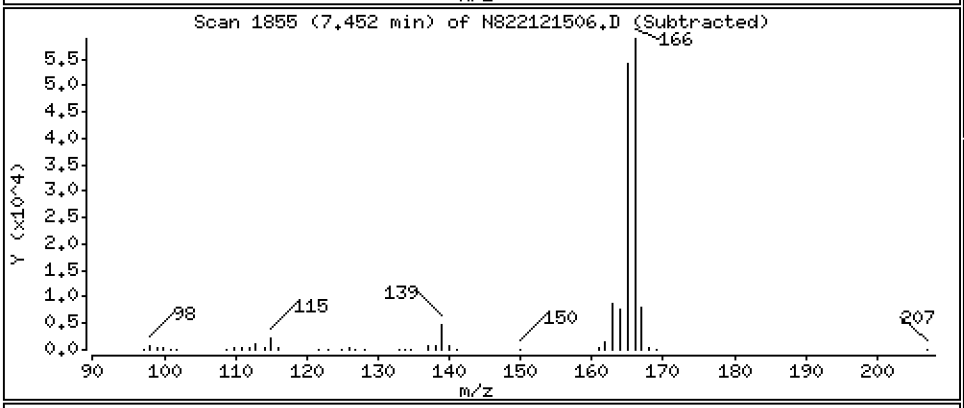
Column diameter: 0.25

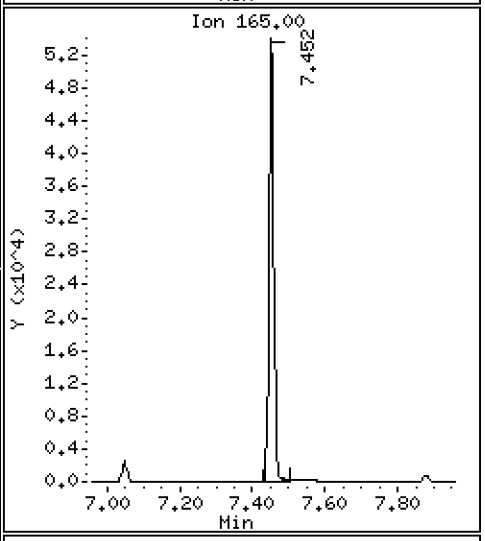
14 Fluorene

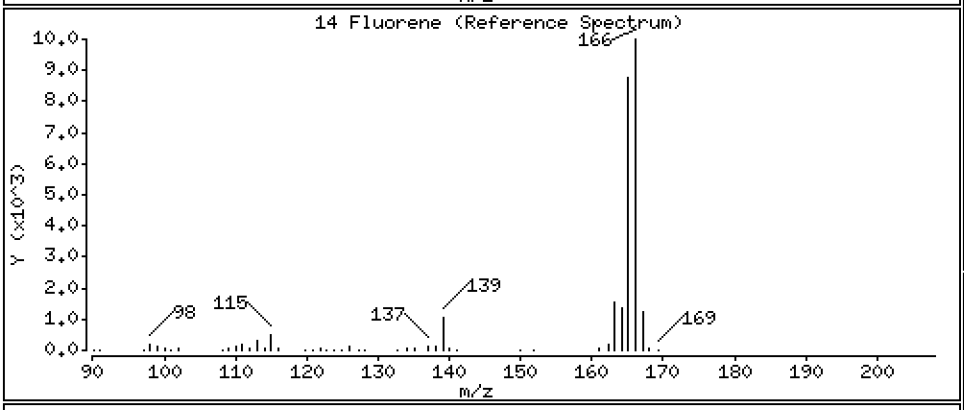
Concentration: 3.125 ug/mL

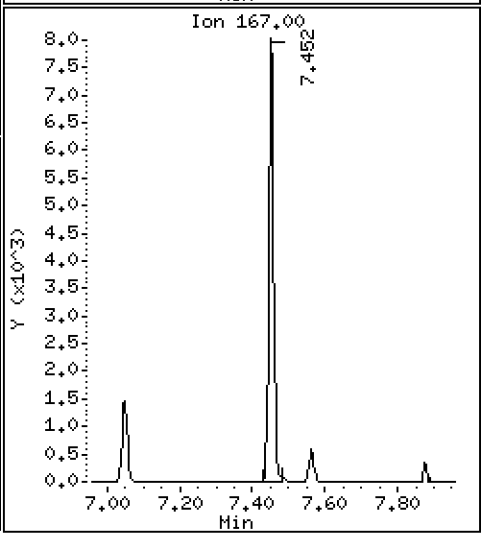


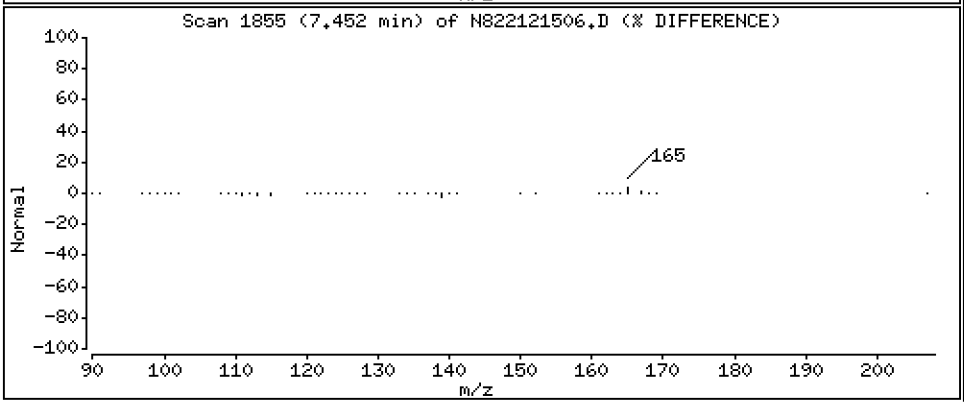












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121506.D

Date : 15-DEC-2022 17:08

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BSD1,

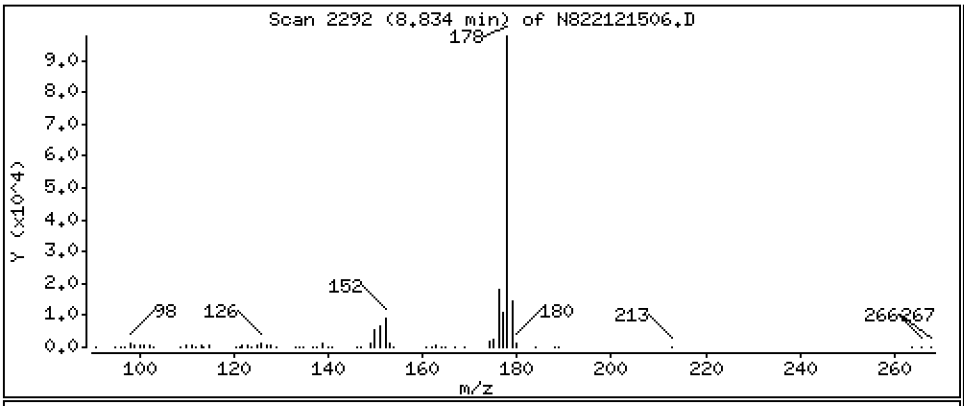
Operator: JZ

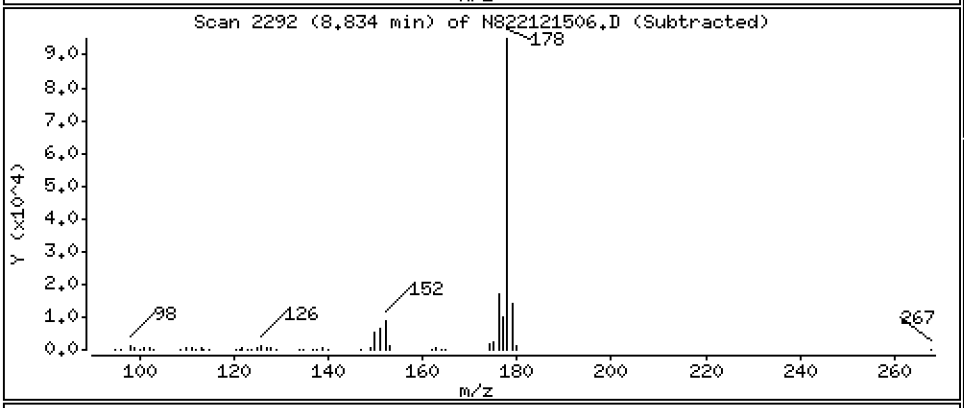
Column phase: Rxi-17sil

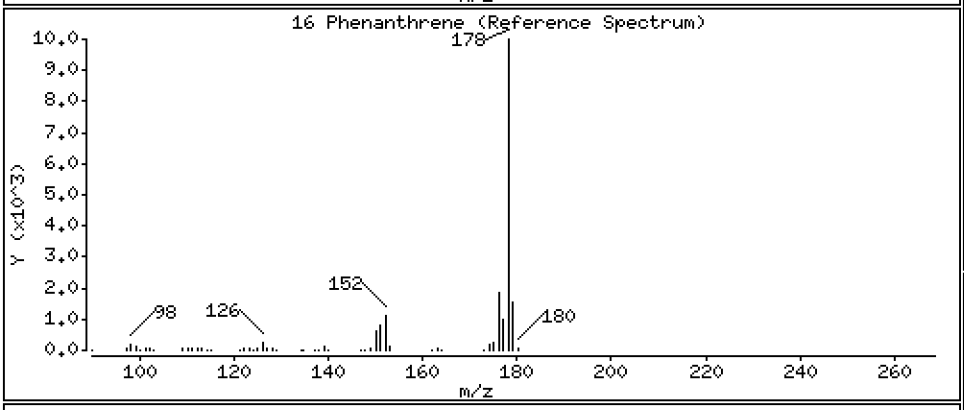
Column diameter: 0.25

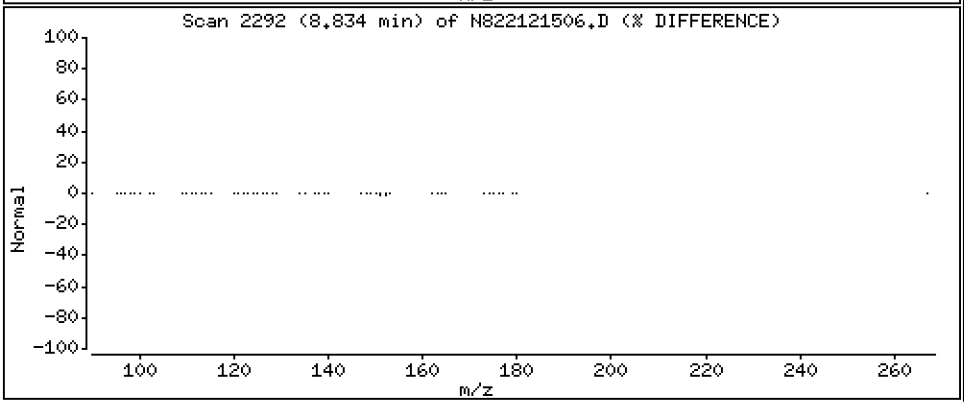
16 Phenanthrene

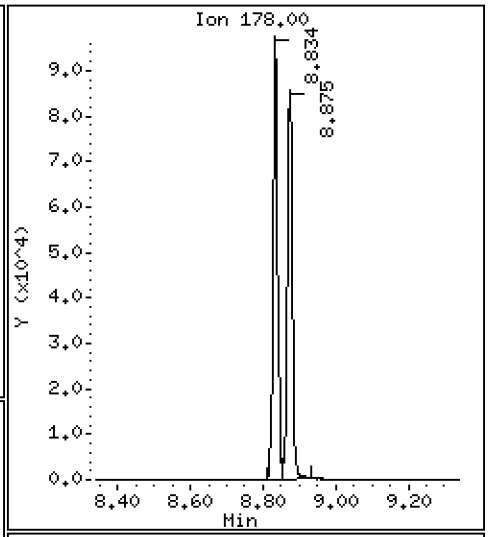
Concentration: 3.228 ug/mL

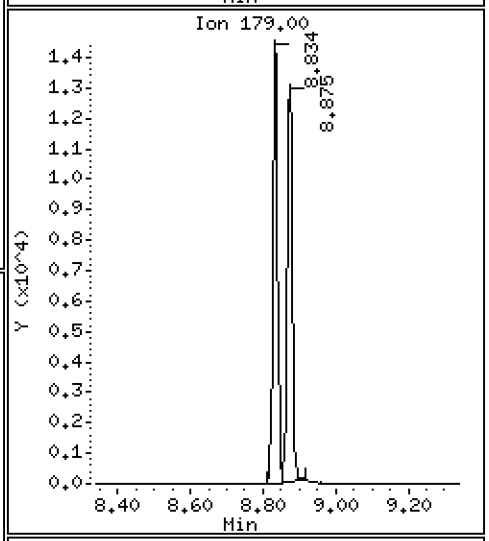


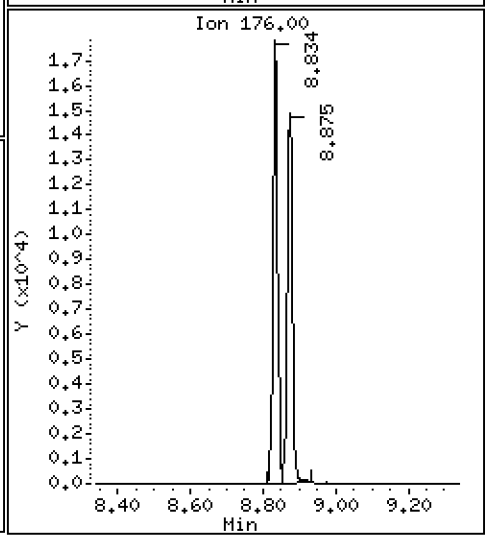












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121506.D

Date : 15-DEC-2022 17:08

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BSD1,

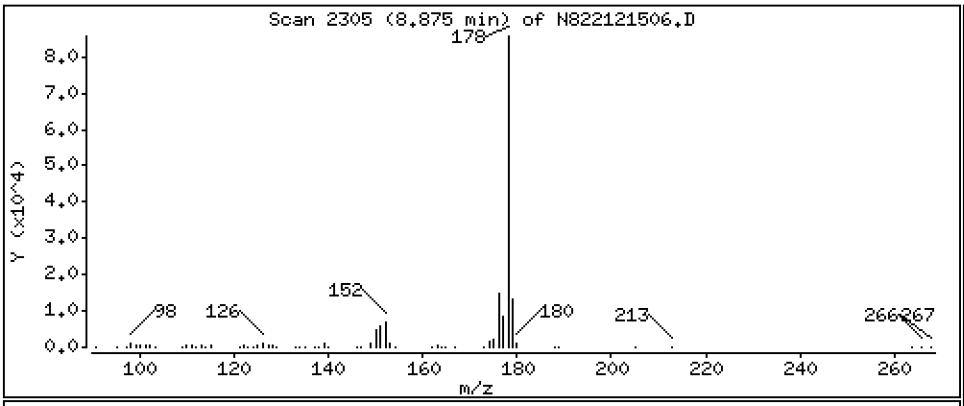
Operator: JZ

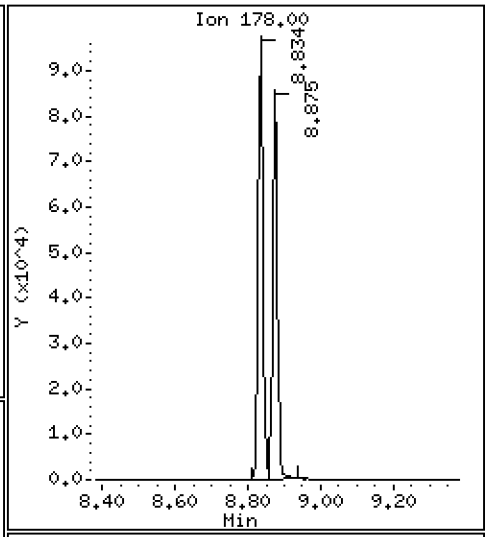
Column phase: Rxi-17sil

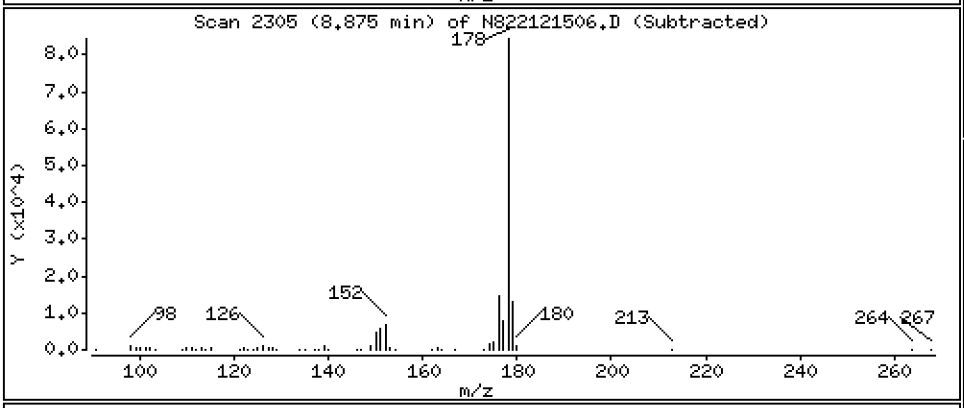
Column diameter: 0.25

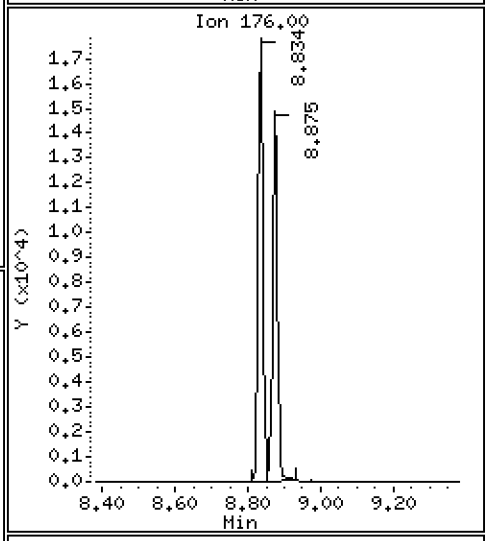
17 Anthracene

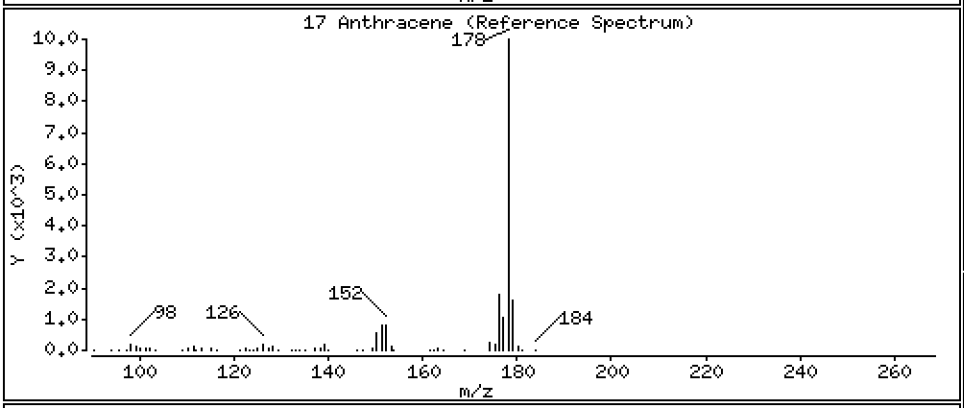
Concentration: 3.085 ug/mL

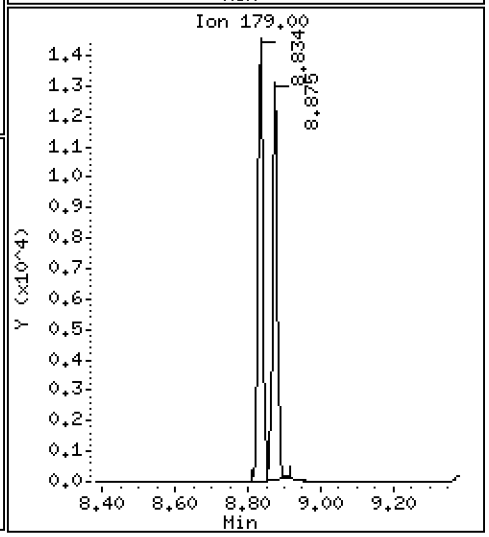


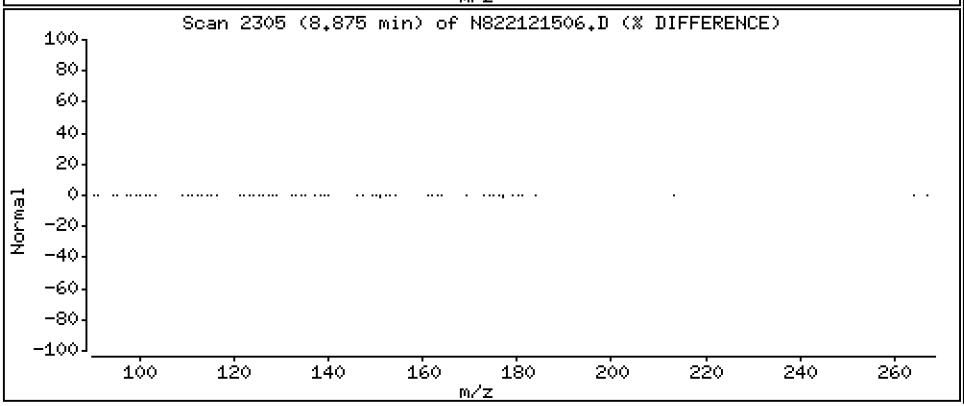












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121506.D

Date : 15-DEC-2022 17:08

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BSD1,

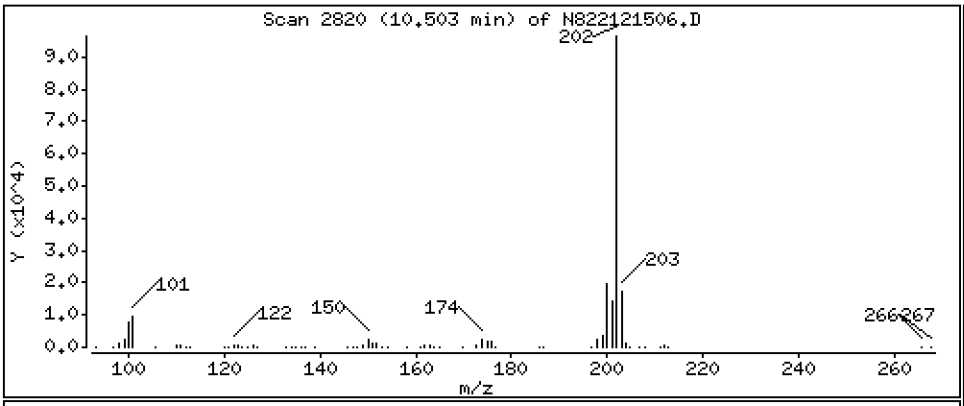
Operator: JZ

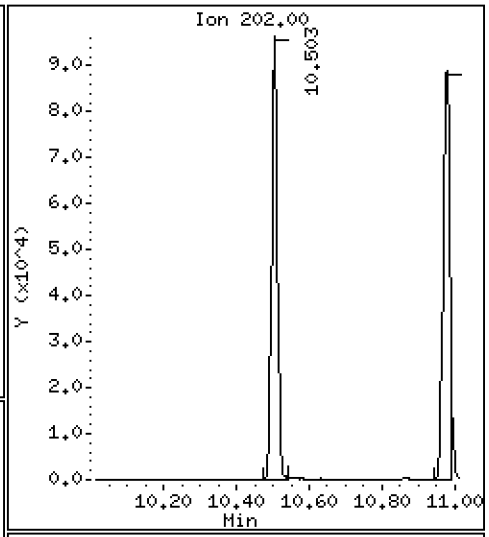
Column phase: Rxi-17sil

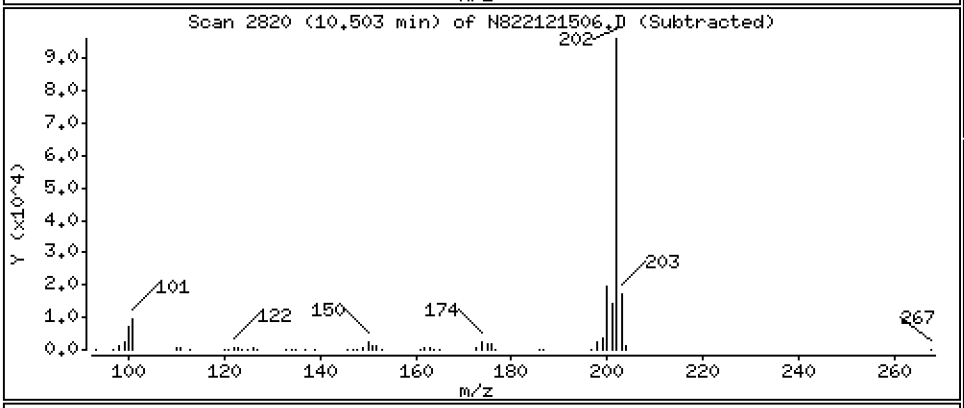
Column diameter: 0.25

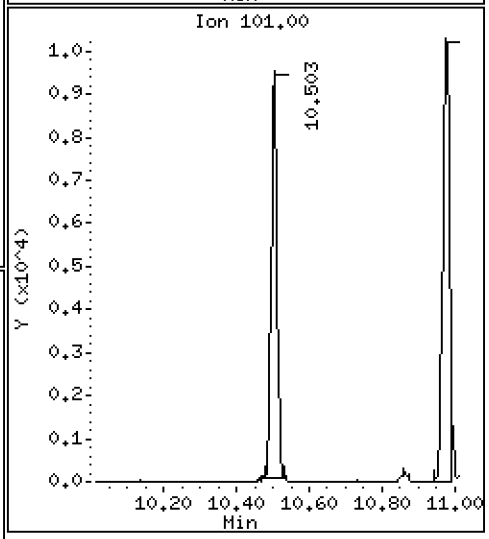
22 Fluoranthene

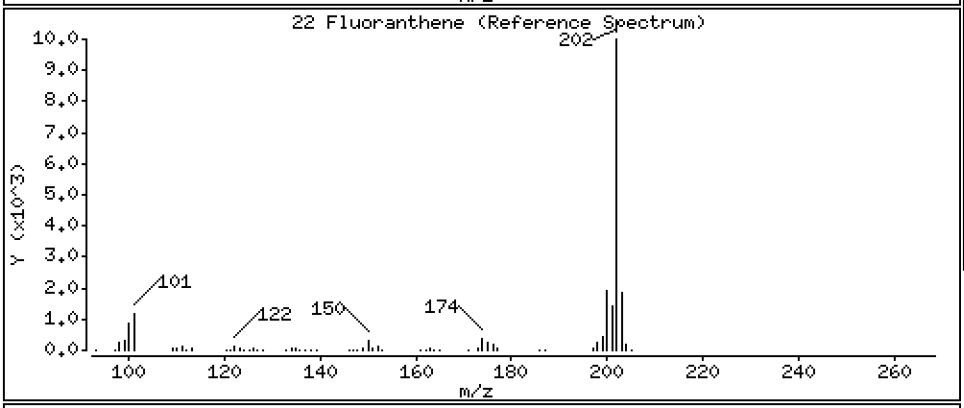
Concentration: 3.666 ug/mL

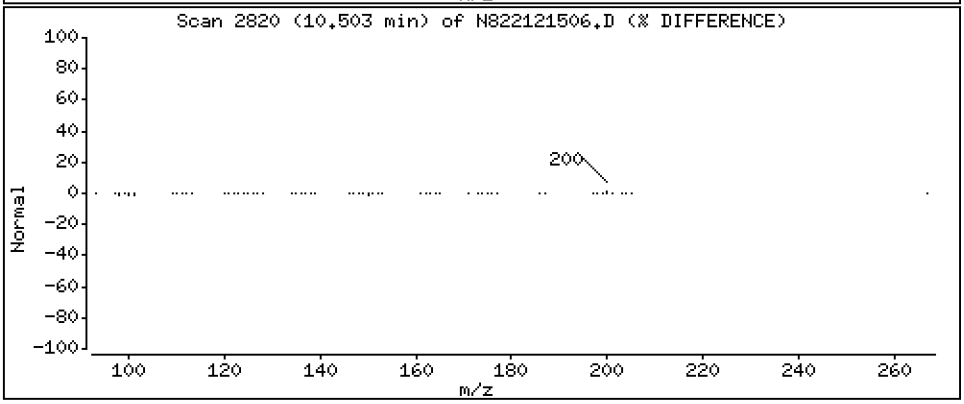












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121506.D

Date : 15-DEC-2022 17:08

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BSD1,

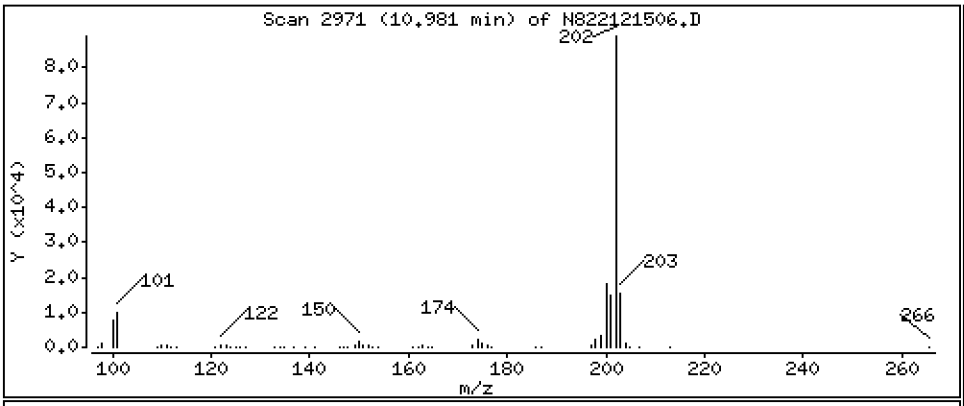
Operator: JZ

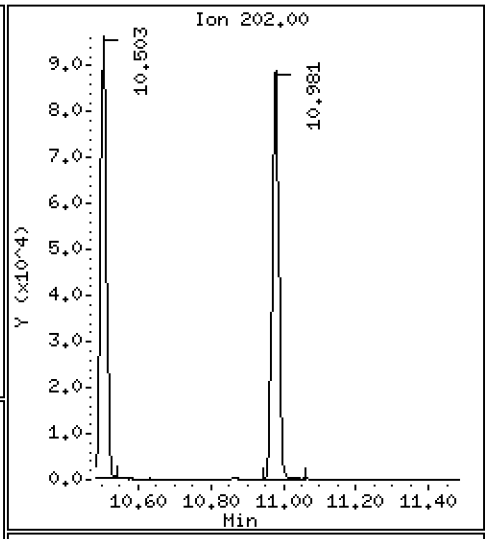
Column phase: Rxi-17sil

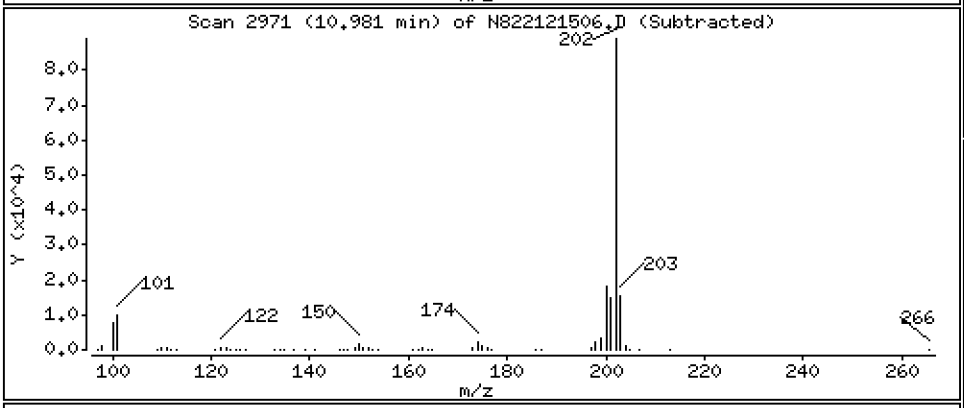
Column diameter: 0.25

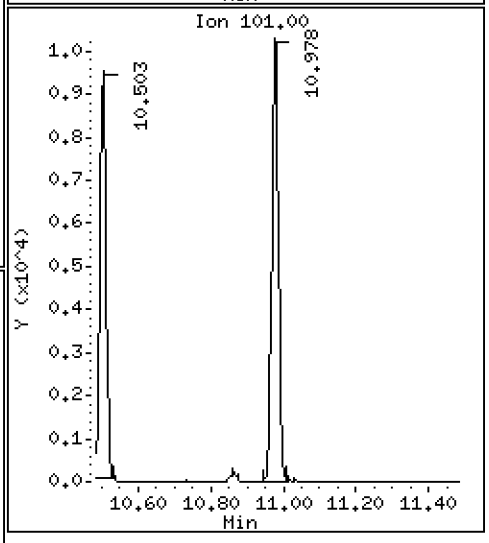
23 Pyrene

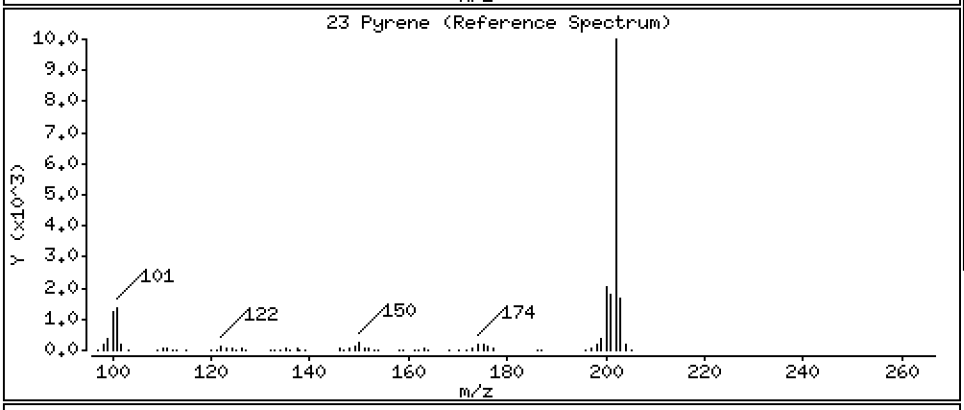
Concentration: 3.388 ug/mL

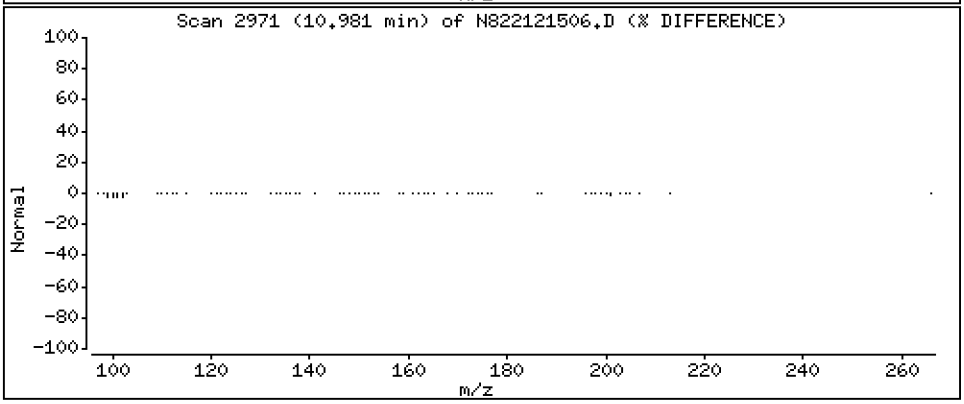












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121506.D

Date : 15-DEC-2022 17:08

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BSD1,

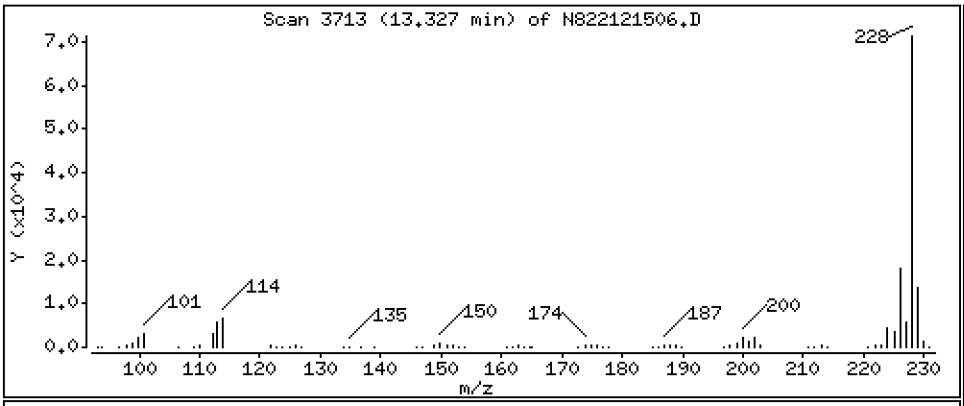
Operator: JZ

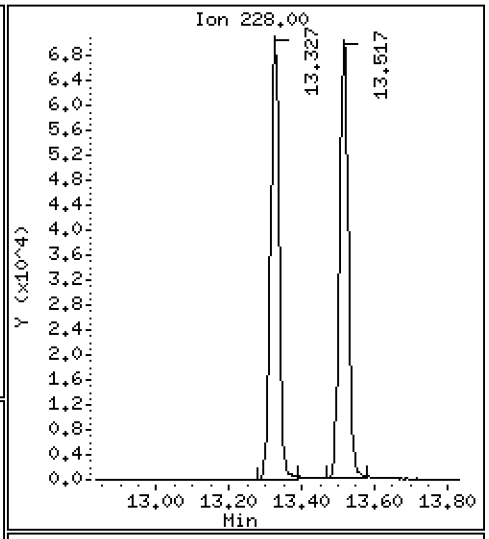
Column phase: Rxi-17sil

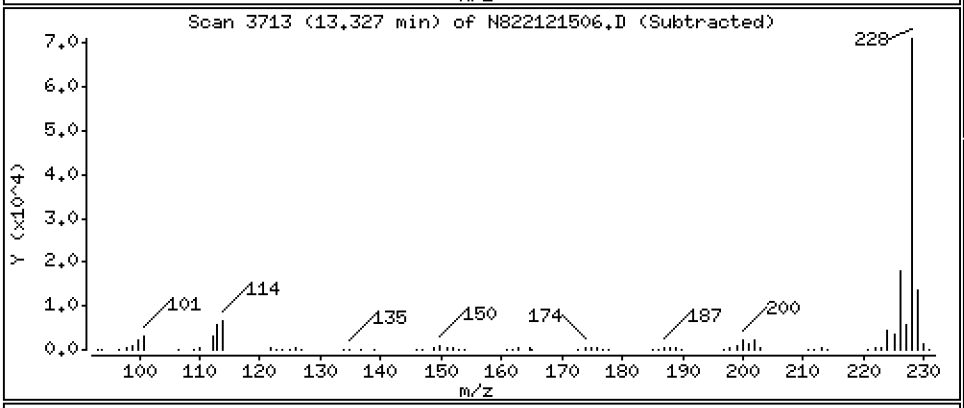
Column diameter: 0.25

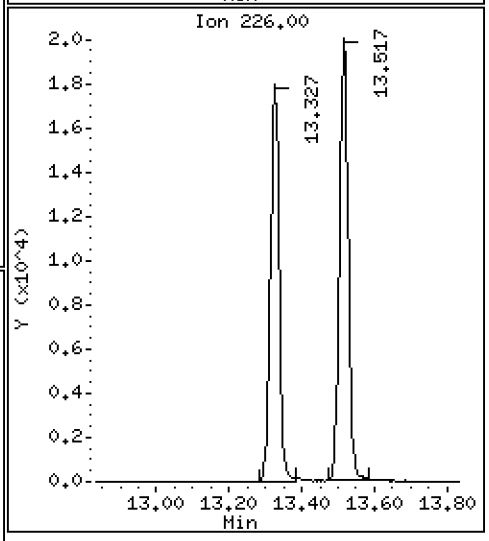
24 Benzo(a)anthracene

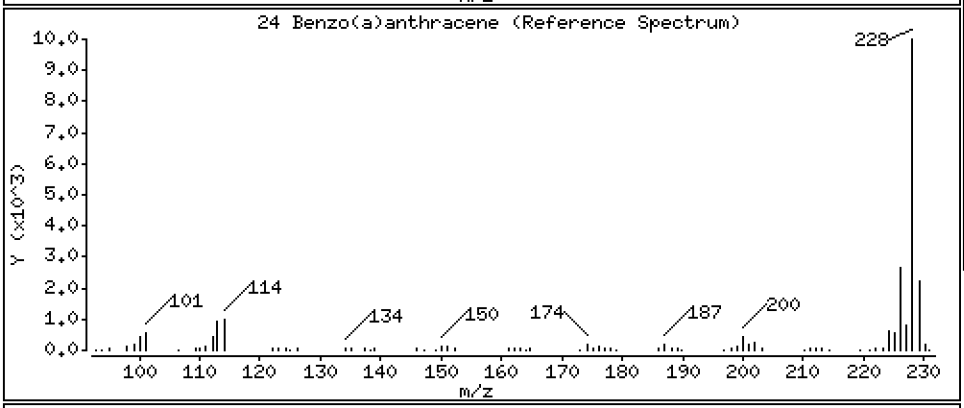
Concentration: 3.674 ug/mL

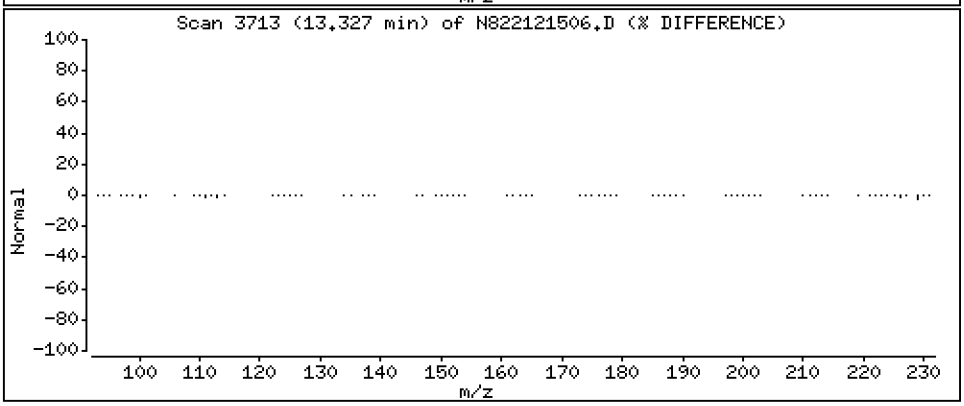












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121506.D

Date : 15-DEC-2022 17:08

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BSD1,

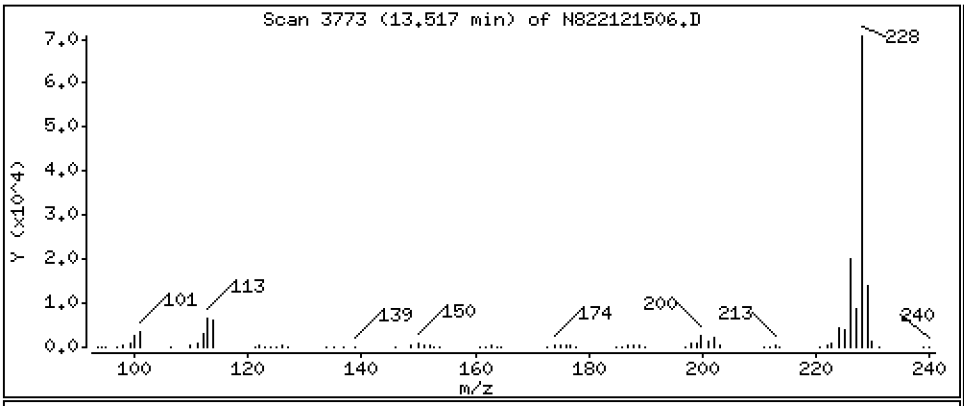
Operator: JZ

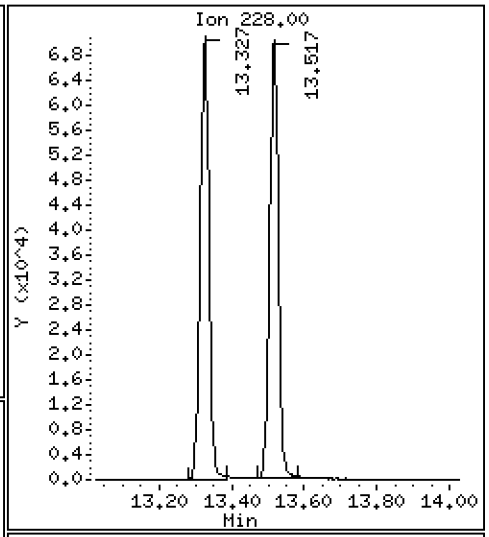
Column phase: Rxi-17sil

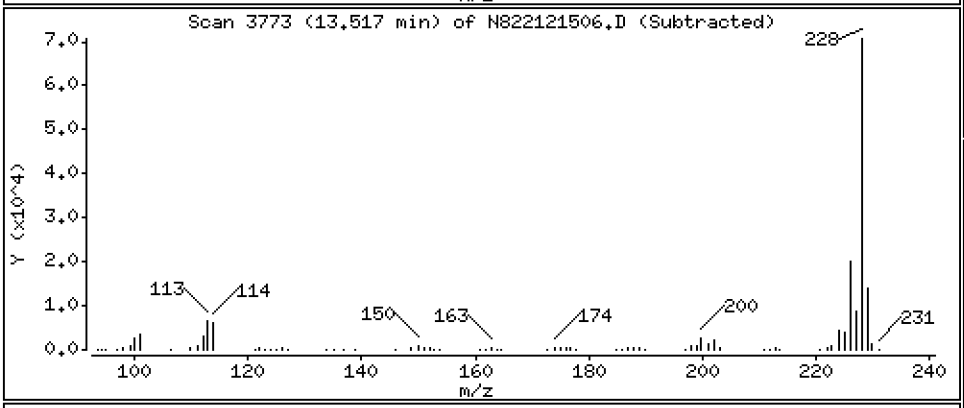
Column diameter: 0.25

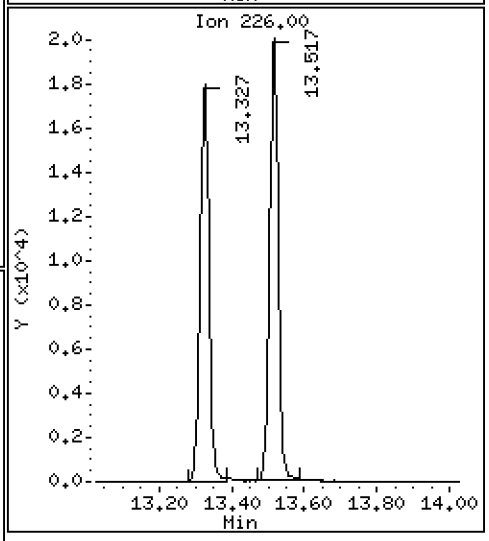
27 Chrysene

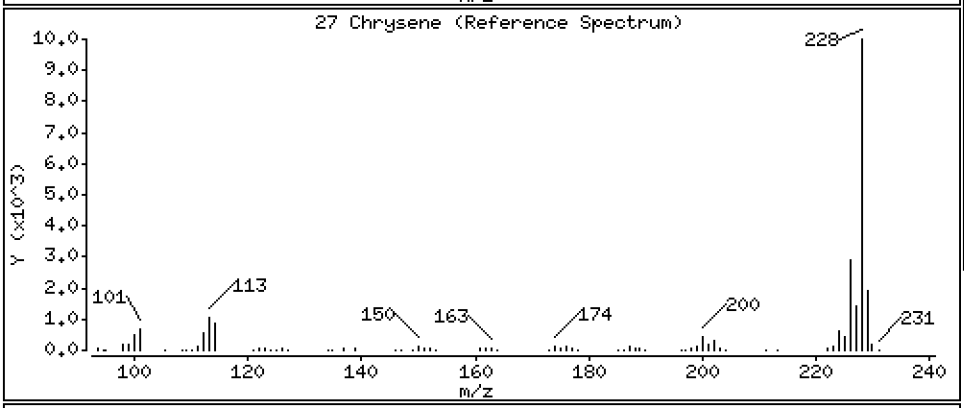
Concentration: 3.810 ug/mL

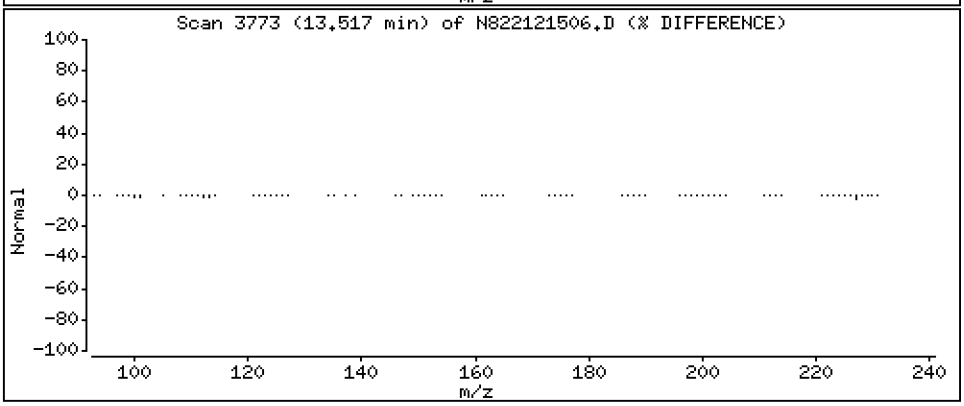












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121506.D

Date : 15-DEC-2022 17:08

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BSD1,

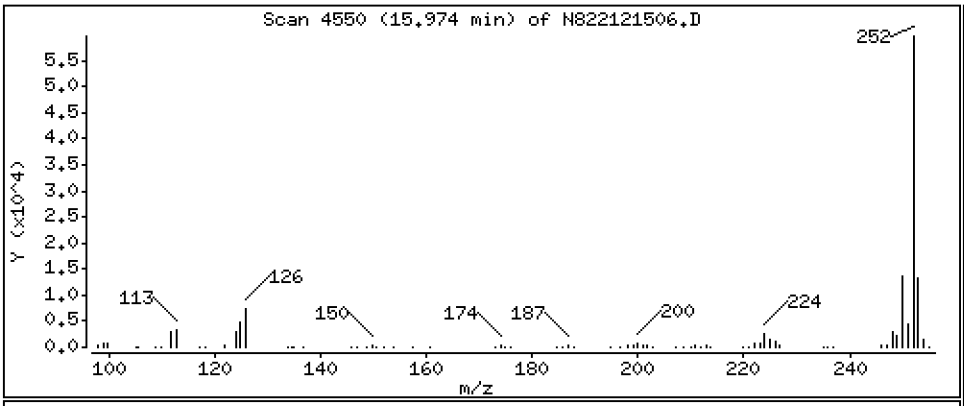
Operator: JZ

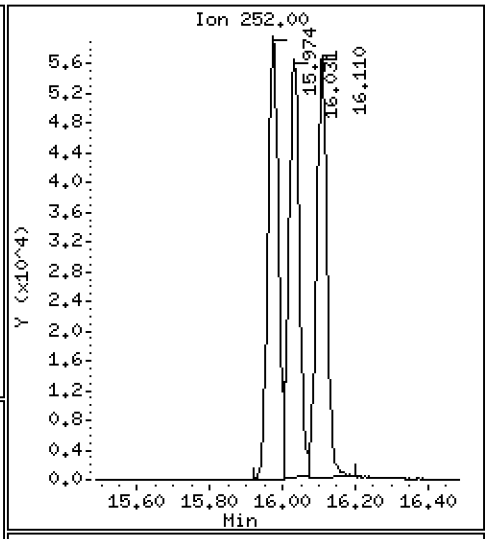
Column phase: Rxi-17sil

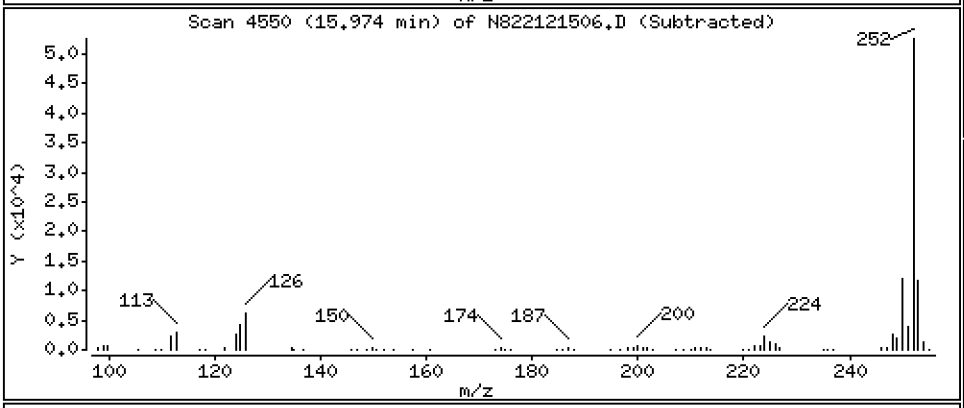
Column diameter: 0.25

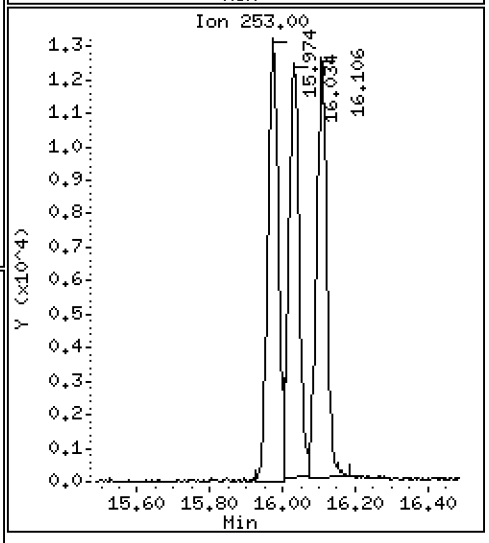
28 Benzo(b)fluoranthene

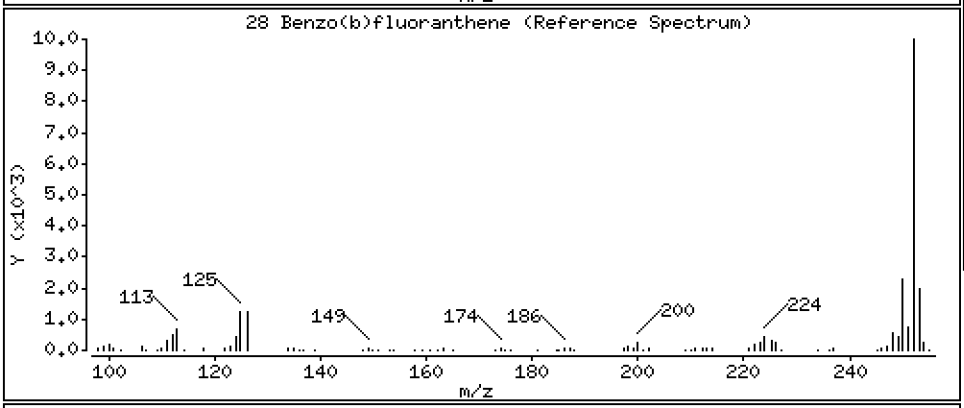
Concentration: 3.877 ug/mL

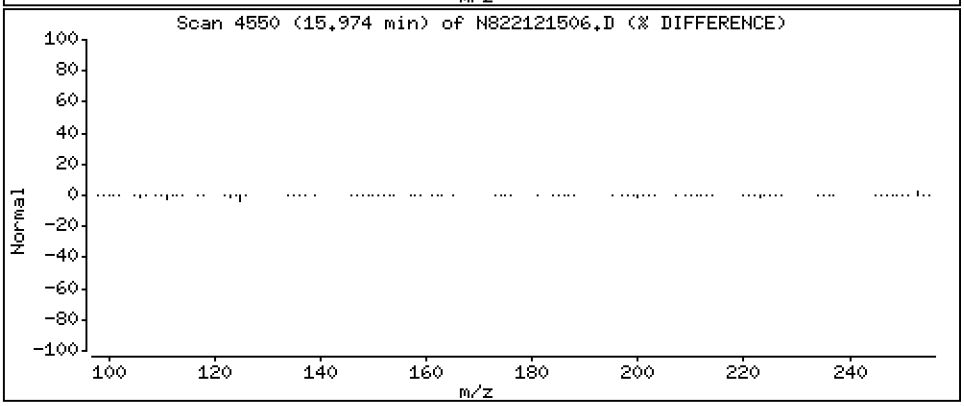












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121506.D

Date : 15-DEC-2022 17:08

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BSD1,

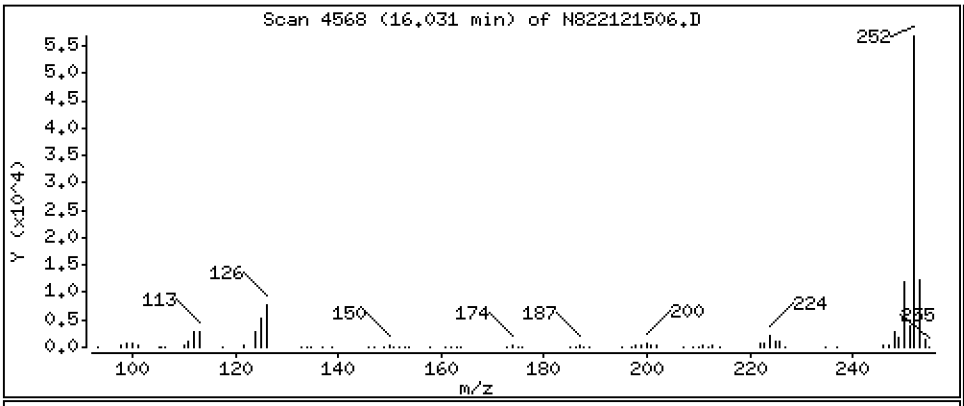
Operator: JZ

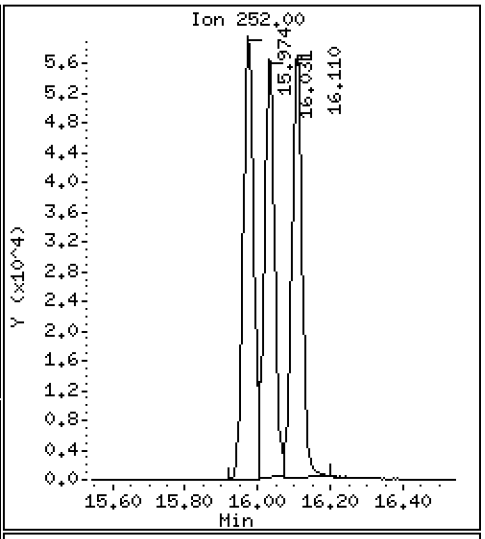
Column phase: Rxi-17sil

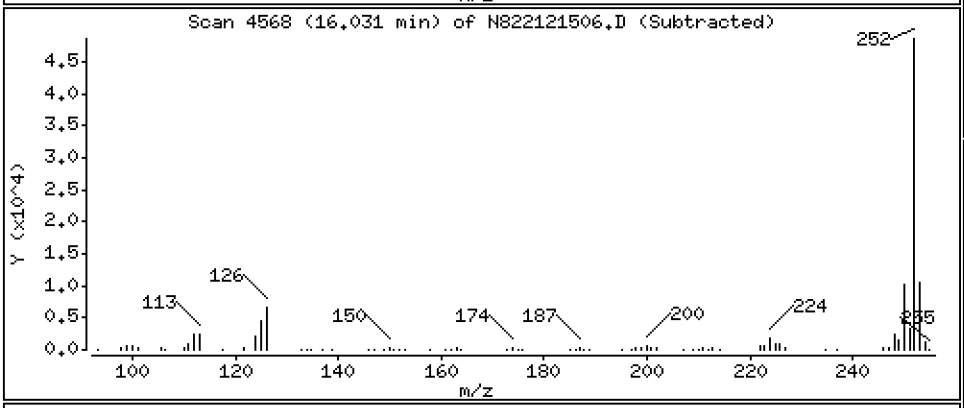
Column diameter: 0.25

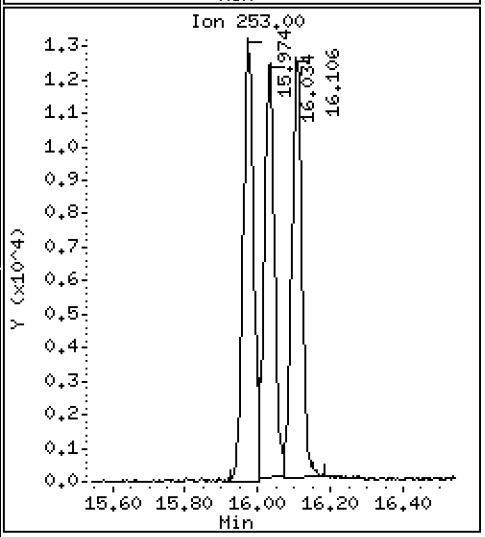
29 Benzo(k)fluoranthene

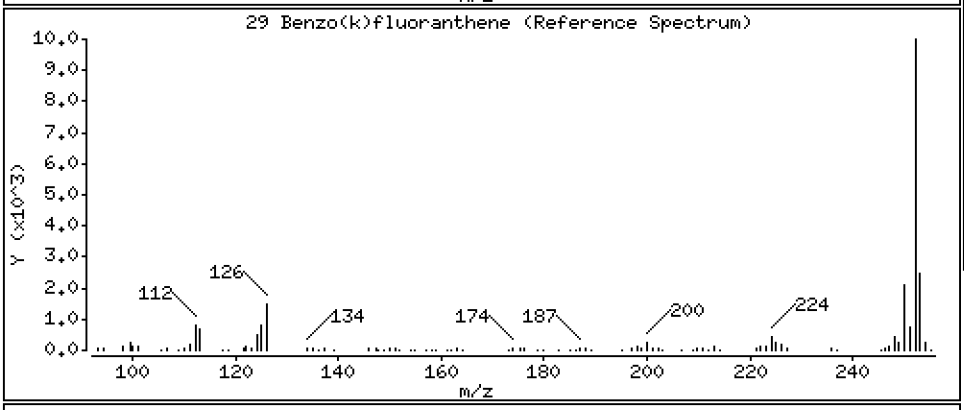
Concentration: 3.877 ug/mL

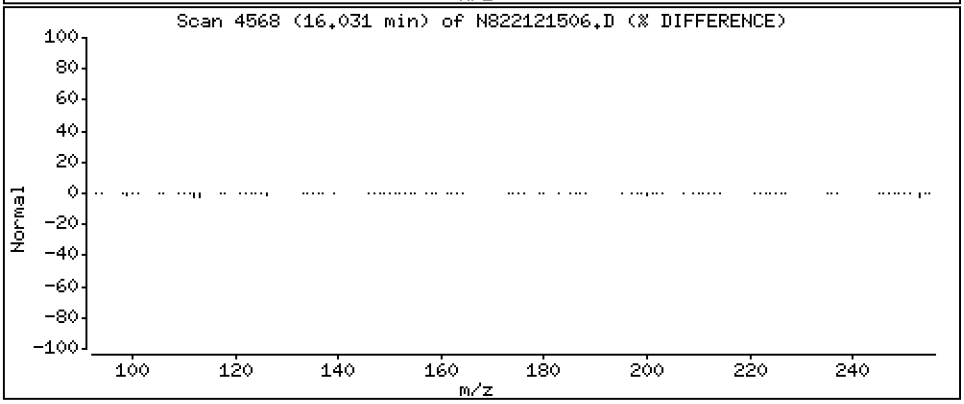












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121506.D

Date : 15-DEC-2022 17:08

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BSD1,

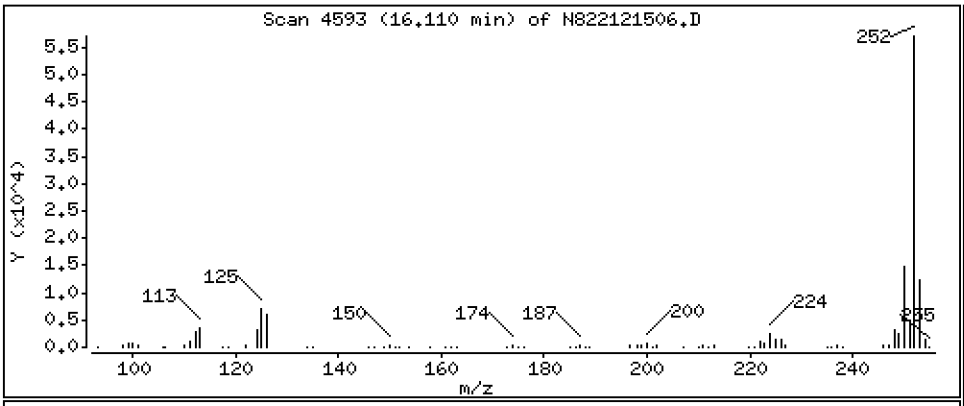
Operator: JZ

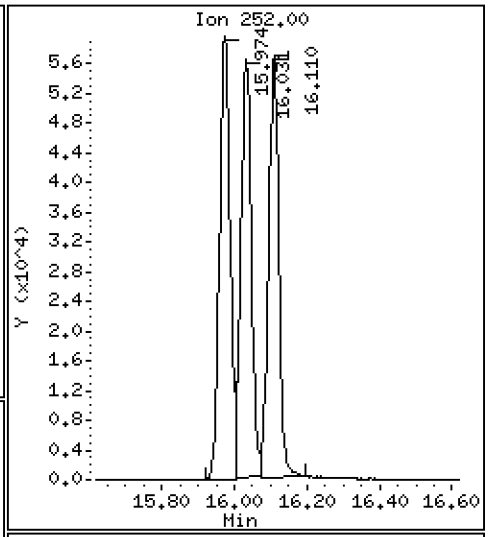
Column phase: Rxi-17sil

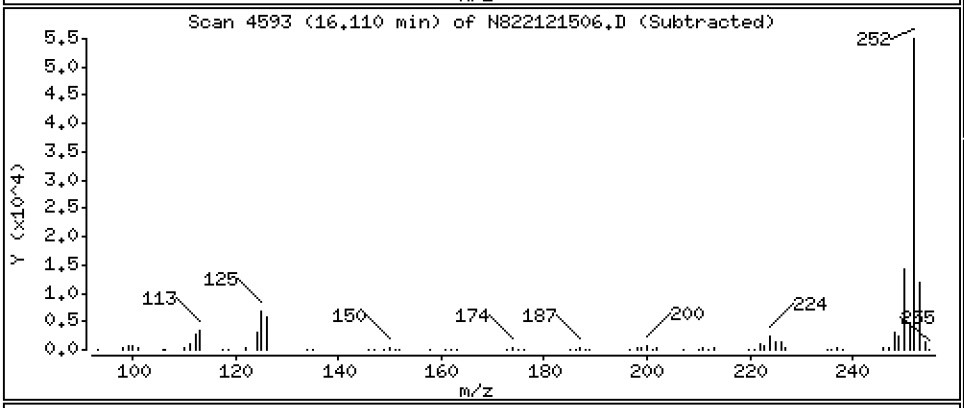
Column diameter: 0.25

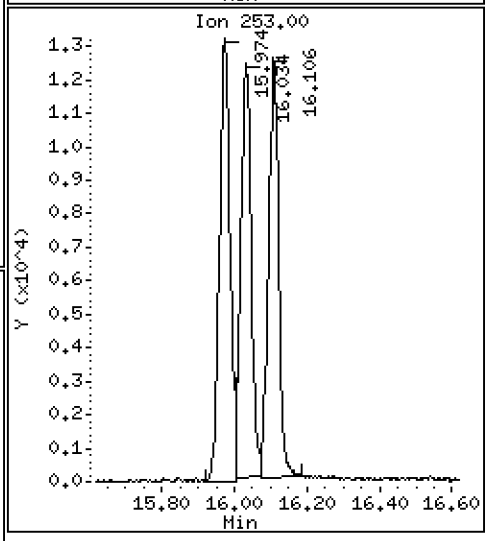
30 Benzo(j)fluoranthene

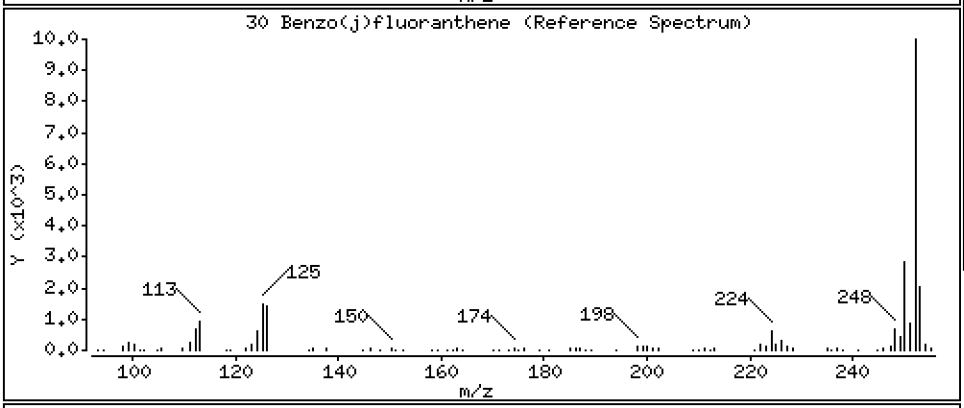
Concentration: 4.203 ug/mL

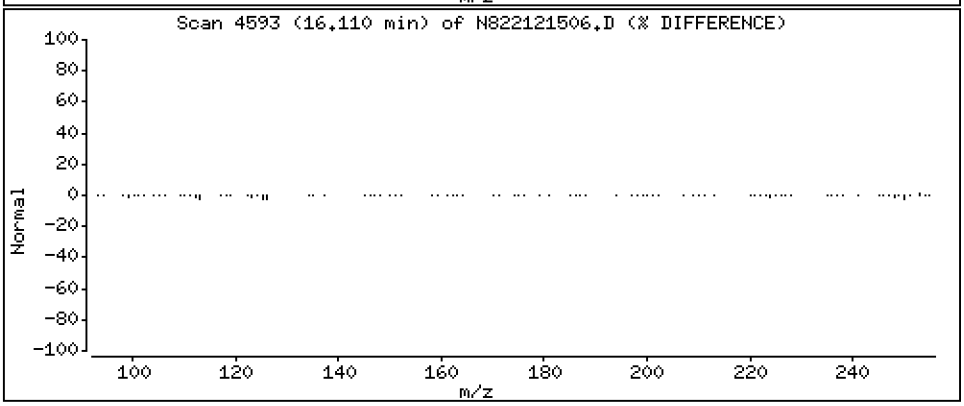












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121506.D

Date : 15-DEC-2022 17:08

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BSD1,

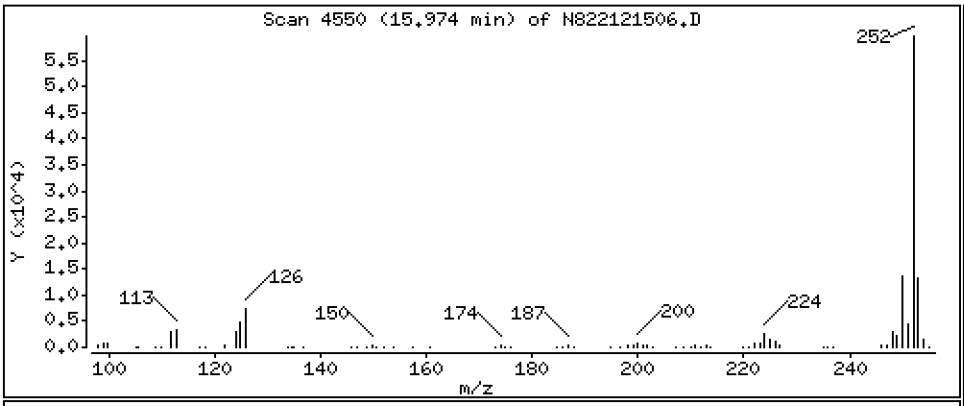
Operator: JZ

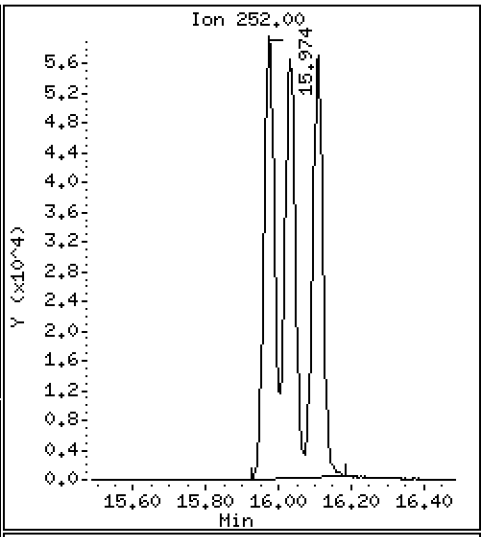
Column phase: Rxi-17sil

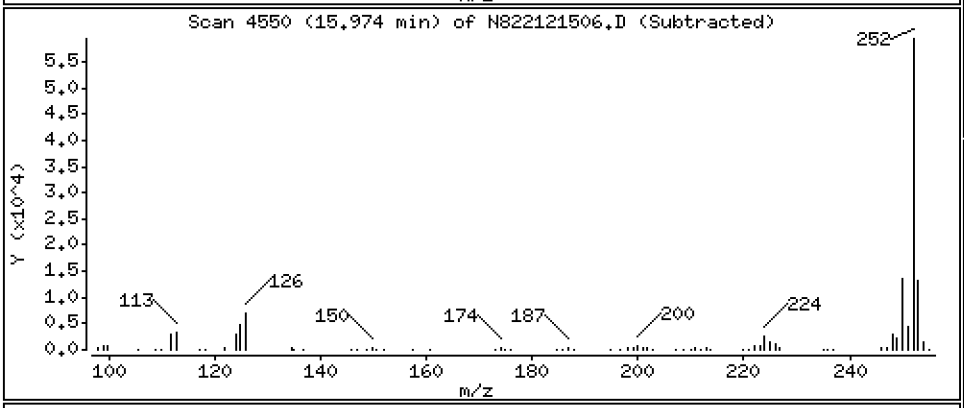
Column diameter: 0.25

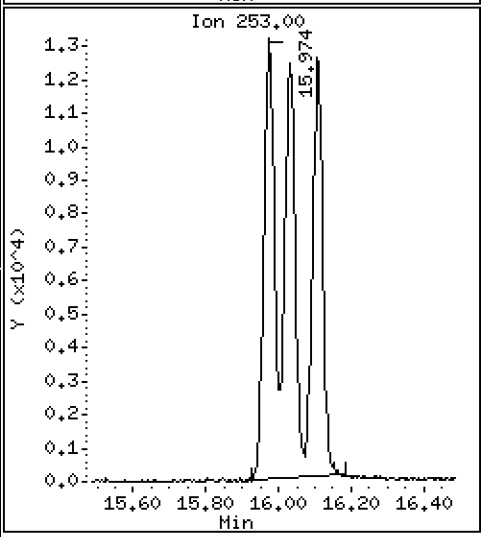
31 Total Benzofluoranthenes

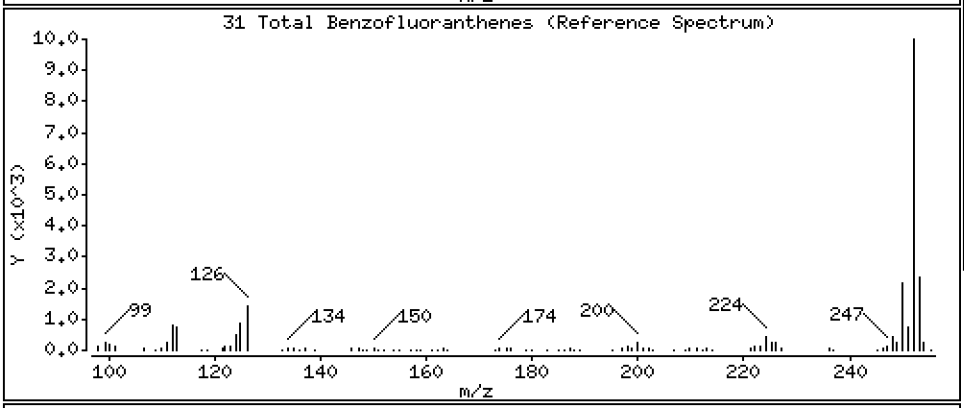
Concentration: 11.85 ug/mL

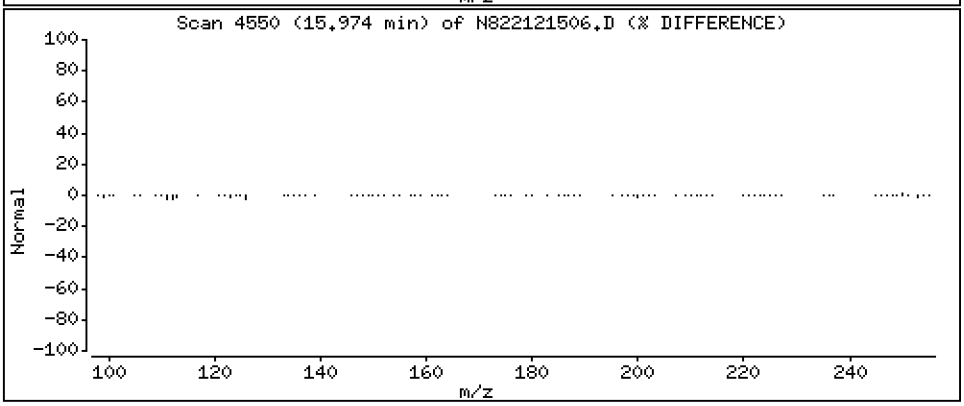












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121506.D

Date : 15-DEC-2022 17:08

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BSD1,

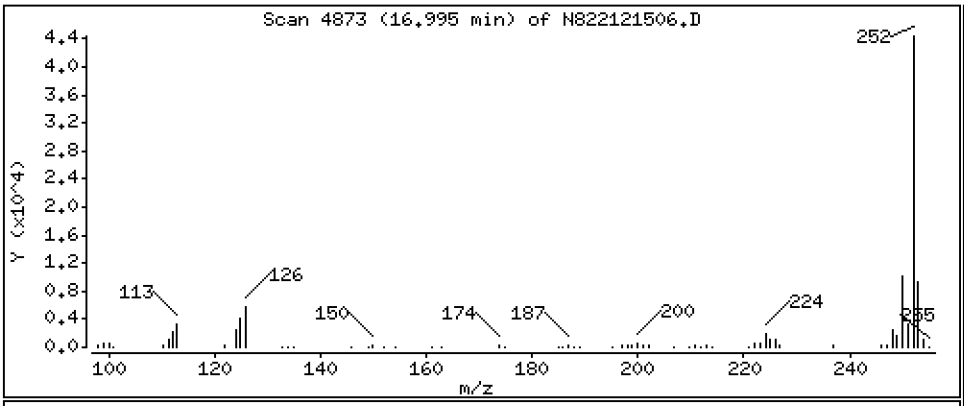
Operator: JZ

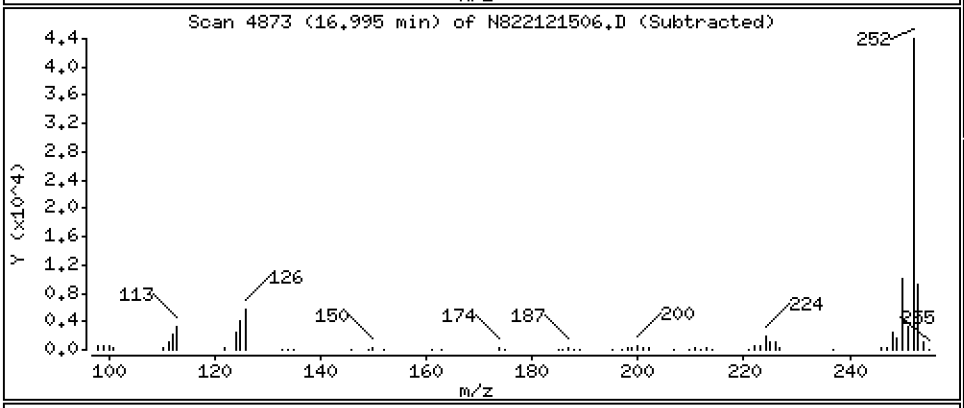
Column phase: Rxi-17sil

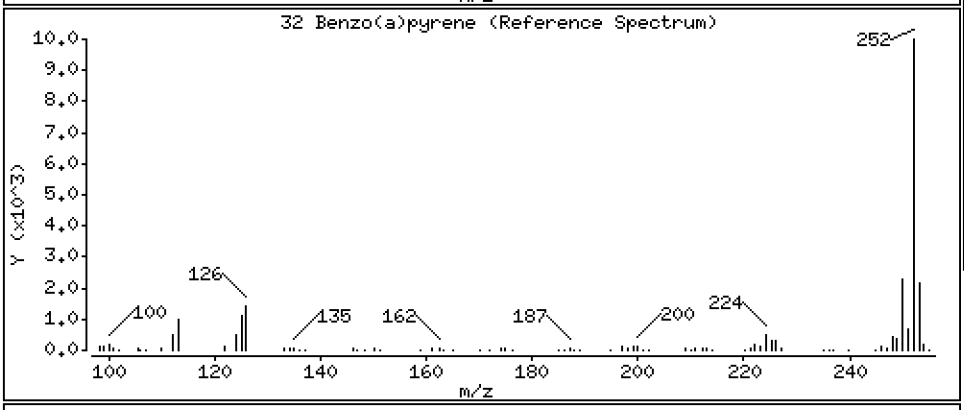
Column diameter: 0.25

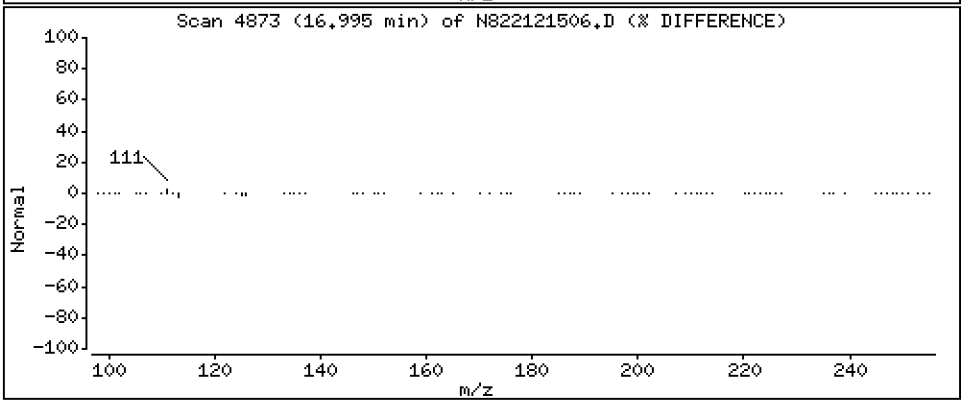
32 Benzo(a)pyrene

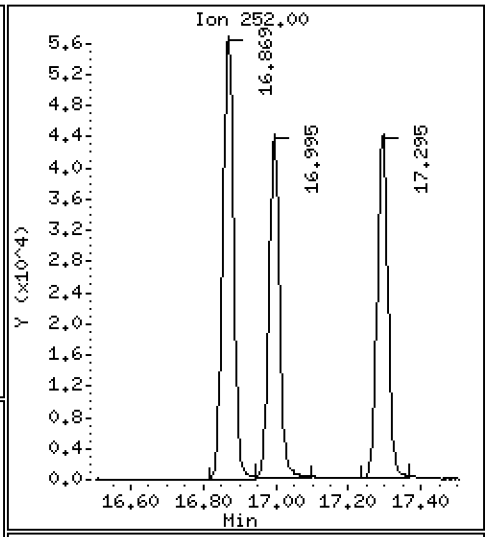
Concentration: 3.442 ug/mL

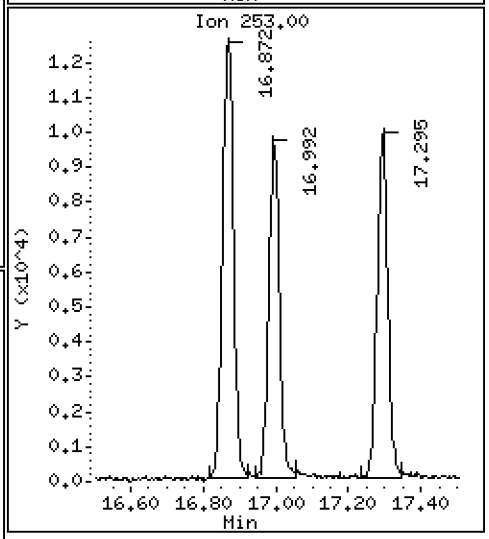












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121506.D

Date : 15-DEC-2022 17:08

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BSD1,

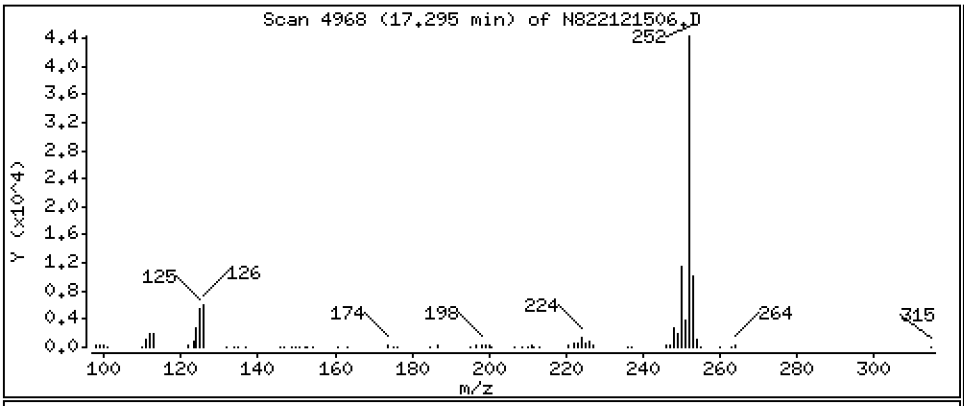
Operator: JZ

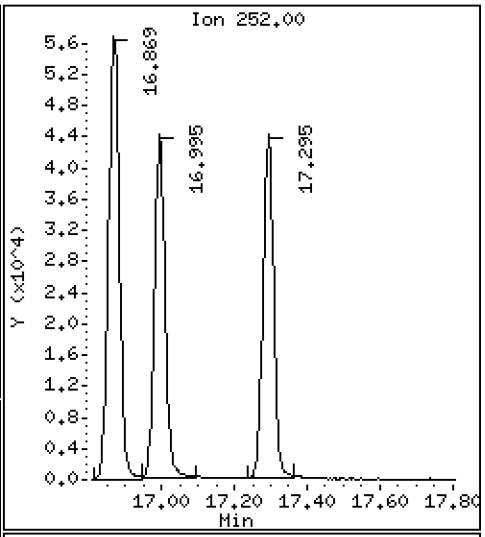
Column phase: Rxi-17sil

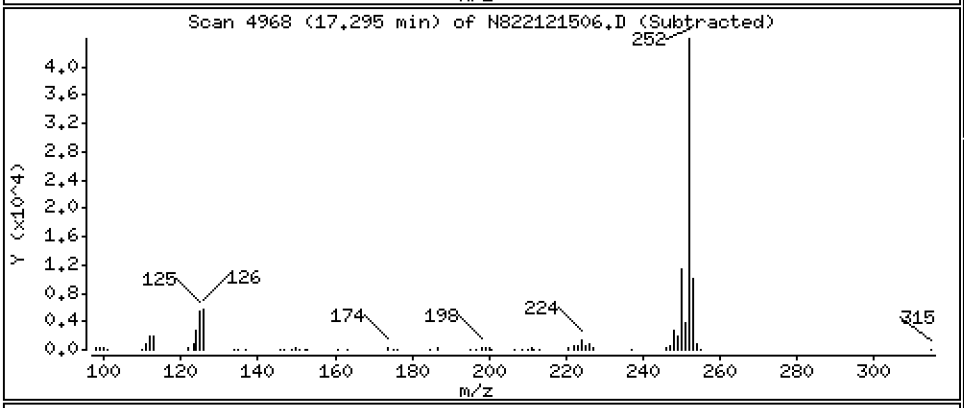
Column diameter: 0.25

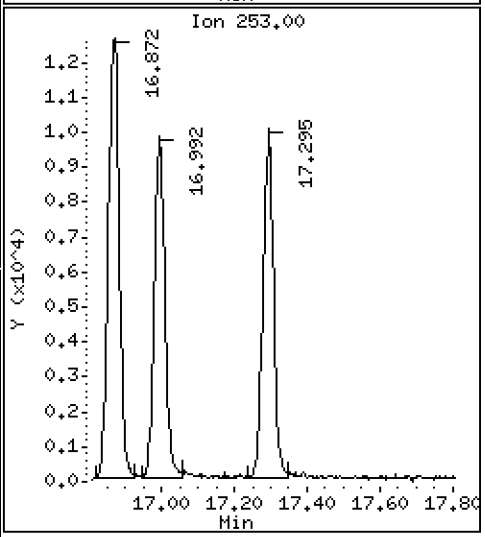
35 Perylene

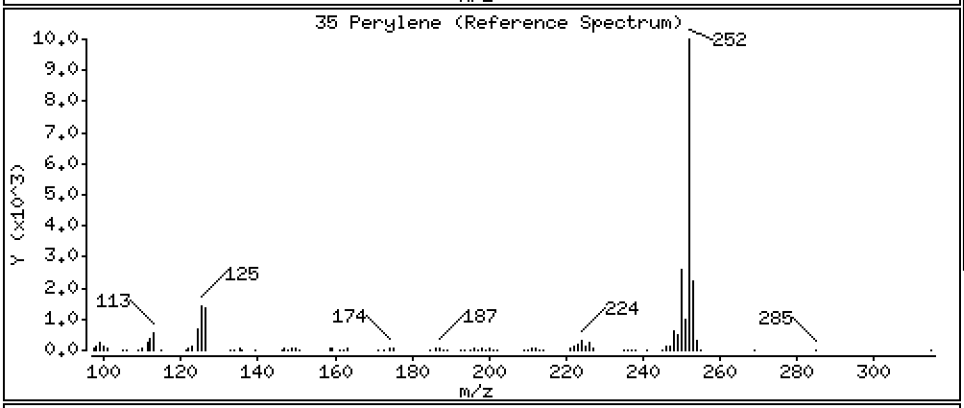
Concentration: 3.480 ug/mL

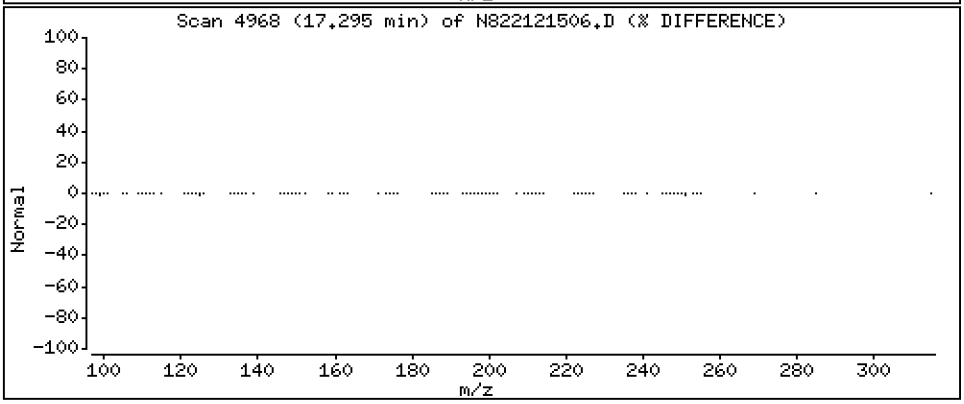












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121506.D

Date : 15-DEC-2022 17:08

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BSD1,

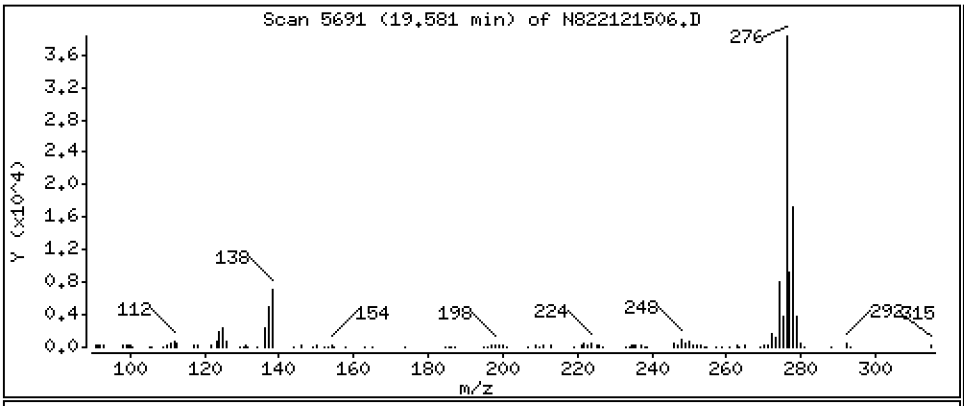
Operator: JZ

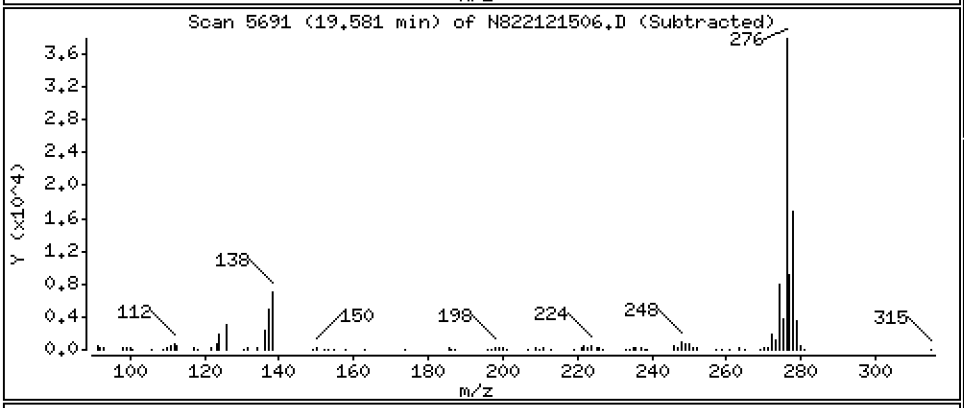
Column phase: Rxi-17sil

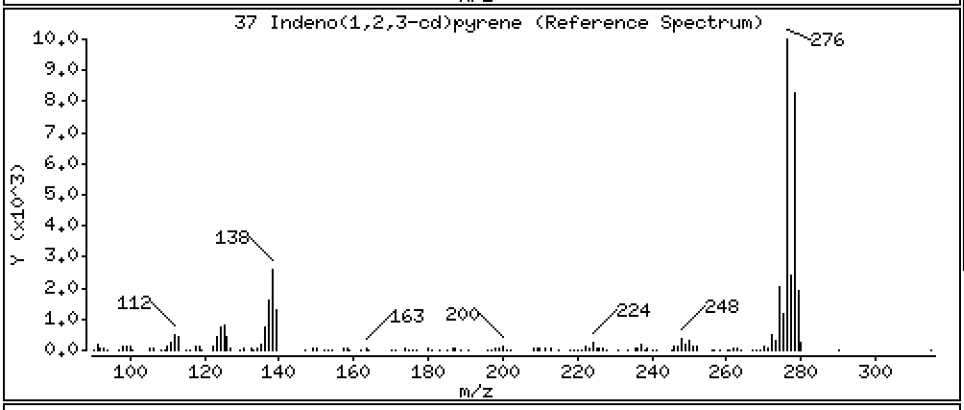
Column diameter: 0.25

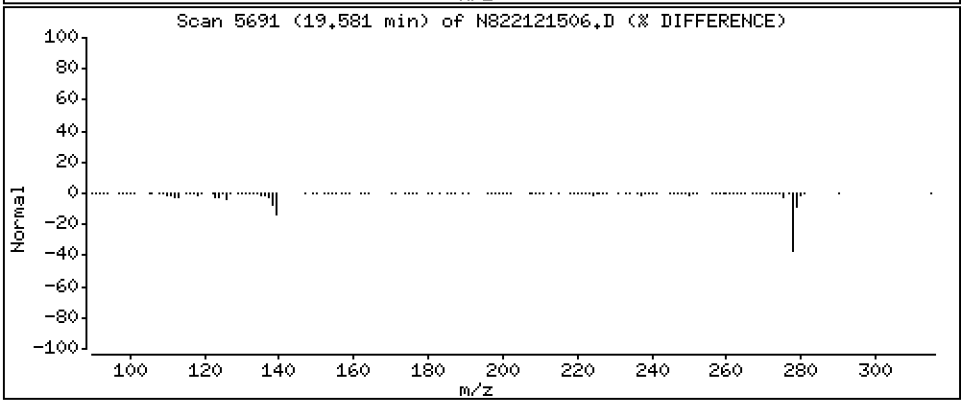
37 Indeno(1,2,3-cd)pyrene

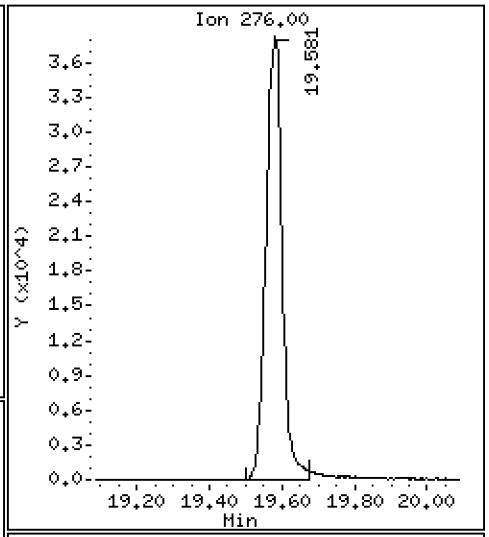
Concentration: 4.702 ug/mL

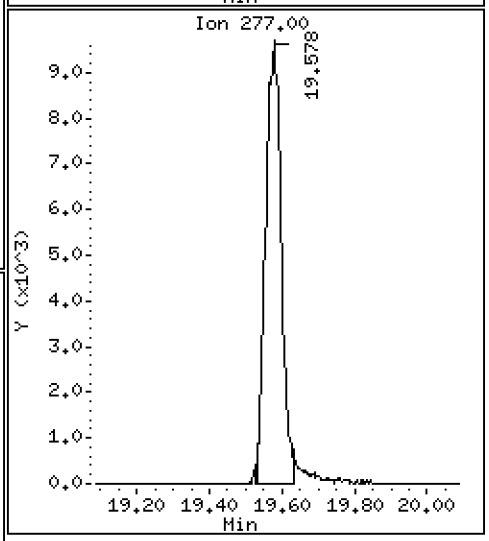












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121506.D

Date : 15-DEC-2022 17:08

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BSD1,

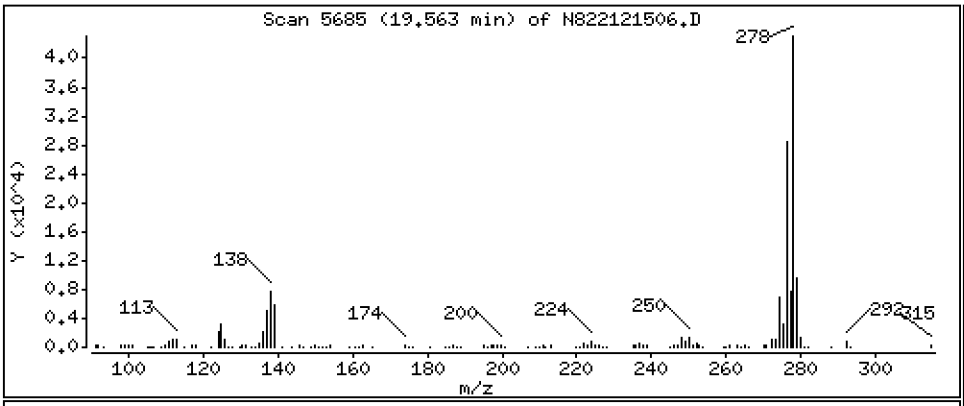
Operator: JZ

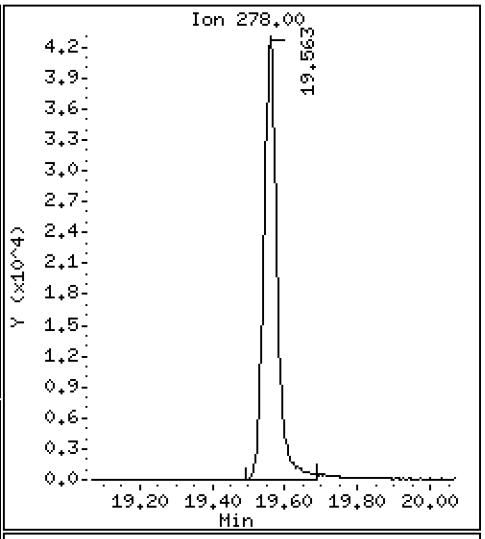
Column phase: Rxi-17sil

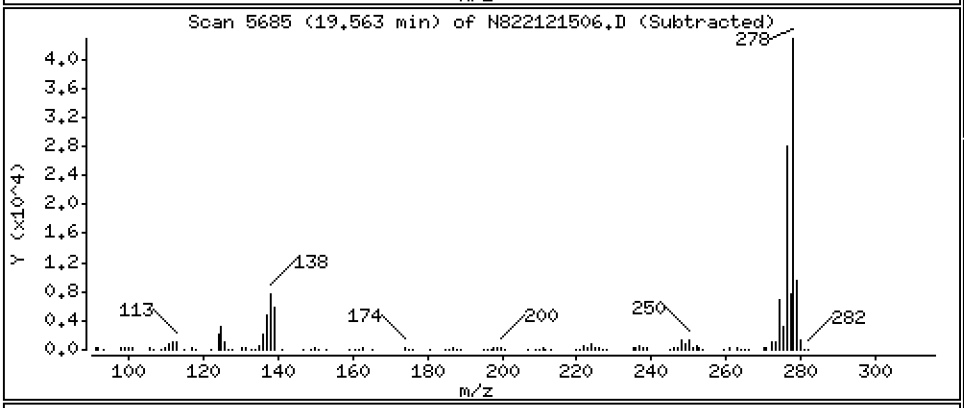
Column diameter: 0.25

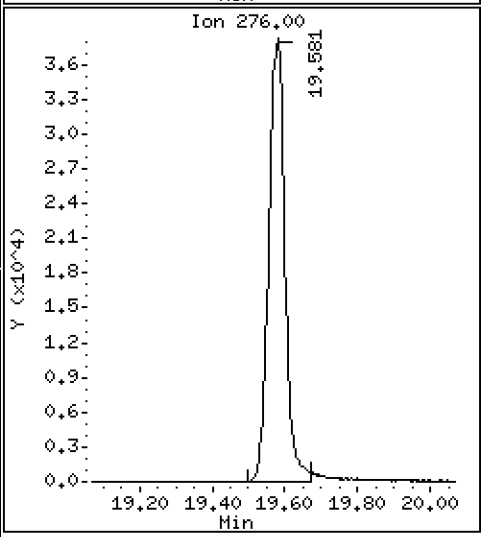
38 Dibenzo(a,h)anthracene

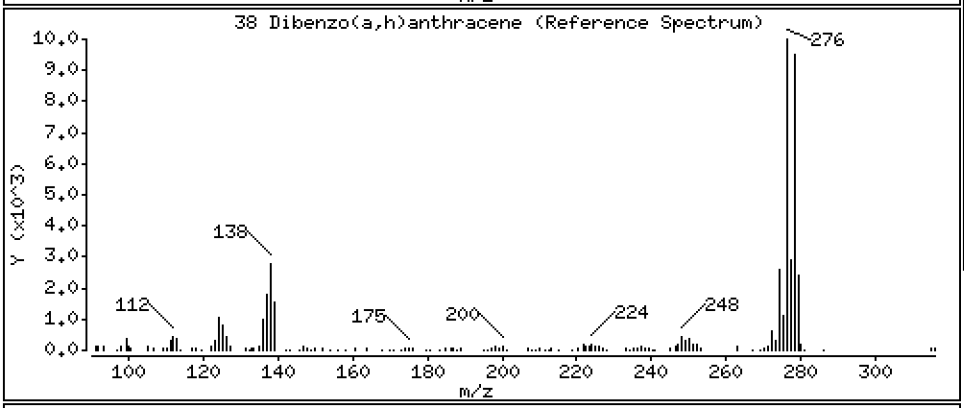
Concentration: 5.116 ug/mL

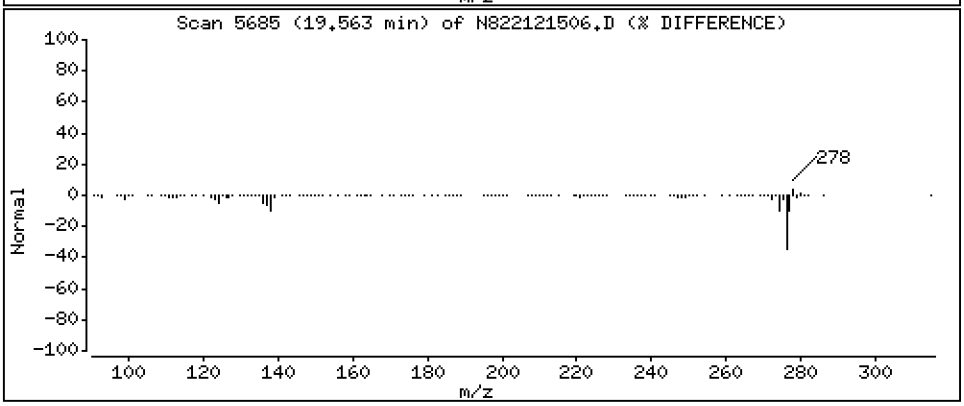












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121506.D

Date : 15-DEC-2022 17:08

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-BSD1,

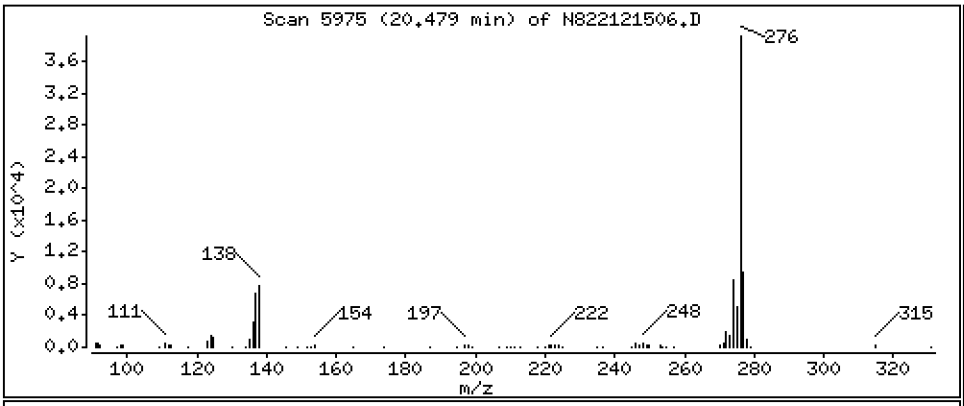
Operator: JZ

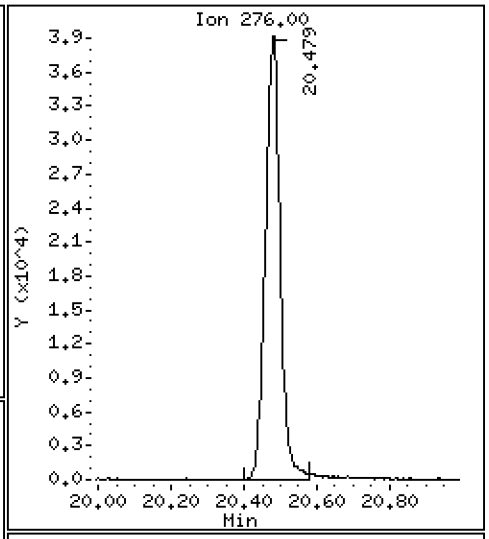
Column phase: Rxi-17sil

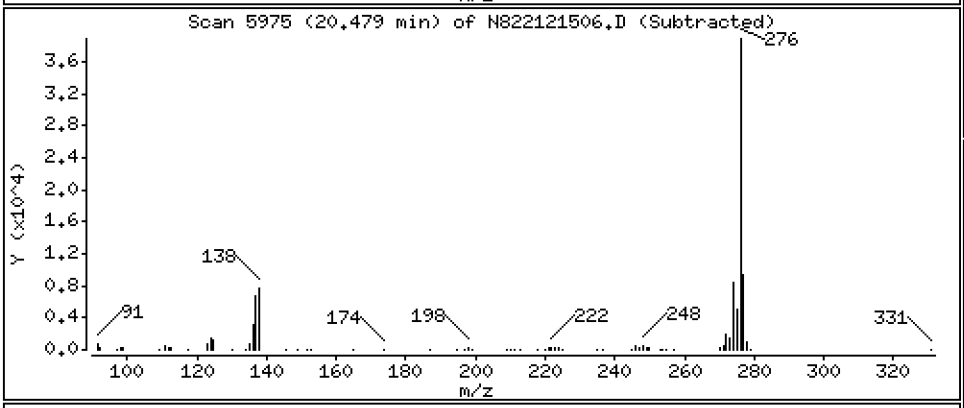
Column diameter: 0.25

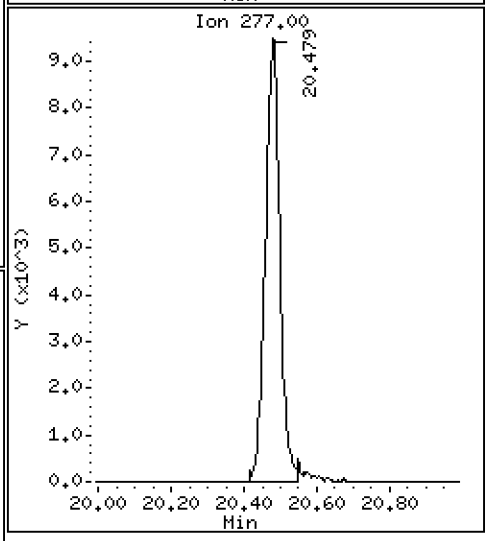
39 Benzo(g,h,i)perylene

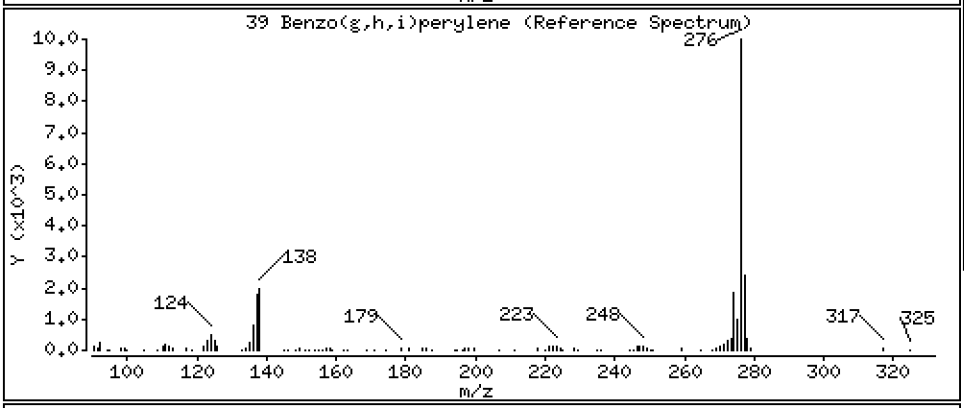
Concentration: 4.788 ug/mL

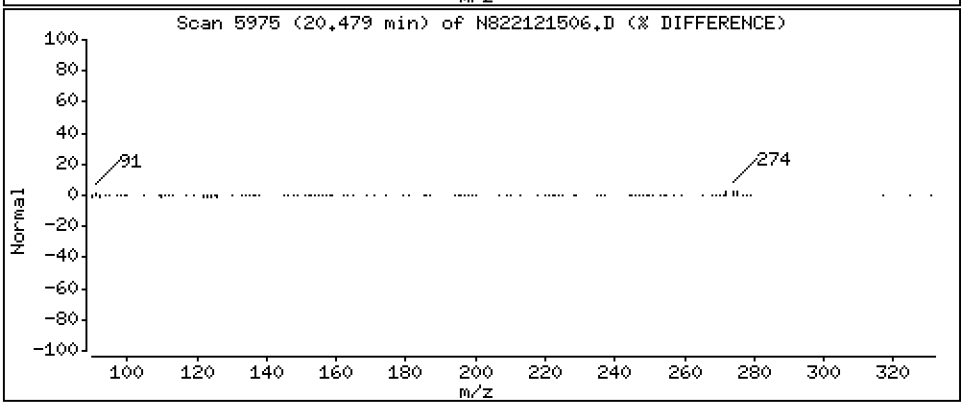












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20221215.b\N822121506.D
Lab Smp Id: BKL0196-BSD1
Inj Date : 15-DEC-2022 17:08
Operator : JZ Inst ID: nt8.i
Smp Info : BKL0196-BSD1,
Misc Info : 22-
Comment   : 1ul Injection
Method   : \\target\share\chem3\nt8.i\20221215.b\FSIMPNA220411.m
Meth Date : 16-Dec-2022 15:49 jianqing Quant Type: ISTD
Cal Date : 12-APR-2022 15:49 Cal File: NT822041208.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PNAXMDL.sub
Target Version: 4.14
Processing Host: JIANQING-202105

								CONCENTRATIONS	
		QUANT SIG						ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE		(ug/mL)	(ug/mL)
*	1 Naphthalene-d8	136	4.508	4.521	(1.000)	44922		2.00000	
	2 Naphthalene	128	4.536	4.549	(1.006)	65058		2.85817	2.858
$	3 2-Methylnaphthalene-d10	152	5.238	5.248	(1.162)	26881		1.58655	1.587
	4 2-Methylnaphthalene	141	5.286	5.295	(1.173)	38181		2.94796	2.948
	5 1-methylnaphthalene	141	5.479	5.488	(1.215)	38936		3.07414	3.074
	9 Acenaphthylene	152	6.667	6.677	(0.984)	61717		2.58759	2.588
*	10 Acenaphthene-d10	164	6.778	6.785	(1.000)	27605		2.00000	
	11 Acenaphthene	153	6.826	6.835	(1.007)	44121		2.78796	2.788
	12 Dibenzofuran	168	6.977	6.987	(1.029)	67279		3.03023	3.030
	14 Fluorene	166	7.452	7.458	(1.099)	55820		3.12514	3.125
*	15 Phenanthrene-d10	188	8.799	8.805	(1.000)	52363		2.00000	
	16 Phenanthrene	178	8.833	8.840	(1.004)	89667		3.22798	3.228
	17 Anthracene	178	8.875	8.881	(1.009)	82088		3.08532	3.085
	22 Fluoranthene	202	10.503	10.512	(1.194)	111432		3.66631	3.666
$	21 Fluoranthene-d10	212	10.471	10.478	(1.190)	66863		1.93104	1.931
	23 Pyrene	202	10.980	10.984	(0.817)	117917		3.38790	3.388
	24 Benzo(a)anthracene	228	13.327	13.333	(0.991)	119576		3.67378	3.674
*	25 Chrysene-d12	240	13.444	13.453	(1.000)	51496		2.00000	
	27 Chrysene	228	13.516	13.526	(1.005)	118500		3.81024	3.810
	28 Benzo(b)fluoranthene	252	15.973	15.986	(0.928)	122768		3.87721	3.877
	29 Benzo(k)fluoranthene	252	16.030	16.043	(0.931)	113876		3.87689	3.877
	30 Benzo(j)fluoranthene	252	16.109	16.119	(0.936)	113404		4.20256	4.203
	31 Total Benzofluoranthenes	252	15.973	15.986	(0.928)	346178		11.8535	11.85(M)
	32 Benzo(a)pyrene	252	16.994	17.004	(0.987)	89956		3.44165	3.442
*	33 Perylene-d12	264	17.216	17.229	(1.000)	44597		2.00000	
	35 Perylene	252	17.295	17.308	(1.005)	91072		3.47955	3.480
$	36 Dibenzo(a,h)anthracene-d14	292	19.461	19.470	(1.130)	61996		3.23596	3.236
	37 Indeno(1,2,3-cd)pyrene	276	19.581	19.587	(1.137)	120526		4.70156	4.702
	38 Dibenzo(a,h)anthracene	278	19.562	19.568	(1.136)	113133		5.11572	5.116
	39 Benzo(g,h,i)perylene	276	20.479	20.492	(1.190)	114184		4.78825	4.788

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt8.i
Lab File ID: N822121506.D
Lab Smp Id: BKL0196-BSD1
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: \\target\share\chem3\nt8.i\20221215.b\FSIMPNA220411.m
Misc Info: 22-

Calibration Date: 15-DEC-2022
Calibration Time: 10:02
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	49492	24746	98984	44922	-9.23
10 Acenaphthene-d10	30076	15038	60152	27605	-8.22
15 Phenanthrene-d10	58825	29413	117650	52363	-10.99
25 Chrysene-d12	58593	29297	117186	51496	-12.11
33 Perylene-d12	63012	31506	126024	44597	-29.22

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	4.52	4.02	5.02	4.51	-0.28
10 Acenaphthene-d10	6.79	6.29	7.29	6.78	-0.09
15 Phenanthrene-d10	8.81	8.31	9.31	8.80	-0.07
25 Chrysene-d12	13.45	12.95	13.95	13.44	-0.07
33 Perylene-d12	17.23	16.73	17.73	17.22	-0.07

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

REVIEW SUMMARY FOR FILE - N822121506.D

Lab ID: BKL0196-BSD1
nt8.i, 20221215.b\FSIMPNA220411.m,   15-DEC-2022 17:08

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

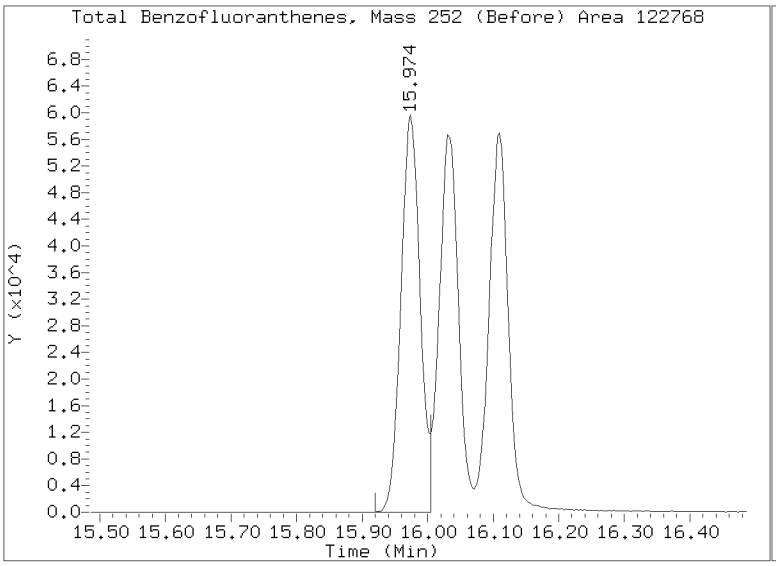
No RRT check performed

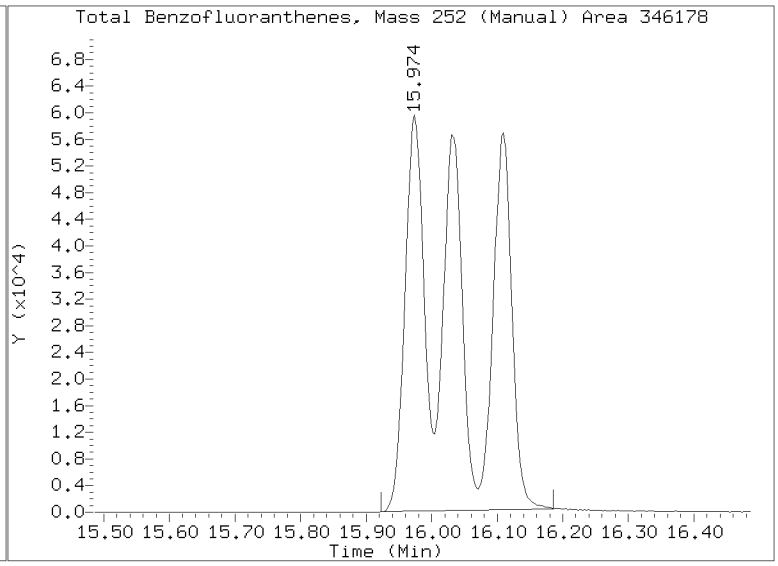
On Column LOD for nt8.i, 20221215.b\FSIMPNA220411.m, PNAXMDL.sub = 0.0080

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20221215.b/N822121506.D
Injection Date: 15-DEC-2022 17:08
Lab ID:BKL0196-BSD1 Client ID:
Report Date: 12/16/2022 16:17





MS / MS DUPLICATE RECOVERY
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/15/22 18:55
Batch:	BKL0196	Laboratory ID:	BKL0196-MS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike
Initial/Final:	16.44 g / 0.5 mL	Source Sample:	LDW22-SS818

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	Q	MS CONCENTRATION (ug/kg dry)	Q	MS % REC. #	QC LIMITS REC.
Naphthalene	300	4.51	J, D	122	D	39.2	36 - 120
2-Methylnaphthalene	300	6.20	J, D	133	D	42.1	35 - 120
Acenaphthylene	300	ND	U	139	D	46.4	35 - 120
Acenaphthene	300	11.0	J, D	141	D	43.3	39 - 120
Fluorene	300	4.25	J, D	156	D	50.7	41 - 120
Phenanthrene	300	26.4	D	179	D	50.9	46 - 120
Anthracene	300	6.05	J, D	152	D	48.7	36 - 120
Fluoranthene	300	48.6	D	224	D	58.5	46 - 120
Pyrene	300	46.4	D	237	D	63.6	49 - 120
Benzo(a)anthracene	300	16.5	D	192	D	58.4	42 - 120
Chrysene	300	22.9	D	203	D	60.0	48 - 120
Benzo(b)fluoranthene	300	19.4	D	159	*, D	46.6 *	52 - 137
Benzo(k)fluoranthene	300	9.96	J, D	152	D	47.4	37 - 129
Benzo(a)pyrene	300	17.0	D	168	D	50.3	36 - 120
Indeno(1,2,3-cd)pyrene	300	18.2	D	211	*, D	64.1 *	67 - 132
Dibenzo(a,h)anthracene	300	6.30	J, D	196	*, D	63.2 *	66 - 139
Benzo(g,h,i)perylene	300	22.9	D	212	D	62.9	51 - 153

* Values outside of QC limits

MS / MS DUPLICATE RECOVERY
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/15/22 19:22
Batch:	BKL0196	Laboratory ID:	BKL0196-MSD1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike Dup
Initial/Final:	16.44 g / 0.5 mL	Source Sample:	LDW22-SS818

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	Q	MSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	300	133	D	42.7		8.33	30	36 - 120
2-Methylnaphthalene	300	143	D	45.7		7.76	30	35 - 120
Acenaphthylene	300	144	D	47.9		3.03	30	35 - 120
Acenaphthene	300	149	D	45.9		5.40	30	39 - 120
Fluorene	300	164	D	53.4		5.04	30	41 - 120
Phenanthrene	300	180	D	51.3		0.618	30	46 - 120
Anthracene	300	162	D	51.9		6.13	30	36 - 120
Fluoranthene	300	216	D	55.9		3.65	30	46 - 120
Pyrene	300	225	D	59.5		5.35	30	49 - 120
Benzo(a)anthracene	300	188	D	57.2		1.88	30	42 - 120
Chrysene	300	198	D	58.4		2.35	30	48 - 120
Benzo(b)fluoranthene	300	159	*, D	46.7	*	0.185	30	52 - 137
Benzo(k)fluoranthene	300	152	D	47.4		0.0601	30	37 - 129
Benzo(a)pyrene	300	164	D	48.9		2.47	30	36 - 120
Indeno(1,2,3-cd)pyrene	300	214	*, D	65.4	*	1.81	30	67 - 132
Dibenzo(a,h)anthracene	300	195	*, D	62.9	*	0.450	30	66 - 139
Benzo(g,h,i)perylene	300	208	D	61.7		1.74	30	51 - 153

* Values outside of QC limits

Data File: \\target\share\chem3\nt8.i\20221215.b\N822121510.D

Date : 15-DEC-2022 18:55

Client ID:

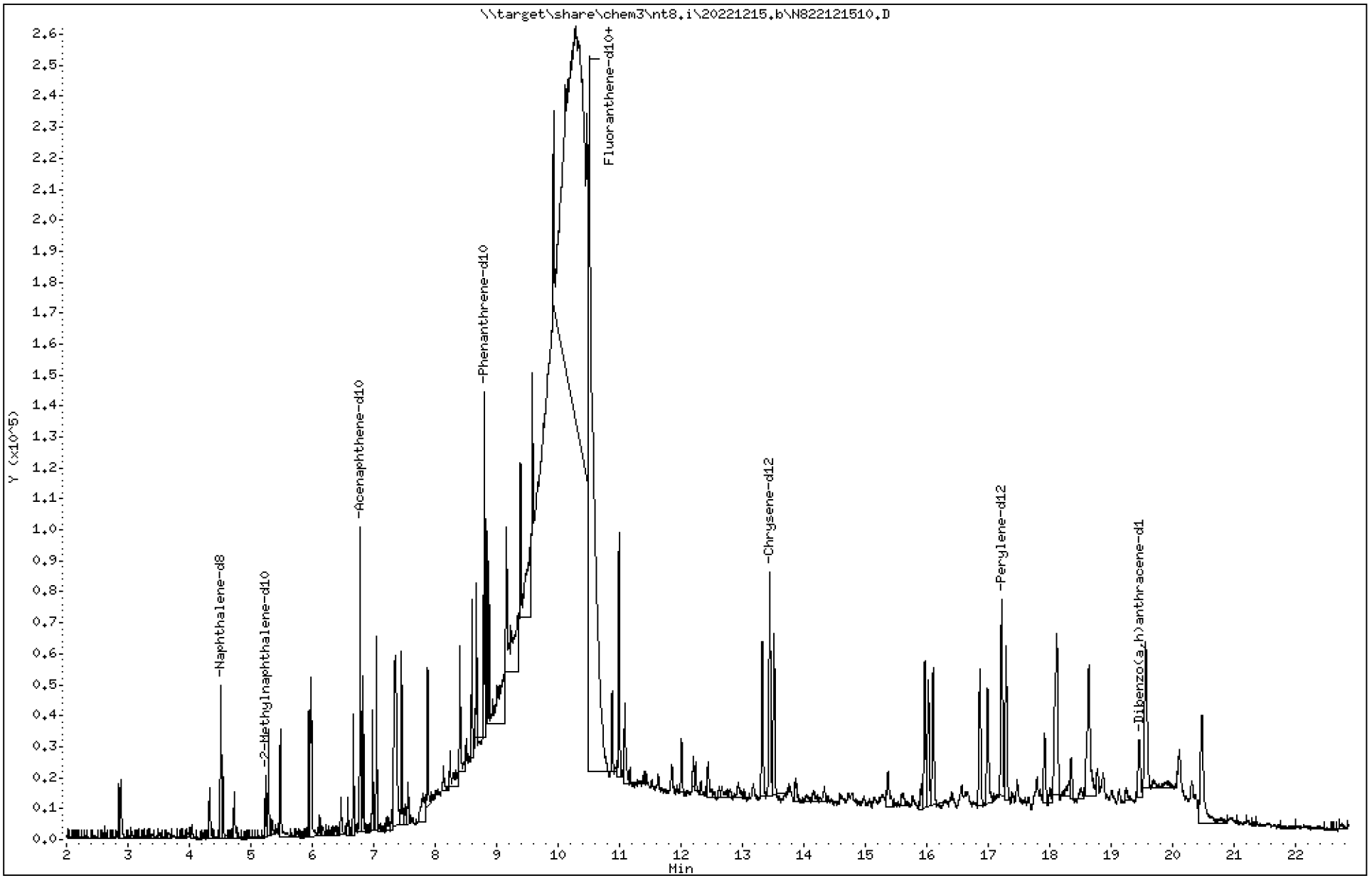
Instrument: nt8.i

Sample Info: BKL0196-MS1,3

Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25



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Date : 15-DEC-2022 18:55

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MS1,3

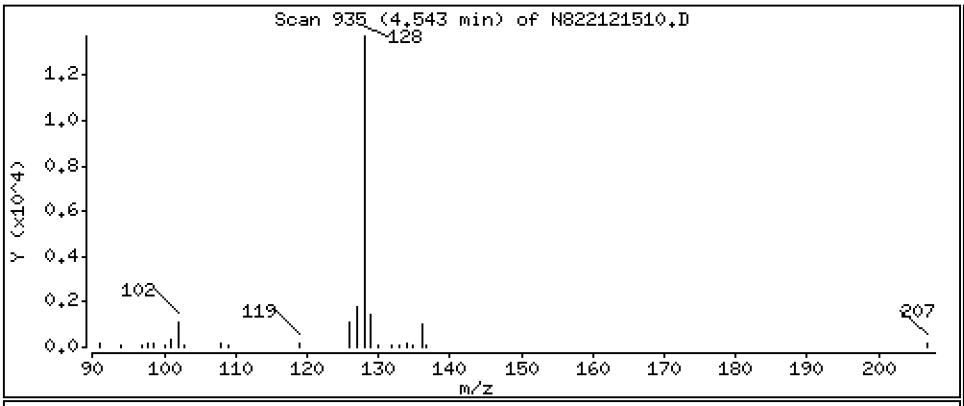
Operator: JZ

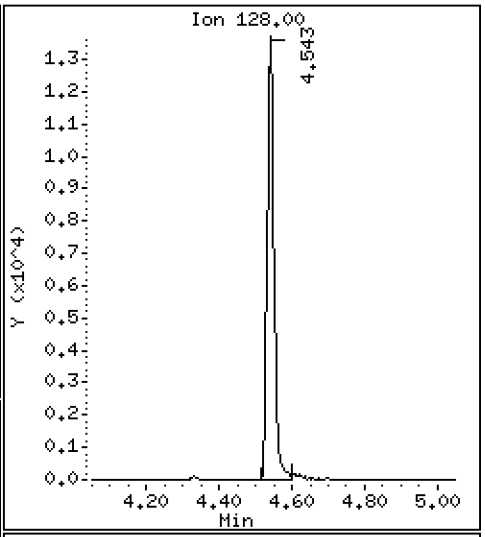
Column phase: Rxi-17sil

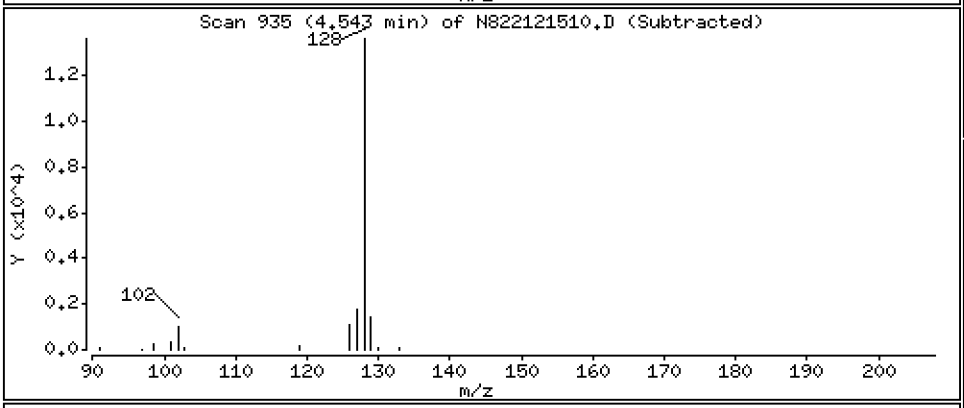
Column diameter: 0.25

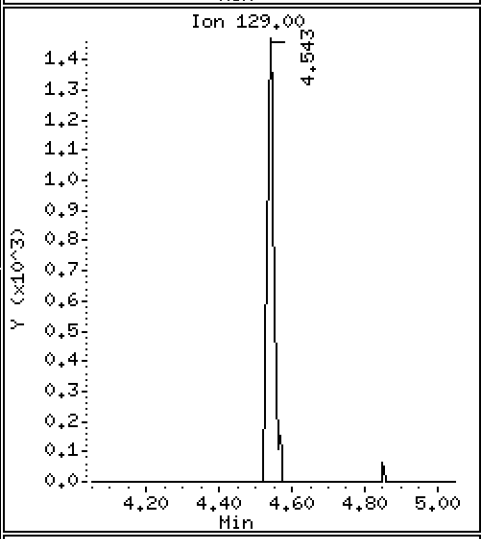
2 Naphthalene

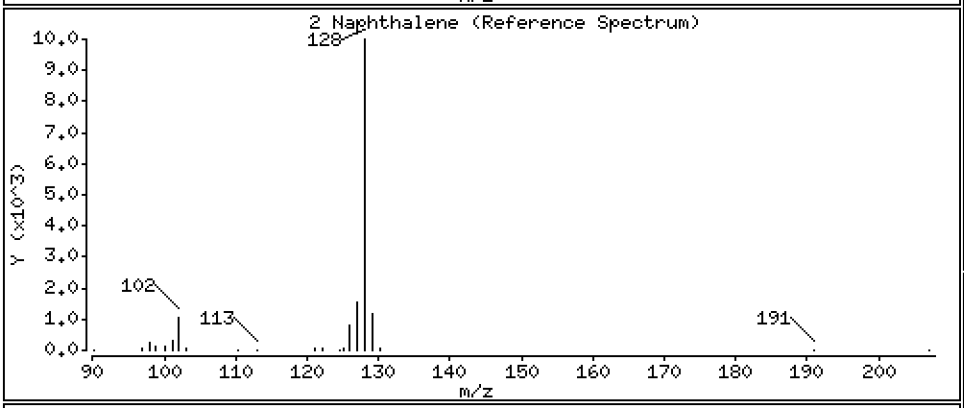
Concentration: 2.440 ug/mL

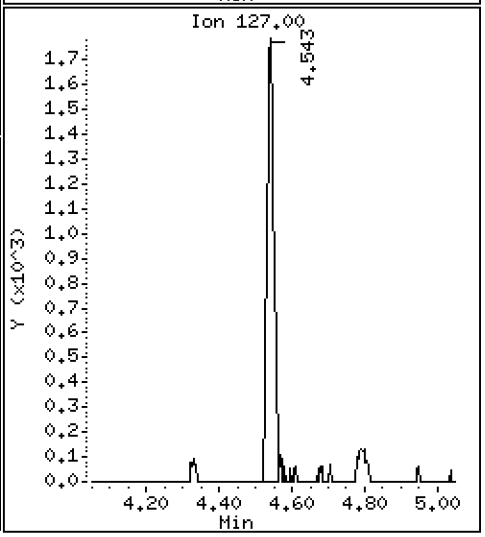


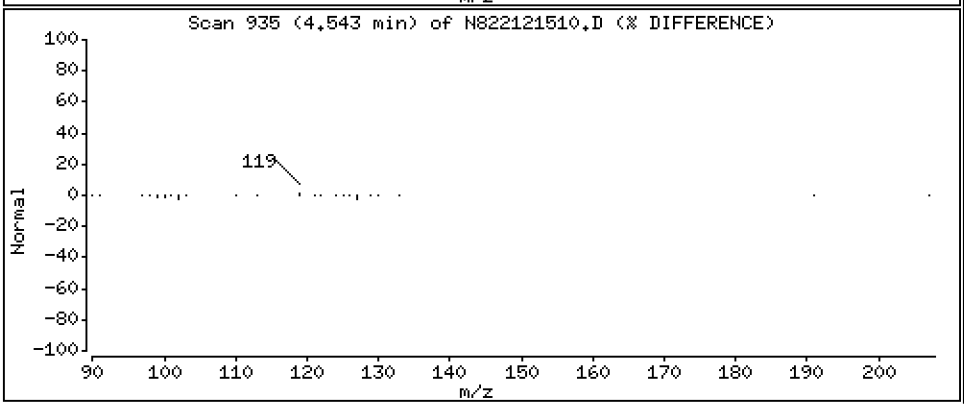












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Date : 15-DEC-2022 18:55

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MS1,3

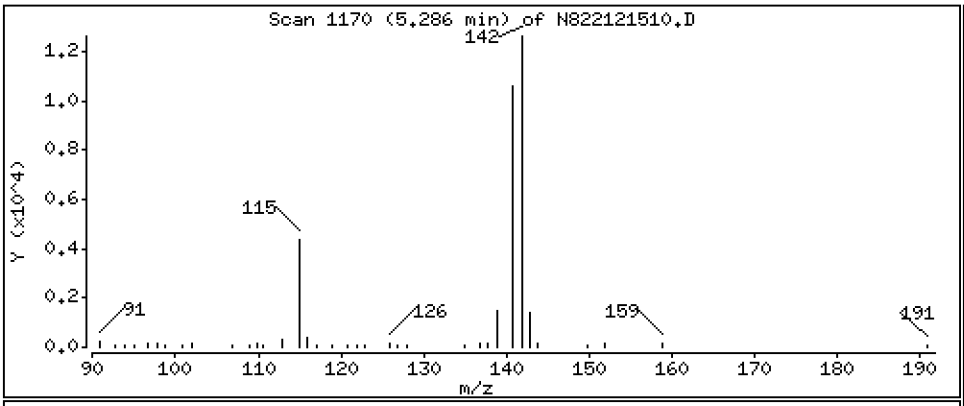
Operator: JZ

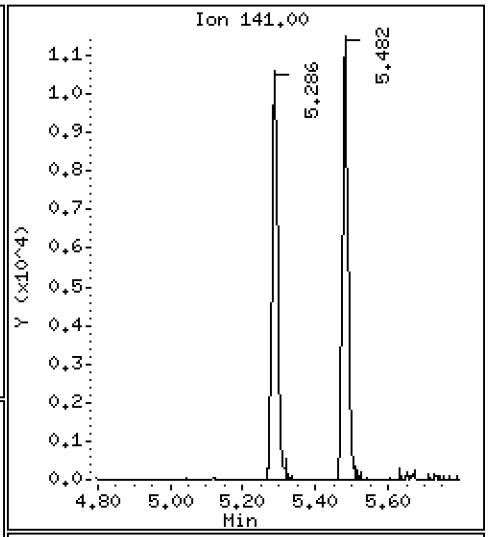
Column phase: Rxi-17sil

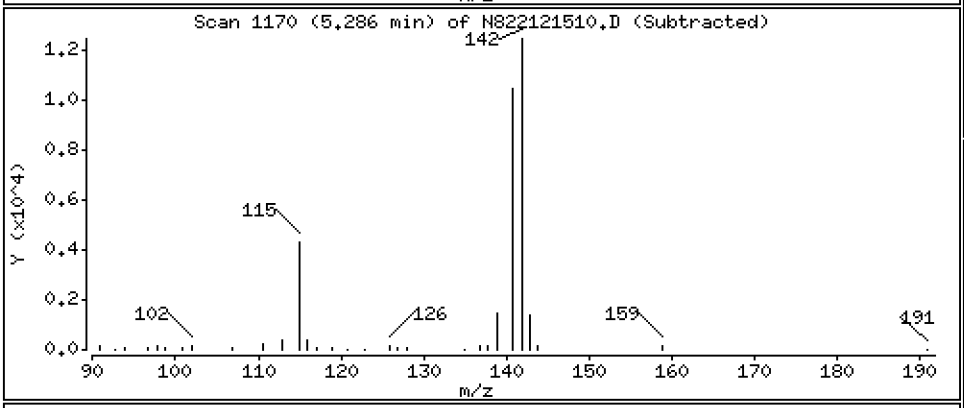
Column diameter: 0.25

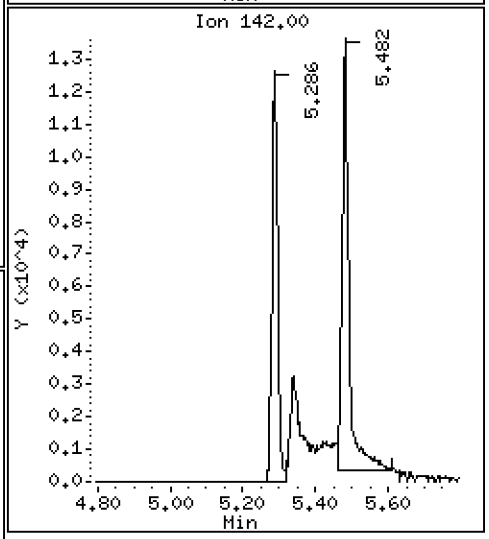
4 2-Methylnaphthalene

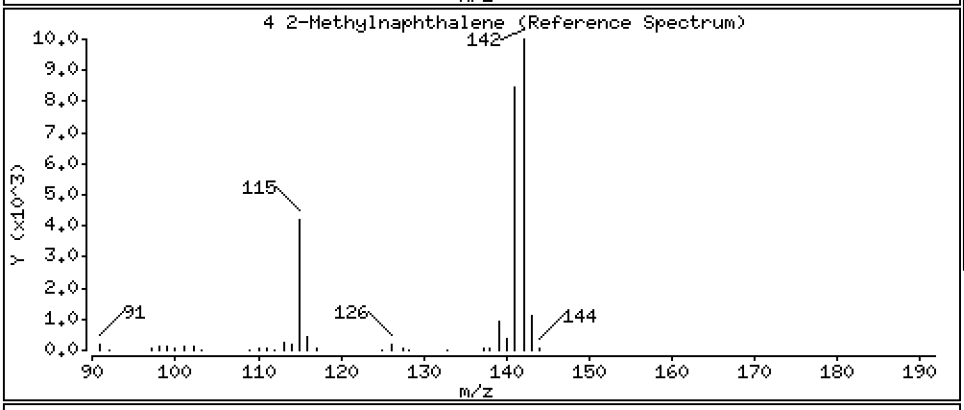
Concentration: 2.651 ug/mL

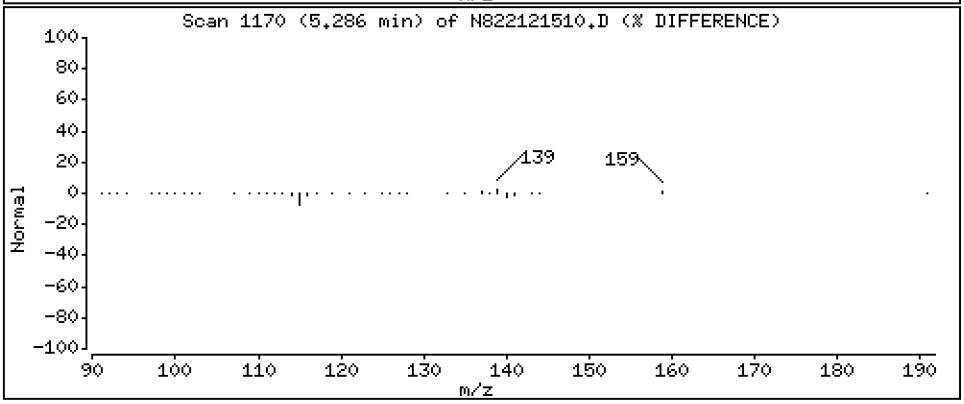












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121510.D

Date : 15-DEC-2022 18:55

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MS1,3

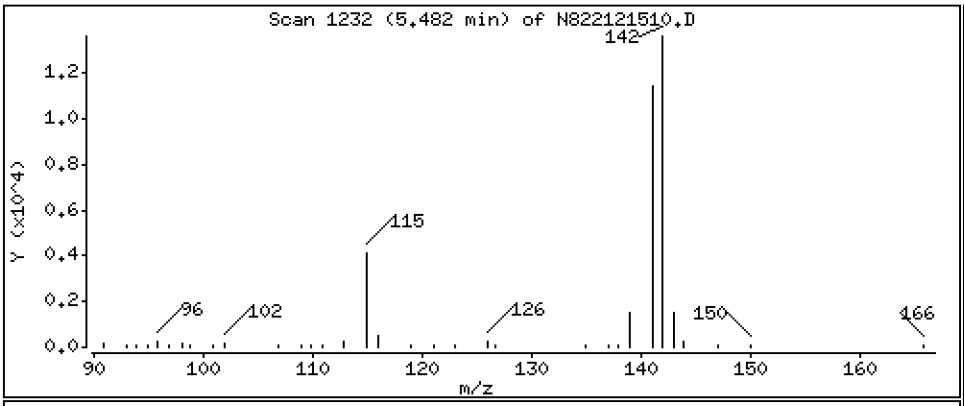
Operator: JZ

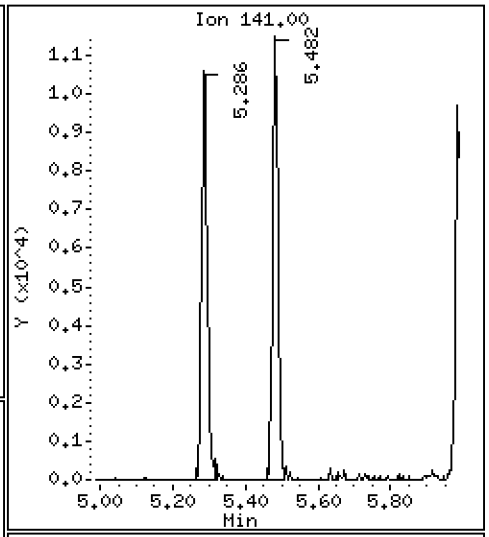
Column phase: Rxi-17sil

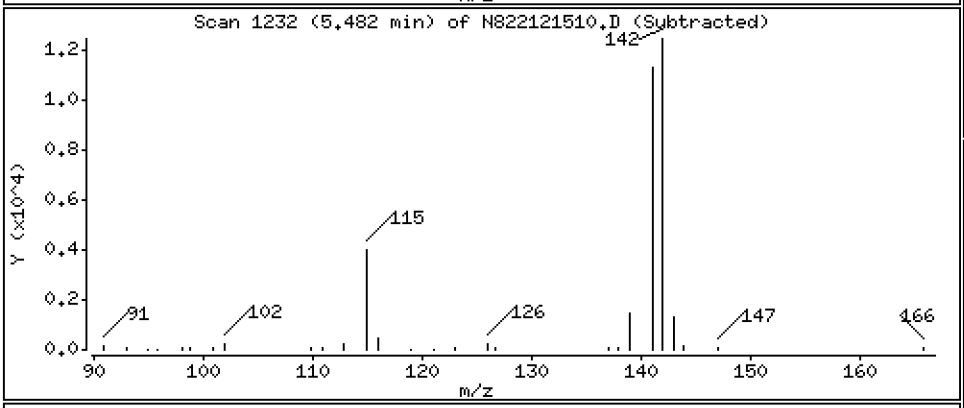
Column diameter: 0.25

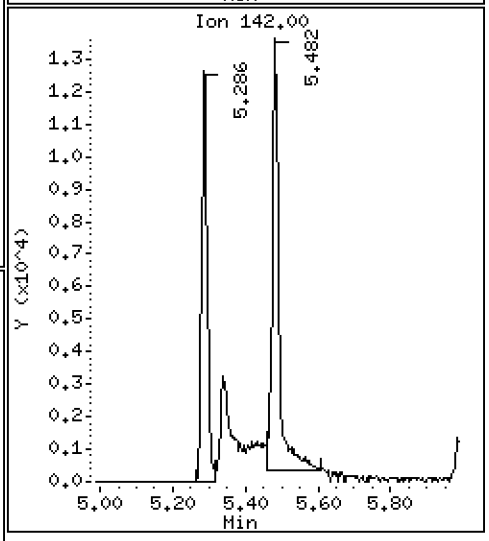
5 1-methylnaphthalene

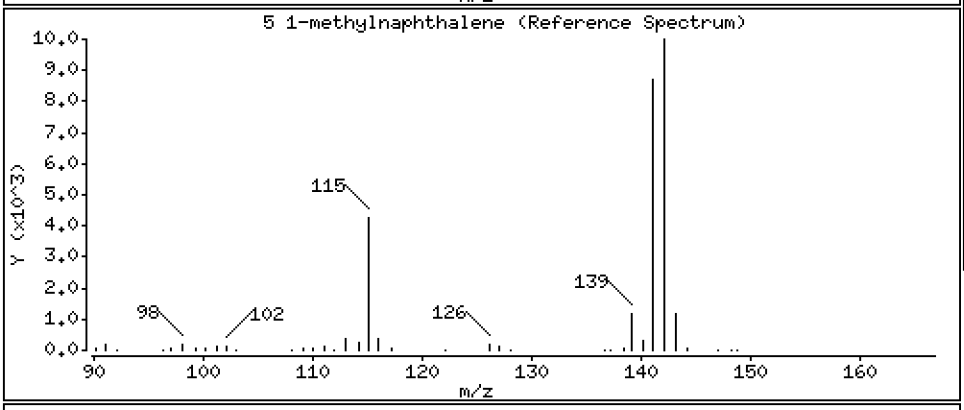
Concentration: 2.780 ug/mL

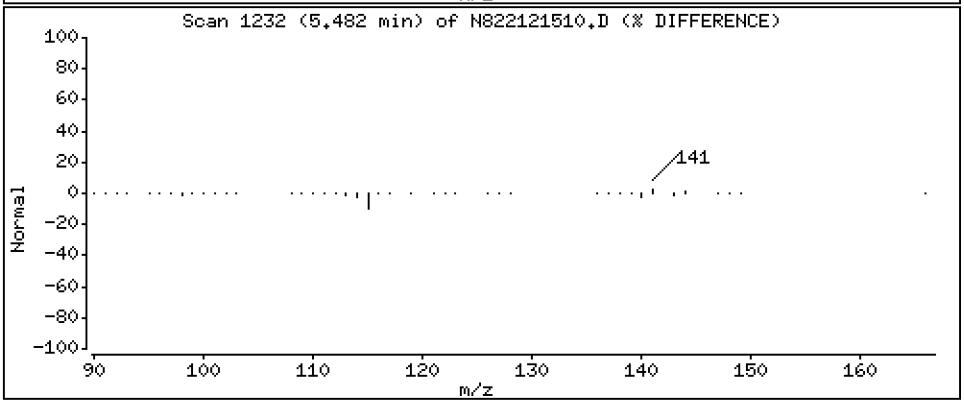












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121510.D

Date : 15-DEC-2022 18:55

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MS1,3

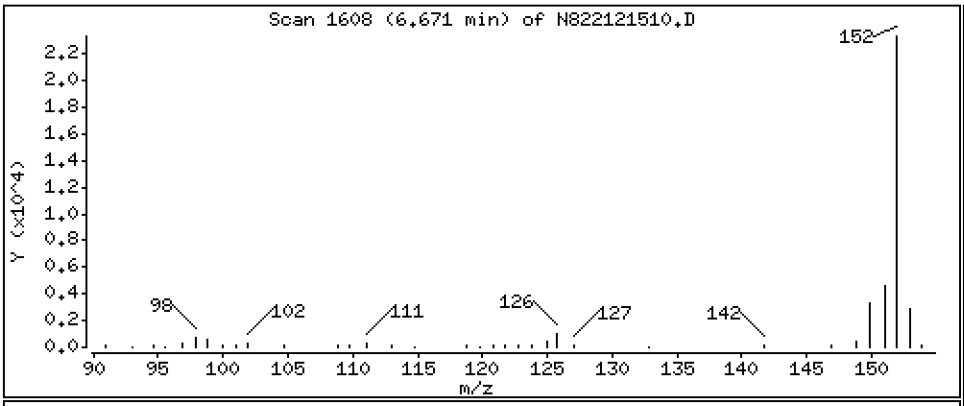
Operator: JZ

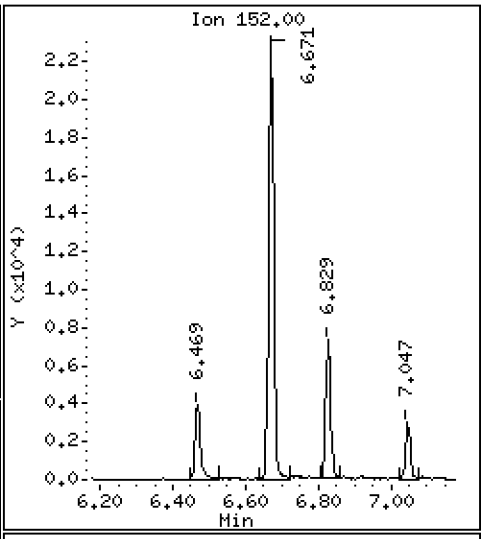
Column phase: Rxi-17sil

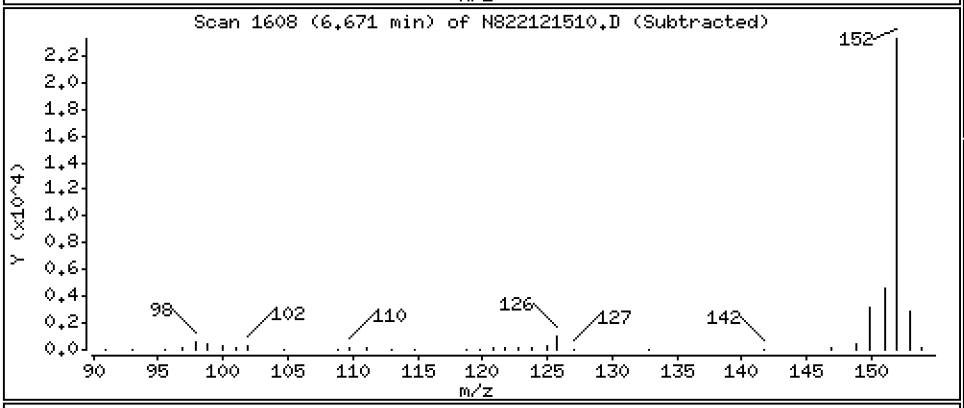
Column diameter: 0.25

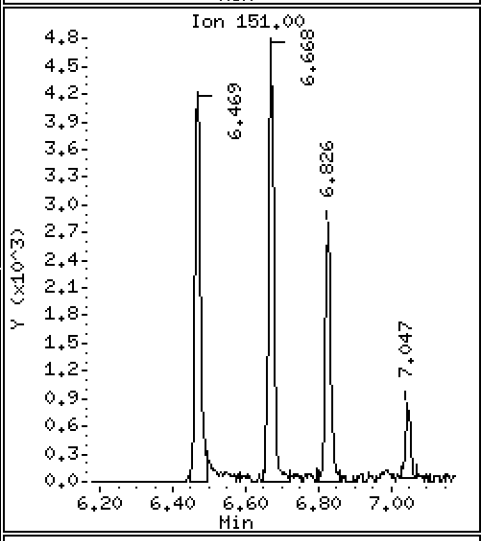
9 Acenaphthylene

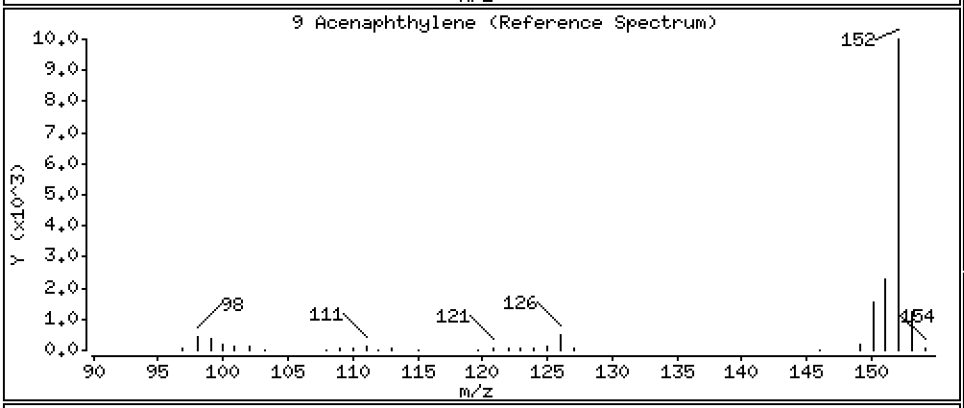
Concentration: 2.787 ug/mL

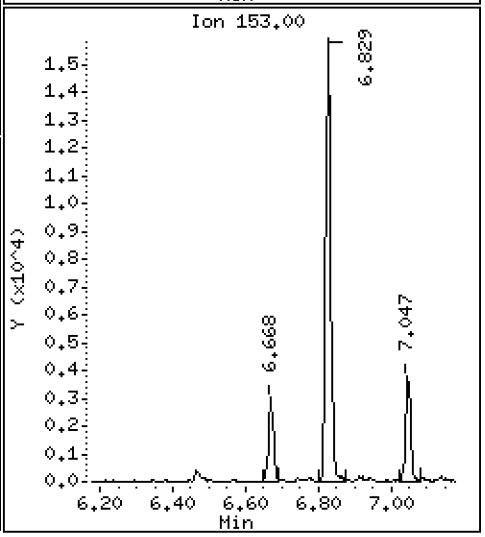


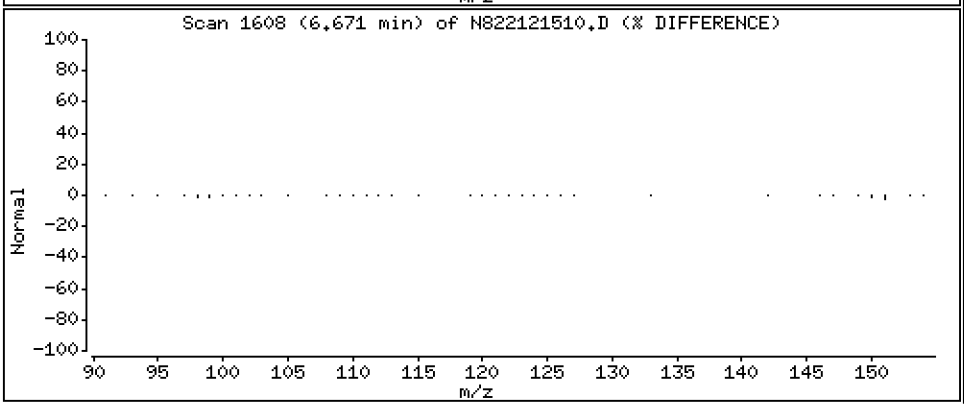












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121510.D

Date : 15-DEC-2022 18:55

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MS1,3

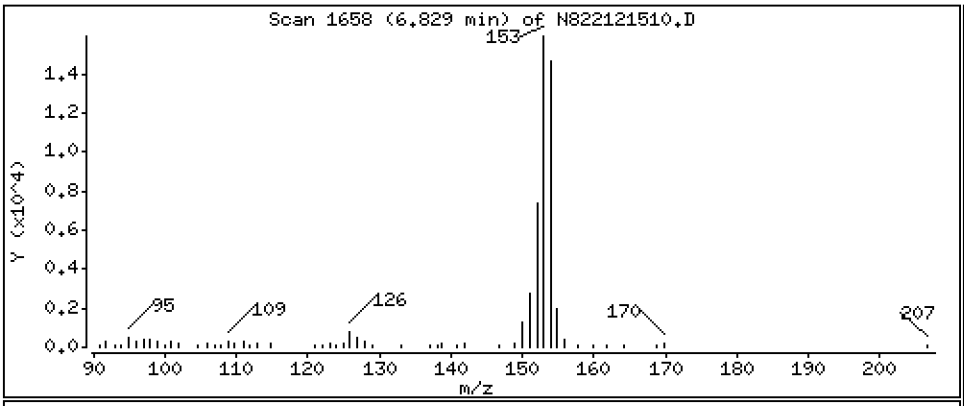
Operator: JZ

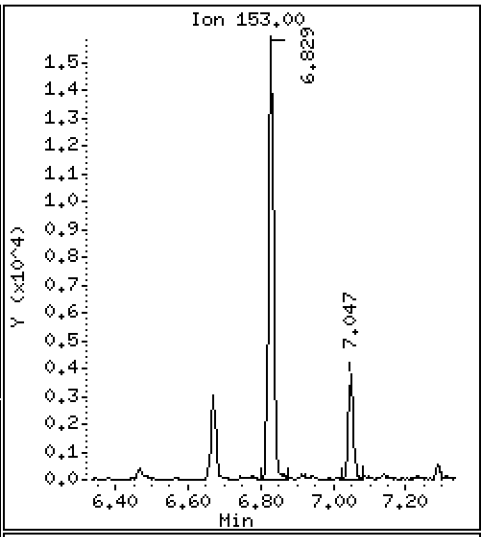
Column phase: Rxi-17sil

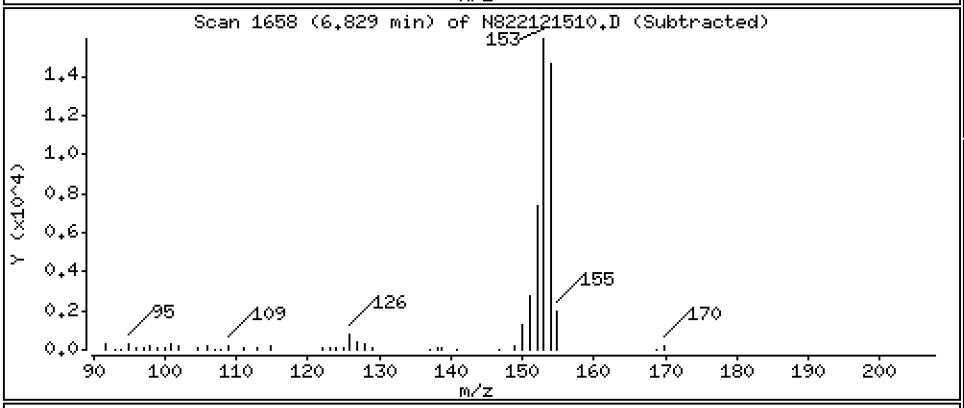
Column diameter: 0.25

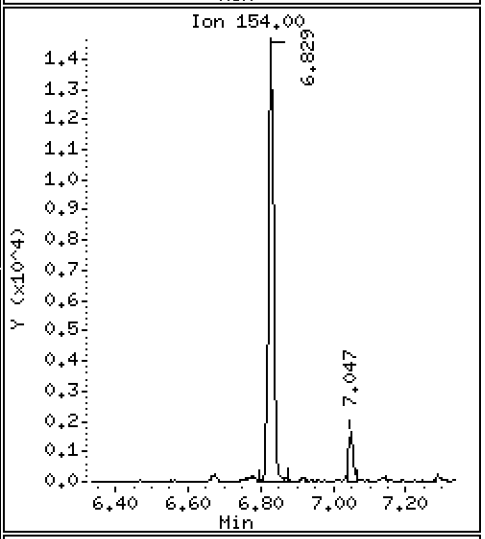
11 Acenaphthene

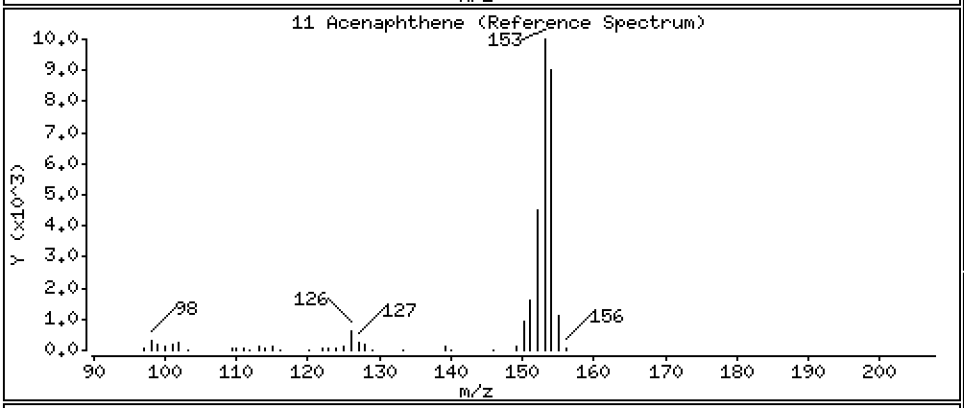
Concentration: 2.819 ug/mL

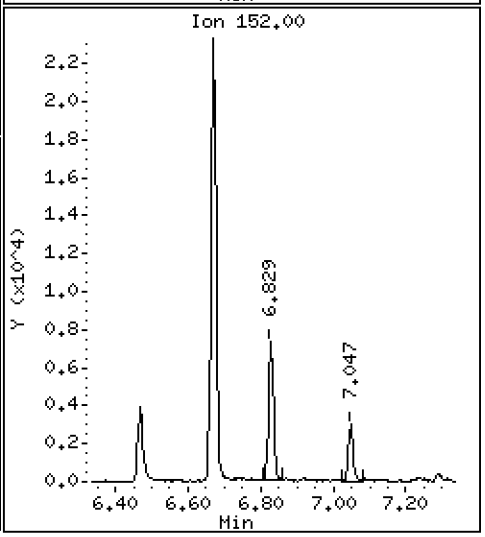


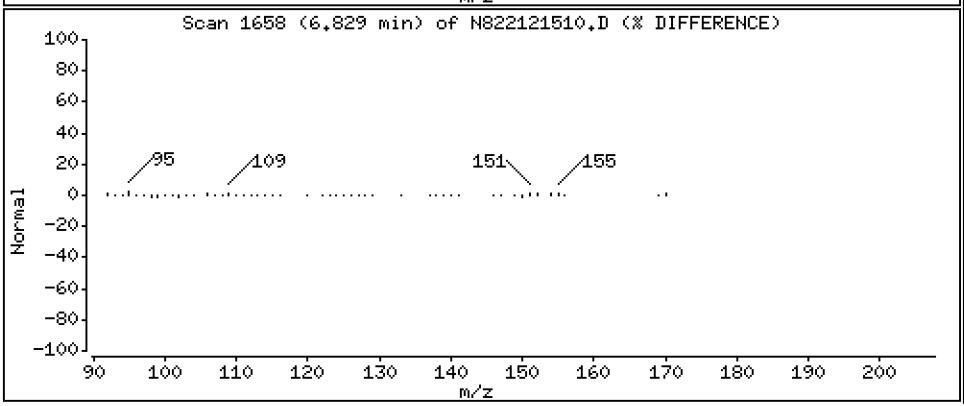












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Date : 15-DEC-2022 18:55

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MS1,3

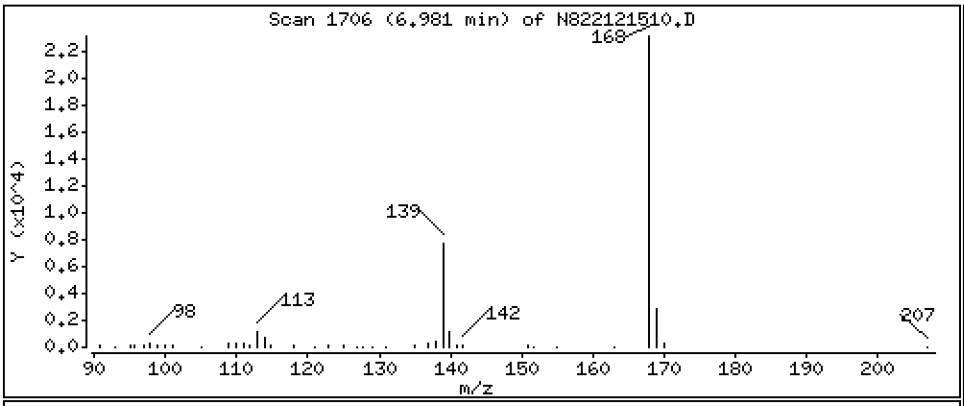
Operator: JZ

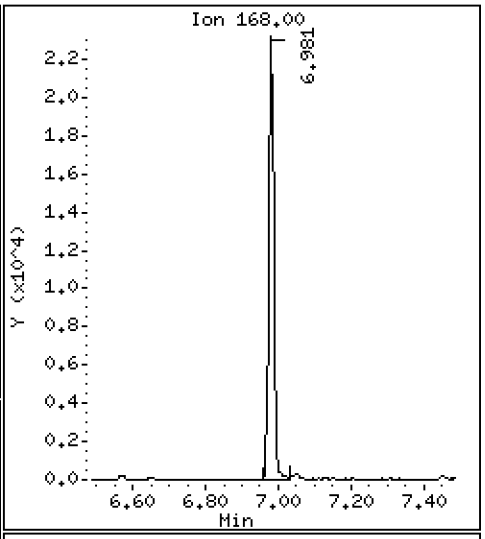
Column phase: Rxi-17sil

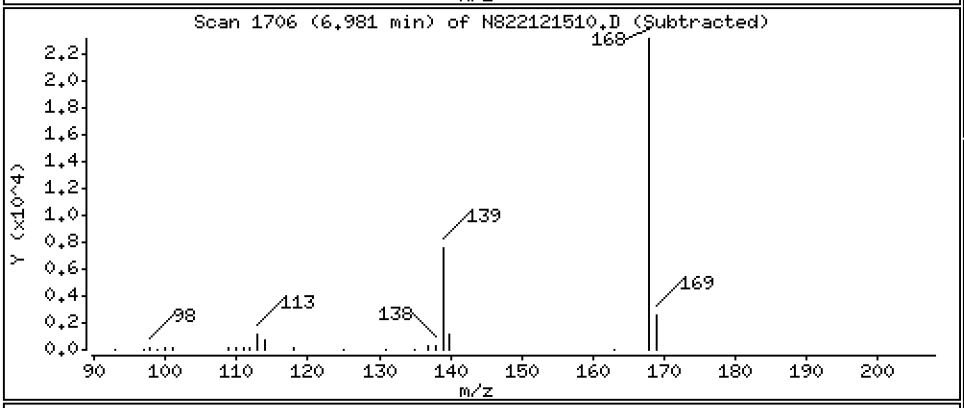
Column diameter: 0.25

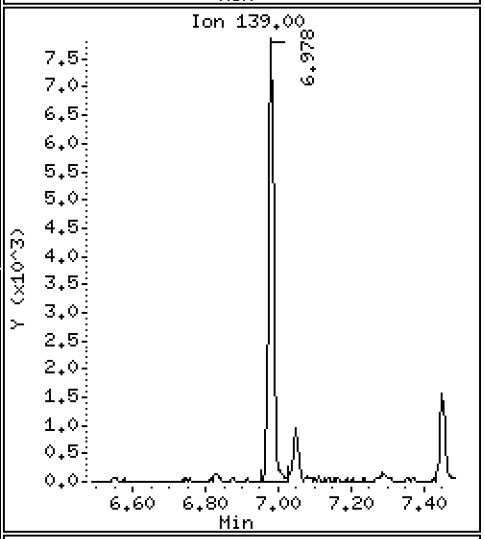
12 Dibenzofuran

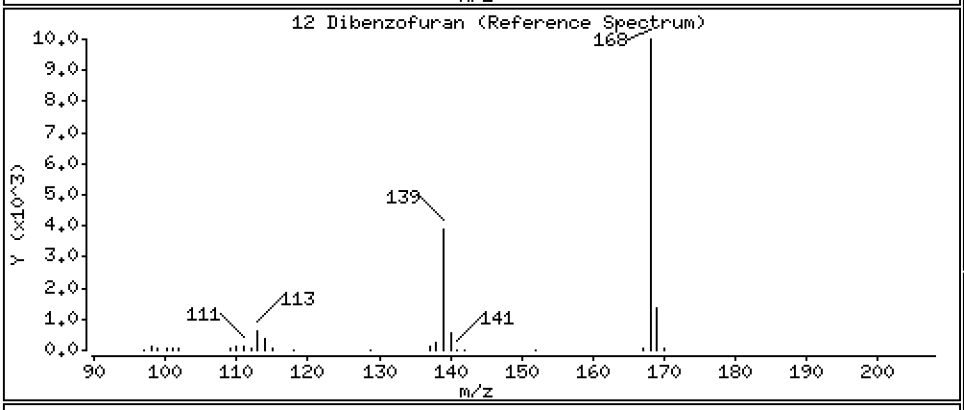
Concentration: 2.945 ug/mL

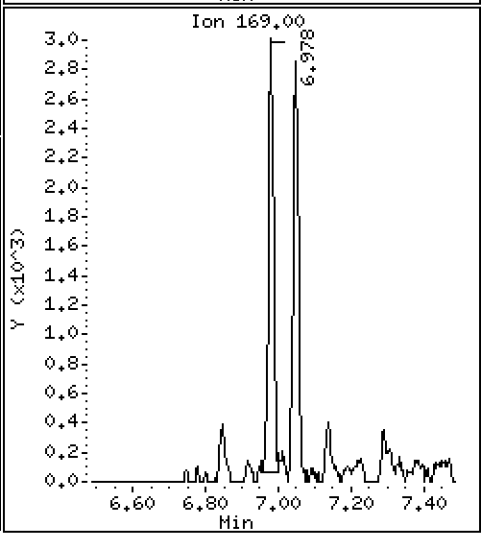


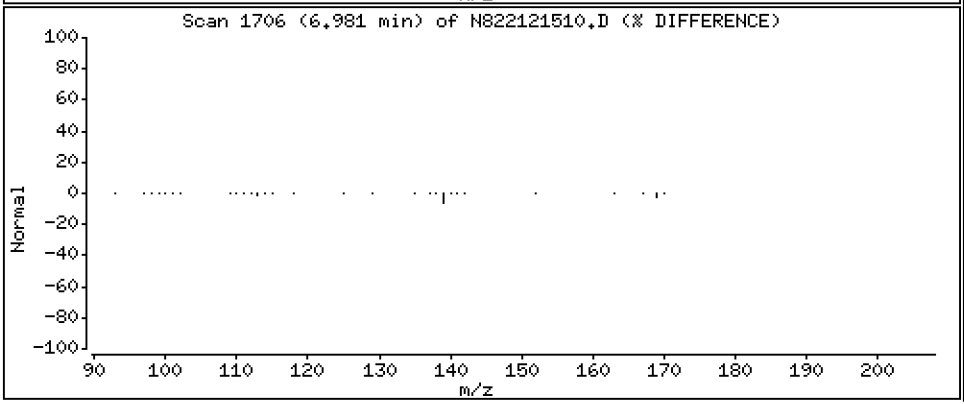












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Date : 15-DEC-2022 18:55

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MS1,3

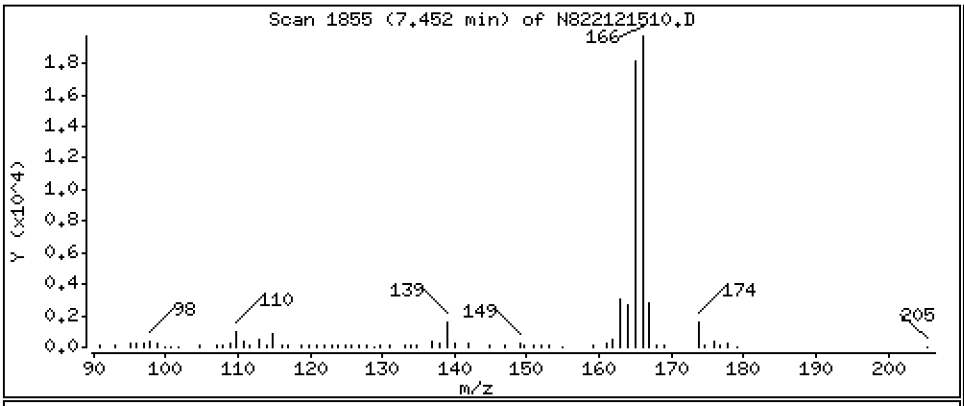
Operator: JZ

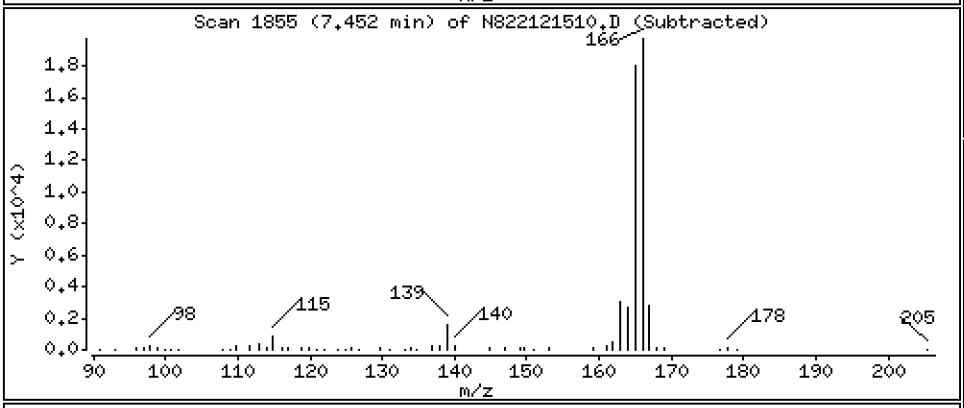
Column phase: Rxi-17sil

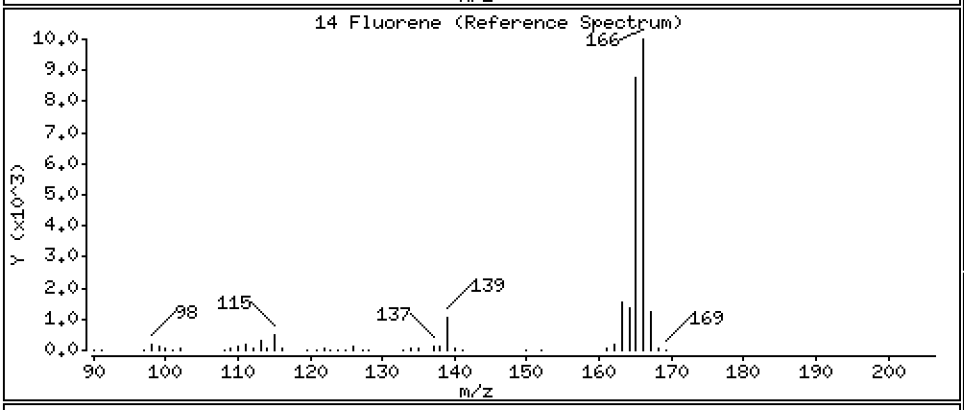
Column diameter: 0.25

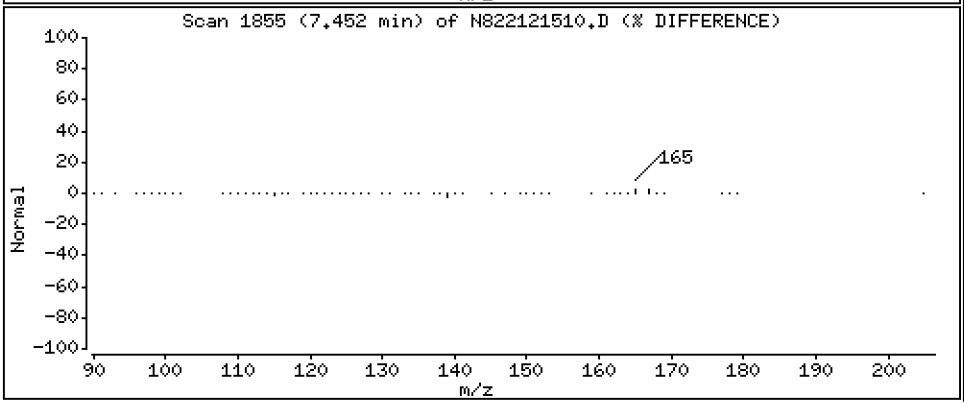
14 Fluorene

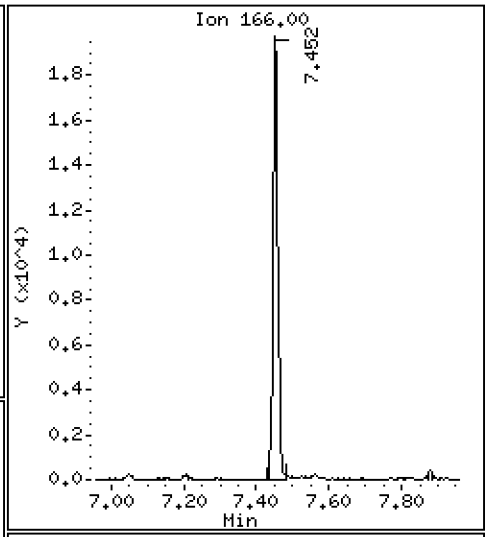
Concentration: 3.127 ug/mL

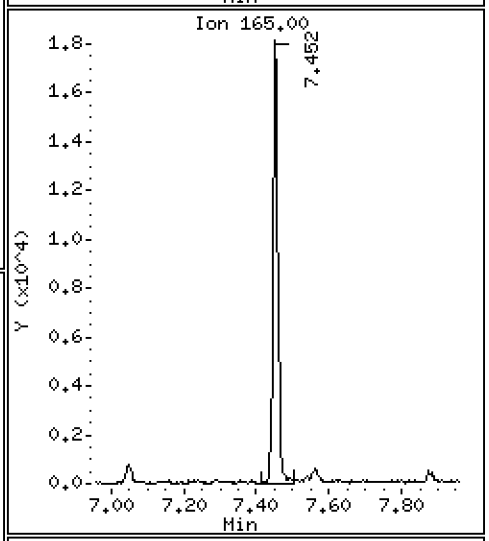


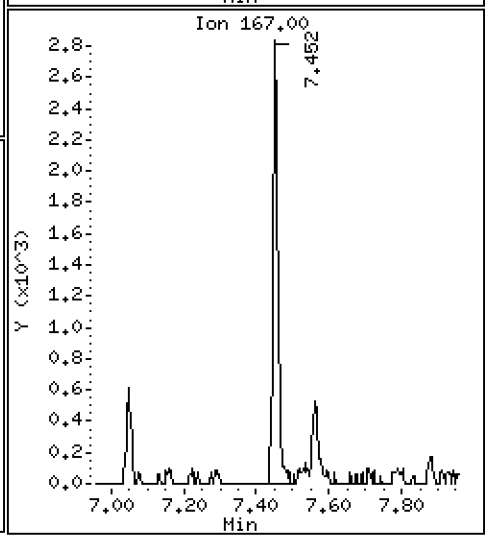












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Date : 15-DEC-2022 18:55

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MS1,3

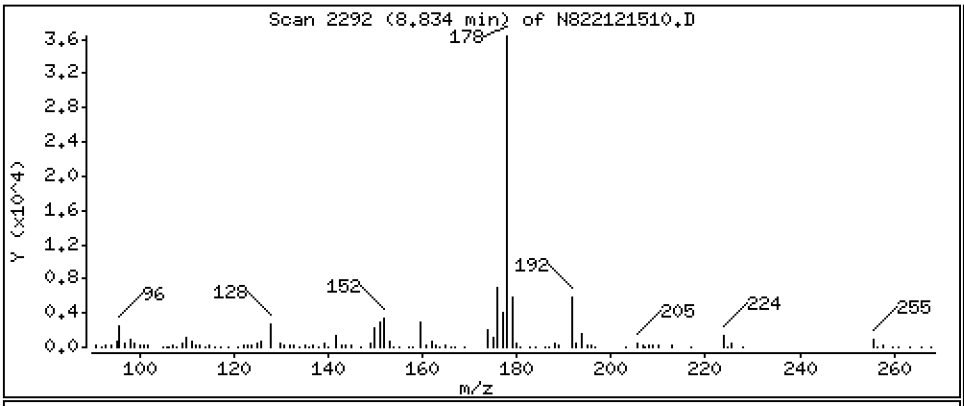
Operator: JZ

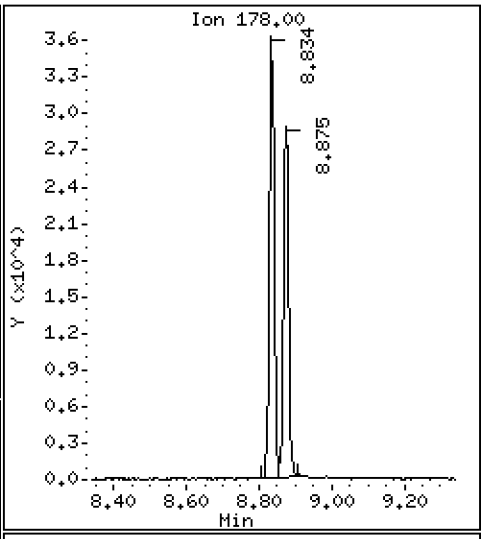
Column phase: Rxi-17sil

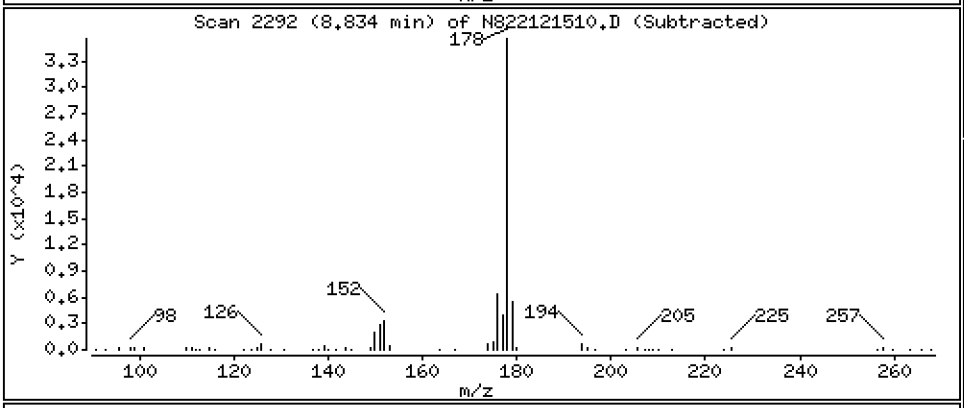
Column diameter: 0.25

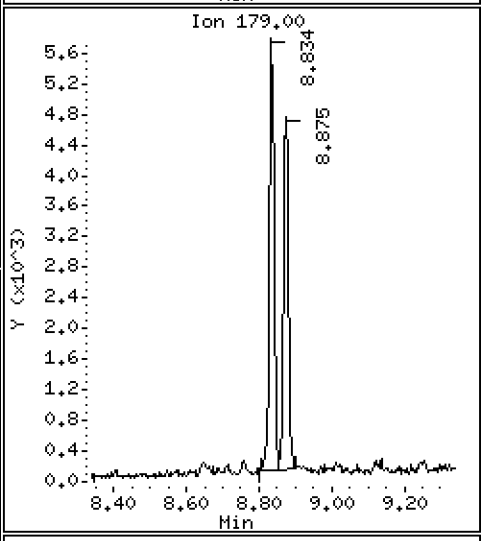
16 Phenanthrene

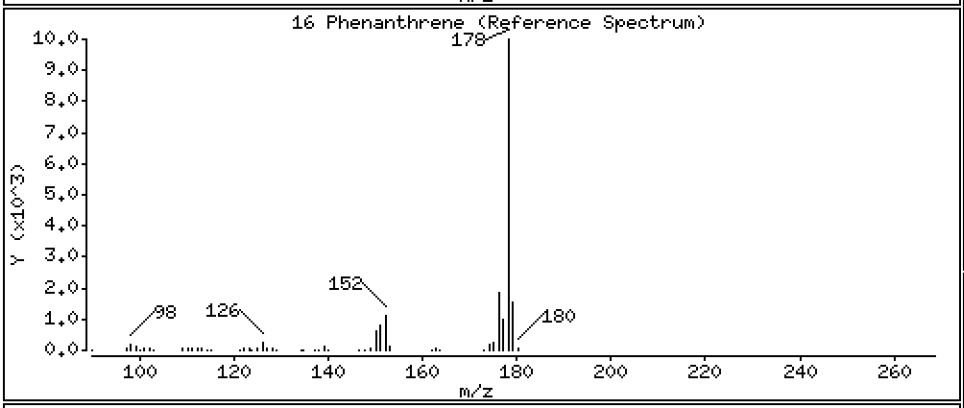
Concentration: 3.580 ug/mL

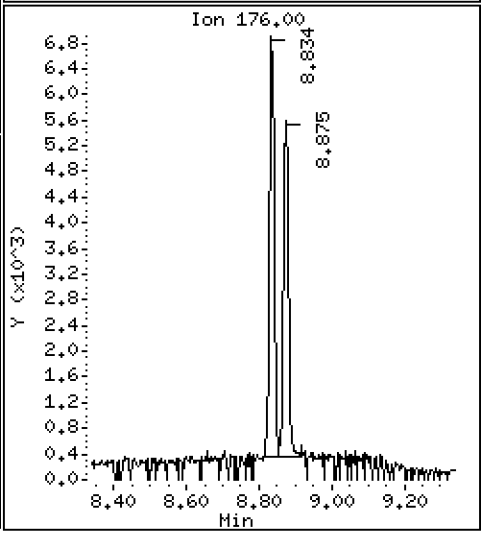


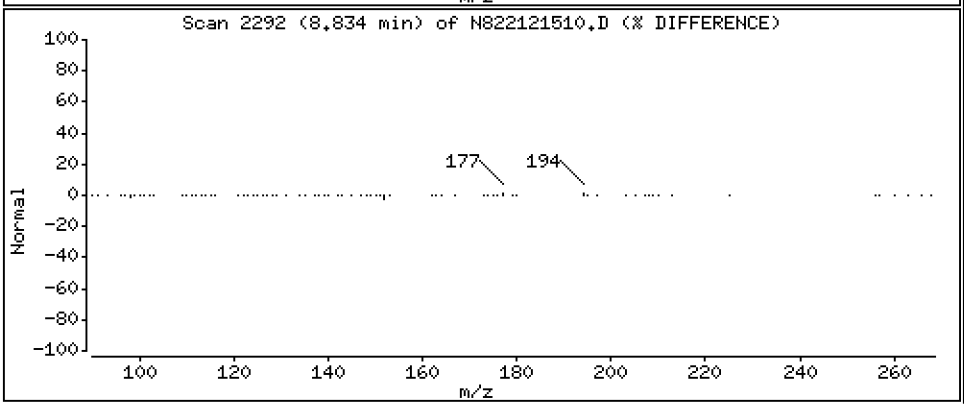












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Date : 15-DEC-2022 18:55

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MS1,3

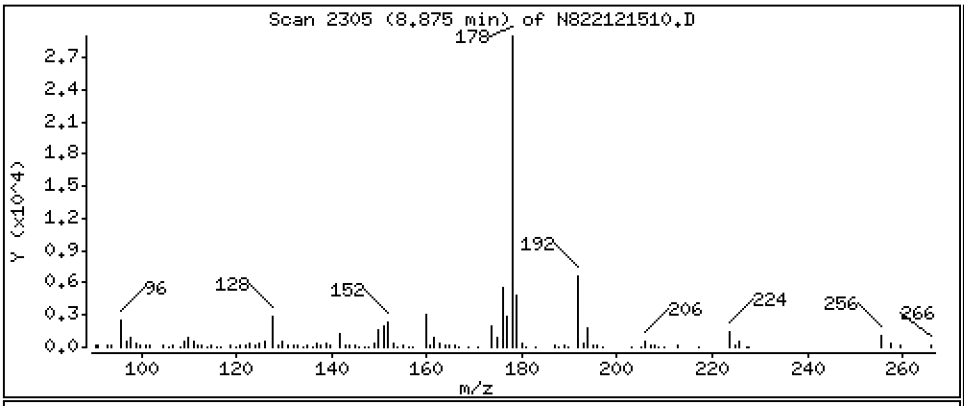
Operator: JZ

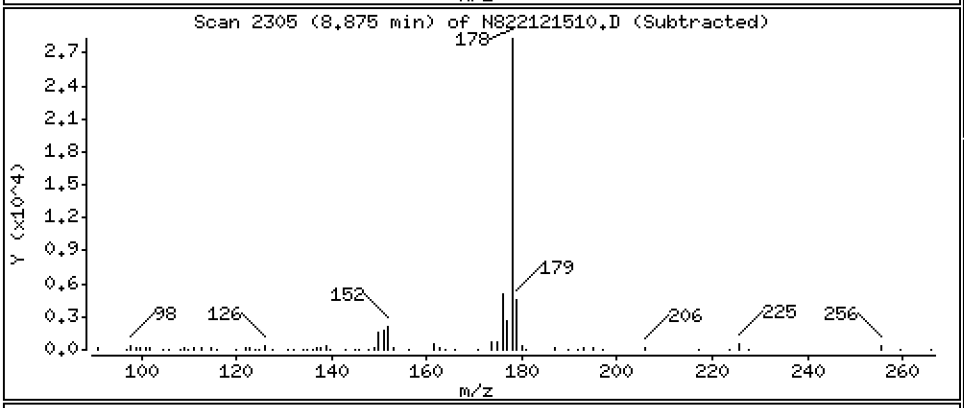
Column phase: Rxi-17sil

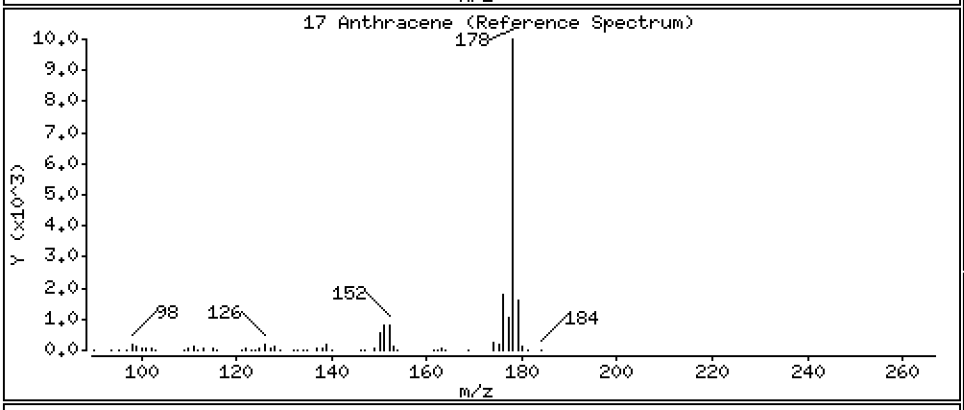
Column diameter: 0.25

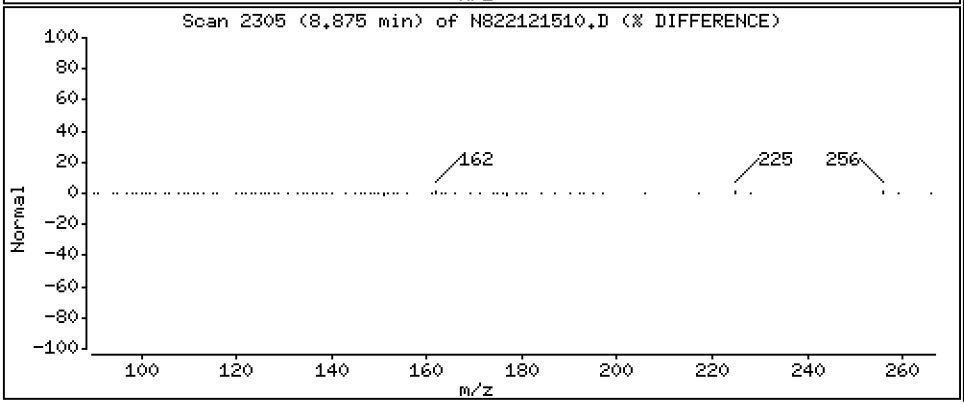
17 Anthracene

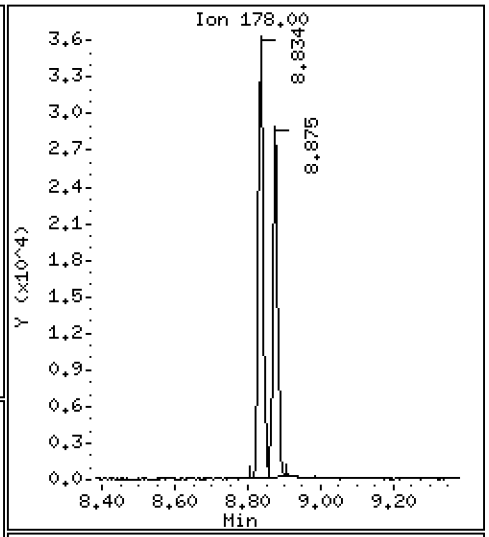
Concentration: 3.043 ug/mL

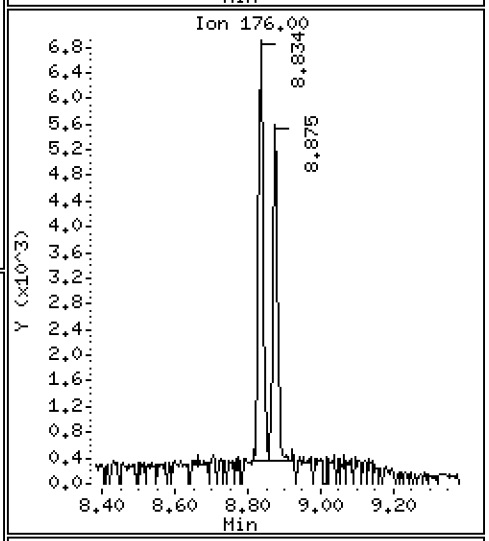


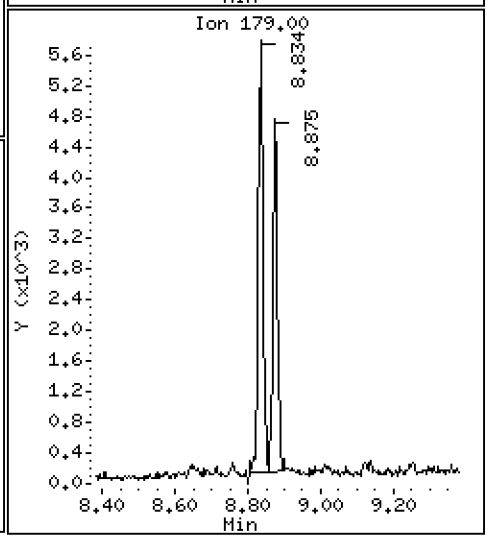












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Date : 15-DEC-2022 18:55

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MS1,3

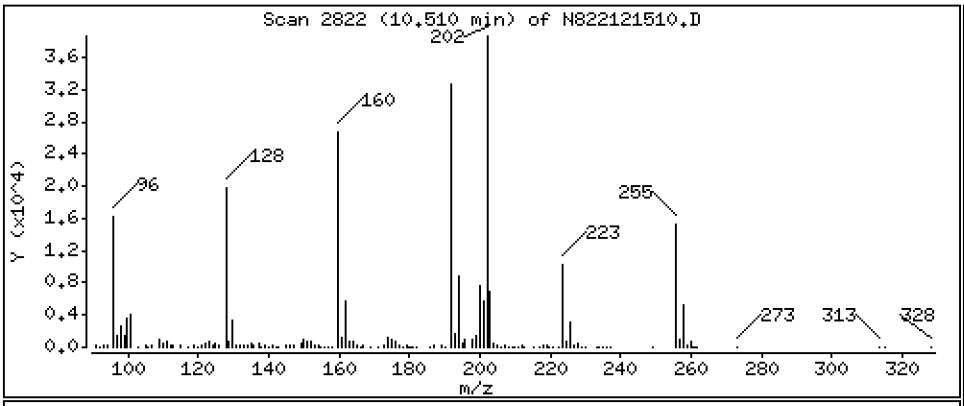
Operator: JZ

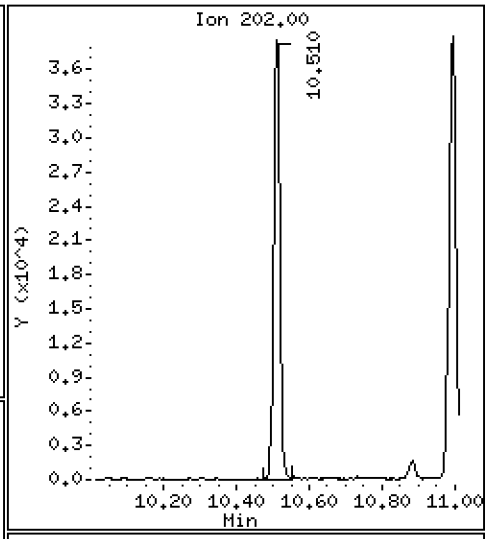
Column phase: Rxi-17sil

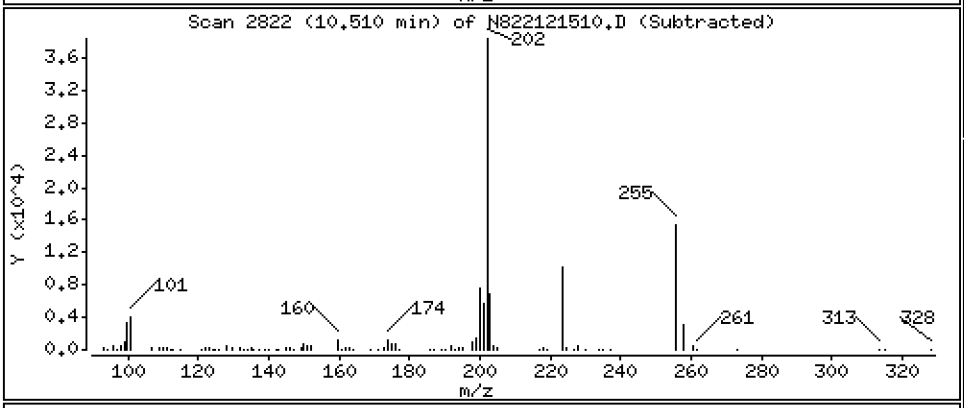
Column diameter: 0.25

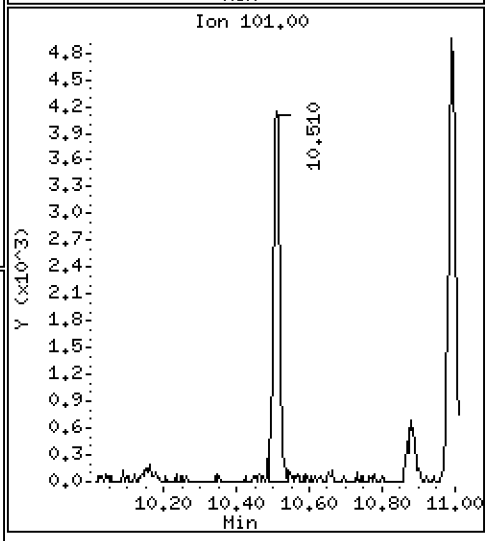
22 Fluoranthene

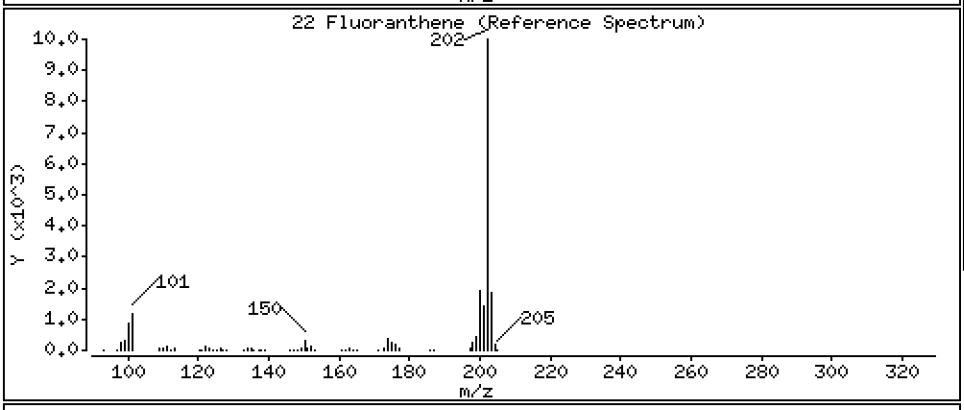
Concentration: 4.485 ug/mL

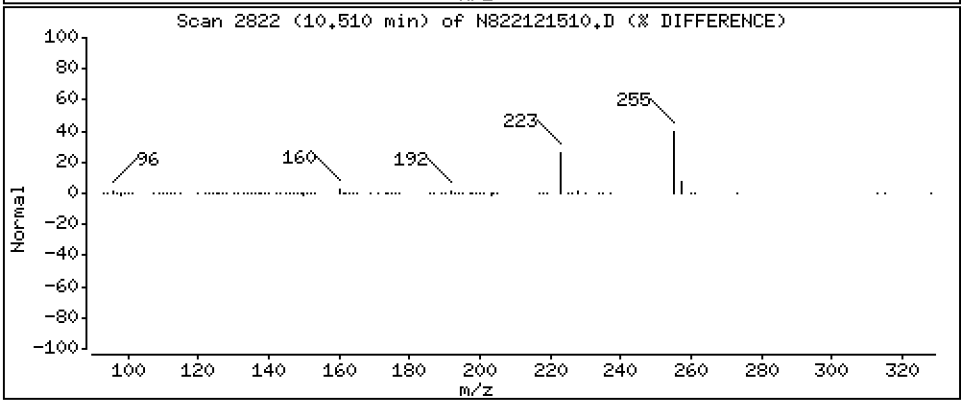












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Date : 15-DEC-2022 18:55

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MS1,3

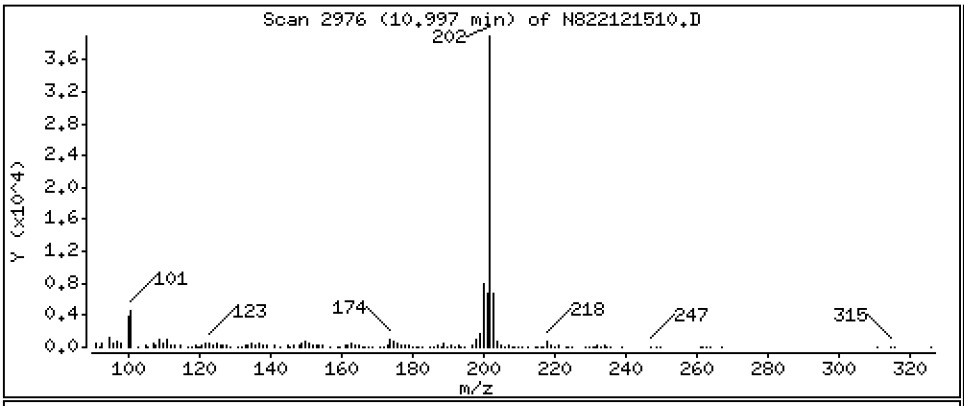
Operator: JZ

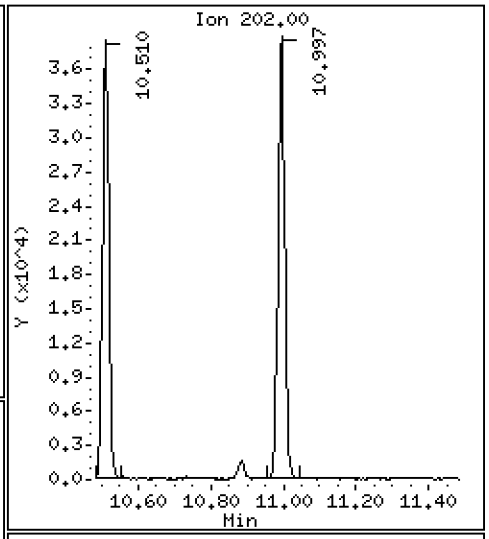
Column phase: Rxi-17sil

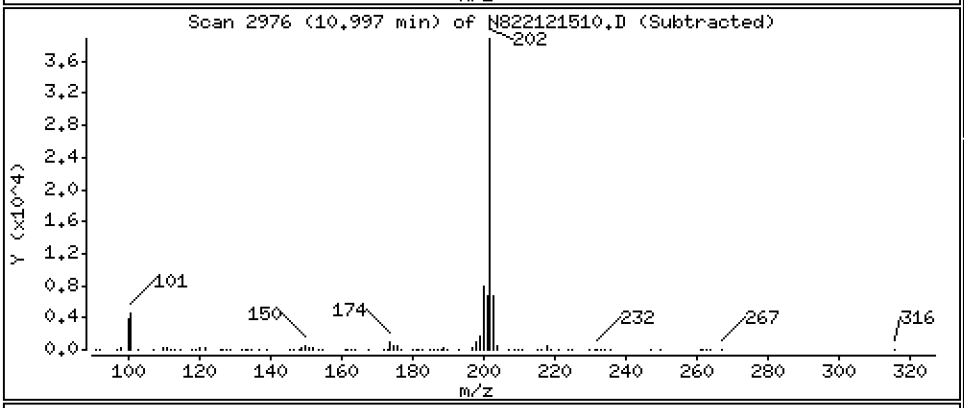
Column diameter: 0.25

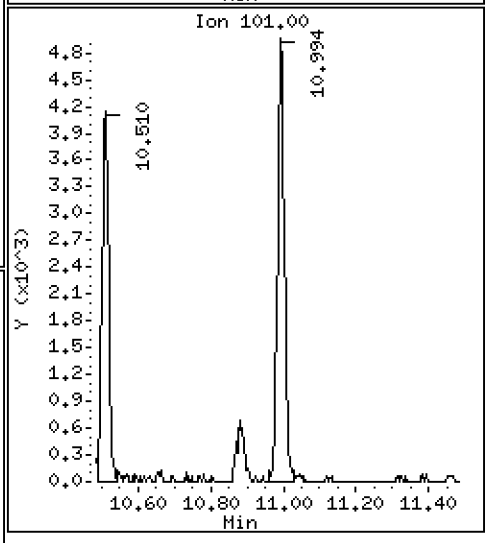
23 Pyrene

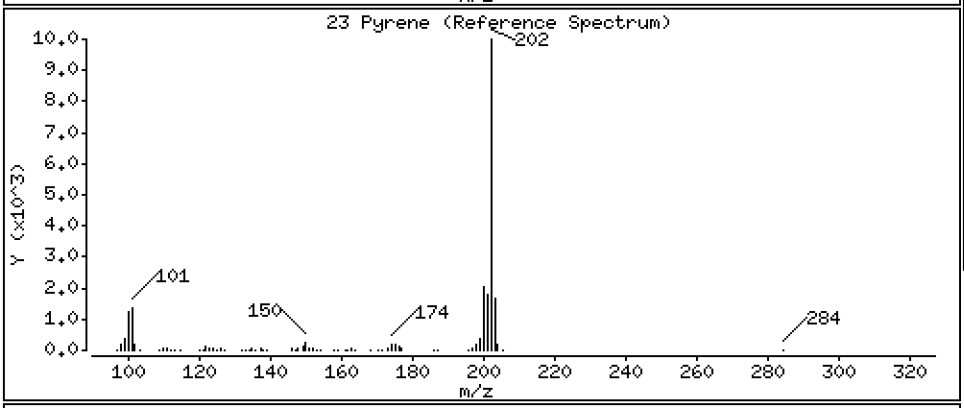
Concentration: 4.742 ug/mL

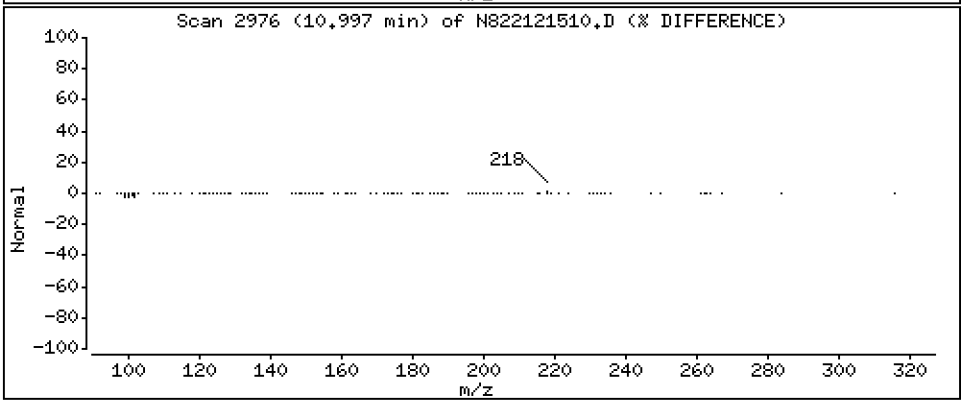












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121510.D

Date : 15-DEC-2022 18:55

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MS1,3

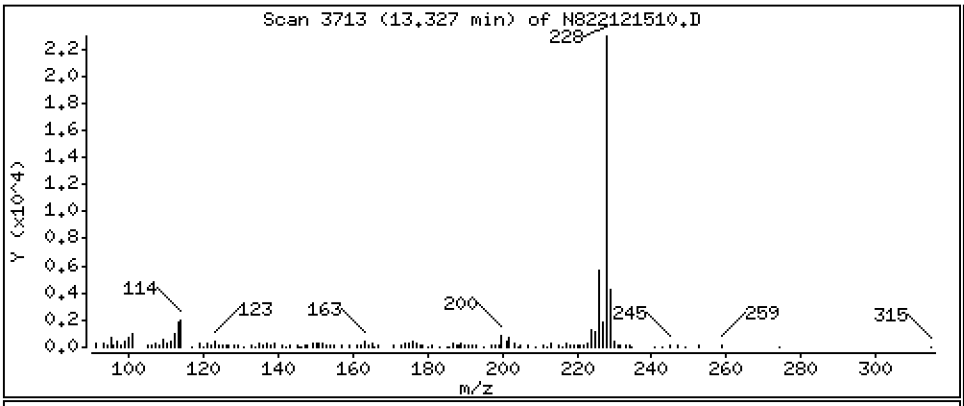
Operator: JZ

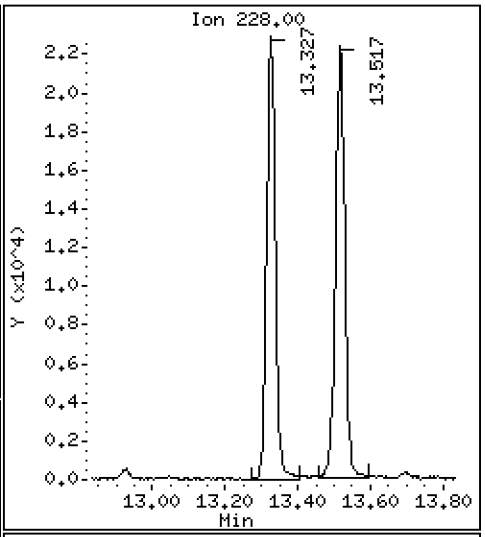
Column phase: Rxi-17sil

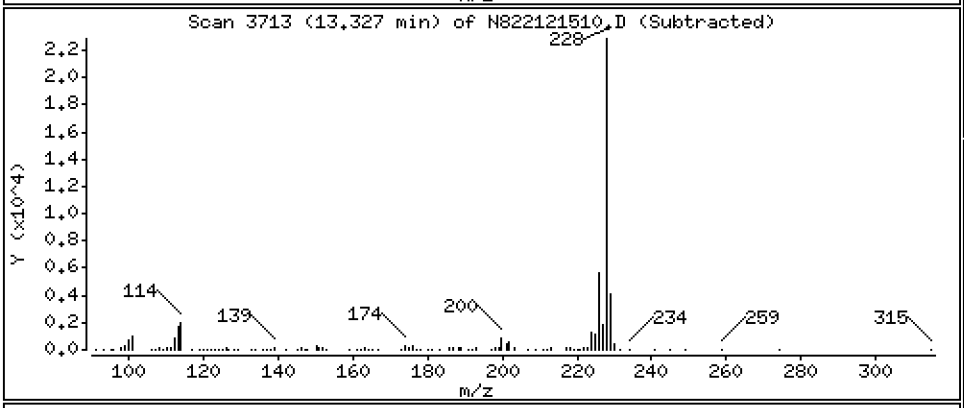
Column diameter: 0.25

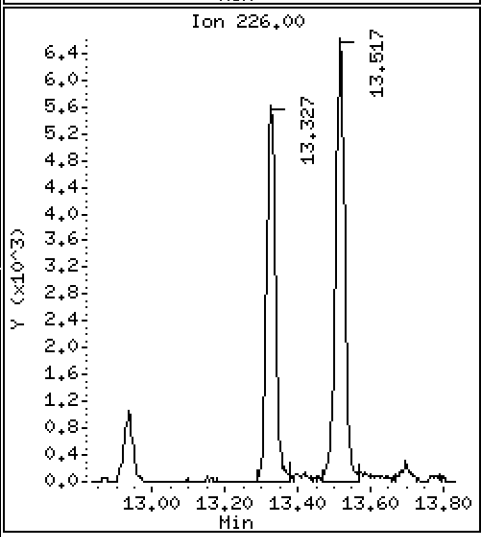
24 Benzo(a)anthracene

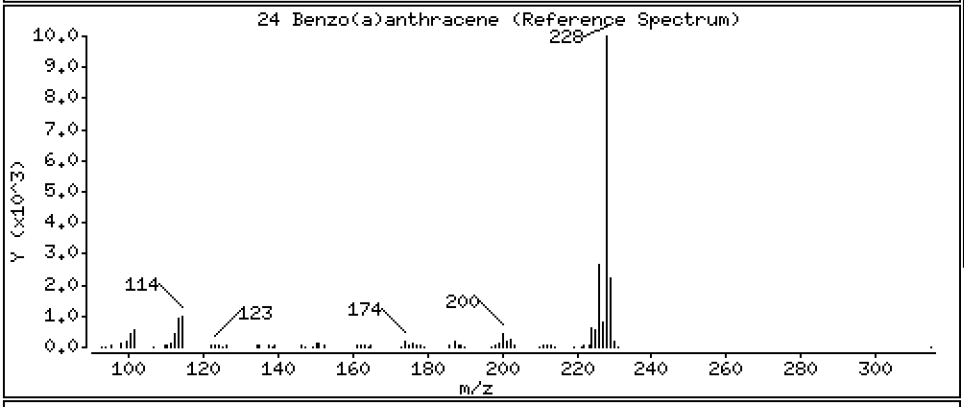
Concentration: 3.835 ug/mL

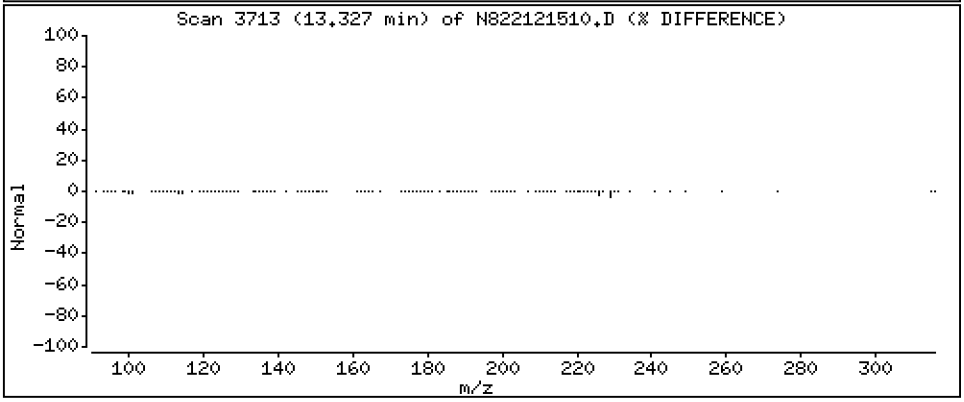












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121510.D

Date : 15-DEC-2022 18:55

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MS1,3

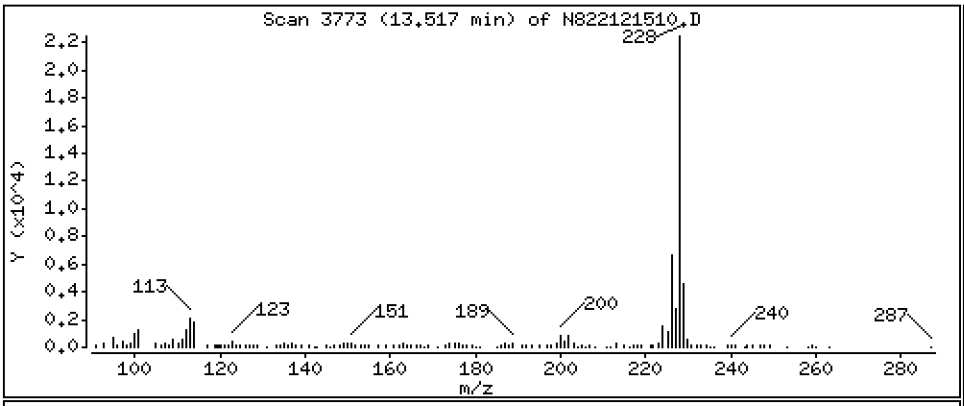
Operator: JZ

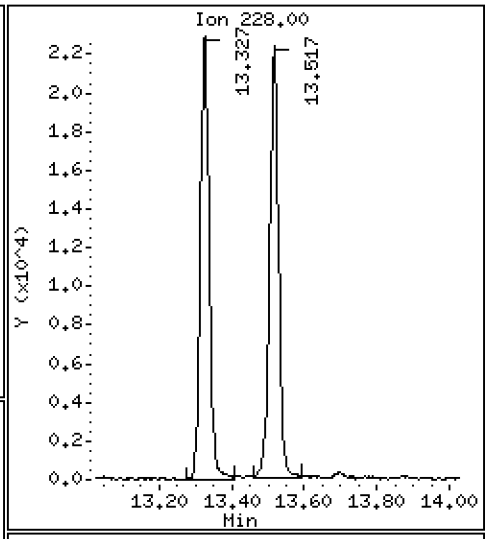
Column phase: Rxi-17sil

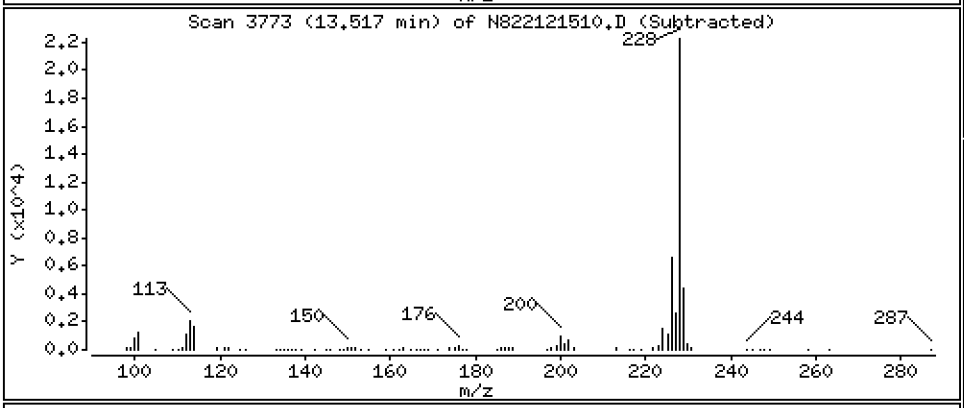
Column diameter: 0.25

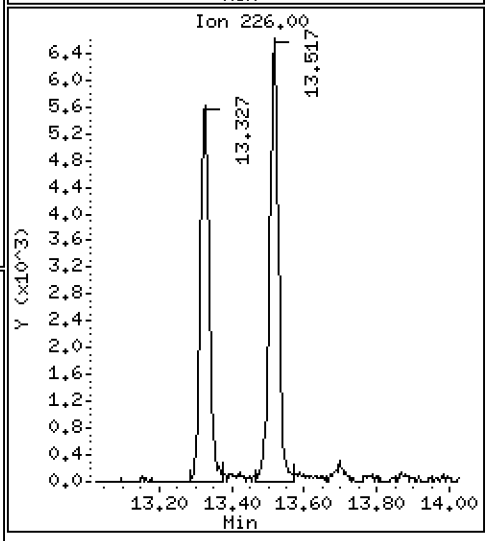
27 Chrysene

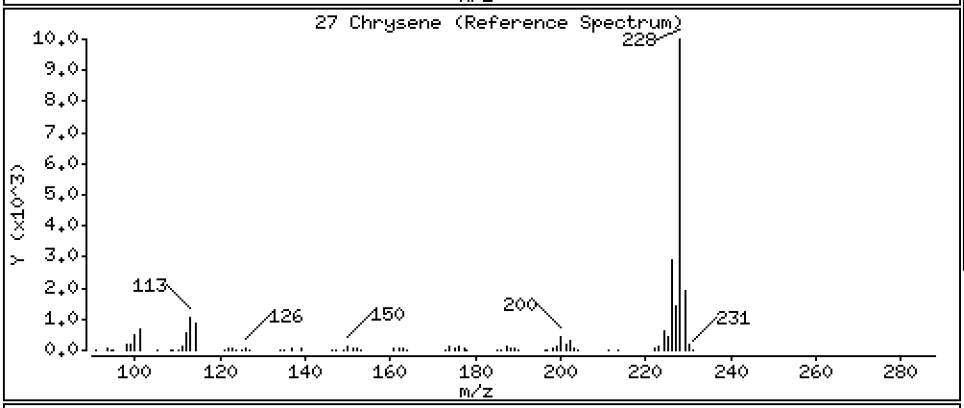
Concentration: 4.060 ug/mL

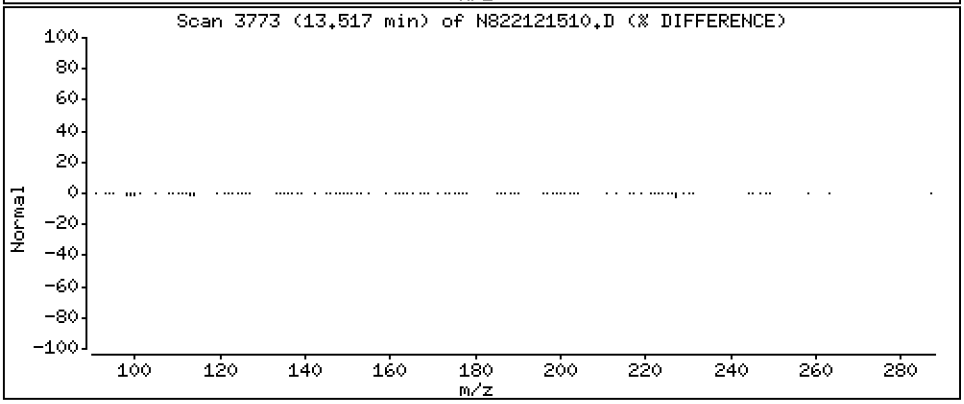












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121510.D

Date : 15-DEC-2022 18:55

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MS1,3

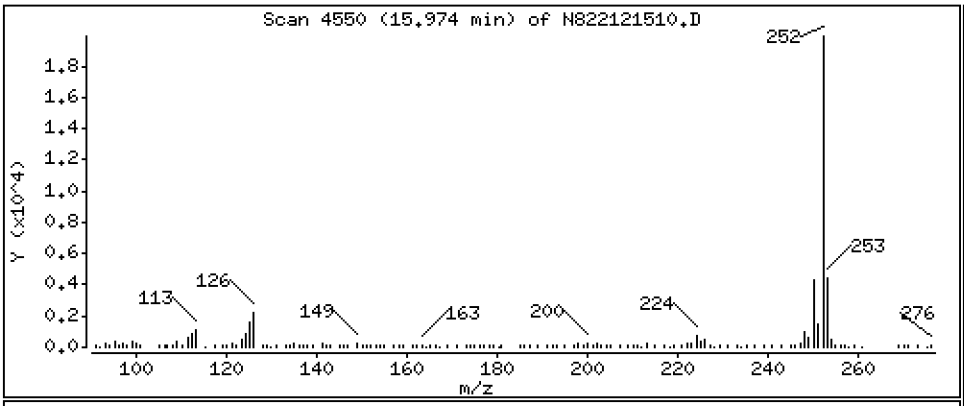
Operator: JZ

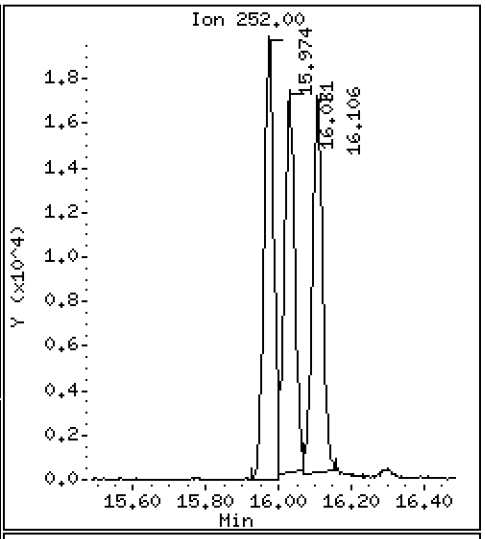
Column phase: Rxi-17sil

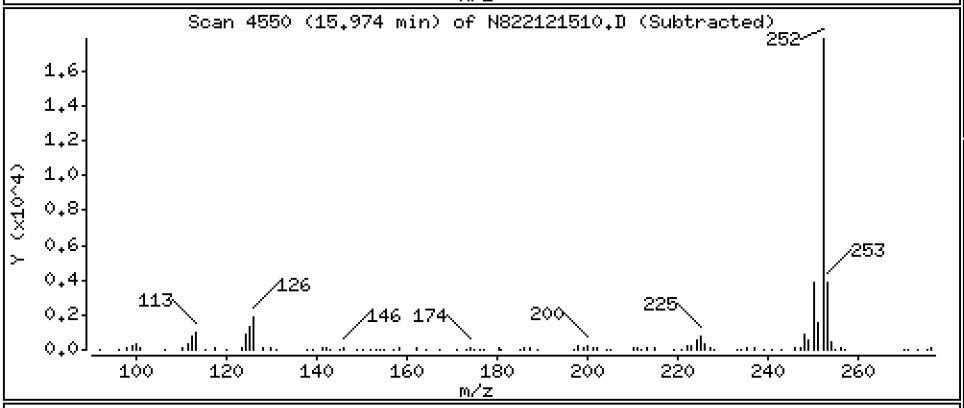
Column diameter: 0.25

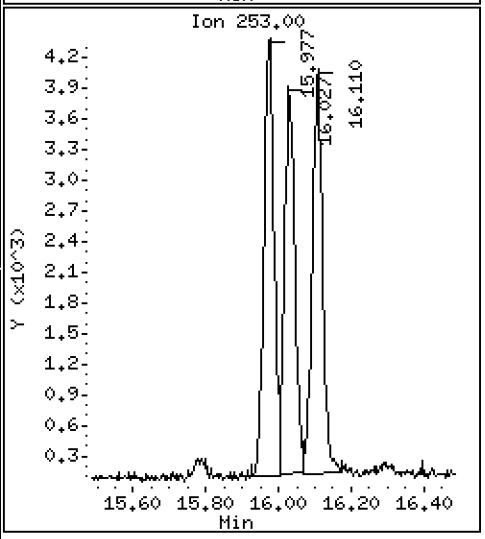
28 Benzo(b)fluoranthene

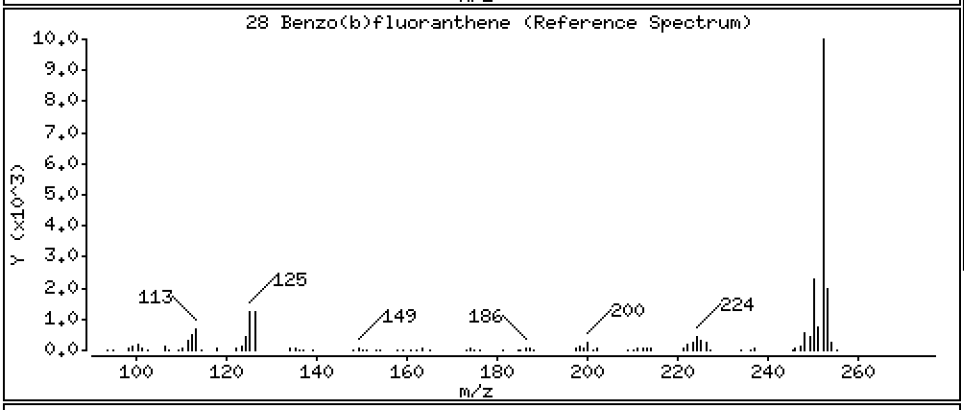
Concentration: 3.183 ug/mL

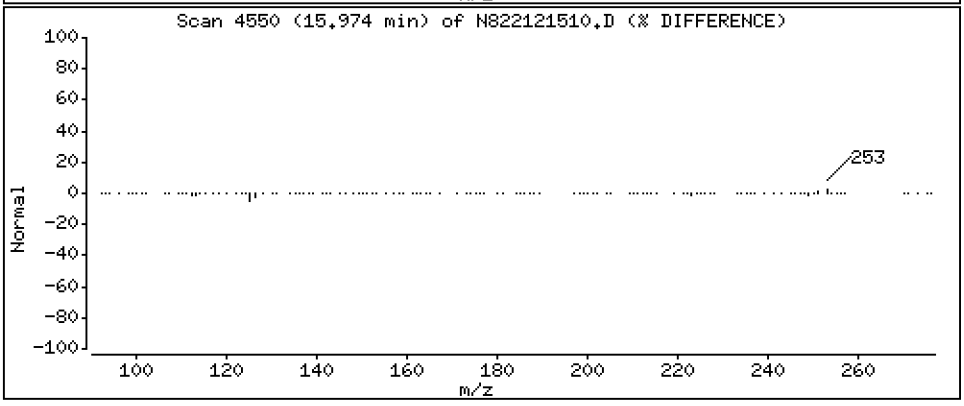












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121510.D

Date : 15-DEC-2022 18:55

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MS1,3

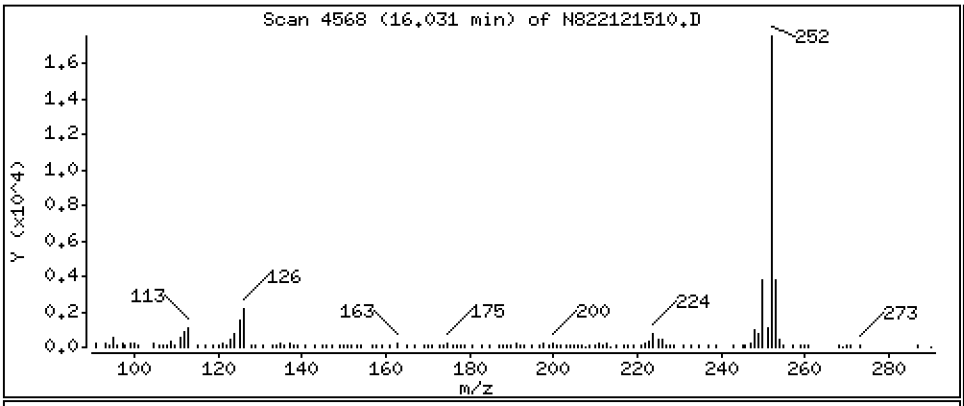
Operator: JZ

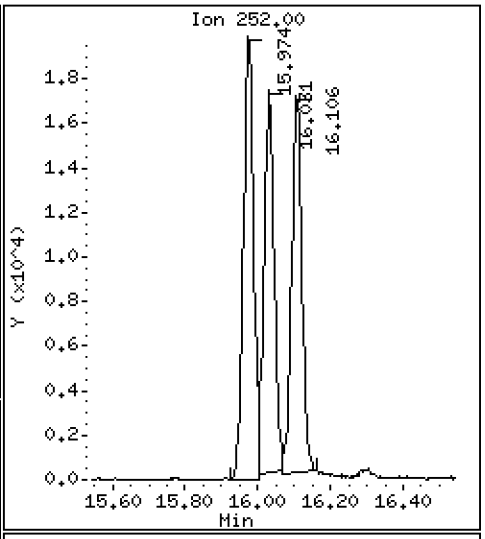
Column phase: Rxi-17sil

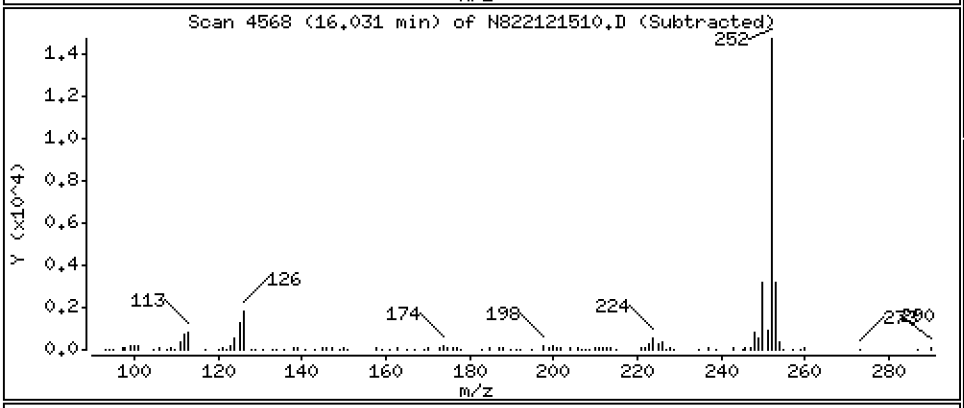
Column diameter: 0.25

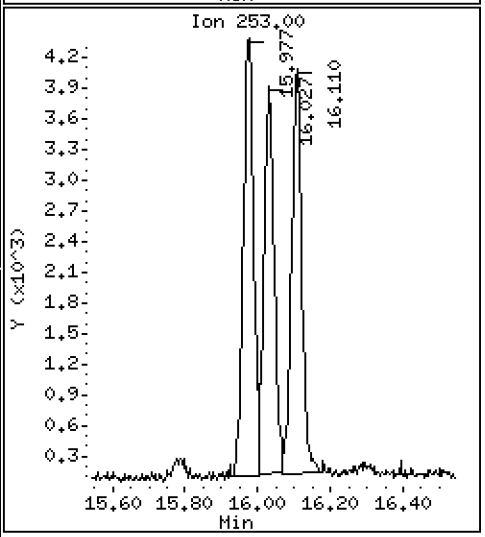
29 Benzo(k)fluoranthene

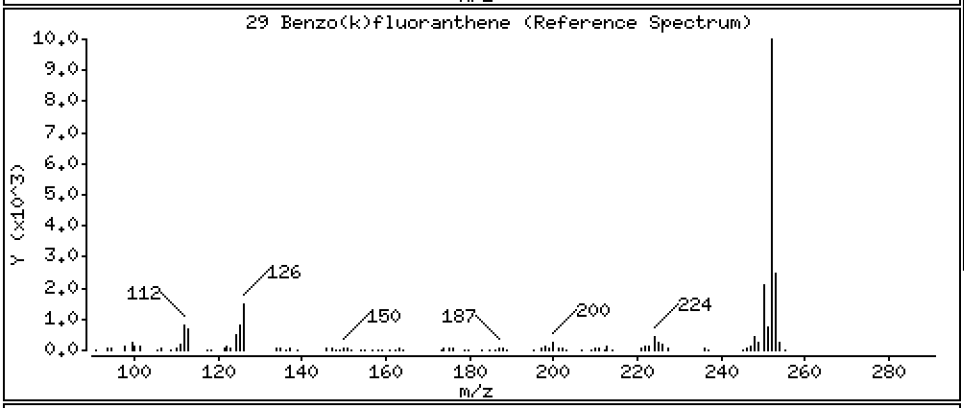
Concentration: 3.043 ug/mL

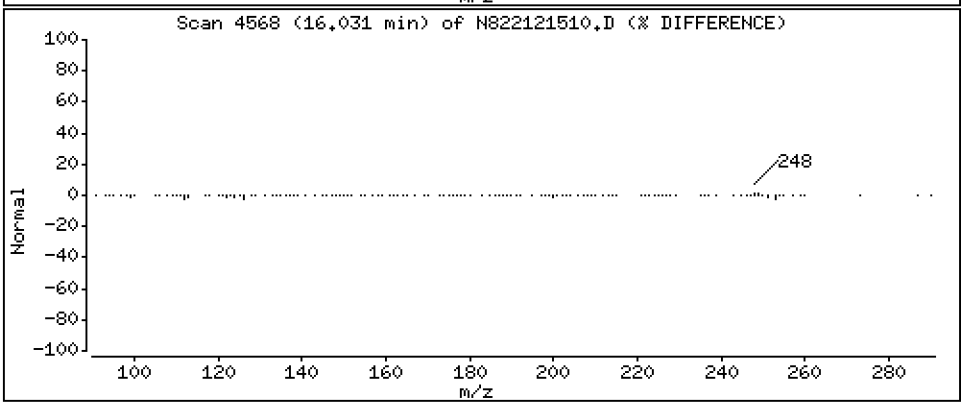












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121510.D

Date : 15-DEC-2022 18:55

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MS1,3

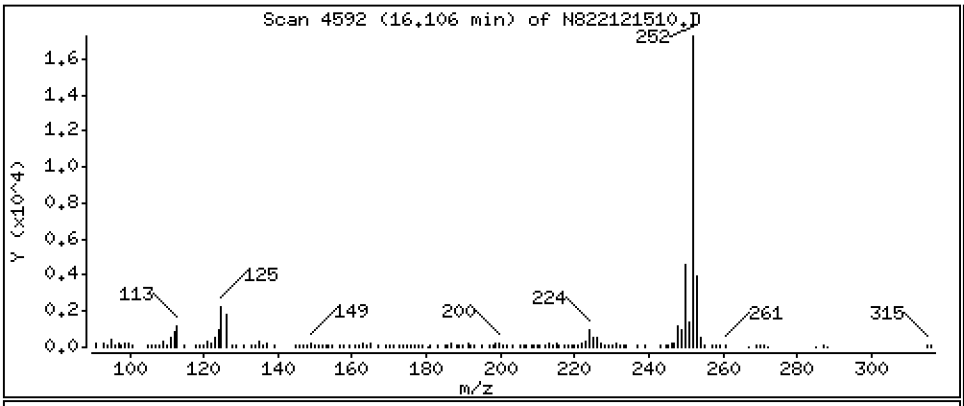
Operator: JZ

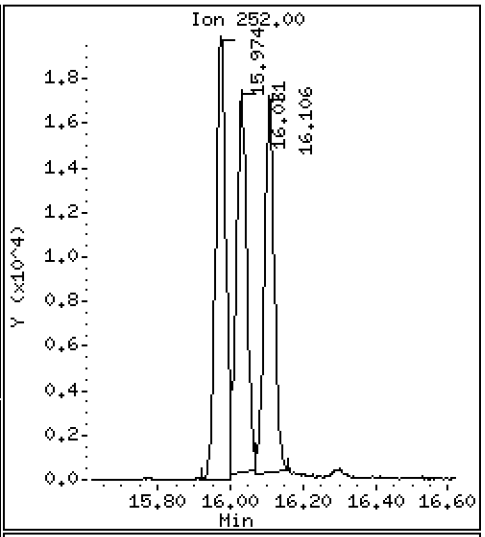
Column phase: Rxi-17sil

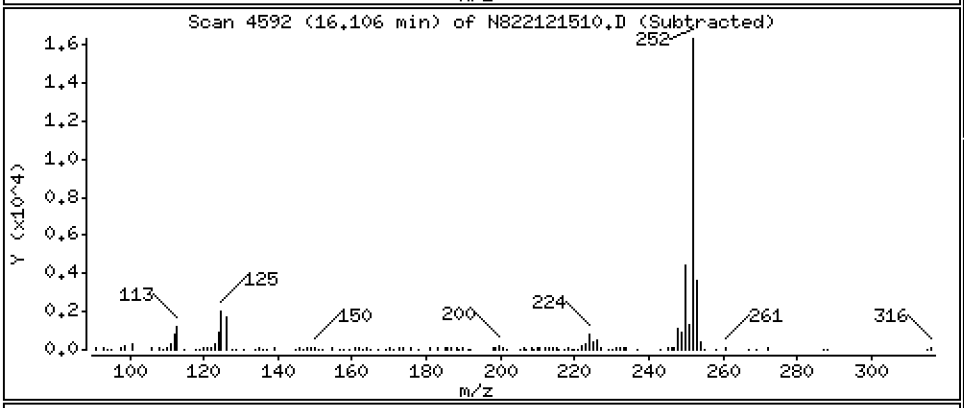
Column diameter: 0.25

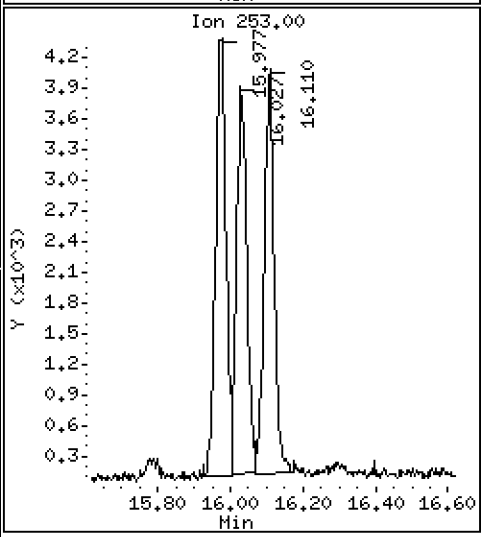
30 Benzo(j)fluoranthene

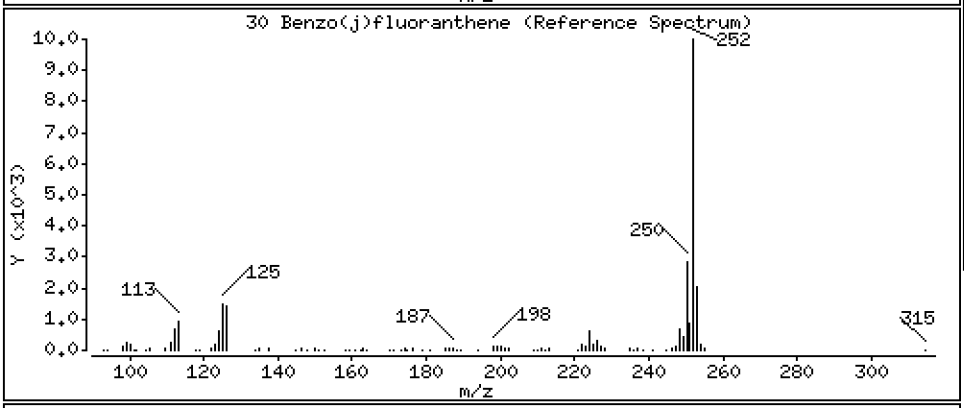
Concentration: 3.207 ug/mL

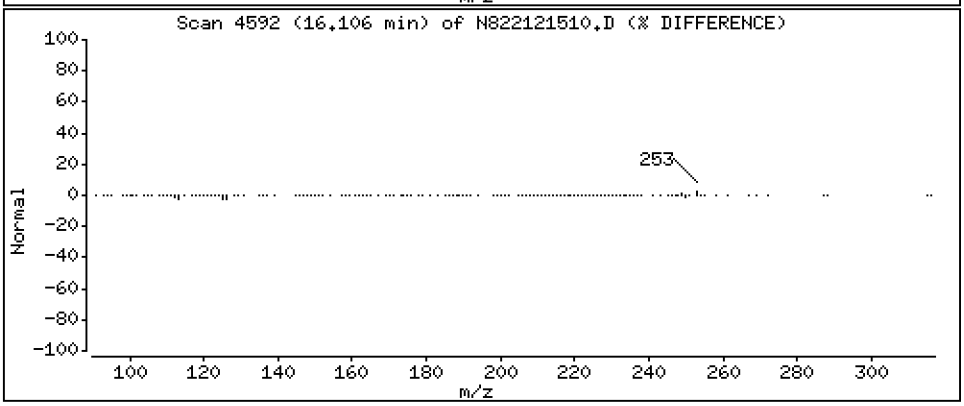












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121510.D

Date : 15-DEC-2022 18:55

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MS1,3

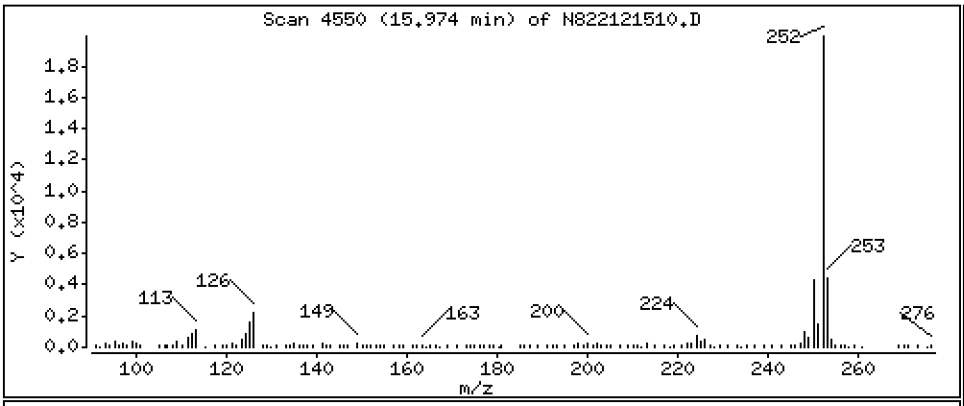
Operator: JZ

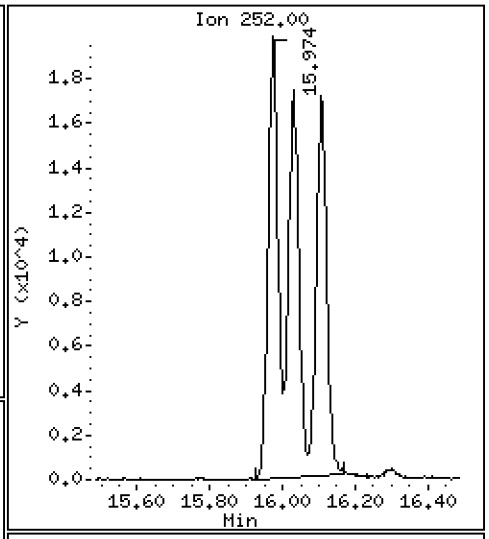
Column phase: Rxi-17sil

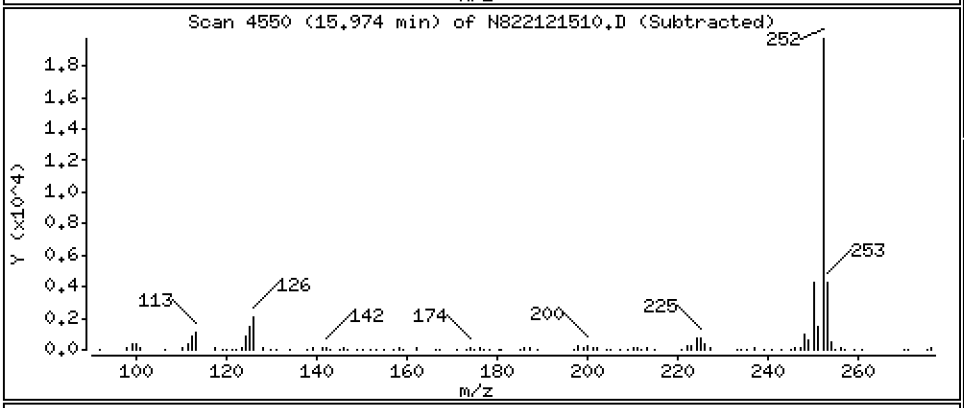
Column diameter: 0.25

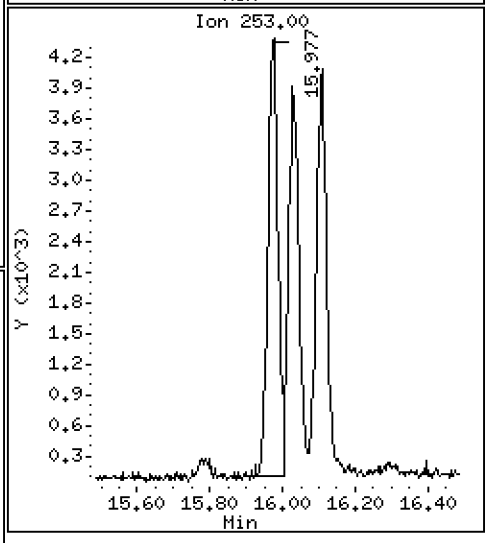
31 Total Benzofluoranthenes

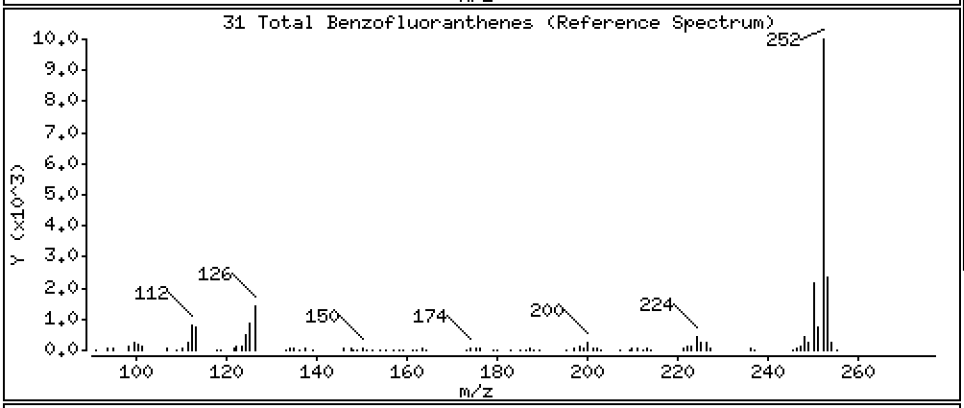
Concentration: 9.495 ug/mL

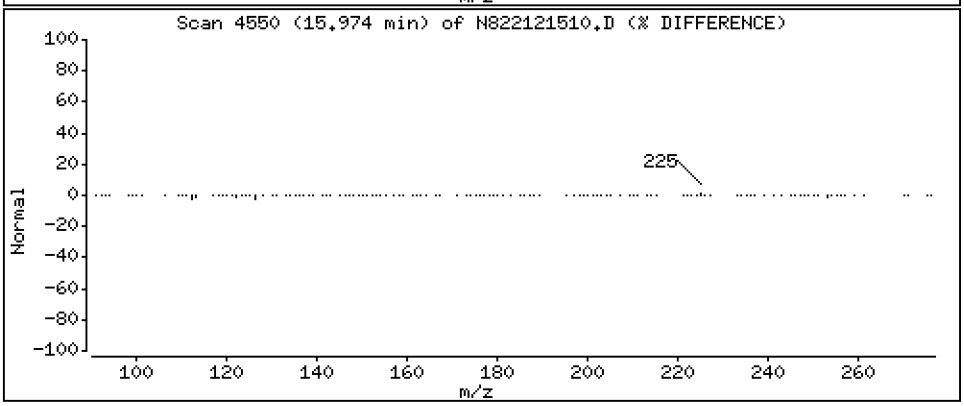












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121510.D

Date : 15-DEC-2022 18:55

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MS1,3

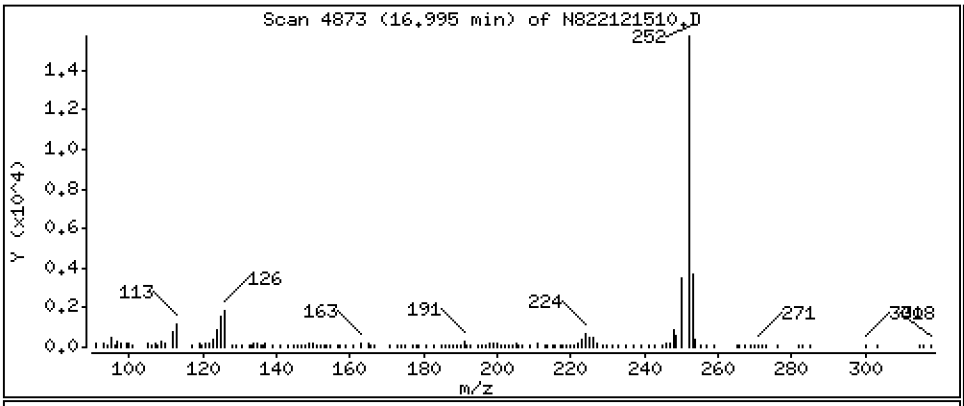
Operator: JZ

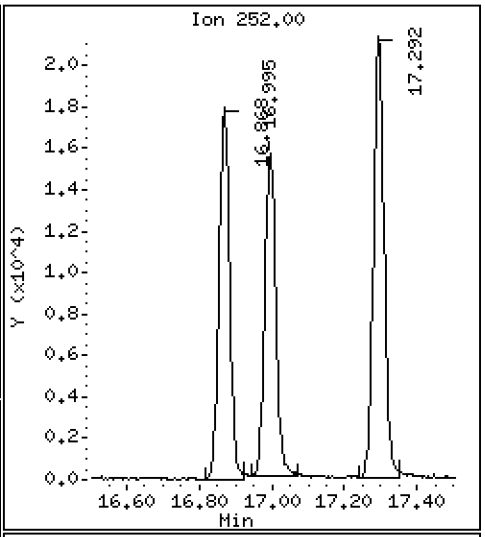
Column phase: Rxi-17sil

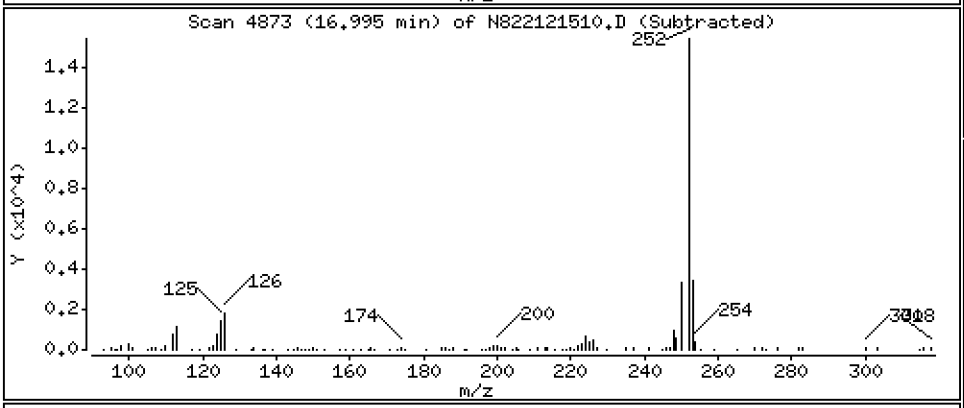
Column diameter: 0.25

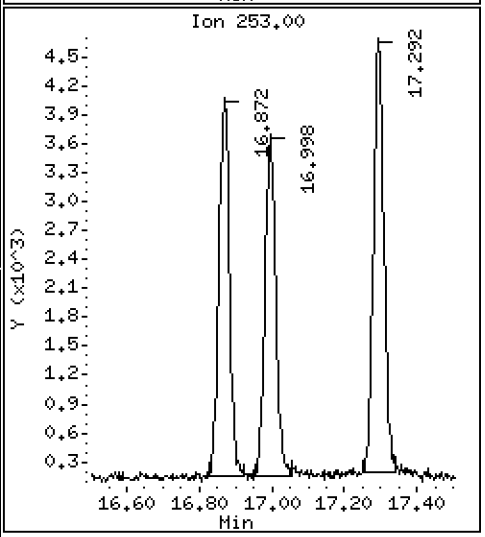
32 Benzo(a)pyrene

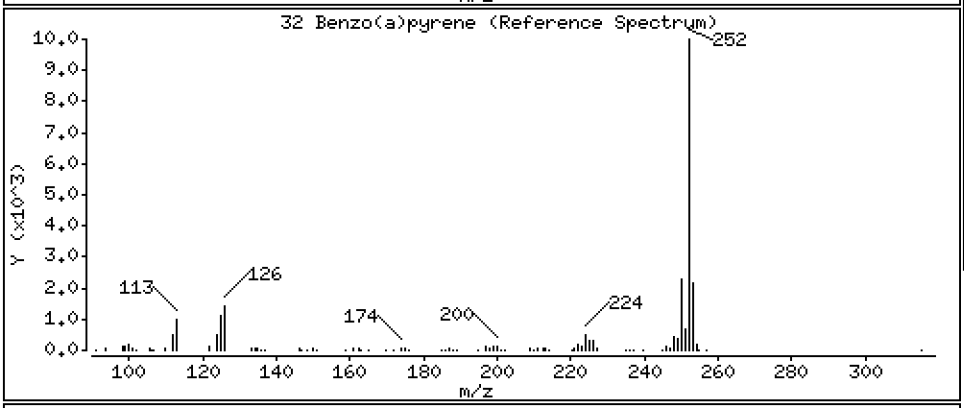
Concentration: 3.356 ug/mL

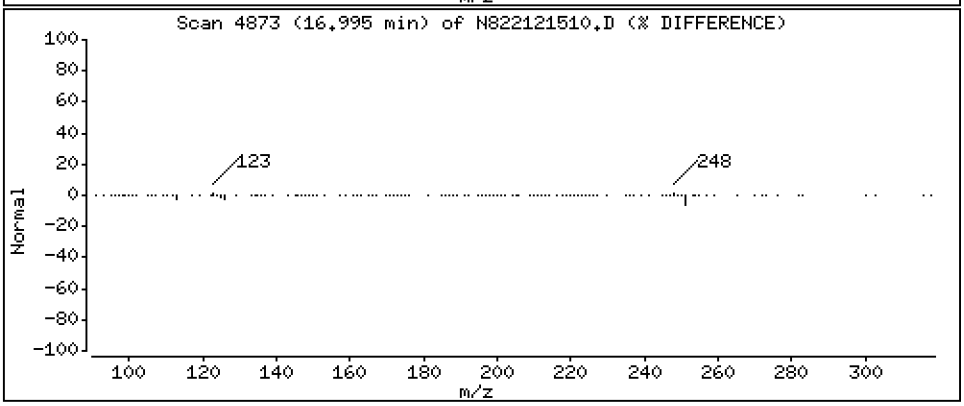












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121510.D

Date : 15-DEC-2022 18:55

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MS1,3

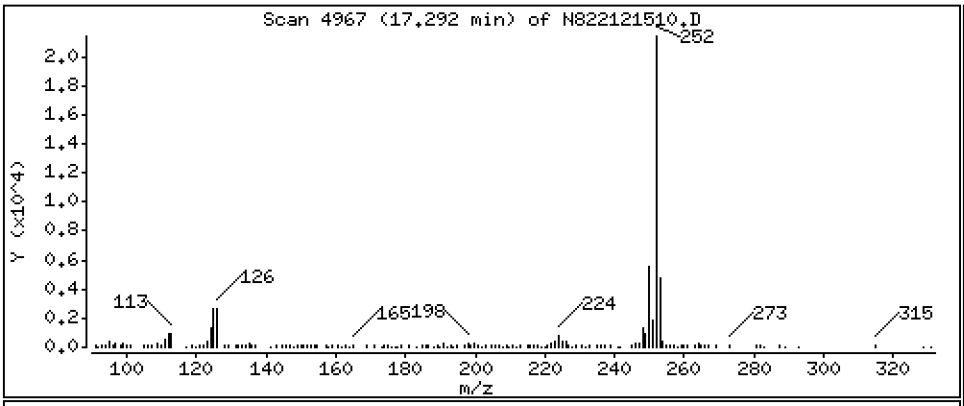
Operator: JZ

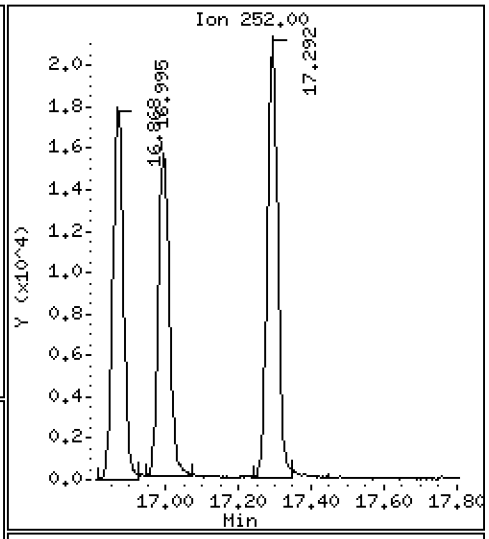
Column phase: Rxi-17sil

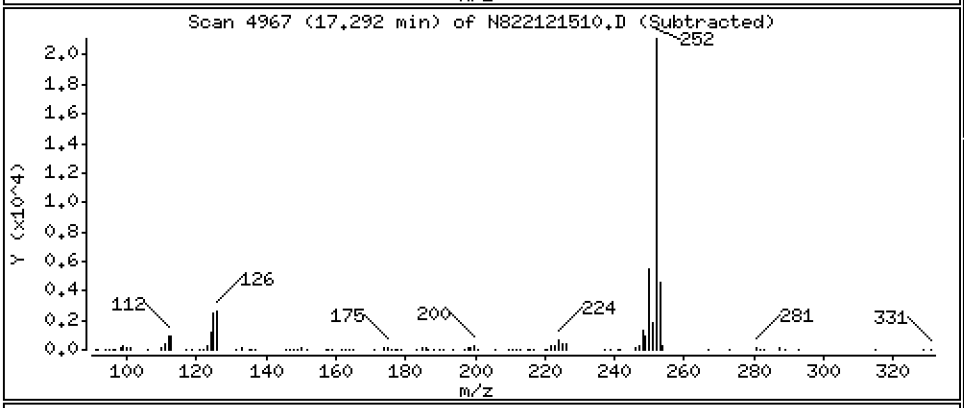
Column diameter: 0.25

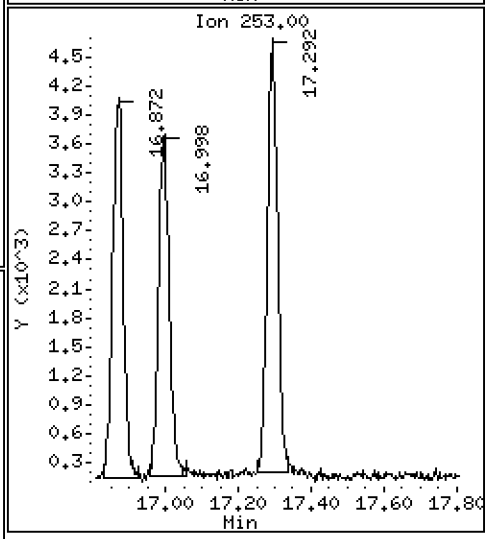
35 Perylene

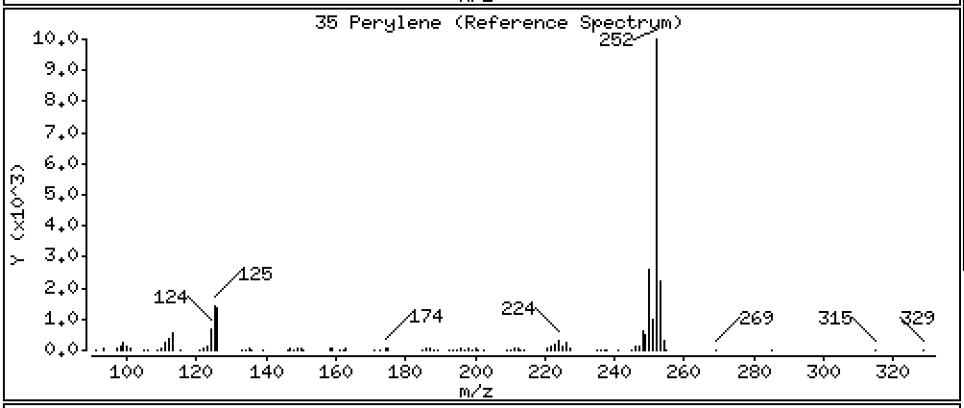
Concentration: 4.211 ug/mL

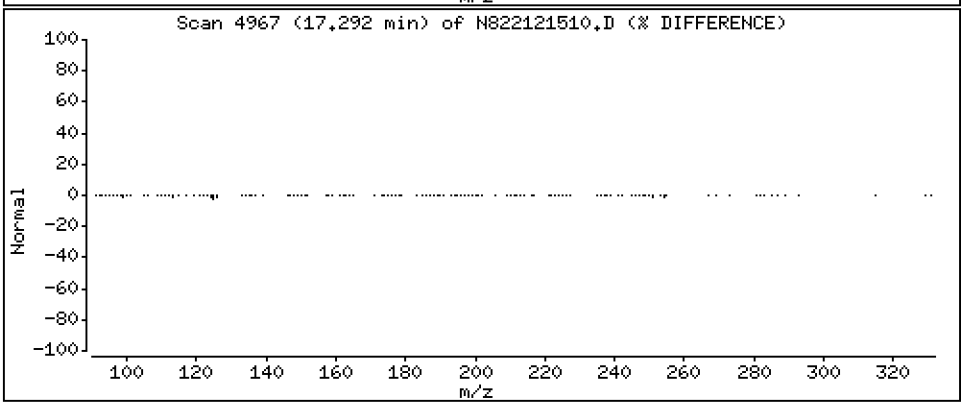












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121510.D

Date : 15-DEC-2022 18:55

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MS1,3

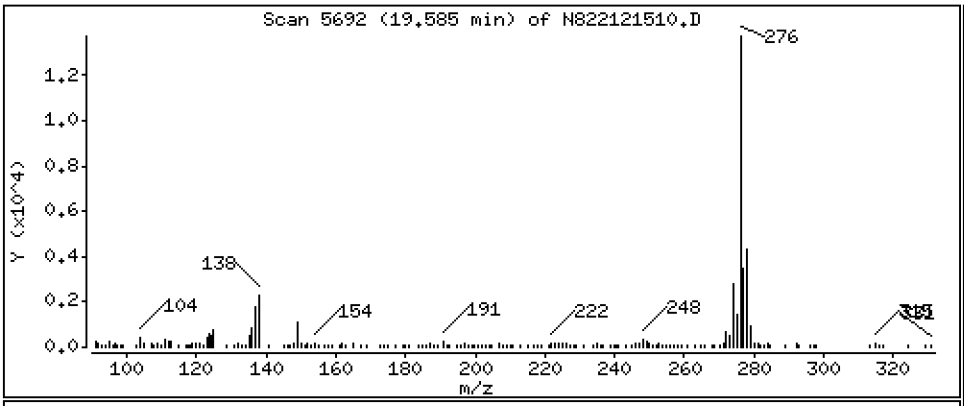
Operator: JZ

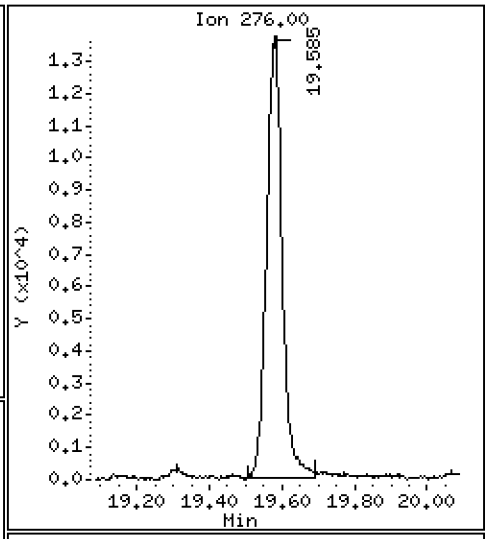
Column phase: Rxi-17sil

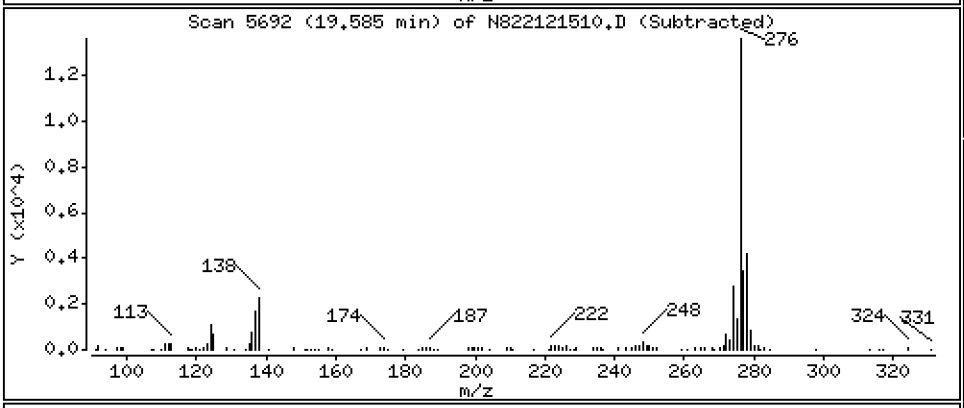
Column diameter: 0.25

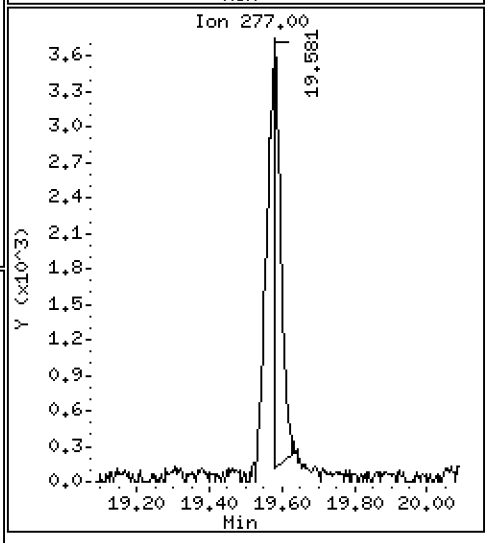
37 Indeno(1,2,3-cd)pyrene

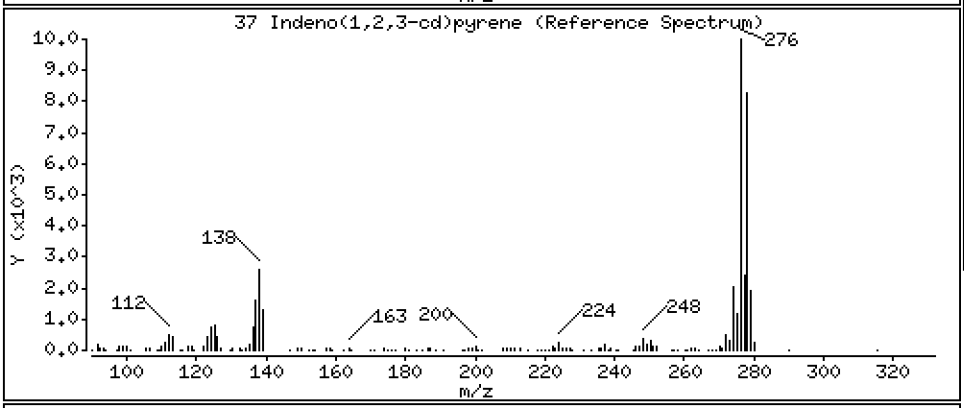
Concentration: 4.210 ug/mL

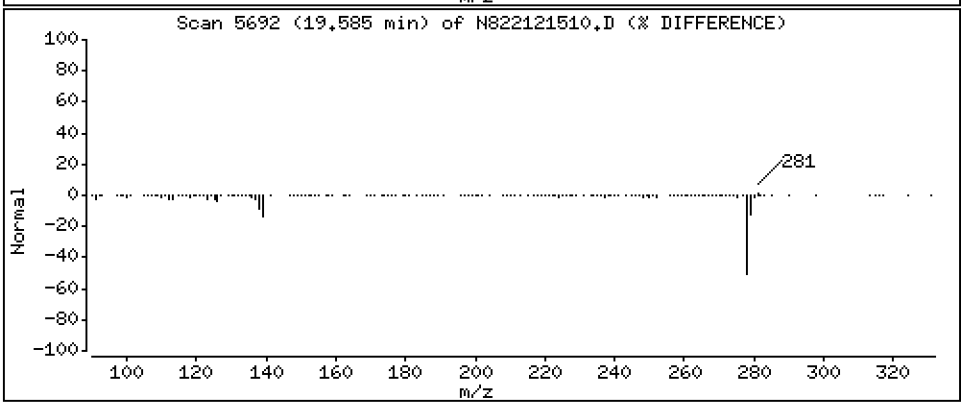












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Date : 15-DEC-2022 18:55

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MS1,3

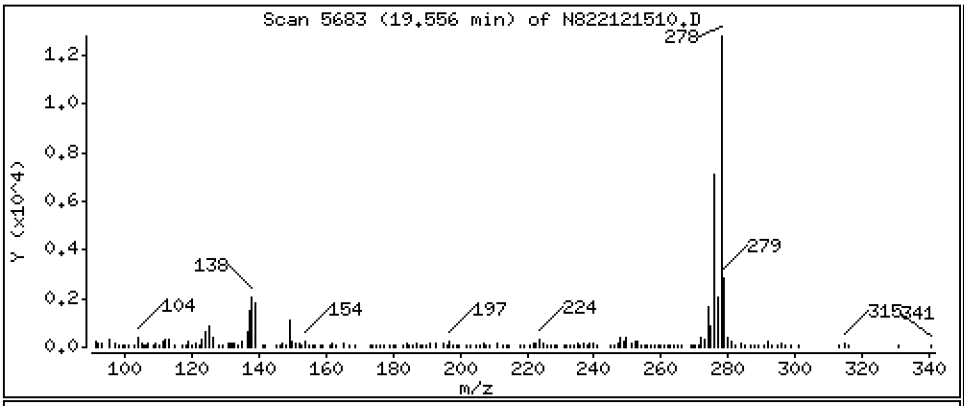
Operator: JZ

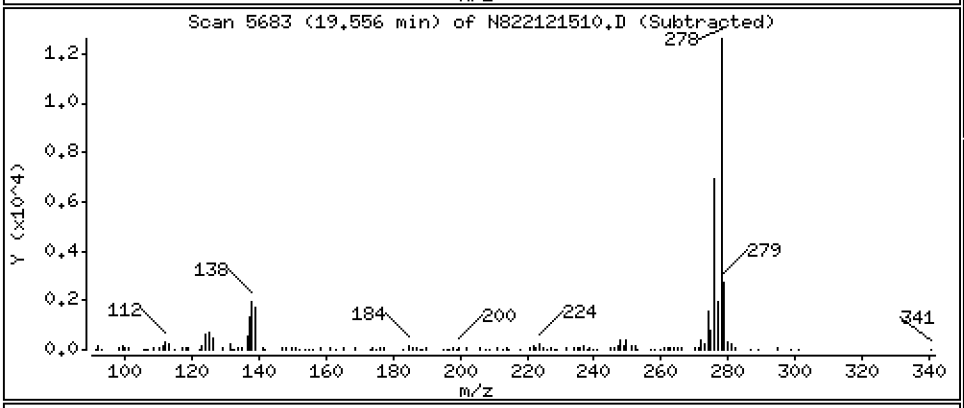
Column phase: Rxi-17sil

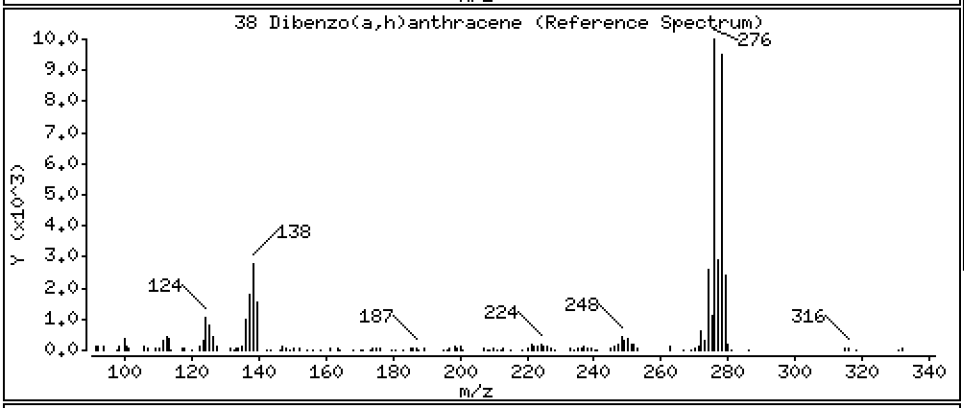
Column diameter: 0.25

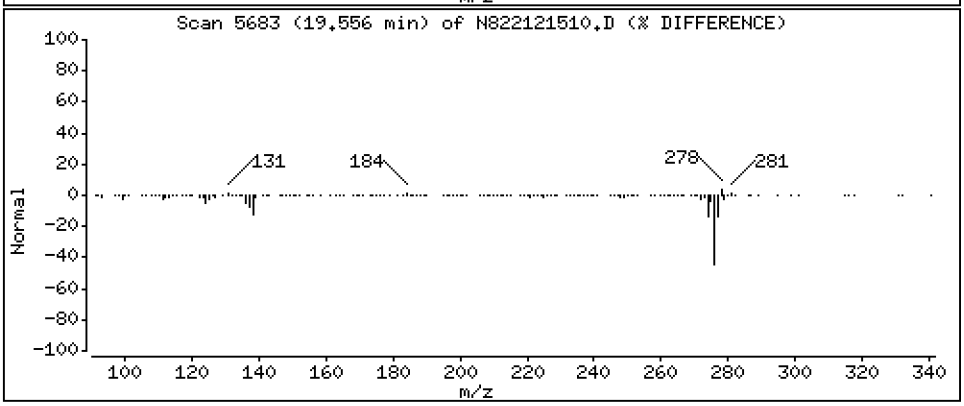
38 Dibenzo(a,h)anthracene

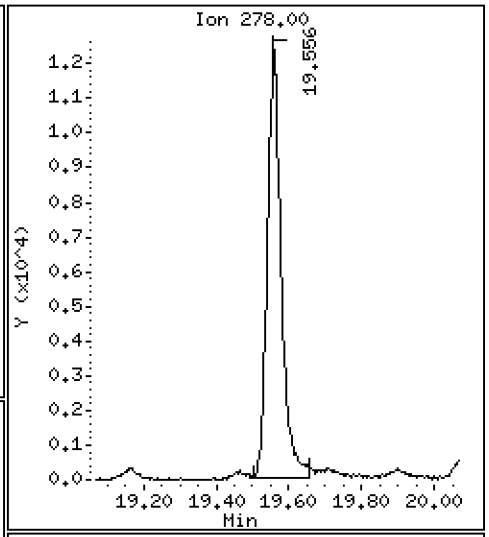
Concentration: 3.919 ug/mL

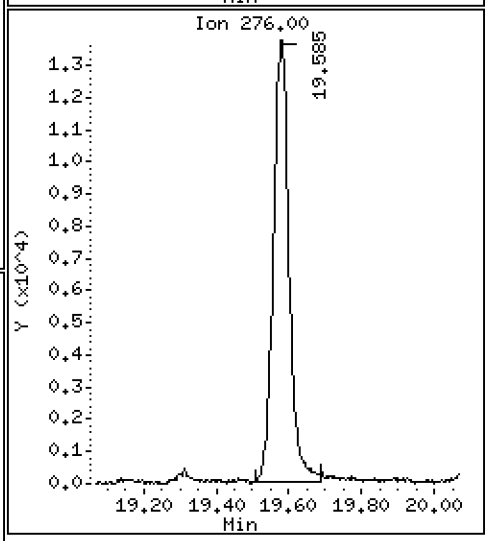












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121510.D

Date : 15-DEC-2022 18:55

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MS1,3

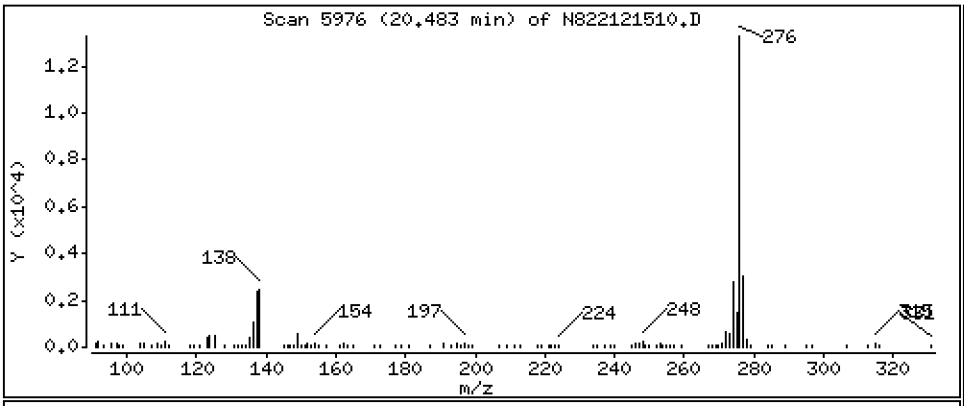
Operator: JZ

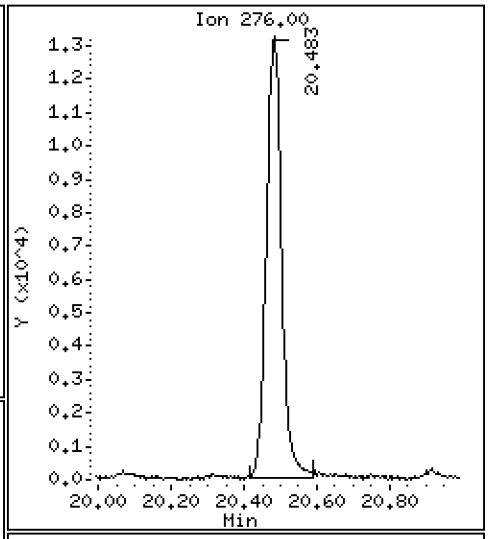
Column phase: Rxi-17sil

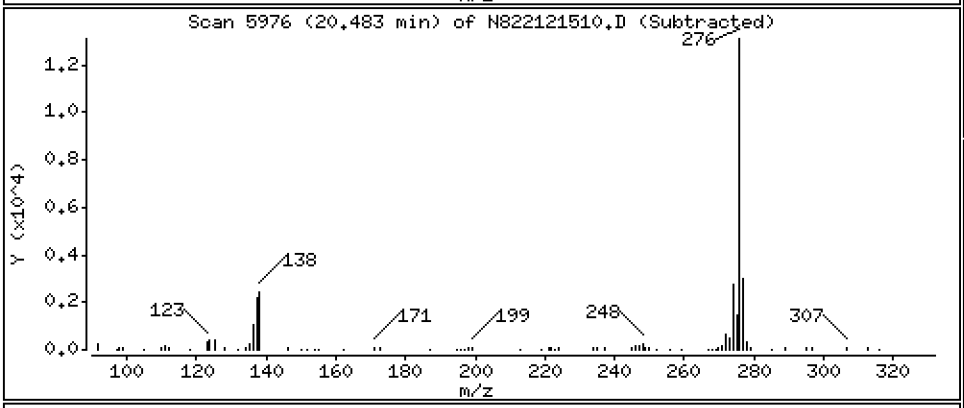
Column diameter: 0.25

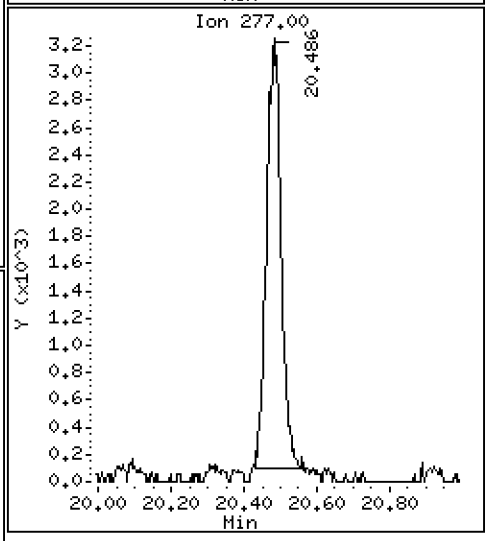
39 Benzo(g,h,i)perylene

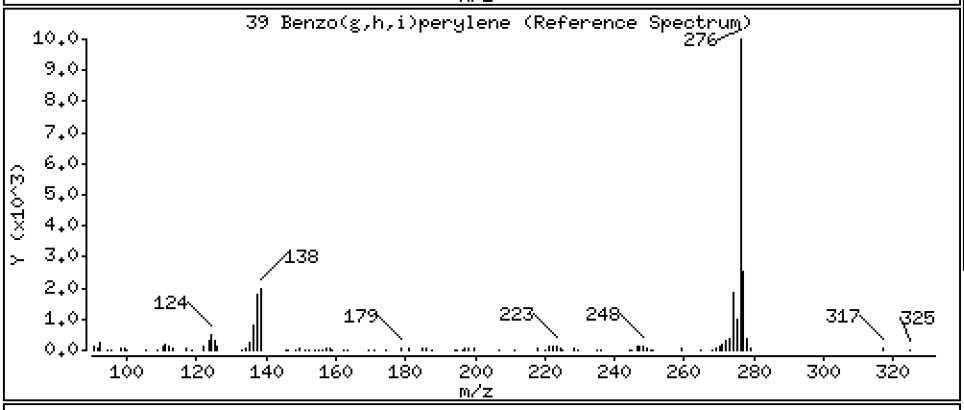
Concentration: 4.234 ug/mL

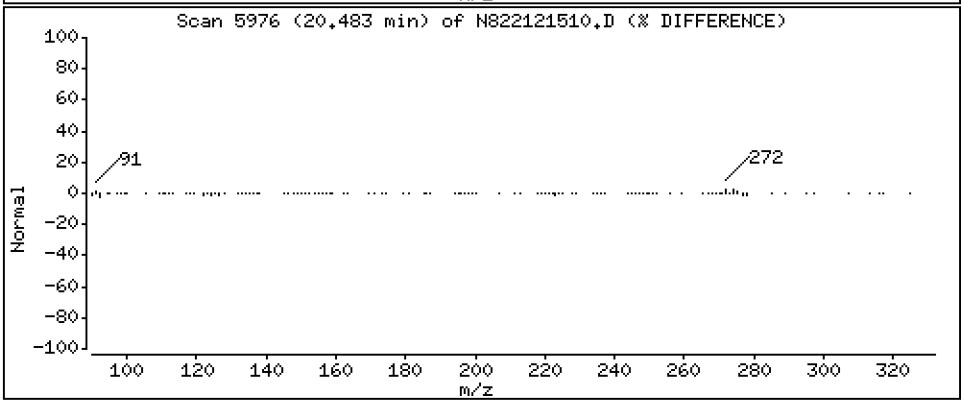












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20221215.b\N822121510.D
Lab Smp Id: BKL0196-MS1
Inj Date : 15-DEC-2022 18:55
Operator : JZ Inst ID: nt8.i
Smp Info : BKL0196-MS1,3
Misc Info : 22-
Comment   : 1ul Injection
Method   : \\target\share\chem3\nt8.i\20221215.b\FSIMPNA220411.m
Meth Date : 16-Dec-2022 15:49 jianqing Quant Type: ISTD
Cal Date : 12-APR-2022 15:49 Cal File: NT822041208.D
Als bottle: 10
Dil Factor: 3.00000
Integrator: HP RTE Compound Sublist: PNAXMDL.sub
Target Version: 4.14
Processing Host: JIANQING-202105

								CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)	
*	1 Naphthalene-d8	136	4.511	4.521	(1.000)	45710	2.00000		
	2 Naphthalene	128	4.543	4.549	(1.007)	18841	0.81347	2.440	
$	3 2-Methylnaphthalene-d10	152	5.238	5.248	(1.161)	7837	0.45458	1.364	
	4 2-Methylnaphthalene	141	5.286	5.295	(1.172)	11646	0.88369	2.651	
	5 1-methylnaphthalene	141	5.482	5.488	(1.215)	11944	0.92677	2.780	
	9 Acenaphthylene	152	6.671	6.677	(0.984)	22925	0.92890	2.787	
*	10 Acenaphthene-d10	164	6.778	6.785	(1.000)	28564	2.00000		
	11 Acenaphthene	153	6.829	6.835	(1.007)	15390	0.93983	2.819	
	12 Dibenzofuran	168	6.981	6.987	(1.030)	22551	0.98159	2.945	
	14 Fluorene	166	7.452	7.458	(1.099)	19264	1.04230	3.127	
*	15 Phenanthrene-d10	188	8.799	8.805	(1.000)	53670	2.00000		
	16 Phenanthrene	178	8.833	8.840	(1.004)	33977	1.19337	3.580	
	17 Anthracene	178	8.875	8.881	(1.009)	27657	1.01419	3.043	
	22 Fluoranthene	202	10.509	10.512	(1.194)	46569	1.49489	4.485	
$	21 Fluoranthene-d10	212	10.474	10.478	(1.190)	19358	0.54546	1.636	
	23 Pyrene	202	10.996	10.984	(0.818)	51644	1.58074	4.742	
	24 Benzo(a)anthracene	228	13.327	13.333	(0.991)	39060	1.27846	3.835	
*	25 Chrysene-d12	240	13.447	13.453	(1.000)	48338	2.00000		
	27 Chrysene	228	13.516	13.526	(1.005)	39506	1.35326	4.060	
	28 Benzo(b)fluoranthene	252	15.973	15.986	(0.928)	38943	1.06095	3.183	
	29 Benzo(k)fluoranthene	252	16.030	16.043	(0.931)	34536	1.01427	3.043	
	30 Benzo(j)fluoranthene	252	16.106	16.119	(0.935)	33440	1.06901	3.207	
	31 Total Benzofluoranthenes	252	15.973	15.986	(0.928)	107154	3.16511	9.495(M)	
	32 Benzo(a)pyrene	252	16.994	17.004	(0.987)	33890	1.11851	3.356	
*	33 Perylene-d12	264	17.219	17.229	(1.000)	51698	2.00000		
	35 Perylene	252	17.292	17.308	(1.004)	42587	1.40361	4.211	
$	36 Dibenzo(a,h)anthracene-d14	292	19.464	19.470	(1.130)	17926	0.80715	2.421	
	37 Indeno(1,2,3-cd)pyrene	276	19.584	19.587	(1.137)	41708	1.40350	4.210	
	38 Dibenzo(a,h)anthracene	278	19.556	19.568	(1.136)	33486	1.30621	3.919	
	39 Benzo(g,h,i)perylene	276	20.482	20.492	(1.190)	39013	1.41128	4.234	

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt8.i
Lab File ID: N822121510.D
Lab Smp Id: BKL0196-MS1
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: \\target\share\chem3\nt8.i\20221215.b\FSIMPNA220411.m
Misc Info: 22-

Calibration Date: 15-DEC-2022
Calibration Time: 10:02
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	49492	24746	98984	45710	-7.64
10 Acenaphthene-d10	30076	15038	60152	28564	-5.03
15 Phenanthrene-d10	58825	29413	117650	53670	-8.76
25 Chrysene-d12	58593	29297	117186	48338	-17.50
33 Perylene-d12	63012	31506	126024	51698	-17.96

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	4.52	4.02	5.02	4.51	-0.21
10 Acenaphthene-d10	6.79	6.29	7.29	6.78	-0.09
15 Phenanthrene-d10	8.81	8.31	9.31	8.80	-0.07
25 Chrysene-d12	13.45	12.95	13.95	13.45	-0.05
33 Perylene-d12	17.23	16.73	17.73	17.22	-0.06

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

REVIEW SUMMARY FOR FILE - N822121510.D

Lab ID: BKL0196-MS1
nt8.i, 20221215.b\FSIMPNA220411.m,   15-DEC-2022 18:55

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

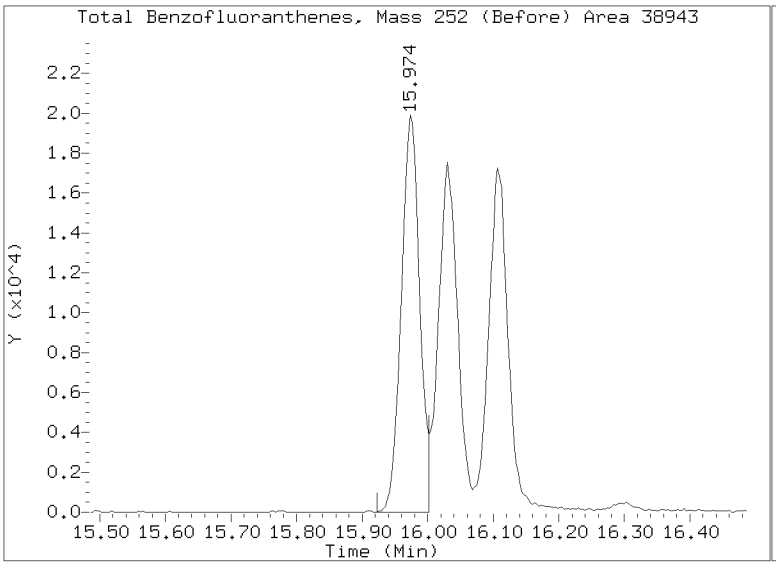
No RRT check performed

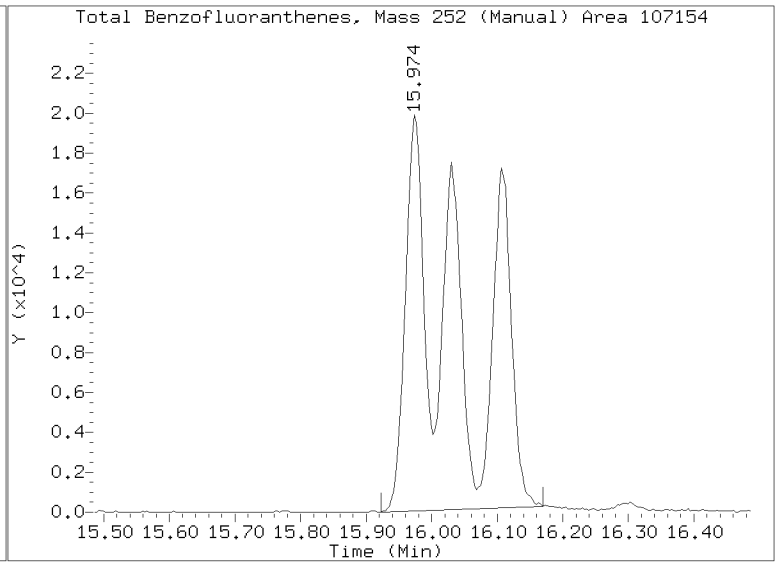
On Column LOD for nt8.i, 20221215.b\FSIMPNA220411.m, PNAXMDL.sub = 0.0080

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20221215.b/N822121510.D
Injection Date: 15-DEC-2022 18:55
Lab ID:BKL0196-MS1 Client ID:
Report Date: 12/16/2022 16:17

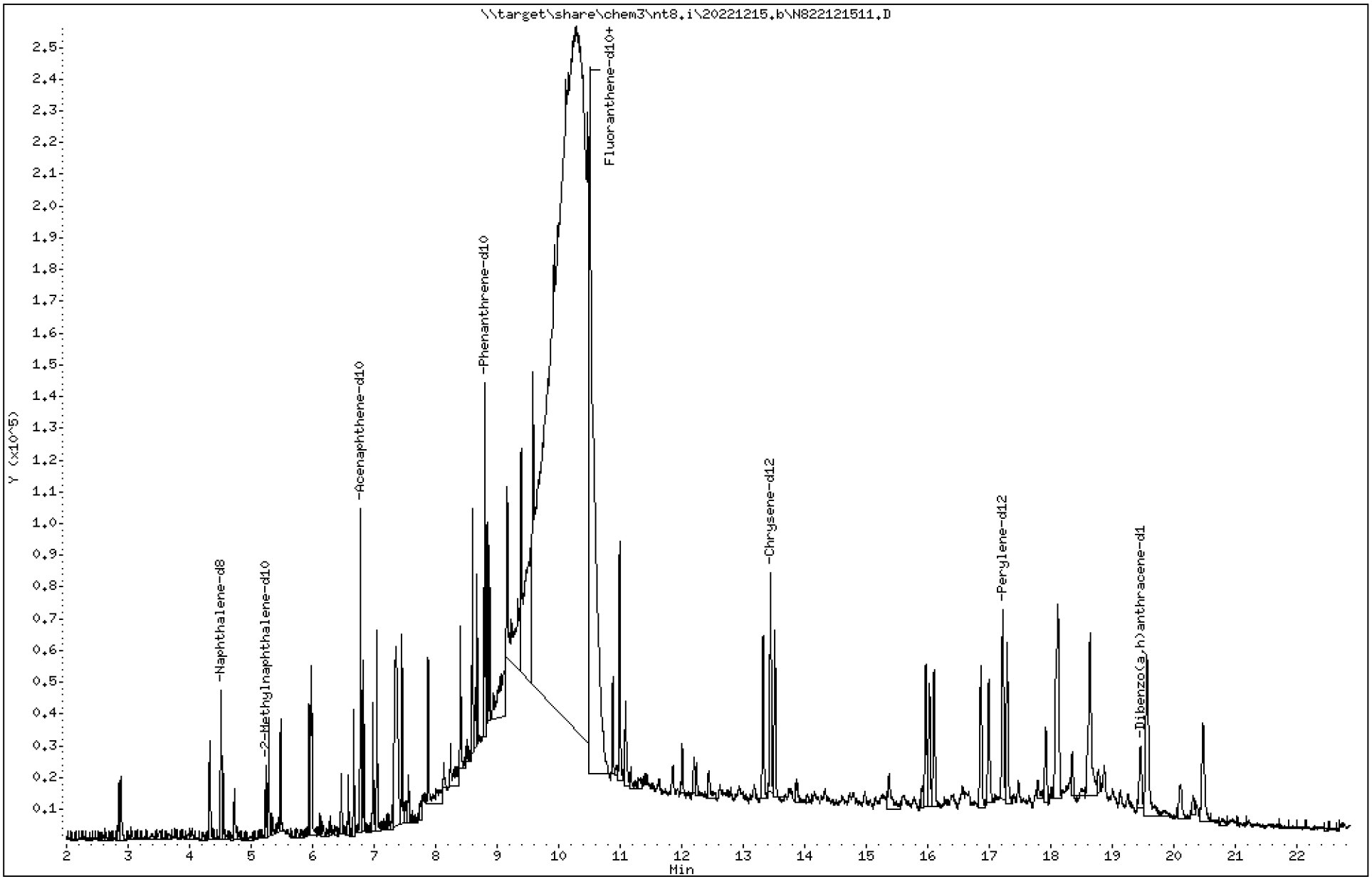




Data File: \\target\share\chem3\nt8.i\20221215.b\N822121511.D
Date : 15-DEC-2022 19:22
Client ID:
Sample Info: BKL0196-MSD1,3

Instrument: nt8.i
Operator: JZ
Column diameter: 0.25

Column phase: Rxi-17sil



Data File: \\target\share\chem3\nt8.i\20221215.b\N822121511.D

Date : 15-DEC-2022 19:22

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MSD1,3

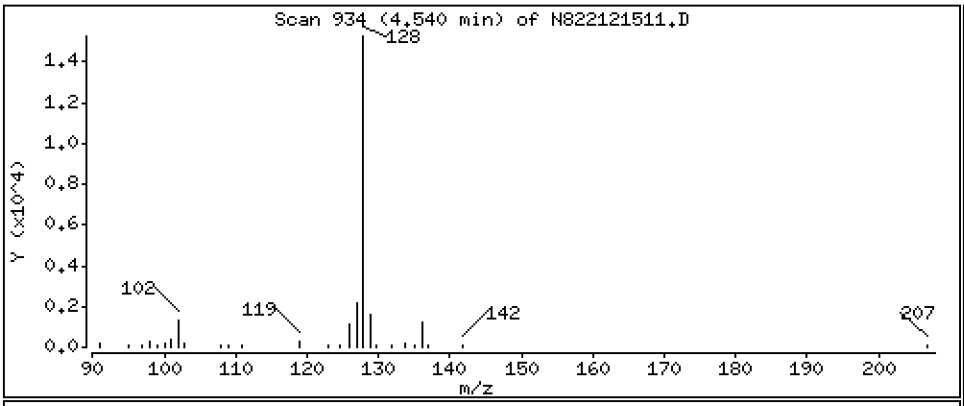
Operator: JZ

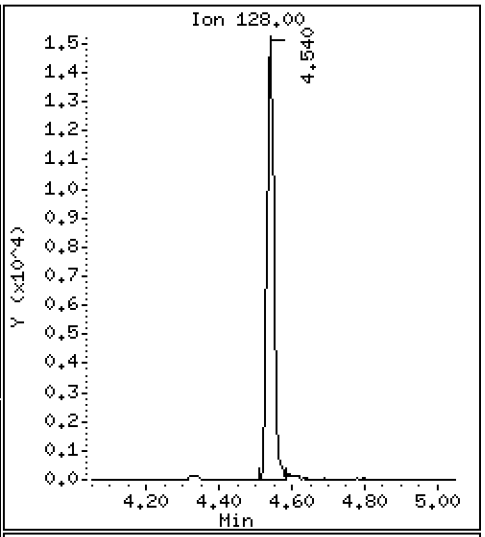
Column phase: Rxi-17sil

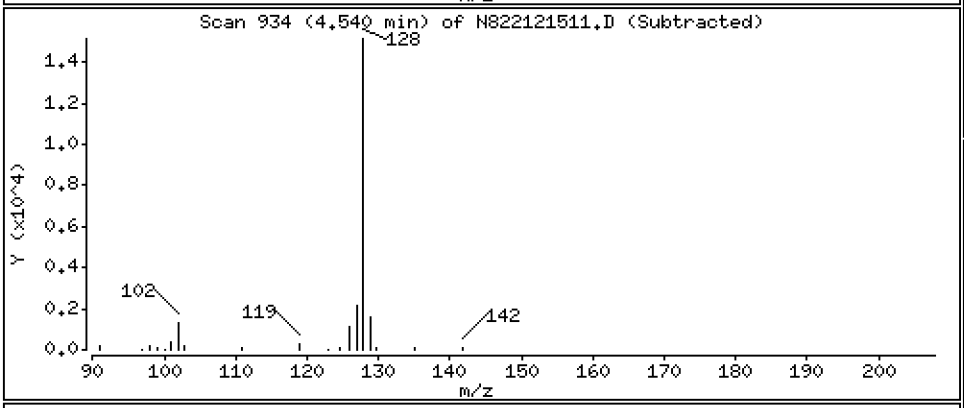
Column diameter: 0.25

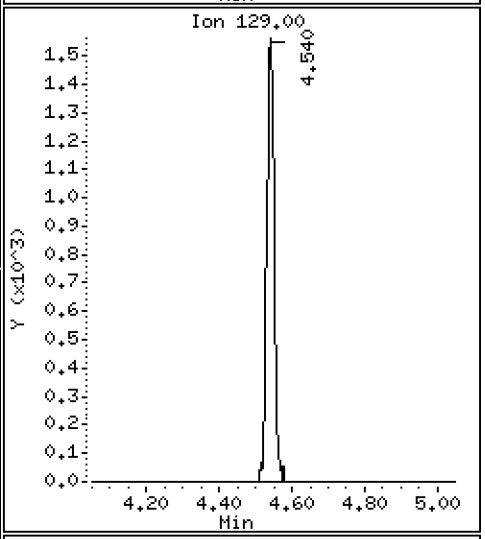
2 Naphthalene

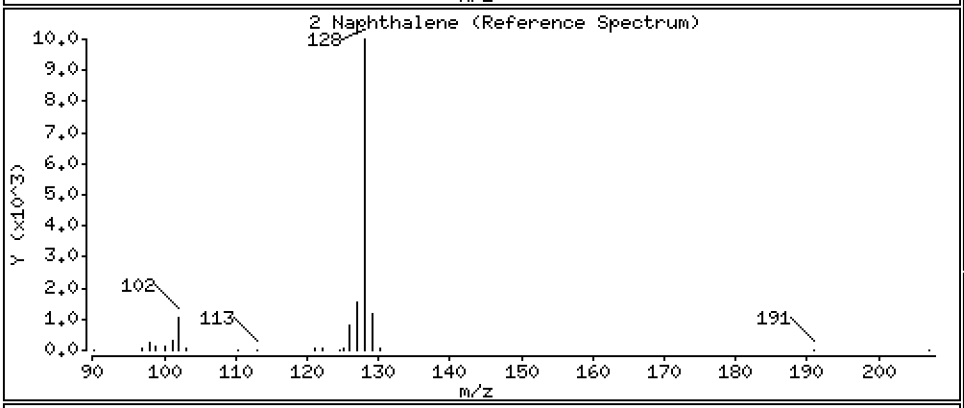
Concentration: 2.653 ug/mL

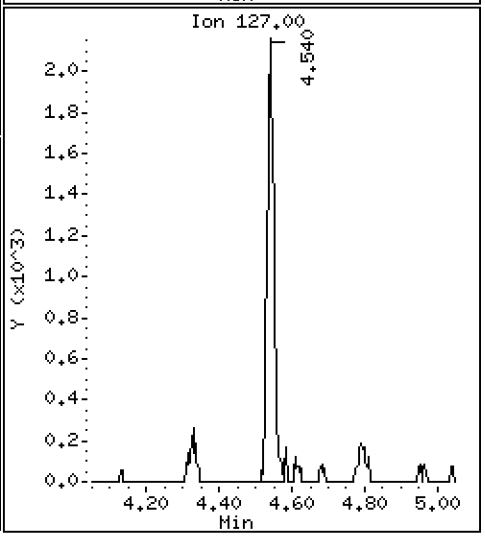


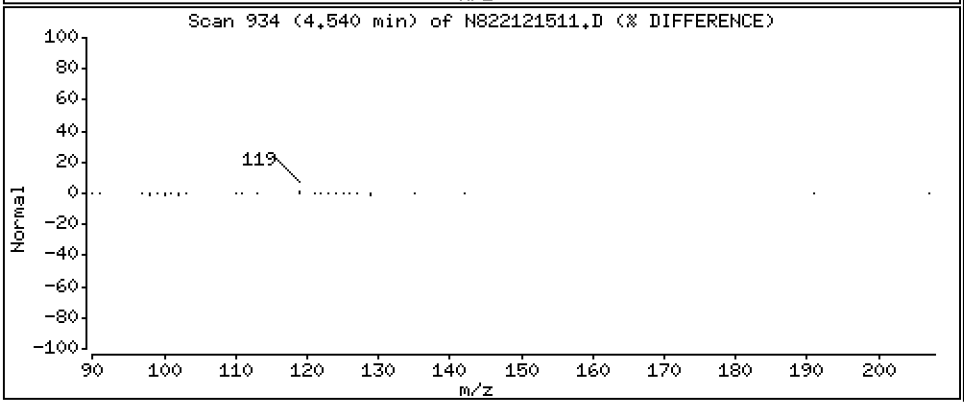












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121511.D

Date : 15-DEC-2022 19:22

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MSD1,3

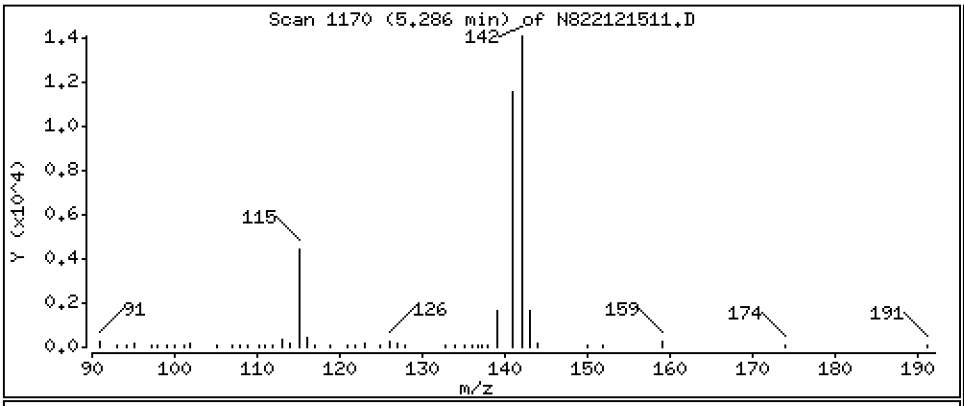
Operator: JZ

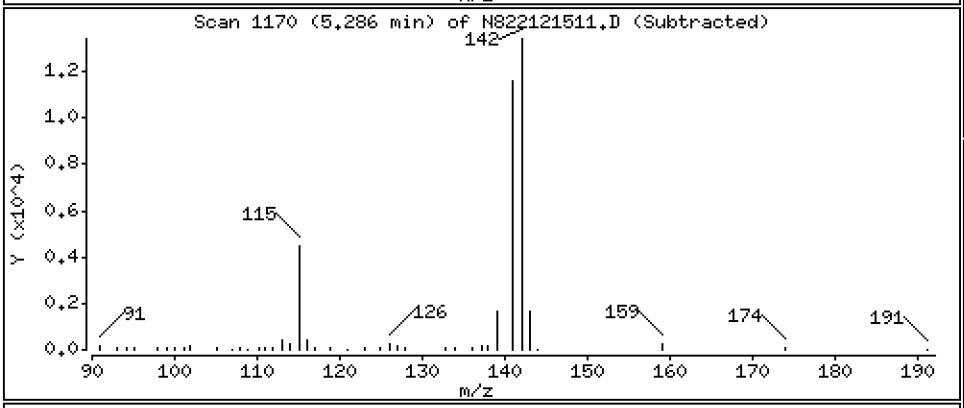
Column phase: Rxi-17sil

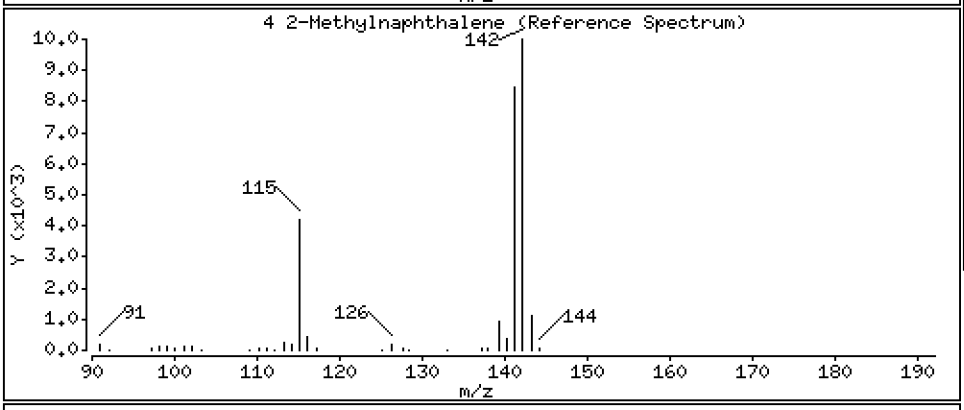
Column diameter: 0.25

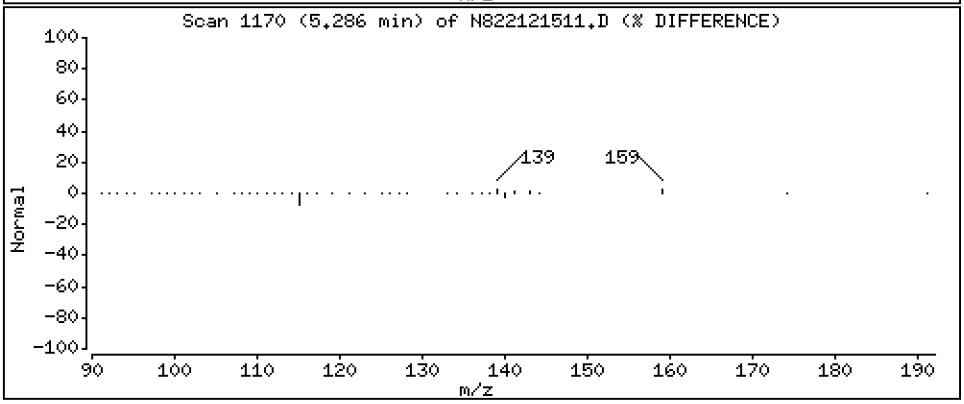
4 2-Methylnaphthalene

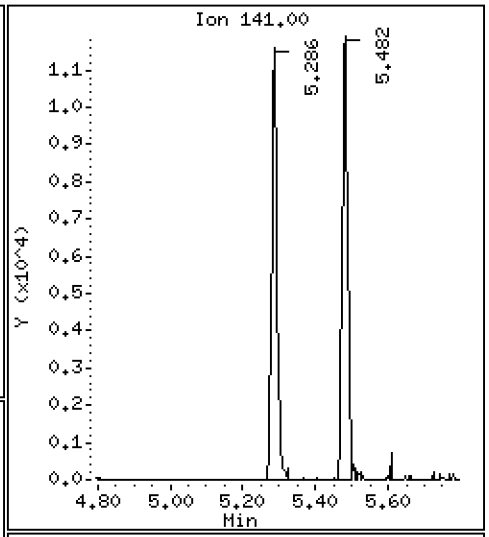
Concentration: 2.865 ug/mL

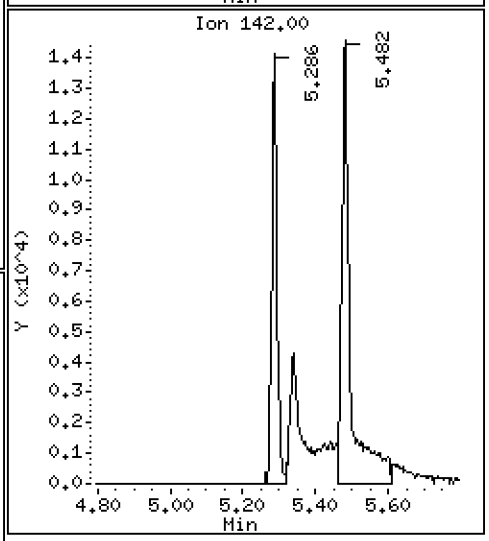












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121511.D

Date : 15-DEC-2022 19:22

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MSD1,3

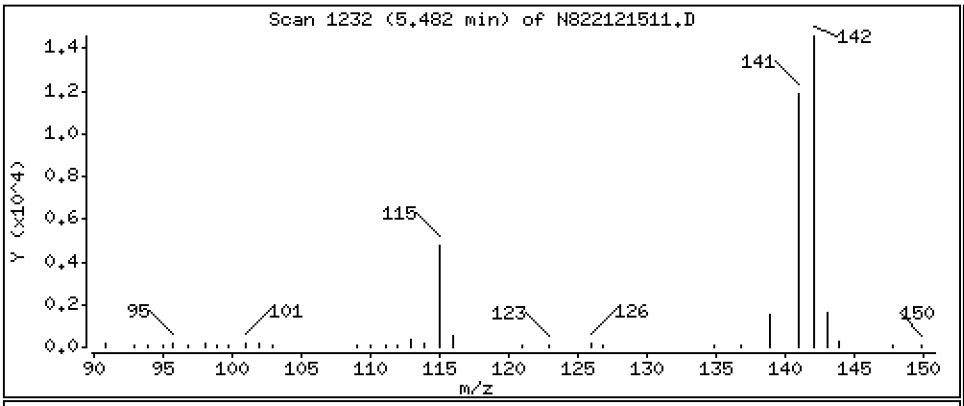
Operator: JZ

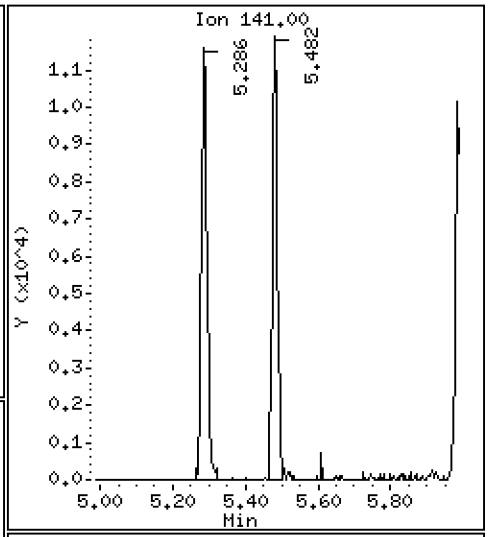
Column phase: Rxi-17sil

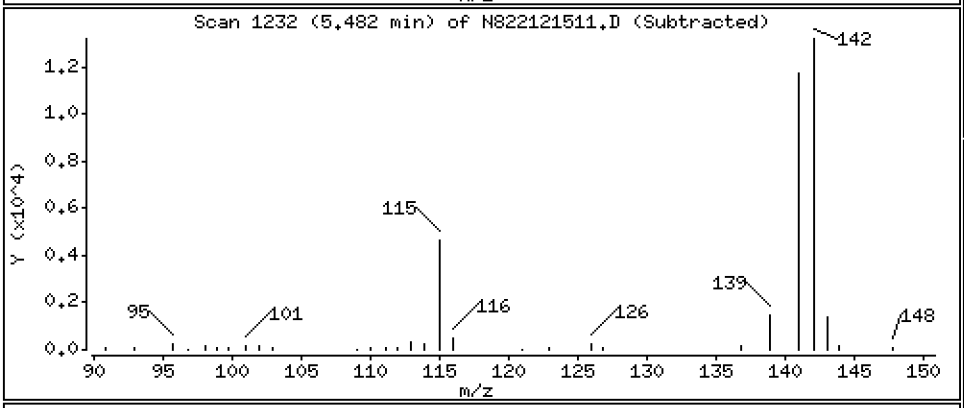
Column diameter: 0.25

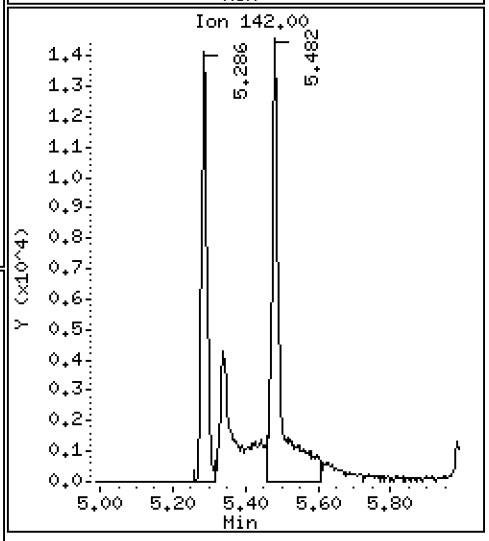
5 1-methylnaphthalene

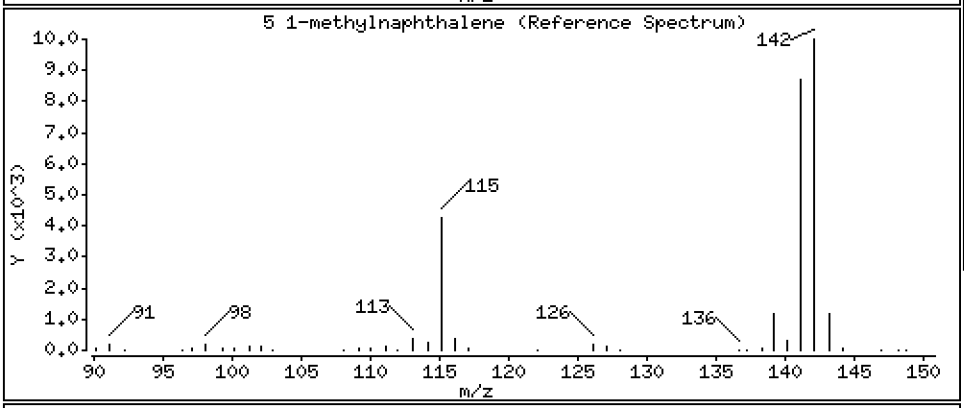
Concentration: 2.896 ug/mL

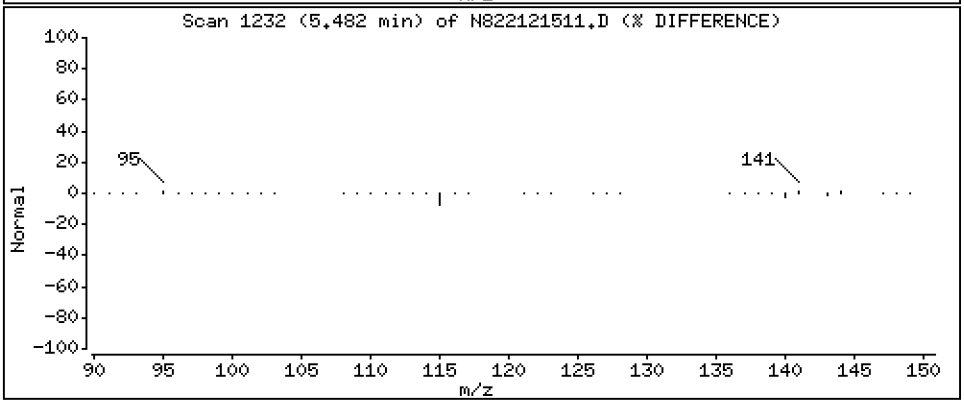












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Date : 15-DEC-2022 19:22

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MSD1,3

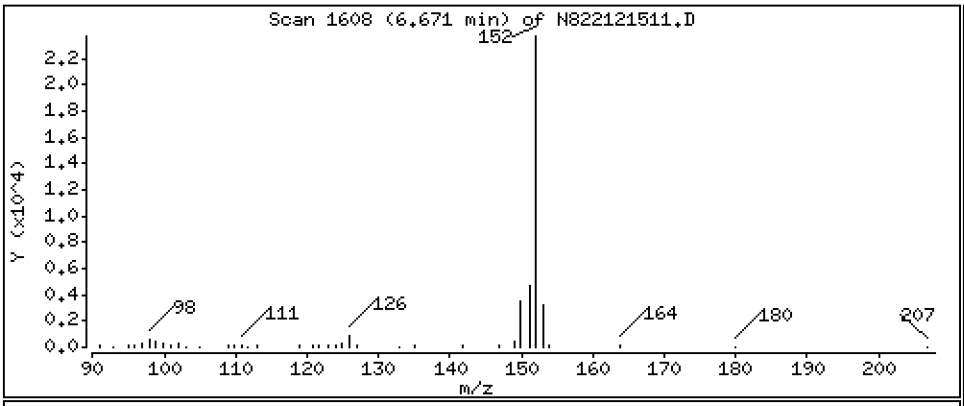
Operator: JZ

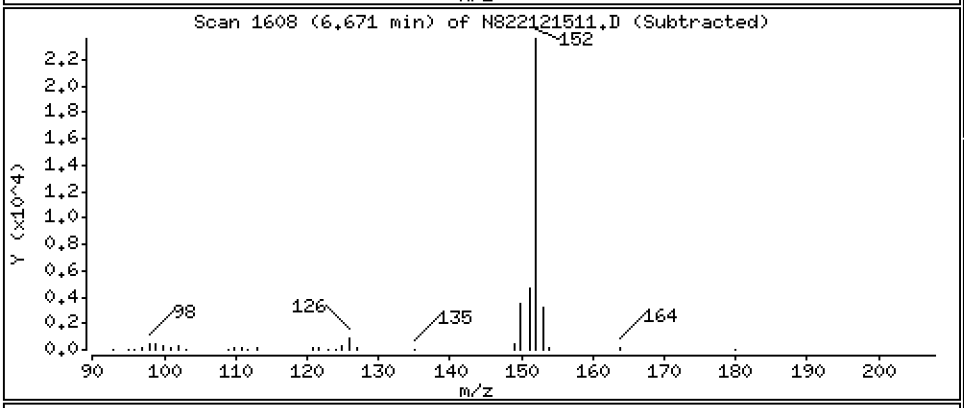
Column phase: Rxi-17sil

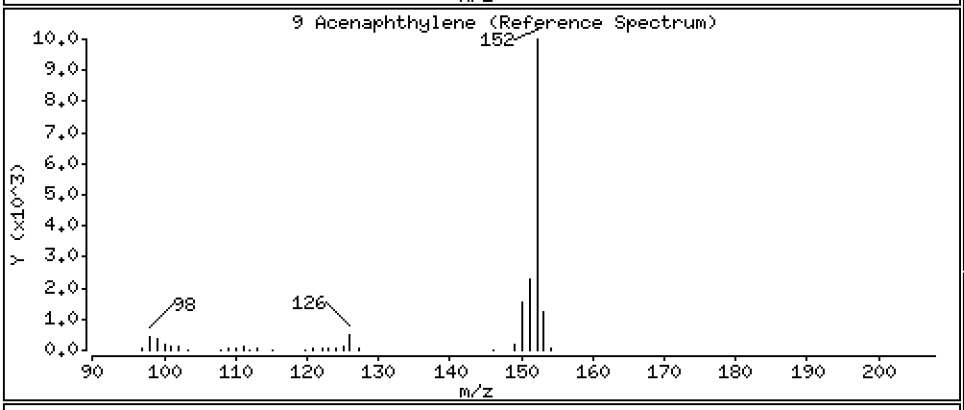
Column diameter: 0.25

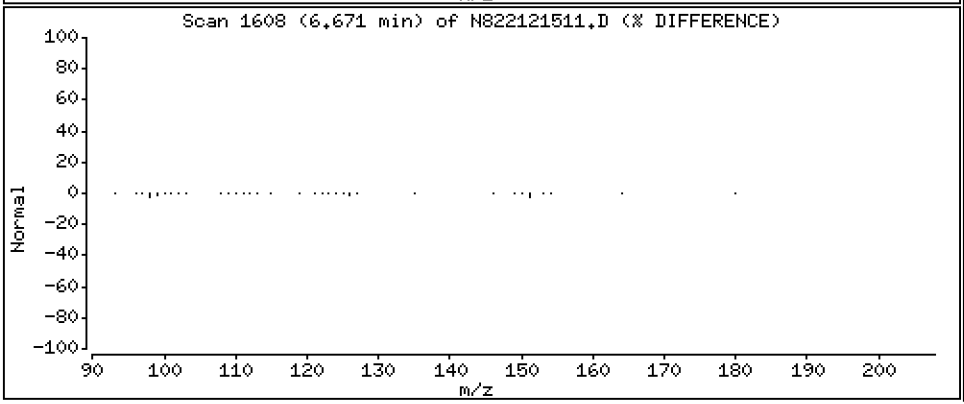
9 Acenaphthylene

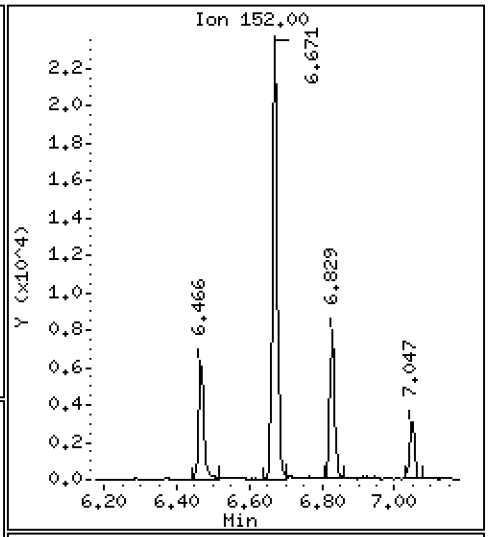
Concentration: 2.873 ug/mL

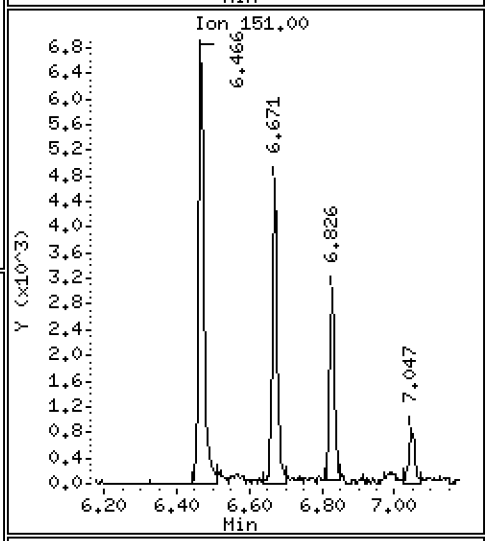


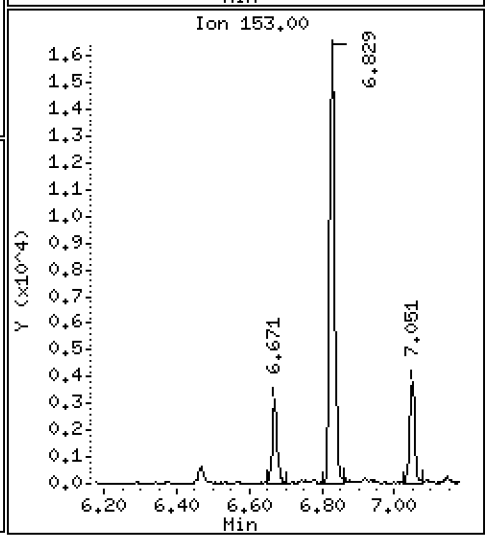












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Date : 15-DEC-2022 19:22

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MSD1,3

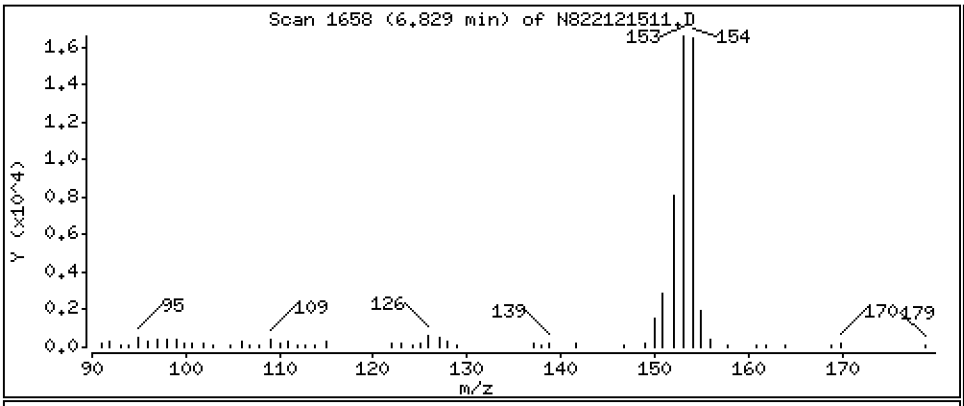
Operator: JZ

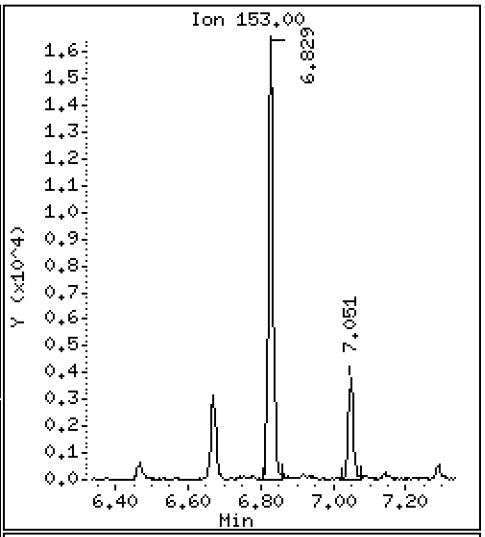
Column phase: Rxi-17sil

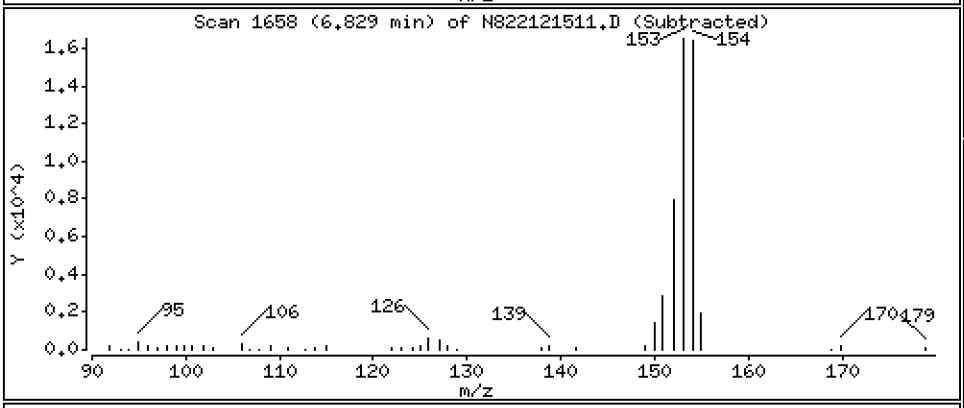
Column diameter: 0.25

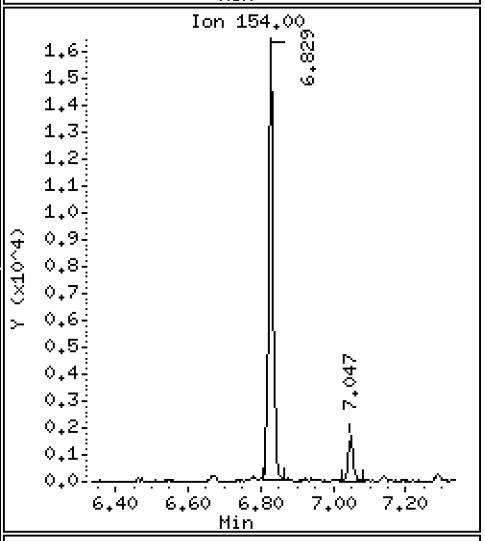
11 Acenaphthene

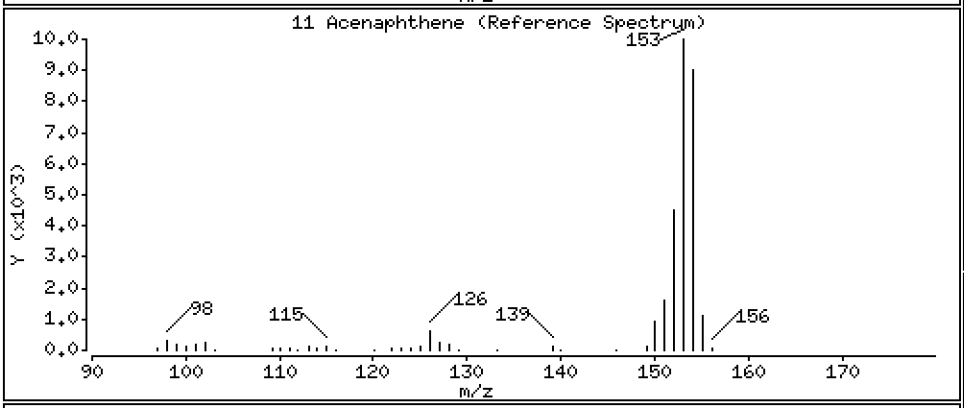
Concentration: 2.976 ug/mL

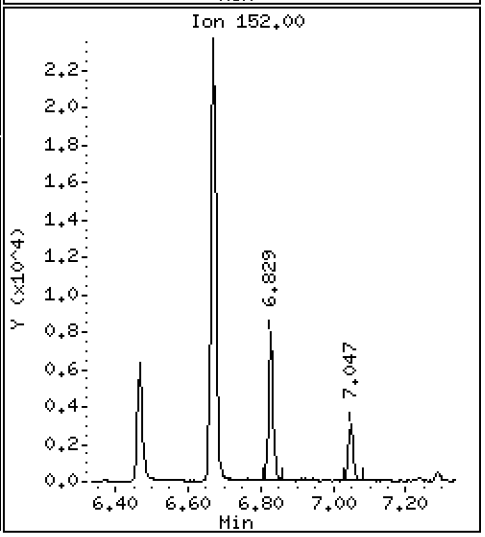


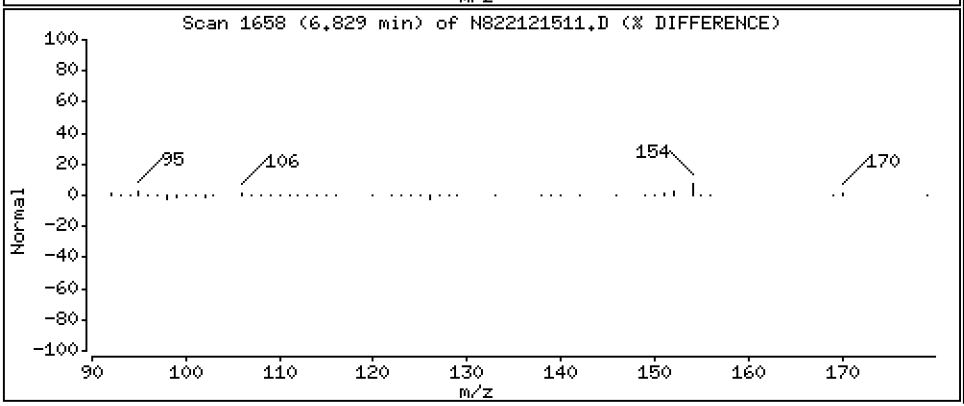












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121511.D

Date : 15-DEC-2022 19:22

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MSD1,3

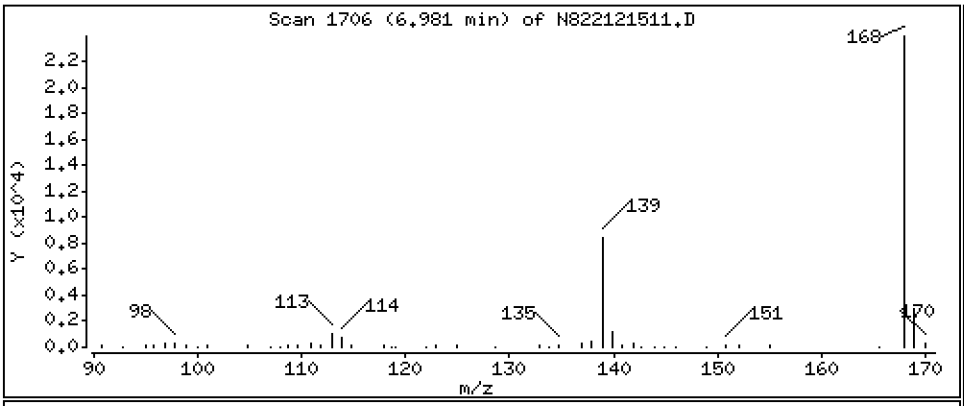
Operator: JZ

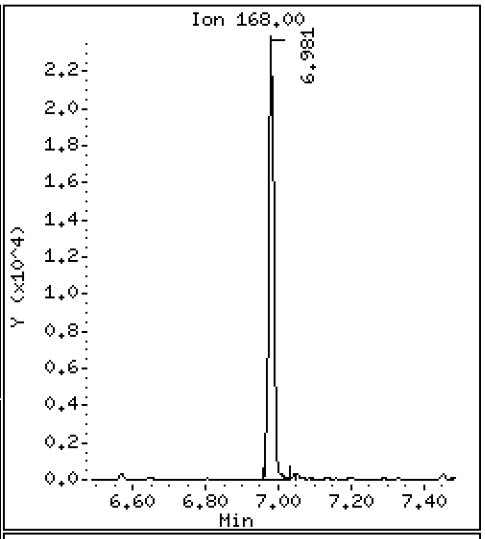
Column phase: Rxi-17sil

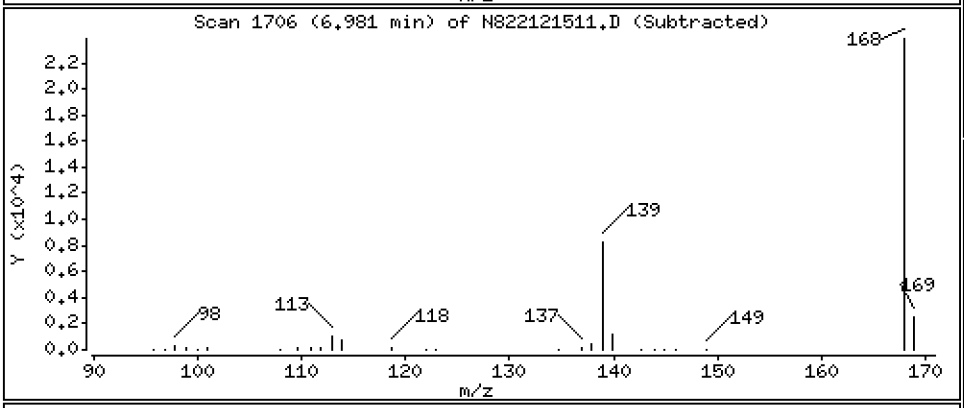
Column diameter: 0.25

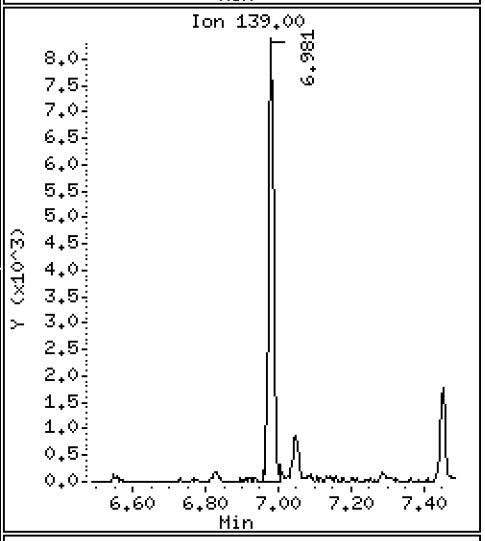
12 Dibenzofuran

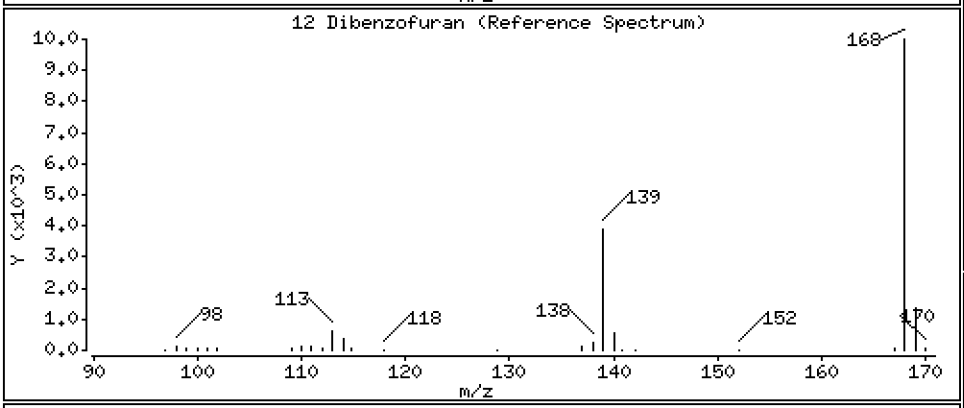
Concentration: 3.087 ug/mL

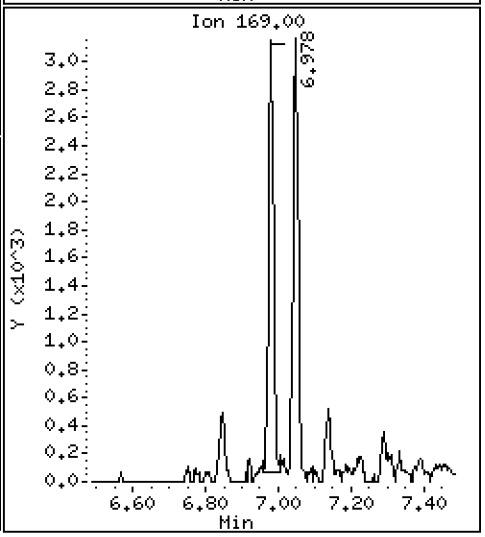


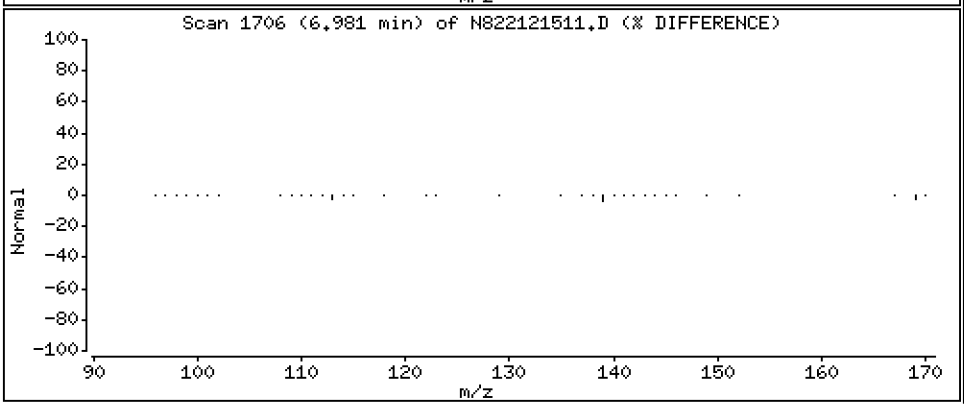












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Date : 15-DEC-2022 19:22

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MSD1,3

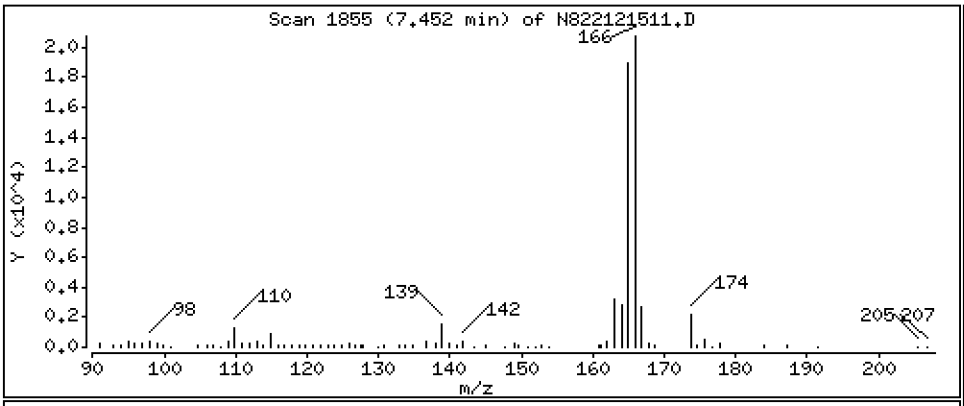
Operator: JZ

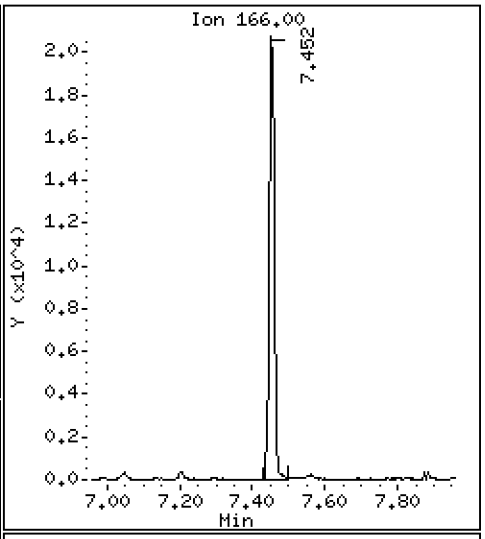
Column phase: Rxi-17sil

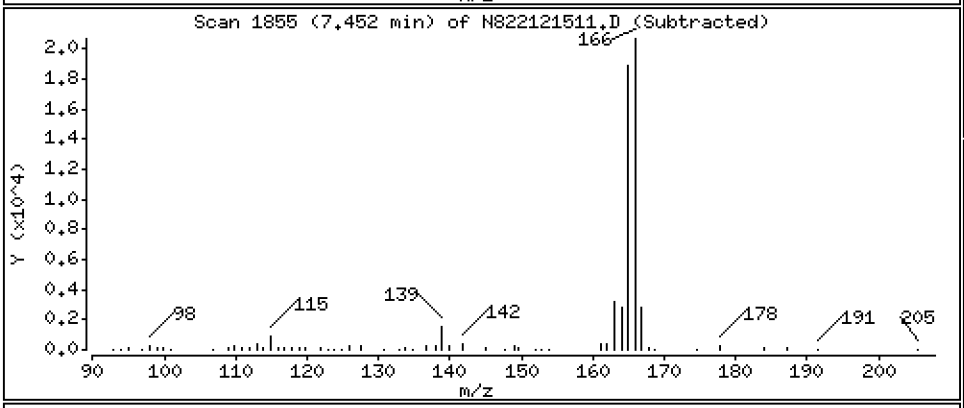
Column diameter: 0.25

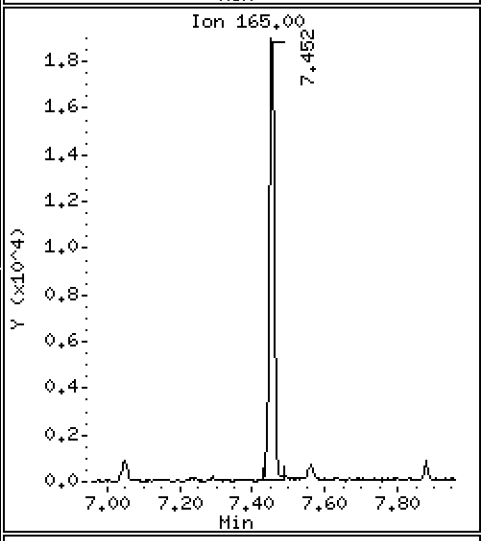
14 Fluorene

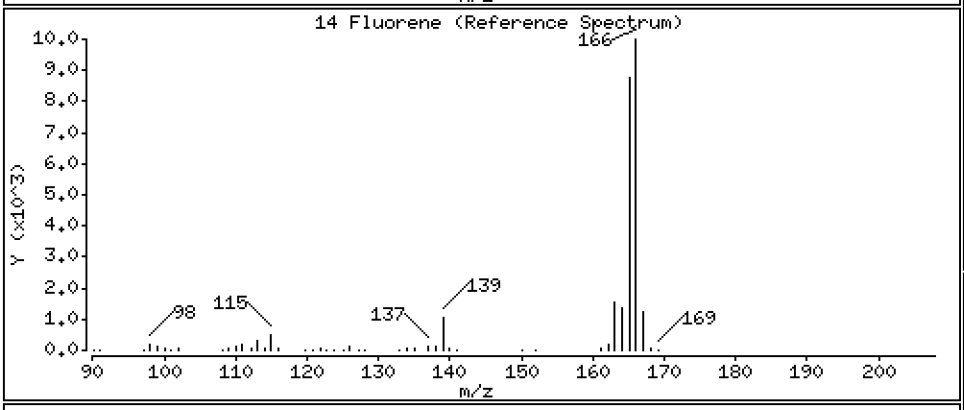
Concentration: 3.288 ug/mL

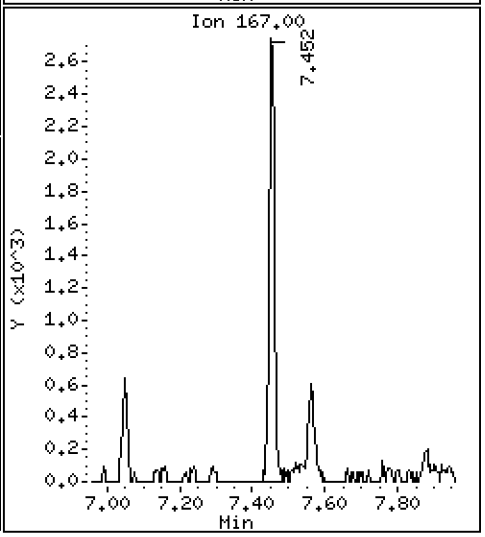


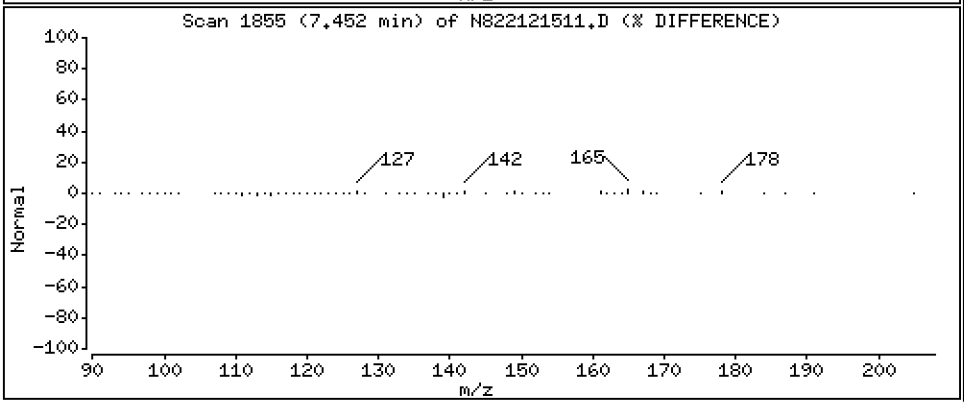












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Date : 15-DEC-2022 19:22

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MSD1,3

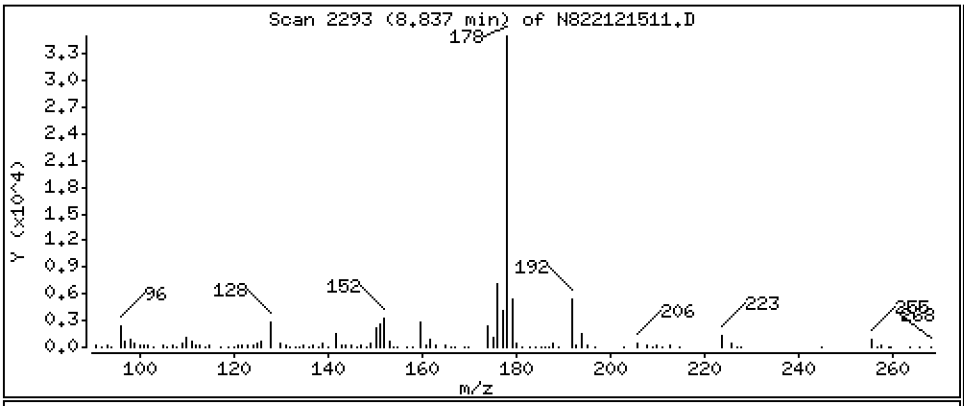
Operator: JZ

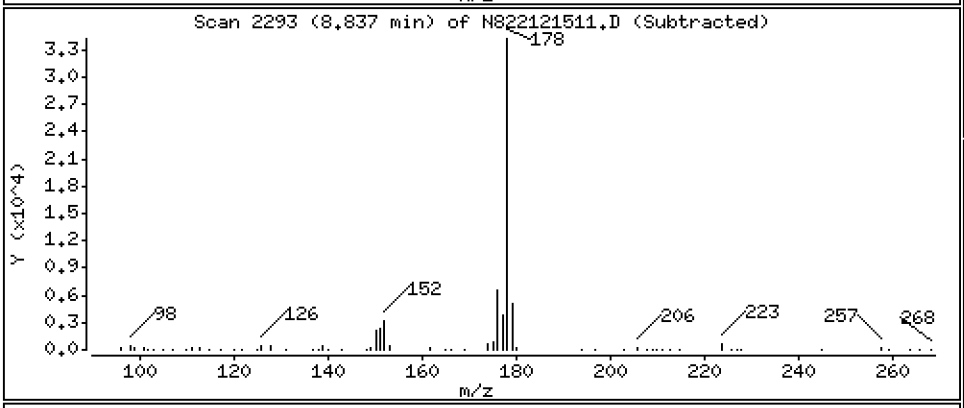
Column phase: Rxi-17sil

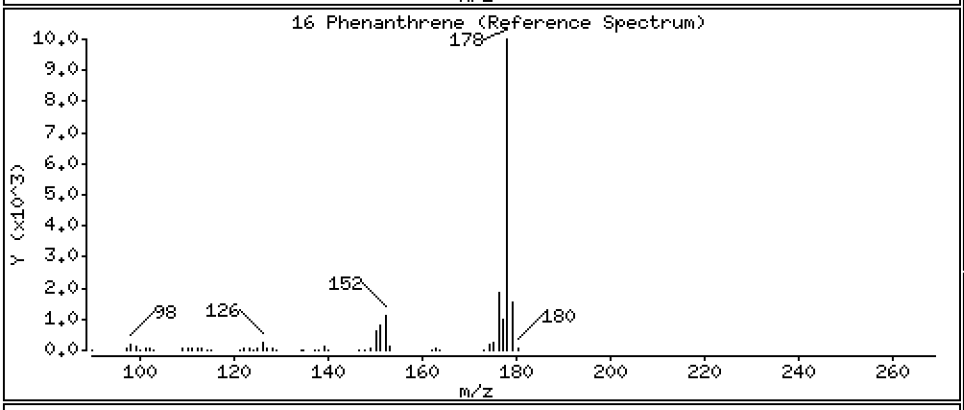
Column diameter: 0.25

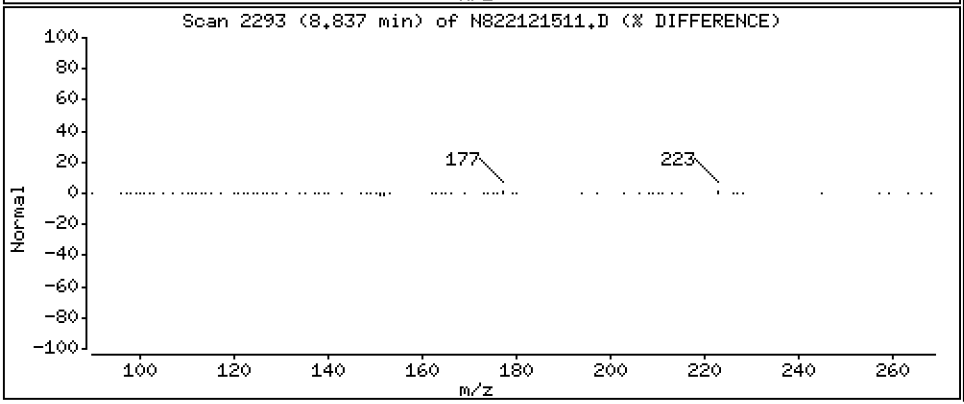
16 Phenanthrene

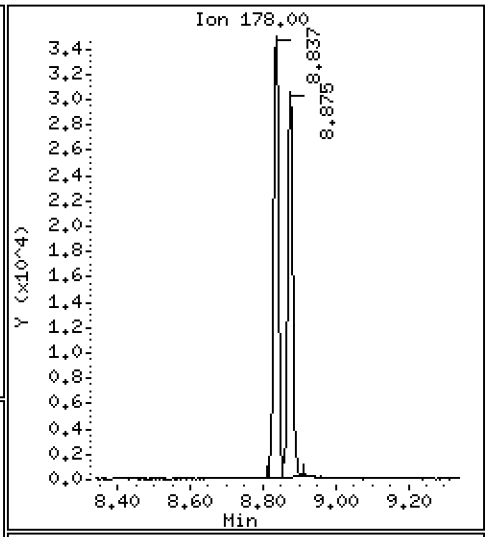
Concentration: 3.602 ug/mL

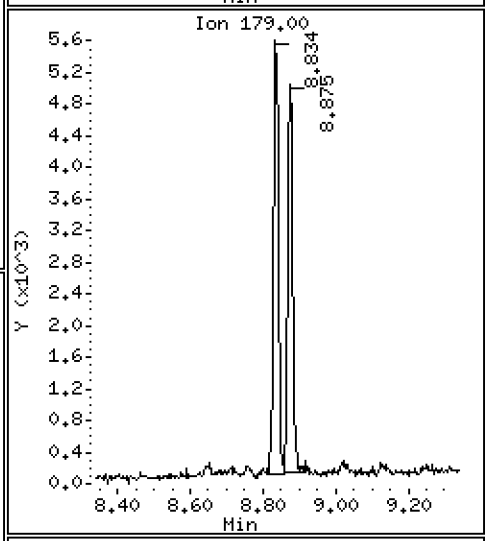


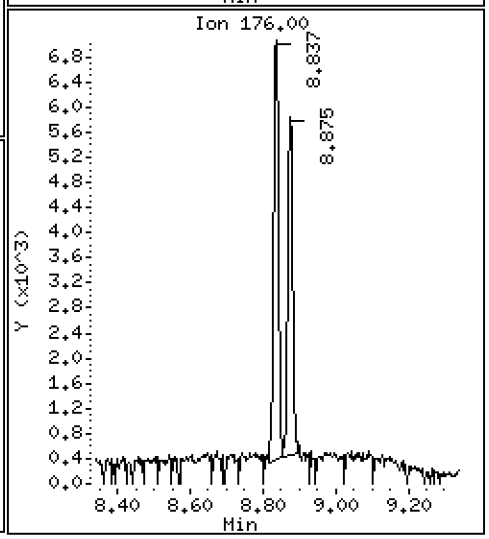












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121511.D

Date : 15-DEC-2022 19:22

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MSD1,3

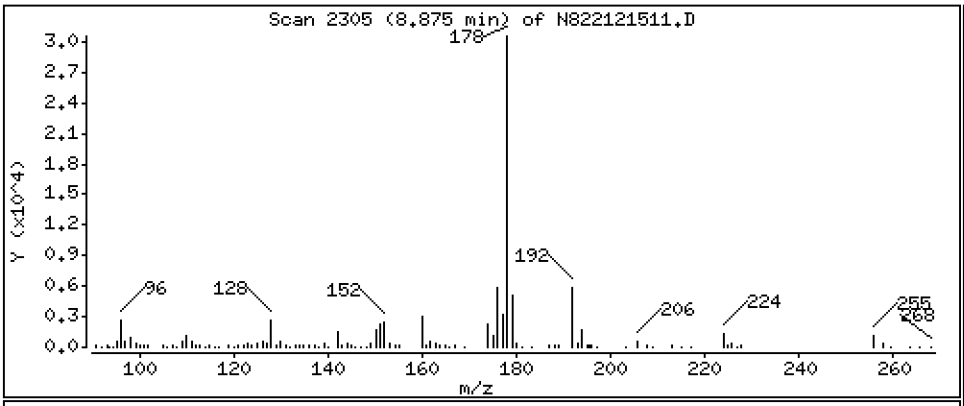
Operator: JZ

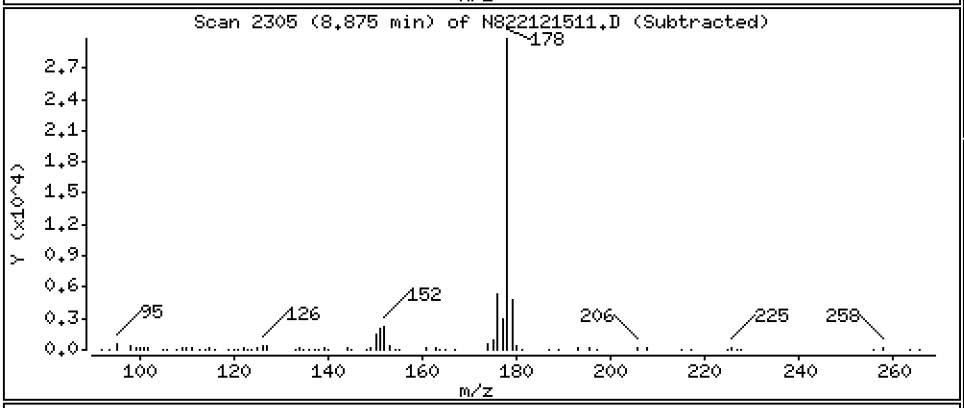
Column phase: Rxi-17sil

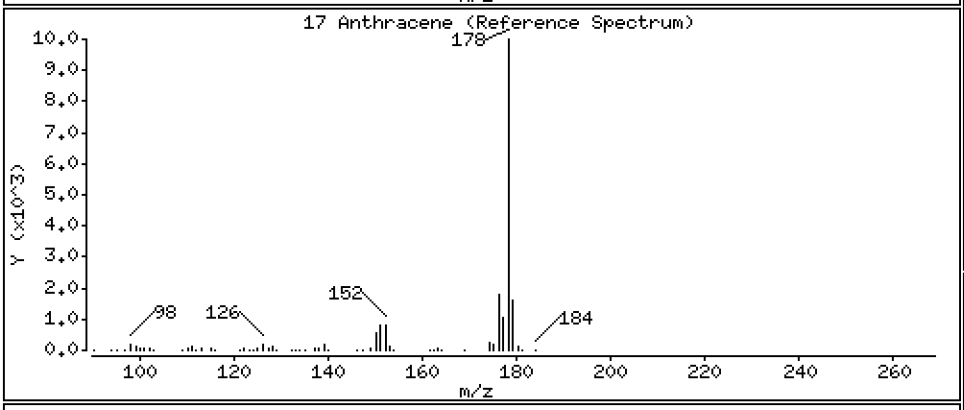
Column diameter: 0.25

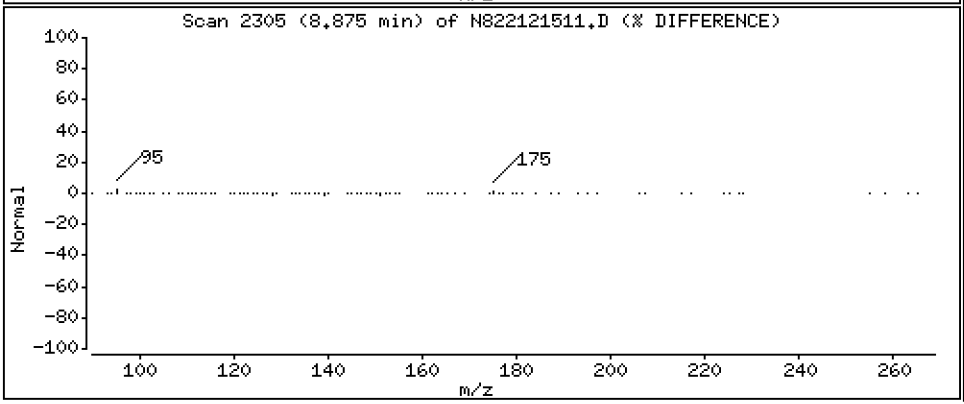
17 Anthracene

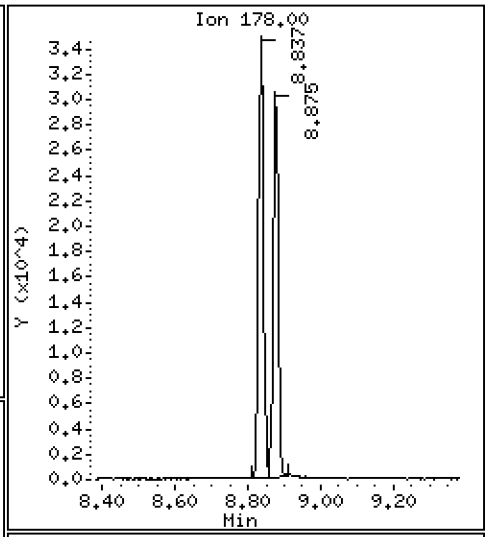
Concentration: 3.235 ug/mL

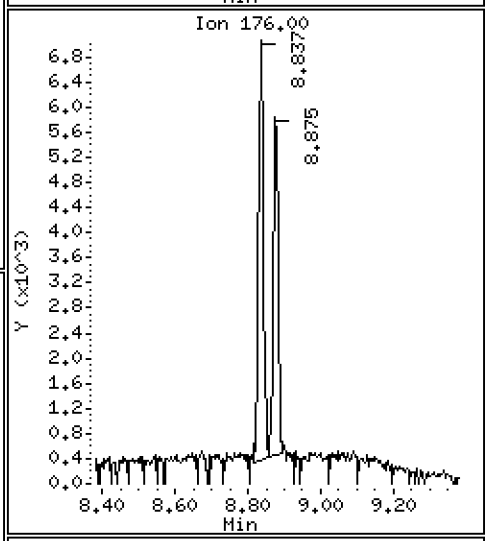


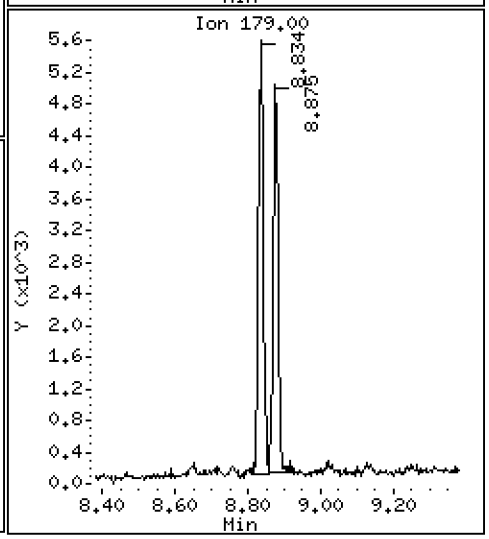












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121511.D

Date : 15-DEC-2022 19:22

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MSD1,3

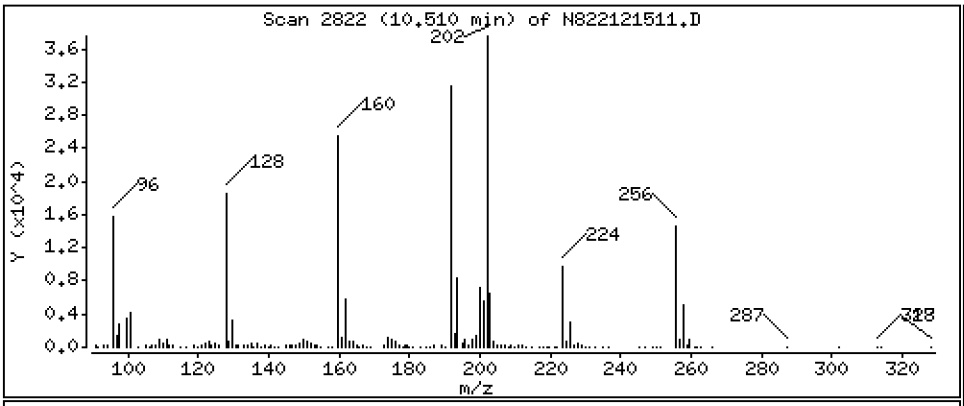
Operator: JZ

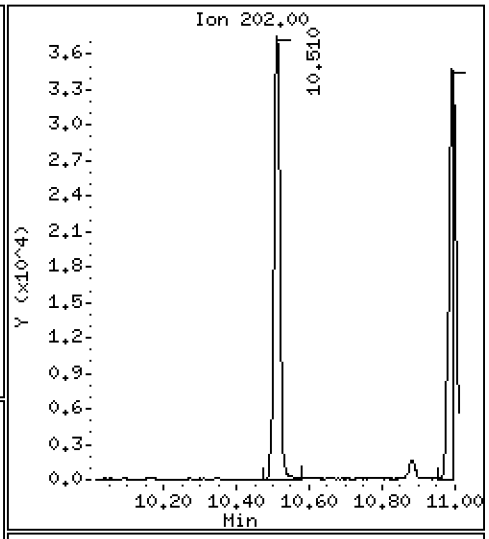
Column phase: Rxi-17sil

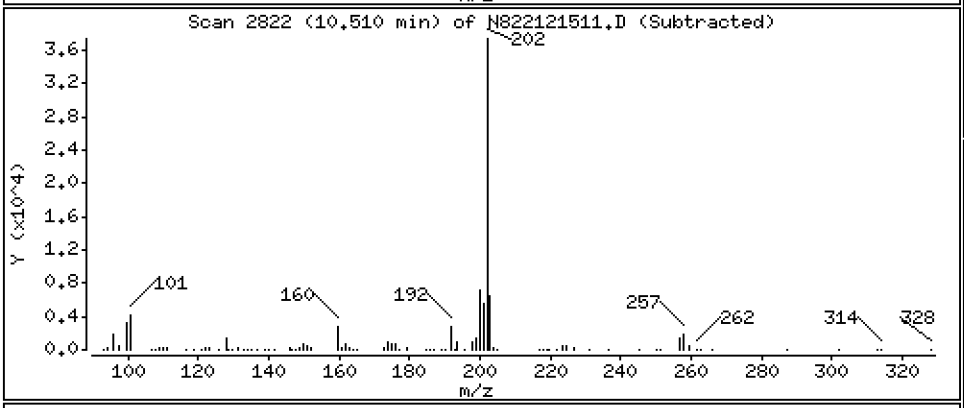
Column diameter: 0.25

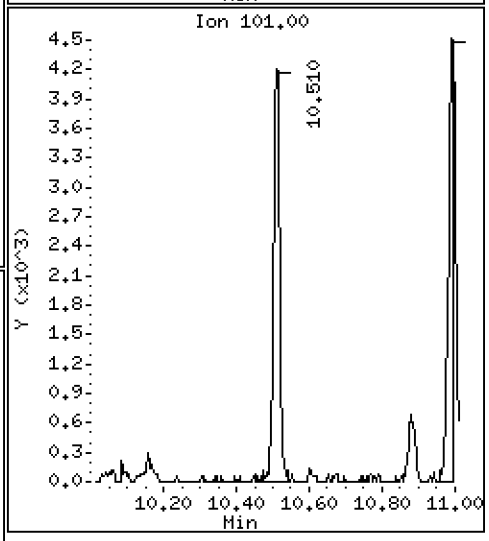
22 Fluoranthene

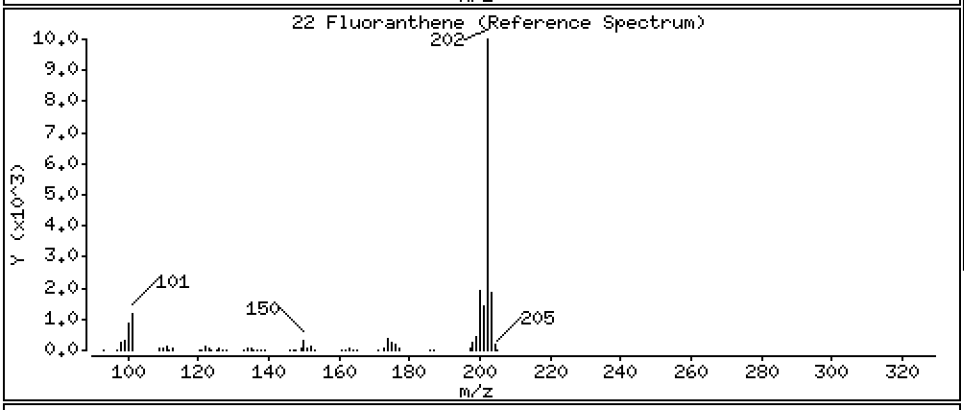
Concentration: 4.324 ug/mL

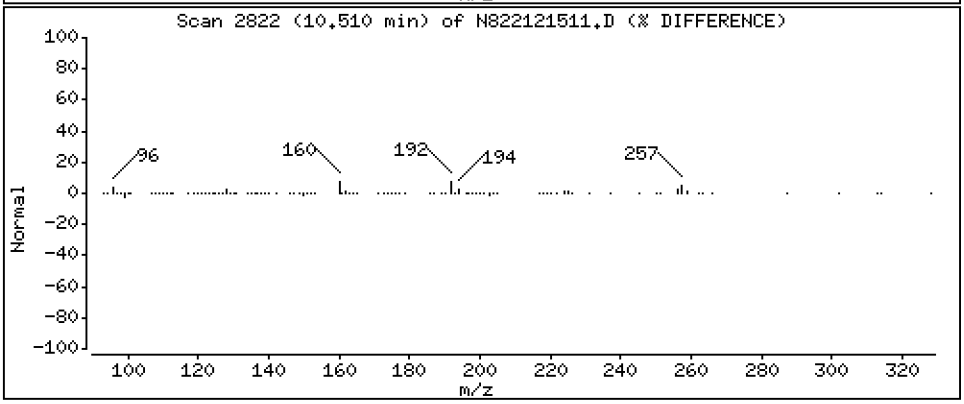












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121511.D

Date : 15-DEC-2022 19:22

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MSD1,3

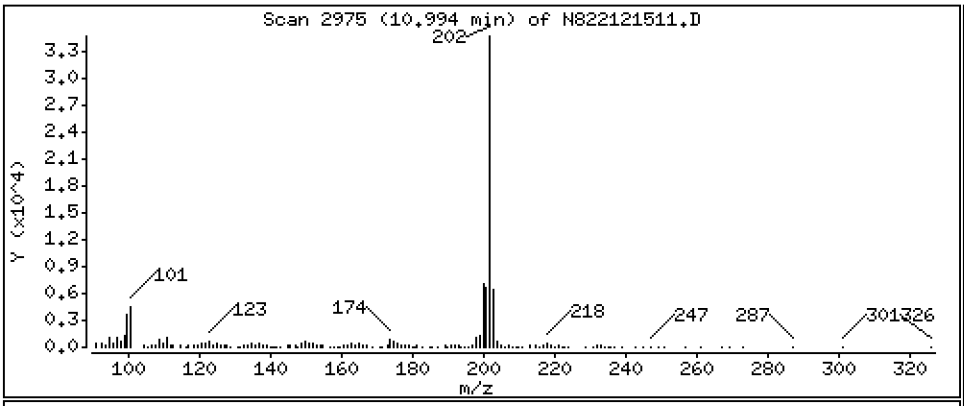
Operator: JZ

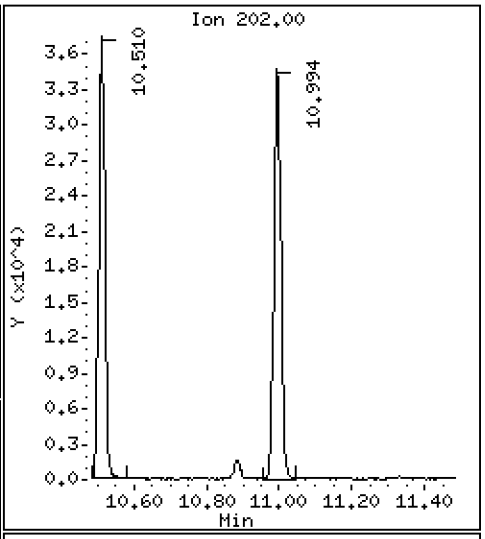
Column phase: Rxi-17sil

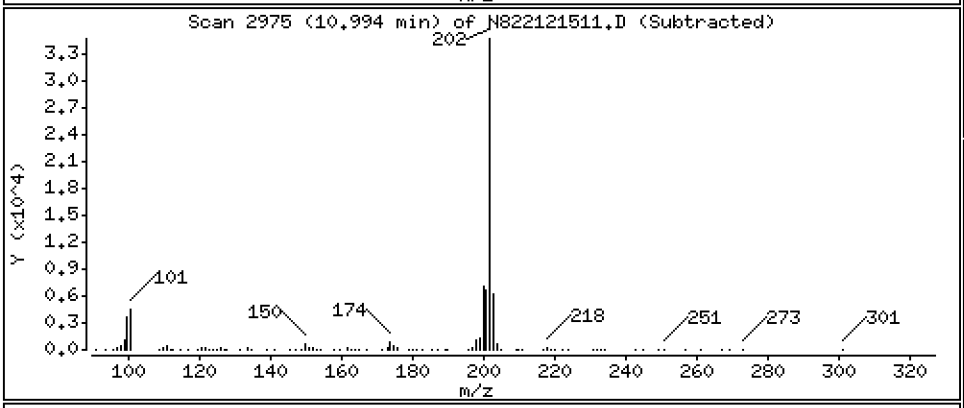
Column diameter: 0.25

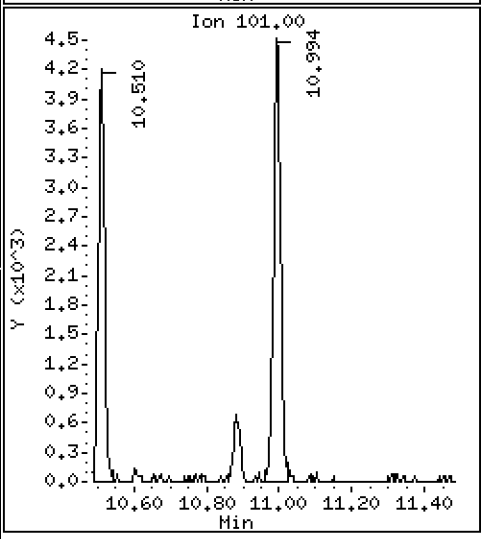
23 Pyrene

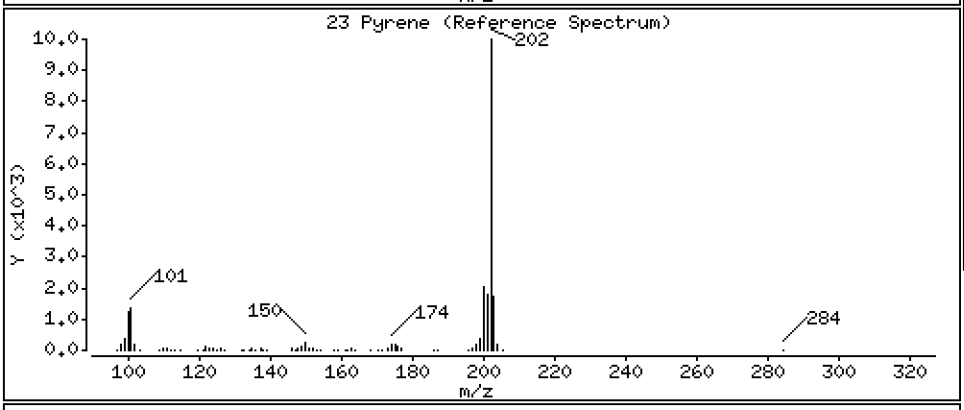
Concentration: 4.495 ug/mL

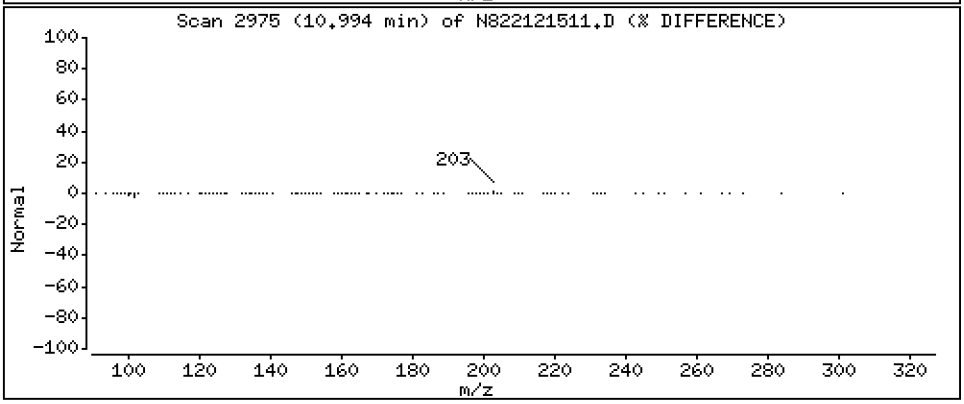












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121511.D

Date : 15-DEC-2022 19:22

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MSD1,3

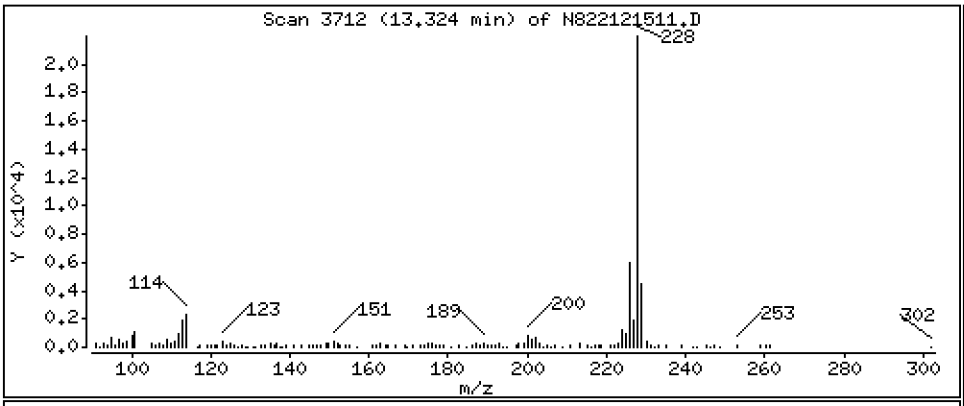
Operator: JZ

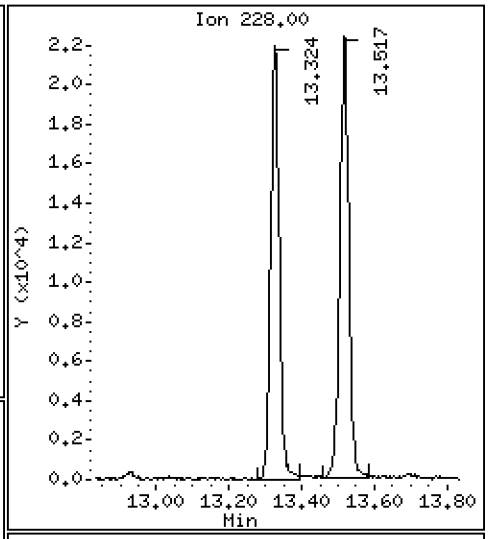
Column phase: Rxi-17sil

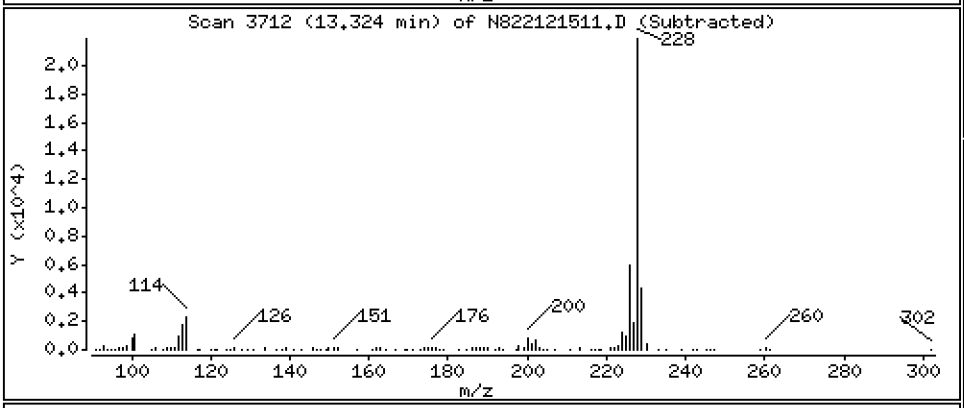
Column diameter: 0.25

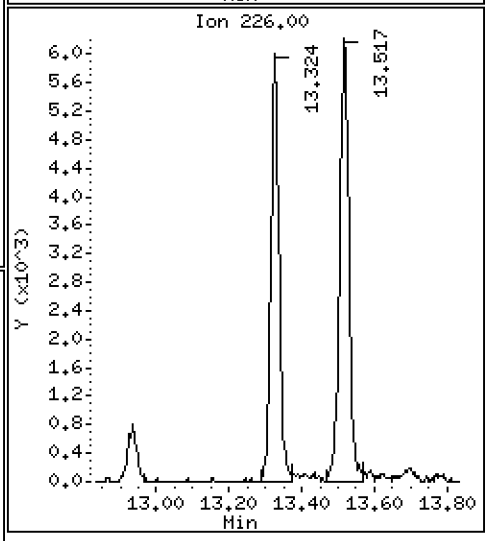
24 Benzo(a)anthracene

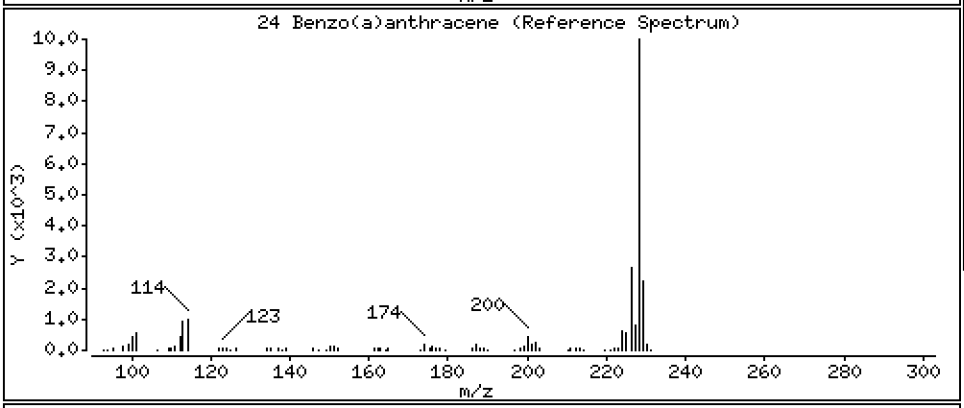
Concentration: 3.764 ug/mL

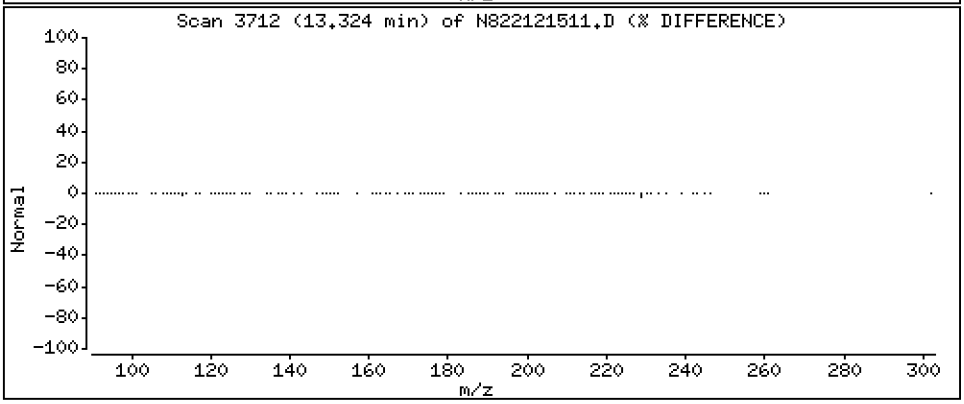












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121511.D

Date : 15-DEC-2022 19:22

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MSD1,3

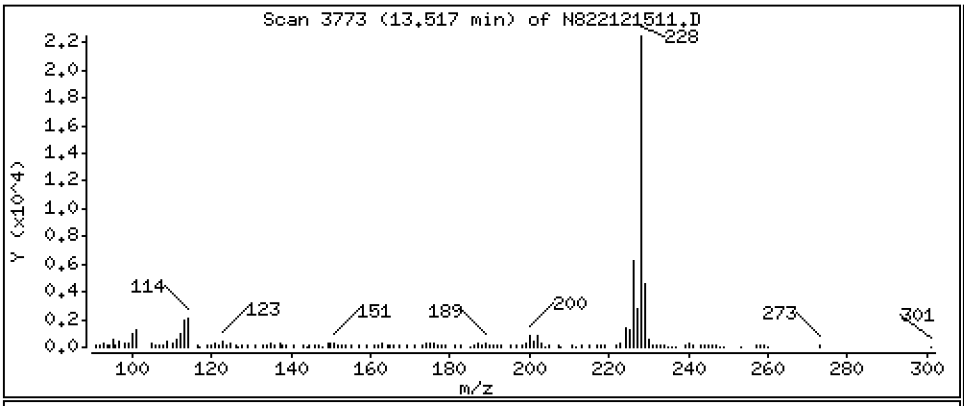
Operator: JZ

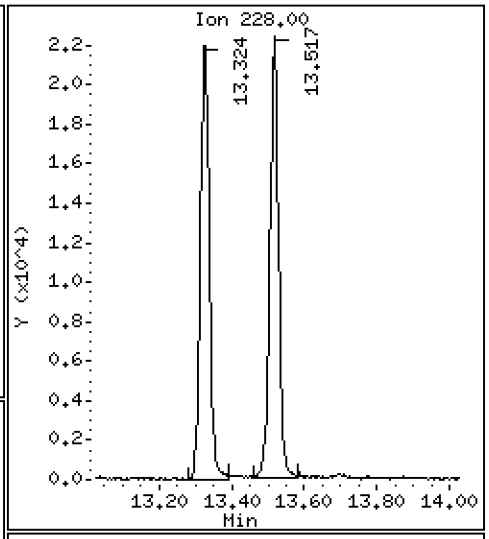
Column phase: Rxi-17sil

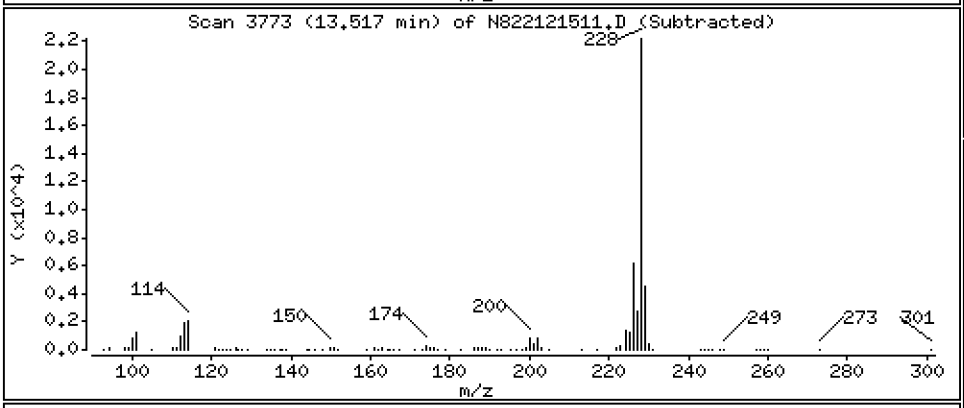
Column diameter: 0.25

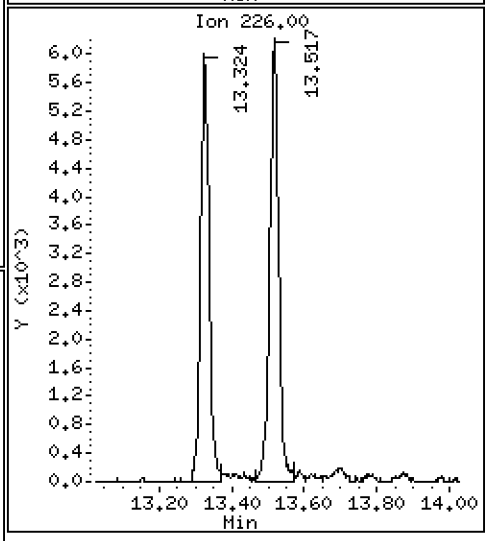
27 Chrysene

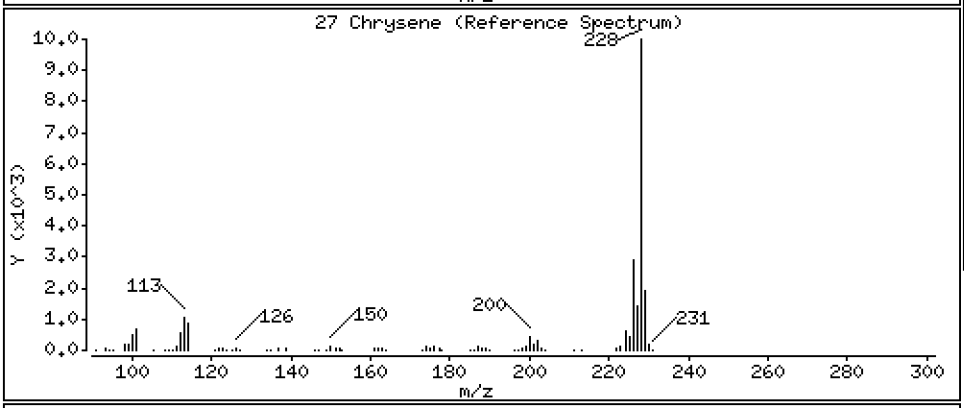
Concentration: 3.965 ug/mL

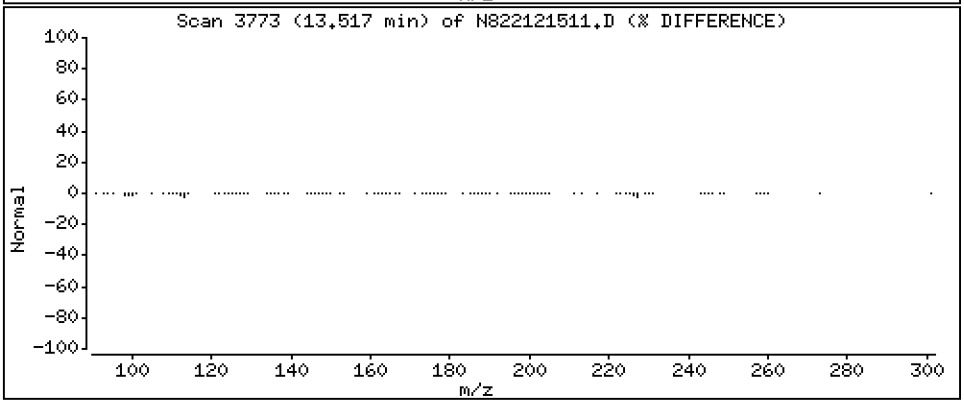












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121511.D

Date : 15-DEC-2022 19:22

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MSD1,3

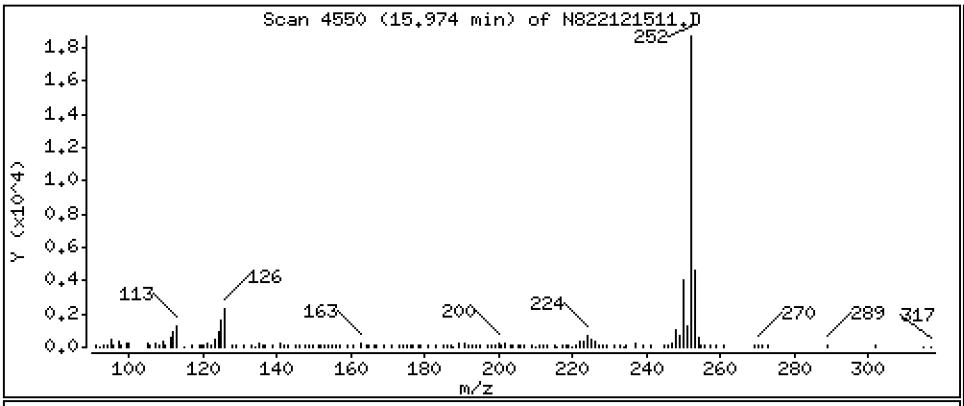
Operator: JZ

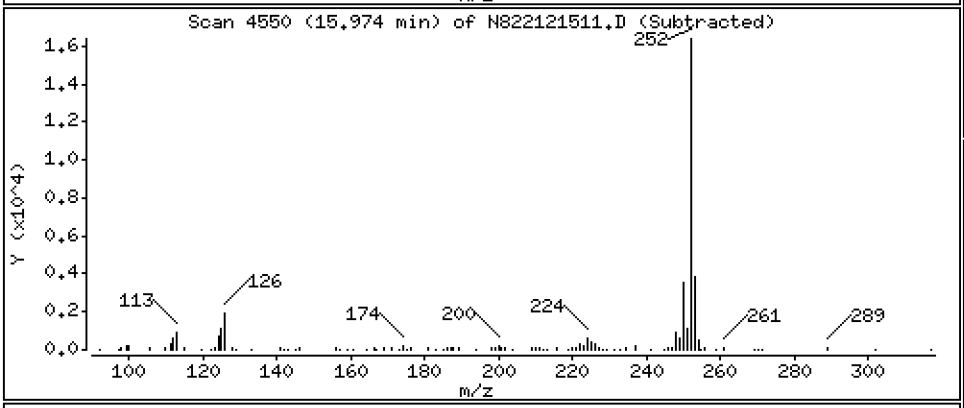
Column phase: Rxi-17sil

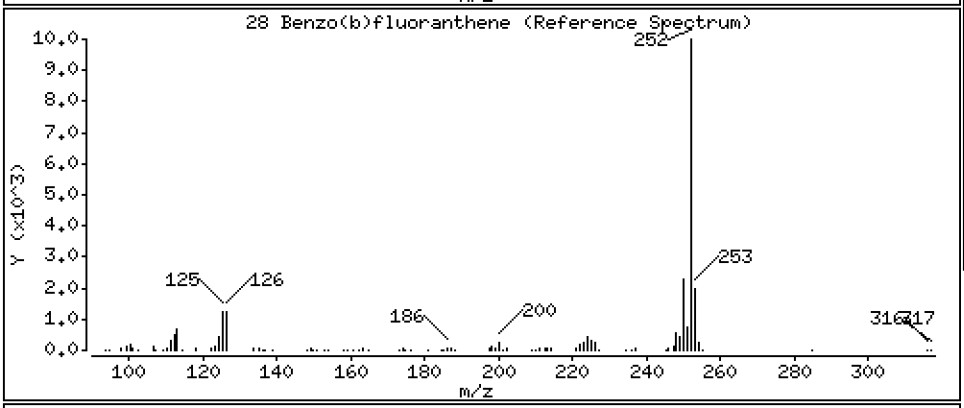
Column diameter: 0.25

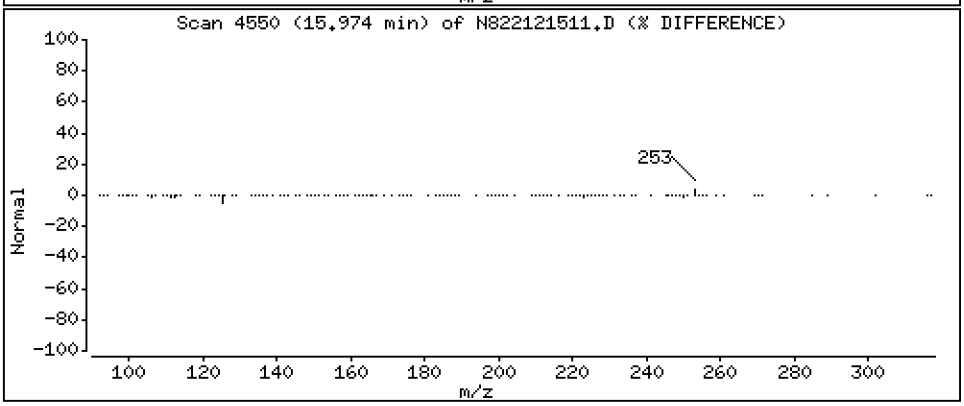
28 Benzo(b)fluoranthene

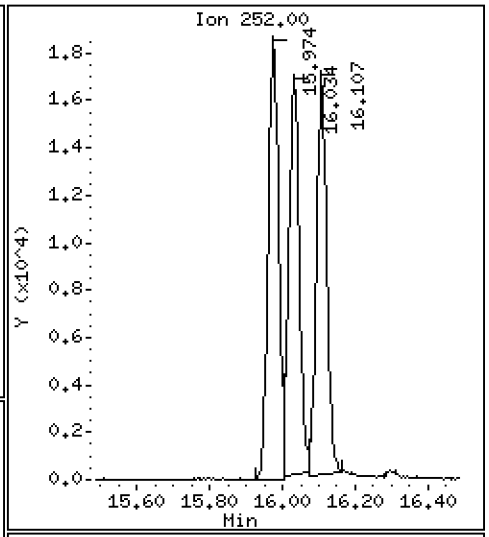
Concentration: 3.189 ug/mL

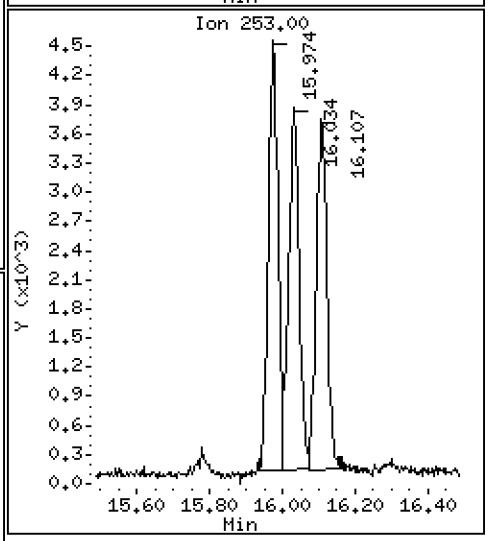












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121511.D

Date : 15-DEC-2022 19:22

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MSD1,3

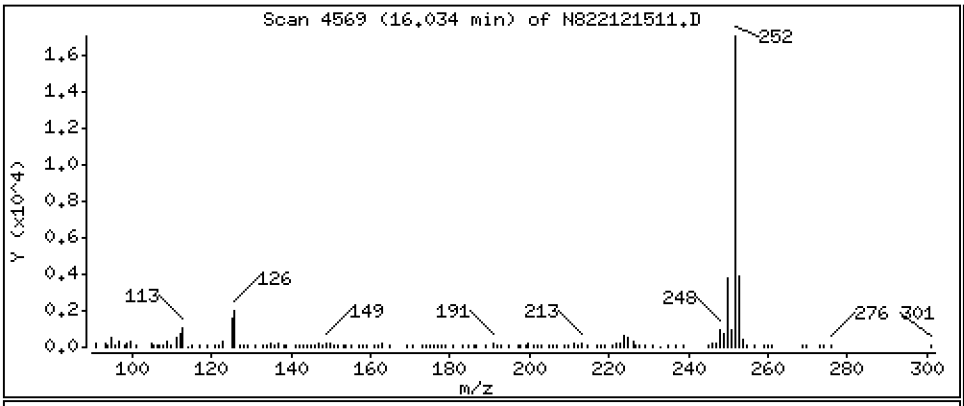
Operator: JZ

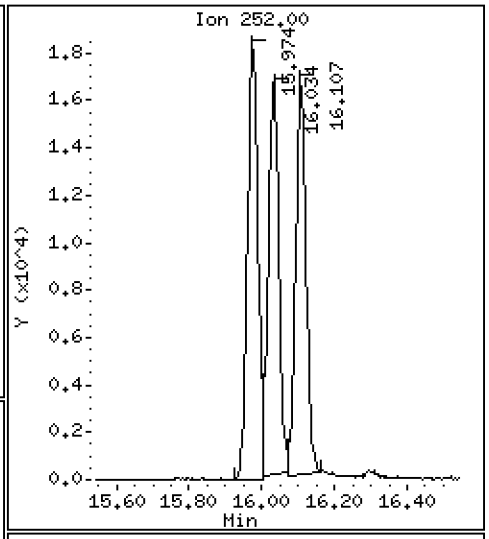
Column phase: Rxi-17sil

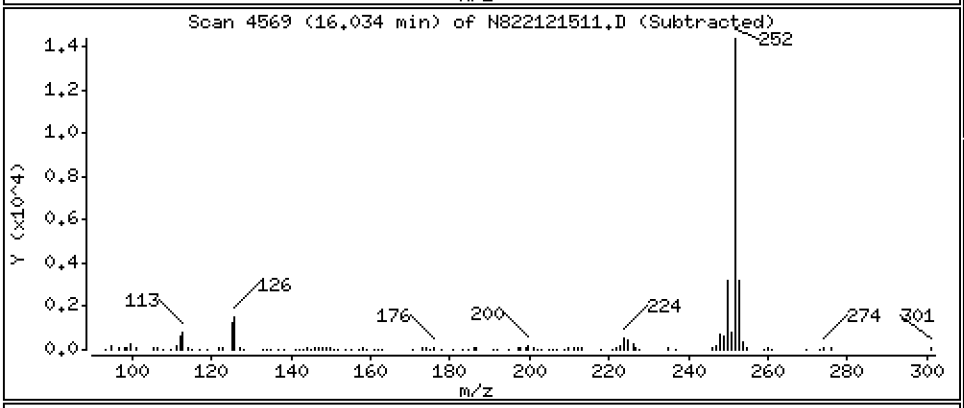
Column diameter: 0.25

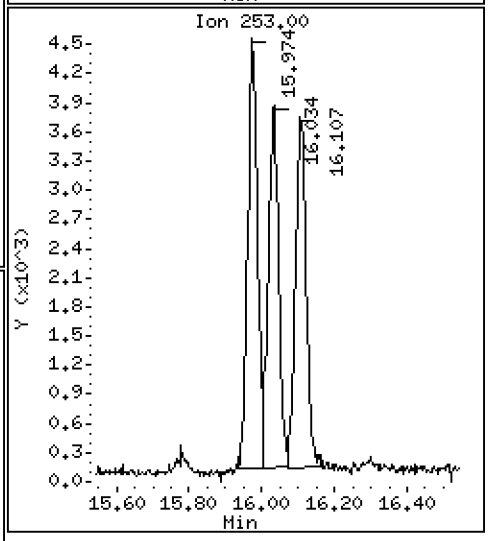
29 Benzo(k)fluoranthene

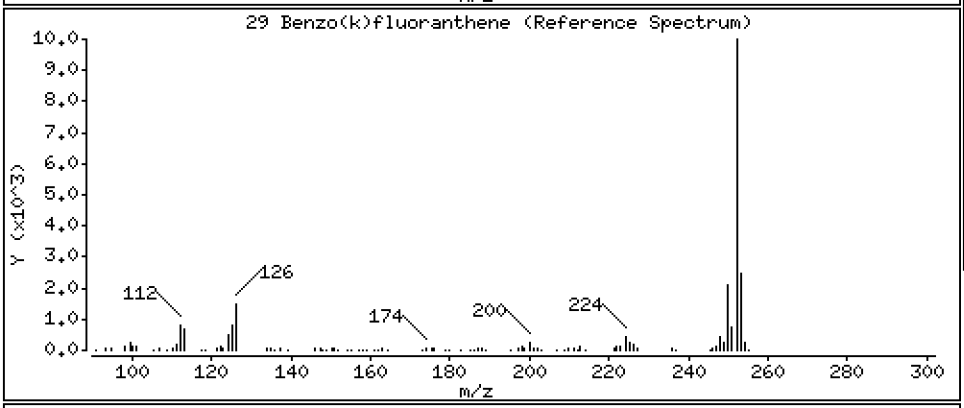
Concentration: 3.045 ug/mL

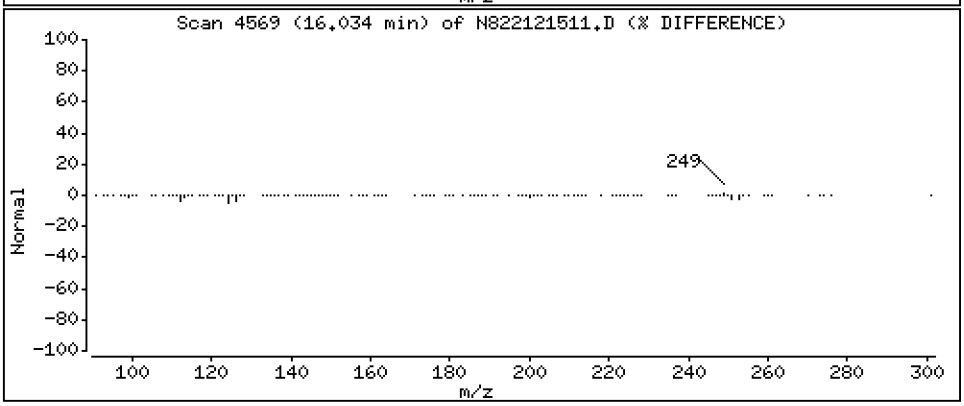












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121511.D

Date : 15-DEC-2022 19:22

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MSD1,3

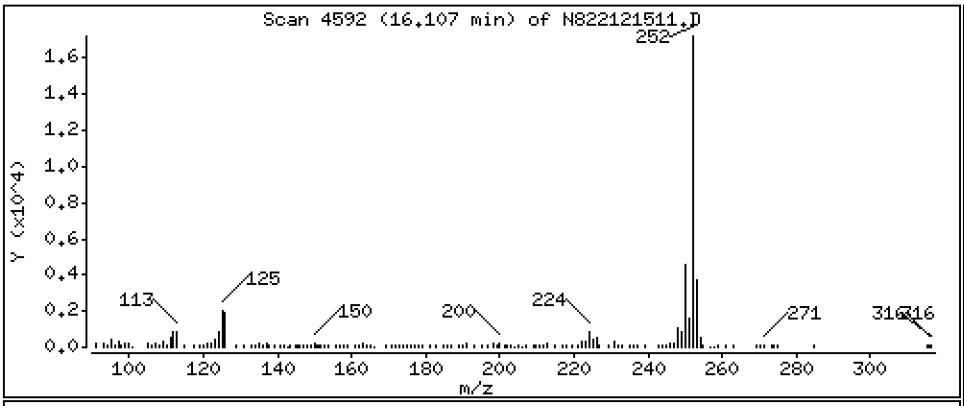
Operator: JZ

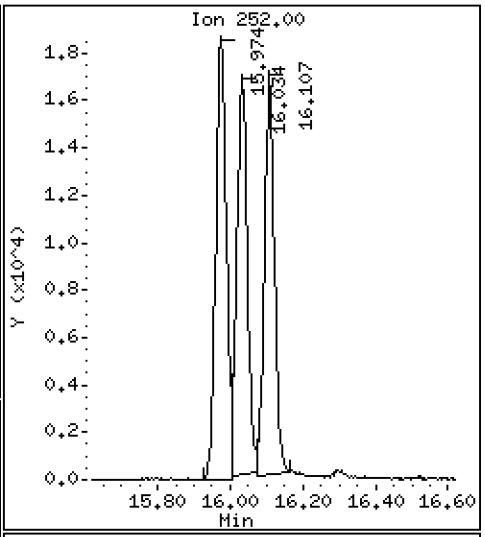
Column phase: Rxi-17sil

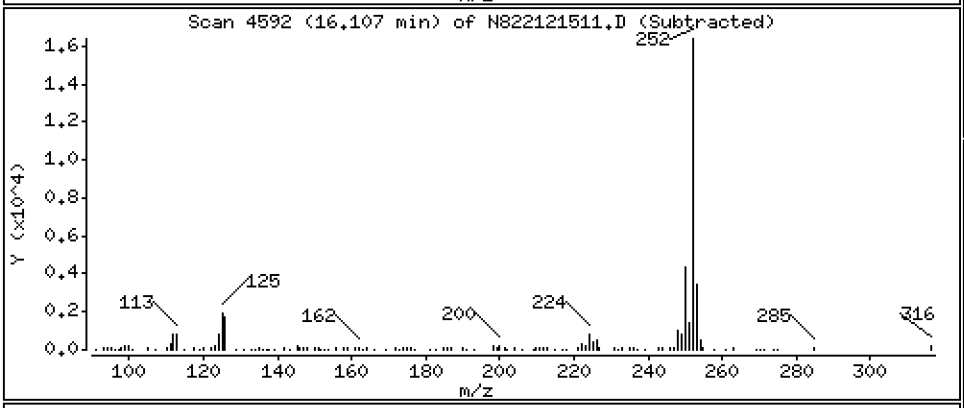
Column diameter: 0.25

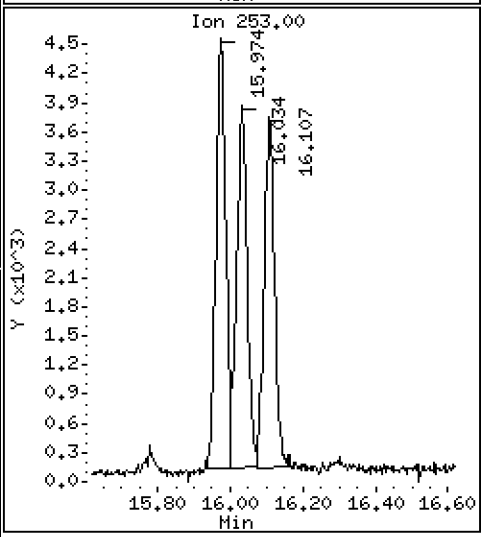
30 Benzo(j)fluoranthene

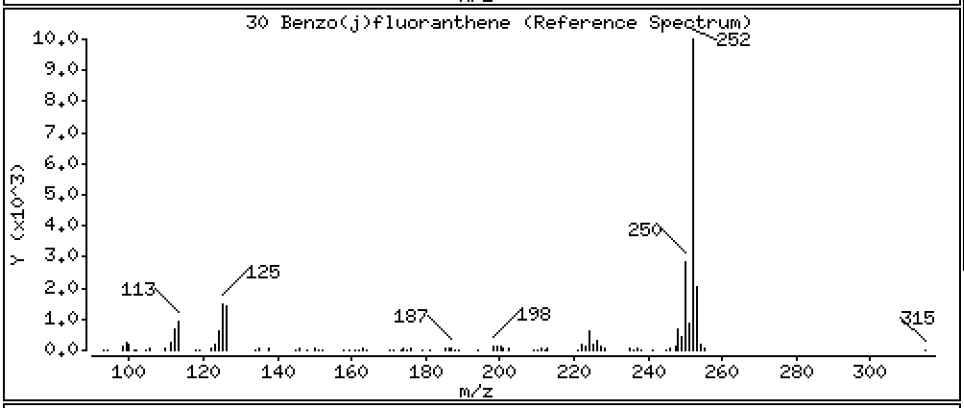
Concentration: 3.250 ug/mL

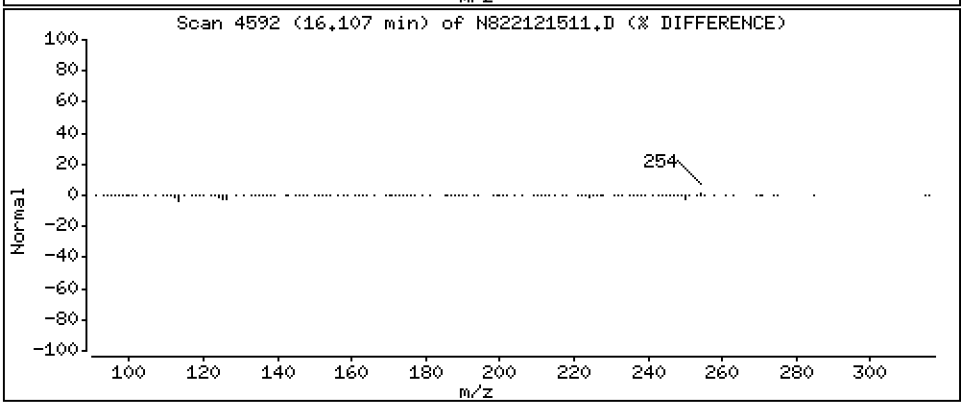












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121511.D

Date : 15-DEC-2022 19:22

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MSD1,3

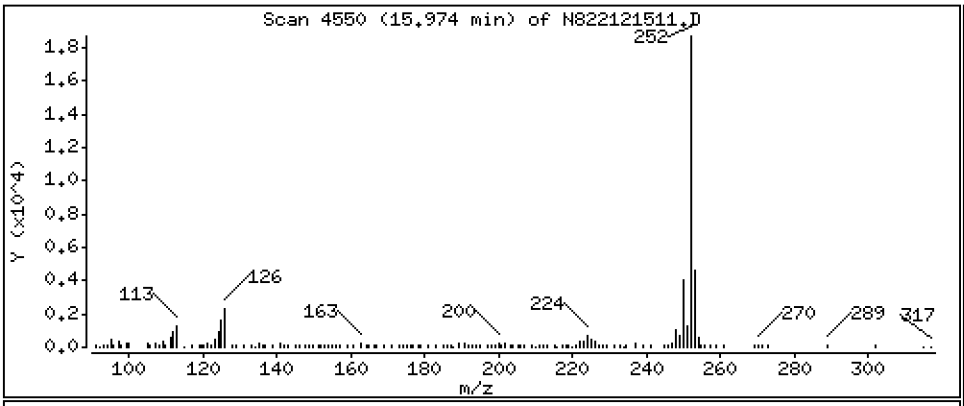
Operator: JZ

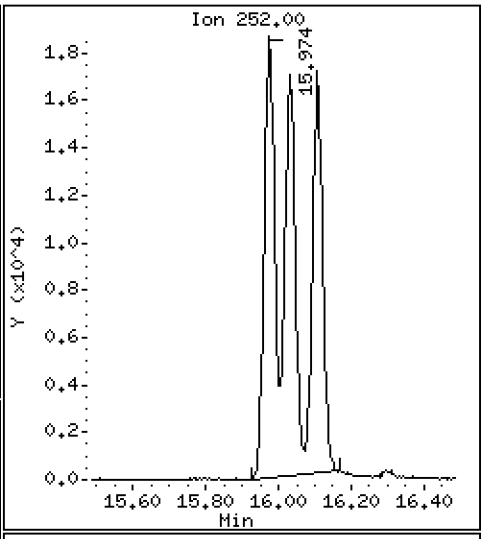
Column phase: Rxi-17sil

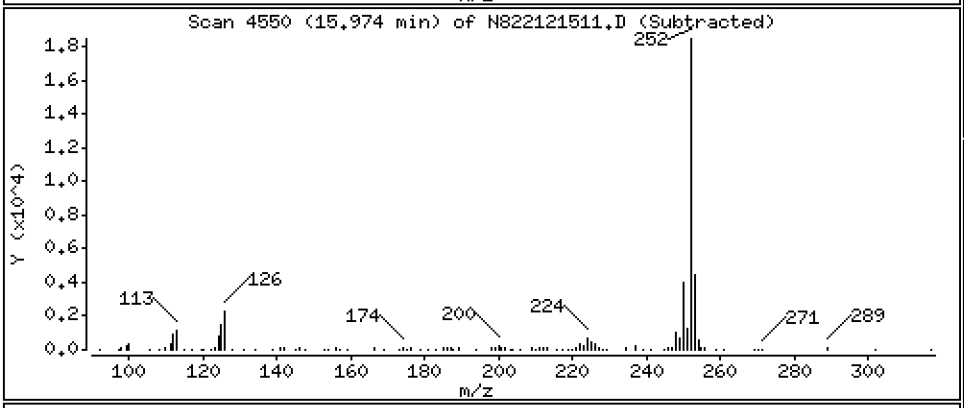
Column diameter: 0.25

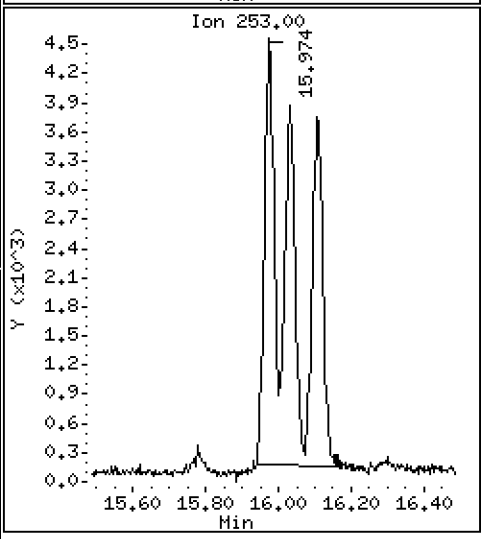
31 Total Benzofluoranthenes

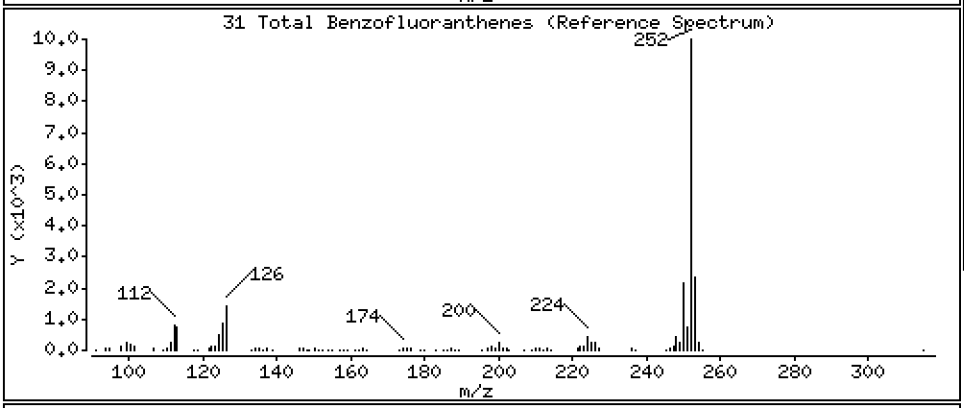
Concentration: 9.418 ug/mL

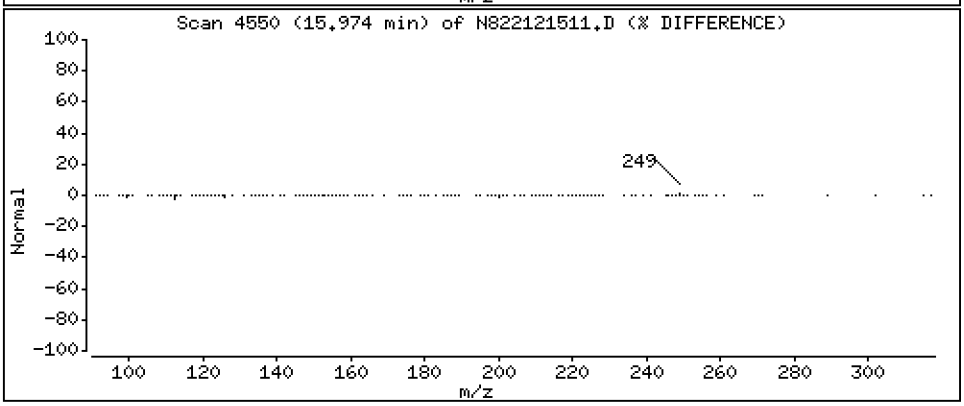












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121511.D

Date : 15-DEC-2022 19:22

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MSD1,3

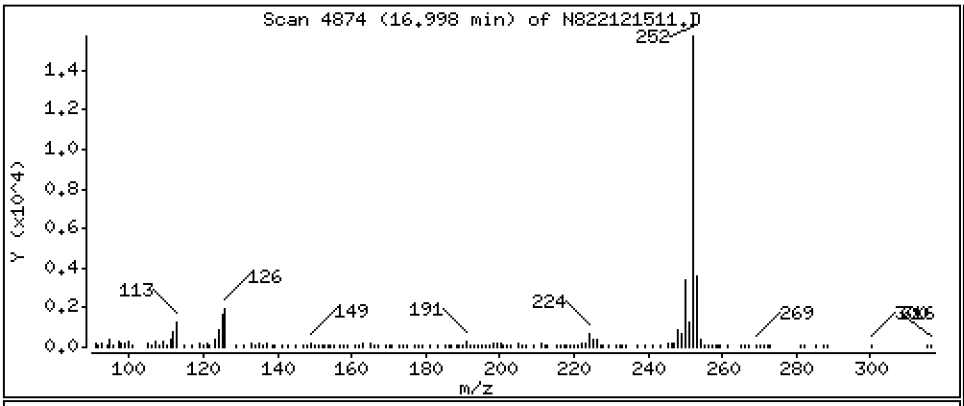
Operator: JZ

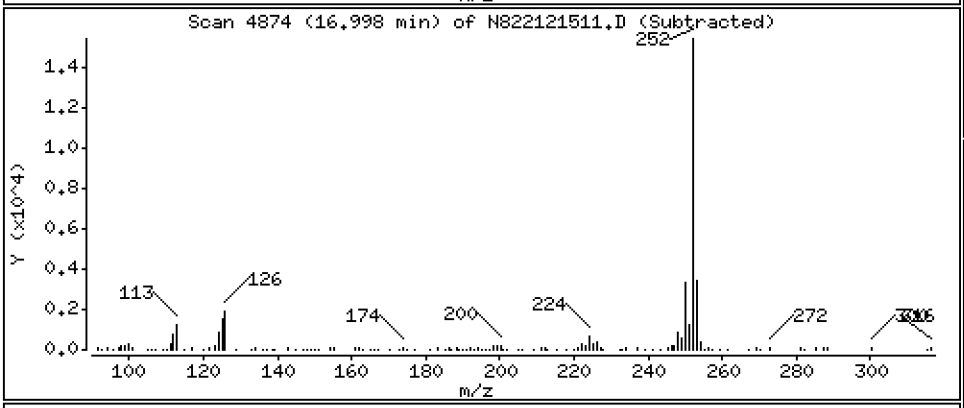
Column phase: Rxi-17sil

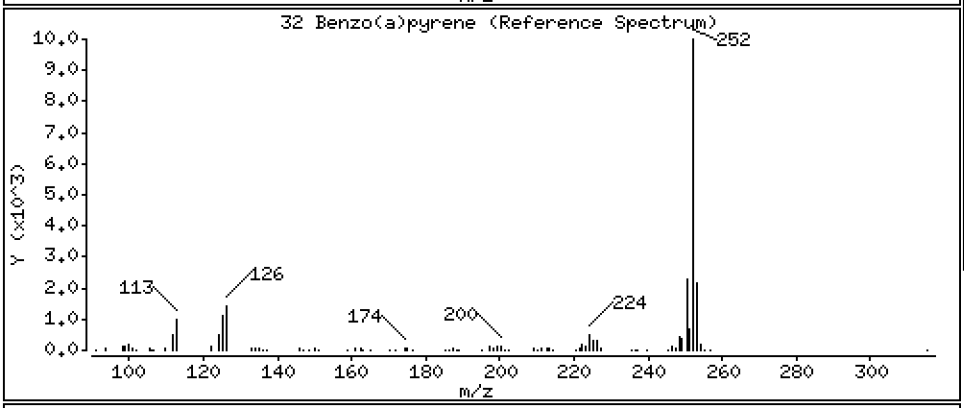
Column diameter: 0.25

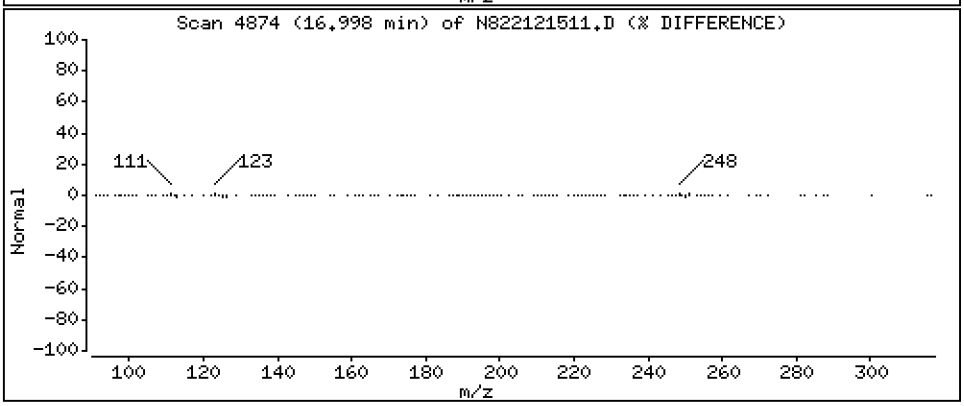
32 Benzo(a)pyrene

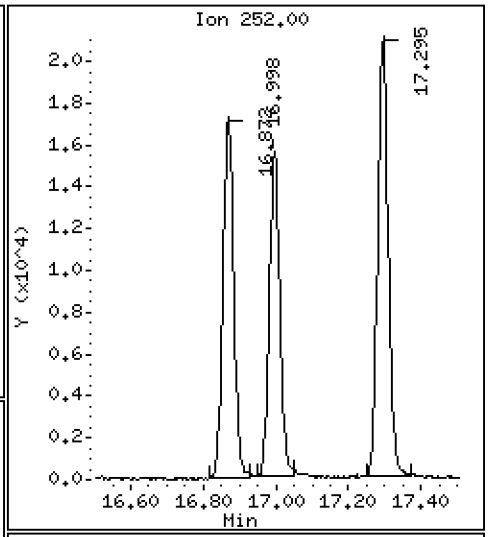
Concentration: 3.274 ug/mL

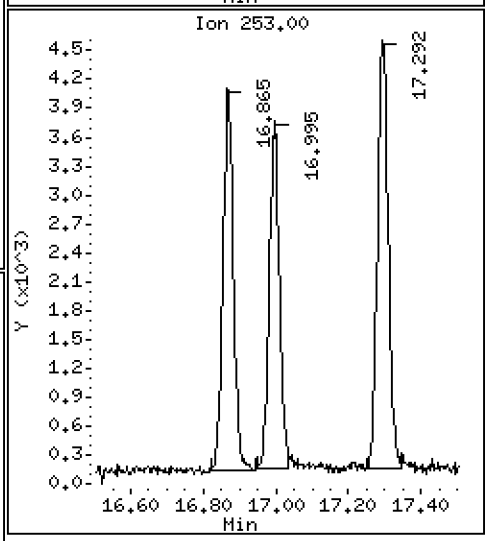












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121511.D

Date : 15-DEC-2022 19:22

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MSD1,3

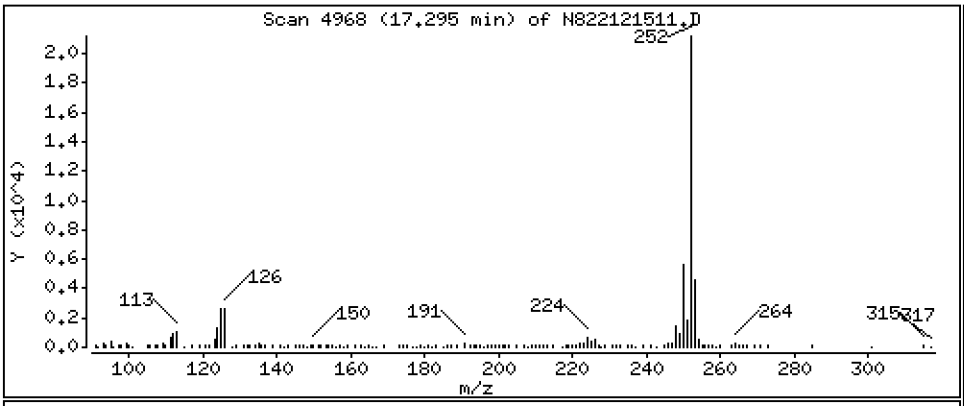
Operator: JZ

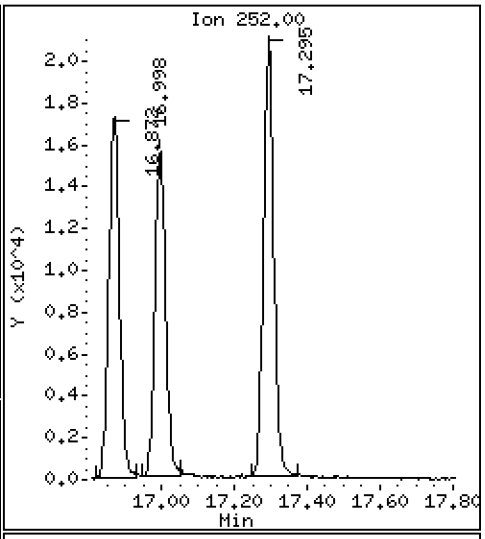
Column phase: Rxi-17sil

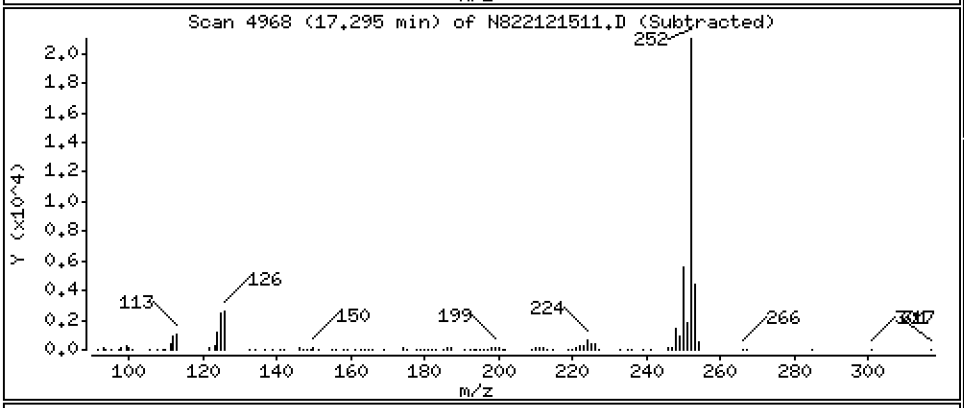
Column diameter: 0.25

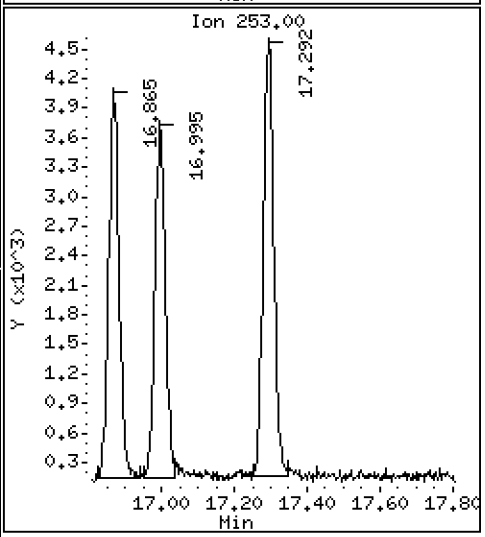
35 Perylene

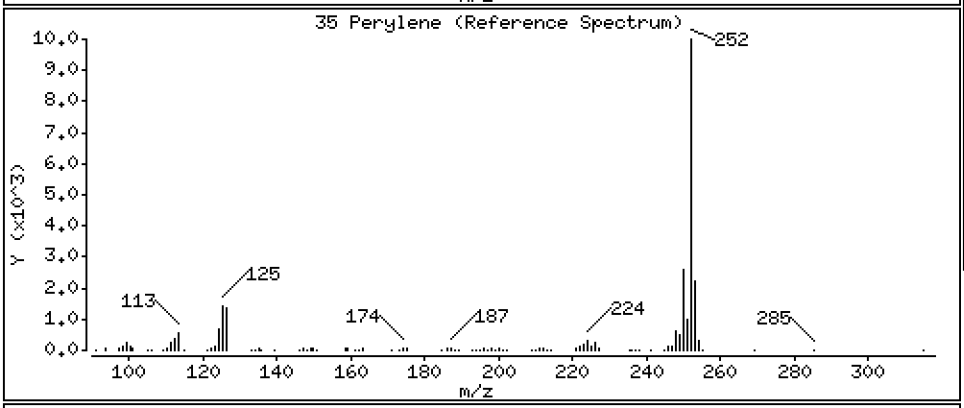
Concentration: 4.295 ug/mL

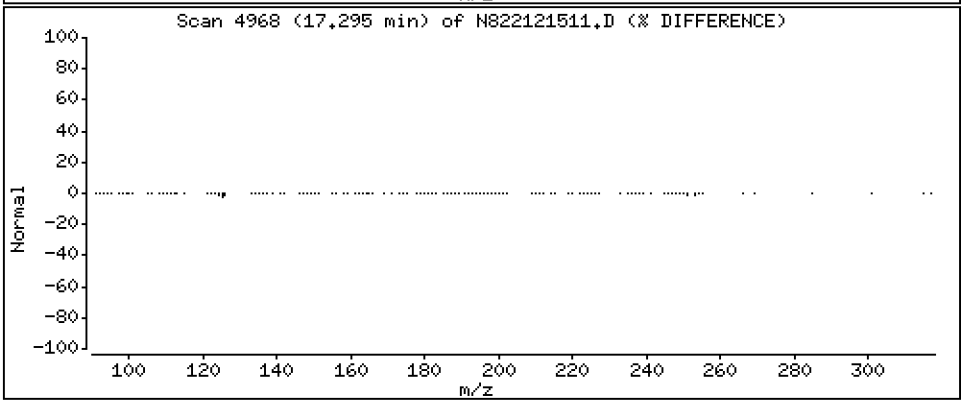












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121511.D

Date : 15-DEC-2022 19:22

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MSD1,3

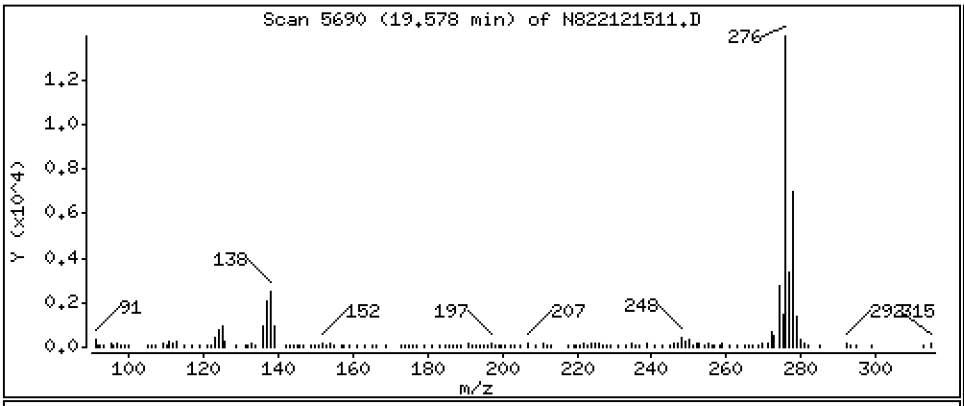
Operator: JZ

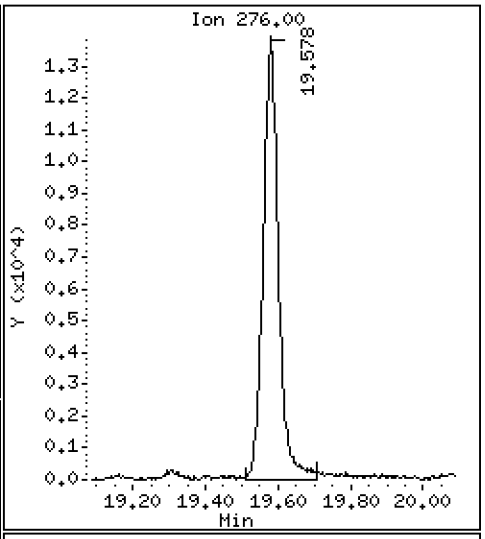
Column phase: Rxi-17sil

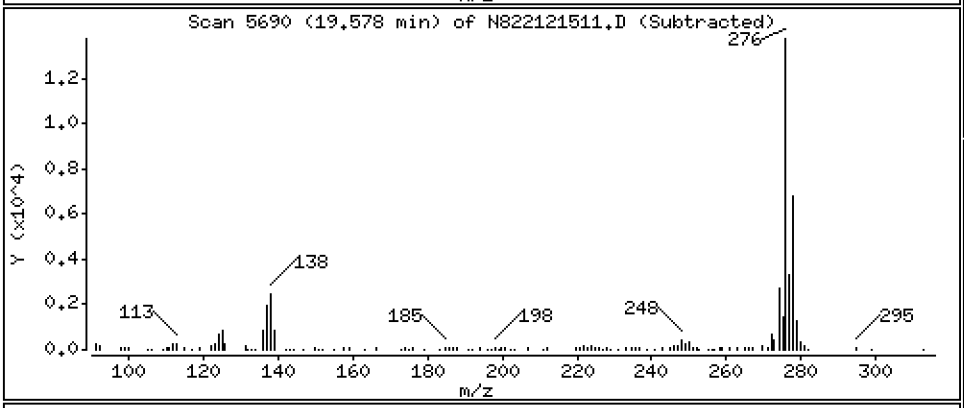
Column diameter: 0.25

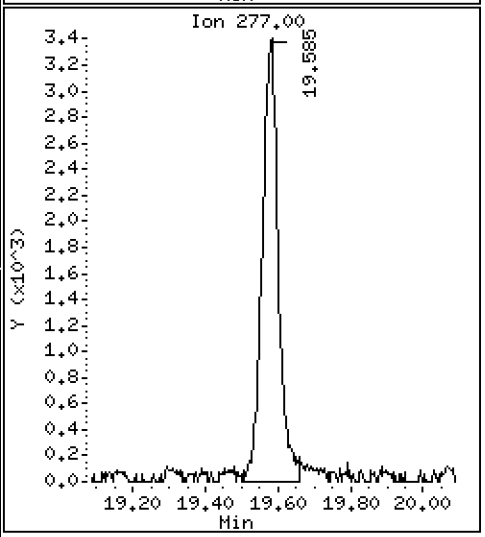
37 Indeno(1,2,3-cd)pyrene

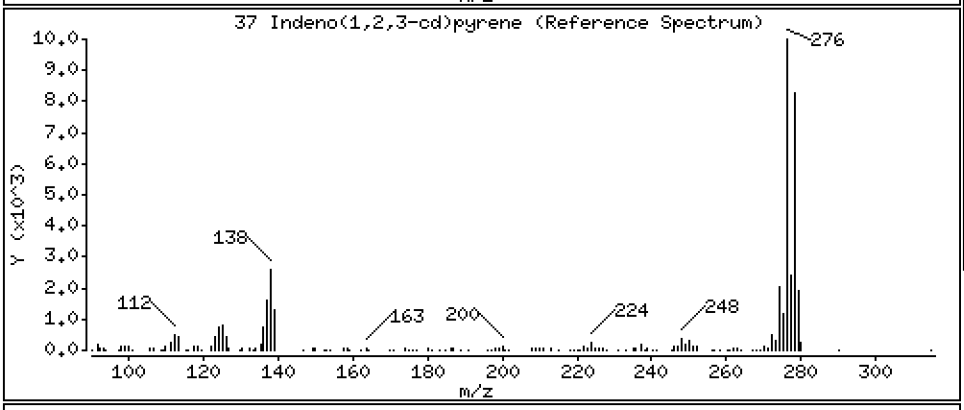
Concentration: 4.288 ug/mL

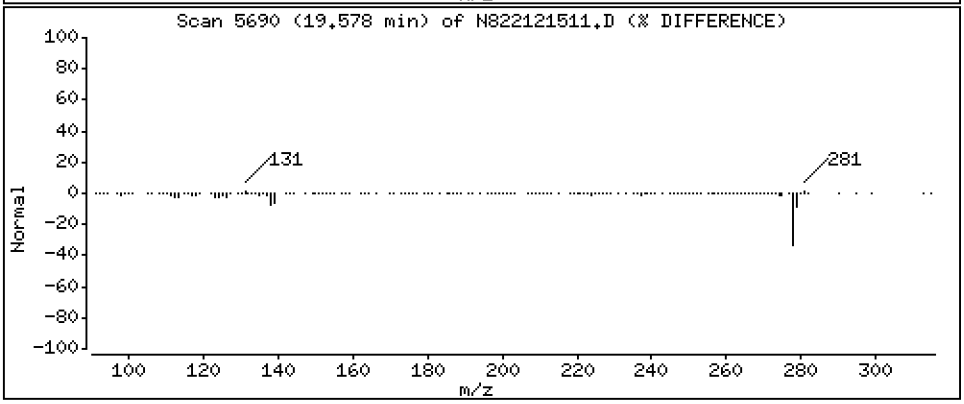












Date : 15-DEC-2022 19:22

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MSD1,3

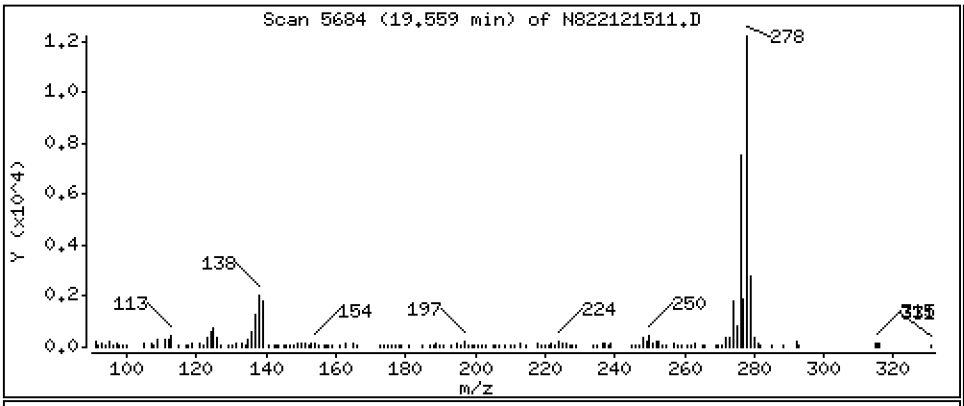
Operator: JZ

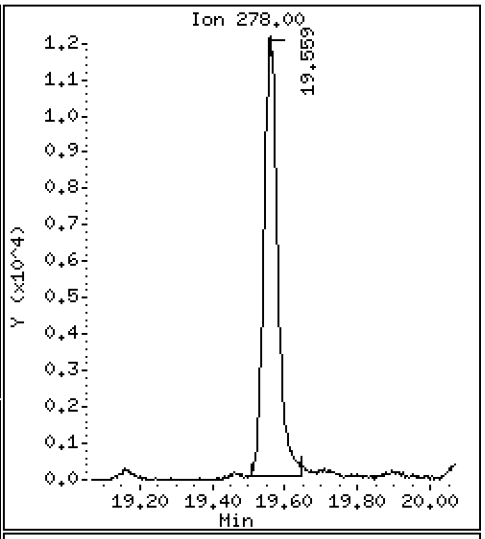
Column phase: Rxi-17sil

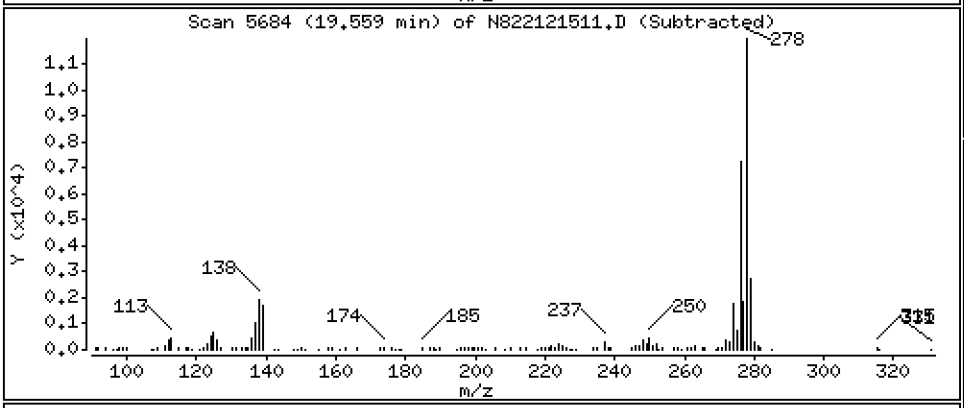
Column diameter: 0.25

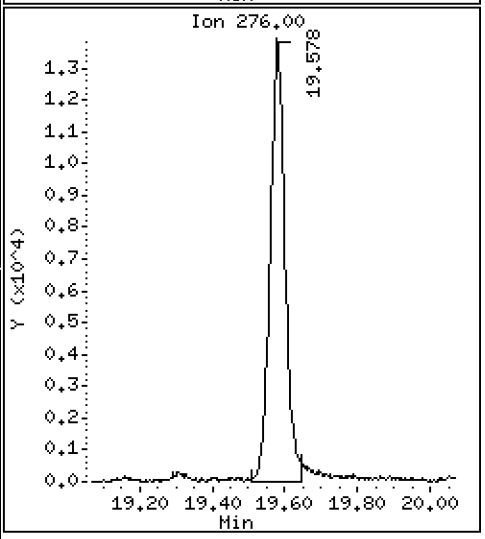
38 Dibenzo(a,h)anthracene

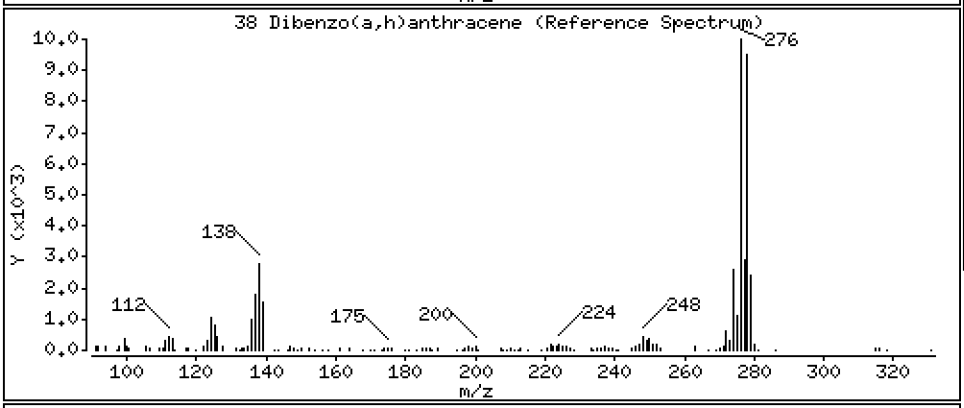
Concentration: 3.901 ug/mL

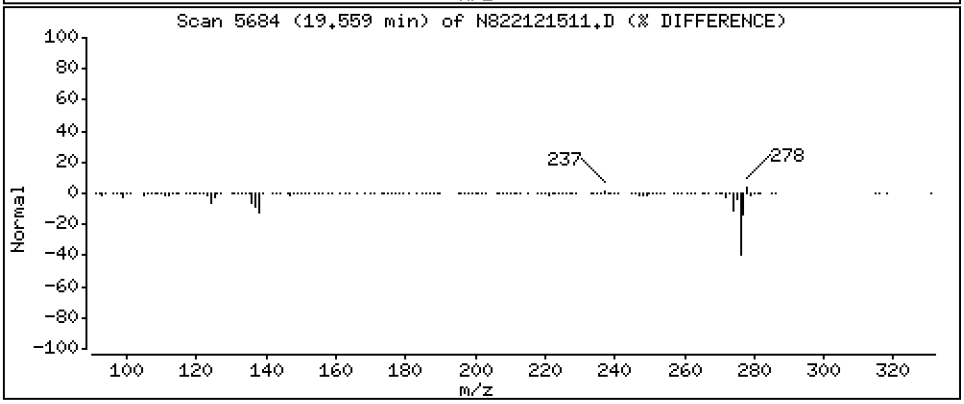












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121511.D

Date : 15-DEC-2022 19:22

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-MSD1,3

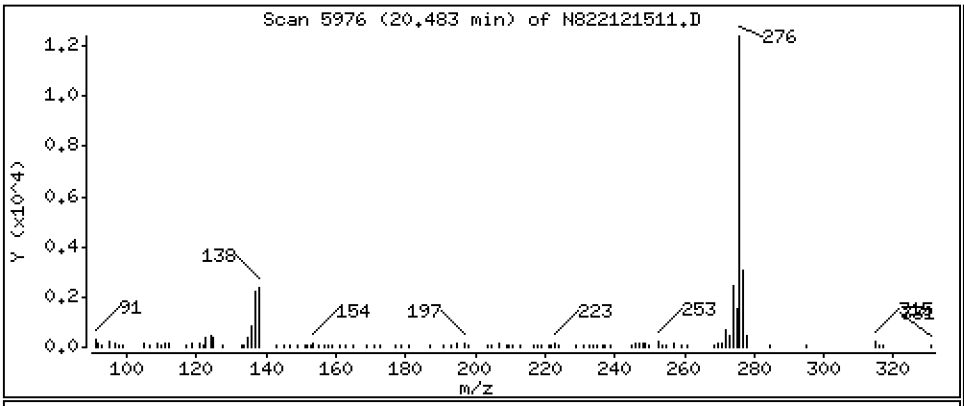
Operator: JZ

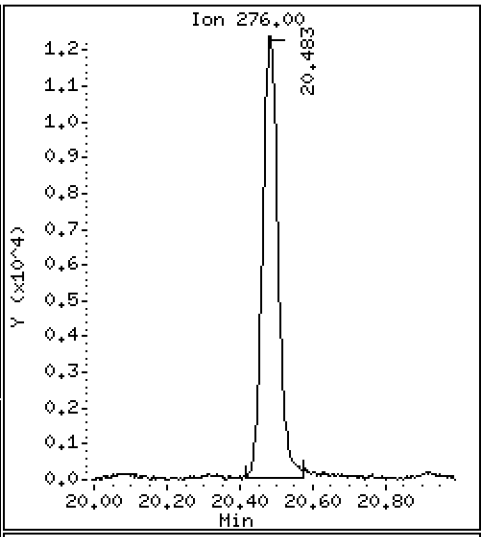
Column phase: Rxi-17sil

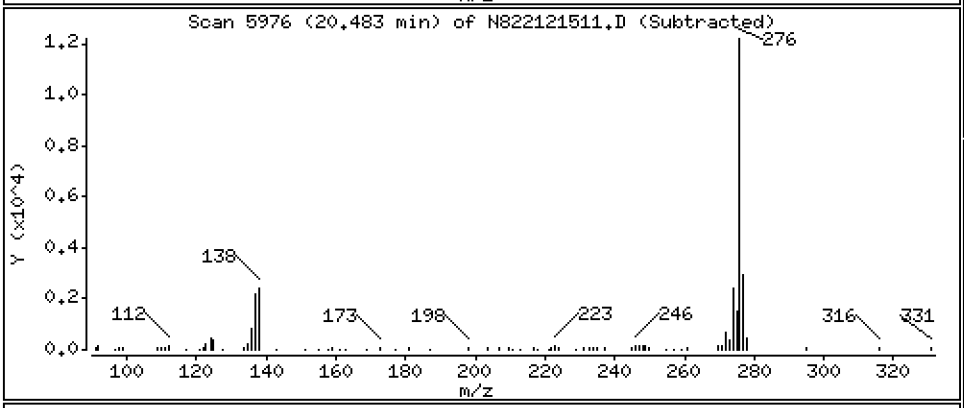
Column diameter: 0.25

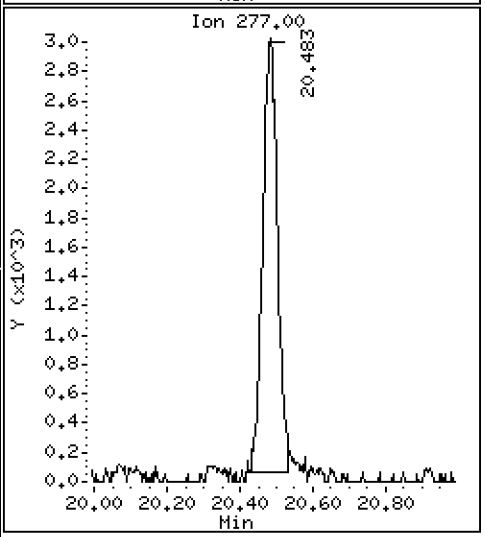
39 Benzo(g,h,i)perylene

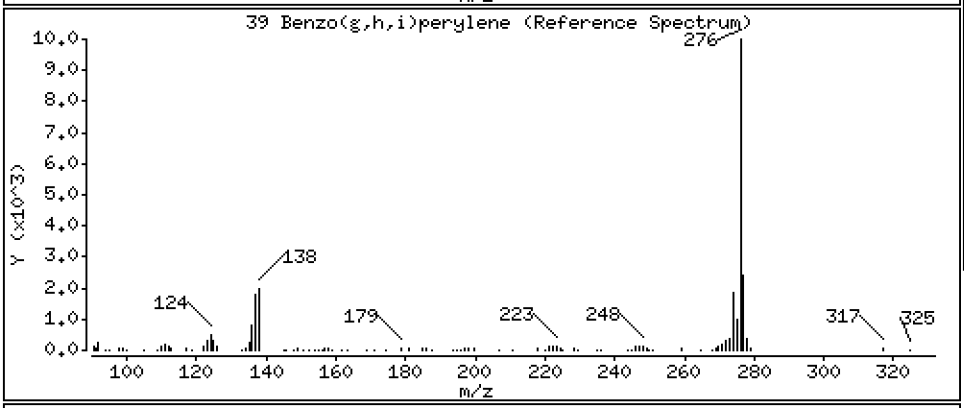
Concentration: 4.161 ug/mL

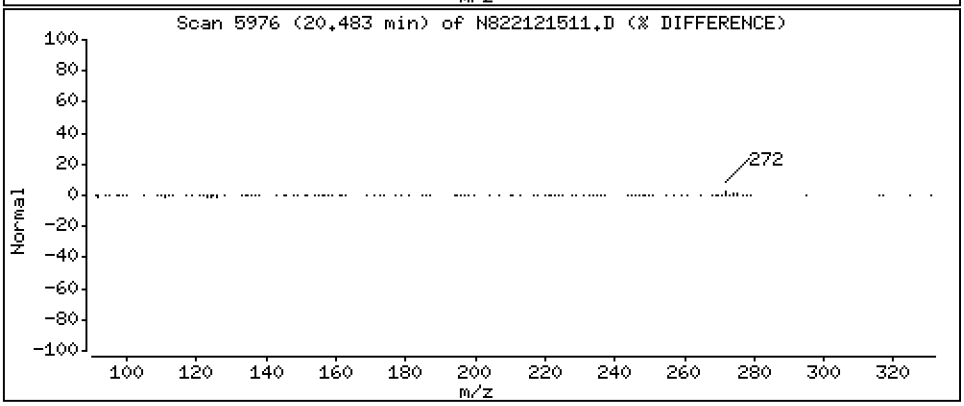












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20221215.b\N822121511.D
Lab Smp Id: BKL0196-MSD1
Inj Date : 15-DEC-2022 19:22
Operator : JZ Inst ID: nt8.i
Smp Info : BKL0196-MSD1,3
Misc Info : 22-
Comment   : 1ul Injection
Method   : \\target\share\chem3\nt8.i\20221215.b\FSIMPNA220411.m
Meth Date : 16-Dec-2022 15:49 jianqing Quant Type: ISTD
Cal Date : 12-APR-2022 15:49 Cal File: NT822041208.D
Als bottle: 11
Dil Factor: 3.00000
Integrator: HP RTE Compound Sublist: PNAXMDL.sub
Target Version: 4.14
Processing Host: JIANQING-202105

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
*	1 Naphthalene-d8	136	4.511	4.521	(1.000)	45573	2.00000	
	2 Naphthalene	128	4.540	4.549	(1.006)	20418	0.88420	2.653
$	3 2-Methylnaphthalene-d10	152	5.238	5.248	(1.161)	8644	0.50289	1.509
	4 2-Methylnaphthalene	141	5.286	5.295	(1.172)	12548	0.95499	2.865
	5 1-methylnaphthalene	141	5.482	5.488	(1.215)	12405	0.96543	2.896
	9 Acenaphthylene	152	6.671	6.677	(0.984)	23563	0.95750	2.873
*	10 Acenaphthene-d10	164	6.778	6.785	(1.000)	28482	2.00000	
	11 Acenaphthene	153	6.829	6.835	(1.007)	16197	0.99196	2.976
	12 Dibenzofuran	168	6.981	6.987	(1.030)	23574	1.02907	3.087
	14 Fluorene	166	7.452	7.458	(1.099)	20201	1.09615	3.288
*	15 Phenanthrene-d10	188	8.802	8.805	(1.000)	53104	2.00000	
	16 Phenanthrene	178	8.837	8.840	(1.004)	33827	1.20077	3.602
	17 Anthracene	178	8.875	8.881	(1.008)	29095	1.07829	3.235
	22 Fluoranthene	202	10.509	10.512	(1.194)	44425	1.44127	4.324
$	21 Fluoranthene-d10	212	10.475	10.478	(1.190)	20132	0.57331	1.720
	23 Pyrene	202	10.993	10.984	(0.818)	48534	1.49838	4.495
	24 Benzo(a)anthracene	228	13.324	13.333	(0.991)	38006	1.25471	3.764
*	25 Chrysene-d12	240	13.447	13.453	(1.000)	47924	2.00000	
	27 Chrysene	228	13.516	13.526	(1.005)	38258	1.32183	3.965
	28 Benzo(b)fluoranthene	252	15.973	15.986	(0.927)	38213	1.06292	3.189
	29 Benzo(k)fluoranthene	252	16.033	16.043	(0.931)	33846	1.01488	3.045
	30 Benzo(j)fluoranthene	252	16.106	16.119	(0.935)	33194	1.08343	3.250
	31 Total Benzofluoranthenes	252	15.973	15.986	(0.927)	104094	3.13927	9.418(M)
	32 Benzo(a)pyrene	252	16.998	17.004	(0.987)	32384	1.09124	3.274
*	33 Perylene-d12	264	17.222	17.229	(1.000)	50635	2.00000	
	35 Perylene	252	17.295	17.308	(1.004)	42549	1.43180	4.295
$	36 Dibenzo(a,h)anthracene-d14	292	19.461	19.470	(1.130)	18984	0.87274	2.618
	37 Indeno(1,2,3-cd)pyrene	276	19.578	19.587	(1.137)	41598	1.42918	4.288
	38 Dibenzo(a,h)anthracene	278	19.559	19.568	(1.136)	32650	1.30034	3.901
	39 Benzo(g,h,i)perylene	276	20.482	20.492	(1.189)	37550	1.38687	4.161

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt8.i
Lab File ID: N822121511.D
Lab Smp Id: BKL0196-MSD1
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: \\target\share\chem3\nt8.i\20221215.b\FSIMPNA220411.m
Misc Info: 22-

Calibration Date: 15-DEC-2022
Calibration Time: 10:02
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	49492	24746	98984	45573	-7.92
10 Acenaphthene-d10	30076	15038	60152	28482	-5.30
15 Phenanthrene-d10	58825	29413	117650	53104	-9.73
25 Chrysene-d12	58593	29297	117186	47924	-18.21
33 Perylene-d12	63012	31506	126024	50635	-19.64

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	4.52	4.02	5.02	4.51	-0.21
10 Acenaphthene-d10	6.79	6.29	7.29	6.78	-0.09
15 Phenanthrene-d10	8.81	8.31	9.31	8.80	-0.04
25 Chrysene-d12	13.45	12.95	13.95	13.45	-0.05
33 Perylene-d12	17.23	16.73	17.73	17.22	-0.04

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

REVIEW SUMMARY FOR FILE - N822121511.D

Lab ID: BKL0196-MSD1
nt8.i, 20221215.b\FSIMPNA220411.m,   15-DEC-2022 19:22

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

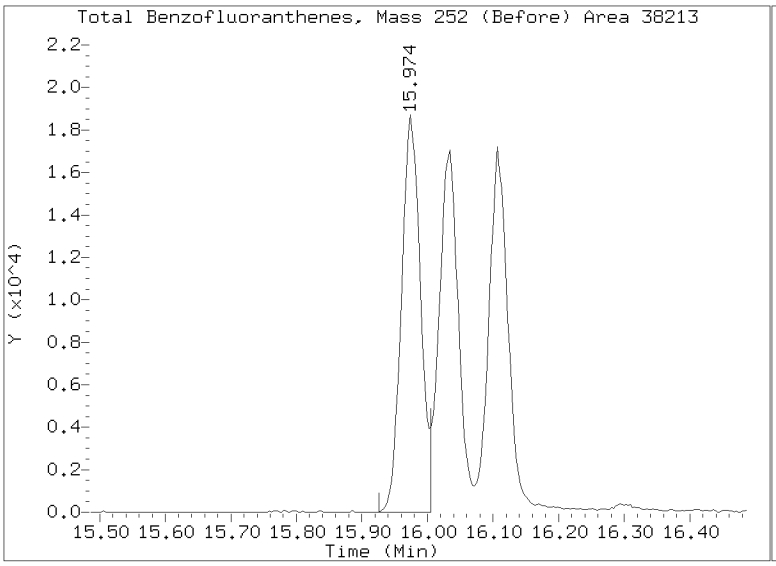
No RRT check performed

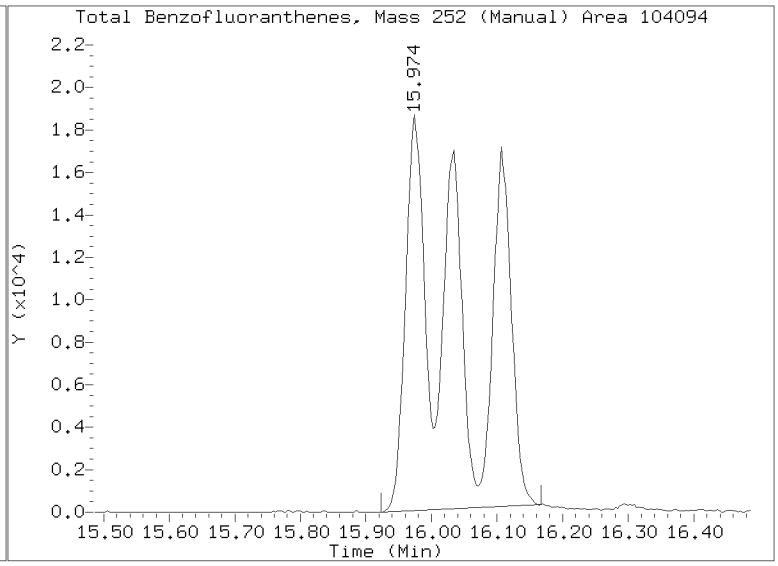
On Column LOD for nt8.i, 20221215.b\FSIMPNA220411.m, PNAXMDL.sub = 0.0080

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20221215.b/N822121511.D
Injection Date: 15-DEC-2022 19:22
Lab ID:BKL0196-MSD1 Client ID:
Report Date: 12/16/2022 16:17





Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0196-SRM1
Batch: BKL0196
Initial/Final: 5 g / 0.5 mL
Preparation: EPA 3546 (Microwave)
Analyzed: 12/15/2022 18:01
Standard ID: J007238
Expires: 01/09/2026
Standard Lot#: SQC017 (LRAC9745)
Description: SQC017-40G PAHs by HPLC40g

ANALYTE	TRUE (ug/kg wet)	FOUND (ug/kg wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Naphthalene	566.00	216	2.55	10.0		38.2	18 - 182
Acenaphthylene	609.00	249	2.17	10.0		40.8	23 - 177
Acenaphthene	459.00	219	1.14	10.0		47.7	34 - 166
Fluorene	326.00	169	1.26	10.0		51.9	41 - 159
Phenanthrene	220.00	111	1.44	10.0		50.5	42 - 157
Anthracene	239.00	85.2	1.74	10.0		35.7	11 - 189
Fluoranthene	273.00	146	0.94	10.0		53.6	41 - 159
Pyrene	380.00	173	1.25	10.0		45.5	36 - 164
Benzo(a)anthracene	109.00	50.0	1.65	10.0		45.9	31 - 170
Chrysene	210.00	110	2.11	10.0		52.3	13 - 186
Benzo(b)fluoranthene	295.00	156	2.74	10.0		53.0	33 - 167
Benzo(k)fluoranthene	259.00	145	1.52	10.0		56.0	14 - 186
Benzo(a)pyrene	65.500	26.3	1.23	10.0		40.1	24 - 176
Indeno(1,2,3-cd)pyrene	208.00	138	2.10	10.0		66.3	0 - 208
Dibenzo(a,h)anthracene	177.00	124	1.78	10.0		69.8	0 - 214
Benzo(g,h,i)perylene	176.00	117	2.13	10.0		66.6	10 - 191

* Values outside of QC limits

Data File: \\target\share\chem3\nt8.i\20221215.b\N822121508.D

Page 1

Date : 15-DEC-2022 18:01

Client ID:

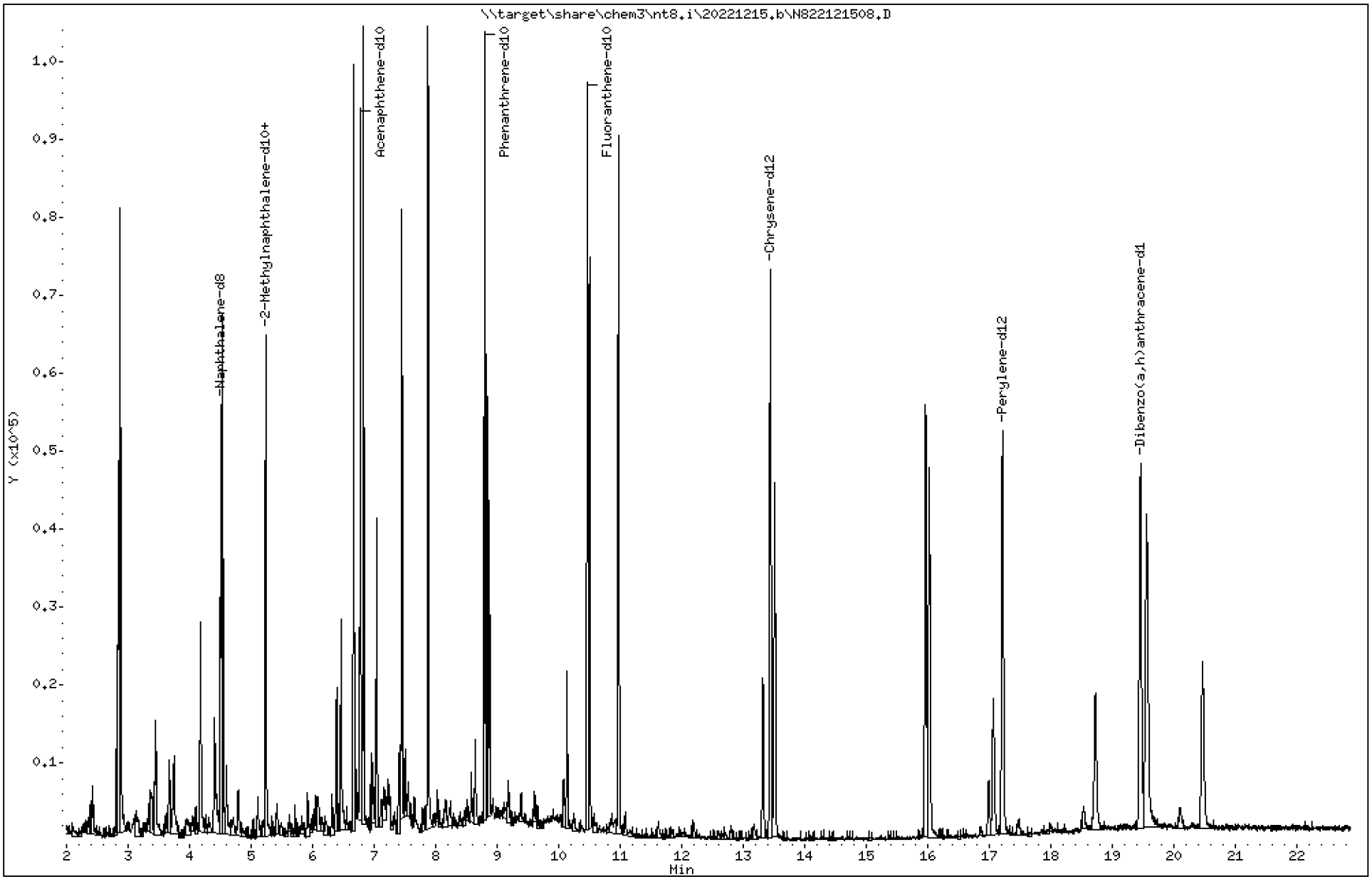
Instrument: nt8.i

Sample Info: BKL0196-SRM1,

Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25



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Date : 15-DEC-2022 18:01

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-SRM1,

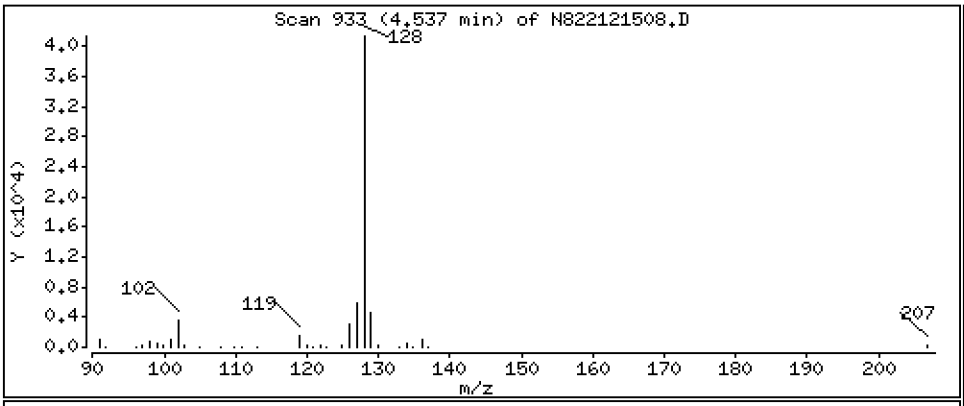
Operator: JZ

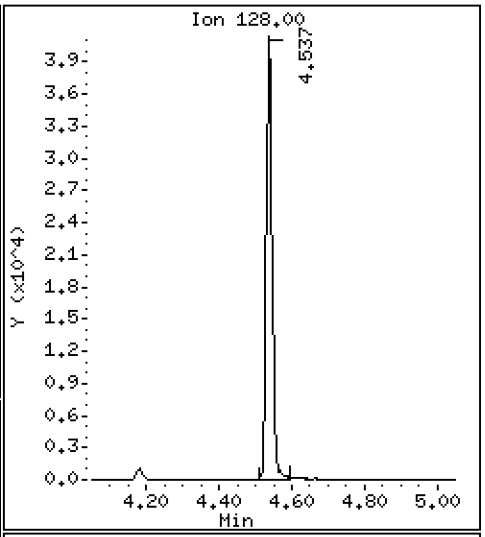
Column phase: Rxi-17sil

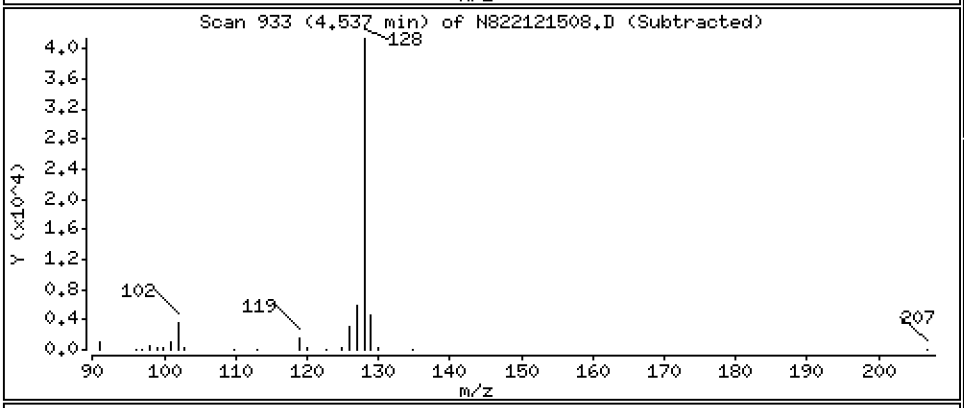
Column diameter: 0.25

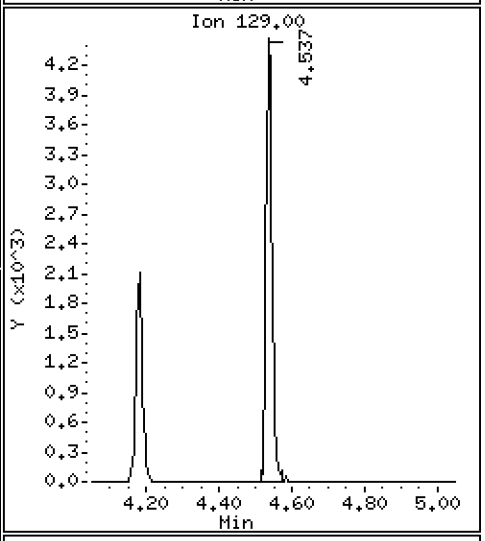
2 Naphthalene

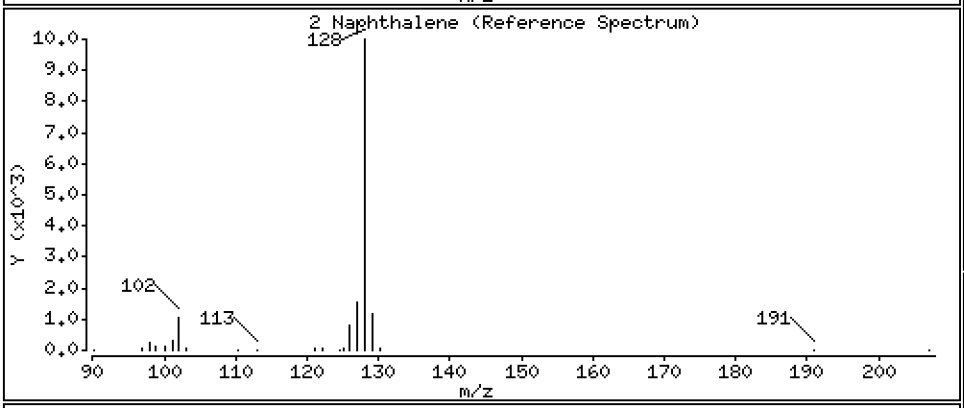
Concentration: 2.161 ug/mL

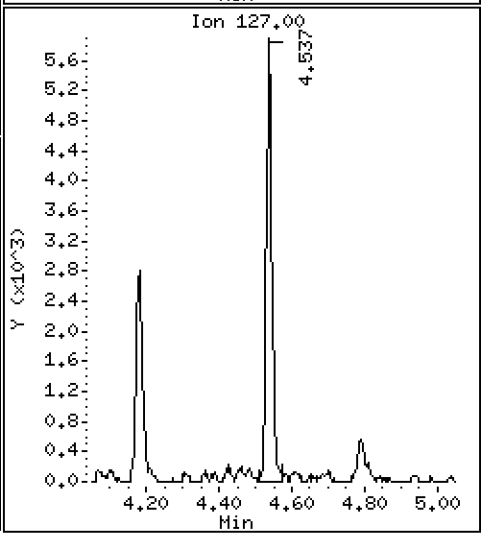


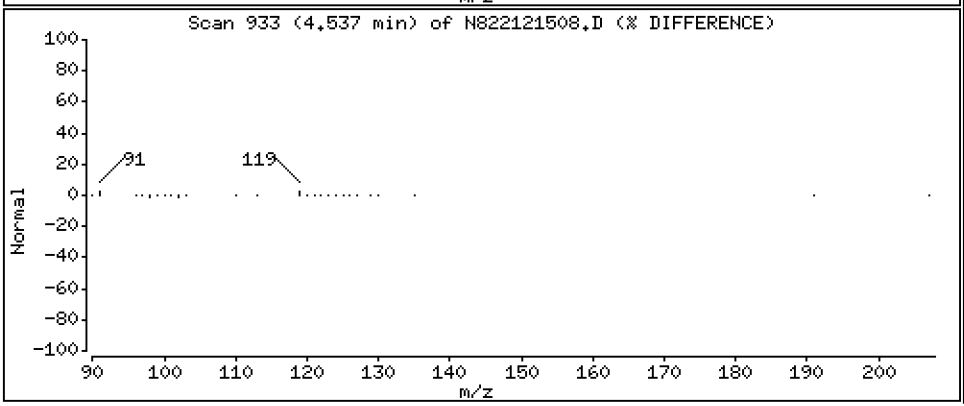












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Date : 15-DEC-2022 18:01

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-SRM1,

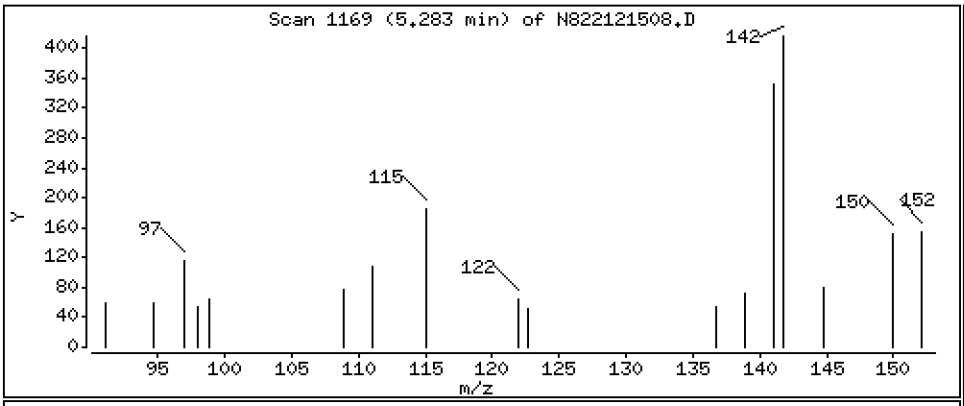
Operator: JZ

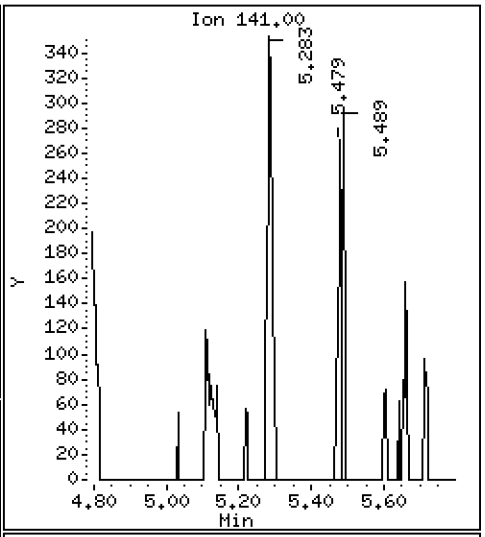
Column phase: Rxi-17sil

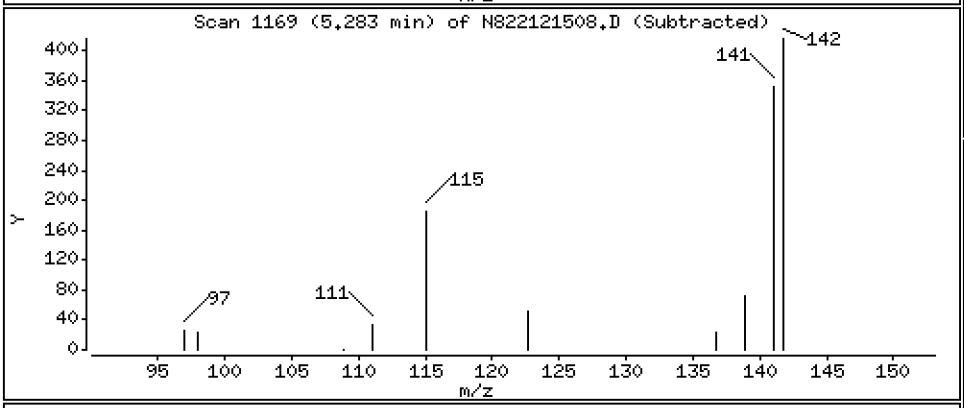
Column diameter: 0.25

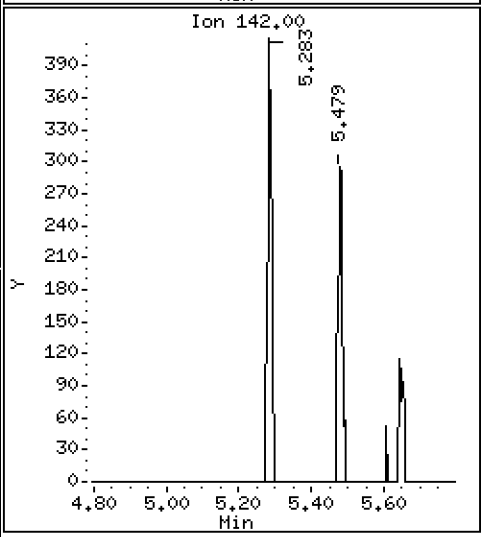
4 2-Methylnaphthalene

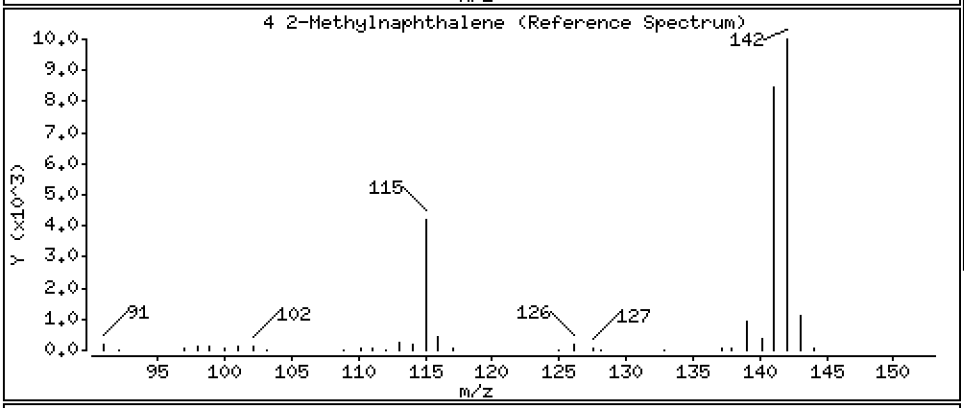
Concentration: 0.02879 ug/mL

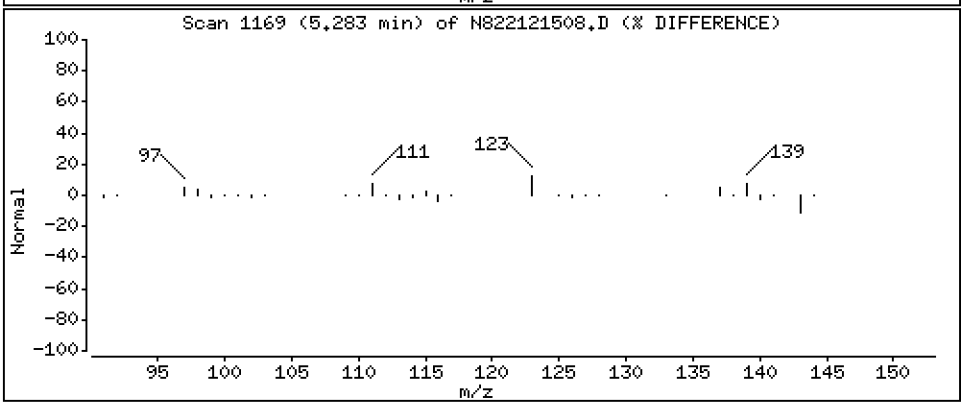












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Date : 15-DEC-2022 18:01

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-SRM1,

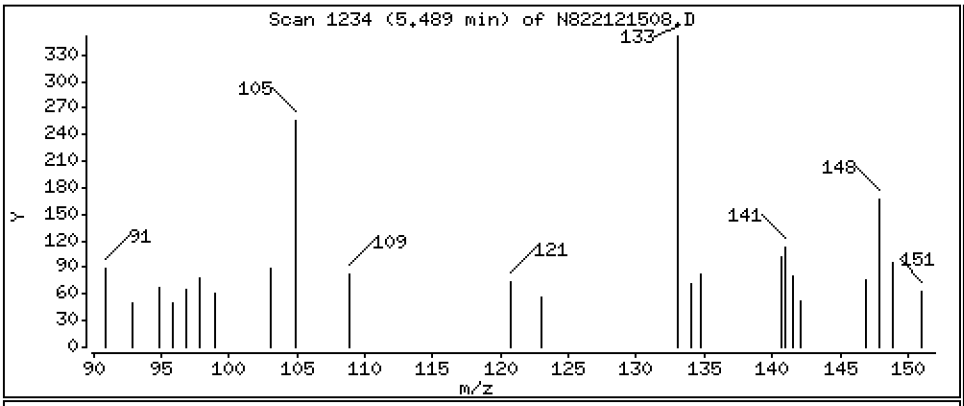
Operator: JZ

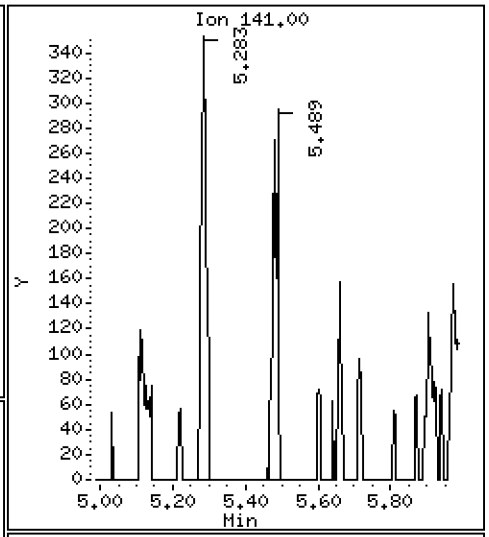
Column phase: Rxi-17sil

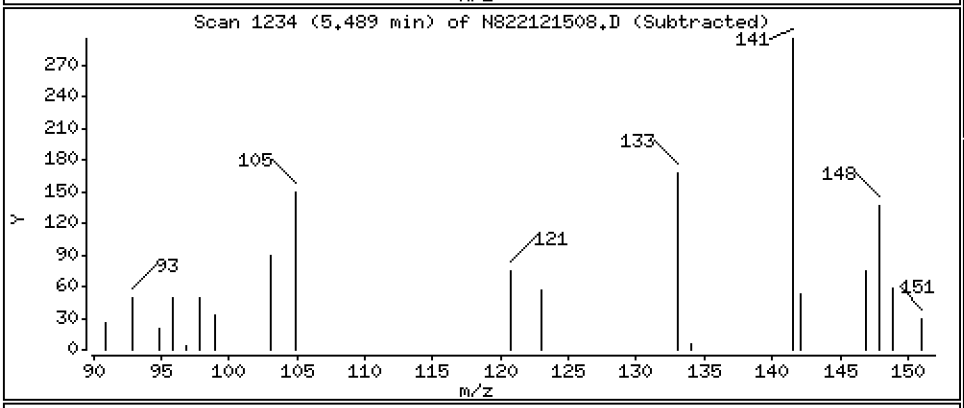
Column diameter: 0.25

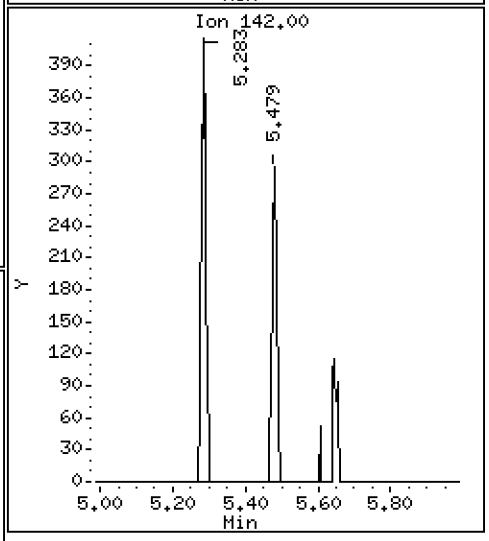
5 1-methylnaphthalene

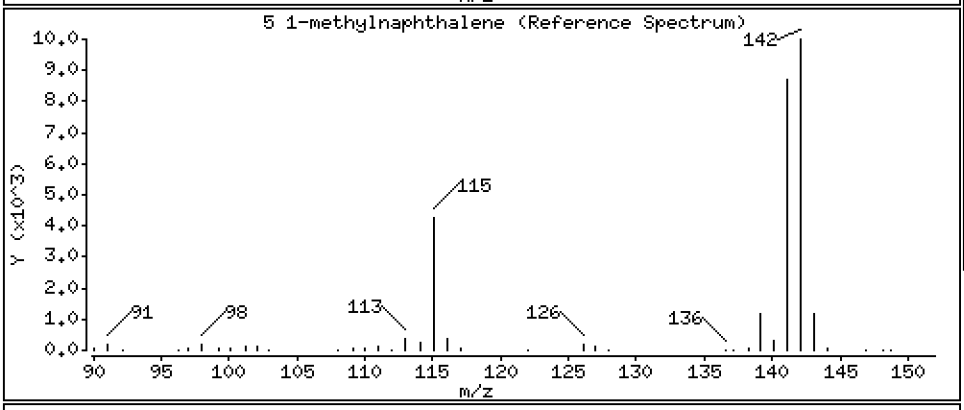
Concentration: 0.02237 ug/mL

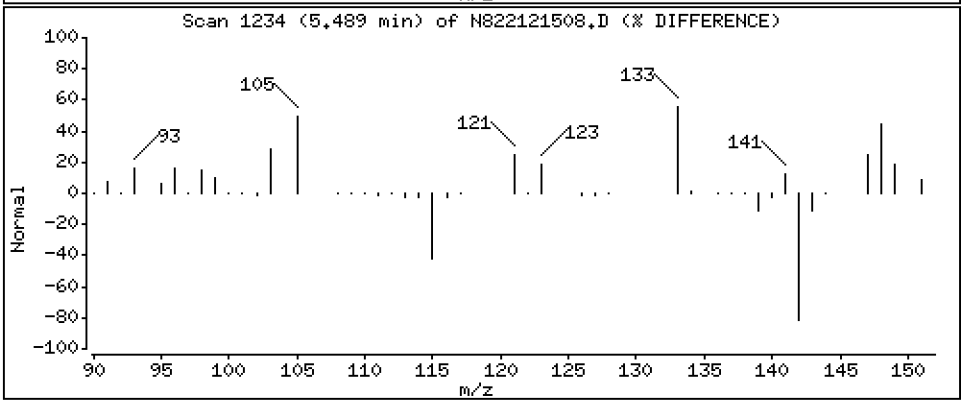












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Date : 15-DEC-2022 18:01

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-SRM1,

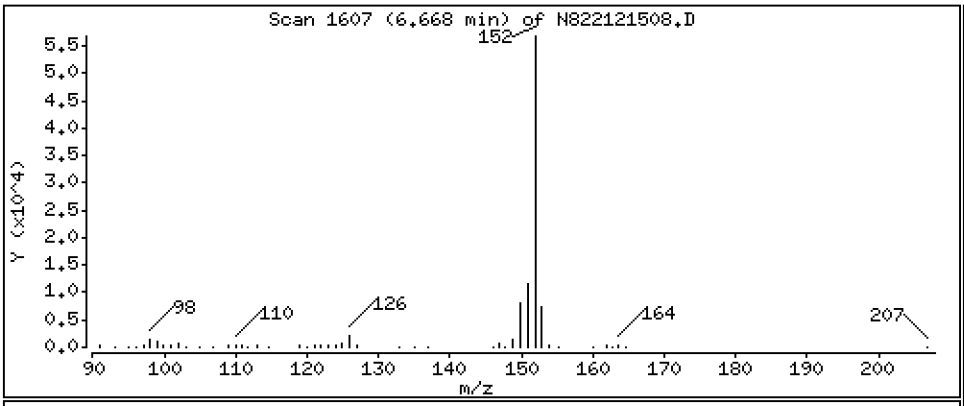
Operator: JZ

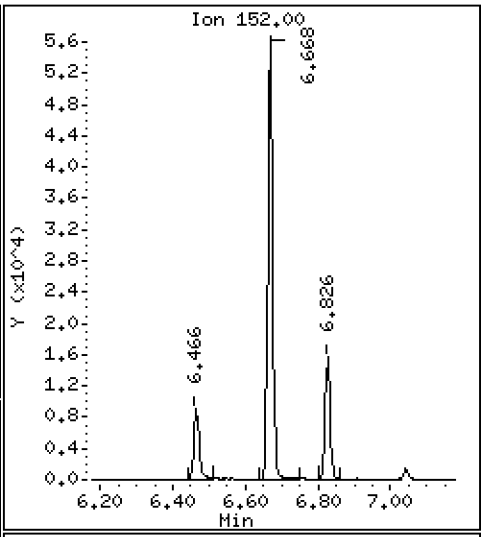
Column phase: Rxi-17sil

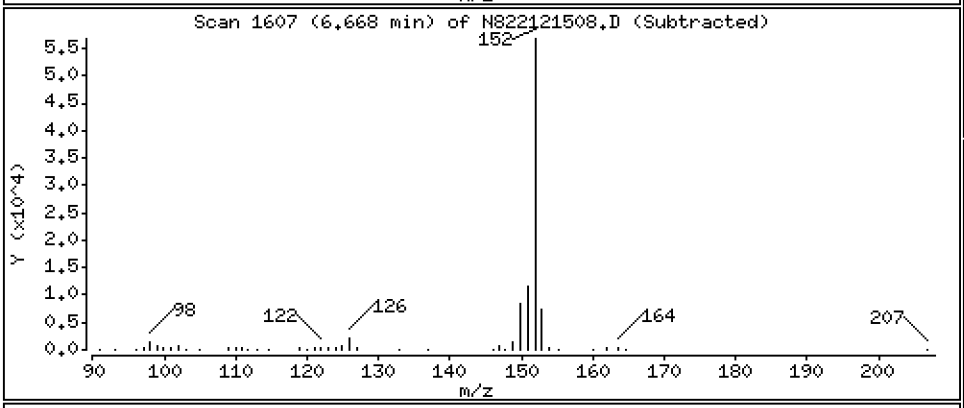
Column diameter: 0.25

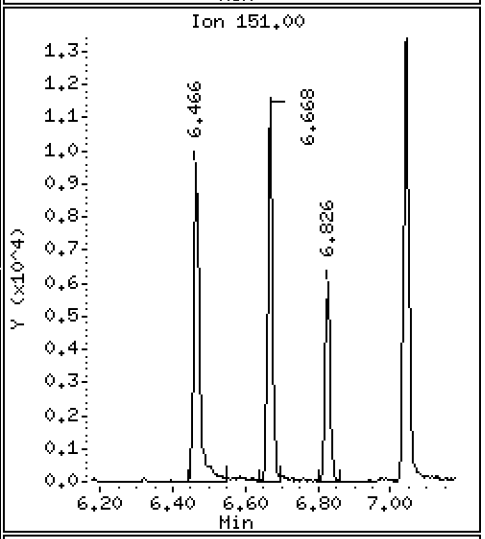
9 Acenaphthylene

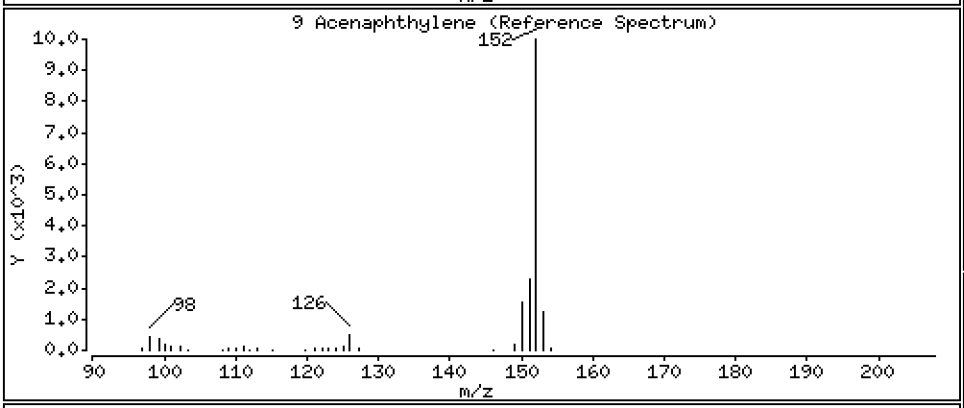
Concentration: 2.486 ug/mL

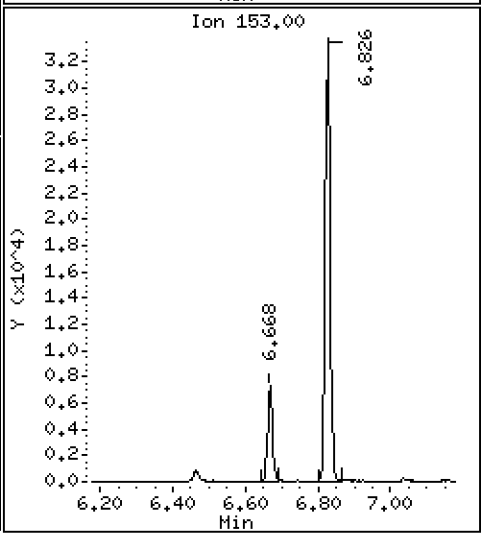


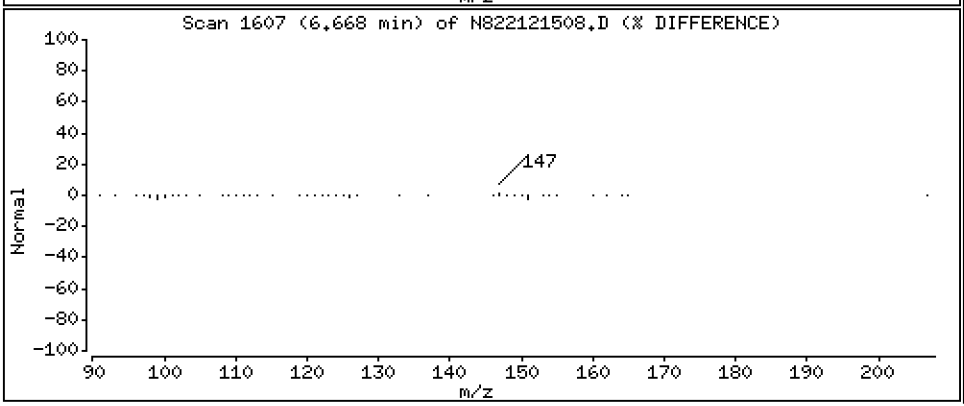












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Date : 15-DEC-2022 18:01

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-SRM1,

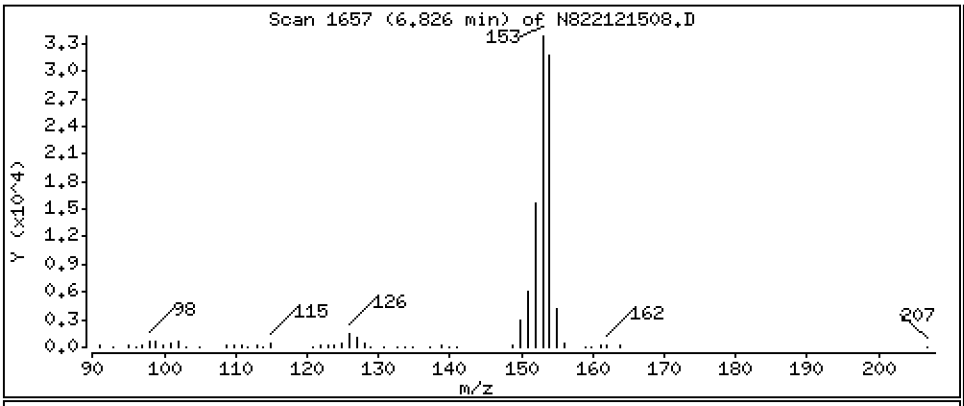
Operator: JZ

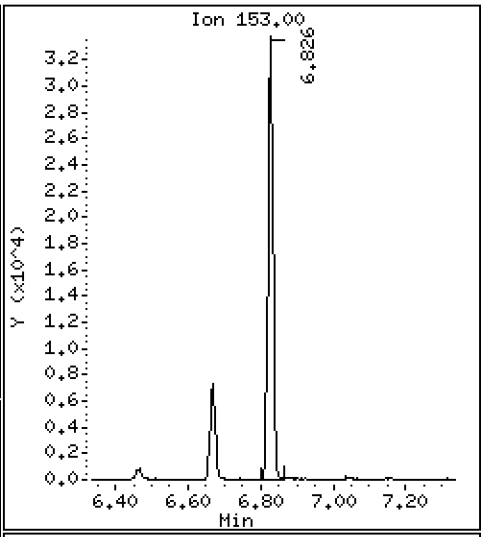
Column phase: Rxi-17sil

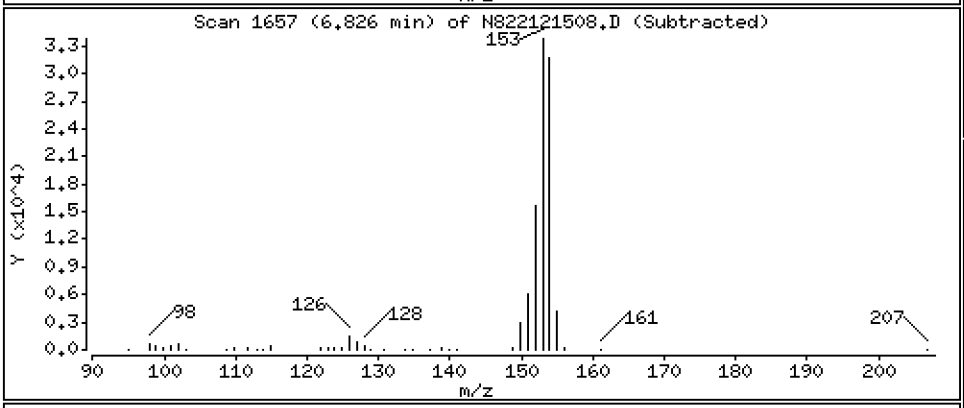
Column diameter: 0.25

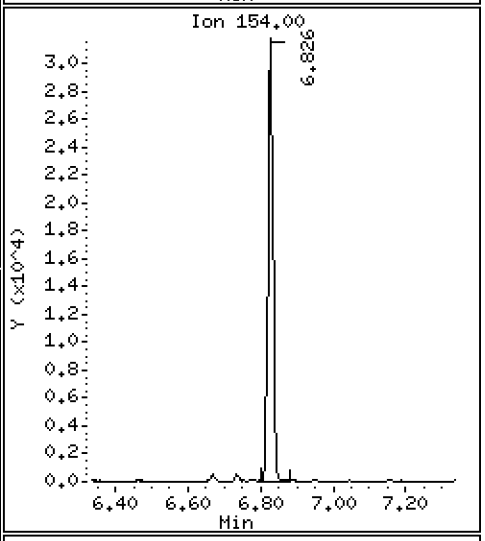
11 Acenaphthene

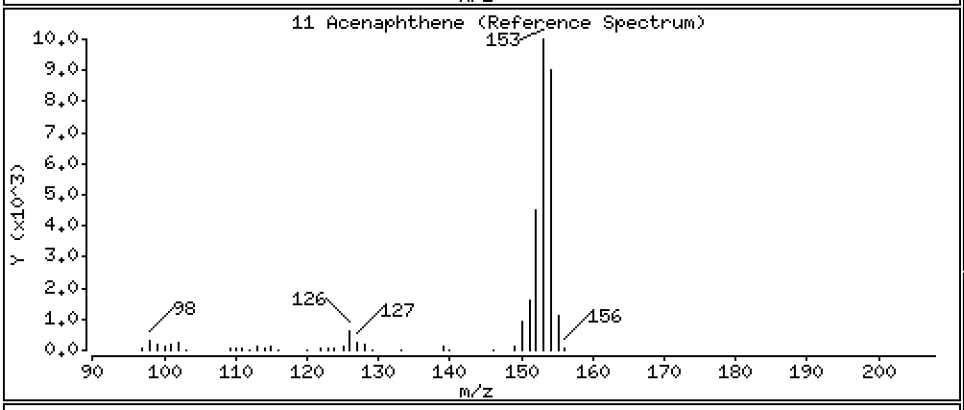
Concentration: 2.190 ug/mL

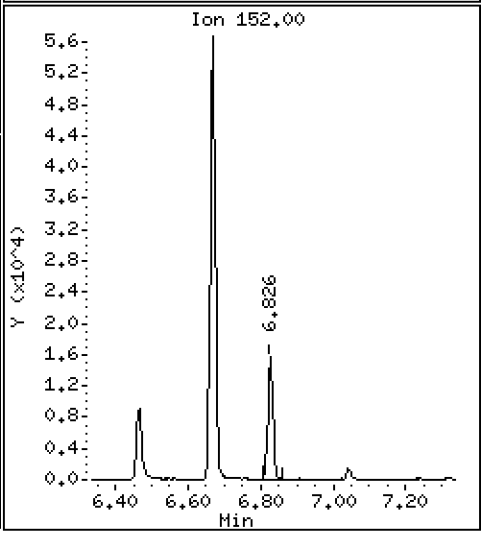


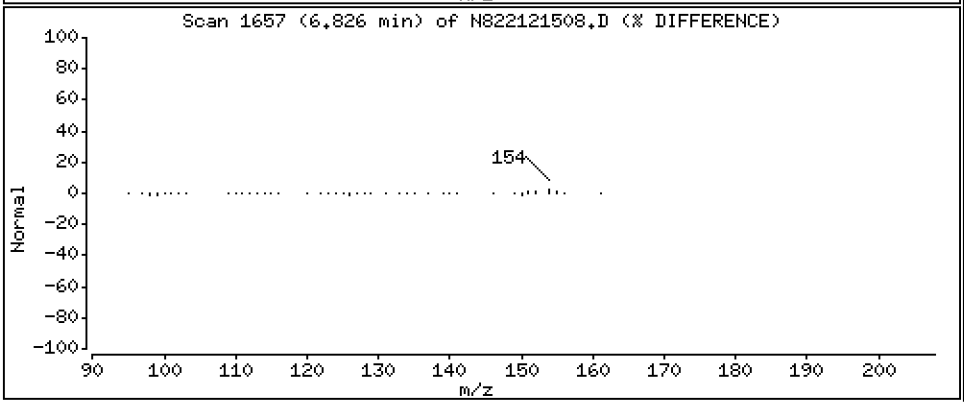












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Date : 15-DEC-2022 18:01

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-SRM1,

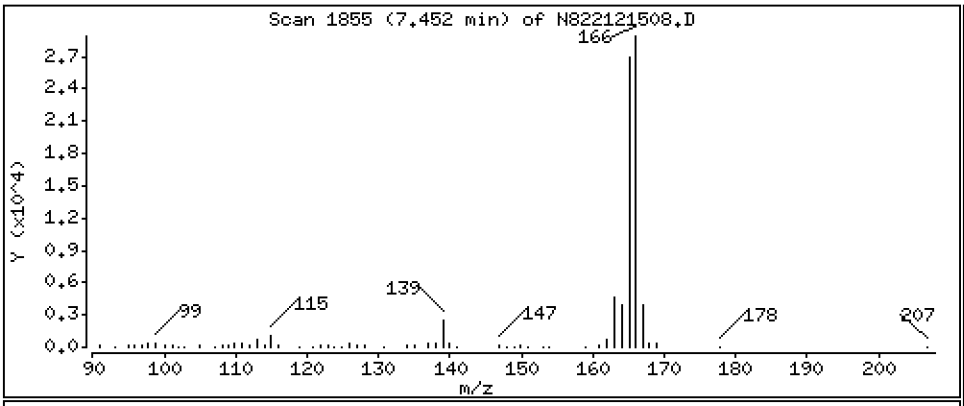
Operator: JZ

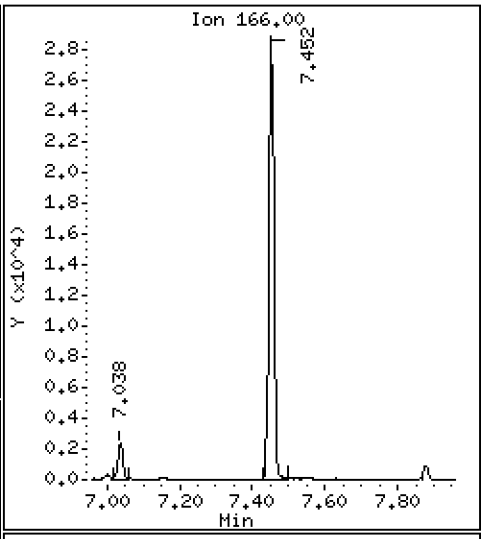
Column phase: Rxi-17sil

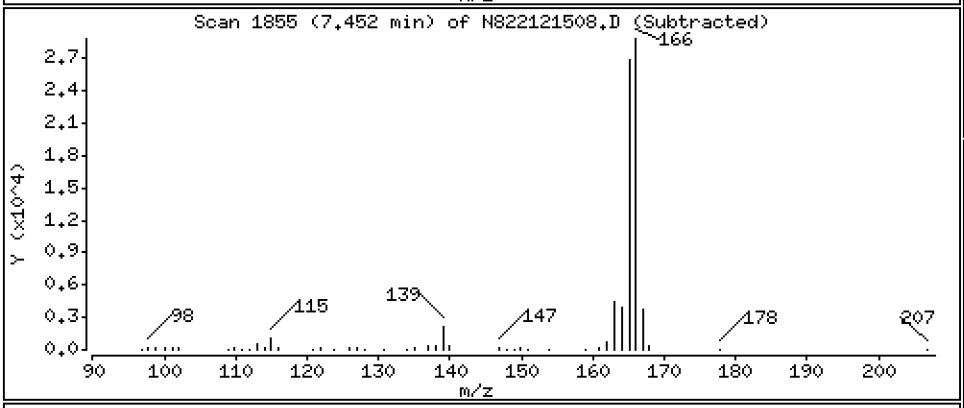
Column diameter: 0.25

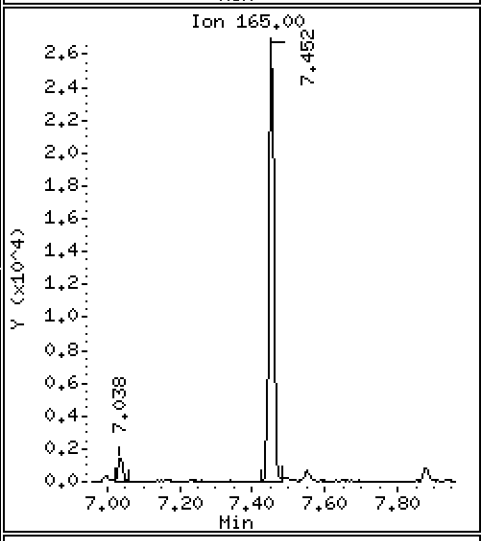
14 Fluorene

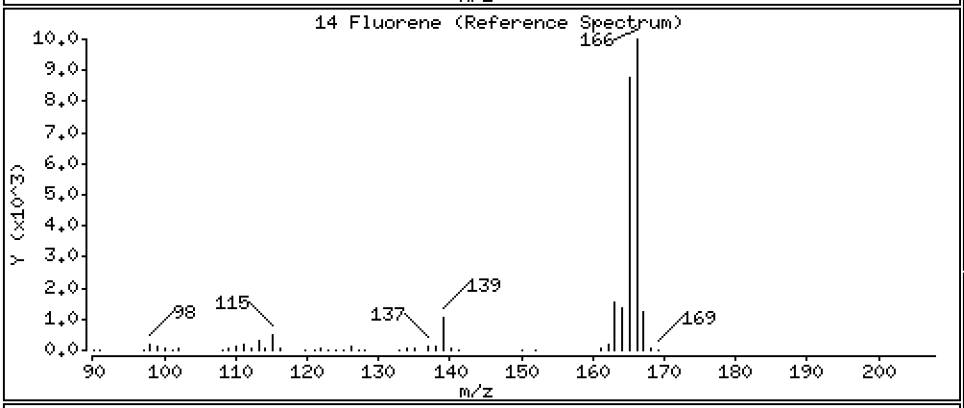
Concentration: 1.692 ug/mL

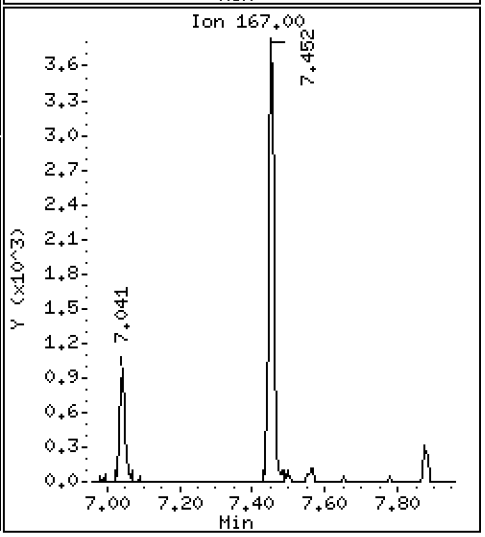


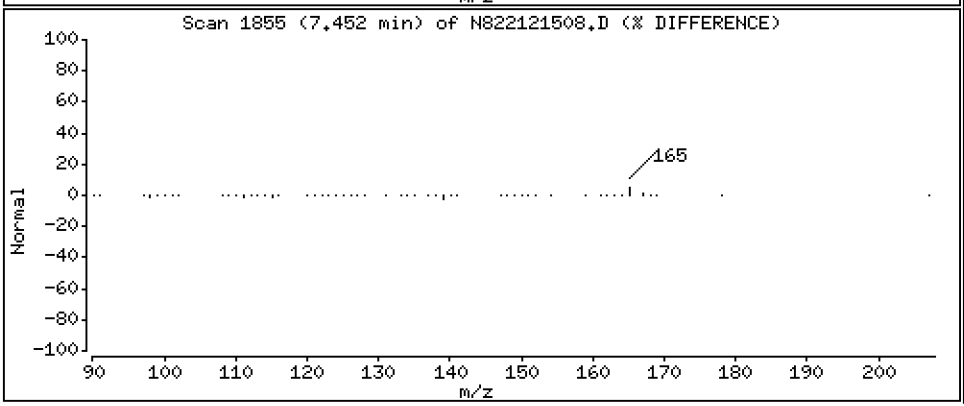












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Date : 15-DEC-2022 18:01

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-SRM1,

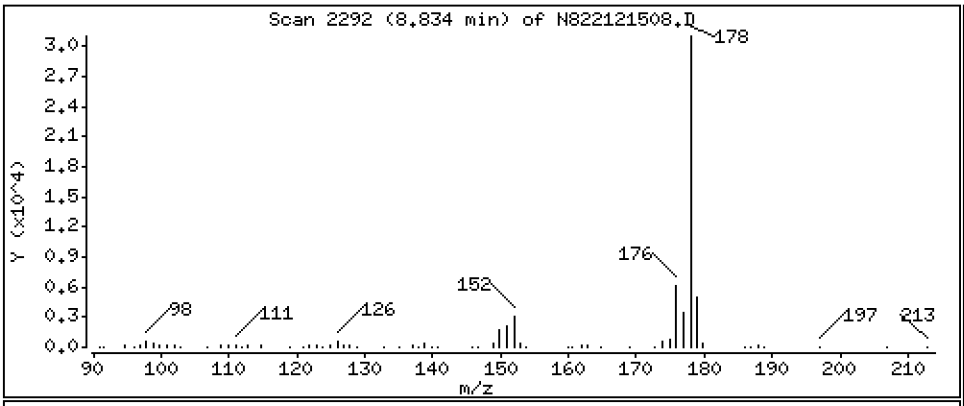
Operator: JZ

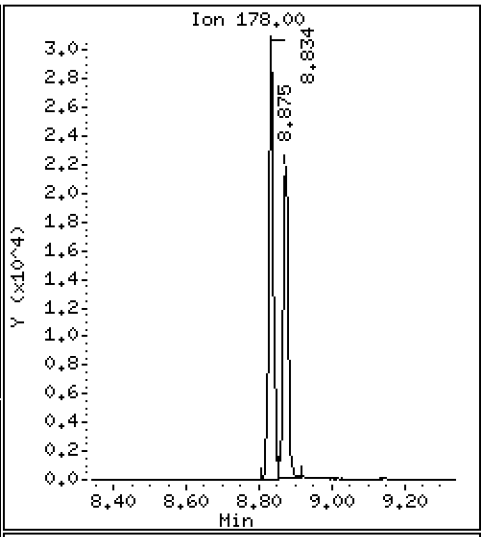
Column phase: Rxi-17sil

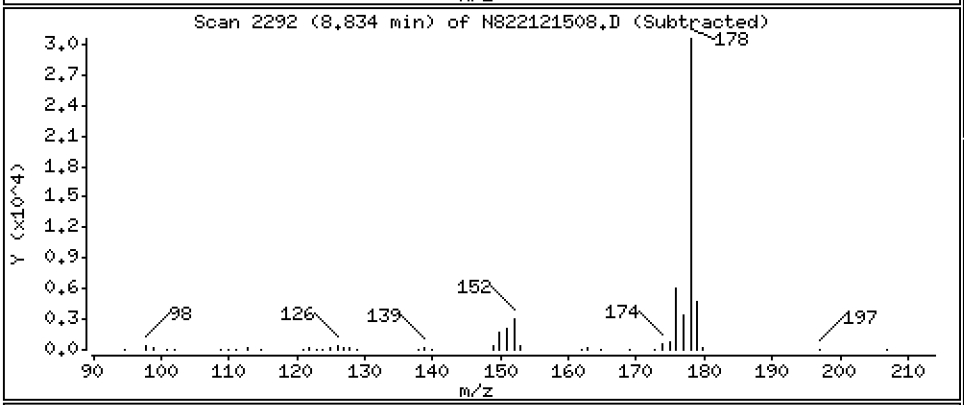
Column diameter: 0.25

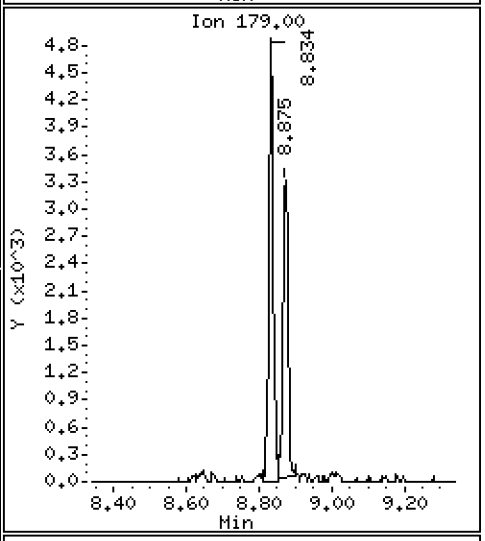
16 Phenanthrene

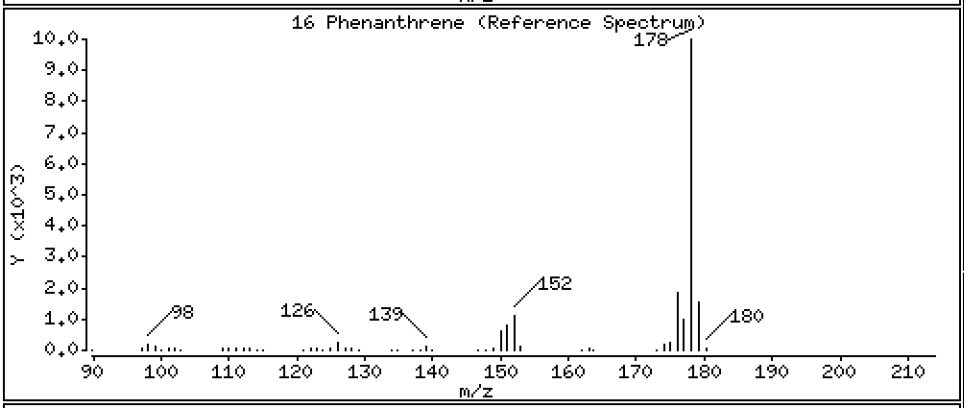
Concentration: 1.110 ug/mL

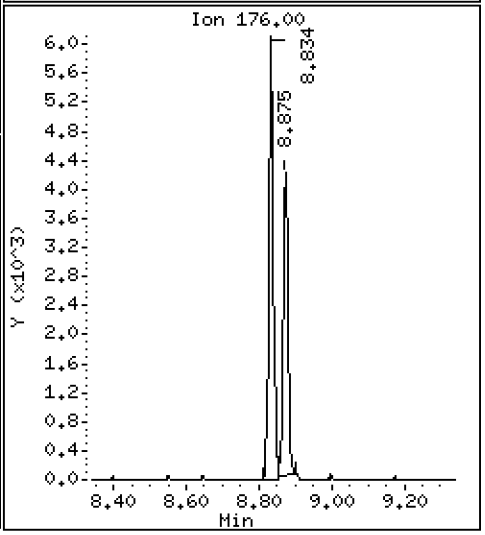


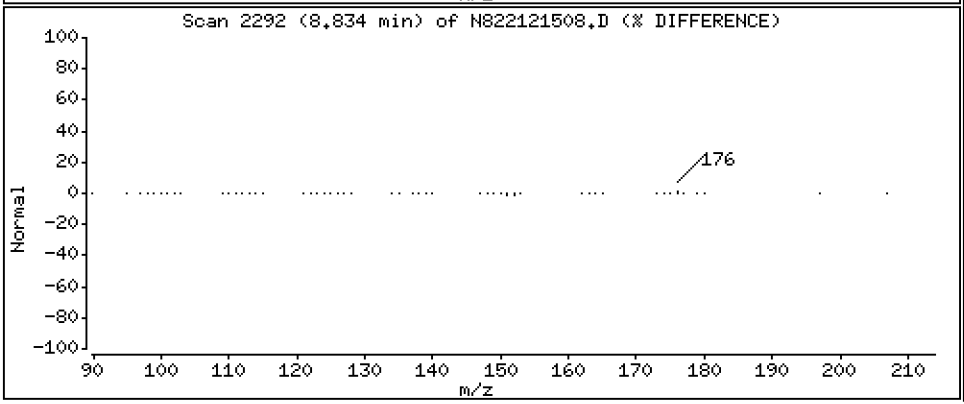












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121508.D

Date : 15-DEC-2022 18:01

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-SRM1,

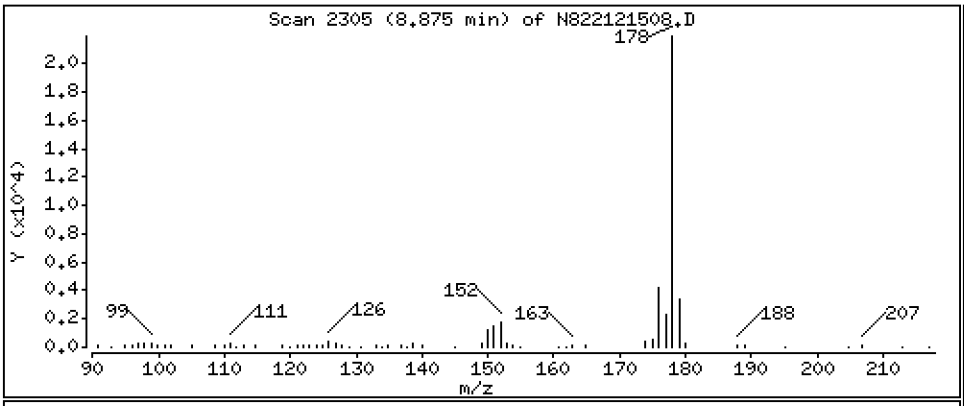
Operator: JZ

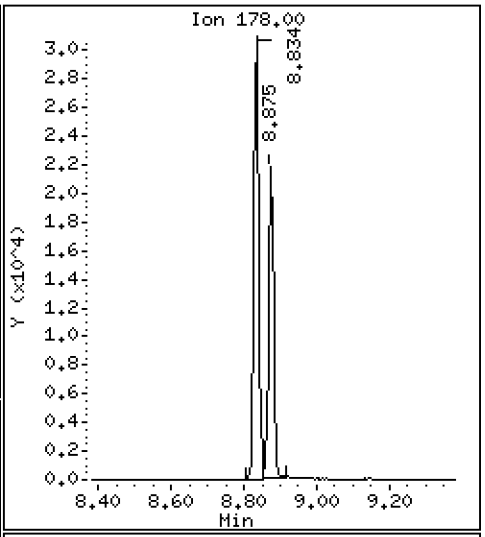
Column phase: Rxi-17sil

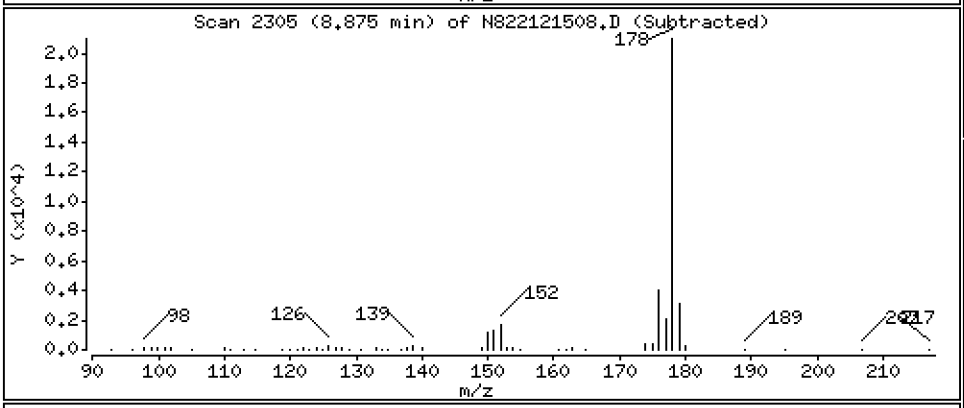
Column diameter: 0.25

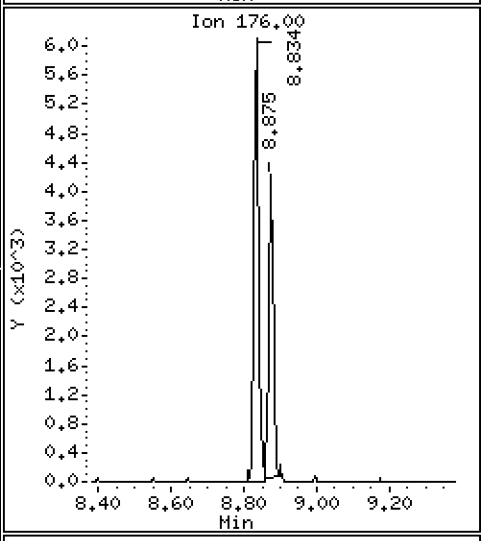
17 Anthracene

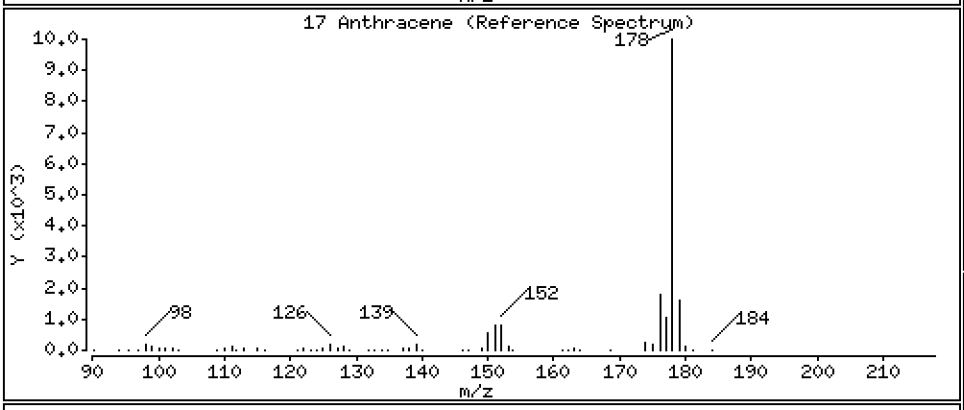
Concentration: 0.8522 ug/mL

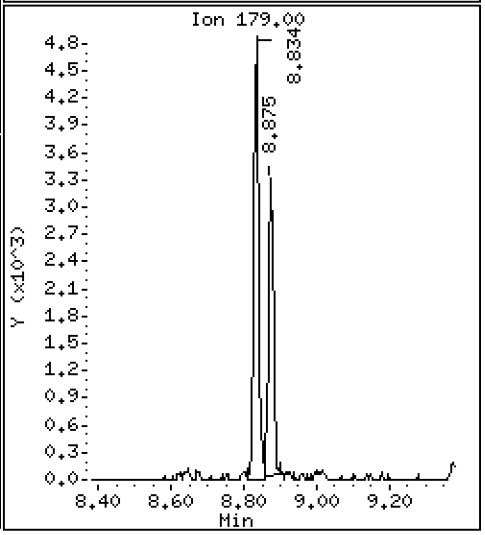


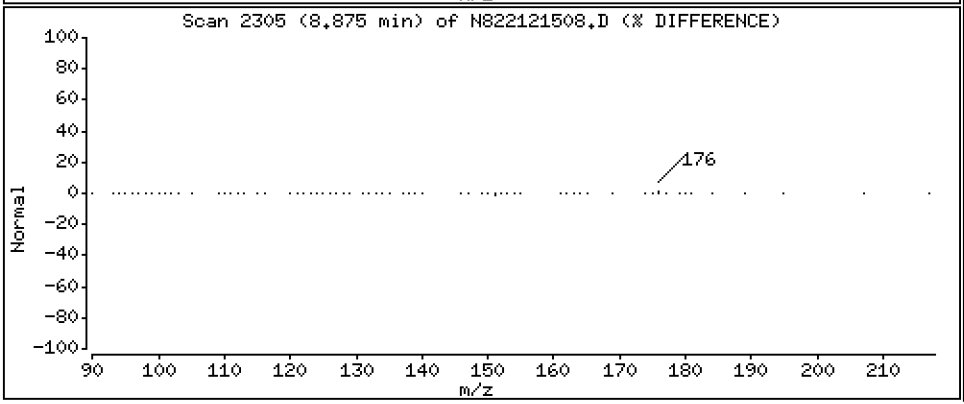












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121508.D

Date : 15-DEC-2022 18:01

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-SRM1,

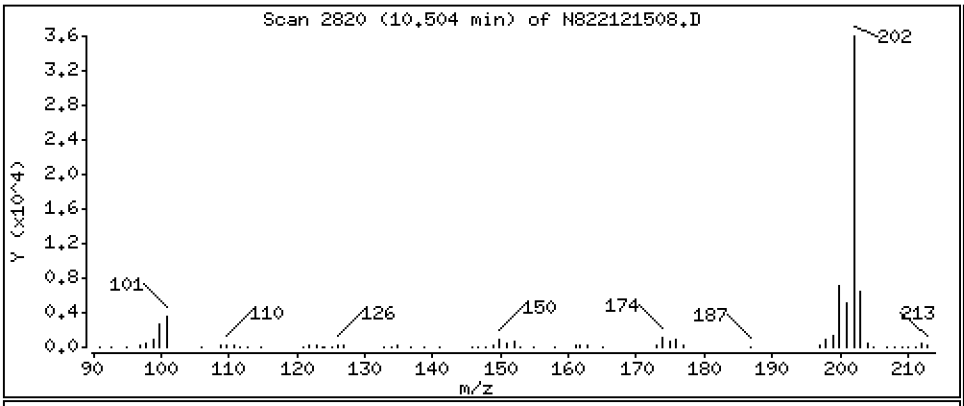
Operator: JZ

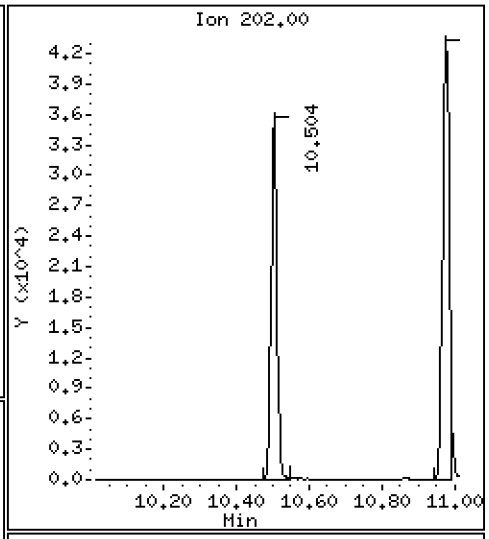
Column phase: Rxi-17sil

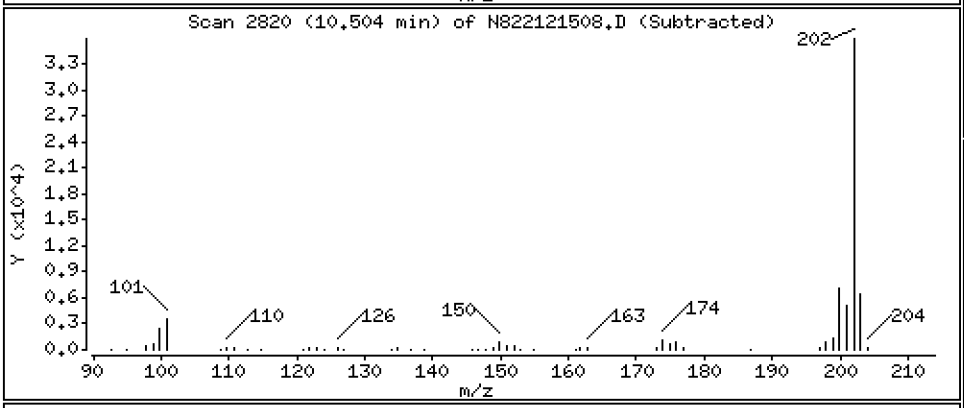
Column diameter: 0.25

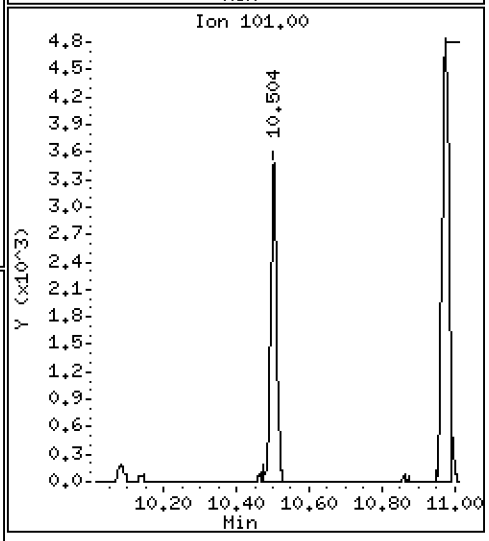
22 Fluoranthene

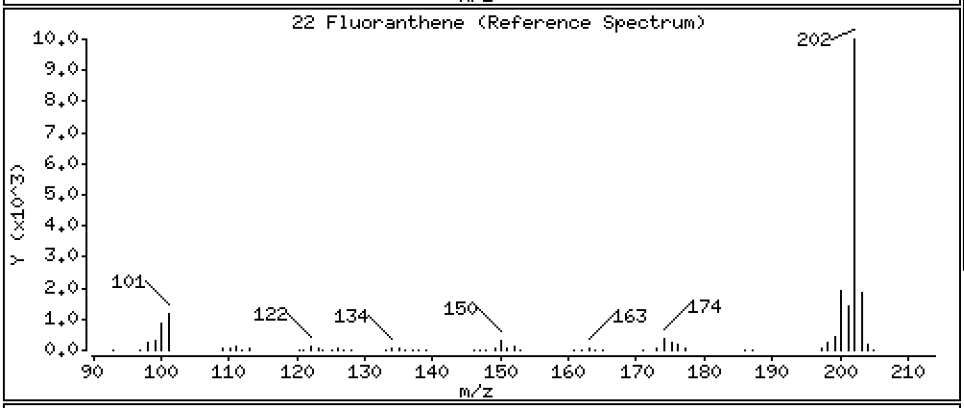
Concentration: 1.465 ug/mL

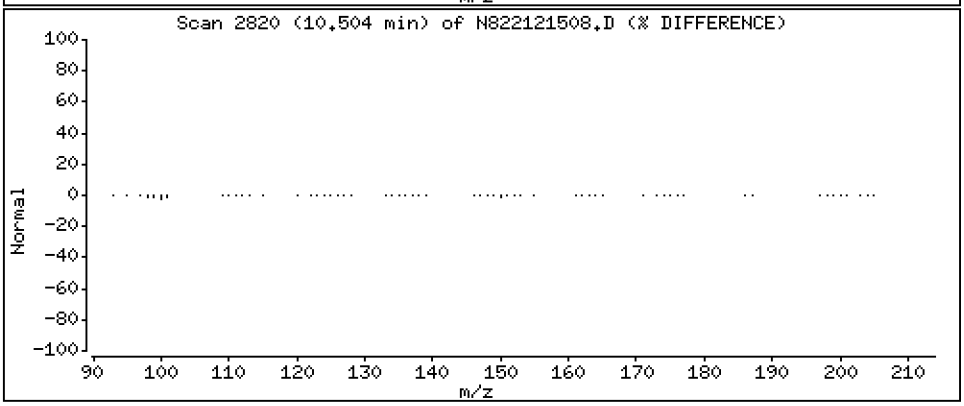












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121508.D

Date : 15-DEC-2022 18:01

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-SRM1,

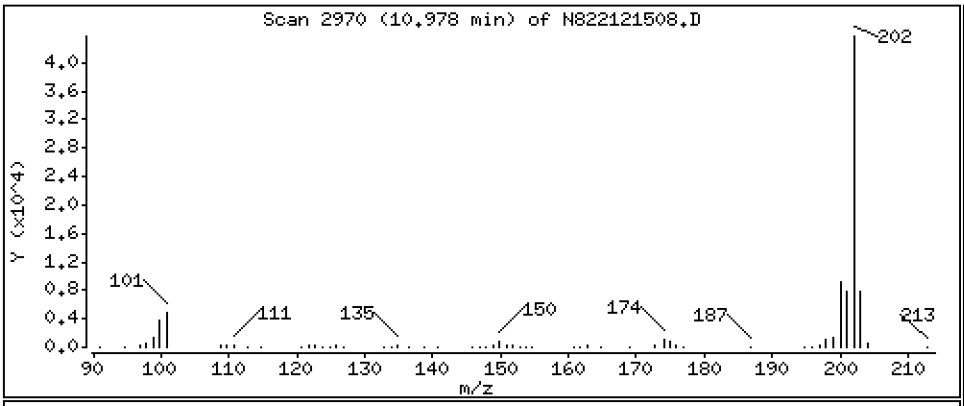
Operator: JZ

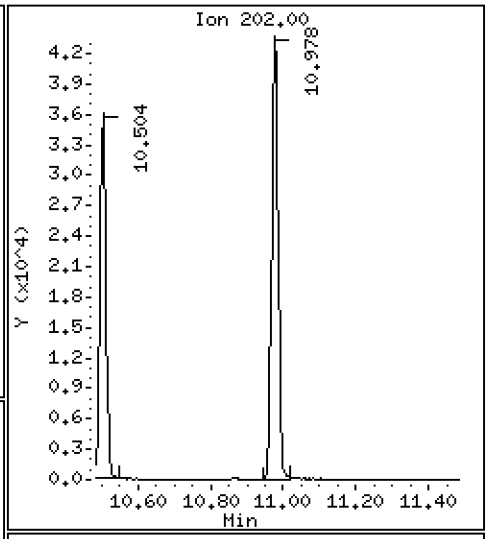
Column phase: Rxi-17sil

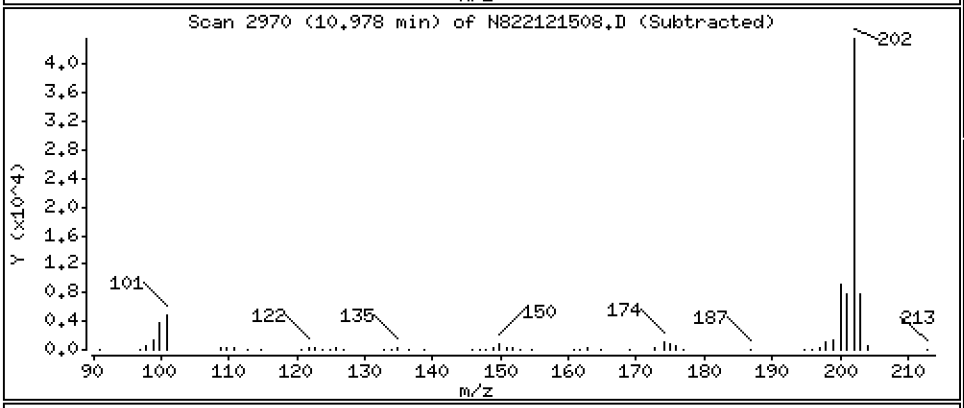
Column diameter: 0.25

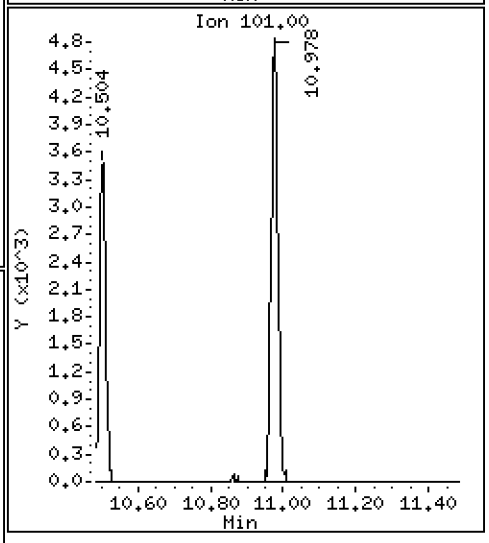
23 Pyrene

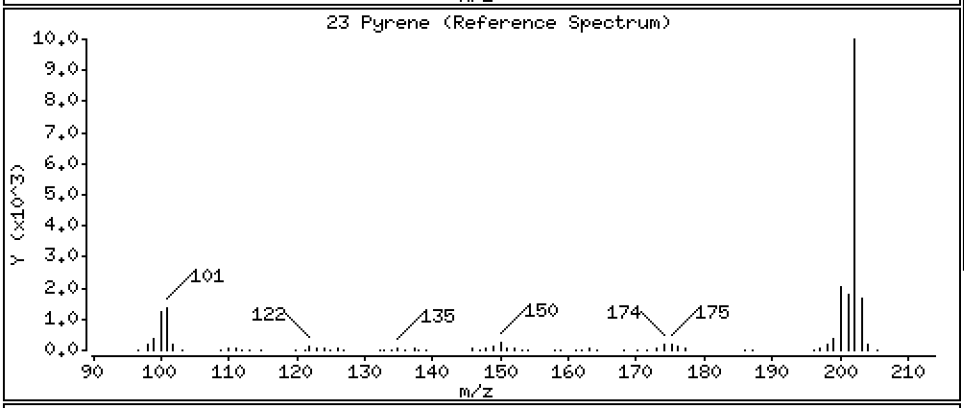
Concentration: 1.730 ug/mL

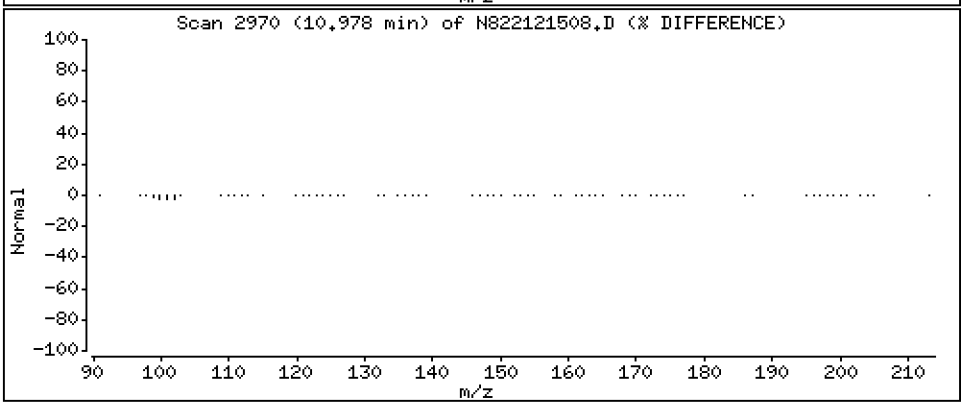












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121508.D

Date : 15-DEC-2022 18:01

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-SRM1,

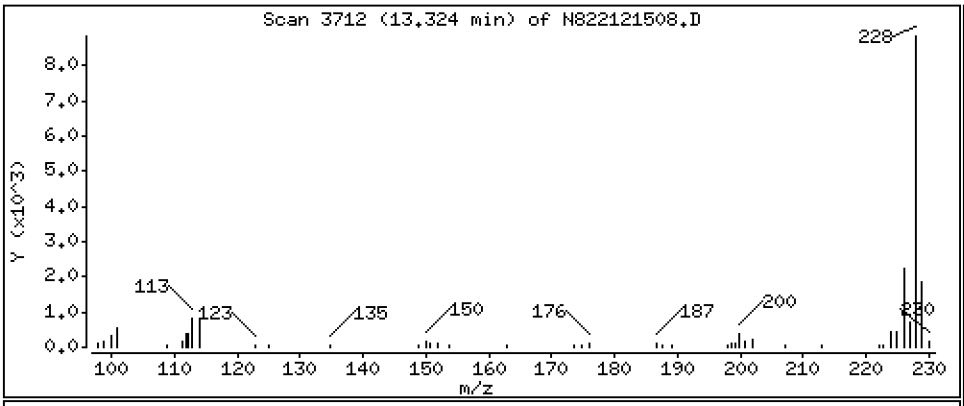
Operator: JZ

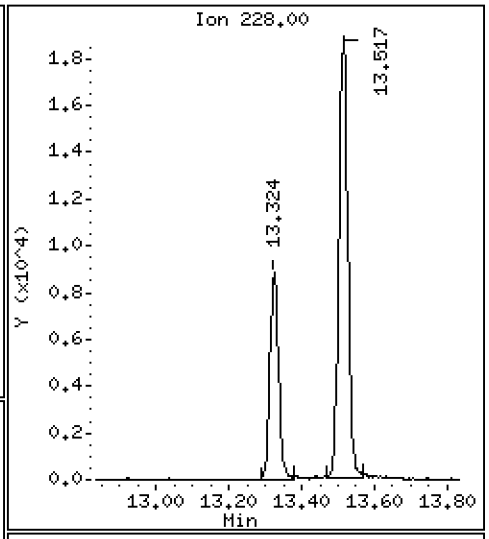
Column phase: Rxi-17sil

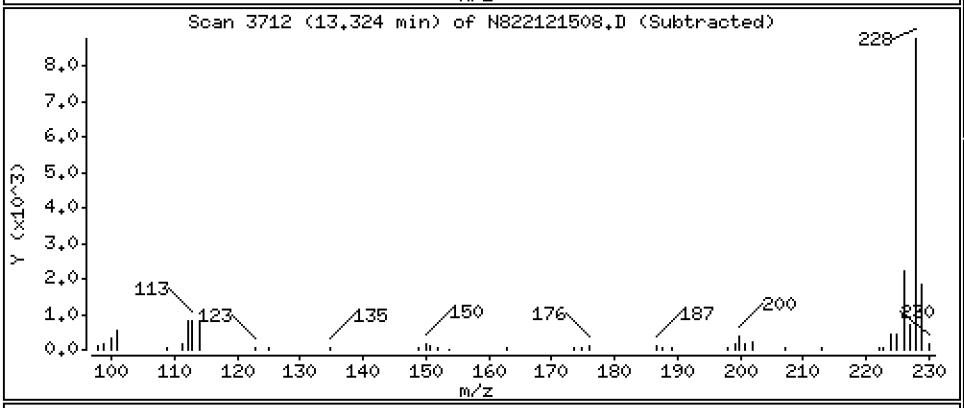
Column diameter: 0.25

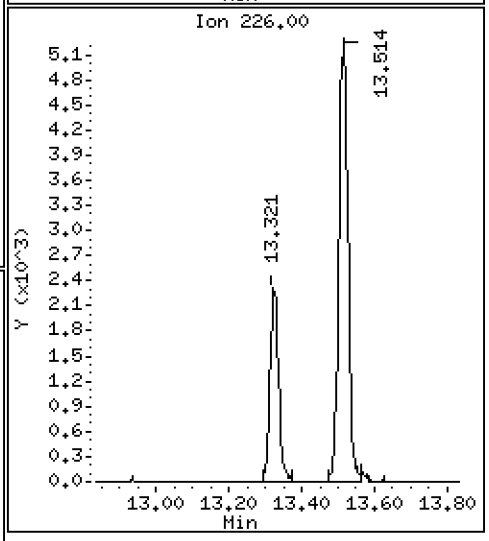
24 Benzo(a)anthracene

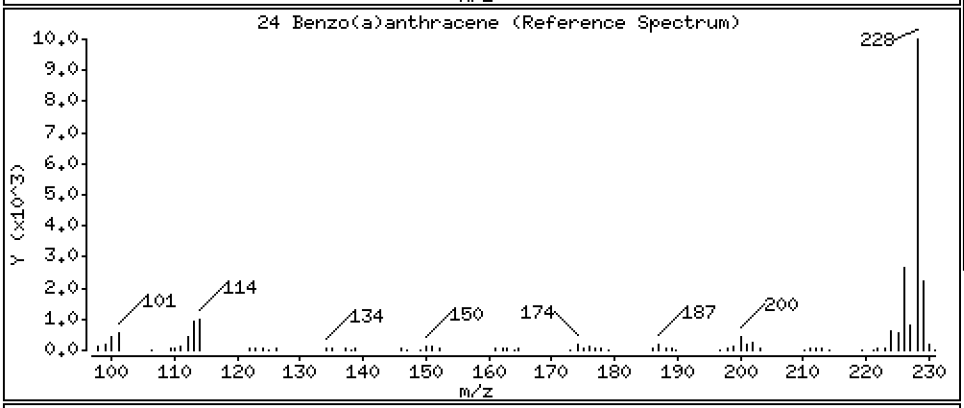
Concentration: 0.4999 ug/mL

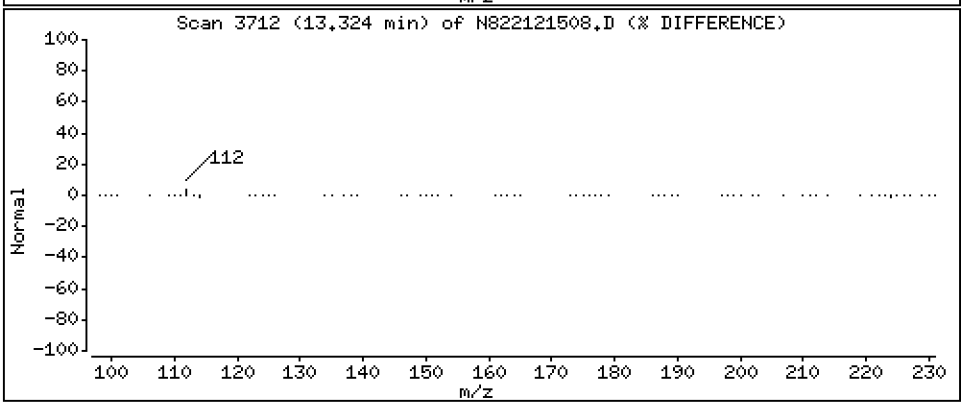












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Date : 15-DEC-2022 18:01

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-SRM1,

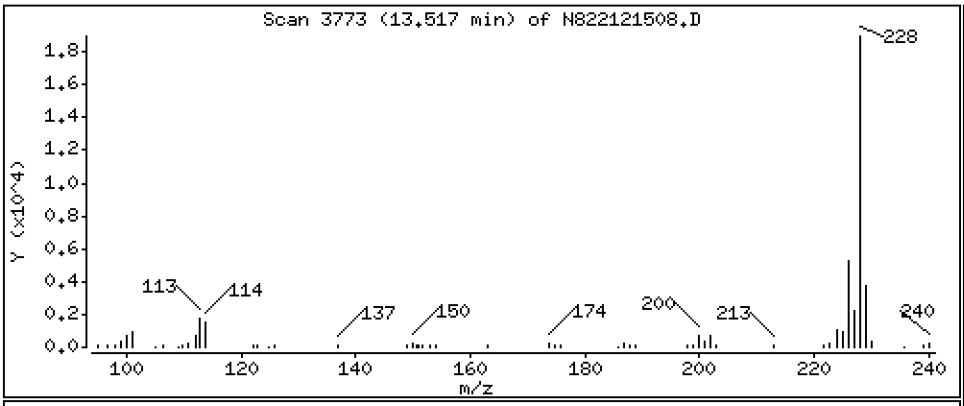
Operator: JZ

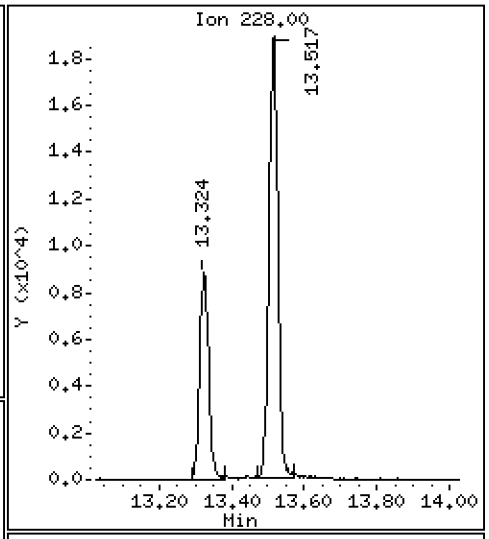
Column phase: Rxi-17sil

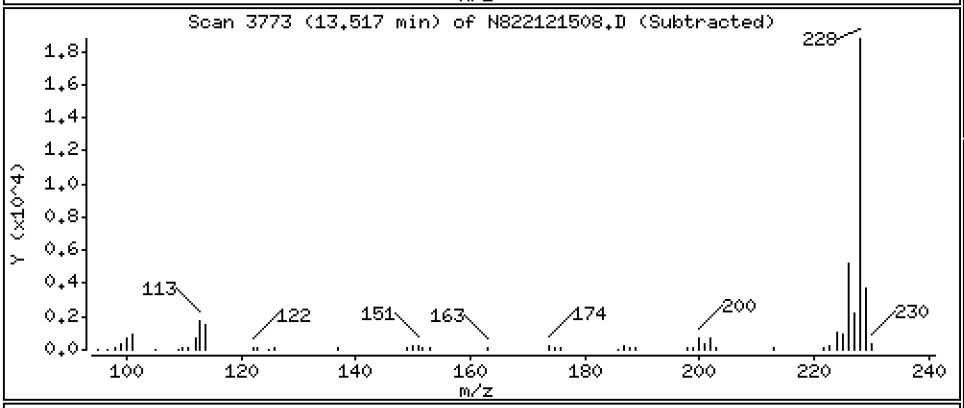
Column diameter: 0.25

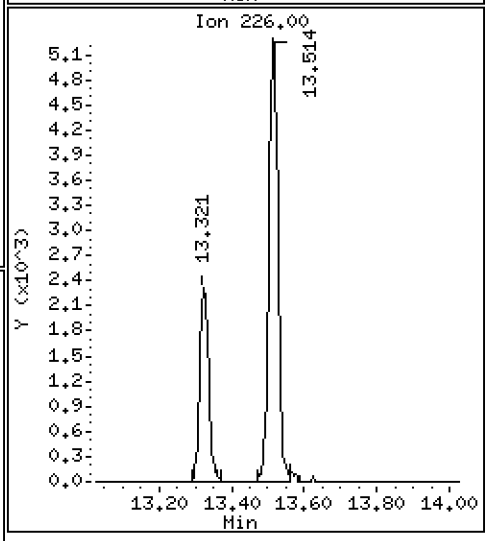
27 Chrysene

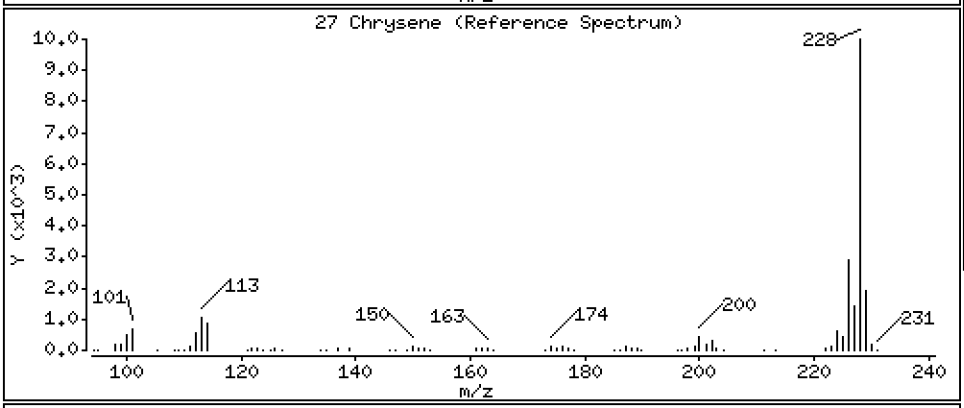
Concentration: 1.098 ug/mL

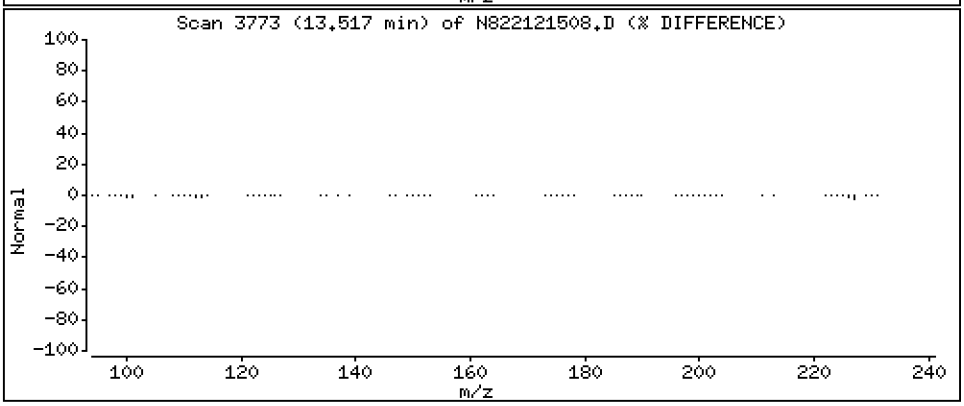












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121508.D

Date : 15-DEC-2022 18:01

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-SRM1,

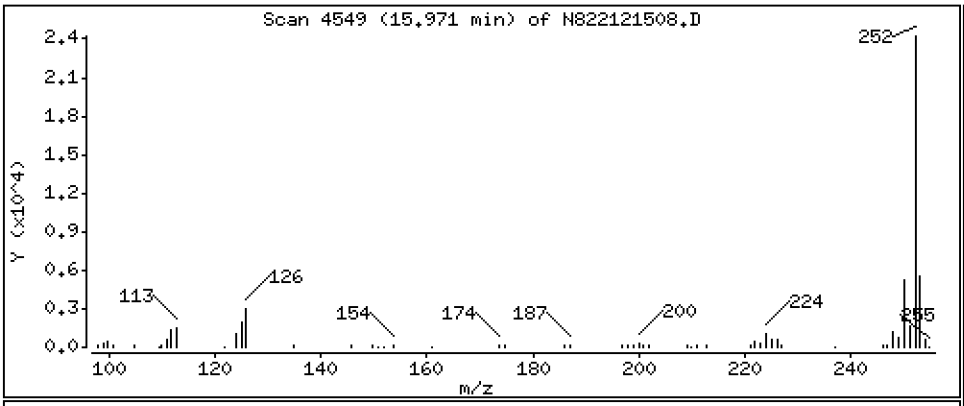
Operator: JZ

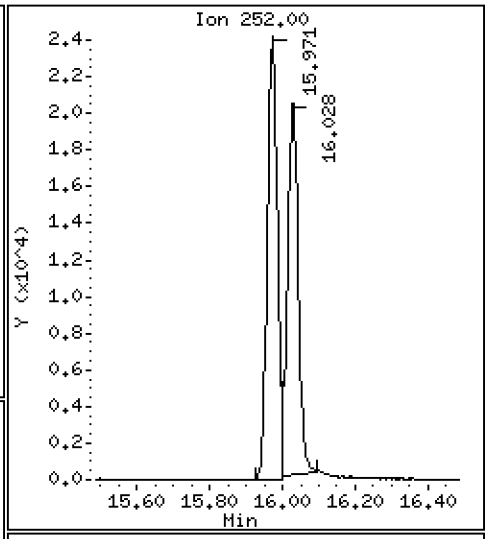
Column phase: Rxi-17sil

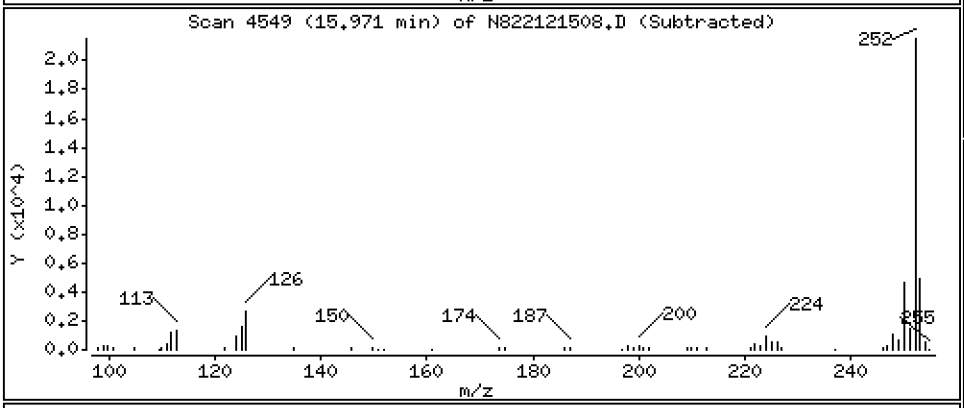
Column diameter: 0.25

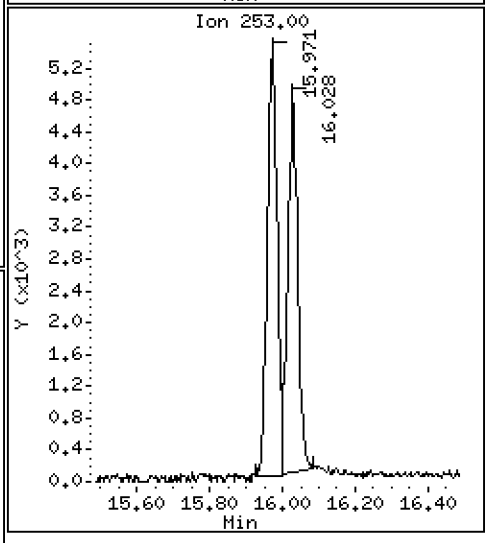
28 Benzo(b)fluoranthene

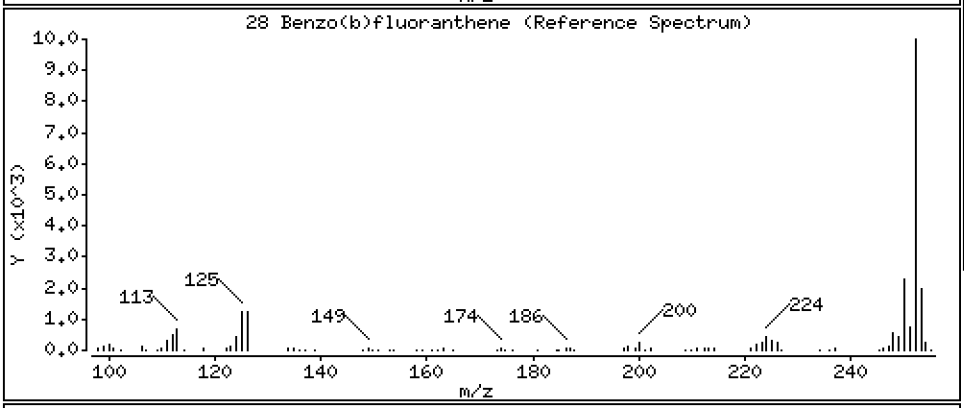
Concentration: 1.562 ug/mL

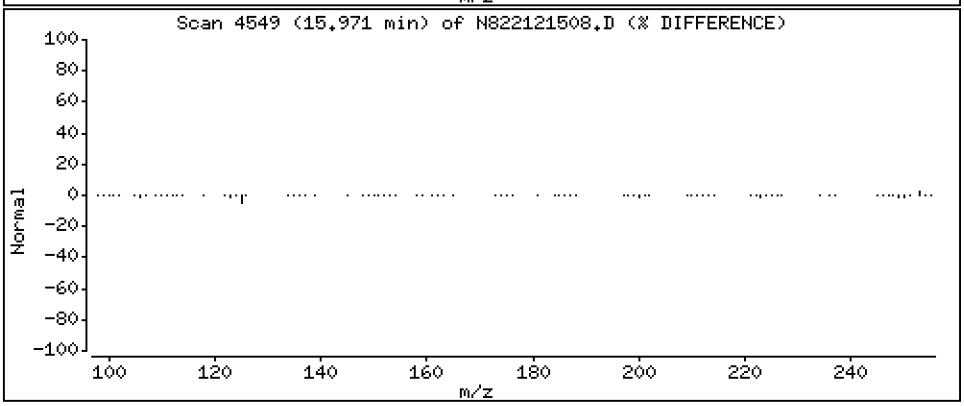












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121508.D

Date : 15-DEC-2022 18:01

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-SRM1,

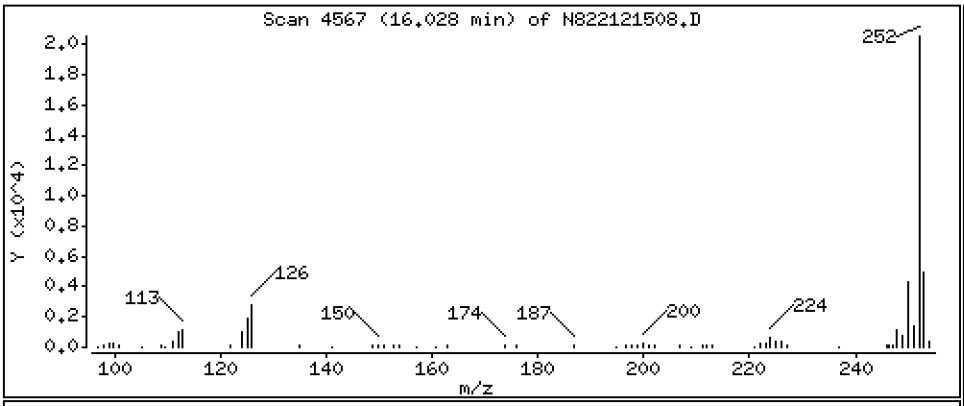
Operator: JZ

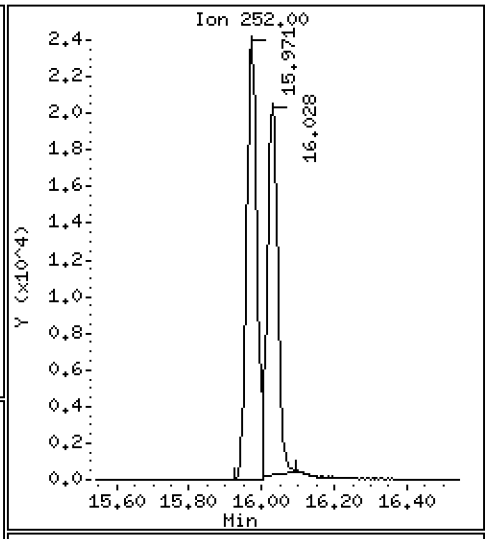
Column phase: Rxi-17sil

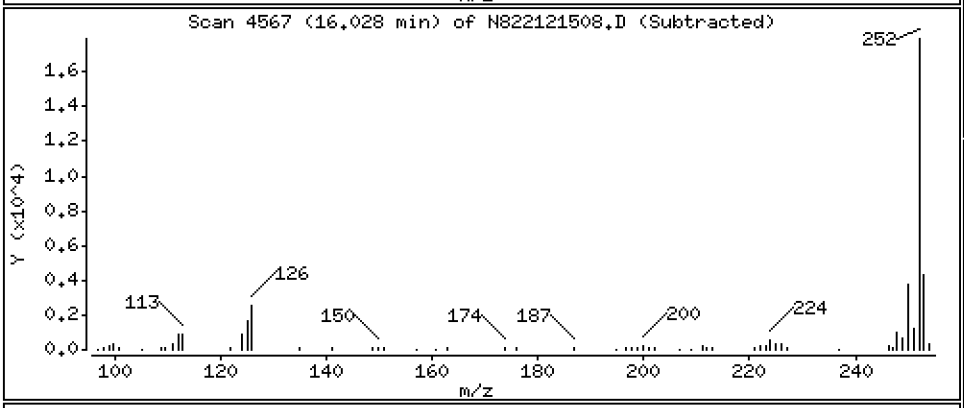
Column diameter: 0.25

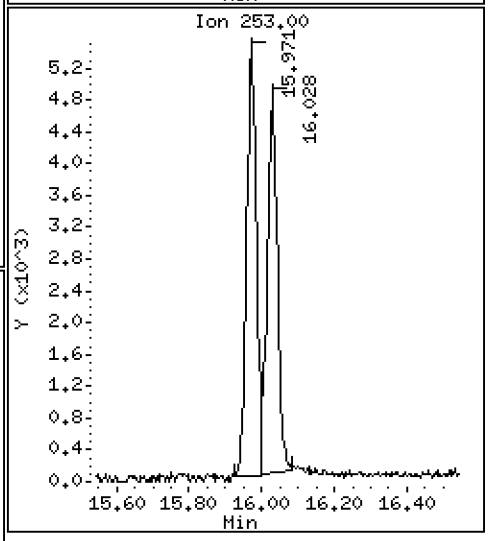
29 Benzo(k)fluoranthene

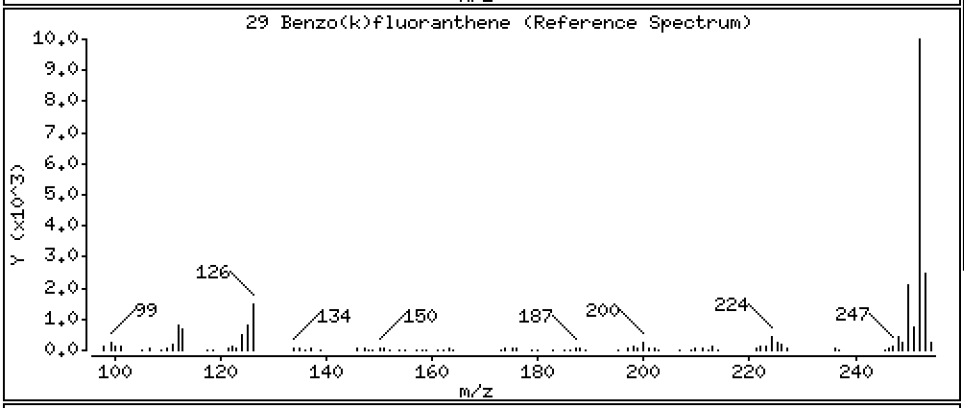
Concentration: 1.450 ug/mL

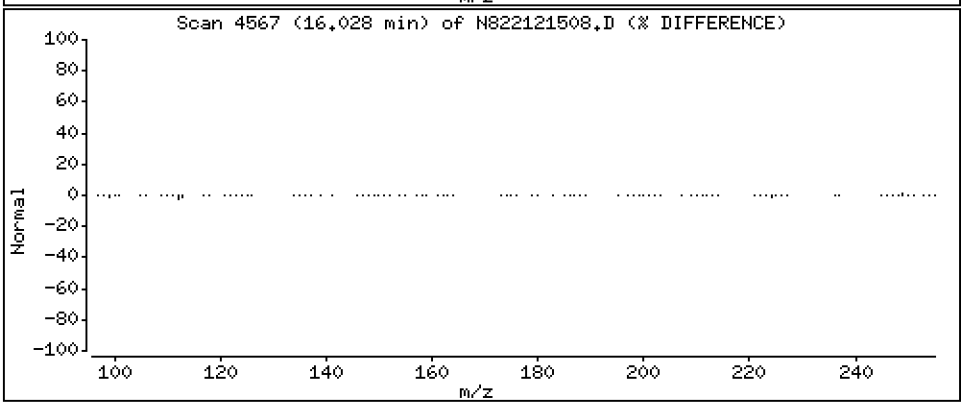












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Date : 15-DEC-2022 18:01

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-SRM1,

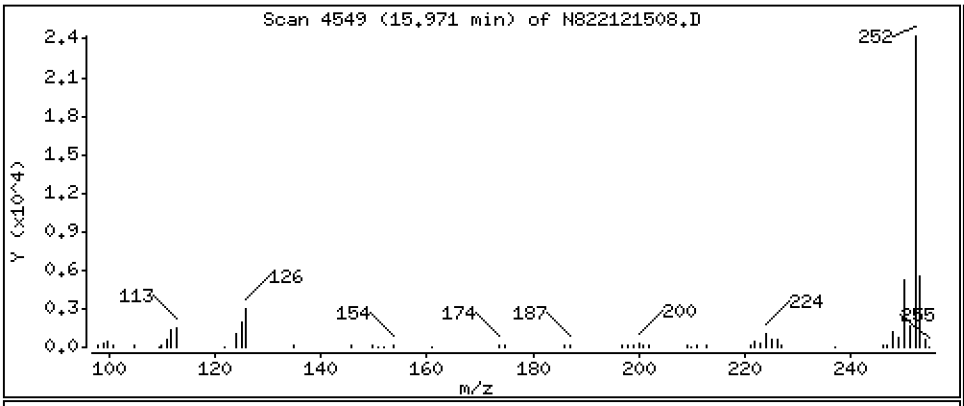
Operator: JZ

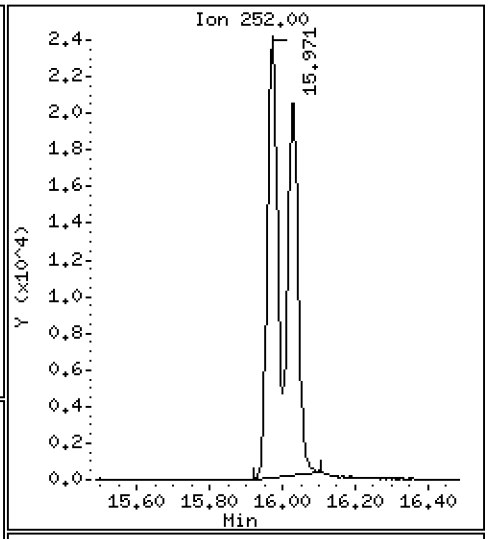
Column phase: Rxi-17sil

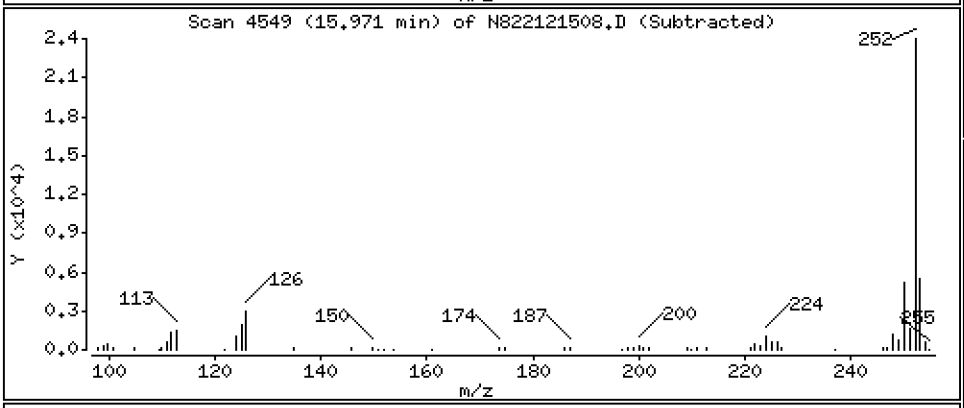
Column diameter: 0.25

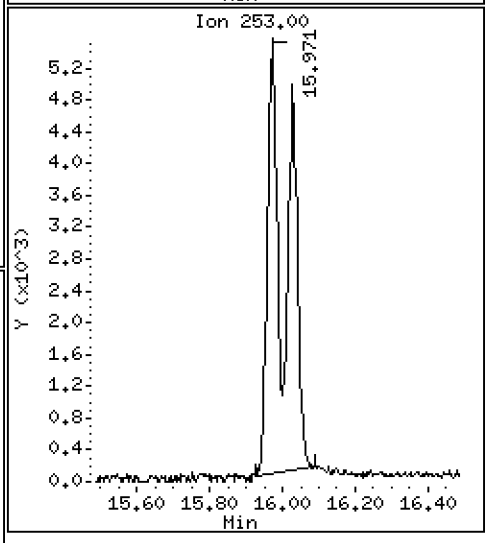
31 Total Benzofluoranthenes

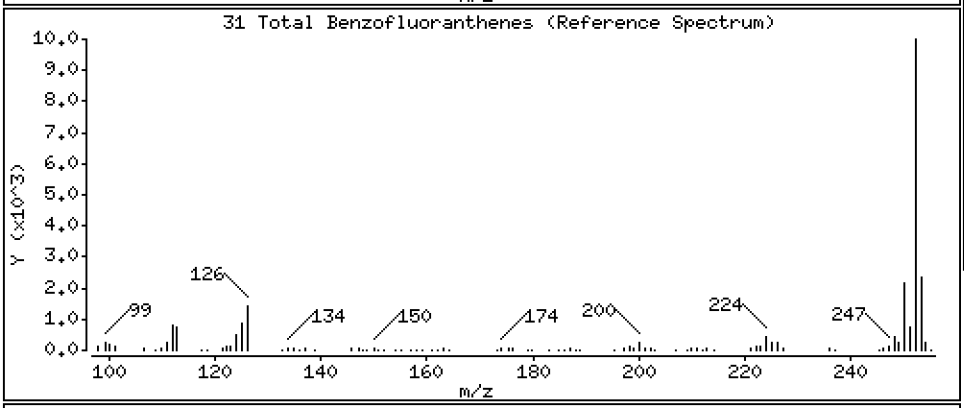
Concentration: 3.117 ug/mL

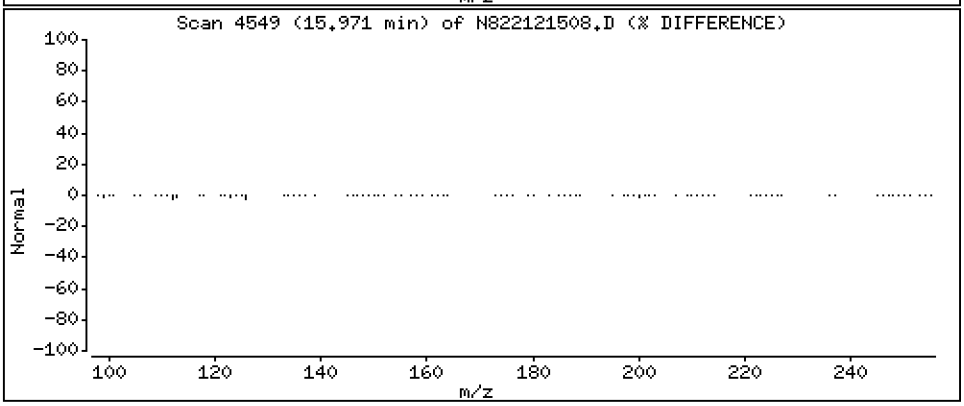












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121508.D

Date : 15-DEC-2022 18:01

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-SRM1,

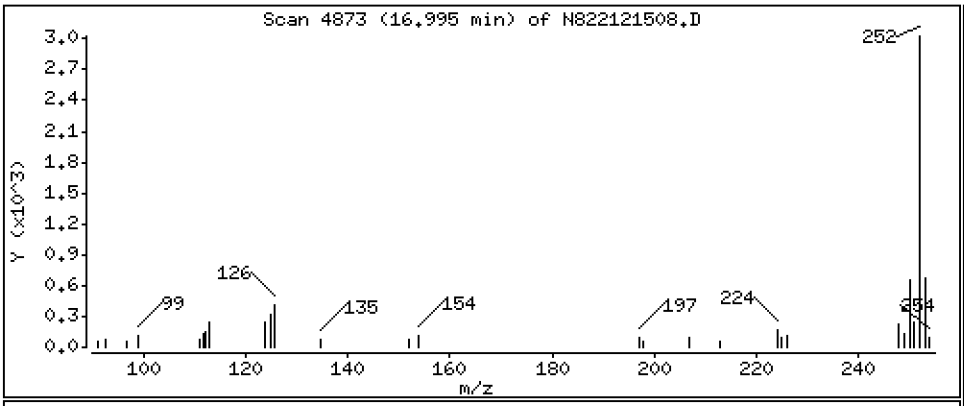
Operator: JZ

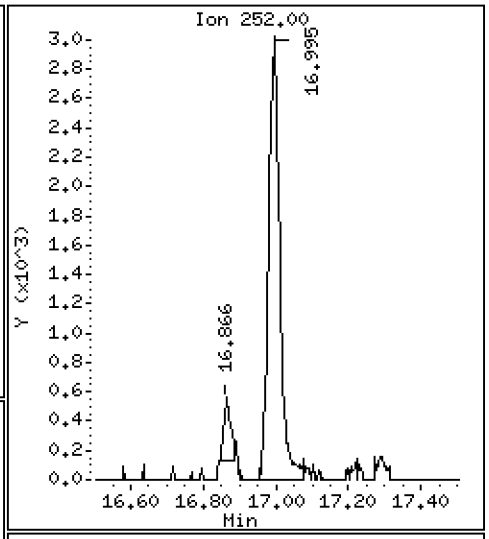
Column phase: Rxi-17sil

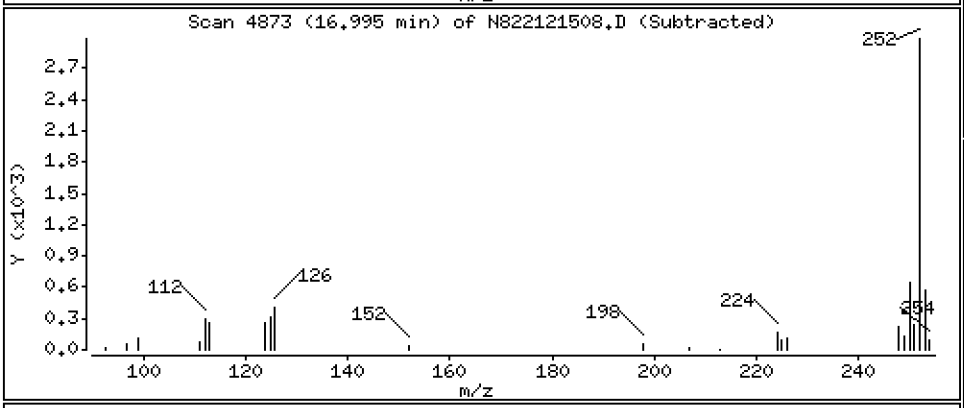
Column diameter: 0.25

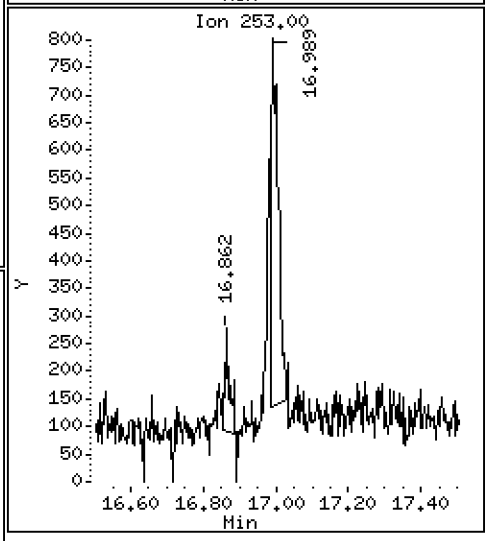
32 Benzo(a)pyrene

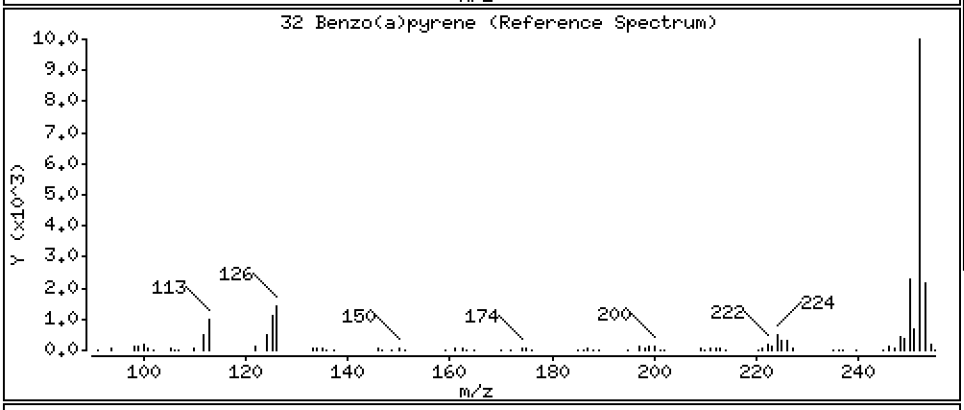
Concentration: 0.2627 ug/mL

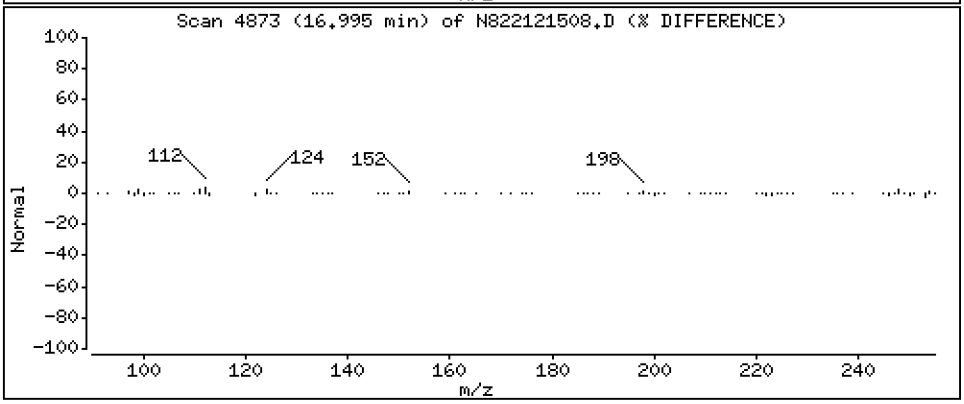












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121508.D

Date : 15-DEC-2022 18:01

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-SRM1,

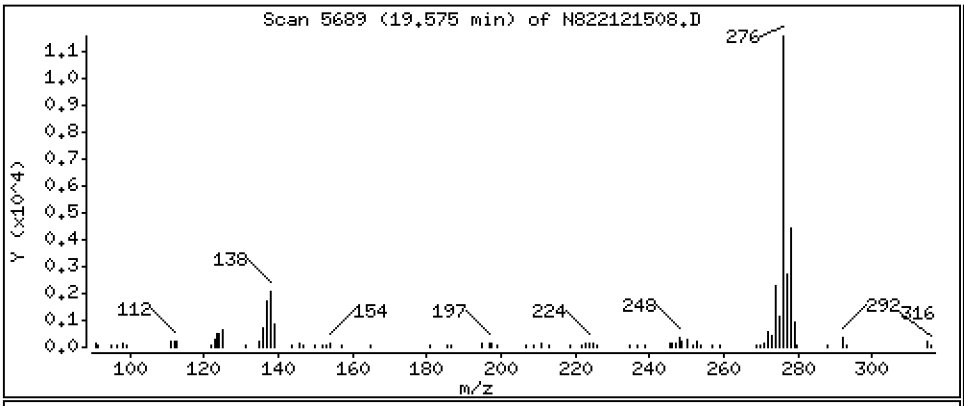
Operator: JZ

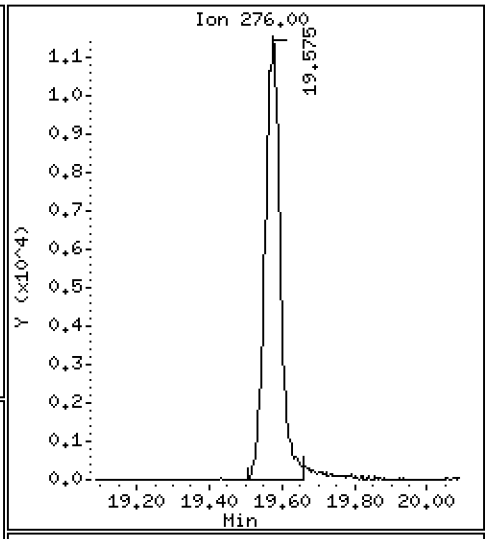
Column phase: Rxi-17sil

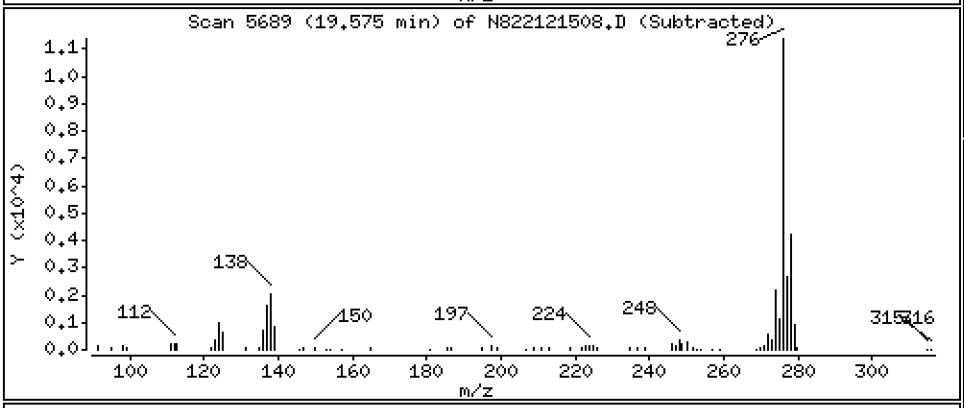
Column diameter: 0.25

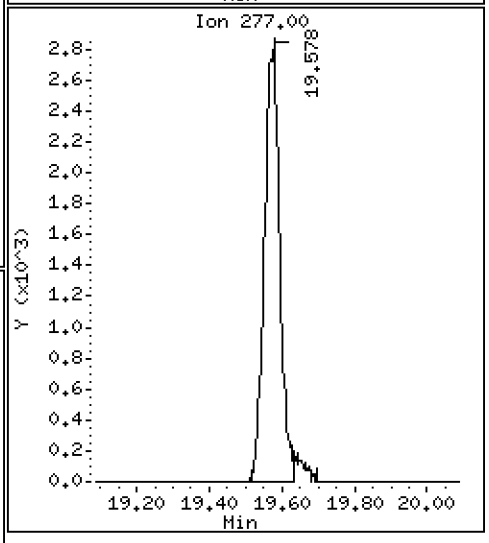
37 Indeno(1,2,3-cd)pyrene

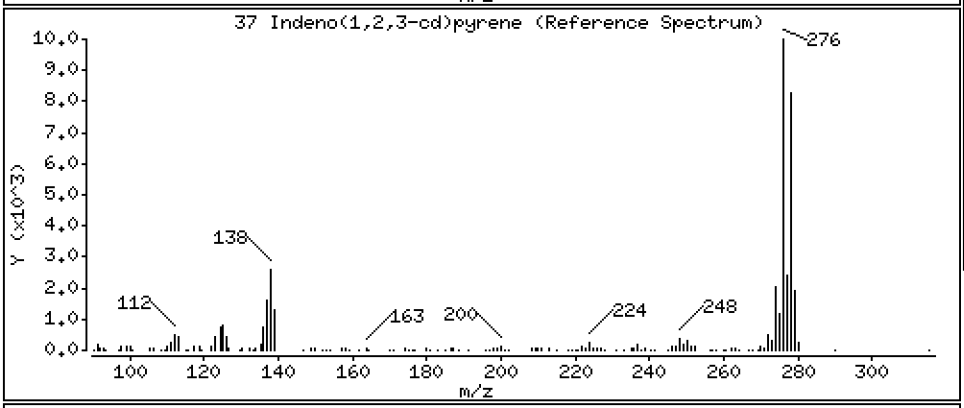
Concentration: 1.380 ug/mL

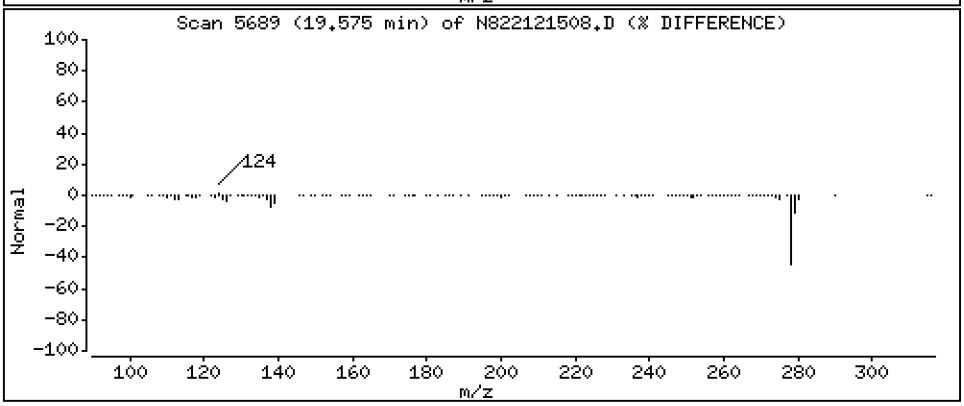












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121508.D

Date : 15-DEC-2022 18:01

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-SRM1,

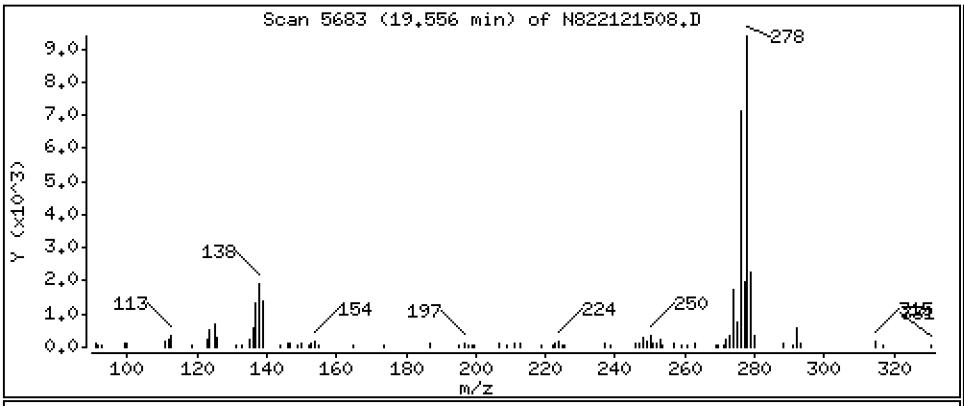
Operator: JZ

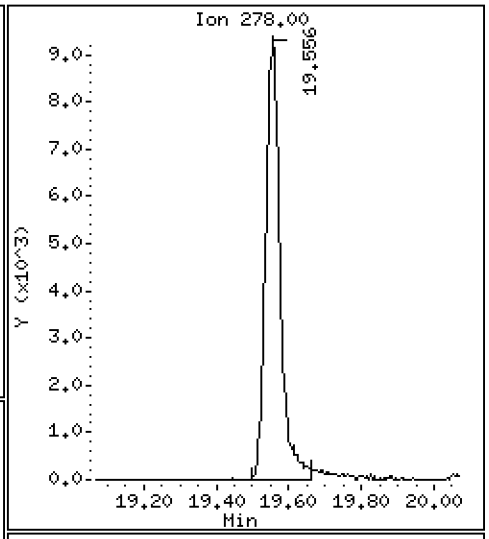
Column phase: Rxi-17sil

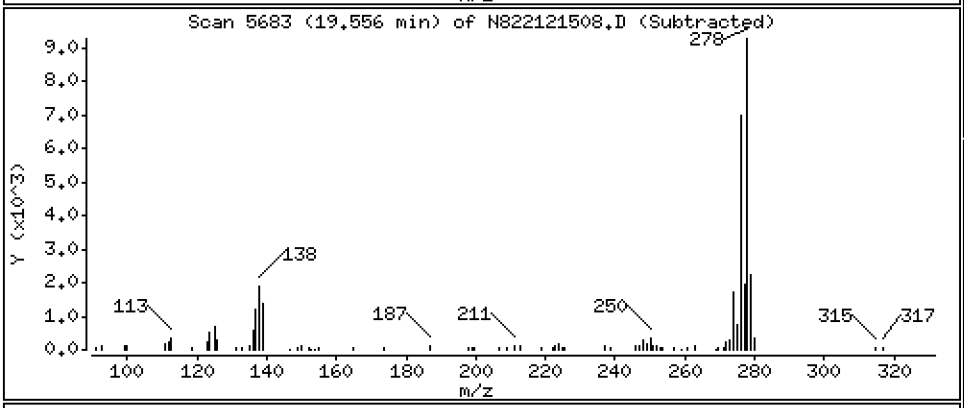
Column diameter: 0.25

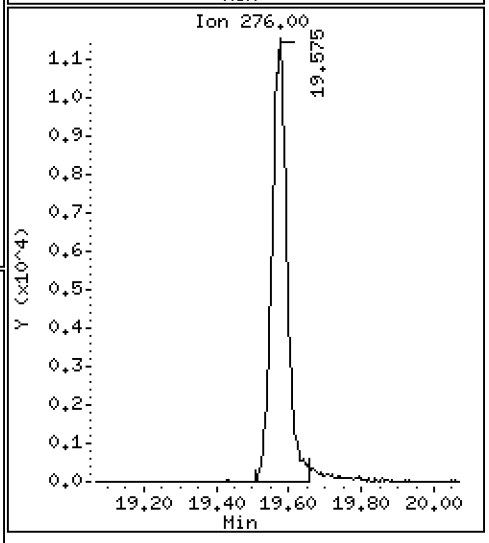
38 Dibenzo(a,h)anthracene

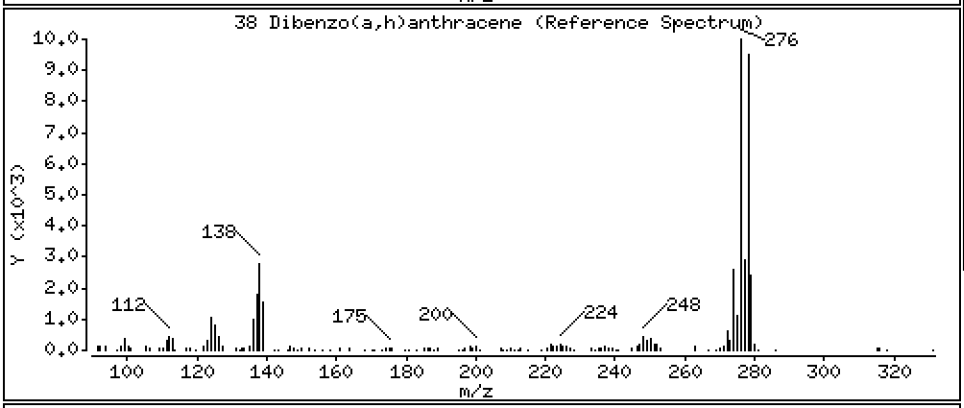
Concentration: 1.236 ug/mL

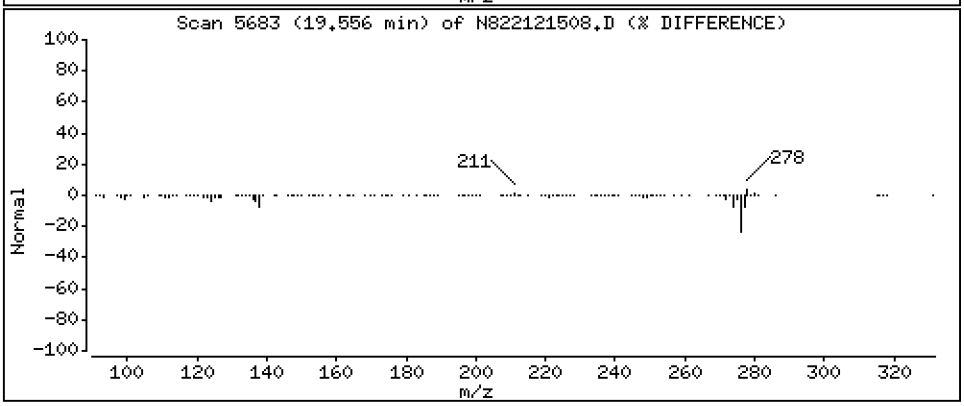












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121508.D

Date : 15-DEC-2022 18:01

Client ID:

Instrument: nt8.i

Sample Info: BKL0196-SRM1,

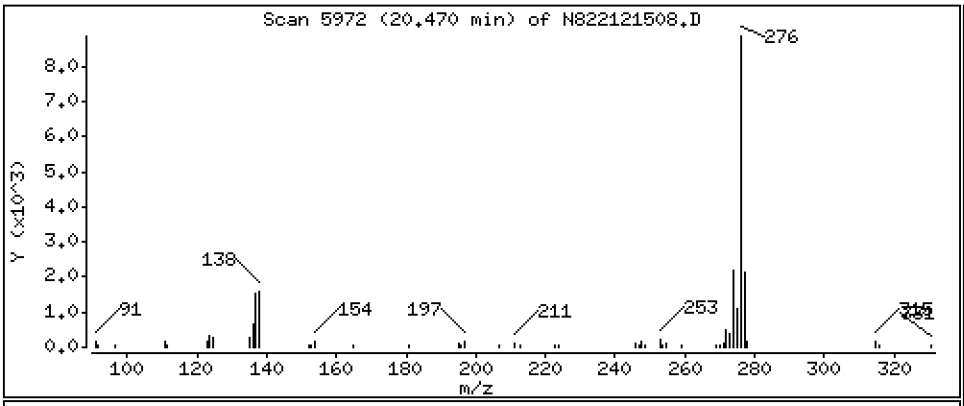
Operator: JZ

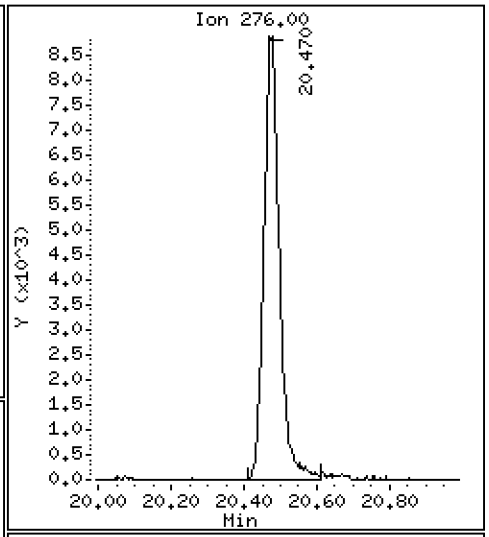
Column phase: Rxi-17sil

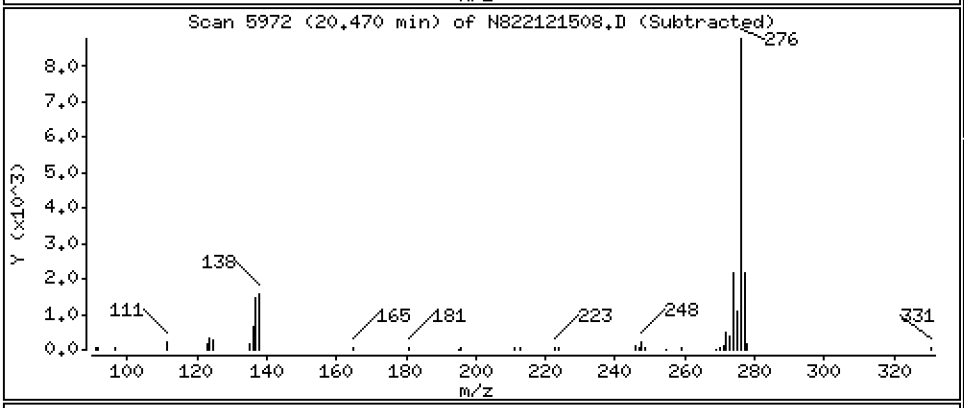
Column diameter: 0.25

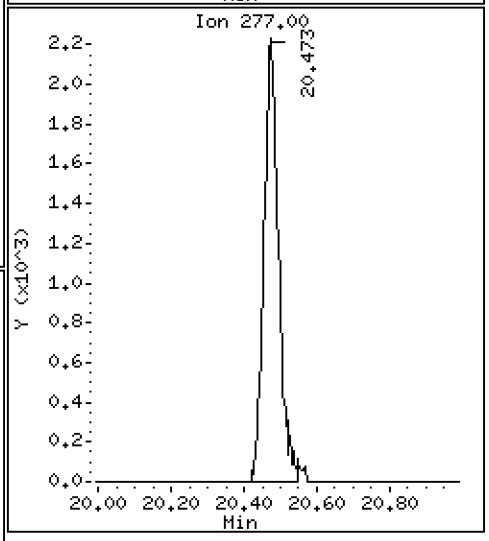
39 Benzo(g,h,i)perylene

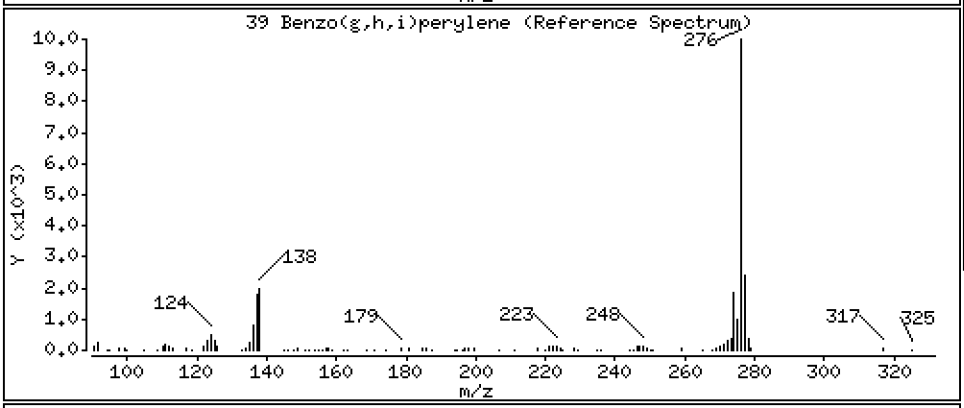
Concentration: 1.171 ug/mL

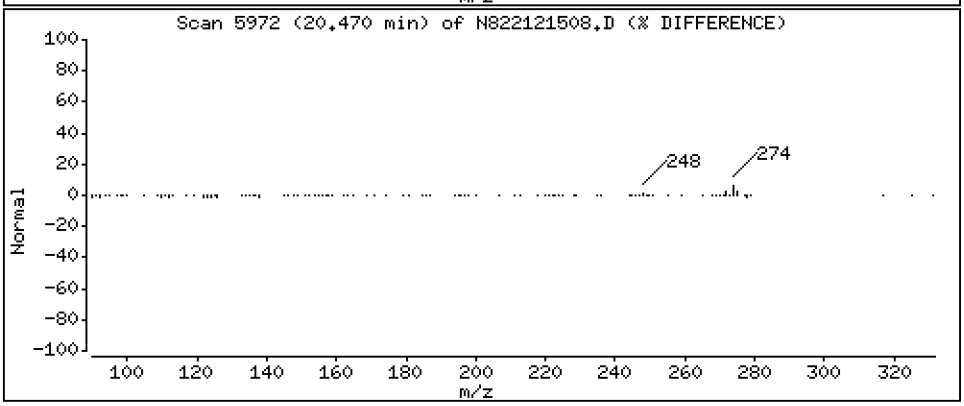












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20221215.b\N822121508.D
Lab Smp Id: BKL0196-SRM1
Inj Date : 15-DEC-2022 18:01
Operator : JZ Inst ID: nt8.i
Smp Info : BKL0196-SRM1,
Misc Info : 22-
Comment   : 1ul Injection
Method   : \\target\share\chem3\nt8.i\20221215.b\FSIMPNA220411.m
Meth Date : 16-Dec-2022 15:49 jianqing Quant Type: ISTD
Cal Date : 12-APR-2022 15:49 Cal File: NT822041208.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PNAXMDL.sub
Target Version: 4.14
Processing Host: JIANQING-202105

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
*	1 Naphthalene-d8	136	4.508	4.521	(1.000)	42653	2.00000	
	2 Naphthalene	128	4.536	4.549	(1.006)	46699	2.16075	2.161
$	3 2-Methylnaphthalene-d10	152	5.238	5.248	(1.162)	22660	1.40857	1.409
	4 2-Methylnaphthalene	141	5.283	5.295	(1.172)	354	0.02879	0.02879
	5 1-methylnaphthalene	141	5.488	5.488	(1.217)	269	0.02237	0.02237
	9 Acenaphthylene	152	6.668	6.677	(0.984)	55227	2.48596	2.486
*	10 Acenaphthene-d10	164	6.778	6.785	(1.000)	25712	2.00000	
	11 Acenaphthene	153	6.826	6.835	(1.007)	32282	2.19004	2.190
	12 Dibenzofuran	168	Compound Not Detected.					
	14 Fluorene	166	7.452	7.458	(1.099)	28155	1.69234	1.692
*	15 Phenanthrene-d10	188	8.799	8.805	(1.000)	48752	2.00000	
	16 Phenanthrene	178	8.834	8.840	(1.004)	28716	1.11034	1.110
	17 Anthracene	178	8.875	8.881	(1.009)	21109	0.85216	0.8522
	22 Fluoranthene	202	10.503	10.512	(1.194)	41445	1.46462	1.465
$	21 Fluoranthene-d10	212	10.468	10.478	(1.190)	52722	1.63542	1.635
	23 Pyrene	202	10.977	10.984	(0.817)	57120	1.72988	1.730
	24 Benzo(a)anthracene	228	13.324	13.333	(0.991)	15435	0.49986	0.4999
*	25 Chrysene-d12	240	13.444	13.453	(1.000)	48854	2.00000	
	27 Chrysene	228	13.516	13.526	(1.005)	32397	1.09802	1.098
	28 Benzo(b)fluoranthene	252	15.970	15.986	(0.927)	47796	1.56205	1.562
	29 Benzo(k)fluoranthene	252	16.027	16.043	(0.931)	41148	1.44967	1.450
	30 Benzo(j)fluoranthene	252	Compound Not Detected.					
	31 Total Benzofluoranthenes	252	15.970	15.986	(0.927)	87980	3.11746	3.117(M)
	32 Benzo(a)pyrene	252	16.995	17.004	(0.987)	6635	0.26269	0.2627
*	33 Perylene-d12	264	17.219	17.229	(1.000)	43096	2.00000	
	35 Perylene	252	Compound Not Detected.					
$	36 Dibenzo(a,h)anthracene-d14	292	19.461	19.470	(1.130)	46808	2.52830	2.528
	37 Indeno(1,2,3-cd)pyrene	276	19.575	19.587	(1.137)	34187	1.38004	1.380
	38 Dibenzo(a,h)anthracene	278	19.556	19.568	(1.136)	26419	1.23624	1.236
	39 Benzo(g,h,i)perylene	276	20.470	20.492	(1.189)	26996	1.17149	1.171

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt8.i
Lab File ID: N822121508.D
Lab Smp Id: BKL0196-SRM1
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: \\target\share\chem3\nt8.i\20221215.b\FSIMPNA220411.m
Misc Info: 22-

Calibration Date: 15-DEC-2022
Calibration Time: 10:02
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	49492	24746	98984	42653	-13.82
10 Acenaphthene-d10	30076	15038	60152	25712	-14.51
15 Phenanthrene-d10	58825	29413	117650	48752	-17.12
25 Chrysene-d12	58593	29297	117186	48854	-16.62
33 Perylene-d12	63012	31506	126024	43096	-31.61

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	4.52	4.02	5.02	4.51	-0.28
10 Acenaphthene-d10	6.79	6.29	7.29	6.78	-0.09
15 Phenanthrene-d10	8.81	8.31	9.31	8.80	-0.07
25 Chrysene-d12	13.45	12.95	13.95	13.44	-0.07
33 Perylene-d12	17.23	16.73	17.73	17.22	-0.05

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

REVIEW SUMMARY FOR FILE - N822121508.D

Lab ID: BKL0196-SRM1
nt8.i, 20221215.b\FSIMPNA220411.m,   15-DEC-2022 18:01

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

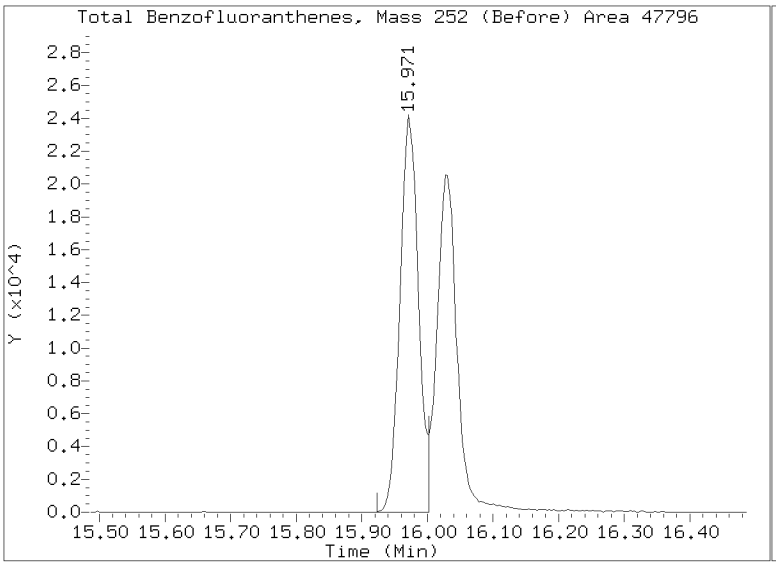
No RRT check performed

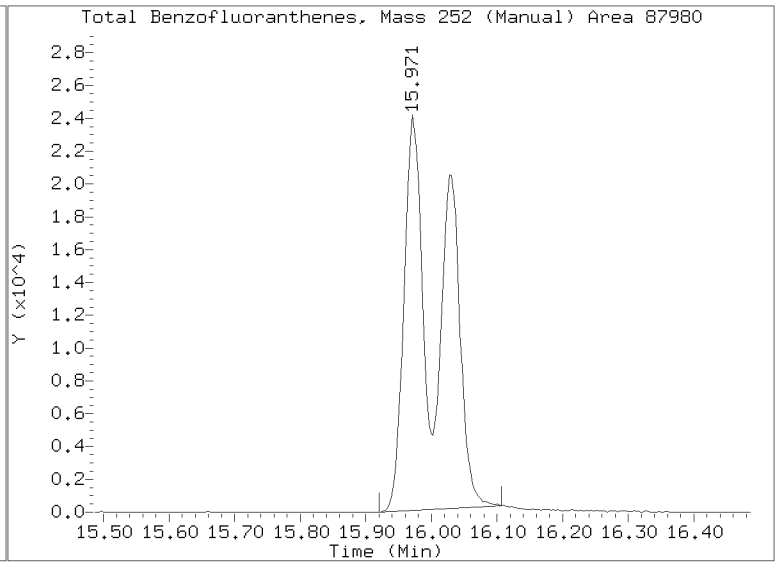
On Column LOD for nt8.i, 20221215.b\FSIMPNA220411.m, PNAXMDL.sub = 0.0080

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20221215.b/N822121508.D
Injection Date: 15-DEC-2022 18:01
Lab ID:BKL0196-SRM1 Client ID:
Report Date: 12/16/2022 16:17





Analytical Resources, LLC
Analytical Chemists and Consultants

MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270E-SIM

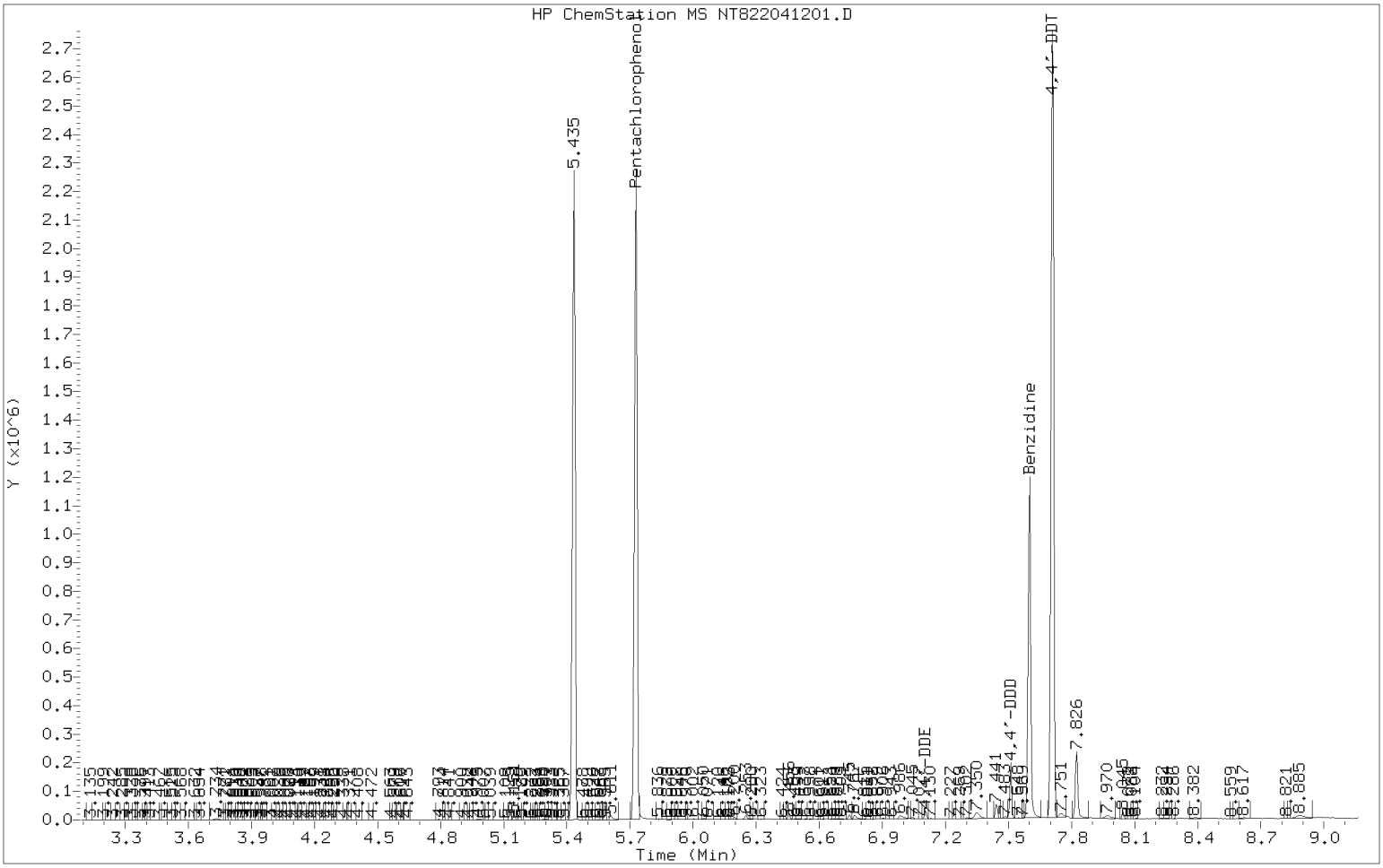
Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Lab File ID:	NT822041201.D	Injection Date:	04/12/22
Instrument ID:	NT8	Injection Time:	12:48
Sequence:	SKD0159	Lab Sample ID:	SKD0159-TUN1

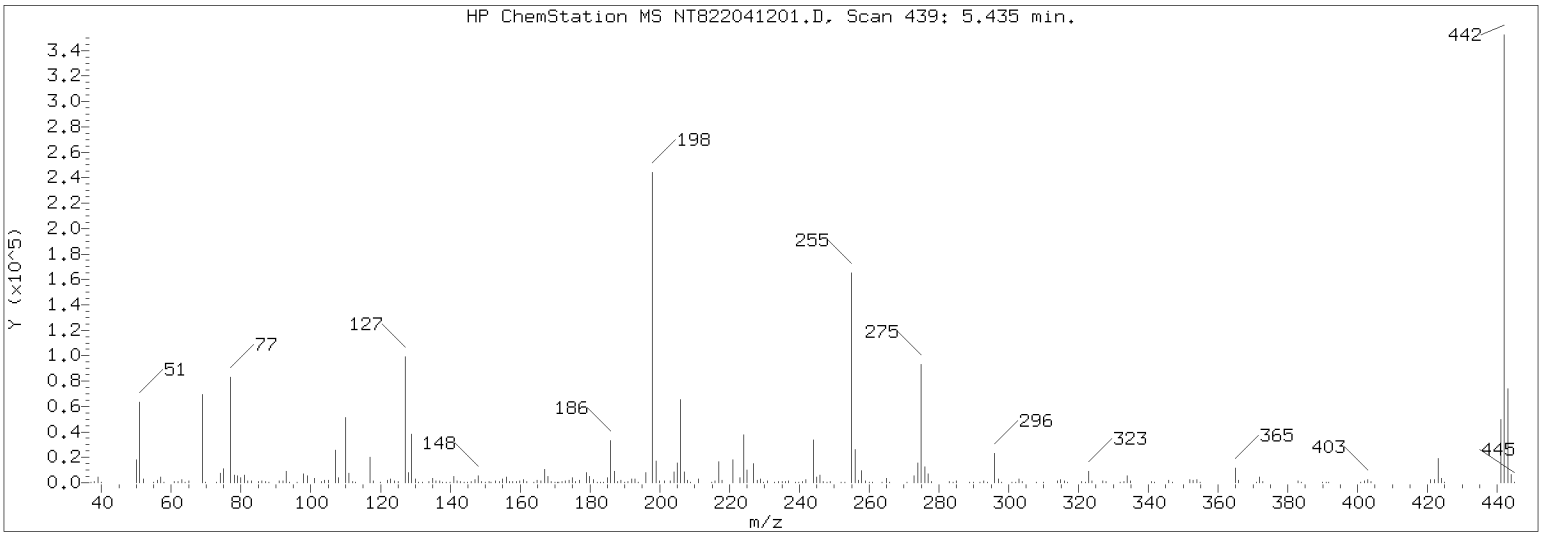
m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of 69	0	PASS
69	Less than 100% of 198	27.4	PASS
70	Less than 2% of 69	0.492	PASS
197	Less than 2% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.08	PASS
365	1 - 100% of 198	4.34	PASS
441	Less than 150% of 443	69.5	PASS
442	1 - 200% of 198	134	PASS
443	15 - 24% of 442	20.5	PASS
4,4'-DDD	Less than 20% of 4,4'-DDT		
4,4'-DDE	Less than 20% of		
4,4'-DDT	Less than 200% of		

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
MS Tune	SKD0159-TUN1	NT822041201.D	04/12/2022	12:48
Initial Cal Blank	SKD0159-ICB1	NT822041202.D	04/12/2022	13:06
Cal Standard	SKD0159-CAL1	NT822041203.D	04/12/2022	13:33
Cal Standard	SKD0159-CAL2	NT822041204.D	04/12/2022	14:00
Cal Standard	SKD0159-CAL3	NT822041205.D	04/12/2022	14:27
Cal Standard	SKD0159-CAL4	NT822041206.D	04/12/2022	14:55
Cal Standard	SKD0159-CAL5	NT822041207.D	04/12/2022	15:22
Cal Standard	SKD0159-CAL6	NT822041208.D	04/12/2022	15:49
Secondary Cal Check	SKD0159-SCV1	NT822041209.D	04/12/2022	16:16

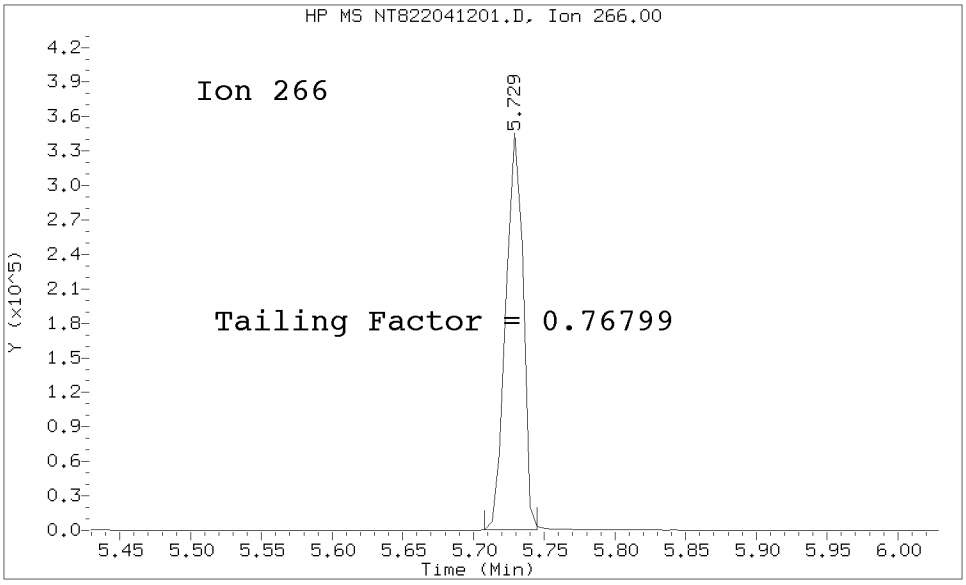
DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20220412.b/tune.b/NT822041201.D/NT822041201.D
Method Used: \20220412.b\tune.b\DFTPP.m Inst: nt8
Injection Date: 12-APR-2022 12:48 Operator: JZ
Sample Info: SKD0159-TUN1 DFTPP220412
Report Date: 04/19/2022 13:44



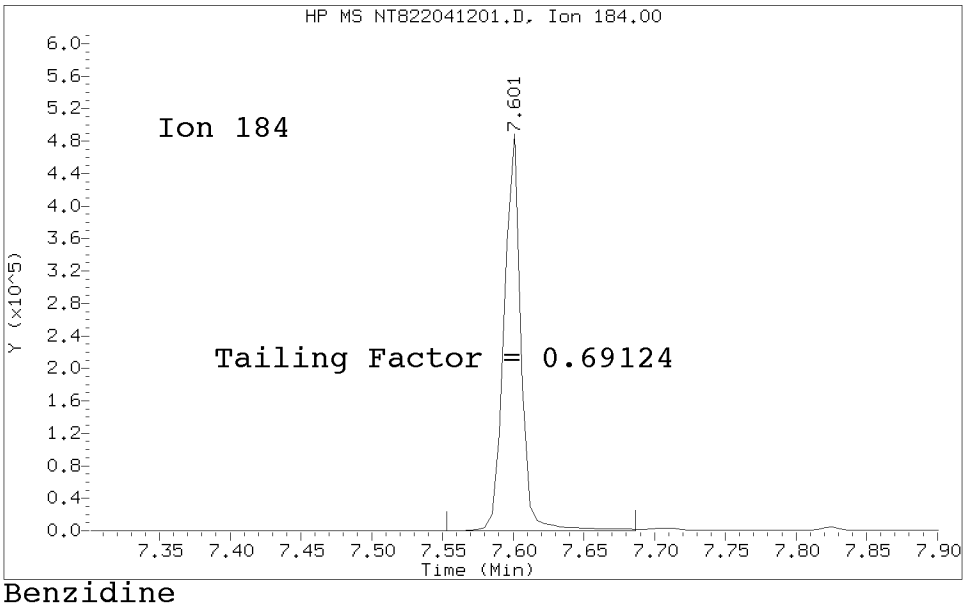


Datafile Analyzed: /20220412.b/tune.b/NT822041201.D/NT822041201.D
Method Used: \20220412.b\tune.b\DFTPP.m\sw846ddt.m Inst: nt8
Injection Date: 12-APR-2022 12:48 Operator: JZ
Sample Info: DFTPP220412
Report Date: 04/19/2022 13:44



Pentachlorophenol
==========
Exp. RT = 5.735
Found RT = 5.729

Tail Factor = 0.768 Maximum Allowed = 2.0



Benzidine
==========
Exp. RT = 7.612
Found RT = 7.601

Tail Factor = 0.691 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.7679901	2.000	PASS
Benzidine	0.6912442	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	507512			N/A
4,4-DDE	2835	0.6	20.0	PASS
4,4-DDD	25828	4.8	20.0	PASS
4,4-DDD + DDE	28663	5.3	20.0	PASS

Tuning Sample, /nt8.i/20220412.b/tune.b/NT822041201.D, *** PASSED ***

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	23.87
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	27.45
70	Less than 2.00% of mass 69	0.13 (0.49)
127	10.00 - 80.00% of mass 198	40.11
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.08
275	10.00 - 60.00% of mass 198	35.86
365	Greater than 1.00% of mass 198	4.34
441	0.01 - 24.00% of mass 442	19.15 (14.28)
442	50.00 - 200.00% of mass 198	134.13
443	15.00 - 24.00% of mass 442	27.55 (20.54)

Data File: NT822041201.D
Spectrum: Avg. Scans 438-440 (5.43), Background Scan 432
Location of Maximum: 442.00
Number of points: 254

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	195	130.00	2742	198.00	207424	285.00	1035
38.00	708	131.00	529	199.00	14676	289.00	97
39.00	3711	132.00	248	200.00	1098	290.00	84
40.00	86	134.00	966	201.00	1115	292.00	326
50.00	13579	135.00	2694	203.00	1421	293.00	1321
51.00	49504	136.00	1060	204.00	7266	294.00	205
52.00	2570	137.00	1377	205.00	12847	296.00	18344
55.00	54	138.00	390	206.00	54696	297.00	2581
56.00	1656	139.00	93	207.00	7174	298.00	105
57.00	3349	140.00	266	208.00	1751	301.00	104
58.00	85	141.00	4183	209.00	549	302.00	361
61.00	731	142.00	1449	210.00	314	303.00	2321
62.00	814	143.00	958	211.00	2356	304.00	640
63.00	2232	144.00	226	215.00	583	308.00	238
64.00	266	145.00	190	216.00	884	310.00	198
65.00	1152	146.00	763	217.00	14012	314.00	988
69.00	56936	147.00	2218	218.00	1896	315.00	2234
70.00	280	148.00	4659	219.00	86	316.00	1274
73.00	558	149.00	974	221.00	14579	317.00	93
74.00	6092	150.00	255	223.00	3302	321.00	637
75.00	9429	151.00	838	224.00	31816	322.00	277
76.00	725	152.00	252	225.00	8325	323.00	7034
77.00	68016	153.00	1376	227.00	12719	324.00	1206
78.00	4741	154.00	1063	228.00	1795	327.00	1199
79.00	4526	155.00	2416	229.00	2736	328.00	675
80.00	3327	156.00	3798	230.00	373	332.00	542
81.00	5012	157.00	825	231.00	1284	333.00	679
82.00	1223	158.00	852	233.00	96	334.00	4315
83.00	1172	159.00	602	234.00	752	335.00	1090
84.00	95	160.00	1335	235.00	978	341.00	730
85.00	914	161.00	2085	236.00	645	342.00	188
86.00	1460	162.00	630	237.00	1115	346.00	1574
87.00	697	164.00	330	239.00	581	347.00	208
88.00	181	165.00	1536	240.00	429	352.00	2113
91.00	1196	166.00	1391	241.00	770	353.00	1487
92.00	1315	167.00	8735	242.00	1945	354.00	2220
93.00	7516	168.00	4223	243.00	1235	355.00	402
94.00	564	169.00	727	244.00	28152	365.00	9003
96.00	412	170.00	262	245.00	3642	366.00	1366
97.00	117	171.00	523	246.00	5057	370.00	89
98.00	5992	172.00	759	247.00	1049	371.00	542
99.00	4633	173.00	1033	248.00	209	372.00	3628
100.00	291	174.00	1877	249.00	985	373.00	944
101.00	2777	175.00	3612	252.00	100	383.00	1019
103.00	1003	176.00	1121	253.00	565	384.00	217
104.00	1782	177.00	1660	255.00	137088	390.00	511
105.00	1747	179.00	6881	256.00	21256	391.00	390
107.00	21712	180.00	4545	257.00	1665	392.00	213
108.00	3352	181.00	2179	258.00	7896	401.00	98

110.00	42488	182.00	404	259.00	1223	402.00	1325
111.00	6177	183.00	89	260.00	98	403.00	1990
112.00	788	184.00	550	261.00	186	404.00	728
113.00	249	185.00	3371	264.00	175	421.00	1810
116.00	498	186.00	27320	265.00	2997	422.00	1778
117.00	16616	187.00	7709	266.00	467	423.00	15062
118.00	1271	188.00	819	271.00	221	424.00	2910
120.00	223	189.00	1665	273.00	4663	425.00	248
122.00	1522	190.00	228	274.00	12615	441.00	39728
123.00	2399	191.00	792	275.00	74376	442.00	278208
124.00	1048	192.00	2268	276.00	10150	443.00	57144
125.00	1005	193.00	2447	277.00	5643	444.00	5230
127.00	83192	194.00	530	278.00	920	445.00	261
128.00	6570	195.00	103	283.00	595		
129.00	32424	196.00	6836	284.00	472		

INITIAL CALIBRATION DATA

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FD00034	Instrument:	NT8
Calibration Date:	04/12/2022	Column (1):	RXI-17Sil ms

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	**RRF**	Conc	RRF	Conc	RRF	Conc	**RRF**	Conc	**RRF**
Naphthalene	0.1	1.14278	0.5	0.9534241	1	1.022714	2.5	0.9852216	5	1.000872	10	0.975416
2-Methylnaphthalene	0.1	0.6411704	0.5	0.5545827	1	0.5981829	2.5	0.5700157	5	0.5640811	10	0.531747
1-Methylnaphthalene	0.1	0.6270121	0.5	0.549722	1	0.5824657	2.5	0.5557218	5	0.5495912	10	0.5188614
2-Chloronaphthalene	0.1	0.6924101	0.5	0.5882079	1	0.6267989	2.5	0.5957674	5	0.5895997	10	0.5371637
Biphenyl	0.1	1.634099	0.5	1.324862	1	1.446762	2.5	1.410649	5	1.457452	10	1.468498
2,6-Dimethylnaphthalene	0.1	1.105519	0.5	0.9485083	1	1.052522	2.5	1.015017	5	1.013559	10	0.9604151
Acenaphthylene	0.1	1.884893	0.5	1.525746	1	1.694916	2.5	1.697779	5	1.774591	10	1.790245
Acenaphthene	0.1	1.314702	0.5	1.037901	1	1.146899	2.5	1.110539	5	1.140746	10	1.128651
Dibenzofuran	0.1	1.821914	0.5	1.486519	1	1.63692	2.5	1.572813	5	1.574754	10	1.558642
2,3,5-Trimethylnaphthalene	0.1	1.170748	0.5	0.9317127	1	1.050389	2.5	1.026205	5	1.0323	10	0.9873634
Fluorene	0.1	1.444598	0.5	1.150718	1	1.290908	2.5	1.263845	5	1.304457	10	1.309992
Dibenzothiophene	0.1	1.166175	0.5	0.9198167	1	1.003716	2.5	0.9804831	5	1.031033	10	1.039662
Phenanthrene	0.1	1.214524	0.5	0.9769632	1	1.055167	2.5	1.022399	5	1.055327	10	1.041495
Anthracene	0.1	1.166497	0.5	0.9497264	1	1.022057	2.5	1.0014	5	1.00408	10	0.9535244
Carbazole	0.1	1.0366	0.5	0.8338424	1	0.925982	2.5	0.9212051	5	0.9549	10	0.9562147
1-Methylphenanthrene	0.1	0.910893	0.5	0.7245132	1	0.8068133	2.5	0.7956629	5	0.82836	10	0.8216767
Fluoranthene	0.1	1.301874	0.5	1.070192	1	1.184415	2.5	1.14263	5	1.1634	10	1.102743
Pyrene	0.1	1.537441	0.5	1.2038	1	1.34199	2.5	1.316763	5	1.364268	10	1.346341
Benzo(a)anthracene	0.1	1.342544	0.5	1.093411	1	1.194649	2.5	1.216128	5	1.335935	10	1.402037
Chrysene	0.1	1.335175	0.5	1.086982	1	1.212355	2.5	1.182235	5	1.22671	10	1.203804
Benzo(b)fluoranthene	0.1	1.513903	0.5	1.164772	1	1.299811	2.5	1.348761	5	1.519553	10	1.673241
Benzo(k)fluoranthene	0.1	1.440917	0.5	1.130297	1	1.282949	2.5	1.273337	5	1.35918	10	1.41691
Benzo(j)fluoranthene	0.1	1.347781	0.5	1.053293	1	1.188489	2.5	1.186104	5	1.251829	10	1.233396
Benzofluoranthenes, Total	0.3	1.411066	1.5	1.108787	3	1.256294	7.5	1.270742	15	1.372339	30	1.439048
Benzo(e)pyrene	0.1	1.441813	0.5	1.139133	1	1.268066	2.5	1.283537	5	1.373601	10	1.458672
Benzo(a)pyrene	0.1	1.248377	0.5	1.040646	1	1.147712	2.5	1.138865	5	1.212706	10	1.244676
Perylene	0.1	1.272556	0.5	1.039174	1	1.165735	2.5	1.139483	5	1.202032	10	1.223688
Indeno(1,2,3-cd)pyrene	0.1	1.102852	0.5	0.9634682	1	1.088395	2.5	1.141523	5	1.247485	10	1.354141

INITIAL CALIBRATION DATA

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FD00034	Instrument:	NT8
Calibration Date:	04/12/2022	Column (1):	RXI-17Sil ms

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	**RRF**	Conc	RRF	Conc	RRF	Conc	**RRF**	Conc	**RRF**
Dibenzo(a,h)anthracene	0.1	0.9080733	0.5	0.8151757	1	0.9298434	2.5	0.9733068	5	1.097087	10	1.227074
Benzo(g,h,i)perylene	0.1	1.071061	0.5	0.9097642	1	0.9973331	2.5	1.034844	5	1.132296	10	1.271289
2-Methylnaphthalene-d10	0.1	0.8430953	0.5	0.7145853	1	0.7615226	2.5	0.7338036	5	0.7465609	10	0.7264224
Dibenzo[a,h]anthracene-d14			0.5	0.8010568	1	0.7868204	2.5	0.7925699	5	0.8893591	10	1.026096
Fluoranthene-d10	0.1	1.477864	0.5	1.170867	1	1.290506	2.5	1.274856	5	1.340633	10	1.380339

INITIAL CALIBRATION DATA

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FD00034	Instrument:	NT8
Calibration Date:	04/12/2022	Column (1):	RXI-17Sil ms

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Naphthalene	1.013405	6.7			RSD (15)	
2-Methylnaphthalene	0.57663	6.6			RSD (15)	
1-Methylnaphthalene	0.5638957	6.6			RSD (15)	
2-Chloronaphthalene	0.6049913	8.5			RSD (15)	
Biphenyl	1.457054	6.9			RSD (15)	
2,6-Dimethylnaphthalene	1.015923	5.7			RSD (15)	
Acenaphthylene	1.728028	7.0			RSD (15)	
Acenaphthene	1.146573	8.0			RSD (15)	
Dibenzofuran	1.608594	7.1			RSD (15)	
2,3,5-Trimethylnaphthalene	1.03312	7.7			RSD (15)	
Fluorene	1.294086	7.3			RSD (15)	
Dibenzothiophene	1.023481	8.0			RSD (15)	
Phenanthrene	1.060979	7.6			RSD (15)	
Anthracene	1.016214	7.8			RSD (15)	
Carbazole	0.938124	7.0			RSD (15)	
1-Methylphenanthrene	0.8146532	7.4			RSD (15)	
Fluoranthene	1.160876	6.9			RSD (15)	
Pyrene	1.351767	8.0			RSD (15)	
Benzo(a)anthracene	1.264117	9.1			RSD (15)	
Chrysene	1.207877	6.6			RSD (15)	
Benzo(b)fluoranthene	1.420007	12.9			RSD (15)	
Benzo(k)fluoranthene	1.317265	8.7			RSD (15)	
Benzo(j)fluoranthene	1.210149	8.0			RSD (15)	
Benzofluoranthenes, Total	1.309713	9.4			RSD (15)	
Benzo(e)pyrene	1.32747	9.1			RSD (15)	
Benzo(a)pyrene	1.172164	6.8			RSD (15)	
Perylene	1.173778	6.9			RSD (15)	
Indeno(1,2,3-cd)pyrene	1.149644	11.8			RSD (15)	
Dibenzo(a,h)anthracene	0.99176	14.9			RSD (15)	
Benzo(g,h,i)perylene	1.069431	11.6			RSD (15)	
2-Methylnaphthalene-d10	0.7543317	6.2			RSD (15)	

INITIAL CALIBRATION DATA

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FD00034	Instrument:	NT8
Calibration Date:	04/12/2022	Column (1):	RXI-17Sil ms

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Dibenzo[a,h]anthracene-d14	0.8591804	11.9			RSD (15)	
Fluoranthene-d10	1.322511	7.9			RSD (15)	

Printed: 4/19/2022 2:35:19PM

ANALYSIS SEQUENCE

SKD0159

Instrument: NT8 Element Column ID: J006458
Calibration ID: FD00034 Tune File: 220110.U
EM Voltage: 1494

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SKD0159-TUN1	MS Tune	QC		1	J006358		
SKD0159-ICB1	Initial Cal Blank	QC		2		K003356	
SKD0159-CAL1	8270 SIM PNA 0.1	QC		3	K003357	K003356	
SKD0159-CAL2	8270 SIM PNA 0.5	QC		4	K003358	K003356	
SKD0159-CAL3	8270 SIM PNA 1.0	QC		5	K003359	K003356	
SKD0159-CAL4	8270 SIM PNA 2.5	QC		6	K003360	K003356	
SKD0159-CAL5	8270 SIM PNA 5	QC		7	K003361	K003356	
SKD0159-CAL6	8270 SIM PNA 10	QC		8	K003362	K003356	
SKD0159-SCV1	8270 SIM PNA SCV	QC		9	K000320	K003356	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt8.i\20220412.b

	Time	Filename	LabID	ClientId	DF									
1	1248	NT822041201.D	SKD0159-TUN1		1	|NO ISTDS FOUND||								
2	1306	NT822041202.D	SKD0159-ICB1		1	| 4.80	59516||	7.08	35527||	9.11	61889||	13.95	54184||	17.80	42531|
3	1333	NT822041203.D	SKD0159-CAL1		1	| 4.80	59329||	7.08	35567||	9.10	62049||	13.95	54285||	17.79	44666|
4	1400	NT822041204.D	SKD0159-CAL2		1	| 4.80	60074||	7.08	36200||	9.10	62856||	13.95	55368||	17.80	46179|
5	1427	NT822041205.D	SKD0159-CAL3		1	| 4.80	60316||	7.08	35623||	9.10	62701||	13.95	55911||	17.80	46496|
6	1455	NT822041206.D	SKD0159-CAL4		1	| 4.80	56136||	7.08	32604||	9.10	58288||	13.95	52801||	17.80	42745|
7	1522	NT822041207.D	SKD0159-CAL5		1	| 4.80	60787||	7.08	34192||	9.10	60000||	13.95	53717||	17.80	42910|
8	1549	NT822041208.D	SKD0159-CAL6		1	| 4.80	60812||	7.08	32477||	9.10	56946||	13.95	51361||	17.80	39041|
9	1616	NT822041209.D	SKD0159-SCV1		1	| 4.80	54442||	7.08	33053||	9.10	57165||	13.95	49400||	17.79	42338|

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt8.i\20220412.b

ARI Job No.: SKD0 Method: FSIMPNA220411.m Instrument: nt8.i Date: 12-APR-2022

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1306	NT822041202.D	SKD0159-ICB1		1	NO MANUAL INTEGRATION
1333	NT822041203.D	SKD0159-CAL1		1	Pyrene, Total Benzofluoranthenes, Dibenzo(a,h)anthracene-d14,
1400	NT822041204.D	SKD0159-CAL2		1	Pyrene, Total Benzofluoranthenes, Benzo(g,h,i)perylene, Dibenzo(a,h)anthracene-d14,
1427	NT822041205.D	SKD0159-CAL3		1	Pyrene, Total Benzofluoranthenes,
1455	NT822041206.D	SKD0159-CAL4		1	Pyrene, Total Benzofluoranthenes,
1522	NT822041207.D	SKD0159-CAL5		1	Pyrene, Total Benzofluoranthenes,
1549	NT822041208.D	SKD0159-CAL6		1	Pyrene, Total Benzofluoranthenes,
1616	NT822041209.D	SKD0159-SCV1		1	Pyrene, Total Benzofluoranthenes,

Security Status Report

Date: 19-Apr-2022 14:28

NT822041201.D	Data Locked	jianqing, 19-Apr-2022 14:28
NT822041202.D	Data Locked	jianqing, 19-Apr-2022 14:28
NT822041203.D	Data Locked	jianqing, 19-Apr-2022 14:28
NT822041204.D	Data Locked	jianqing, 19-Apr-2022 14:28
NT822041205.D	Data Locked	jianqing, 19-Apr-2022 14:28
NT822041206.D	Data Locked	jianqing, 19-Apr-2022 14:28
NT822041207.D	Data Locked	jianqing, 19-Apr-2022 14:28
NT822041208.D	Data Locked	jianqing, 19-Apr-2022 14:28
NT822041209.D	Data Locked	jianqing, 19-Apr-2022 14:28

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-APR-2022 13:33
End Cal Date : 12-APR-2022 15:49
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt8.i\20220412.b\FSIMPNA220411.m
Last Edit : 19-Apr-2022 13:44 Jianqing
Curve Type : Average

Calibration File Names:
Level 1: \\target\share\chem3\nt8.i\20220412.b\NT822041203.D
Level 2: \\target\share\chem3\nt8.i\20220412.b\NT822041204.D
Level 3: \\target\share\chem3\nt8.i\20220412.b\NT822041205.D
Level 4: \\target\share\chem3\nt8.i\20220412.b\NT822041206.D
Level 5: \\target\share\chem3\nt8.i\20220412.b\NT822041207.D
Level 6: \\target\share\chem3\nt8.i\20220412.b\NT822041208.D

	0.10000	0.50000	1.000	2.500	5.000	10.000	___	
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD
2 Naphthalene	1.14278	0.95342	1.02271	0.98522	1.00087	0.97542	1.01340	6.666
4 2-Methylnaphthalene	0.64117	0.55458	0.59818	0.57002	0.56408	0.53175	0.57663	6.641
5 1-methylnaphthalene	0.62701	0.54972	0.58247	0.55572	0.54959	0.51886	0.56390	6.554
6 2-Chloronaphthalene	0.69241	0.58821	0.62680	0.59577	0.58960	0.53716	0.60499	8.532
7 Biphenyl	1.63410	1.32486	1.44676	1.41065	1.45745	1.46850	1.45705	6.946
8 2,6-Dimethylnaphthalene	1.10552	0.94851	1.05252	1.01502	1.01356	0.96042	1.01592	5.739
9 Acenaphthylene	1.88489	1.52575	1.69492	1.69778	1.77459	1.79025	1.72803	7.020
11 Acenaphthene	1.31470	1.03790	1.14690	1.11054	1.14075	1.12865	1.14657	7.968
12 Dibenzofuran	1.82191	1.48652	1.63692	1.57281	1.57475	1.55864	1.60859	7.149
13 1,6,7-Trimethylnaphthalene	1.17075	0.93171	1.05039	1.02621	1.03230	0.98736	1.03312	7.703
14 Fluorene	1.44460	1.15072	1.29091	1.26384	1.30446	1.30999	1.29409	7.290
16 Phenanthrene	1.21452	0.97696	1.05517	1.02240	1.05533	1.04150	1.06098	7.607
17 Anthracene	1.16650	0.94973	1.02206	1.00140	1.00408	0.95352	1.01621	7.790
18 Dibenzothiophene	1.16618	0.91982	1.00372	0.98048	1.03103	1.03966	1.02348	8.017
19 Carbazole	1.03660	0.83384	0.92598	0.92121	0.95490	0.95621	0.93812	7.009
20 1-Methylphenanthrene	0.91089	0.72451	0.80681	0.79566	0.82836	0.82168	0.81465	7.375

22 Fluoranthene	1.30187	1.07019	1.18441	1.14263	1.16340	1.10274	1.16088	6.932
23 Pyrene	1.53744	1.20380	1.34199	1.31676	1.36427	1.34634	1.35177	7.959
24 Benzo(a)anthracene	1.34254	1.09341	1.19465	1.21613	1.33593	1.40204	1.26412	9.130
27 Chrysene	1.33518	1.08698	1.21236	1.18224	1.22671	1.20380	1.20788	6.610
28 Benzo(b)fluoranthene	1.51390	1.16477	1.29981	1.34876	1.51955	1.67324	1.42001	12.890
29 Benzo(k)fluoranthene	1.44092	1.13030	1.28295	1.27334	1.35918	1.41691	1.31727	8.658
30 Benzo(j)fluoranthene	1.34778	1.05329	1.18849	1.18610	1.25183	1.23340	1.21015	8.001
31 Total Benzofluoranthenes	1.41107	1.10879	1.25629	1.27074	1.37234	1.43905	1.30971	9.393
32 Benzo(a)pyrene	1.24838	1.04065	1.14771	1.13887	1.21271	1.24468	1.17216	6.794
34 Benzo(e)pyrene	1.44181	1.13913	1.26807	1.28354	1.37360	1.45867	1.32747	9.124
35 Perylene	1.27256	1.03917	1.16573	1.13948	1.20203	1.22369	1.17378	6.859
37 Indeno(1,2,3-cd)pyrene	1.10285	0.96347	1.08839	1.14152	1.24749	1.35414	1.14964	11.803

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-APR-2022 13:33
End Cal Date : 12-APR-2022 15:49
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt8.i\20220412.b\FSIMPNA220411.m
Last Edit : 19-Apr-2022 13:44 Jianqing
Curve Type : Average

	0.10000	0.50000	1.000	2.500	5.000	10.000	___	
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD
38 Dibenzo(a,h)anthracene	0.90807	0.81518	0.92984	0.97331	1.09709	1.22707	0.99176	14.876
39 Benzo(g,h,i)perylene	1.07106	0.90976	0.99733	1.03484	1.13230	1.27129	1.06943	11.573
$ 3 2-Methylnaphthalene-d10	0.84310	0.71459	0.76152	0.73380	0.74656	0.72642	0.75433	6.153
$ 21 Fluoranthene-d10	1.47786	1.17087	1.29051	1.27486	1.34063	1.38034	1.32251	7.865
$ 36 Dibenzo(a,h)anthracene-d14	+++++	0.80106	0.78682	0.79257	0.88936	1.02610	0.85918	11.901

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt8.i\20220412.b\FSIMPNA220411.m
Batch File: \\target\share\chem3\nt8.i\20220412.b
Inst ID: nt8.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06
FILENAME:	NT822041203	NT822041204	NT822041205	NT822041206	NT822041207	NT822041208
INJ.DATE:	12-APR-2022	12-APR-2022	12-APR-2022	12-APR-2022	12-APR-2022	12-APR-2022
INJ.TIME:	13:33	14:00	14:27	14:55	15:22	15:49

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
*	1 Naphthalene-d8	4.800	4.800	4.800	4.800	4.800	4.800	4.800	1.800-7.800	4.800	0.000
	2 Naphthalene	4.828	4.828	4.828	4.828	4.828	4.828	4.828	1.828-7.828	4.828	0.000
$	3 2-Methylnaphthalene-d1	5.527	5.527	5.527	5.527	5.527	5.530	5.527	2.527-8.527	5.528	0.001
	4 2-Methylnaphthalene	5.574	5.574	5.574	5.574	5.574	5.578	5.574	2.574-8.574	5.575	0.001
	5 1-methylnaphthalene	5.774	5.771	5.771	5.770	5.774	5.774	5.774	2.774-8.774	5.772	0.002
	6 2-Chloronaphthalene	6.261	6.261	6.261	6.261	6.261	6.264	6.261	3.261-9.261	6.261	0.001
	7 Biphenyl	6.232	6.232	6.232	6.232	6.235	6.235	6.232	3.232-9.232	6.233	0.002
	8 2,6-Dimethylnaphthalen	6.276	6.273	6.273	6.273	6.276	6.276	6.276	3.276-9.276	6.275	0.002
	9 Acenaphthylene	6.966	6.966	6.966	6.966	6.966	6.969	6.966	3.966-9.966	6.966	0.001
*	10 Acenaphthene-d10	7.076	7.076	7.076	7.076	7.076	7.076	7.076	4.076-10.076	7.076	0.000
	11 Acenaphthene	7.127	7.124	7.127	7.127	7.127	7.127	7.127	4.127-10.127	7.126	0.001
	12 Dibenzofuran	7.276	7.276	7.276	7.276	7.276	7.276	7.276	4.276-10.276	7.276	0.000
	13 1,6,7-Trimethylnaphtha	7.342	7.342	7.342	7.342	7.342	7.345	7.342	4.342-10.342	7.342	0.001
	14 Fluorene	7.750	7.750	7.750	7.750	7.750	7.753	7.750	4.750-10.750	7.750	0.001
*	15 Phenanthrene-d10	9.103	9.103	9.103	9.103	9.103	9.103	9.103	6.103-12.103	9.103	0.000
	16 Phenanthrene	9.138	9.138	9.138	9.138	9.138	9.141	9.138	6.138-12.138	9.138	0.001
	17 Anthracene	9.179	9.179	9.176	9.179	9.179	9.182	9.179	6.179-12.179	9.179	0.002

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

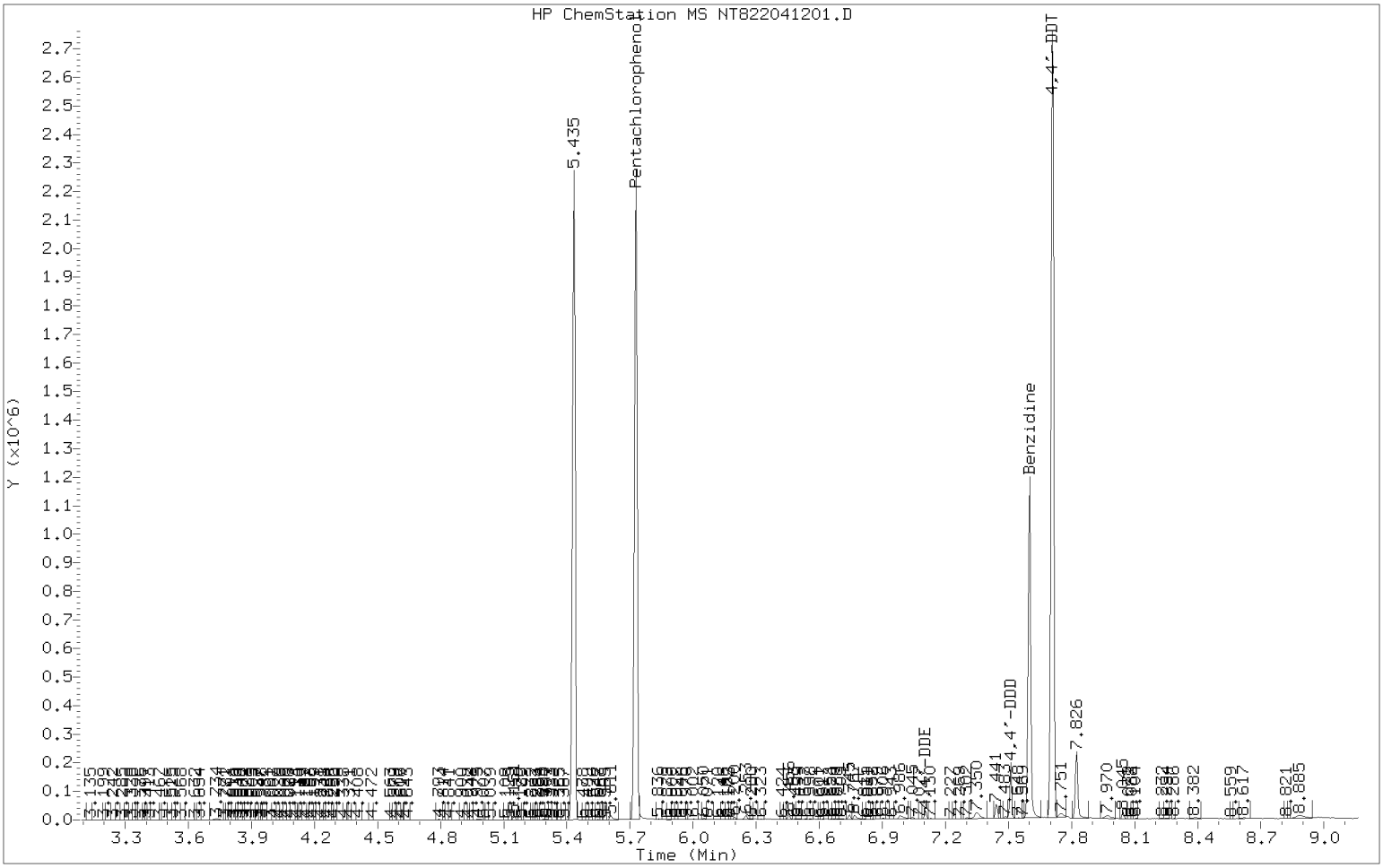
ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

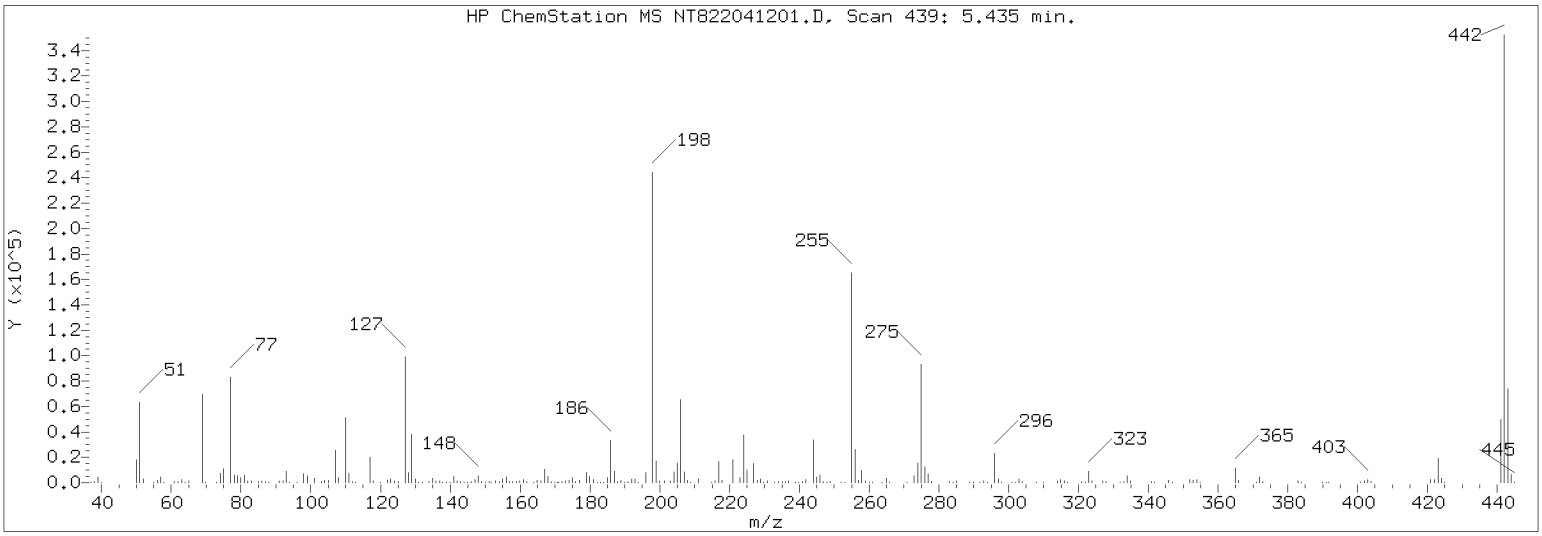
Method File: \\target\share\chem3\nt8.i\20220412.b\FSIMPNA220411.m
Batch File: \\target\share\chem3\nt8.i\20220412.b
Inst ID: nt8.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	18 Dibenzothiophene	8.980	8.977	8.980	8.977	8.980	8.980	8.980	5.980-11.980	8.979	0.002
	19 Carbazole	9.688	9.688	9.688	9.688	9.688	9.691	9.688	6.688-12.688	9.689	0.001
	20 1-Methylphenanthrene	9.900	9.900	9.903	9.903	9.903	9.906	9.900	6.900-12.900	9.903	0.002
$	21 Fluoranthene-d10	10.839	10.839	10.842	10.842	10.842	10.845	10.839	7.839-13.839	10.842	0.002
	22 Fluoranthene	10.874	10.874	10.877	10.877	10.877	10.880	10.874	7.874-13.874	10.877	0.002
	23 Pyrene	11.377	11.380	11.380	11.380	11.380	11.383	11.377	8.377-14.377	11.380	0.002
	24 Benzo(a)anthracene	13.818	13.821	13.821	13.821	13.824	13.827	13.818	10.818-16.818	13.822	0.003
*	25 Chrysene-d12	13.947	13.947	13.947	13.947	13.951	13.950	13.947	10.947-16.947	13.948	0.002
	27 Chrysene	14.020	14.020	14.020	14.020	14.023	14.026	14.020	11.020-17.020	14.022	0.003
	28 Benzo(b)fluoranthene	16.518	16.518	16.518	16.524	16.528	16.534	16.518	13.518-19.518	16.523	0.007
	29 Benzo(k)fluoranthene	16.584	16.581	16.581	16.584	16.588	16.597	16.584	13.584-19.584	16.586	0.006
	30 Benzo(j)fluoranthene	16.657	16.657	16.660	16.663	16.667	16.676	16.657	13.657-19.657	16.663	0.007
	31 Total Benzofluoranthen	16.518	16.518	16.581	16.524	16.528	16.534	16.518	13.518-19.518	16.534	0.024
	32 Benzo(a)pyrene	17.561	17.565	17.562	17.561	17.568	17.574	17.561	14.561-20.561	17.565	0.005
*	33 Perylene-d12	17.792	17.795	17.795	17.795	17.795	17.799	17.792	14.792-20.792	17.795	0.002
	34 Benzo(e)pyrene	17.432	17.435	17.432	17.435	17.444	17.444	17.432	14.432-20.432	17.437	0.006
	35 Perylene	17.865	17.868	17.868	17.868	17.875	17.878	17.865	14.865-20.865	17.870	0.005
$	36 Dibenzo(a,h)anthracene	20.132	20.135	20.135	20.135	20.145	20.157	20.132	17.132-23.132	20.140	0.010
	37 Indeno(1,2,3-cd)pyrene	20.246	20.246	20.243	20.246	20.259	20.271	20.246	17.246-23.246	20.252	0.011
	38 Dibenzo(a,h)anthracene	20.243	20.233	20.237	20.243	20.252	20.265	20.243	17.243-23.243	20.245	0.012
	39 Benzo(g,h,i)perylene	21.258	21.255	21.258	21.258	21.270	21.283	21.258	18.258-24.258	21.264	0.011

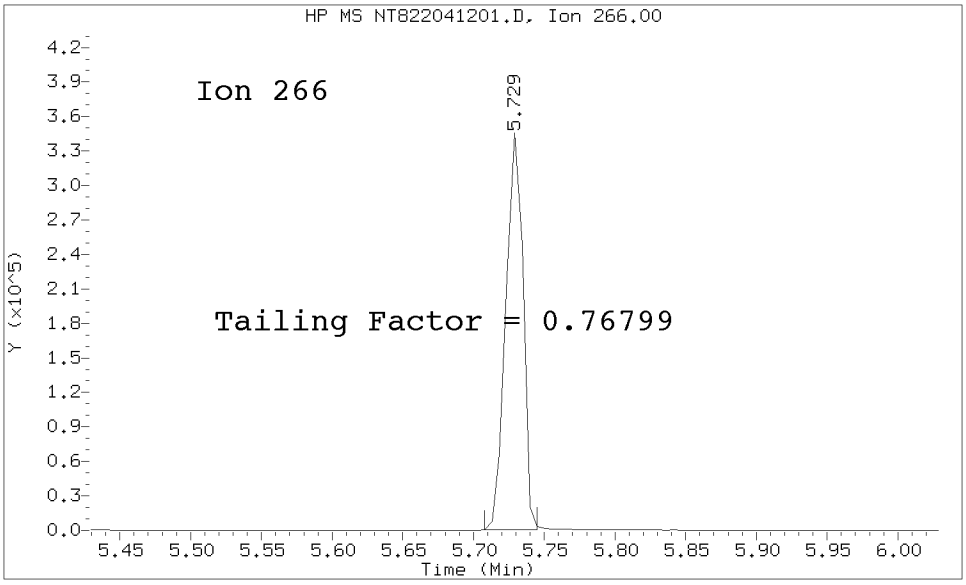
DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20220412.b/tune.b/NT822041201.D/NT822041201.D
Method Used: \20220412.b\tune.b\DFTPP.m Inst: nt8
Injection Date: 12-APR-2022 12:48 Operator: JZ
Sample Info: SKD0159-TUN1 DFTPP220412
Report Date: 04/26/2022 11:23



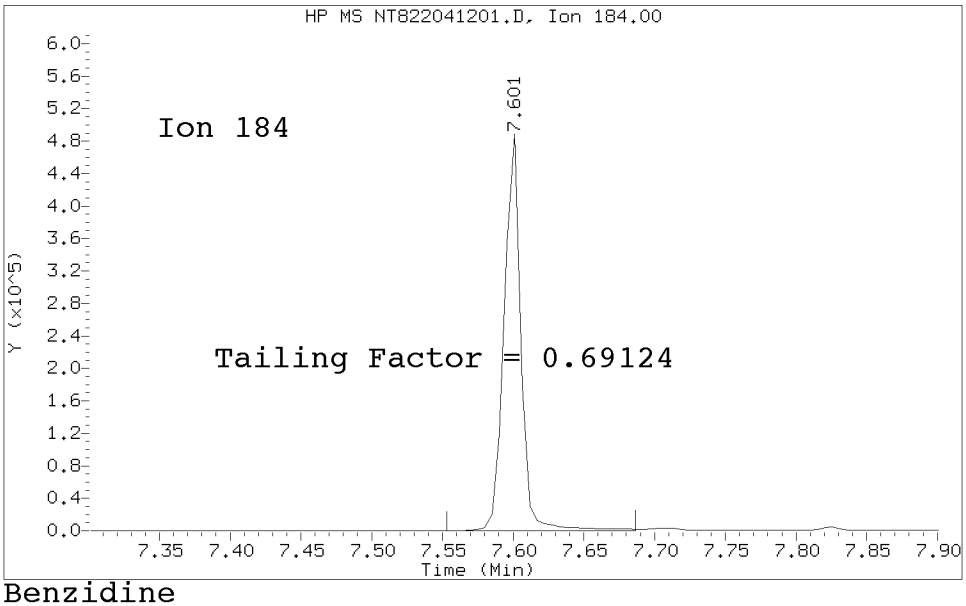


Datafile Analyzed: /20220412.b/tune.b/NT822041201.D/NT822041201.D
Method Used: \20220412.b\tune.b\DFTPP.m\sw846ddt.m Inst: nt8
Injection Date: 12-APR-2022 12:48 Operator: JZ
Sample Info: DFTPP220412
Report Date: 04/26/2022 11:23



Pentachlorophenol
==========
Exp. RT = 5.735
Found RT = 5.729

Tail Factor = 0.768 Maximum Allowed = 2.0



Benzidine
==========
Exp. RT = 7.612
Found RT = 7.601

Tail Factor = 0.691 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.7679901	2.000	PASS
Benzidine	0.6912442	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	507512			N/A
4,4-DDE	2835	0.6	20.0	PASS
4,4-DDD	25828	4.8	20.0	PASS
4,4-DDD + DDE	28663	5.3	20.0	PASS

Tuning Sample, /nt8.i/20220412.b/tune.b/NT822041201.D, *** PASSED ***

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	23.87
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	27.45
70	Less than 2.00% of mass 69	0.13 (0.49)
127	10.00 - 80.00% of mass 198	40.11
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.08
275	10.00 - 60.00% of mass 198	35.86
365	Greater than 1.00% of mass 198	4.34
441	0.01 - 24.00% of mass 442	19.15 (14.28)
442	50.00 - 200.00% of mass 198	134.13
443	15.00 - 24.00% of mass 442	27.55 (20.54)

Data File: NT822041201.D
Spectrum: Avg. Scans 438-440 (5.43), Background Scan 432
Location of Maximum: 442.00
Number of points: 254

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	195	130.00	2742	198.00	207424	285.00	1035
38.00	708	131.00	529	199.00	14676	289.00	97
39.00	3711	132.00	248	200.00	1098	290.00	84
40.00	86	134.00	966	201.00	1115	292.00	326
50.00	13579	135.00	2694	203.00	1421	293.00	1321
51.00	49504	136.00	1060	204.00	7266	294.00	205
52.00	2570	137.00	1377	205.00	12847	296.00	18344
55.00	54	138.00	390	206.00	54696	297.00	2581
56.00	1656	139.00	93	207.00	7174	298.00	105
57.00	3349	140.00	266	208.00	1751	301.00	104
58.00	85	141.00	4183	209.00	549	302.00	361
61.00	731	142.00	1449	210.00	314	303.00	2321
62.00	814	143.00	958	211.00	2356	304.00	640
63.00	2232	144.00	226	215.00	583	308.00	238
64.00	266	145.00	190	216.00	884	310.00	198
65.00	1152	146.00	763	217.00	14012	314.00	988
69.00	56936	147.00	2218	218.00	1896	315.00	2234
70.00	280	148.00	4659	219.00	86	316.00	1274
73.00	558	149.00	974	221.00	14579	317.00	93
74.00	6092	150.00	255	223.00	3302	321.00	637
75.00	9429	151.00	838	224.00	31816	322.00	277
76.00	725	152.00	252	225.00	8325	323.00	7034
77.00	68016	153.00	1376	227.00	12719	324.00	1206
78.00	4741	154.00	1063	228.00	1795	327.00	1199
79.00	4526	155.00	2416	229.00	2736	328.00	675
80.00	3327	156.00	3798	230.00	373	332.00	542
81.00	5012	157.00	825	231.00	1284	333.00	679
82.00	1223	158.00	852	233.00	96	334.00	4315
83.00	1172	159.00	602	234.00	752	335.00	1090
84.00	95	160.00	1335	235.00	978	341.00	730
85.00	914	161.00	2085	236.00	645	342.00	188
86.00	1460	162.00	630	237.00	1115	346.00	1574
87.00	697	164.00	330	239.00	581	347.00	208
88.00	181	165.00	1536	240.00	429	352.00	2113
91.00	1196	166.00	1391	241.00	770	353.00	1487
92.00	1315	167.00	8735	242.00	1945	354.00	2220
93.00	7516	168.00	4223	243.00	1235	355.00	402
94.00	564	169.00	727	244.00	28152	365.00	9003
96.00	412	170.00	262	245.00	3642	366.00	1366
97.00	117	171.00	523	246.00	5057	370.00	89
98.00	5992	172.00	759	247.00	1049	371.00	542
99.00	4633	173.00	1033	248.00	209	372.00	3628
100.00	291	174.00	1877	249.00	985	373.00	944
101.00	2777	175.00	3612	252.00	100	383.00	1019
103.00	1003	176.00	1121	253.00	565	384.00	217
104.00	1782	177.00	1660	255.00	137088	390.00	511
105.00	1747	179.00	6881	256.00	21256	391.00	390
107.00	21712	180.00	4545	257.00	1665	392.00	213
108.00	3352	181.00	2179	258.00	7896	401.00	98

110.00	42488	182.00	404	259.00	1223	402.00	1325
111.00	6177	183.00	89	260.00	98	403.00	1990
112.00	788	184.00	550	261.00	186	404.00	728
113.00	249	185.00	3371	264.00	175	421.00	1810
116.00	498	186.00	27320	265.00	2997	422.00	1778
117.00	16616	187.00	7709	266.00	467	423.00	15062
118.00	1271	188.00	819	271.00	221	424.00	2910
120.00	223	189.00	1665	273.00	4663	425.00	248
122.00	1522	190.00	228	274.00	12615	441.00	39728
123.00	2399	191.00	792	275.00	74376	442.00	278208
124.00	1048	192.00	2268	276.00	10150	443.00	57144
125.00	1005	193.00	2447	277.00	5643	444.00	5230
127.00	83192	194.00	530	278.00	920	445.00	261
128.00	6570	195.00	103	283.00	595		
129.00	32424	196.00	6836	284.00	472		

Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041202.D

Date : 12-APR-2022 13:06

Client ID:

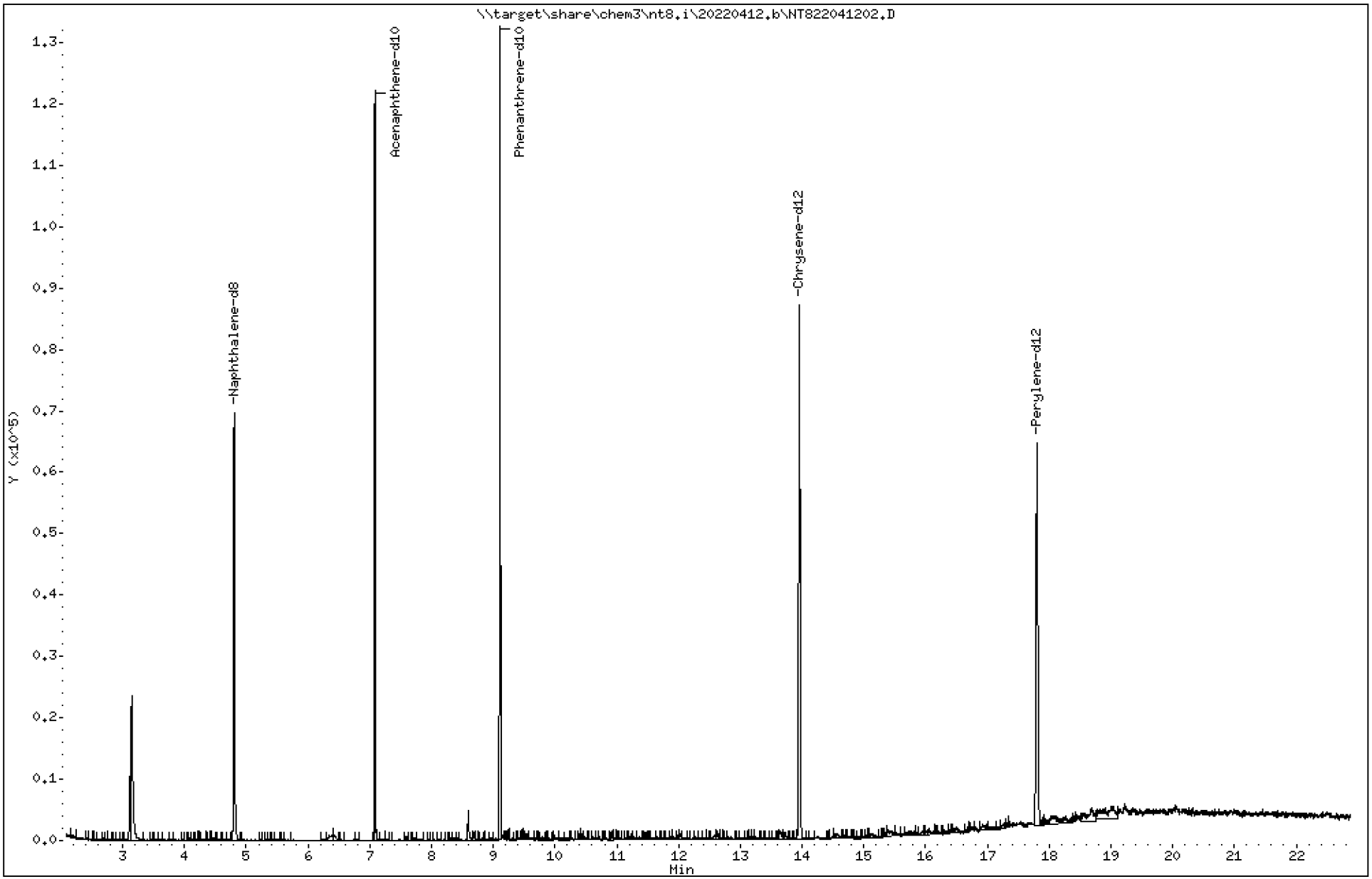
Instrument: nt8.i

Sample Info: ICB220411

Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20220412.b\NT822041202.D
Lab Smp Id: SKD0159-ICB1
Inj Date : 12-APR-2022 13:06
Operator : JZ Inst ID: nt8.i
Smp Info : ICB220411
Misc Info : 22-
Comment   : 1ul Injection
Method   : \\target\share\chem3\nt8.i\20220412.b\FSIMPNA220411.m
Meth Date : 26-Apr-2022 11:26 jianqing Quant Type: ISTD
Cal Date : 12-APR-2022 15:49 Cal File: NT822041208.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: FSIMPNAICL.sub
Target Version: 4.14
Processing Host: JIANQING-202105

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
*	1 Naphthalene-d8	136	4.803	4.799	(1.000)	59516	2.00000	
	2 Naphthalene	128	Compound Not Detected.					
$	3 2-Methylnaphthalene-d10	152	Compound Not Detected.					
	4 2-Methylnaphthalene	141	Compound Not Detected.					
	5 1-methylnaphthalene	141	Compound Not Detected.					
	6 2-Chloronaphthalene	162	Compound Not Detected.					
	7 Biphenyl	154	Compound Not Detected.					
	8 2,6-Dimethylnaphthalene	156	Compound Not Detected.					
	9 Acenaphthylene	152	Compound Not Detected.					
*	10 Acenaphthene-d10	164	7.082	7.076	(1.000)	35527	2.00000	
	11 Acenaphthene	153	Compound Not Detected.					
	12 Dibenzofuran	168	Compound Not Detected.					
	13 1,6,7-Trimethylnaphthalene	170	Compound Not Detected.					
	14 Fluorene	166	Compound Not Detected.					
	18 Dibenzothiophene	184	Compound Not Detected.					
*	15 Phenanthrene-d10	188	9.106	9.103	(1.000)	61889	2.00000	
	16 Phenanthrene	178	Compound Not Detected.					
	17 Anthracene	178	Compound Not Detected.					
	19 Carbazole	167	Compound Not Detected.					
	20 1-Methylphenanthrene	192	Compound Not Detected.					
	22 Fluoranthene	202	Compound Not Detected.					
$	21 Fluoranthene-d10	212	Compound Not Detected.					
	23 Pyrene	202	Compound Not Detected.					
	24 Benzo(a)anthracene	228	Compound Not Detected.					
*	25 Chrysene-d12	240	13.953	13.947	(1.000)	54184	2.00000	
	27 Chrysene	228	Compound Not Detected.					
	28 Benzo(b)fluoranthene	252	Compound Not Detected.					
	29 Benzo(k)fluoranthene	252	Compound Not Detected.					
	30 Benzo(j)fluoranthene	252	Compound Not Detected.					
	31 Total Benzofluoranthenes	252	Compound Not Detected.					
	34 Benzo(e)pyrene	252	Compound Not Detected.					
	32 Benzo(a)pyrene	252	Compound Not Detected.					
*	33 Perylene-d12	264	17.801	17.795	(1.000)	42531	2.00000	
	35 Perylene	252	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
$ 36 Dibenzo(a,h)anthracene-d14	292	Compound Not Detected.					
37 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
38 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
39 Benzo(g,h,i)perylene	276	Compound Not Detected.					

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt8.i
Lab File ID: NT822041202.D
Lab Smp Id: SKD0159-ICB1
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: \\target\share\chem3\nt8.i\20220412.b\FSIMPNA220411.m
Misc Info: 22-

Calibration Date: 12-APR-2022
Calibration Time: 14:55
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	56136	28068	112272	59516	6.02
10 Acenaphthene-d10	32604	16302	65208	35527	8.97
15 Phenanthrene-d10	58288	29144	116576	61889	6.18
25 Chrysene-d12	52801	26401	105602	54184	2.62
33 Perylene-d12	42745	21373	85490	42531	-0.50

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	4.80	4.30	5.30	4.80	0.07
10 Acenaphthene-d10	7.08	6.58	7.58	7.08	0.09
15 Phenanthrene-d10	9.10	8.60	9.60	9.11	0.04
25 Chrysene-d12	13.95	13.45	14.45	13.95	0.05
33 Perylene-d12	17.80	17.30	18.30	17.80	0.04

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

REVIEW SUMMARY FOR FILE - NT822041202.D

Lab ID: SKD0159-ICB1
nt8.i, 20220412.b\FSIMPNA220411.m,   12-APR-2022 13:06

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

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

No RRT check performed

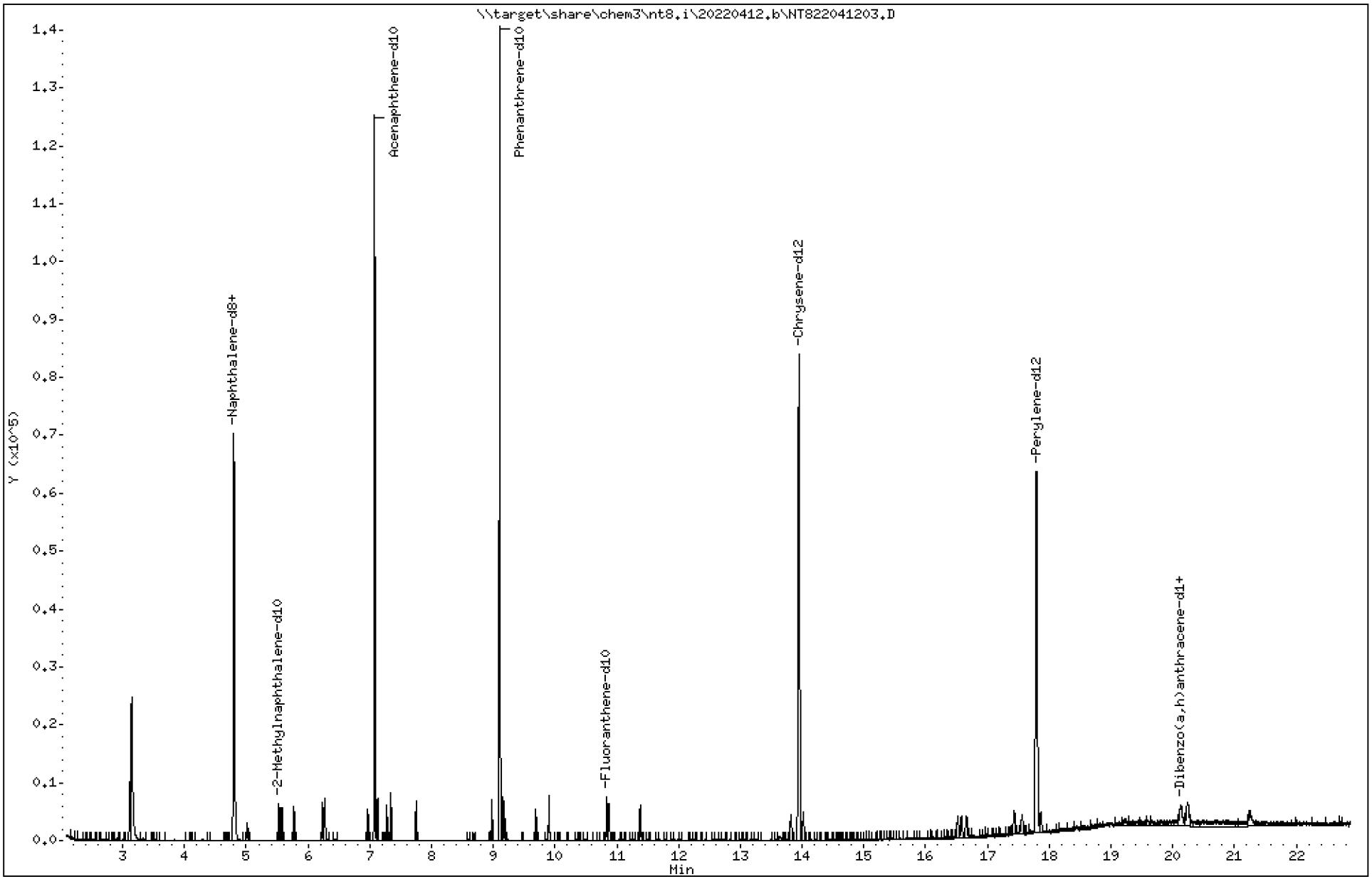
On Column LOD for nt8.i, 20220412.b\FSIMPNA220411.m, FSIMPNAICL.sub = 0.0000

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

Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041203.D
Date : 12-APR-2022 13:33
Client ID:
Sample Info: IC01220411,

Instrument: nt8.i
Operator: JZ
Column diameter: 0.25

Column phase: Rxi-17sil



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20220412.b\NT822041203.D
Lab Smp Id: SKD0159-CAL1
Inj Date : 12-APR-2022 13:33
Operator : JZ Inst ID: nt8.i
Smp Info : IC01220411,
Misc Info : 22-
Comment   : 1ul Injection
Method   : \\target\share\chem3\nt8.i\20220412.b\FSIMPNA220411.m
Meth Date : 26-Apr-2022 11:18 jianqing Quant Type: ISTD
Cal Date : 12-APR-2022 15:49 Cal File: NT822041208.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: FSIMPNAICL.sub
Target Version: 4.14
Processing Host: JIANQING-202105

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
*	1 Naphthalene-d8	136	4.799	4.799	(1.000)	59329	2.00000	
	2 Naphthalene	128	4.828	4.828	(1.006)	3390	0.10000	0.1128
$	3 2-Methylnaphthalene-d10	152	5.526	5.526	(1.152)	2501	0.10000	0.1118
	4 2-Methylnaphthalene	141	5.574	5.574	(1.161)	1902	0.10000	0.1112
	5 1-methylnaphthalene	141	5.773	5.770	(1.203)	1860	0.10000	0.1112
	6 2-Chloronaphthalene	162	6.260	6.260	(1.304)	2054	0.10000	0.1144
	7 Biphenyl	154	6.232	6.232	(0.881)	2906	0.10000	0.1122
	8 2,6-Dimethylnaphthalene	156	6.276	6.273	(0.887)	1966	0.10000	0.1088
	9 Acenaphthylene	152	6.965	6.965	(0.984)	3352	0.10000	0.1091
*	10 Acenaphthene-d10	164	7.076	7.076	(1.000)	35567	2.00000	
	11 Acenaphthene	153	7.126	7.126	(1.007)	2338	0.10000	0.1147
	12 Dibenzofuran	168	7.275	7.275	(1.028)	3240	0.10000	0.1133
	13 1,6,7-Trimethylnaphthalene	170	7.341	7.341	(1.038)	2082	0.10000	0.1133
	14 Fluorene	166	7.749	7.749	(1.095)	2569	0.10000	0.1116
	18 Dibenzothiophene	184	8.979	8.976	(0.986)	3618	0.10000	0.1139
*	15 Phenanthrene-d10	188	9.103	9.103	(1.000)	62049	2.00000	
	16 Phenanthrene	178	9.137	9.137	(1.004)	3768	0.10000	0.1145
	17 Anthracene	178	9.179	9.179	(1.008)	3619	0.10000	0.1148
	19 Carbazole	167	9.688	9.688	(1.064)	3216	0.10000	0.1105
	20 1-Methylphenanthrene	192	9.899	9.903	(1.088)	2826	0.10000	0.1118
	22 Fluoranthene	202	10.873	10.877	(1.195)	4039	0.10000	0.1121
$	21 Fluoranthene-d10	212	10.839	10.842	(1.191)	4585	0.10000	0.1117
	23 Pyrene	202	11.376	11.379	(0.816)	4173	0.10000	0.1137(M)
	24 Benzo(a)anthracene	228	13.817	13.820	(0.991)	3644	0.10000	0.1062
*	25 Chrysene-d12	240	13.947	13.947	(1.000)	54285	2.00000	
	27 Chrysene	228	14.019	14.020	(1.005)	3624	0.10000	0.1105
	28 Benzo(b)fluoranthene	252	16.517	16.524	(0.928)	3381	0.10000	0.1066
	29 Benzo(k)fluoranthene	252	16.584	16.584	(0.932)	3218	0.10000	0.1094
	30 Benzo(j)fluoranthene	252	16.657	16.663	(0.936)	3010	0.10000	0.1114
	31 Total Benzofluoranthenes	252	16.517	16.524	(0.928)	9454	0.30000	0.3232(M)
	34 Benzo(e)pyrene	252	17.431	17.434	(0.980)	3220	0.10000	0.1086
	32 Benzo(a)pyrene	252	17.561	17.561	(0.987)	2788	0.10000	0.1065
*	33 Perylene-d12	264	17.792	17.795	(1.000)	44666	2.00000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	35 Perylene	252	17.864	17.868	(1.004)	2842	0.10000	0.1084
$	36 Dibenzo(a,h)anthracene-d14	292	20.132	20.135	(1.132)	3468	0.10000	0.1807(M)
	37 Indeno(1,2,3-cd)pyrene	276	20.245	20.245	(1.138)	2463	0.10000	0.09593
	38 Dibenzo(a,h)anthracene	278	20.242	20.242	(1.138)	2028	0.10000	0.09156
	39 Benzo(g,h,i)perylene	276	21.257	21.257	(1.195)	2392	0.10000	0.1002

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt8.i
Lab File ID: NT822041203.D
Lab Smp Id: SKD0159-CAL1
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: \\target\share\chem3\nt8.i\20220412.b\FSIMPNA220411.m
Misc Info: 22-

Calibration Date: 12-APR-2022
Calibration Time: 14:55
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	56136	28068	112272	59329	5.69
10 Acenaphthene-d10	32604	16302	65208	35567	9.09
15 Phenanthrene-d10	58288	29144	116576	62049	6.45
25 Chrysene-d12	52801	26401	105602	54285	2.81
33 Perylene-d12	42745	21373	85490	44666	4.49

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	4.80	4.30	5.30	4.80	-0.00
10 Acenaphthene-d10	7.08	6.58	7.58	7.08	-0.00
15 Phenanthrene-d10	9.10	8.60	9.60	9.10	-0.00
25 Chrysene-d12	13.95	13.45	14.45	13.95	-0.00
33 Perylene-d12	17.80	17.30	18.30	17.79	-0.02

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

REVIEW SUMMARY FOR FILE - NT822041203.D

Lab ID: SKD0159-CAL1
nt8.i, 20220412.b\FSIMPNA220411.m,   12-APR-2022 13:33

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

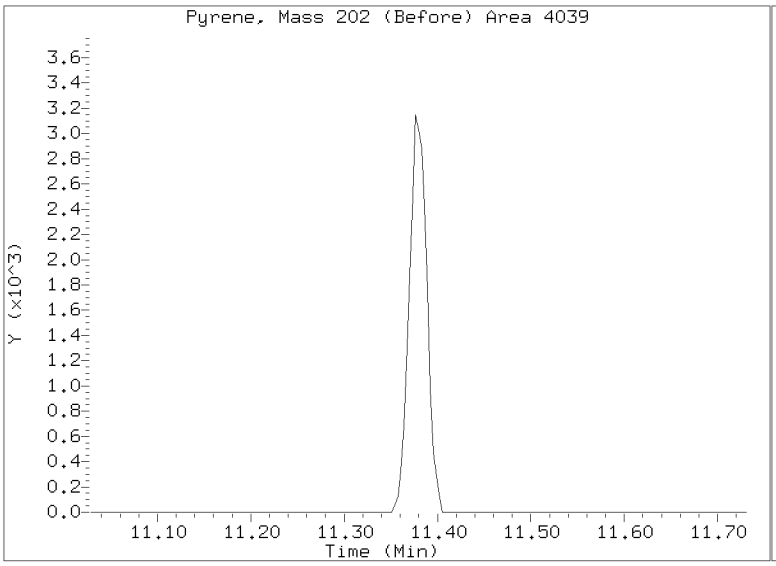
No RRT check performed

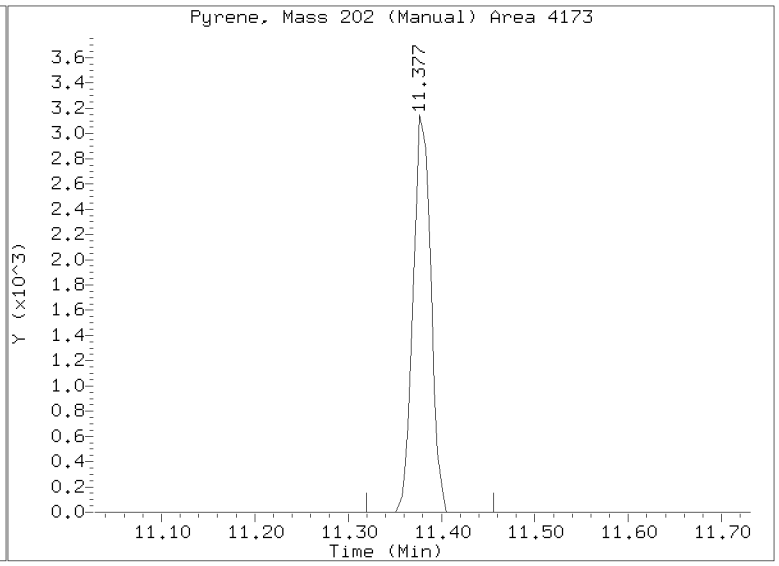
On Column LOD for nt8.i, 20220412.b\FSIMPNA220411.m, FSIMPNAICL.sub = 0.0000

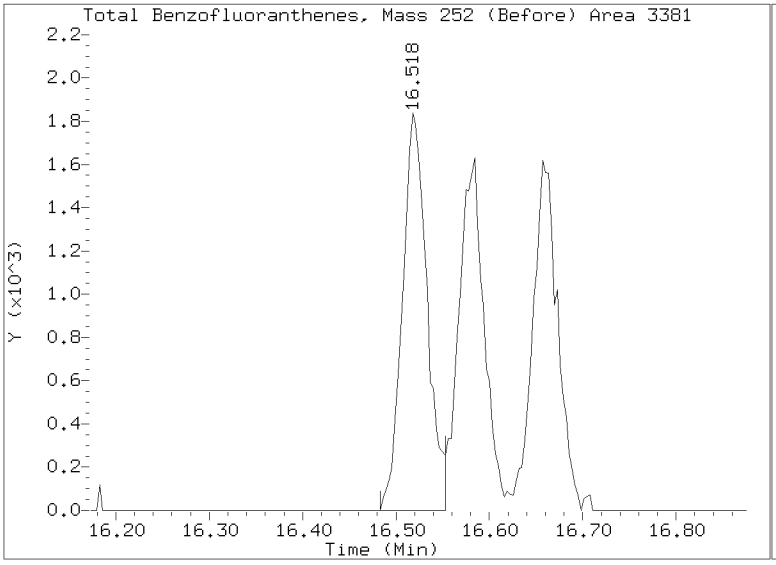
* Only compounds listed in the work order have been verified by the analyst *

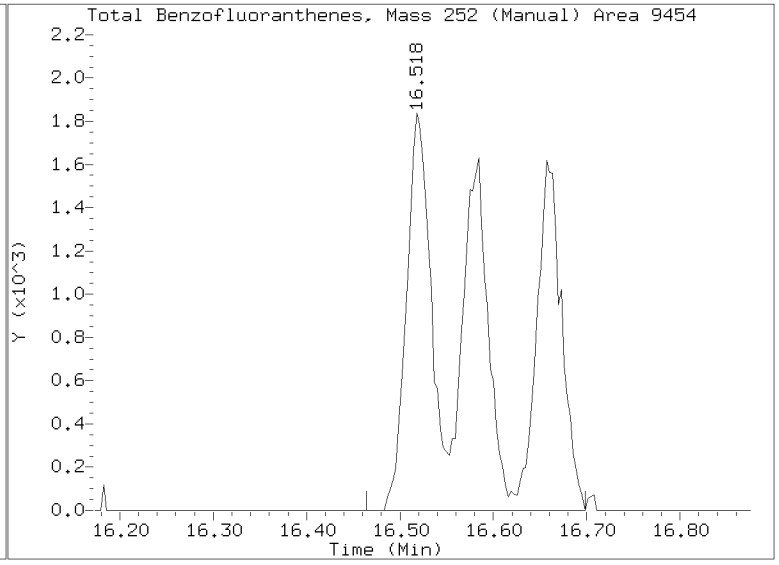
Quant Ion Manual Peak Adjustment Report

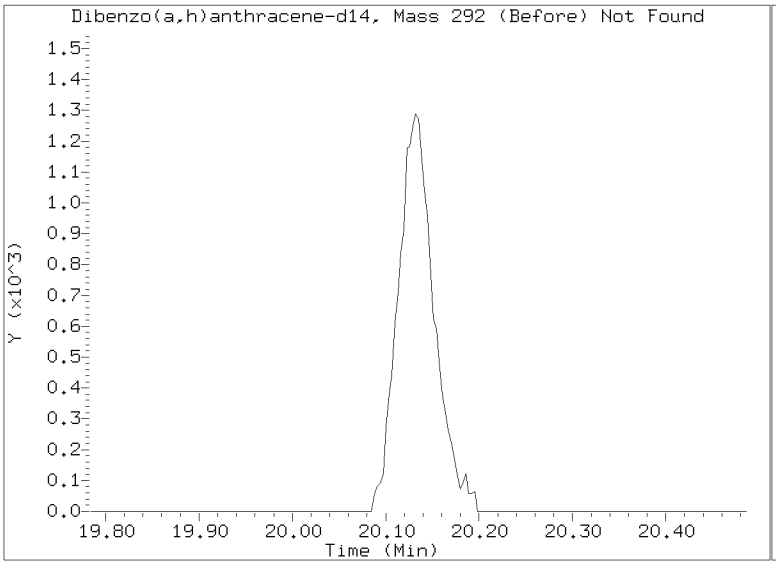
Datafile: //target/share/chem3/nt8.i/20220412.b/NT822041203.D
Injection Date: 12-APR-2022 13:33
Lab ID:SKD0159-CAL1 Client ID:
Report Date: 04/26/2022 11:21

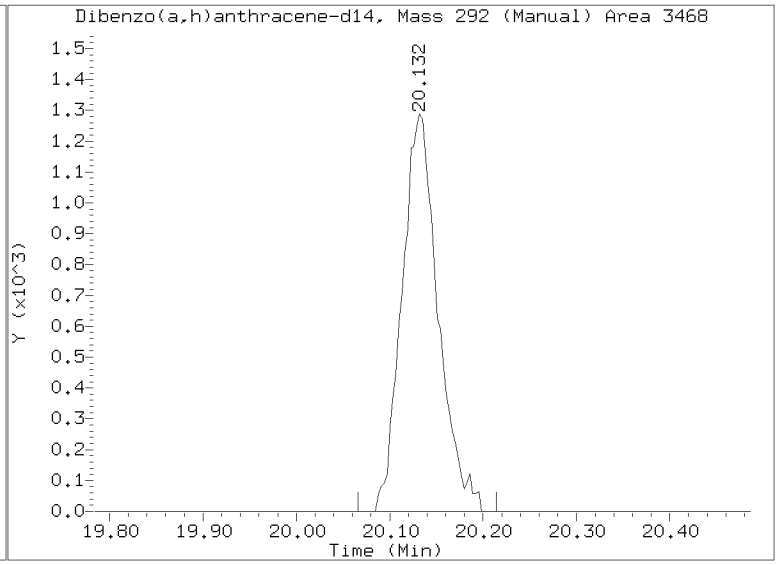










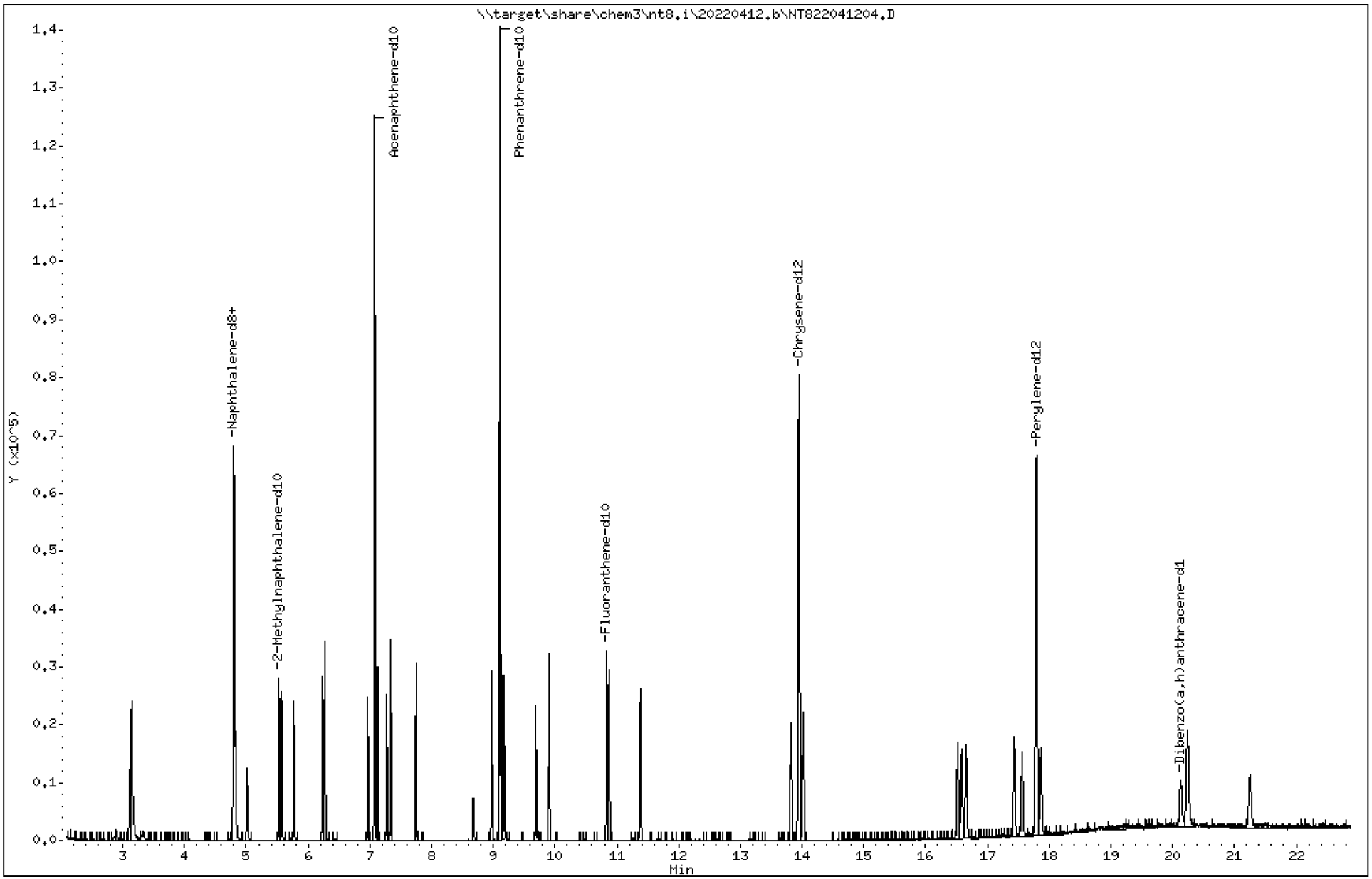


Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041204.D
Date : 12-APR-2022 14:00
Client ID:
Sample Info: IC05220411,

Column phase: Rxi-17sil

Instrument: nt8.i

Operator: JZ
Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20220412.b\NT822041204.D
Lab Smp Id: SKD0159-CAL2
Inj Date : 12-APR-2022 14:00
Operator : JZ Inst ID: nt8.i
Smp Info : IC05220411,
Misc Info : 22-
Comment   : 1ul Injection
Method   : \\target\share\chem3\nt8.i\20220412.b\FSIMPNA220411.m
Meth Date : 26-Apr-2022 11:18 jianqing Quant Type: ISTD
Cal Date : 12-APR-2022 15:49 Cal File: NT822041208.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: FSIMPNAICL.sub
Target Version: 4.14
Processing Host: JIANQING-202105

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
*	1	Naphthalene-d8	136	4.799	4.799	(1.000)	60074	2.00000	
	2	Naphthalene	128	4.828	4.828	(1.006)	14319	0.50000	0.4704
$	3	2-Methylnaphthalene-d10	152	5.527	5.526	(1.152)	10732	0.50000	0.4737
	4	2-Methylnaphthalene	141	5.574	5.574	(1.161)	8329	0.50000	0.4809
	5	1-methylnaphthalene	141	5.770	5.770	(1.202)	8256	0.50000	0.4874
	6	2-Chloronaphthalene	162	6.260	6.260	(1.304)	8834	0.50000	0.4861
	7	Biphenyl	154	6.232	6.232	(0.881)	11990	0.50000	0.4546
	8	2,6-Dimethylnaphthalene	156	6.273	6.273	(0.887)	8584	0.50000	0.4668
	9	Acenaphthylene	152	6.965	6.965	(0.984)	13808	0.50000	0.4415
*	10	Acenaphthene-d10	164	7.076	7.076	(1.000)	36200	2.00000	
	11	Acenaphthene	153	7.123	7.126	(1.007)	9393	0.50000	0.4526
	12	Dibenzofuran	168	7.275	7.275	(1.028)	13453	0.50000	0.4621
	13	1,6,7-Trimethylnaphthalene	170	7.342	7.341	(1.038)	8432	0.50000	0.4509
	14	Fluorene	166	7.749	7.749	(1.095)	10414	0.50000	0.4446
	18	Dibenzothiophene	184	8.976	8.976	(0.986)	14454	0.50000	0.4494
*	15	Phenanthrene-d10	188	9.103	9.103	(1.000)	62856	2.00000	
	16	Phenanthrene	178	9.138	9.137	(1.004)	15352	0.50000	0.4604
	17	Anthracene	178	9.179	9.179	(1.008)	14924	0.50000	0.4673
	19	Carbazole	167	9.688	9.688	(1.064)	13103	0.50000	0.4444
	20	1-Methylphenanthrene	192	9.900	9.903	(1.088)	11385	0.50000	0.4447
	22	Fluoranthene	202	10.873	10.877	(1.195)	16817	0.50000	0.4609
$	21	Fluoranthene-d10	212	10.839	10.842	(1.191)	18399	0.50000	0.4427
	23	Pyrene	202	11.379	11.379	(0.816)	16663	0.50000	0.4453(M)
	24	Benzo(a)anthracene	228	13.820	13.820	(0.991)	15135	0.50000	0.4325
*	25	Chrysene-d12	240	13.947	13.947	(1.000)	55368	2.00000	
	27	Chrysene	228	14.020	14.020	(1.005)	15046	0.50000	0.4500
	28	Benzo(b)fluoranthene	252	16.518	16.524	(0.928)	13447	0.50000	0.4101
	29	Benzo(k)fluoranthene	252	16.581	16.584	(0.932)	13049	0.50000	0.4290
	30	Benzo(j)fluoranthene	252	16.657	16.663	(0.936)	12160	0.50000	0.4352
	31	Total Benzofluoranthenes	252	16.518	16.524	(0.928)	38402	1.50000	1.270(M)
	34	Benzo(e)pyrene	252	17.435	17.434	(0.980)	13151	0.50000	0.4291
	32	Benzo(a)pyrene	252	17.564	17.561	(0.987)	12014	0.50000	0.4439
*	33	Perylene-d12	264	17.795	17.795	(1.000)	46179	2.00000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	35 Perylene	252	17.868	17.868	(1.004)	11997	0.50000	0.4427
$	36 Dibenzo(a,h)anthracene-d14	292	20.135	20.135	(1.131)	9248	0.50000	0.4662(M)
	37 Indeno(1,2,3-cd)pyrene	276	20.246	20.245	(1.138)	11123	0.50000	0.4190
	38 Dibenzo(a,h)anthracene	278	20.233	20.242	(1.137)	9411	0.50000	0.4110
	39 Benzo(g,h,i)perylene	276	21.254	21.257	(1.194)	10503	0.50000	0.4253(M)

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt8.i
Lab File ID: NT822041204.D
Lab Smp Id: SKD0159-CAL2
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: \\target\share\chem3\nt8.i\20220412.b\FSIMPNA220411.m
Misc Info: 22-

Calibration Date: 12-APR-2022
Calibration Time: 14:55
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	56136	28068	112272	60074	7.02
10 Acenaphthene-d10	32604	16302	65208	36200	11.03
15 Phenanthrene-d10	58288	29144	116576	62856	7.84
25 Chrysene-d12	52801	26401	105602	55368	4.86
33 Perylene-d12	42745	21373	85490	46179	8.03

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	4.80	4.30	5.30	4.80	0.00
10 Acenaphthene-d10	7.08	6.58	7.58	7.08	0.00
15 Phenanthrene-d10	9.10	8.60	9.60	9.10	0.00
25 Chrysene-d12	13.95	13.45	14.45	13.95	0.00
33 Perylene-d12	17.80	17.30	18.30	17.80	0.00

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

REVIEW SUMMARY FOR FILE - NT822041204.D

Lab ID: SKD0159-CAL2
nt8.i, 20220412.b\FSIMPNA220411.m,   12-APR-2022 14:00

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

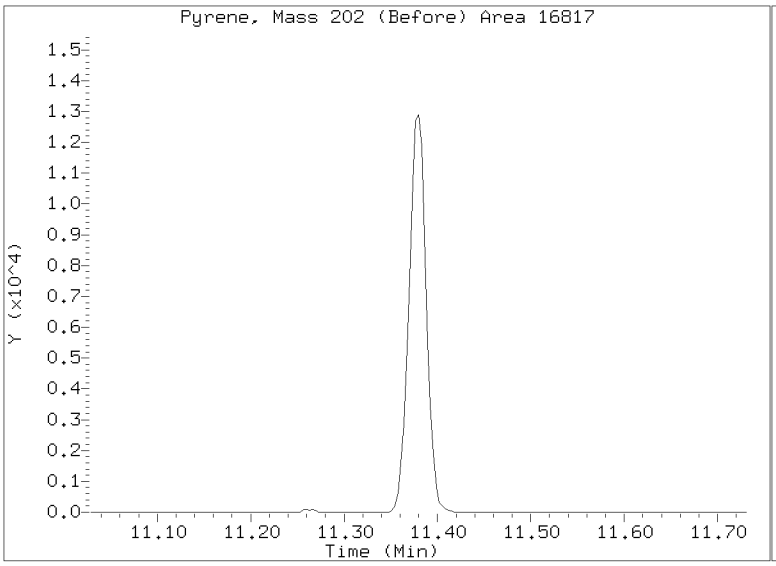
No RRT check performed

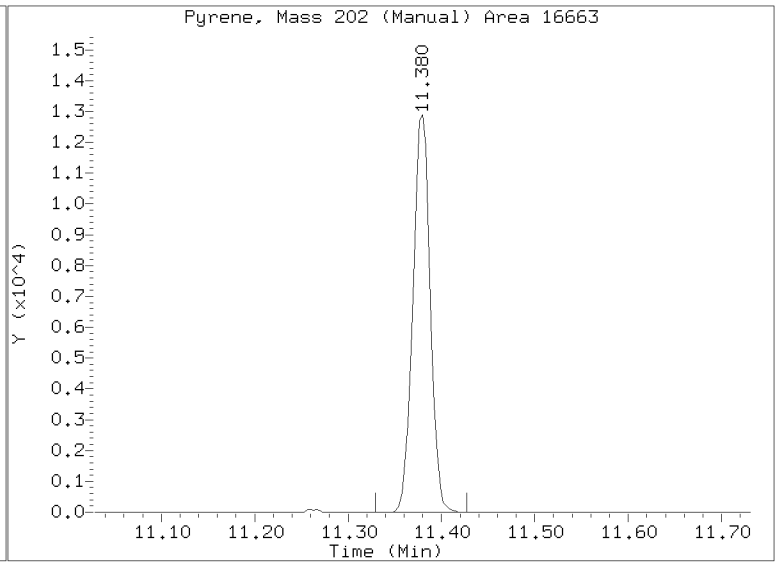
On Column LOD for nt8.i, 20220412.b\FSIMPNA220411.m, FSIMPNAICL.sub = 0.0000

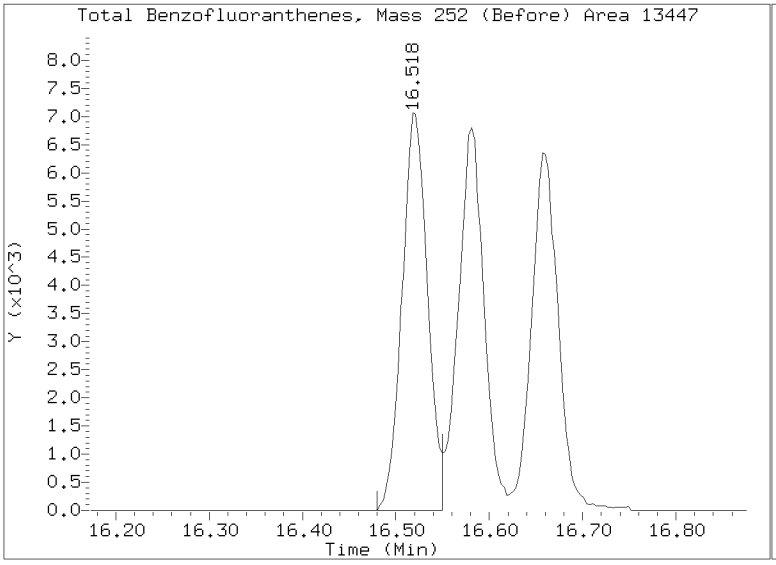
* Only compounds listed in the work order have been verified by the analyst *

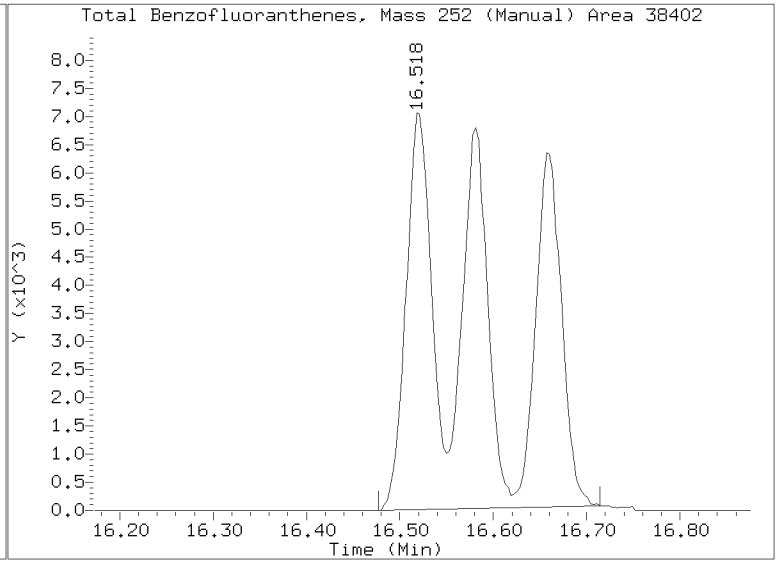
Quant Ion Manual Peak Adjustment Report

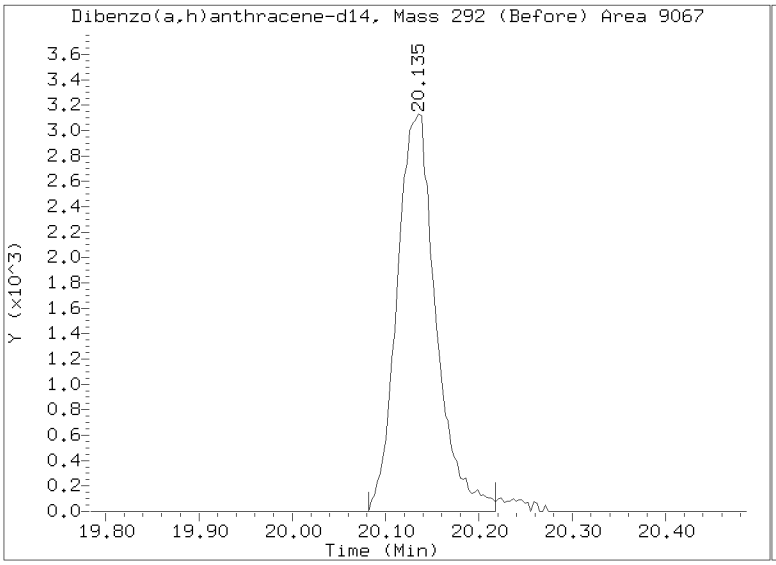
Datafile: //target/share/chem3/nt8.i/20220412.b/NT822041204.D
Injection Date: 12-APR-2022 14:00
Lab ID:SKD0159-CAL2 Client ID:
Report Date: 04/26/2022 11:21

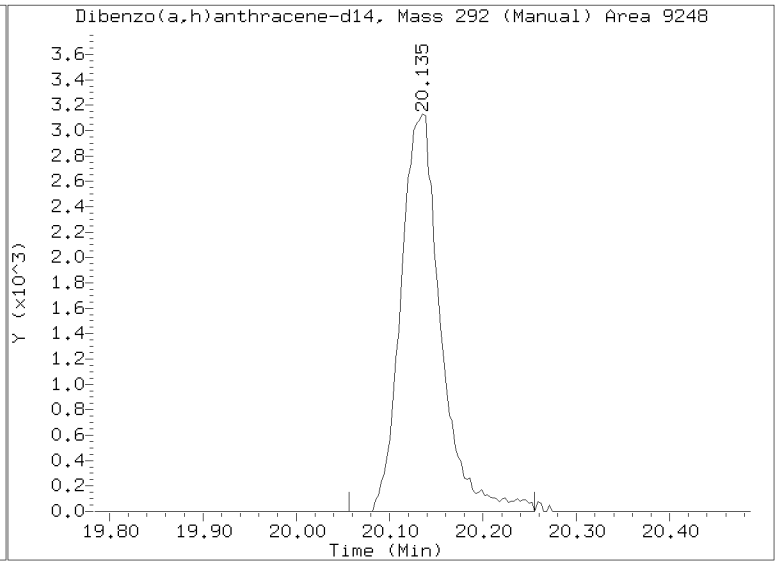






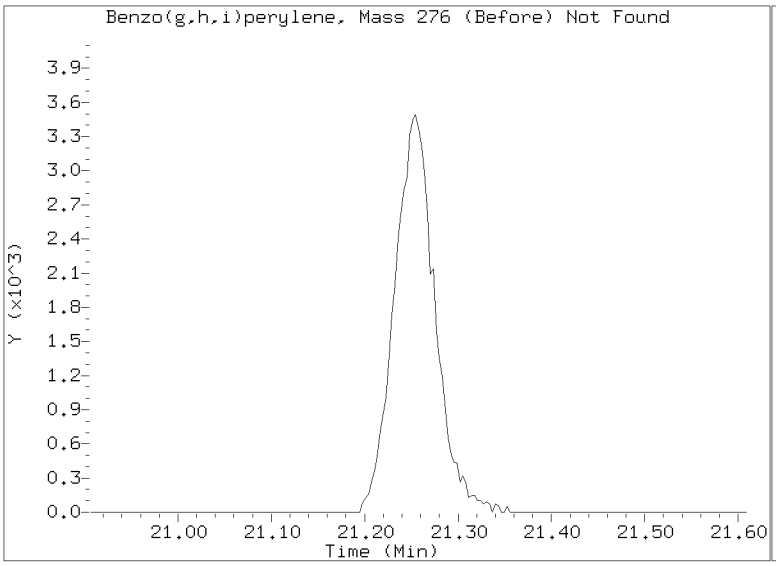


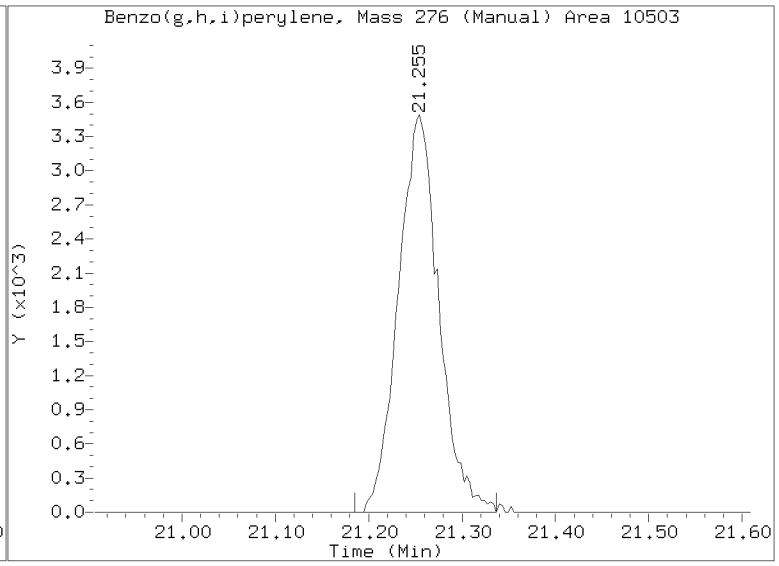




Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20220412.b/NT822041204.D
Injection Date: 12-APR-2022 14:00
Lab ID:SKD0159-CAL2 Client ID:
Report Date: 04/26/2022 11:21

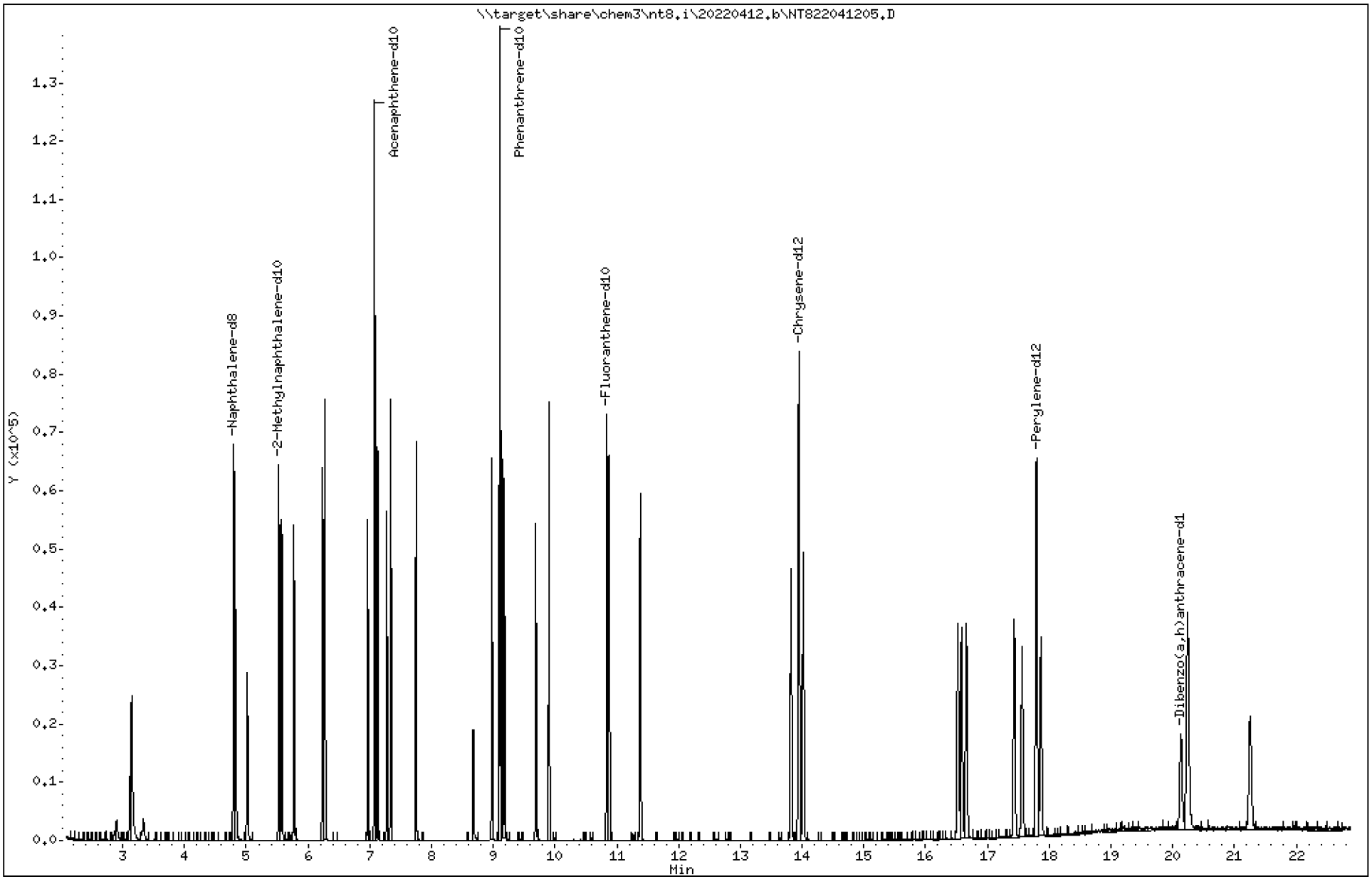




Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041205.D
Date : 12-APR-2022 14:27
Client ID:
Sample Info: IC1220411,

Instrument: nt8.i
Operator: JZ
Column diameter: 0.25

Column phase: Rxi-17sil



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20220412.b\NT822041205.D
Lab Smp Id: SKD0159-CAL3
Inj Date : 12-APR-2022 14:27
Operator : JZ Inst ID: nt8.i
Smp Info : IC1220411,
Misc Info : 22-
Comment   : 1ul Injection
Method   : \\target\share\chem3\nt8.i\20220412.b\FSIMPNA220411.m
Meth Date : 26-Apr-2022 11:18 jianqing Quant Type: ISTD
Cal Date : 12-APR-2022 15:49 Cal File: NT822041208.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: FSIMPNAICL.sub
Target Version: 4.14
Processing Host: JIANQING-202105

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
*	1 Naphthalene-d8	136	4.799	4.799	(1.000)	60316	2.00000	
	2 Naphthalene	128	4.828	4.828	(1.006)	30843	1.00000	1.009
$	3 2-Methylnaphthalene-d10	152	5.527	5.526	(1.152)	22966	1.00000	1.010
	4 2-Methylnaphthalene	141	5.574	5.574	(1.161)	18040	1.00000	1.037
	5 1-methylnaphthalene	141	5.770	5.770	(1.202)	17566	1.00000	1.033
	6 2-Chloronaphthalene	162	6.260	6.260	(1.304)	18903	1.00000	1.036
	7 Biphenyl	154	6.232	6.232	(0.881)	25769	1.00000	0.9929
	8 2,6-Dimethylnaphthalene	156	6.273	6.273	(0.887)	18747	1.00000	1.036
	9 Acenaphthylene	152	6.965	6.965	(0.984)	30189	1.00000	0.9808
*	10 Acenaphthene-d10	164	7.076	7.076	(1.000)	35623	2.00000	
	11 Acenaphthene	153	7.126	7.126	(1.007)	20428	1.00000	1.000
	12 Dibenzofuran	168	7.275	7.275	(1.028)	29156	1.00000	1.018
	13 1,6,7-Trimethylnaphthalene	170	7.342	7.341	(1.038)	18709	1.00000	1.017
	14 Fluorene	166	7.749	7.749	(1.095)	22993	1.00000	0.9975
	18 Dibenzothiophene	184	8.979	8.976	(0.986)	31467	1.00000	0.9807
*	15 Phenanthrene-d10	188	9.103	9.103	(1.000)	62701	2.00000	
	16 Phenanthrene	178	9.138	9.137	(1.004)	33080	1.00000	0.9945
	17 Anthracene	178	9.175	9.179	(1.008)	32042	1.00000	1.006
	19 Carbazole	167	9.688	9.688	(1.064)	29030	1.00000	0.9871
	20 1-Methylphenanthrene	192	9.903	9.903	(1.088)	25294	1.00000	0.9904
	22 Fluoranthene	202	10.877	10.877	(1.195)	37132	1.00000	1.020
$	21 Fluoranthene-d10	212	10.842	10.842	(1.191)	40458	1.00000	0.9758
	23 Pyrene	202	11.379	11.379	(0.816)	37516	1.00000	0.9928(M)
	24 Benzo(a)anthracene	228	13.820	13.820	(0.991)	33397	1.00000	0.9450
*	25 Chrysene-d12	240	13.947	13.947	(1.000)	55911	2.00000	
	27 Chrysene	228	14.020	14.020	(1.005)	33892	1.00000	1.004
	28 Benzo(b)fluoranthene	252	16.518	16.524	(0.928)	30218	1.00000	0.9154
	29 Benzo(k)fluoranthene	252	16.581	16.584	(0.932)	29826	1.00000	0.9739
	30 Benzo(j)fluoranthene	252	16.660	16.663	(0.936)	27630	1.00000	0.9821
	31 Total Benzofluoranthenes	252	16.581	16.524	(0.932)	87619	3.00000	2.878(M)
	34 Benzo(e)pyrene	252	17.431	17.434	(0.980)	29480	1.00000	0.9553
	32 Benzo(a)pyrene	252	17.561	17.561	(0.987)	26682	1.00000	0.9791
*	33 Perylene-d12	264	17.795	17.795	(1.000)	46496	2.00000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	35 Perylene	252	17.868	17.868	(1.004)	27101	1.00000	0.9931
$	36 Dibenzo(a,h)anthracene-d14	292	20.135	20.135	(1.131)	18292	1.00000	0.9158
	37 Indeno(1,2,3-cd)pyrene	276	20.242	20.245	(1.138)	25303	1.00000	0.9467
	38 Dibenzo(a,h)anthracene	278	20.236	20.242	(1.137)	21617	1.00000	0.9376
	39 Benzo(g,h,i)perylene	276	21.257	21.257	(1.195)	23186	1.00000	0.9326

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt8.i
Lab File ID: NT822041205.D
Lab Smp Id: SKD0159-CAL3
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: \\target\share\chem3\nt8.i\20220412.b\FSIMPNA220411.m
Misc Info: 22-

Calibration Date: 12-APR-2022
Calibration Time: 14:55
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	56136	28068	112272	60316	7.45
10 Acenaphthene-d10	32604	16302	65208	35623	9.26
15 Phenanthrene-d10	58288	29144	116576	62701	7.57
25 Chrysene-d12	52801	26401	105602	55911	5.89
33 Perylene-d12	42745	21373	85490	46496	8.78

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	4.80	4.30	5.30	4.80	0.00
10 Acenaphthene-d10	7.08	6.58	7.58	7.08	0.00
15 Phenanthrene-d10	9.10	8.60	9.60	9.10	0.00
25 Chrysene-d12	13.95	13.45	14.45	13.95	0.00
33 Perylene-d12	17.80	17.30	18.30	17.80	0.00

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

REVIEW SUMMARY FOR FILE - NT822041205.D

Lab ID: SKD0159-CAL3
nt8.i, 20220412.b\FSIMPNA220411.m,   12-APR-2022 14:27

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

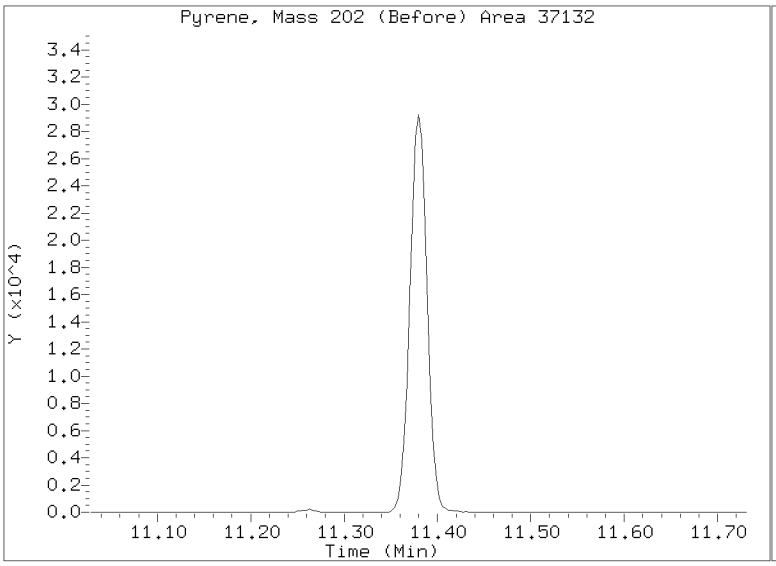
No RRT check performed

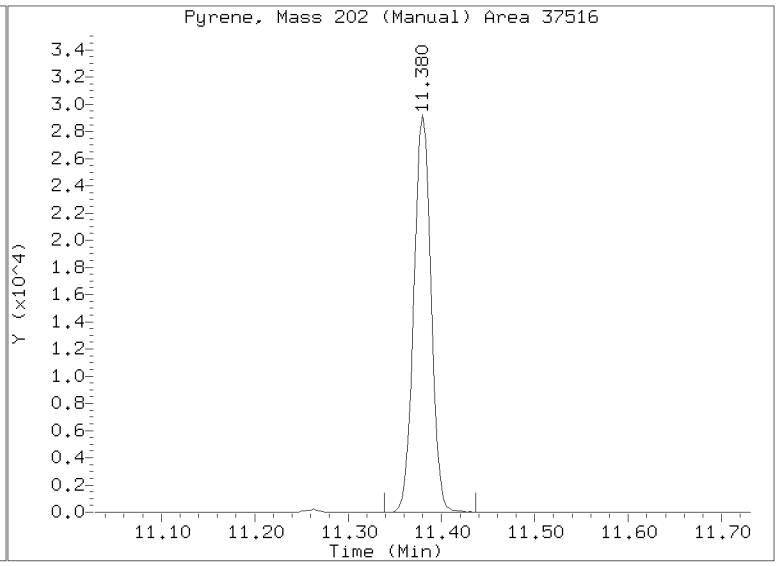
On Column LOD for nt8.i, 20220412.b\FSIMPNA220411.m, FSIMPNAICL.sub = 0.0000

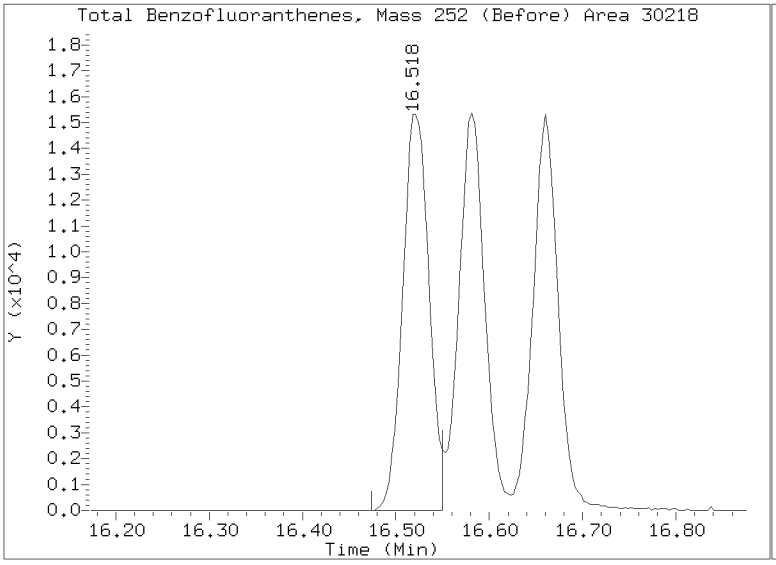
* Only compounds listed in the work order have been verified by the analyst *

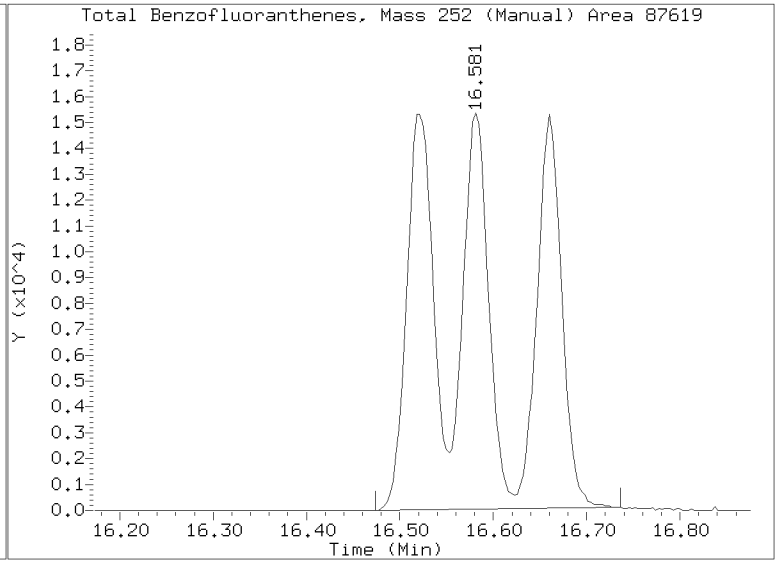
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20220412.b/NT822041205.D
Injection Date: 12-APR-2022 14:27
Lab ID:SKD0159-CAL3 Client ID:
Report Date: 04/26/2022 11:21









Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041206.D

Date : 12-APR-2022 14:55

Client ID:

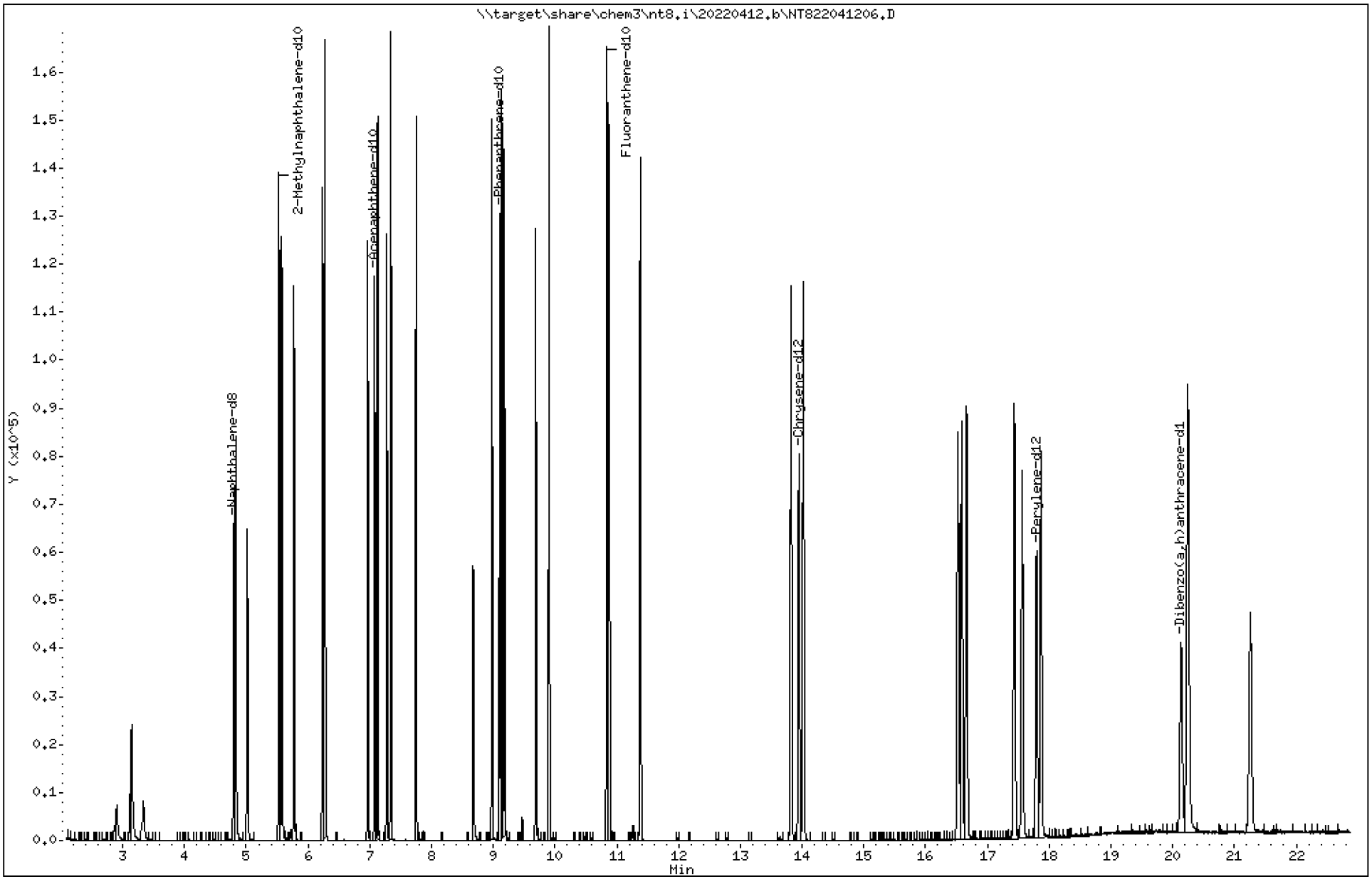
Instrument: nt8.i

Sample Info: IC25220411,

Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20220412.b\NT822041206.D
Lab Smp Id: SKD0159-CAL4
Inj Date : 12-APR-2022 14:55
Operator : JZ Inst ID: nt8.i
Smp Info : IC25220411,
Misc Info : 22-
Comment   : 1ul Injection
Method   : \\target\share\chem3\nt8.i\20220412.b\FSIMPNA220411.m
Meth Date : 26-Apr-2022 11:18 jianqing Quant Type: ISTD
Cal Date : 12-APR-2022 15:49 Cal File: NT822041208.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: FSIMPNAICL.sub
Target Version: 4.14
Processing Host: JIANQING-202105

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
*	1	Naphthalene-d8	136	4.799	4.799	(1.000)	56136	2.00000	
	2	Naphthalene	128	4.828	4.828	(1.006)	69133	2.50000	2.430
$	3	2-Methylnaphthalene-d10	152	5.526	5.526	(1.152)	51491	2.50000	2.432
	4	2-Methylnaphthalene	141	5.574	5.574	(1.161)	39998	2.50000	2.471
	5	1-methylnaphthalene	141	5.770	5.770	(1.202)	38995	2.50000	2.464
	6	2-Chloronaphthalene	162	6.260	6.260	(1.304)	41805	2.50000	2.462
	7	Biphenyl	154	6.232	6.232	(0.881)	57491	2.50000	2.420
	8	2,6-Dimethylnaphthalene	156	6.273	6.273	(0.887)	41367	2.50000	2.498
	9	Acenaphthylene	152	6.965	6.965	(0.984)	69193	2.50000	2.456
*	10	Acenaphthene-d10	164	7.076	7.076	(1.000)	32604	2.00000	
	11	Acenaphthene	153	7.126	7.126	(1.007)	45260	2.50000	2.421
	12	Dibenzofuran	168	7.275	7.275	(1.028)	64100	2.50000	2.444
	13	1,6,7-Trimethylnaphthalene	170	7.341	7.341	(1.038)	41823	2.50000	2.483
	14	Fluorene	166	7.749	7.749	(1.095)	51508	2.50000	2.442
	18	Dibenzothiophene	184	8.976	8.976	(0.986)	71438	2.50000	2.395
*	15	Phenanthrene-d10	188	9.103	9.103	(1.000)	58288	2.00000	
	16	Phenanthrene	178	9.137	9.137	(1.004)	74492	2.50000	2.409
	17	Anthracene	178	9.179	9.179	(1.008)	72962	2.50000	2.464
	19	Carbazole	167	9.688	9.688	(1.064)	67119	2.50000	2.455
	20	1-Methylphenanthrene	192	9.903	9.903	(1.088)	57972	2.50000	2.442
	22	Fluoranthene	202	10.877	10.877	(1.195)	83252	2.50000	2.461
$	21	Fluoranthene-d10	212	10.842	10.842	(1.191)	92886	2.50000	2.410
	23	Pyrene	202	11.379	11.379	(0.816)	86908	2.50000	2.435(M)
	24	Benzo(a)anthracene	228	13.820	13.820	(0.991)	80266	2.50000	2.405
*	25	Chrysene-d12	240	13.947	13.947	(1.000)	52801	2.00000	
	27	Chrysene	228	14.020	14.020	(1.005)	78029	2.50000	2.447
	28	Benzo(b)fluoranthene	252	16.524	16.524	(0.929)	72066	2.50000	2.375
	29	Benzo(k)fluoranthene	252	16.584	16.584	(0.932)	68036	2.50000	2.417
	30	Benzo(j)fluoranthene	252	16.663	16.663	(0.936)	63375	2.50000	2.450
	31	Total Benzofluoranthenes	252	16.524	16.524	(0.929)	203692	7.50000	7.277(M)
	34	Benzo(e)pyrene	252	17.434	17.434	(0.980)	68581	2.50000	2.417
	32	Benzo(a)pyrene	252	17.561	17.561	(0.987)	60851	2.50000	2.429
*	33	Perylene-d12	264	17.795	17.795	(1.000)	42745	2.00000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	35 Perylene	252	17.868	17.868	(1.004)	60884	2.50000	2.427
$	36 Dibenzo(a,h)anthracene-d14	292	20.135	20.135	(1.131)	42348	2.50000	2.306
	37 Indeno(1,2,3-cd)pyrene	276	20.245	20.245	(1.138)	60993	2.50000	2.482
	38 Dibenzo(a,h)anthracene	278	20.242	20.242	(1.138)	52005	2.50000	2.453
	39 Benzo(g,h,i)perylene	276	21.257	21.257	(1.195)	55293	2.50000	2.419

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt8.i
Lab File ID: NT822041206.D
Lab Smp Id: SKD0159-CAL4
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: \\target\share\chem3\nt8.i\20220412.b\FSIMPNA220411.m
Misc Info: 22-

Calibration Date: 12-APR-2022
Calibration Time: 14:55
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	56136	28068	112272	56136	0.00
10 Acenaphthene-d10	32604	16302	65208	32604	0.00
15 Phenanthrene-d10	58288	29144	116576	58288	0.00
25 Chrysene-d12	52801	26401	105602	52801	0.00
33 Perylene-d12	42745	21373	85490	42745	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	4.80	4.30	5.30	4.80	0.00
10 Acenaphthene-d10	7.08	6.58	7.58	7.08	0.00
15 Phenanthrene-d10	9.10	8.60	9.60	9.10	0.00
25 Chrysene-d12	13.95	13.45	14.45	13.95	0.00
33 Perylene-d12	17.80	17.30	18.30	17.80	0.00

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

REVIEW SUMMARY FOR FILE - NT822041206.D

Lab ID: SKD0159-CAL4
nt8.i, 20220412.b\FSIMPNA220411.m,   12-APR-2022 14:55

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

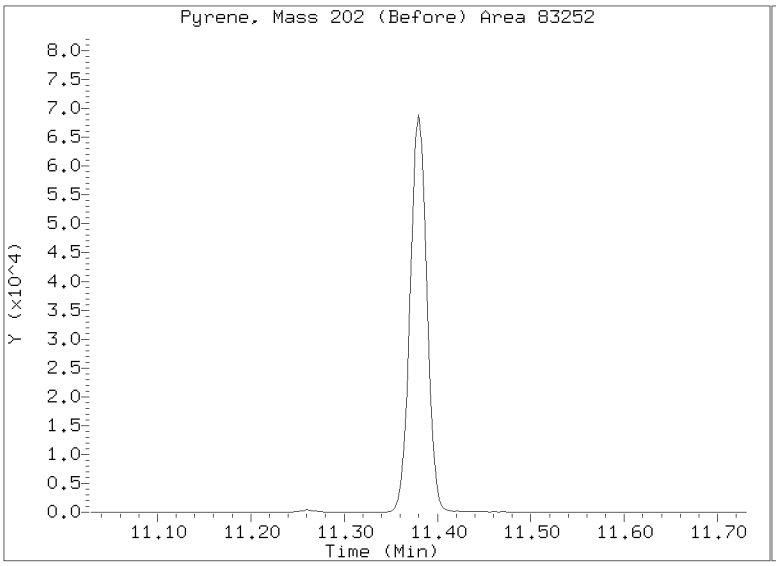
No RRT check performed

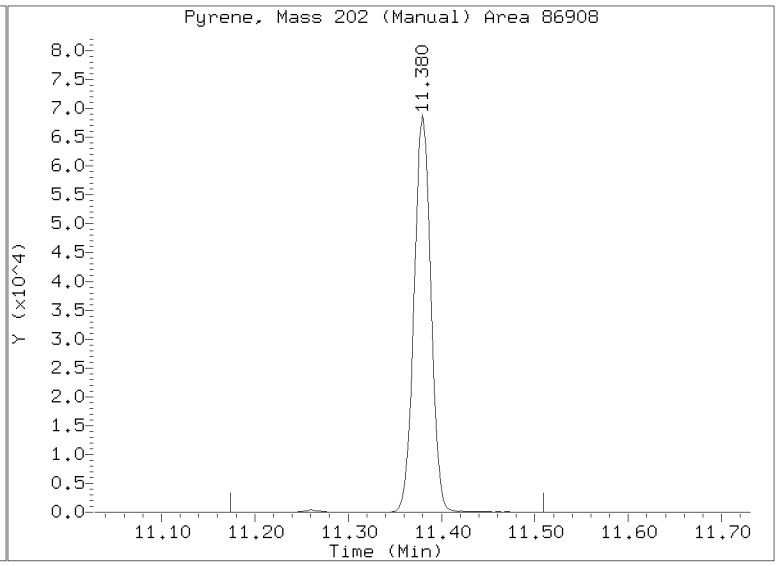
On Column LOD for nt8.i, 20220412.b\FSIMPNA220411.m, FSIMPNAICL.sub = 0.0000

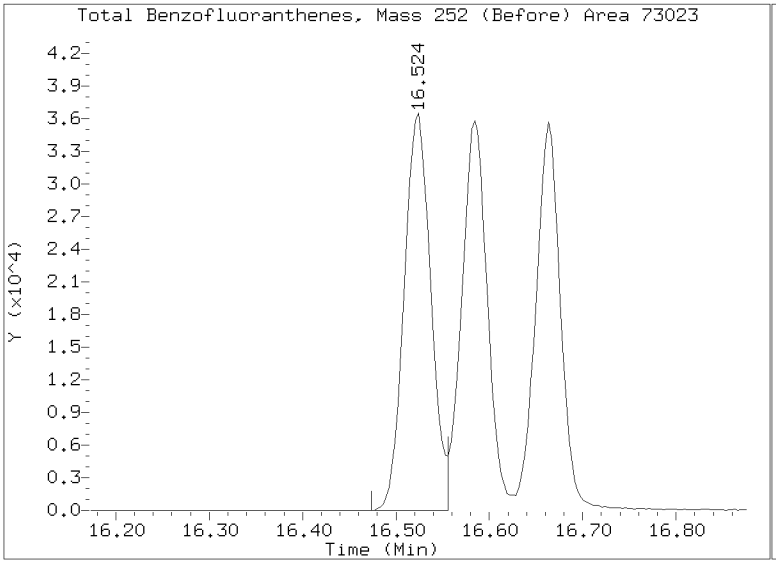
* Only compounds listed in the work order have been verified by the analyst *

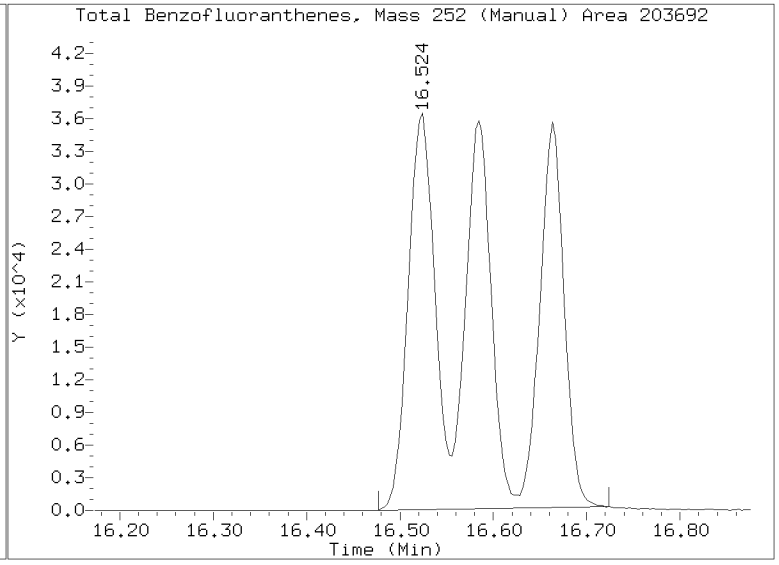
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20220412.b/NT822041206.D
Injection Date: 12-APR-2022 14:55
Lab ID:SKD0159-CAL4 Client ID:
Report Date: 04/26/2022 11:21









Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041207.D

Date : 12-APR-2022 15:22

Client ID:

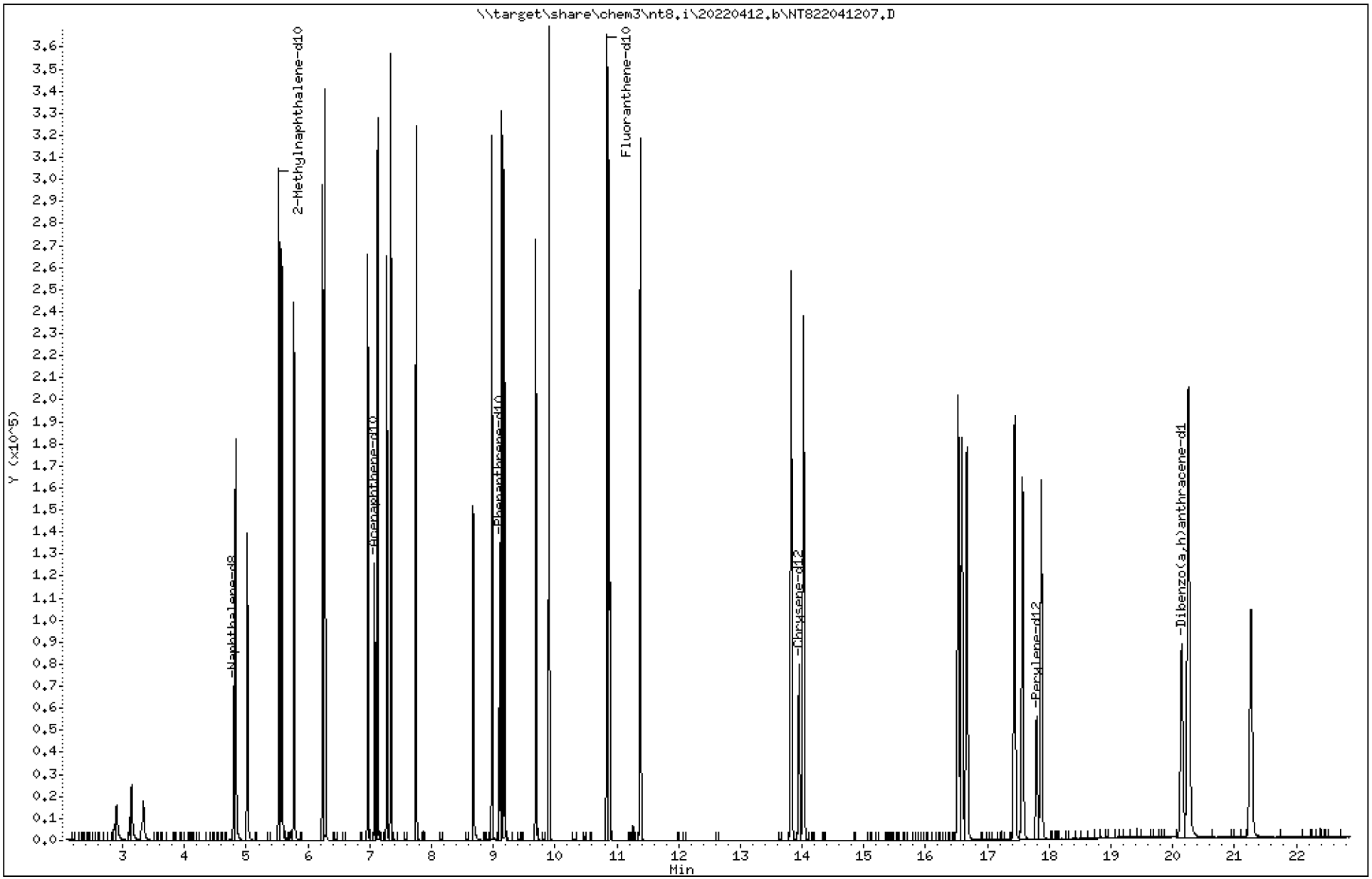
Instrument: nt8.i

Sample Info: IC5220411,

Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20220412.b\NT822041207.D
Lab Smp Id: SKD0159-CAL5
Inj Date : 12-APR-2022 15:22
Operator : JZ Inst ID: nt8.i
Smp Info : IC5220411,
Misc Info : 22-
Comment   : 1ul Injection
Method   : \\target\share\chem3\nt8.i\20220412.b\FSIMPNA220411.m
Meth Date : 26-Apr-2022 11:18 jianqing Quant Type: ISTD
Cal Date : 12-APR-2022 15:49 Cal File: NT822041208.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: FSIMPNAICL.sub
Target Version: 4.14
Processing Host: JIANQING-202105

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
*	1	Naphthalene-d8	136	4.799	4.799	(1.000)	60787	2.00000	
	2	Naphthalene	128	4.828	4.828	(1.006)	152100	5.00000	4.938
$	3	2-Methylnaphthalene-d10	152	5.527	5.526	(1.152)	113453	5.00000	4.948
	4	2-Methylnaphthalene	141	5.574	5.574	(1.161)	85722	5.00000	4.891
	5	1-methylnaphthalene	141	5.773	5.770	(1.203)	83520	5.00000	4.873
	6	2-Chloronaphthalene	162	6.260	6.260	(1.304)	89600	5.00000	4.873
	7	Biphenyl	154	6.235	6.232	(0.881)	124583	5.00000	5.001
	8	2,6-Dimethylnaphthalene	156	6.276	6.273	(0.887)	86639	5.00000	4.988
	9	Acenaphthylene	152	6.965	6.965	(0.984)	151692	5.00000	5.135
*	10	Acenaphthene-d10	164	7.076	7.076	(1.000)	34192	2.00000	
	11	Acenaphthene	153	7.126	7.126	(1.007)	97511	5.00000	4.975
	12	Dibenzofuran	168	7.275	7.275	(1.028)	134610	5.00000	4.895
	13	1,6,7-Trimethylnaphthalene	170	7.341	7.341	(1.038)	88241	5.00000	4.996
	14	Fluorene	166	7.749	7.749	(1.095)	111505	5.00000	5.040
	18	Dibenzothiophene	184	8.979	8.976	(0.986)	154655	5.00000	5.037
*	15	Phenanthrene-d10	188	9.103	9.103	(1.000)	60000	2.00000	
	16	Phenanthrene	178	9.137	9.137	(1.004)	158299	5.00000	4.973
	17	Anthracene	178	9.179	9.179	(1.008)	150612	5.00000	4.940
	19	Carbazole	167	9.688	9.688	(1.064)	143235	5.00000	5.089
	20	1-Methylphenanthrene	192	9.903	9.903	(1.088)	124254	5.00000	5.084
	22	Fluoranthene	202	10.877	10.877	(1.195)	174510	5.00000	5.011
$	21	Fluoranthene-d10	212	10.842	10.842	(1.191)	201095	5.00000	5.069
	23	Pyrene	202	11.379	11.379	(0.816)	183211	5.00000	5.046(M)
	24	Benzo(a)anthracene	228	13.824	13.820	(0.991)	179406	5.00000	5.284
*	25	Chrysene-d12	240	13.950	13.947	(1.000)	53717	2.00000	
	27	Chrysene	228	14.023	14.020	(1.005)	164738	5.00000	5.078
	28	Benzo(b)fluoranthene	252	16.527	16.524	(0.929)	163010	5.00000	5.351
	29	Benzo(k)fluoranthene	252	16.587	16.584	(0.932)	145806	5.00000	5.159
	30	Benzo(j)fluoranthene	252	16.666	16.663	(0.937)	134290	5.00000	5.172
	31	Total Benzofluoranthenes	252	16.527	16.524	(0.929)	441653	15.0000	15.72(M)
	34	Benzo(e)pyrene	252	17.444	17.434	(0.980)	147353	5.00000	5.174
	32	Benzo(a)pyrene	252	17.567	17.561	(0.987)	130093	5.00000	5.173
*	33	Perylene-d12	264	17.795	17.795	(1.000)	42910	2.00000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	35 Perylene	252	17.874	17.868	(1.004)	128948	5.00000	5.120
$	36 Dibenzo(a,h)anthracene-d14	292	20.144	20.135	(1.132)	95406	5.00000	5.176
	37 Indeno(1,2,3-cd)pyrene	276	20.258	20.245	(1.138)	133824	5.00000	5.426
	38 Dibenzo(a,h)anthracene	278	20.252	20.242	(1.138)	117690	5.00000	5.531
	39 Benzo(g,h,i)perylene	276	21.270	21.257	(1.195)	121467	5.00000	5.294

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt8.i
Lab File ID: NT822041207.D
Lab Smp Id: SKD0159-CAL5
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: \\target\share\chem3\nt8.i\20220412.b\FSIMPNA220411.m
Misc Info: 22-

Calibration Date: 12-APR-2022
Calibration Time: 14:55
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	56136	28068	112272	60787	8.29
10 Acenaphthene-d10	32604	16302	65208	34192	4.87
15 Phenanthrene-d10	58288	29144	116576	60000	2.94
25 Chrysene-d12	52801	26401	105602	53717	1.73
33 Perylene-d12	42745	21373	85490	42910	0.39

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	4.80	4.30	5.30	4.80	0.00
10 Acenaphthene-d10	7.08	6.58	7.58	7.08	0.00
15 Phenanthrene-d10	9.10	8.60	9.60	9.10	0.00
25 Chrysene-d12	13.95	13.45	14.45	13.95	0.02
33 Perylene-d12	17.80	17.30	18.30	17.80	0.00

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

REVIEW SUMMARY FOR FILE - NT822041207.D

Lab ID: SKD0159-CAL5
nt8.i, 20220412.b\FSIMPNA220411.m,   12-APR-2022 15:22

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

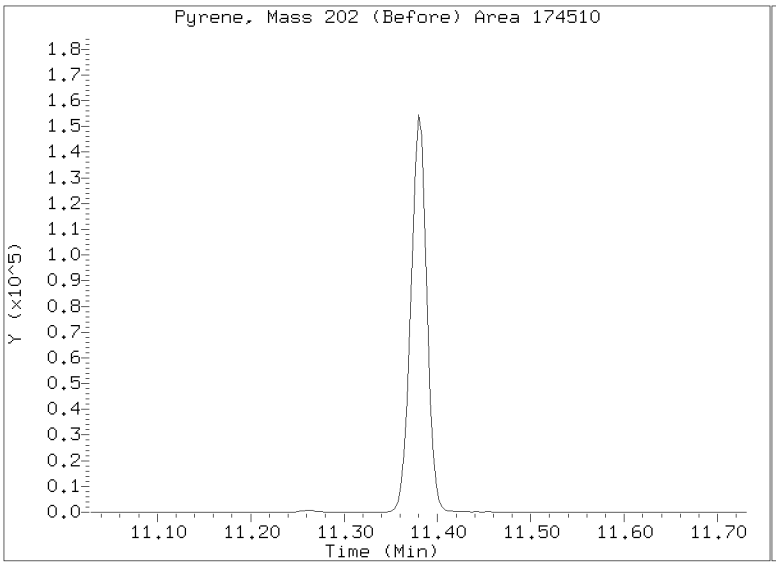
No RRT check performed

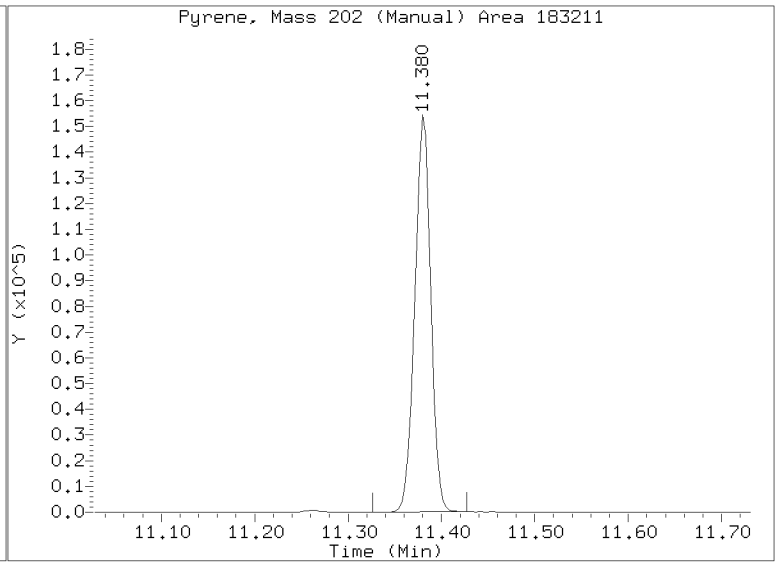
On Column LOD for nt8.i, 20220412.b\FSIMPNA220411.m, FSIMPNAICL.sub = 0.0000

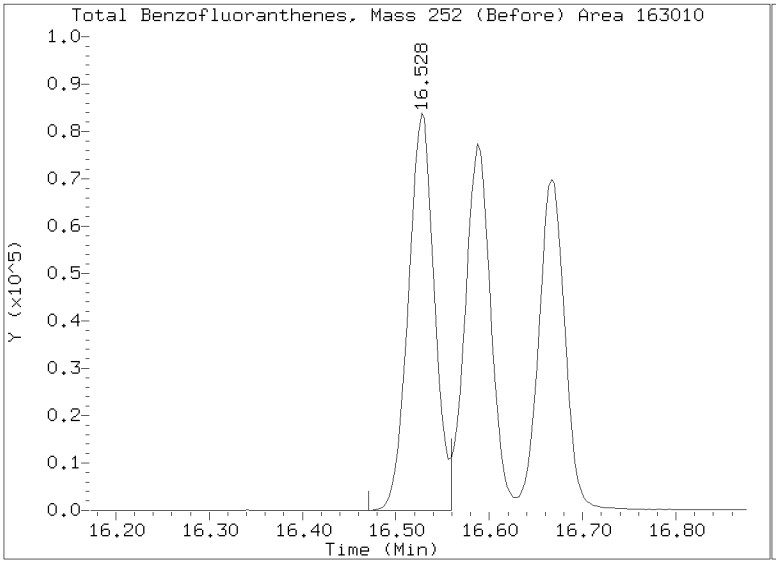
* Only compounds listed in the work order have been verified by the analyst *

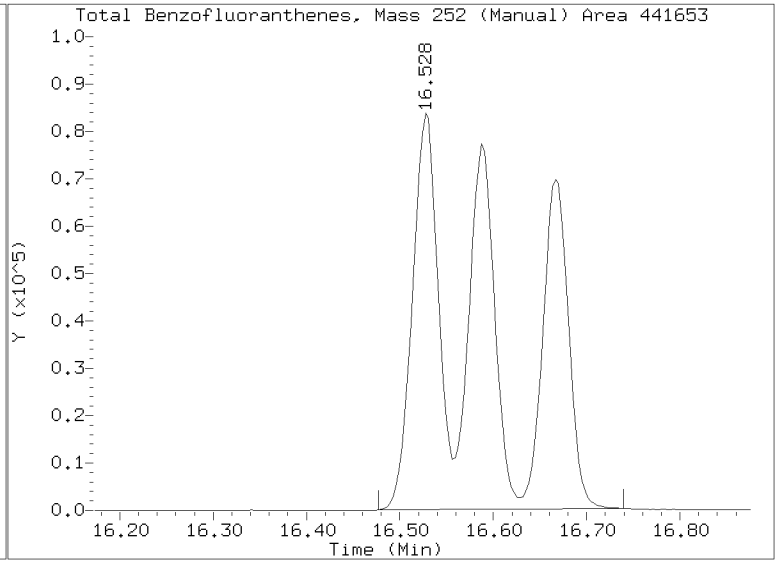
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20220412.b/NT822041207.D
Injection Date: 12-APR-2022 15:22
Lab ID:SKD0159-CAL5 Client ID:
Report Date: 04/26/2022 11:21









Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041208.D

Date : 12-APR-2022 15:49

Client ID:

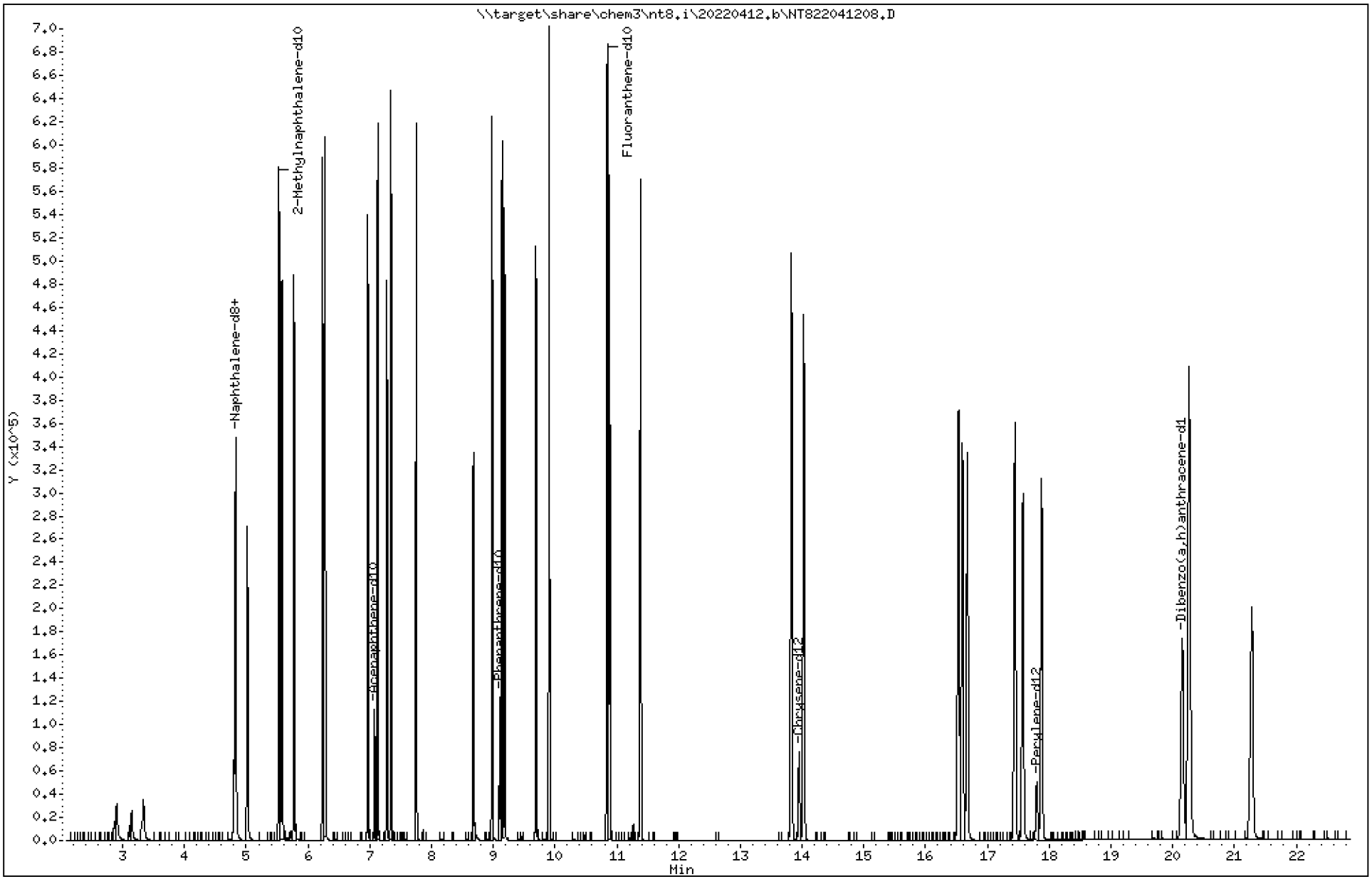
Instrument: nt8.i

Sample Info: IC10220411,

Operator: JZ

Column phase: Rxi-17sil

Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20220412.b\NT822041208.D
Lab Smp Id: SKD0159-CAL6
Inj Date : 12-APR-2022 15:49
Operator : JZ Inst ID: nt8.i
Smp Info : IC10220411,
Misc Info : 22-
Comment : 1ul Injection
Method : \\target\share\chem3\nt8.i\20220412.b\FSIMPNA220411.m
Meth Date : 26-Apr-2022 11:18 jianqing Quant Type: ISTD
Cal Date : 12-APR-2022 15:49 Cal File: NT822041208.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: FSIMPNAICL.sub
Target Version: 4.14
Processing Host: JIANQING-202105

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
*	1	Naphthalene-d8	136	4.799	4.799	(1.000)	60812	2.00000	
	2	Naphthalene	128	4.828	4.828	(1.006)	296585	10.0000	9.625
$	3	2-Methylnaphthalene-d10	152	5.530	5.526	(1.152)	220876	10.0000	9.630
	4	2-Methylnaphthalene	141	5.577	5.574	(1.162)	161683	10.0000	9.222
	5	1-methylnaphthalene	141	5.773	5.770	(1.203)	157765	10.0000	9.201
	6	2-Chloronaphthalene	162	6.263	6.260	(1.305)	163330	10.0000	8.879
	7	Biphenyl	154	6.235	6.232	(0.881)	238462	10.0000	10.08
	8	2,6-Dimethylnaphthalene	156	6.276	6.273	(0.887)	155957	10.0000	9.454
	9	Acenaphthylene	152	6.968	6.965	(0.985)	290709	10.0000	10.36
*	10	Acenaphthene-d10	164	7.076	7.076	(1.000)	32477	2.00000	
	11	Acenaphthene	153	7.126	7.126	(1.007)	183276	10.0000	9.844
	12	Dibenzofuran	168	7.275	7.275	(1.028)	253100	10.0000	9.689
	13	1,6,7-Trimethylnaphthalene	170	7.345	7.341	(1.038)	160333	10.0000	9.557
	14	Fluorene	166	7.753	7.749	(1.096)	212723	10.0000	10.12
	18	Dibenzothiophene	184	8.979	8.976	(0.986)	296023	10.0000	10.16
*	15	Phenanthrene-d10	188	9.103	9.103	(1.000)	56946	2.00000	
	16	Phenanthrene	178	9.141	9.137	(1.004)	296545	10.0000	9.816
	17	Anthracene	178	9.182	9.179	(1.009)	271497	10.0000	9.383
	19	Carbazole	167	9.691	9.688	(1.065)	272263	10.0000	10.19
	20	1-Methylphenanthrene	192	9.906	9.903	(1.088)	233956	10.0000	10.09
	22	Fluoranthene	202	10.880	10.877	(1.195)	313984	10.0000	9.499
$	21	Fluoranthene-d10	212	10.845	10.842	(1.191)	393024	10.0000	10.44
	23	Pyrene	202	11.382	11.379	(0.816)	345747	10.0000	9.960(M)
	24	Benzo(a)anthracene	228	13.827	13.820	(0.991)	360050	10.0000	11.09
*	25	Chrysene-d12	240	13.950	13.947	(1.000)	51361	2.00000	
	27	Chrysene	228	14.026	14.020	(1.005)	309143	10.0000	9.966
	28	Benzo(b)fluoranthene	252	16.533	16.524	(0.929)	326625	10.0000	11.78
	29	Benzo(k)fluoranthene	252	16.597	16.584	(0.932)	276588	10.0000	10.76
	30	Benzo(j)fluoranthene	252	16.676	16.663	(0.937)	240765	10.0000	10.19
	31	Total Benzofluoranthenes	252	16.533	16.524	(0.929)	842728	30.0000	32.96(M)
	34	Benzo(e)pyrene	252	17.444	17.434	(0.980)	284740	10.0000	10.99
	32	Benzo(a)pyrene	252	17.574	17.561	(0.987)	242967	10.0000	10.62
*	33	Perylene-d12	264	17.798	17.795	(1.000)	39041	2.00000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	35 Perylene	252	17.877	17.868	(1.004)	238870	10.0000	10.43
$	36 Dibenzo(a,h)anthracene-d14	292	20.157	20.135	(1.133)	200299	10.0000	11.94
	37 Indeno(1,2,3-cd)pyrene	276	20.271	20.245	(1.139)	264335	10.0000	11.78
	38 Dibenzo(a,h)anthracene	278	20.264	20.242	(1.139)	239531	10.0000	12.37
	39 Benzo(g,h,i)perylene	276	21.283	21.257	(1.196)	248162	10.0000	11.89

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt8.i
Lab File ID: NT822041208.D
Lab Smp Id: SKD0159-CAL6
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: \\target\share\chem3\nt8.i\20220412.b\FSIMPNA220411.m
Misc Info: 22-

Calibration Date: 12-APR-2022
Calibration Time: 14:55
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	56136	28068	112272	60812	8.33
10 Acenaphthene-d10	32604	16302	65208	32477	-0.39
15 Phenanthrene-d10	58288	29144	116576	56946	-2.30
25 Chrysene-d12	52801	26401	105602	51361	-2.73
33 Perylene-d12	42745	21373	85490	39041	-8.67

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	4.80	4.30	5.30	4.80	0.00
10 Acenaphthene-d10	7.08	6.58	7.58	7.08	0.00
15 Phenanthrene-d10	9.10	8.60	9.60	9.10	0.00
25 Chrysene-d12	13.95	13.45	14.45	13.95	0.02
33 Perylene-d12	17.80	17.30	18.30	17.80	0.02

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

REVIEW SUMMARY FOR FILE - NT822041208.D

Lab ID: SKD0159-CAL6
nt8.i, 20220412.b\FSIMPNA220411.m,   12-APR-2022 15:49

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

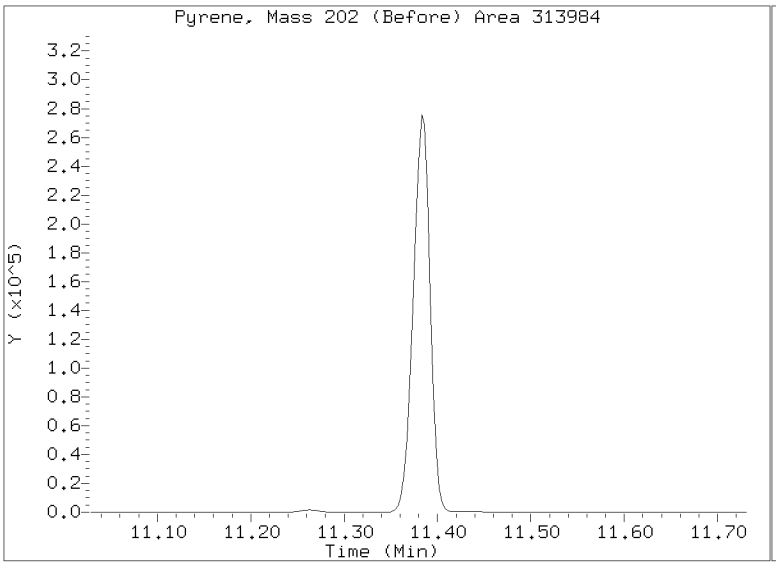
No RRT check performed

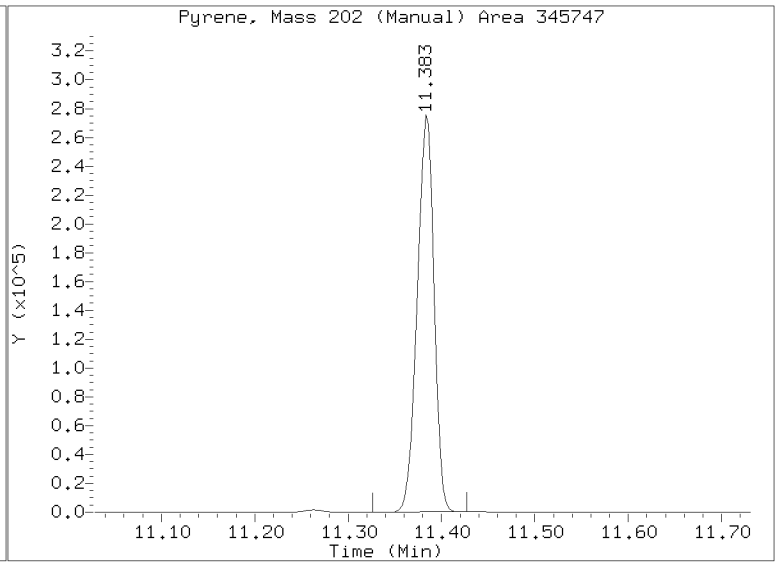
On Column LOD for nt8.i, 20220412.b\FSIMPNA220411.m, FSIMPNAICL.sub = 0.0000

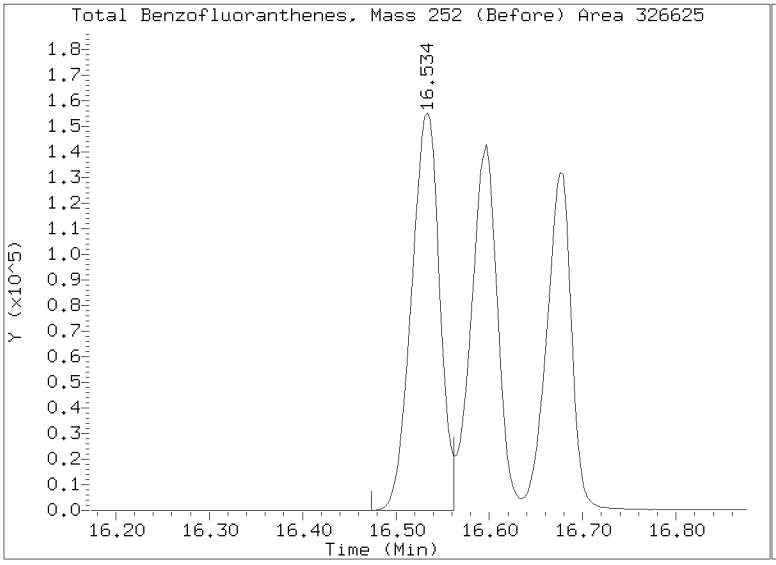
* Only compounds listed in the work order have been verified by the analyst *

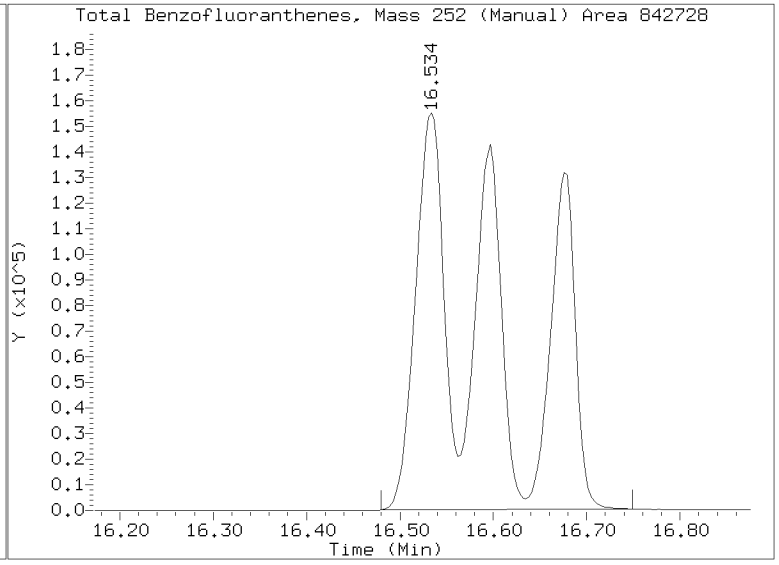
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20220412.b/NT822041208.D
Injection Date: 12-APR-2022 15:49
Lab ID:SKD0159-CAL6 Client ID:
Report Date: 04/26/2022 11:21



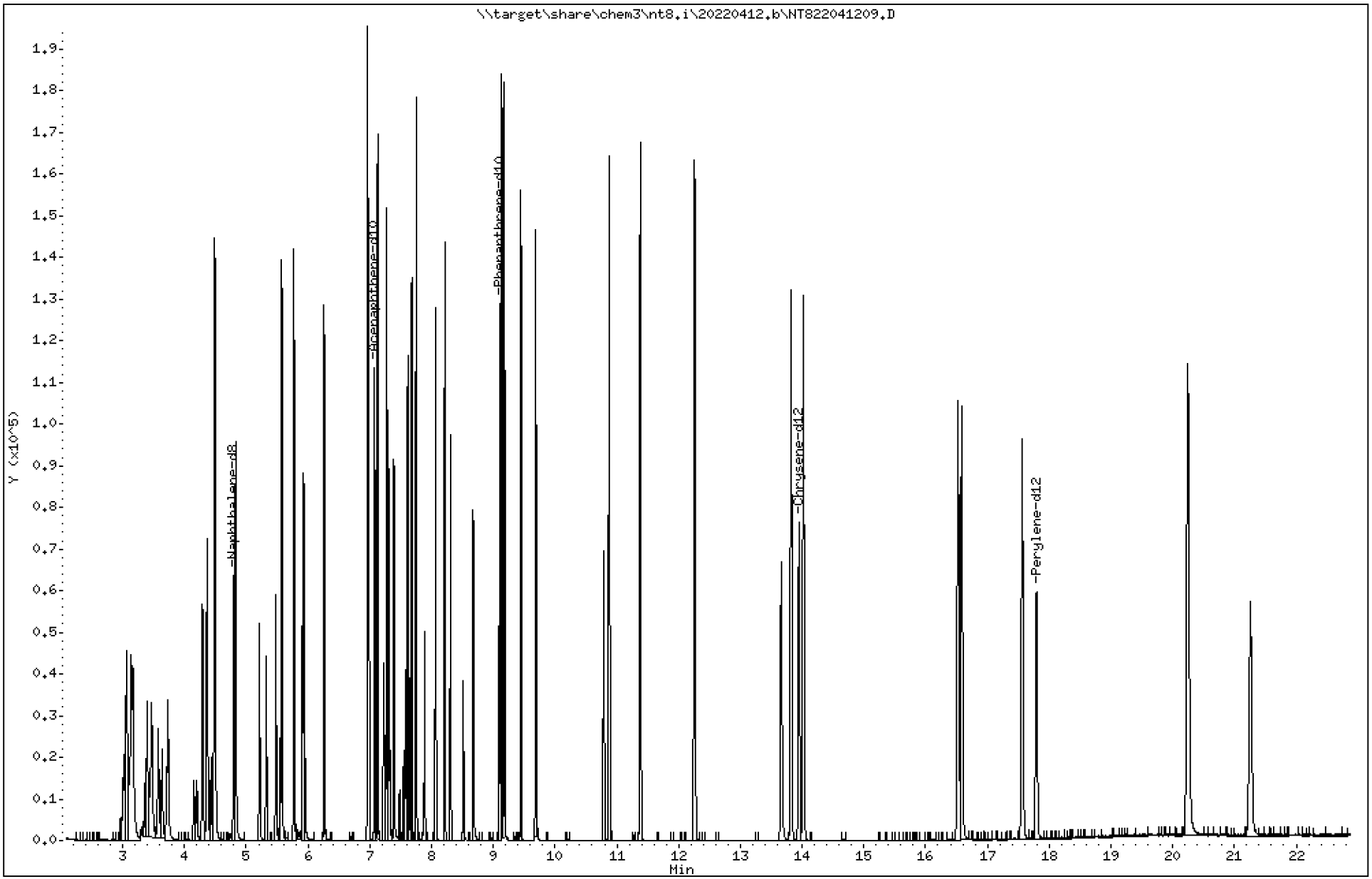






Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D
Date : 12-APR-2022 16:16
Client ID:
Sample Info: SCV220411,
Volume Injected (uL): 1.0
Column phase: Rxi-17sil

Instrument: nt8.i
Operator: JZ
Column diameter: 0.25



Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

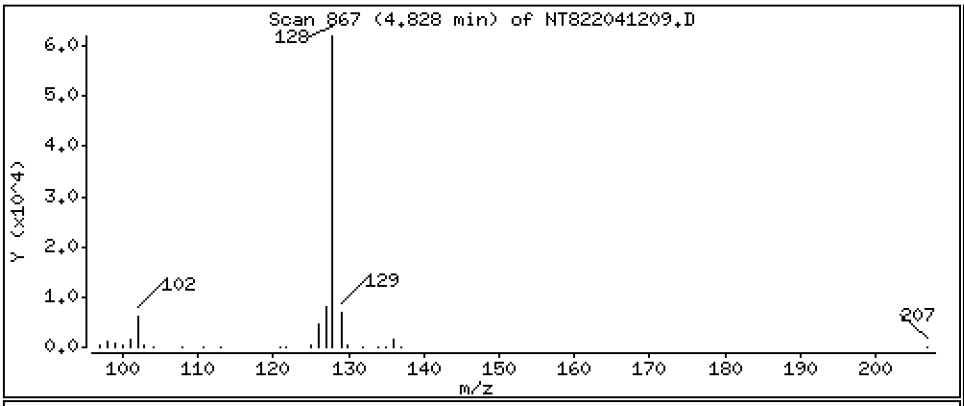
Operator: JZ

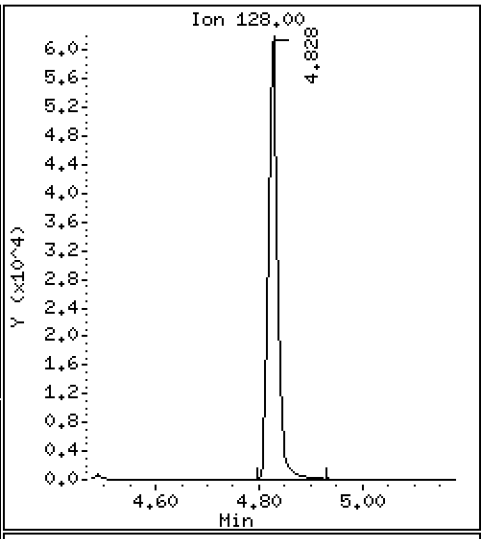
Column phase: Rxi-17sil

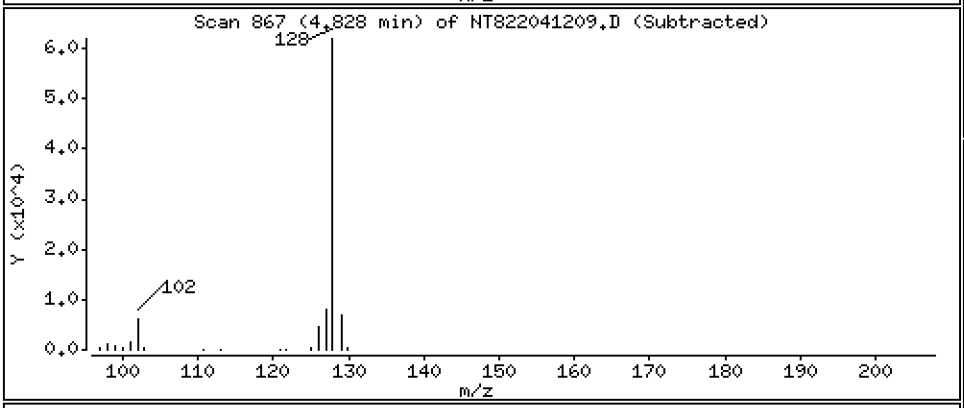
Column diameter: 0.25

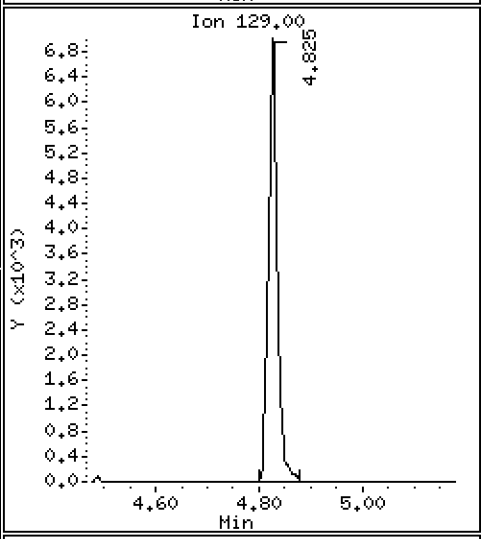
2 Naphthalene

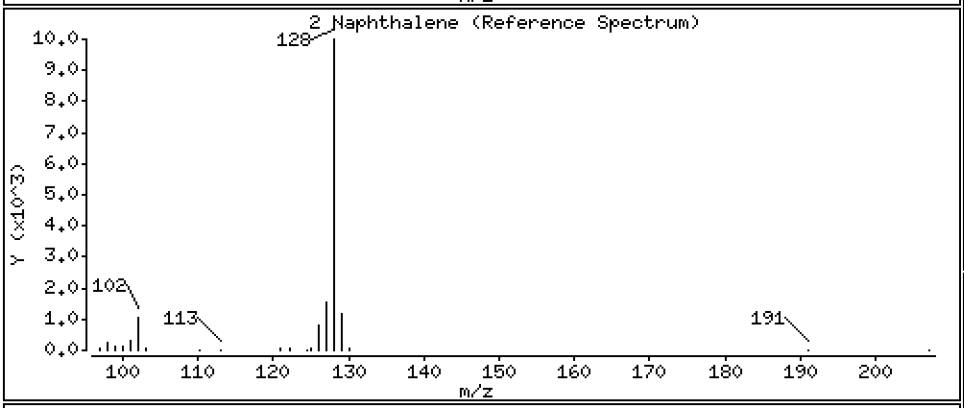
Concentration: 2.813 ug/L

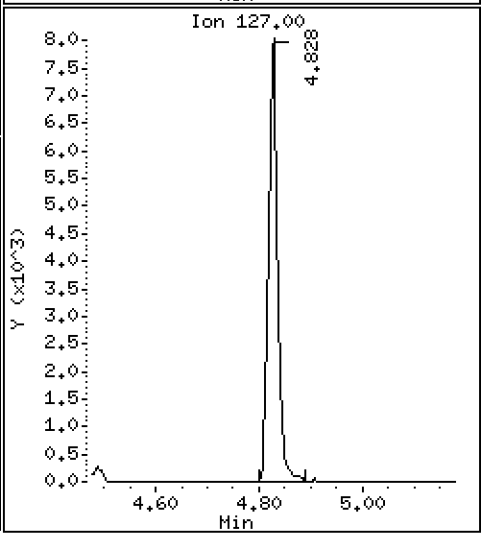


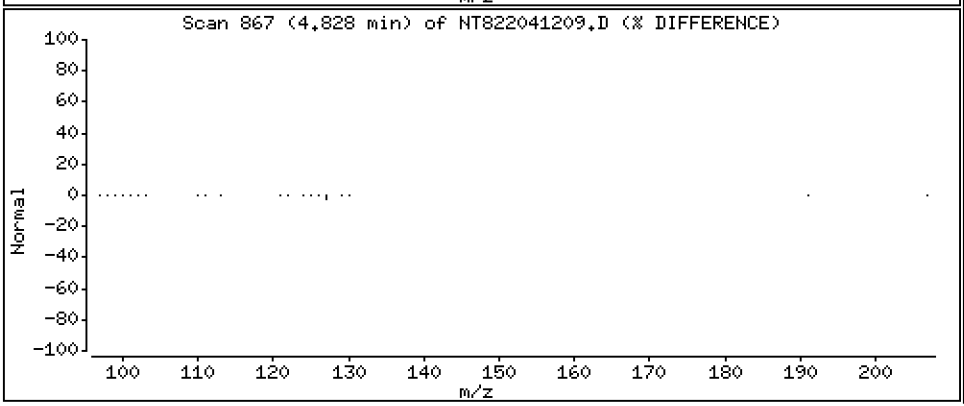












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Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

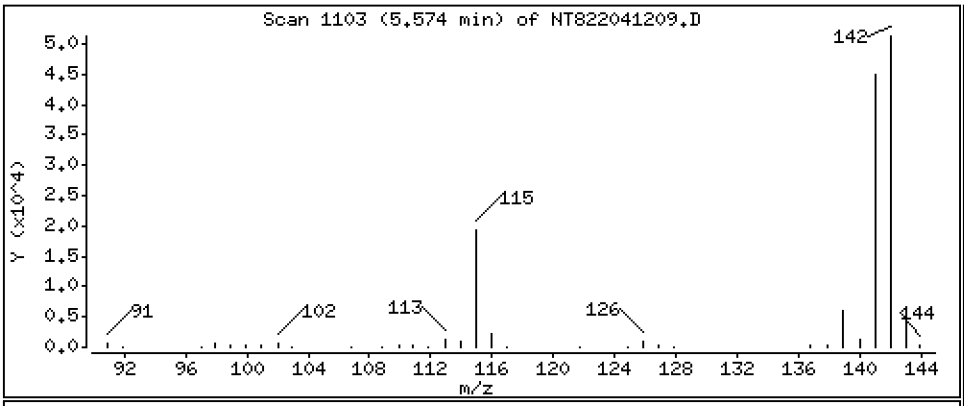
Operator: JZ

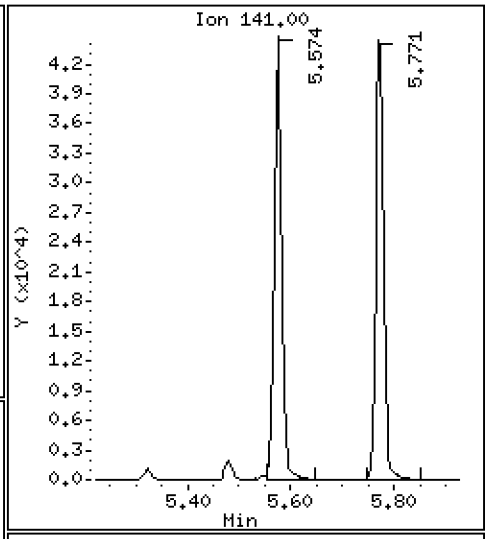
Column phase: Rxi-17sil

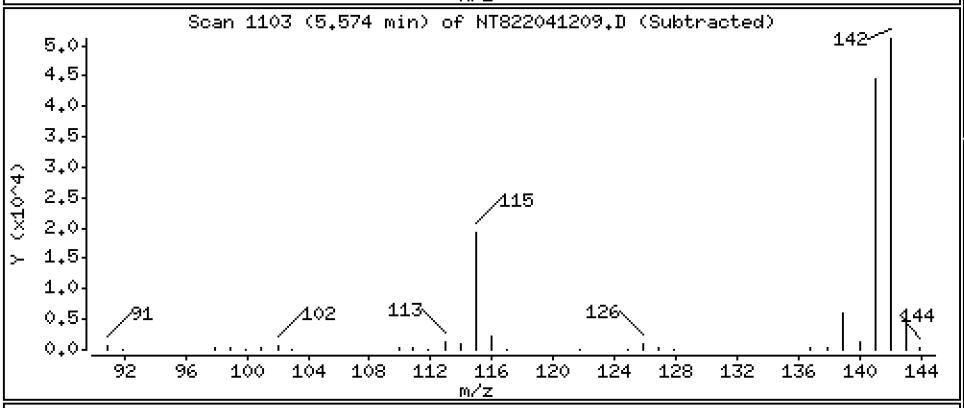
Column diameter: 0.25

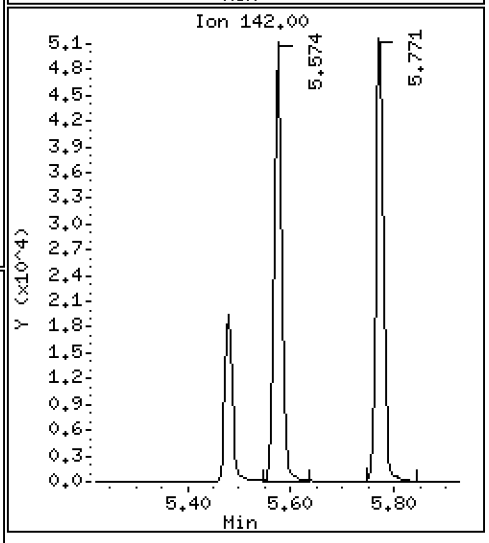
4 2-Methylnaphthalene

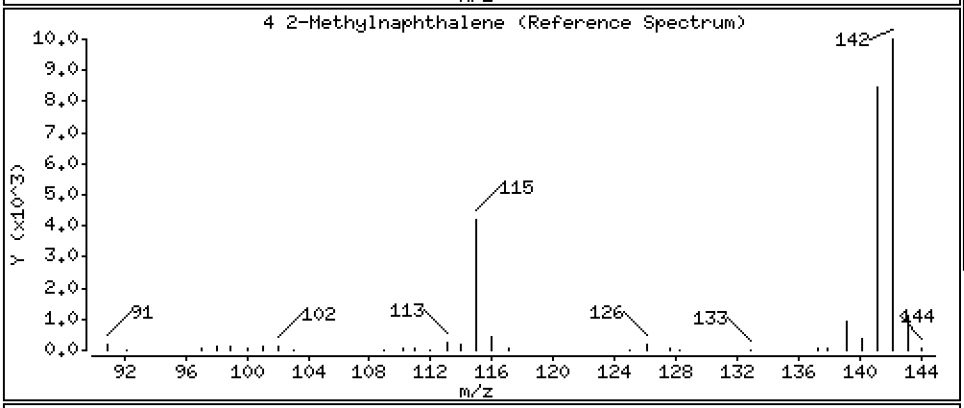
Concentration: 2.908 ug/L

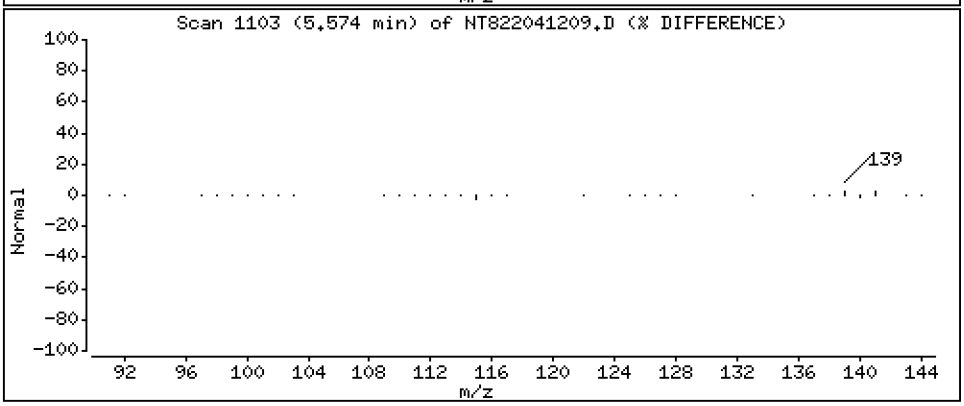












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

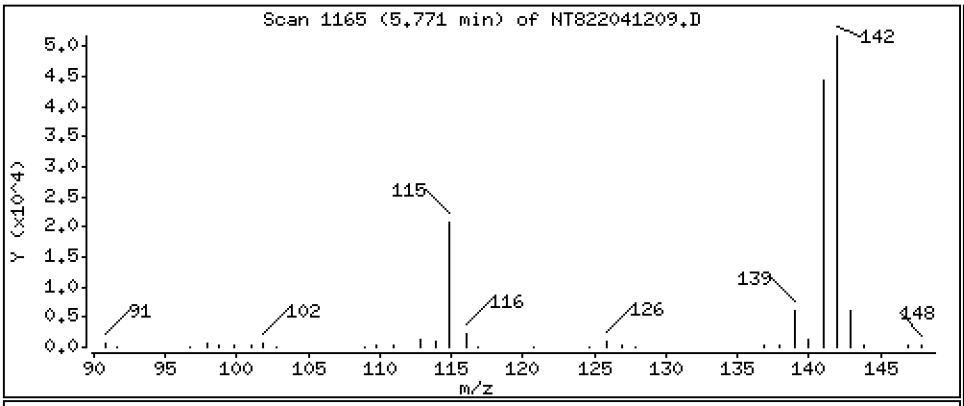
Operator: JZ

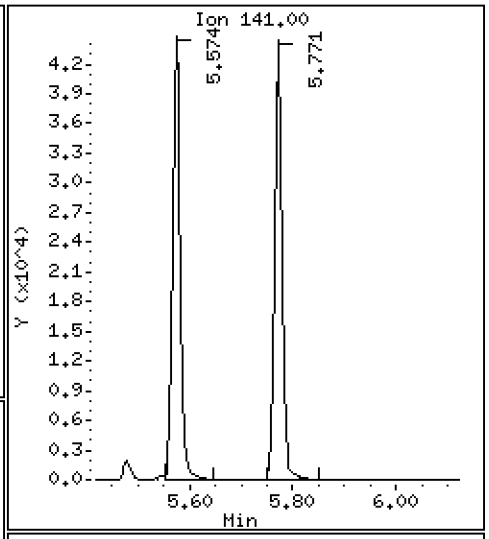
Column phase: Rxi-17sil

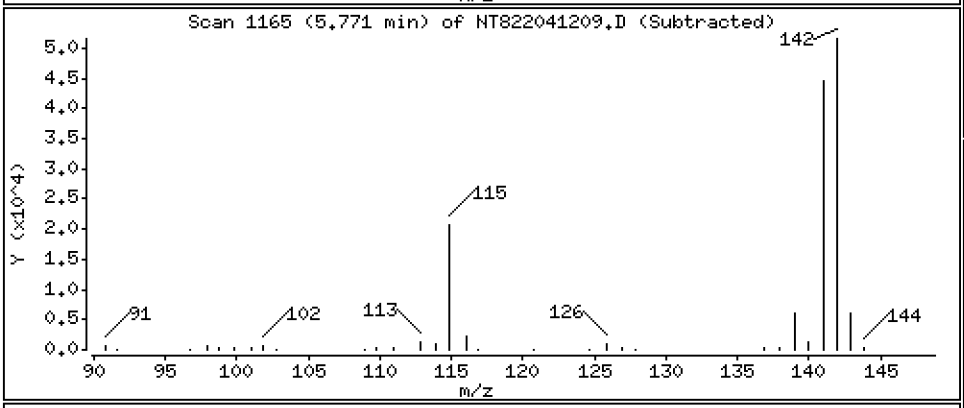
Column diameter: 0.25

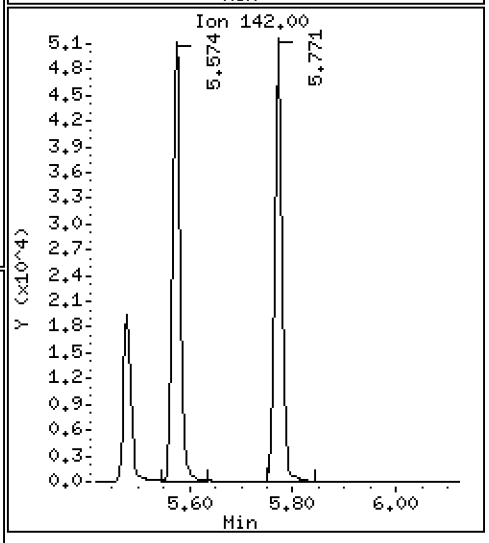
5 1-methylnaphthalene

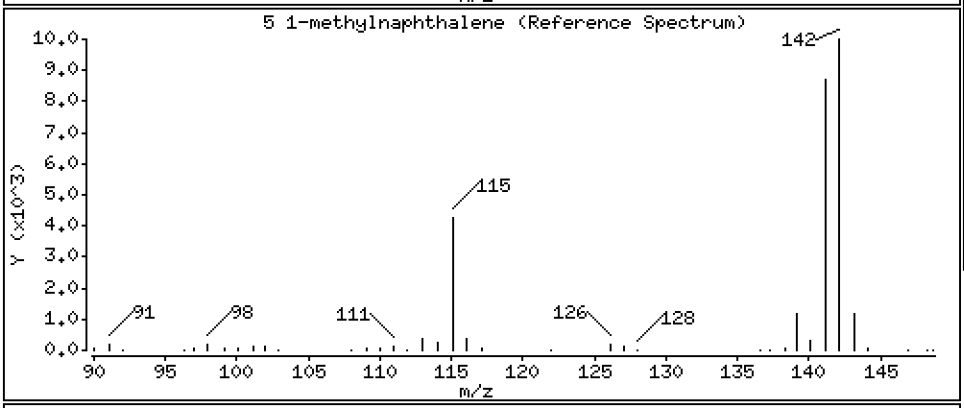
Concentration: 3.001 ug/L

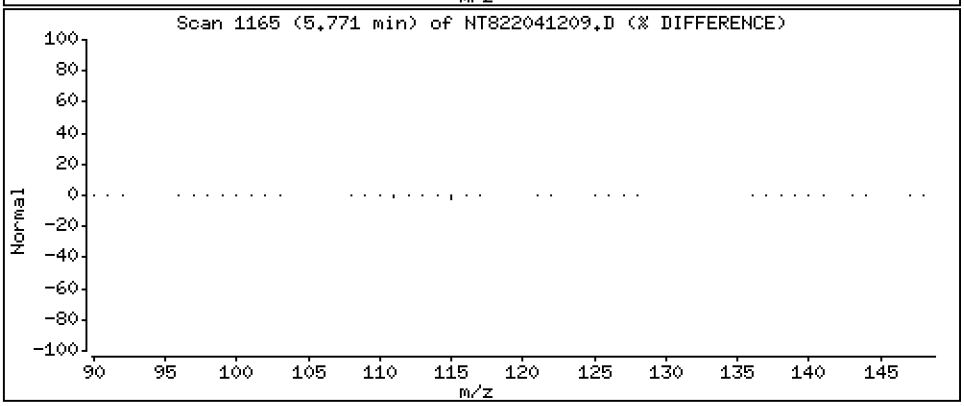












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

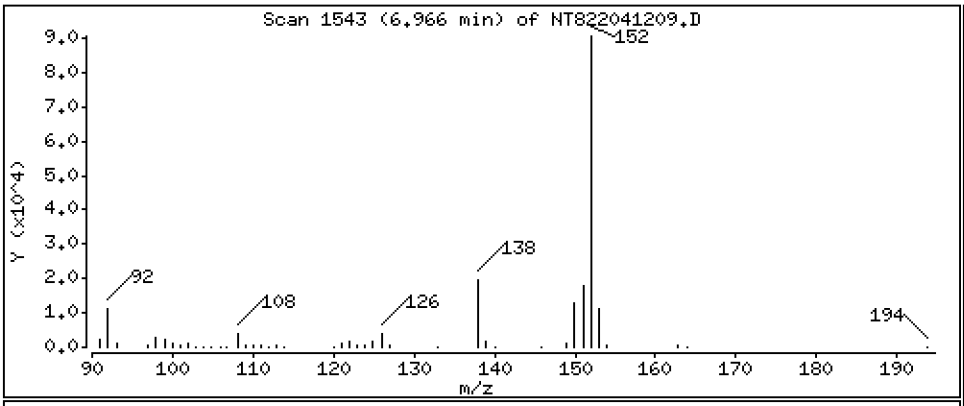
Operator: JZ

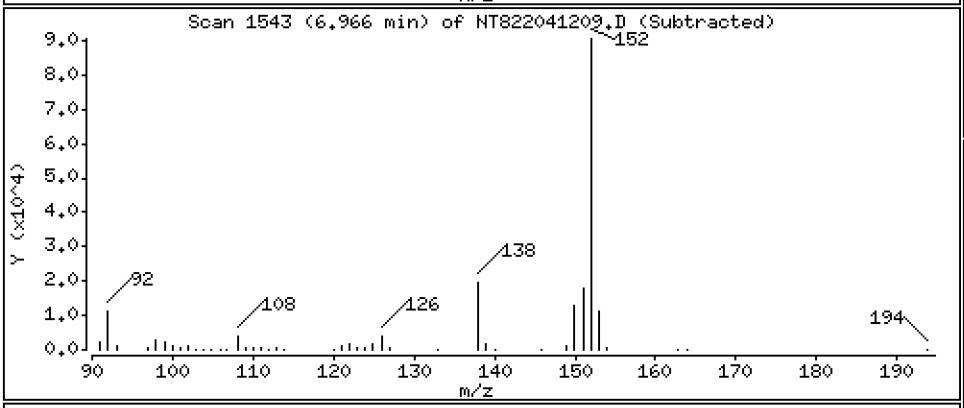
Column phase: Rxi-17sil

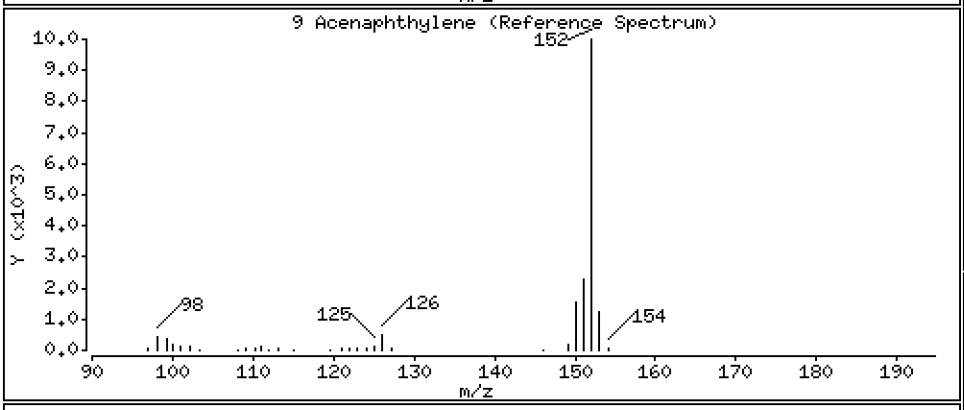
Column diameter: 0.25

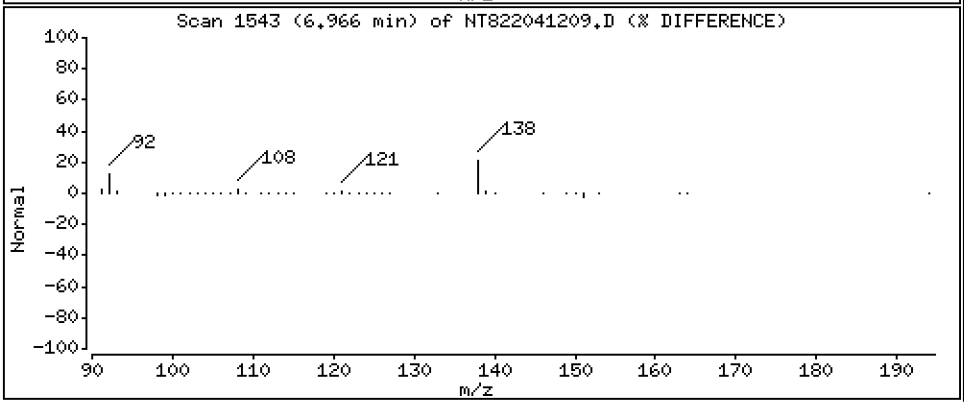
9 Acenaphthylene

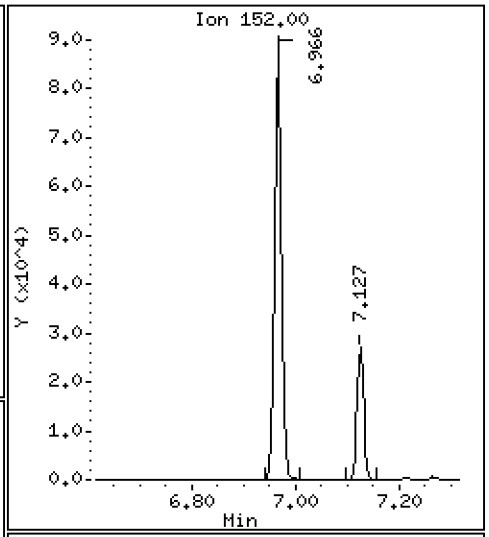
Concentration: 2.969 ug/L

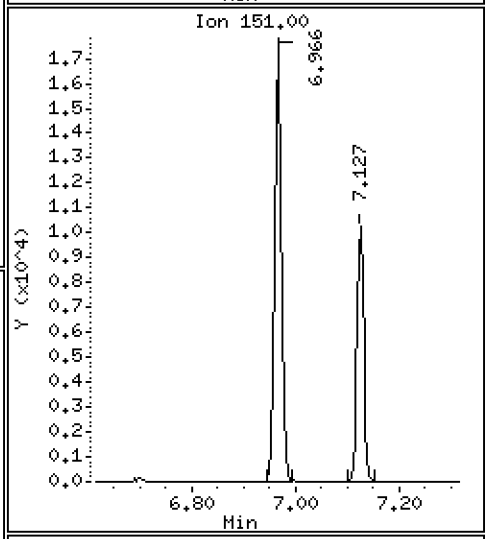


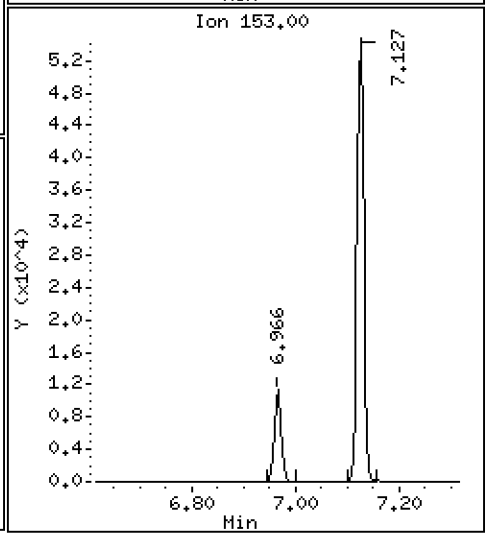












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Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

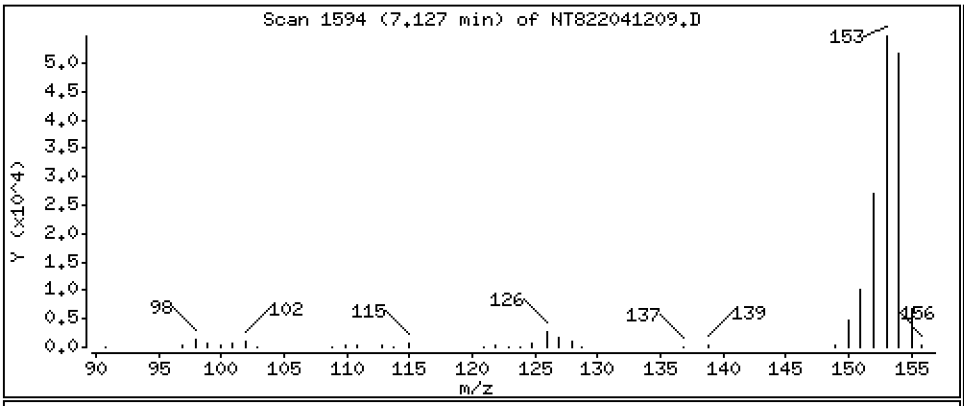
Operator: JZ

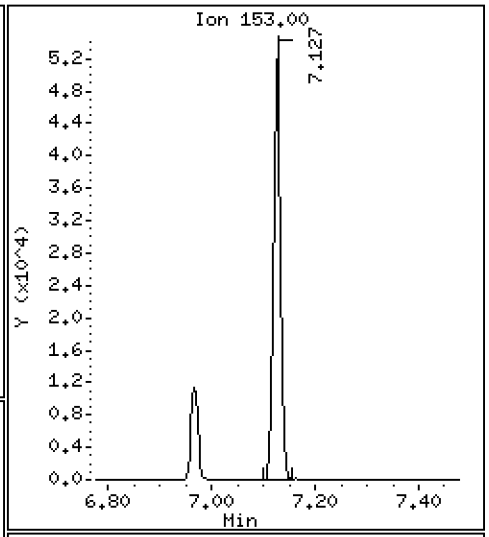
Column phase: Rxi-17sil

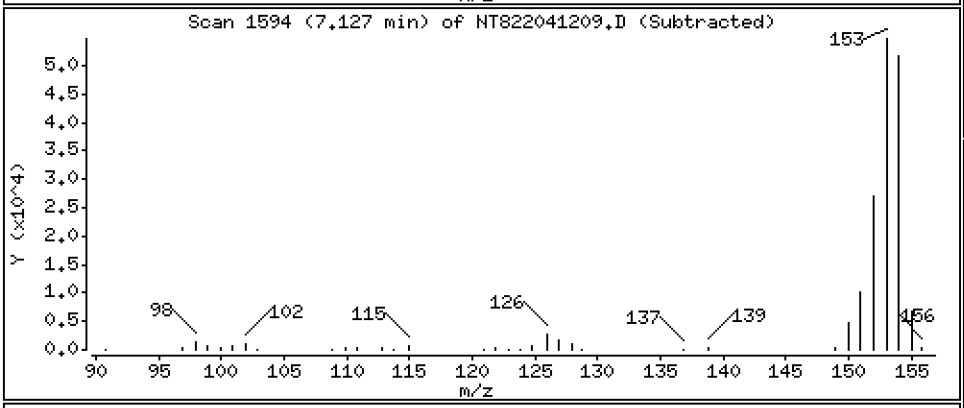
Column diameter: 0.25

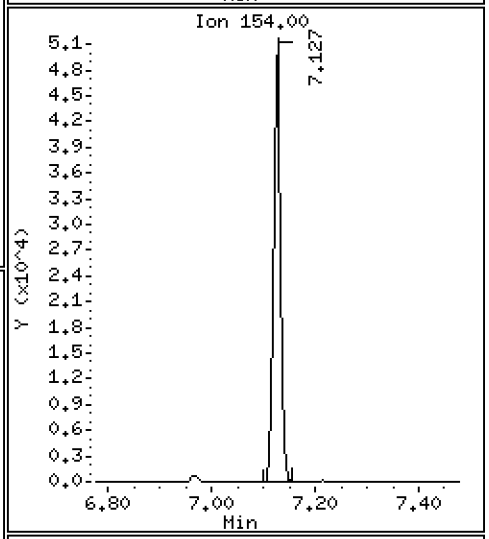
11 Acenaphthene

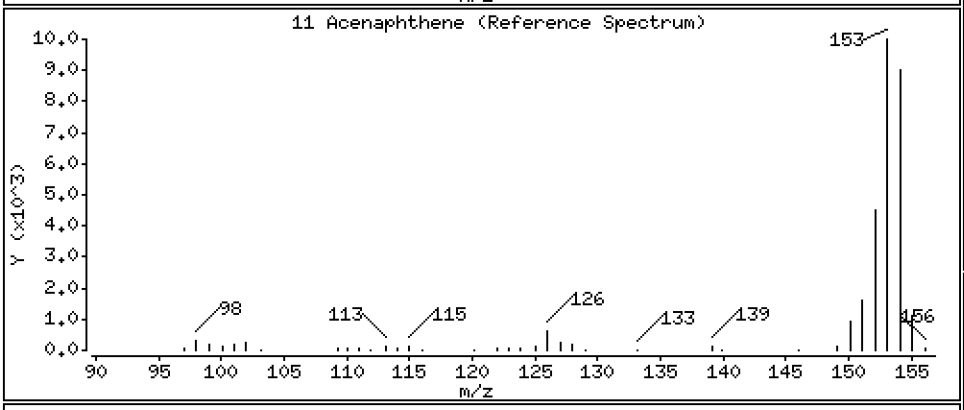
Concentration: 2.673 ug/L

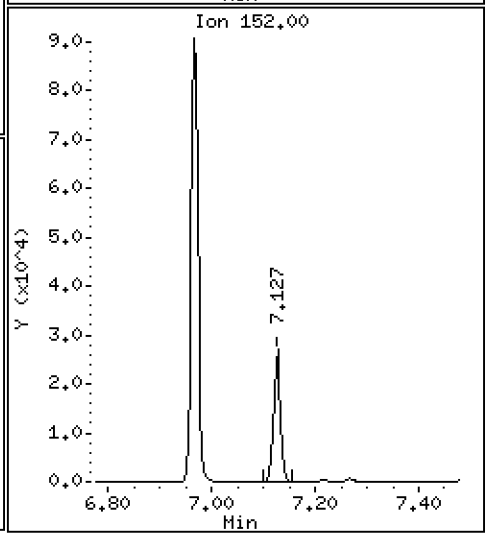


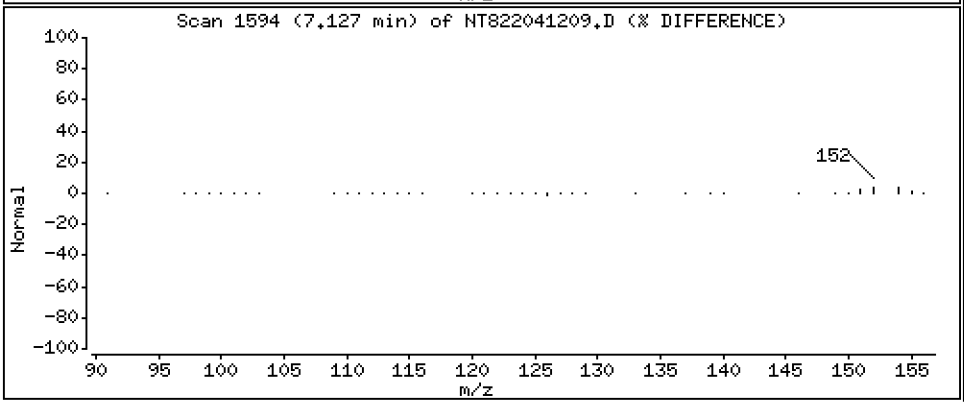












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Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

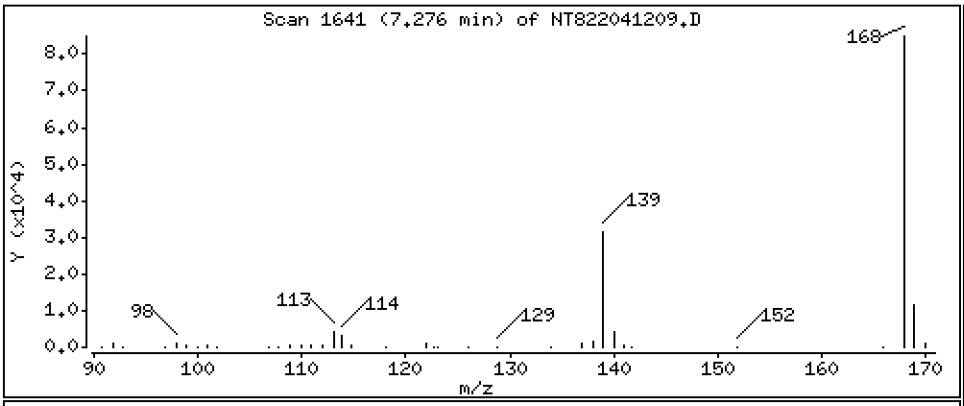
Operator: JZ

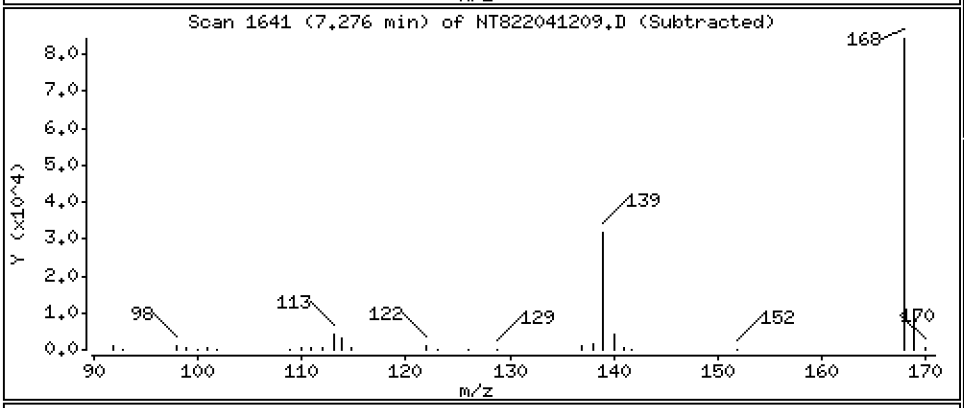
Column phase: Rxi-17sil

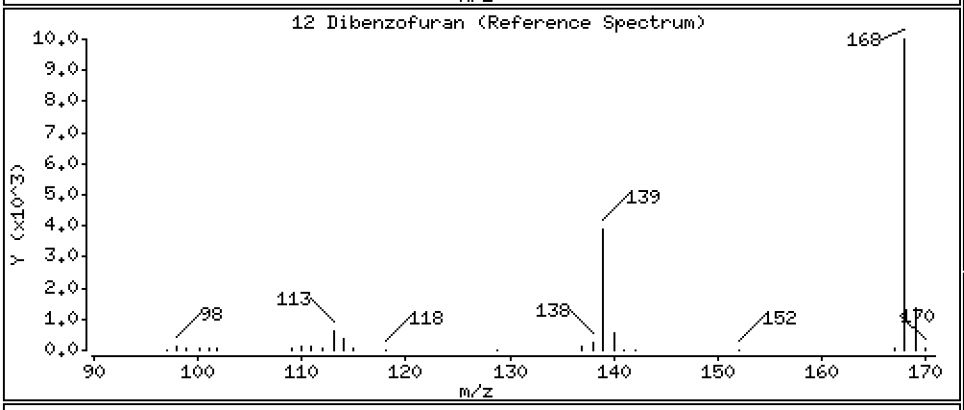
Column diameter: 0.25

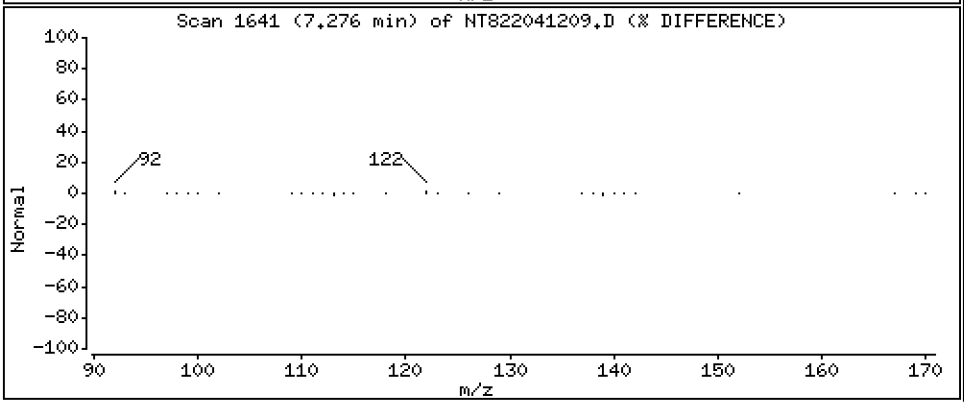
12 Dibenzofuran

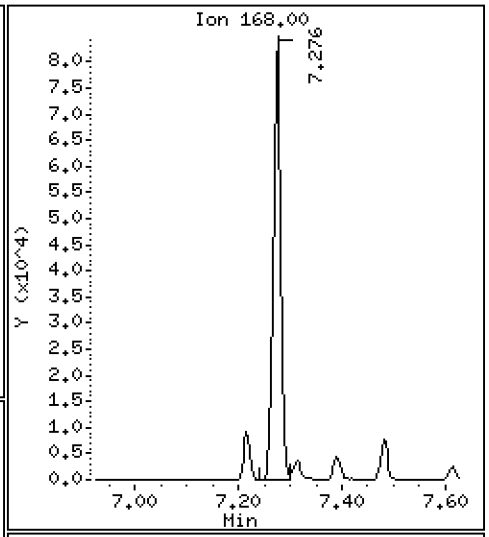
Concentration: 3.192 ug/L

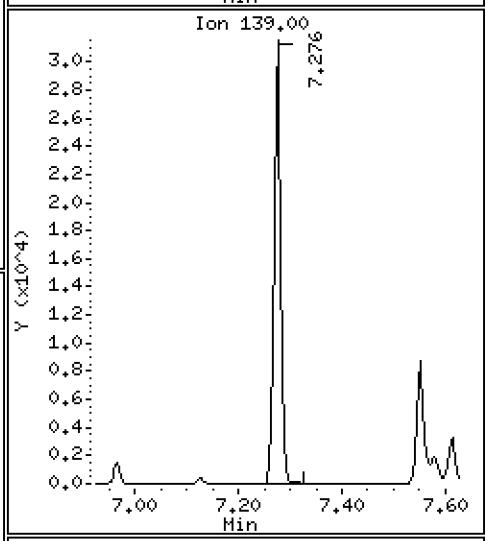


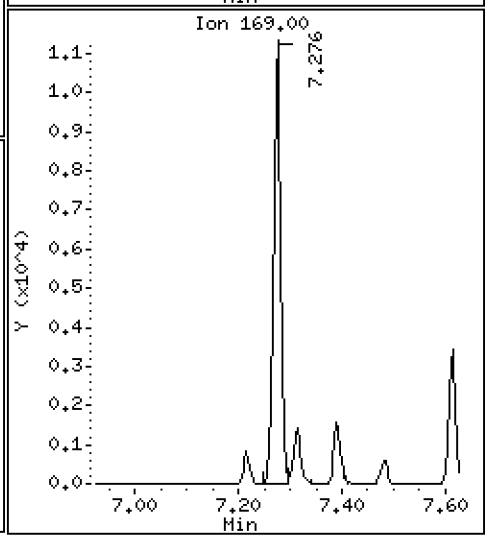












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Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

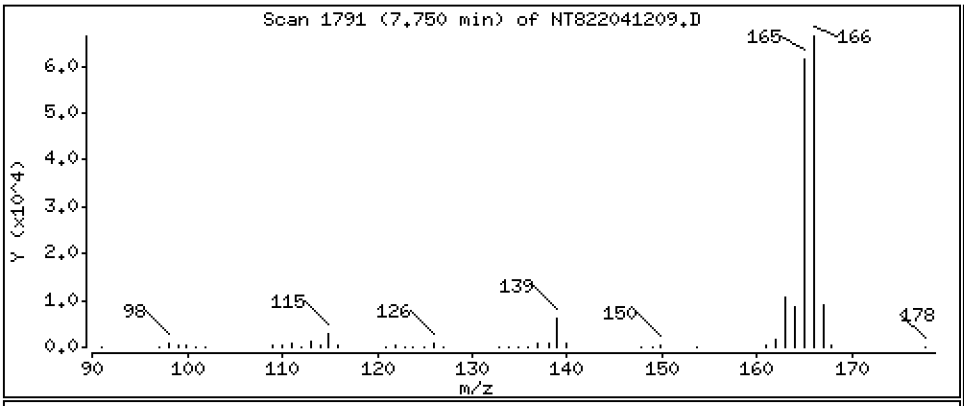
Operator: JZ

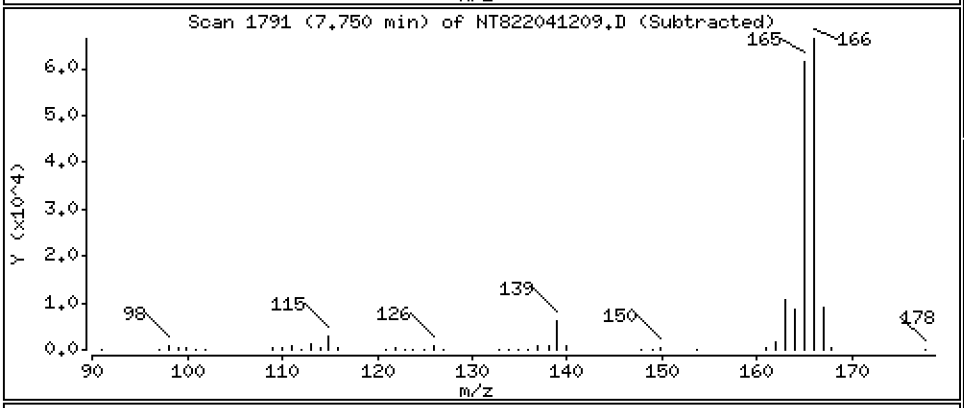
Column phase: Rxi-17sil

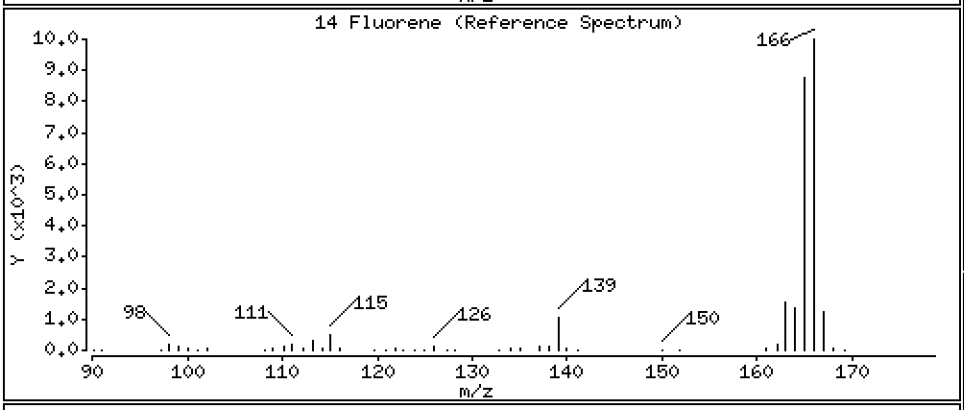
Column diameter: 0.25

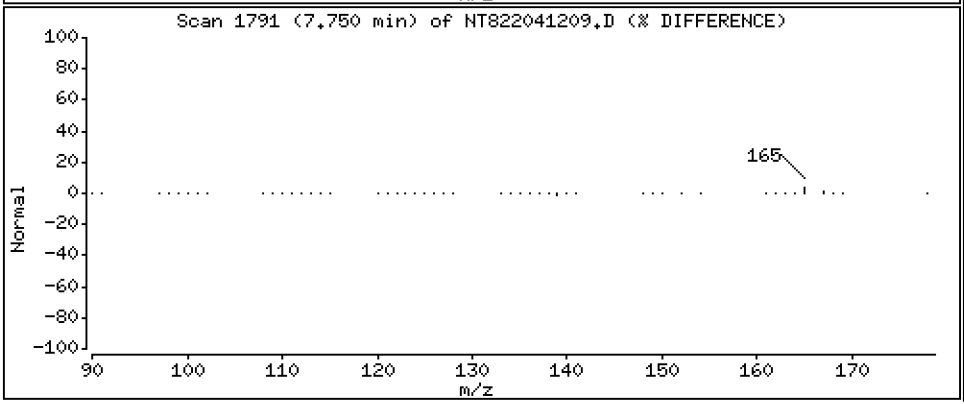
14 Fluorene

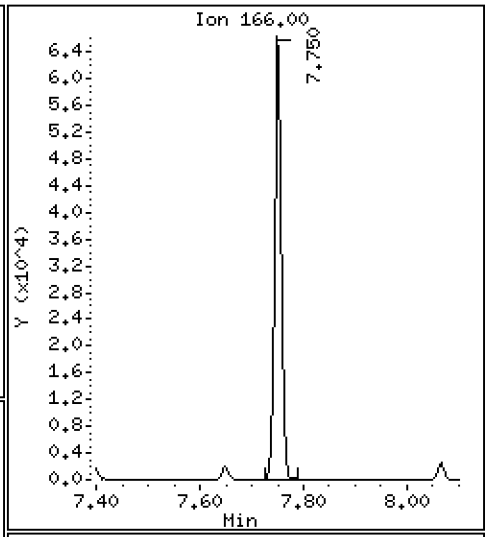
Concentration: 2.824 ug/L

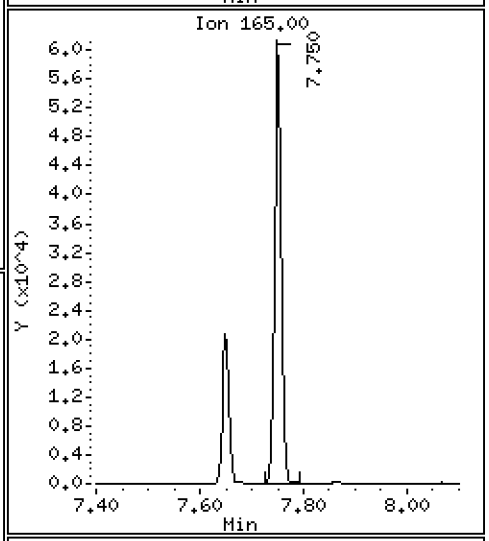


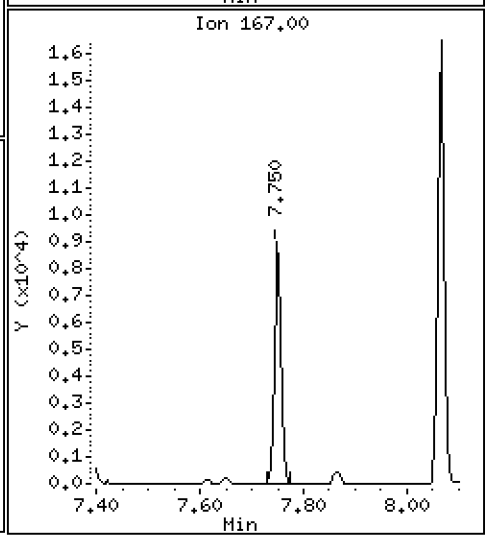












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

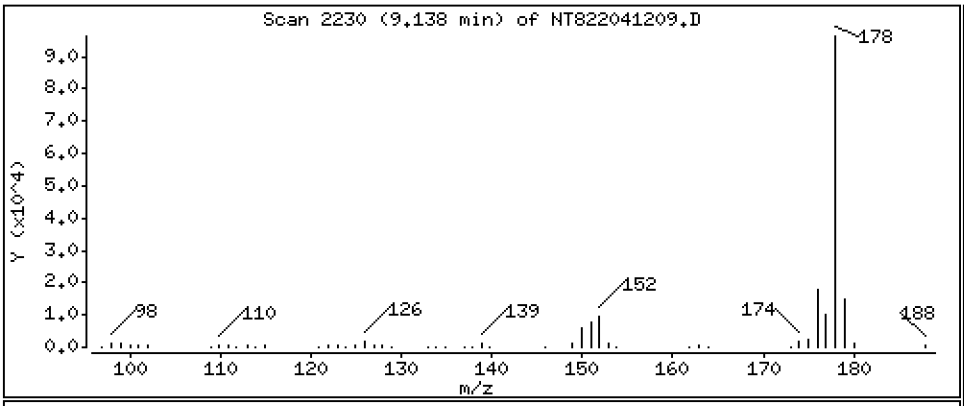
Operator: JZ

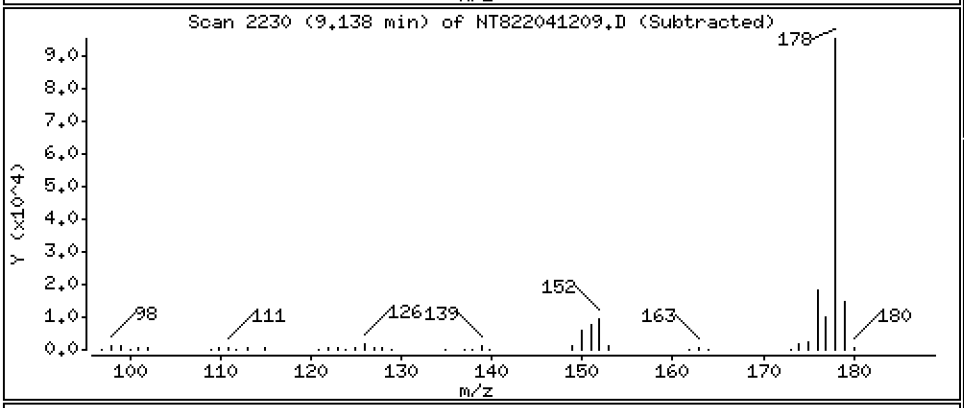
Column phase: Rxi-17sil

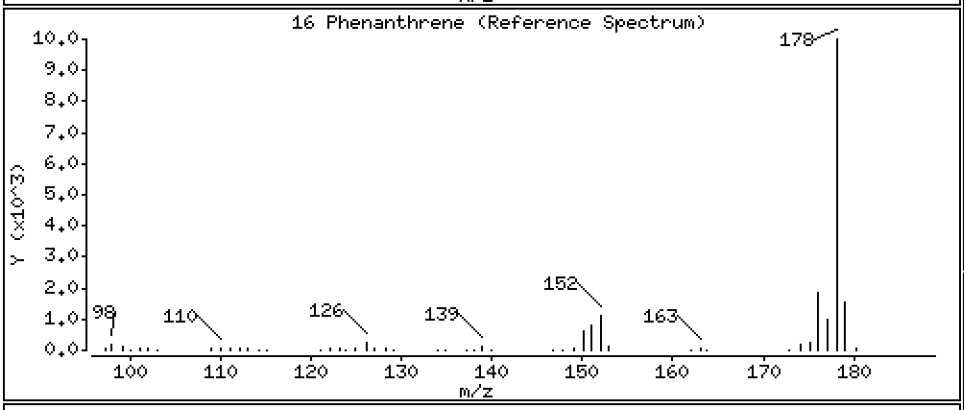
Column diameter: 0.25

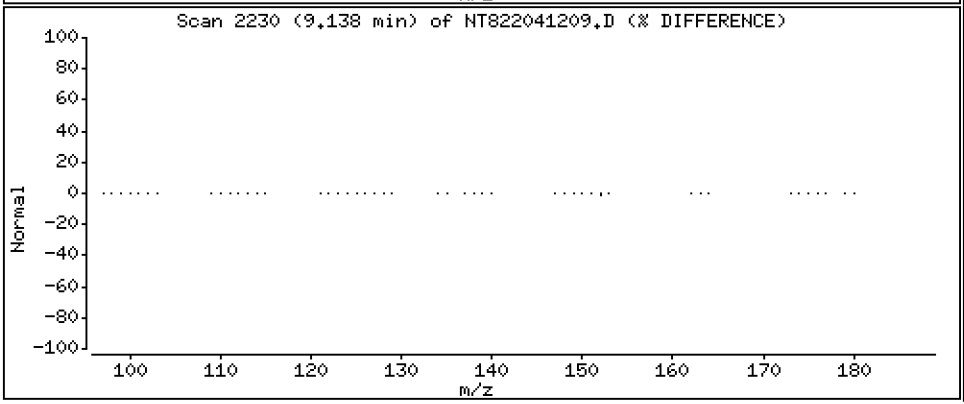
16 Phenanthrene

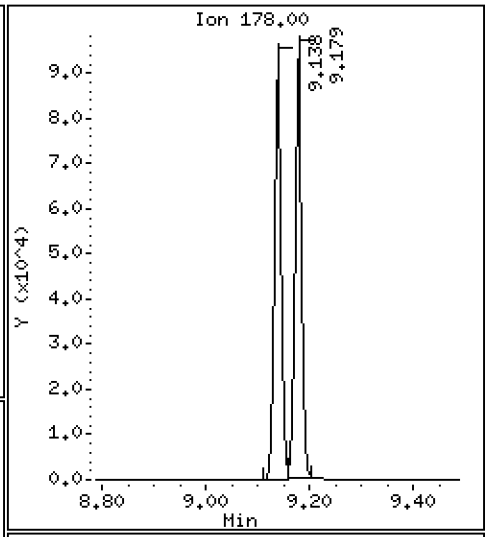
Concentration: 2.901 ug/L

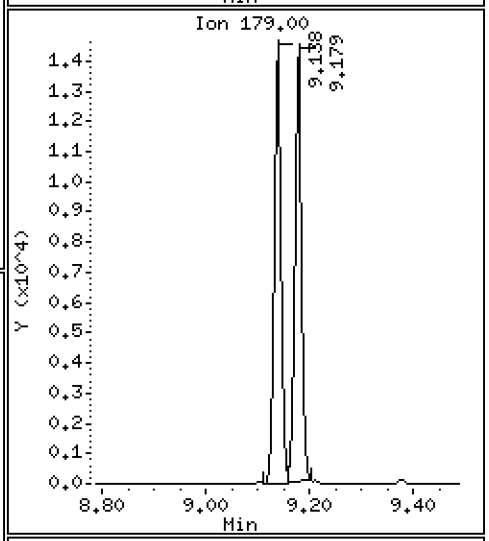


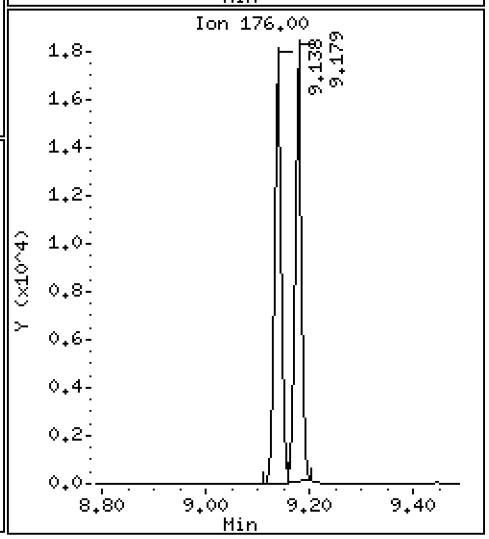












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

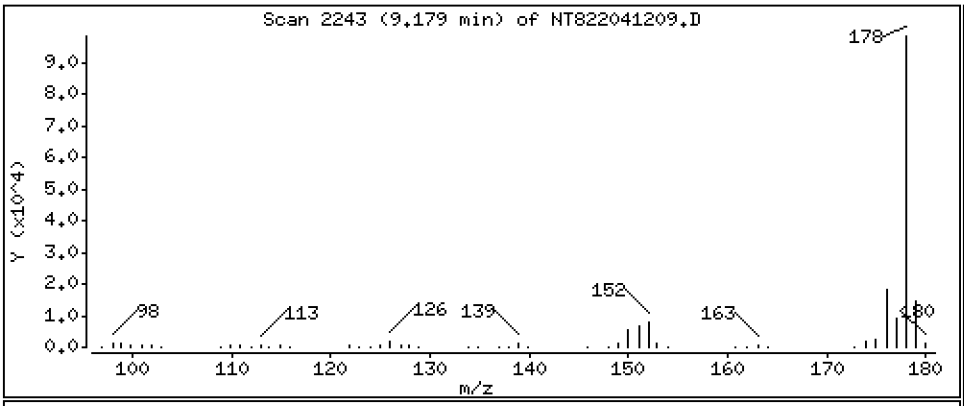
Operator: JZ

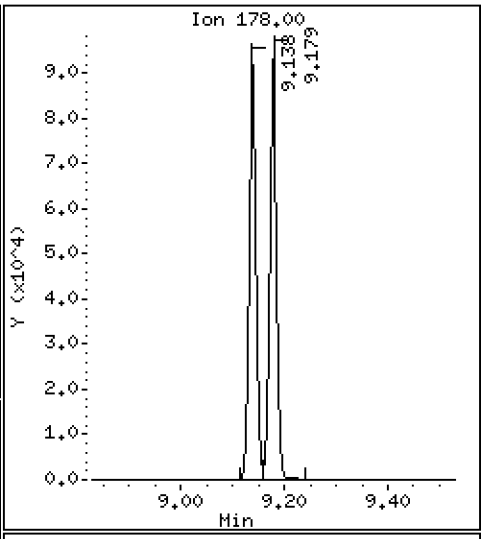
Column phase: Rxi-17sil

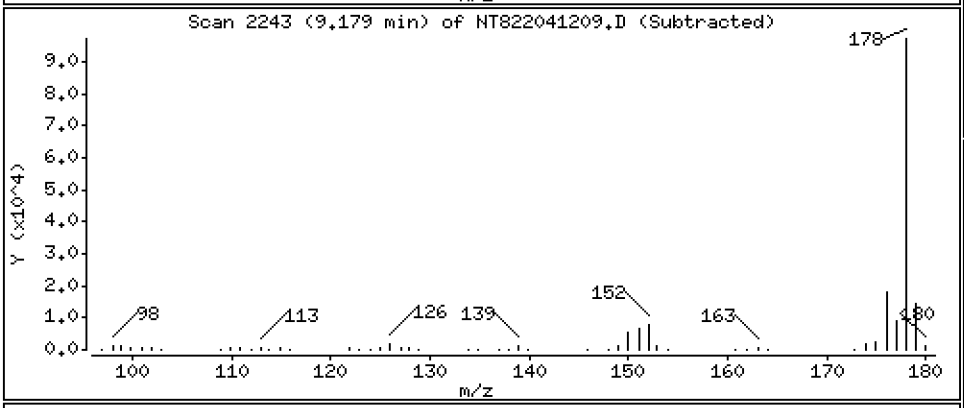
Column diameter: 0.25

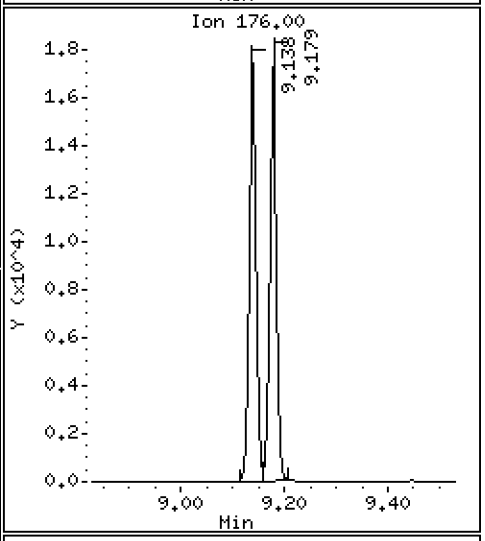
17 Anthracene

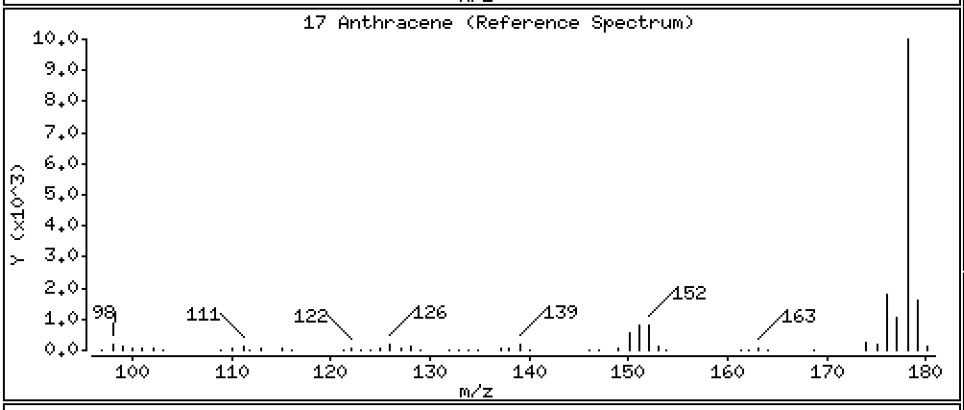
Concentration: 2.989 ug/L

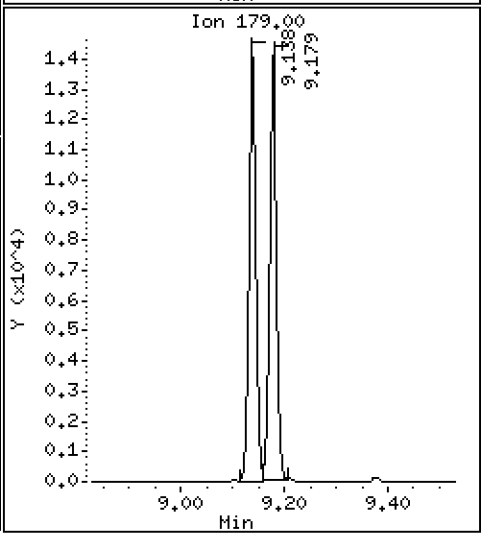


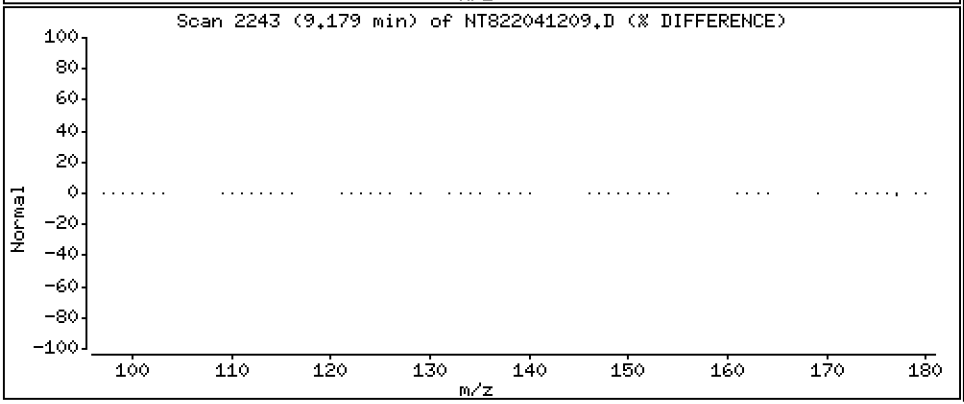












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

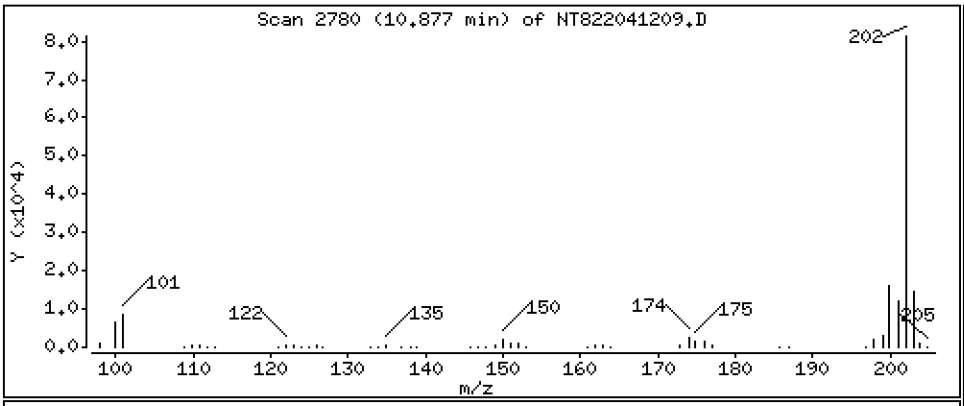
Operator: JZ

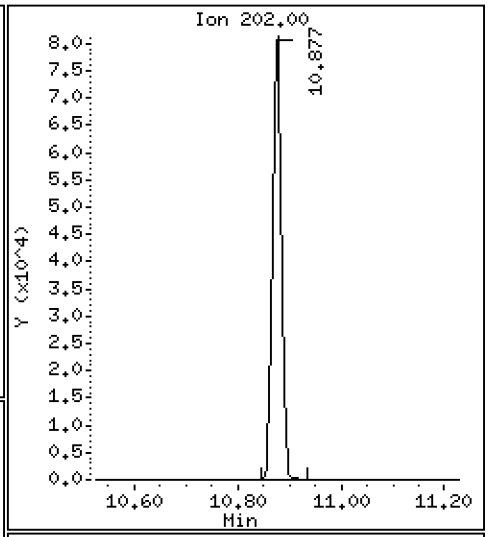
Column phase: Rxi-17sil

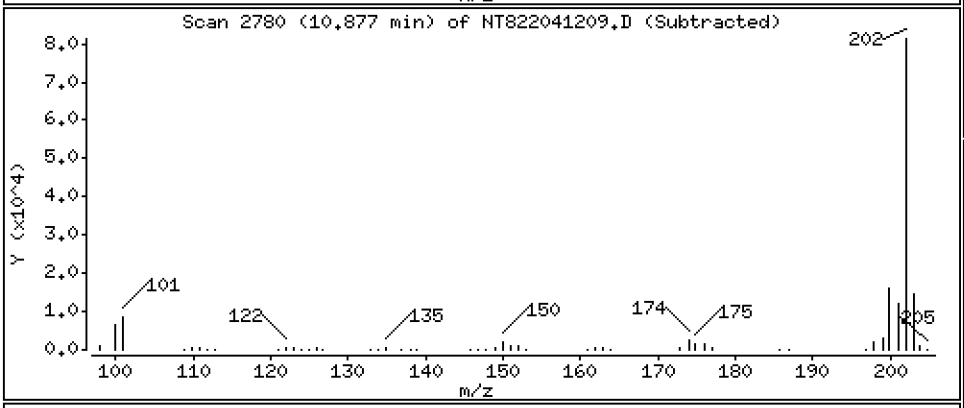
Column diameter: 0.25

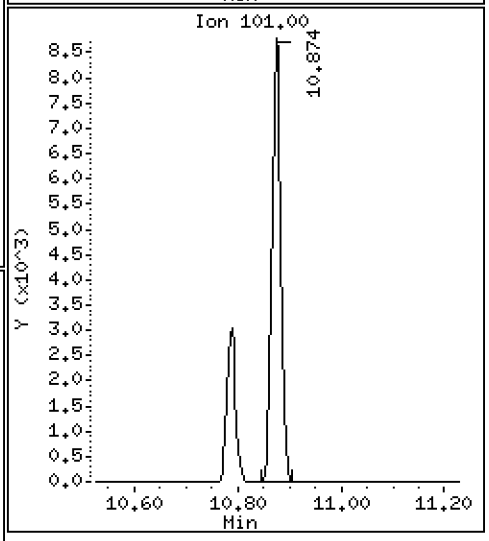
22 Fluoranthene

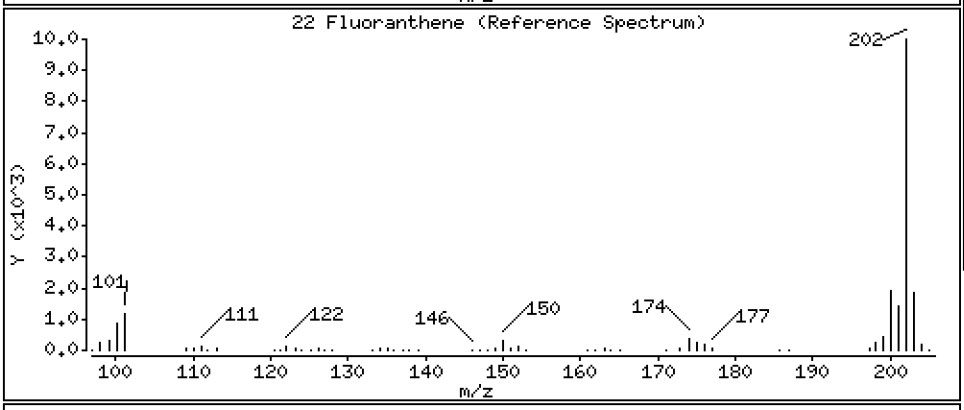
Concentration: 2.981 ug/L

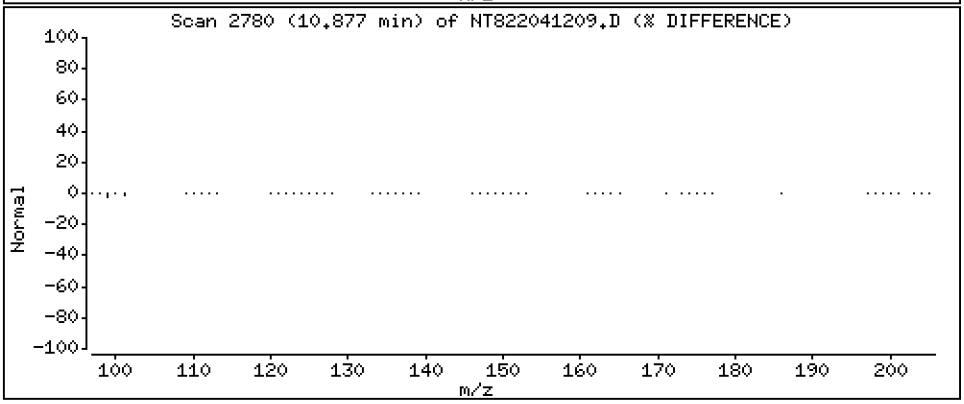












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

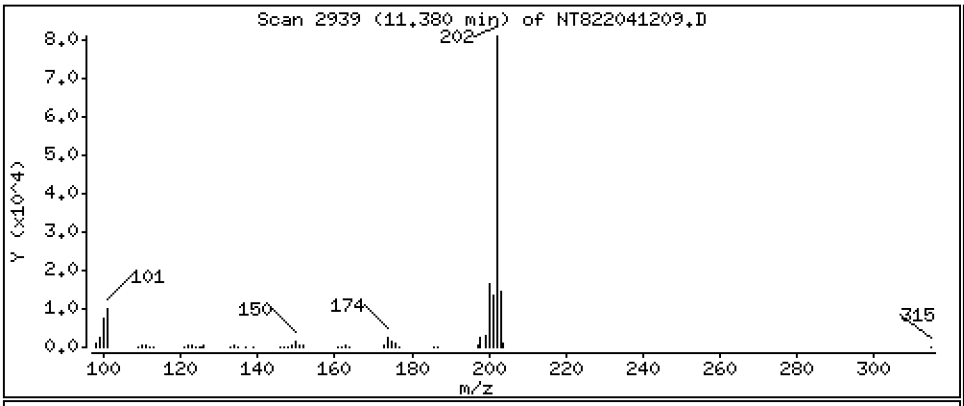
Operator: JZ

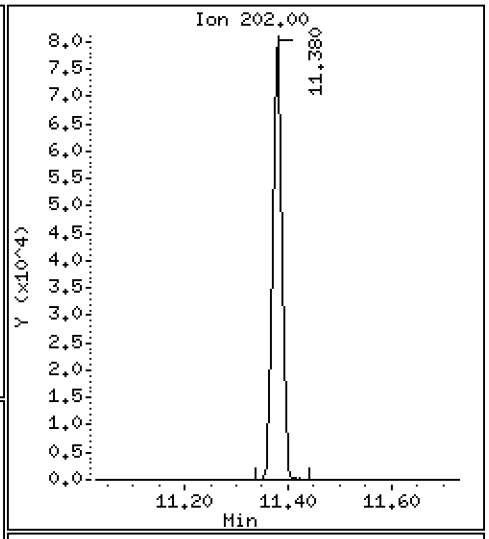
Column phase: Rxi-17sil

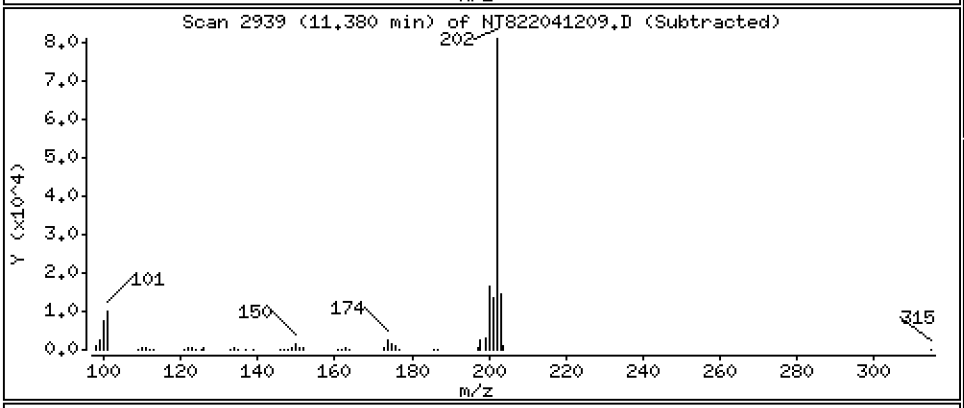
Column diameter: 0.25

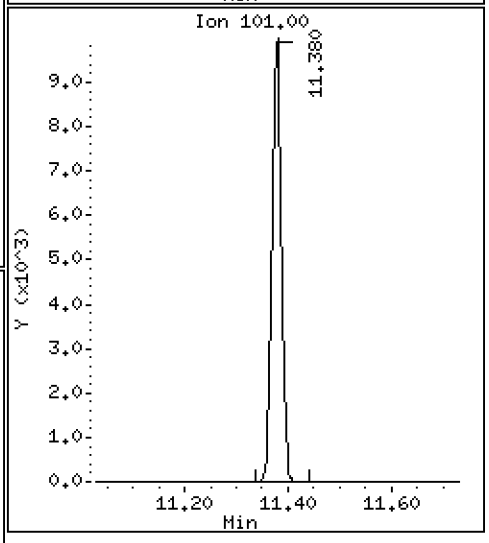
23 Pyrene

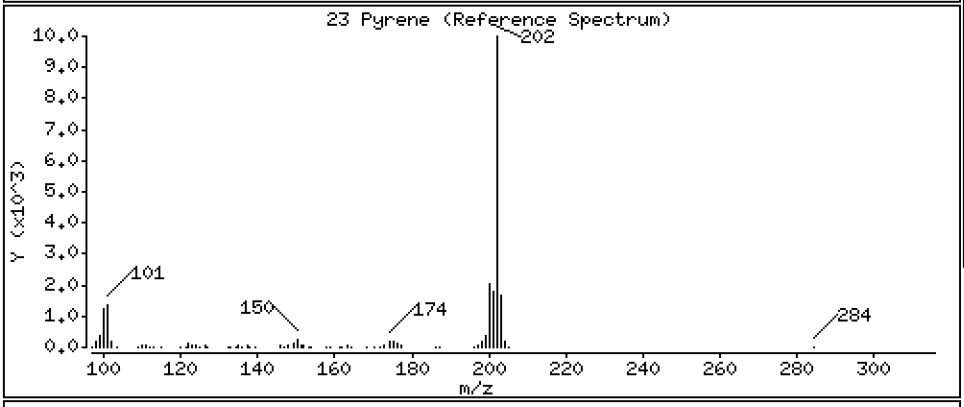
Concentration: 3.034 ug/L

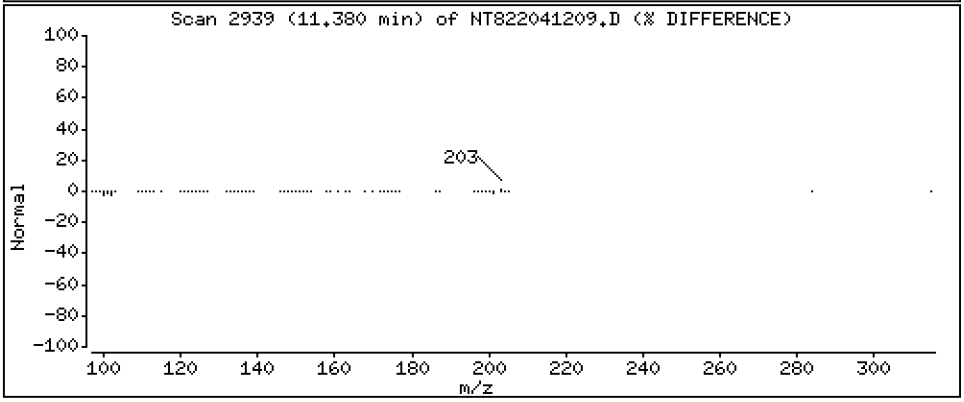












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

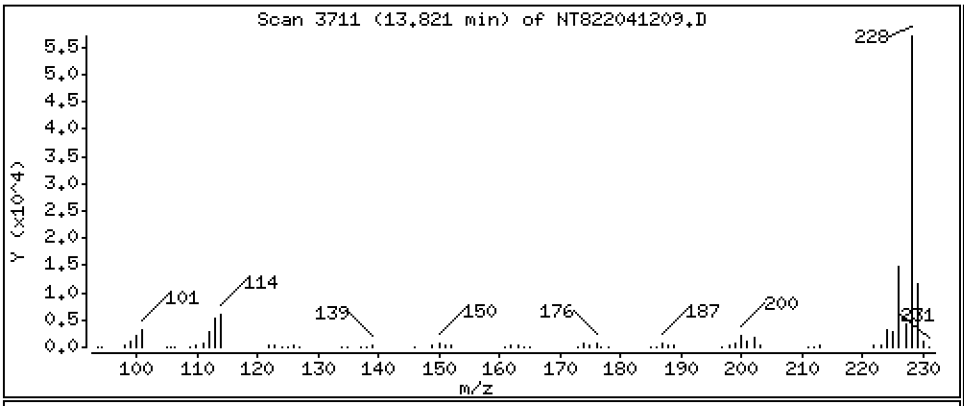
Operator: JZ

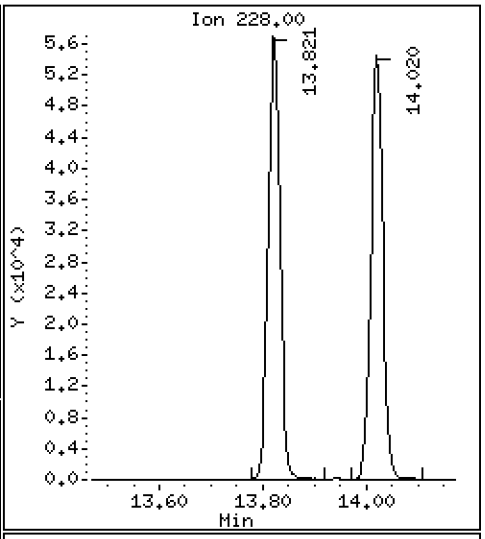
Column phase: Rxi-17sil

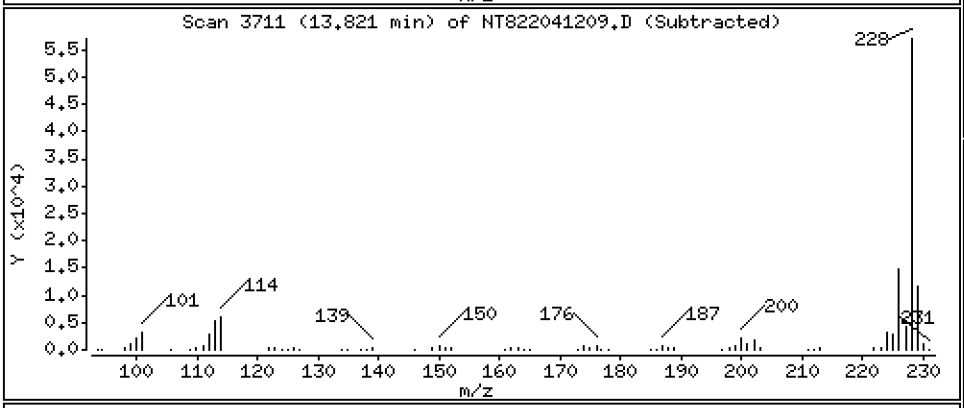
Column diameter: 0.25

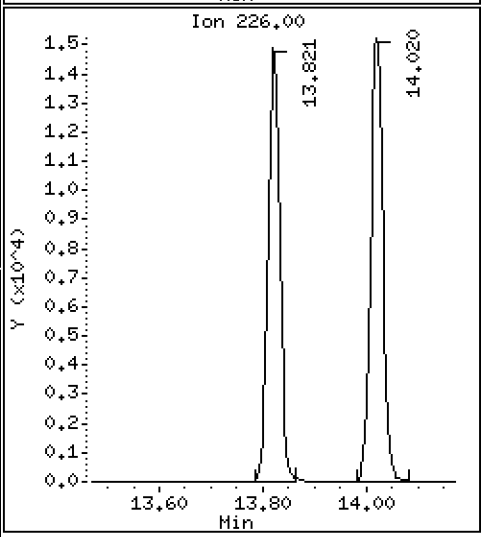
24 Benzo(a)anthracene

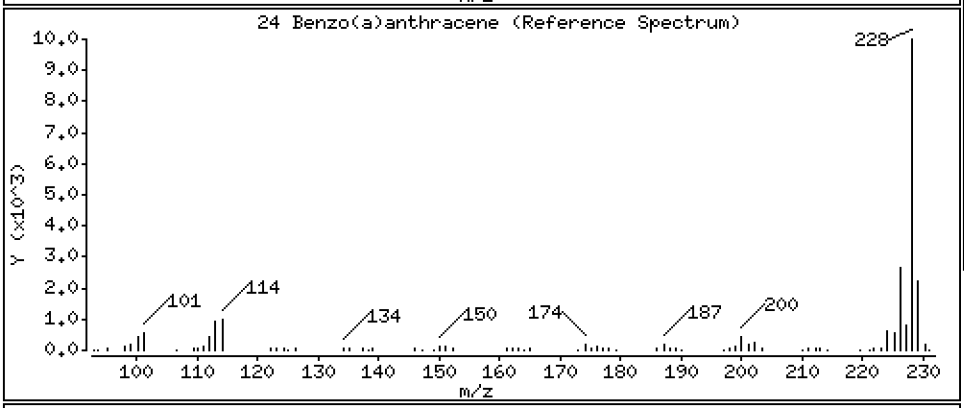
Concentration: 2.982 ug/L

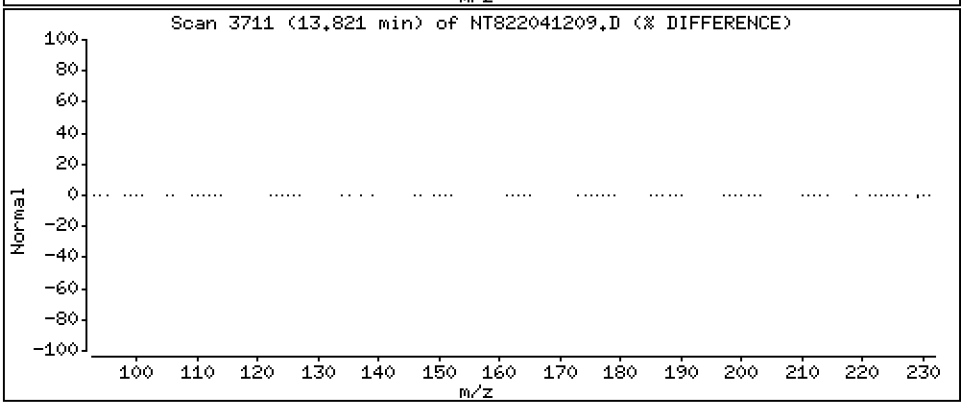












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Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

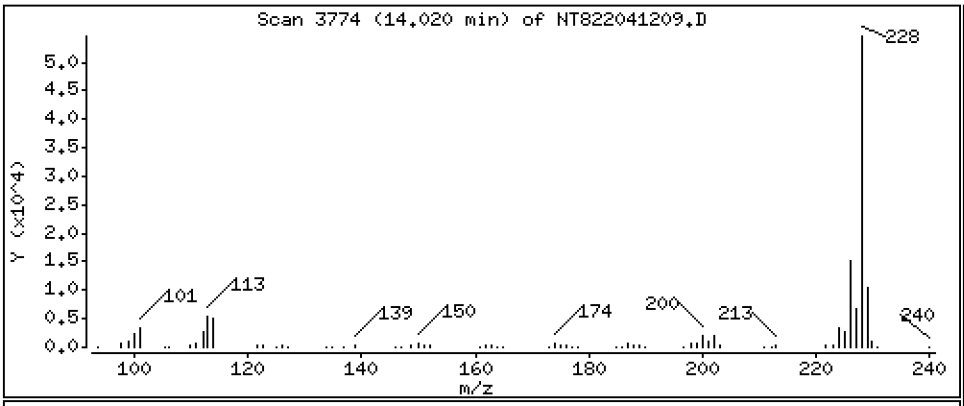
Operator: JZ

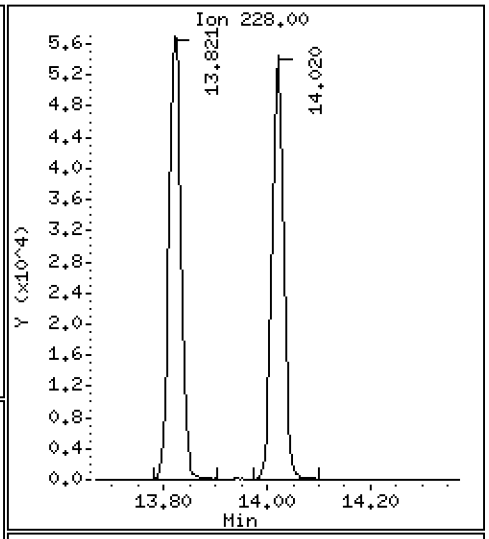
Column phase: Rxi-17sil

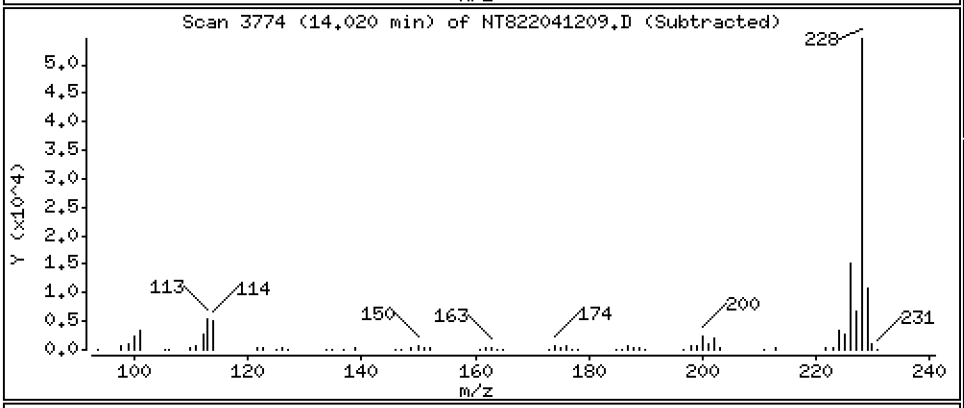
Column diameter: 0.25

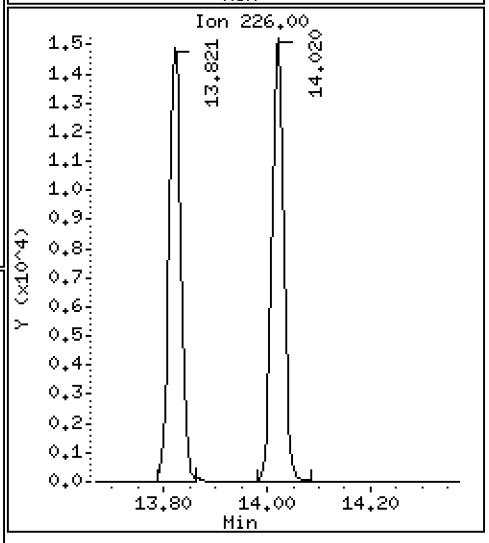
27 Chrysene

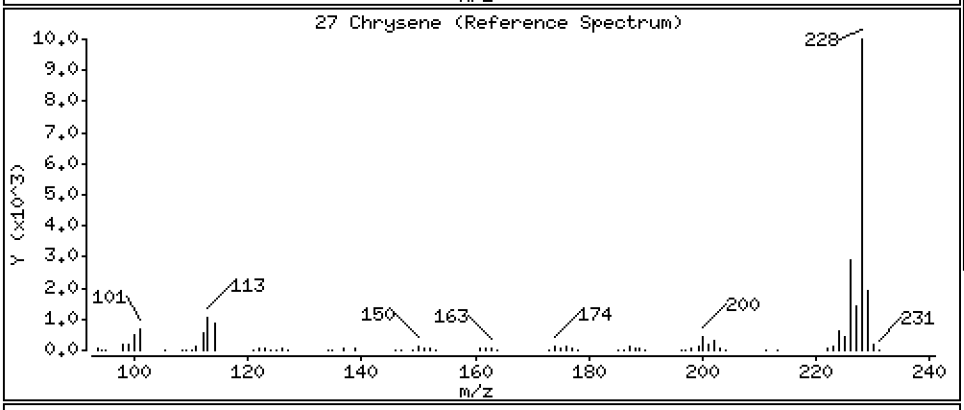
Concentration: 2.917 ug/L

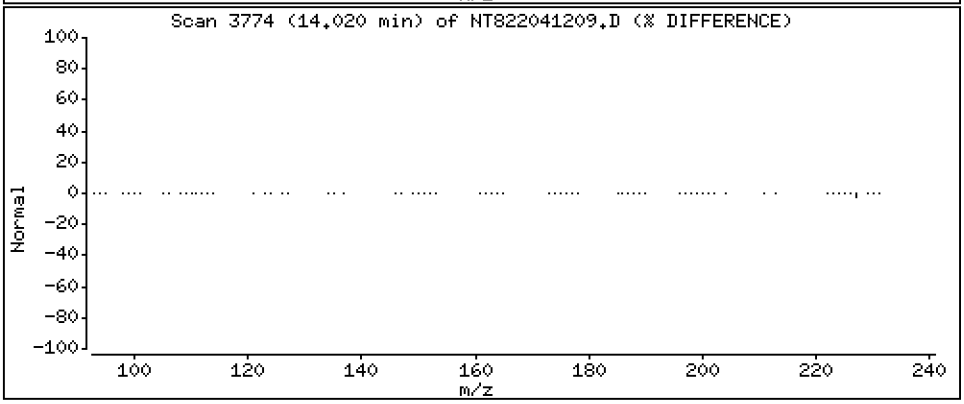












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Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

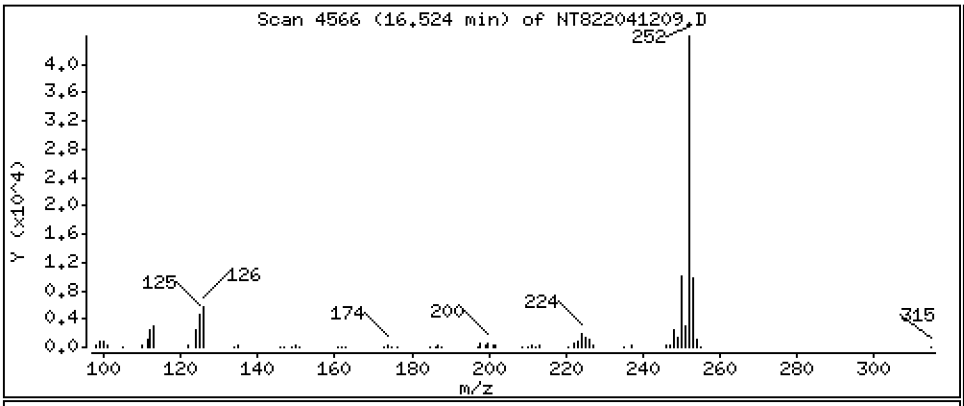
Operator: JZ

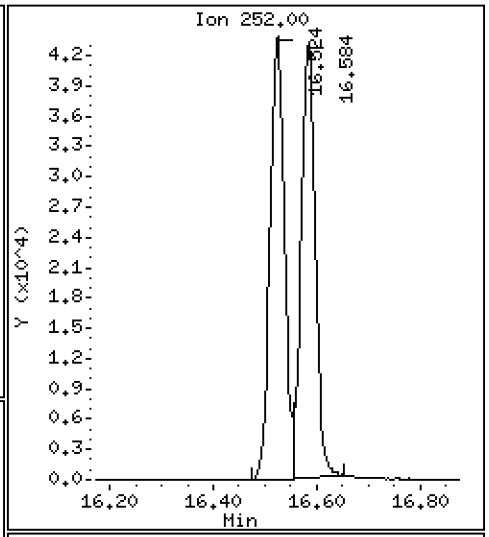
Column phase: Rxi-17sil

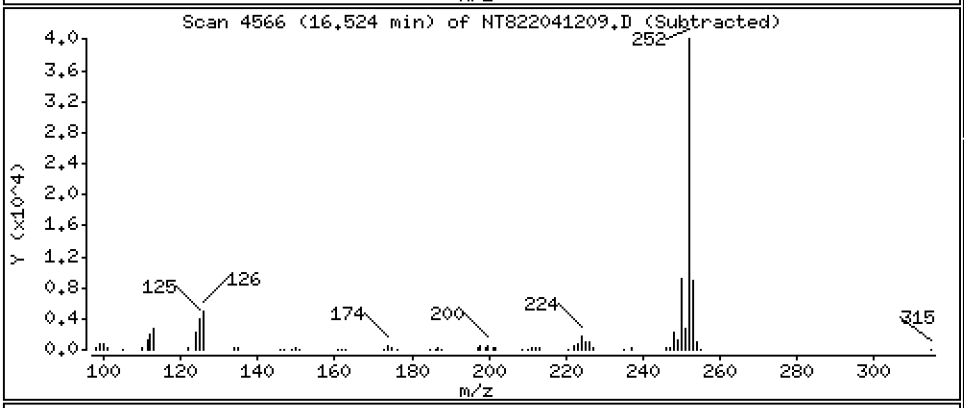
Column diameter: 0.25

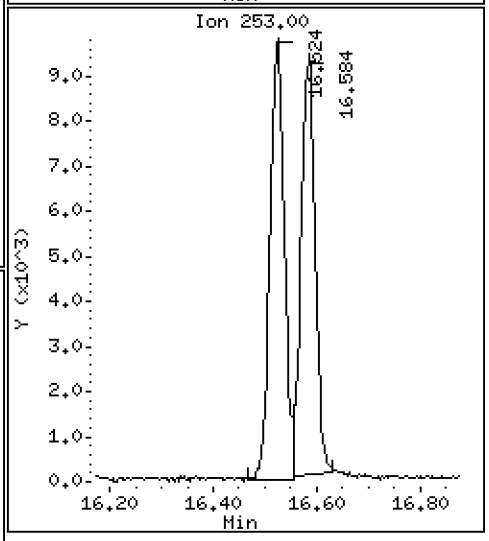
28 Benzo(b)fluoranthene

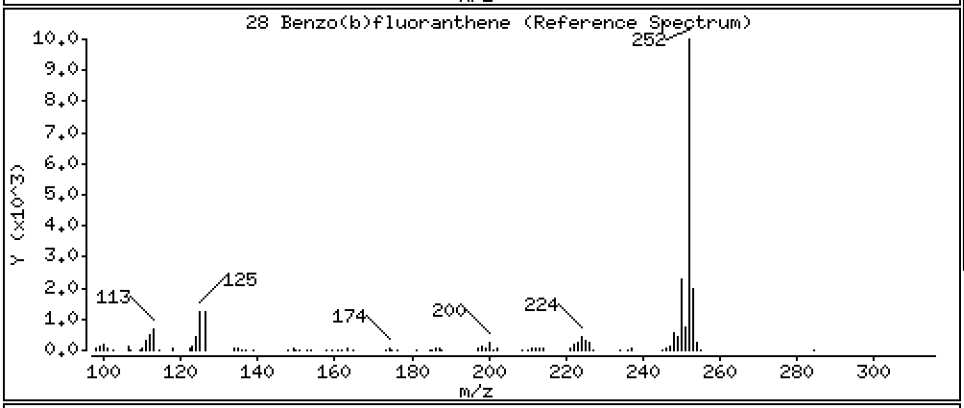
Concentration: 2.888 ug/L

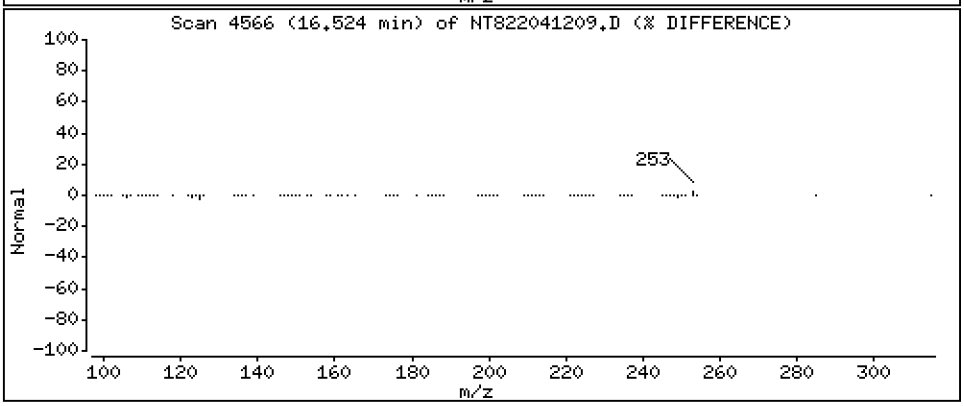












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

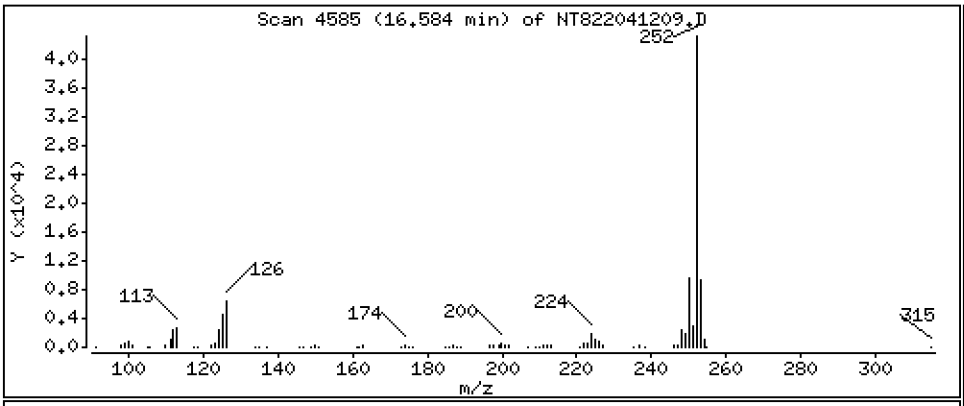
Operator: JZ

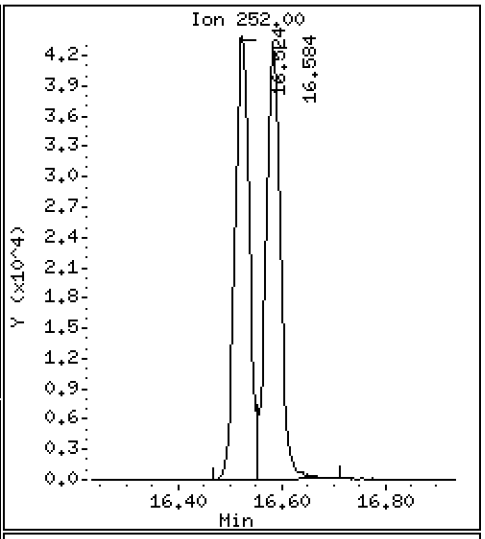
Column phase: Rxi-17sil

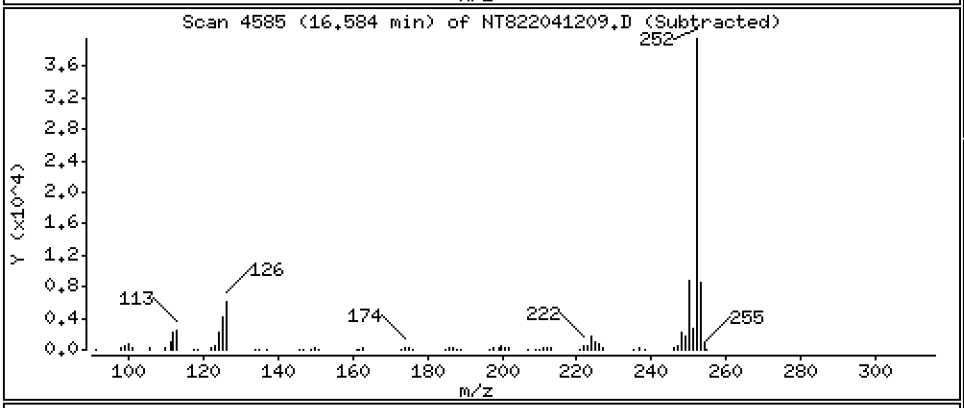
Column diameter: 0.25

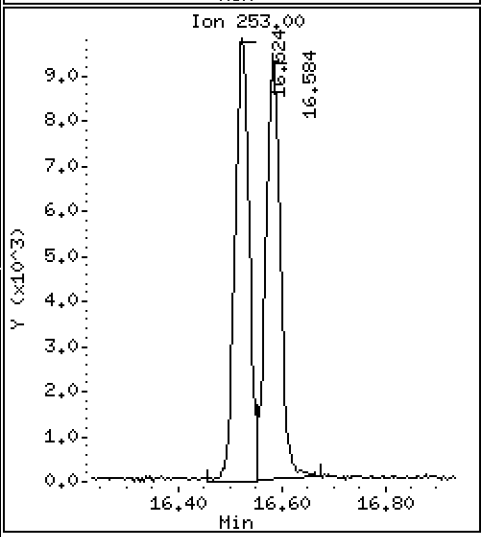
29 Benzo(k)fluoranthene

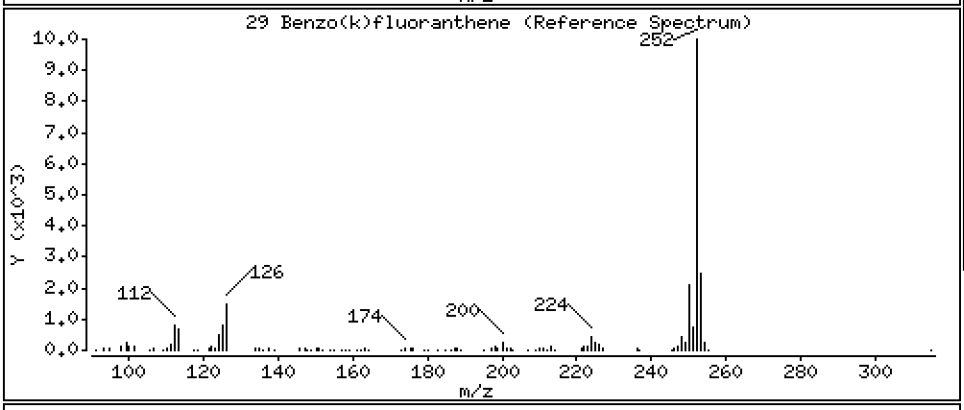
Concentration: 3.083 ug/L

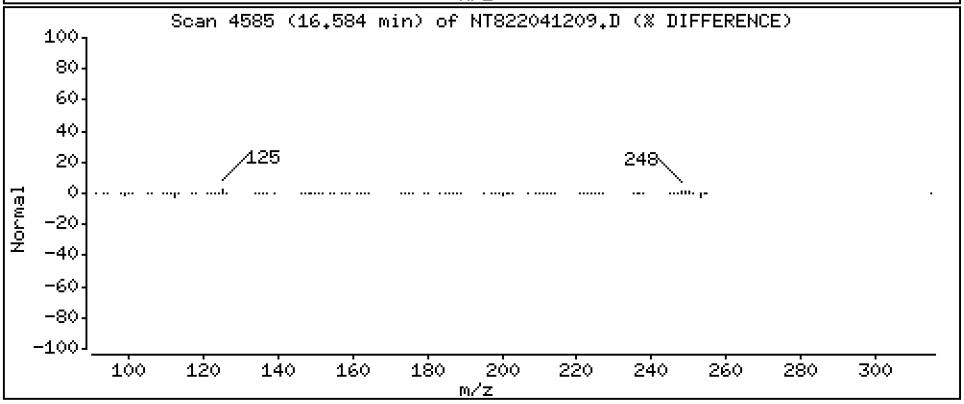












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

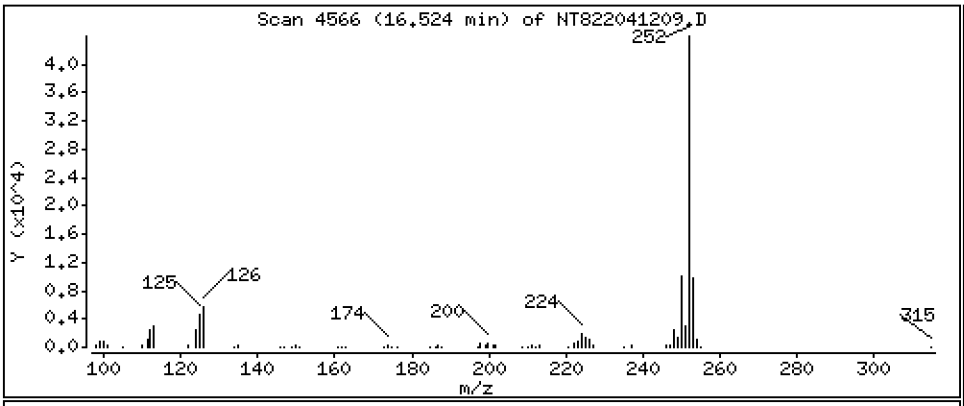
Operator: JZ

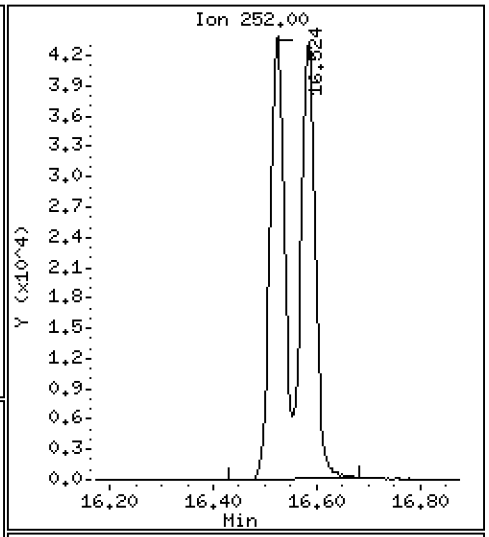
Column phase: Rxi-17sil

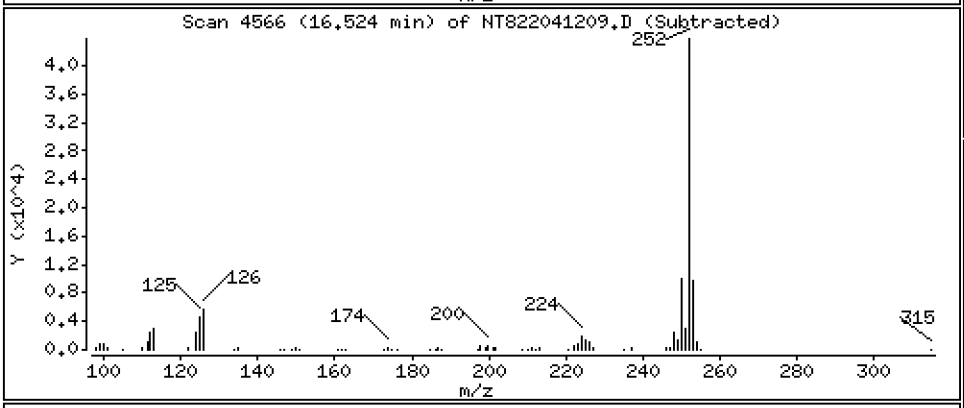
Column diameter: 0.25

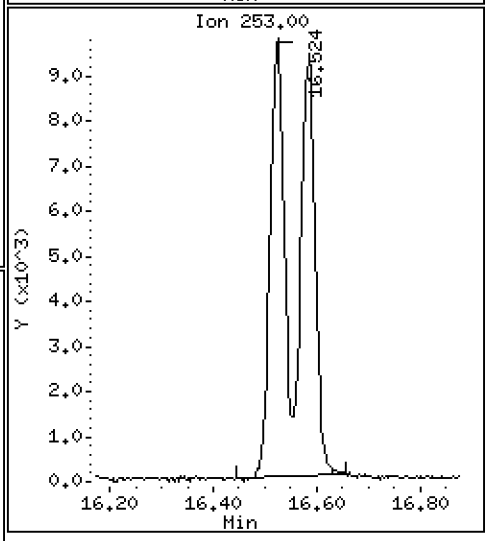
31 Total Benzofluoranthenes

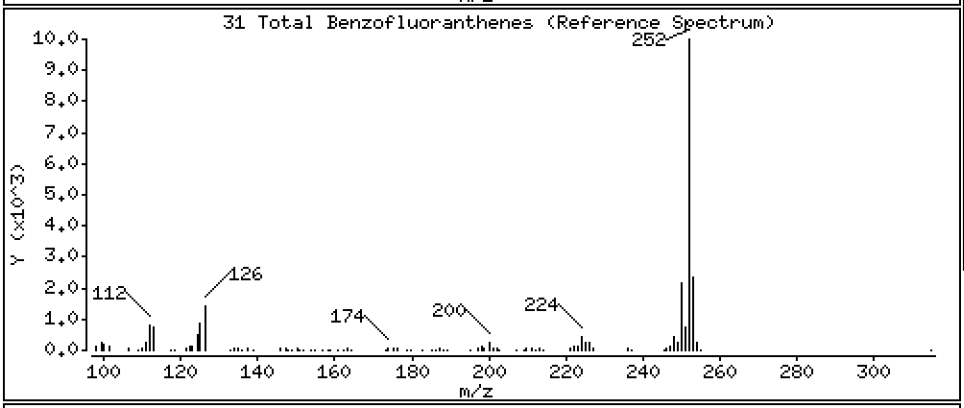
Concentration: 6.100 ug/L

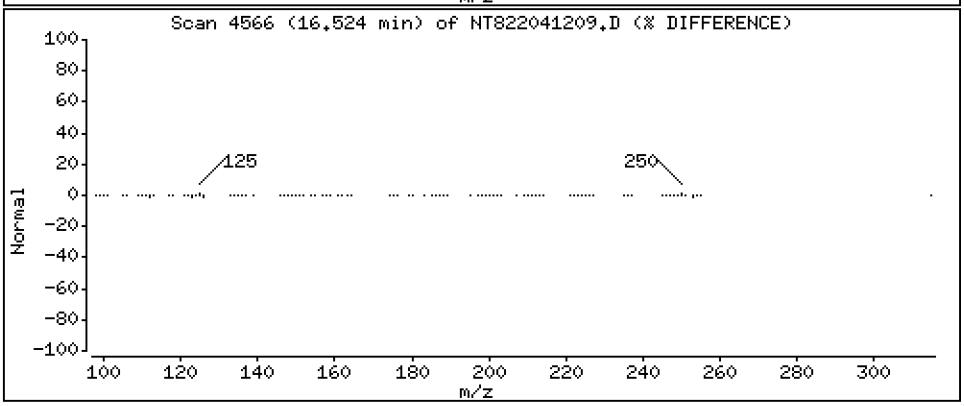












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

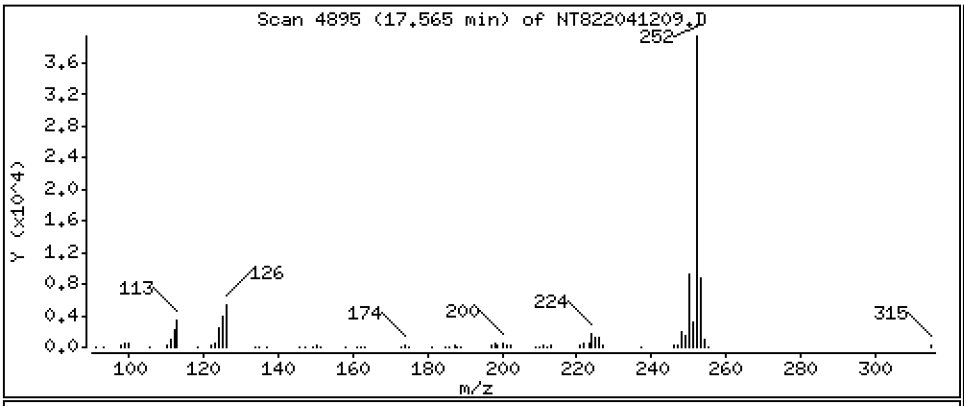
Operator: JZ

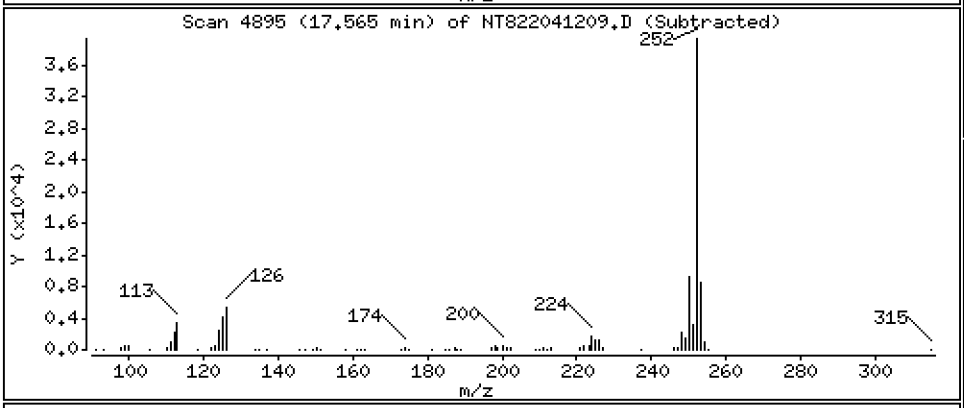
Column phase: Rxi-17sil

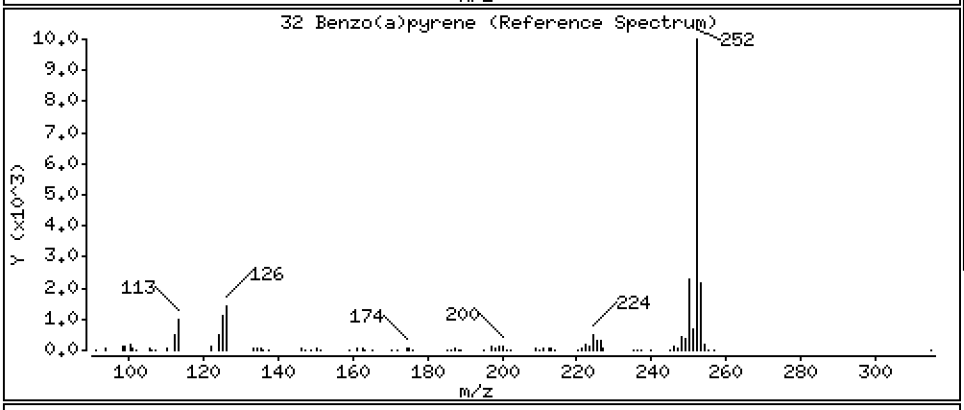
Column diameter: 0.25

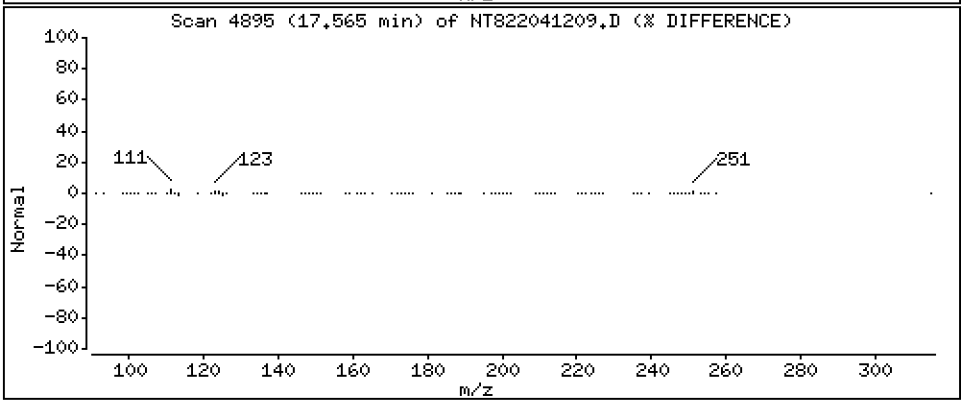
32 Benzo(a)pyrene

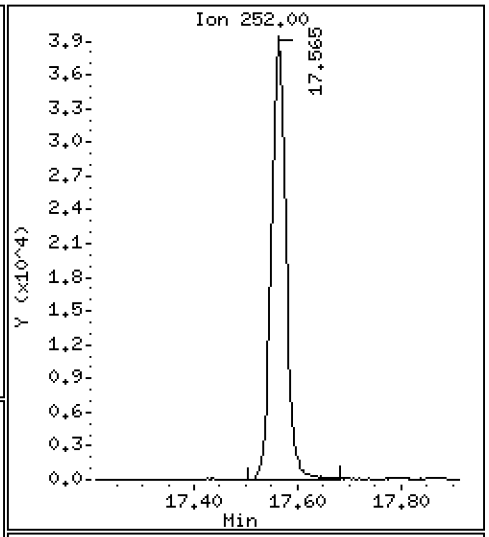
Concentration: 3.163 ug/L

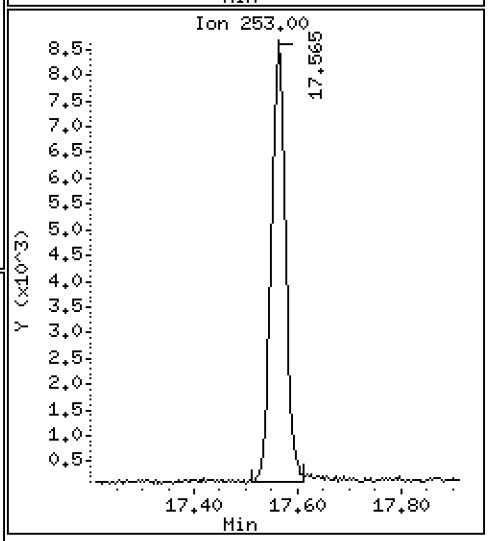












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

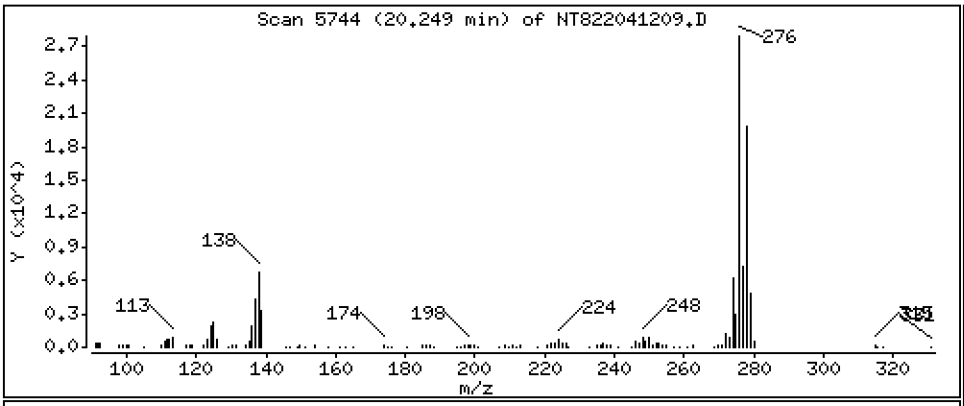
Operator: JZ

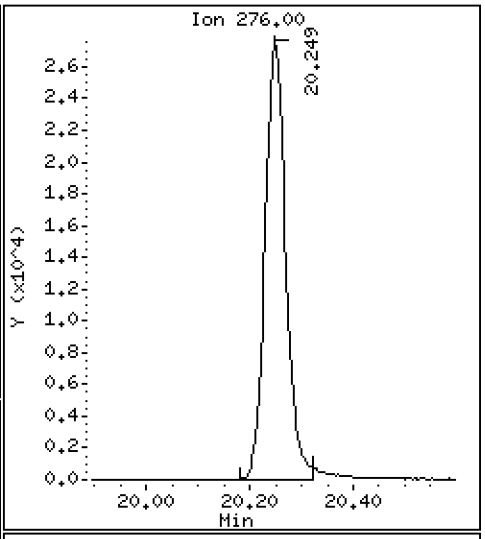
Column phase: Rxi-17sil

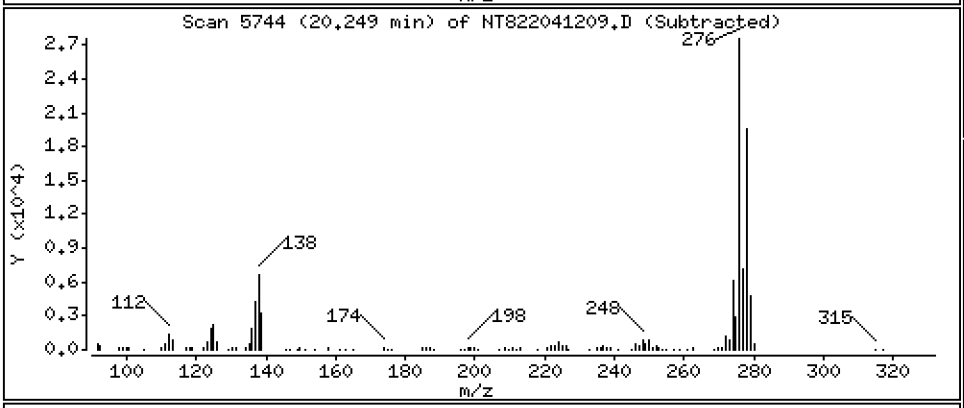
Column diameter: 0.25

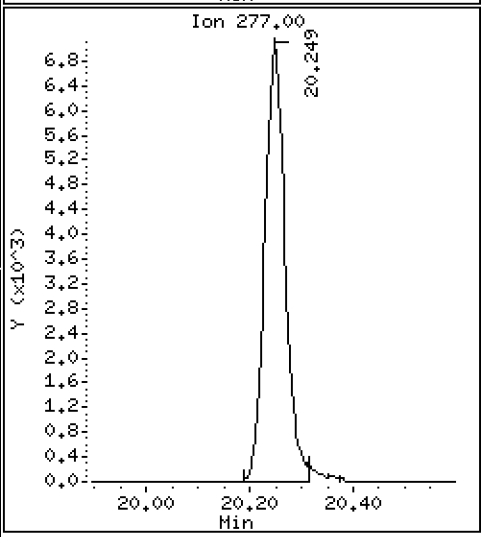
37 Indeno(1,2,3-cd)pyrene

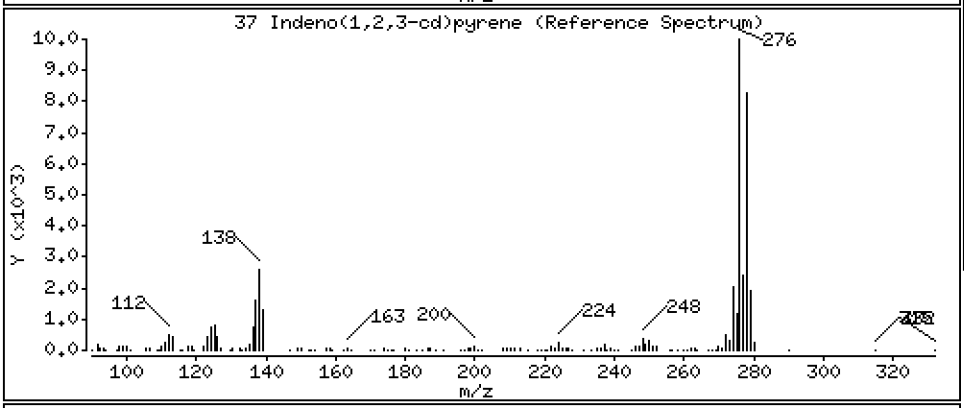
Concentration: 3.174 ug/L

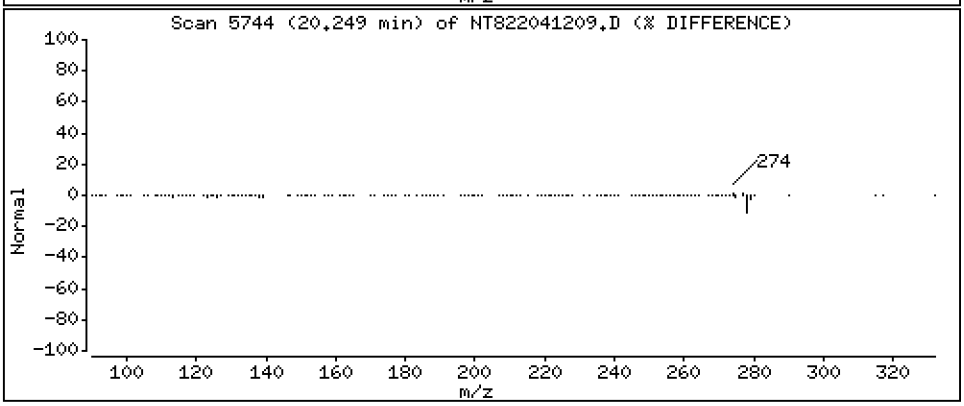












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

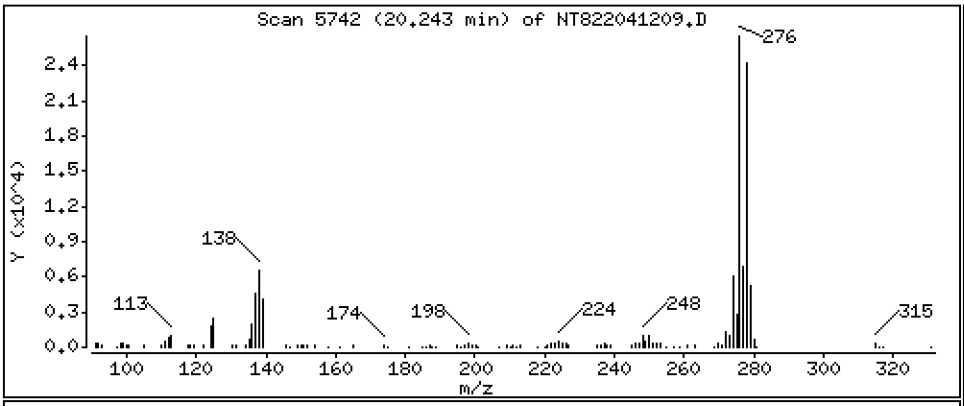
Operator: JZ

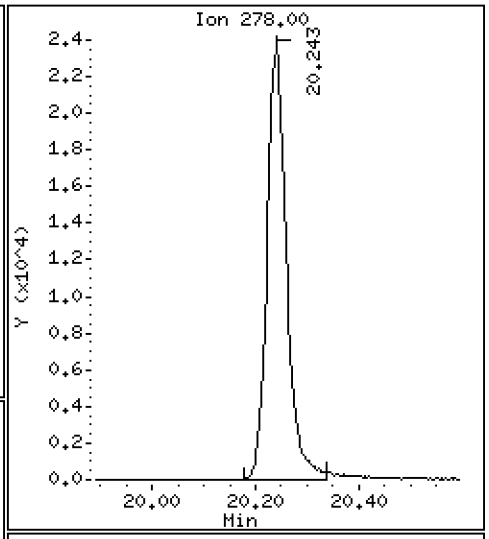
Column phase: Rxi-17sil

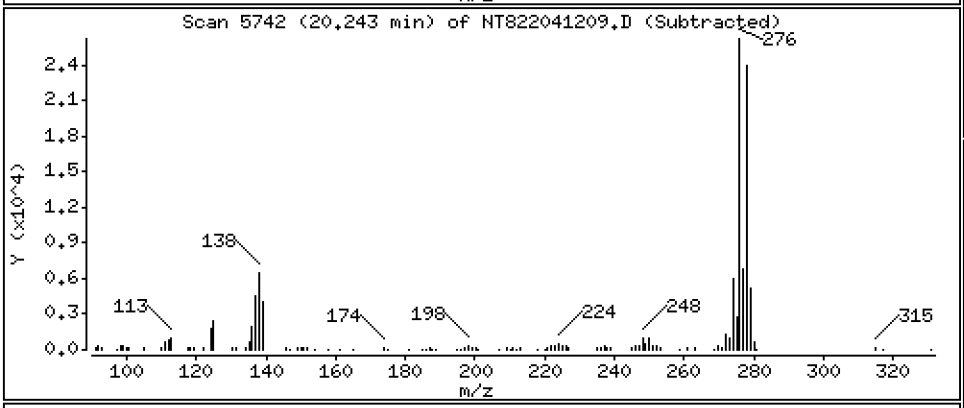
Column diameter: 0.25

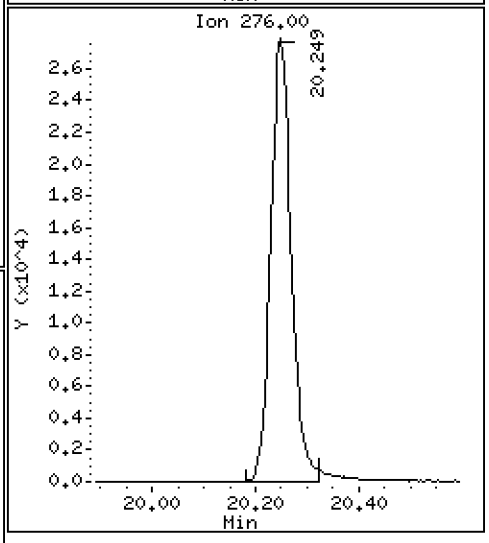
38 Dibenzo(a,h)anthracene

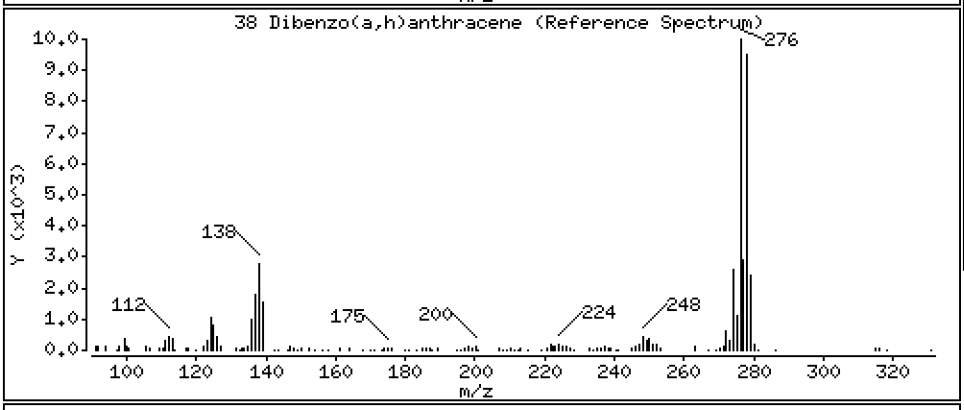
Concentration: 2.986 ug/L

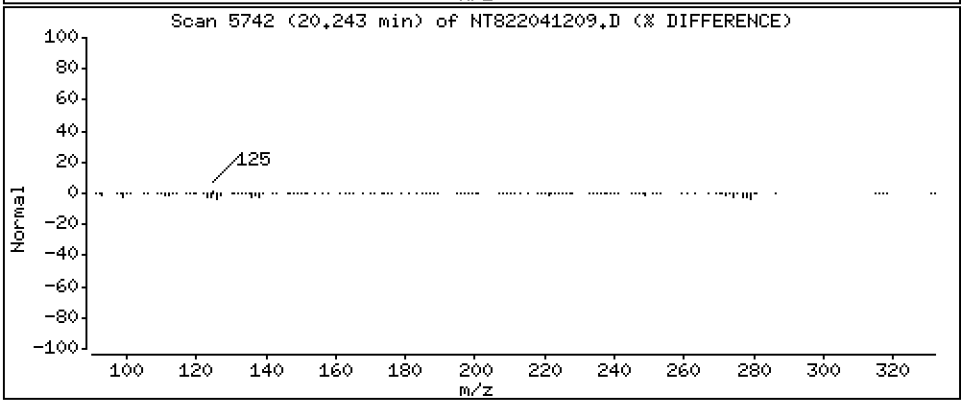












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

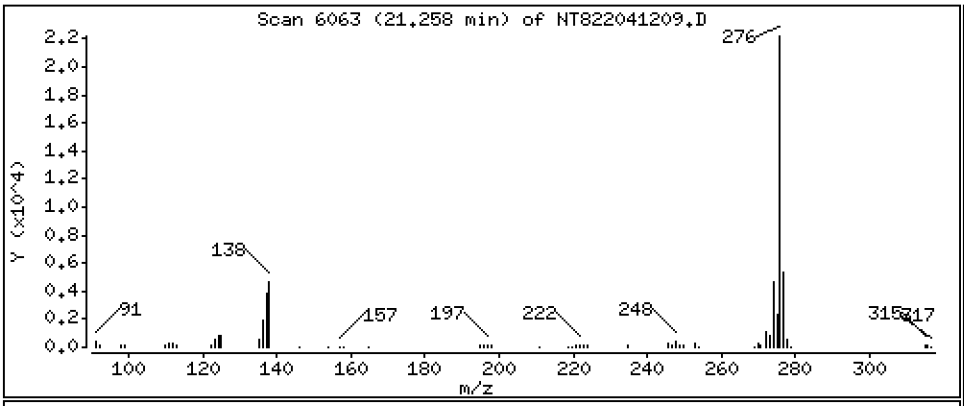
Operator: JZ

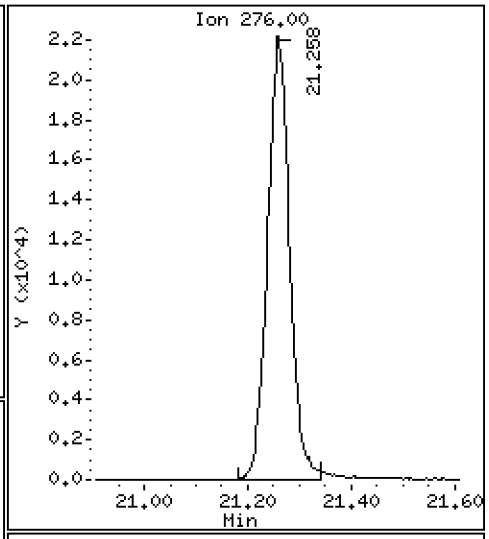
Column phase: Rxi-17sil

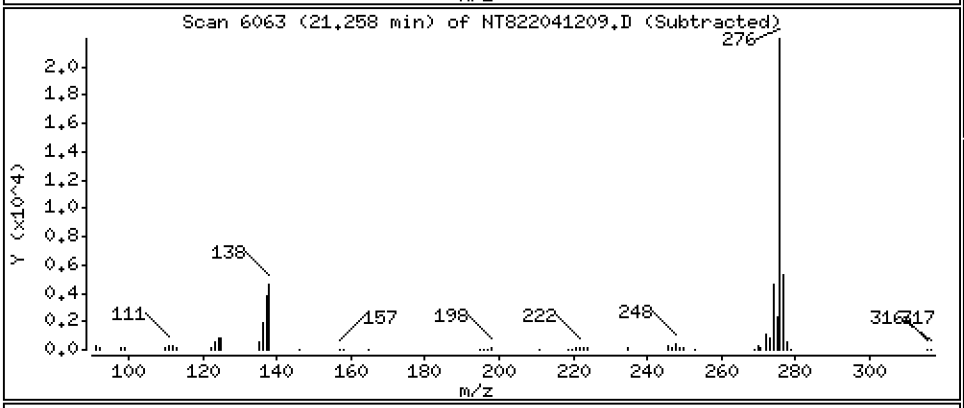
Column diameter: 0.25

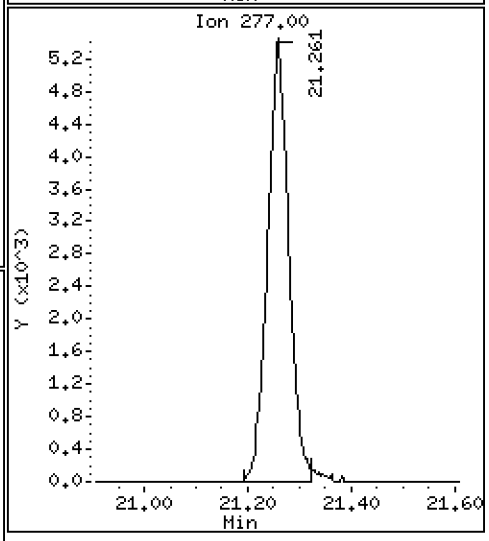
39 Benzo(g,h,i)perylene

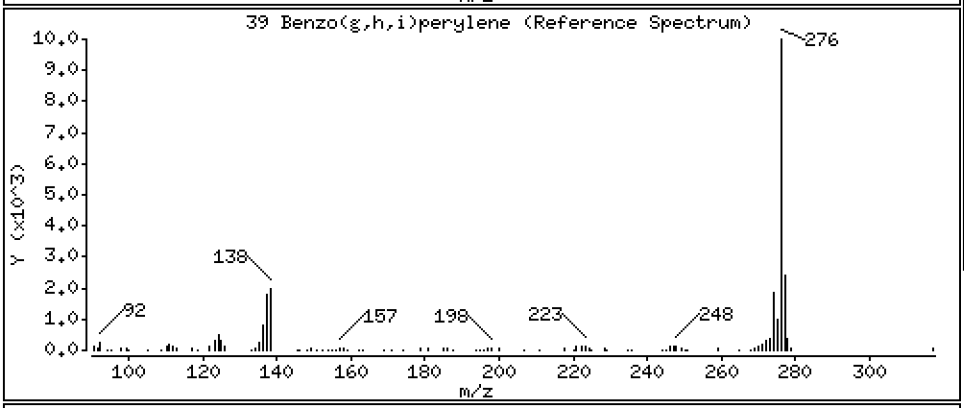
Concentration: 2.921 ug/L

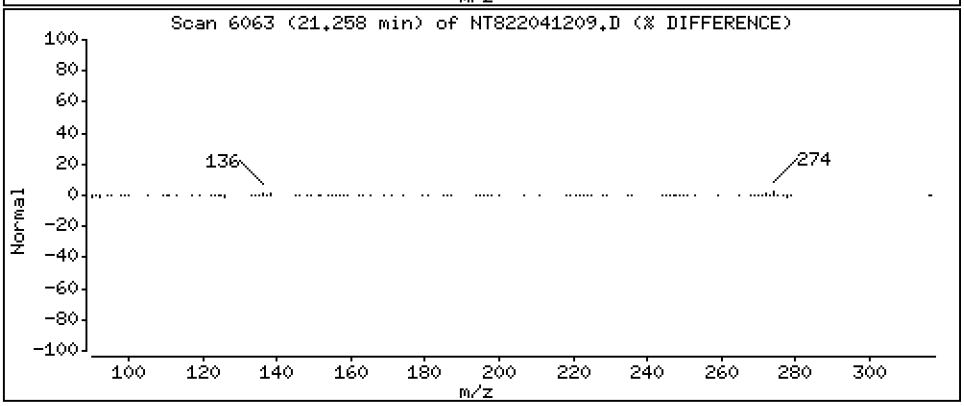












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20220412.b\NT822041209.D
Lab Smp Id: SKD0159-SCV1
Inj Date : 12-APR-2022 16:16
Operator : JZ Inst ID: nt8.i
Smp Info : SCV220411,
Misc Info : 22-
Comment   : 1ul Injection
Method   : \\target\share\chem3\nt8.i\20220412.b\FSIMPNA220411.m
Meth Date : 26-Apr-2022 11:26 jianqing Quant Type: ISTD
Cal Date : 12-APR-2022 15:49 Cal File: NT822041208.D
Als bottle: 9 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnascv.sub
Target Version: 4.14
Processing Host: JIANQING-202105

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	500.000	Volume of final extract (uL)
Vo	500.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
*	1 Naphthalene-d8	136	4.799	4.799	(1.000)	54442	2.00000	
	2 Naphthalene	128	4.828	4.828	(1.006)	77605	2.81321	2.813
$	3 2-Methylnaphthalene-d10	152	Compound Not Detected.					
	4 2-Methylnaphthalene	141	5.574	5.574	(1.161)	45640	2.90766	2.908
	5 1-methylnaphthalene	141	5.770	5.770	(1.202)	46068	3.00121	3.001
	9 Acenaphthylene	152	6.965	6.965	(0.984)	84792	2.96909	2.969
*	10 Acenaphthene-d10	164	7.076	7.076	(1.000)	33053	2.00000	
	11 Acenaphthene	153	7.126	7.126	(1.007)	50658	2.67341	2.673
	12 Dibenzofuran	168	7.275	7.275	(1.028)	84865	3.19228	3.192
	14 Fluorene	166	7.749	7.749	(1.095)	60386	2.82353	2.824
*	15 Phenanthrene-d10	188	9.103	9.103	(1.000)	57165	2.00000	
	16 Phenanthrene	178	9.138	9.137	(1.004)	87974	2.90100	2.901
	17 Anthracene	178	9.179	9.179	(1.008)	86805	2.98854	2.989
	22 Fluoranthene	202	10.877	10.877	(1.195)	98897	2.98056	2.981
$	21 Fluoranthene-d10	212	Compound Not Detected.					
	23 Pyrene	202	11.379	11.379	(0.816)	101285	3.03352	3.034(M)
	24 Benzo(a)anthracene	228	13.820	13.820	(0.991)	93097	2.98161	2.982
*	25 Chrysene-d12	240	13.947	13.947	(1.000)	49400	2.00000	
	27 Chrysene	228	14.020	14.020	(1.005)	87014	2.91655	2.917
	28 Benzo(b)fluoranthene	252	16.524	16.524	(0.929)	86821	2.88824	2.888
	29 Benzo(k)fluoranthene	252	16.584	16.584	(0.932)	85979	3.08332	3.083
	31 Total Benzofluoranthenes	252	16.524	16.524	(0.929)	169131	6.10024	6.100(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	32 Benzo(a)pyrene	252	17.564	17.561	(0.987)	78493	3.16331	3.163
*	33 Perylene-d12	264	17.792	17.795	(1.000)	42338	2.00000	
	37 Indeno(1,2,3-cd)pyrene	276	20.249	20.245	(1.138)	77240	3.17379	3.174
$	36 Dibenzo(a,h)anthracene-d14	292	Compound Not Detected.					
	38 Dibenzo(a,h)anthracene	278	20.242	20.242	(1.138)	62700	2.98649	2.986
	39 Benzo(g,h,i)perylene	276	21.257	21.257	(1.195)	66126	2.92092	2.921
	35 Perylene	252	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt8.i
Lab File ID: NT822041209.D
Lab Smp Id: SKD0159-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: \\target\share\chem3\nt8.i\20220412.b\FSIMPNA220411.m
Misc Info: 22-

Calibration Date: 12-APR-2022
Calibration Time: 14:55
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	56136	28068	112272	54442	-3.02
10 Acenaphthene-d10	32604	16302	65208	33053	1.38
15 Phenanthrene-d10	58288	29144	116576	57165	-1.93
25 Chrysene-d12	52801	26401	105602	49400	-6.44
33 Perylene-d12	42745	21373	85490	42338	-0.95

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	4.80	4.30	5.30	4.80	0.00
10 Acenaphthene-d10	7.08	6.58	7.58	7.08	0.00
15 Phenanthrene-d10	9.10	8.60	9.60	9.10	0.00
25 Chrysene-d12	13.95	13.45	14.45	13.95	0.00
33 Perylene-d12	17.80	17.30	18.30	17.79	-0.02

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

REVIEW SUMMARY FOR FILE - NT822041209.D

Lab ID: SKD0159-SCV1
nt8.i, 20220412.b\FSIMPNA220411.m,   12-APR-2022 16:16

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

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

No RRT check performed

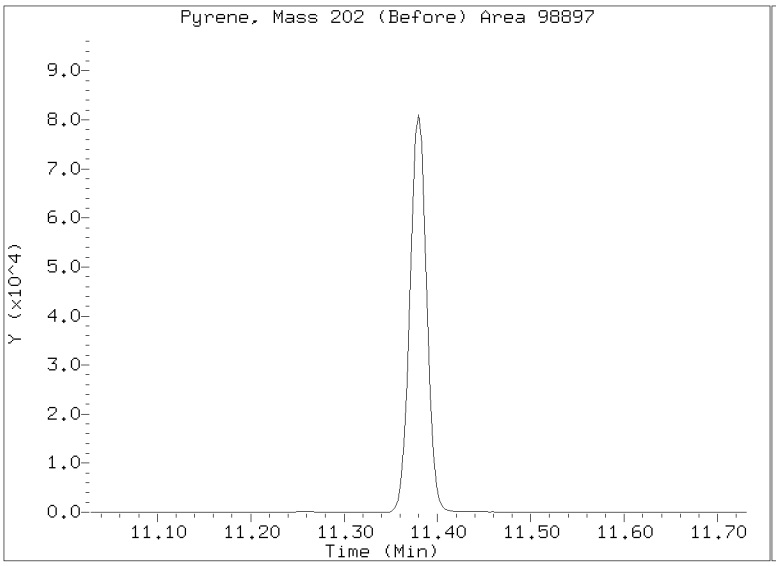
On Column LOD for nt8.i, 20220412.b\FSIMPNA220411.m, pnascv.sub = 0.0500

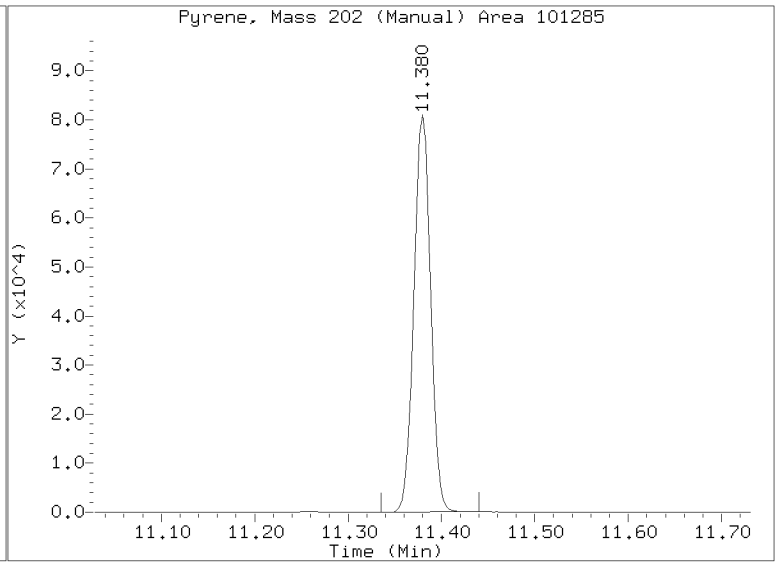
Exception: Benzo(b)fluoranthene 0.0300
Exception: Benzo(k)fluoranthene 0.0300
Exception: Total Benzofluoranthenes 0.0300
Exception: Fluoranthene-d10 (Surr) 0.0000

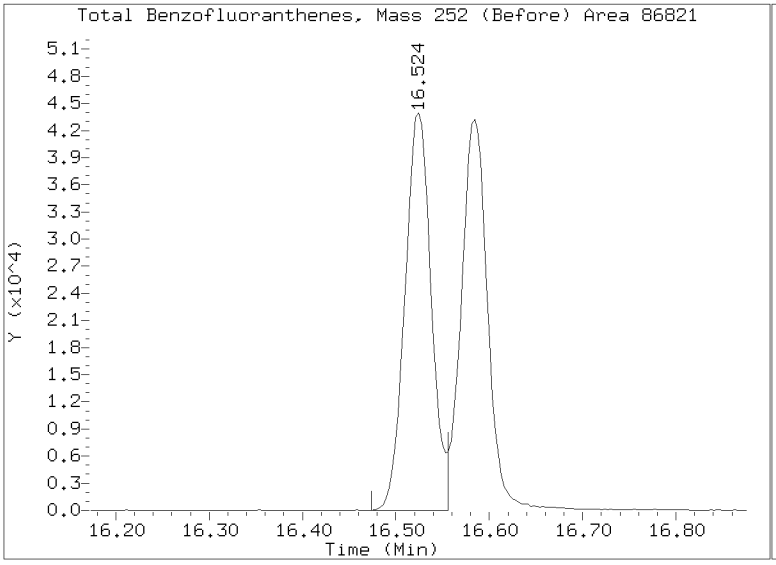
* Only compounds listed in the work order have been verified by the analyst *

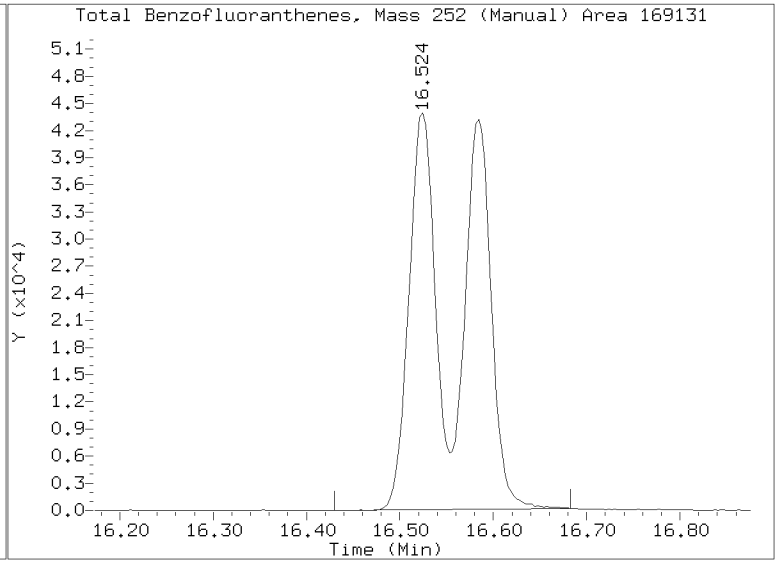
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20220412.b/NT822041209.D
Injection Date: 12-APR-2022 16:16
Lab ID:SKD0159-SCV1 Client ID:
Report Date: 04/26/2022 11:26









SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270E-SIM

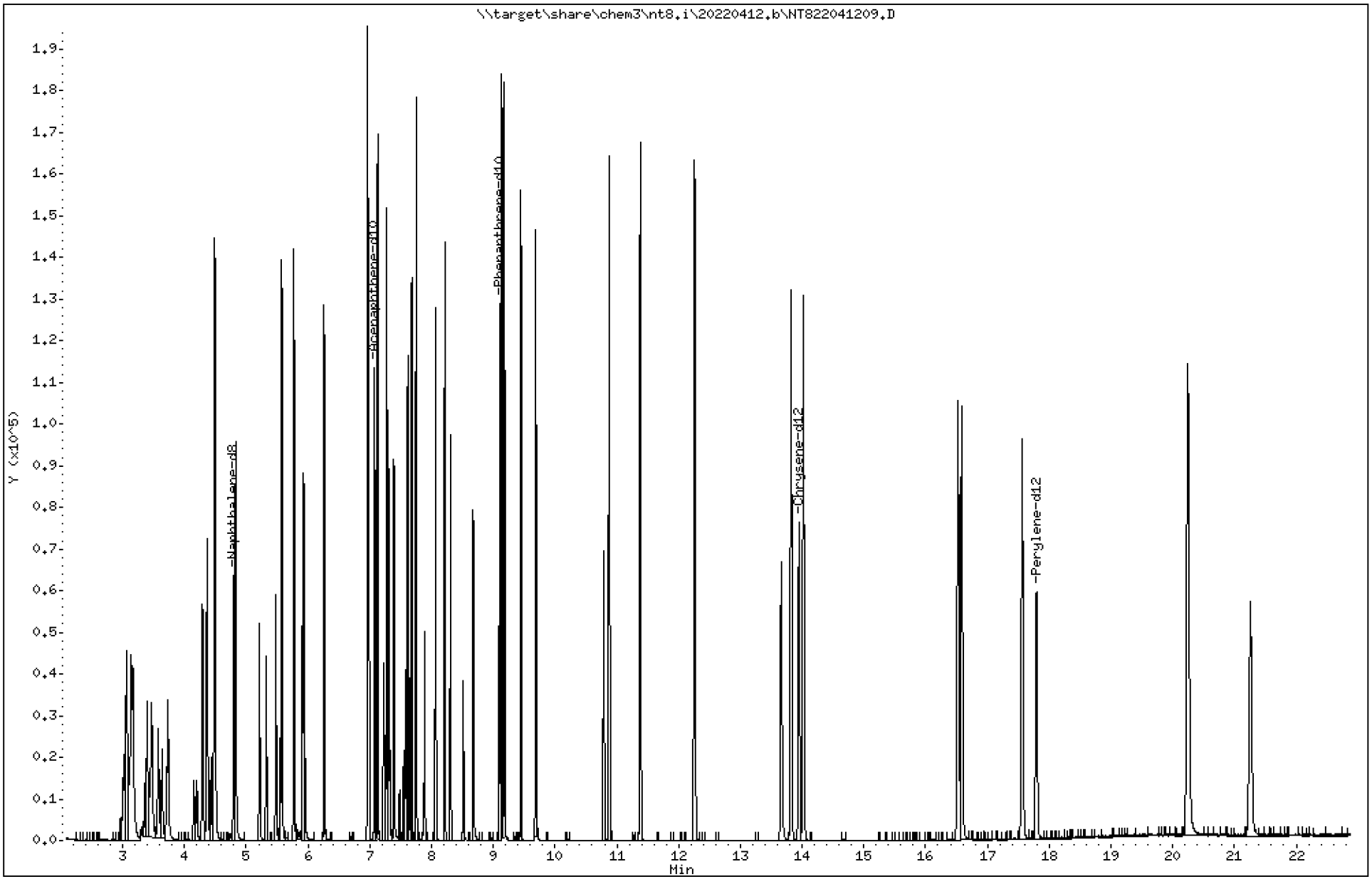
Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FD00034
Laboratory ID: SKD0159-SCV1
Sequence: SKD0159
Sequence Name: 8270 SIM PNA SCV
Standard ID: K000320

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Naphthalene	2.5000	2.81	12.5	
2-Methylnaphthalene	2.5000	2.91	16.3	
1-Methylnaphthalene	2.5000	3.00	20.0	
Acenaphthylene	2.5000	2.97	18.8	
Acenaphthene	2.5000	2.67	6.9	
Dibenzofuran	2.5000	3.19	27.7	
Fluorene	2.5000	2.82	12.9	
Phenanthrene	2.5000	2.90	16.0	
Anthracene	2.5000	2.99	19.5	
Fluoranthene	2.5000	2.98	19.2	
Pyrene	2.5000	3.03	21.3	
Benzo(a)anthracene	2.5000	2.98	19.3	
Chrysene	2.5000	2.92	16.7	
Benzo(b)fluoranthene	2.5000	2.89	15.5	
Benzo(k)fluoranthene	2.5000	3.08	23.3	
Benzofluoranthenes, Total	5.0000	6.10	22.0	
Benzo(a)pyrene	2.5000	3.16	26.5	
Indeno(1,2,3-cd)pyrene	2.5000	3.17	27.0	
Dibenzo(a,h)anthracene	2.5000	2.99	19.5	
Benzo(g,h,i)perylene	2.5000	2.92	16.8	

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D
Date : 12-APR-2022 16:16
Client ID:
Sample Info: SCV220411,
Volume Injected (uL): 1.0
Column phase: Rxi-17sil

Instrument: nt8.i
Operator: JZ
Column diameter: 0.25



Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

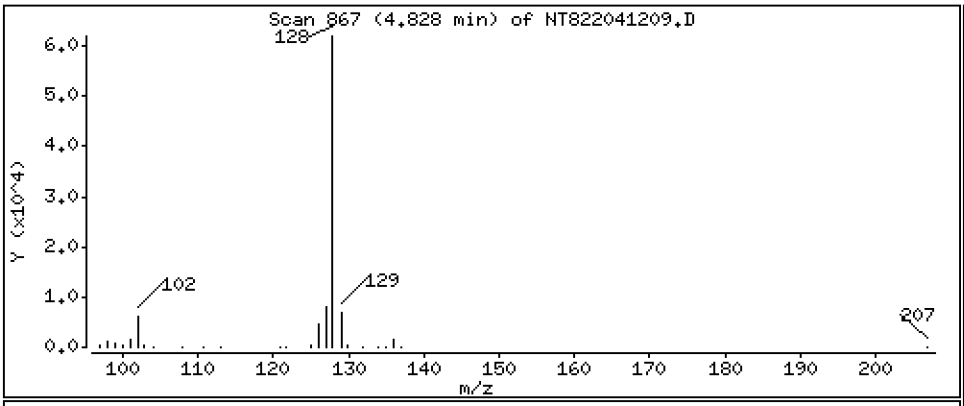
Operator: JZ

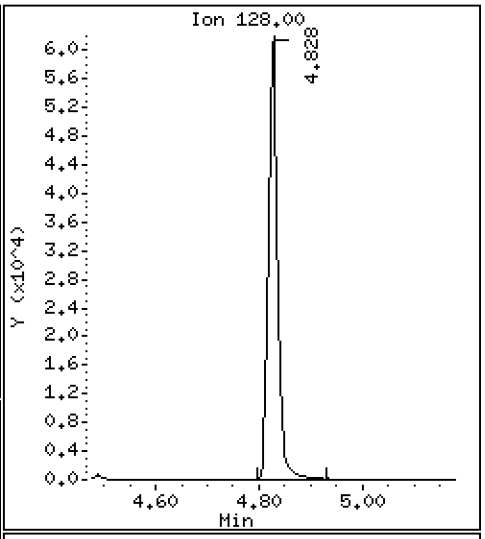
Column phase: Rxi-17sil

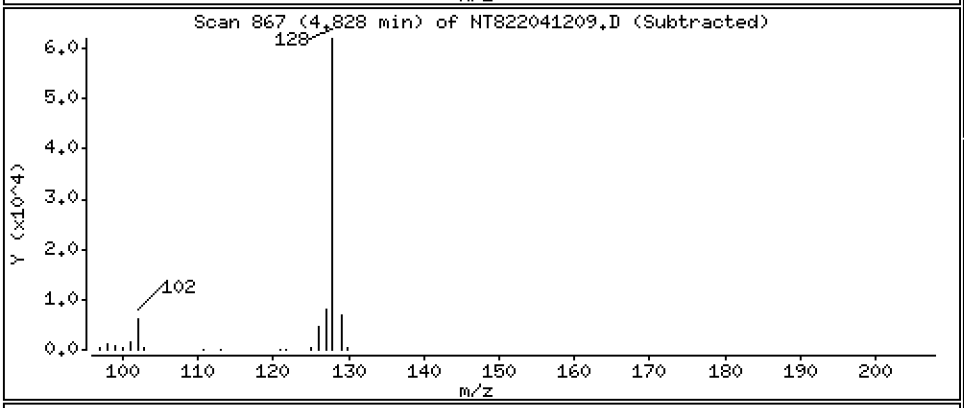
Column diameter: 0.25

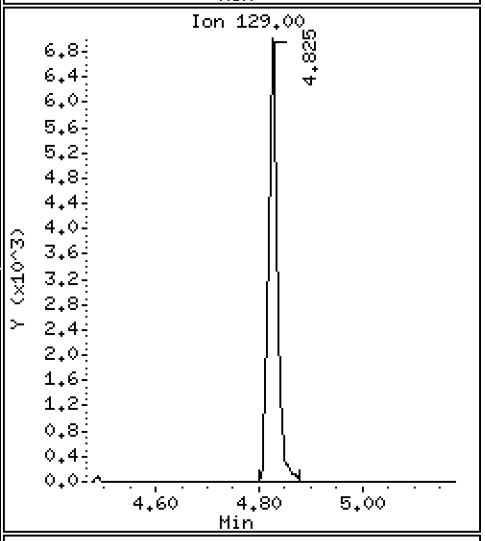
2 Naphthalene

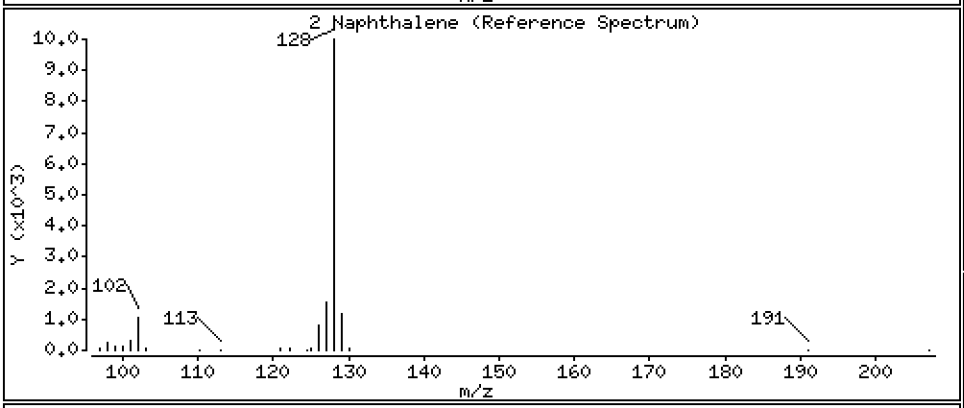
Concentration: 2.813 ug/L

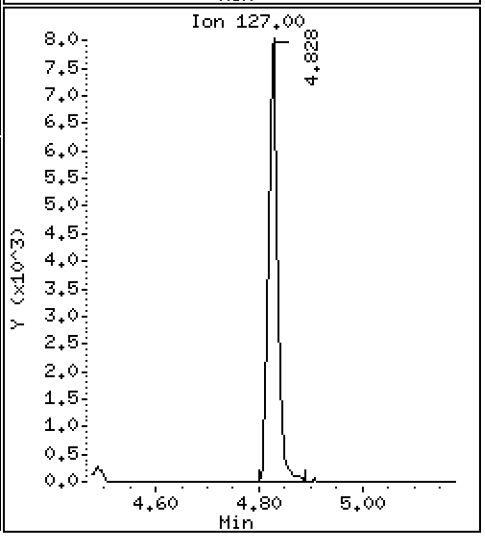


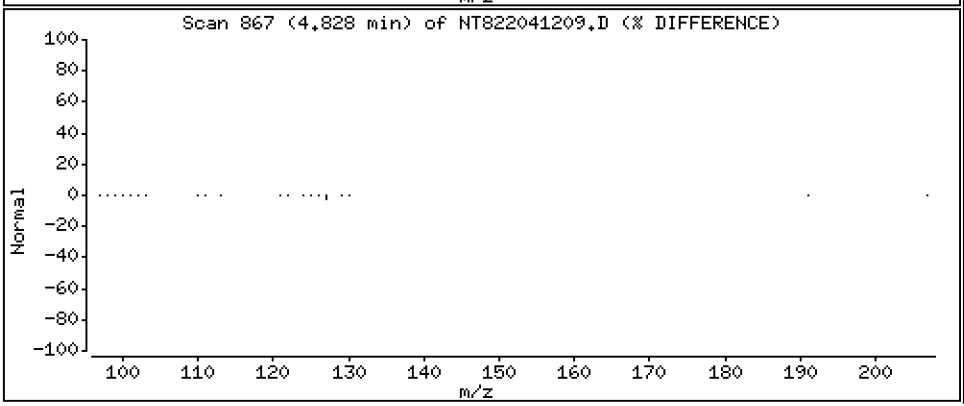












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

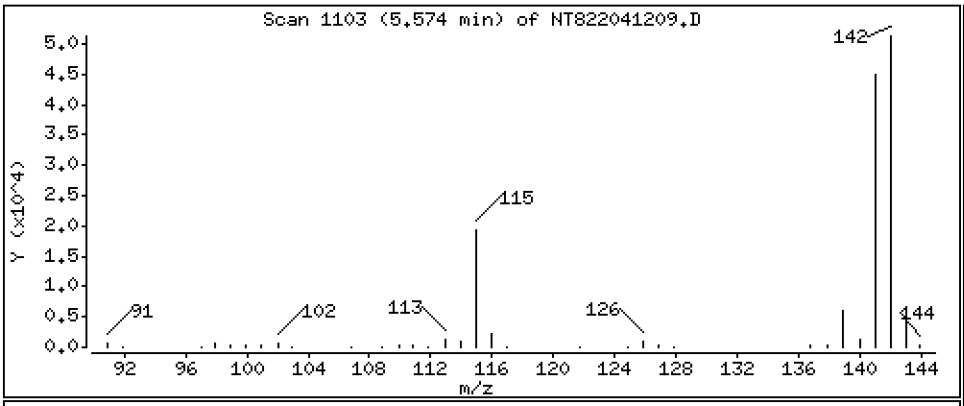
Operator: JZ

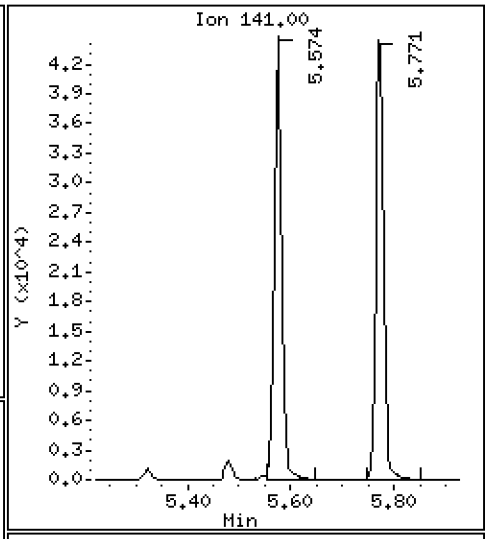
Column phase: Rxi-17sil

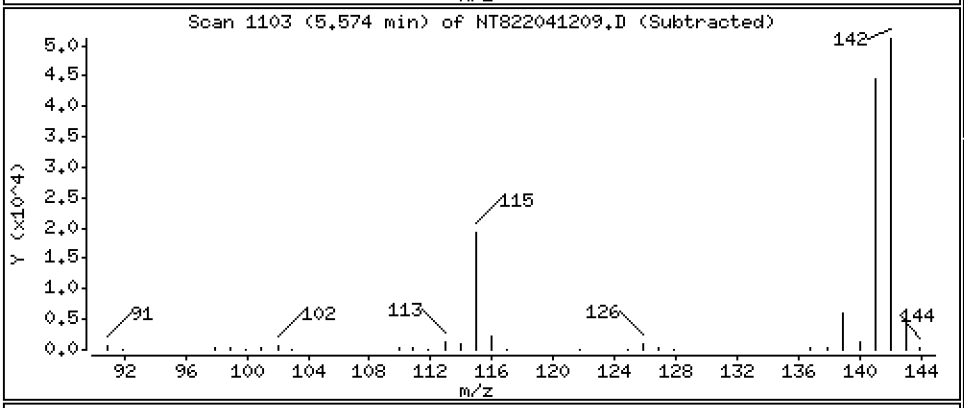
Column diameter: 0.25

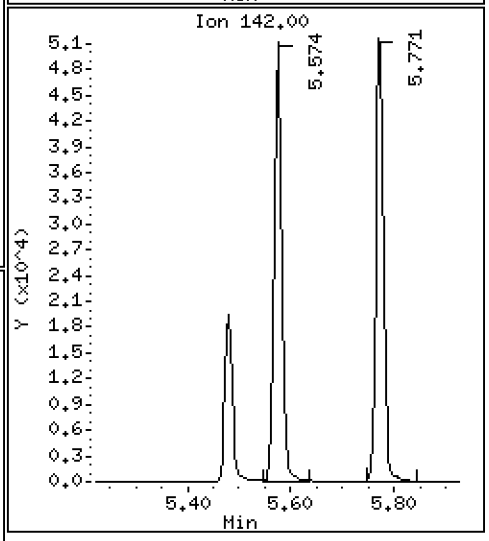
4 2-Methylnaphthalene

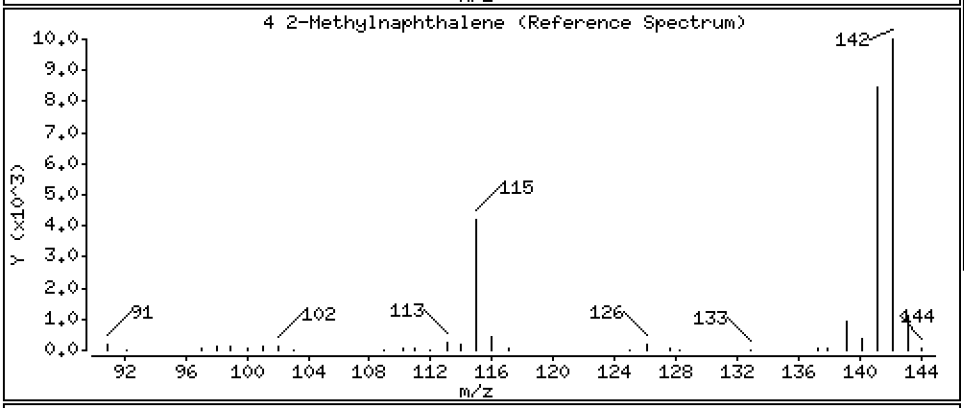
Concentration: 2.908 ug/L

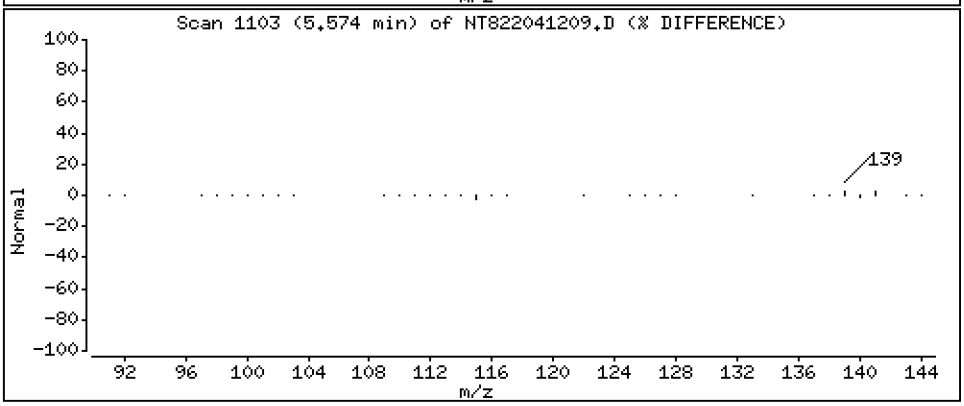












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

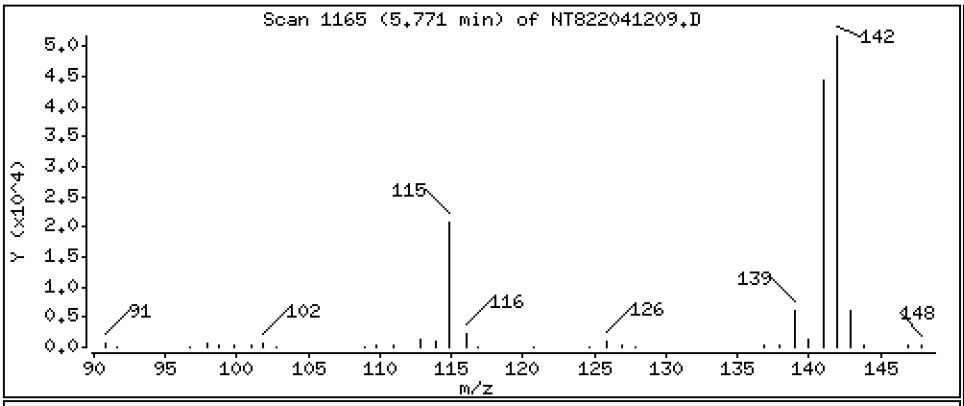
Operator: JZ

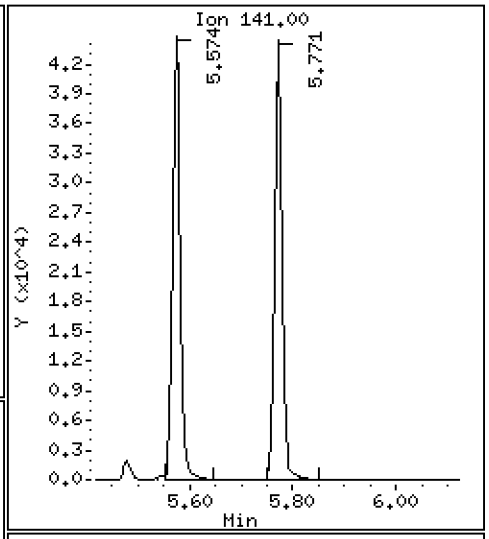
Column phase: Rxi-17sil

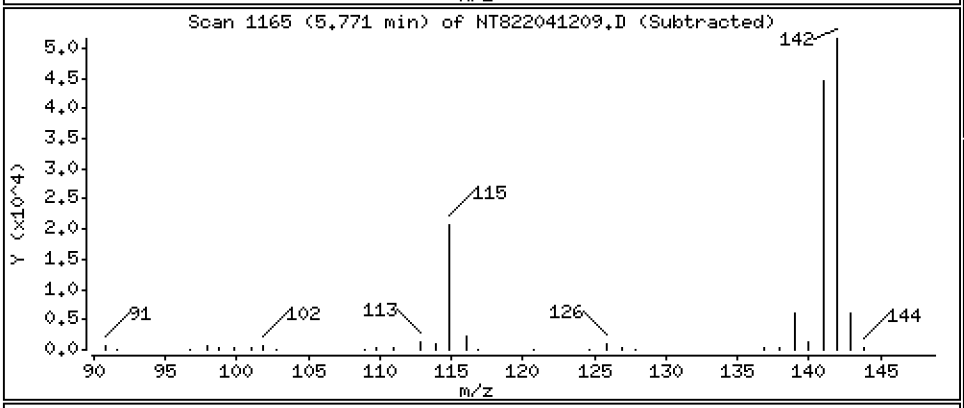
Column diameter: 0.25

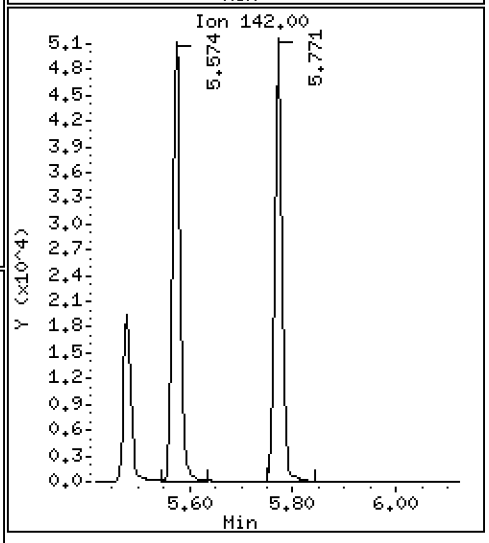
5 1-methylnaphthalene

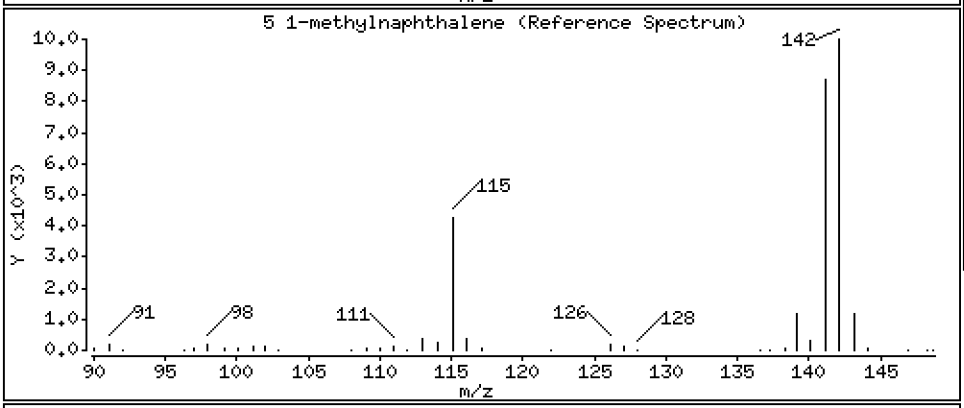
Concentration: 3.001 ug/L

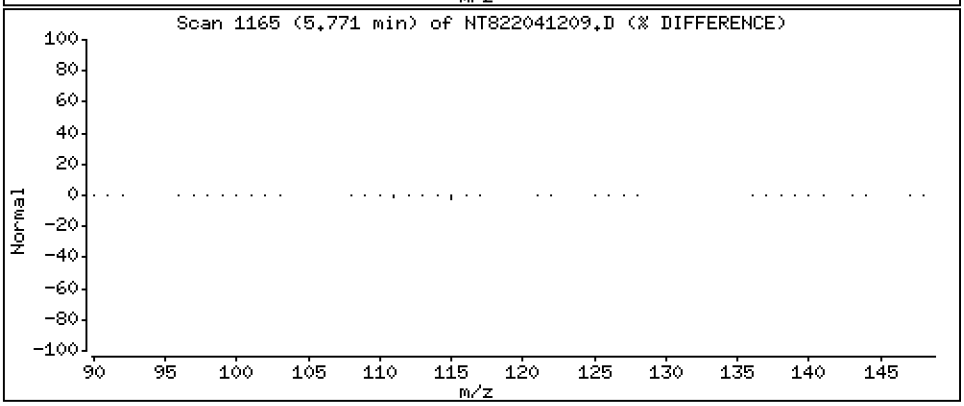












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

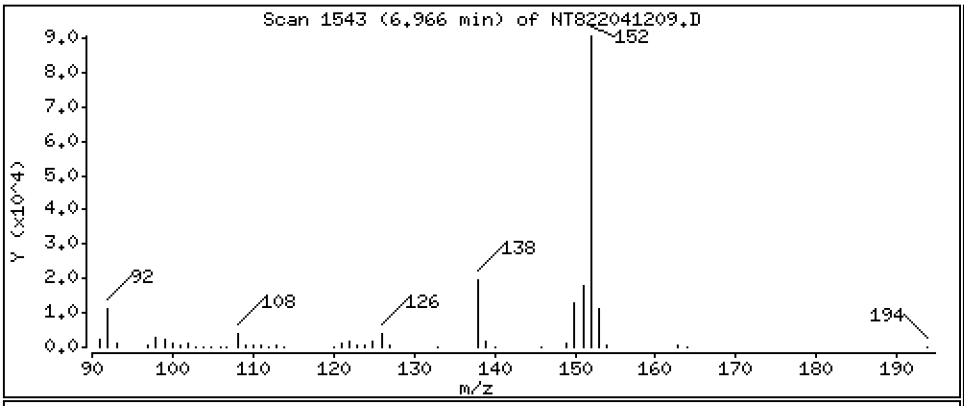
Operator: JZ

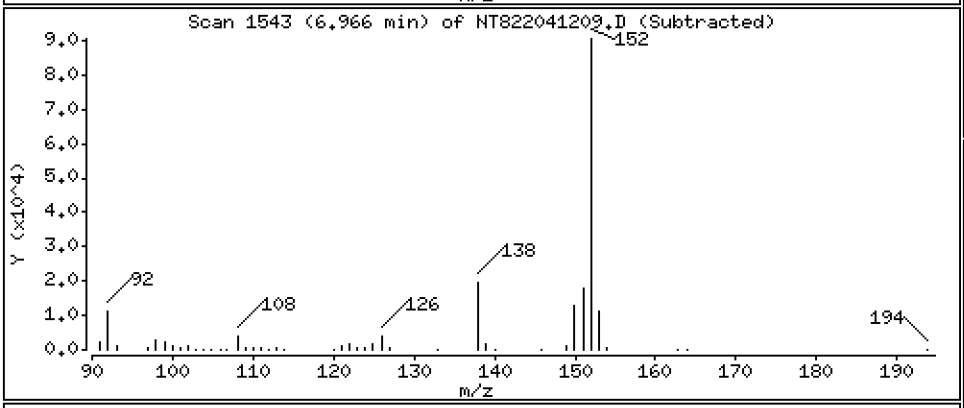
Column phase: Rxi-17sil

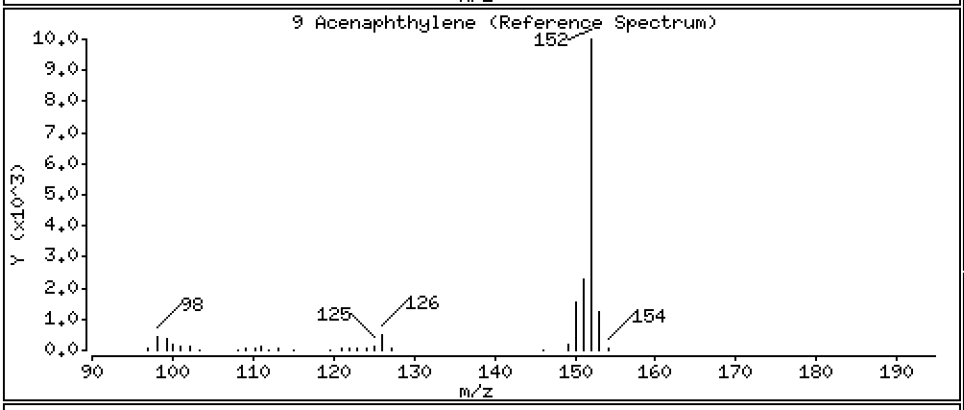
Column diameter: 0.25

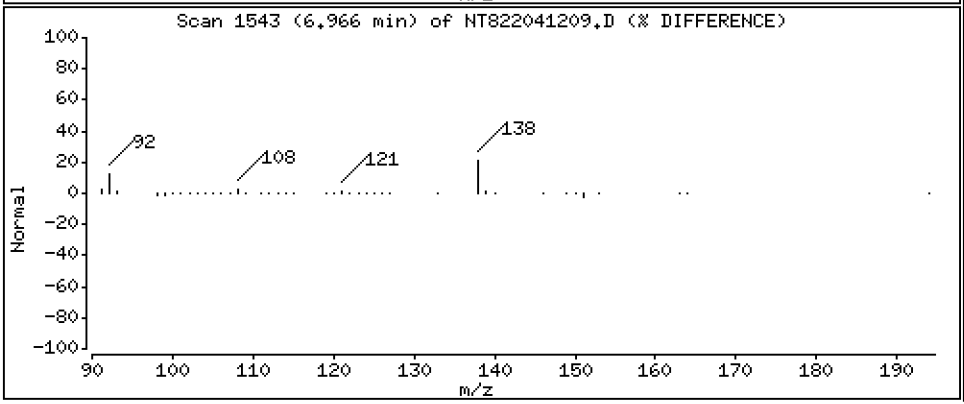
9 Acenaphthylene

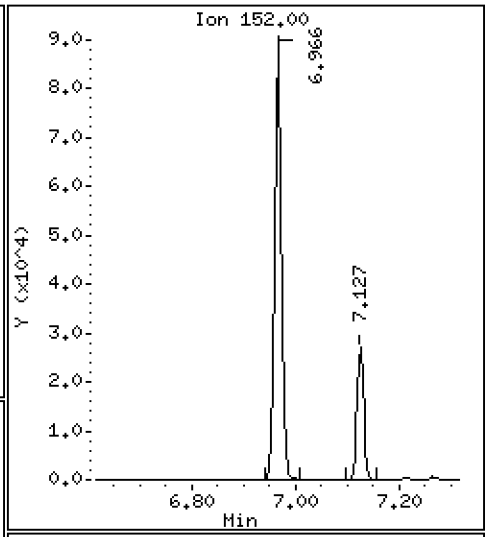
Concentration: 2.969 ug/L

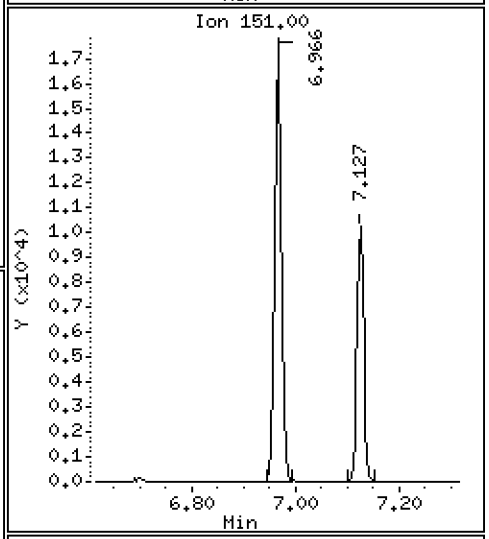


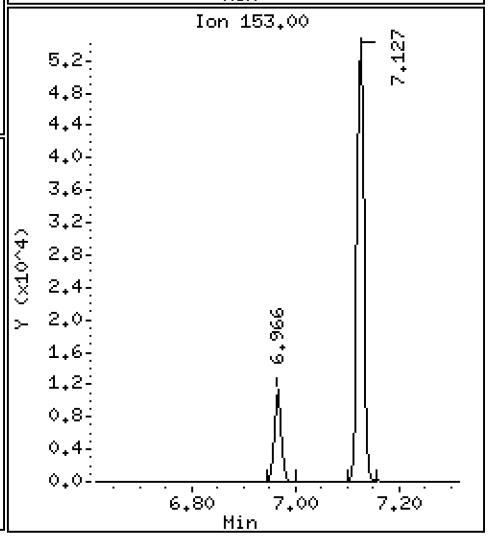












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

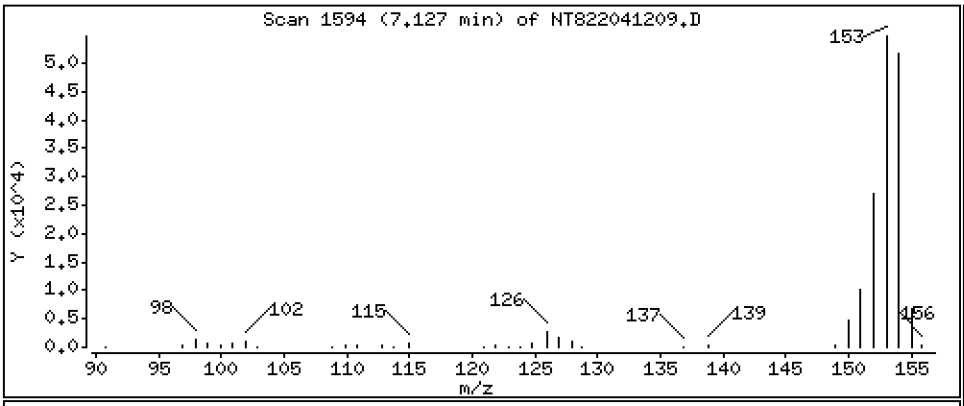
Operator: JZ

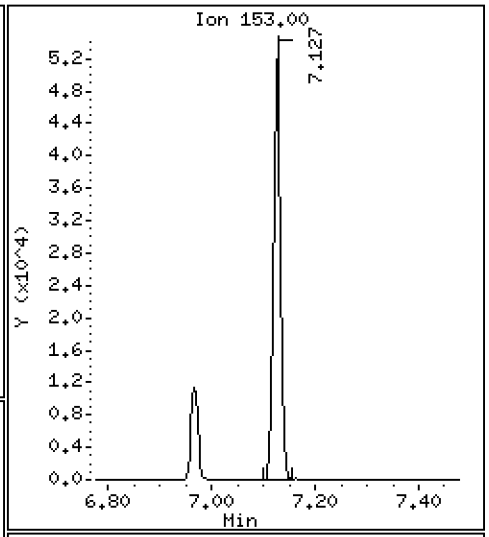
Column phase: Rxi-17sil

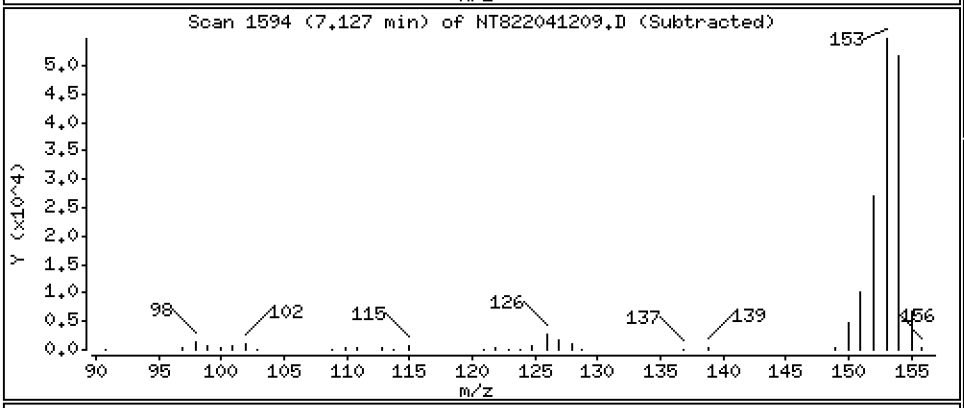
Column diameter: 0.25

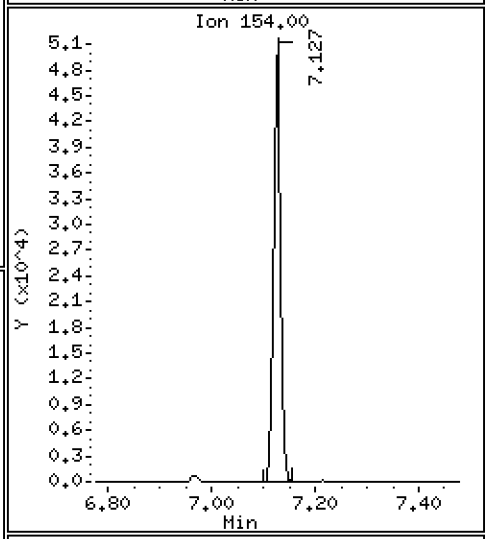
11 Acenaphthene

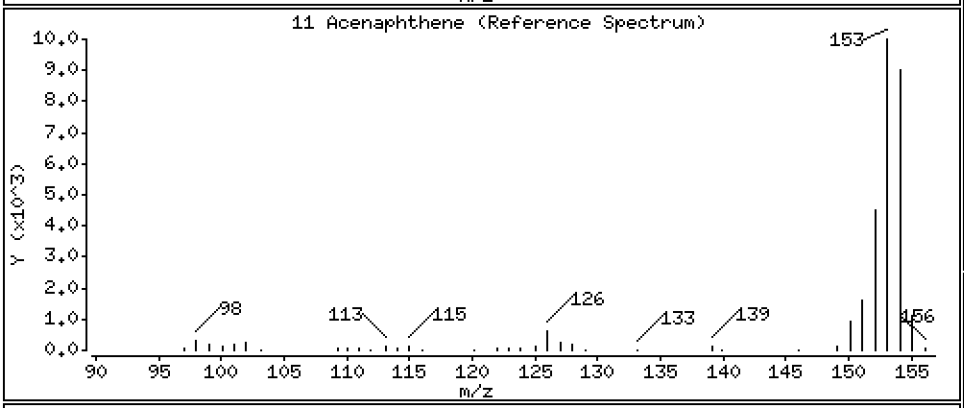
Concentration: 2.673 ug/L

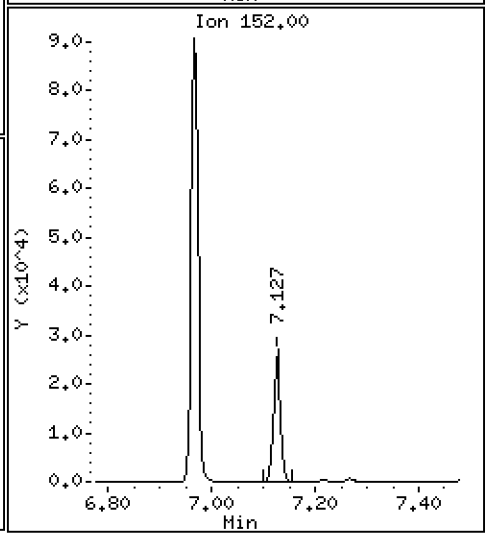


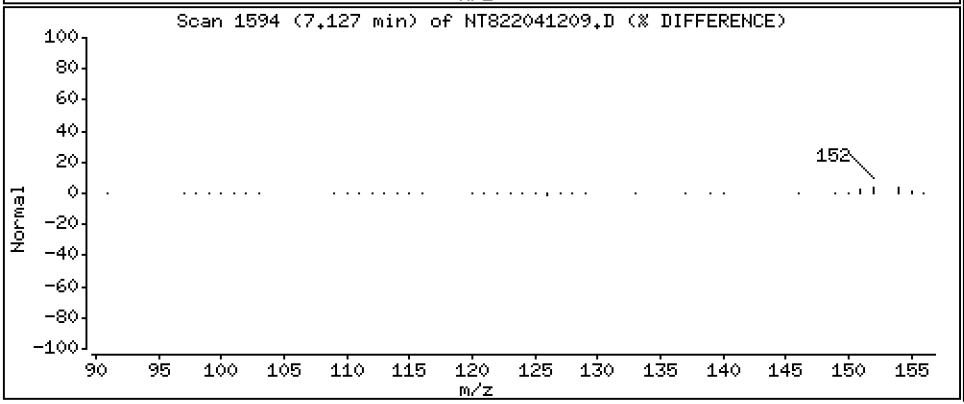












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

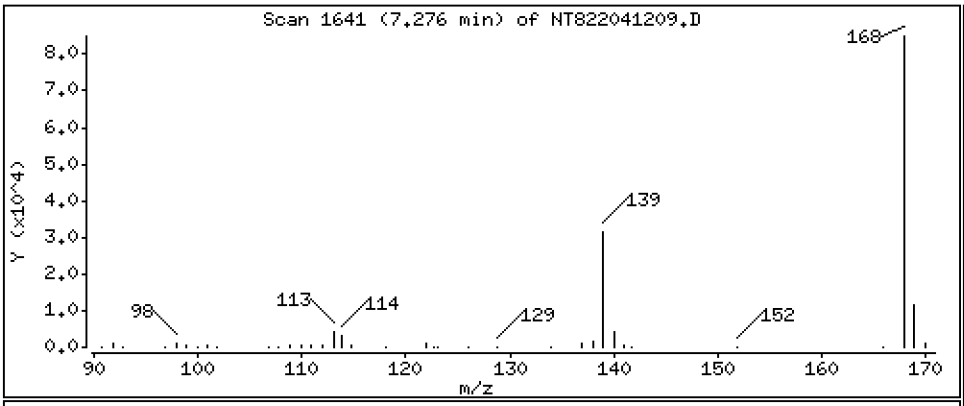
Operator: JZ

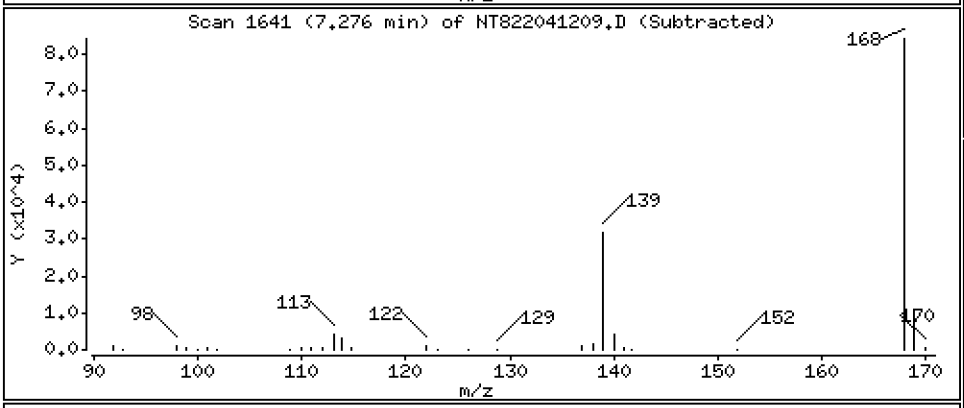
Column phase: Rxi-17sil

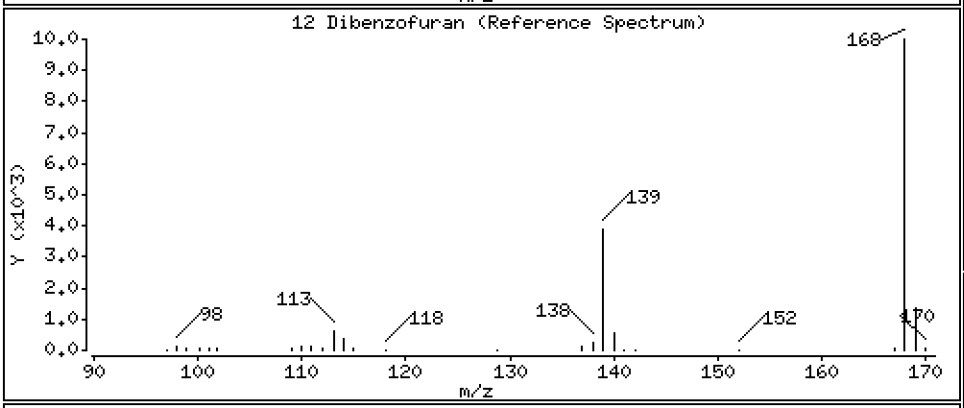
Column diameter: 0.25

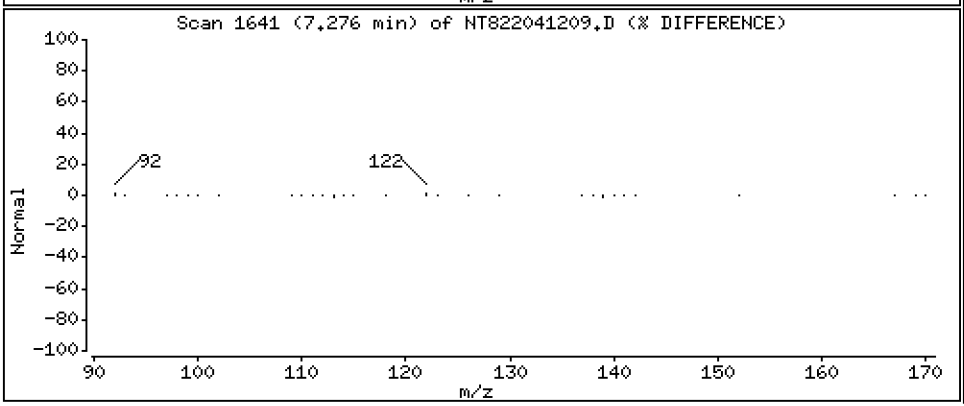
12 Dibenzofuran

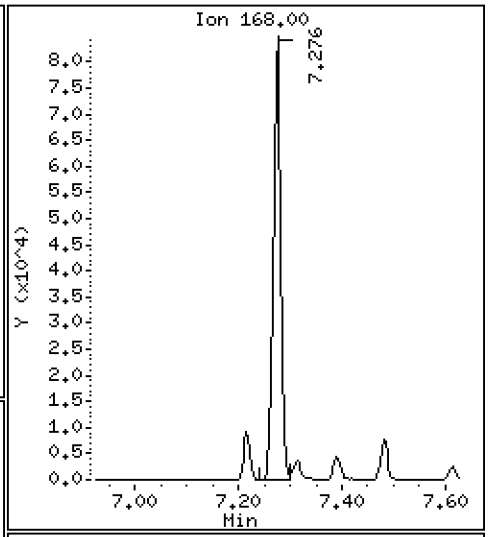
Concentration: 3.192 ug/L

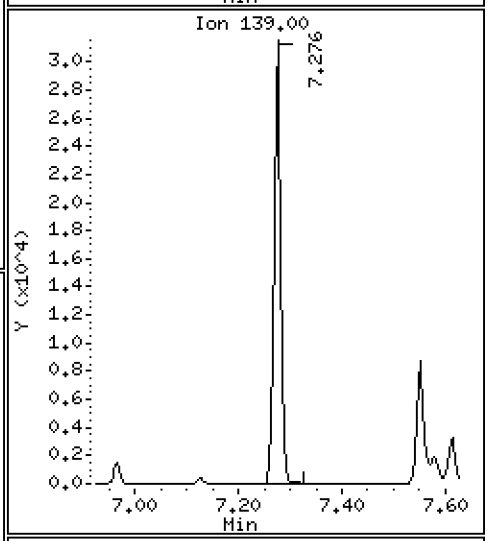


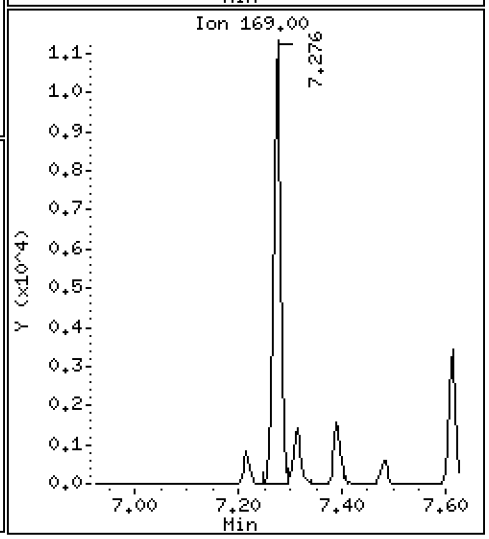












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

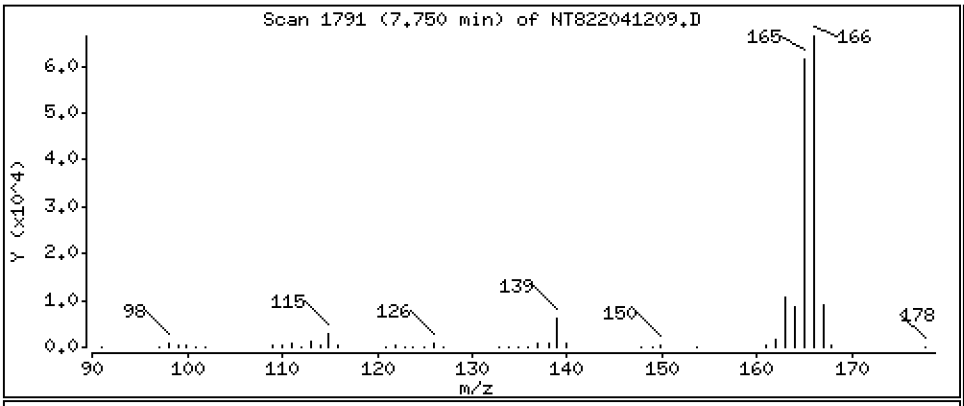
Operator: JZ

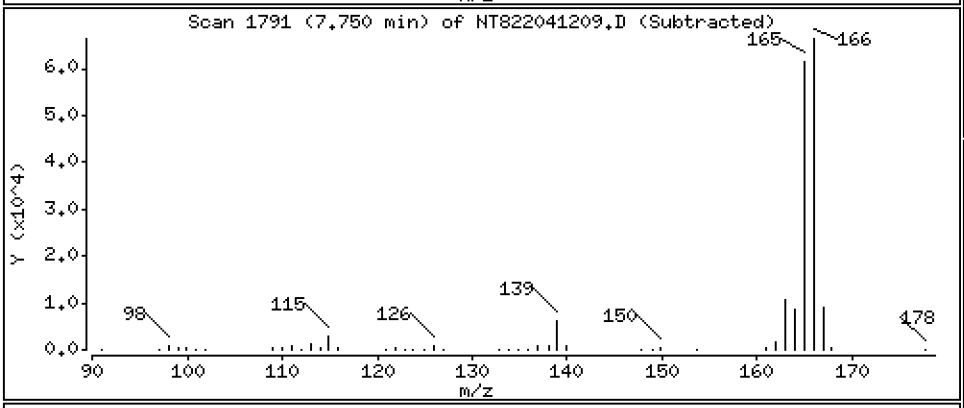
Column phase: Rxi-17sil

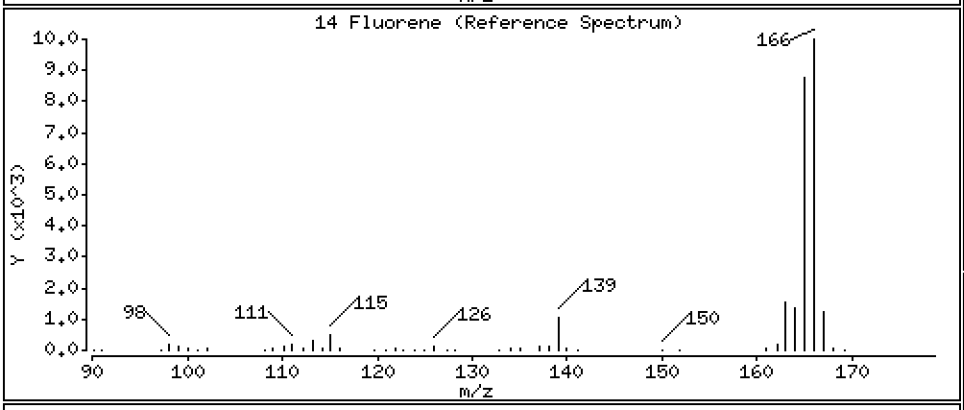
Column diameter: 0.25

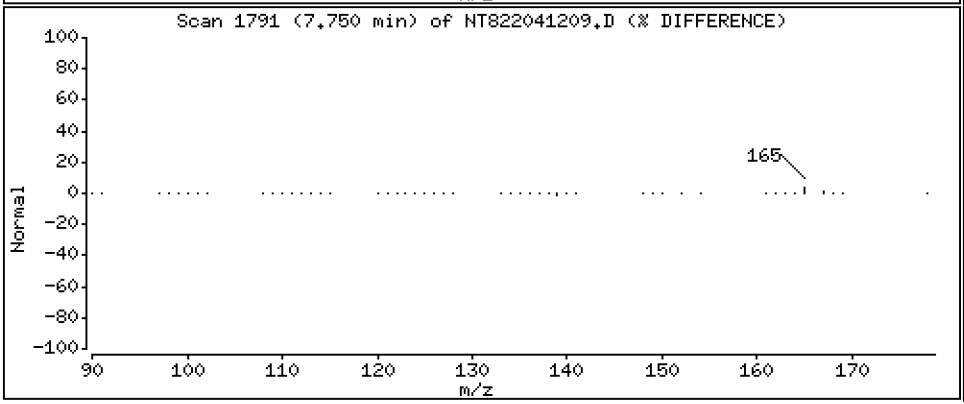
14 Fluorene

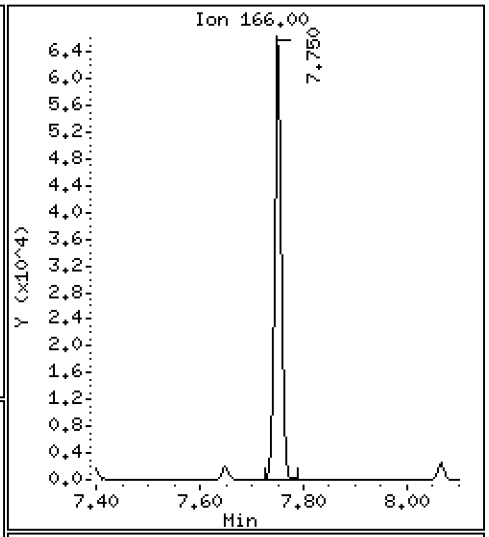
Concentration: 2.824 ug/L

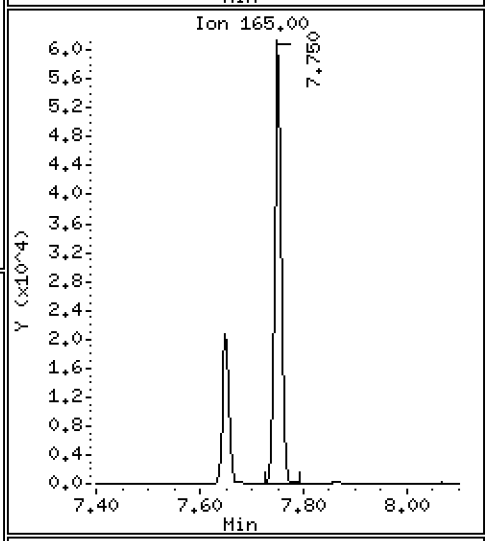


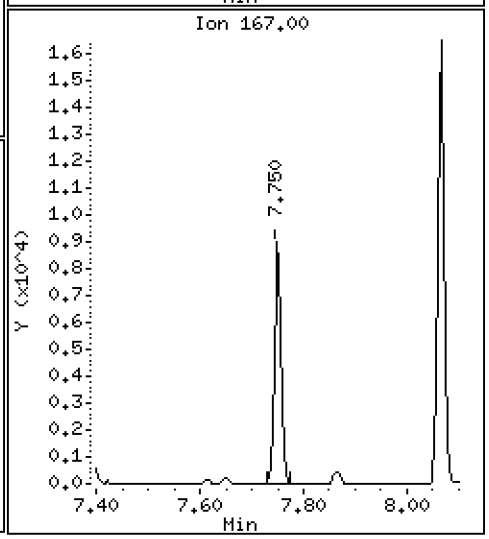












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

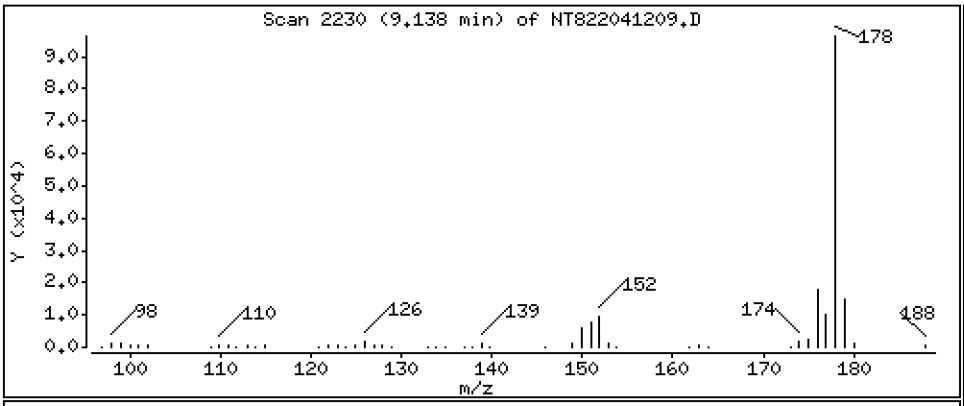
Operator: JZ

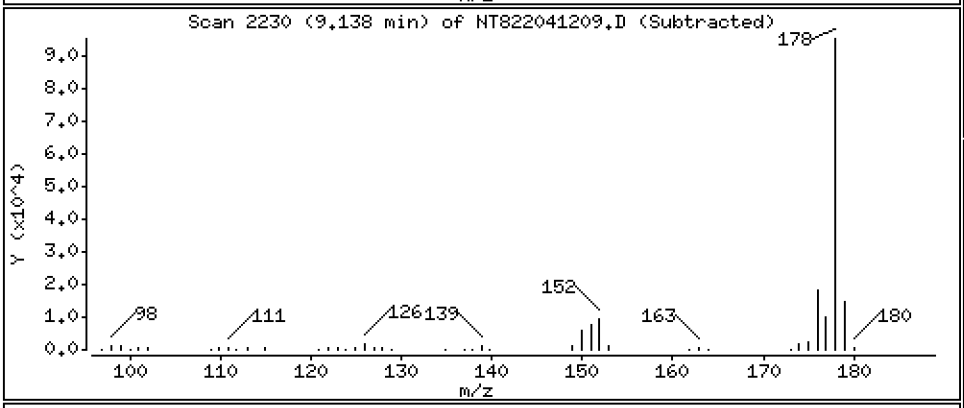
Column phase: Rxi-17sil

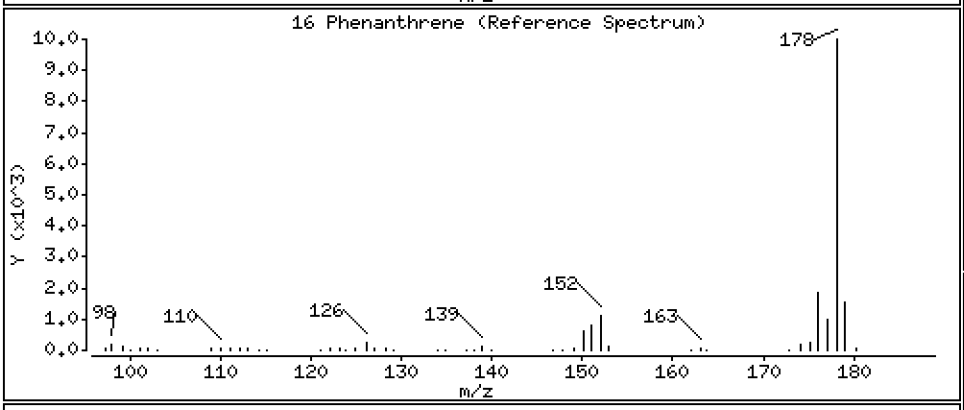
Column diameter: 0.25

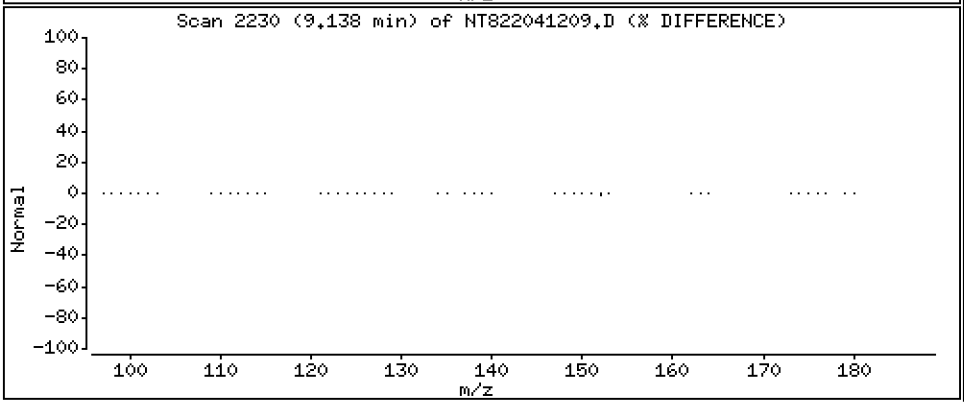
16 Phenanthrene

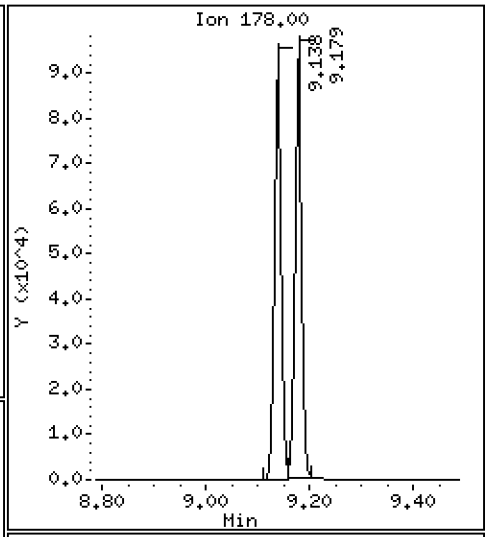
Concentration: 2.901 ug/L

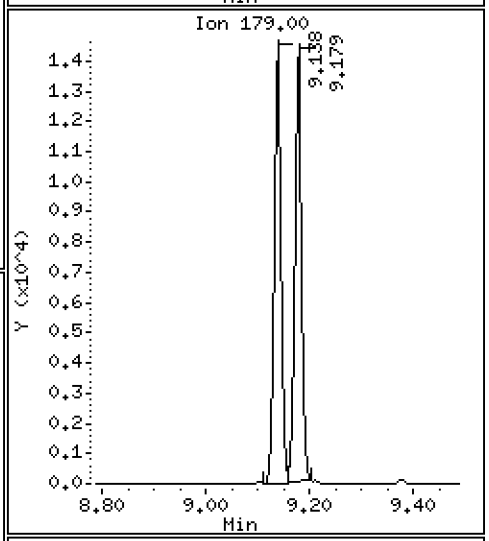


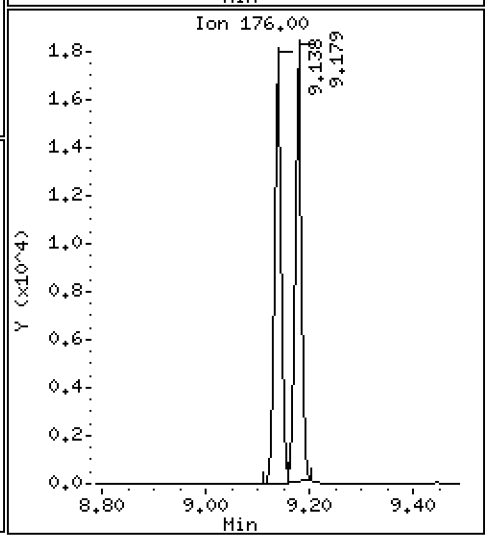












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Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

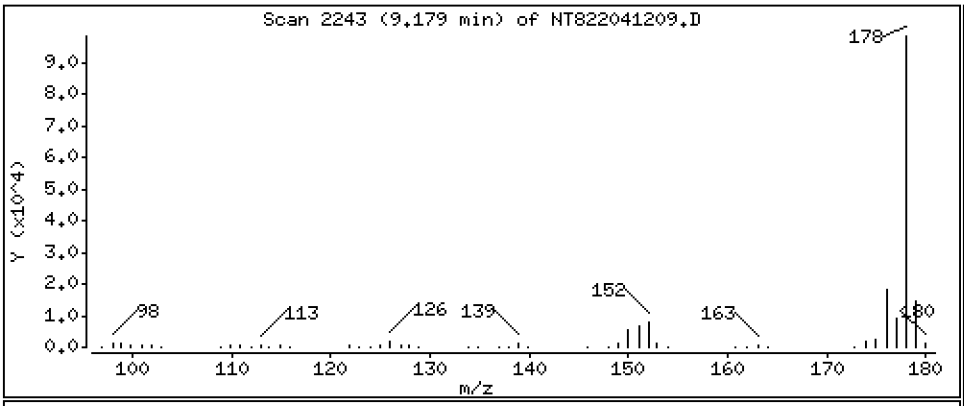
Operator: JZ

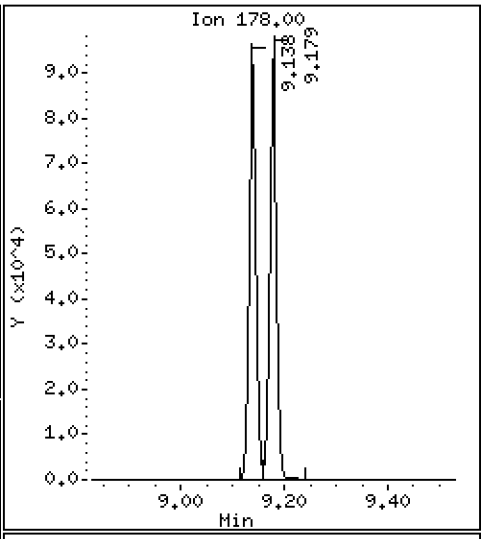
Column phase: Rxi-17sil

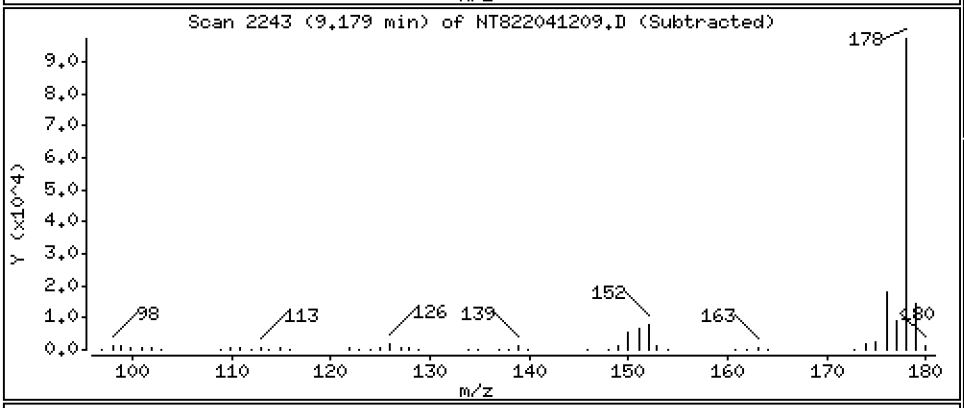
Column diameter: 0.25

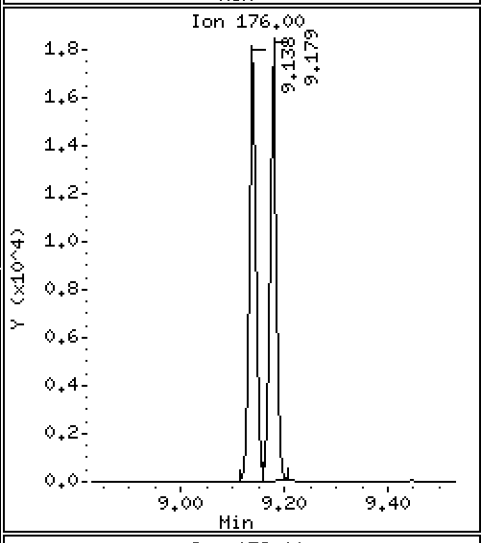
17 Anthracene

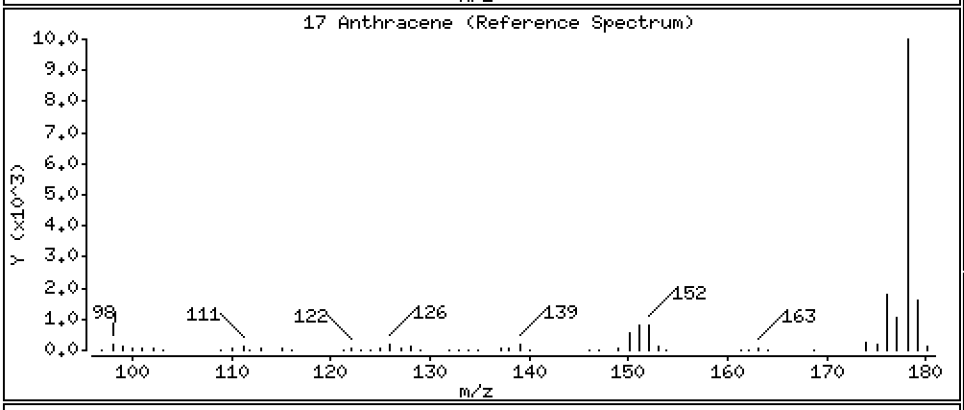
Concentration: 2.989 ug/L

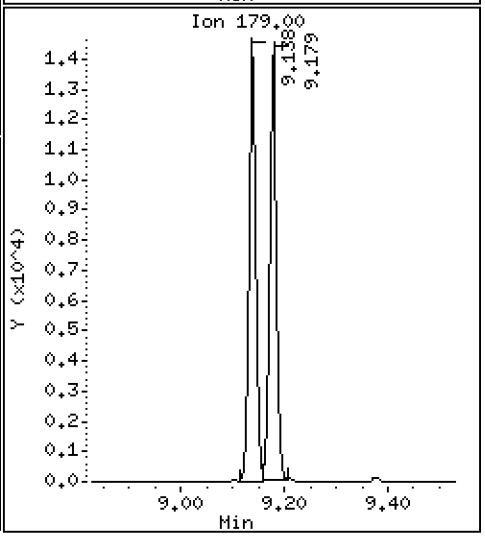


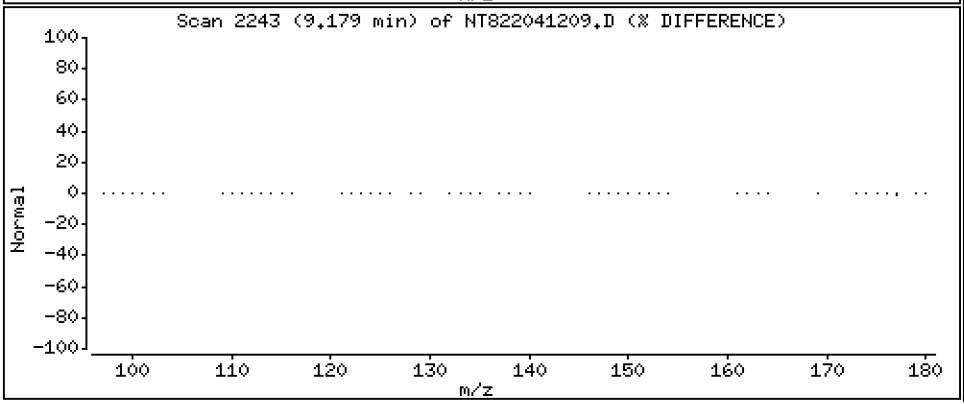












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

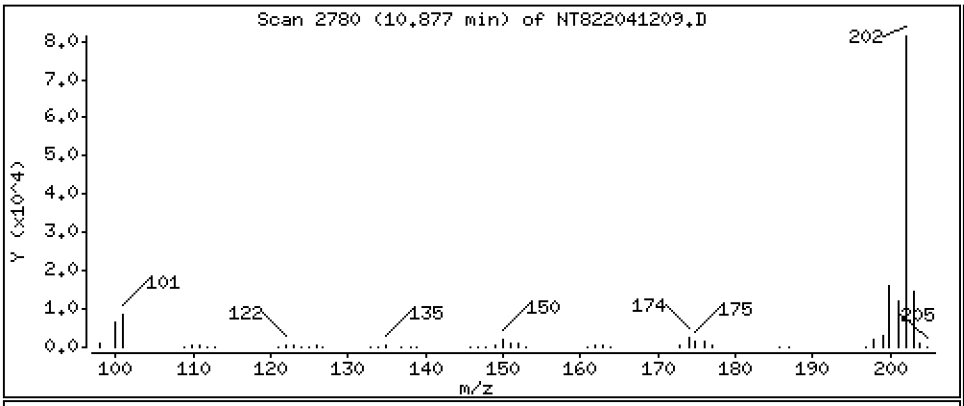
Operator: JZ

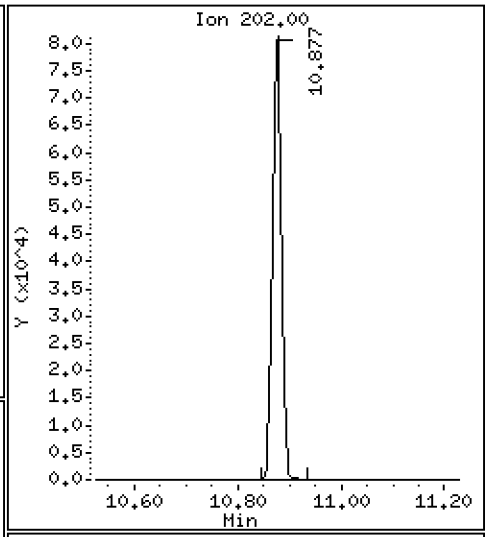
Column phase: Rxi-17sil

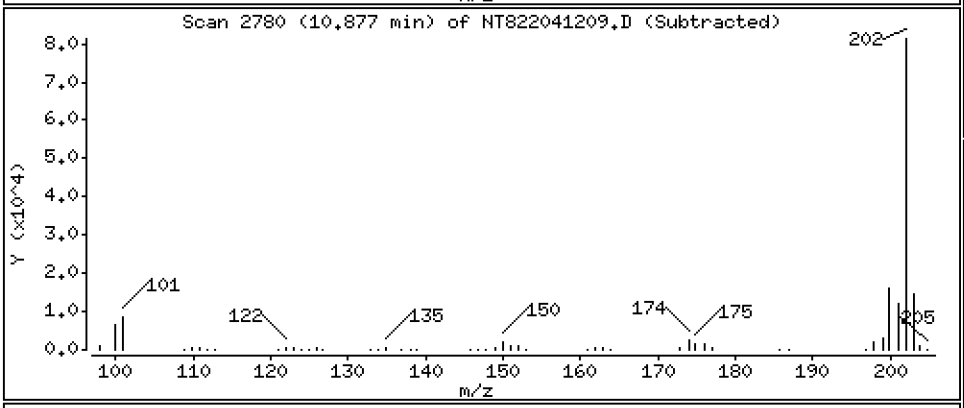
Column diameter: 0.25

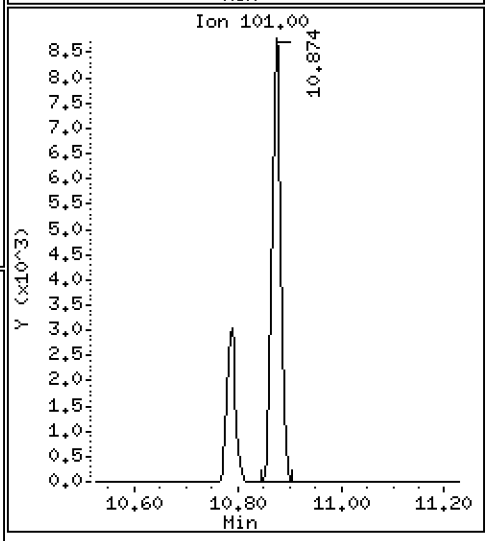
22 Fluoranthene

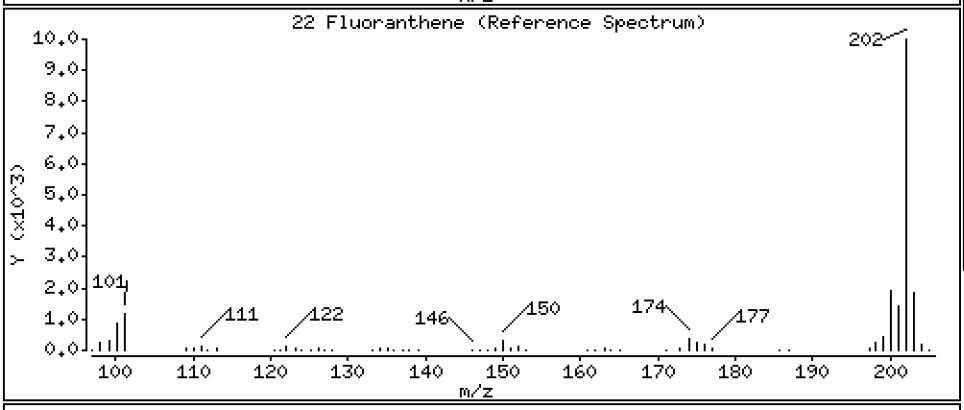
Concentration: 2.981 ug/L

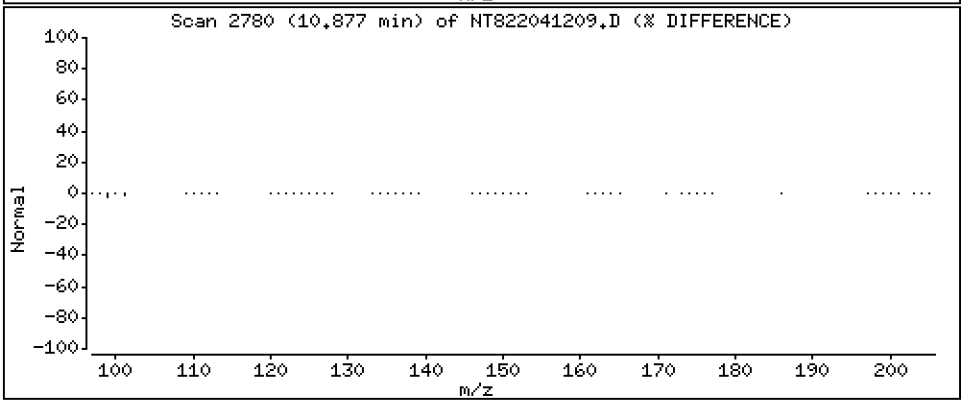












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

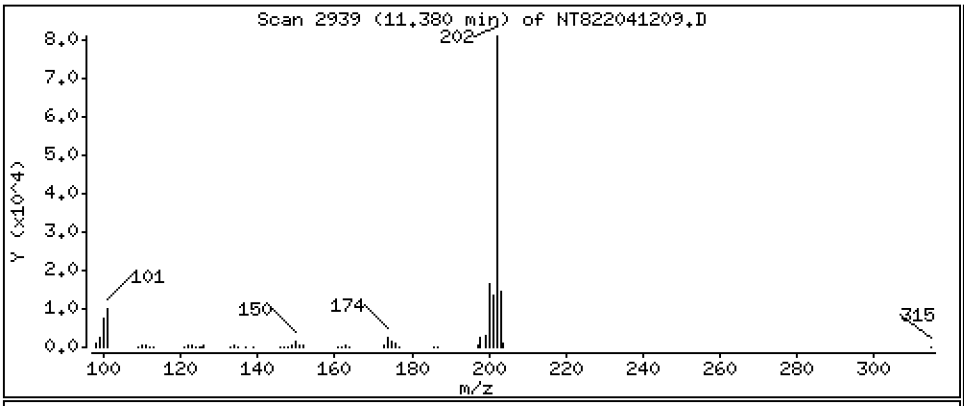
Operator: JZ

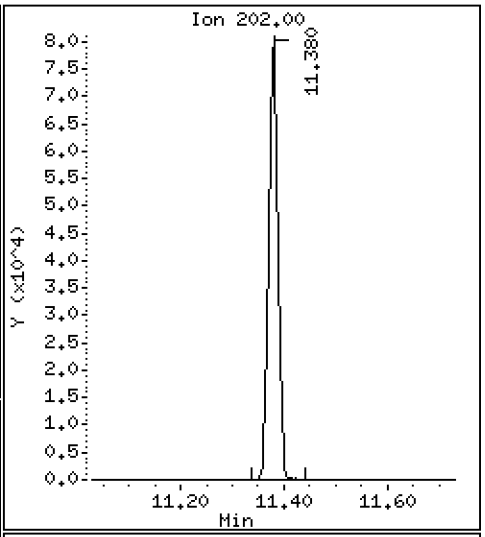
Column phase: Rxi-17sil

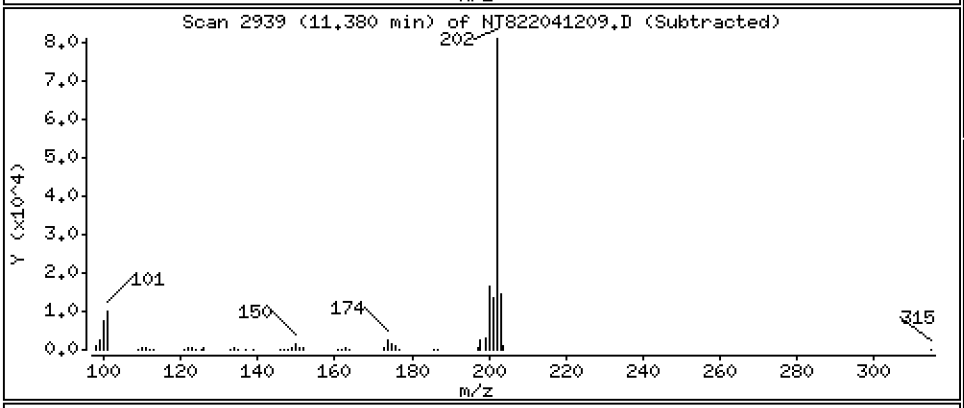
Column diameter: 0.25

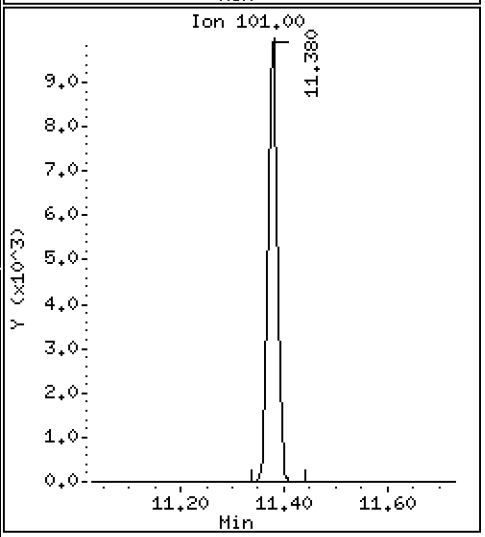
23 Pyrene

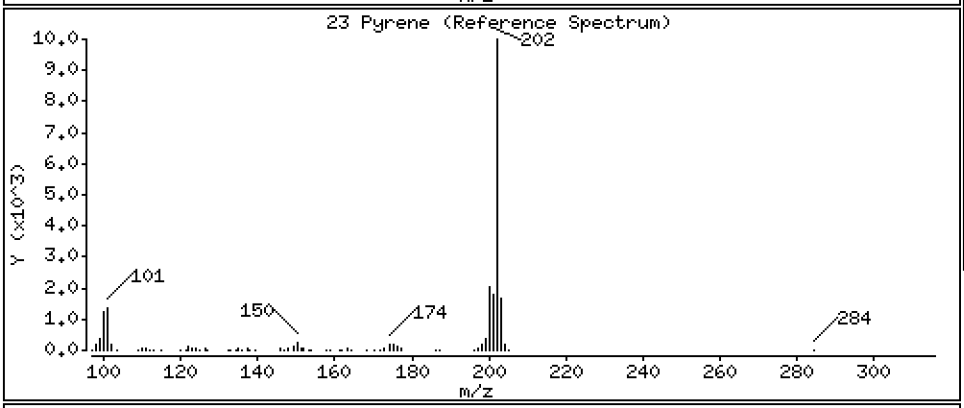
Concentration: 3.034 ug/L

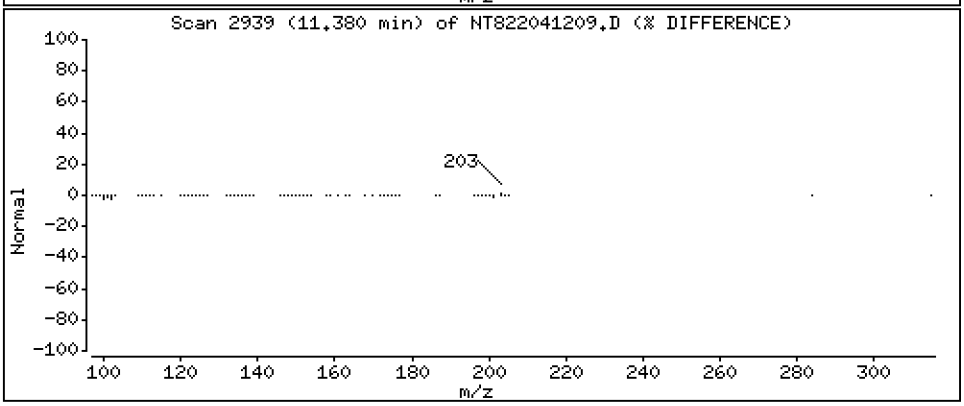












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Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

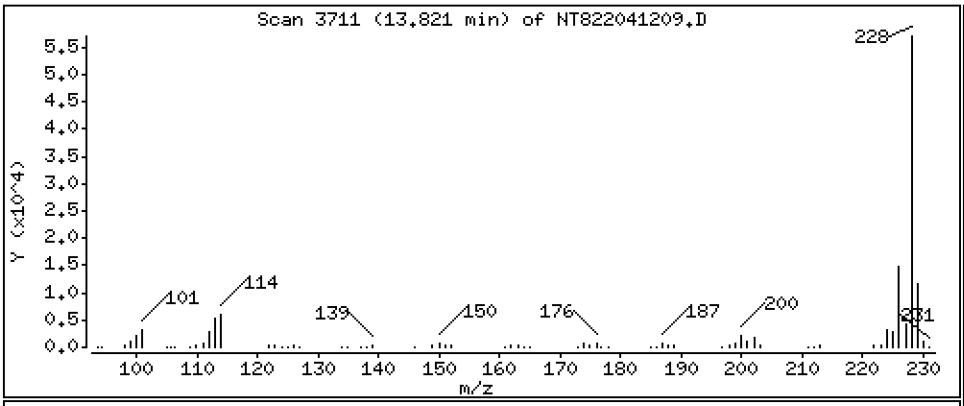
Operator: JZ

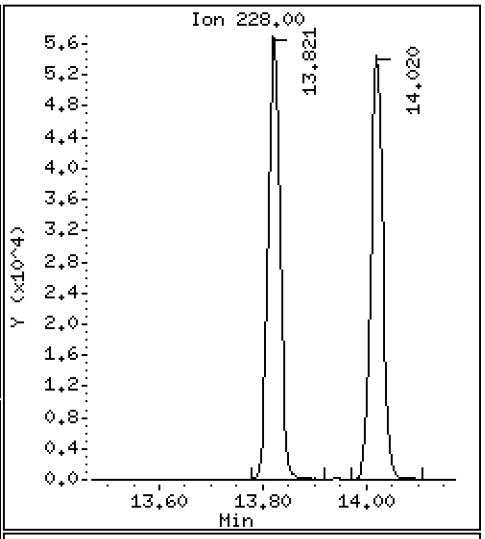
Column phase: Rxi-17sil

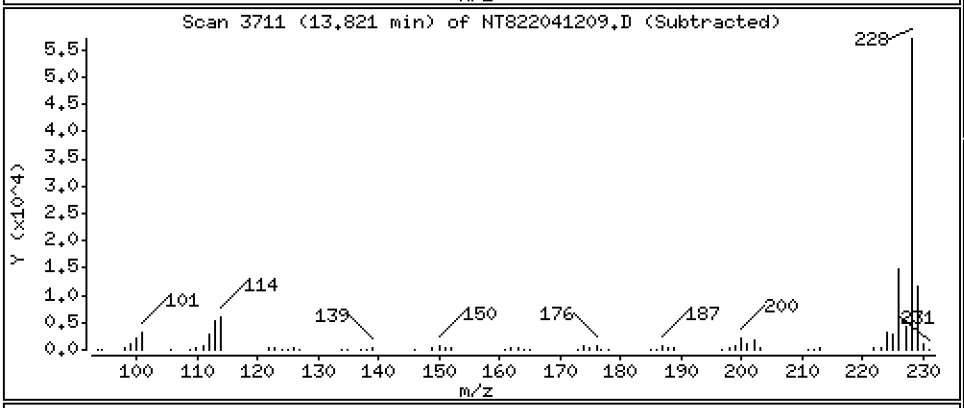
Column diameter: 0.25

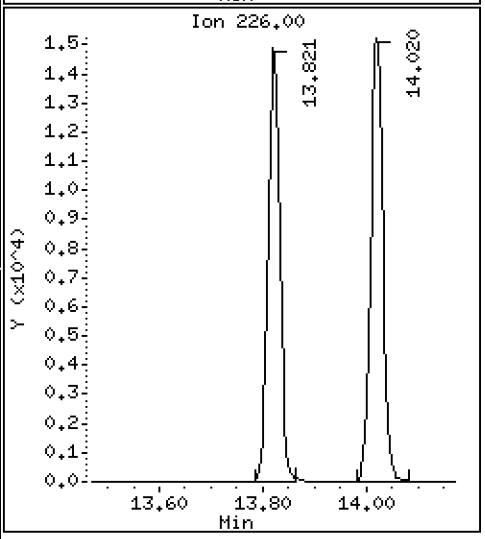
24 Benzo(a)anthracene

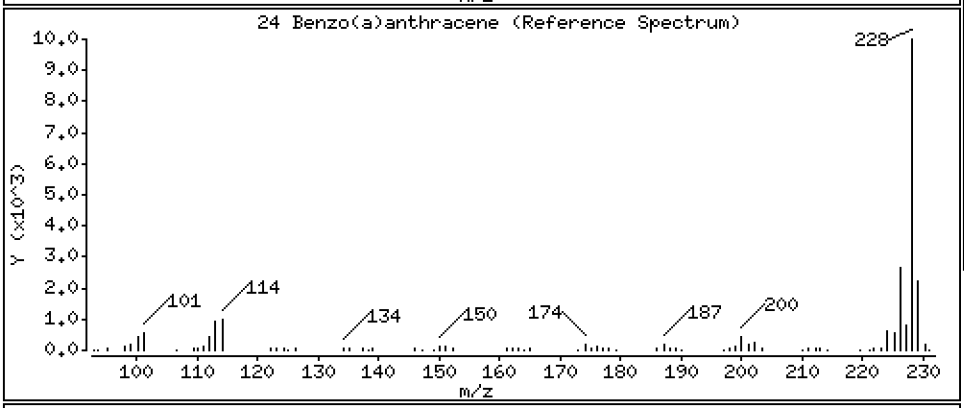
Concentration: 2.982 ug/L

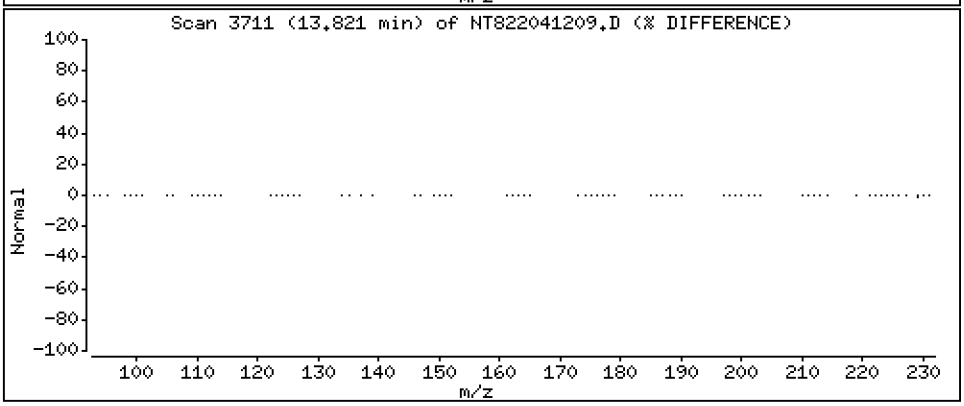












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

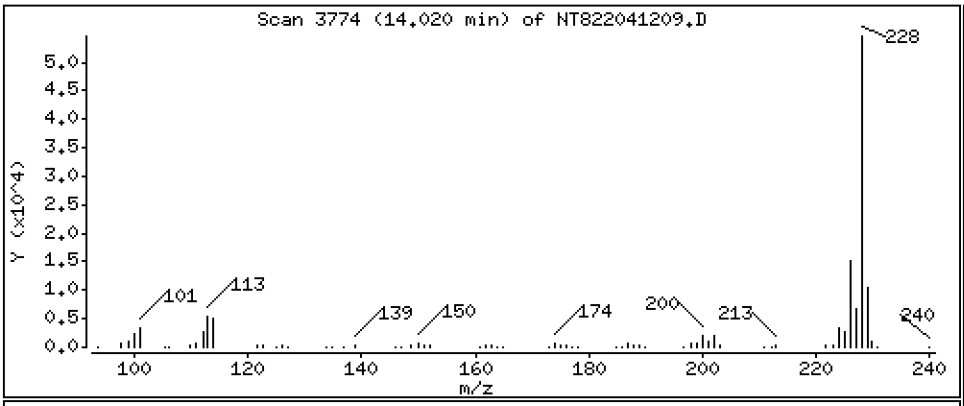
Operator: JZ

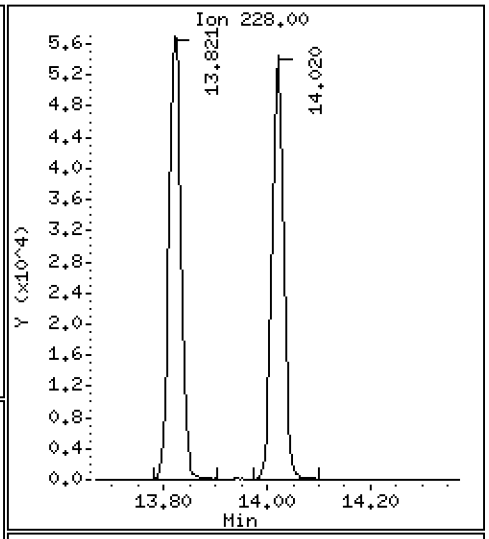
Column phase: Rxi-17sil

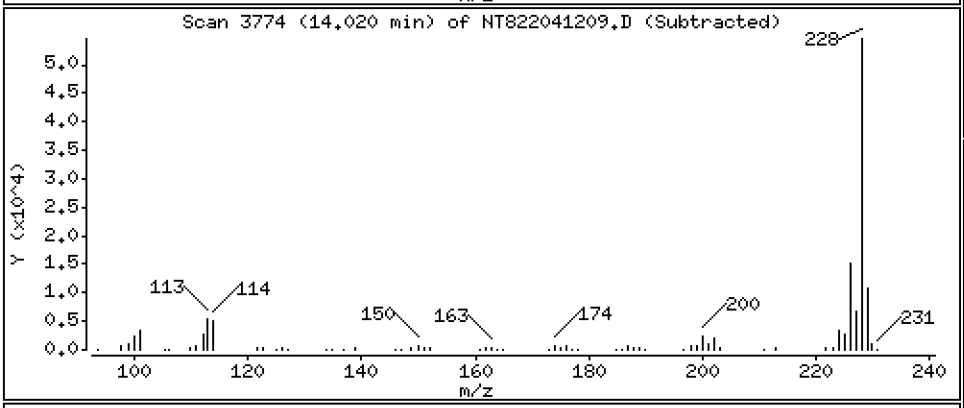
Column diameter: 0.25

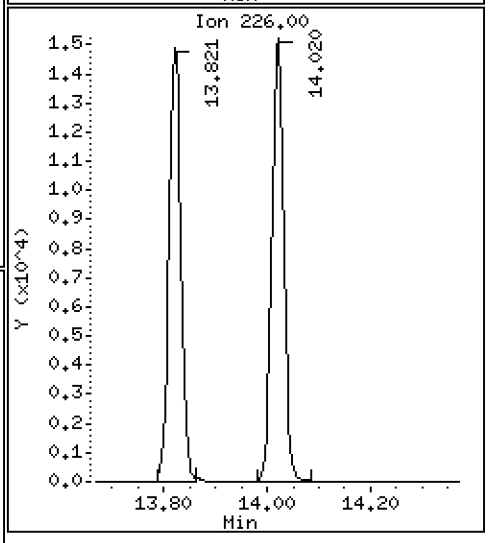
27 Chrysene

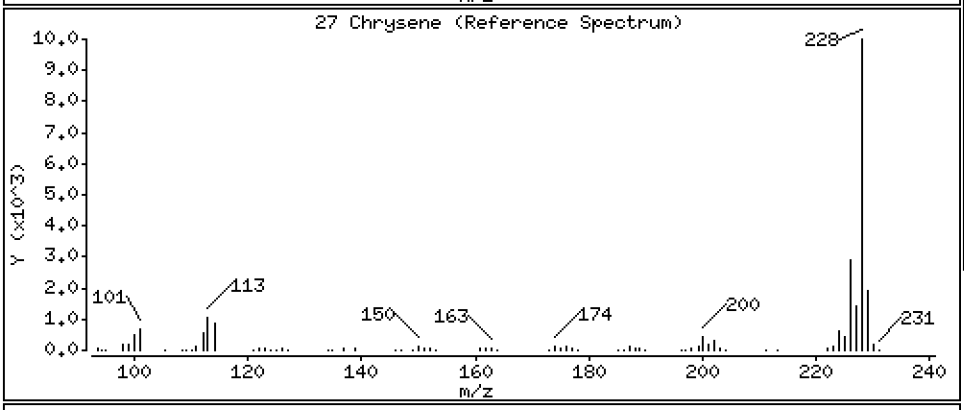
Concentration: 2.917 ug/L

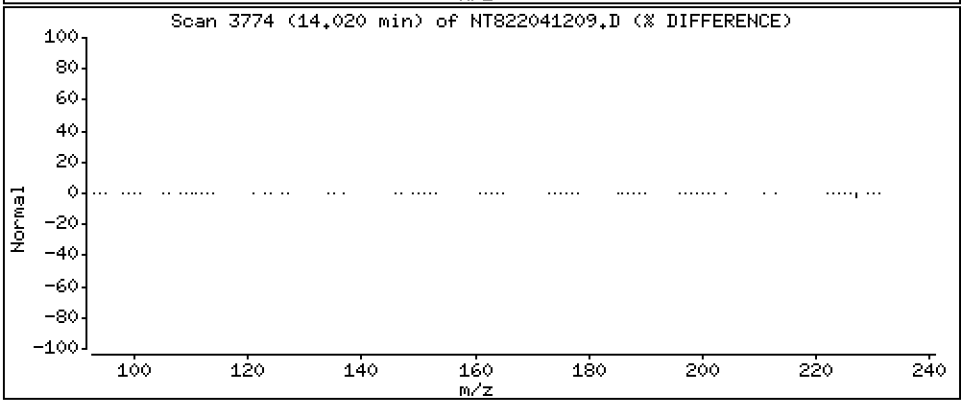












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

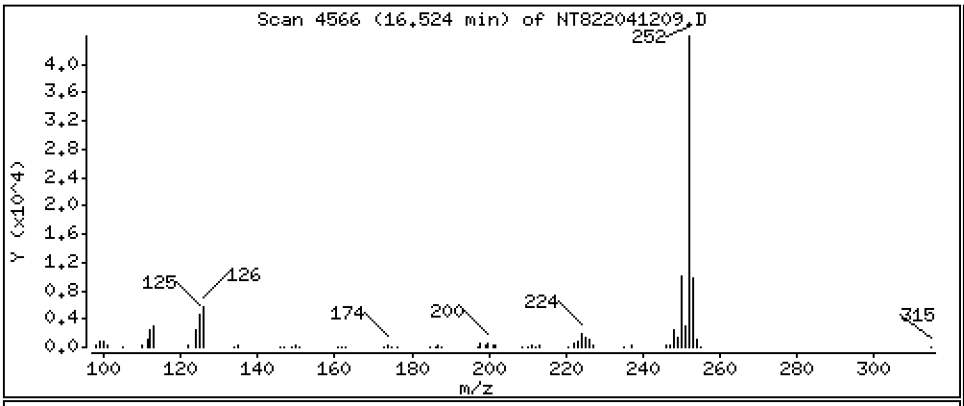
Operator: JZ

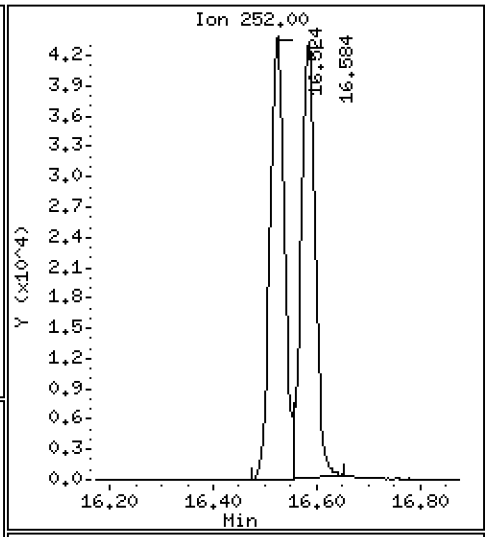
Column phase: Rxi-17sil

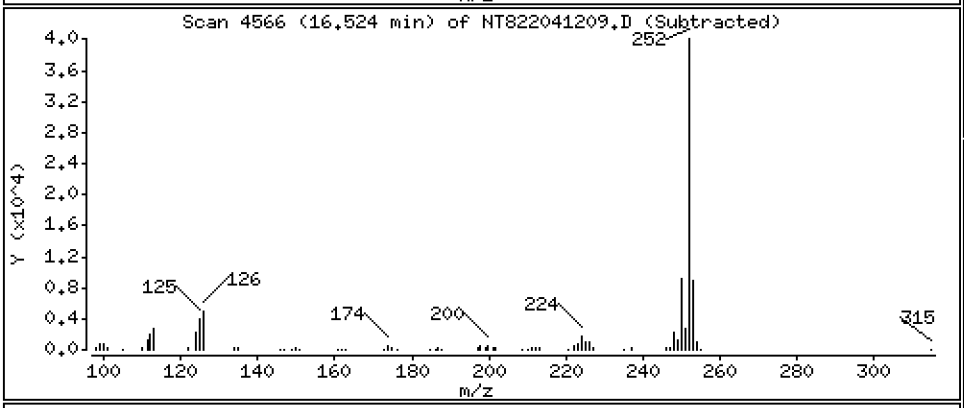
Column diameter: 0.25

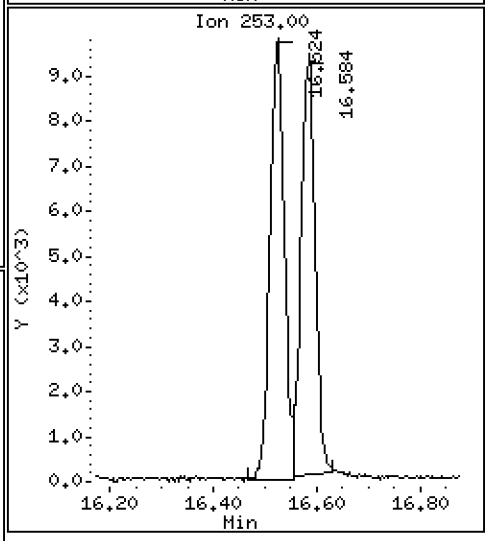
28 Benzo(b)fluoranthene

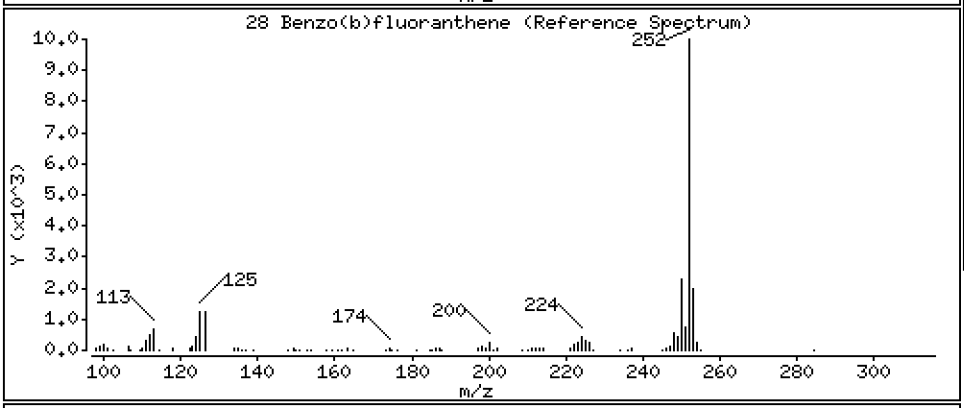
Concentration: 2.888 ug/L

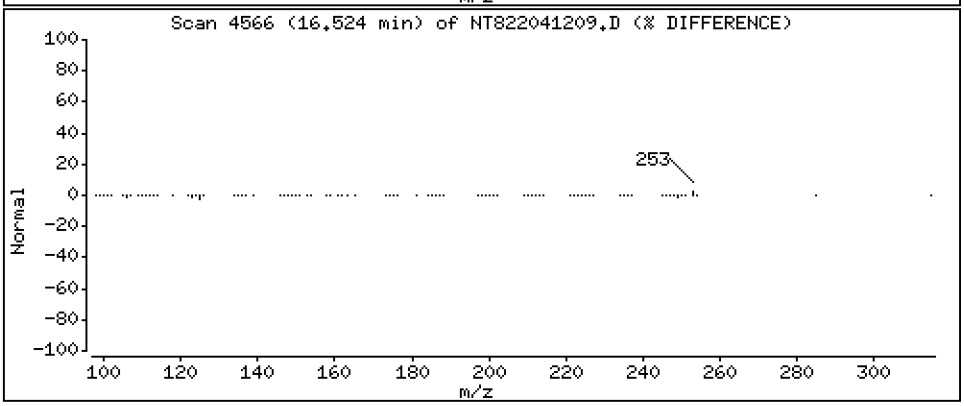












Date : 12-APR-2022 16:16

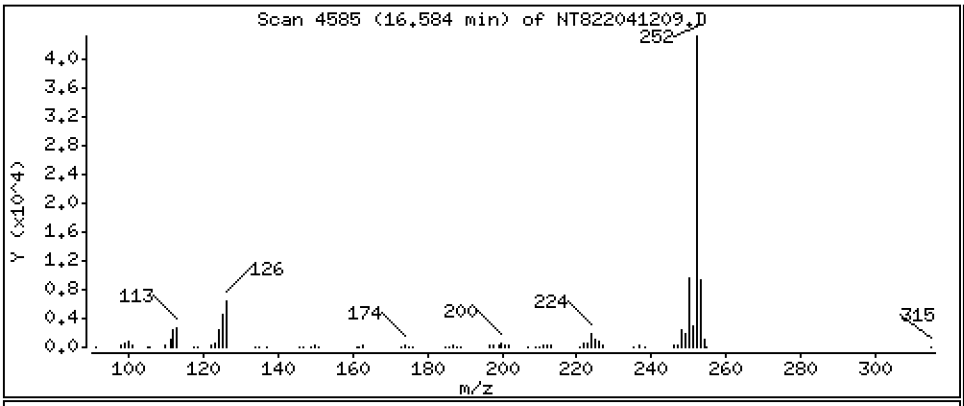
Client ID: Instrument: nt8.i

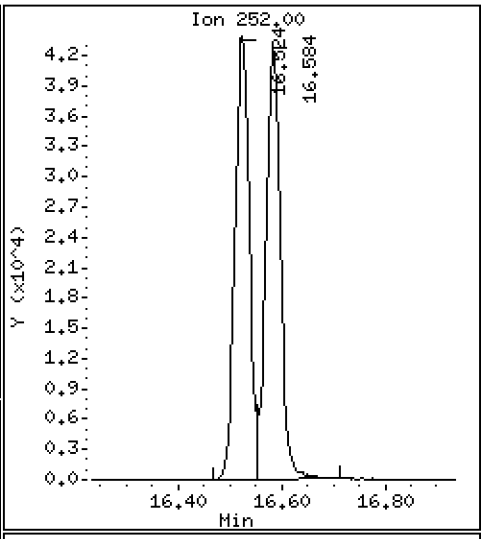
Sample Info: SCV220411,

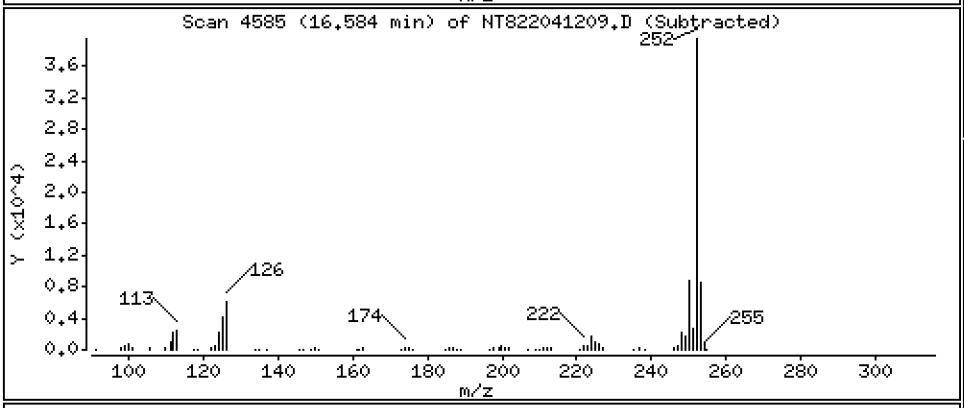
Volume Injected (uL): 1.0 Operator: JZ

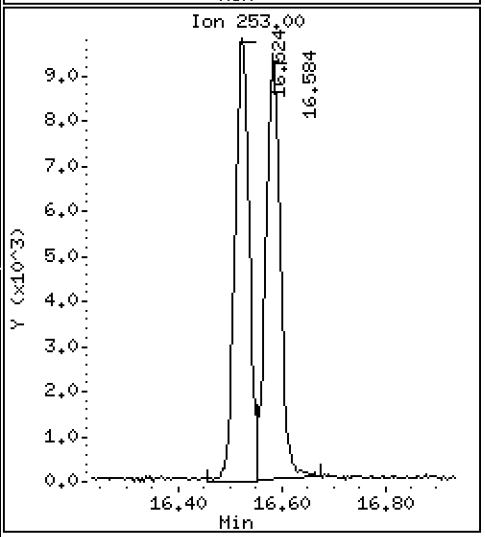
Column phase: Rxi-17sil Column diameter: 0.25

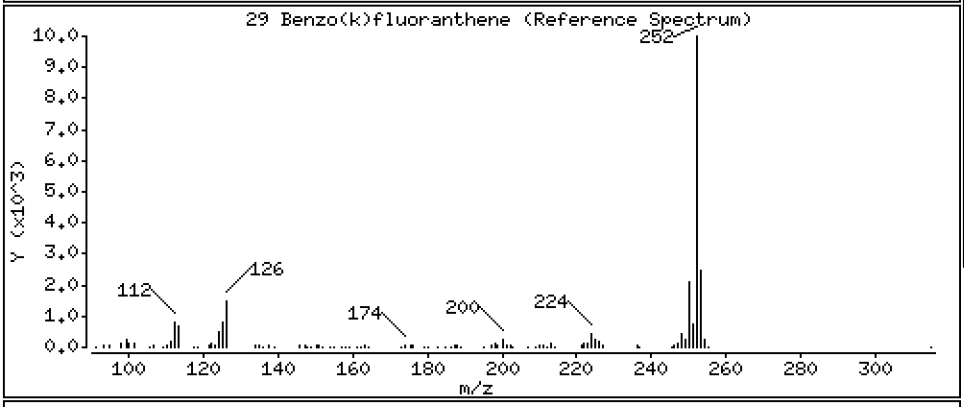
29 Benzo(k)fluoranthene Concentration: 3.083 ug/L

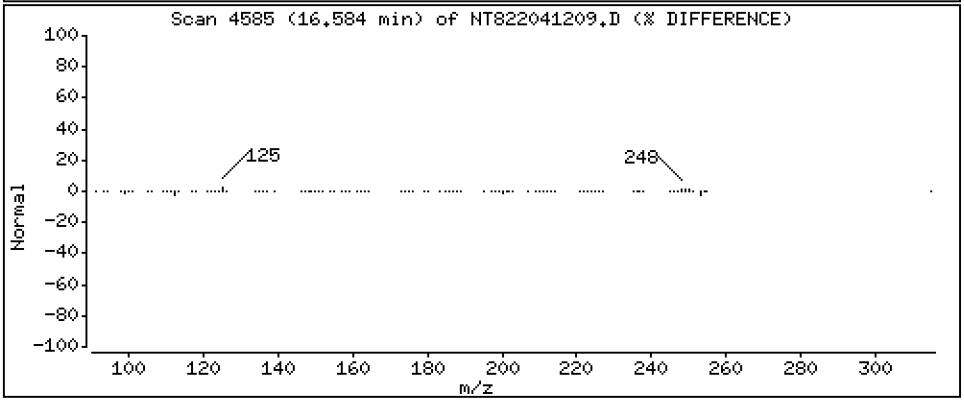












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

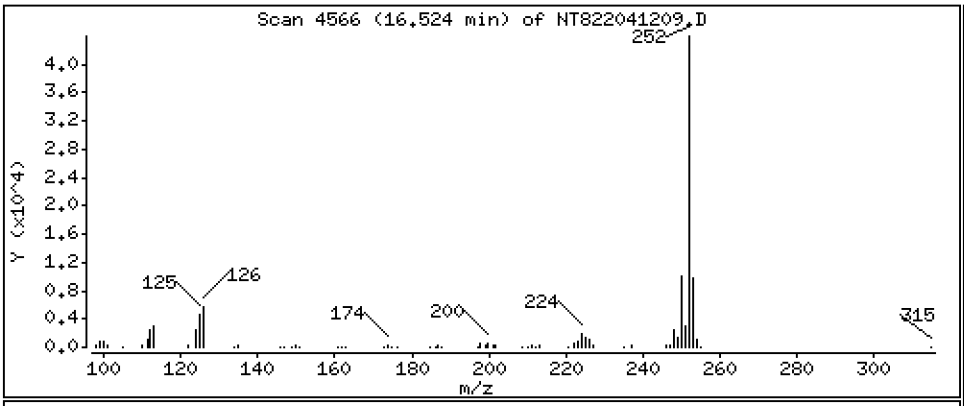
Operator: JZ

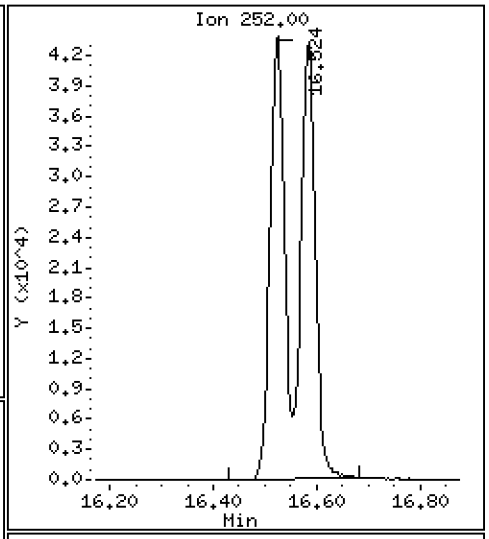
Column phase: Rxi-17sil

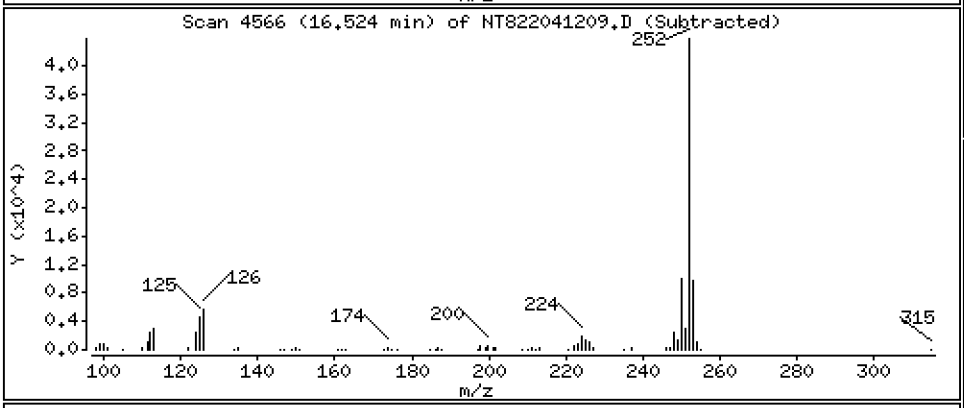
Column diameter: 0.25

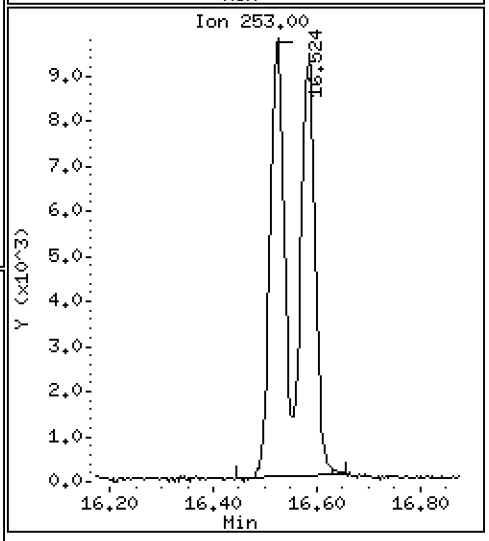
31 Total Benzofluoranthenes

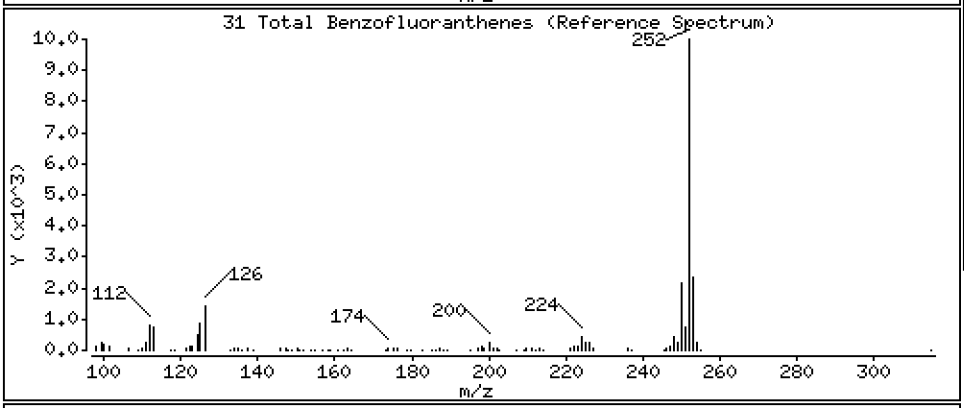
Concentration: 6.100 ug/L

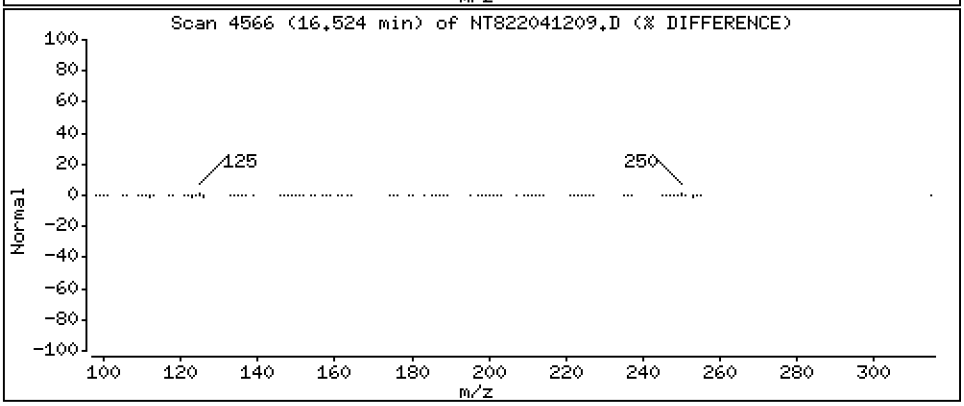












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

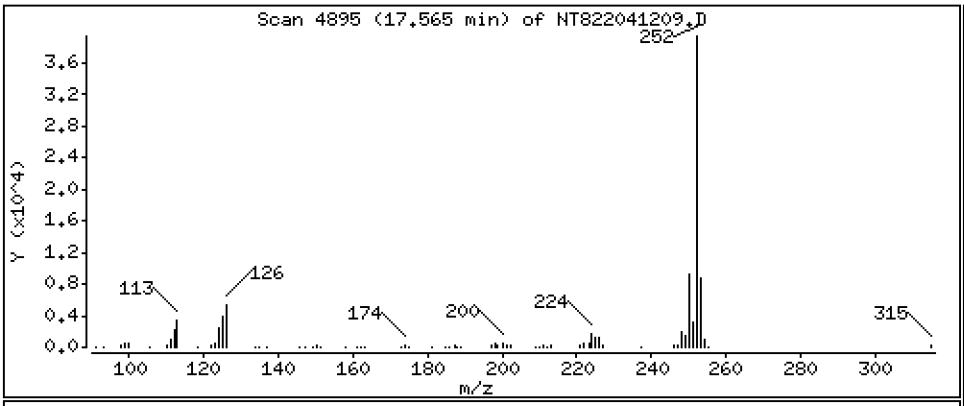
Operator: JZ

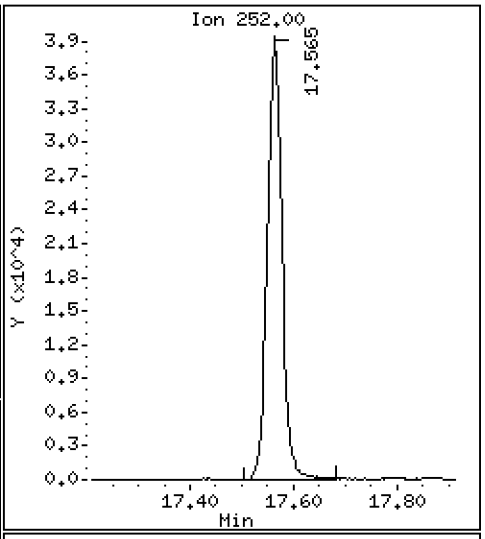
Column phase: Rxi-17sil

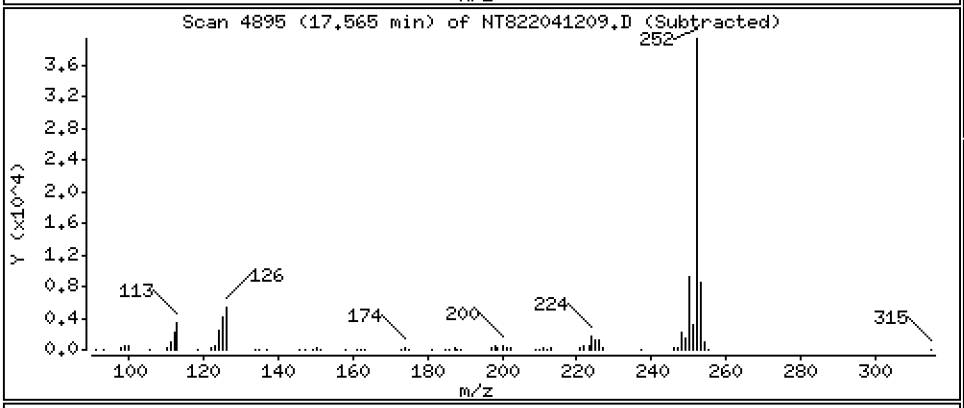
Column diameter: 0.25

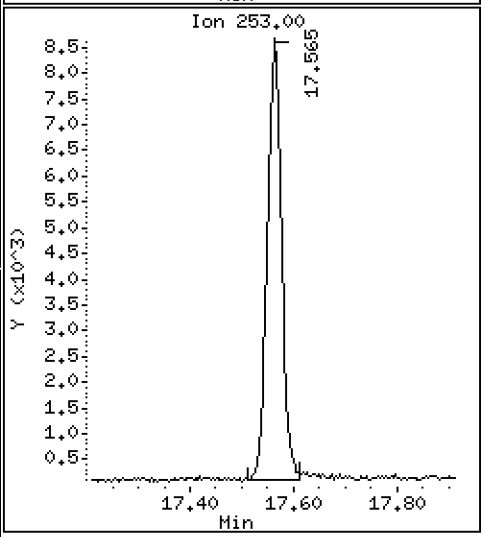
32 Benzo(a)pyrene

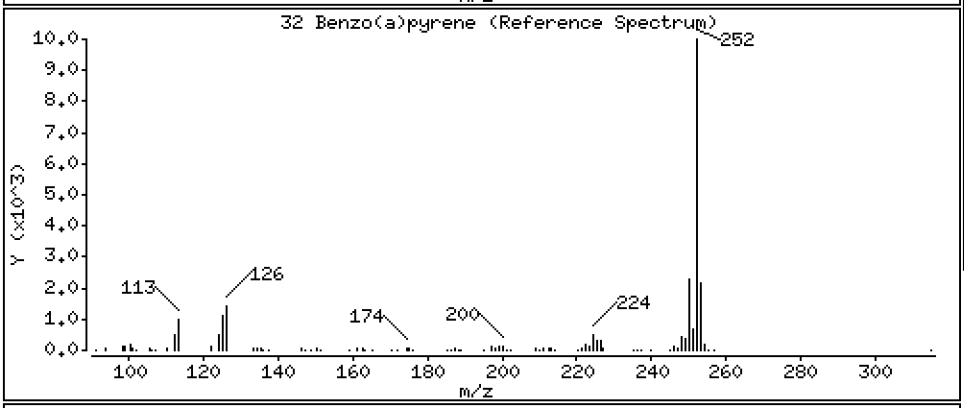
Concentration: 3.163 ug/L

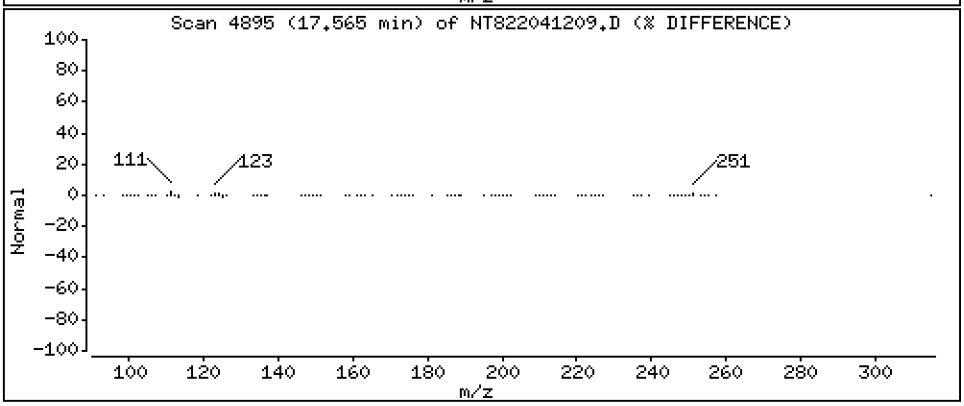












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Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

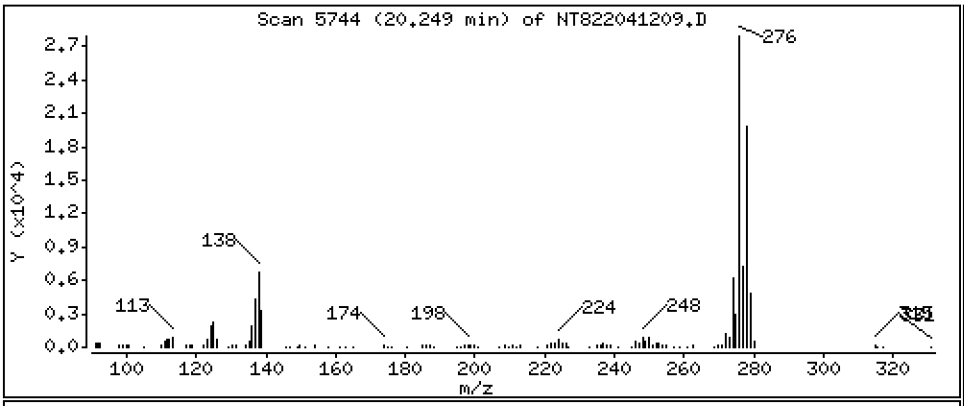
Operator: JZ

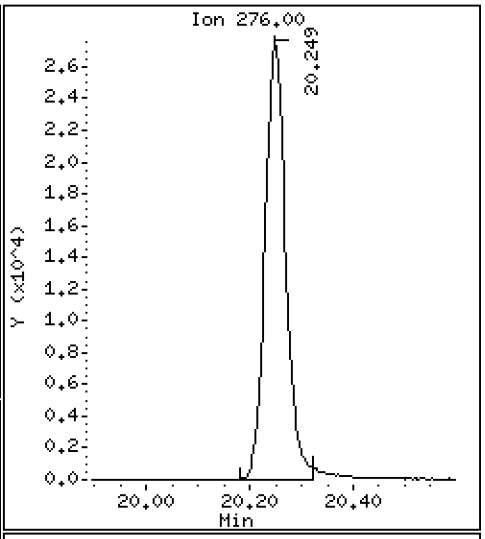
Column phase: Rxi-17sil

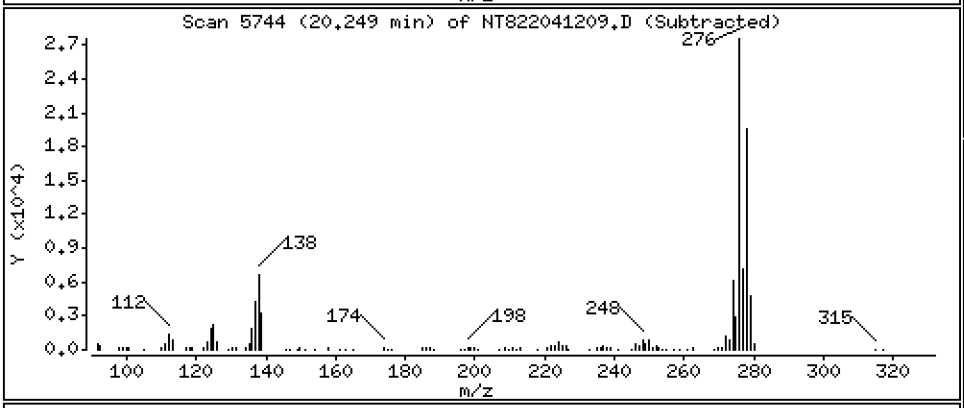
Column diameter: 0.25

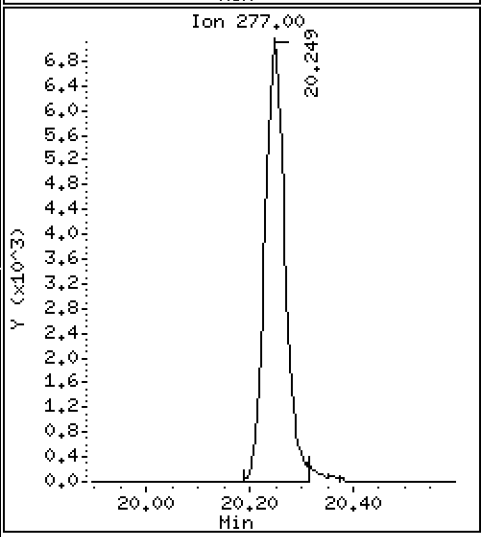
37 Indeno(1,2,3-cd)pyrene

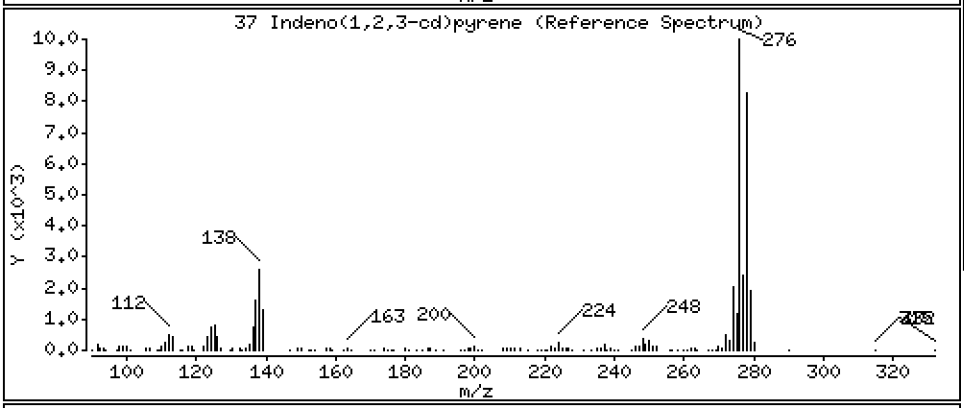
Concentration: 3.174 ug/L

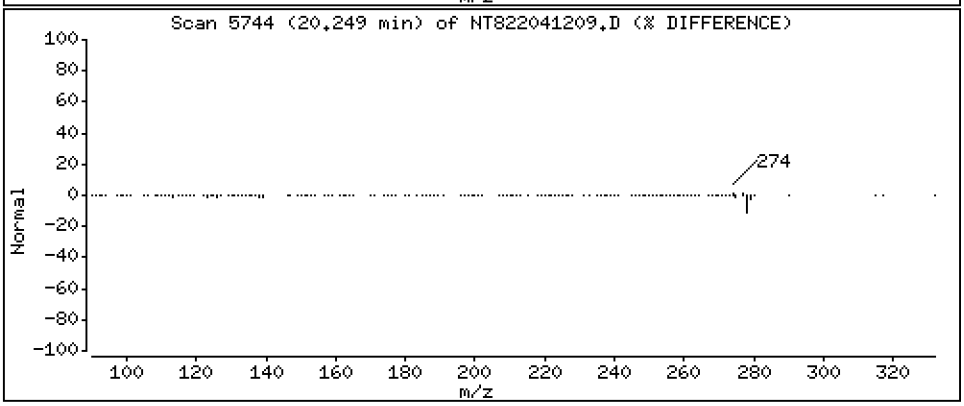












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

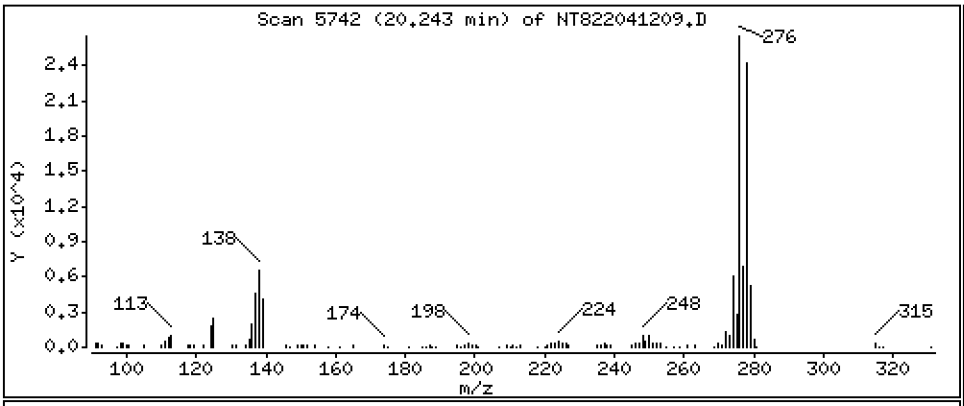
Operator: JZ

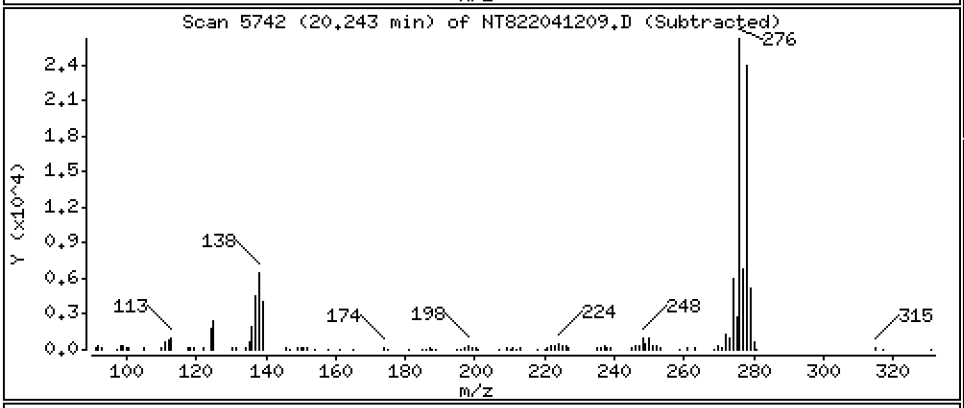
Column phase: Rxi-17sil

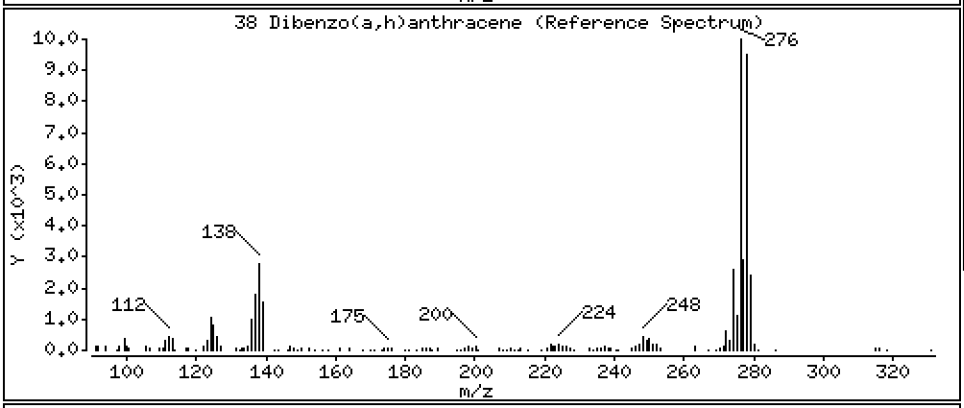
Column diameter: 0.25

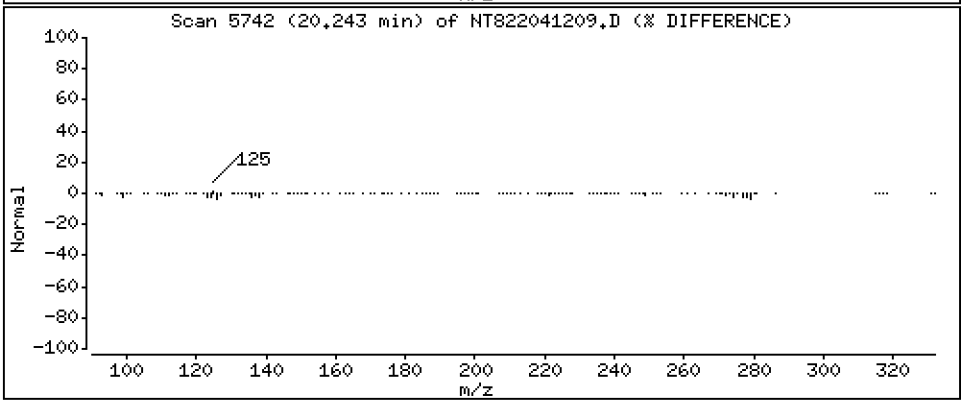
38 Dibenzo(a,h)anthracene

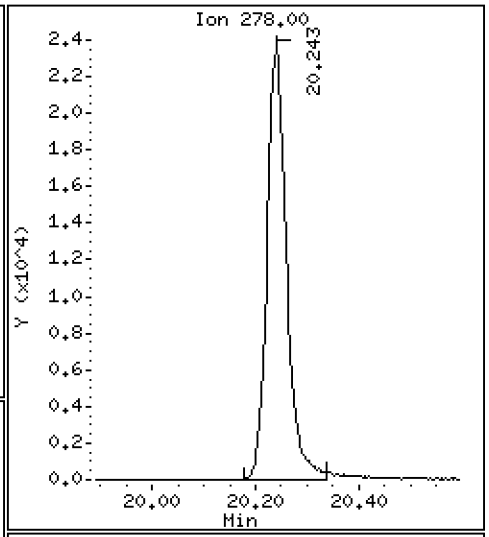
Concentration: 2.986 ug/L

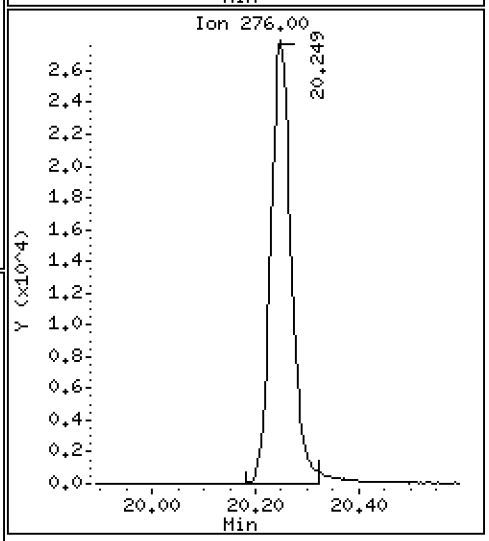












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

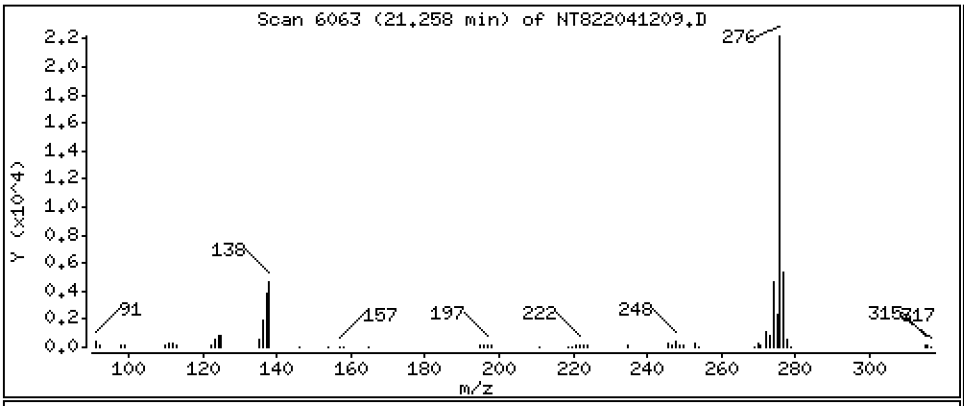
Operator: JZ

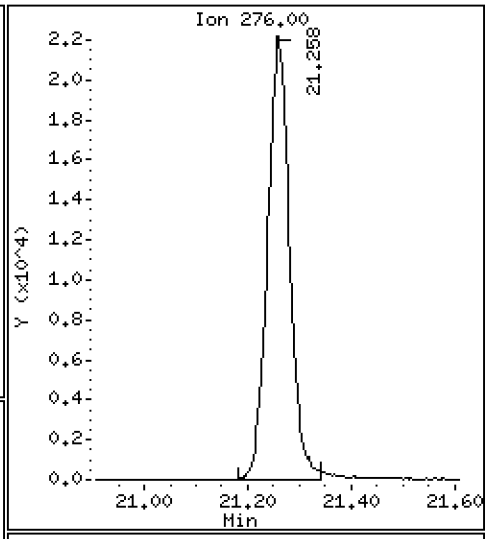
Column phase: Rxi-17sil

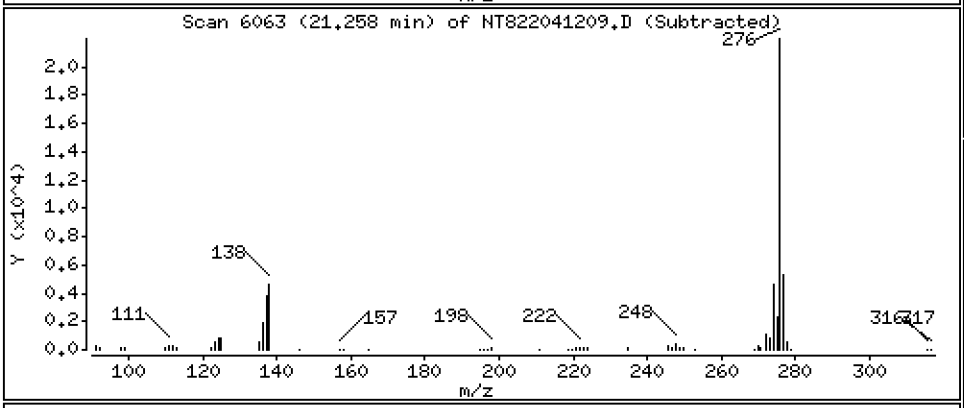
Column diameter: 0.25

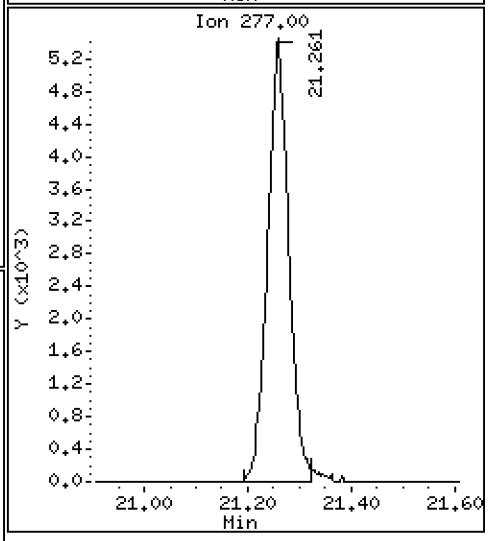
39 Benzo(g,h,i)perylene

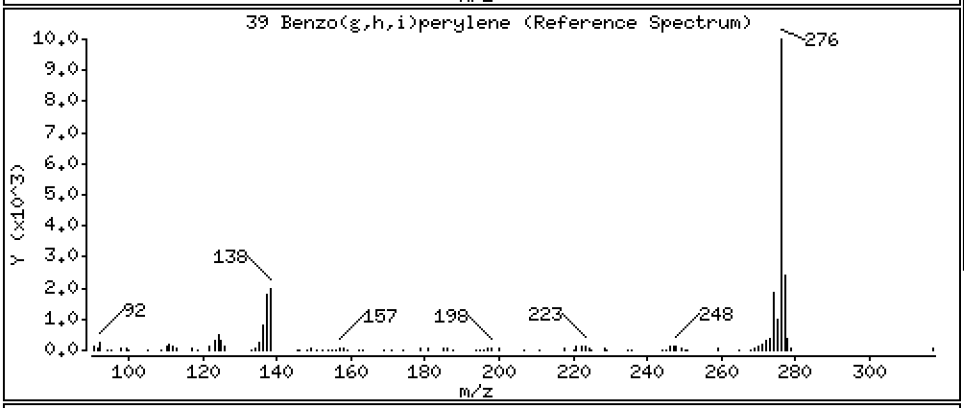
Concentration: 2.921 ug/L

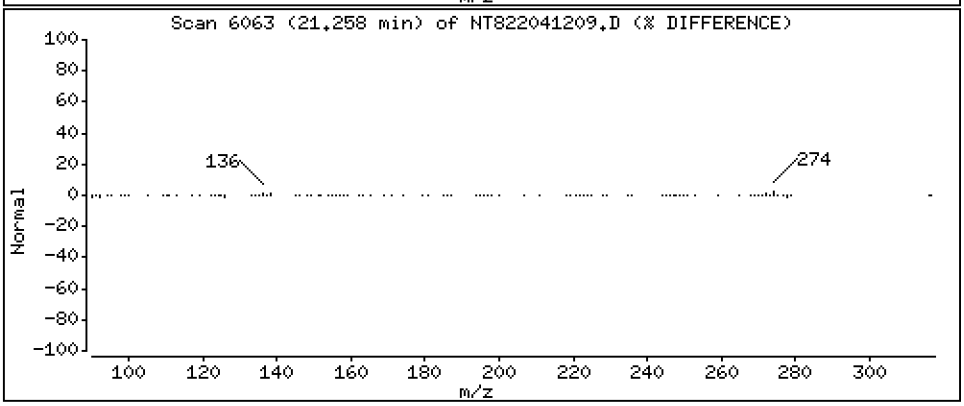












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20220412.b\NT822041209.D
Lab Smp Id: SKD0159-SCV1
Inj Date : 12-APR-2022 16:16
Operator : JZ Inst ID: nt8.i
Smp Info : SCV220411,
Misc Info : 22-
Comment   : 1ul Injection
Method   : \\target\share\chem3\nt8.i\20220412.b\FSIMPNA220411.m
Meth Date : 25-Apr-2022 12:21 jianqing Quant Type: ISTD
Cal Date : 12-APR-2022 15:49 Cal File: NT822041208.D
Als bottle: 9 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnascv.sub
Target Version: 4.14
Processing Host: JIANQING-202105

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	500.000	Volume of final extract (uL)
Vo	500.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
*	1 Naphthalene-d8	136	4.799	4.799	(1.000)	54442	2.00000	
	2 Naphthalene	128	4.828	4.828	(1.006)	77605	2.81321	2.813
$	3 2-Methylnaphthalene-d10	152	Compound Not Detected.					
	4 2-Methylnaphthalene	141	5.574	5.574	(1.161)	45640	2.90766	2.908
	5 1-methylnaphthalene	141	5.770	5.770	(1.202)	46068	3.00121	3.001
	9 Acenaphthylene	152	6.965	6.965	(0.984)	84792	2.96909	2.969
*	10 Acenaphthene-d10	164	7.076	7.076	(1.000)	33053	2.00000	
	11 Acenaphthene	153	7.126	7.126	(1.007)	50658	2.67341	2.673
	12 Dibenzofuran	168	7.275	7.275	(1.028)	84865	3.19228	3.192
	14 Fluorene	166	7.749	7.749	(1.095)	60386	2.82353	2.824
*	15 Phenanthrene-d10	188	9.103	9.103	(1.000)	57165	2.00000	
	16 Phenanthrene	178	9.138	9.137	(1.004)	87974	2.90100	2.901
	17 Anthracene	178	9.179	9.179	(1.008)	86805	2.98854	2.989
	22 Fluoranthene	202	10.877	10.877	(1.195)	98897	2.98056	2.981
$	21 Fluoranthene-d10	212	Compound Not Detected.					
	23 Pyrene	202	11.379	11.379	(0.816)	101285	3.03352	3.034(M)
	24 Benzo(a)anthracene	228	13.820	13.820	(0.991)	93097	2.98161	2.982
*	25 Chrysene-d12	240	13.947	13.947	(1.000)	49400	2.00000	
	27 Chrysene	228	14.020	14.020	(1.005)	87014	2.91655	2.917
	28 Benzo(b)fluoranthene	252	16.524	16.524	(0.929)	86821	2.88824	2.888
	29 Benzo(k)fluoranthene	252	16.584	16.584	(0.932)	85979	3.08332	3.083
	31 Total Benzofluoranthenes	252	16.524	16.524	(0.929)	169131	6.10024	6.100(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	32 Benzo(a)pyrene	252	17.564	17.561	(0.987)	78493	3.16331	3.163
*	33 Perylene-d12	264	17.792	17.795	(1.000)	42338	2.00000	
	37 Indeno(1,2,3-cd)pyrene	276	20.249	20.245	(1.138)	77240	3.17379	3.174
$	36 Dibenzo(a,h)anthracene-d14	292	Compound Not Detected.					
	38 Dibenzo(a,h)anthracene	278	20.242	20.242	(1.138)	62700	2.98649	2.986
	39 Benzo(g,h,i)perylene	276	21.257	21.257	(1.195)	66126	2.92092	2.921
	35 Perylene	252	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt8.i
Lab File ID: NT822041209.D
Lab Smp Id: SKD0159-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: \\target\share\chem3\nt8.i\20220412.b\FSIMPNA220411.m
Misc Info: 22-

Calibration Date: 12-APR-2022
Calibration Time: 14:55
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	56136	28068	112272	54442	-3.02
10 Acenaphthene-d10	32604	16302	65208	33053	1.38
15 Phenanthrene-d10	58288	29144	116576	57165	-1.93
25 Chrysene-d12	52801	26401	105602	49400	-6.44
33 Perylene-d12	42745	21373	85490	42338	-0.95

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	4.80	4.30	5.30	4.80	0.00
10 Acenaphthene-d10	7.08	6.58	7.58	7.08	0.00
15 Phenanthrene-d10	9.10	8.60	9.60	9.10	0.00
25 Chrysene-d12	13.95	13.45	14.45	13.95	0.00
33 Perylene-d12	17.80	17.30	18.30	17.79	-0.02

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

REVIEW SUMMARY FOR FILE - NT822041209.D

Lab ID: SKD0159-SCV1
nt8.i, 20220412.b\FSIMPNA220411.m,   12-APR-2022 16:16

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

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

No RRT check performed

On Column LOD for nt8.i, 20220412.b\FSIMPNA220411.m, pnascv.sub = 0.0500

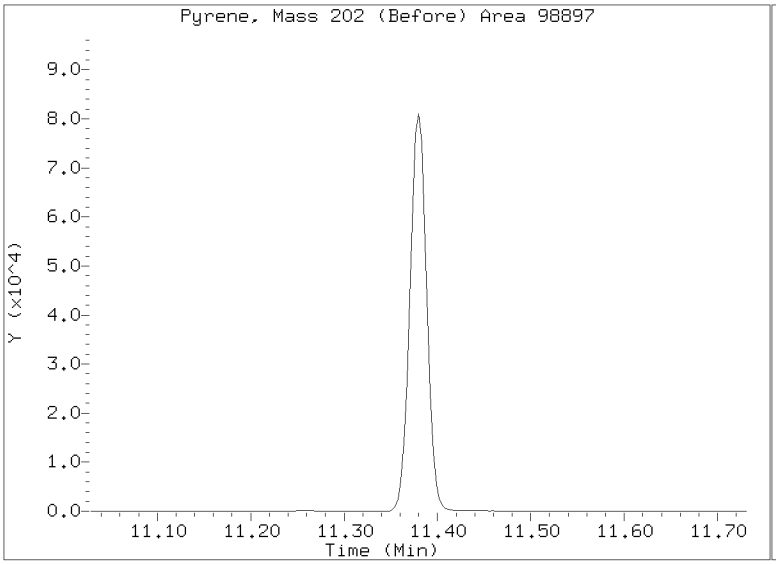
Exception: Benzo(b)fluoranthene 0.0300
Exception: Benzo(k)fluoranthene 0.0300
Exception: Total Benzofluoranthenes 0.0300
Exception: Fluoranthene-d10 (Surr) 0.0000

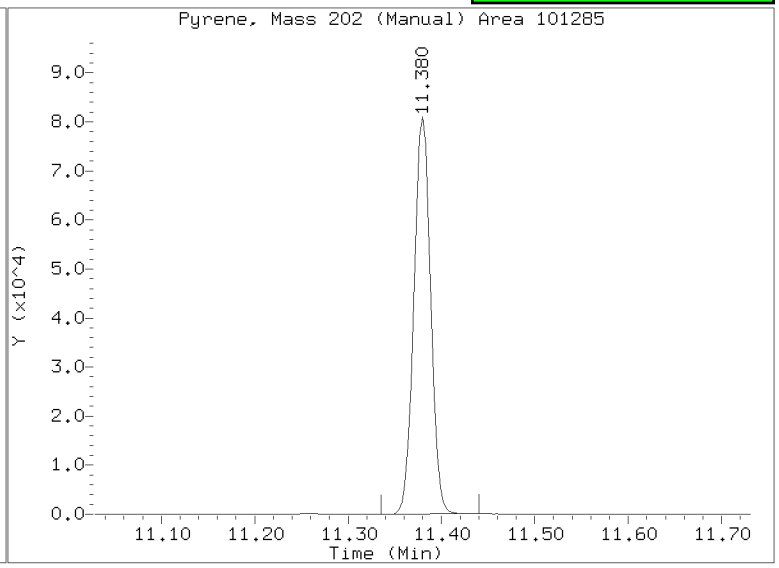
* Only compounds listed in the work order have been verified by the analyst *

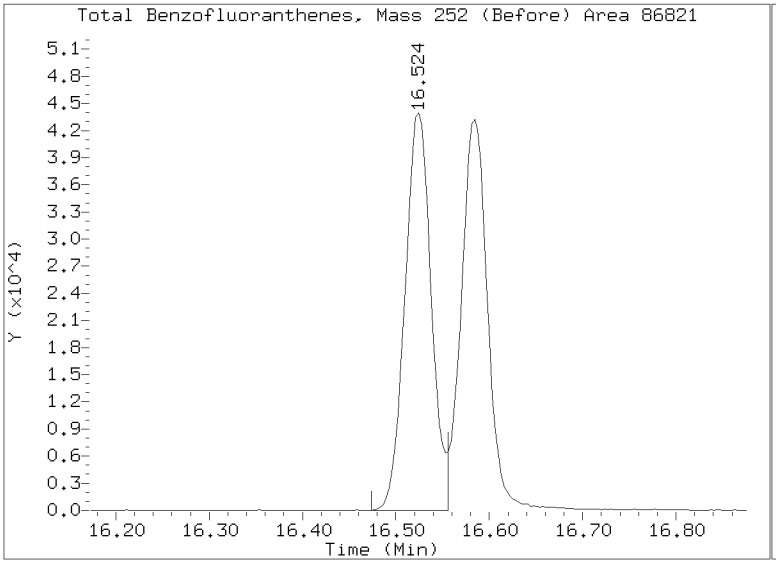
Quant Ion Manual Peak Adjustment Report

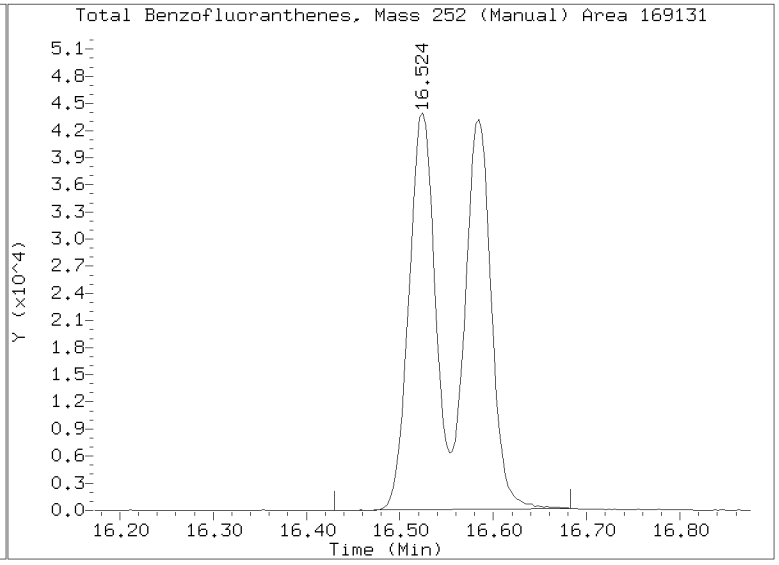
Datafile: //target/share/chem3/nt8.i/20220412.b/NT822041209.D
Injection Date: 12-APR-2022 16:16
Lab ID:SKD0159-SCV1 Client ID:
Report Date: 04/25/2022 12:21

REVIEWED
By Mark Weidner
11/30/2022 @ 12:23 PM









Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270E-SIM

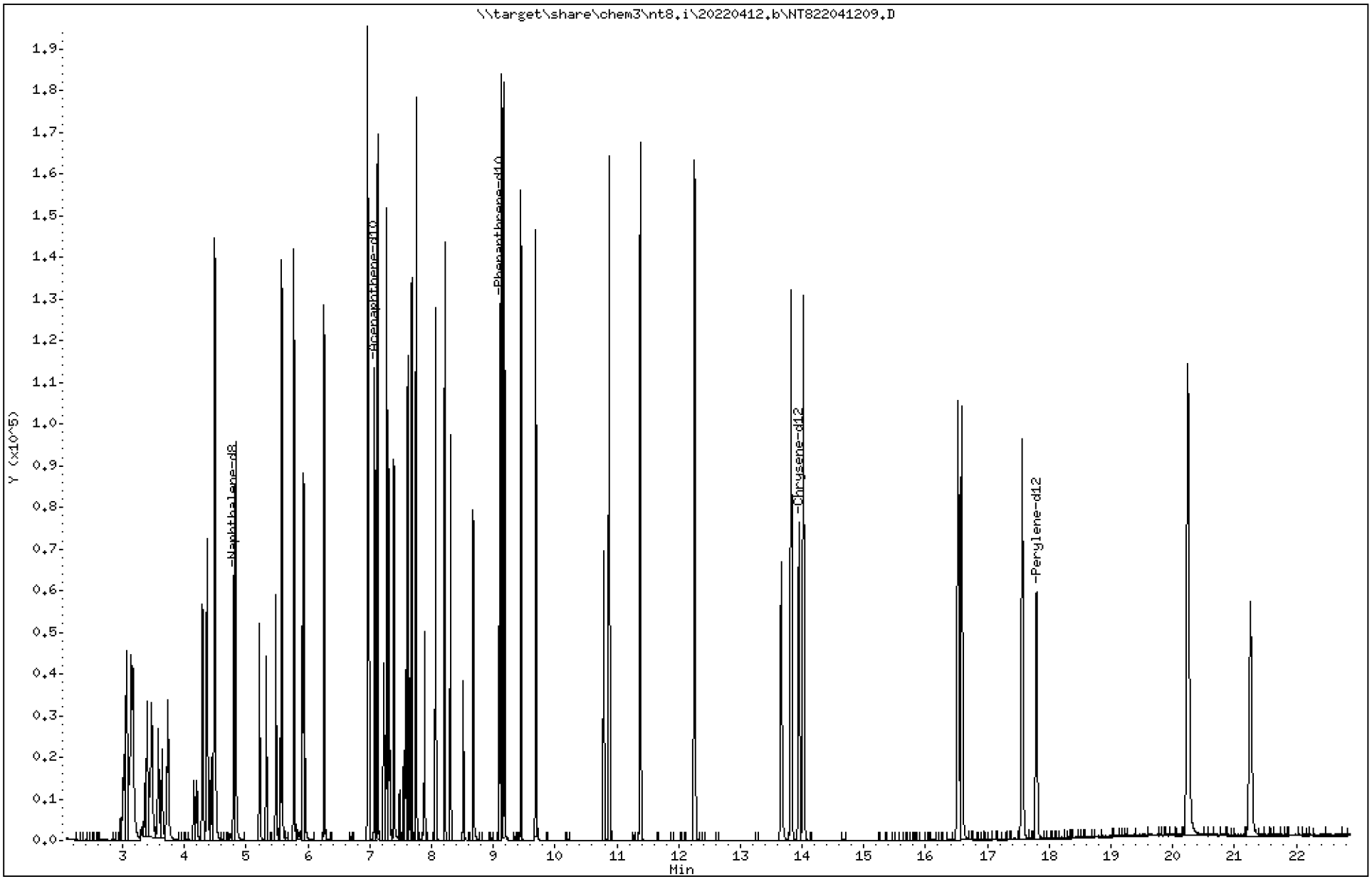
Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FD00034
Laboratory ID: SKD0159-SCV1
Sequence: SKD0159
Standard ID: K000320

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Naphthalene	2.5000	2.81	12.5	
2-Methylnaphthalene	2.5000	2.91	16.3	
1-Methylnaphthalene	2.5000	3.00	20.0	
Acenaphthylene	2.5000	2.97	18.8	
Acenaphthene	2.5000	2.67	6.9	
Dibenzofuran	2.5000	3.19	27.7	
Fluorene	2.5000	2.82	12.9	
Phenanthrene	2.5000	2.90	16.0	
Anthracene	2.5000	2.99	19.5	
Fluoranthene	2.5000	2.98	19.2	
Pyrene	2.5000	3.03	21.3	
Benzo(a)anthracene	2.5000	2.98	19.3	
Chrysene	2.5000	2.92	16.7	
Benzo(b)fluoranthene	2.5000	2.89	15.5	
Benzo(k)fluoranthene	2.5000	3.08	23.3	
Benzofluoranthenes, Total	5.0000	6.10	22.0	
Benzo(a)pyrene	2.5000	3.16	26.5	
Indeno(1,2,3-cd)pyrene	2.5000	3.17	27.0	
Dibenzo(a,h)anthracene	2.5000	2.99	19.5	
Benzo(g,h,i)perylene	2.5000	2.92	16.8	

* Values outside of QC limits

Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D
Date : 12-APR-2022 16:16
Client ID:
Sample Info: SCV220411,
Volume Injected (uL): 1.0
Column phase: Rxi-17sil

Instrument: nt8.i
Operator: JZ
Column diameter: 0.25



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Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

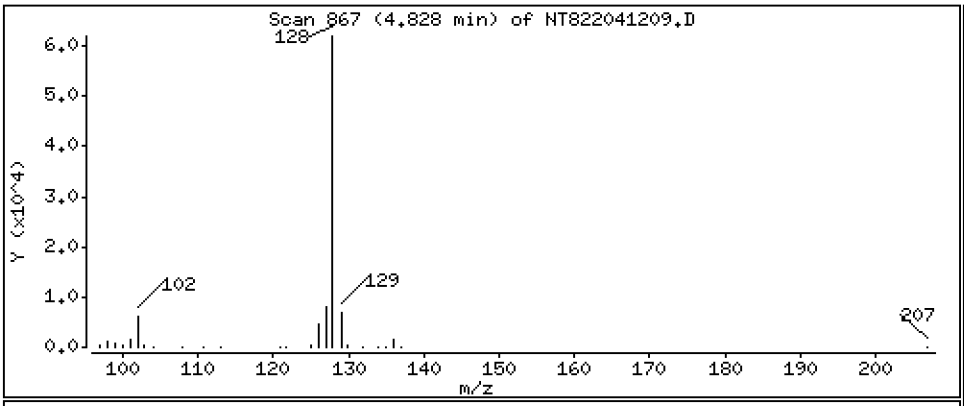
Operator: JZ

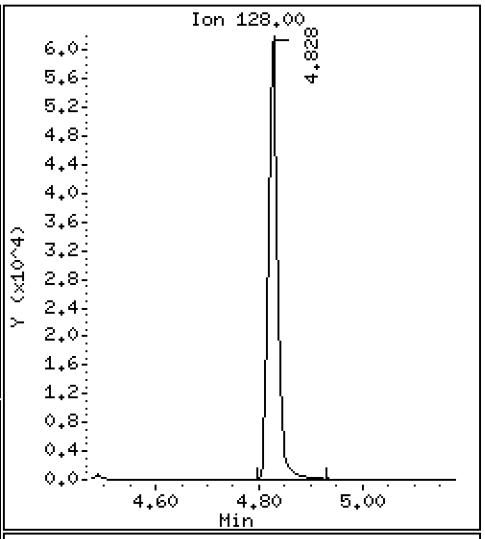
Column phase: Rxi-17sil

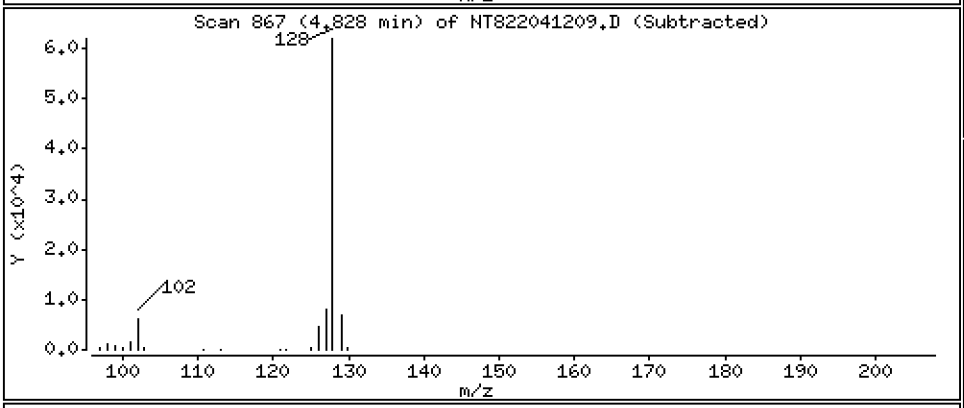
Column diameter: 0.25

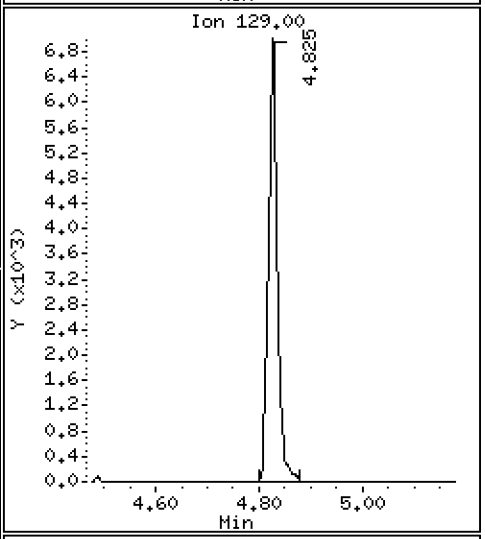
2 Naphthalene

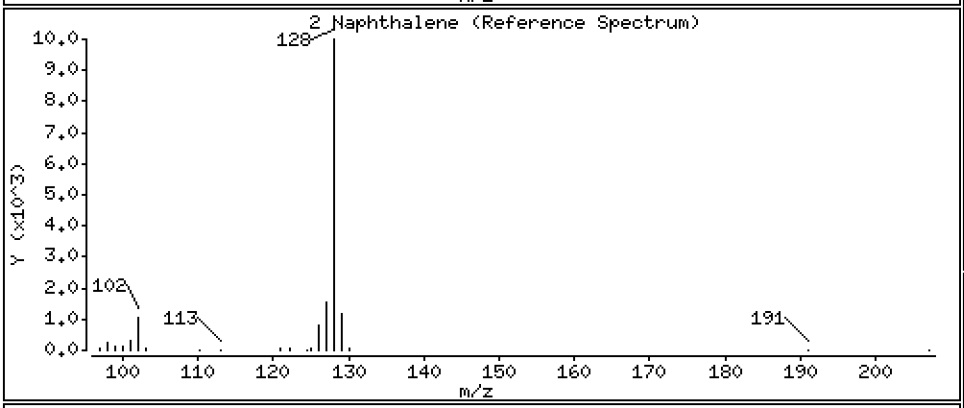
Concentration: 2.813 ug/L

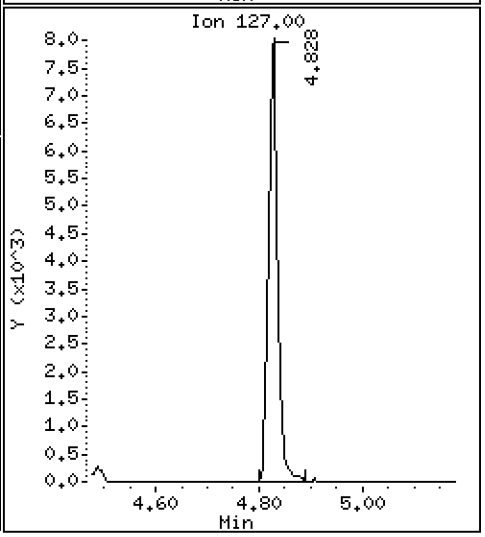


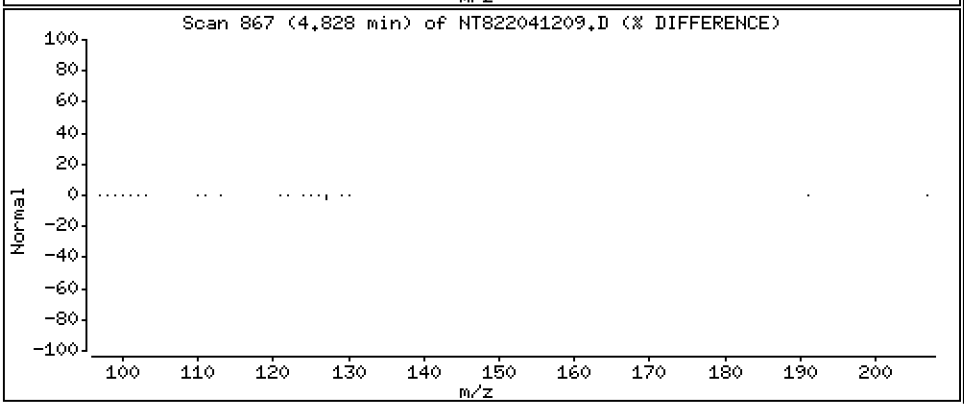












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

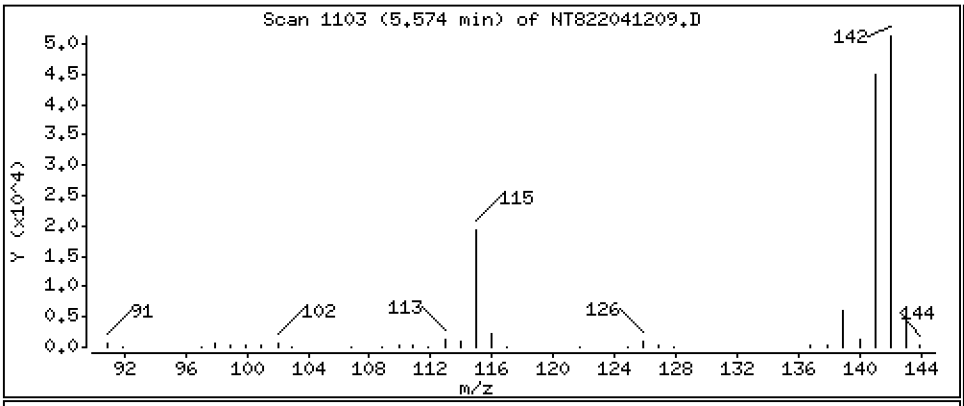
Operator: JZ

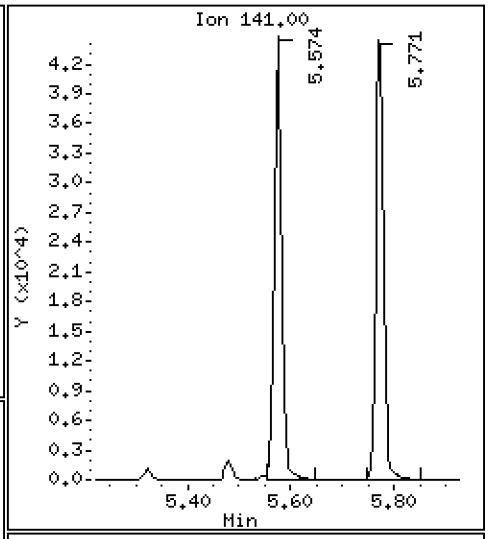
Column phase: Rxi-17sil

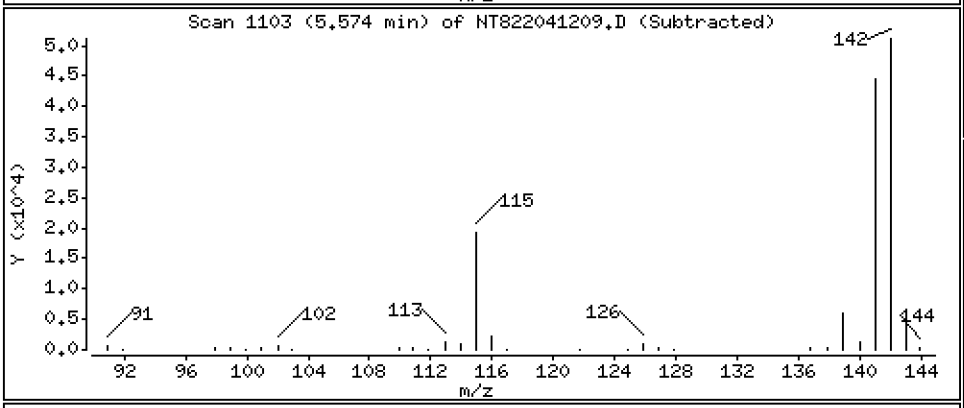
Column diameter: 0.25

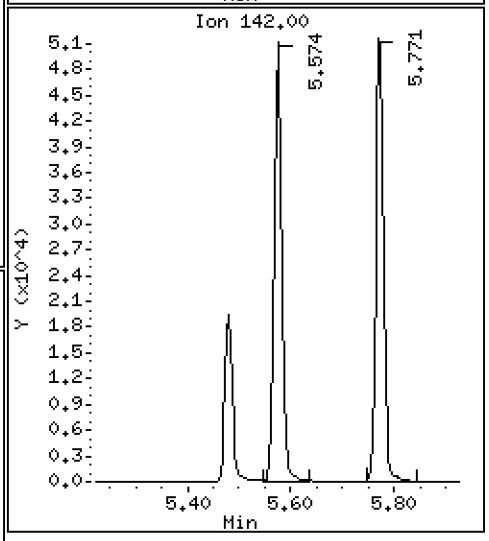
4 2-Methylnaphthalene

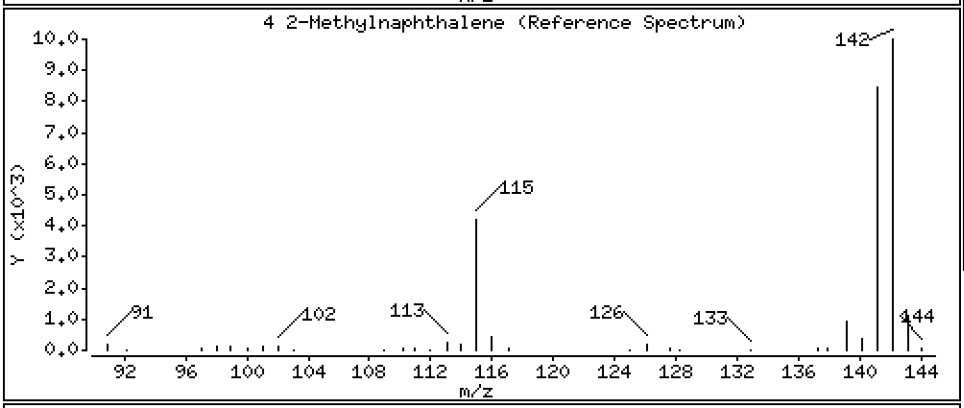
Concentration: 2.908 ug/L

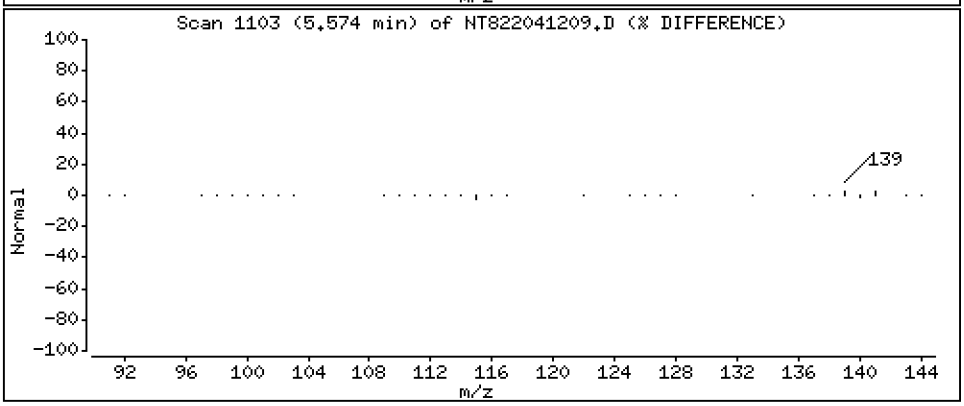












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Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

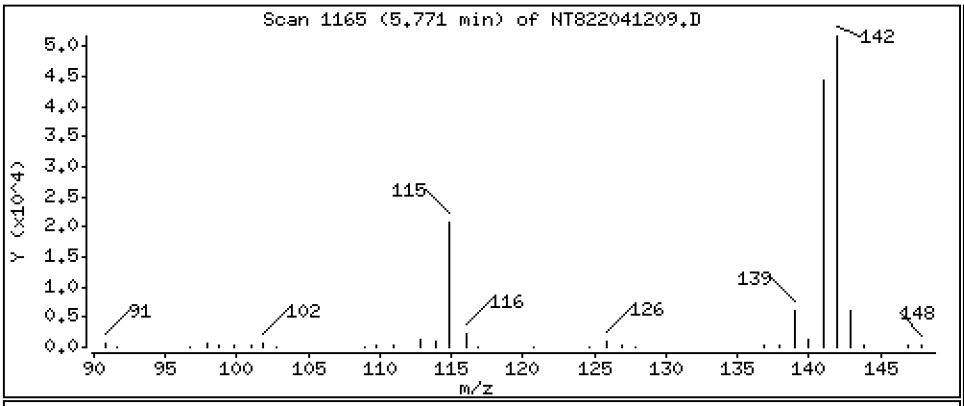
Operator: JZ

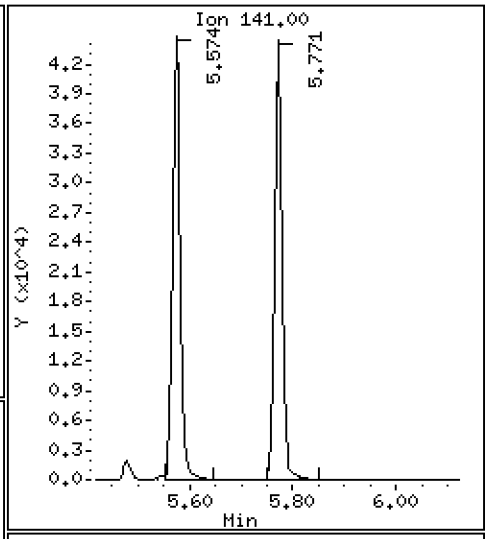
Column phase: Rxi-17sil

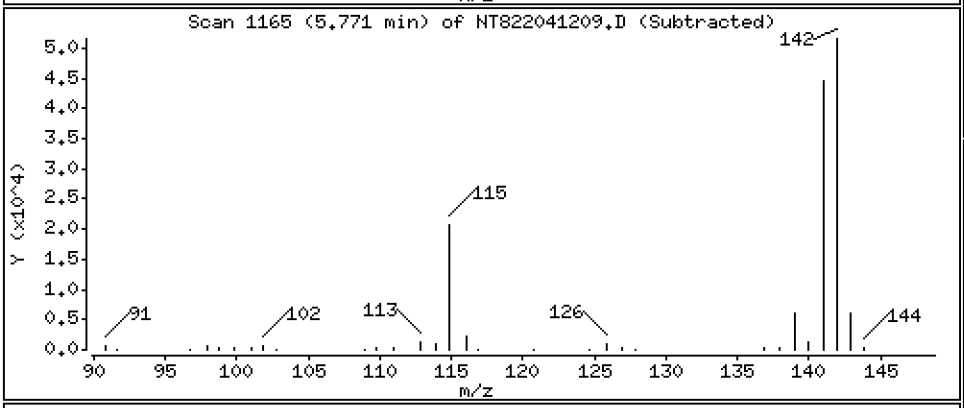
Column diameter: 0.25

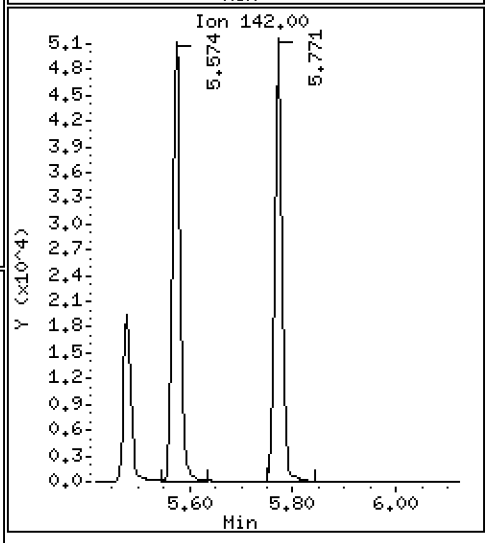
5 1-methylnaphthalene

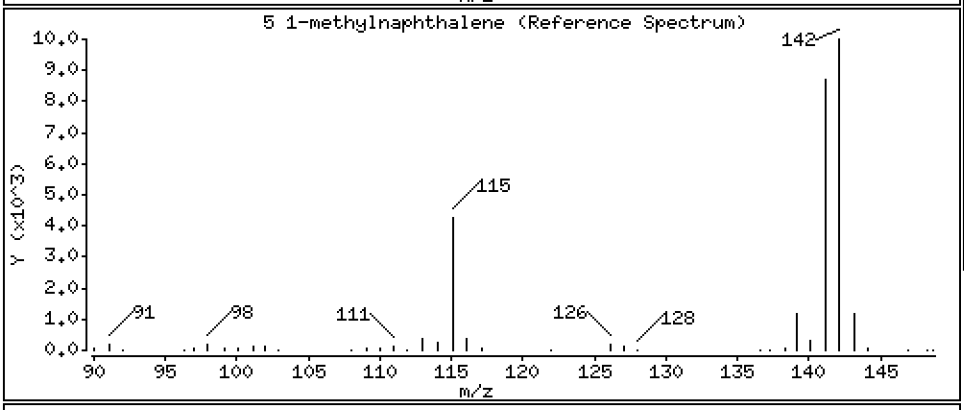
Concentration: 3.001 ug/L

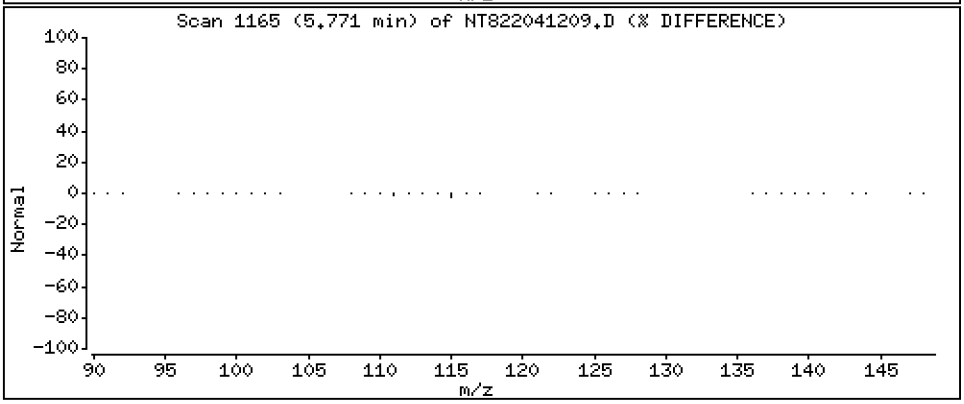












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Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

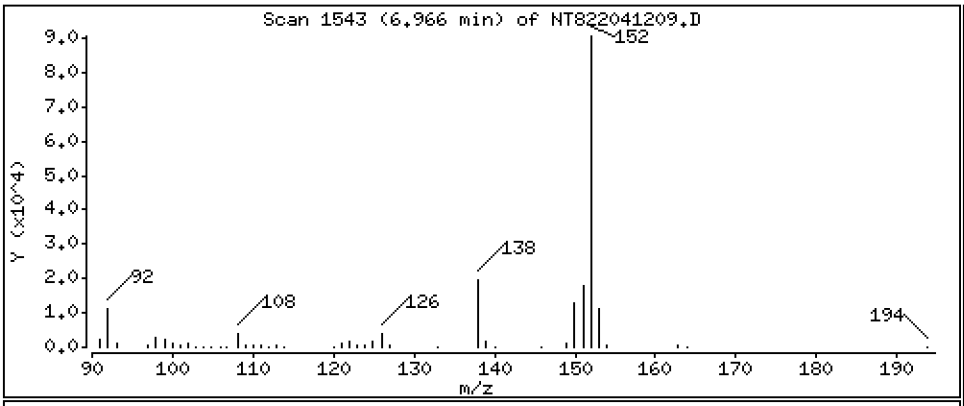
Operator: JZ

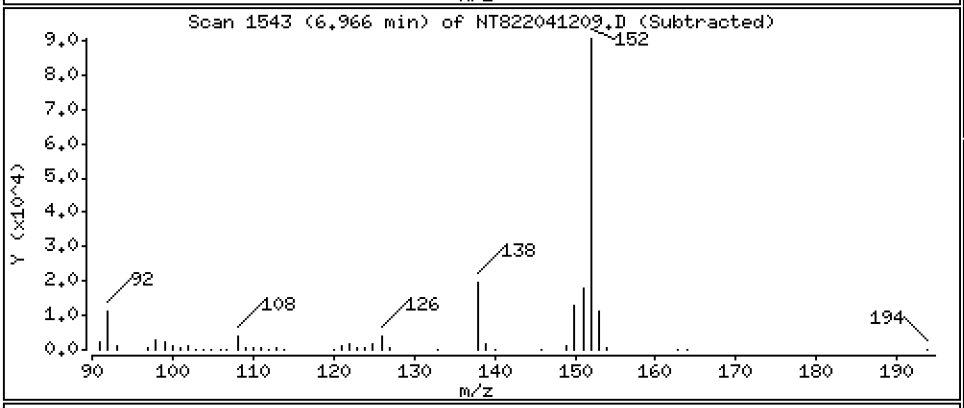
Column phase: Rxi-17sil

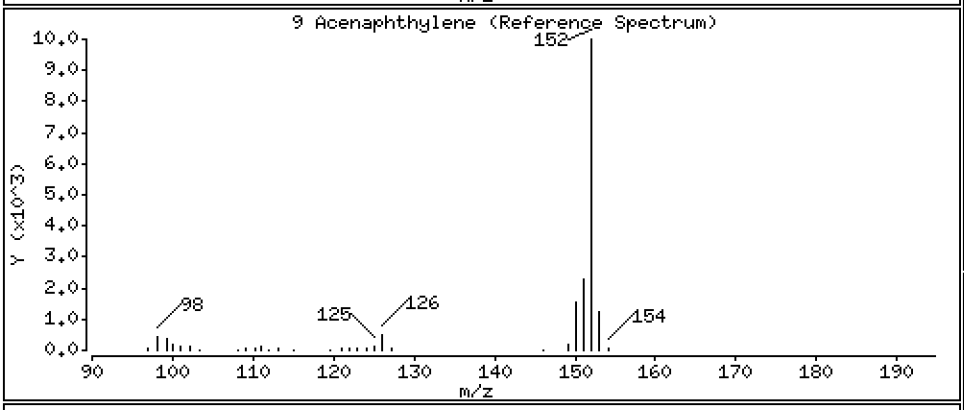
Column diameter: 0.25

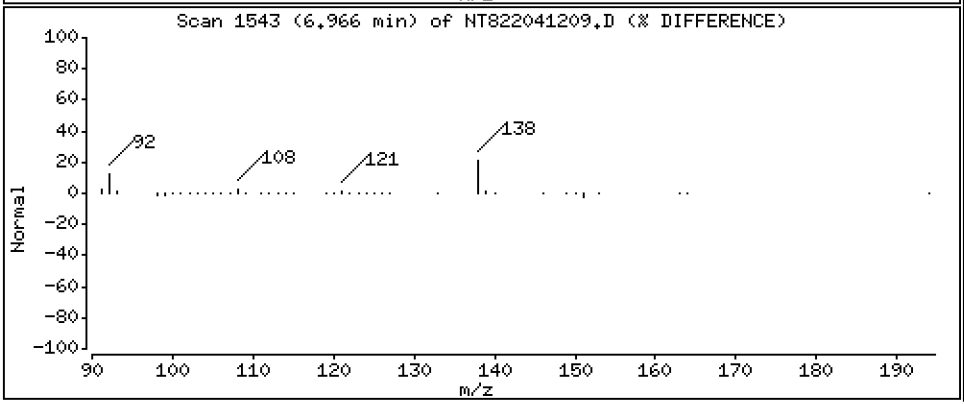
9 Acenaphthylene

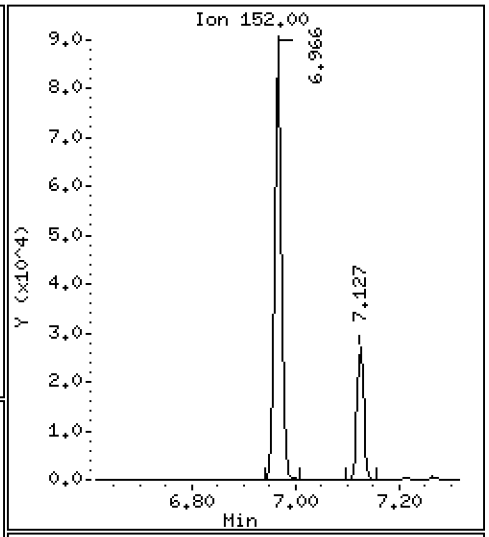
Concentration: 2.969 ug/L

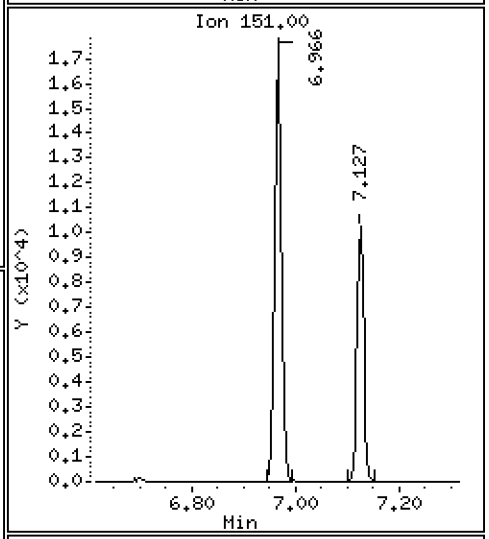


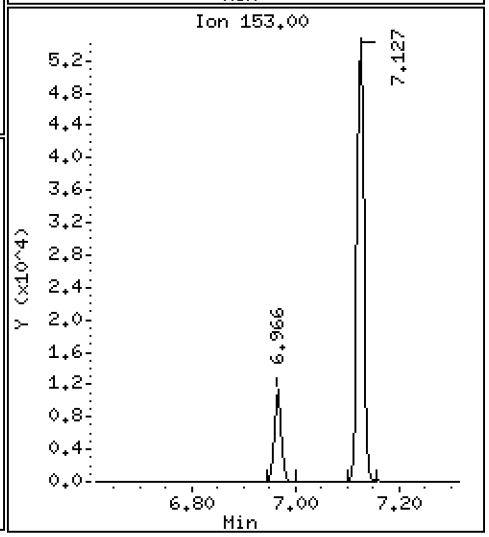












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Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

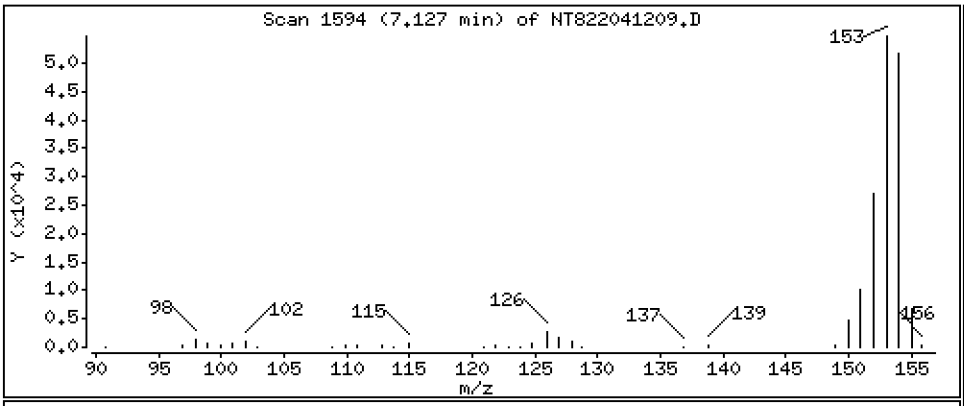
Operator: JZ

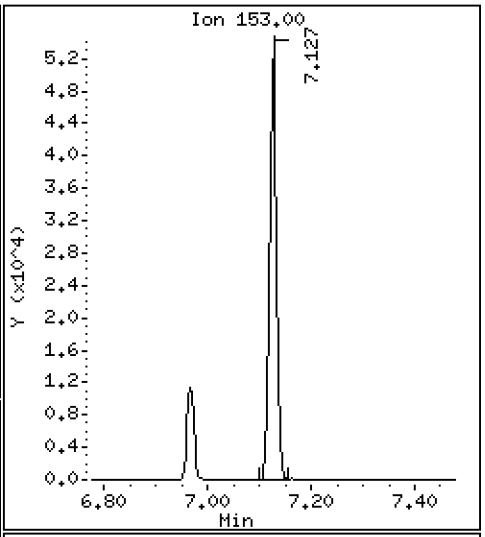
Column phase: Rxi-17sil

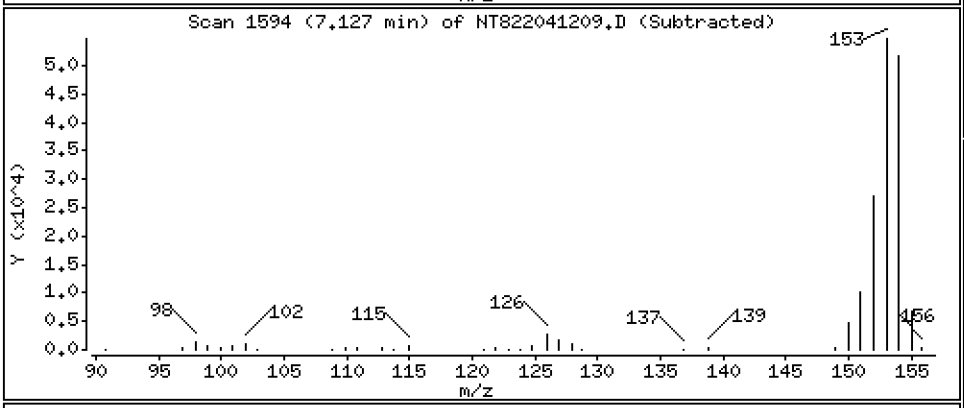
Column diameter: 0.25

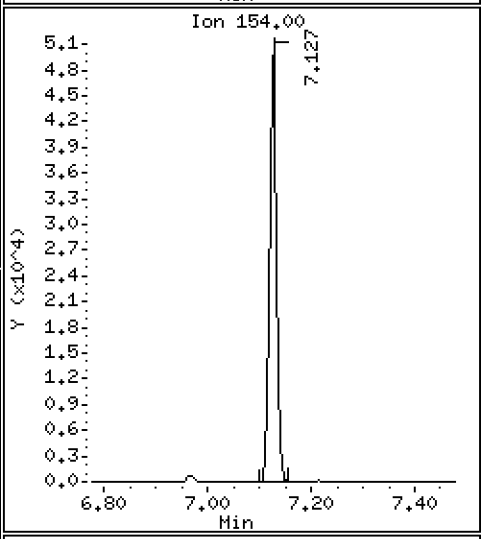
11 Acenaphthene

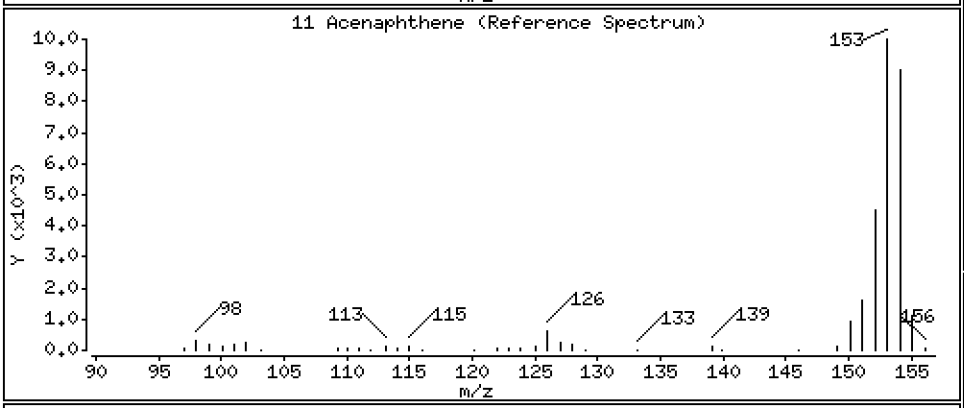
Concentration: 2.673 ug/L

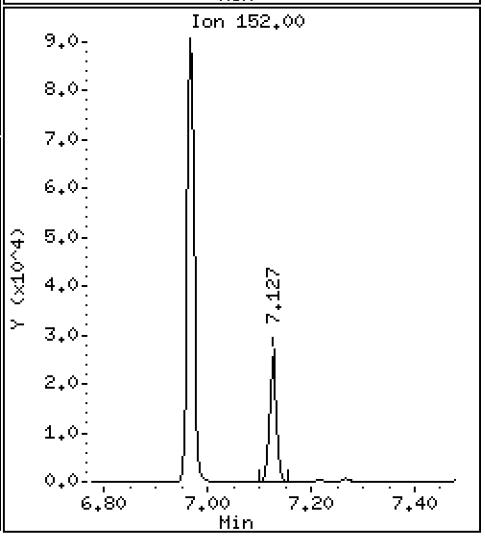


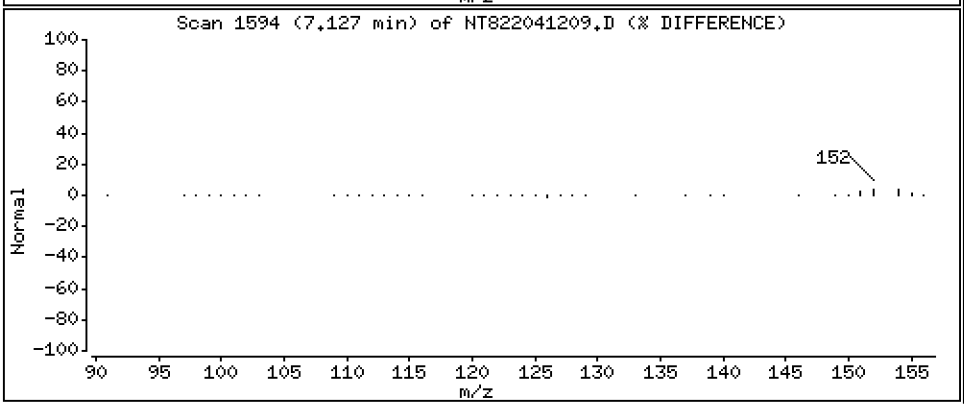












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Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

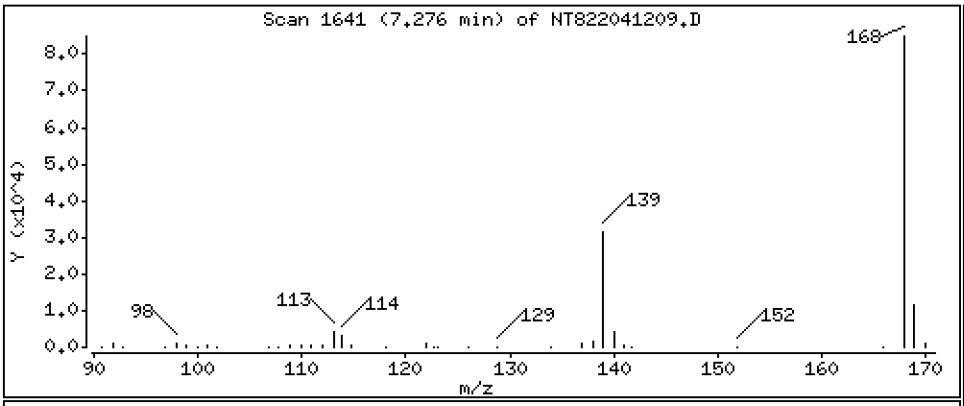
Operator: JZ

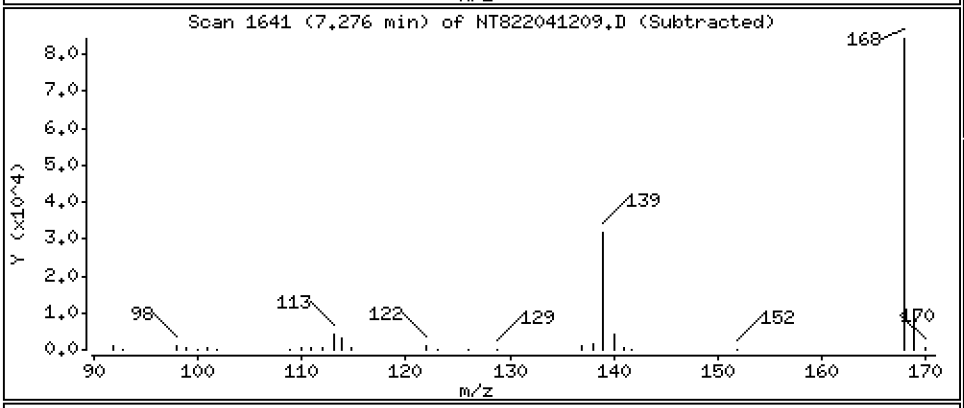
Column phase: Rxi-17sil

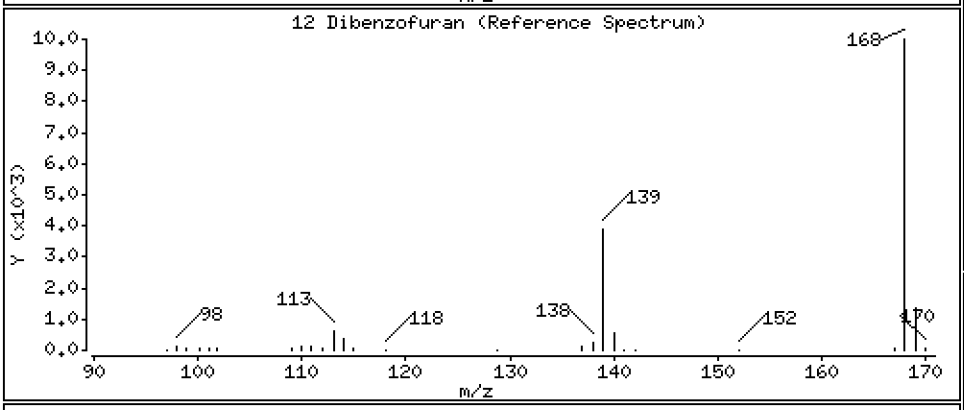
Column diameter: 0.25

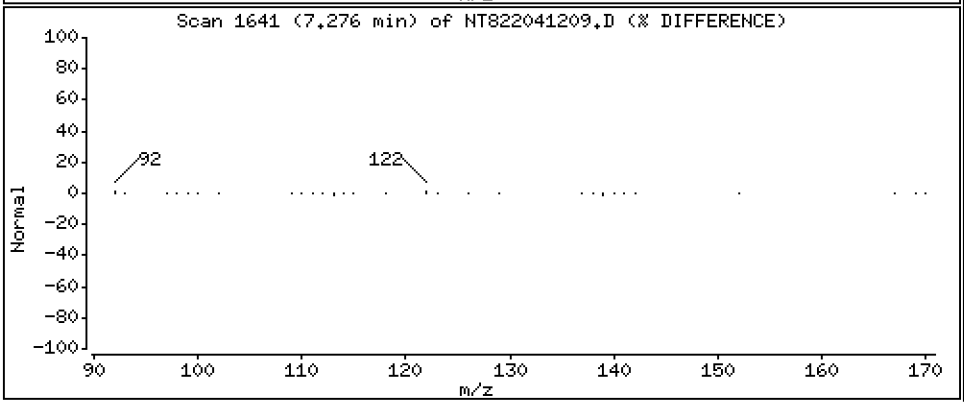
12 Dibenzofuran

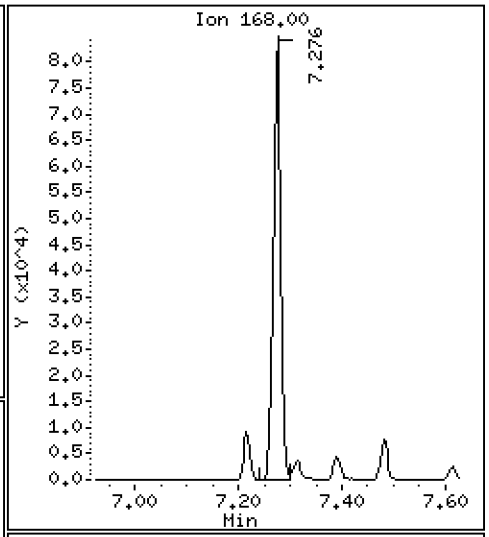
Concentration: 3.192 ug/L

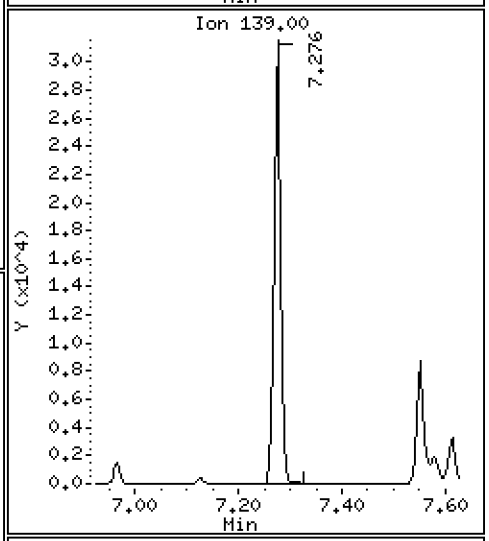


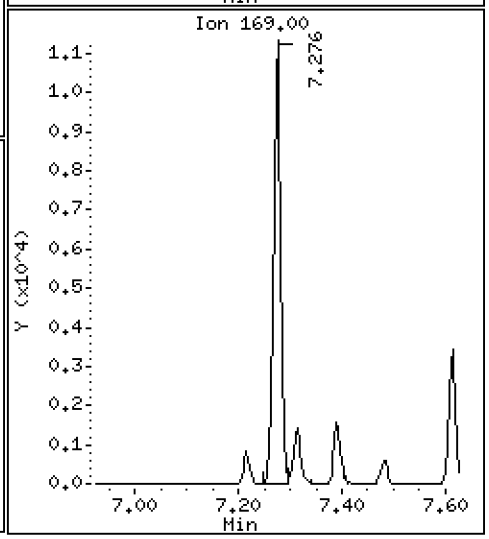












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

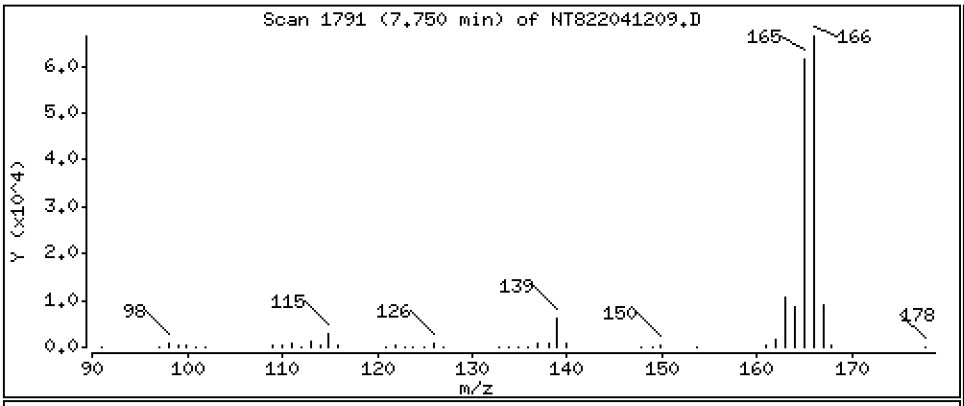
Operator: JZ

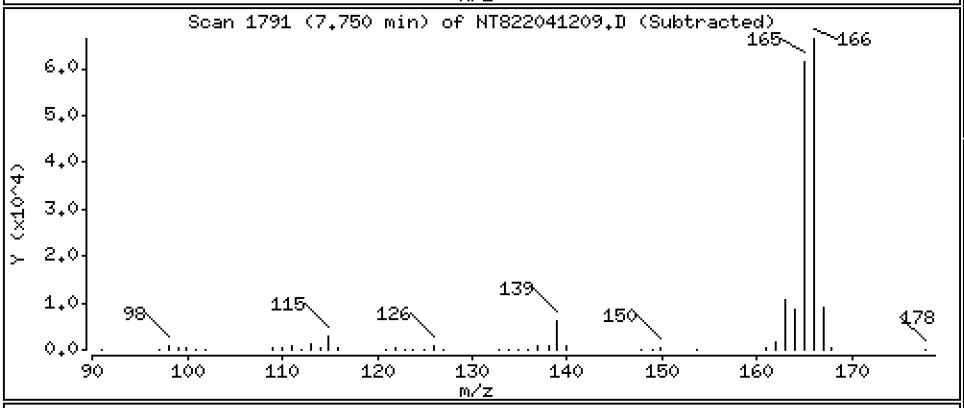
Column phase: Rxi-17sil

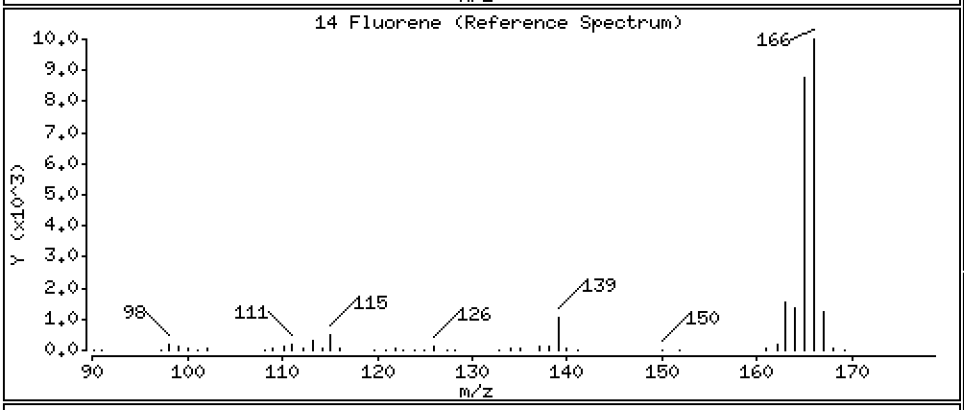
Column diameter: 0.25

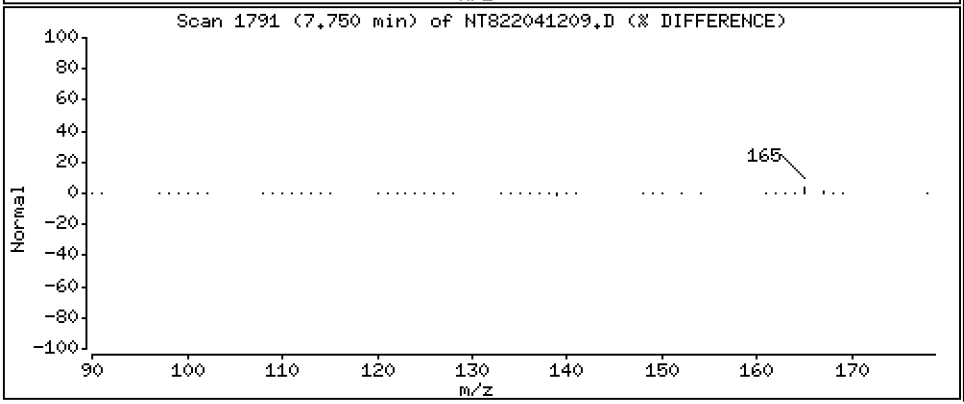
14 Fluorene

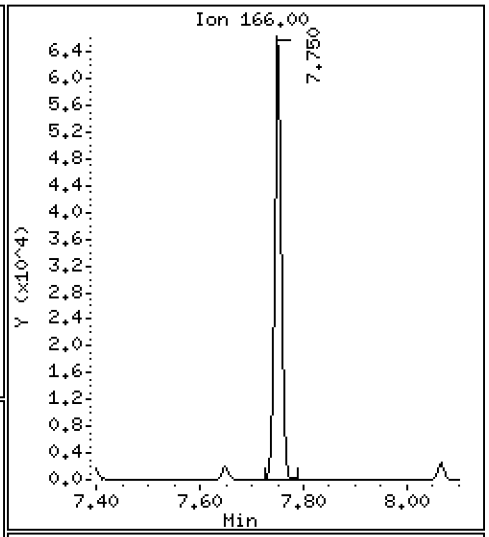
Concentration: 2.824 ug/L

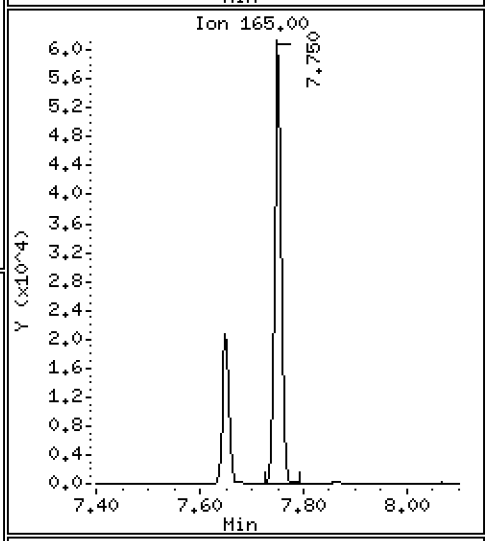


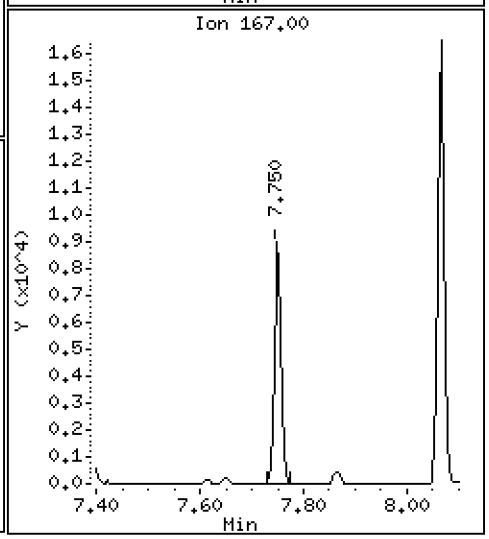












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Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

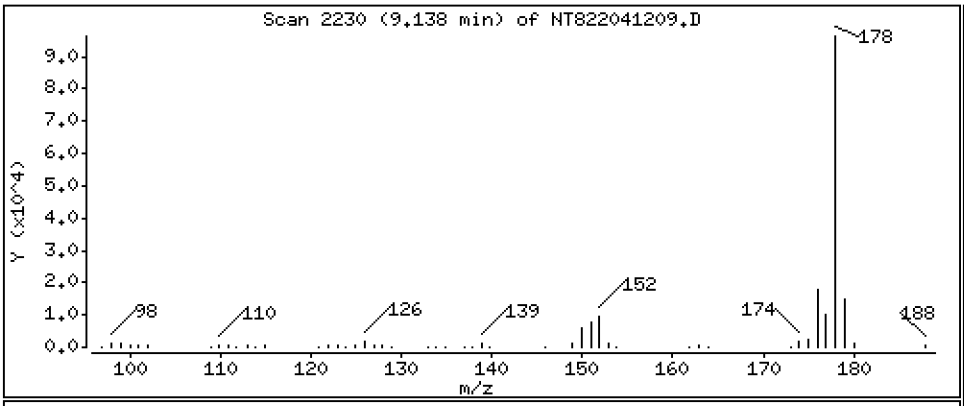
Operator: JZ

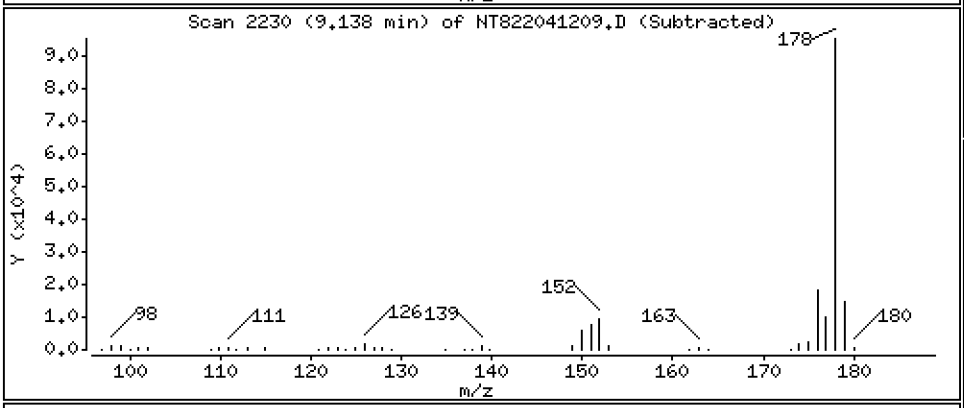
Column phase: Rxi-17sil

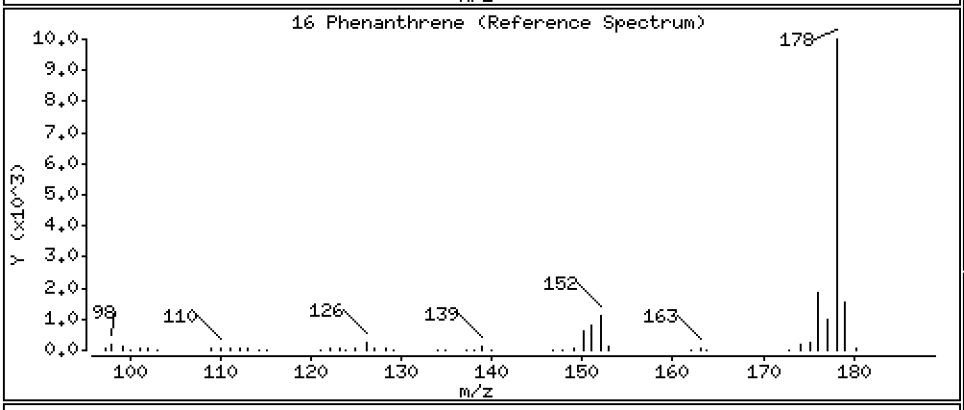
Column diameter: 0.25

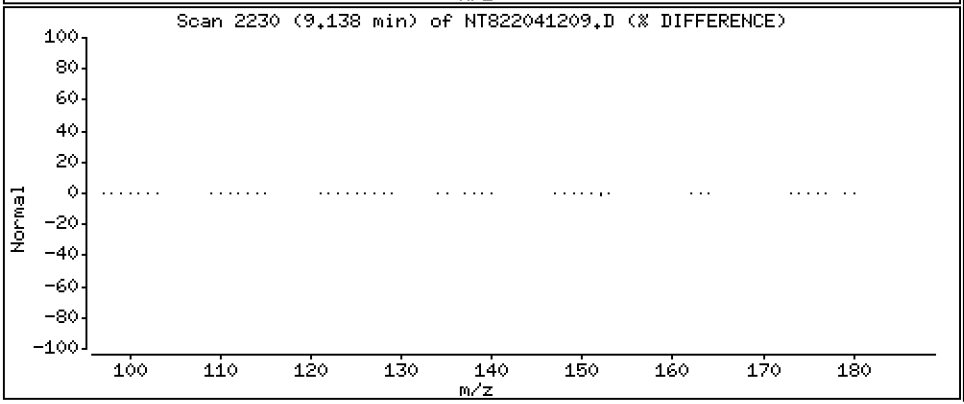
16 Phenanthrene

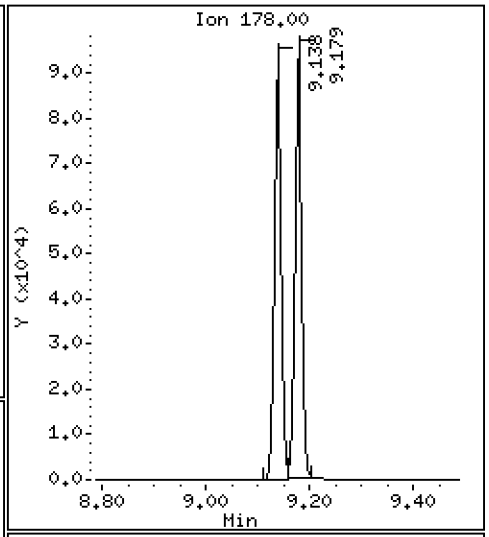
Concentration: 2.901 ug/L

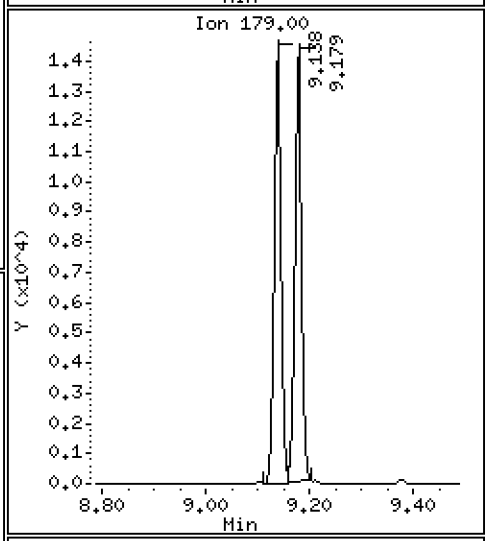


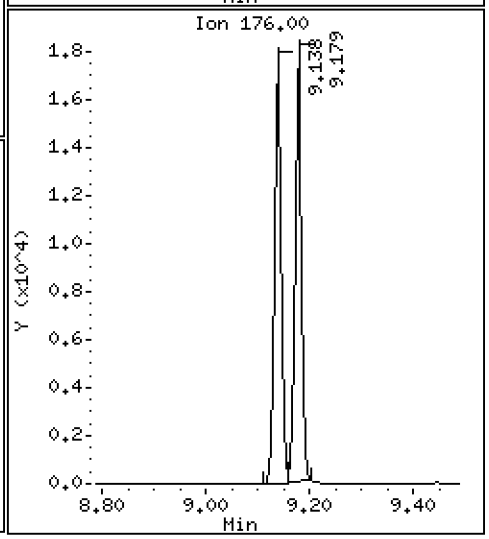












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Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

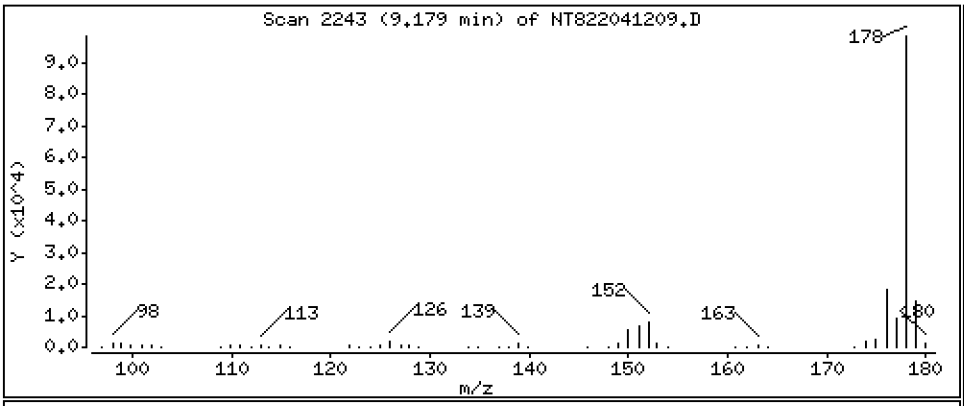
Operator: JZ

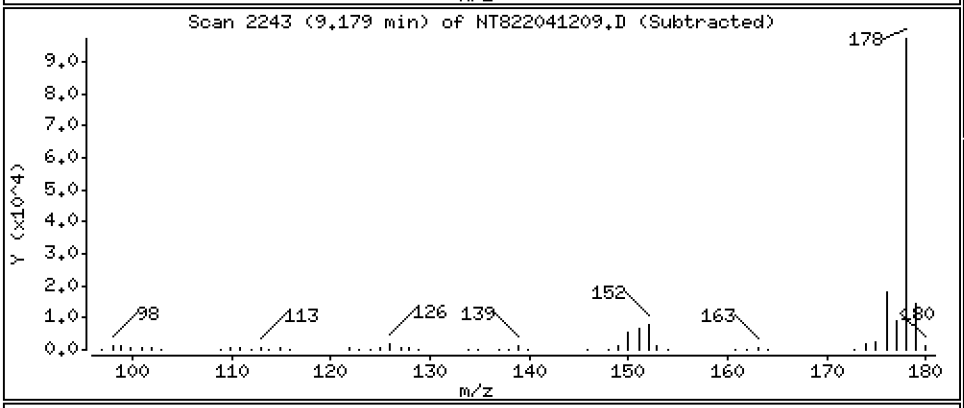
Column phase: Rxi-17sil

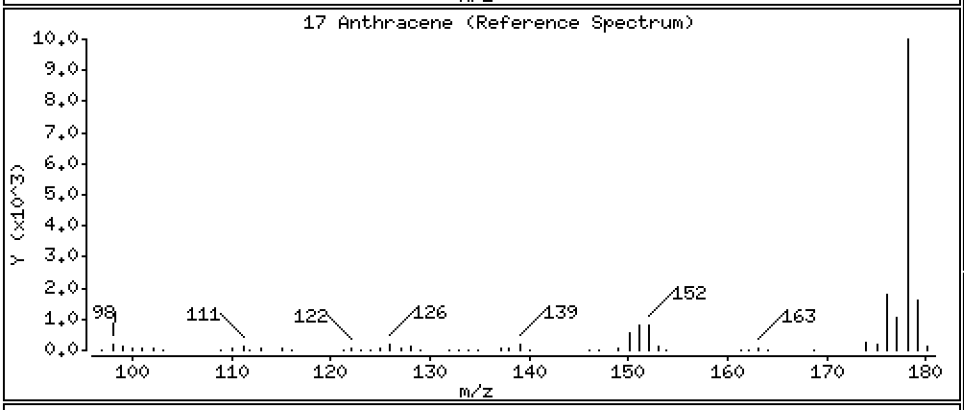
Column diameter: 0.25

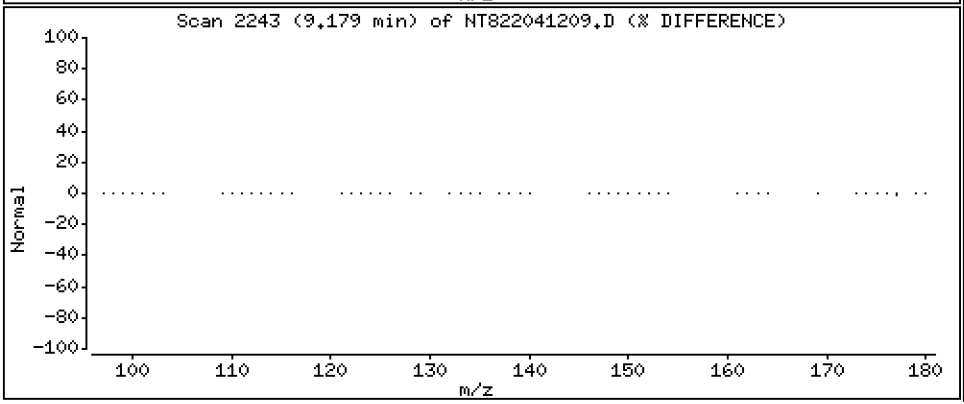
17 Anthracene

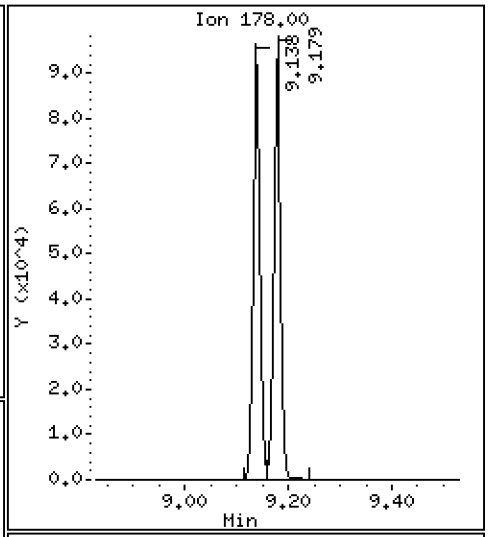
Concentration: 2.989 ug/L

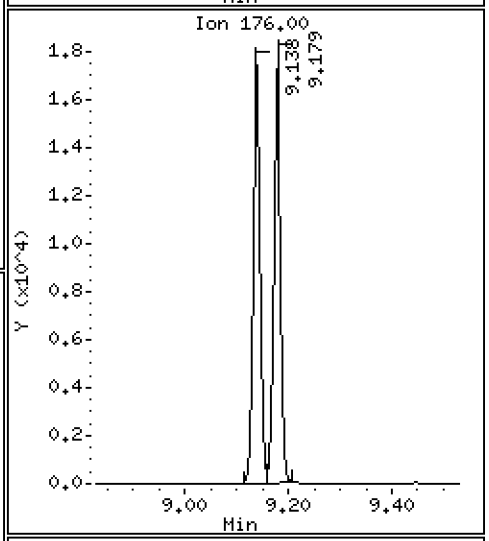


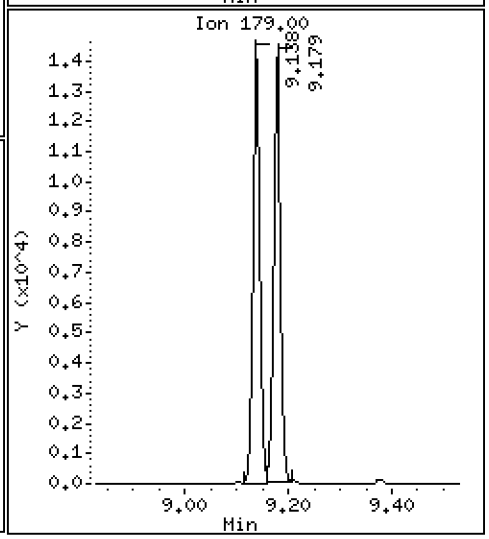












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Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

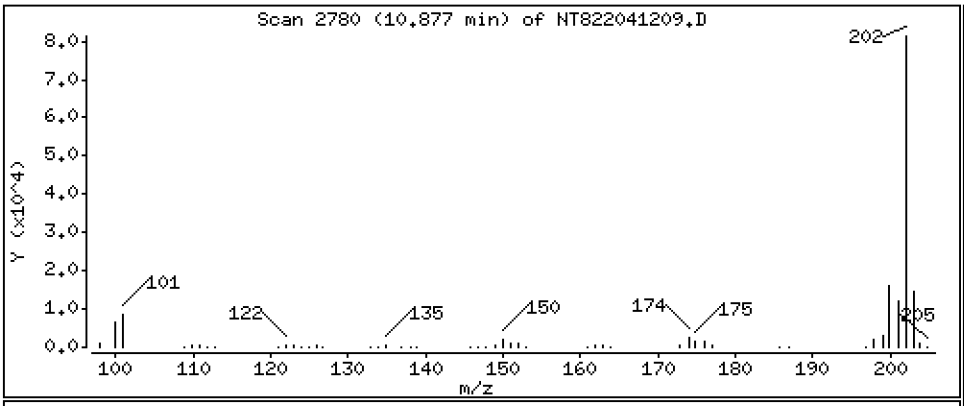
Operator: JZ

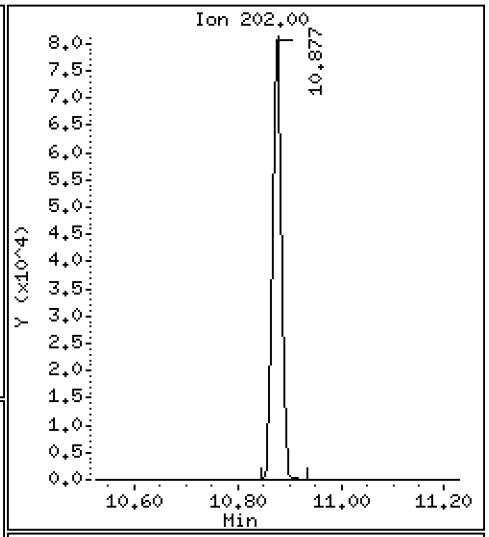
Column phase: Rxi-17sil

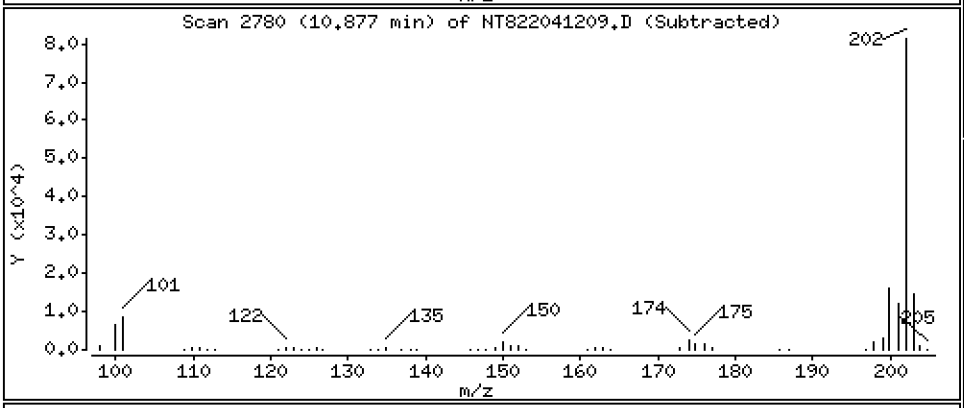
Column diameter: 0.25

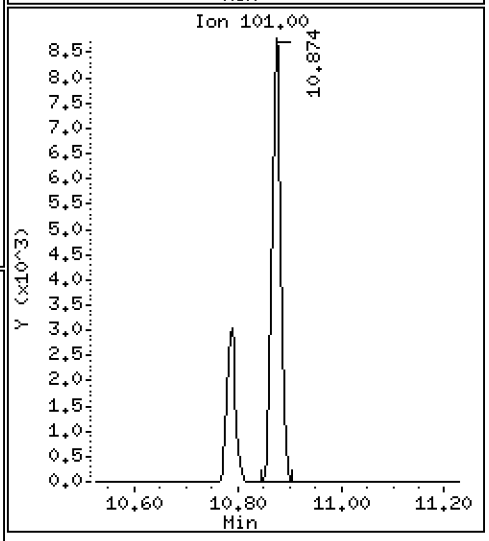
22 Fluoranthene

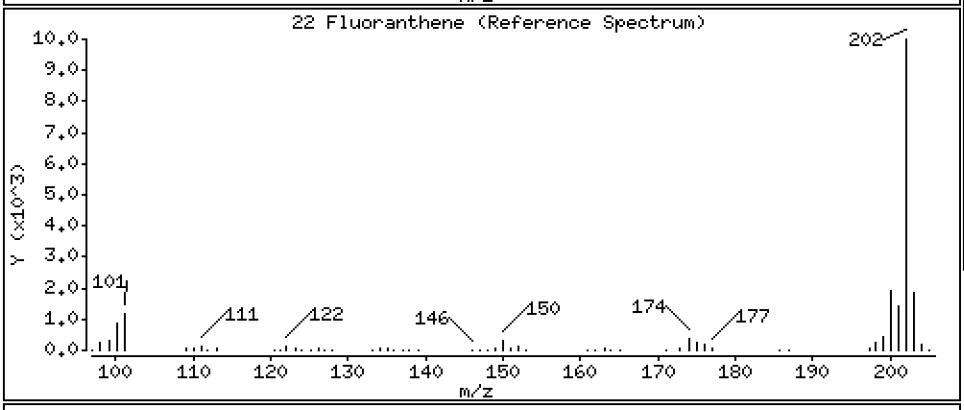
Concentration: 2.981 ug/L

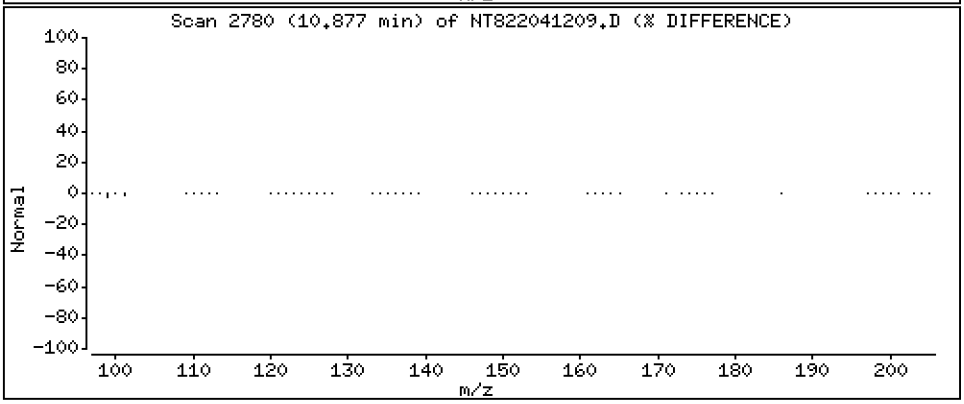












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Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

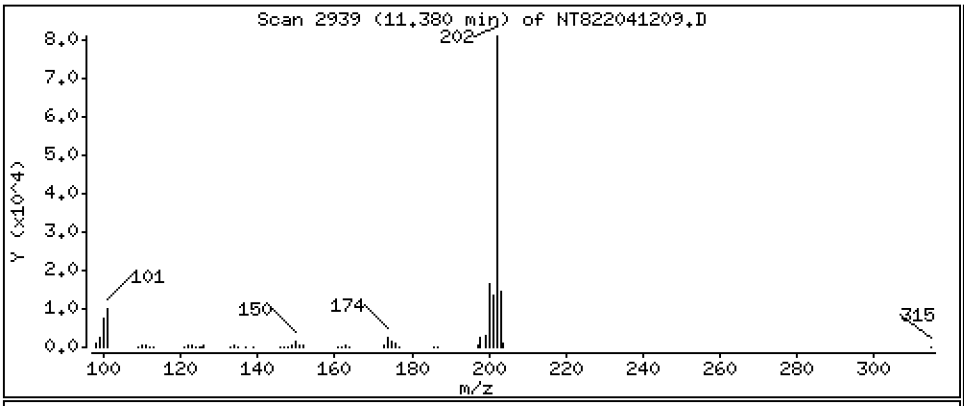
Operator: JZ

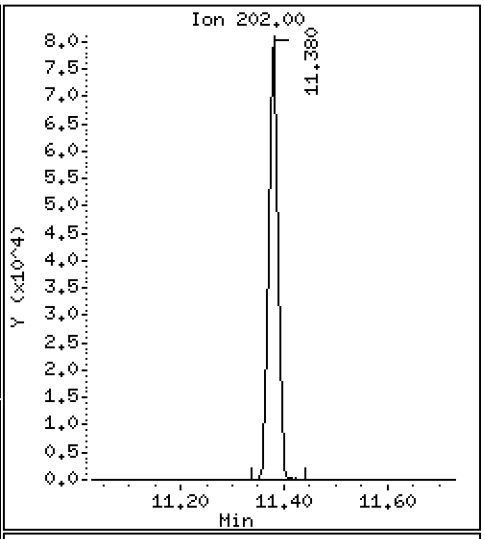
Column phase: Rxi-17sil

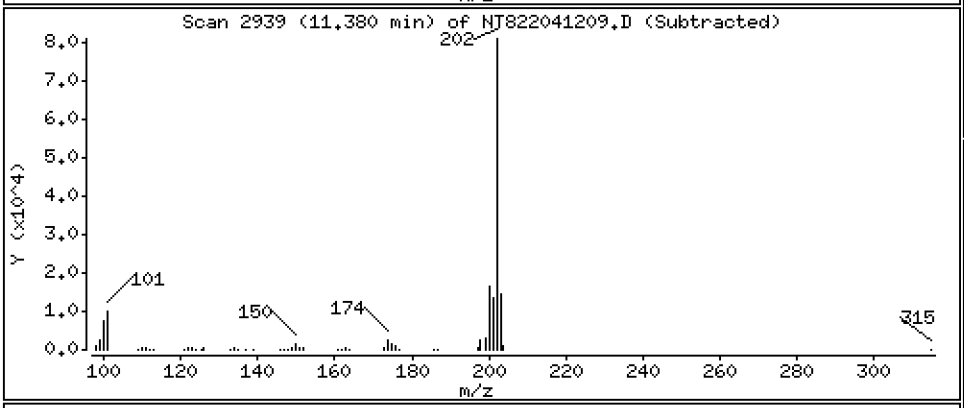
Column diameter: 0.25

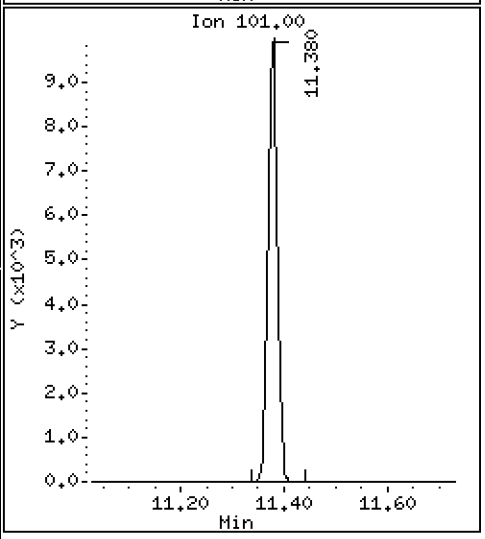
23 Pyrene

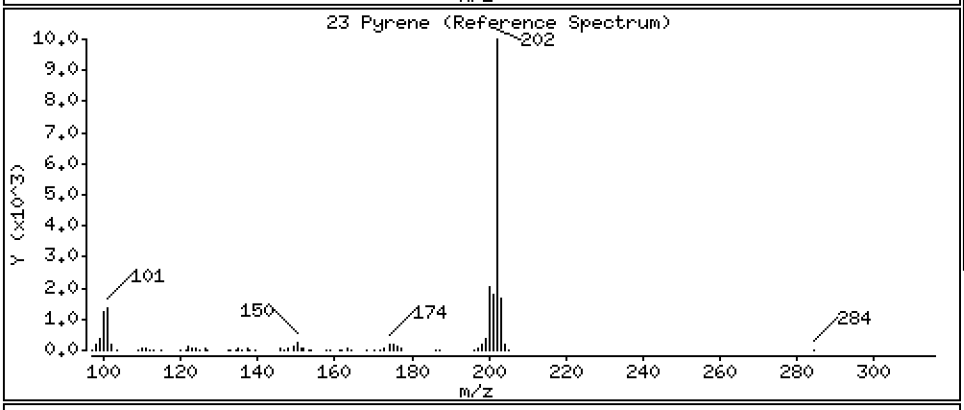
Concentration: 3.034 ug/L

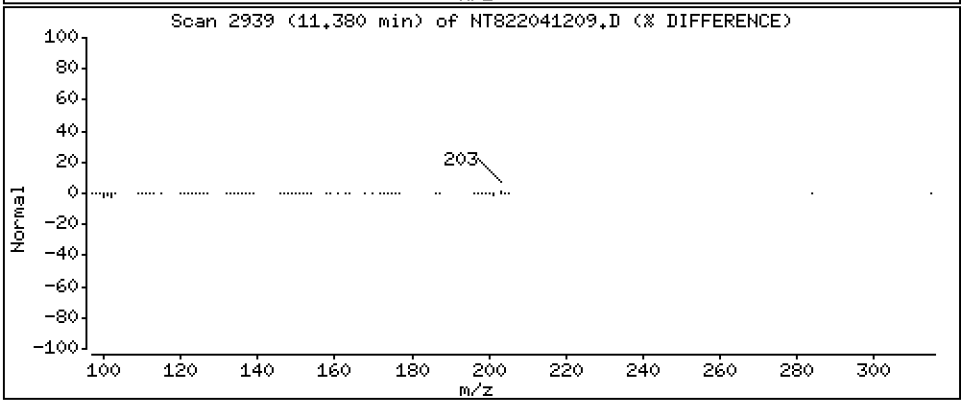












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Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

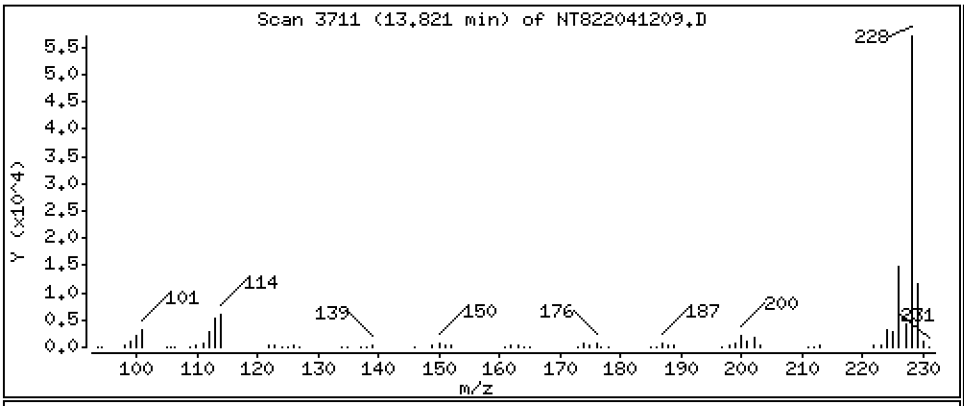
Operator: JZ

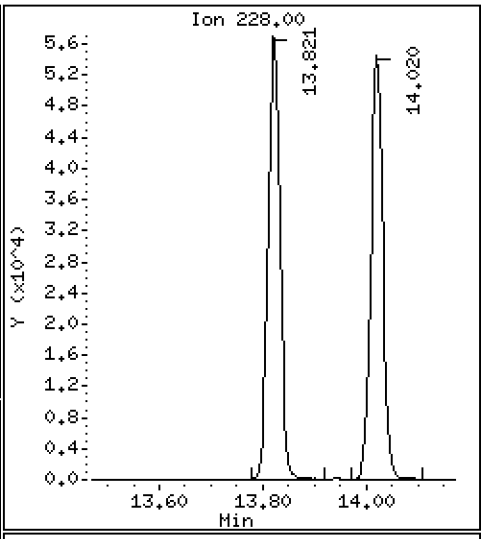
Column phase: Rxi-17sil

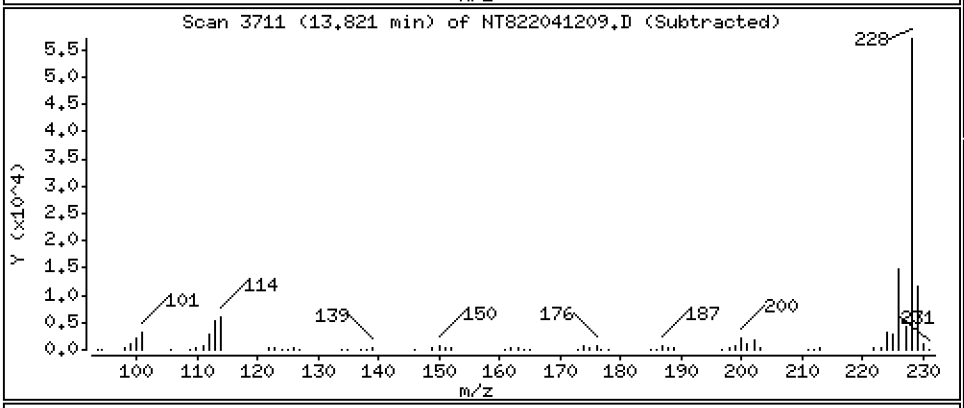
Column diameter: 0.25

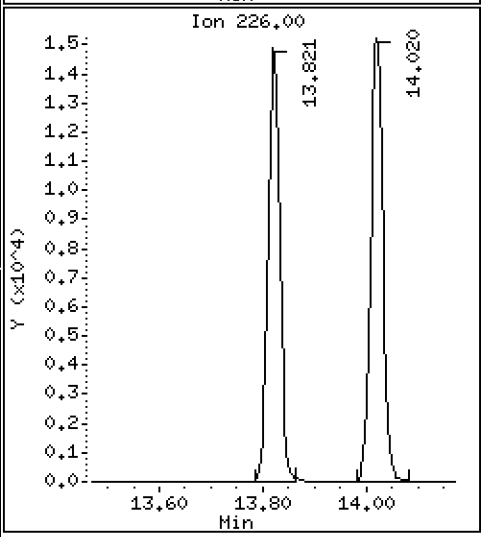
24 Benzo(a)anthracene

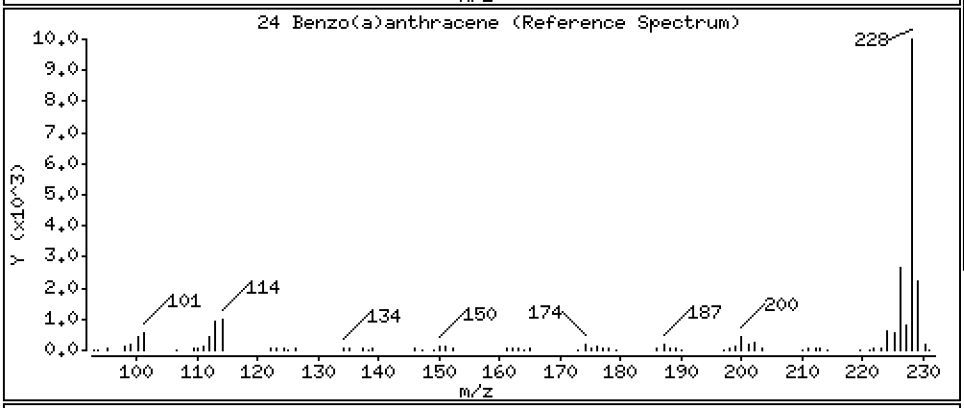
Concentration: 2.982 ug/L

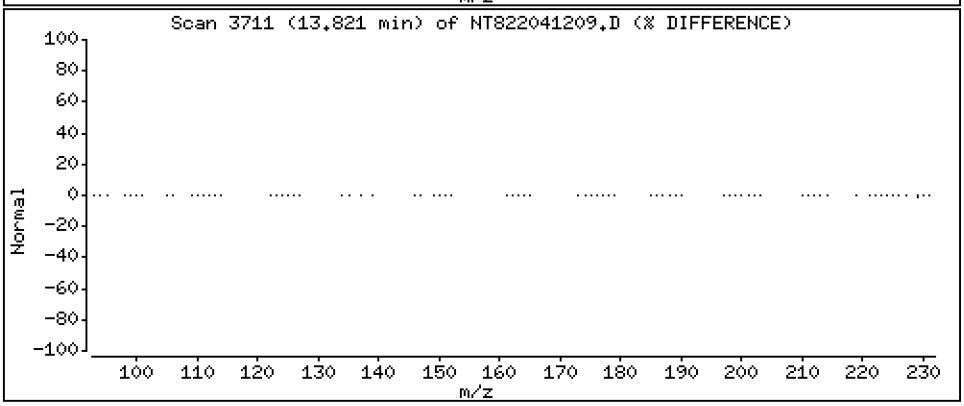












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Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

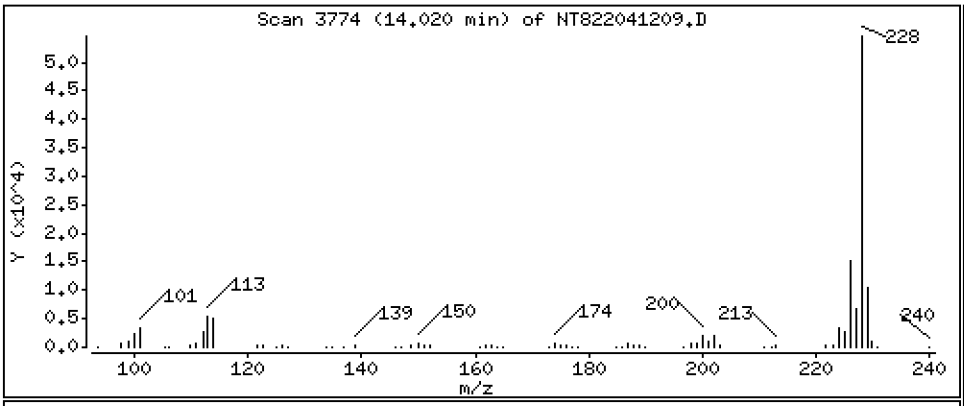
Operator: JZ

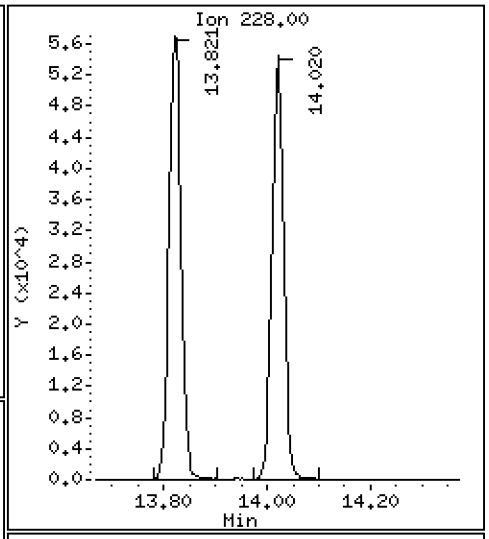
Column phase: Rxi-17sil

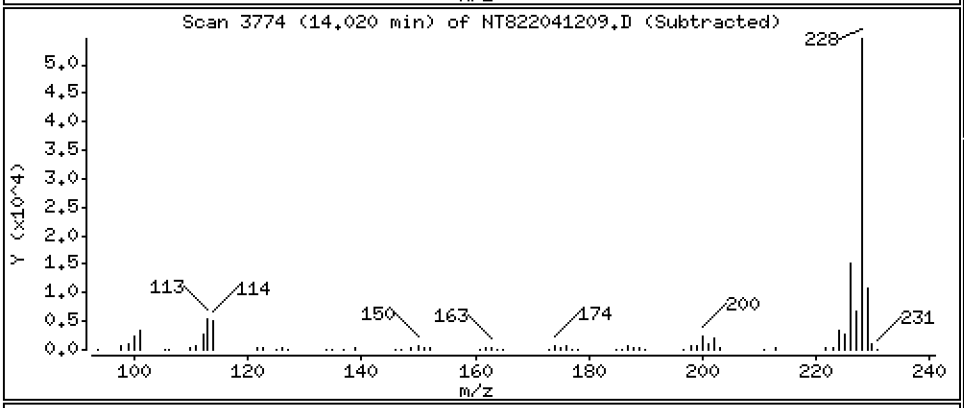
Column diameter: 0.25

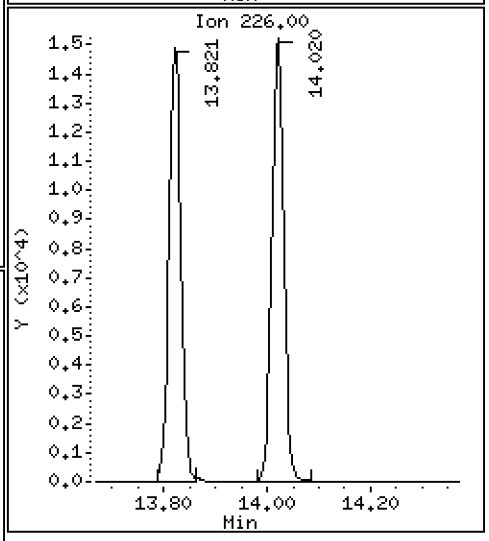
27 Chrysene

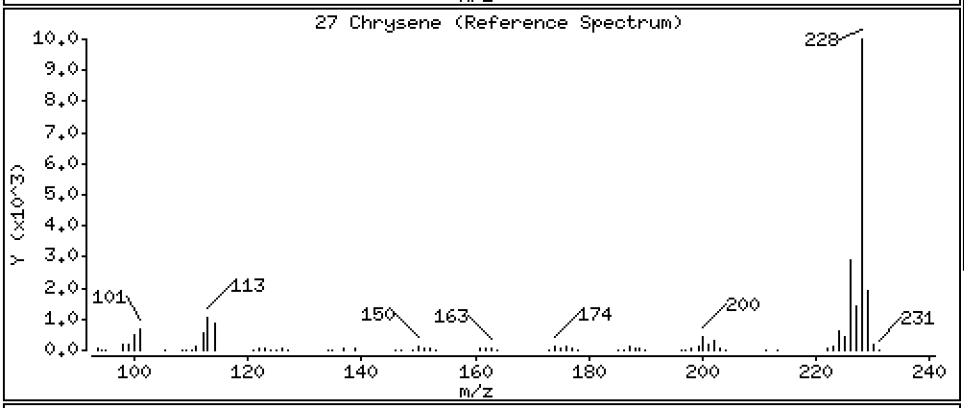
Concentration: 2.917 ug/L

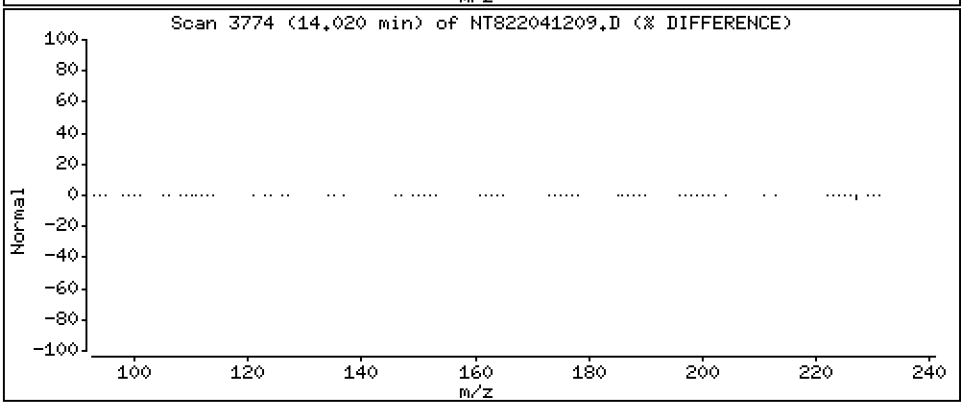












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

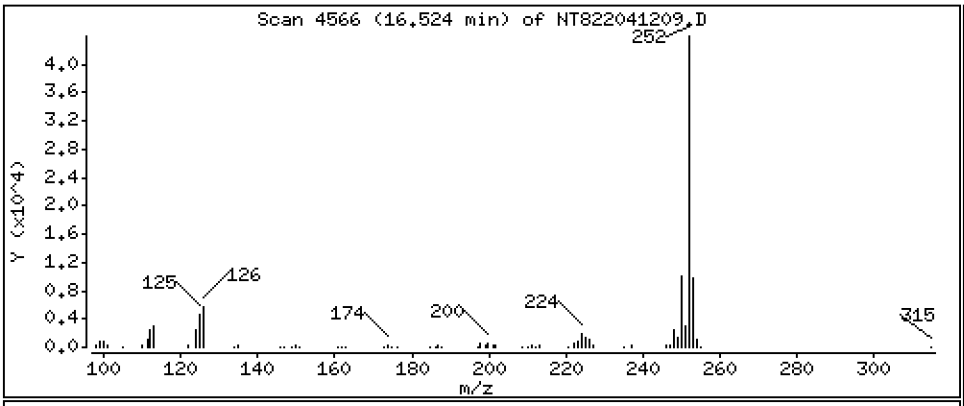
Operator: JZ

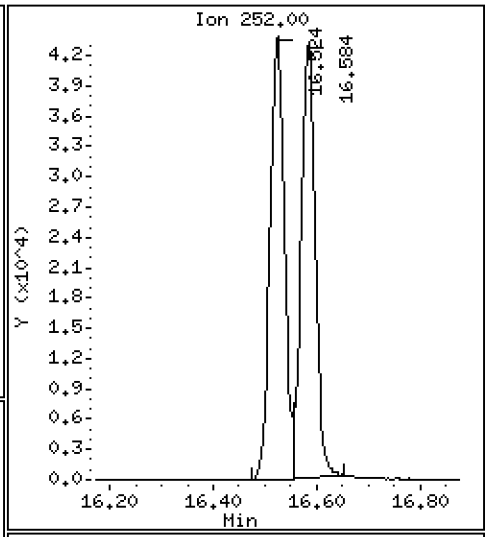
Column phase: Rxi-17sil

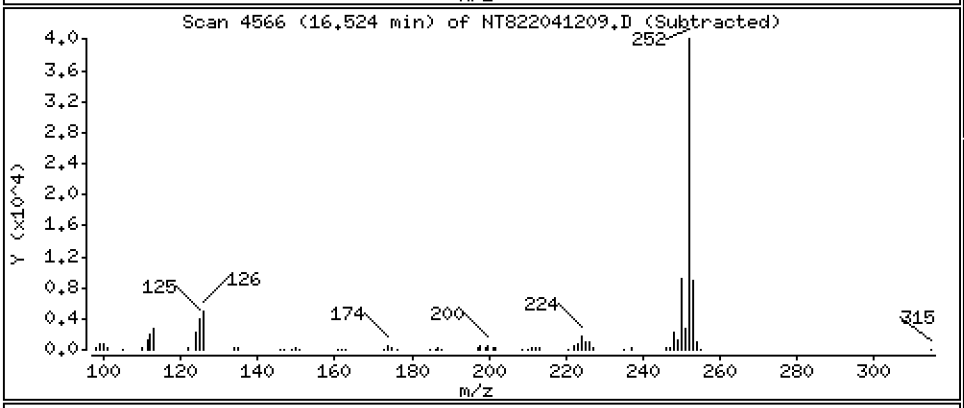
Column diameter: 0.25

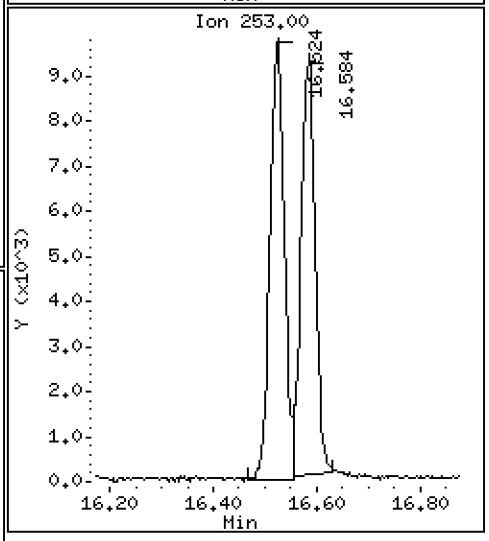
28 Benzo(b)fluoranthene

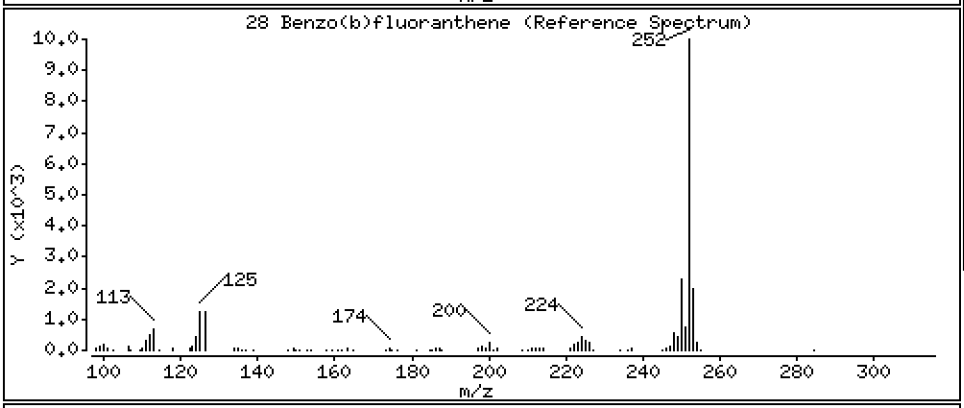
Concentration: 2.888 ug/L

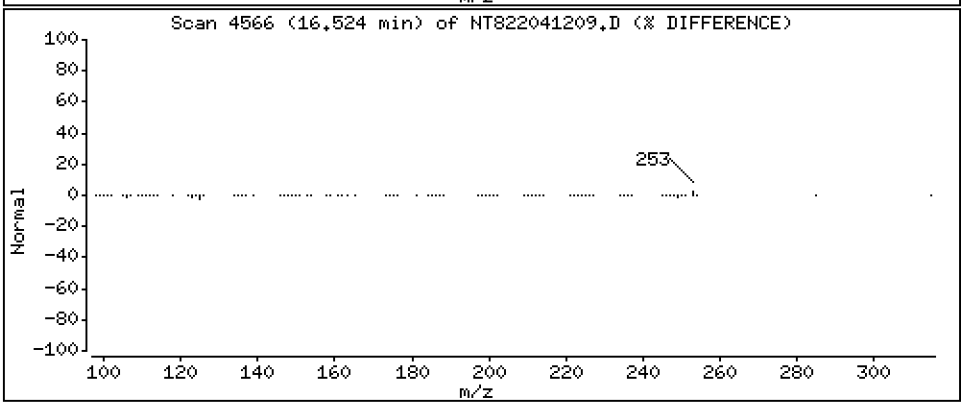












Date : 12-APR-2022 16:16

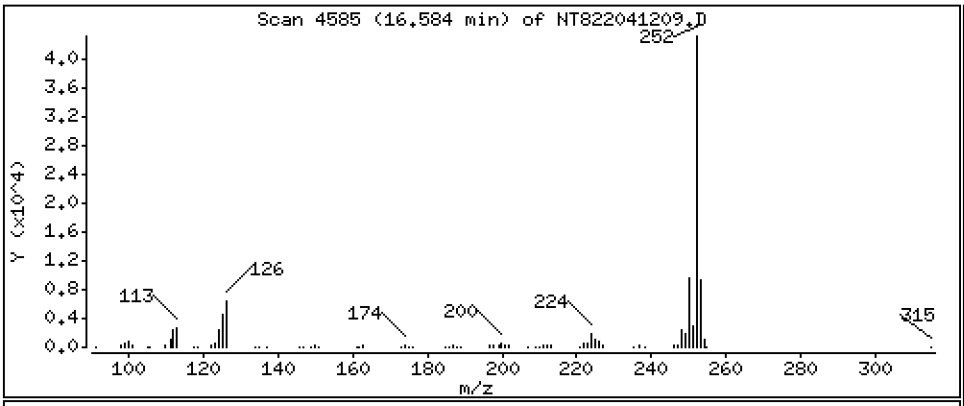
Client ID: Instrument: nt8.i

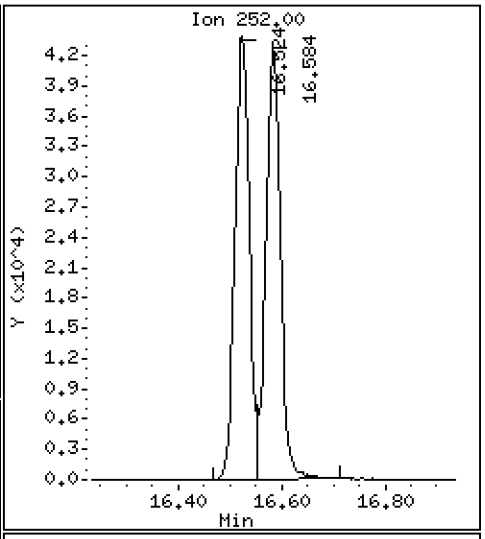
Sample Info: SCV220411,

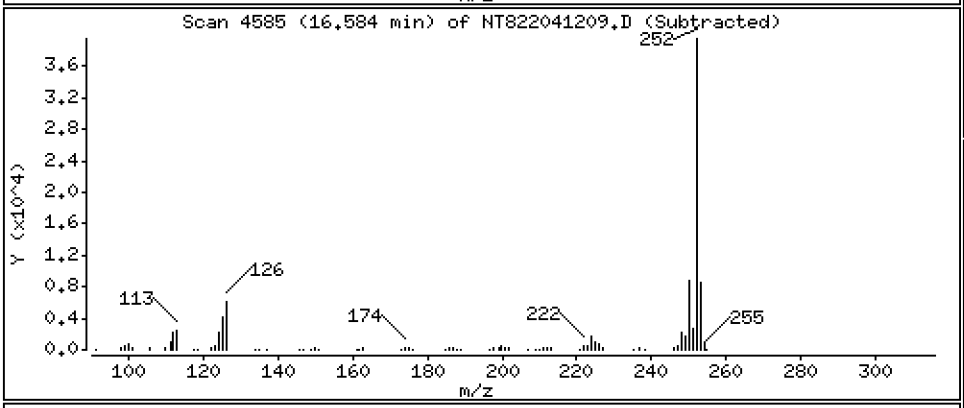
Volume Injected (uL): 1.0 Operator: JZ

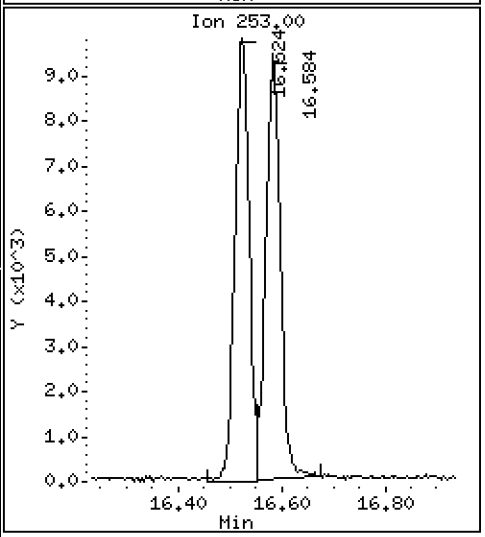
Column phase: Rxi-17sil Column diameter: 0.25

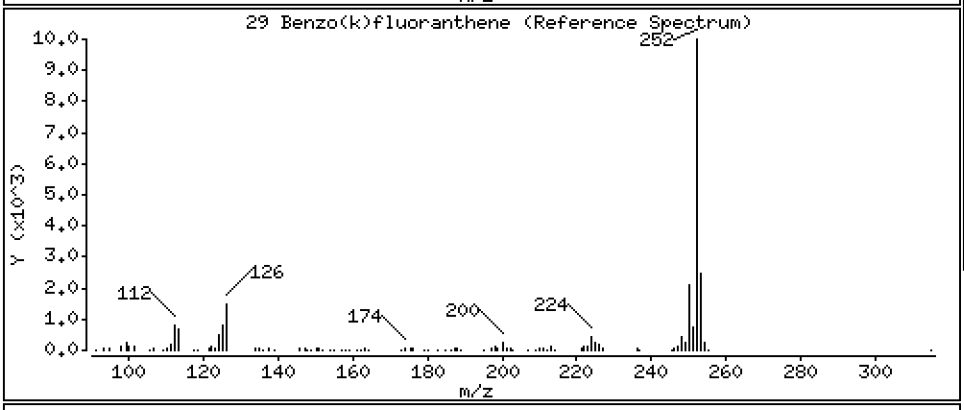
29 Benzo(k)fluoranthene Concentration: 3.083 ug/L

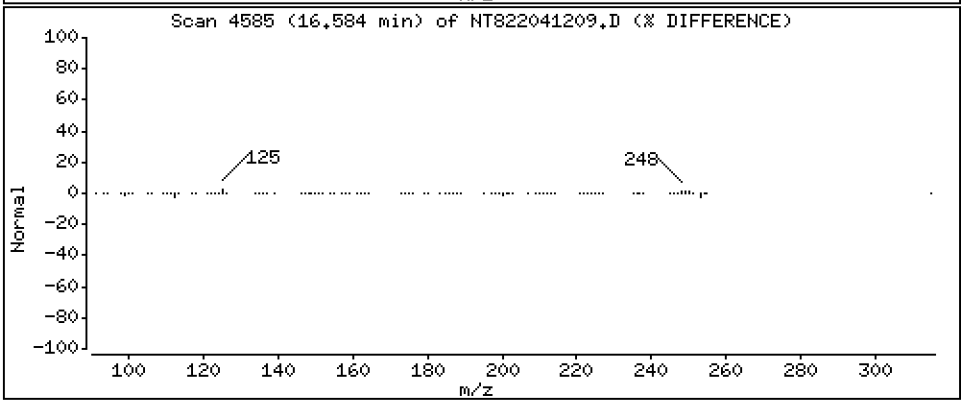












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

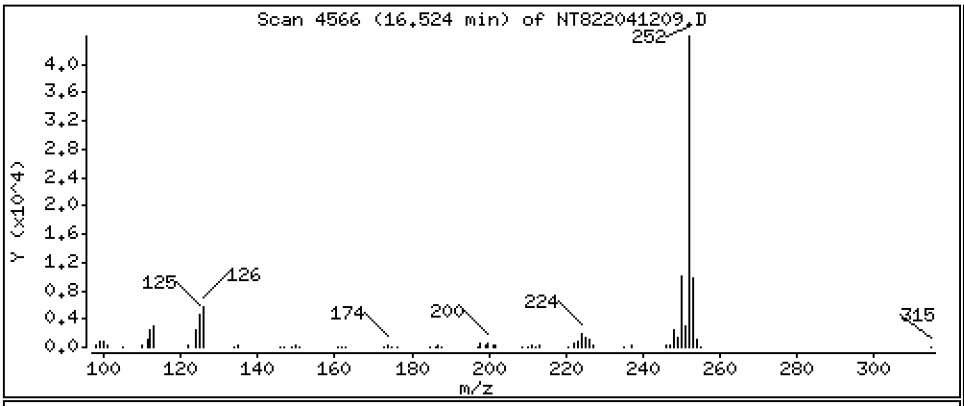
Operator: JZ

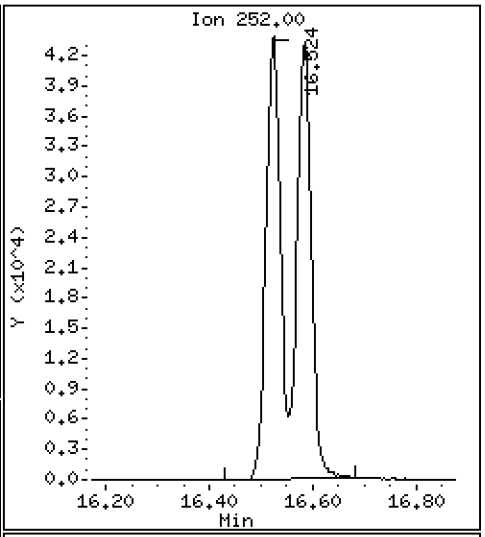
Column phase: Rxi-17sil

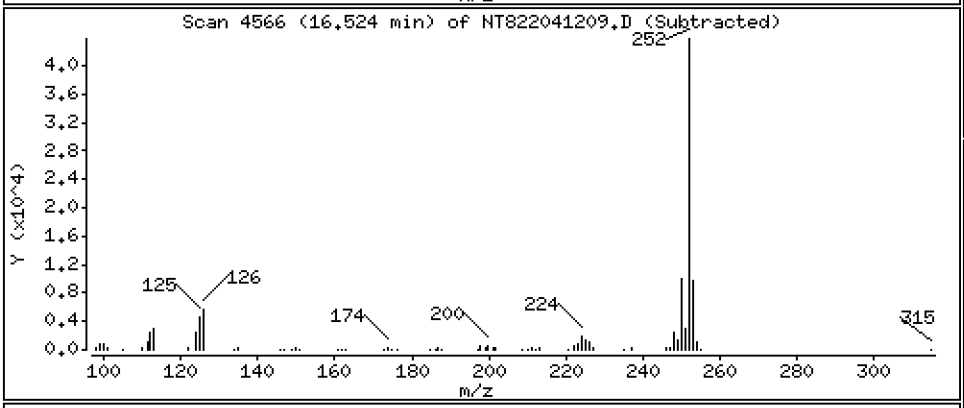
Column diameter: 0.25

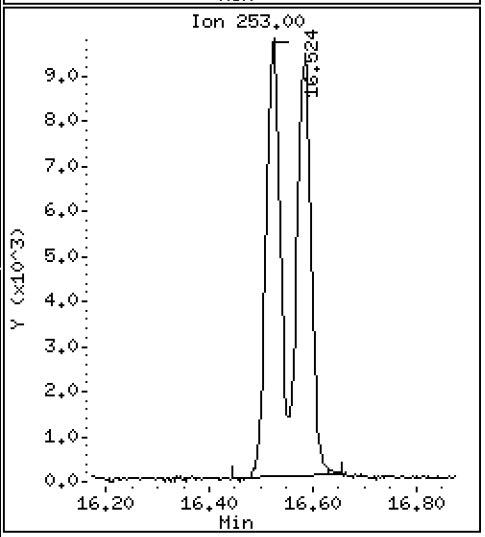
31 Total Benzofluoranthenes

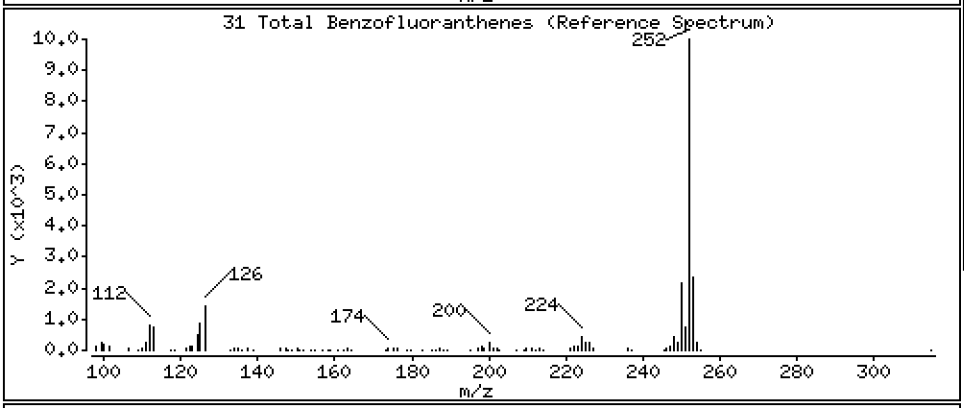
Concentration: 6.100 ug/L

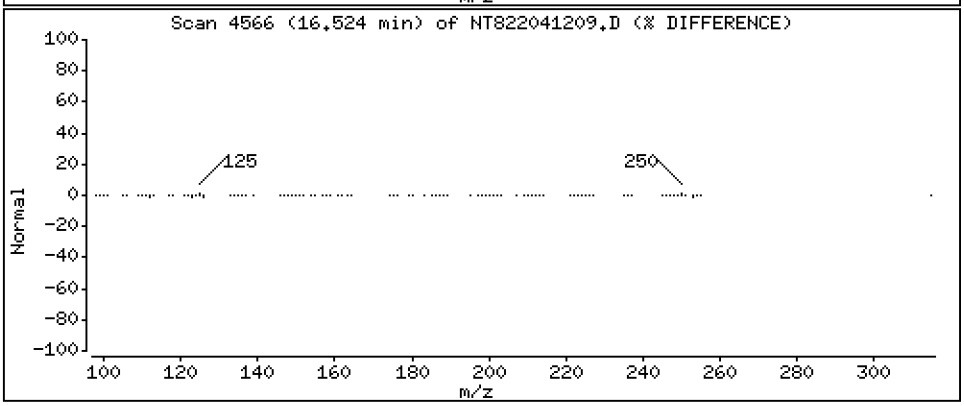












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

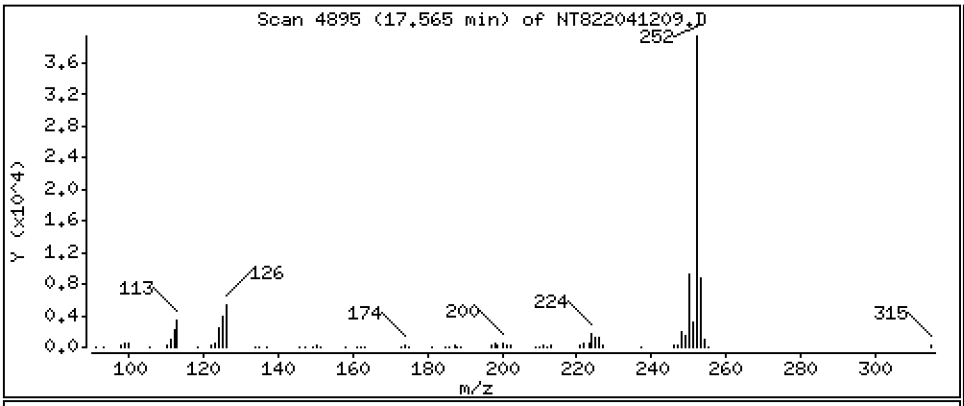
Operator: JZ

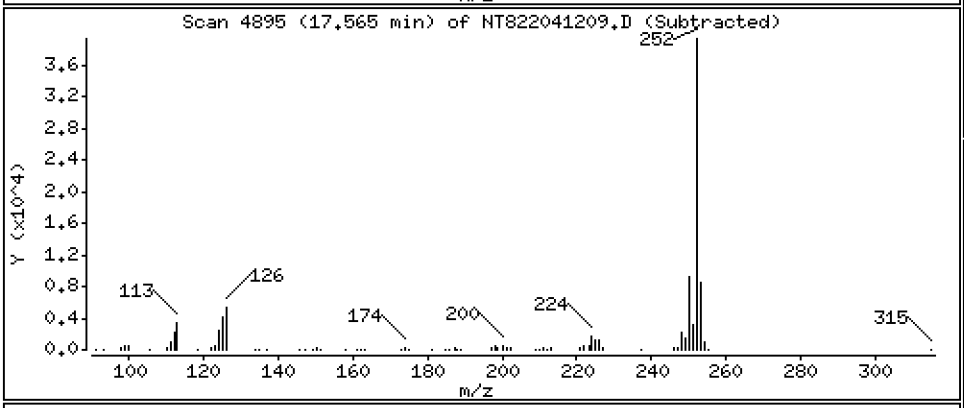
Column phase: Rxi-17sil

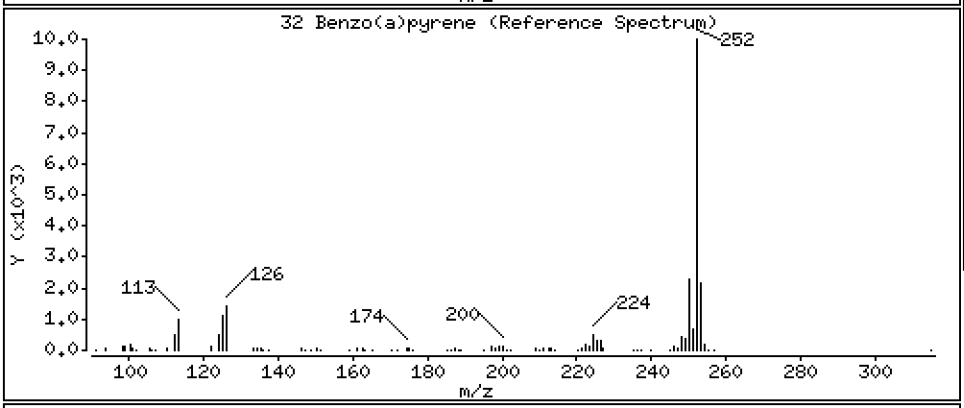
Column diameter: 0.25

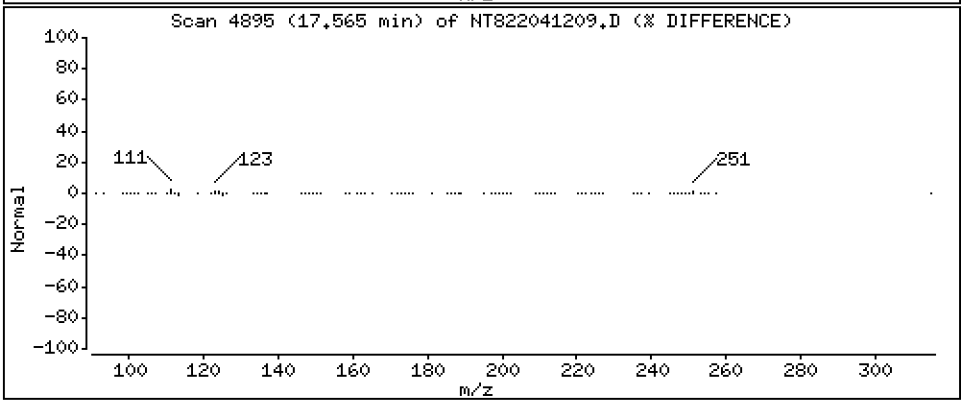
32 Benzo(a)pyrene

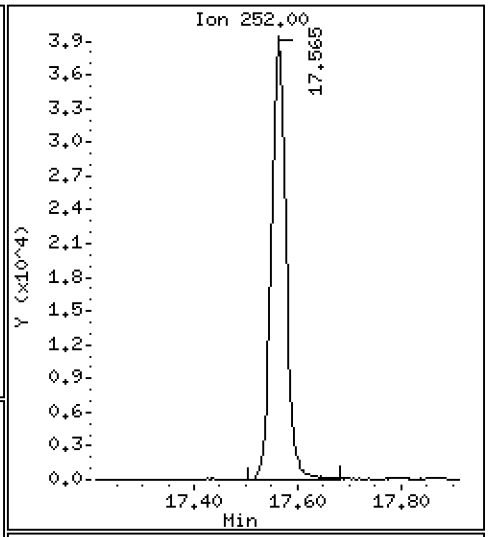
Concentration: 3.163 ug/L

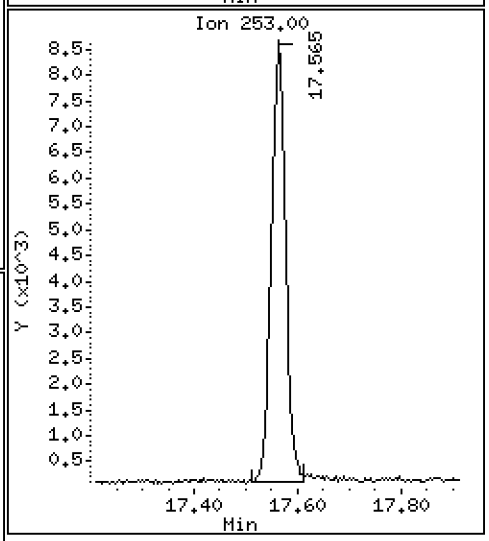












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

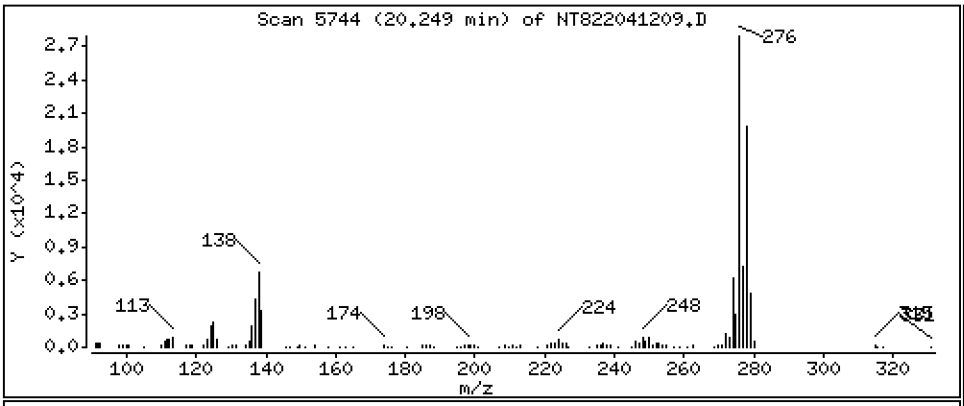
Operator: JZ

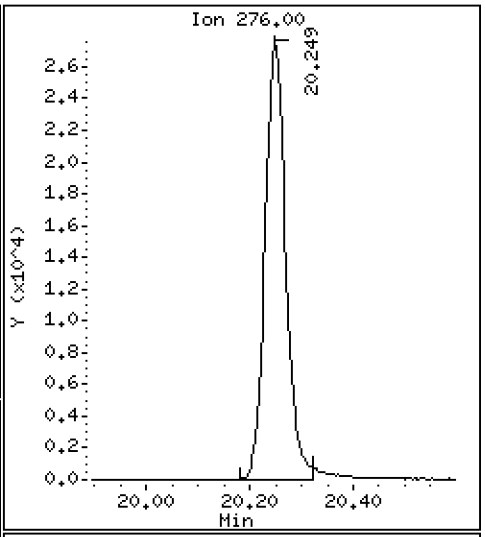
Column phase: Rxi-17sil

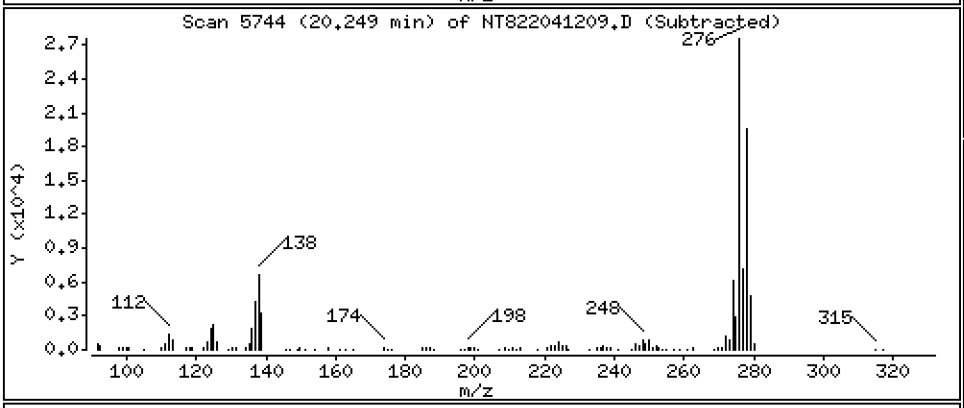
Column diameter: 0.25

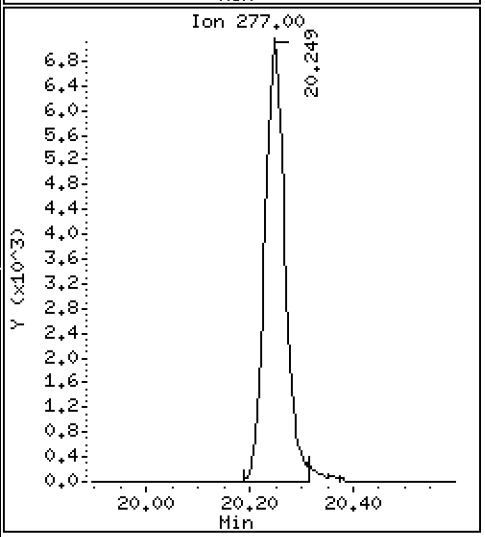
37 Indeno(1,2,3-cd)pyrene

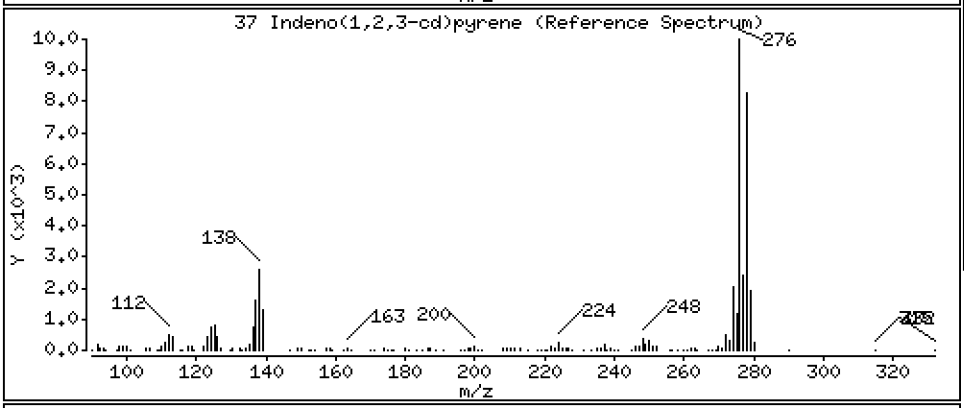
Concentration: 3.174 ug/L

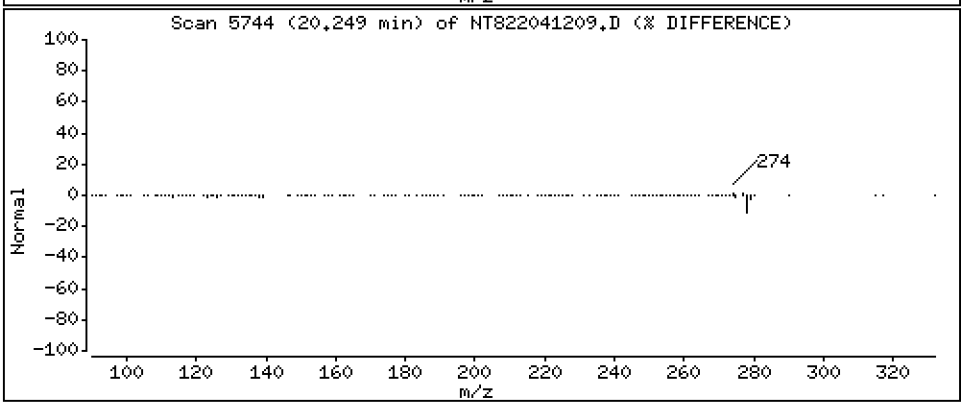












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

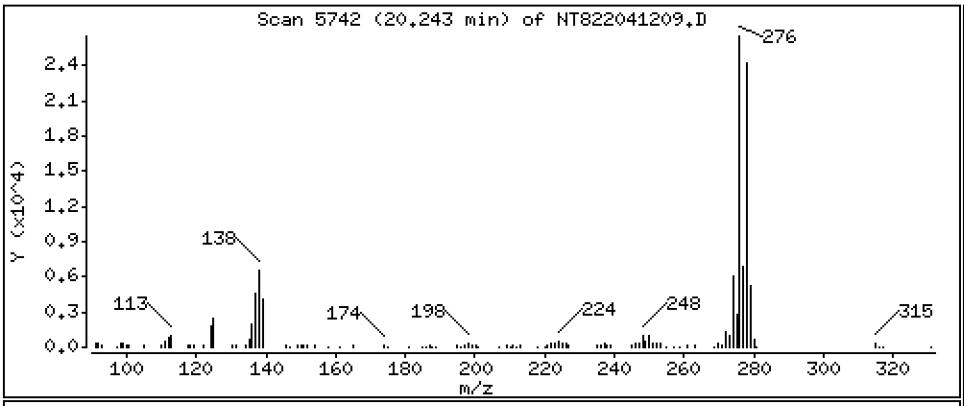
Operator: JZ

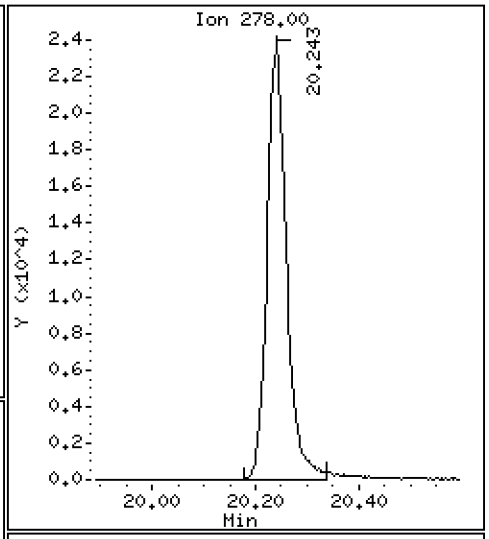
Column phase: Rxi-17sil

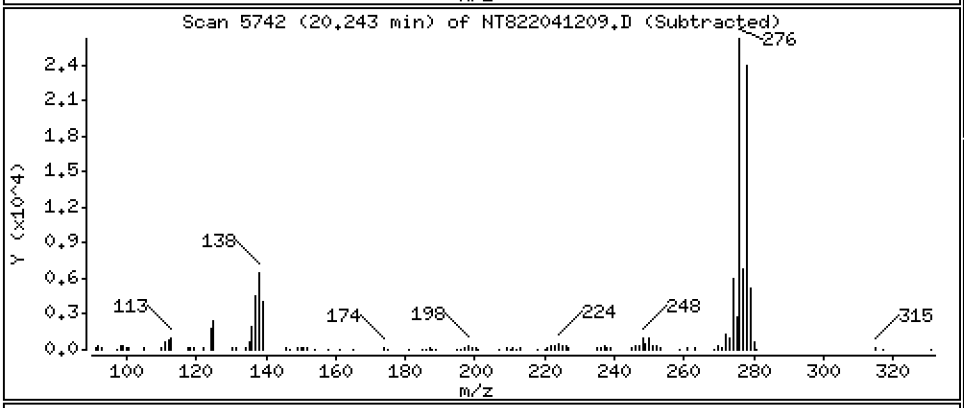
Column diameter: 0.25

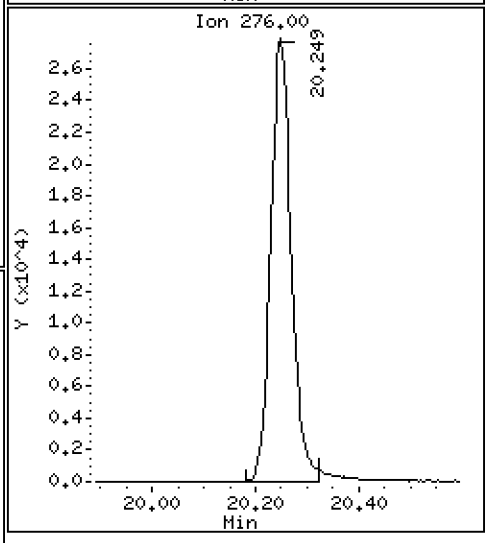
38 Dibenzo(a,h)anthracene

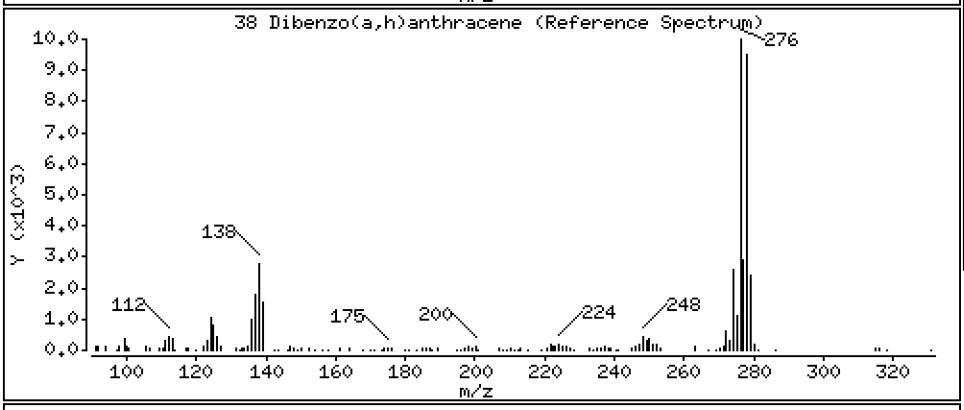
Concentration: 2.986 ug/L

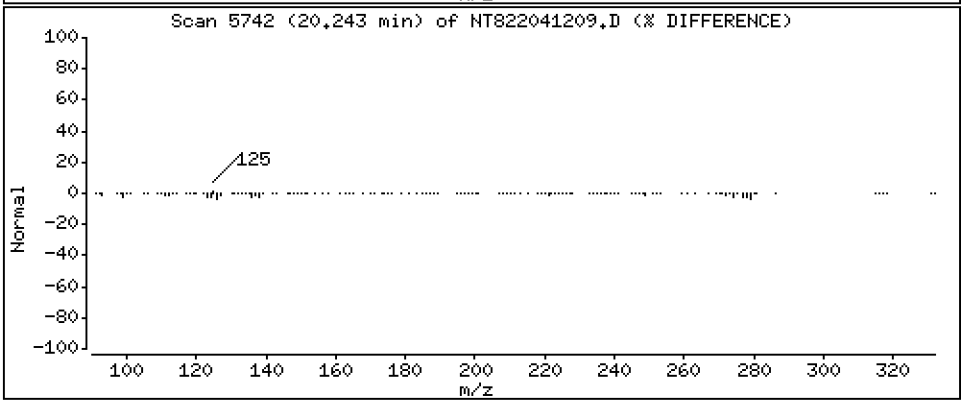












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

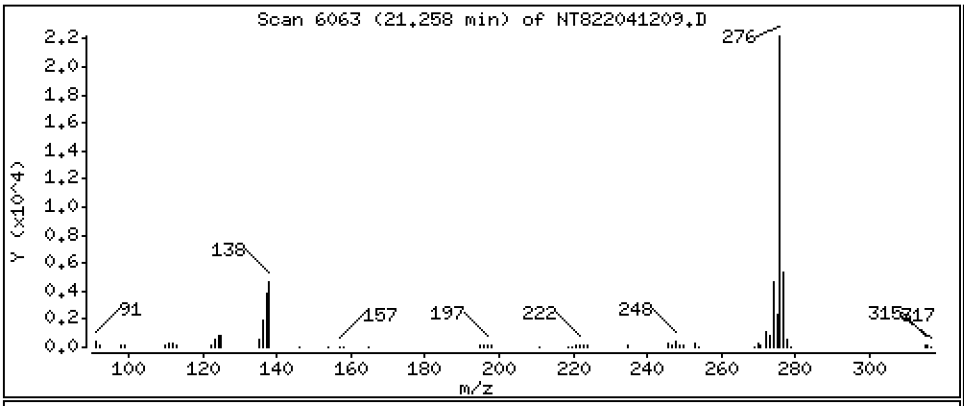
Operator: JZ

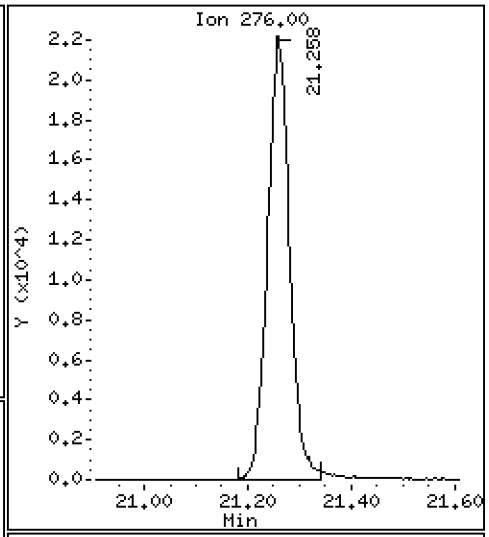
Column phase: Rxi-17sil

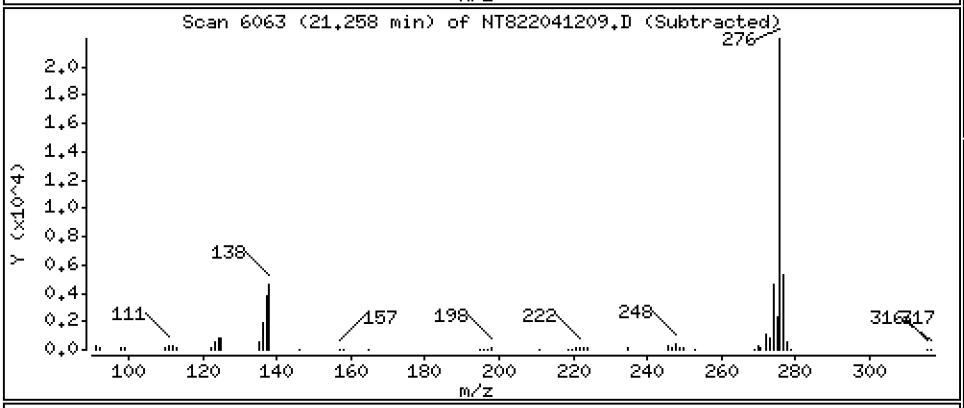
Column diameter: 0.25

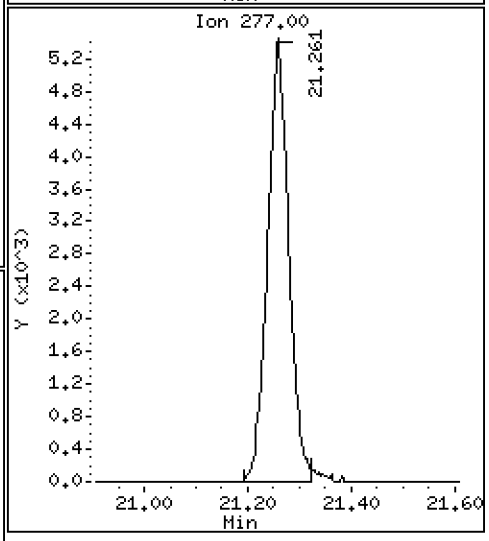
39 Benzo(g,h,i)perylene

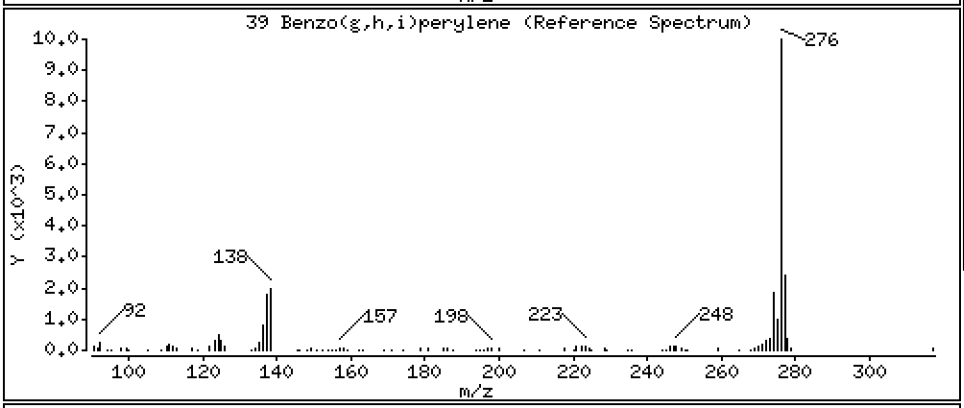
Concentration: 2.921 ug/L

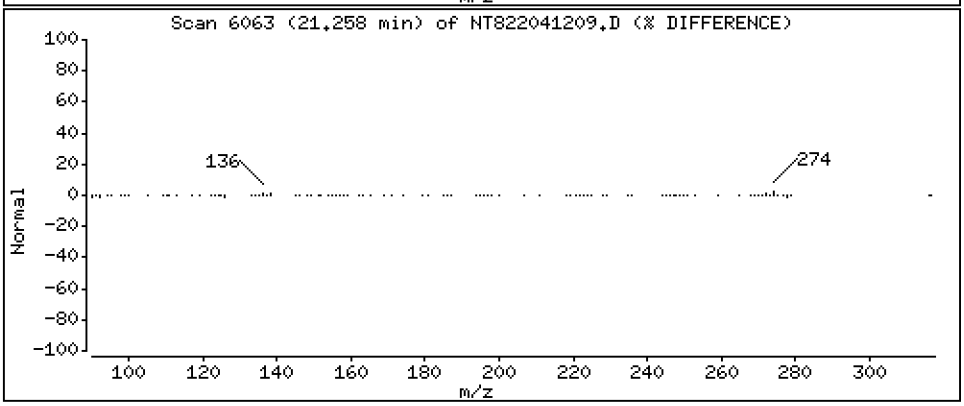












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20220412.b\NT822041209.D
Lab Smp Id: SKD0159-SCV1
Inj Date : 12-APR-2022 16:16
Operator : JZ Inst ID: nt8.i
Smp Info : SCV220411,
Misc Info : 22-
Comment   : 1ul Injection
Method   : \\target\share\chem3\nt8.i\20220412.b\FSIMPNA220411.m
Meth Date : 25-Apr-2022 12:21 jianqing Quant Type: ISTD
Cal Date : 12-APR-2022 15:49 Cal File: NT822041208.D
Als bottle: 9 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnascv.sub
Target Version: 4.14
Processing Host: JIANQING-202105

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	500.000	Volume of final extract (uL)
Vo	500.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
*	1 Naphthalene-d8	136	4.799	4.799	(1.000)	54442	2.00000	
	2 Naphthalene	128	4.828	4.828	(1.006)	77605	2.81321	2.813
$	3 2-Methylnaphthalene-d10	152	Compound Not Detected.					
	4 2-Methylnaphthalene	141	5.574	5.574	(1.161)	45640	2.90766	2.908
	5 1-methylnaphthalene	141	5.770	5.770	(1.202)	46068	3.00121	3.001
	9 Acenaphthylene	152	6.965	6.965	(0.984)	84792	2.96909	2.969
*	10 Acenaphthene-d10	164	7.076	7.076	(1.000)	33053	2.00000	
	11 Acenaphthene	153	7.126	7.126	(1.007)	50658	2.67341	2.673
	12 Dibenzofuran	168	7.275	7.275	(1.028)	84865	3.19228	3.192
	14 Fluorene	166	7.749	7.749	(1.095)	60386	2.82353	2.824
*	15 Phenanthrene-d10	188	9.103	9.103	(1.000)	57165	2.00000	
	16 Phenanthrene	178	9.138	9.137	(1.004)	87974	2.90100	2.901
	17 Anthracene	178	9.179	9.179	(1.008)	86805	2.98854	2.989
	22 Fluoranthene	202	10.877	10.877	(1.195)	98897	2.98056	2.981
$	21 Fluoranthene-d10	212	Compound Not Detected.					
	23 Pyrene	202	11.379	11.379	(0.816)	101285	3.03352	3.034(M)
	24 Benzo(a)anthracene	228	13.820	13.820	(0.991)	93097	2.98161	2.982
*	25 Chrysene-d12	240	13.947	13.947	(1.000)	49400	2.00000	
	27 Chrysene	228	14.020	14.020	(1.005)	87014	2.91655	2.917
	28 Benzo(b)fluoranthene	252	16.524	16.524	(0.929)	86821	2.88824	2.888
	29 Benzo(k)fluoranthene	252	16.584	16.584	(0.932)	85979	3.08332	3.083
	31 Total Benzofluoranthenes	252	16.524	16.524	(0.929)	169131	6.10024	6.100(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	32 Benzo(a)pyrene	252	17.564	17.561	(0.987)	78493	3.16331	3.163
*	33 Perylene-d12	264	17.792	17.795	(1.000)	42338	2.00000	
	37 Indeno(1,2,3-cd)pyrene	276	20.249	20.245	(1.138)	77240	3.17379	3.174
$	36 Dibenzo(a,h)anthracene-d14	292	Compound Not Detected.					
	38 Dibenzo(a,h)anthracene	278	20.242	20.242	(1.138)	62700	2.98649	2.986
	39 Benzo(g,h,i)perylene	276	21.257	21.257	(1.195)	66126	2.92092	2.921
	35 Perylene	252	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt8.i
Lab File ID: NT822041209.D
Lab Smp Id: SKD0159-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: \\target\share\chem3\nt8.i\20220412.b\FSIMPNA220411.m
Misc Info: 22-

Calibration Date: 12-APR-2022
Calibration Time: 14:55
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	56136	28068	112272	54442	-3.02
10 Acenaphthene-d10	32604	16302	65208	33053	1.38
15 Phenanthrene-d10	58288	29144	116576	57165	-1.93
25 Chrysene-d12	52801	26401	105602	49400	-6.44
33 Perylene-d12	42745	21373	85490	42338	-0.95

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	4.80	4.30	5.30	4.80	0.00
10 Acenaphthene-d10	7.08	6.58	7.58	7.08	0.00
15 Phenanthrene-d10	9.10	8.60	9.60	9.10	0.00
25 Chrysene-d12	13.95	13.45	14.45	13.95	0.00
33 Perylene-d12	17.80	17.30	18.30	17.79	-0.02

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

REVIEW SUMMARY FOR FILE - NT822041209.D

Lab ID: SKD0159-SCV1
nt8.i, 20220412.b\FSIMPNA220411.m,   12-APR-2022 16:16

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

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

No RRT check performed

On Column LOD for nt8.i, 20220412.b\FSIMPNA220411.m, pnascv.sub = 0.0500

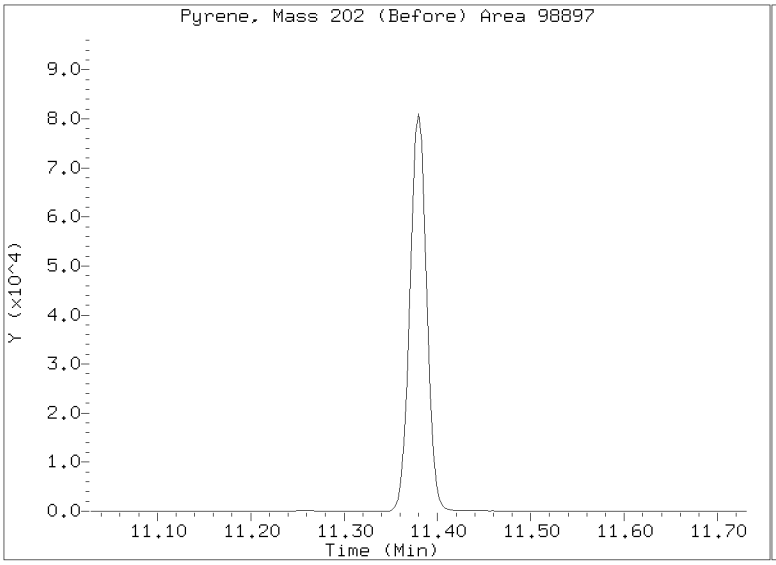
Exception: Benzo(b)fluoranthene 0.0300
Exception: Benzo(k)fluoranthene 0.0300
Exception: Total Benzofluoranthenes 0.0300
Exception: Fluoranthene-d10 (Surr) 0.0000

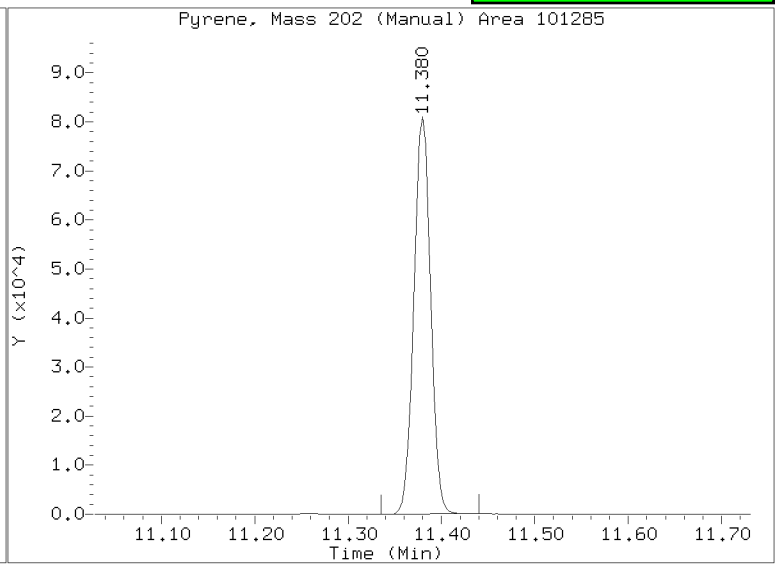
* Only compounds listed in the work order have been verified by the analyst *

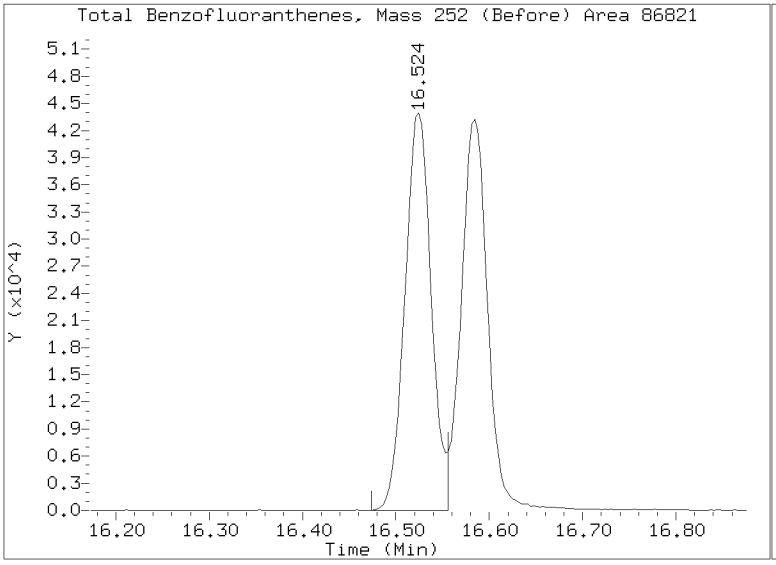
Quant Ion Manual Peak Adjustment Report

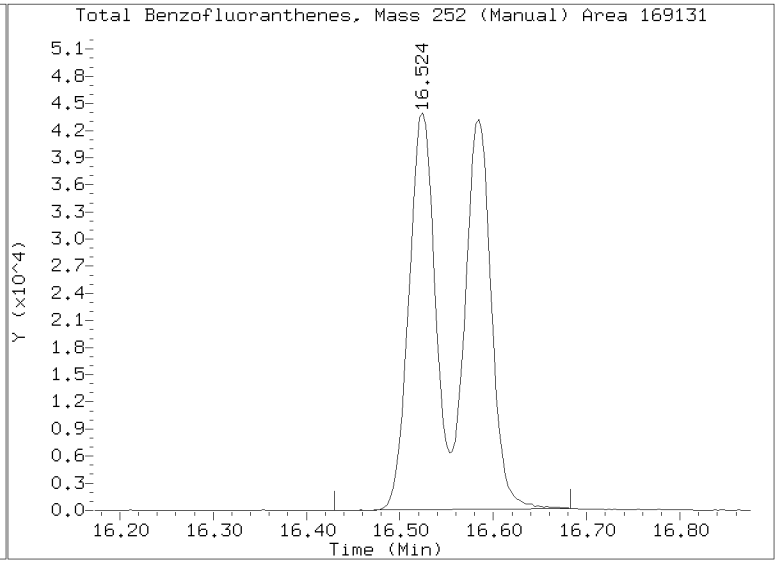
Datafile: //target/share/chem3/nt8.i/20220412.b/NT822041209.D
Injection Date: 12-APR-2022 16:16
Lab ID:SKD0159-SCV1 Client ID:
Report Date: 04/25/2022 12:21

REVIEWED
By Mark Weidner
11/30/2022 @ 12:23 PM









Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT8	Calibration:	FD00034
Lab File ID:	N822121502.D	Calibration Date:	04/12/2022
Sequence:	SKL0227	Injection Date:	12/15/22
Lab Sample ID:	SKL0227-ICV1	Injection Time:	10:02
Sequence Name:	Initial Cal Check		

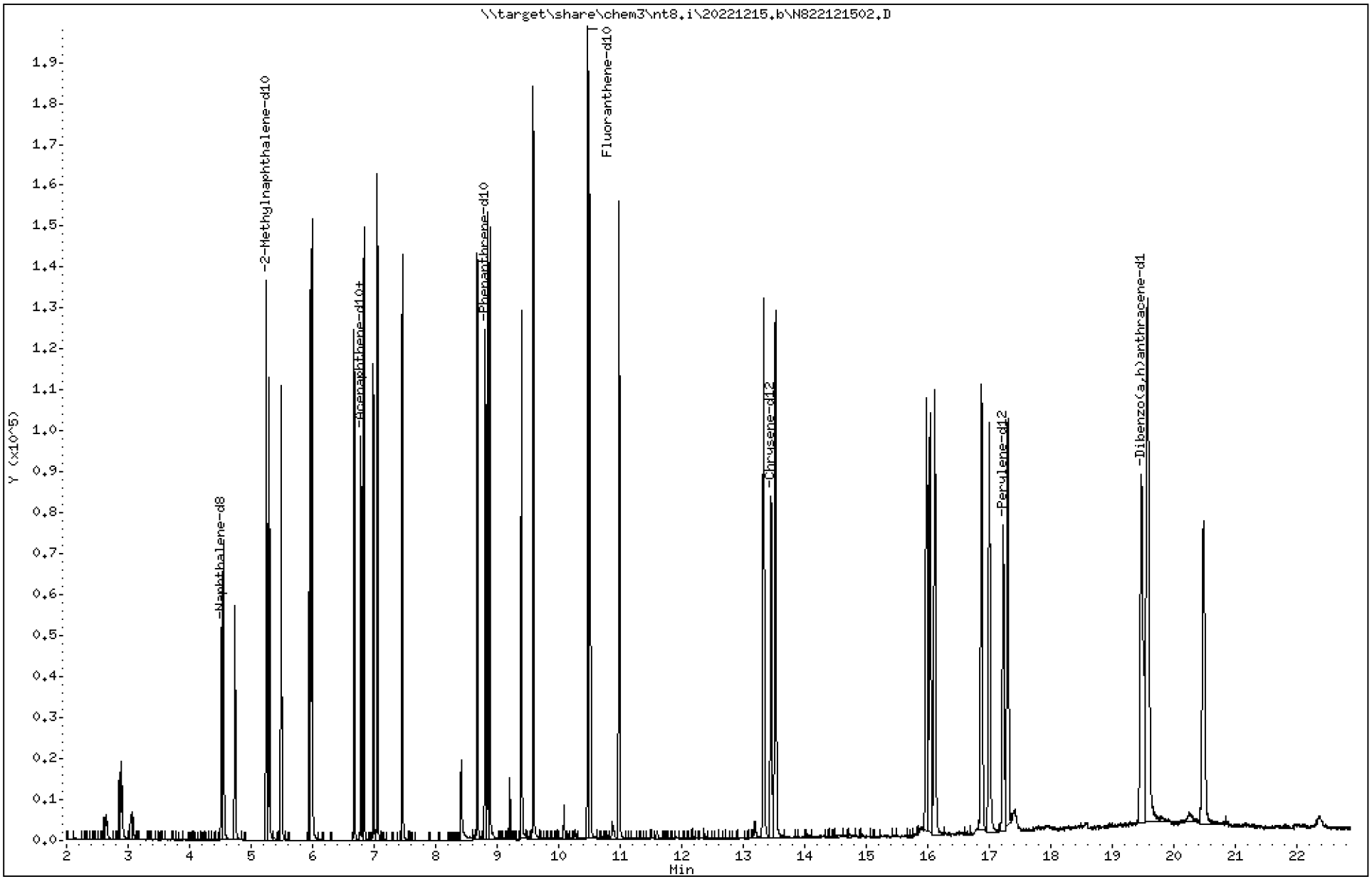
		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Naphthalene	A	2.5000	2.62	1.0134050	1.0632340		4.9	+/-20
2-Methylnaphthalene	A	2.5000	2.77	0.5766300	0.6379374		10.6	+/-20
Acenaphthylene	A	2.5000	2.73	1.7280280	1.8885220		9.3	+/-20
Acenaphthene	A	2.5000	2.71	1.1465730	1.2406700		8.2	+/-20
Fluorene	A	2.5000	2.78	1.2940860	1.4370260		11.0	+/-20
Phenanthrene	A	2.5000	2.47	1.0609790	1.0495130		-1.1	+/-20
Anthracene	A	2.5000	2.62	1.0162140	1.0656010		4.8	+/-20
Fluoranthene	A	2.5000	2.66	1.1608760	1.2371470		6.6	+/-20
Pyrene	A	2.5000	2.42	1.3517670	1.3080880		-3.2	+/-20
Benzo(a)anthracene	A	2.5000	2.63	1.2641170	1.3271210		5.0	+/-20
Chrysene	A	2.5000	2.57	1.2078770	1.2436300		3.0	+/-20
Benzo(b)fluoranthene	A	2.5000	2.13	1.4200070	1.2102960		-14.8	+/-20
Benzo(k)fluoranthene	A	2.5000	2.19	1.3172650	1.1534060		-12.4	+/-20
Benzo(a)pyrene	A	2.5000	2.37	1.1721640	1.1101890		-5.3	+/-20
Indeno(1,2,3-cd)pyrene	A	2.5000	2.79	1.1496440	1.2822570		11.5	+/-20
Dibenzo(a,h)anthracene	A	2.5000	2.82	0.9917600	1.1180470		12.7	+/-20
Benzo(g,h,i)perylene	A	2.5000	2.70	1.0694310	1.1534950		7.9	+/-20
2-Methylnaphthalene-d10	A	2.5000	2.90	0.7543317	0.8755354		16.1	+/-20
Dibenzo[a,h]anthracene-d14	A	2.5000	2.96	0.8591804	1.0172920		18.4	+/-20
Fluoranthene-d10	A	2.5000	2.84	1.3225110	1.5010760		13.5	+/-20
Naphthalene-d8	A	2.0000	2.00	29787.8300	1.0000		0.0	
Acenaphthene-d10	A	2.0000	2.00	17221.9200	1.0000		0.0	
Phenanthrene-d10	A	2.0000	2.00	30236.6700	1.0000		0.0	
Chrysene-d12	A	2.0000	2.00	26953.5800	1.0000		0.0	
Perylene-d12	A	2.0000	2.00	21836.4200	1.0000		0.0	

* Values outside of QC limits

Data File: \\target\share\chem3\nt8.i\20221215.b\N822121502.D
Date : 15-DEC-2022 10:02
Client ID:
Sample Info: ICV221215

Instrument: nt8.i
Operator: JZ
Column diameter: 0.25

Column phase: Rxi-17sil



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20221215.b\N822121502.D
Lab Smp Id: SKL0227-ICV1
Inj Date : 15-DEC-2022 10:02
Operator : JZ Inst ID: nt8.i
Smp Info : ICV221215
Misc Info : 22-
Comment   : 1ul Injection
Method   : \\target\share\chem3\nt8.i\20221215.b\FSIMPNA220411.m
Meth Date : 15-Dec-2022 21:32 Jianqing Quant Type: ISTD
Cal Date : 12-APR-2022 15:49 Cal File: NT822041208.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: FSIMPNAICLA.sub
Target Version: 4.14
Processing Host: JIANQING-202105

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
*	1 Naphthalene-d8	136	4.521	4.521	(1.000)	49492	2.00000	
	2 Naphthalene	128	4.549	4.549	(1.006)	65777	2.50000	2.623
$	3 2-Methylnaphthalene-d10	152	5.248	5.248	(1.161)	54165	2.50000	2.902
	4 2-Methylnaphthalene	141	5.295	5.295	(1.171)	39466	2.50000	2.766
	5 1-methylnaphthalene	141	5.488	5.488	(1.214)	38884	2.50000	2.787
	7 Biphenyl	154	5.953	5.953	(0.877)	56578	2.50000	2.582
	8 2,6-Dimethylnaphthalene	156	5.991	5.991	(0.883)	41347	2.50000	2.706
	9 Acenaphthylene	152	6.677	6.677	(0.984)	70999	2.50000	2.732
*	10 Acenaphthene-d10	164	6.785	6.785	(1.000)	30076	2.00000	
	11 Acenaphthene	153	6.835	6.835	(1.007)	46643	2.50000	2.705
	12 Dibenzofuran	168	6.987	6.987	(1.030)	65783	2.50000	2.719
	13 1,6,7-Trimethylnaphthalene	170	7.056	7.056	(1.040)	43189	2.50000	2.780
	14 Fluorene	166	7.458	7.458	(1.099)	54025	2.50000	2.776
	18 Dibenzothiophene	184	8.682	8.682	(0.986)	74999	2.50000	2.491
*	15 Phenanthrene-d10	188	8.805	8.805	(1.000)	58825	2.00000	
	16 Phenanthrene	178	8.840	8.840	(1.004)	77172	2.50000	2.473
	17 Anthracene	178	8.881	8.881	(1.009)	78355	2.50000	2.621
	19 Carbazole	167	9.399	9.399	(1.068)	73251	2.50000	2.655
	20 1-Methylphenanthrene	192	9.589	9.589	(1.089)	63131	2.50000	2.635
	22 Fluoranthene	202	10.512	10.512	(1.194)	90969	2.50000	2.664
$	21 Fluoranthene-d10	212	10.478	10.478	(1.190)	110376	2.50000	2.838
	23 Pyrene	202	10.984	10.984	(0.816)	95806	2.50000	2.419
	24 Benzo(a)anthracene	228	13.333	13.333	(0.991)	97200	2.50000	2.625
*	25 Chrysene-d12	240	13.453	13.453	(1.000)	58593	2.00000	
	27 Chrysene	228	13.526	13.526	(1.005)	91085	2.50000	2.574
	28 Benzo(b)fluoranthene	252	15.986	15.986	(0.928)	95329	2.50000	2.131
	29 Benzo(k)fluoranthene	252	16.043	16.043	(0.931)	90848	2.50000	2.189
	30 Benzo(j)fluoranthene	252	16.119	16.119	(0.936)	89727	2.50000	2.353
	31 Total Benzofluoranthenes	252	15.986	15.986	(0.928)	275870	7.50000	6.686(M)
	34 Benzo(e)pyrene	252	16.878	16.878	(0.980)	93099	2.50000	2.226
	32 Benzo(a)pyrene	252	17.004	17.004	(0.987)	87444	2.50000	2.368
*	33 Perylene-d12	264	17.229	17.229	(1.000)	63012	2.00000	
	35 Perylene	252	17.308	17.308	(1.005)	89277	2.50000	2.414

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 36 Dibenzo(a,h)anthracene-d14	292	19.470	19.470	(1.130)	80127	2.50000	2.960
37 Indeno(1,2,3-cd)pyrene	276	19.587	19.587	(1.137)	100997	2.50000	2.788
38 Dibenzo(a,h)anthracene	278	19.568	19.568	(1.136)	88063	2.50000	2.818
39 Benzo(g,h,i)perylene	276	20.492	20.492	(1.189)	90855	2.50000	2.697

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt8.i
Lab File ID: N822121502.D
Lab Smp Id: SKL0227-ICV1
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: \\target\share\chem3\nt8.i\20221215.b\FSIMPNA220411.m
Misc Info: 22-

Calibration Date: 15-DEC-2022
Calibration Time: 15:05
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	56136	28068	112272	49492	-11.84
10 Acenaphthene-d10	32604	16302	65208	30076	-7.75
15 Phenanthrene-d10	58288	29144	116576	58825	0.92
25 Chrysene-d12	52801	26401	105602	58593	10.97
33 Perylene-d12	42745	21373	85490	63012	47.41

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	4.52	4.02	5.02	4.52	0.00
10 Acenaphthene-d10	6.79	6.29	7.29	6.79	0.00
15 Phenanthrene-d10	8.81	8.31	9.31	8.81	0.00
25 Chrysene-d12	13.45	12.95	13.95	13.45	0.00
33 Perylene-d12	17.23	16.73	17.73	17.23	0.00

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

REVIEW SUMMARY FOR FILE - N822121502.D

Lab ID: SKL0227-ICV1
nt8.i, 20221215.b\FSIMPNA220411.m,   15-DEC-2022 10:02

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

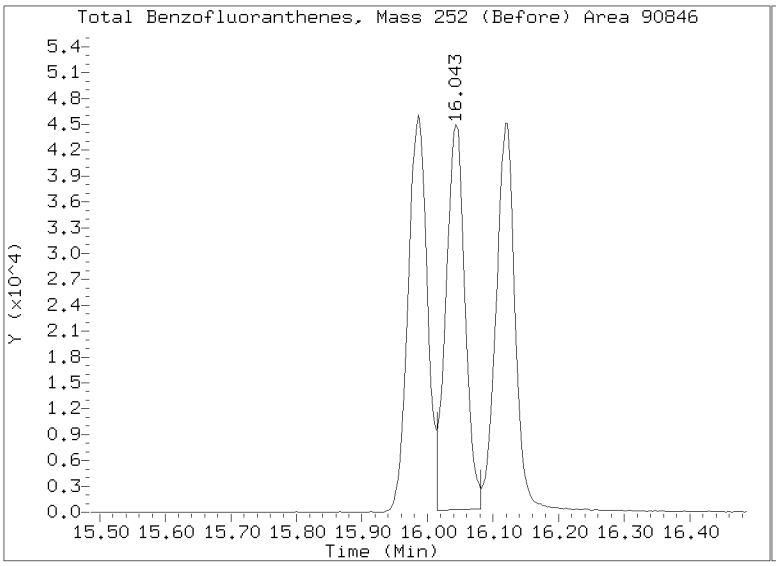
No RRT check performed

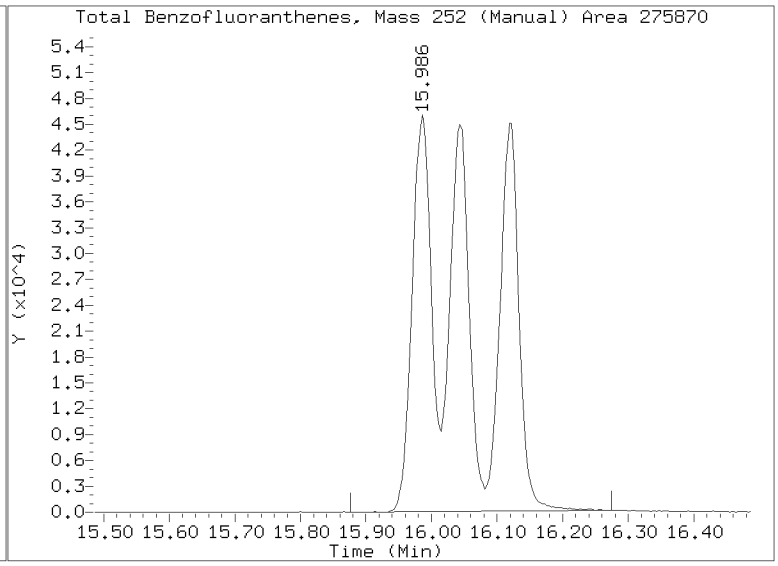
On Column LOD for nt8.i, 20221215.b\FSIMPNA220411.m, FSIMPNAICLA.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20221215.b/N822121502.D
Injection Date: 15-DEC-2022 10:02
Lab ID:SKL0227-ICV1 Client ID:
Report Date: 12/15/2022 21:32





Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt8.i\20221215.b

Instrument: nt8.i Date: 15-DEC-2022 Method: 20221215.b\FSIMPNA220411.m

INITIAL CAL: 12-APR-2022

Compound	%RSD or R^2
NO Q-FLAGS	

ICV CAL: N822121502.D 15-DEC-2022 10:02

Compound	%D
NO Q-FLAGS	

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8270E-SIM

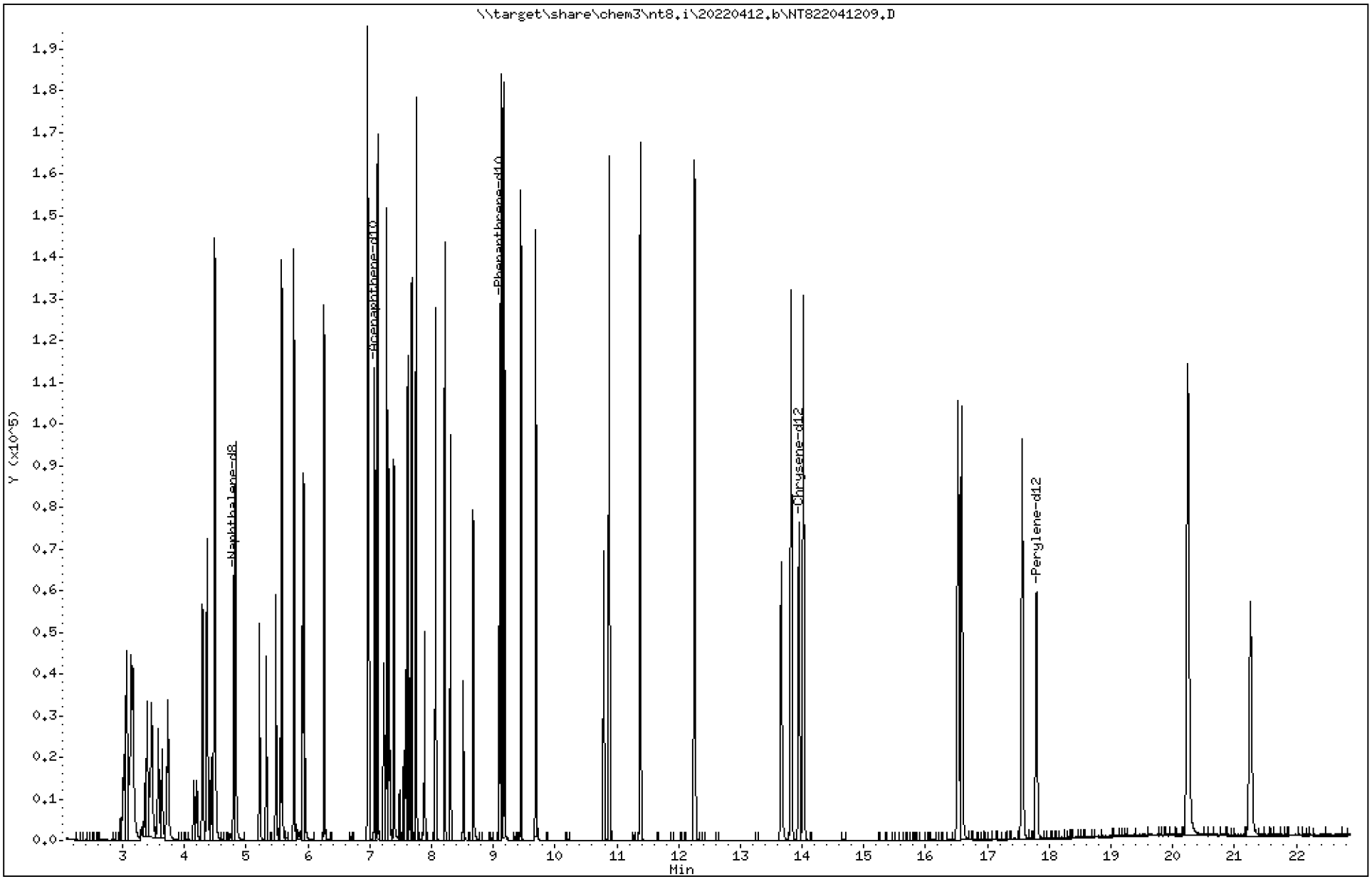
Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT8	Calibration:	FD00034
Lab File ID:	NT822041209.D	Calibration Date:	04/12/2022
Sequence:	SKD0159	Injection Date:	04/12/22
Lab Sample ID:	SKD0159-SCV1	Injection Time:	16:16
Sequence Name:	8270 SIM PNA SCV		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Naphthalene	A	2.5000	2.81	1.0134050	1.1403700		12.5	
2-Methylnaphthalene	A	2.5000	2.91	0.5766300	0.6706587		16.3	
1-Methylnaphthalene	A	2.5000	3.00	0.5638957	0.6769479		20.0	
Acenaphthylene	A	2.5000	2.97	1.7280280	2.0522680		18.8	
Acenaphthene	A	2.5000	2.67	1.1465730	1.2261040		6.9	
Dibenzofuran	A	2.5000	3.19	1.6085940	2.0540340		27.7	
Fluorene	A	2.5000	2.82	1.2940860	1.4615560		12.9	
Phenanthrene	A	2.5000	2.90	1.0609790	1.2311590		16.0	
Anthracene	A	2.5000	2.99	1.0162140	1.2147990		19.5	
Fluoranthene	A	2.5000	2.98	1.1608760	1.3840220		19.2	
Pyrene	A	2.5000	3.03	1.3517670	1.6402430		21.3	
Benzo(a)anthracene	A	2.5000	2.98	1.2641170	1.5076440		19.3	
Chrysene	A	2.5000	2.92	1.2078770	1.4091340		16.7	
Benzo(b)fluoranthene	A	2.5000	2.89	1.4200070	1.6405310		15.5	
Benzo(k)fluoranthene	A	2.5000	3.08	1.3172650	1.6246210		23.3	
Benzofluoranthenes, Total	A	5.0000	6.10	1.3097130	1.5979120		22.0	
Benzo(a)pyrene	A	2.5000	3.16	1.1721640	1.4831690		26.5	
Indeno(1,2,3-cd)pyrene	A	2.5000	3.17	1.1496440	1.4594930		27.0	
Dibenzo(a,h)anthracene	A	2.5000	2.99	0.9917600	1.1847510		19.5	
Benzo(g,h,i)perylene	A	2.5000	2.92	1.0694310	1.2494870		16.8	

* Values outside of QC limits

Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D
Date : 12-APR-2022 16:16
Client ID:
Sample Info: SCV220411,
Volume Injected (uL): 1.0
Column phase: Rxi-17sil

Instrument: nt8.i
Operator: JZ
Column diameter: 0.25



Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

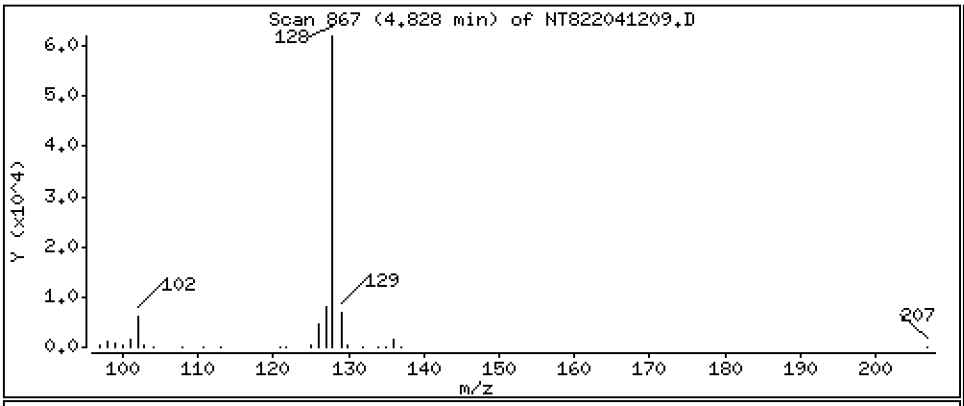
Operator: JZ

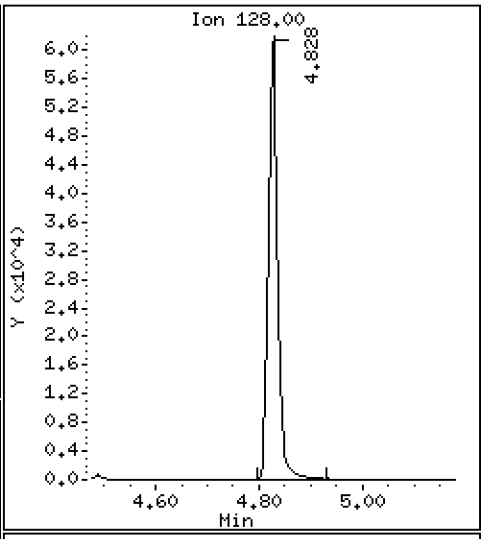
Column phase: Rxi-17sil

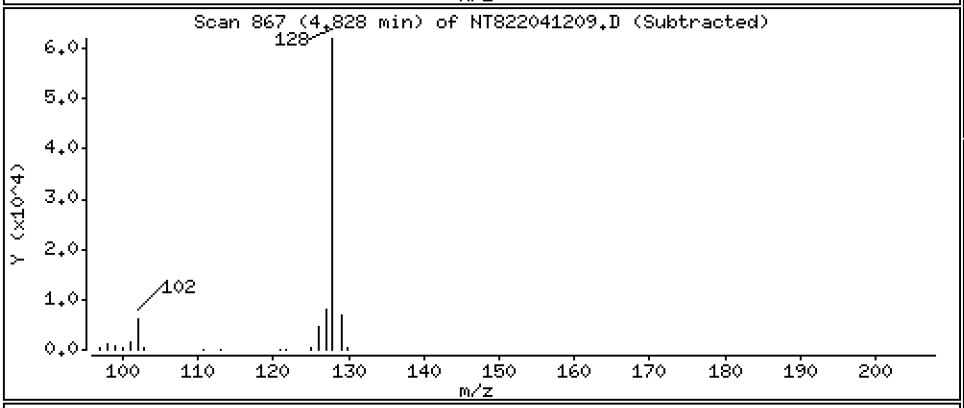
Column diameter: 0.25

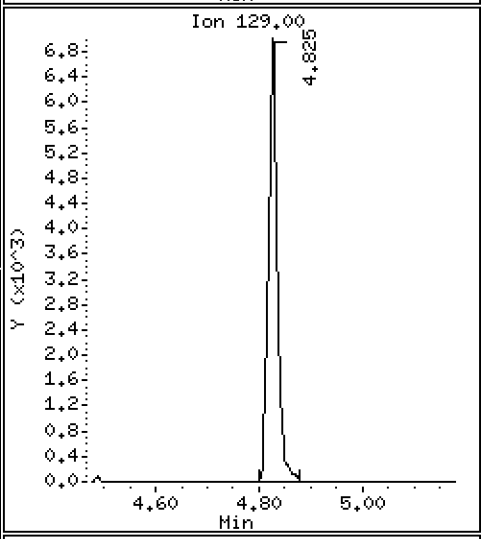
2 Naphthalene

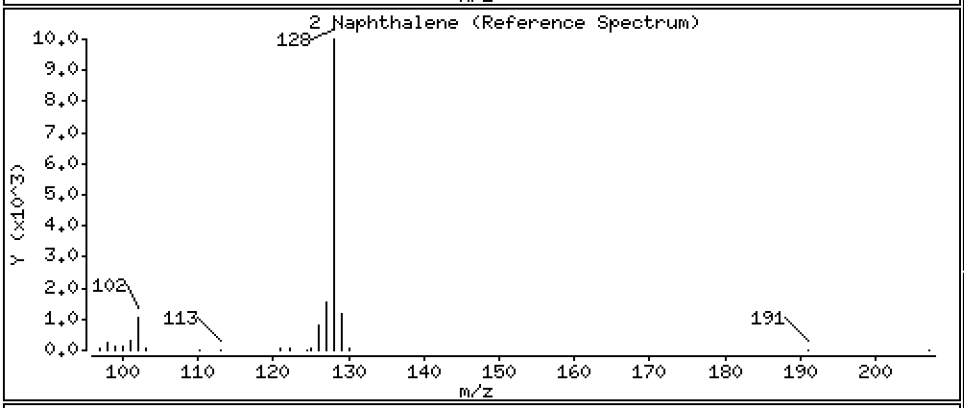
Concentration: 2.813 ug/L

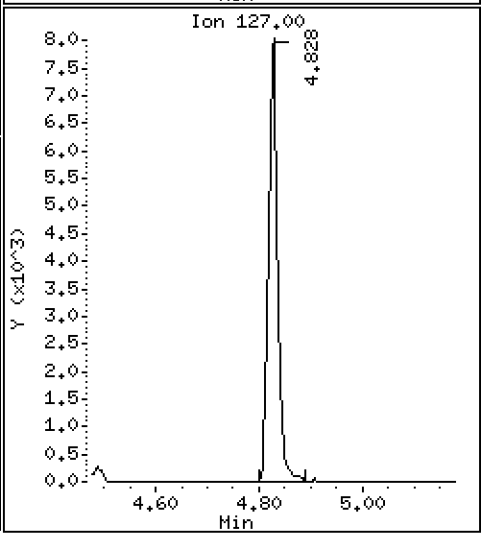


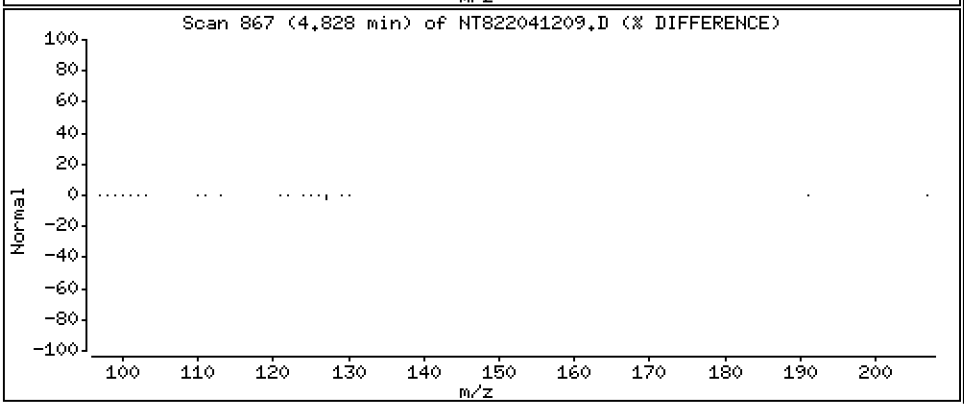












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

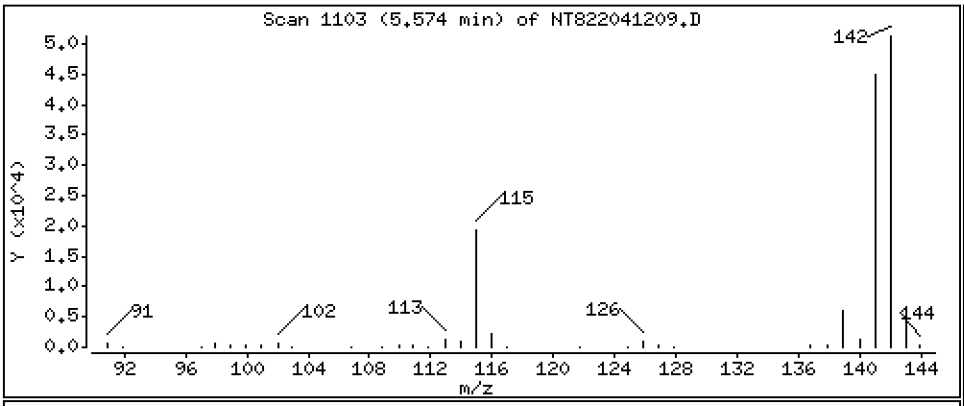
Operator: JZ

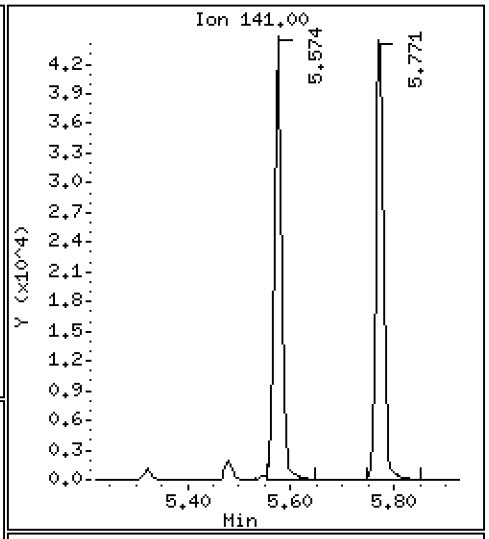
Column phase: Rxi-17sil

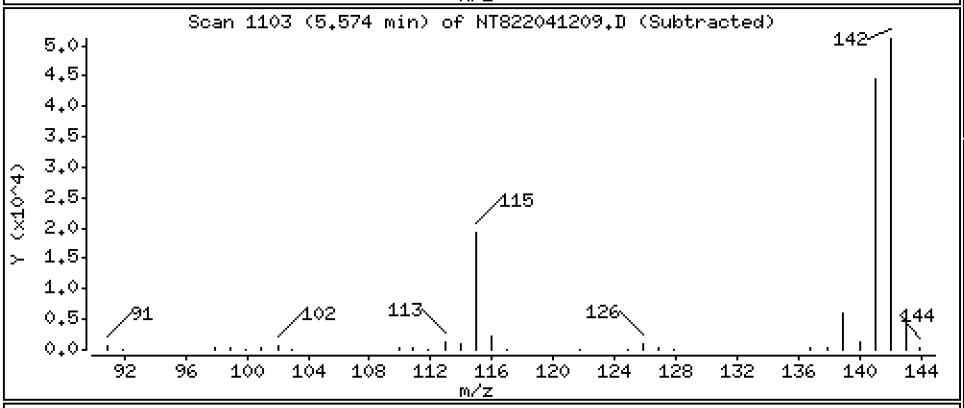
Column diameter: 0.25

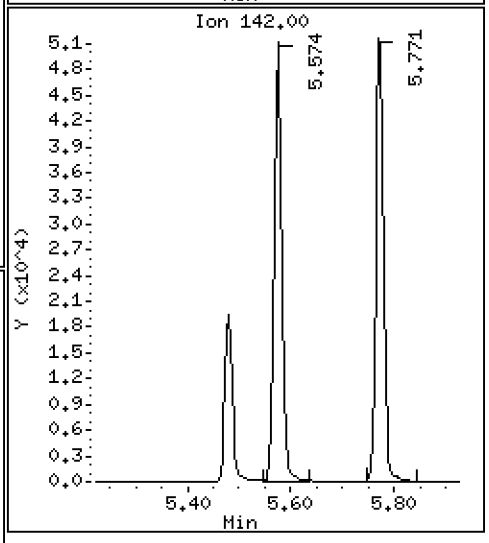
4 2-Methylnaphthalene

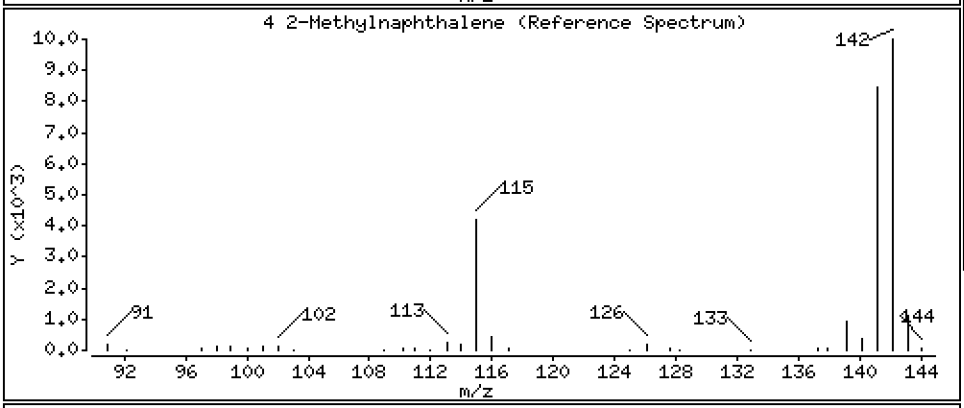
Concentration: 2.908 ug/L

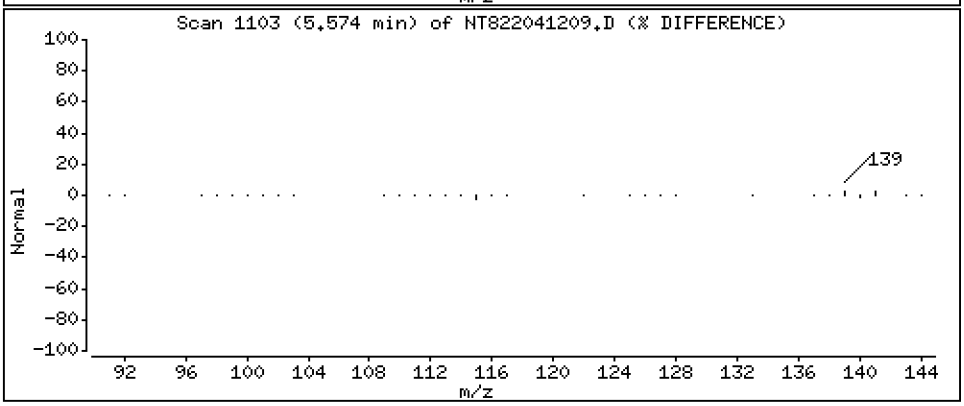












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Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

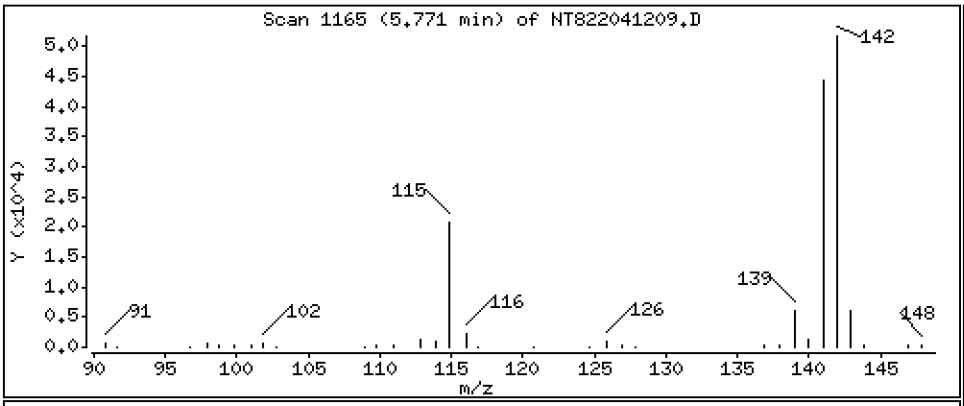
Operator: JZ

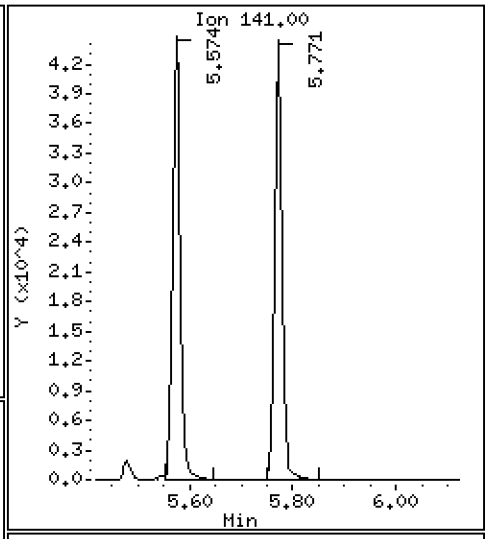
Column phase: Rxi-17sil

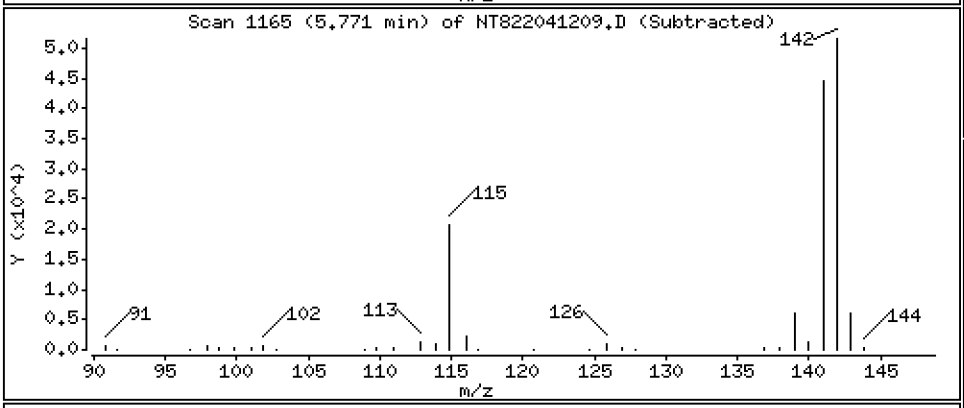
Column diameter: 0.25

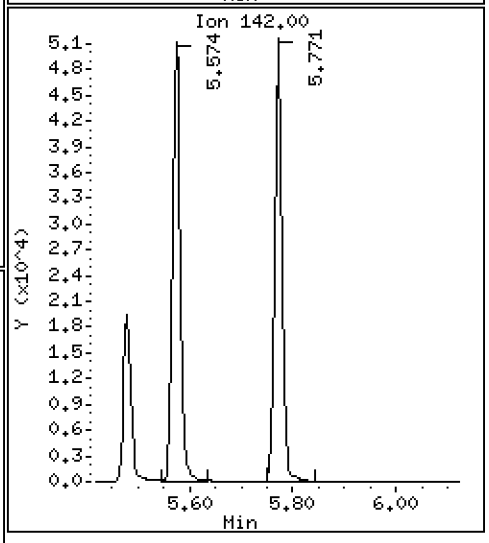
5 1-methylnaphthalene

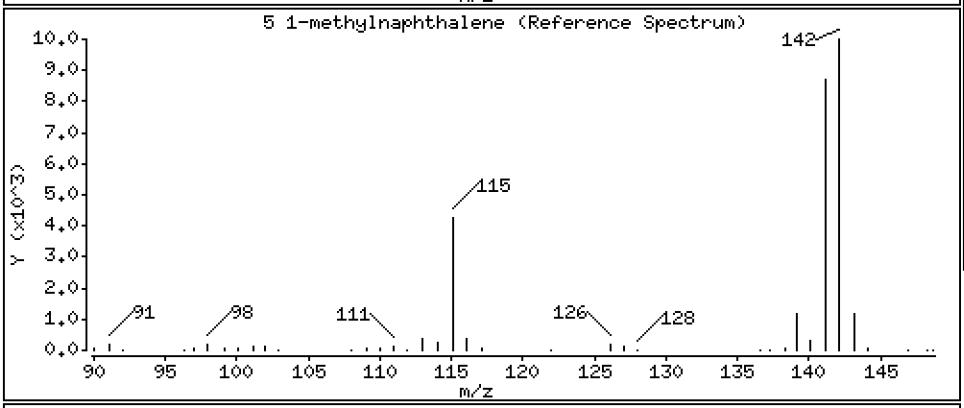
Concentration: 3.001 ug/L

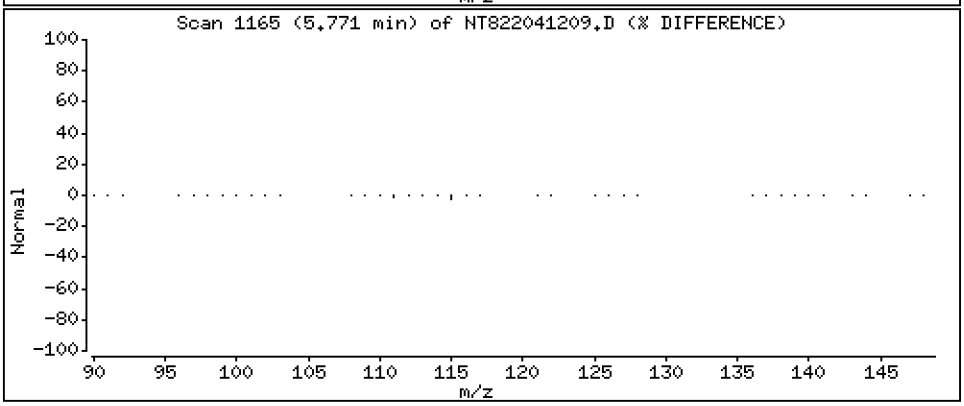












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Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

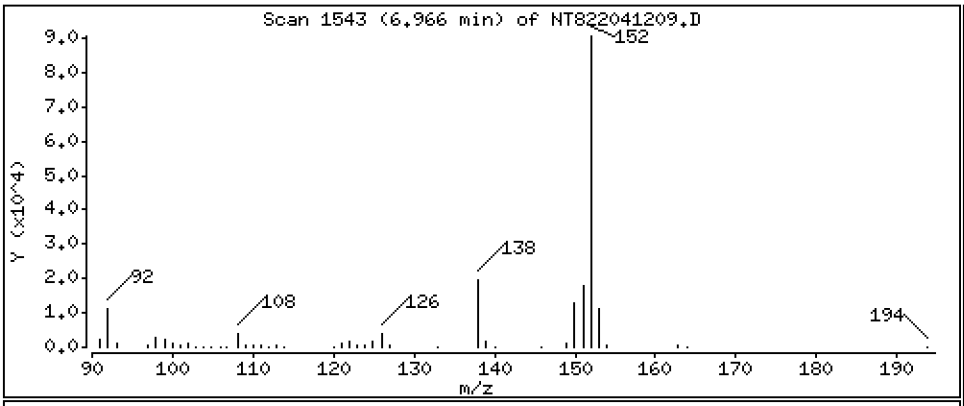
Operator: JZ

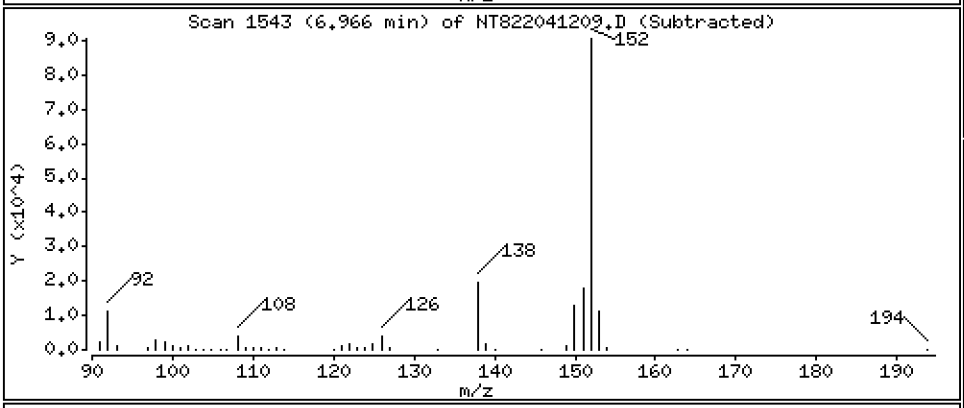
Column phase: Rxi-17sil

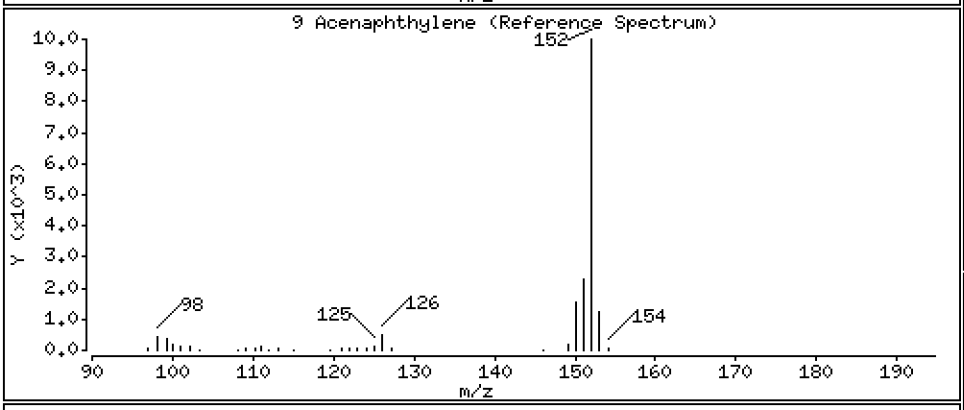
Column diameter: 0.25

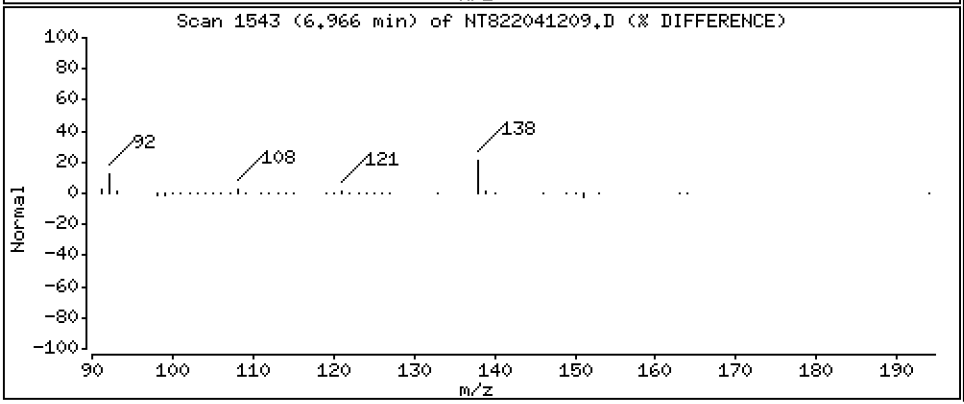
9 Acenaphthylene

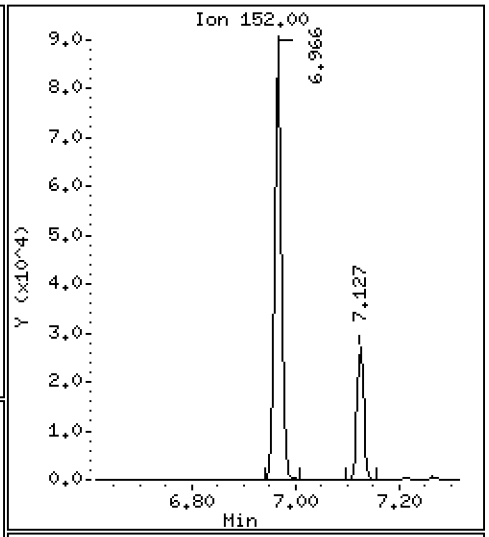
Concentration: 2.969 ug/L

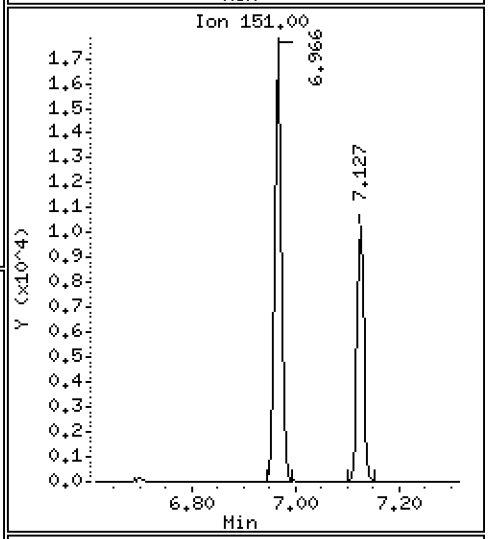


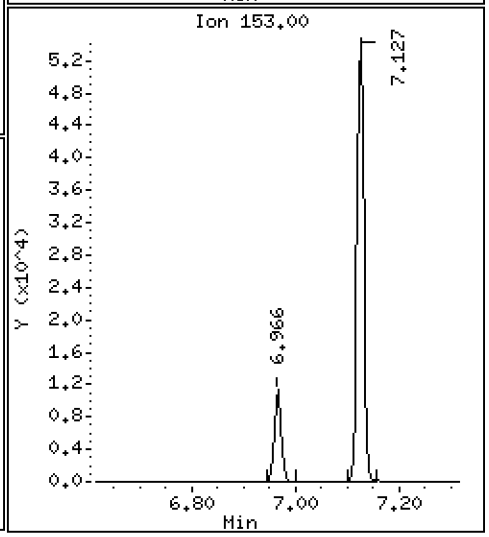












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Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

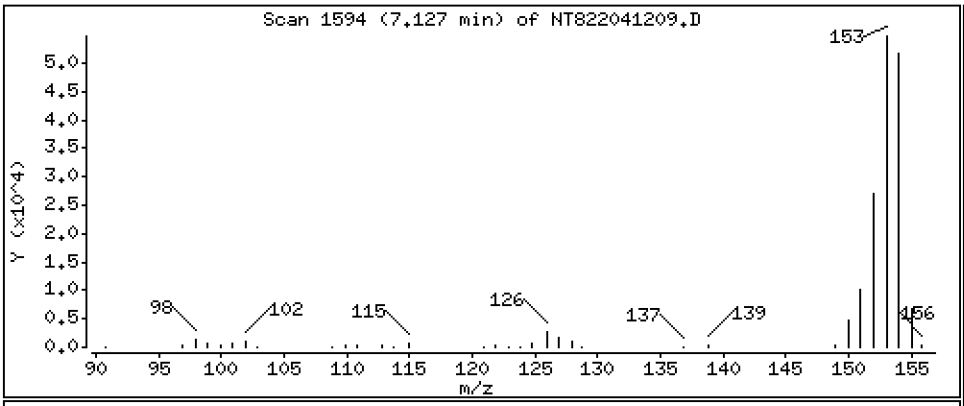
Operator: JZ

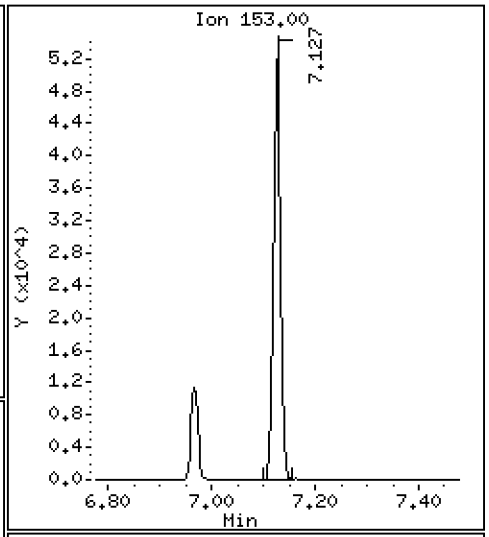
Column phase: Rxi-17sil

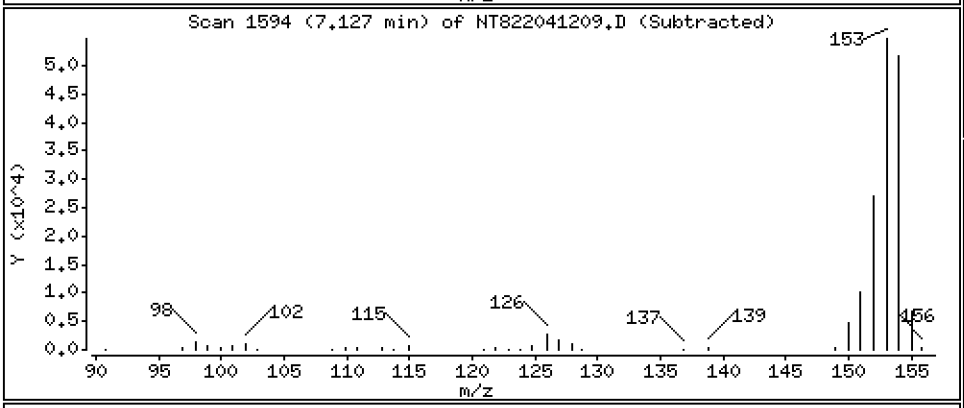
Column diameter: 0.25

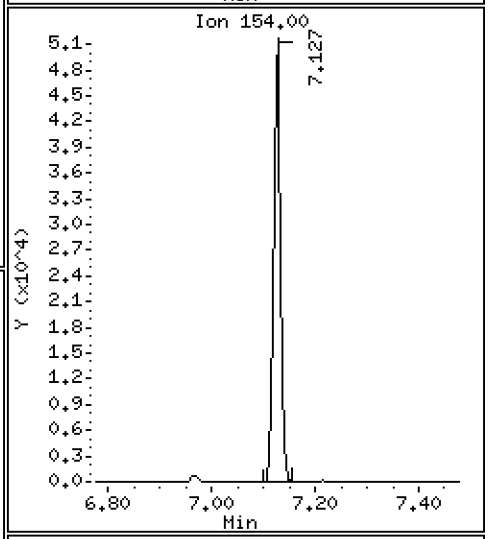
11 Acenaphthene

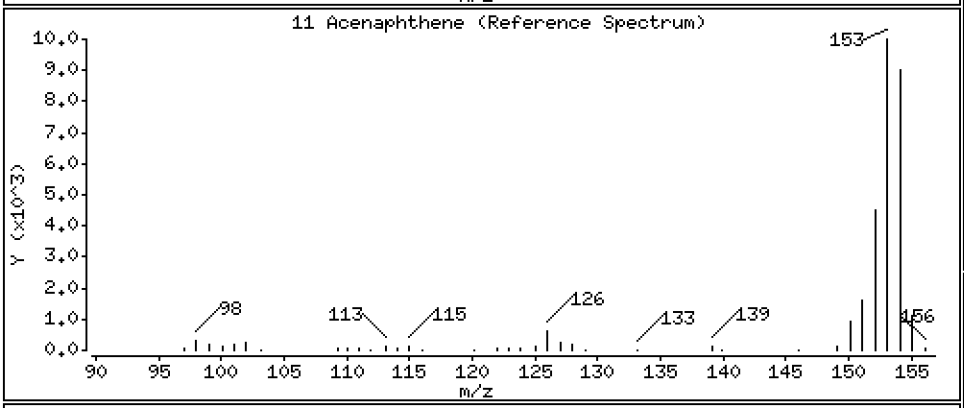
Concentration: 2.673 ug/L

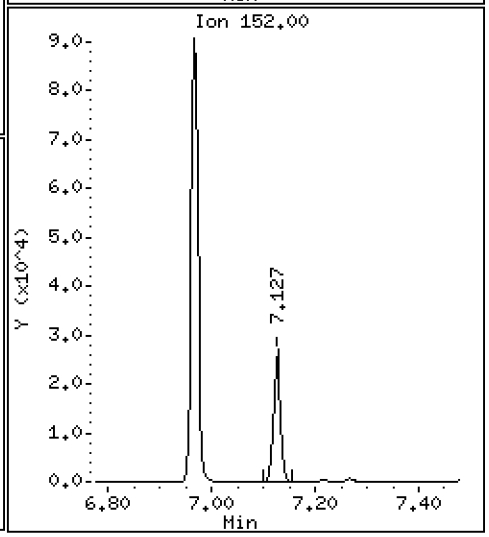


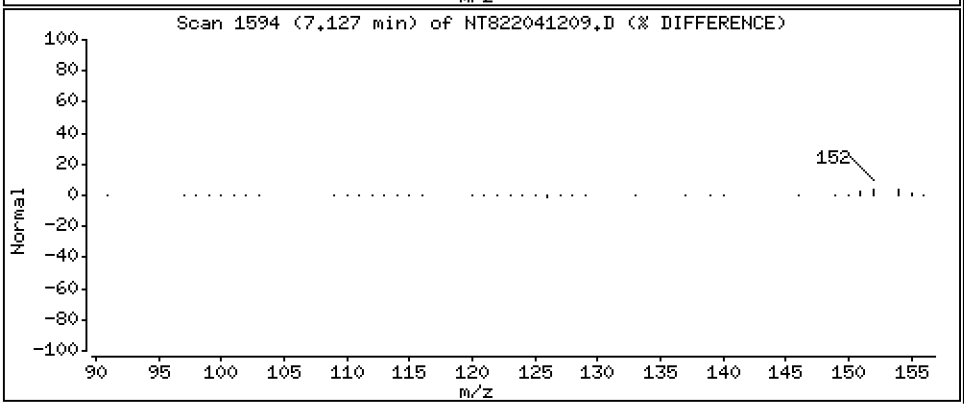












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Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

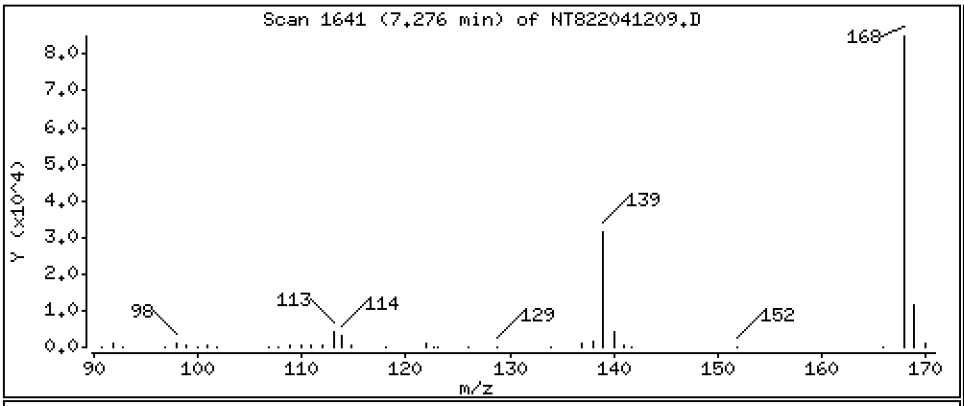
Operator: JZ

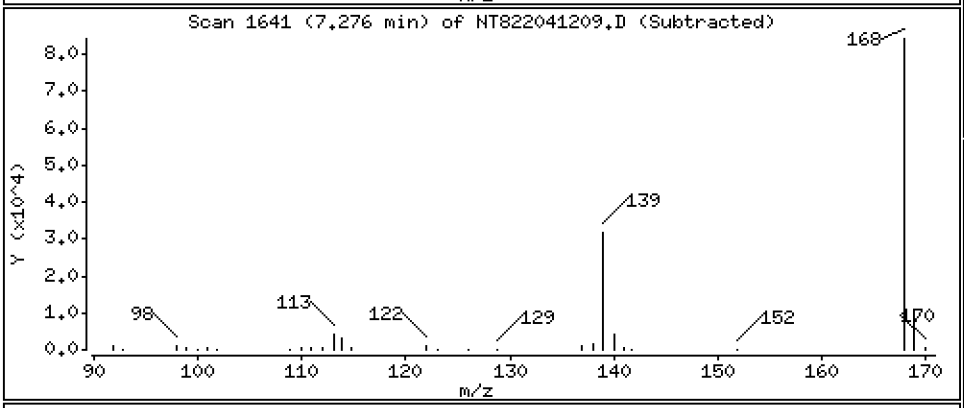
Column phase: Rxi-17sil

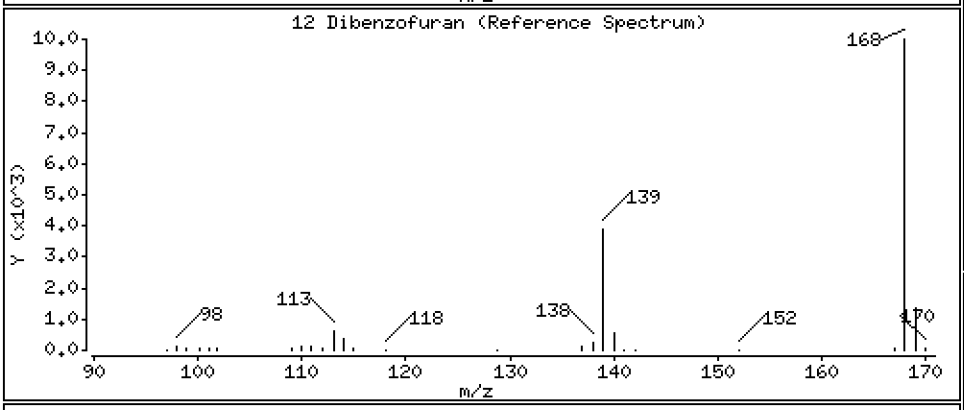
Column diameter: 0.25

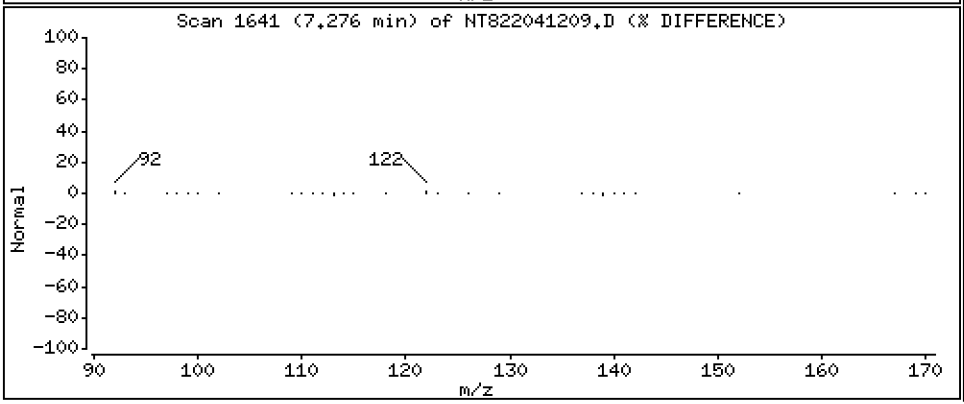
12 Dibenzofuran

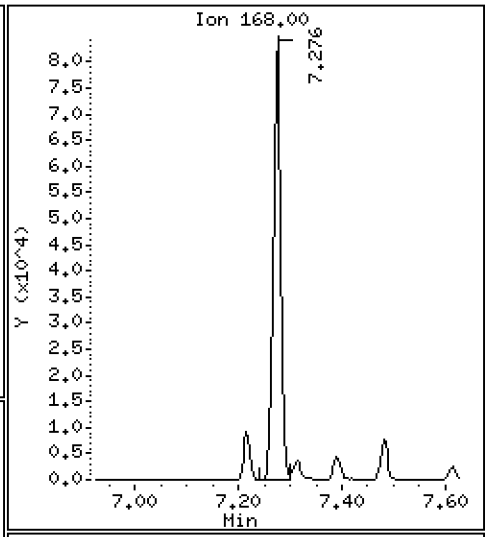
Concentration: 3.192 ug/L

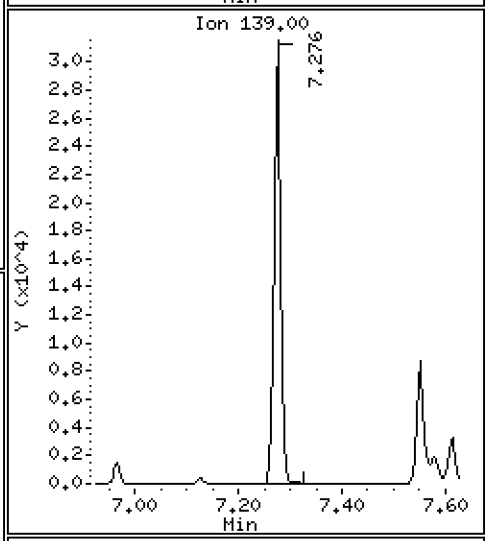


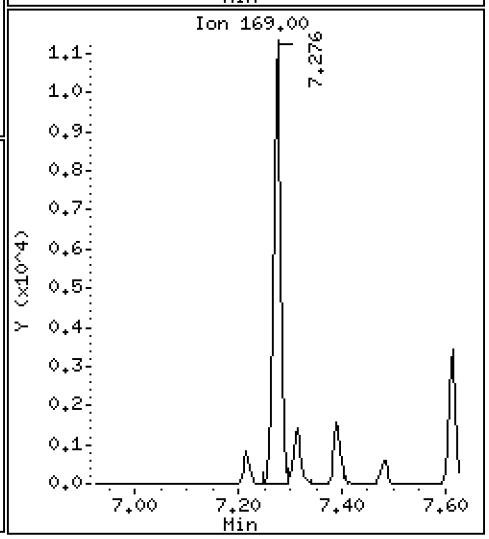












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Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

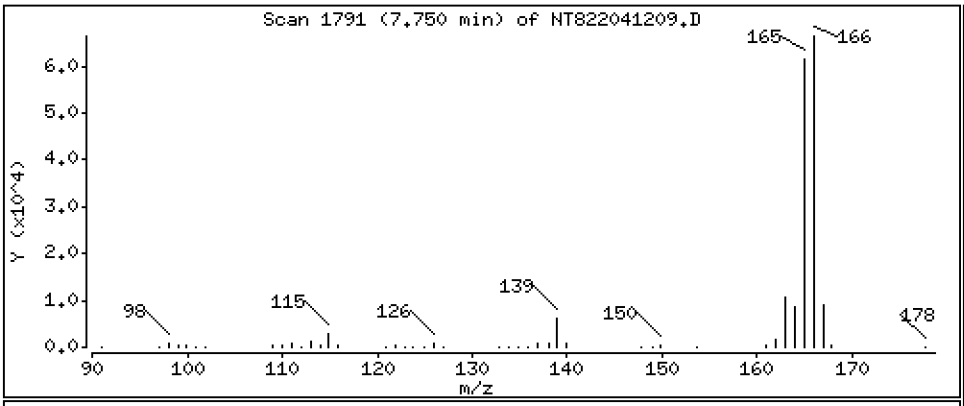
Operator: JZ

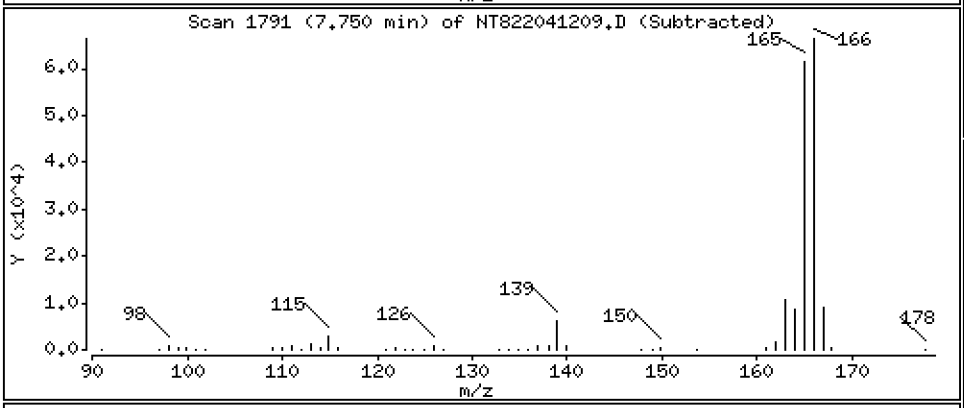
Column phase: Rxi-17sil

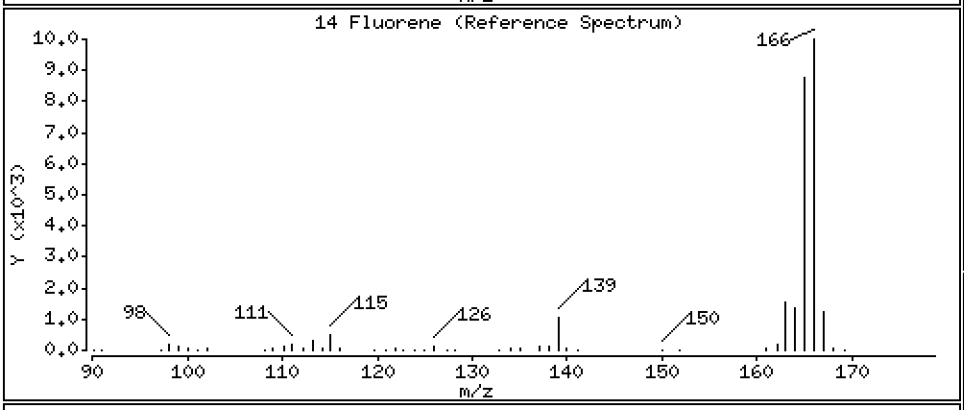
Column diameter: 0.25

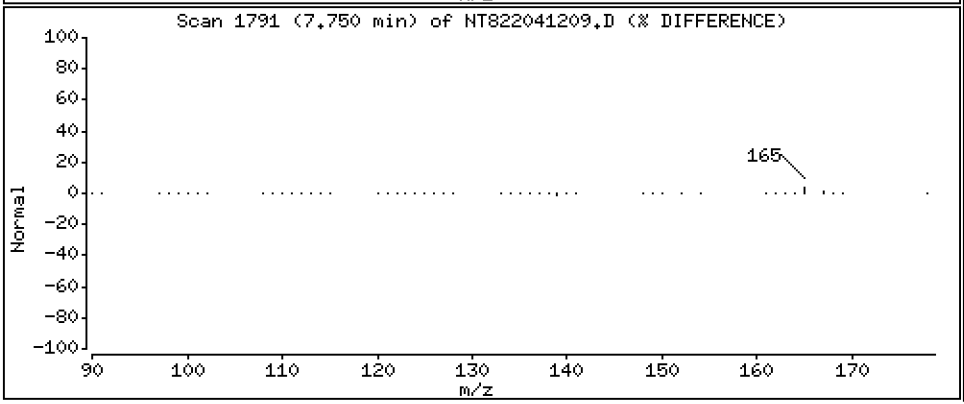
14 Fluorene

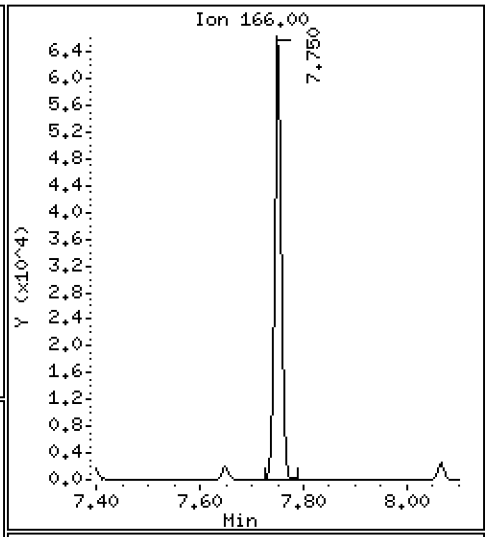
Concentration: 2.824 ug/L

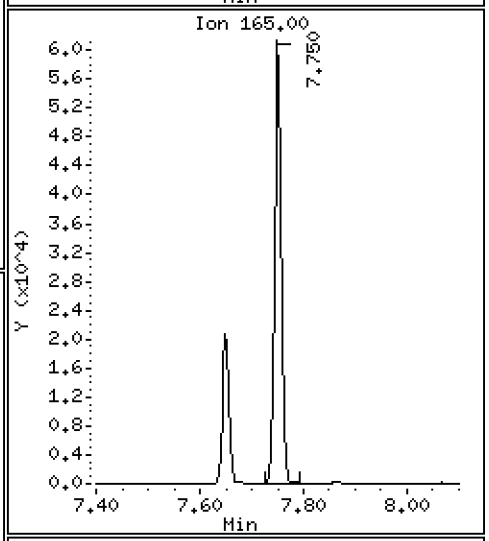


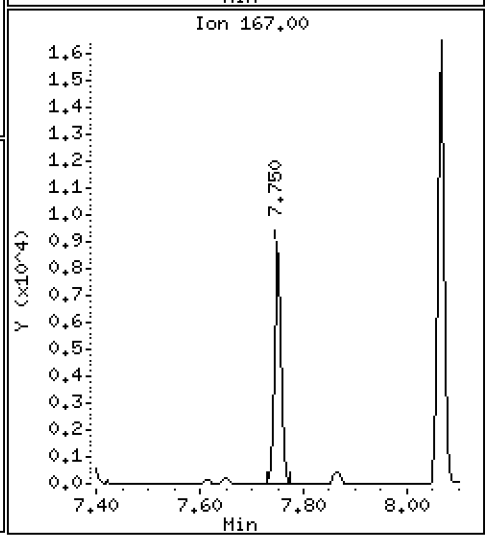












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

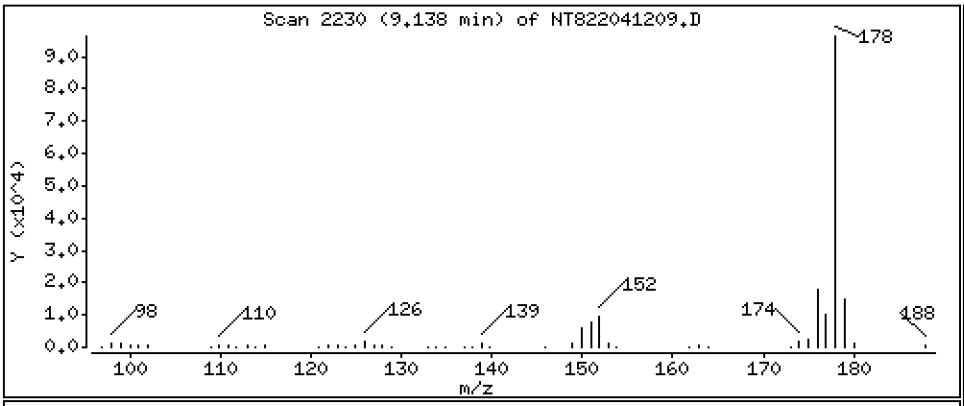
Operator: JZ

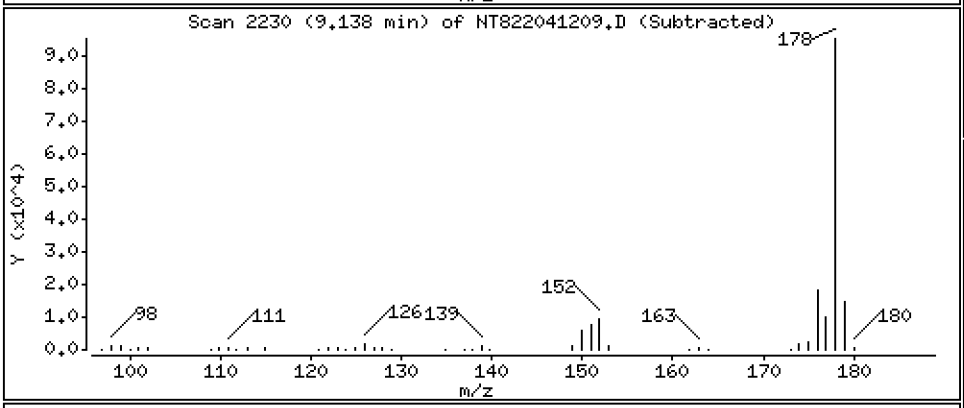
Column phase: Rxi-17sil

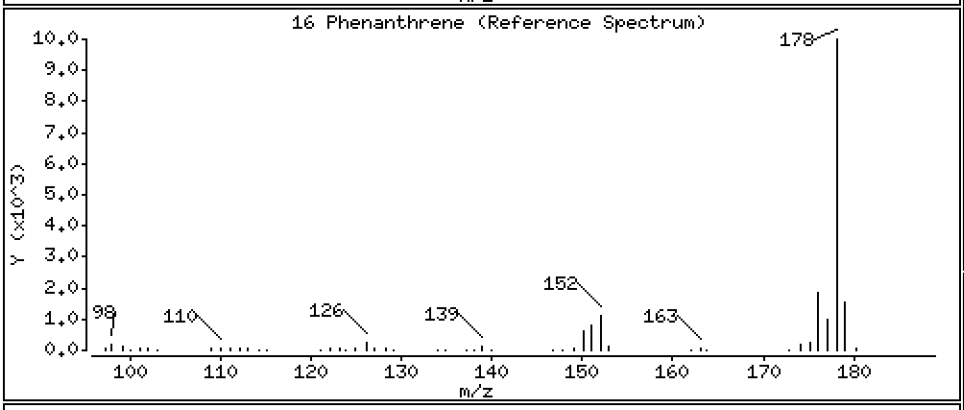
Column diameter: 0.25

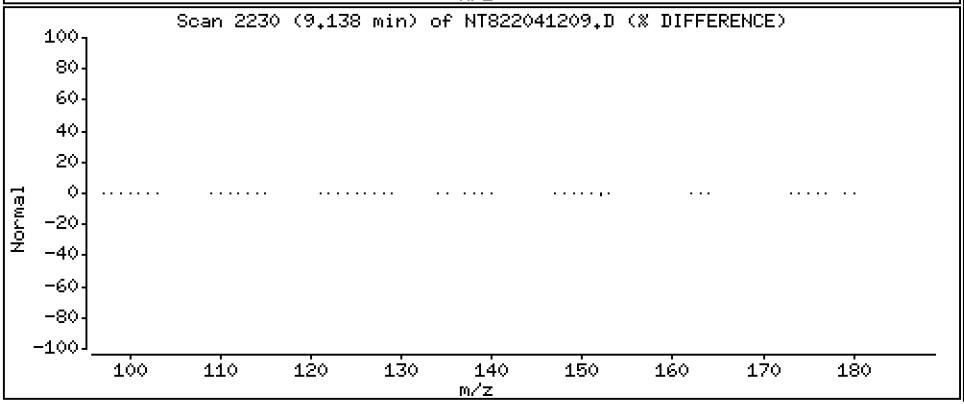
16 Phenanthrene

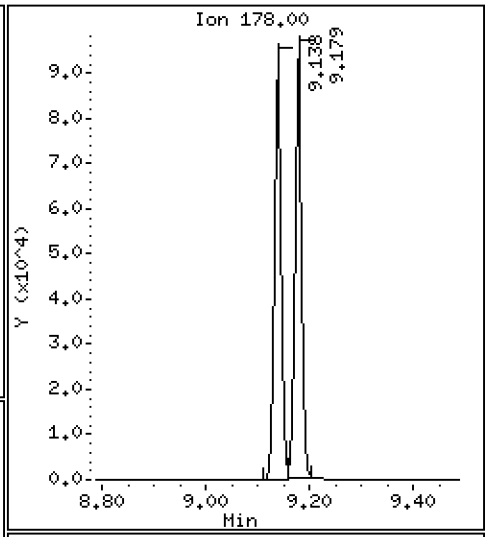
Concentration: 2.901 ug/L

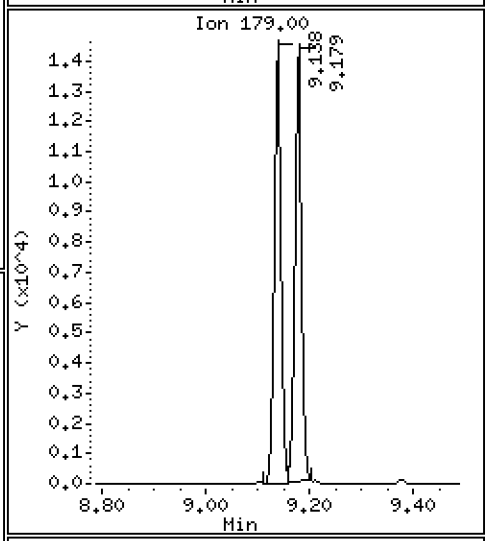


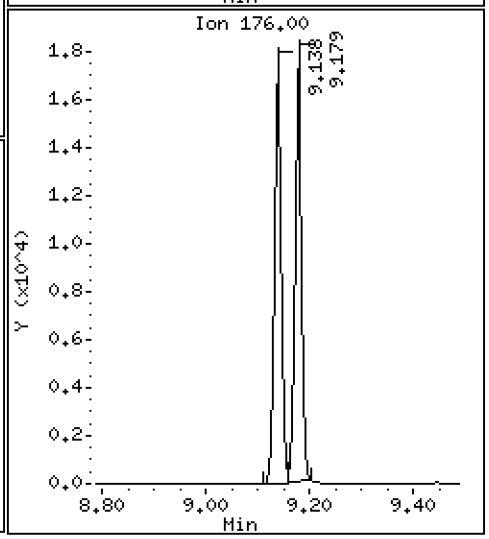












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

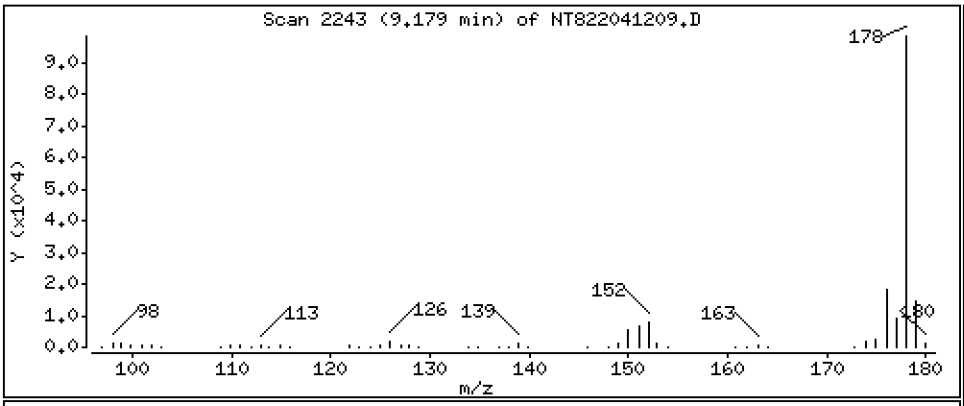
Operator: JZ

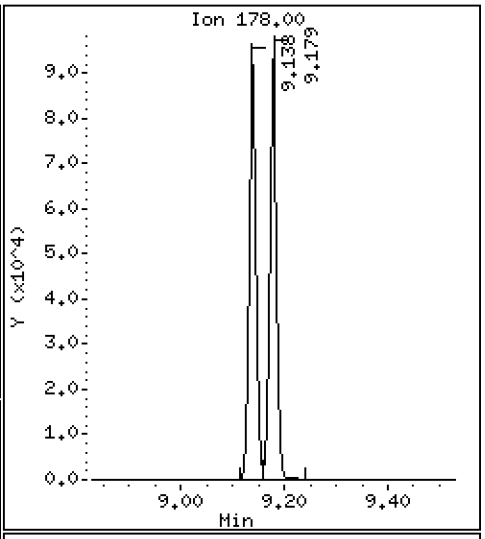
Column phase: Rxi-17sil

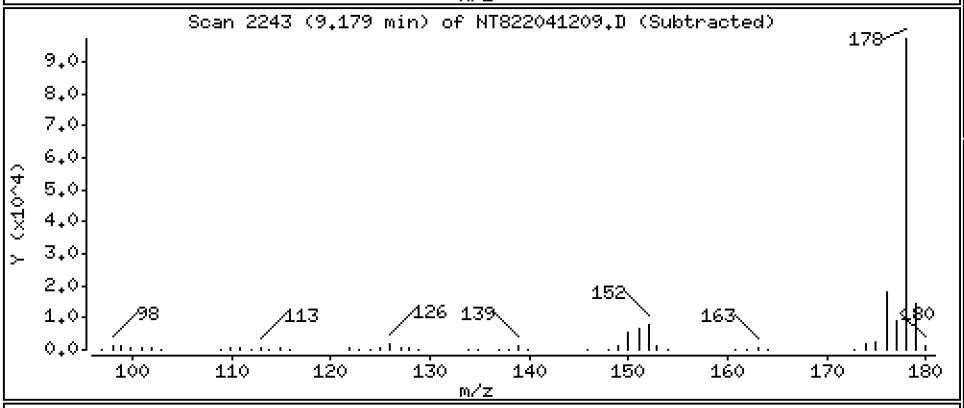
Column diameter: 0.25

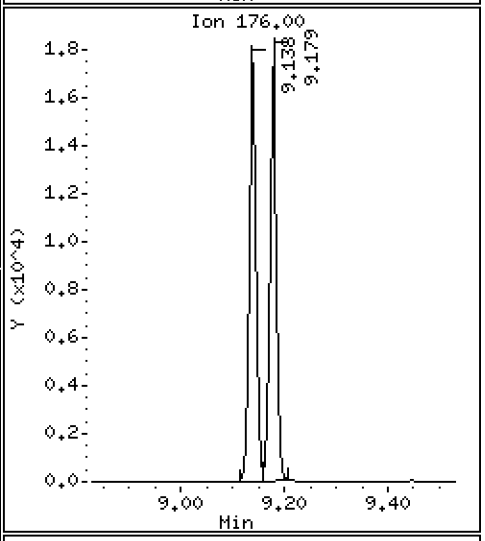
17 Anthracene

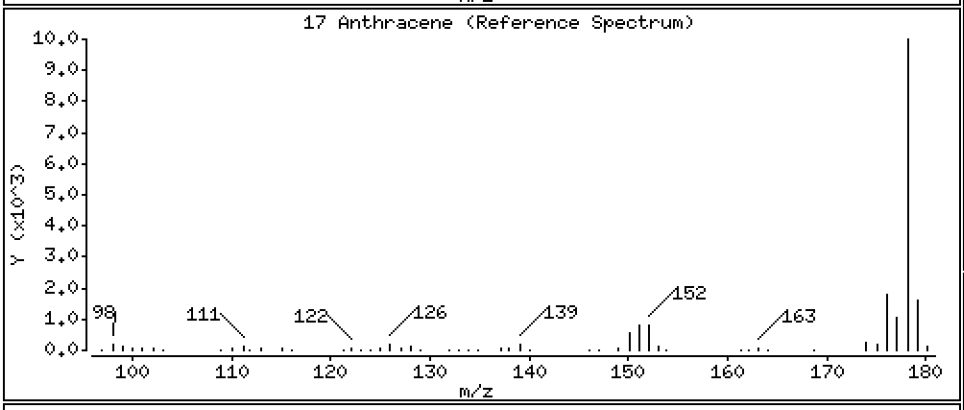
Concentration: 2.989 ug/L

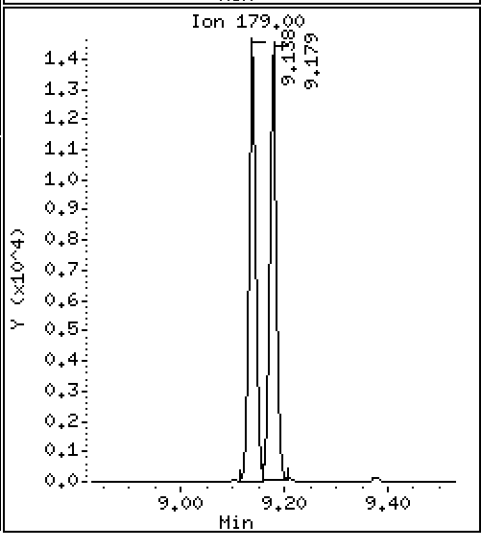


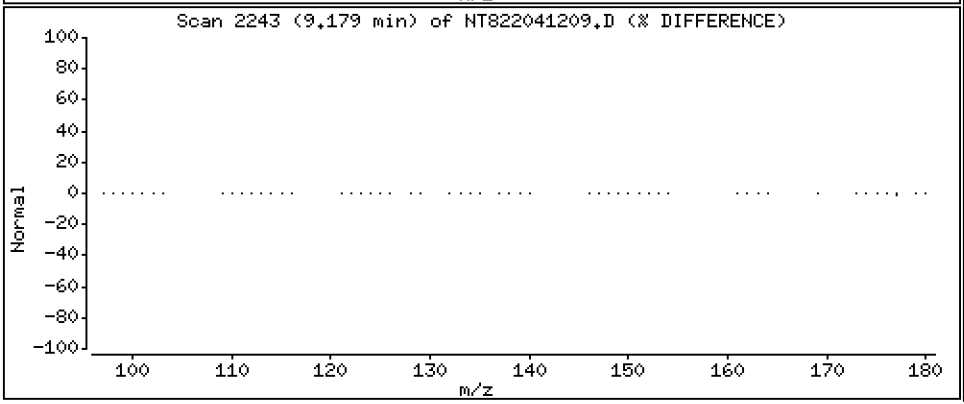












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

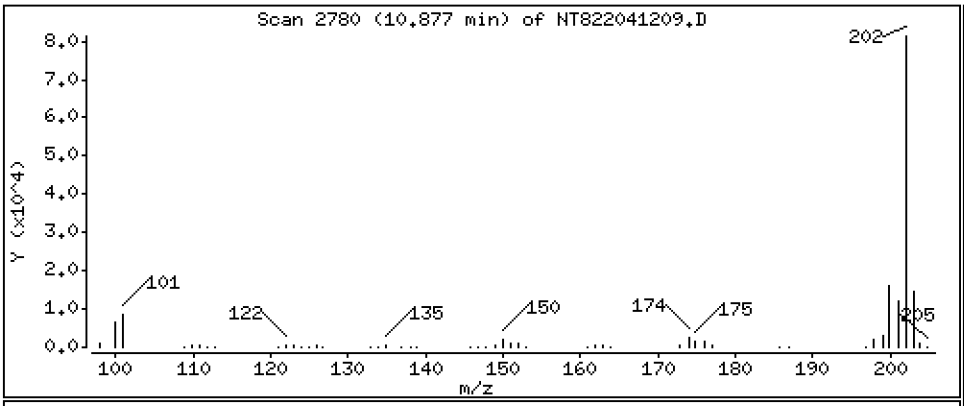
Operator: JZ

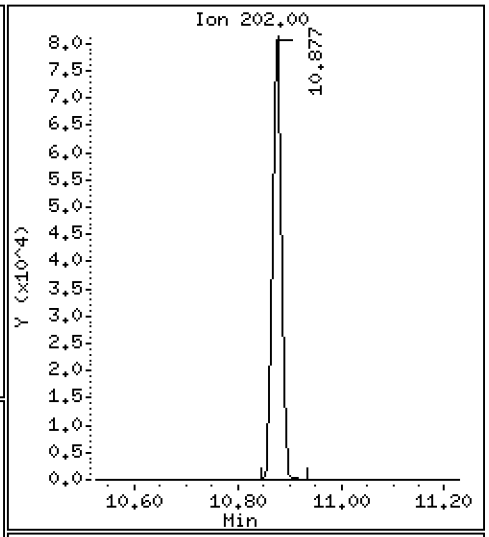
Column phase: Rxi-17sil

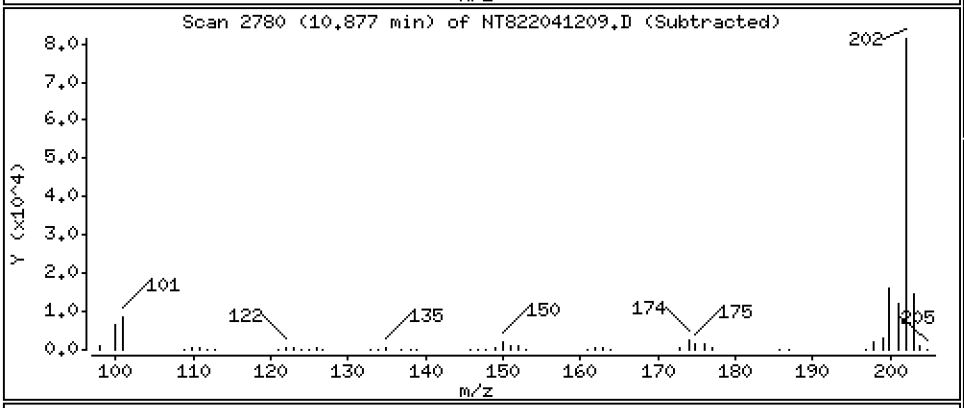
Column diameter: 0.25

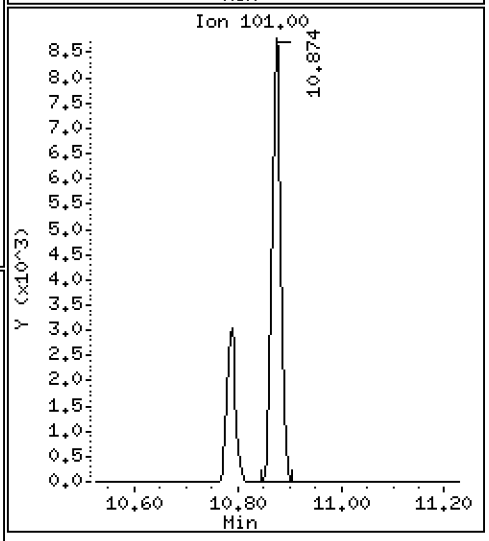
22 Fluoranthene

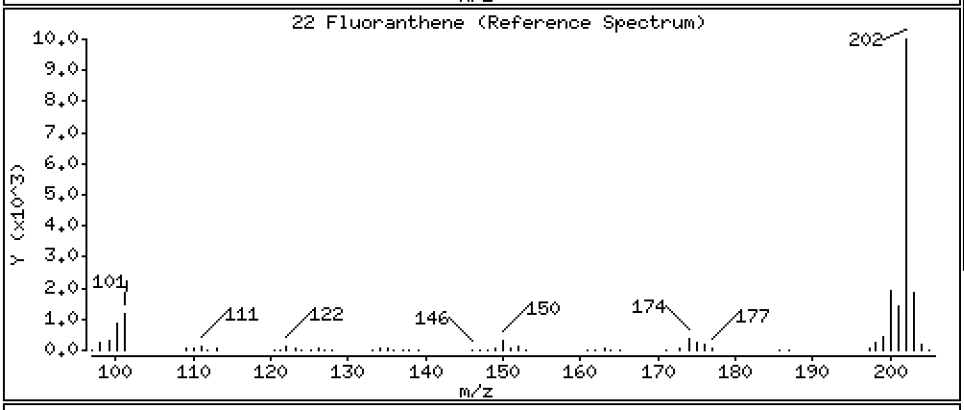
Concentration: 2.981 ug/L

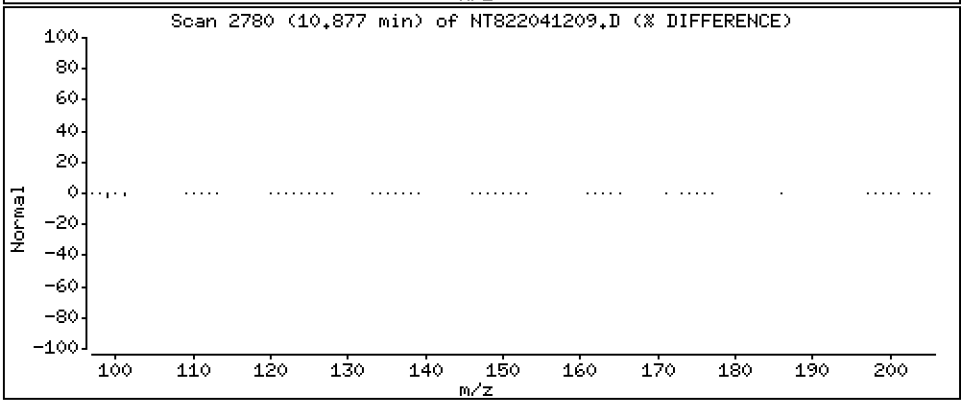












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

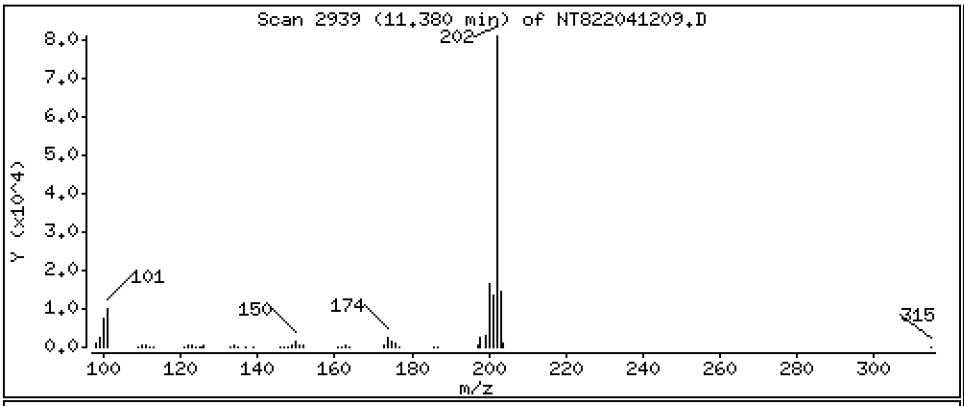
Operator: JZ

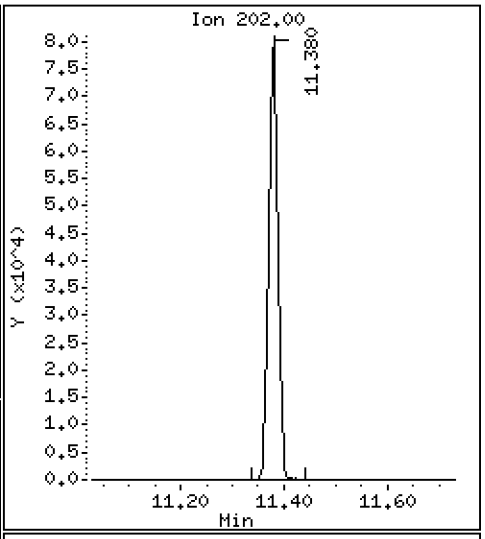
Column phase: Rxi-17sil

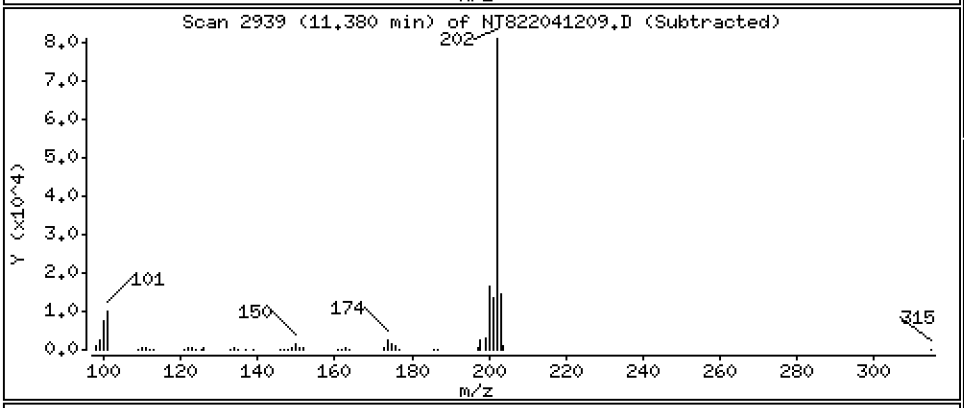
Column diameter: 0.25

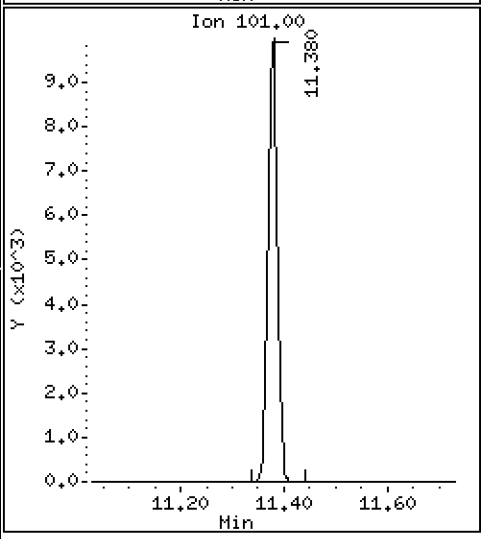
23 Pyrene

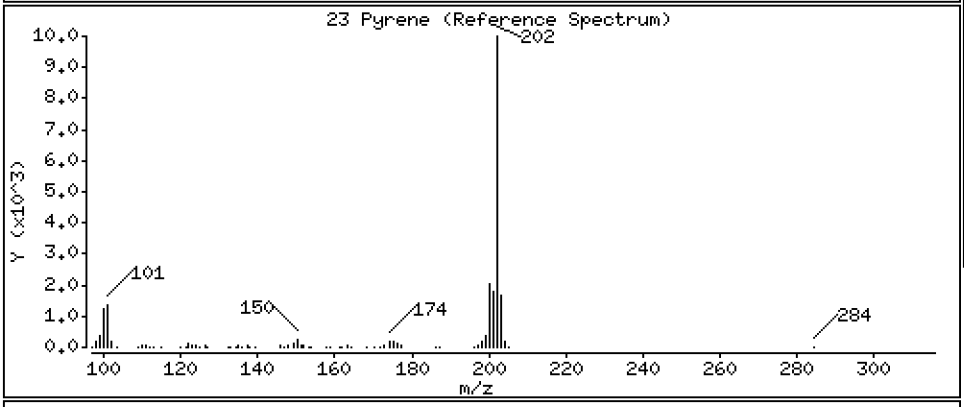
Concentration: 3.034 ug/L

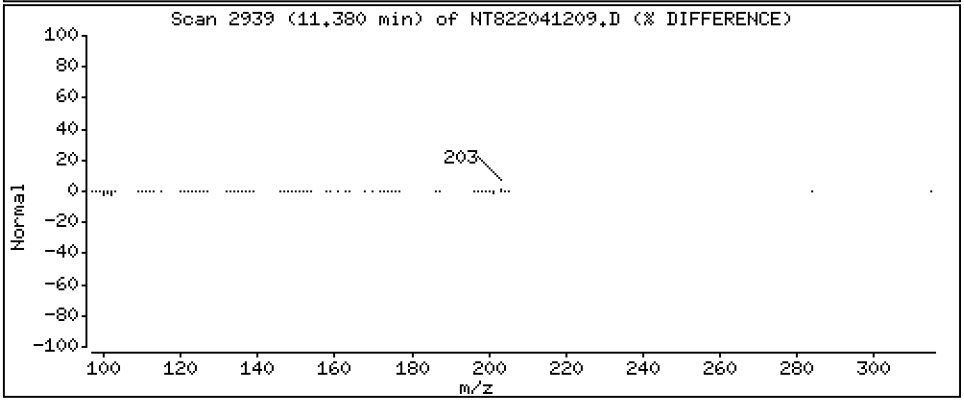












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

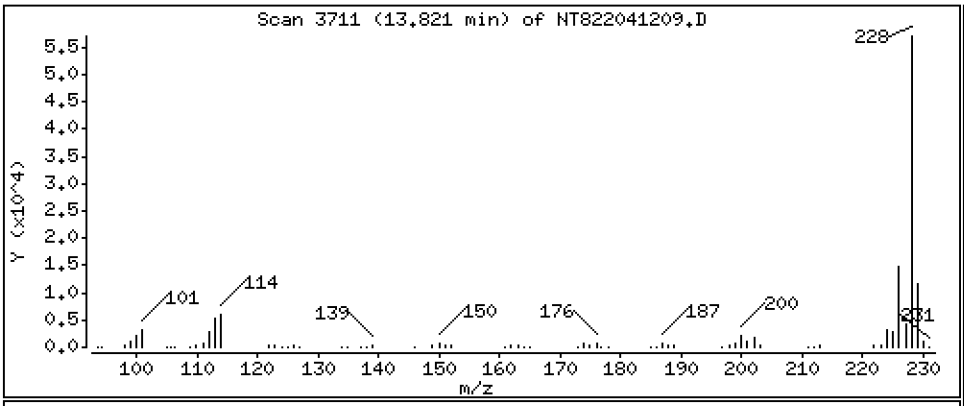
Operator: JZ

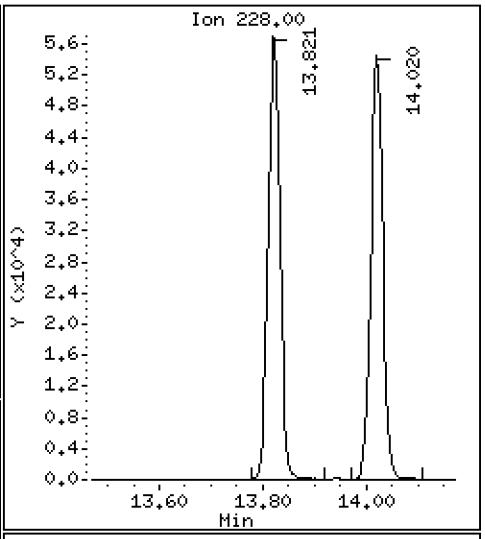
Column phase: Rxi-17sil

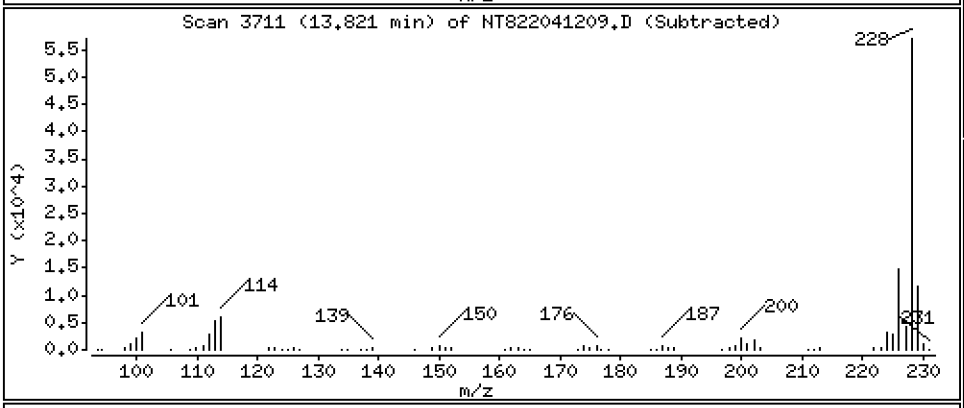
Column diameter: 0.25

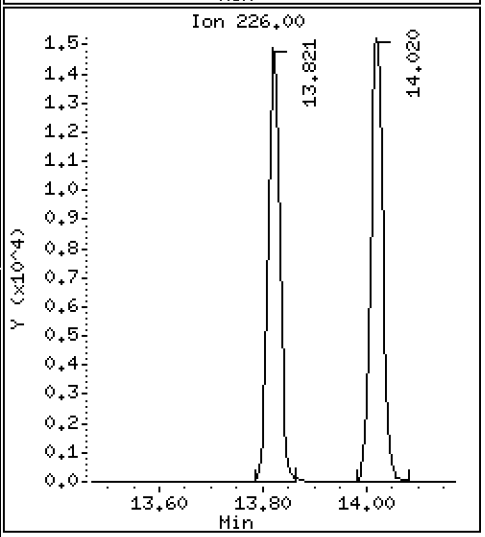
24 Benzo(a)anthracene

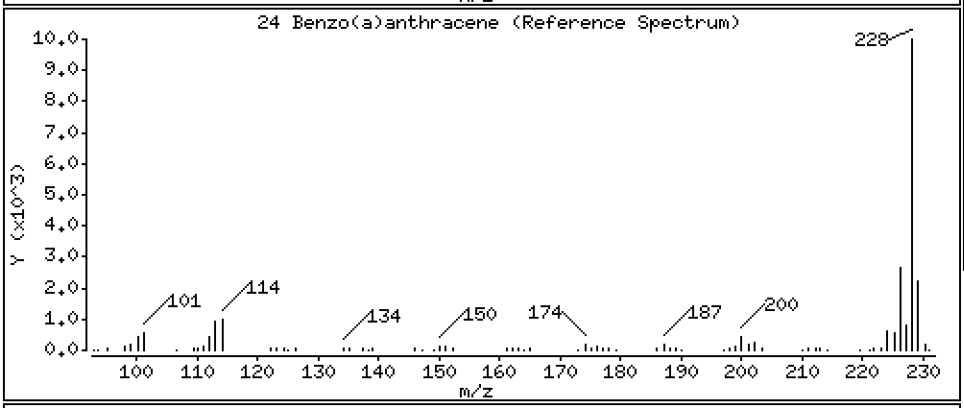
Concentration: 2.982 ug/L

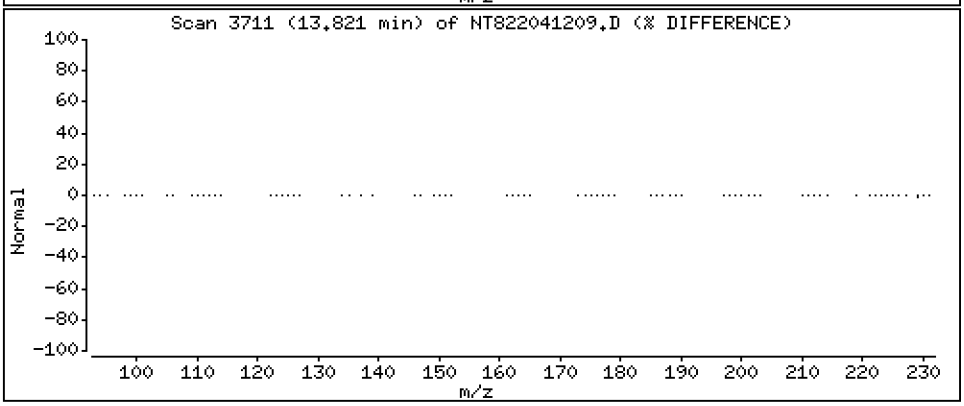












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

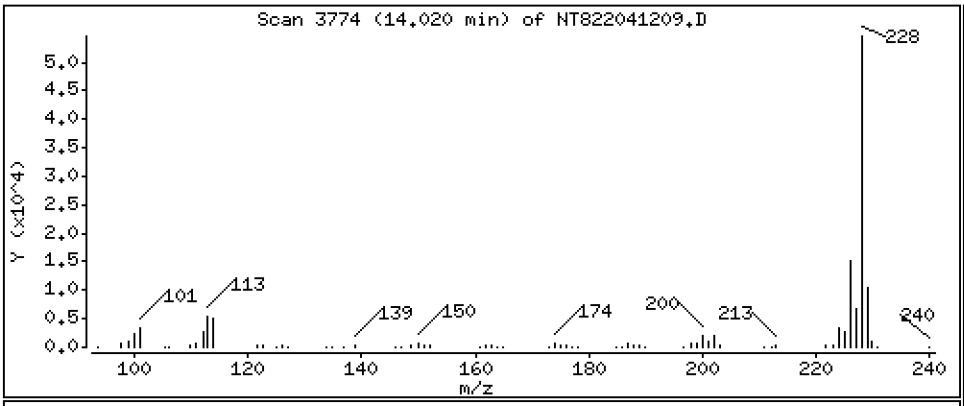
Operator: JZ

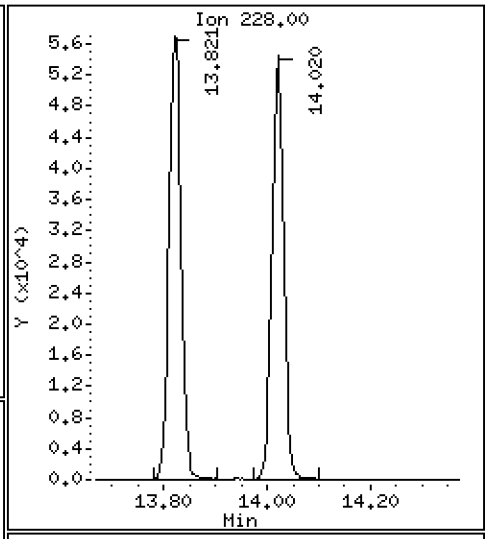
Column phase: Rxi-17sil

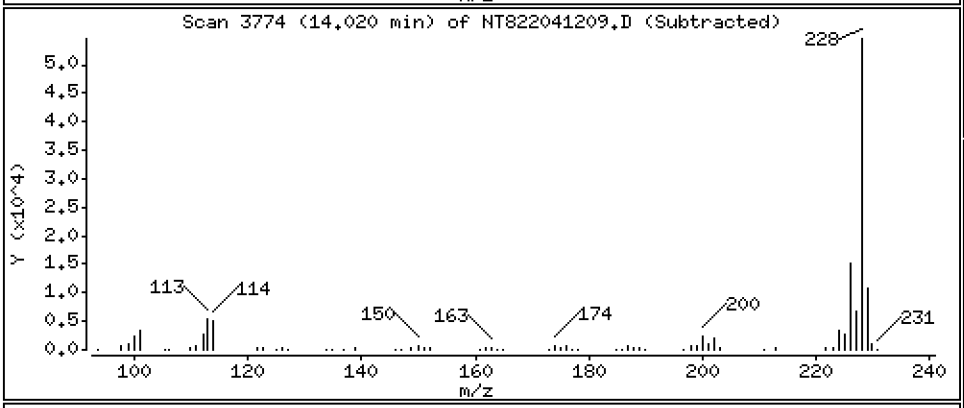
Column diameter: 0.25

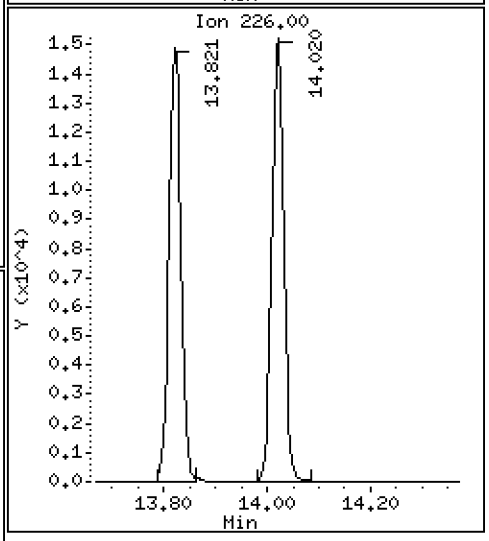
27 Chrysene

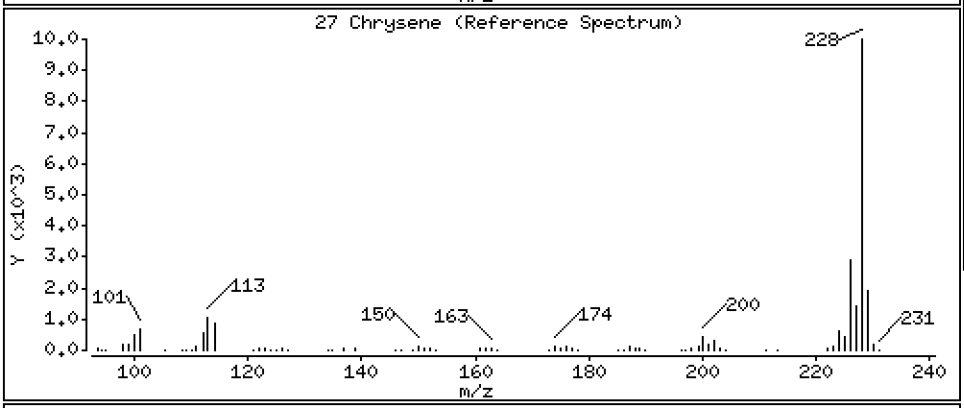
Concentration: 2.917 ug/L

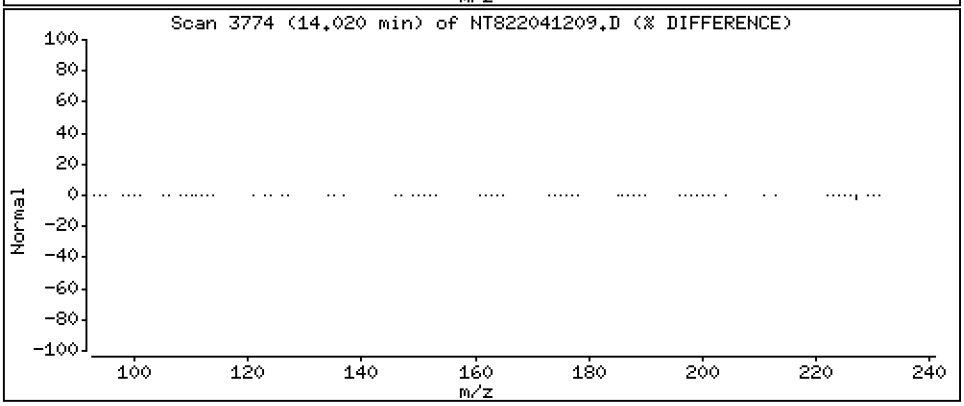












Date : 12-APR-2022 16:16

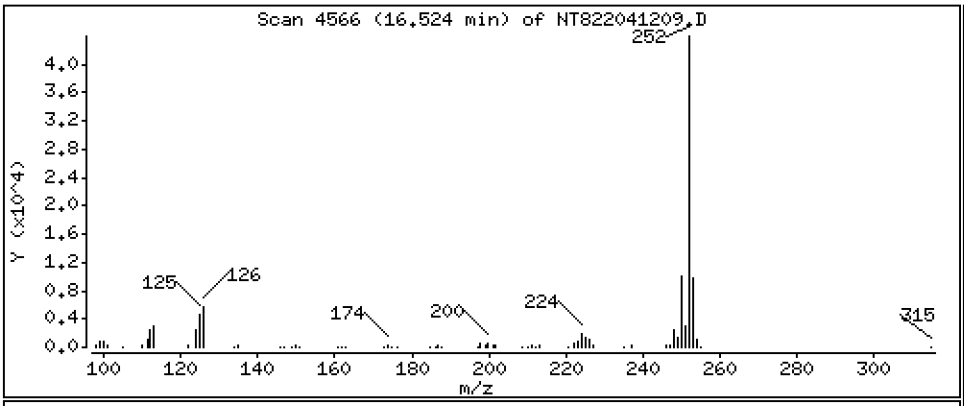
Client ID: Instrument: nt8.i

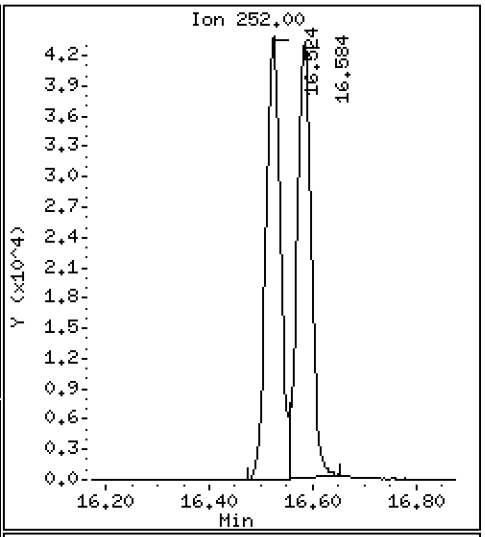
Sample Info: SCV220411,

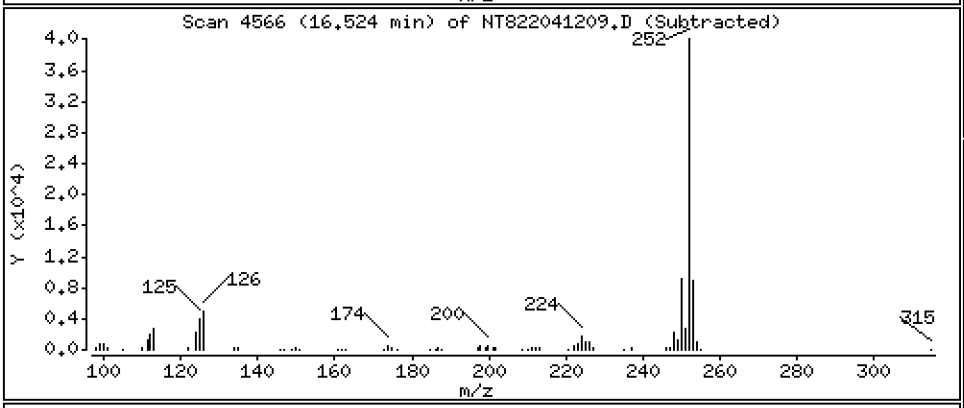
Volume Injected (uL): 1.0 Operator: JZ

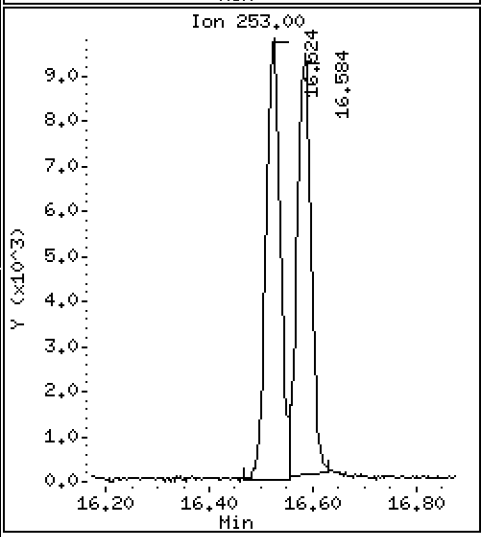
Column phase: Rxi-17sil Column diameter: 0.25

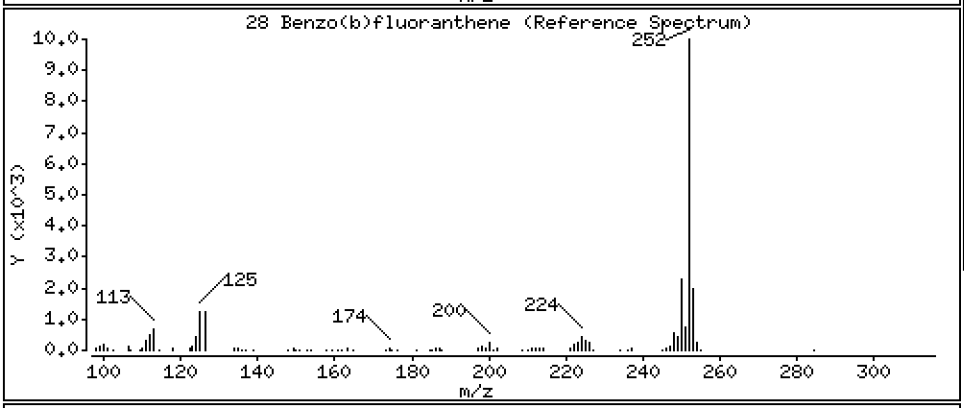
28 Benzo(b)fluoranthene Concentration: 2.888 ug/L

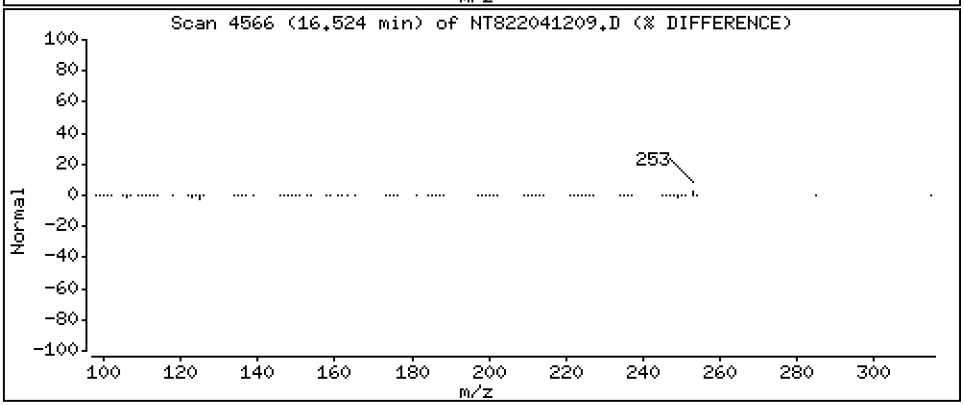












Date : 12-APR-2022 16:16

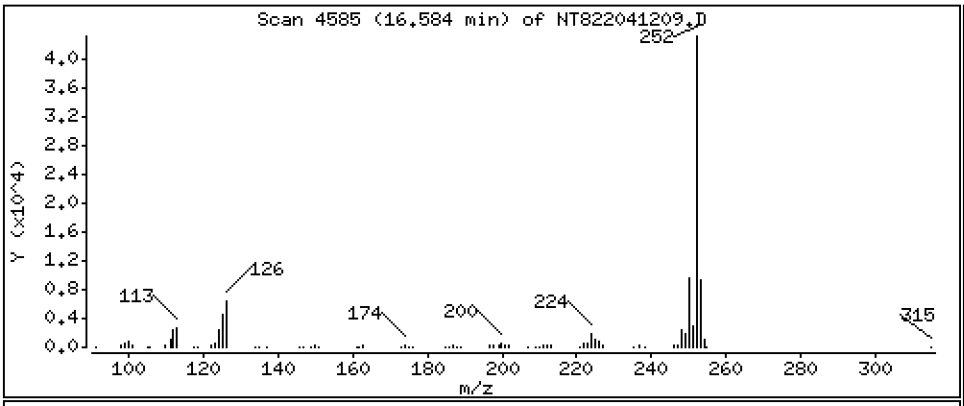
Client ID: Instrument: nt8.i

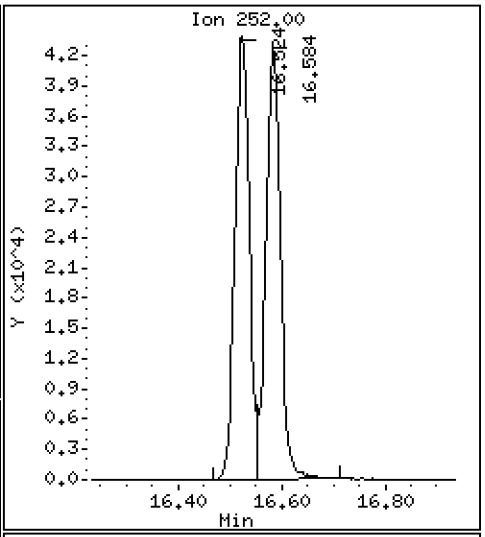
Sample Info: SCV220411,

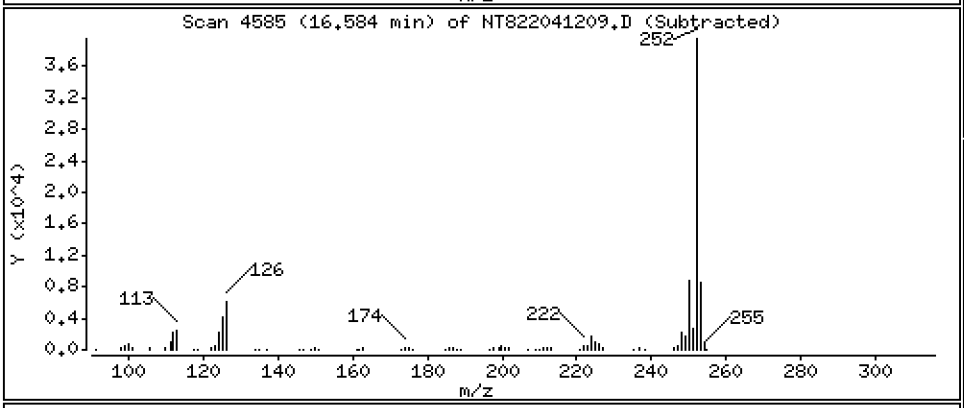
Volume Injected (uL): 1.0 Operator: JZ

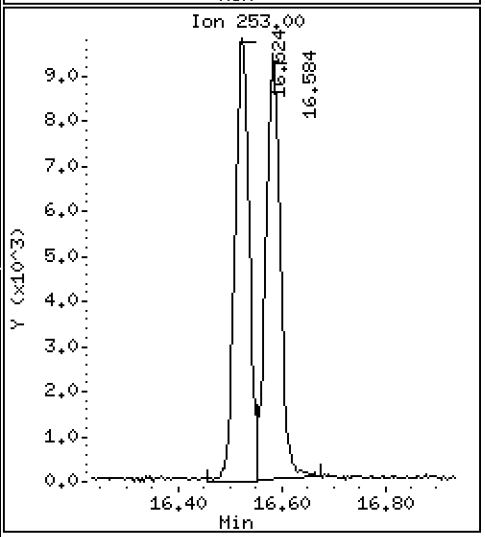
Column phase: Rxi-17sil Column diameter: 0.25

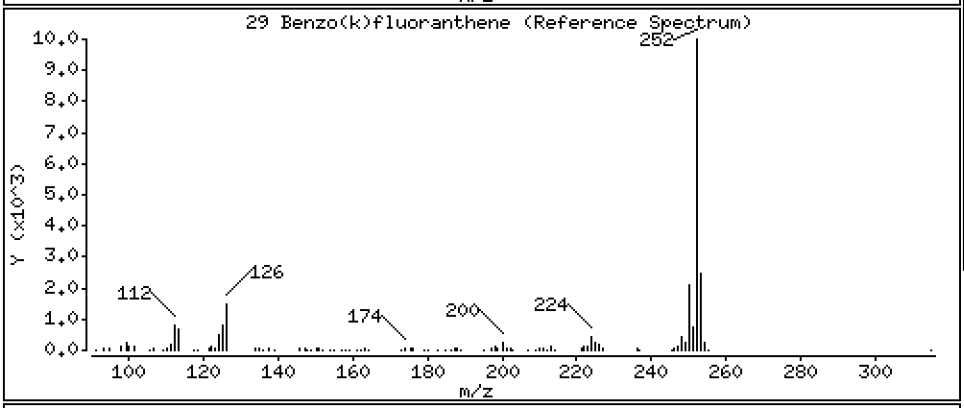
29 Benzo(k)fluoranthene Concentration: 3.083 ug/L

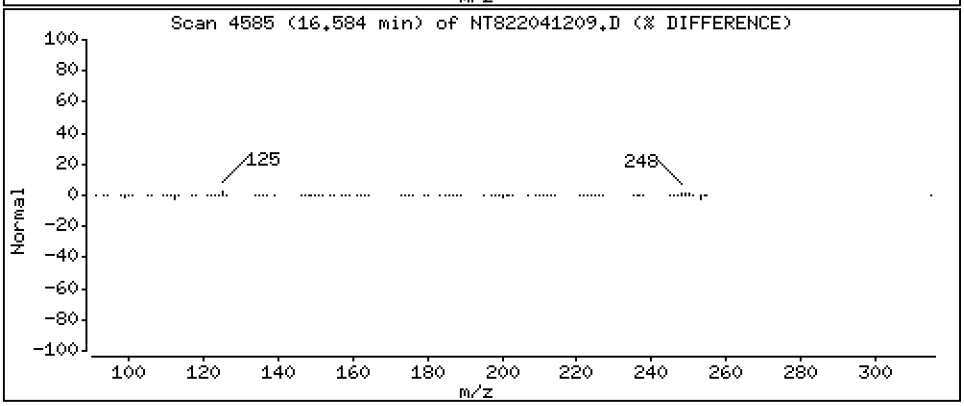












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

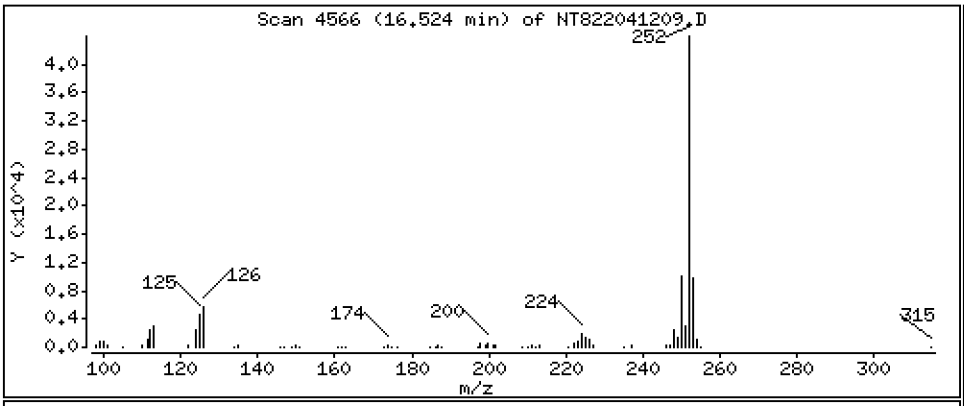
Operator: JZ

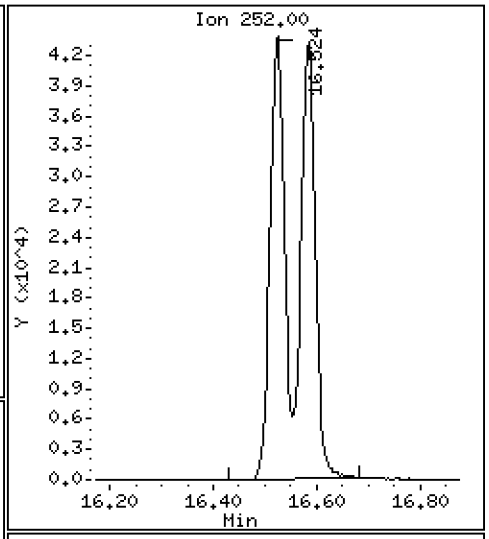
Column phase: Rxi-17sil

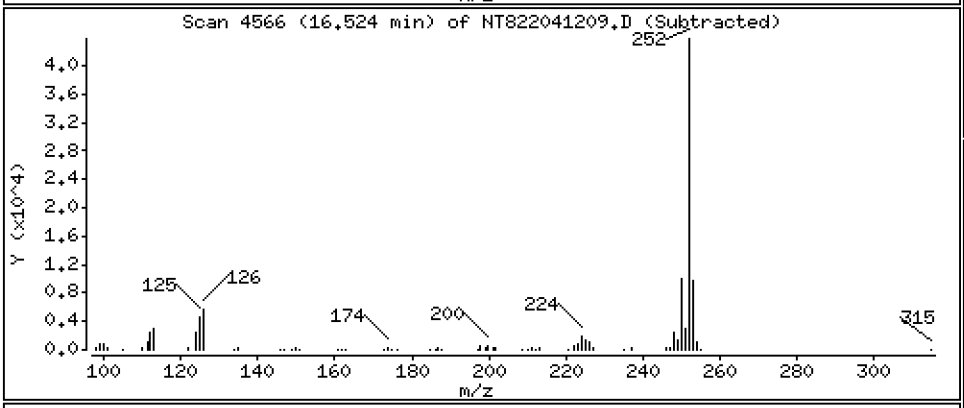
Column diameter: 0.25

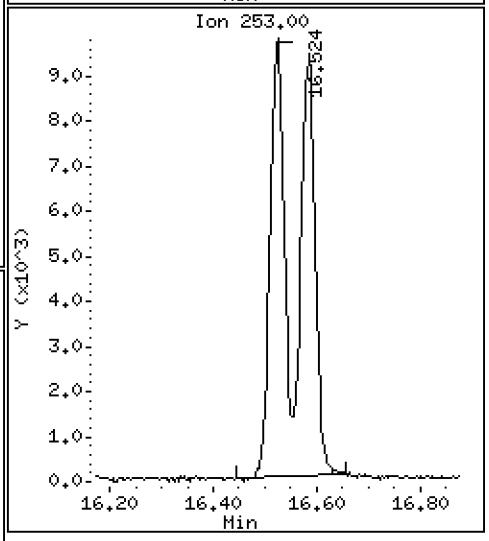
31 Total Benzofluoranthenes

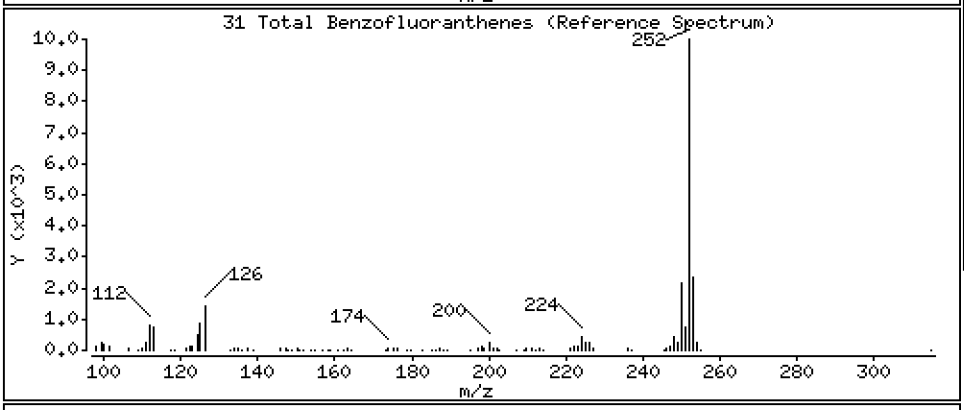
Concentration: 6.100 ug/L

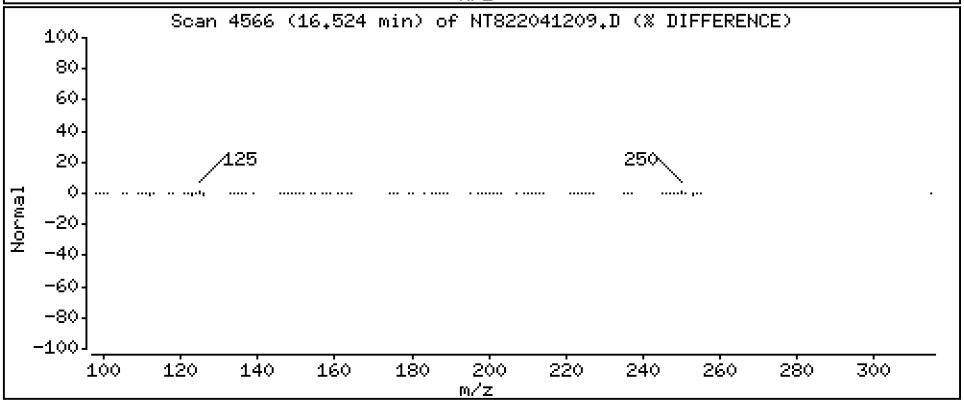












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

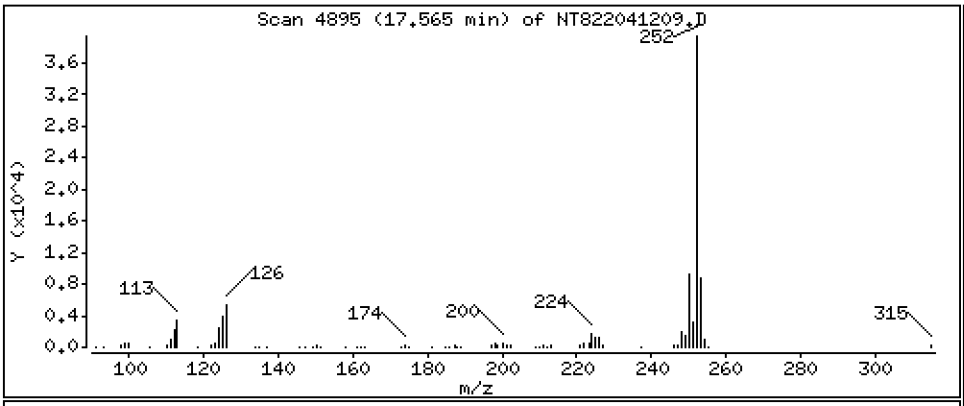
Operator: JZ

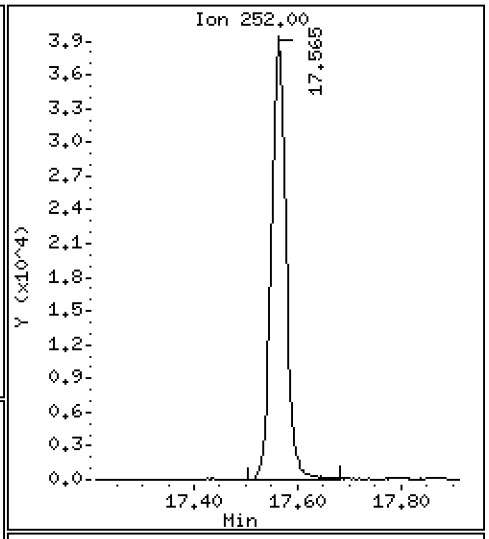
Column phase: Rxi-17sil

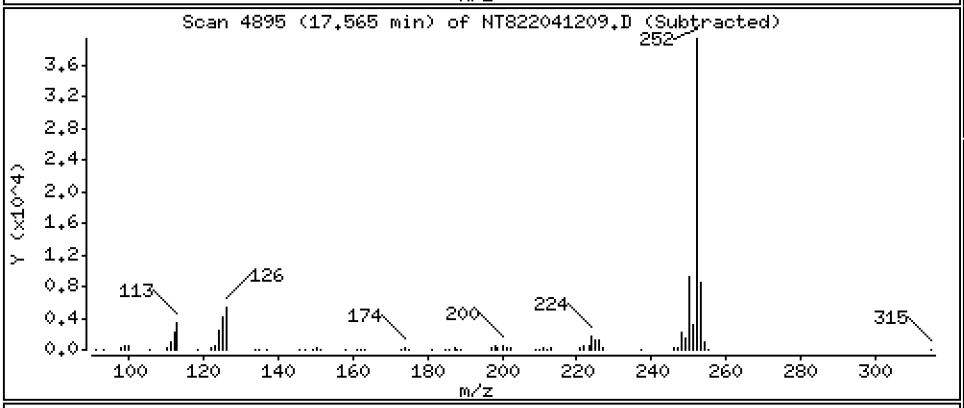
Column diameter: 0.25

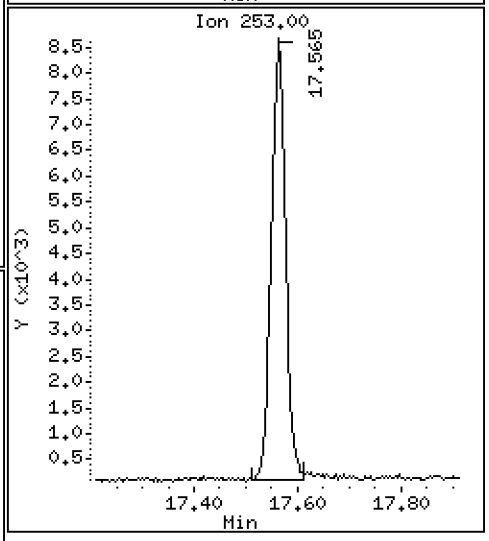
32 Benzo(a)pyrene

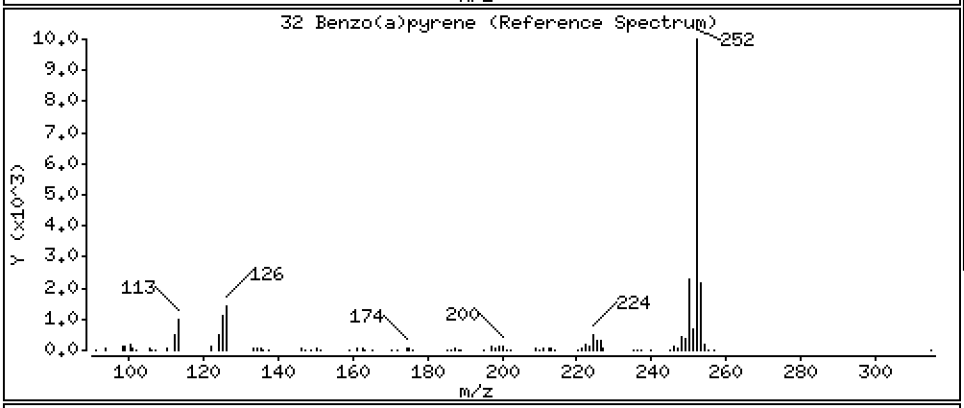
Concentration: 3.163 ug/L

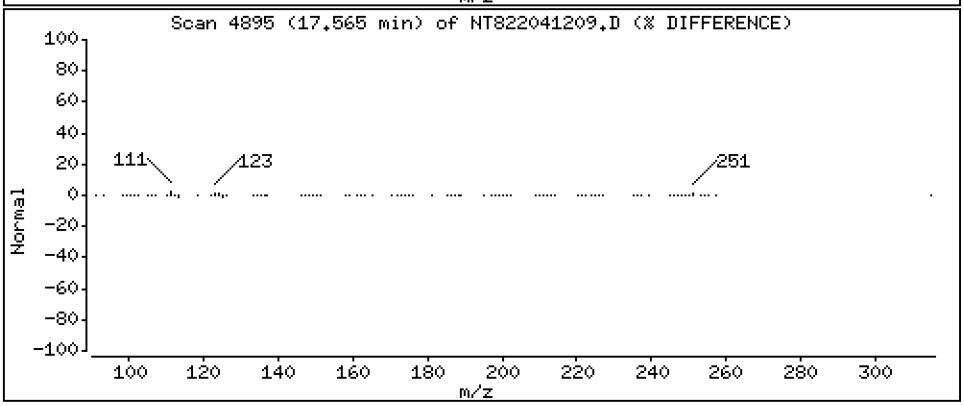












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

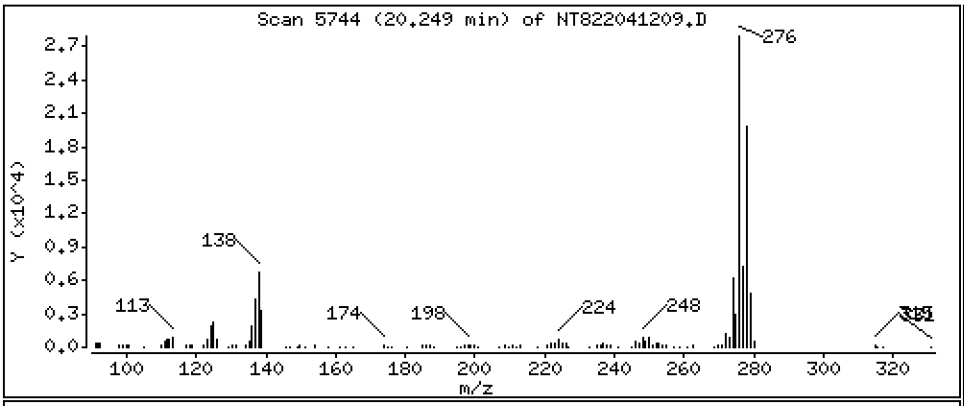
Operator: JZ

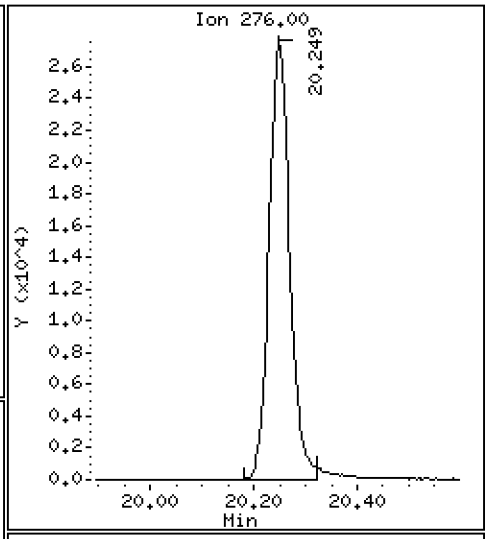
Column phase: Rxi-17sil

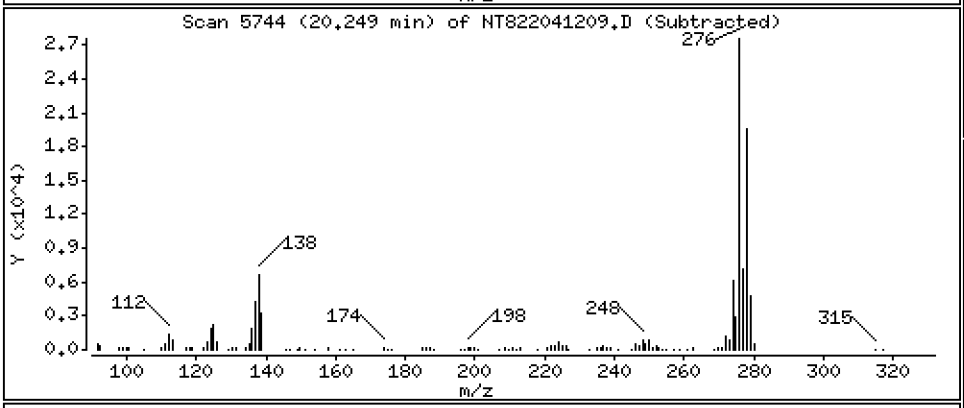
Column diameter: 0.25

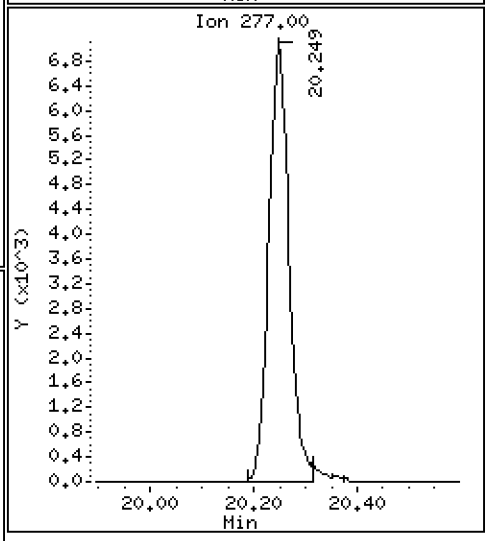
37 Indeno(1,2,3-cd)pyrene

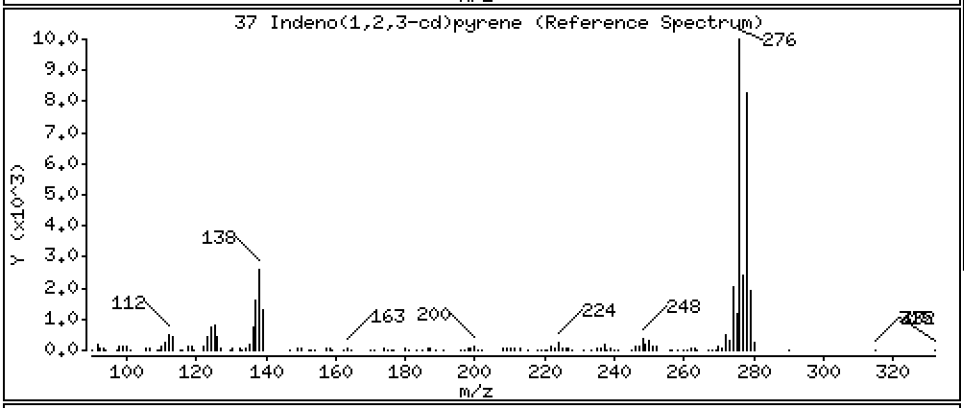
Concentration: 3.174 ug/L

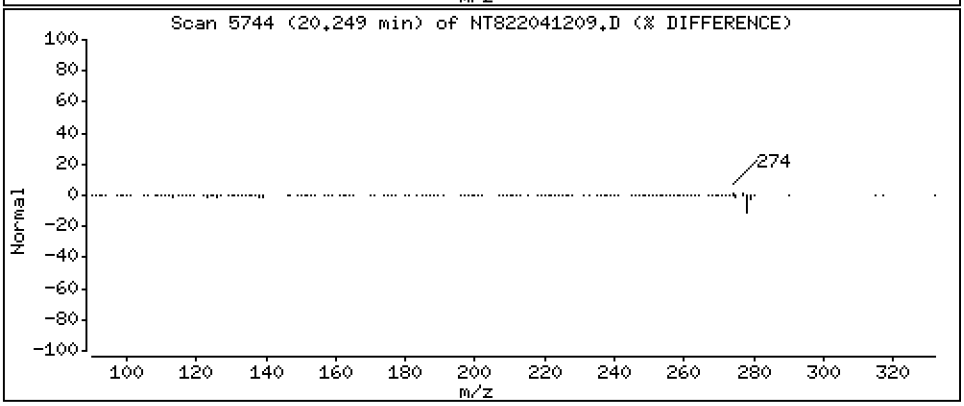












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

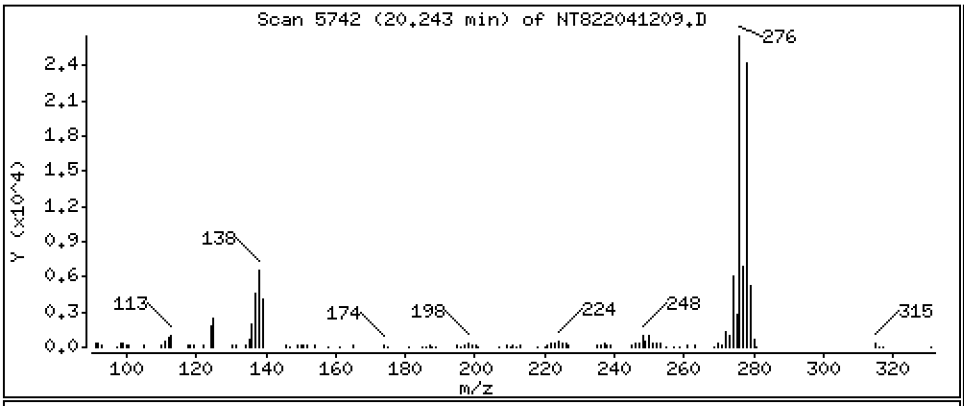
Operator: JZ

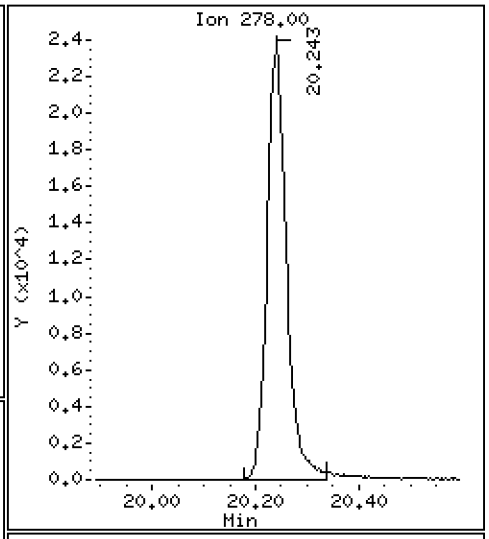
Column phase: Rxi-17sil

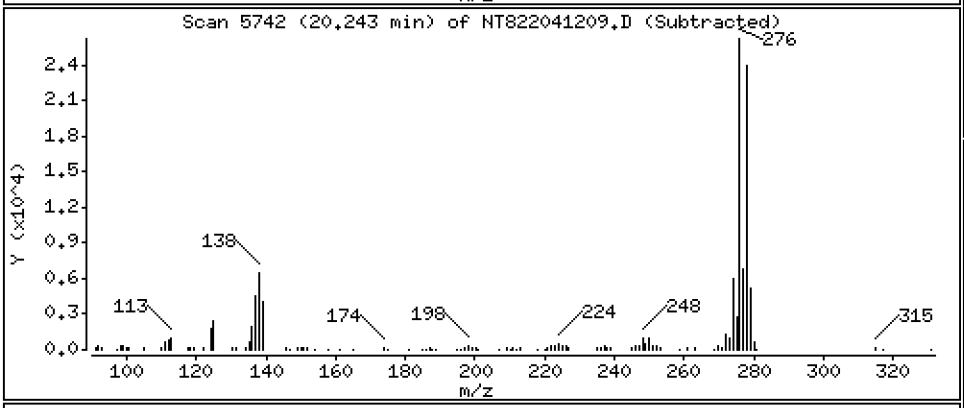
Column diameter: 0.25

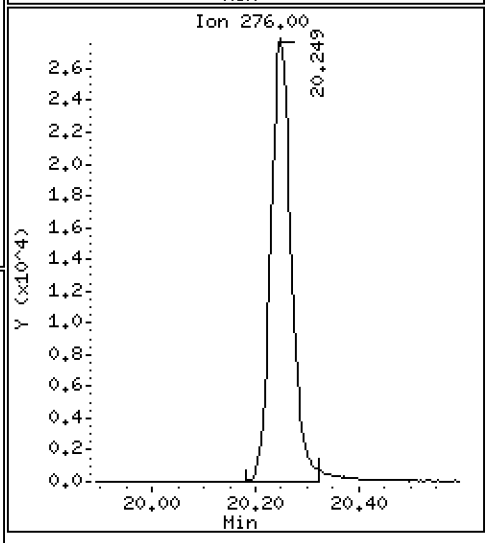
38 Dibenzo(a,h)anthracene

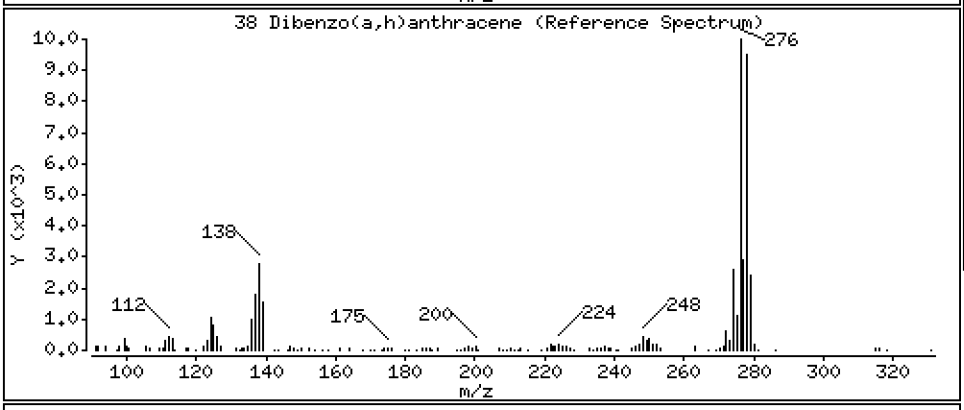
Concentration: 2.986 ug/L

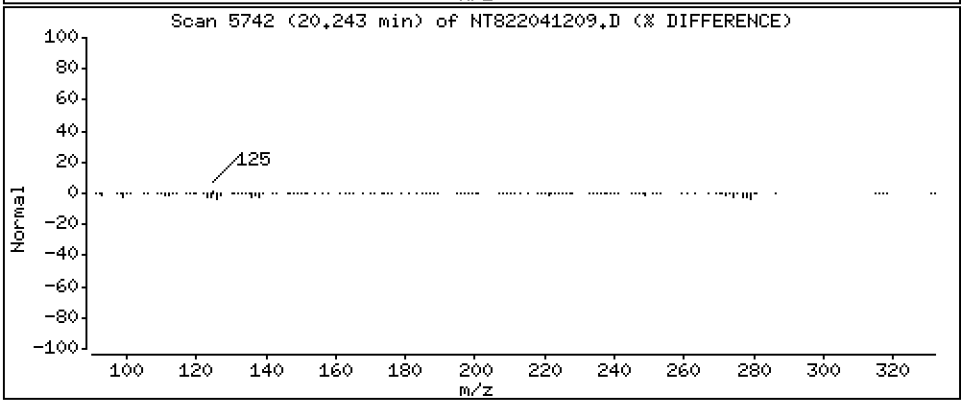












Data File: \\target\share\chem3\nt8.i\20220412.b\NT822041209.D

Date : 12-APR-2022 16:16

Client ID:

Instrument: nt8.i

Sample Info: SCV220411,

Volume Injected (uL): 1.0

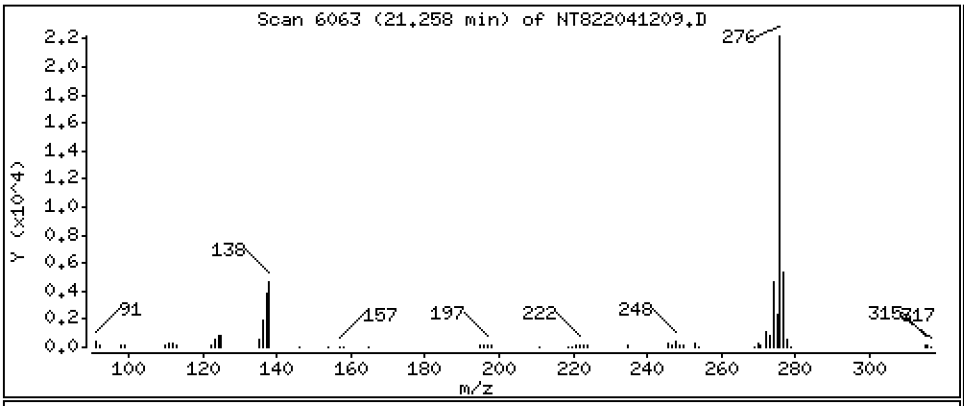
Operator: JZ

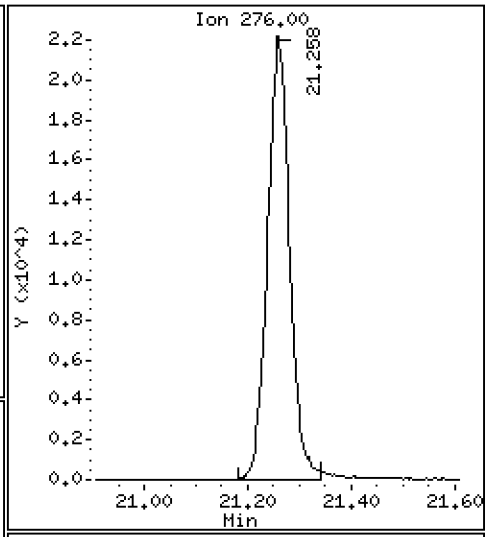
Column phase: Rxi-17sil

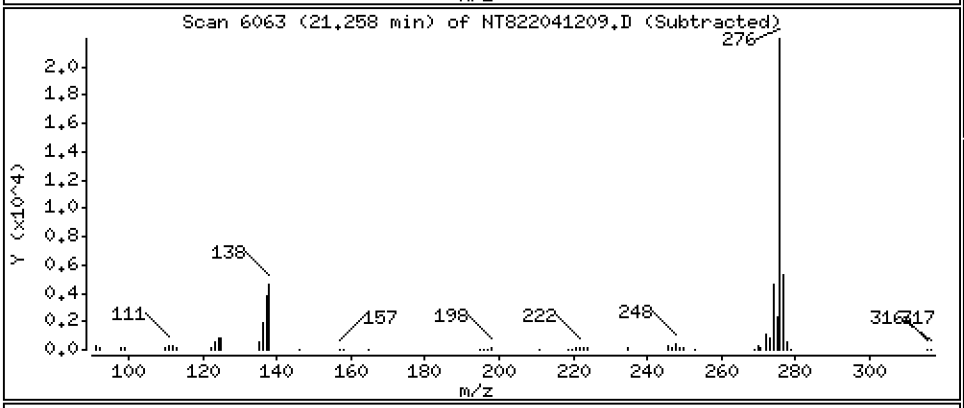
Column diameter: 0.25

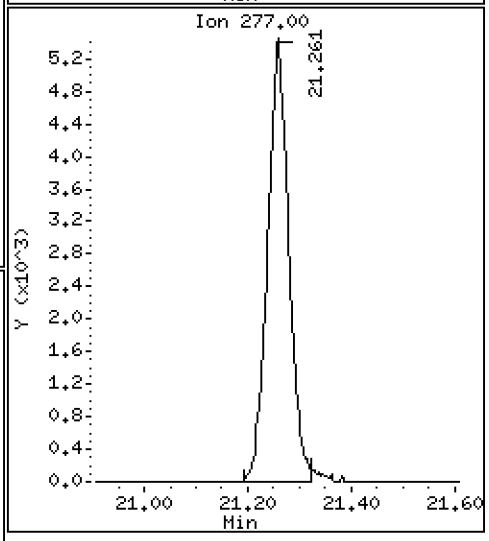
39 Benzo(g,h,i)perylene

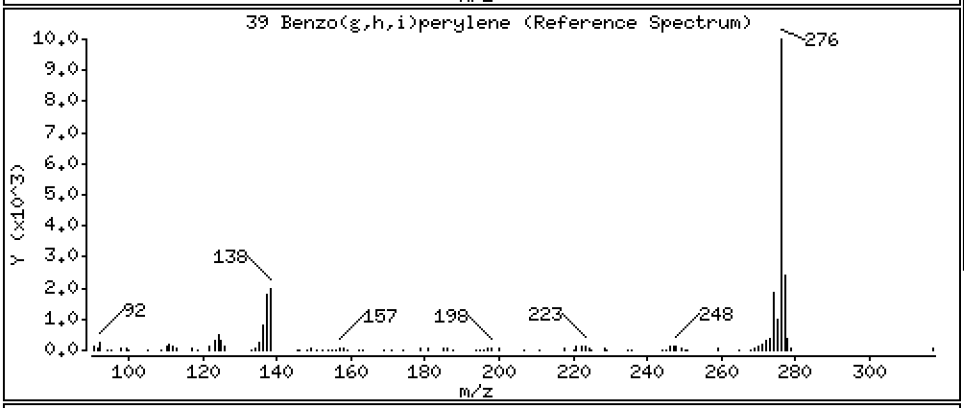
Concentration: 2.921 ug/L

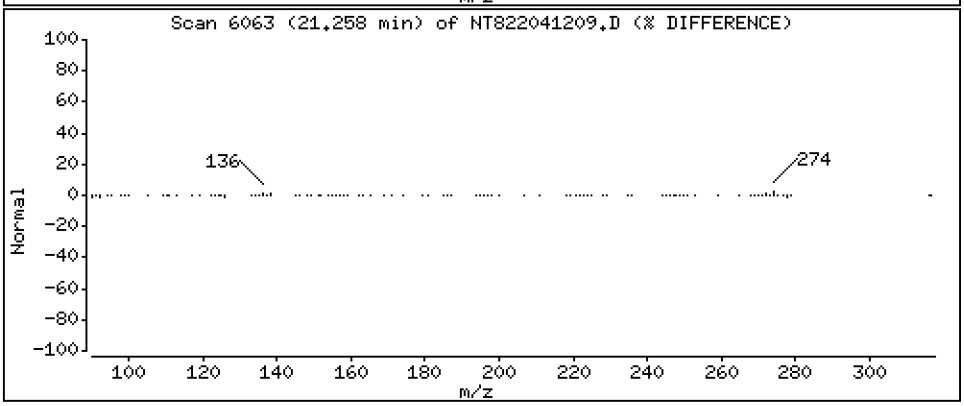












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20220412.b\NT822041209.D
Lab Smp Id: SKD0159-SCV1
Inj Date : 12-APR-2022 16:16
Operator : JZ Inst ID: nt8.i
Smp Info : SCV220411,
Misc Info : 22-
Comment : 1ul Injection
Method : \\target\share\chem3\nt8.i\20220412.b\FSIMPNA220411.m
Meth Date : 25-Apr-2022 12:21 jianqing Quant Type: ISTD
Cal Date : 12-APR-2022 15:49 Cal File: NT822041208.D
Als bottle: 9 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnascv.sub
Target Version: 4.14
Processing Host: JIANQING-202105

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	500.000	Volume of final extract (uL)
Vo	500.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
* 1 Naphthalene-d8	136	4.799	4.799	(1.000)	54442	2.00000	
2 Naphthalene	128	4.828	4.828	(1.006)	77605	2.81321	2.813
$ 3 2-Methylnaphthalene-d10	152	Compound Not Detected.					
4 2-Methylnaphthalene	141	5.574	5.574	(1.161)	45640	2.90766	2.908
5 1-methylnaphthalene	141	5.770	5.770	(1.202)	46068	3.00121	3.001
9 Acenaphthylene	152	6.965	6.965	(0.984)	84792	2.96909	2.969
* 10 Acenaphthene-d10	164	7.076	7.076	(1.000)	33053	2.00000	
11 Acenaphthene	153	7.126	7.126	(1.007)	50658	2.67341	2.673
12 Dibenzofuran	168	7.275	7.275	(1.028)	84865	3.19228	3.192
14 Fluorene	166	7.749	7.749	(1.095)	60386	2.82353	2.824
* 15 Phenanthrene-d10	188	9.103	9.103	(1.000)	57165	2.00000	
16 Phenanthrene	178	9.138	9.137	(1.004)	87974	2.90100	2.901
17 Anthracene	178	9.179	9.179	(1.008)	86805	2.98854	2.989
22 Fluoranthene	202	10.877	10.877	(1.195)	98897	2.98056	2.981
$ 21 Fluoranthene-d10	212	Compound Not Detected.					
23 Pyrene	202	11.379	11.379	(0.816)	101285	3.03352	3.034(M)
24 Benzo(a)anthracene	228	13.820	13.820	(0.991)	93097	2.98161	2.982
* 25 Chrysene-d12	240	13.947	13.947	(1.000)	49400	2.00000	
27 Chrysene	228	14.020	14.020	(1.005)	87014	2.91655	2.917
28 Benzo(b)fluoranthene	252	16.524	16.524	(0.929)	86821	2.88824	2.888
29 Benzo(k)fluoranthene	252	16.584	16.584	(0.932)	85979	3.08332	3.083
31 Total Benzofluoranthenes	252	16.524	16.524	(0.929)	169131	6.10024	6.100(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	32 Benzo(a)pyrene	252	17.564	17.561	(0.987)	78493	3.16331	3.163
*	33 Perylene-d12	264	17.792	17.795	(1.000)	42338	2.00000	
	37 Indeno(1,2,3-cd)pyrene	276	20.249	20.245	(1.138)	77240	3.17379	3.174
$	36 Dibenzo(a,h)anthracene-d14	292	Compound Not Detected.					
	38 Dibenzo(a,h)anthracene	278	20.242	20.242	(1.138)	62700	2.98649	2.986
	39 Benzo(g,h,i)perylene	276	21.257	21.257	(1.195)	66126	2.92092	2.921
	35 Perylene	252	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt8.i
Lab File ID: NT822041209.D
Lab Smp Id: SKD0159-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: \\target\share\chem3\nt8.i\20220412.b\FSIMPNA220411.m
Misc Info: 22-

Calibration Date: 12-APR-2022
Calibration Time: 14:55
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	56136	28068	112272	54442	-3.02
10 Acenaphthene-d10	32604	16302	65208	33053	1.38
15 Phenanthrene-d10	58288	29144	116576	57165	-1.93
25 Chrysene-d12	52801	26401	105602	49400	-6.44
33 Perylene-d12	42745	21373	85490	42338	-0.95

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	4.80	4.30	5.30	4.80	0.00
10 Acenaphthene-d10	7.08	6.58	7.58	7.08	0.00
15 Phenanthrene-d10	9.10	8.60	9.60	9.10	0.00
25 Chrysene-d12	13.95	13.45	14.45	13.95	0.00
33 Perylene-d12	17.80	17.30	18.30	17.79	-0.02

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

REVIEW SUMMARY FOR FILE - NT822041209.D

Lab ID: SKD0159-SCV1
nt8.i, 20220412.b\FSIMPNA220411.m,   12-APR-2022 16:16

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

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

No RRT check performed

On Column LOD for nt8.i, 20220412.b\FSIMPNA220411.m, pnascv.sub = 0.0500

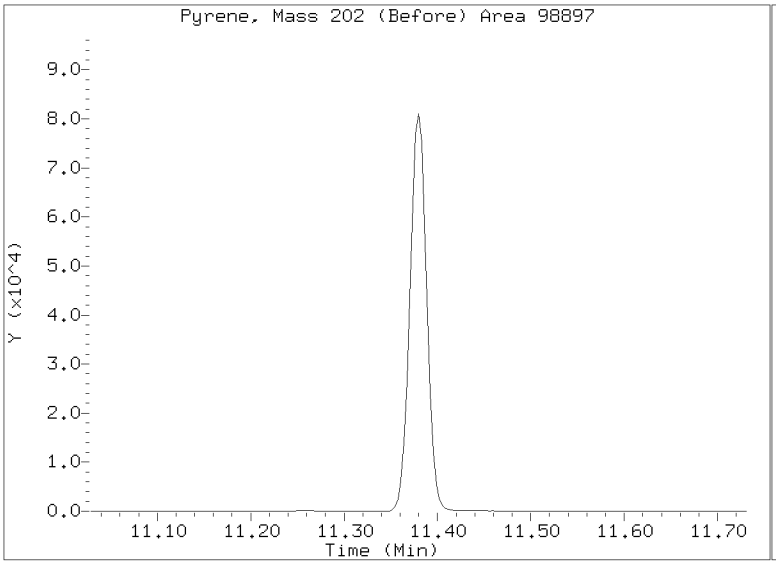
Exception: Benzo(b)fluoranthene 0.0300
Exception: Benzo(k)fluoranthene 0.0300
Exception: Total Benzofluoranthenes 0.0300
Exception: Fluoranthene-d10 (Surr) 0.0000

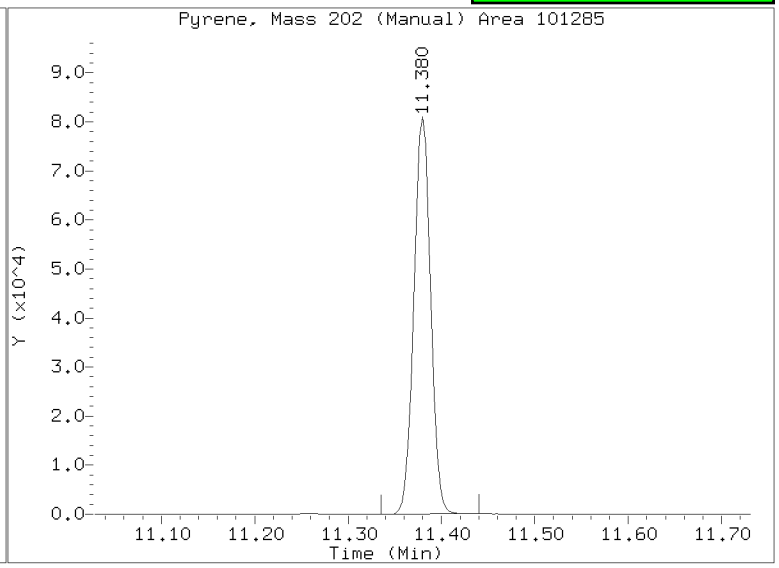
* Only compounds listed in the work order have been verified by the analyst *

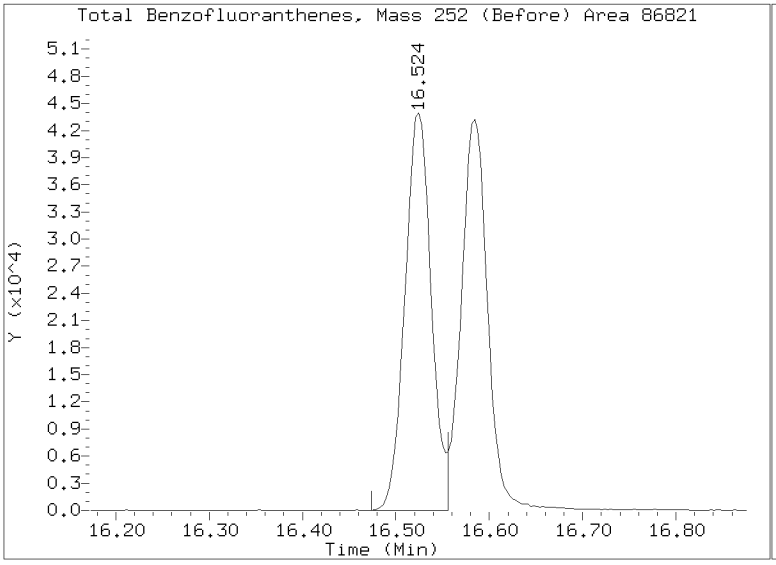
Quant Ion Manual Peak Adjustment Report

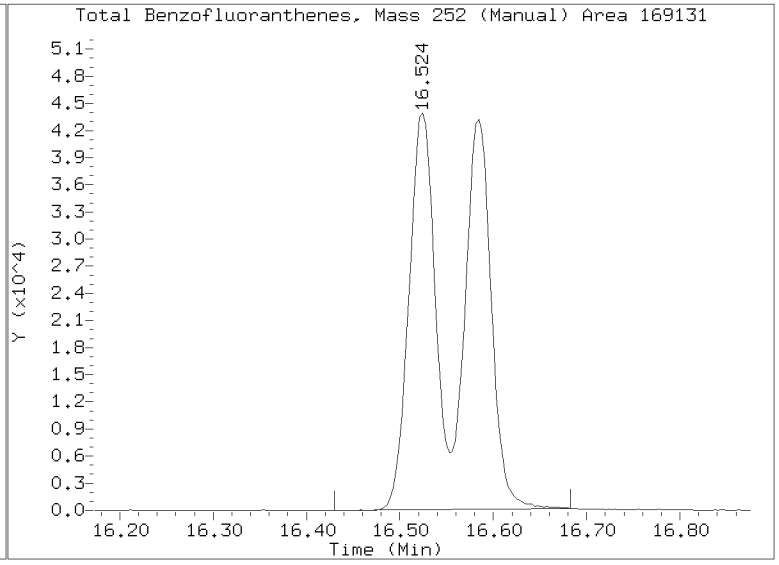
Datafile: //target/share/chem3/nt8.i/20220412.b/NT822041209.D
Injection Date: 12-APR-2022 16:16
Lab ID:SKD0159-SCV1 Client ID:
Report Date: 04/25/2022 12:21

REVIEWED
By Mark Weidner
11/30/2022 @ 12:23 PM









Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT8	Calibration:	FD00034
Lab File ID:	N822121514.D	Calibration Date:	04/12/2022
Sequence:	SKL0227	Injection Date:	12/15/22
Lab Sample ID:	SKL0227-CCV1	Injection Time:	20:42
Sequence Name:	Calibration Check		

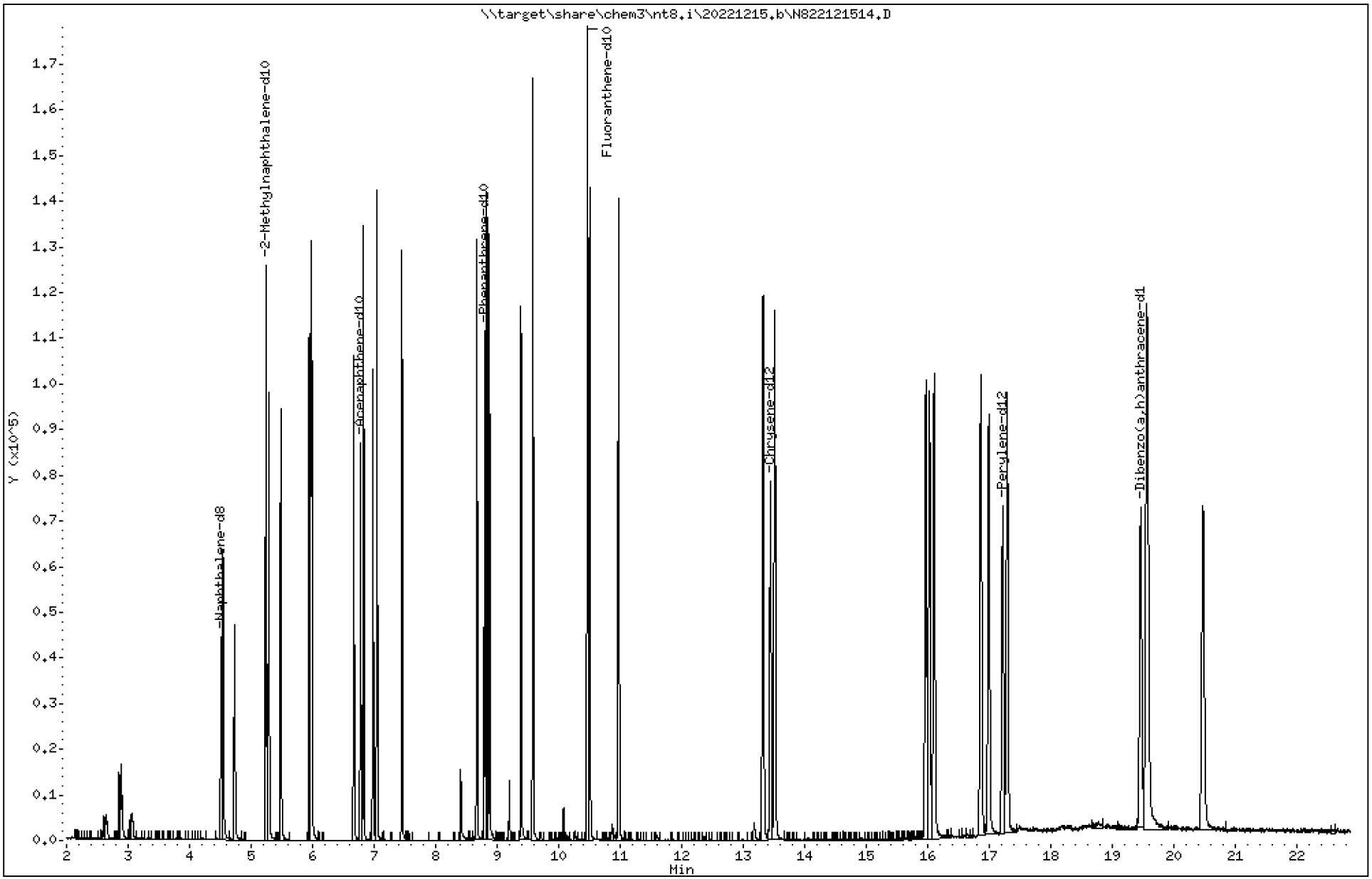
		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Naphthalene	A	2.5000	2.67	1.0134050	1.0837920		6.9	+/-50
2-Methylnaphthalene	A	2.5000	2.81	0.5766300	0.6483746		12.4	+/-50
Acenaphthylene	A	2.5000	2.73	1.7280280	1.8898130		9.4	+/-50
Acenaphthene	A	2.5000	2.80	1.1465730	1.2845840		12.0	+/-50
Fluorene	A	2.5000	2.82	1.2940860	1.4600470		12.8	+/-50
Phenanthrene	A	2.5000	2.51	1.0609790	1.0650950		0.4	+/-50
Anthracene	A	2.5000	2.67	1.0162140	1.0835060		6.6	+/-50
Fluoranthene	A	2.5000	2.70	1.1608760	1.2533330		8.0	+/-50
Pyrene	A	2.5000	2.41	1.3517670	1.3045590		-3.5	+/-50
Benzo(a)anthracene	A	2.5000	2.62	1.2641170	1.3262290		4.9	+/-50
Chrysene	A	2.5000	2.60	1.2078770	1.2563890		4.0	+/-50
Benzo(b)fluoranthene	A	2.5000	2.16	1.4200070	1.2283860		-13.5	+/-50
Benzo(k)fluoranthene	A	2.5000	2.22	1.3172650	1.1720860		-11.0	+/-50
Benzo(a)pyrene	A	2.5000	2.41	1.1721640	1.1297950		-3.6	+/-50
Indeno(1,2,3-cd)pyrene	A	2.5000	2.87	1.1496440	1.3190140		14.7	+/-50
Dibenzo(a,h)anthracene	A	2.5000	2.88	0.9917600	1.1426510		15.2	+/-50
Benzo(g,h,i)perylene	A	2.5000	2.79	1.0694310	1.1937530		11.6	+/-50
2-Methylnaphthalene-d10	A	2.5000	2.93	0.7543317	0.8837277		17.2	+/-50
Dibenzo[a,h]anthracene-d14	A	2.5000	3.00	0.8591804	1.0314680		20.1	+/-50
Fluoranthene-d10	A	2.5000	2.88	1.3225110	1.5245100		15.3	+/-50

* Values outside of QC limits

Data File: \\target\share\chem3\nt8.i\20221215.b\N822121514.D
Date : 15-DEC-2022 20:42
Client ID:
Sample Info: CCV221215

Instrument: nt8.i
Operator: JZ
Column diameter: 0.25

Column phase: Rxi-17sil



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Date : 15-DEC-2022 20:42

Client ID:

Instrument: nt8.i

Sample Info: CCV221215

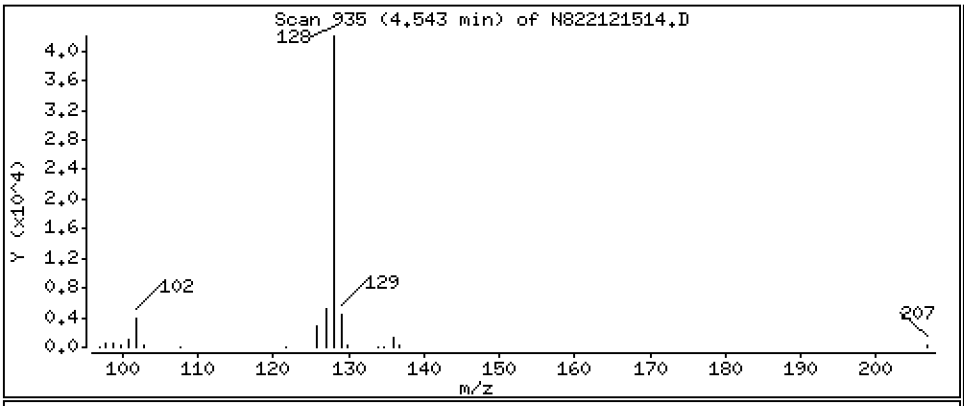
Operator: JZ

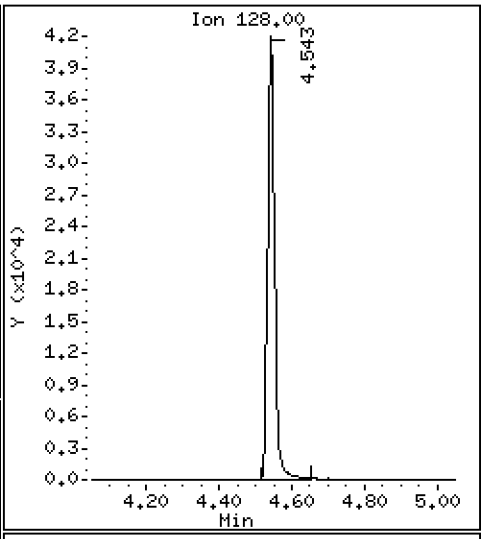
Column phase: Rxi-17sil

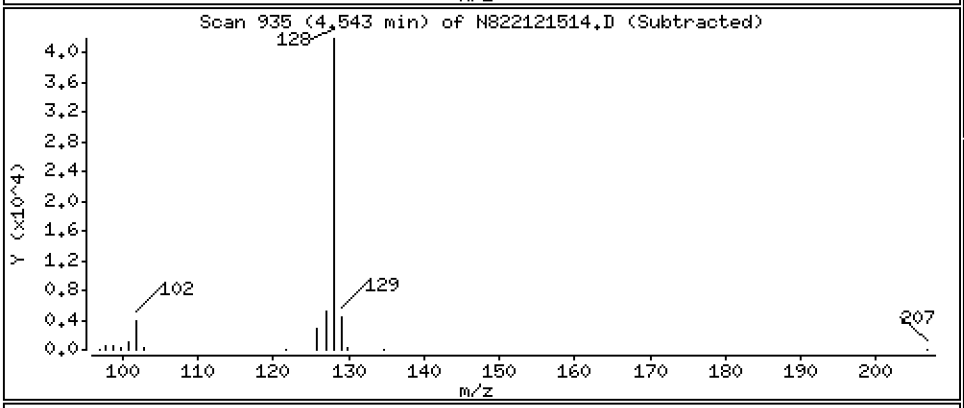
Column diameter: 0.25

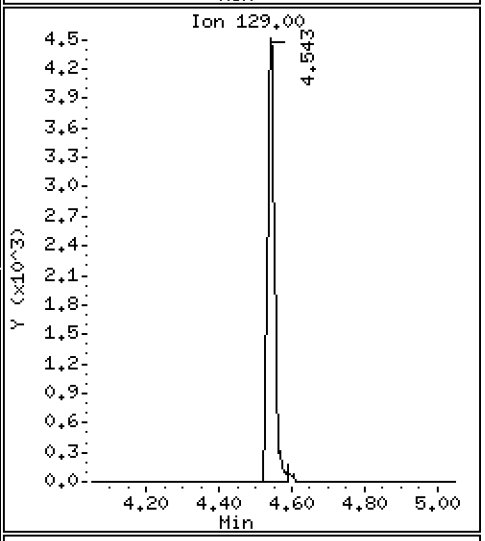
2 Naphthalene

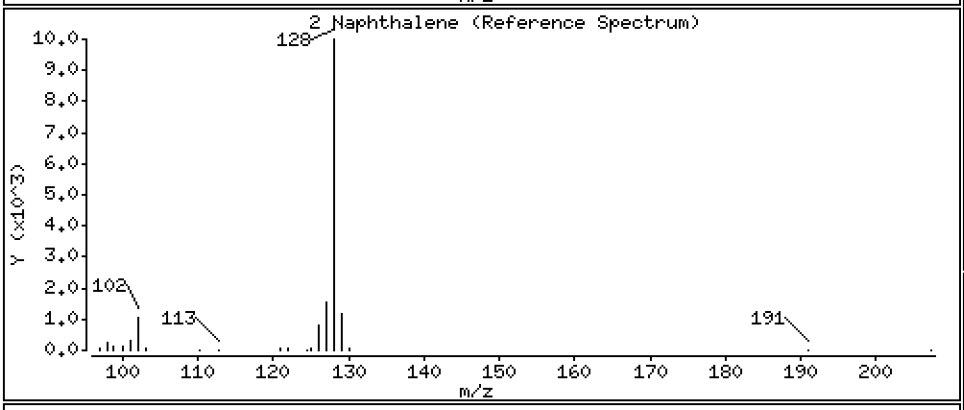
Concentration: 2.674 ug/mL

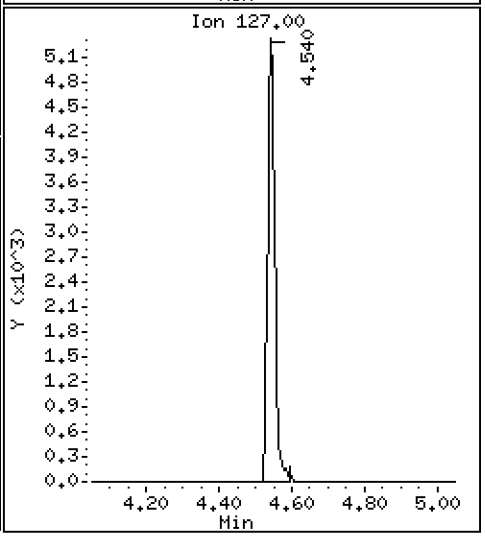


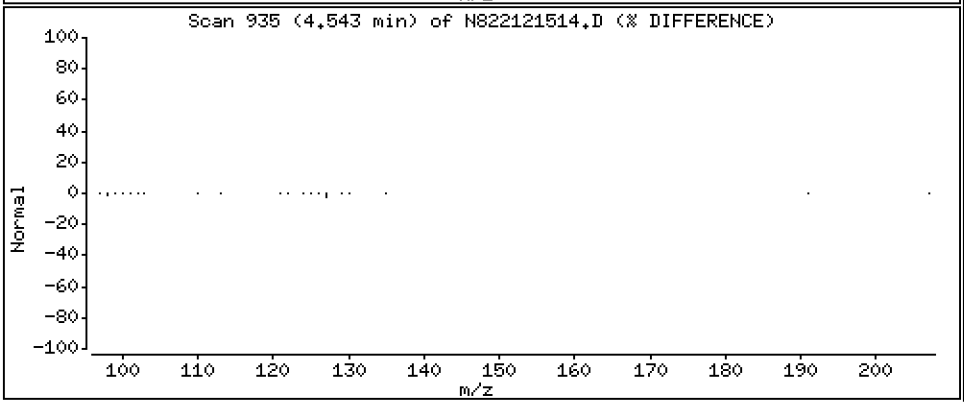












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Date : 15-DEC-2022 20:42

Client ID:

Instrument: nt8.i

Sample Info: CCV221215

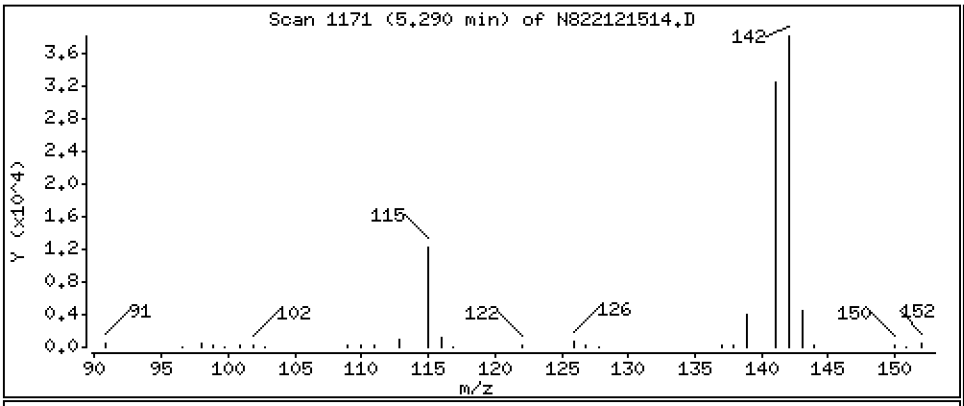
Operator: JZ

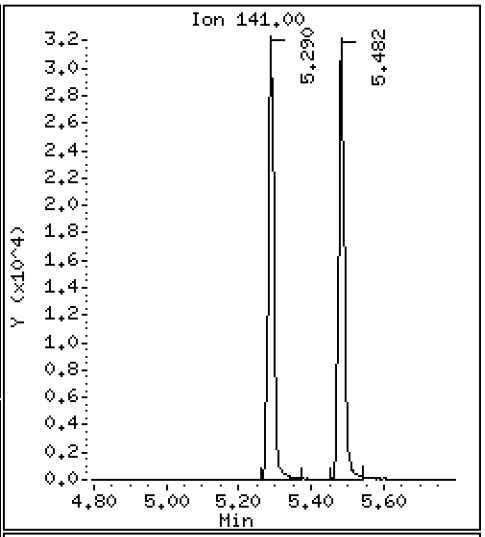
Column phase: Rxi-17sil

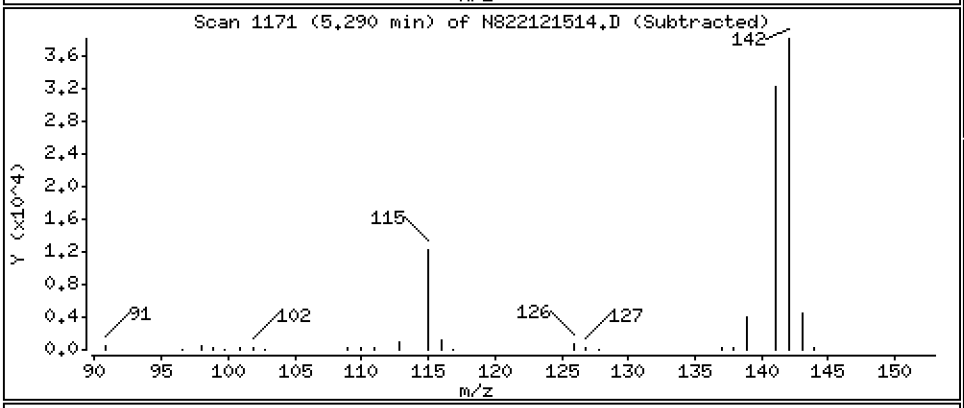
Column diameter: 0.25

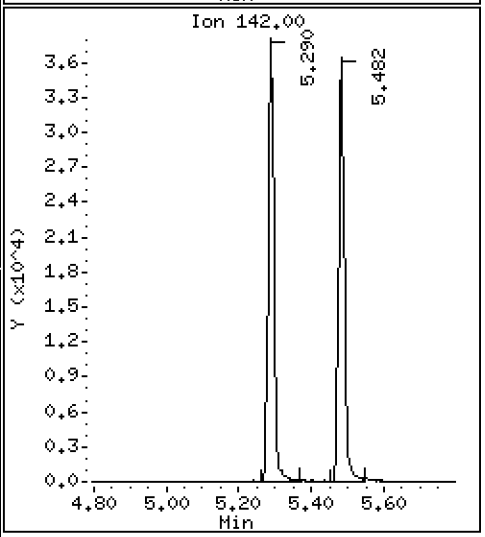
4 2-Methylnaphthalene

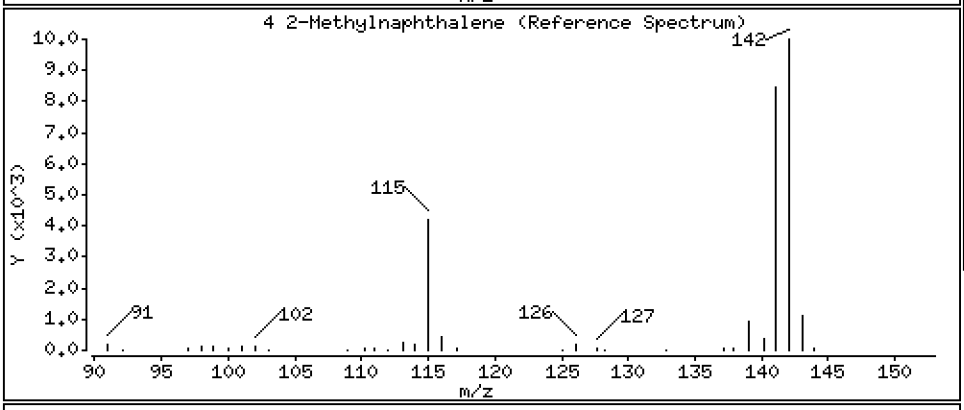
Concentration: 2.811 ug/mL

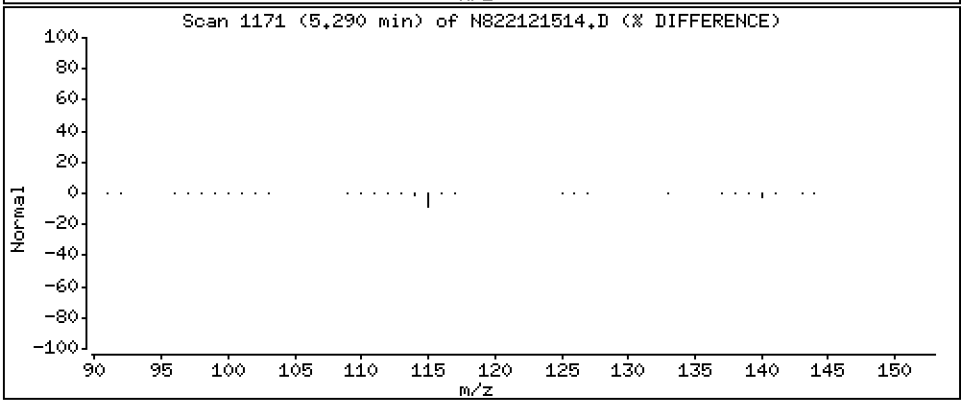












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Date : 15-DEC-2022 20:42

Client ID:

Instrument: nt8.i

Sample Info: CCV221215

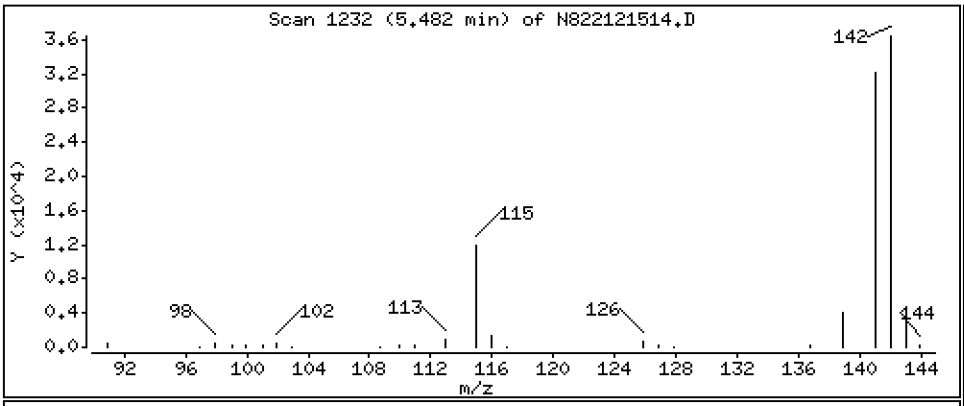
Operator: JZ

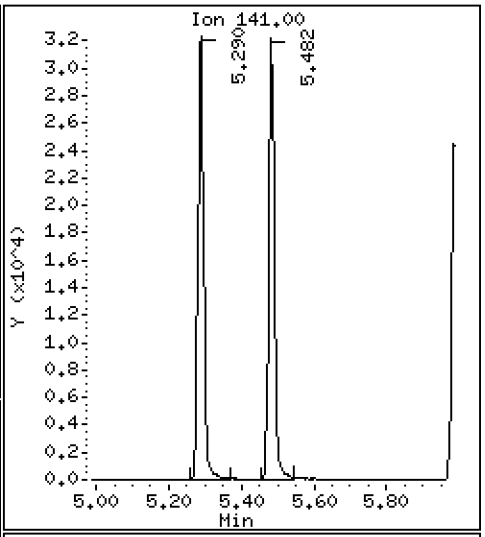
Column phase: Rxi-17sil

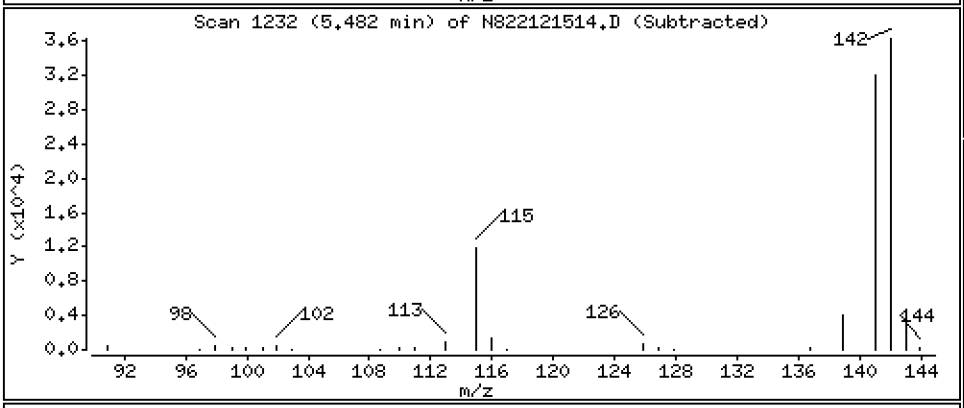
Column diameter: 0.25

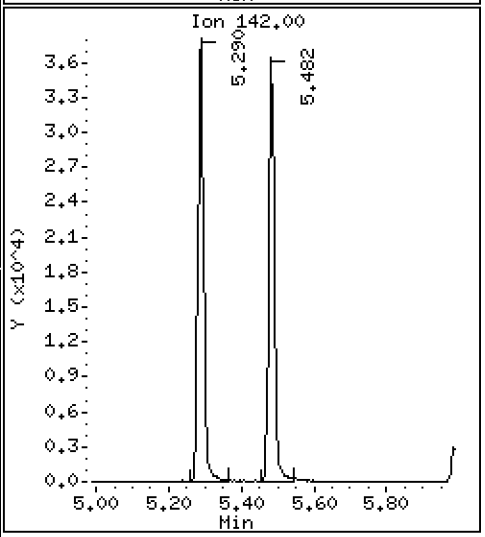
5 1-methylnaphthalene

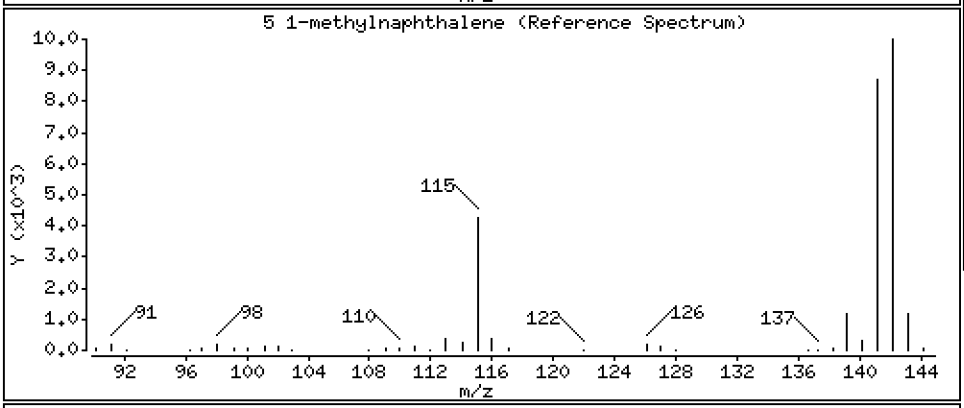
Concentration: 2.838 ug/mL

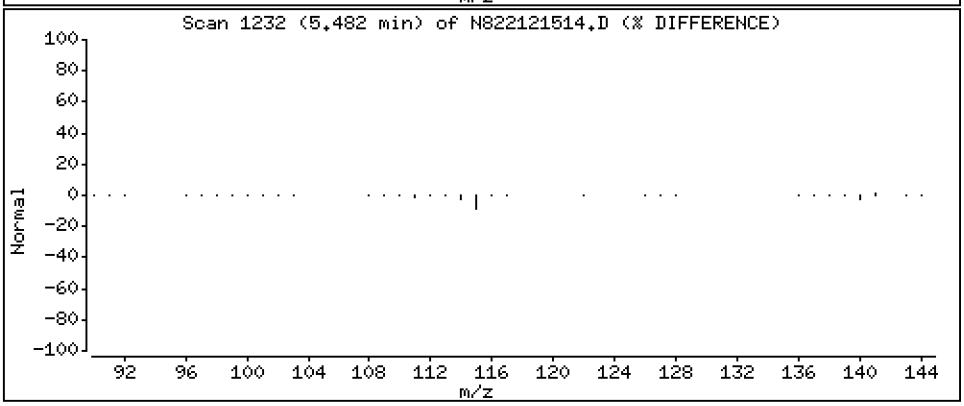












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Date : 15-DEC-2022 20:42

Client ID:

Instrument: nt8.i

Sample Info: CCV221215

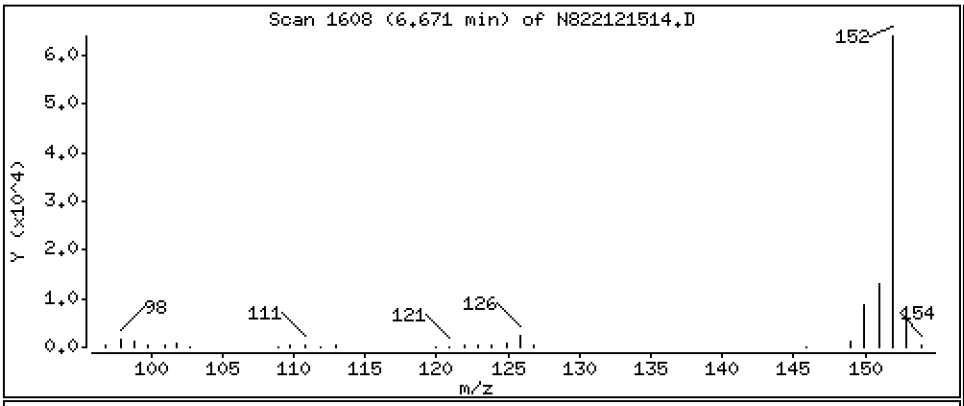
Operator: JZ

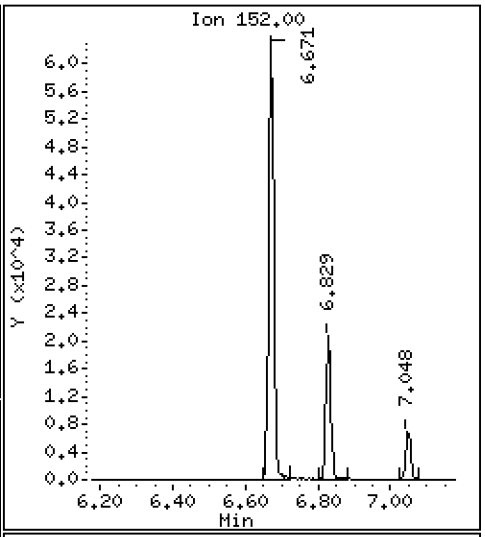
Column phase: Rxi-17sil

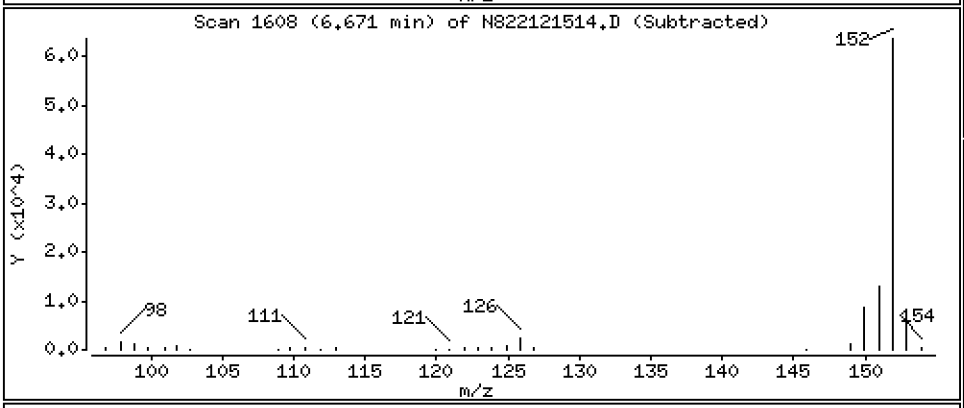
Column diameter: 0.25

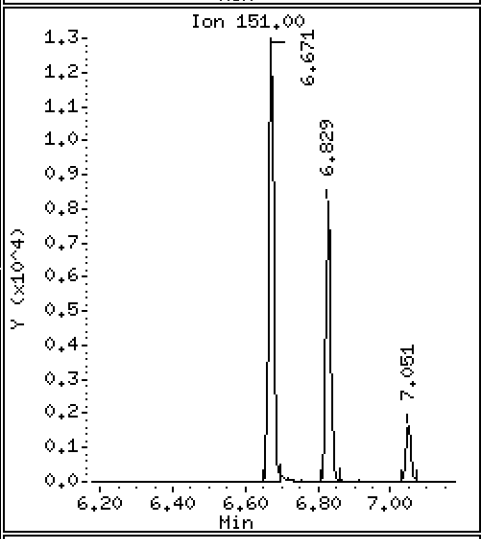
9 Acenaphthylene

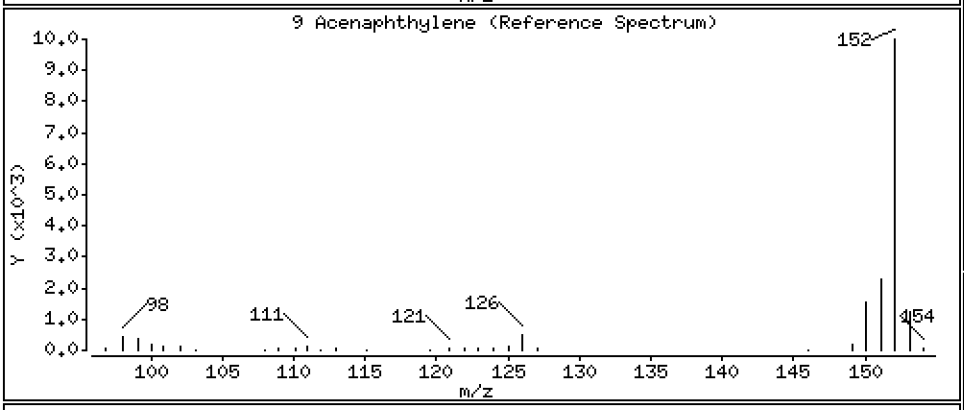
Concentration: 2.734 ug/mL

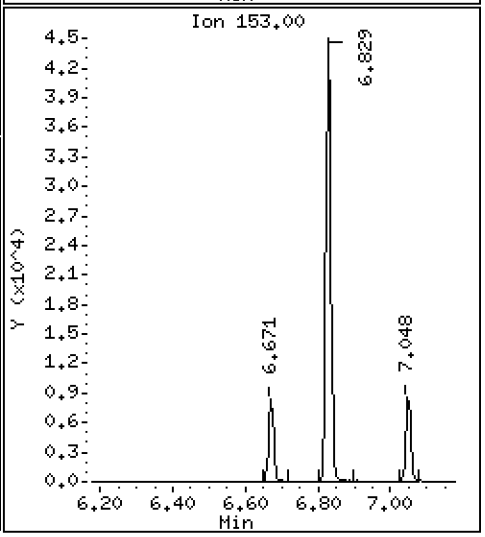


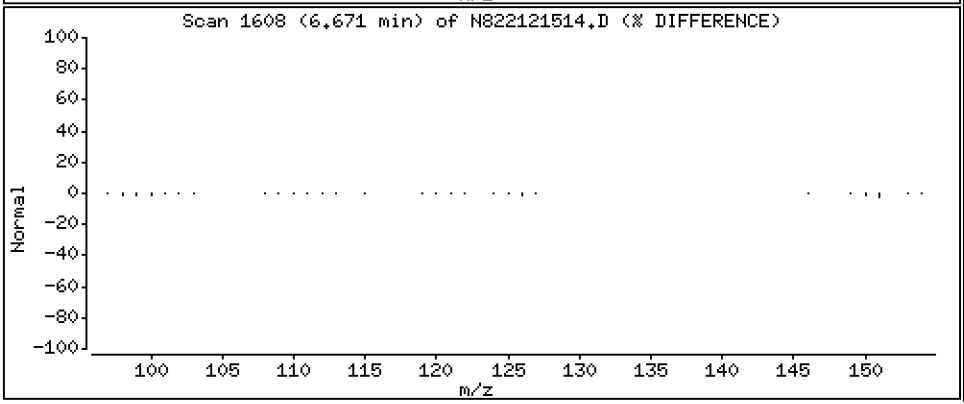












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Date : 15-DEC-2022 20:42

Client ID:

Instrument: nt8.i

Sample Info: CCV221215

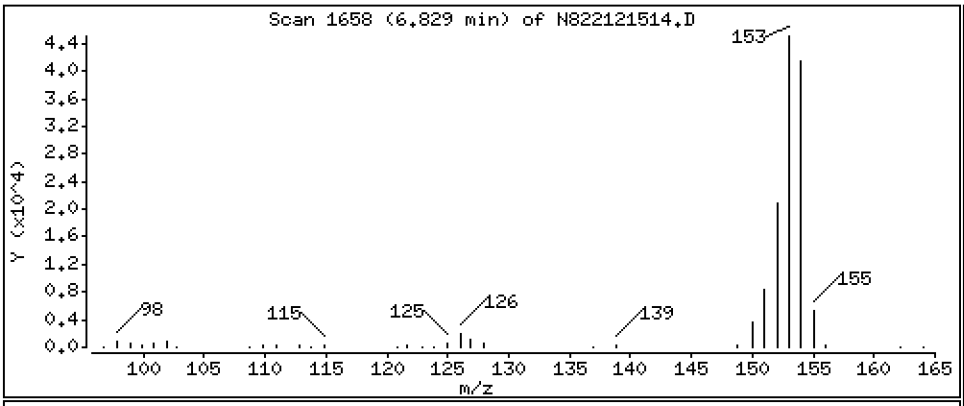
Operator: JZ

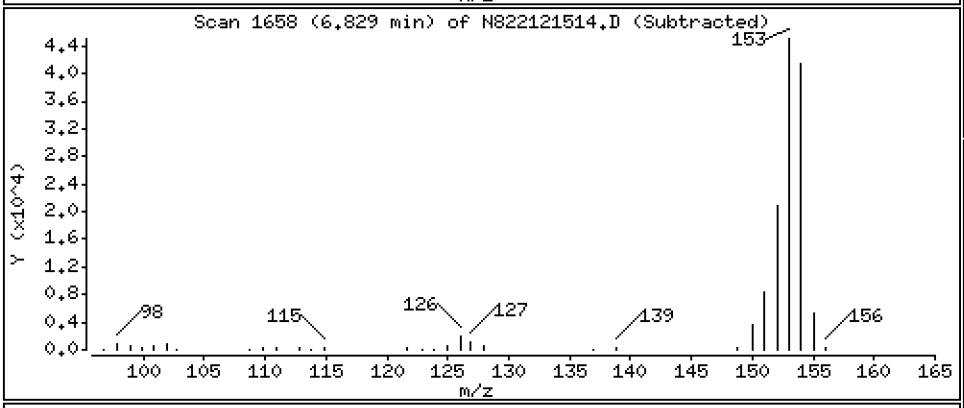
Column phase: Rxi-17sil

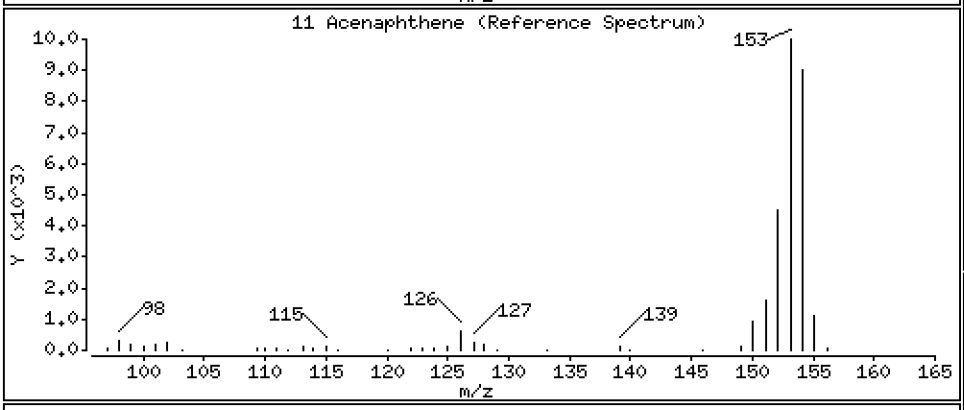
Column diameter: 0.25

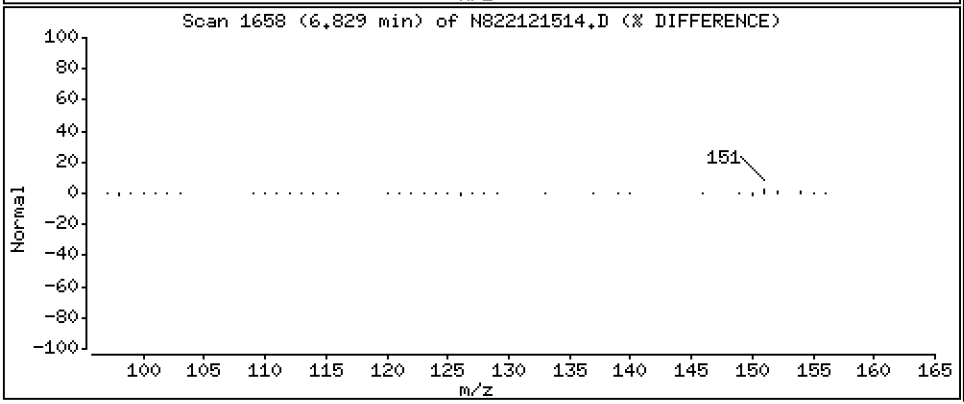
11 Acenaphthene

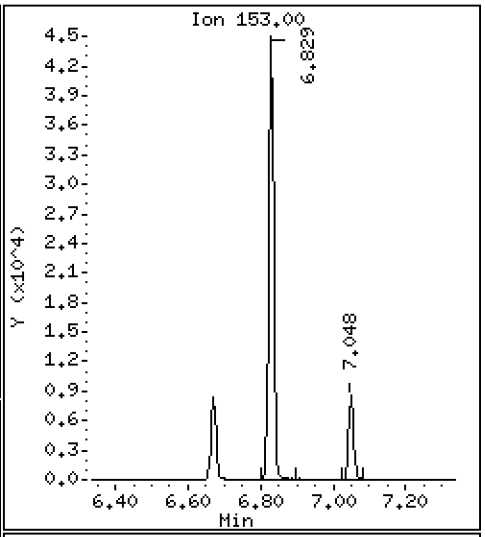
Concentration: 2.801 ug/mL

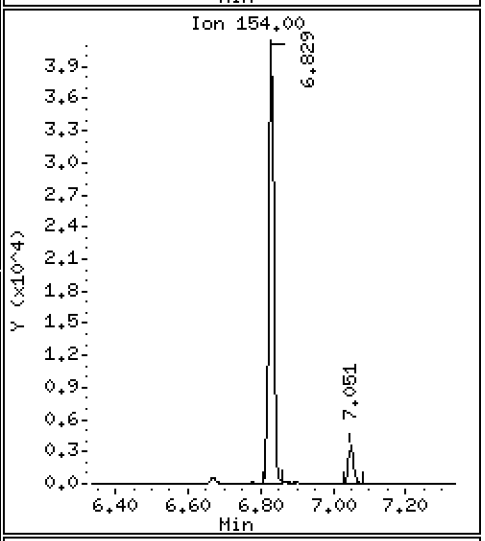


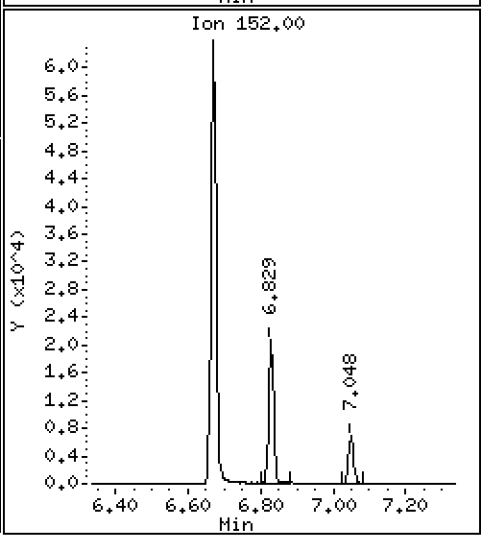












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Date : 15-DEC-2022 20:42

Client ID:

Instrument: nt8.i

Sample Info: CCV221215

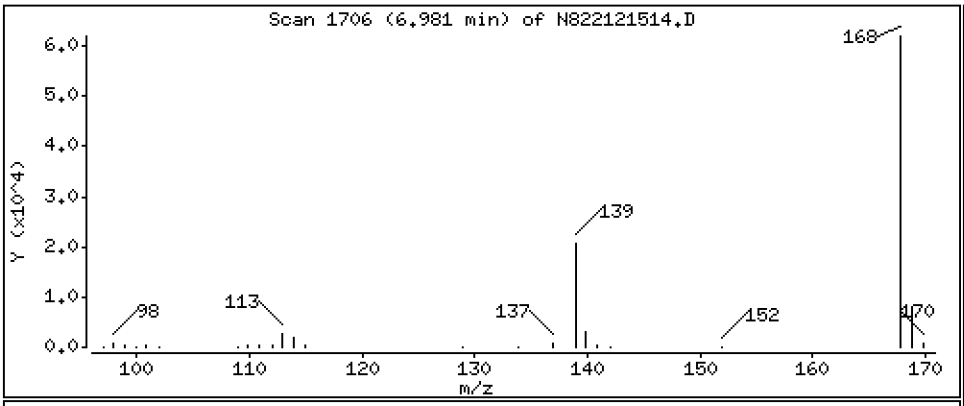
Operator: JZ

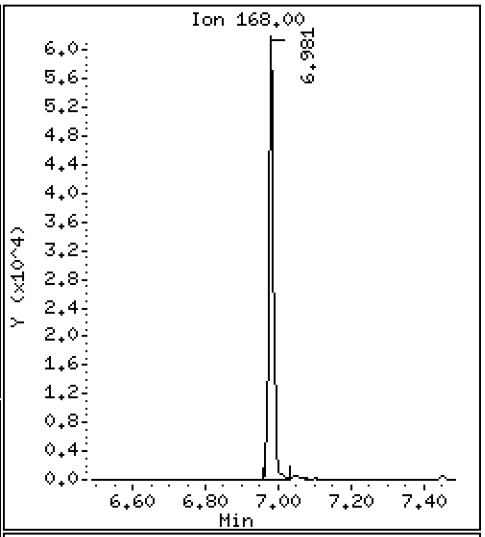
Column phase: Rxi-17sil

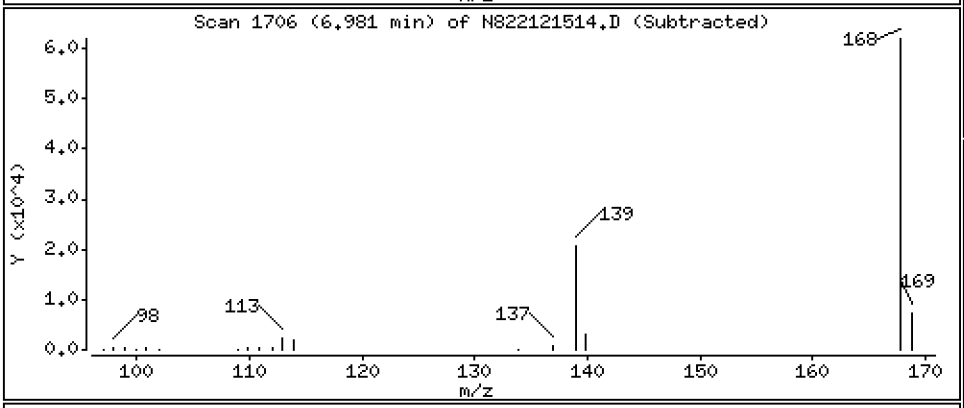
Column diameter: 0.25

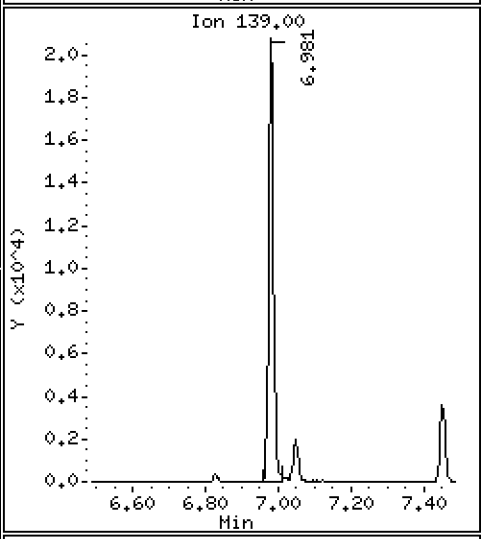
12 Dibenzofuran

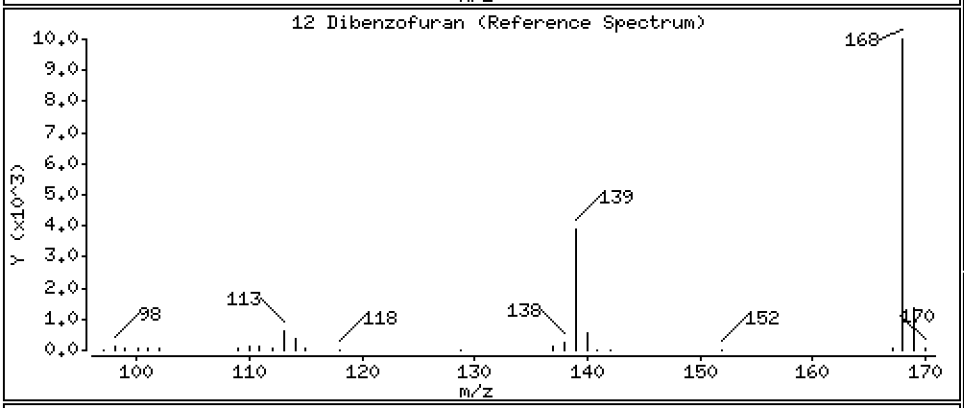
Concentration: 2.725 ug/mL

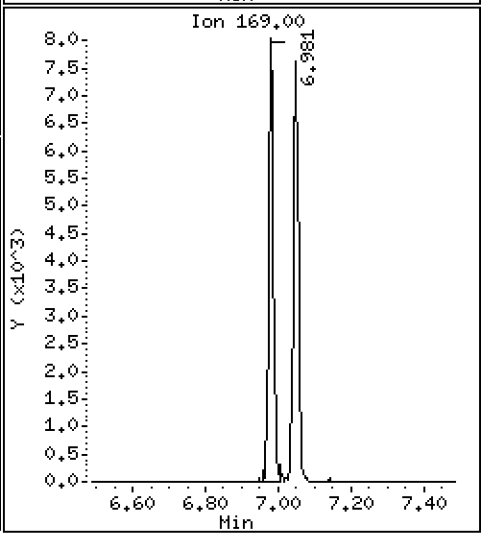


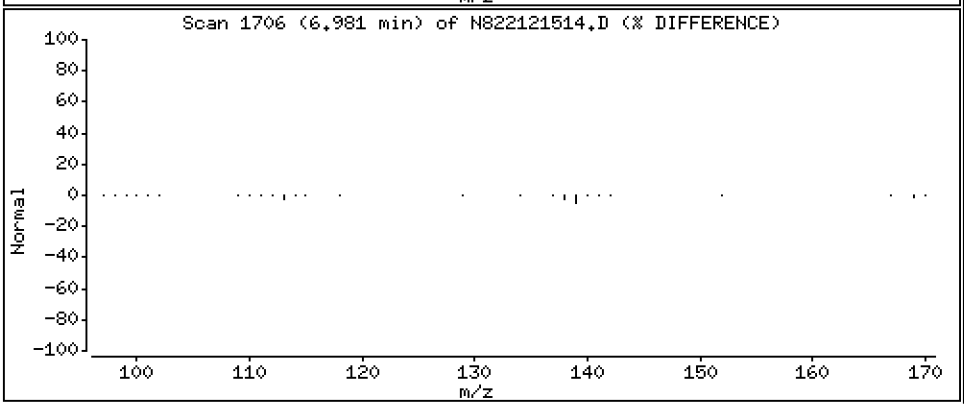












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Date : 15-DEC-2022 20:42

Client ID:

Instrument: nt8.i

Sample Info: CCV221215

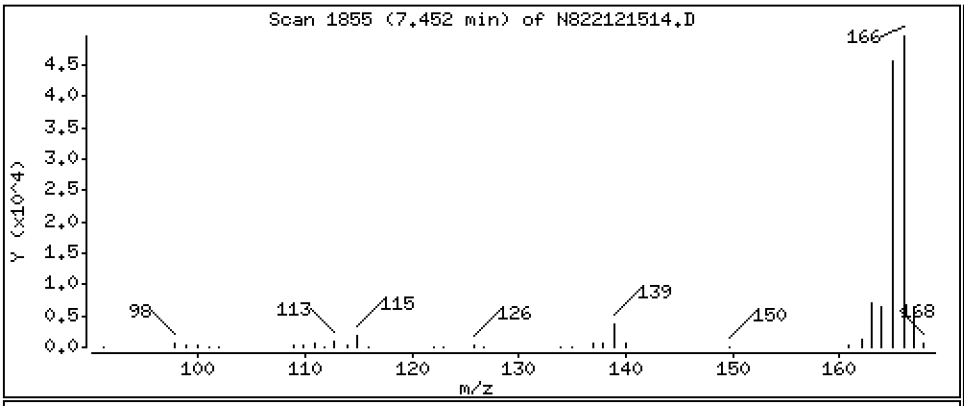
Operator: JZ

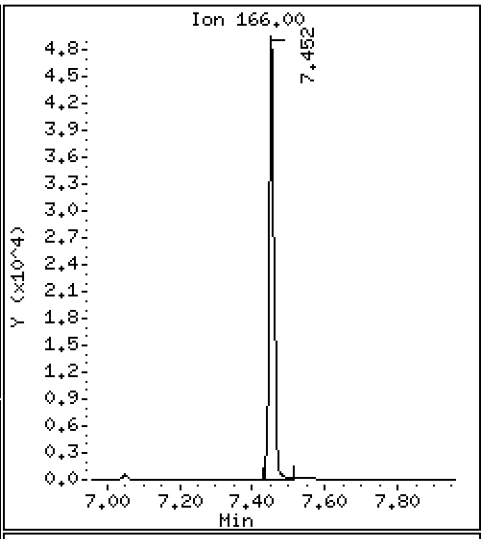
Column phase: Rxi-17sil

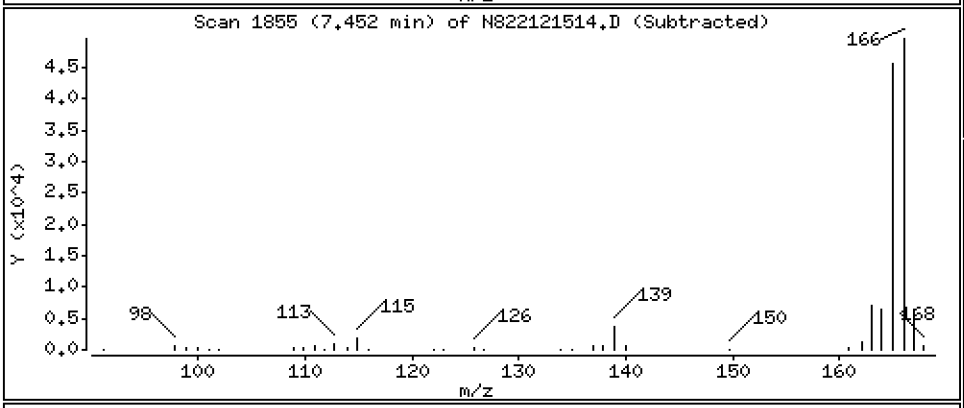
Column diameter: 0.25

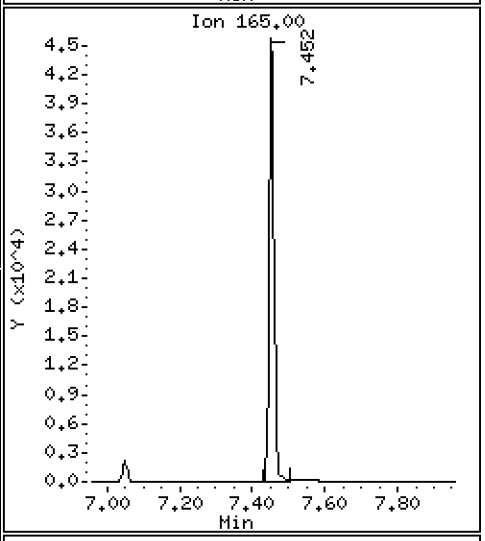
14 Fluorene

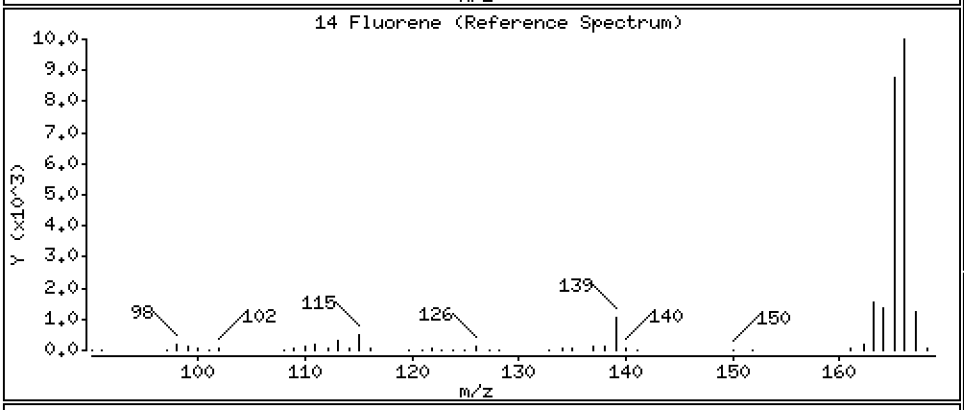
Concentration: 2.821 ug/mL

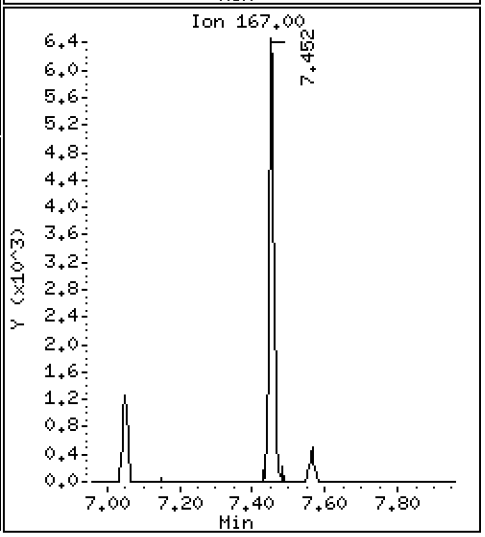


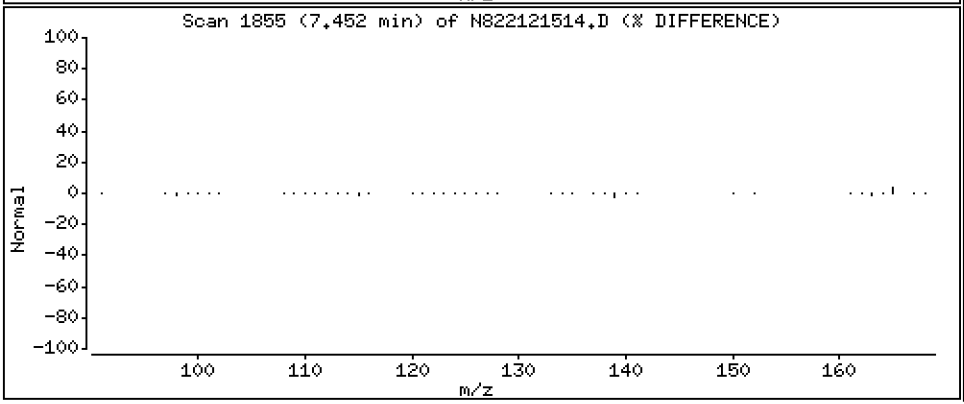












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121514.D

Date : 15-DEC-2022 20:42

Client ID:

Instrument: nt8.i

Sample Info: CCV221215

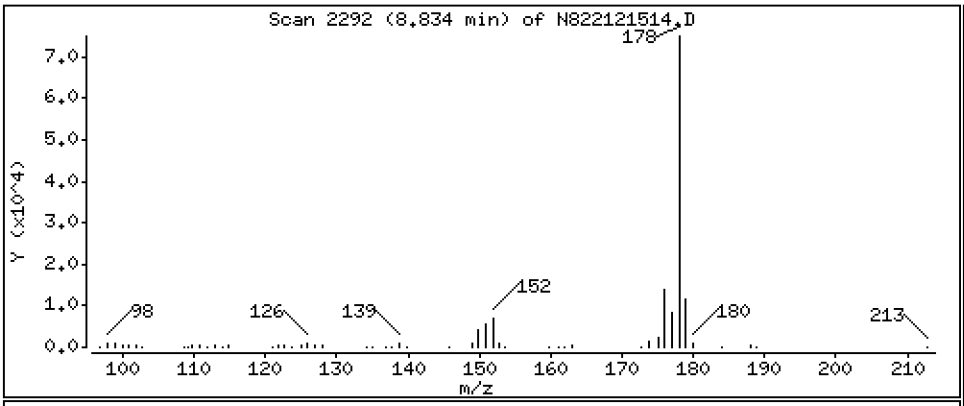
Operator: JZ

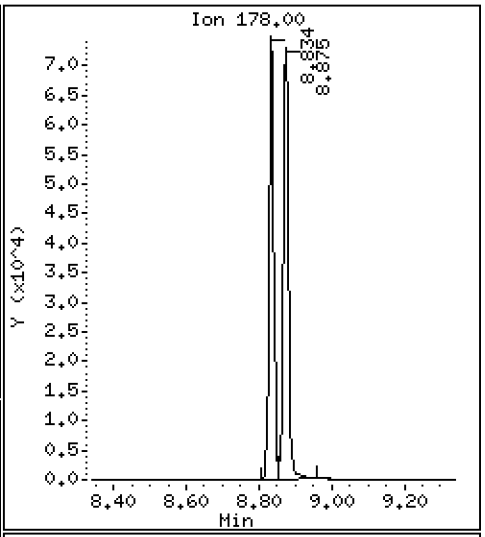
Column phase: Rxi-17sil

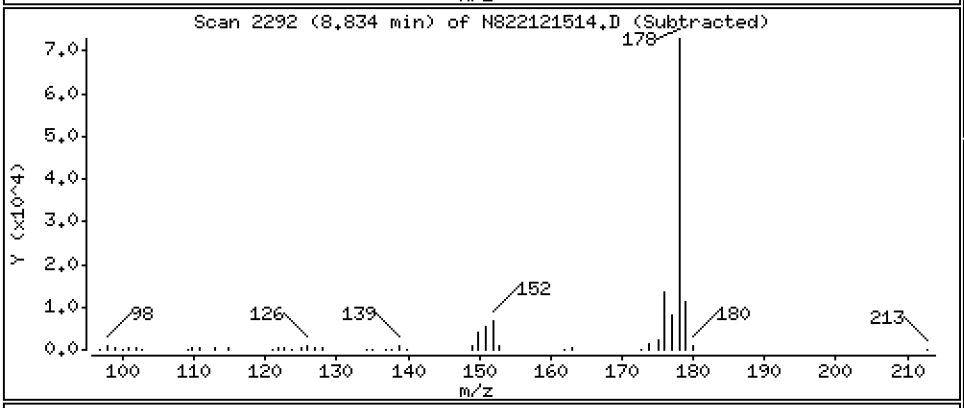
Column diameter: 0.25

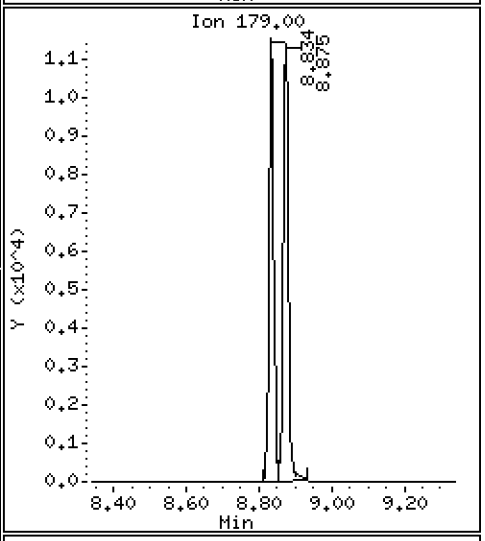
16 Phenanthrene

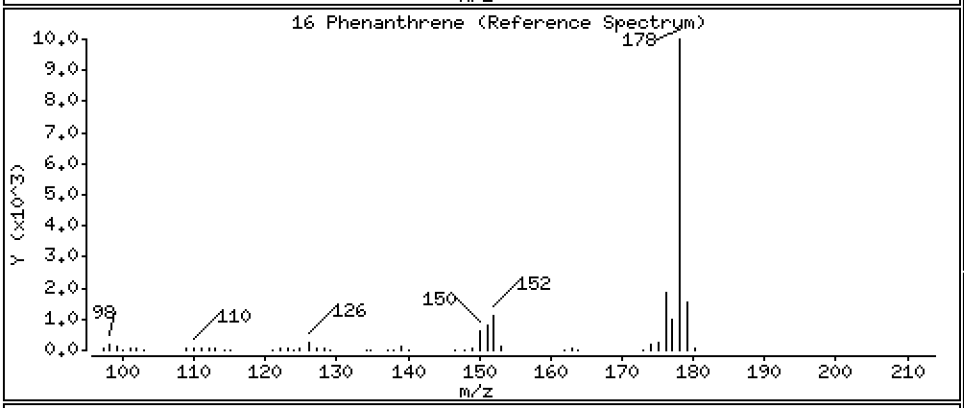
Concentration: 2.510 ug/mL

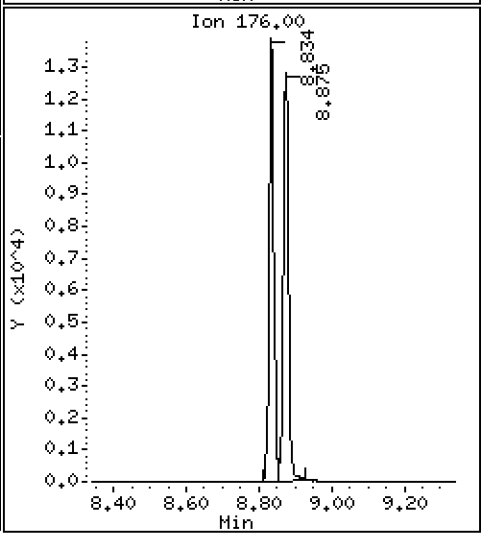


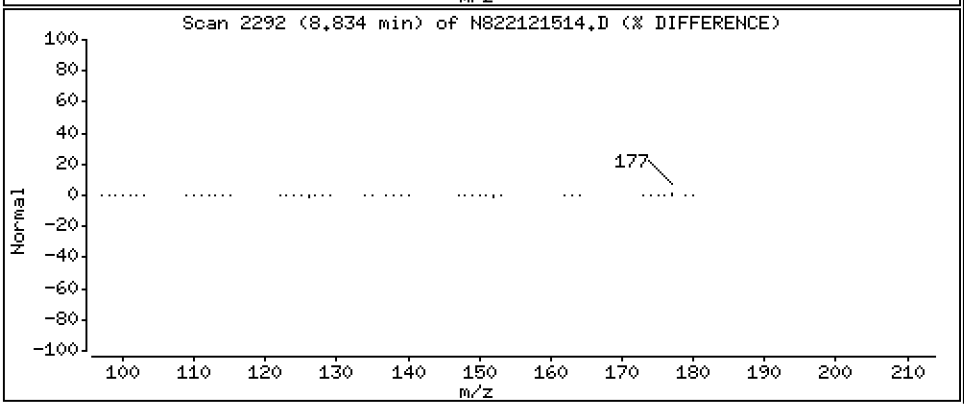












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121514.D

Date : 15-DEC-2022 20:42

Client ID:

Instrument: nt8.i

Sample Info: CCV221215

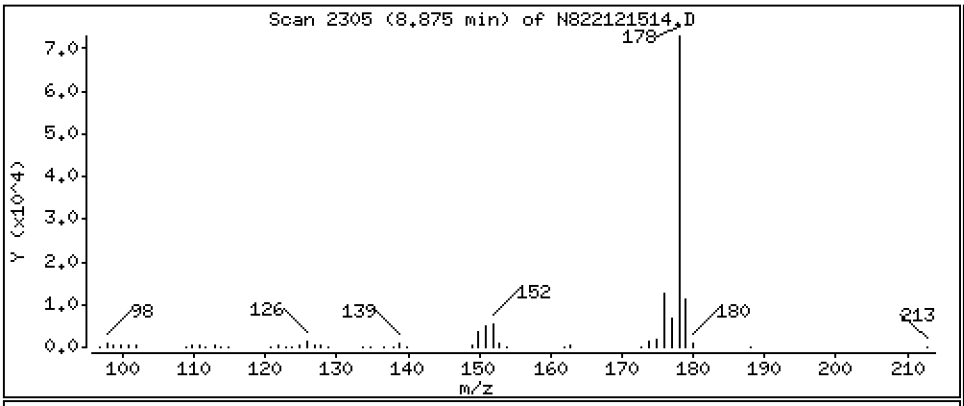
Operator: JZ

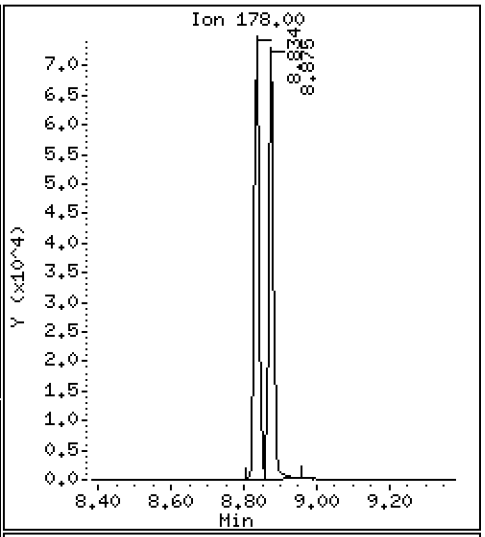
Column phase: Rxi-17sil

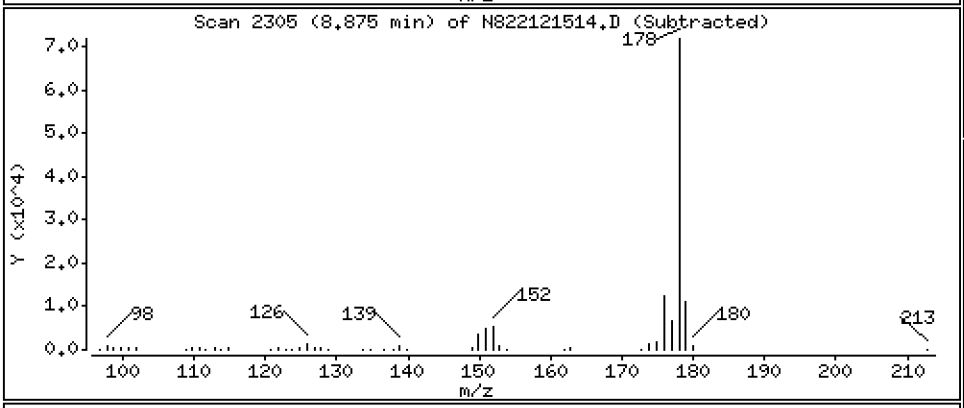
Column diameter: 0.25

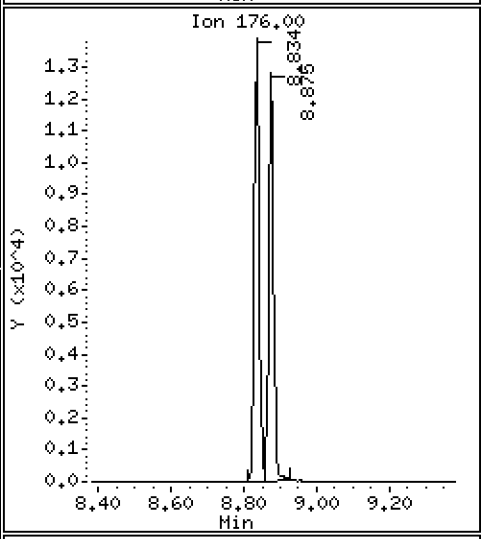
17 Anthracene

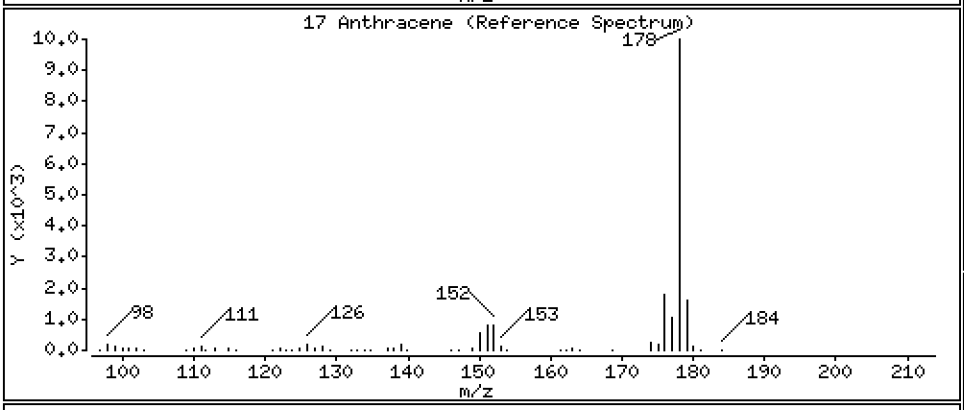
Concentration: 2.666 ug/mL

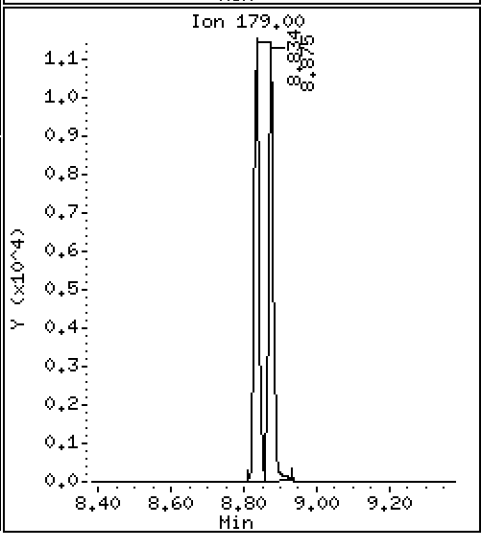


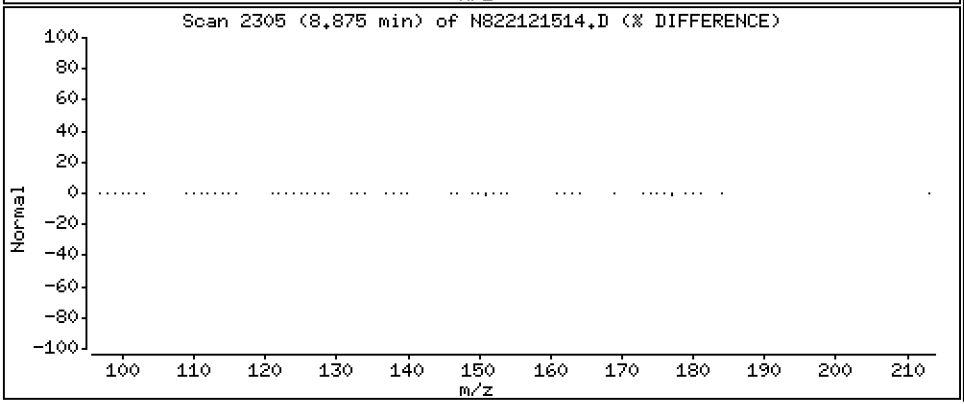












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121514.D

Date : 15-DEC-2022 20:42

Client ID:

Instrument: nt8.i

Sample Info: CCV221215

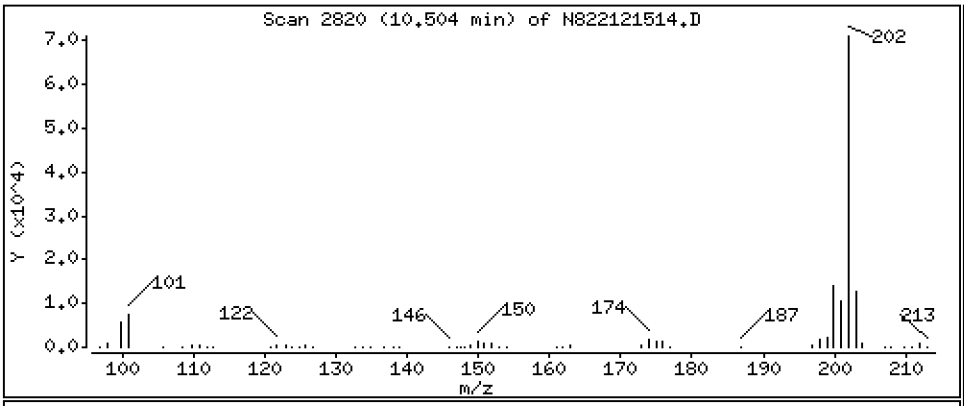
Operator: JZ

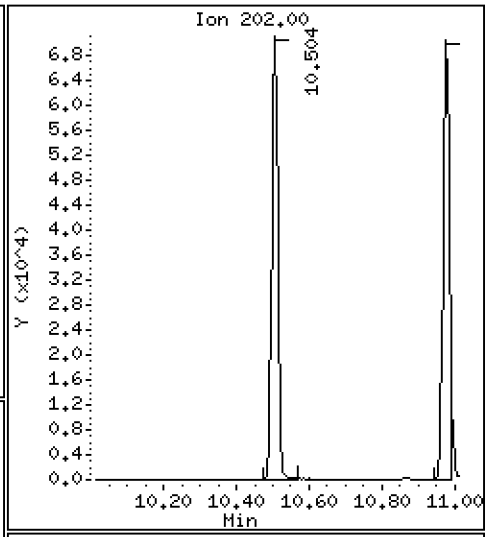
Column phase: Rxi-17sil

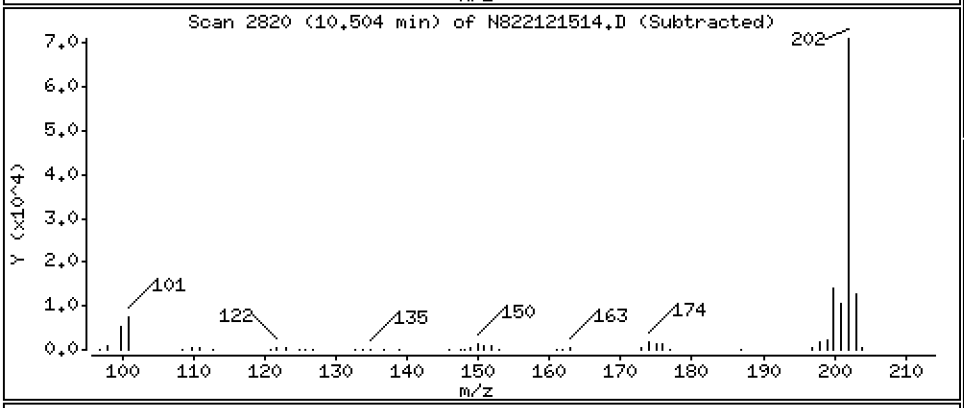
Column diameter: 0.25

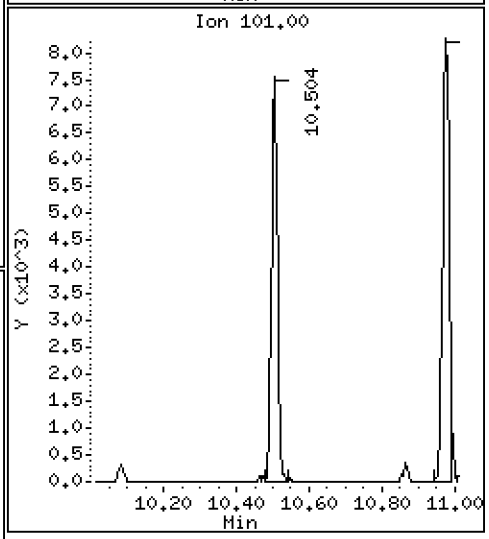
22 Fluoranthene

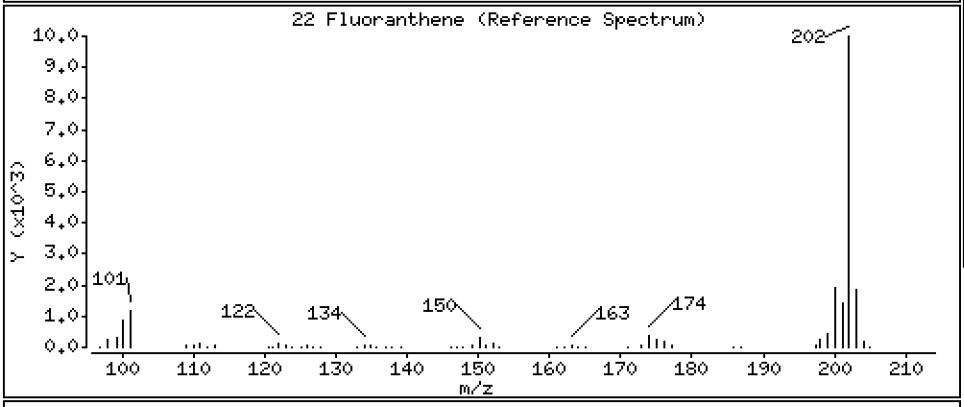
Concentration: 2.699 ug/mL

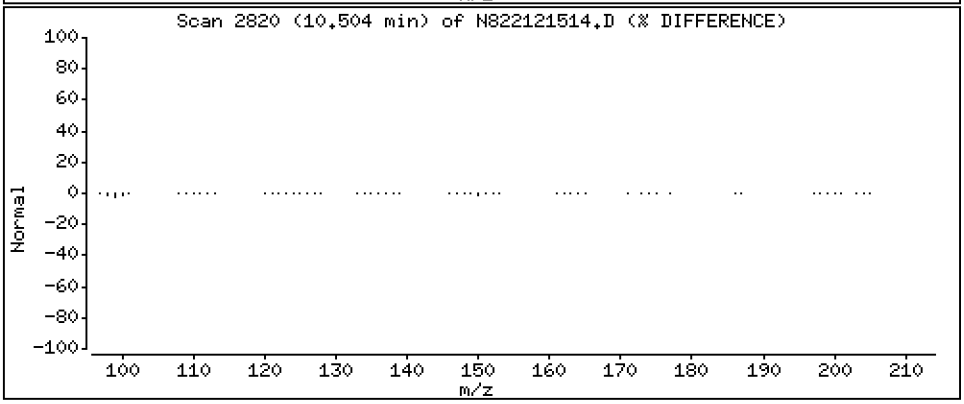












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121514.D

Date : 15-DEC-2022 20:42

Client ID:

Instrument: nt8.i

Sample Info: CCV221215

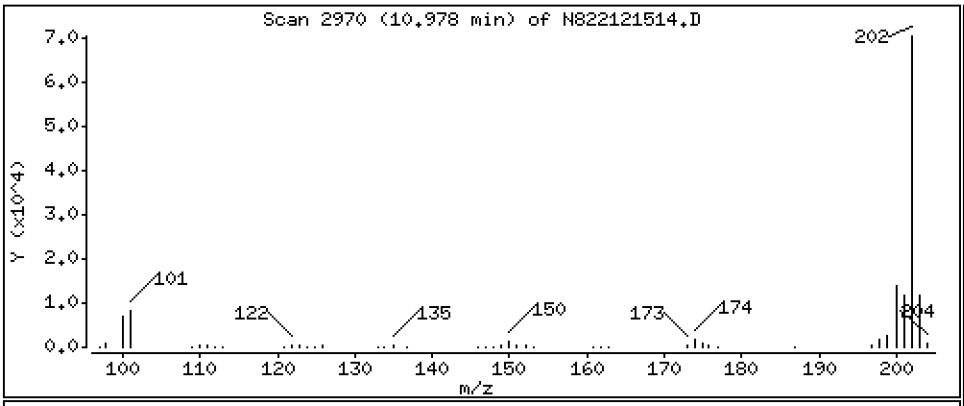
Operator: JZ

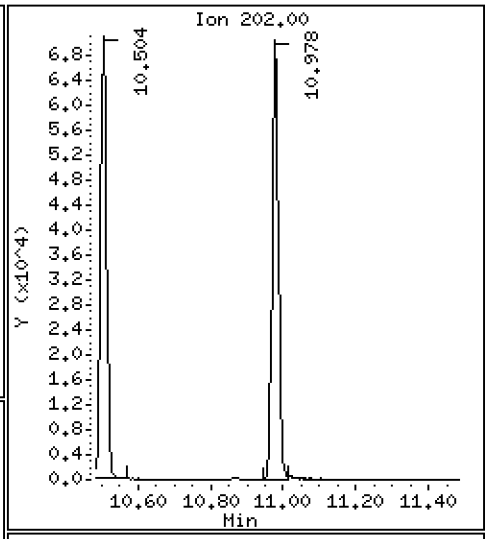
Column phase: Rxi-17sil

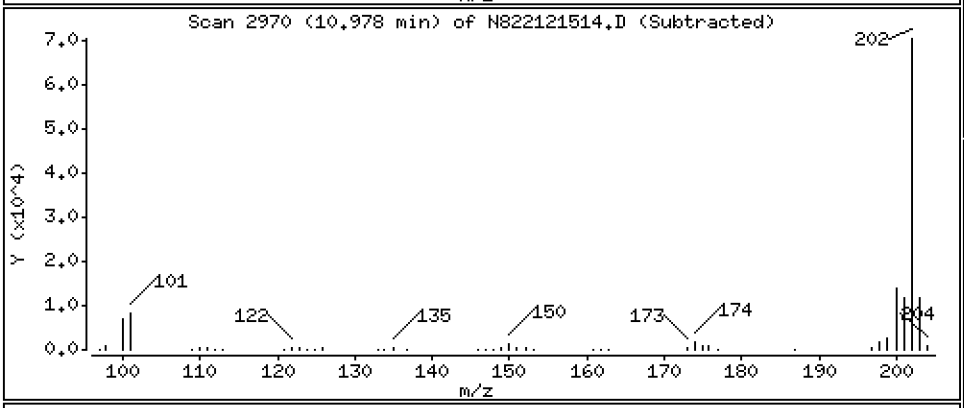
Column diameter: 0.25

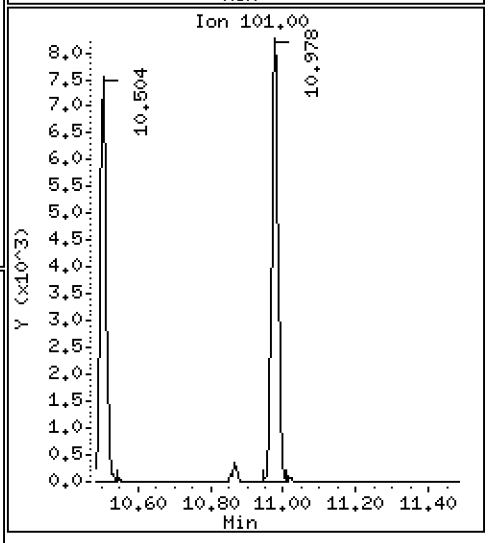
23 Pyrene

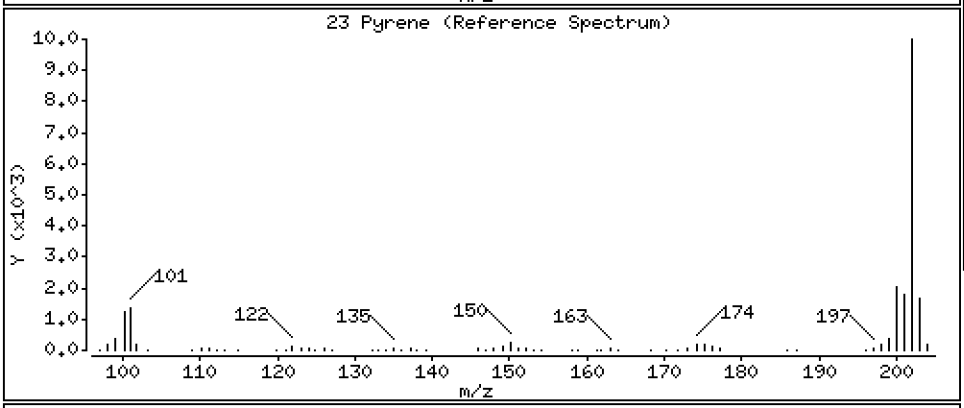
Concentration: 2.413 ug/mL

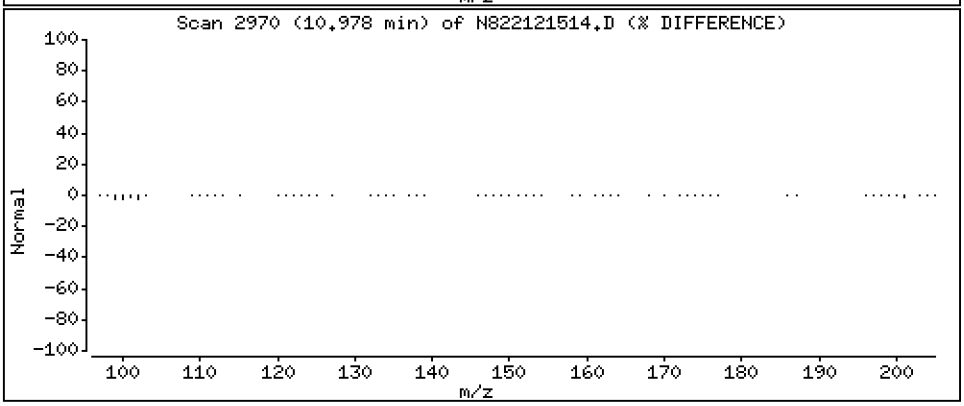












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Date : 15-DEC-2022 20:42

Client ID:

Instrument: nt8.i

Sample Info: CCV221215

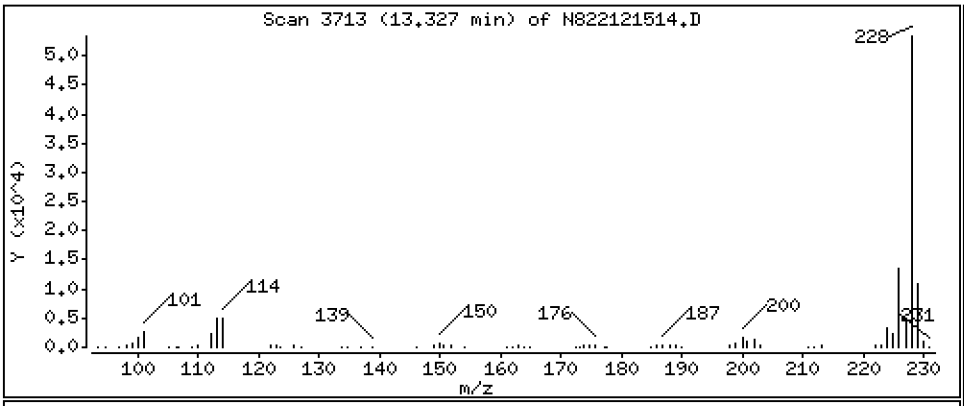
Operator: JZ

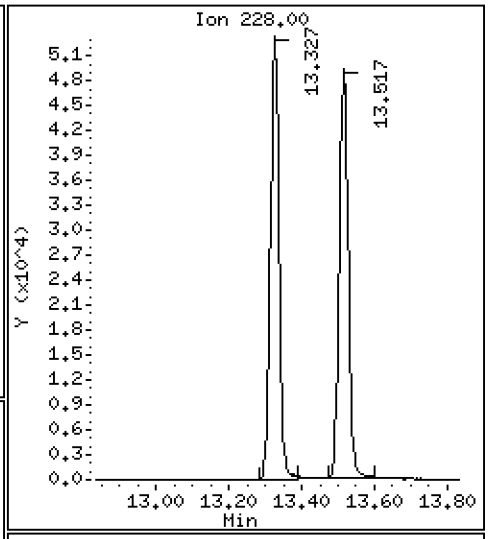
Column phase: Rxi-17sil

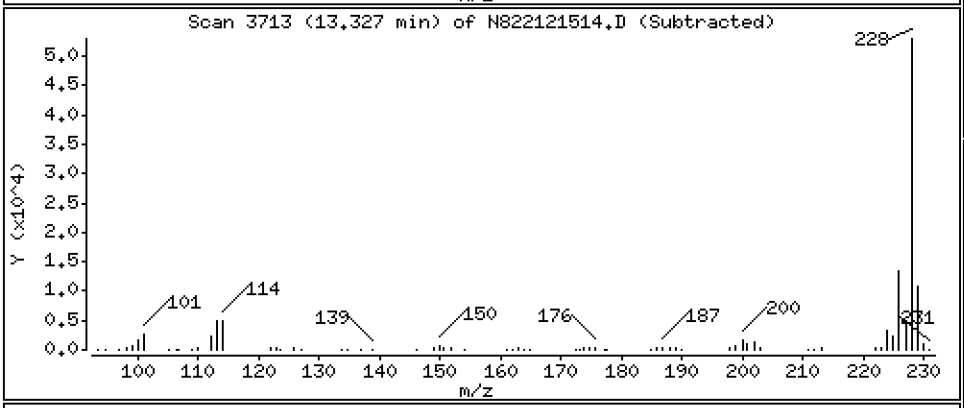
Column diameter: 0.25

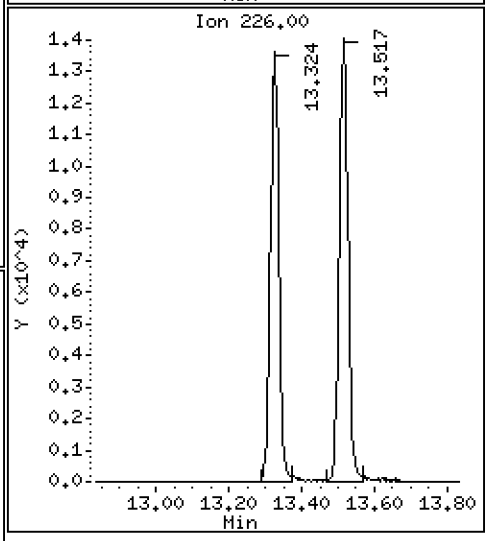
24 Benzo(a)anthracene

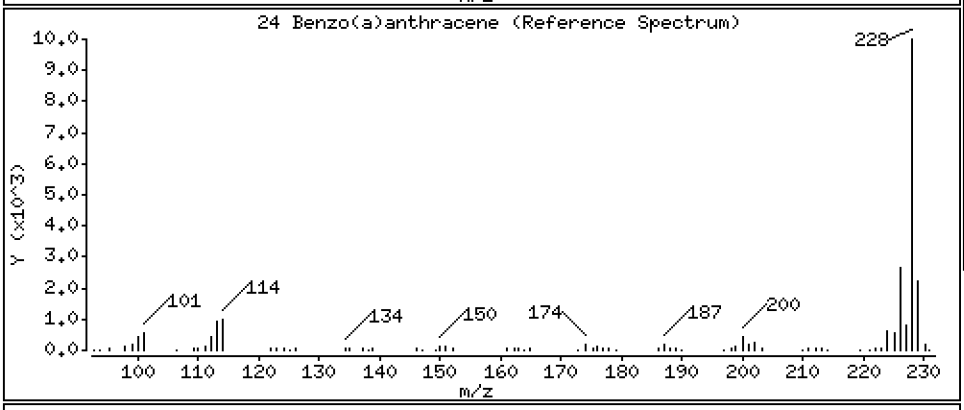
Concentration: 2.623 ug/mL

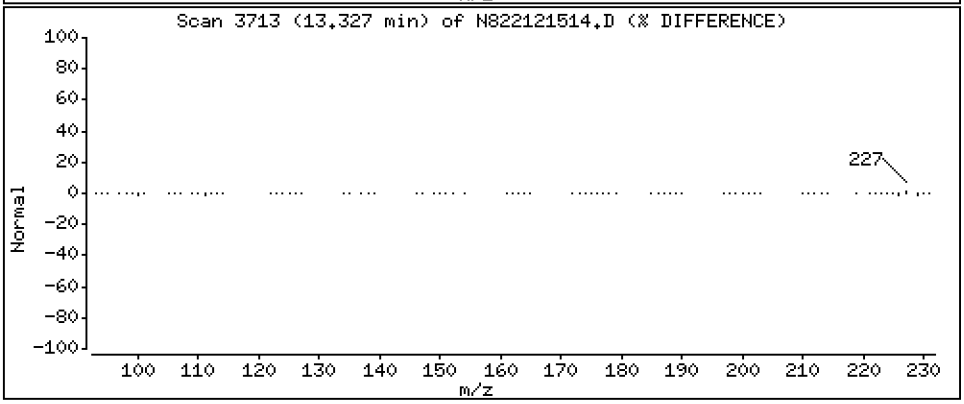












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Date : 15-DEC-2022 20:42

Client ID:

Instrument: nt8.i

Sample Info: CCV221215

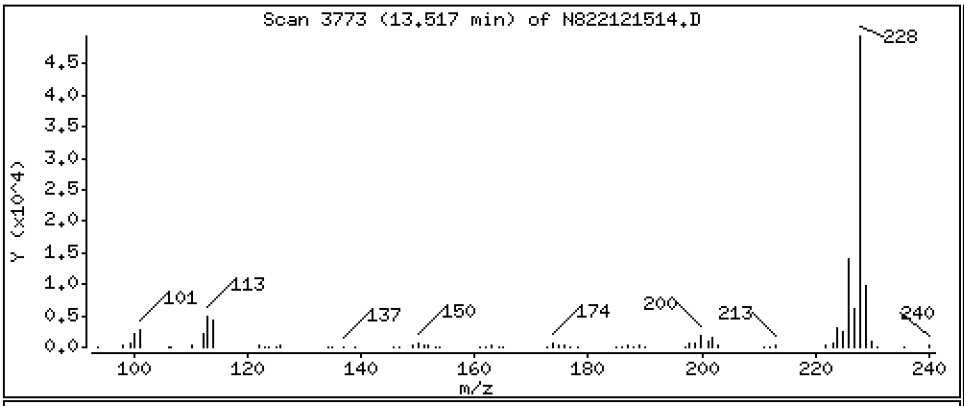
Operator: JZ

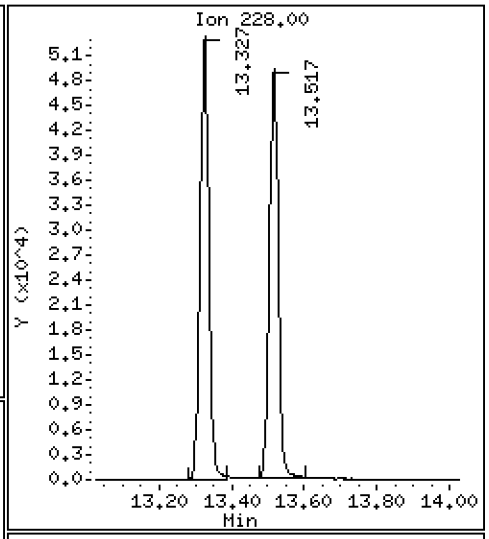
Column phase: Rxi-17sil

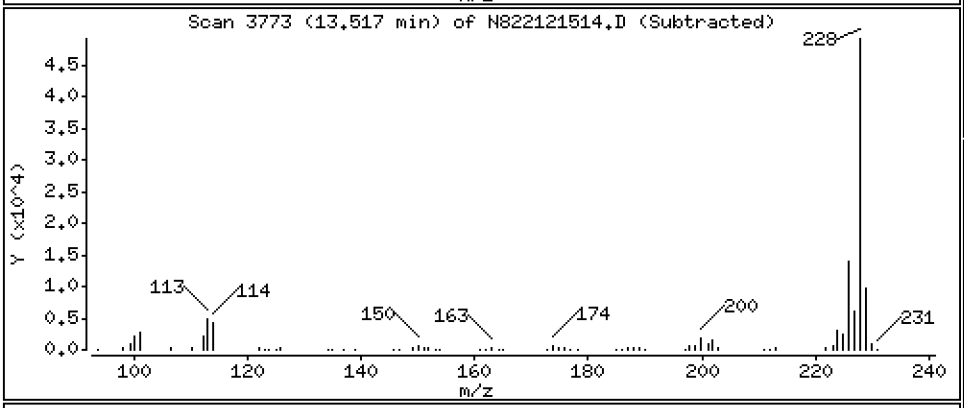
Column diameter: 0.25

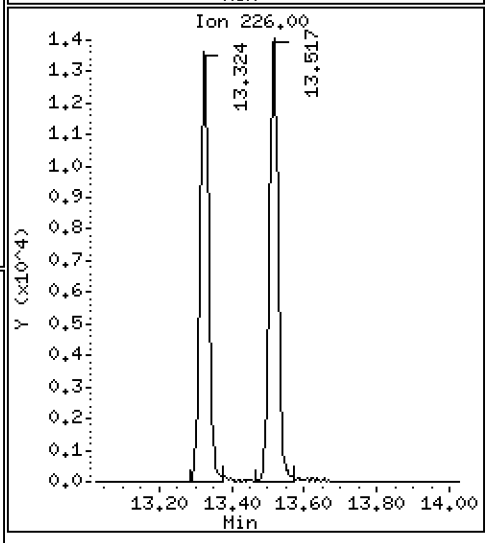
27 Chrysene

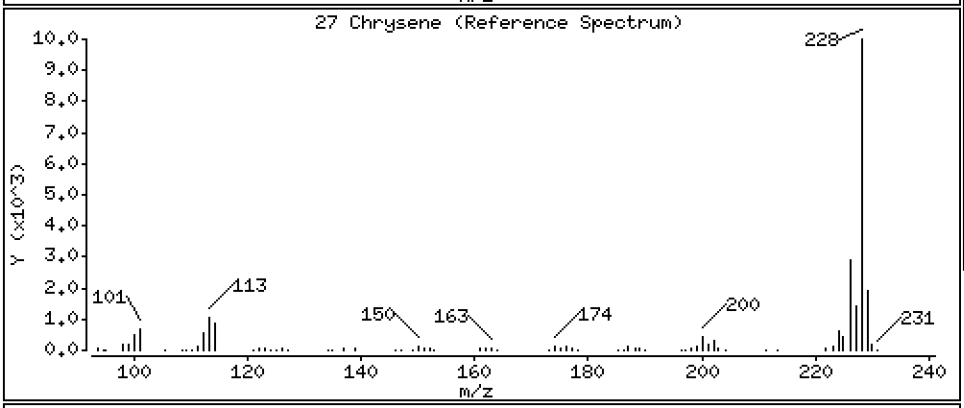
Concentration: 2.600 ug/mL

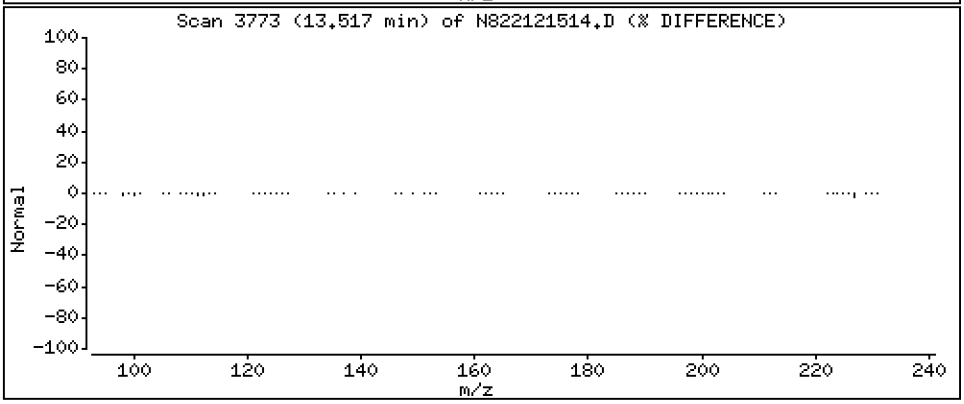












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121514.D

Date : 15-DEC-2022 20:42

Client ID:

Instrument: nt8.i

Sample Info: CCV221215

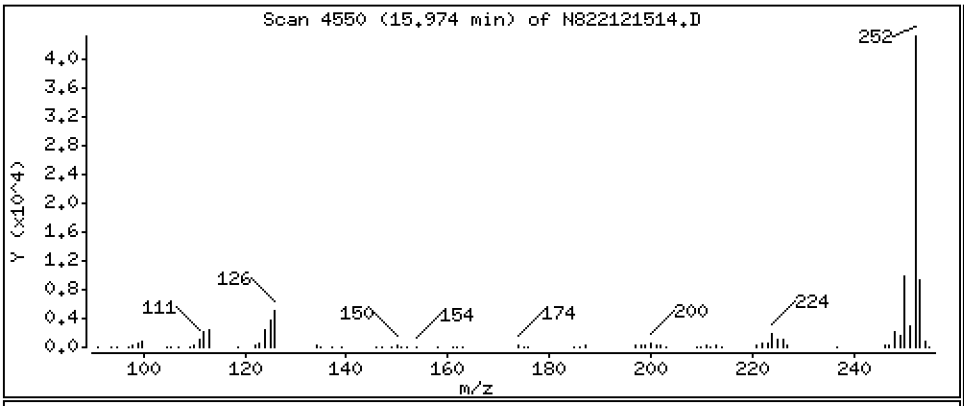
Operator: JZ

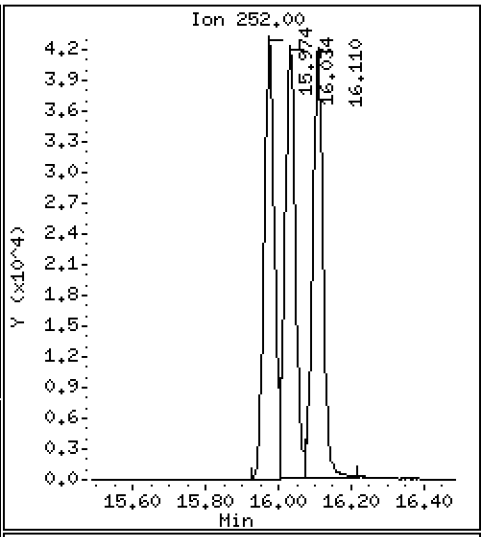
Column phase: Rxi-17sil

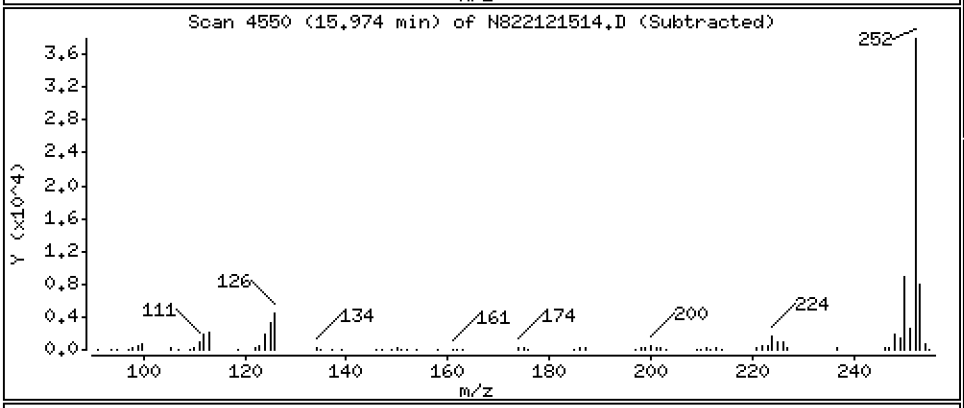
Column diameter: 0.25

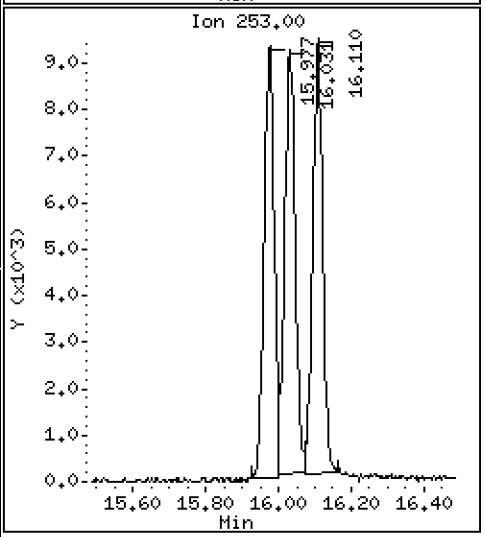
28 Benzo(b)fluoranthene

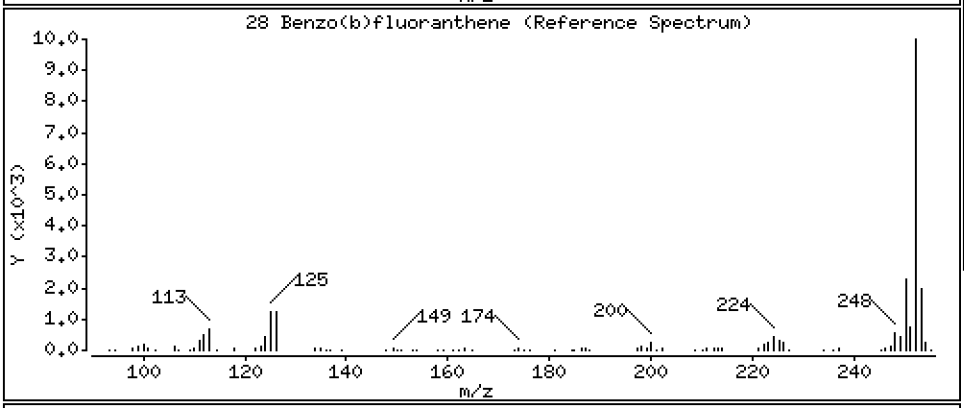
Concentration: 2.163 ug/mL

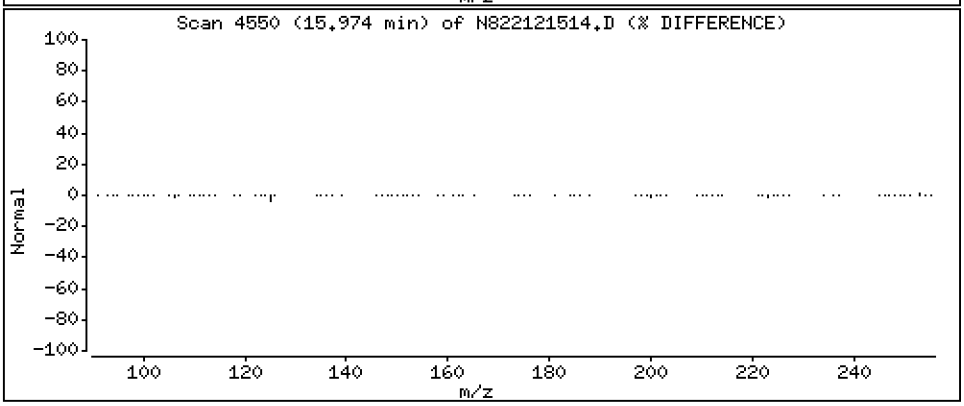












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121514.D

Date : 15-DEC-2022 20:42

Client ID:

Instrument: nt8.i

Sample Info: CCV221215

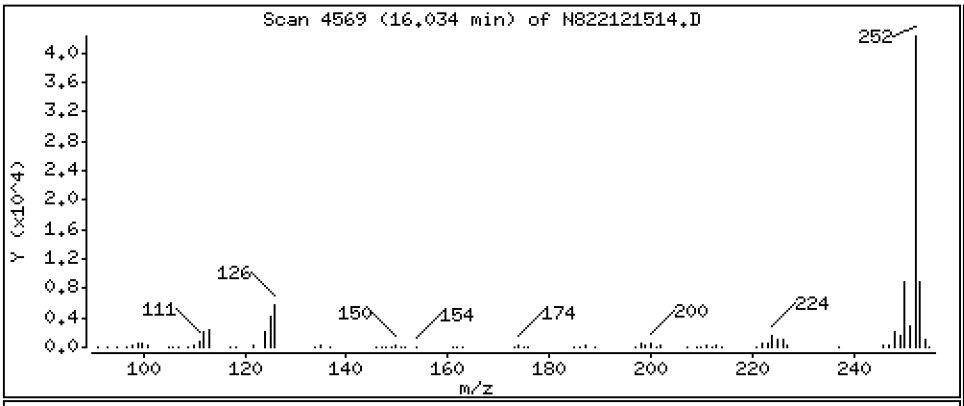
Operator: JZ

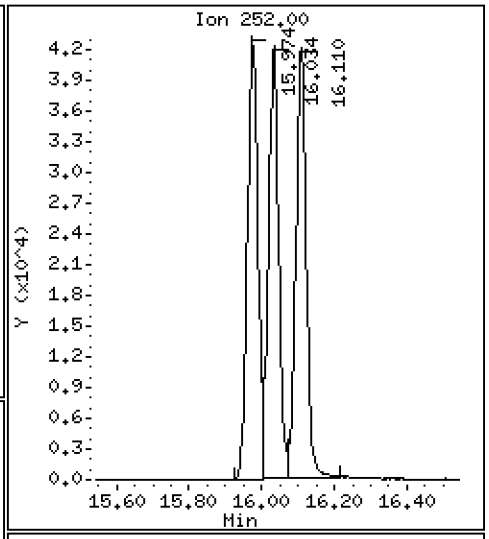
Column phase: Rxi-17sil

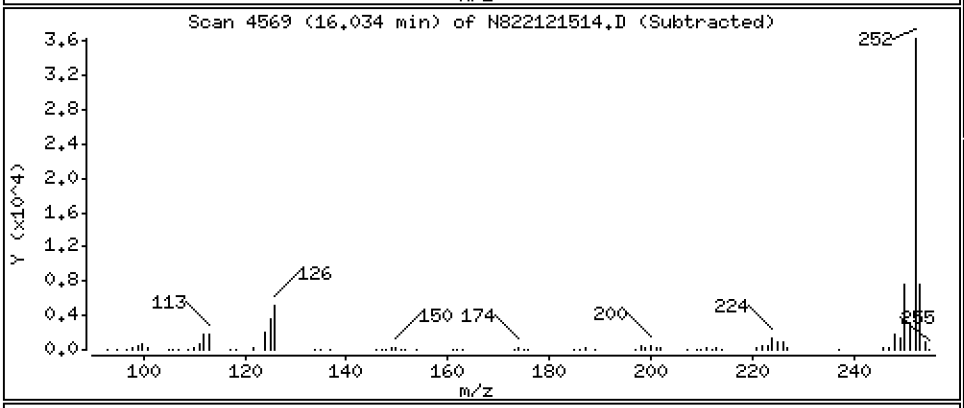
Column diameter: 0.25

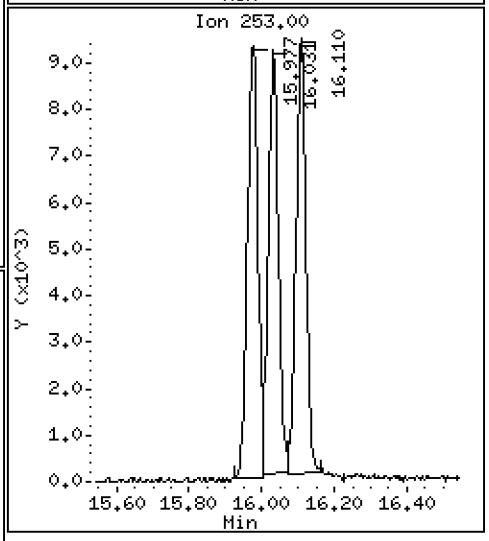
29 Benzo(k)fluoranthene

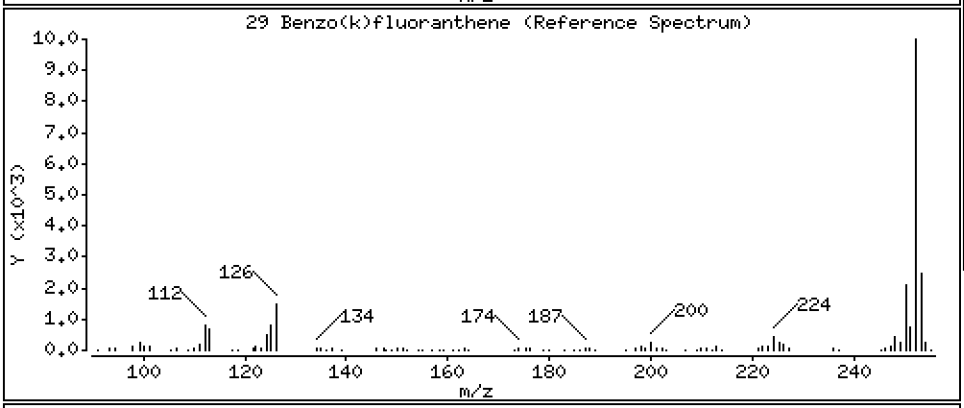
Concentration: 2.224 ug/mL

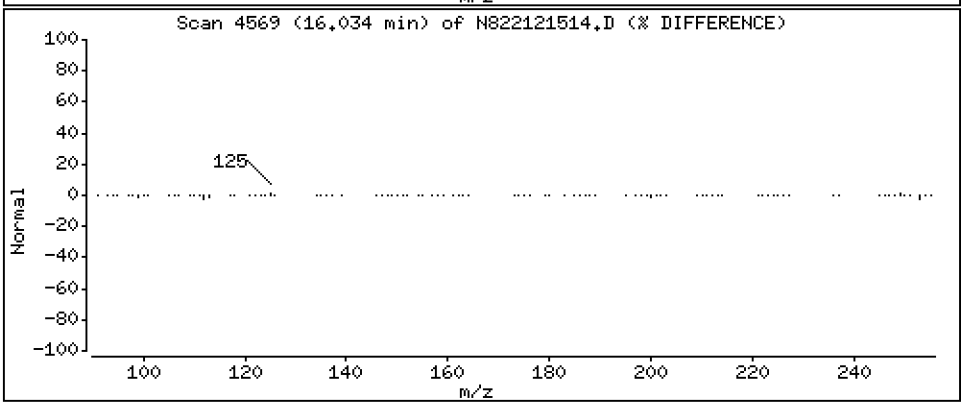












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121514.D

Date : 15-DEC-2022 20:42

Client ID:

Instrument: nt8.i

Sample Info: CCV221215

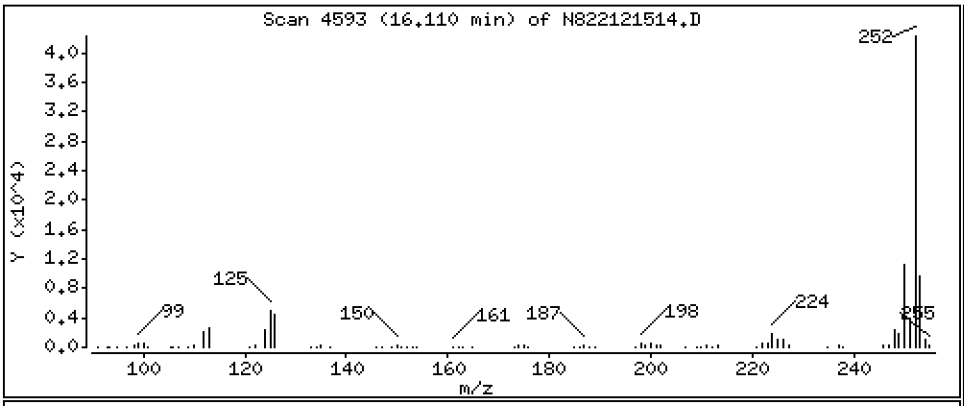
Operator: JZ

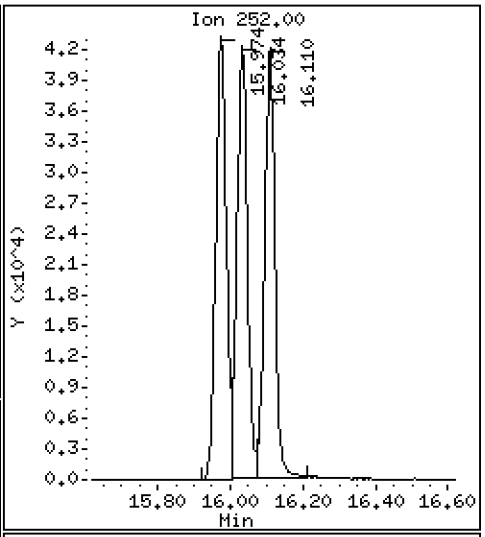
Column phase: Rxi-17sil

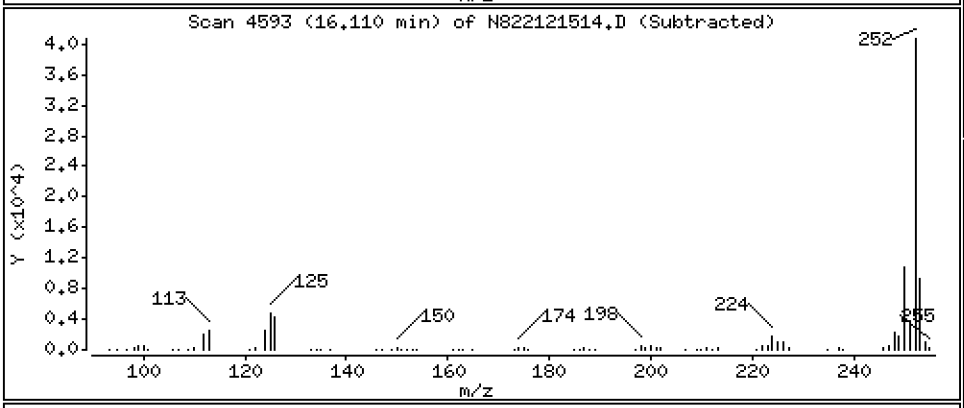
Column diameter: 0.25

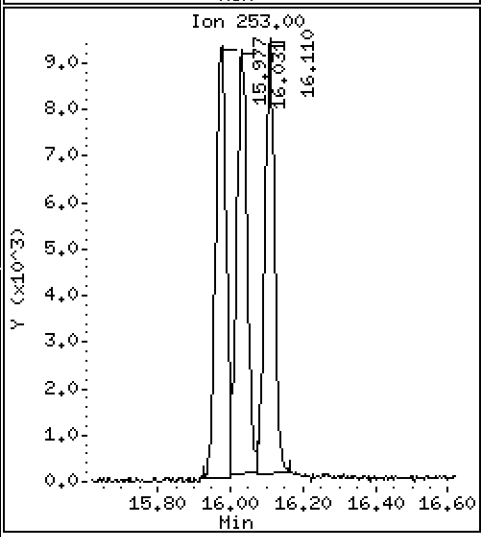
30 Benzo(j)fluoranthene

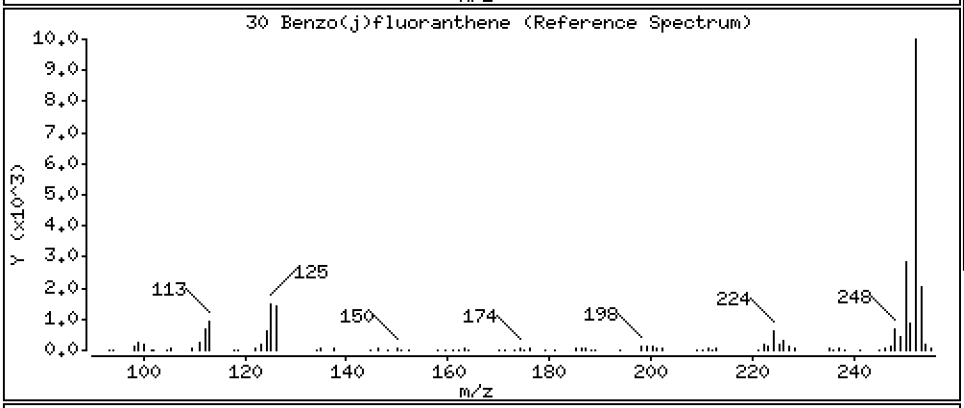
Concentration: 2.412 ug/mL

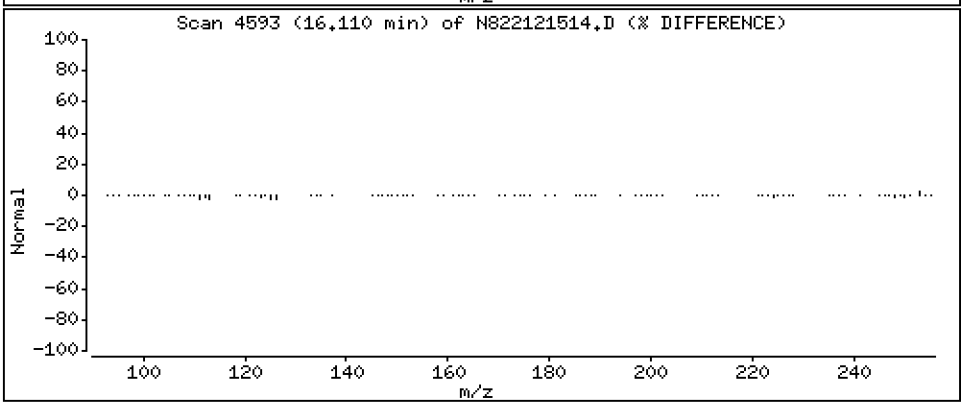












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121514.D

Date : 15-DEC-2022 20:42

Client ID:

Instrument: nt8.i

Sample Info: CCV221215

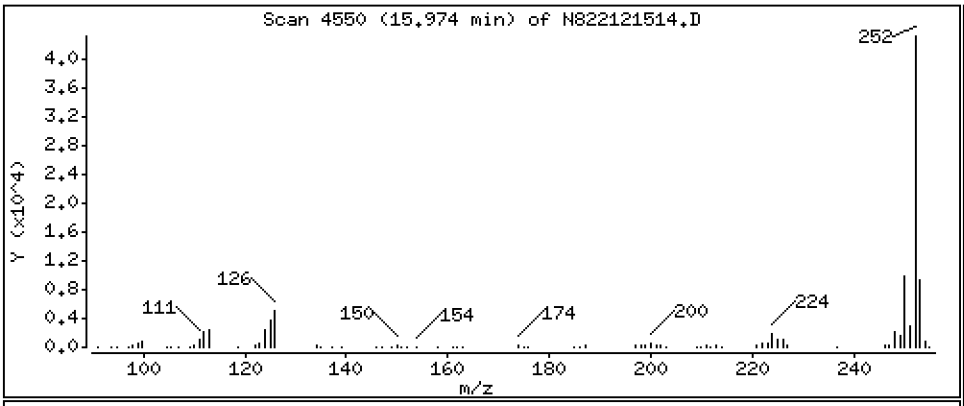
Operator: JZ

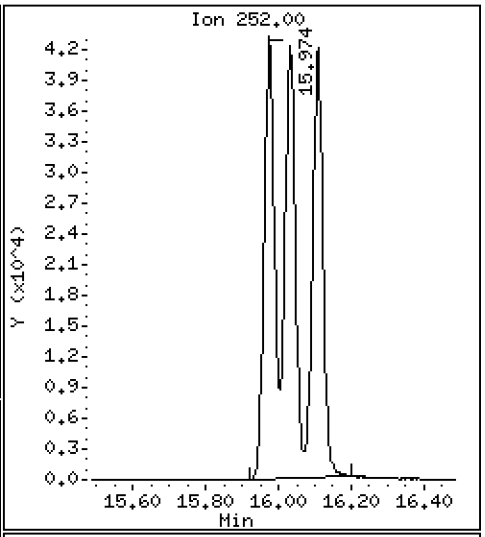
Column phase: Rxi-17sil

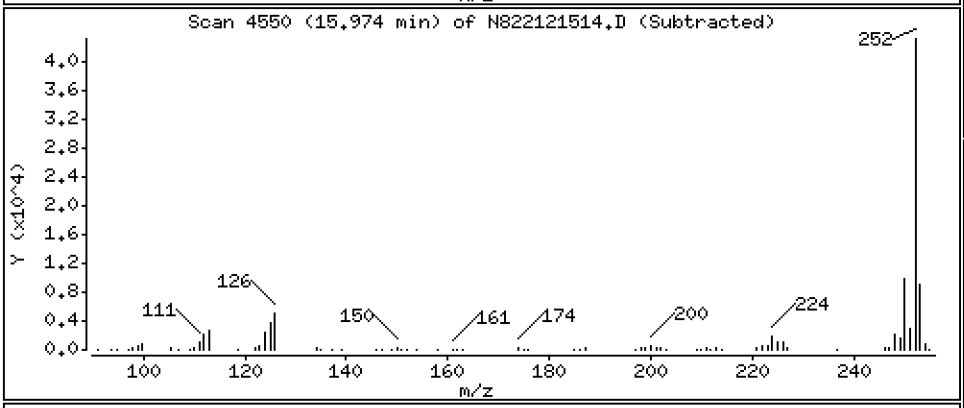
Column diameter: 0.25

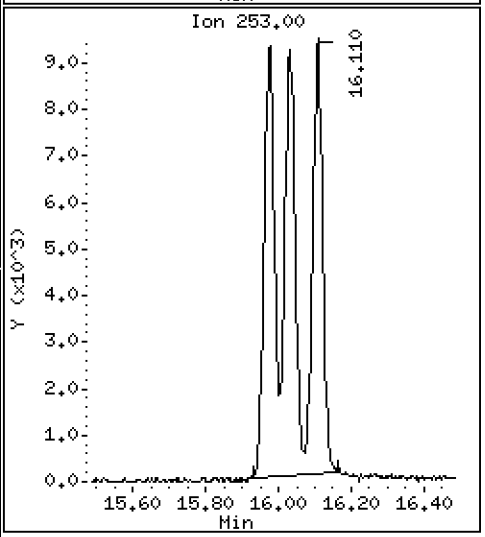
31 Total Benzofluoranthenes

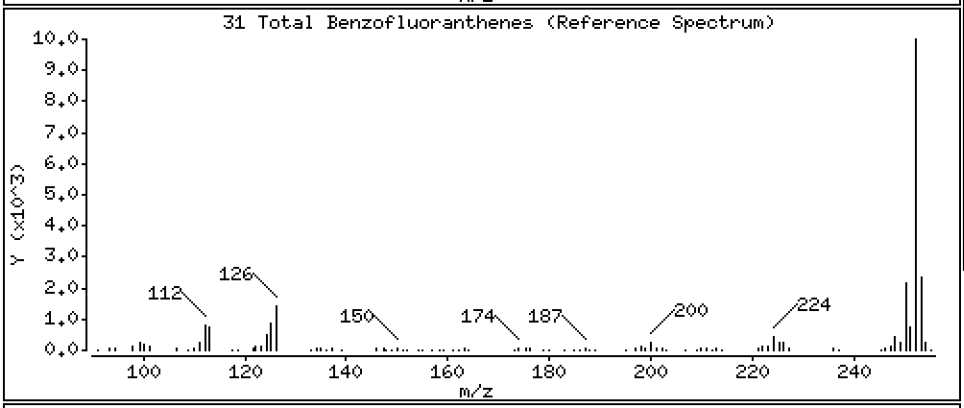
Concentration: 6.743 ug/mL

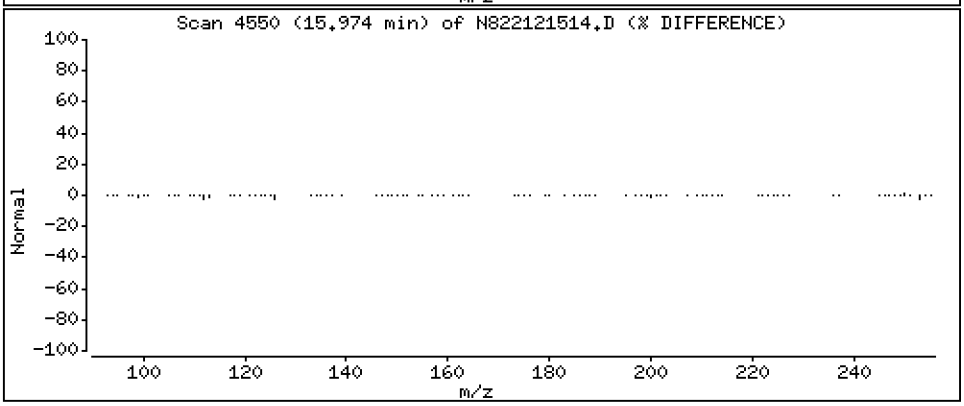












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121514.D

Date : 15-DEC-2022 20:42

Client ID:

Instrument: nt8.i

Sample Info: CCV221215

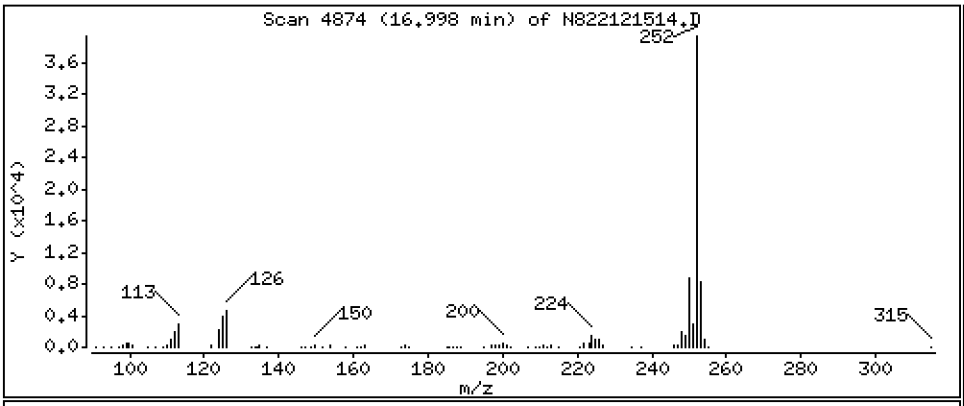
Operator: JZ

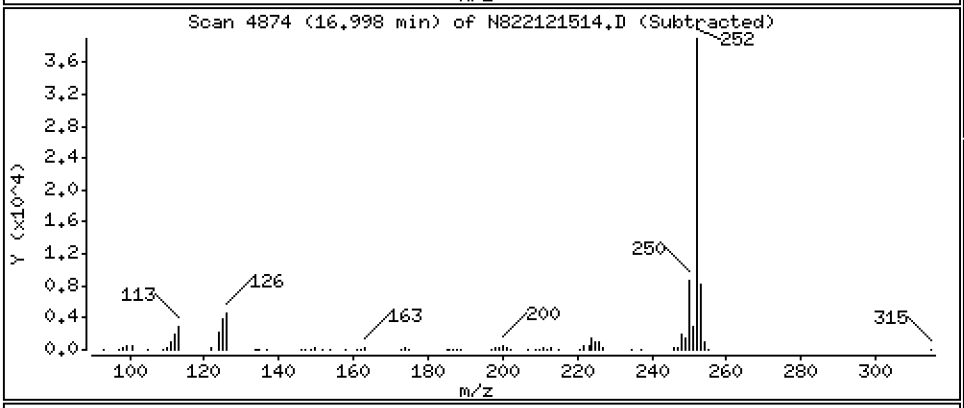
Column phase: Rxi-17sil

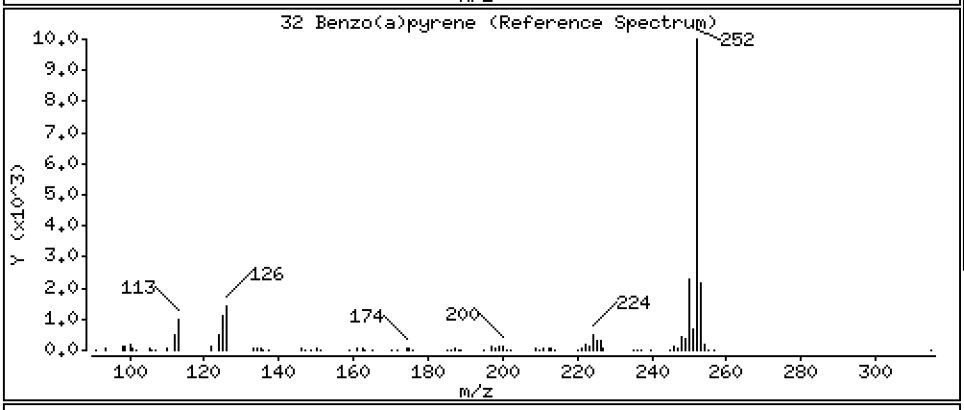
Column diameter: 0.25

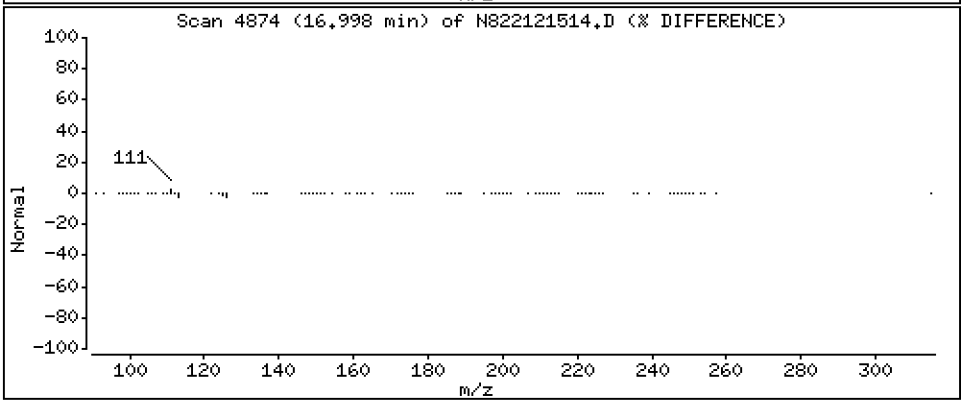
32 Benzo(a)pyrene

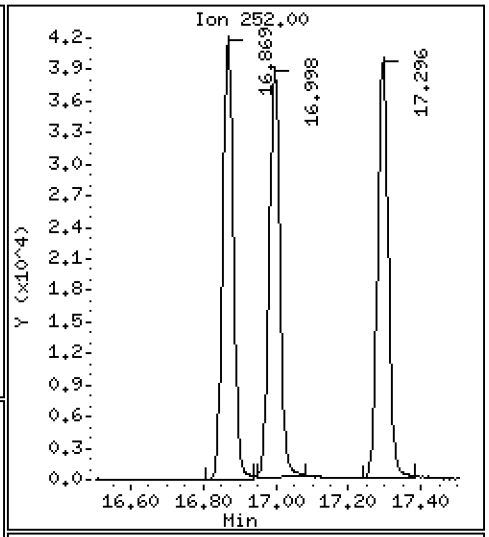
Concentration: 2.410 ug/mL

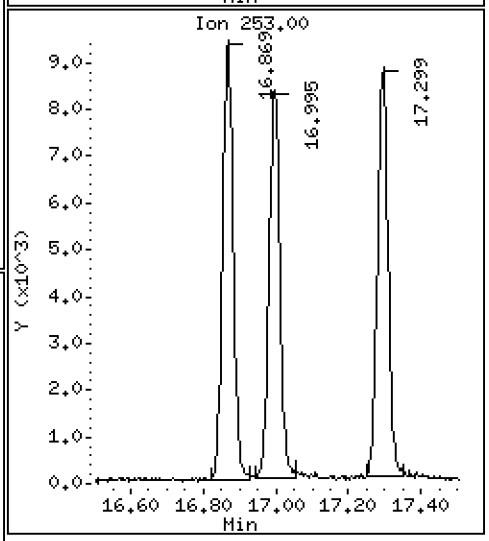












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121514.D

Date : 15-DEC-2022 20:42

Client ID:

Instrument: nt8.i

Sample Info: CCV221215

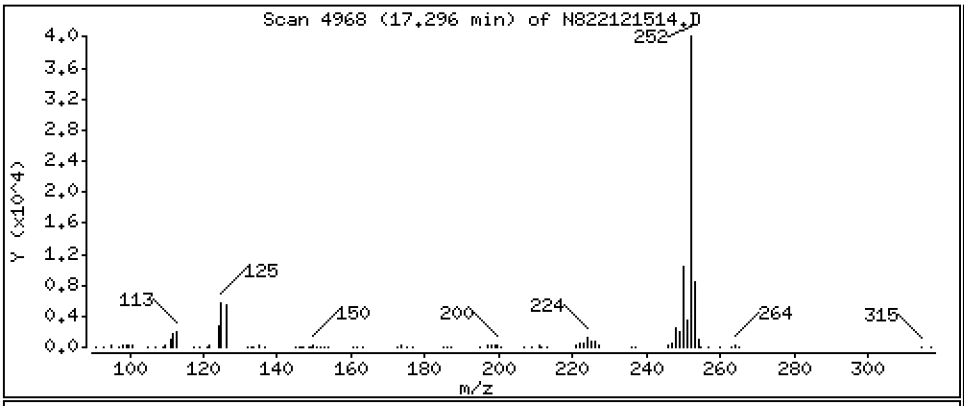
Operator: JZ

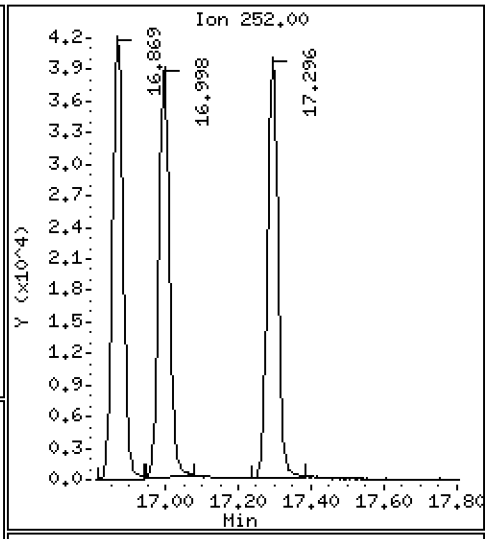
Column phase: Rxi-17sil

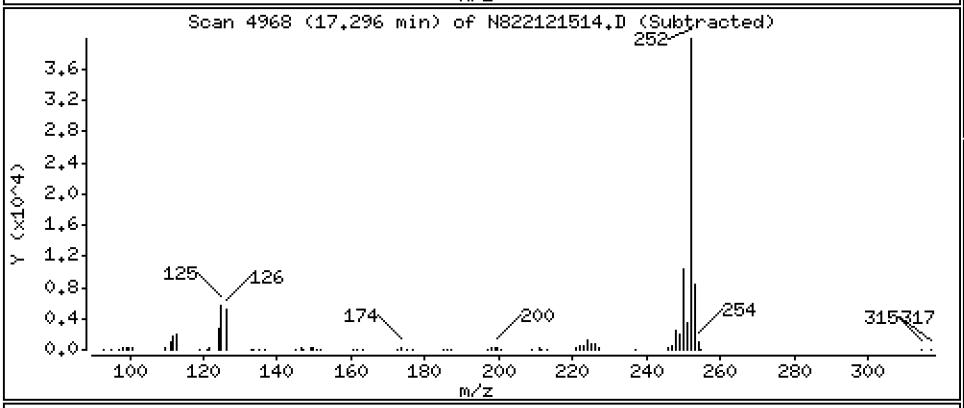
Column diameter: 0.25

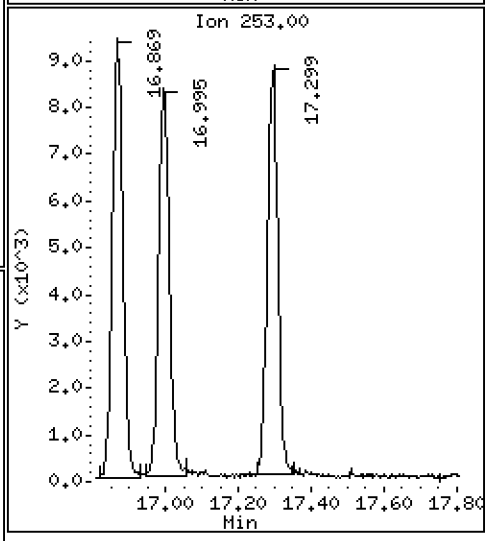
35 Perylene

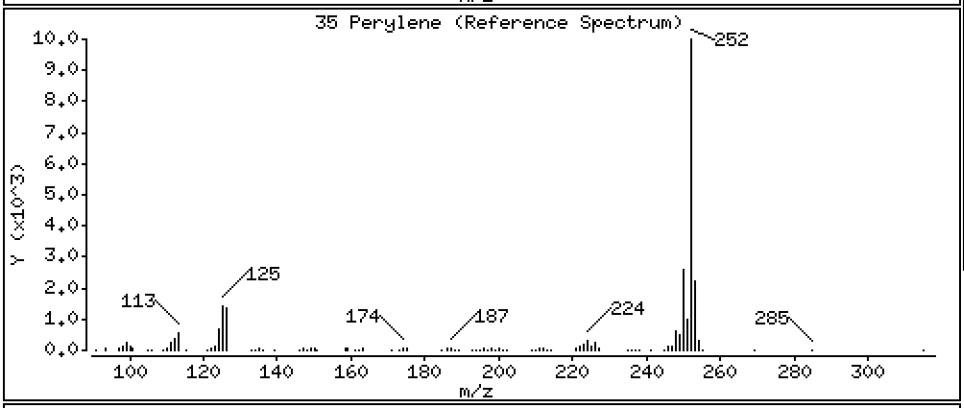
Concentration: 2.441 ug/mL

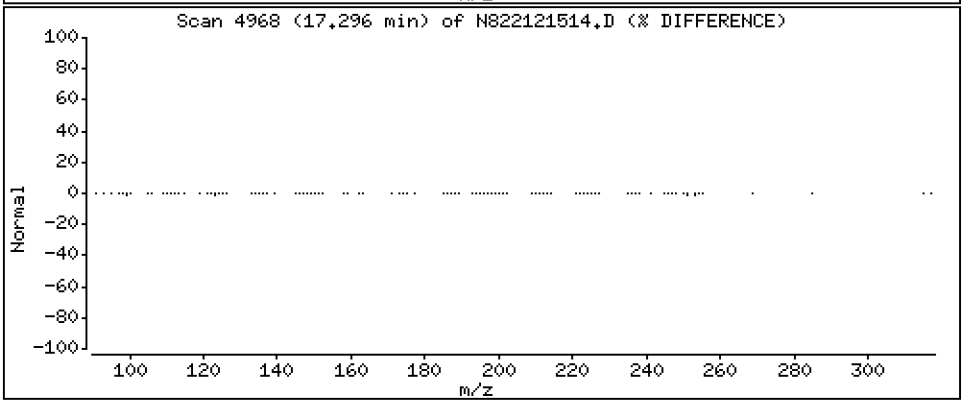












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121514.D

Date : 15-DEC-2022 20:42

Client ID:

Instrument: nt8.i

Sample Info: CCV221215

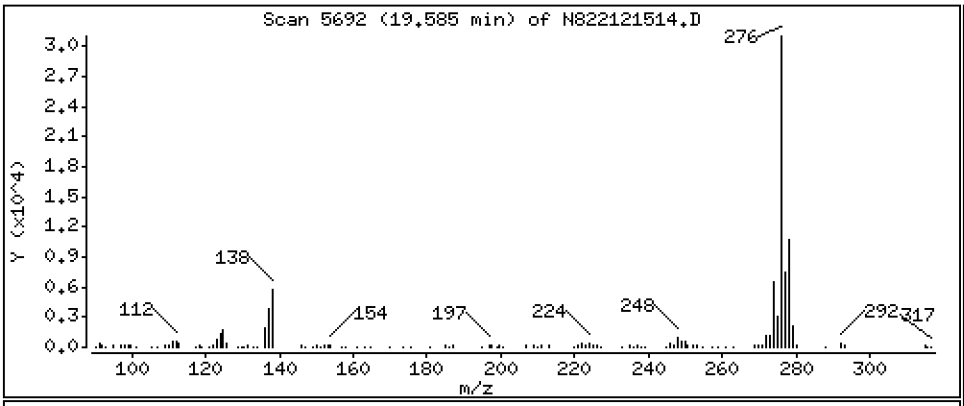
Operator: JZ

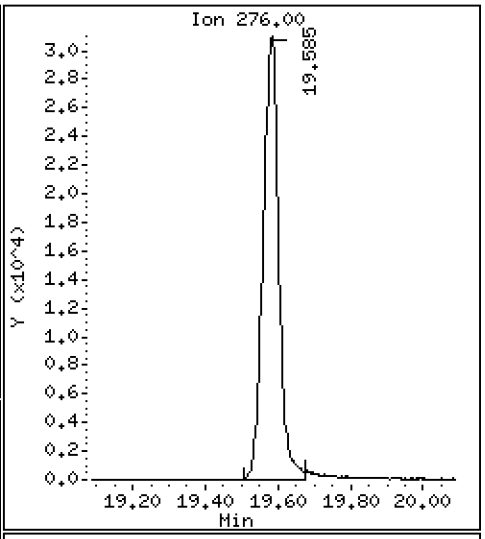
Column phase: Rxi-17sil

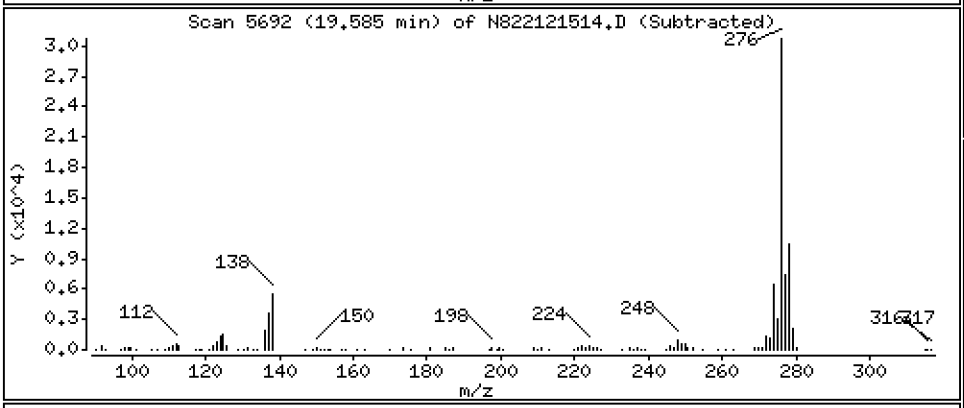
Column diameter: 0.25

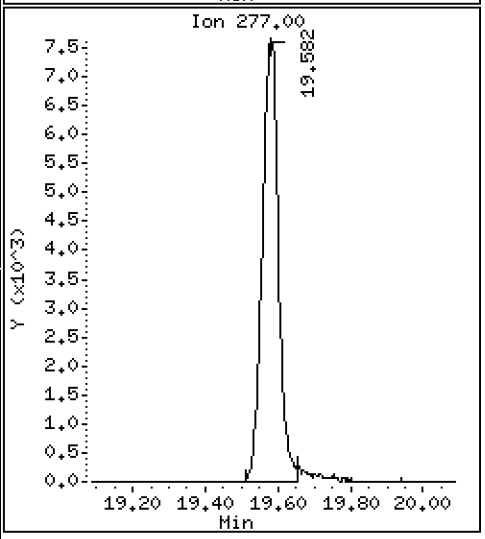
37 Indeno(1,2,3-cd)pyrene

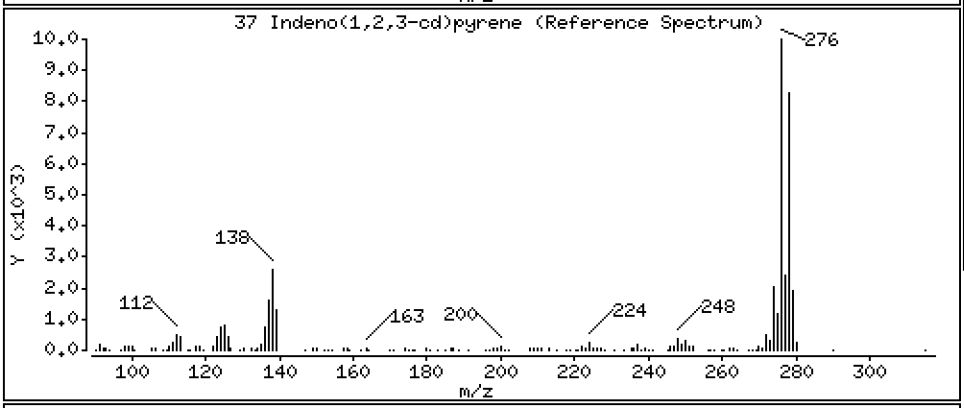
Concentration: 2.868 ug/mL

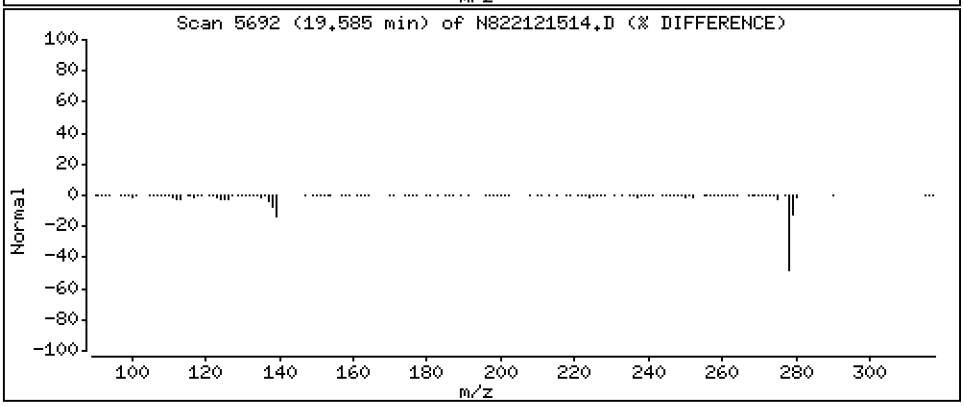












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Date : 15-DEC-2022 20:42

Client ID:

Instrument: nt8.i

Sample Info: CCV221215

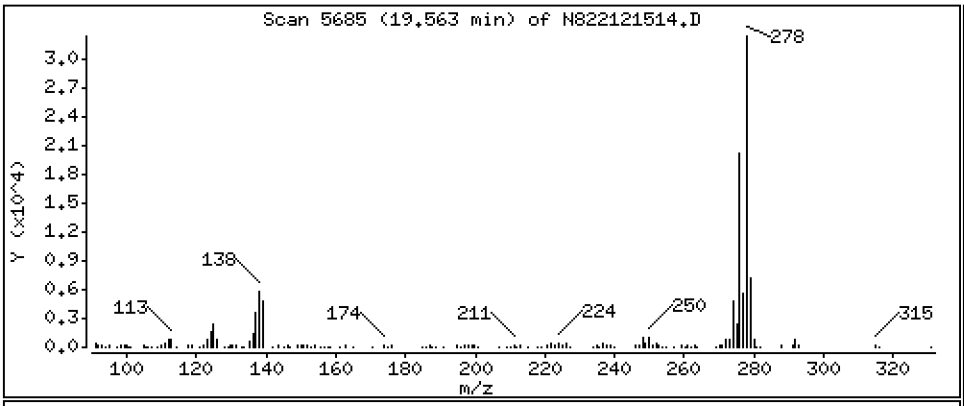
Operator: JZ

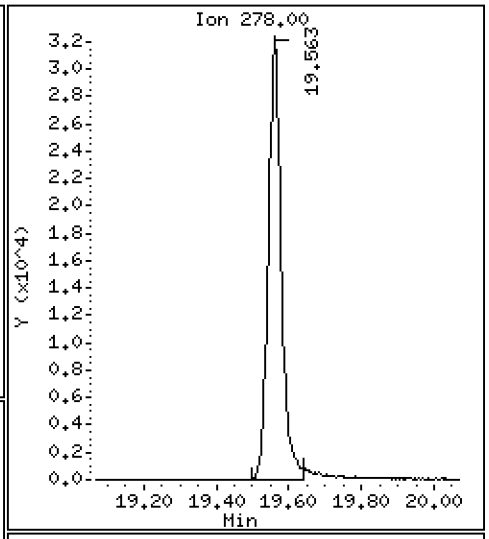
Column phase: Rxi-17sil

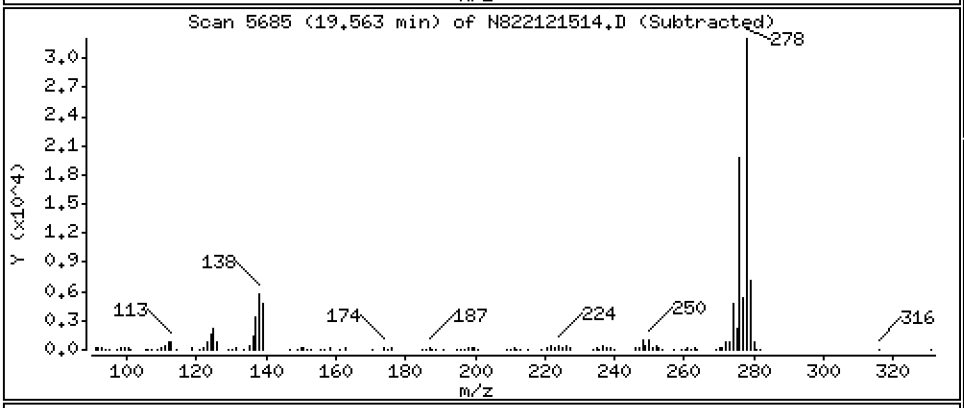
Column diameter: 0.25

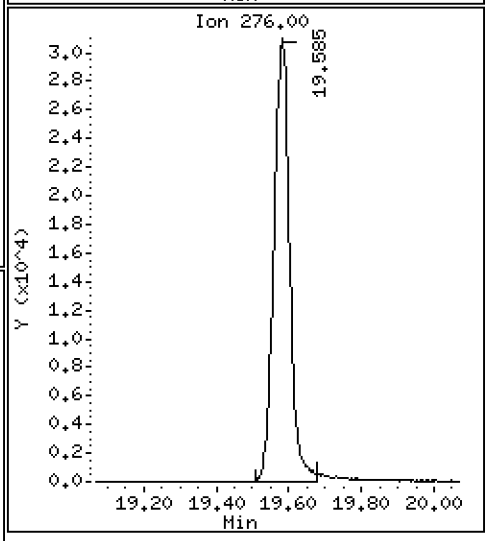
38 Dibenzo(a,h)anthracene

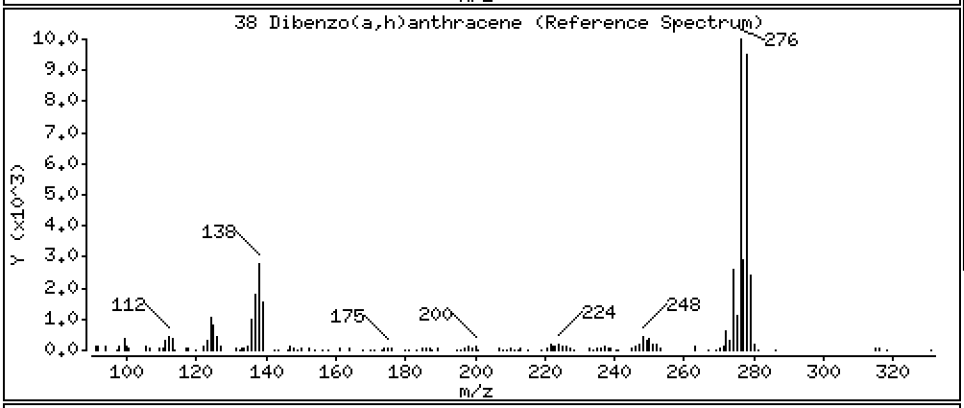
Concentration: 2.880 ug/mL

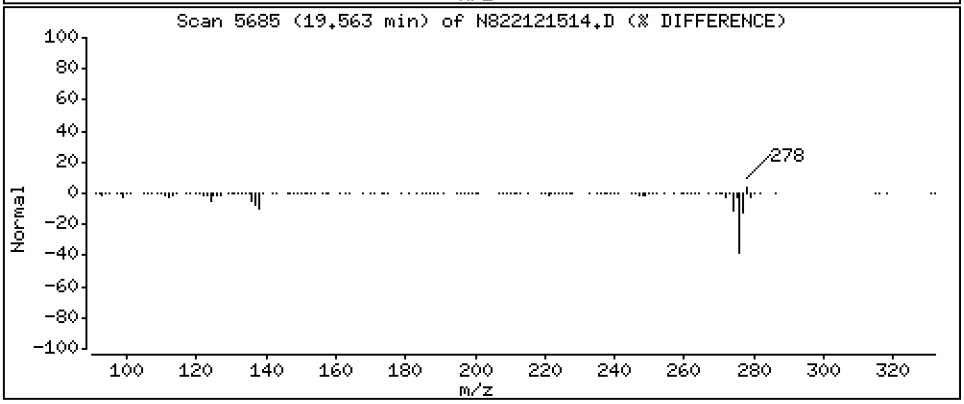












Data File: \\target\share\chem3\nt8.i\20221215.b\N822121514.D

Date : 15-DEC-2022 20:42

Client ID:

Instrument: nt8.i

Sample Info: CCV221215

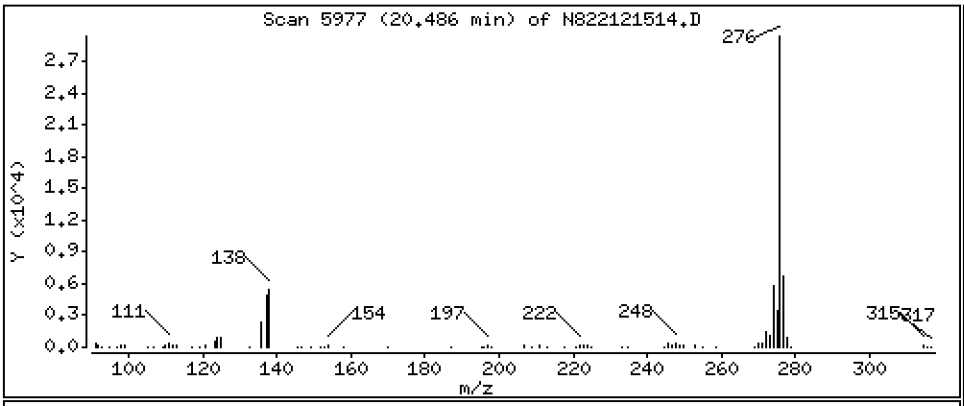
Operator: JZ

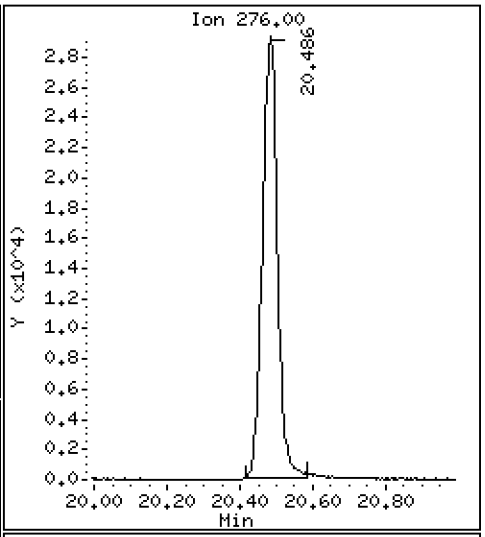
Column phase: Rxi-17sil

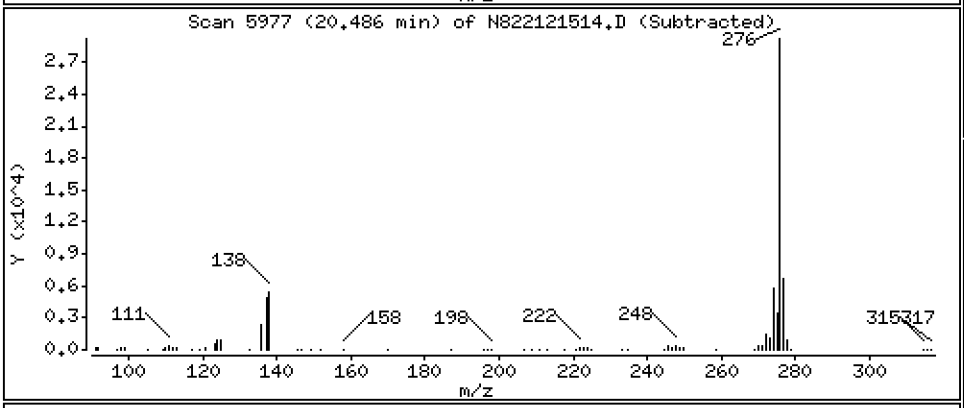
Column diameter: 0.25

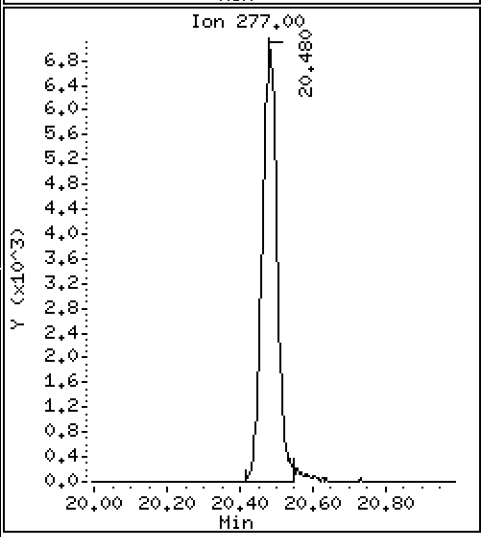
39 Benzo(g,h,i)perylene

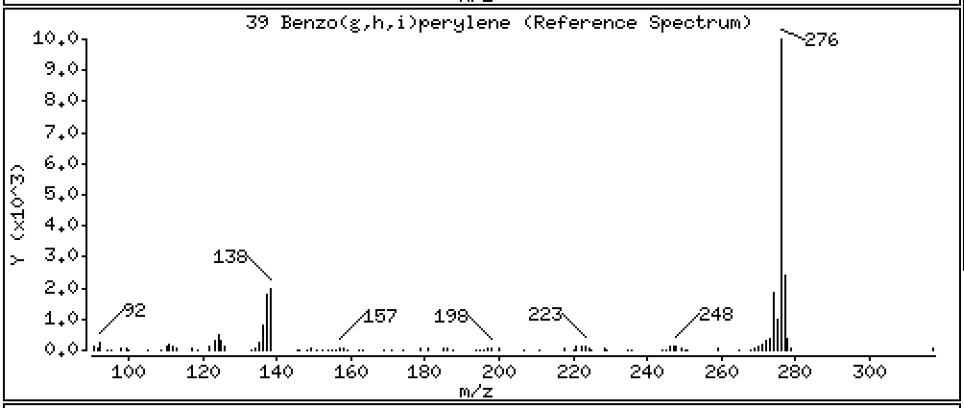
Concentration: 2.791 ug/mL

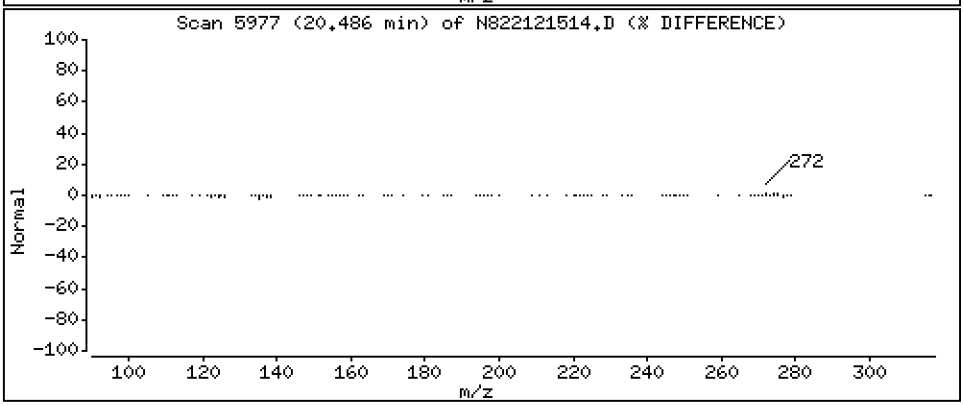












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt8.i\20221215.b\N822121514.D
Lab Smp Id: SKL0227-CCV1
Inj Date : 15-DEC-2022 20:42
Operator : JZ Inst ID: nt8.i
Smp Info : CCV221215
Misc Info : 22-
Comment   : 1ul Injection
Method   : \\target\share\chem3\nt8.i\20221215.b\FSIMPNA220411.m
Meth Date : 16-Dec-2022 15:49 jianqing Quant Type: ISTD
Cal Date : 12-APR-2022 15:49 Cal File: NT822041208.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PNAXMDL.sub
Target Version: 4.14
Processing Host: JIANQING-202105

								CONCENTRATIONS	
		QUANT SIG						ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE		(ug/mL)	(ug/mL)
*	1 Naphthalene-d8	136	4.514	4.521	(1.000)	43866		2.00000	
	2 Naphthalene	128	4.543	4.549	(1.006)	59427		2.67364	2.674
$	3 2-Methylnaphthalene-d10	152	5.242	5.248	(1.161)	48457		2.92884	2.929
	4 2-Methylnaphthalene	141	5.289	5.295	(1.172)	35552		2.81105	2.811
	5 1-methylnaphthalene	141	5.482	5.488	(1.214)	35103		2.83823	2.838
	9 Acenaphthylene	152	6.671	6.677	(0.984)	63330		2.73406	2.734
*	10 Acenaphthene-d10	164	6.778	6.785	(1.000)	26809		2.00000	
	11 Acenaphthene	153	6.829	6.835	(1.007)	43048		2.80092	2.801
	12 Dibenzofuran	168	6.981	6.987	(1.030)	58768		2.72549	2.725
	14 Fluorene	166	7.452	7.458	(1.099)	48928		2.82061	2.821
*	15 Phenanthrene-d10	188	8.799	8.805	(1.000)	53273		2.00000	
	16 Phenanthrene	178	8.834	8.840	(1.004)	70926		2.50970	2.510
	17 Anthracene	178	8.875	8.881	(1.009)	72152		2.66554	2.666
	22 Fluoranthene	202	10.503	10.512	(1.194)	83461		2.69911	2.699
$	21 Fluoranthene-d10	212	10.471	10.478	(1.190)	101519		2.88185	2.882
	23 Pyrene	202	10.977	10.984	(0.817)	87774		2.41269	2.413
	24 Benzo(a)anthracene	228	13.327	13.333	(0.991)	89232		2.62284	2.623
*	25 Chrysene-d12	240	13.444	13.453	(1.000)	53826		2.00000	
	27 Chrysene	228	13.516	13.526	(1.005)	84533		2.60041	2.600
	28 Benzo(b)fluoranthene	252	15.973	15.986	(0.927)	88387		2.16264	2.163
	29 Benzo(k)fluoranthene	252	16.033	16.043	(0.931)	84336		2.22447	2.224
	30 Benzo(j)fluoranthene	252	16.109	16.119	(0.935)	84027		2.41250	2.412
	31 Total Benzofluoranthenes	252	15.973	15.986	(0.927)	254175		6.74285	6.743(M)
	32 Benzo(a)pyrene	252	16.998	17.004	(0.987)	81293		2.40964	2.410
*	33 Perylene-d12	264	17.222	17.229	(1.000)	57563		2.00000	
	35 Perylene	252	17.295	17.308	(1.004)	82481		2.44149	2.441
$	36 Dibenzo(a,h)anthracene-d14	292	19.467	19.470	(1.130)	74218		3.00131	3.001
	37 Indeno(1,2,3-cd)pyrene	276	19.584	19.587	(1.137)	94908		2.86831	2.868
	38 Dibenzo(a,h)anthracene	278	19.562	19.568	(1.136)	82218		2.88036	2.880
	39 Benzo(g,h,i)perylene	276	20.485	20.492	(1.189)	85895		2.79063	2.791

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt8.i
Lab File ID: N822121514.D
Lab Smp Id: SKL0227-CCV1
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: \\target\share\chem3\nt8.i\20221215.b\FSIMPNA220411.m
Misc Info: 22-

Calibration Date: 15-DEC-2022
Calibration Time: 10:02
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	49492	24746	98984	43866	-11.37
10 Acenaphthene-d10	30076	15038	60152	26809	-10.86
15 Phenanthrene-d10	58825	29413	117650	53273	-9.44
25 Chrysene-d12	58593	29297	117186	53826	-8.14
33 Perylene-d12	63012	31506	126024	57563	-8.65

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	4.52	4.02	5.02	4.51	-0.14
10 Acenaphthene-d10	6.79	6.29	7.29	6.78	-0.09
15 Phenanthrene-d10	8.81	8.31	9.31	8.80	-0.07
25 Chrysene-d12	13.45	12.95	13.95	13.44	-0.07
33 Perylene-d12	17.23	16.73	17.73	17.22	-0.04

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

REVIEW SUMMARY FOR FILE - N822121514.D

Lab ID: SKL0227-CCV1
nt8.i, 20221215.b\FSIMPNA220411.m,   15-DEC-2022 20:42

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

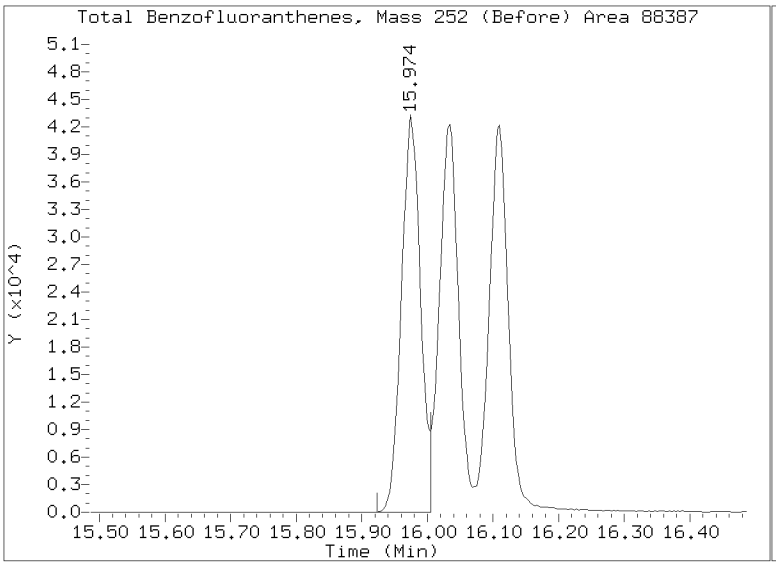
No RRT check performed

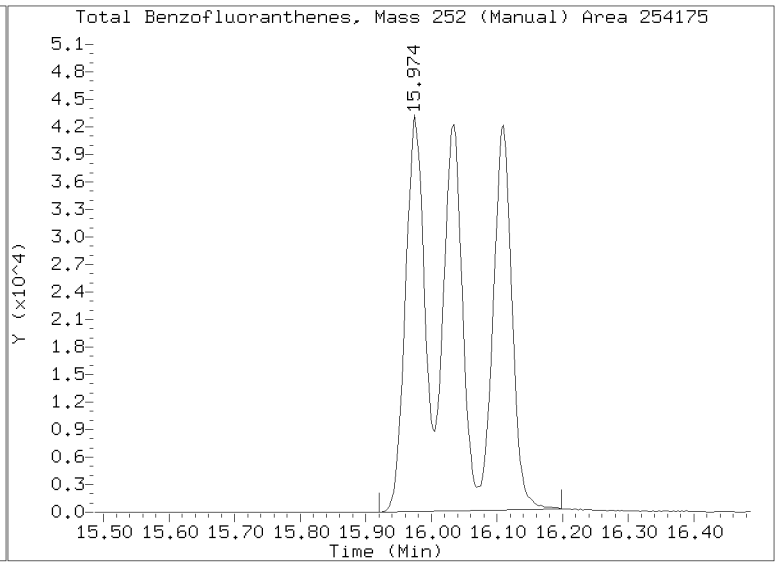
On Column LOD for nt8.i, 20221215.b\FSIMPNA220411.m, PNAXMDL.sub = 0.0080

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt8.i/20221215.b/N822121514.D
Injection Date: 15-DEC-2022 20:42
Lab ID:SKL0227-CCV1 Client ID:
Report Date: 12/16/2022 16:17





Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKD0159	Instrument:	NT8
		Calibration:	FD00034

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MS Tune	SKD0159-TUN1	NT822041201.D	NA	04/12/22 12:48
Initial Cal Blank	SKD0159-ICB1	NT822041202.D	NA	04/12/22 13:06
8270 SIM PNA 0.1	SKD0159-CAL1	NT822041203.D	NA	04/12/22 13:33
8270 SIM PNA 0.5	SKD0159-CAL2	NT822041204.D	NA	04/12/22 14:00
8270 SIM PNA 1.0	SKD0159-CAL3	NT822041205.D	NA	04/12/22 14:27
8270 SIM PNA 2.5	SKD0159-CAL4	NT822041206.D	NA	04/12/22 14:55
8270 SIM PNA 5	SKD0159-CAL5	NT822041207.D	NA	04/12/22 15:22
8270 SIM PNA 10	SKD0159-CAL6	NT822041208.D	NA	04/12/22 15:49
8270 SIM PNA SCV	SKD0159-SCV1	NT822041209.D	NA	04/12/22 16:16

Printed: 4/19/2022 2:35:19PM

ANALYSIS SEQUENCE

SKD0159

Instrument: NT8 Element Column ID: J006458
Calibration ID: FD00034 Tune File: 220110.U
EM Voltage: 1494

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SKD0159-TUN1	MS Tune	QC		1	J006358		
SKD0159-ICB1	Initial Cal Blank	QC		2		K003356	
SKD0159-CAL1	8270 SIM PNA 0.1	QC		3	K003357	K003356	
SKD0159-CAL2	8270 SIM PNA 0.5	QC		4	K003358	K003356	
SKD0159-CAL3	8270 SIM PNA 1.0	QC		5	K003359	K003356	
SKD0159-CAL4	8270 SIM PNA 2.5	QC		6	K003360	K003356	
SKD0159-CAL5	8270 SIM PNA 5	QC		7	K003361	K003356	
SKD0159-CAL6	8270 SIM PNA 10	QC		8	K003362	K003356	
SKD0159-SCV1	8270 SIM PNA SCV	QC		9	K000320	K003356	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt8.i\20220412.b

	Time	Filename	LabID	ClientId	DF									
1	1248	NT822041201.D	SKD0159-TUN1		1	|NO ISTDS FOUND||								
2	1306	NT822041202.D	SKD0159-ICB1		1	| 4.80	59516||	7.08	35527||	9.11	61889||	13.95	54184||	17.80	42531|
3	1333	NT822041203.D	SKD0159-CAL1		1	| 4.80	59329||	7.08	35567||	9.10	62049||	13.95	54285||	17.79	44666|
4	1400	NT822041204.D	SKD0159-CAL2		1	| 4.80	60074||	7.08	36200||	9.10	62856||	13.95	55368||	17.80	46179|
5	1427	NT822041205.D	SKD0159-CAL3		1	| 4.80	60316||	7.08	35623||	9.10	62701||	13.95	55911||	17.80	46496|
6	1455	NT822041206.D	SKD0159-CAL4		1	| 4.80	56136||	7.08	32604||	9.10	58288||	13.95	52801||	17.80	42745|
7	1522	NT822041207.D	SKD0159-CAL5		1	| 4.80	60787||	7.08	34192||	9.10	60000||	13.95	53717||	17.80	42910|
8	1549	NT822041208.D	SKD0159-CAL6		1	| 4.80	60812||	7.08	32477||	9.10	56946||	13.95	51361||	17.80	39041|
9	1616	NT822041209.D	SKD0159-SCV1		1	| 4.80	54442||	7.08	33053||	9.10	57165||	13.95	49400||	17.79	42338|

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt8.i\20220412.b

ARI Job No.: SKD0 Method: FSIMPNA220411.m Instrument: nt8.i Date: 12-APR-2022

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1306	NT822041202.D	SKD0159-ICB1		1	NO MANUAL INTEGRATION
1333	NT822041203.D	SKD0159-CAL1		1	Pyrene, Total Benzofluoranthenes, Dibenzo(a,h)anthracene-d14,
1400	NT822041204.D	SKD0159-CAL2		1	Pyrene, Total Benzofluoranthenes, Benzo(g,h,i)perylene, Dibenzo(a,h)anthracene-d14,
1427	NT822041205.D	SKD0159-CAL3		1	Pyrene, Total Benzofluoranthenes,
1455	NT822041206.D	SKD0159-CAL4		1	Pyrene, Total Benzofluoranthenes,
1522	NT822041207.D	SKD0159-CAL5		1	Pyrene, Total Benzofluoranthenes,
1549	NT822041208.D	SKD0159-CAL6		1	Pyrene, Total Benzofluoranthenes,
1616	NT822041209.D	SKD0159-SCV1		1	Pyrene, Total Benzofluoranthenes,

Security Status Report

Date: 19-Apr-2022 14:28

NT822041201.D	Data Locked	jianqing, 19-Apr-2022 14:28
NT822041202.D	Data Locked	jianqing, 19-Apr-2022 14:28
NT822041203.D	Data Locked	jianqing, 19-Apr-2022 14:28
NT822041204.D	Data Locked	jianqing, 19-Apr-2022 14:28
NT822041205.D	Data Locked	jianqing, 19-Apr-2022 14:28
NT822041206.D	Data Locked	jianqing, 19-Apr-2022 14:28
NT822041207.D	Data Locked	jianqing, 19-Apr-2022 14:28
NT822041208.D	Data Locked	jianqing, 19-Apr-2022 14:28
NT822041209.D	Data Locked	jianqing, 19-Apr-2022 14:28

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0227	Instrument:	NT8
		Calibration:	FD00034

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MS Tune	SKL0227-TUN1	N822121501.D	NA	12/15/22 09:42
Initial Cal Check	SKL0227-ICV1	N822121502.D	NA	12/15/22 10:02
Blank	BKL0196-BLK1	N822121504.D	Solid	12/15/22 16:14
LCS	BKL0196-BS1	N822121505.D	Solid	12/15/22 16:41
LCS Dup	BKL0196-BSD1	N822121506.D	Solid	12/15/22 17:08
Reference	BKL0196-SRM1	N822121508.D	Solid	12/15/22 18:01
LDW22-SS818	22L0136-06	N822121509.D	Solid	12/15/22 18:28
LDW22-SS818	BKL0196-MS1	N822121510.D	Solid	12/15/22 18:55
LDW22-SS818	BKL0196-MSD1	N822121511.D	Solid	12/15/22 19:22
LDW22-SS825	22L0136-13	N822121512.D	Solid	12/15/22 19:49
LDW22-SS824	22L0136-14	N822121513.D	Solid	12/15/22 20:16
Calibration Check	SKL0227-CCV1	N822121514.D	NA	12/15/22 20:42

Printed: 12/17/2022 6:32:29PM

ANALYSIS SEQUENCE

SKL0227

Instrument: NT8 Element Column ID: J006458
Calibration ID: FD00034

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	Comments
SKL0227-TUN1	MS Tune	QC		1	K004775			
SKL0227-ICV1	Initial Cal Check	QC		2	K008929	K008540		
BKL0196-BLK1	Blank	QC		3		K008540		
BKL0196-BS1	LCS	QC		4		K008540		
BKL0196-BSD1	LCS Dup	QC		5		K008540		
BKL0196-SRM1	Reference	QC		6		K008540		
22L0136-06	LDW22-SS818	8270E-SIM PAH (0.1ug/L or 5ug/kg	A 02	7		K008540		
BKL0196-MS1	Matrix Spike	QC		8		K008540		
BKL0196-MSD1	Matrix Spike Dup	QC		9		K008540		
22L0136-13	LDW22-SS825	8270E-SIM PAH (0.1ug/L or 5ug/kg	A 01	10		K008540		
22L0136-14	LDW22-SS824	8270E-SIM PAH (0.1ug/L or 5ug/kg	A 01	11		K008540		
SKL0227-CCV1	Calibration Check	QC		12	K008929	K008540		

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt8.i\20221215.b

	Time	Filename	LabID	ClientId	DF											
1	0942	N822121501.D	SKL0227-TUN1		1	NO ISTDS FOUND										
2	1002	N822121502.D	SKL0227-ICV1		1	4.52	49492	6.79	30076	8.81	58825	13.45	58593	17.23	63012	
3	1535	N822121503.D	SKL-0227-IBL		1	4.52	39846	6.78	24446	8.80	47174	13.45	46351	17.22	50368	
4	1614	N822121504.D	BKL0196-BLK1		1	4.51	45565	6.79	27263	8.81	52608	13.46	50312	17.23	49252	
5	1641	N822121505.D	BKL0196-BS1		1	4.51	46637	6.78	28083	8.80	53033	13.45	52093	17.22	49381	
6	1708	N822121506.D	BKL0196-BSD1		1	4.51	44922	6.78	27605	8.80	52363	13.44	51496	17.22	44597	
7	1735	N822121507.D	K011584		3	4.51	41105	6.78	25111	8.80	47819	13.45	46794	17.22	51376	
8	1801	N822121508.D	BKL0196-SRM1		1	4.51	42653	6.78	25712	8.80	48752	13.44	48854	17.22	43096	
9	1828	N822121509.D	22L0136-06		3	4.51	48642	6.78	30114	8.80	56479	13.44	50309	17.22	55175	
10	1855	N822121510.D	BKL0196-MS1		3	4.51	45710	6.78	28564	8.80	53670	13.45	48338	17.22	51698	
11	1922	N822121511.D	BKL0196-MSD1		3	4.51	45573	6.78	28482	8.80	53104	13.45	47924	17.22	50635	
12	1949	N822121512.D	22L0136-13		3	4.51	42765	6.78	26963	8.80	52009	13.45	45551	17.22	48746	
13	2016	N822121513.D	22L0136-14		3	4.51	45116	6.78	28704	8.80	52958	13.45	47104	17.22	50184	
14	2042	N822121514.D	SKL0227-CCV1		1	4.51	43866	6.78	26809	8.80	53273	13.44	53826	17.22	57563	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt8.i\20221215.b

ARI Job No.: SKL0 Method: FSIMPNA220411.m Instrument: nt8.i Date: 15-DEC-2022

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1002	N822121502.D	SKL0227-ICV1		1	Total Benzofluoranthenes,
1535	N822121503.D	SKL-0227-IBL		1	NO MANUAL INTEGRATION
1614	N822121504.D	BKL0196-BLK1		1	Anthracene,
1641	N822121505.D	BKL0196-BS1		1	Total Benzofluoranthenes,
1708	N822121506.D	BKL0196-BSD1		1	Total Benzofluoranthenes,
1735	N822121507.D	K011584		3	Total Benzofluorantheres,
1801	N822121508.D	BKL0196-SRM1		1	Total Benzofluoranthenes,
1828	N822121509.D	22L0136-06		3	Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene, Acenaphthene, Perylene, Benzo(a)pyrene, Benzo(g,h,i)perylene, Benzo(a)anthracene, Total Benzofluoranthenes, Dibenzo(a,h)anthracene-d14,
1855	N822121510.D	BKL0196-MS1		3	Total Benzofluoranthenes,
1922	N822121511.D	BKL0196-MSD1		3	Total Benzofluoranthenes,
1949	N822121512.D	22L0136-13		3	Dibenzo(a,h)anthracene, Benzo(a)pyrene, Benzo(g,h,i)perylene, Total Benzofluoranthenes, Dibenzo(a,h)anthracene-d14,
2016	N822121513.D	22L0136-14		3	Dibenzo(a,h)anthracene, 2-Methylnaphthalene, Indeno(1,2,3-cd)pyrene, Acenaphthene, Benzo(a)anthracene, Total Benzofluoranthenes,
2042	N822121514.D	SKL0227-CCV1		1	Total Benzofluoranthenes,

Security Status Report

Date: 17-Dec-2022 18:36

N822121501.D	Data Locked	jianqing, 17-Dec-2022 18:36
N822121502.D	Data Locked	jianqing, 17-Dec-2022 18:36
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N822121504.D	Data Locked	jianqing, 17-Dec-2022 18:36
N822121505.D	Data Locked	jianqing, 17-Dec-2022 18:36
N822121506.D	Data Locked	jianqing, 17-Dec-2022 18:36
N822121507.D	Data Locked	jianqing, 17-Dec-2022 18:36
N822121508.D	Data Locked	jianqing, 17-Dec-2022 18:36
N822121509.D	Data Locked	jianqing, 17-Dec-2022 18:36
N822121510.D	Data Locked	jianqing, 17-Dec-2022 18:36
N822121511.D	Data Locked	jianqing, 17-Dec-2022 18:36
N822121512.D	Data Locked	jianqing, 17-Dec-2022 18:36
N822121513.D	Data Locked	jianqing, 17-Dec-2022 18:36
N822121514.D	Data Locked	jianqing, 17-Dec-2022 18:36

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Extract Dilution Bench Sheet

Sequence: SKL0227
Analyst: JZ Date: 12/15/22

Sample ID	Primary Dilution				Secondary Dilution			
	Extract Volume (uL)	Diluent ID	Diluent Volume (uL)	Dilution Factor	Extract Volume (uL)	Diluent ID	Diluent Volume (uL)	Dilution Factor
22L0136-06	200	K004736	100	3				
BKL0196-MS1	200		100	3				
BKL0196-MSD1	200		100	3				
22L0136-13	200		100	3				
22L0136-14	200		100	3				

Form 12010F Version 002 03/01/2018

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG/WO:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKD0159	Instrument:	NT8
Calibration:	FD00034	Calibration Date:	04/12/2022

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKD0159-ICB1 (Water)			Lab File ID: NT822041202.D			Analyzed: 04/12/22 13:06		
2-Methylnaphthalene-d10			31 - 120		5.527167	-5.5272	N/A	
Dibenzo[a,h]anthracene-d14			10 - 125		20.1412	-20.1412	N/A	
Fluoranthene-d10			46 - 121		10.8415	-10.8415	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0227
Instrument: NT8
Calibration: FD00034
Calibration Date: 04/12/2022

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKL0227-ICV1 (Solid)			Lab File ID: N822121502.D			Analyzed: 12/15/22 10:02		
2-Methylnaphthalene-d10	2.5000	116	80 - 120	5.248	5.527167	-0.2792	N/A	
Dibenzo[a,h]anthracene-d14	2.5000	118	80 - 120	19.47	20.1412	-0.6712	N/A	
Fluoranthene-d10	2.5000	114	80 - 120	10.478	10.8415	-0.3635	N/A	
BKL0196-BLK1 (Solid)			Lab File ID: N822121504.D			Analyzed: 12/15/22 16:14		
2-Methylnaphthalene-d10	150.00	46.2	32 - 120	5.245	5.527167	-0.2822	N/A	
Dibenzo[a,h]anthracene-d14	150.00	91.0	21 - 133	19.47	20.1412	-0.6712	N/A	
Fluoranthene-d10	150.00	59.8	36 - 134	10.478	10.8415	-0.3635	N/A	
BKL0196-BS1 (Solid)			Lab File ID: N822121505.D			Analyzed: 12/15/22 16:41		
2-Methylnaphthalene-d10	150.00	47.0	32 - 120	5.238	5.527167	-0.2892	N/A	
Dibenzo[a,h]anthracene-d14	150.00	93.2	21 - 133	19.464	20.1412	-0.6772	N/A	
Fluoranthene-d10	150.00	59.7	36 - 134	10.468	10.8415	-0.3735	N/A	
BKL0196-BSD1 (Solid)			Lab File ID: N822121506.D			Analyzed: 12/15/22 17:08		
2-Methylnaphthalene-d10	150.00	52.9	32 - 120	5.238	5.527167	-0.2892	N/A	
Dibenzo[a,h]anthracene-d14	150.00	108	21 - 133	19.461	20.1412	-0.6802	N/A	
Fluoranthene-d10	150.00	64.4	36 - 134	10.471	10.8415	-0.3705	N/A	
BKL0196-SRM1 (Solid)			Lab File ID: N822121508.D			Analyzed: 12/15/22 18:01		
2-Methylnaphthalene-d10	300.00	47.0	32 - 120	5.238	5.527167	-0.2892	N/A	
Dibenzo[a,h]anthracene-d14	300.00	84.3	21 - 133	19.461	20.1412	-0.6802	N/A	
Fluoranthene-d10	300.00	54.5	36 - 134	10.468	10.8415	-0.3735	N/A	
22L0136-06 (Solid)			Lab File ID: N822121509.D			Analyzed: 12/15/22 18:28		
2-Methylnaphthalene-d10	149.74	41.4	32 - 120	5.241	5.527167	-0.2862	N/A	
Dibenzo[a,h]anthracene-d14	149.74	72.6	21 - 133	19.461	20.1412	-0.6802	N/A	
Fluoranthene-d10	149.74	50.3	36 - 134	10.475	10.8415	-0.3665	N/A	
BKL0196-MS1 (Solid)			Lab File ID: N822121510.D			Analyzed: 12/15/22 18:55		
2-Methylnaphthalene-d10	150.02	45.5	32 - 120	5.238	5.527167	-0.2892	N/A	
Dibenzo[a,h]anthracene-d14	150.02	80.7	21 - 133	19.464	20.1412	-0.6772	N/A	
Fluoranthene-d10	150.02	54.5	36 - 134	10.474	10.8415	-0.3675	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG/WO:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0227	Instrument:	NT8
Calibration:	FD00034	Calibration Date:	04/12/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BKL0196-MSD1 (Solid)			Lab File ID: N822121511.D			Analyzed: 12/15/22 19:22		
2-Methylnaphthalene-d10	150.02	50.3	32 - 120	5.238	5.527167	-0.2892	N/A	
Dibenzo[a,h]anthracene-d14	150.02	87.3	21 - 133	19.461	20.1412	-0.6802	N/A	
Fluoranthene-d10	150.02	57.3	36 - 134	10.475	10.8415	-0.3665	N/A	
22L0136-13 (Solid)			Lab File ID: N822121512.D			Analyzed: 12/15/22 19:49		
2-Methylnaphthalene-d10	149.94	47.4	32 - 120	5.238	5.527167	-0.2892	N/A	
Dibenzo[a,h]anthracene-d14	149.94	83.4	21 - 133	19.464	20.1412	-0.6772	N/A	
Fluoranthene-d10	149.94	58.8	36 - 134	10.475	10.8415	-0.3665	N/A	
22L0136-14 (Solid)			Lab File ID: N822121513.D			Analyzed: 12/15/22 20:16		
2-Methylnaphthalene-d10	368.17	46.1	32 - 120	5.238	5.527167	-0.2892	N/A	
Dibenzo[a,h]anthracene-d14	368.17	74.1	21 - 133	19.477	20.1412	-0.6642	N/A	
Fluoranthene-d10	368.17	51.8	36 - 134	10.475	10.8415	-0.3665	N/A	
SKL0227-CCV1 (Solid)			Lab File ID: N822121514.D			Analyzed: 12/15/22 20:42		
2-Methylnaphthalene-d10	2.5000	117	50 - 150	5.242	5.527167	-0.2852	N/A	
Dibenzo[a,h]anthracene-d14	2.5000	120	50 - 150	19.467	20.1412	-0.6742	N/A	
Fluoranthene-d10	2.5000	115	50 - 150	10.471	10.8415	-0.3705	N/A	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKD0159	Instrument:	NT8
		Calibration:	FD00034

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Blank (SKD0159-ICB1)		(Water)		Lab File ID: NT822041202.D				Analyzed: 04/12/22 13:06	
Naphthalene-d8	59516	4.803	56136	4.799	106	50 - 200	0.004	+/-0.50	
Acenaphthene-d10	35527	7.082	32604	7.076	109	50 - 200	0.006	+/-0.50	
Phenanthrene-d10	61889	9.106	58288	9.103	106	50 - 200	0.003	+/-0.50	
Chrysene-d12	54184	13.953	52801	13.947	103	50 - 200	0.006	+/-0.50	
Perylene-d12	42531	17.801	42745	17.795	99	50 - 200	0.006	+/-0.50	
Secondary Cal Check (SKD0159-SCV1)		(Water)		Lab File ID: NT822041209.D				Analyzed: 04/12/22 16:16	
Naphthalene-d8	54442	4.799	56136	4.799	97	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	33053	7.076	32604	7.076	101	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	57165	9.103	58288	9.103	98	50 - 200	0.000	+/-0.50	
Chrysene-d12	49400	13.947	52801	13.947	94	50 - 200	0.000	+/-0.50	
Perylene-d12	42338	17.792	42745	17.795	99	50 - 200	-0.003	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0227	Instrument:	NT8
		Calibration:	FD00034

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SKL0227-ICV1)		(Solid)		Lab File ID: N822121502.D				Analyzed: 12/15/22 10:02	
Naphthalene-d8	49492	4.521	49492	4.521	100	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	30076	6.785	30076	6.785	100	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	58825	8.805	58825	8.805	100	50 - 200	0.000	+/-0.50	
Chrysene-d12	58593	13.453	58593	13.453	100	50 - 200	0.000	+/-0.50	
Perylene-d12	63012	17.229	63012	17.229	100	50 - 200	0.000	+/-0.50	
Blank (BKL0196-BLK1)		(Solid)		Lab File ID: N822121504.D				Analyzed: 12/15/22 16:14	
Naphthalene-d8	45565	4.514	49492	4.521	92	50 - 200	-0.007	+/-0.50	
Acenaphthene-d10	27263	6.785	30076	6.785	91	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	52608	8.805	58825	8.805	89	50 - 200	0.000	+/-0.50	
Chrysene-d12	50312	13.456	58593	13.453	86	50 - 200	0.003	+/-0.50	
Perylene-d12	49252	17.232	63012	17.229	78	50 - 200	0.003	+/-0.50	
LCS (BKL0196-BS1)		(Solid)		Lab File ID: N822121505.D				Analyzed: 12/15/22 16:41	
Naphthalene-d8	46637	4.508	49492	4.521	94	50 - 200	-0.013	+/-0.50	
Acenaphthene-d10	28083	6.778	30076	6.785	93	50 - 200	-0.007	+/-0.50	
Phenanthrene-d10	53033	8.799	58825	8.805	90	50 - 200	-0.006	+/-0.50	
Chrysene-d12	52093	13.447	58593	13.453	89	50 - 200	-0.006	+/-0.50	
Perylene-d12	49381	17.222	63012	17.229	78	50 - 200	-0.007	+/-0.50	
LCS Dup (BKL0196-BSD1)		(Solid)		Lab File ID: N822121506.D				Analyzed: 12/15/22 17:08	
Naphthalene-d8	44922	4.508	49492	4.521	91	50 - 200	-0.013	+/-0.50	
Acenaphthene-d10	27605	6.778	30076	6.785	92	50 - 200	-0.007	+/-0.50	
Phenanthrene-d10	52363	8.799	58825	8.805	89	50 - 200	-0.006	+/-0.50	
Chrysene-d12	51496	13.444	58593	13.453	88	50 - 200	-0.009	+/-0.50	
Perylene-d12	44597	17.216	63012	17.229	71	50 - 200	-0.013	+/-0.50	
Reference (BKL0196-SRM1)		(Solid)		Lab File ID: N822121508.D				Analyzed: 12/15/22 18:01	
Naphthalene-d8	42653	4.508	49492	4.521	86	50 - 200	-0.013	+/-0.50	
Acenaphthene-d10	25712	6.778	30076	6.785	85	50 - 200	-0.007	+/-0.50	
Phenanthrene-d10	48752	8.799	58825	8.805	83	50 - 200	-0.006	+/-0.50	
Chrysene-d12	48854	13.444	58593	13.453	83	50 - 200	-0.009	+/-0.50	
Perylene-d12	43096	17.219	63012	17.229	68	50 - 200	-0.010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0227	Instrument:	NT8
		Calibration:	FD00034

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW22-SS818 (22L0136-06)		(Solid)		Lab File ID: N822121509.D			Analyzed: 12/15/22 18:28		
Naphthalene-d8	48642	4.511	49492	4.521	98	50 - 200	-0.010	+/-0.50	
Acenaphthene-d10	30114	6.778	30076	6.785	100	50 - 200	-0.007	+/-0.50	
Phenanthrene-d10	56479	8.799	58825	8.805	96	50 - 200	-0.006	+/-0.50	
Chrysene-d12	50309	13.444	58593	13.453	86	50 - 200	-0.009	+/-0.50	
Perylene-d12	55175	17.222	63012	17.229	88	50 - 200	-0.007	+/-0.50	
Matrix Spike (BKL0196-MS1)		(Solid)		Lab File ID: N822121510.D			Analyzed: 12/15/22 18:55		
Naphthalene-d8	45710	4.511	49492	4.521	92	50 - 200	-0.010	+/-0.50	
Acenaphthene-d10	28564	6.778	30076	6.785	95	50 - 200	-0.007	+/-0.50	
Phenanthrene-d10	53670	8.799	58825	8.805	91	50 - 200	-0.006	+/-0.50	
Chrysene-d12	48338	13.447	58593	13.453	82	50 - 200	-0.006	+/-0.50	
Perylene-d12	51698	17.219	63012	17.229	82	50 - 200	-0.010	+/-0.50	
Matrix Spike Dup (BKL0196-MSD1)		(Solid)		Lab File ID: N822121511.D			Analyzed: 12/15/22 19:22		
Naphthalene-d8	45573	4.511	49492	4.521	92	50 - 200	-0.010	+/-0.50	
Acenaphthene-d10	28482	6.778	30076	6.785	95	50 - 200	-0.007	+/-0.50	
Phenanthrene-d10	53104	8.802	58825	8.805	90	50 - 200	-0.003	+/-0.50	
Chrysene-d12	47924	13.447	58593	13.453	82	50 - 200	-0.006	+/-0.50	
Perylene-d12	50635	17.222	63012	17.229	80	50 - 200	-0.007	+/-0.50	
LDW22-SS825 (22L0136-13)		(Solid)		Lab File ID: N822121512.D			Analyzed: 12/15/22 19:49		
Naphthalene-d8	42765	4.511	49492	4.521	86	50 - 200	-0.010	+/-0.50	
Acenaphthene-d10	26963	6.778	30076	6.785	90	50 - 200	-0.007	+/-0.50	
Phenanthrene-d10	52009	8.799	58825	8.805	88	50 - 200	-0.006	+/-0.50	
Chrysene-d12	45551	13.447	58593	13.453	78	50 - 200	-0.006	+/-0.50	
Perylene-d12	48746	17.222	63012	17.229	77	50 - 200	-0.007	+/-0.50	
LDW22-SS824 (22L0136-14)		(Solid)		Lab File ID: N822121513.D			Analyzed: 12/15/22 20:16		
Naphthalene-d8	45116	4.511	49492	4.521	91	50 - 200	-0.010	+/-0.50	
Acenaphthene-d10	28704	6.778	30076	6.785	95	50 - 200	-0.007	+/-0.50	
Phenanthrene-d10	52958	8.799	58825	8.805	90	50 - 200	-0.006	+/-0.50	
Chrysene-d12	47104	13.45	58593	13.453	80	50 - 200	-0.003	+/-0.50	
Perylene-d12	50184	17.222	63012	17.229	80	50 - 200	-0.007	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0227	Instrument:	NT8
		Calibration:	FD00034

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (SKL0227-CCV1)		(Water)		Lab File ID: N822121514.D				Analyzed: 12/15/22 20:42	
Naphthalene-d8	43866	4.514	49492	4.521	89	50 - 200	-0.007	+/-0.50	
Acenaphthene-d10	26809	6.778	30076	6.785	89	50 - 200	-0.007	+/-0.50	
Phenanthrene-d10	53273	8.799	58825	8.805	91	50 - 200	-0.006	+/-0.50	
Chrysene-d12	53826	13.444	58593	13.453	92	50 - 200	-0.009	+/-0.50	
Perylene-d12	57563	17.222	63012	17.229	91	50 - 200	-0.007	+/-0.50	

HOLDING TIME SUMMARY

Analysis: EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-SS818 22L0136-06	12/06/22 11:24	12/06/22 16:40	12/09/22 14:08	3	365	12/15/22 18:28	6	40	
LDW22-SS825 22L0136-13	12/06/22 14:28	12/06/22 16:40	12/09/22 14:08	2	365	12/15/22 19:49	6	40	
LDW22-SS824 22L0136-14	12/06/22 14:45	12/06/22 16:40	12/09/22 14:08	2	365	12/15/22 20:16	6	40	
Matrix Spike BKL0196-MS1	12/06/22 11:24	12/06/22 16:40	12/09/22 14:08	3	365	12/15/22 18:55	6	40	
Matrix Spike Dup BKL0196-MSD1	12/06/22 11:24	12/06/22 16:40	12/09/22 14:08	3	365	12/15/22 19:22	6	40	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Instrument: NT8

Analyte	MDL	RL	Units
Naphthalene	1.28	5.00	ug/kg
2-Methylnaphthalene	1.10	5.00	ug/kg
Acenaphthylene	1.08	5.00	ug/kg
Acenaphthene	0.57	5.00	ug/kg
Fluorene	0.63	5.00	ug/kg
Phenanthrene	0.72	5.00	ug/kg
Anthracene	0.87	5.00	ug/kg
Fluoranthene	0.47	5.00	ug/kg
Pyrene	0.63	5.00	ug/kg
Benzo(a)anthracene	0.82	5.00	ug/kg
Chrysene	1.05	5.00	ug/kg
Benzo(b)fluoranthene	1.37	5.00	ug/kg
Benzo(k)fluoranthene	0.76	5.00	ug/kg
Benzo(a)pyrene	0.61	5.00	ug/kg
Indeno(1,2,3-cd)pyrene	1.05	5.00	ug/kg
Dibenzo(a,h)anthracene	0.89	5.00	ug/kg
Benzo(g,h,i)perylene	1.07	5.00	ug/kg

I-8227

Certificate of Analysis

SIGMA-ALDRICH

Product Name	Pentachlorophenol, 97%
Product Number	P2604
Product Brand	ALDRICH
CAS Number	87-86-5
Molecular Formula	C_6Cl_5OH
Molecular Weight	266.34

TEST	SPECIFICATION	LOT 07119HO RESULTS
APPEARANCE	WHITE TO OFF-WHITE OR LIGHT BLUE POWDER	OFF-WHITE POWDER
INFRARED SPECTRUM	CONFORMS TO STRUCTURE.	CONFORMS TO STRUCTURE AND STANDARD
TITRATION	97.5% - 102.5% (WITH AGNO3 AFTER OXYGEN	100.5 % (WITH AGNO3 AFTER OXYGEN COMBUSTION)
GAS LIQUID CHROMATOGRAPHY	97.5% (MINIMUM)	99.9 %
SOLUBILITY		100 MG/ML, 95% ETOH: VERY HAZY, FAINT YELLOW SOLUTION
QUALITY CONTROL ACCEPTANCE DATE		JUNE 2001

Barbara Rajzer

Barbara Rajzer, Supervisor
Quality Control
Milwaukee, Wisconsin USA

Cambridge Isotope Laboratories, Inc.

50 Frontage Road, Andover, MA 01810-5413 USA
800.322.1174 (N.AMERICA) 978.749.8000 (INTERNATIONAL)
www.isotope.com

CERTIFICATE OF ANALYSIS

Product Name: DIBENZ[A,H]ANTHRACENE
(Isotopic Label & Enrichment Specification) (D14, 97%)

Lot Number: PR-14764/09163DA2

Catalog Number: DLM-677-0

I295

Product Information

Chemical Purity Specification:	≥ 98%
Labeled CAS Number:	NA
Unlabeled CAS Number:	53-70-3
Molecular Weight:	292.5
Chemical Formula:	C22D14
Storage:	Store at room temperature away from light and moisture.
Stability:	Stable if stored under recommended conditions.

Certification

Cambridge Isotope Laboratories, Inc. guarantees that this material meets or exceeds the specifications stated. Absolute identity as well as chemical and isotopic purities are assured by the use of unambiguous synthetic routes and multiple chemical analyses whenever possible.

Approved by: Deborah E. Costa

Deborah E. Costa, Quality Assurance

Quality Control Tests and Results

GC/MS for Chemical Purity	99.3%
GC/MS for Isotopic Enrichment	97.4%
Melting Point Range Determination	263-265°C
1H NMR for Chemical Purity	Pass

E006466

SVOA-d14-Dibenz(a,h)anthracene-NEAT
Solvent / Lot: NA
Prep: 11/9/2016 by VS
Exp: 5/8/2030
Location:

Cambridge Isotope Laboratories, Inc.

Certificate of Analysis

Product Name: DIBENZ[A,H]ANTHRACENE (D14, 98%)
(Isotopic Label & Enrichment Specification)

Lot Number: PR-28018

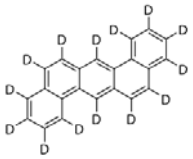
Catalog Number: DLM-677-0

G010436
DIBENZ[A,H]ANTHRACENE D14
Expires 2/28/2079
Prepared By Joshua Rains 11/9/2018

Product Information

Chemical Purity Specification: ≥ 98%

MW*: 292.43
** For isotopically labeled compounds, MW listed is for the fully enriched product.*



Labeled CAS Number: 13250-98-1

Unlabeled CAS Number: 53-70-3

Chemical Formula: C22D14

Storage: Store at room temperature away from light and moisture.

Certification

Cambridge Isotope Laboratories, Inc. guarantees that this material meets or exceeds the specifications stated. Absolute identity as well as chemical and isotopic purities are assured by the use of unambiguous synthetic routes and multiple chemical analyses whenever possible. Results are representative of QC testing at time of release from Quality Control unless otherwise stated.

The retest date for this chemical has been designated based on CIL's experience in working with chemical standards for over 30 years, and includes review of actual analytical results and relevant literature references. The retest date is valid only for unopened vials or ampoules that have been stored as recommended.

Approved by: Sashi Sivendran-Basak

Sashi Sivendran-Basak, Ph.D., Quality Review

Quality Control Tests and Results

1H NMR for Chemical Purity	Pass
1H NMR for Isotopic Enrichment	99.6%
2H NMR for Chemical Purity	Pass
GC/FID for Chemical Purity	99.3%
GC/MS for Identification	Conforms

(continued on next page)

Product Name: DIBENZ[A,H]ANTHRACENE
(Isotopic Label & Enrichment Specification) (D14, 98%)

Lot Number: PR-28018

Catalog Number: DLM-677-0

Quality Control Tests and Results (continued)

GC/MS for Isotopic Enrichment	99.3%
Melting Point Range Determination	257-267°C

Additional Testing Information:

Retest/Review Date: 02/28/27

660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

2-Chloronaphthalene

CATALOG NUMBER	N-10323-100MG
LOT NUMBER	10816400
DATE CERTIFIED	05/22/18
EXPIRATION DATE	05/31/24
CAS NUMBER	91-58-7
MOLECULAR FORMULA	C10H7Cl
MOLECULAR WEIGHT	162.62
STORAGE	Store at room temperature (20 - 25 °C).
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.

I010152
2-Chloronaphthalene NEAT
Expires 12/31/2079
Prepared By Joshua Rains 10/29/2020

Analytical Test	Value
% PURITY (GC/FID)	99.5

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:

Mary Beth O'Donnell
CSM/TC

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015

PJLA Reference Material Producer
PJLA Testing

COA Form
Revision 3 (3/2015)

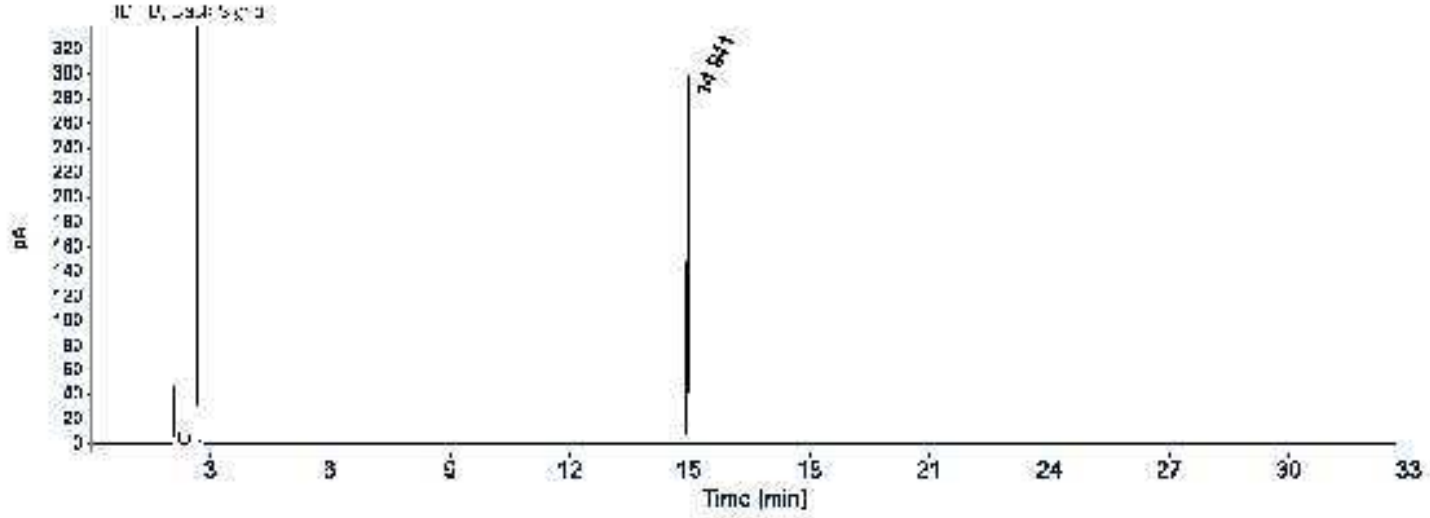
660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\Chem32\1\Data\2018 Data\0518\2-Chloronaphtthalene.D
Sample name: 2-Chloronaphthalene

Instrument: GC3
Injection date: 5/22/2018 1:12:52 PM
Acq. method: REAR_SCREEN.M
Location: 209
Injection volume: 1.0uL
Col Type: pn# 7HG-G006-17-C **Diameter** 250.000 **Length** 30.000



Signal: FID1 B, Back Signal

RT [min]	Type	Width [min]	Area	Height	Area%
14.941	BB	0.0410	808.8124	308.5675	100.0000
		Sum	808.8124		

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 33913 **Lot No.:** A0168492

Description : SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2026 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

J005205
SOMO 1.0 SIM DMC
Expires 12/31/2026
Prepared By Jianqing Zhou 5/18/2021

C E R T I F I E D V A L U E S

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Methylnaphthalene-d10		2,001.6 µg/mL	+/- 11.7465	µg/mL	Gravimetric
	CAS # 7297-45-2	(Lot EF-135)		+/- 90.1674	µg/mL	Unstressed
	Purity 96%			+/- 100.0489	µg/mL	Stressed
2	Fluoranthene-d10		2,008.0 µg/mL	+/- 11.7841	µg/mL	Gravimetric
	CAS # 93951-69-0	(Lot PR-20668)		+/- 90.4557	µg/mL	Unstressed
	Purity 99%			+/- 100.3688	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

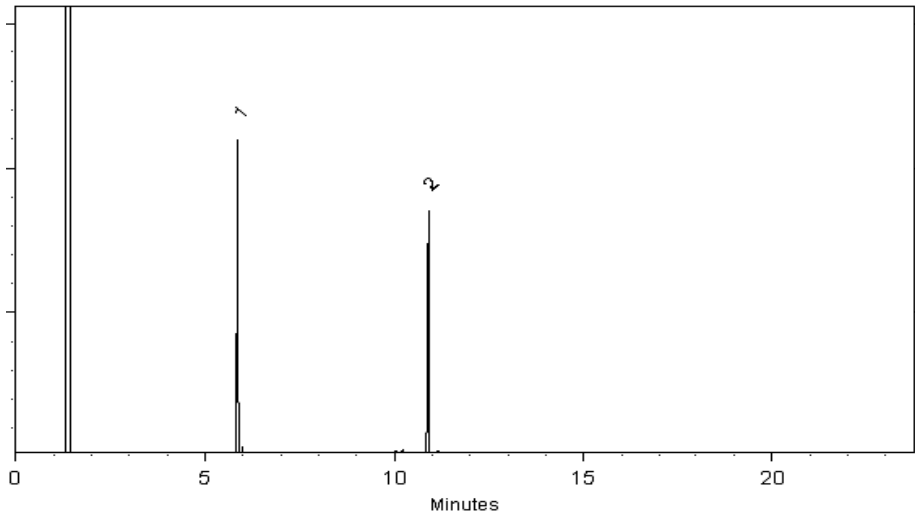
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 26-Jan-2021 **Balance:** B345965662

Alexis Shelow - Operations Tech I

Date Passed: 27-Jan-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Certificate of Analysis

Phenova Certified Reference Materials are sold by Phenomenex.
411 Madrid Ave., Torrance, CA 90501 USA ■ Tel: 310-212-0555 ■ Fax: 310-328-7768 ■ info@phenomenex.com
Access your MSDS and digital C of A at **www.phenomenex.com/mysupport. Re-order at www.phenomenex.com/standards**

Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.:	AL0-101291	**Lot Number:**	CL10999
Description:	GC/MS Tuning Mix	**Certification Date:**	May 9, 2014
Storage:	4 °C	**Expiration Date:**	December 31, 2023
Provided As:	1 mL in 2 mL Ampoule in Methylene chloride	**Revision Date:**	June 19, 2015

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty (%)
Benzidine	92-87-5	1000	± 4.575%
Decafluorotriphenylphosphine (DFTPP)	5074-71-5	1000	± 2.420%
4,4'-DDT	50-29-3	1000	± 2.772%
Pentachlorophenol	87-86-5	1000	± 2.616%

J006111
GC/MS Tune solution-1000ug/ml
Expires 12/31/2023
Prepared By Van Spohn 6/9/2021

ACCREDITED
Reference Material Producer
Certificate No. 2427.02

phenova® Certified Reference Materials

Manufactured by Phenova, Inc.

Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ilac-MRA ACCREDITED
Chemical Testing Laboratory
Certificate No. 2427.03

IL11110613_us

Certificate of Analysis

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Access your MSDS and digital C of A at **www.phenomenex.com/mysupport. Re-order at www.phenomenex.com/standards**

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO Guide 34[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.

4. Instruction: Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at www.phenomenex.com/mysupport.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC Guide 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

   $$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC Guide 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC Guide 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.

12. Period of Validity: The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.
[3] ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC Guide 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

CERTIFIED WEIGHT REPORT

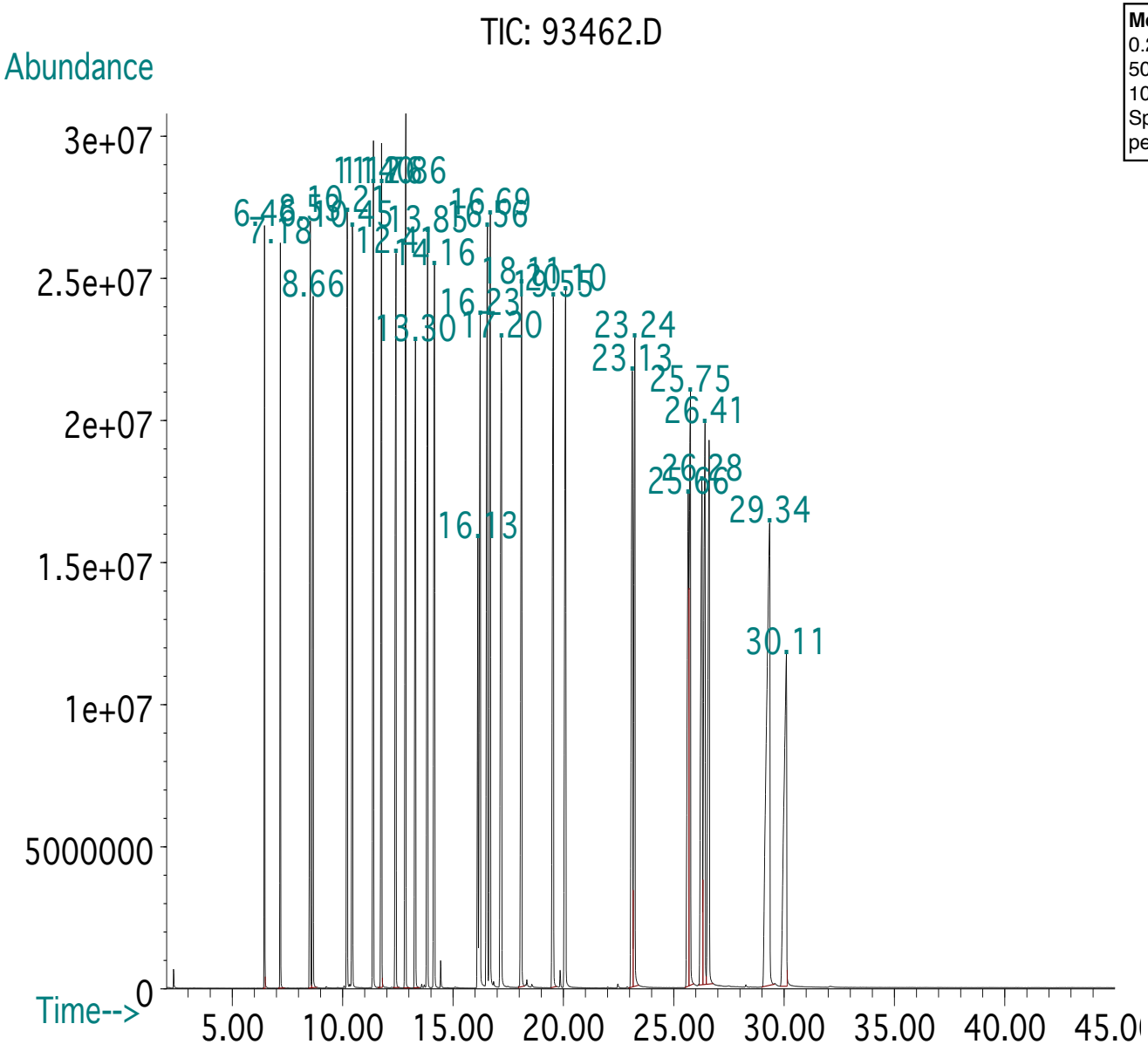
Part Number:	**93462**	**Solvent(s):**	**Lot#**	
Lot Number:	041321	Methylene chloride	105345	
Description:	PAH Standard 30 components			
Expiration Date:	041326			
Recommended Storage:	Refrigerate (4 ºC)			
Nominal Concentration (µg/mL):	1000			
NIST Test ID#:	6UTB	5E-05	Balance Uncertainty	
Volume(s) shown below were combined and diluted to (mL):	20.0	0.003	Flask Uncertainty	

		041321
Formulated By:	Prashant Chauhan	DATE
		041321
Reviewed By:	Pedro L. Rentas	DATE

	Compound	Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Initial Conc.(ug/mL)	Final Conc.(ug/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acenaphthene	10007	042420	0.50	10.00	0.042	2001.2	1000.0	9.4	83-32-9	N/A	ipr-rat 600mg/kg
2.	Acenaphthylene	10007	042420	0.50	10.00	0.042	2000.2	999.5	9.4	208-96-8	N/A	N/A
3.	Anthracene	10007	042420	0.50	10.00	0.042	2000.3	999.6	9.3	120-12-7	0.2mg/m3 (8H)	ipr-mus 430mg/kg
4.	Benzo(a)anthracene	10007	042420	0.50	10.00	0.042	2001.3	1000.1	9.4	56-55-3	N/A	N/A
5.	Benzo(a)pyrene	10007	042420	0.50	10.00	0.042	2000.0	999.4	9.3	50-32-8	0.2mg/m3 (8H)	scu-rat 50mg/kg
6.	Benzo(b)fluoranthene	10007	042420	0.50	10.00	0.042	2000.9	999.9	9.3	205-99-2	N/A	N/A
7.	Benzo(k)fluoranthene	10007	042420	0.50	10.00	0.042	2001.2	1000.0	9.4	207-08-9	N/A	N/A
8.	Benzo(g,h,i)perylene	10007	042420	0.50	10.00	0.042	2000.0	999.4	9.3	191-24-2	N/A	N/A
9.	Carbazole	10007	042420	0.50	10.00	0.042	2000.3	999.6	9.4	86-74-8	N/A	ipr-mus 200mg/kg
10.	Chrysene	10007	042420	0.50	10.00	0.042	2000.8	999.8	9.4	218-01-9	0.2mg/m3	N/A
11.	Dibenzo(a,h)anthracene	10007	042420	0.50	10.00	0.042	2000.8	999.8	9.4	53-70-3	0.2mg/m3	N/A
12.	Fluoranthene	10007	042420	0.50	10.00	0.042	2000.3	999.6	9.4	206-44-0	N/A	orl-rat 2000mg/kg
13.	Fluorene	10007	042420	0.50	10.00	0.042	2000.9	999.9	9.4	86-73-7	N/A	ipr-mus 2 g/kg
14.	Indeno(1,2,3-cd)pyrene	10007	042420	0.50	10.00	0.042	2000.1	999.5	9.3	193-39-5	N/A	N/A
15.	Naphthalene	10007	042420	0.50	10.00	0.042	2000.9	999.9	9.3	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
16.	Phenanthrene	10007	042420	0.50	10.00	0.042	2000.9	999.9	9.4	85-01-8	0.2mg/m3/8H	orl-mus 700mg/kg
17.	Pyrene	10007	042420	0.50	10.00	0.042	2001.0	999.9	9.4	129-00-0	0.2mg/m3/8H	orl-rat 2700mg/kg
18.	Benzo(e)pyrene	94851	021119	0.50	10.00	0.042	2001.6	1000.2	9.4	192-97-2	N/A	N/A
19.	Biphenyl	94851	021119	0.50	10.00	0.042	2003.6	1001.2	9.4	92-52-4	0.2 ppm(1mg/m3/8H)	orl-rat 2400mg/kg
20.	Decalin (49% cis, 51% trans)	94851	021119	0.50	10.00	0.042	2004.1	1001.4	9.4	91-17-8	N/A	N/A
21.	Dibenzofuran	94851	021119	0.50	10.00	0.042	2000.9	999.9	9.4	132-64-9	N/A	N/A
22.	Dibenzothiophene	94851	021119	0.50	10.00	0.042	2002.7	1000.7	9.4	132-65-0	N/A	orl-mus 470 mg/kg
23.	2,6-Dimethylnaphthalene	94851	021119	0.50	10.00	0.042	2000.7	999.8	9.4	581-42-0	N/A	N/A
24.	1-Methylnaphthalene	94851	021119	0.50	10.00	0.042	2001.0	999.9	9.4	90-12-0	N/A	orl-rat 1840mg/kg
25.	2-Methylnaphthalene	94851	021119	0.50	10.00	0.042	2001.6	1000.2	9.4	91-57-6	N/A	orl-rat 1630mg/kg
26.	1-Methylphenanthrene	94851	021119	0.50	10.00	0.042	2003.3	1001.1	13.2	832-69-9	N/A	N/A
27.	Pentachlorophenol	94851	021119	0.50	10.00	0.042	2003.0	1000.9	9.4	87-86-5	0.5mg/m3/8H (skin)	orl-rat 27mg/kg
28.	Perylene	94851	021119	0.50	10.00	0.042	2003.3	1001.0	9.4	198-55-0	N/A	N/A
29.	Thianaphthene	94851	021119	0.50	10.00	0.042	2000.3	999.6	9.4	95-15-8	N/A	N/A
30.	2,3,5-Trimethylnaphthalene	94851	021119	0.50	10.00	0.042	2003.3	1001.0	9.5	2245-38-7	N/A	N/A

- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).**
- **Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).**

J006462
SVOA PAH STD-RMP-1000ug/ml
Expires 4/13/2026
Prepared By Joshua Rains 6/18/2021



Method GC8MSD-2Long: Column:SPB-5 (30m X 0.25mm ID X 0.25μm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (14min.), Rate = 10°C/min., Injector B= 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Gina McLane.

Retention Time (min.)	
Decahydronaphthalene (Decalin) (isomer)	6.46
Decahydronaphthalene (Decalin) (isomer)	7.18
Naphthalene	8.53
Thianaphthene	8.66
2-Methylnaphthalene	10.21
1-Methylnaphthalene	10.45
Biphenyl	11.4
2,6-Dimethylnaphthalene	11.76
Acenaphthylene	12.41
Acenaphthene	12.86
Dibenzofuran	13.3
2,3,5-Trimethylnaphthalene	13.85
Fluorene	14.16
Pentachlorophenol	16.13
Dibenzothiophene	16.23
Phenanthrene	16.56
Anthracene	16.69
Carbazole	17.2
1-Methylphenanthrene	18.11
Fluoranthene	19.55
Pyrene	20.1
Benzo(a)anthracene	23.13
Chrysene	23.24
Benzo(b)fluoranthene	25.66
Benzo(k)fluoranthene	25.75
Perylene	26.28
Benzo(a)pyrene	26.41
Benzo(e)pyrene	26.61
Indeno(1,2,3-cd)pyrene	29.34
Dibenzo(a,h)anthracene	29.34
Benzo(g,h,i)perylene	30.11

Certificate of Analysis - Certified Reference Material

PAHs by HPLC

Product no.: SQC017-40G
Lot no.: LRAC9745
Expiry Date: April 2024
Manufacturing Date: April 2021
Storage: REFRIGERATE
Solvent/Matrix: SOIL
Certificate version: LRAC9745.01 (*Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

Certified Values:

Analyte	*Units*	*Certified Value*
Dibenzo(a,h)anthracene	µg/Kg	177 ± 21
Acenaphthylene	µg/Kg	609 ± 49
Anthracene	µg/Kg	239 ± 22
Benzo(a)anthracene	µg/Kg	109 ± 8
Benzo(a)pyrene	µg/Kg	65.5 ± 5.2
Benzo(b)fluoranthene	µg/Kg	295 ± 20
Benzo(g,h,i)perylene	µg/Kg	176 ± 17
Naphthalene	µg/Kg	566 ± 47
Chrysene	µg/Kg	210 ± 19
Benzo(b+k)fluoranthene	µg/Kg	662 ± 81
Fluoranthene	µg/Kg	273 ± 17
Fluorene	µg/Kg	326 ± 20
Indeno(1,2,3-cd) pyrene	µg/Kg	208 ± 23
Phenanthrene	µg/Kg	220 ± 13
Pyrene	µg/Kg	380 ± 25
Acenaphthene	µg/Kg	459 ± 33
Benzo(k)fluoranthene	µg/Kg	259 ± 23

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Informational Values:

Analyte	*Units*	*Suggested Acceptance Windows*	*Standard Deviation*
Dibenzo(a,h)anthracene	µg/Kg	0.00 to 379	67.4
Acenaphthylene	µg/Kg	140 to 1078	156
Anthracene	µg/Kg	26.0 to 452	71.1
Benzo(a)anthracene	µg/Kg	33.4 to 185	25.3
Benzo(a)pyrene	µg/Kg	15.6 to 115	16.6
Benzo(b)fluoranthene	µg/Kg	98.7 to 492	65.6
Benzo(g,h,i)perylene	µg/Kg	16.5 to 336	53.3
Naphthalene	µg/Kg	99.8 to 1032	155
Chrysene	µg/Kg	27.9 to 391	60.6
Benzo(b+k)fluoranthene	µg/Kg	265 to 1059	132
Fluoranthene	µg/Kg	113 to 433	53.3
Fluorene	µg/Kg	135 to 517	63.6
Indeno(1,2,3-cd) pyrene	µg/Kg	0.00 to 432	74.5
Phenanthrene	µg/Kg	92.8 to 346	42.2
Pyrene	µg/Kg	138 to 622	80.7
Acenaphthene	µg/Kg	154 to 764	102
Benzo(k)fluoranthene	µg/Kg	36.2 to 482	74.3

Additional Information:

DESCRIPTION

This product consist of a 4 vials each containing 10g of soil for analysis of PAHs. Each vial is identical and has been tested show homogeneity.

Four samples have been provided for your convenience (multiple methods, multiple analysts, etc.)

The soil has been chemically stabilized with 1 mL of acetone to minimize degradation of the sample.

SAMPLE PREPARATION

Extract the complete contents of a single vial. Transfer entire contents of one vial to extraction vessel. Rinse vial and cap with extraction solvent.

Note: Sample extracts and calibration solutions should be in the same solvent.

All values are based on a wet weight basis, do not correct for moisture.

Assume a 10g sample size for all calculations.

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: Package of 4 units of 10 g in amber jar

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 19-Apr-2021

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Details on metrological traceability: This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty: Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{\text{hom } ogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment: Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAC9745.01	19-Apr-2021	Original Release Date

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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT

Part Number: 70476
Lot Number: 071521
Description: Benzo(j)fluoranthene

Expiration Date: 071526
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

Solvent(s):	Lot#
Methylene chloride	105345

J007844

Benzo(j)fluoranthene 1000ug/mL
Expires 7/15/2026
Prepared By Joshua Rains 7/29/2021

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Gabriel Helland	071521
Formulated By: Gabriel Helland	DATE
Pedro Rentas	071521
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Benzo(j)fluoranthene	476	0022011	1000	99.94	0.2	0.01003	0.01008	1005.4	10.8	205-82-3	0.2mg/m3	N/A

Method GC18MSD-2M: Column:SBB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (14 min.), Rate = 10°C/min., Injector B= 250°C, Detector B = 290°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by Melissa Stonier.

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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CERTIFIED WEIGHT REPORT

Part Number: **70476**
Lot Number: 092220
Description: Benzo(j)fluoranthene

Expiration Date: 092225
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 23060

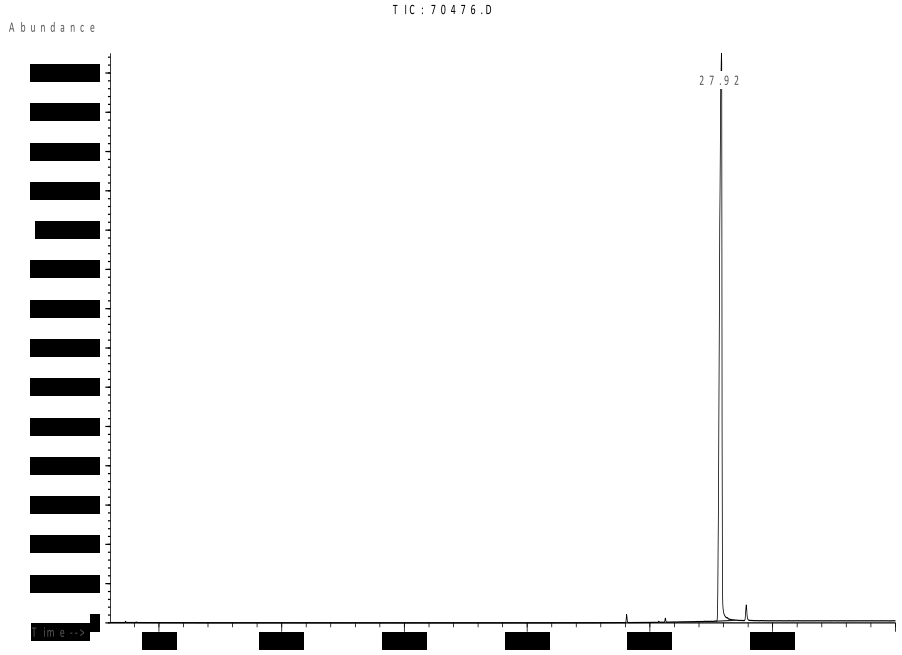
Solvent(s): **Lot#**
Methylene chloride 104929

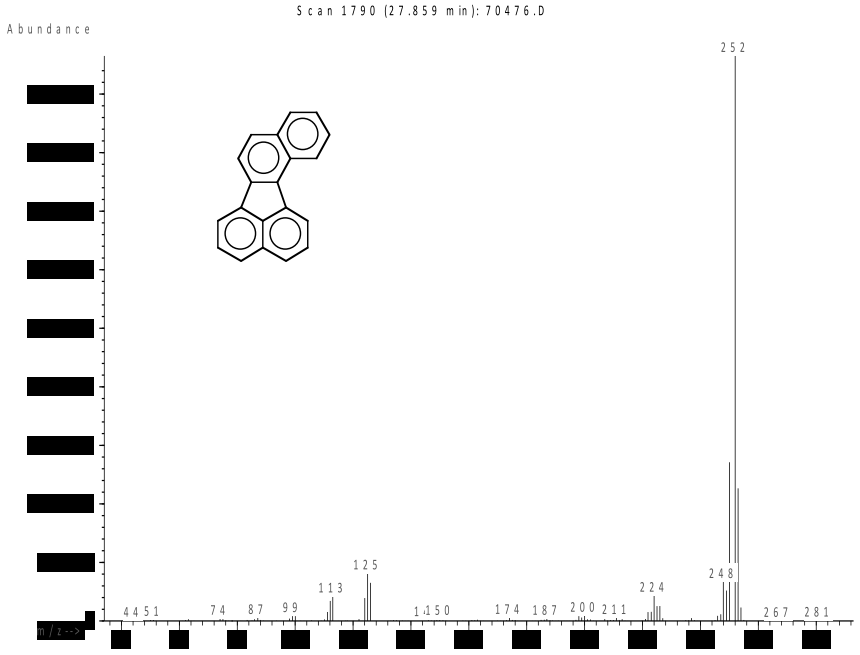
		092220
Formulated By:	Benson Chan	DATE
		092220
Reviewed By:	Pedro L. Rentas	DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 25.0 0.001 Flask Uncertainty

	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Benzo(j)fluoranthene	476	3-CSZ-153-20	1000	98.1	0.2	0.02547	0.02552	1001.8	5.7	205-82-3	0.2mg/m3	N/A

Method GC8MSD1M: Column:SBB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9 min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 290°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by Candice Warren.





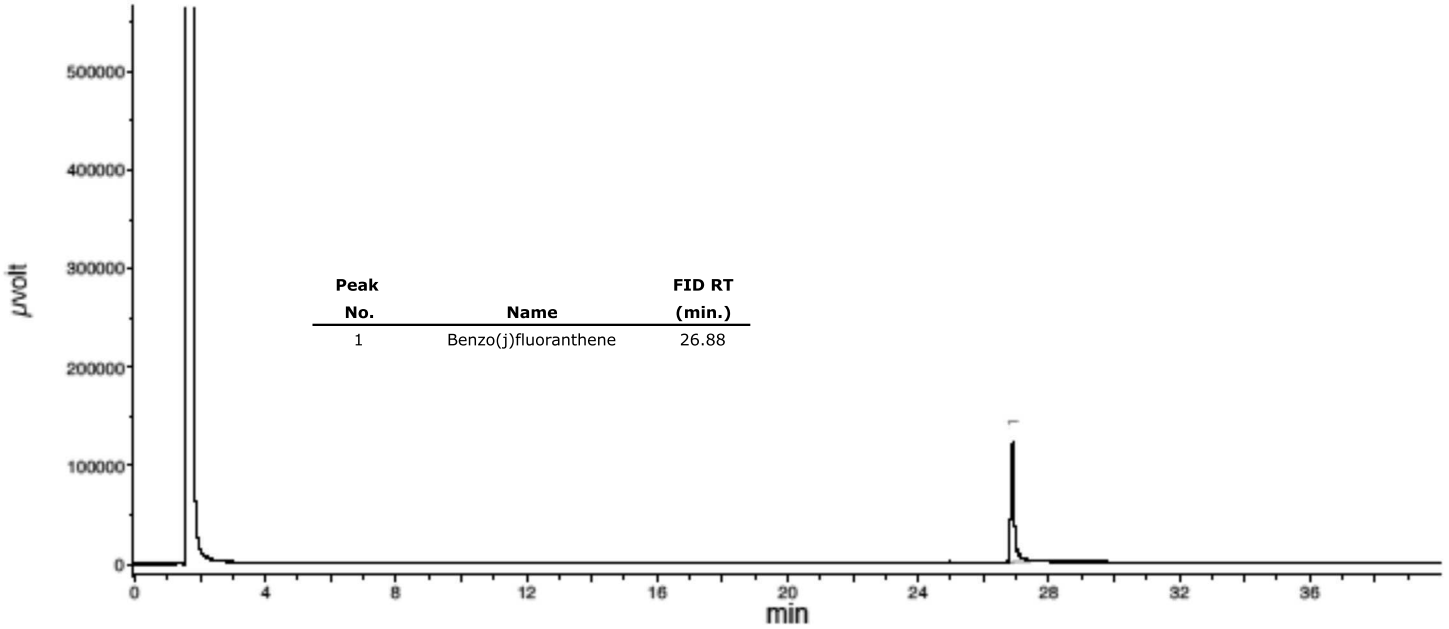
- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).**
- **Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).**

Run 31, "P70476 L092220 [1000µg/mL in MeCl2]"

Run Length: 40.00 min, 23999 points at 10 points/second.
Created: Thu, Sep 24, 2020 at 2:33:43 AM.
Sampled: Sequence "092120-GC9M2", Method "GC9-M2".
Analyzed using Method "GC9-M2".

Comments

GC9-M2 Analysis by Melissa Stonier
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates; Total Flow = 300 ml/min, Helium (carrier) = 6.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) =360 mLOven Temp 1 = 50°C (1 min).
Rate = 10°C/min, Oven Temp 2 = 300°C (14 min), Total Run Time = 40 Minutes. Injector Temp = 250°C.
FID Temp = 300°C, FID Signal = eDaq Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 uL, Range = 3



Peak No.	Name	FID RT (min.)
1	Benzo(j)fluoranthene	26.88

Certificate of Analysis

Sigma-Aldrich

Product Name:	2,4,6-Tribromophenol
Product Description:	99%
Product Brand:	Sigma-Aldrich
Product Number:	137715
Molecular Weight:	330.80
Molecular Formula:	$Br_3C_6H_2OH$
CAS Number:	118-79-6

TEST	SPECIFICATION	LOT 05110PD RESULTS
APPEARANCE:	WHITE TO OFF-WHITE TO PINK FLAKES, CHUNKS,	PINK BEADS
INFRARED SPECTRUM:		CONFORMS TO STRUCTURE.
GAS LIQUID:	98.5% (MINIMUM)	99.9%
QUALITY CONTROL:		NOVEMBER 2005

Barbara Rajzer

Barbara Rajzer, Supervisor
Quality Control
Milwaukee, Wisconsin USA

J010541
SVOA-Tribromophenol-NEAT
Solvent / Lot: 05110PD
Prep: 10/1/2021 by VS
Exp: 3/30/2040
Location: voa freezer

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Lot Number: CL16916
Description: 8270 Calibration Standard
Certification Date: June 25, 2021
Storage: -18 °C
Expiration Date: September 30, 2022
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

J013398

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Acenaphthene	83-32-9	1000	± 0.300%
Acenaphthylene	208-96-8	1000	± 0.225%
Anthracene	120-12-7	1000	± 0.224%
Azobenzene	103-33-3	1000	± 0.224%
Benzo(a)anthracene	56-55-3	1000	± 0.247%
Benzo(a)pyrene	50-32-8	1000	± 0.258%
Benzo(b)fluoranthene	205-99-2	1000	± 0.144%
Benzo(k)fluoranthene	207-08-9	1000	± 0.146%
Benzo(g,h,i)perylene	191-24-2	1000	± 0.146%
Benzyl alcohol	100-51-6	1000	± 0.231%
Benzyl butyl phthalate	85-68-7	1000	± 0.480%
bis(2-Chloroethoxy)methane	111-91-1	1000	± 0.527%
bis(2-Chloroethyl) ether	111-44-4	1000	± 0.486%
bis(2-Chloroisopropyl) ether	108-60-1	1000	± 0.148%
bis(2-Ethylhexyl) adipate	103-23-1	1000	± 0.479%
bis(2-Ethylhexyl) phthalate	117-81-7	1000	± 0.479%
4-Bromophenyl phenyl ether	101-55-3	1000	± 0.479%
Carbazole	86-74-8	1000	± 0.147%

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Catalog No.: AL0-101444
Lot Number: CL16916
Description: 8270 Calibration Standard
Certification Date: June 25, 2021
Storage: -18 °C
Expiration Date: September 30, 2022
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
4-Chloroaniline	106-47-8	1000	± 0.300%
4-Chloro-3-methylphenol	59-50-7	1000	± 0.545%
2-Chloronaphthalene	91-58-7	1000	± 0.224%
2-Chlorophenol	95-57-8	1000	± 0.507%
4-Chlorophenyl phenyl ether	7005-72-3	1000	± 0.479%
Chrysene	218-01-9	1000	± 0.145%
Dibenz(a,h)anthracene	53-70-3	1000	± 0.280%
Dibenzofuran	132-64-9	1000	± 0.302%
Di-n-butyl phthalate	84-74-2	1000	± 0.519%
1,2-Dichlorobenzene	95-50-1	1000	± 0.247%
1,3-Dichlorobenzene	541-73-1	1000	± 0.225%
1,4-Dichlorobenzene	106-46-7	1000	± 0.224%
2,4-Dichlorophenol	120-83-2	1000	± 0.545%
Diethyl phthalate	84-66-2	1000	± 0.479%
2,4-Dimethylphenol	105-67-9	1000	± 0.507%
Dimethyl phthalate	131-11-3	1000	± 0.519%
1,2-Dinitrobenzene	528-29-0	1000	± 0.361%
1,3-Dinitrobenzene	99-65-0	1000	± 0.300%
1,4-Dinitrobenzene	100-25-4	1000	± 0.242%
2,4-Dinitrophenol	51-28-5	1000	± 0.545%
2,4-Dinitrotoluene	121-14-2	1000	± 0.226%

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Catalog No.: AL0-101444
Description: 8270 Calibration Standard
Storage: -18 °C
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Lot Number: CL16916
Certification Date: June 25, 2021
Expiration Date: September 30, 2022

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2,6-Dinitrotoluene	606-20-2	1000	± 0.224%
Di-n-octyl phthalate	117-84-0	1000	± 0.486%
Fluoranthene	206-44-0	1000	± 0.224%
Fluorene	86-73-7	1000	± 0.224%
Hexachlorobenzene	118-74-1	1000	± 0.152%
Hexachlorobutadiene	87-68-3	1000	± 0.479%
Hexachlorocyclopentadiene	77-47-4	1000	± 0.146%
Hexachloroethane	67-72-1	1000	± 0.300%
Indeno(1,2,3-cd)pyrene	193-39-5	1000	± 0.149%
Isophorone	78-59-1	1000	± 0.145%
2-Methyl-4,6-dinitrophenol	534-52-1	1000	± 0.508%
1-Methylnaphthalene	90-12-0	1000	± 0.479%
2-Methylnaphthalene	91-57-6	1000	± 0.487%
2-Methylphenol	95-48-7	1000	± 0.545%
3-Methylphenol	108-39-4	500	± 0.279%
4-Methylphenol	106-44-5	500	± 0.279%
Naphthalene	91-20-3	1000	± 0.226%
2-Nitroaniline	88-74-4	1000	± 0.224%
3-Nitroaniline	99-09-2	1000	± 0.235%
4-Nitroaniline	100-01-6	1000	± 0.300%
Nitrobenzene	98-95-3	1000	± 0.300%

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Lot Number: CL16916
Description: 8270 Calibration Standard
Certification Date: June 25, 2021
Storage: -18 °C
Expiration Date: September 30, 2022
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2-Nitrophenol	88-75-5	1000	± 0.514%
4-Nitrophenol	100-02-7	1000	± 0.519%
N-Nitrosodimethylamine	62-75-9	1000	± 0.503%
N-Nitrosodiphenylamine	86-30-6	1000	± 0.476%
N-Nitrosodi-n-propylamine	621-64-7	1000	± 0.461%
Pentachlorophenol	87-86-5	1000	± 0.152%
Phenanthrene	85-01-8	1000	± 0.145%
Phenol	108-95-2	1000	± 0.545%
Pyrene	129-00-0	1000	± 0.147%
Pyridine	110-86-1	1000	± 0.503%
2,3,4,6-Tetrachlorophenol	58-90-2	1000	± 0.247%
2,3,5,6-Tetrachlorophenol	935-95-5	1000	± 0.247%
1,2,4-Trichlorobenzene	120-82-1	1000	± 0.224%
2,4,5-Trichlorophenol	95-95-4	1000	± 0.507%
2,4,6-Trichlorophenol	88-06-2	1000	± 0.509%

Notes: The proper chemical name for Bis(2-Chloroisopropyl) ether is 2,2'-oxybis(1-chloropropane). The analytical uncertainty contribution to the expanded uncertainty for 3 and 4-Methylphenol is measured as the total of the two analytes. N-Nitrosodiphenylamine presents as Diphenylamine at 854 µg/mL.

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 93462
Lot Number: 081021
Description: PAH Standard
30 components
Expiration Date: 081026
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

Solvent(s): Methylene chloride **Lot#** 105345

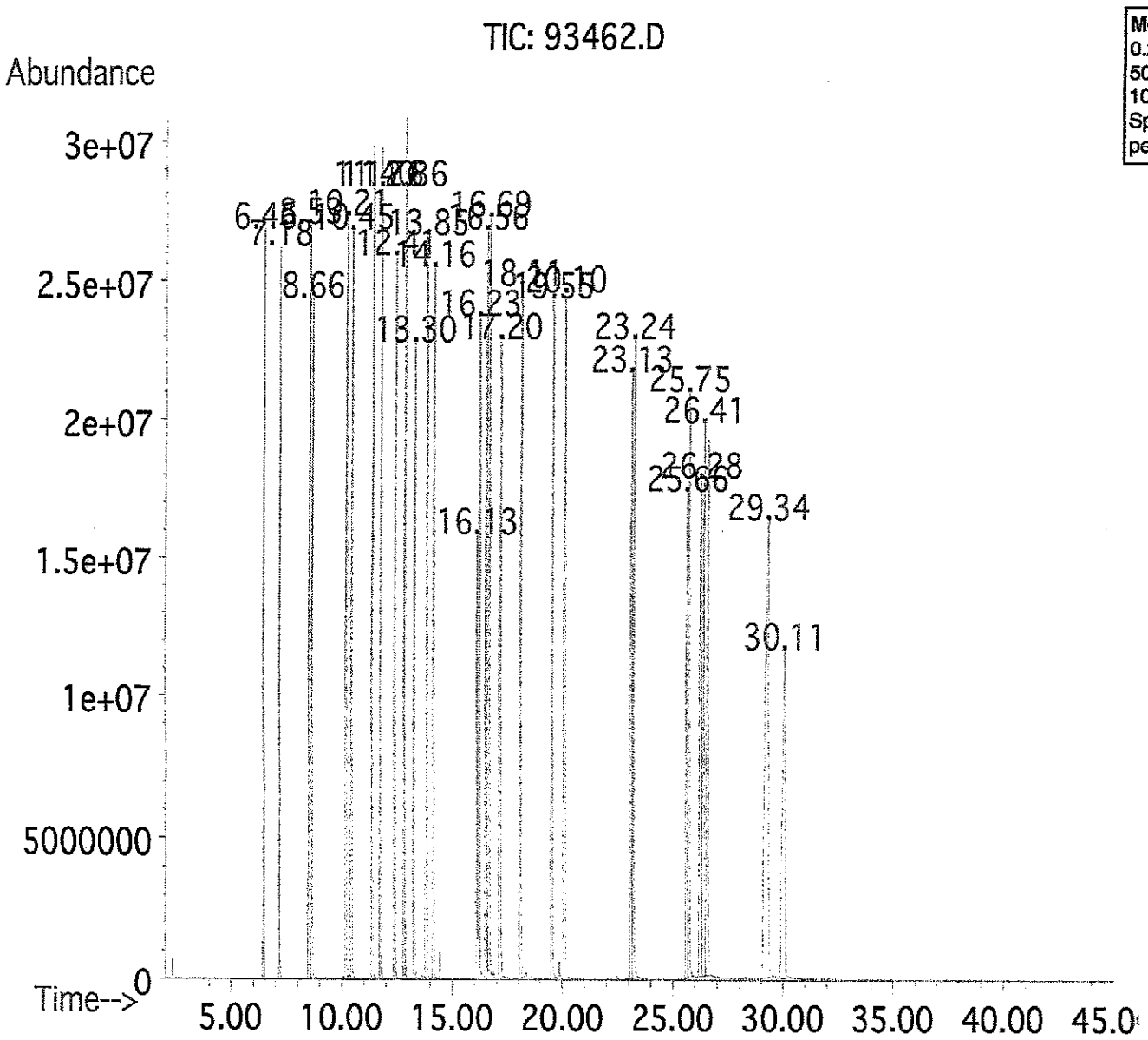
K3587

5E-05 Balance Uncertainty
Volume(s) shown below were combined and diluted to (mL): 20.0 0.001 Flask Uncertainty

Formulated By:	Prashant Chauhan	081021 DATE
Reviewed By:	Pedro L. Rentas	081021 DATE

Compound	Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Initial Conc.(ug/mL)	Final Conc.(ug/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acenaphthene	10007	042420	0.50	10.00	0.042	2001.2	1000.4	9.4	83-32-9	N/A	ipr-rat 600mg/kg
2. Acenaphthylene	10007	042420	0.50	10.00	0.042	2000.2	999.9	9.4	208-96-8	N/A	N/A
3. Anthracene	10007	042420	0.50	10.00	0.042	2000.3	999.9	9.3	120-12-7	0.2mg/m3 (8H)	ipr-mus 430mg/kg
4. Benzo(a)anthracene	10007	042420	0.50	10.00	0.042	2001.3	1000.4	9.4	56-55-3	N/A	N/A
5. Benzo(a)pyrene	10007	042420	0.50	10.00	0.042	2000.0	999.8	9.3	50-32-8	0.2mg/m3 (8H)	scu-rat 50mg/kg
6. Benzo(b)fluoranthene	10007	042420	0.50	10.00	0.042	2000.9	1000.2	9.3	205-99-2	N/A	N/A
7. Benzo(k)fluoranthene	10007	042420	0.50	10.00	0.042	2001.2	1000.4	9.4	207-08-9	N/A	N/A
8. Benzo(g,h,i)perylene	10007	042420	0.50	10.00	0.042	2000.0	999.8	9.3	191-24-2	N/A	N/A
9. Carbazole	10007	042420	0.50	10.00	0.042	2000.3	999.9	9.4	86-74-8	N/A	ipr-mus 200mg/kg
10. Chrysene	10007	042420	0.50	10.00	0.042	2000.8	1000.2	9.4	218-01-9	0.2mg/m3	N/A
11. Dibenzo(a,h)anthracene	10007	042420	0.50	10.00	0.042	2000.8	1000.2	9.4	53-70-3	0.2mg/m3	N/A
12. Fluoranthene	10007	042420	0.50	10.00	0.042	2000.3	999.9	9.4	206-44-0	N/A	orl-rat 2000mg/kg
13. Fluorene	10007	042420	0.50	10.00	0.042	2000.9	1000.2	9.4	86-73-7	N/A	ipr-mus 2 g/kg
14. Indeno(1,2,3-cd)pyrene	10007	042420	0.50	10.00	0.042	2000.1	999.8	9.3	193-39-5	N/A	N/A
15. Naphthalene	10007	042420	0.50	10.00	0.042	2000.9	1000.2	9.3	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
16. Phenanthrene	10007	042420	0.50	10.00	0.042	2000.9	1000.2	9.4	85-01-8	0.2mg/m3/8H	orl-mus 700mg/kg
17. Pyrene	10007	042420	0.50	10.00	0.042	2001.0	1000.3	9.4	129-00-0	0.2mg/m3/8H	orl-rat 2700mg/kg
18. Benzo(e)pyrene	94851	081021	0.50	10.00	0.042	2002.1	1000.8	9.4	192-97-2	N/A	N/A
19. Biphenyl	94851	081021	0.50	10.00	0.042	2001.5	1000.5	9.4	92-52-4	0.2 ppm(1mg/m3/8H)	orl-rat 2400mg/kg
20. Decalin (49% cis, 51% trans)	94851	081021	0.50	10.00	0.042	2002.5	1001.0	9.4	91-17-8	N/A	N/A
21. Dibenzofuran	94851	081021	0.50	10.00	0.042	2002.3	1000.9	9.4	132-64-9	N/A	N/A
22. Dibenzothiophene	94851	081021	0.50	10.00	0.042	2002.5	1001.0	9.4	132-65-0	N/A	orl-mus 470 mg/kg
23. 2,6-Dimethylnaphthalene	94851	081021	0.50	10.00	0.042	2001.9	1000.7	9.4	581-42-0	N/A	N/A
24. 1-Methylnaphthalene	94851	081021	0.50	10.00	0.042	2002.2	1000.9	9.4	90-12-0	N/A	orl-rat 1840mg/kg
25. 2-Methylnaphthalene	94851	081021	0.50	10.00	0.042	2000.6	1000.1	9.4	91-57-6	N/A	orl-rat 1630mg/kg
26. 1-Methylphenanthrene	94851	081021	0.50	10.00	0.042	2002.3	1000.9	13.2	832-69-9	N/A	N/A
27. Pentachlorophenol	94851	081021	0.50	10.00	0.042	3961.5	1980.3	18.6	87-86-5	0.5mg/m3/8H (skin)	orl-rat 27mg/kg
28. Perylene	94851	081021	0.50	10.00	0.042	2001.9	1000.7	9.4	198-55-0	N/A	N/A
29. Thianaphthene	94851	081021	0.50	10.00	0.042	2003.1	1001.3	9.4	95-15-8	N/A	N/A
30. 2,3,5-Trimethylnaphthalene	94851	081021	0.50	10.00	0.042	2003.1	1001.3	9.5	2245-38-7	N/A	N/A

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



Method GC8MSD-2Long: Column:SPB-5 (30m X 0.25mm ID X 0.25μm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (14min.), Rate = 10°C/min., Injector B= 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Gina McLane.

Retention Time (min.)	
Decahydronaphthalene (Decalin) (isomer)	6.46
Decahydronaphthalene (Decalin) (isomer)	7.18
Naphthalene	8.53
Thianaphthene	8.66
2-Methylnaphthalene	10.21
1-Methylnaphthalene	10.45
Biphenyl	11.4
2,6-Dimethylnaphthalene	11.76
Acenaphthylene	12.41
Acenaphthene	12.86
Dibenzofuran	13.3
2,3,5-Trimethylnaphthalene	13.85
Fluorene	14.16
Pentachlorophenol	16.13
Dibenzothiophene	16.23
Phenanthrene	16.56
Anthracene	16.69
Carbazole	17.2
1-Methylphenanthrene	18.11
Fluoranthene	19.55
Pyrene	20.1
Benzo(a)anthracene	23.13
Chrysene	23.24
Benzo(b)fluoranthene	25.66
Benzo(k)fluoranthene	25.75
Perylene	26.28
Benzo(a)pyrene	26.41
Benzo(e)pyrene	26.61
Indeno(1,2,3-cd)pyrene	29.34
Dibenzo(a,h)anthracene	29.34
Benzo(g,h,i)perylene	30.11

Certificate of Analysis

Phenova Certified Reference Materials are sold by Phenomenex.
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Access your MSDS and digital C of A at **www.phenomenex.com/mysupport. Re-order at www.phenomenex.com/standards**

Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.:	AL0-101291	**Lot Number:**	CL11000
Description:	GC/MS Tuning Mix	**Certification Date:**	May 9, 2014
Storage:	4 °C	**Expiration Date:**	December 31, 2023
Provided As:	1 mL in 2 mL Ampoule in Methylene chloride	**Revision Date:**	August 5, 2015

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty (%)
Benzidine	92-87-5	1000	± 0.208%
Decafluorotriphenylphosphine (DFTPP)	5074-71-5	1000	± 0.057%
4,4'-DDT	50-29-3	1000	± 0.056%
Pentachlorophenol	87-86-5	1000	± 0.061%

K003891
GC/MS Tune solution-1000ug/ml
Solvent / Lot: CL11000
Prep: 4/22/2022 by VS
Exp: 12/31/2023
Location:

ACCREDITED
Reference Material Producer
Certificate No. 2427.02

phenova® Certified Reference Materials

Manufactured by Phenova, Inc.
Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ilac-MRA ACCREDITED
Chemical Testing Laboratory
Certificate No. 2427.03

IL111106/13_us

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 33913 **Lot No.:** A0183500

Description : SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 29, 2028 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Methylnaphthalene-d10	2,003.5 µg/mL	+/- 11.7578 µg/mL	Gravimetric
	CAS # 7297-45-2 (Lot EF-135)		+/- 90.2539 µg/mL	Unstressed
	Purity 96%		+/- 100.1449 µg/mL	Stressed
2	Fluoranthene-d10	2,006.0 µg/mL	+/- 11.7723 µg/mL	Gravimetric
	CAS # 93951-69-0 (Lot PR-20668)		+/- 90.3656 µg/mL	Unstressed
	Purity 99%		+/- 100.2689 µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

K004605
SOMO 1.0 SIM DMC
Solvent / Lot: A0183500
Prep: 5/14/2022 by VS
Exp: 2/29/2028
Location:

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

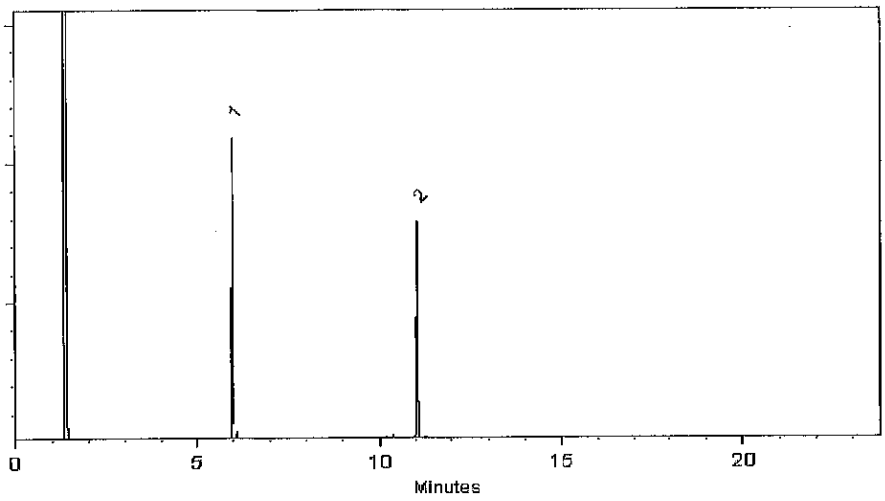
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis - Mix Technician

Date Mixed: 29-Mar-2022 **Balance:** B345965662

Ciara Windle - Operations Technician I

Date Passed: 01-Apr-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SS823

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0136
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0136-01 A	File ID:	12172213ECD7.D
Sampled:	12/06/22 09:41	Prepared:	12/08/22 14:38	Analyzed:	12/17/22 13:31
% Solids:	51.20	Preparation:	EPA 3546 (Microwave)	Initial/Final:	24.44 g Wet / 2.5 mL
Batch:	BKL0190	Sequence:	SKL0280	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	16.8	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	23.7	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	23.9	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9915*	*8.14*	*102*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9915*	*6.54*	*81.9*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9915*	*7.32*	*91.6*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9915*	*6.60*	*82.6*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172213ECD7.D
Data file 2: /221217.b/221217.b/12172213ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0136-01
Client ID:
Injection Date: 17-DEC-2022 13:31
Report Date: 12/20/2022 15:07
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.006	211094	5.707	-0.004	126395	32.8	33.0	0.9	Tetrachloro-m-xylene
13.898	-0.010	157717	14.127	-0.007	154621	40.7	36.6	10.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	454828	1.6
Hexabromobiphenyl	798898	422443	-47.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	279064	12.0
Hexabromobiphenyl	362541	297343	-18.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.413	-0.014	16276	83.2	1	8.316	-0.008	9526	83.6
Aroclor-1248	2	8.579	-0.025	14596	58.5	2	8.722	-0.009	8327	69.4
Aroclor-1248	3	8.999	-0.024	29620	65.9	3	9.154	-0.021	9641	66.1
Aroclor-1248	4	9.301	-0.011	28499	129.5	4	9.548	-0.050	20864	121.9
		Total Col1Ave (4 peaks):			84.3		Total Col2Ave (4 peaks):			85.2 RPD = 1
		Corrected Ave (3 peaks):			69.2		Corrected Ave (3 peaks):			73.0 RPD = 5
Aroclor-1254	1	9.301	-0.020	28499	71.2	1	9.453	-0.011	18874	104.9
Aroclor-1254	2	9.422	0.020	5590	35.9	2	9.971	-0.010	9618	66.5
Aroclor-1254	3	9.678	-0.016	34417	136.1	3	10.119	-0.015	30978	99.6
Aroclor-1254	4	9.802	-0.029	46713	94.7	4	10.361	-0.021	39802	123.6
Aroclor-1254	5	10.140	-0.049	57032	168.8	5	10.568	-0.011	30849	198.6
		Total Col1Ave (5 peaks):			101.3		Total Col2Ave (5 peaks):			118.6 RPD = 16
		Corrected Ave (4 peaks):			84.5		Corrected Ave (4 peaks):			98.7 RPD = 15
Aroclor-1260	1	11.047	-0.016	18165	118.1	1	11.657	-0.010	16150	102.9
Aroclor-1260	2	11.361	-0.017	12235	76.9	2	11.917	-0.013	32633	82.9
Aroclor-1260	3	11.731	-0.021	39341	94.1	3	12.431	-0.018	21545	205.4
Aroclor-1260	4	12.131	-0.027	22551	106.0	4	12.501	-0.012	22926	87.3
Aroclor-1260	5	12.246	-0.015	10574	121.4	NS	---			----
		Total Col1Ave (5 peaks):			103.3		Total Col2Ave (4 peaks):			119.6 RPD = 15
		Corrected Ave (4 peaks):			98.8		Corrected Ave (3 peaks):			91.0 RPD = 8
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.936 - 13.808) = 1088479 Col1 Total PCB = 0.2 ppm*

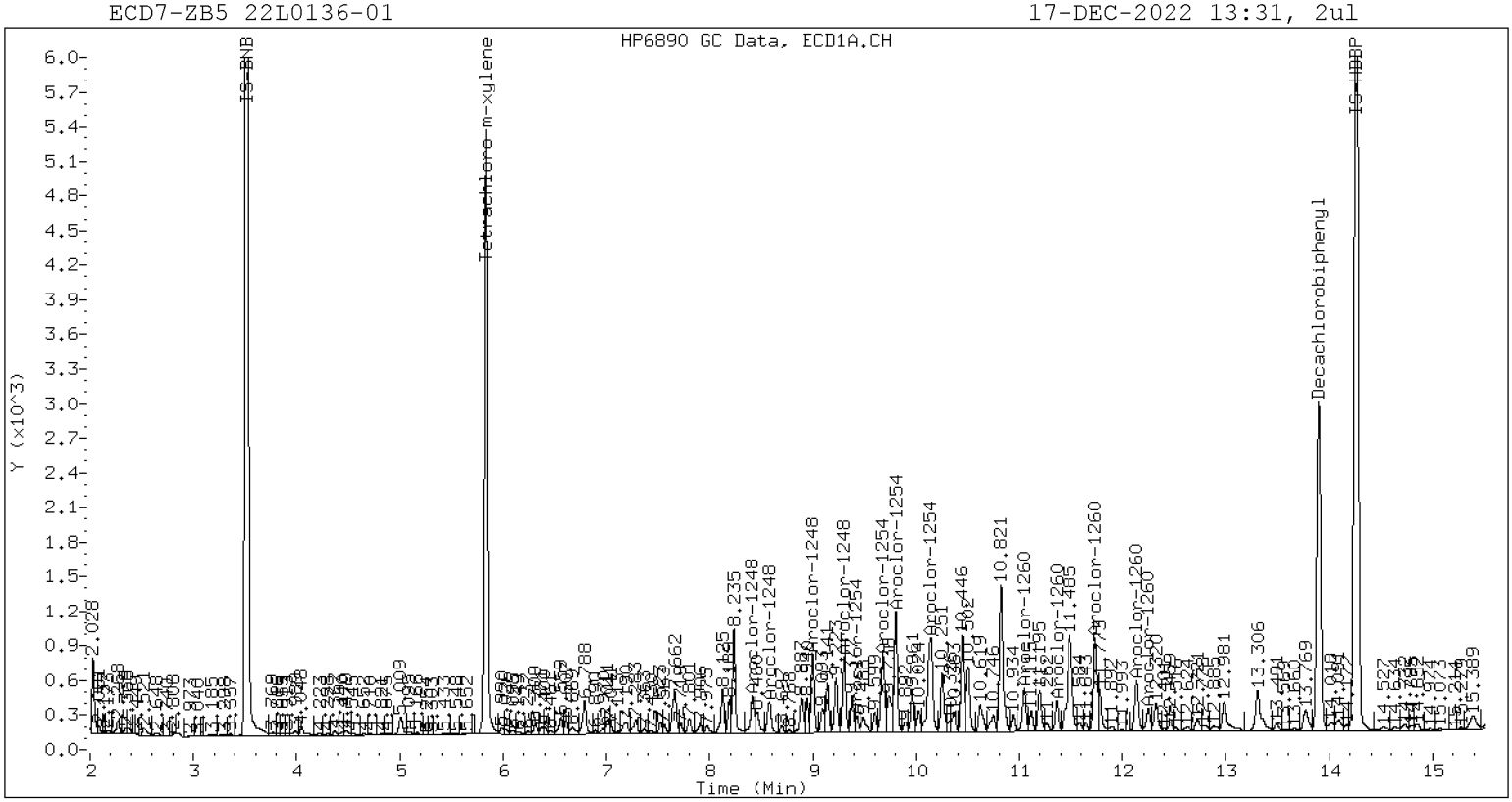
Total PCB Area Col2 (5.936 - 13.808) = 715352 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

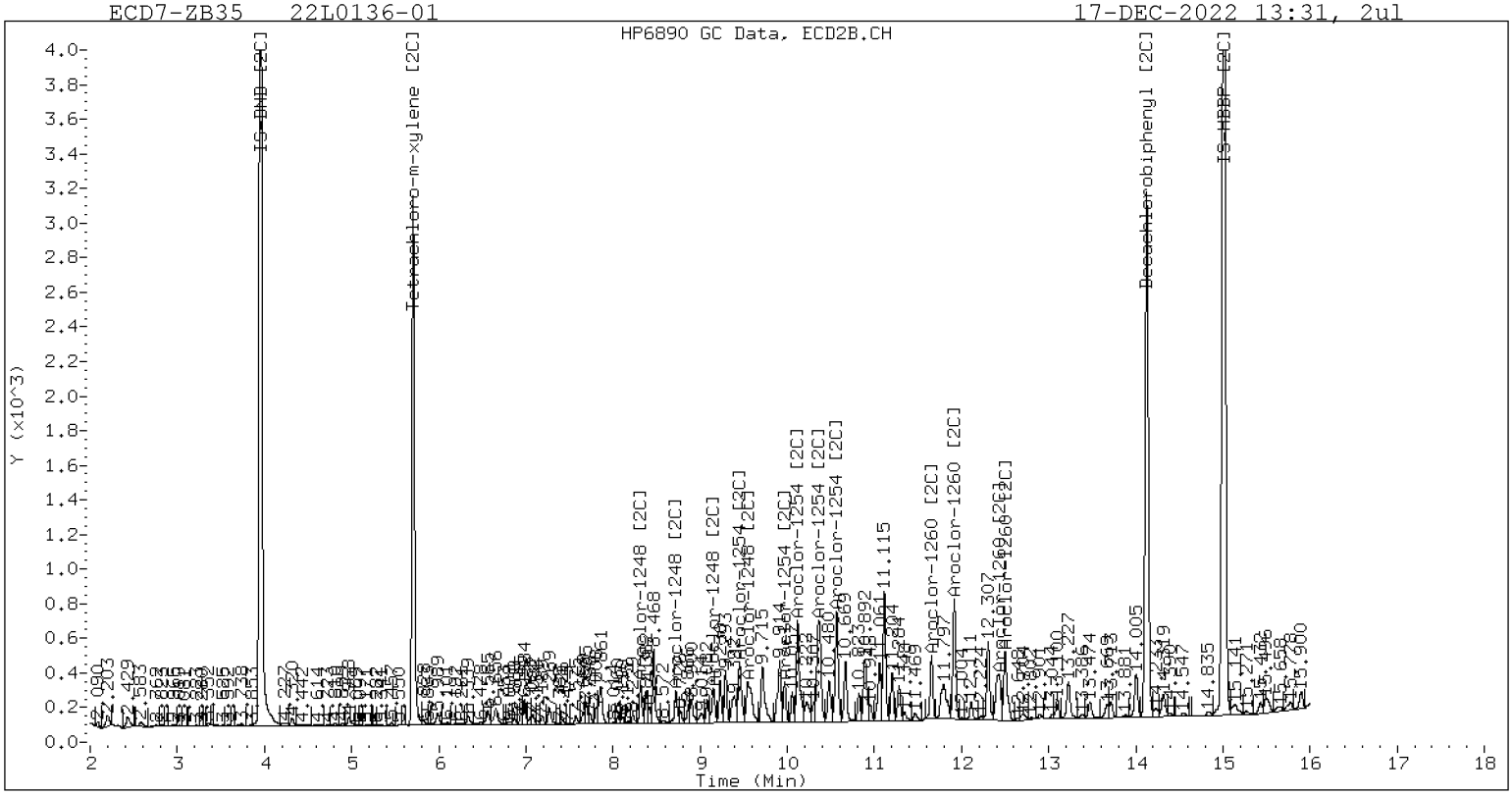
PCB Dual Column Chromatograms

ECD7-ZB5 22L0136-01 17-DEC-2022 13:31, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0136-01 17-DEC-2022 13:31, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SS822

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0136
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0136-02 A	File ID:	12172214ECD7.D
Sampled:	12/06/22 10:10	Prepared:	12/08/22 14:38	Analyzed:	12/17/22 13:53
% Solids:	94.71	Preparation:	EPA 3546 (Microwave)	Initial/Final:	13.25 g Wet / 2.5 mL
Batch:	BKL0190	Sequence:	SKL0280	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9687*	*8.15*	*102*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9687*	*6.43*	*80.7*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172214ECD7.D
Data file 2: /221217.b/221217.b/12172214ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0136-02
Client ID:
Injection Date: 17-DEC-2022 13:53
Report Date: 12/20/2022 15:07
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.005	228587	5.709	-0.002	130525	32.3	31.8	1.3	Tetrachloro-m-xylene
13.900	-0.008	239665	14.128	-0.005	203632	40.9	37.1	9.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	499794	11.6
Hexabromobiphenyl	798898	638861	-20.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	299026	20.0
Hexabromobiphenyl	362541	386588	6.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	ZB5 Col Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.936 - 13.808) = 134935 Col1 Total PCB = 0.0 ppm*

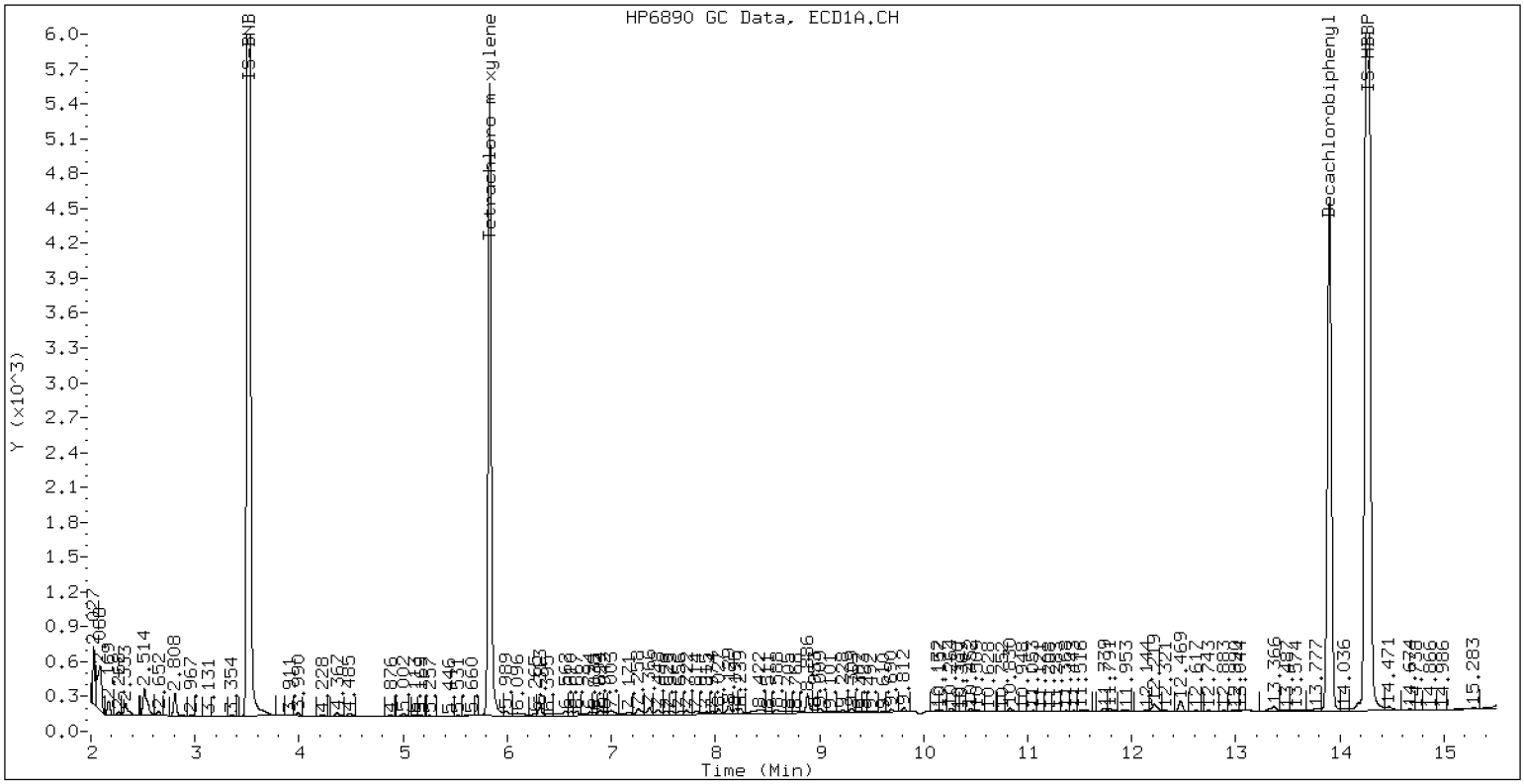
Total PCB Area Col2 (5.936 - 13.808) = 54328 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

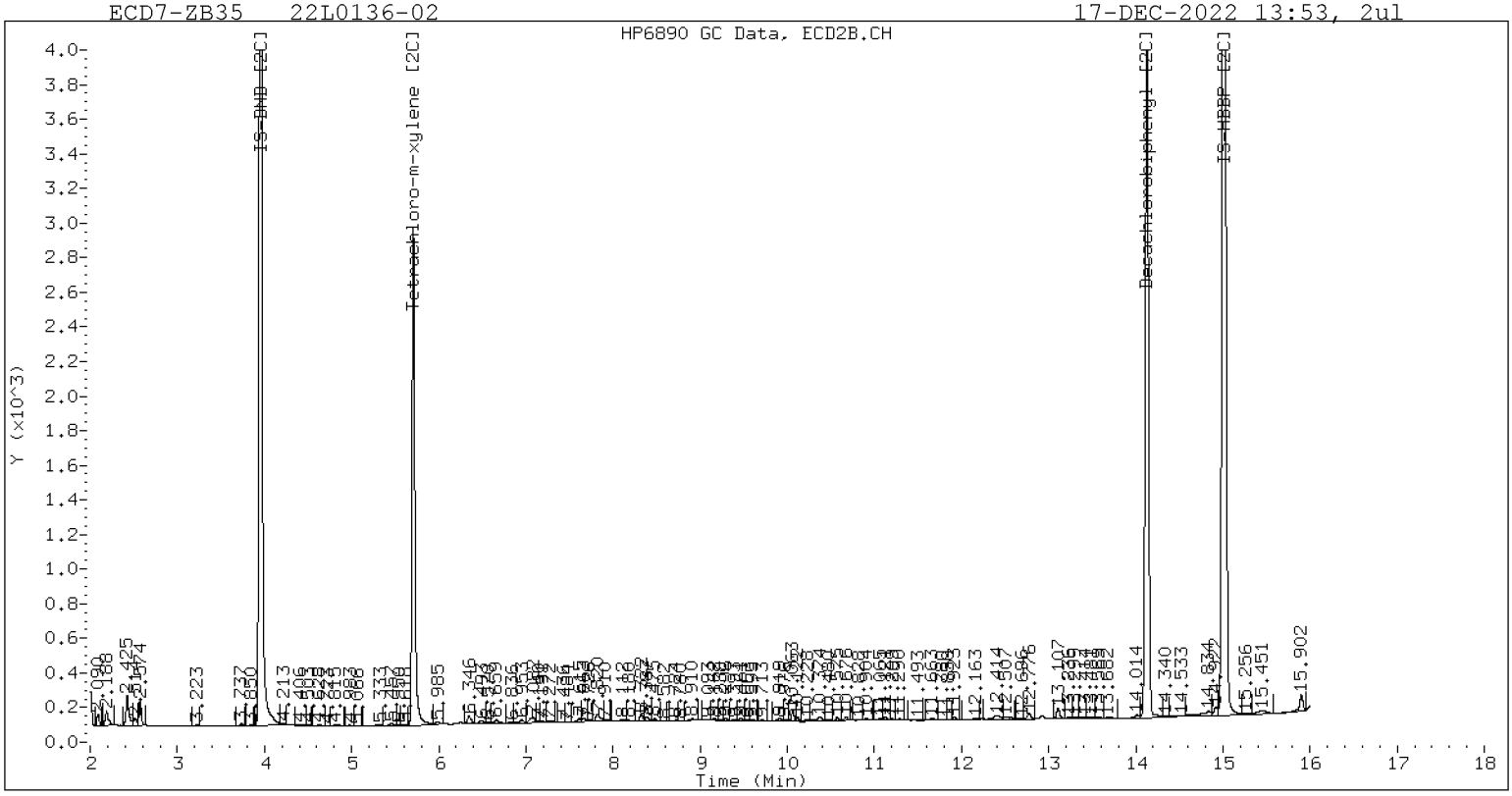
PCB Dual Column Chromatograms

ECD7-ZB5 22L0136-02 17-DEC-2022 13:53, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0136-02 17-DEC-2022 13:53, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SS821

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0136
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0136-03 A	File ID:	12172217ECD7.D
Sampled:	12/06/22 10:23	Prepared:	12/08/22 14:38	Analyzed:	12/17/22 14:56
% Solids:	88.28	Preparation:	EPA 3546 (Microwave)	Initial/Final:	14.16 g Wet / 2.5 mL
Batch:	BKL0190	Sequence:	SKL0280	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9997*	*8.53*	*107*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9997*	*6.83*	*85.3*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172217ECD7.D
Data file 2: /221217.b/221217.b/12172217ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0136-03
Client ID:
Injection Date: 17-DEC-2022 14:56
Report Date: 12/20/2022 15:07
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.006	251046	5.707	-0.003	139672	34.1	35.2	3.0	Tetrachloro-m-xylene
13.900	-0.007	314717	14.129	-0.004	242024	42.7	39.1	8.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	519010	15.9
Hexabromobiphenyl	798898	804729	0.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	289807	16.3
Hexabromobiphenyl	362541	436024	20.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.936 - 13.808) = 339623 Col1 Total PCB = 0.1 ppm*

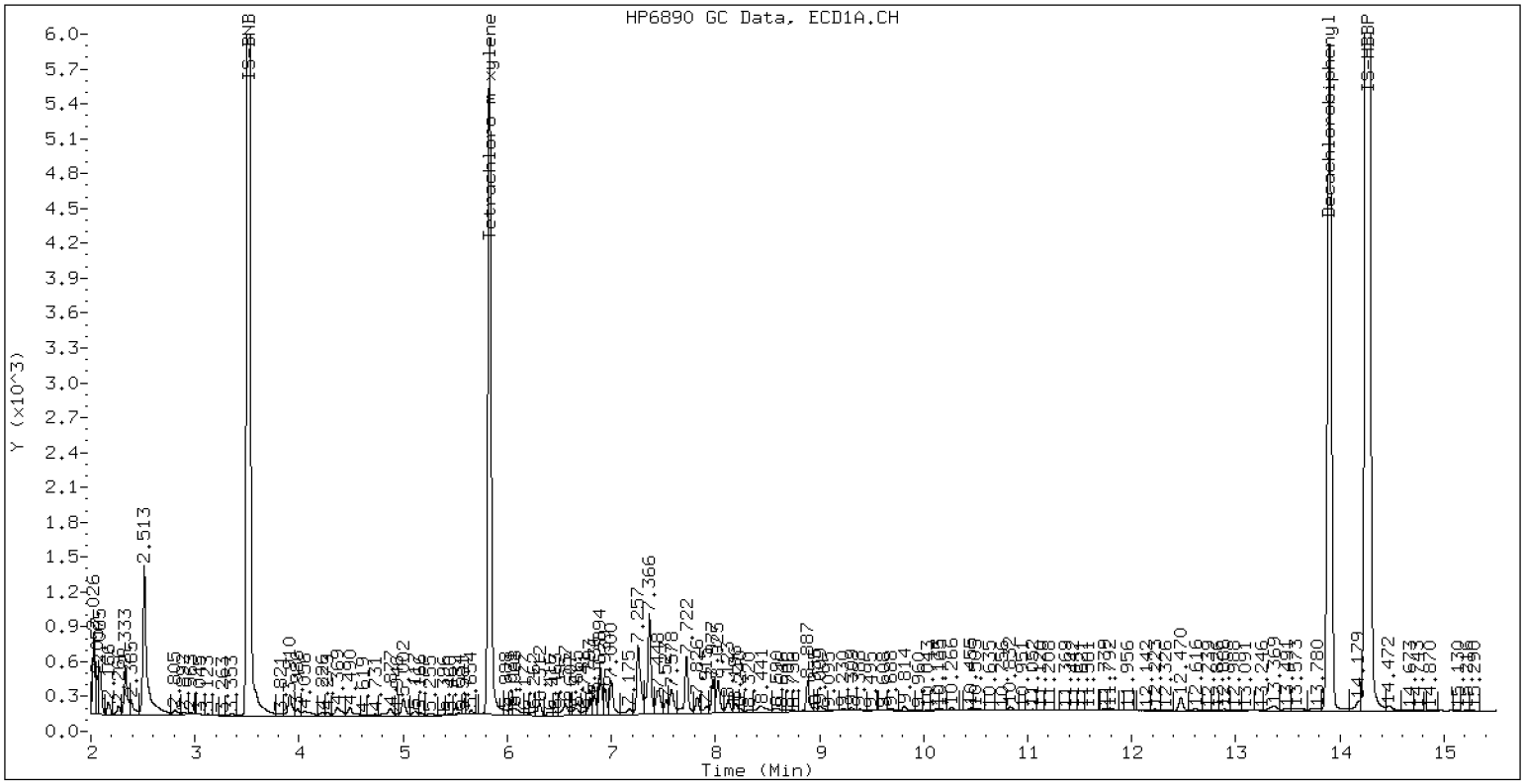
Total PCB Area Col2 (5.936 - 13.808) = 154829 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

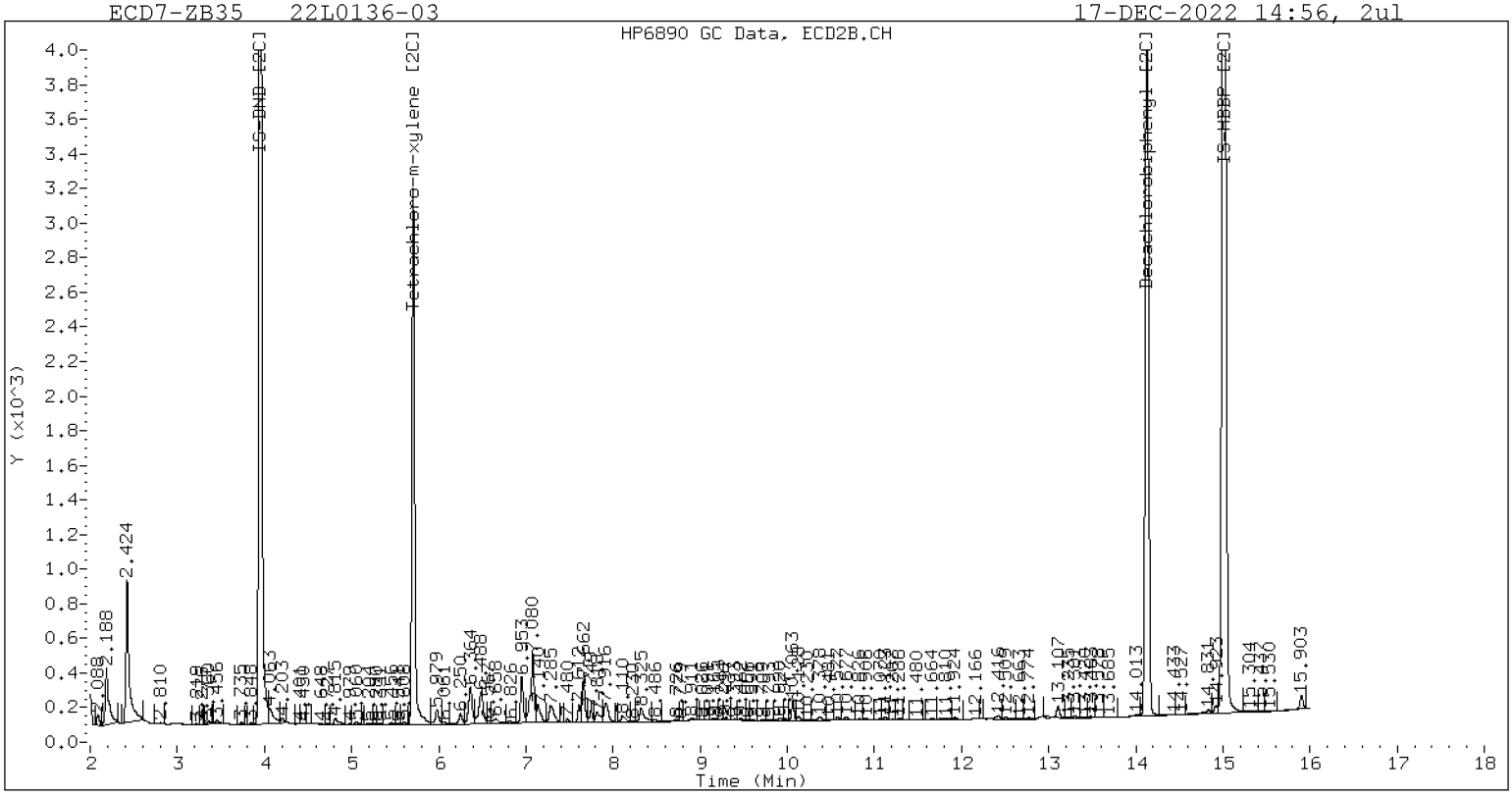
PCB Dual Column Chromatograms

ECD7-ZB5 22L0136-03 17-DEC-2022 14:56, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0136-03 17-DEC-2022 14:56, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SS820

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0136
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0136-04 A	File ID:	12172218ECD7.D
Sampled:	12/06/22 10:49	Prepared:	12/08/22 14:38	Analyzed:	12/17/22 15:18
% Solids:	72.83	Preparation:	EPA 3546 (Microwave)	Initial/Final:	17.19 g Wet / 2.5 mL
Batch:	BKL0190	Sequence:	SKL0280	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	6.7	1.6	4.0	
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9876*	*8.31*	*104*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9876*	*6.26*	*78.4*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172218ECD7.D
Data file 2: /221217.b/221217.b/12172218ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0136-04
Client ID:
Injection Date: 17-DEC-2022 15:18
Report Date: 12/20/2022 15:07
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.006	209533	5.707	-0.003	121027	31.4	31.9	1.8	Tetrachloro-m-xylene
13.897	-0.010	231144	14.127	-0.006	193079	41.6	34.7	17.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	471538	5.3
Hexabromobiphenyl	798898	606248	-24.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	276529	11.0
Hexabromobiphenyl	362541	391413	8.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	9.302	-0.019	8790	21.2	1	9.458	-0.006	4608	25.8
Aroclor-1254	2	9.423	0.021	4405	27.3	2	9.971	-0.010	1431	10.0
Aroclor-1254	3	9.683	-0.011	13319	50.8	3	10.120	-0.014	4782	15.5
Aroclor-1254	4	9.805	-0.026	12918	25.3	4	10.366	-0.017	9205	28.8
Aroclor-1254	5	10.142	-0.048	15400	44.0	5	10.570	-0.009	6354	41.3
		Total Col1Ave (5 peaks):		33.7		Total Col2Ave (5 peaks):			24.3	RPD = 32
		Corrected Ave (4 peaks):		29.4		Corrected Ave (4 peaks):			20.0	RPD = 38
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.936 - 13.808) = 450129 Col1 Total PCB = 0.1 ppm*

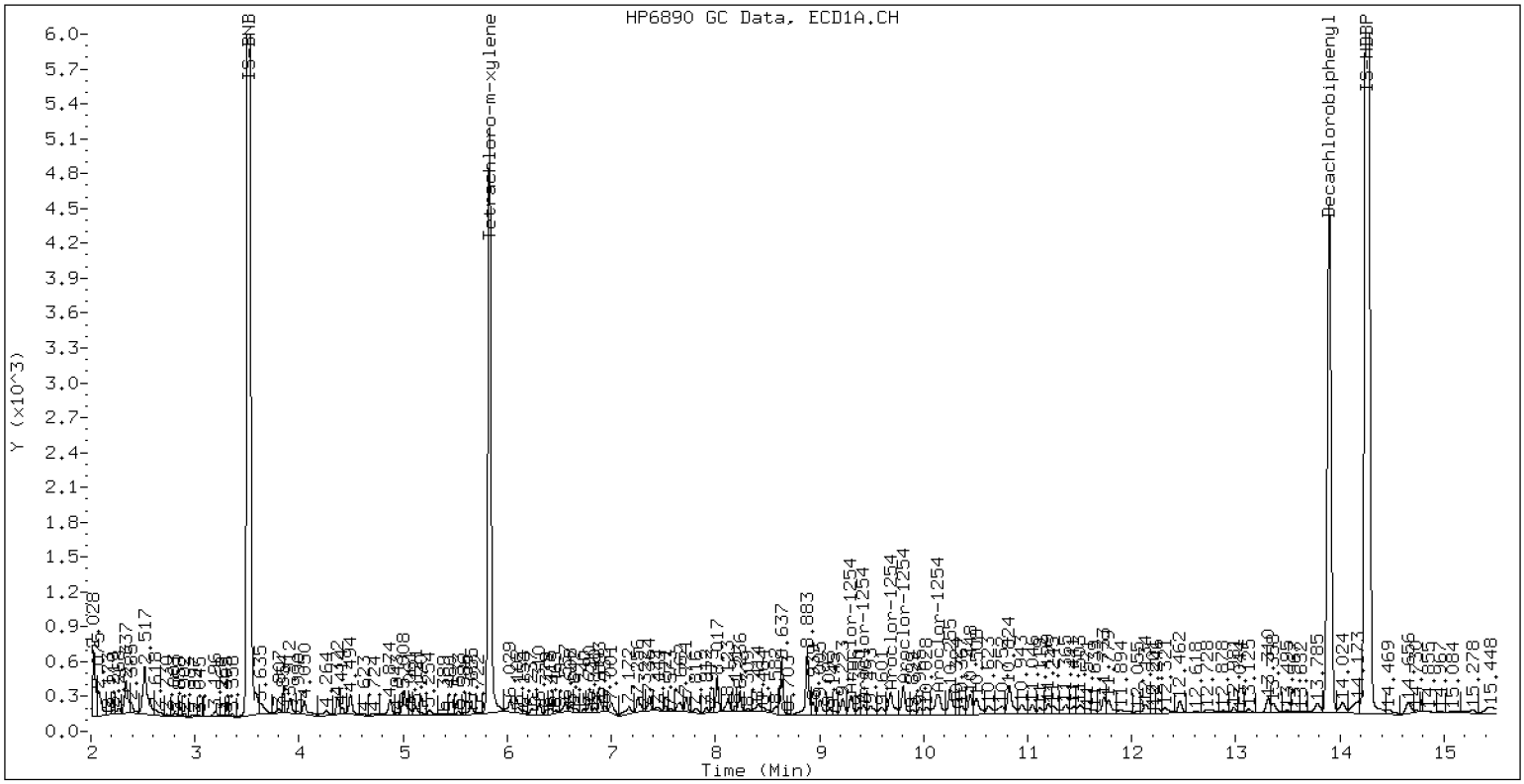
Total PCB Area Col2 (5.936 - 13.808) = 227150 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

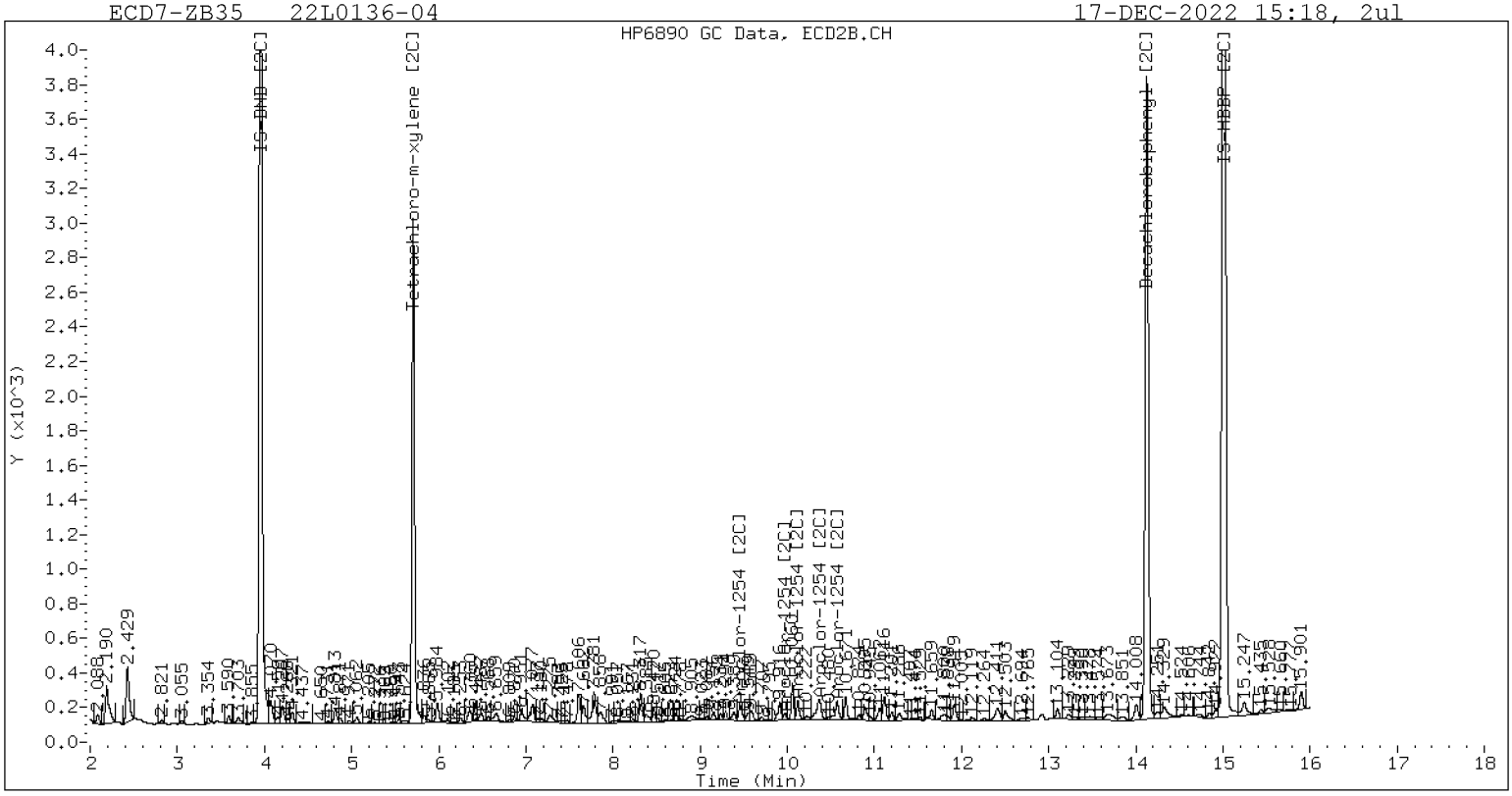
PCB Dual Column Chromatograms

ECD7-ZB5 22L0136-04 17-DEC-2022 15:18, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0136-04 17-DEC-2022 15:18, 2ul

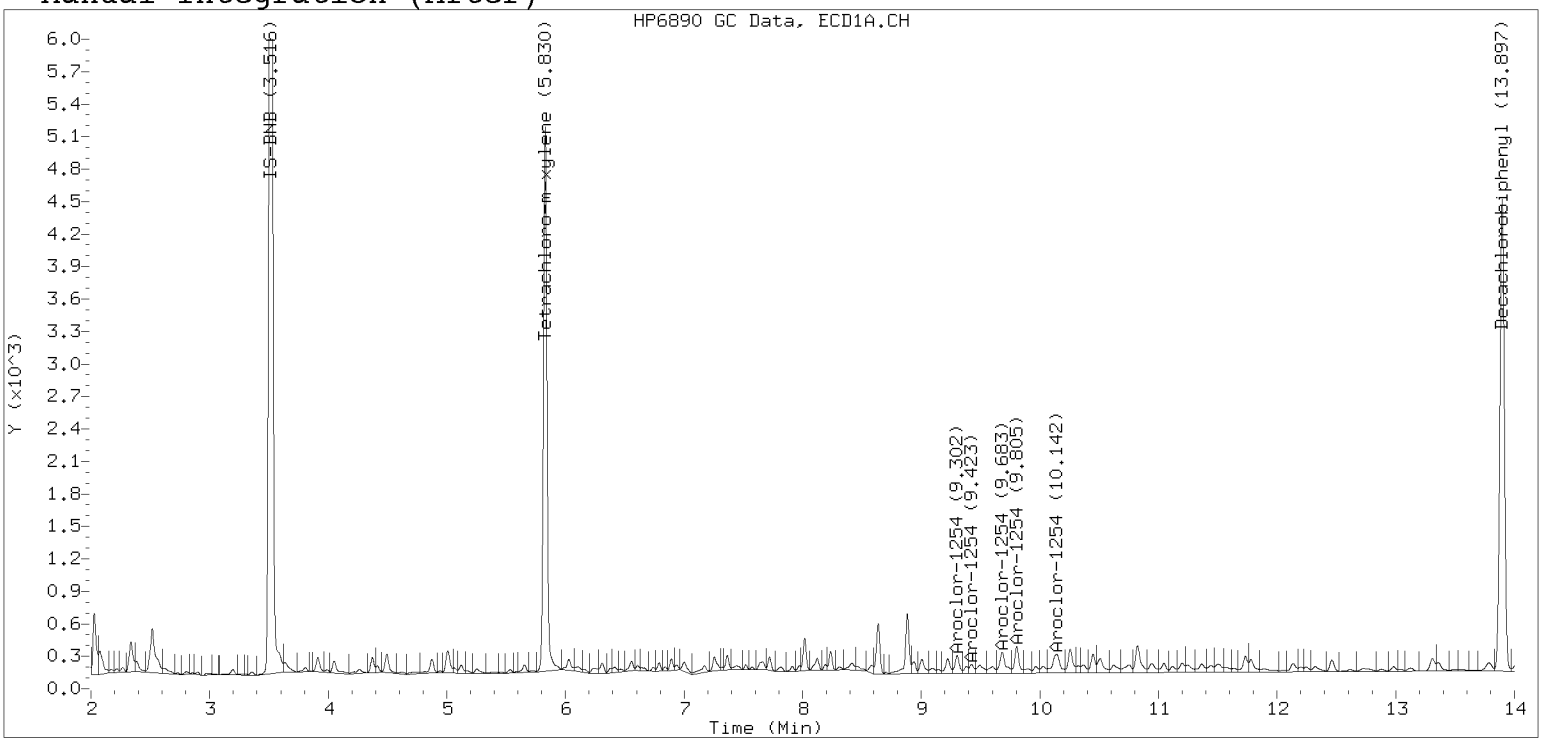


ZB-35 Manual Integration: YES

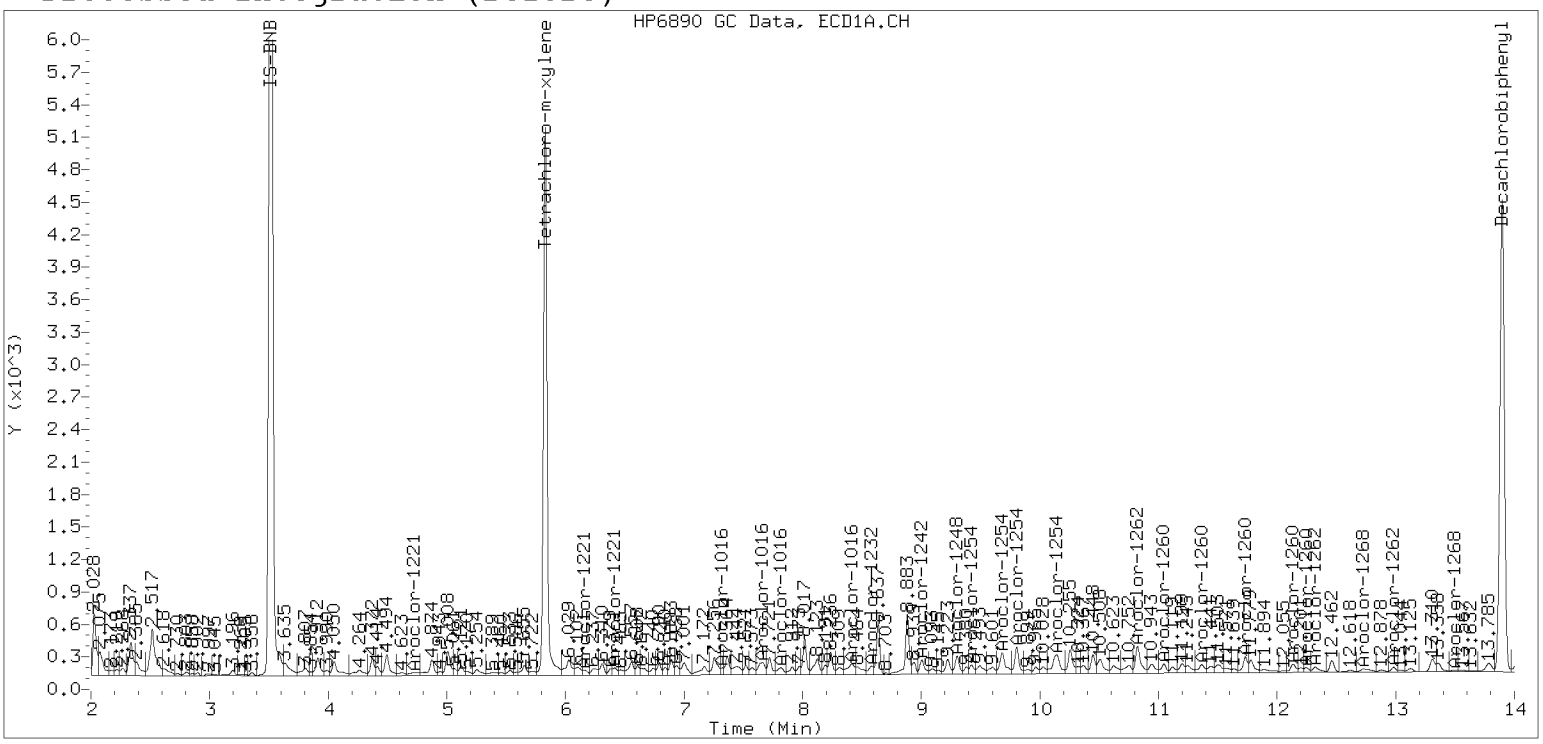
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221217.b/12172218ECD7.D Injection Date: 17-DEC-2022 15:18

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SS819

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0136
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0136-05 A	File ID:	12172219ECD7.D
Sampled:	12/06/22 11:11	Prepared:	12/08/22 14:38	Analyzed:	12/17/22 15:39
% Solids:	89.60	Preparation:	EPA 3546 (Microwave)	Initial/Final:	13.97 g Wet / 2.5 mL
Batch:	BKL0190	Sequence:	SKL0280	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9891*	*8.71*	*109*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9891*	*7.22*	*90.4*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172219ECD7.D
Data file 2: /221217.b/221217.b/12172219ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0136-05
Client ID:
Injection Date: 17-DEC-2022 15:39
Report Date: 12/20/2022 15:07
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	-0.004	251996	5.708	-0.002	142251	36.2	37.7	4.3	Tetrachloro-m-xylene
13.901	-0.007	294178	14.129	-0.005	233640	43.6	38.4	12.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	491692	9.8
Hexabromobiphenyl	798898	736313	-7.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	274963	10.4
Hexabromobiphenyl	362541	428184	18.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.936 - 13.808) = 238564 Col1 Total PCB = 0.0 ppm*

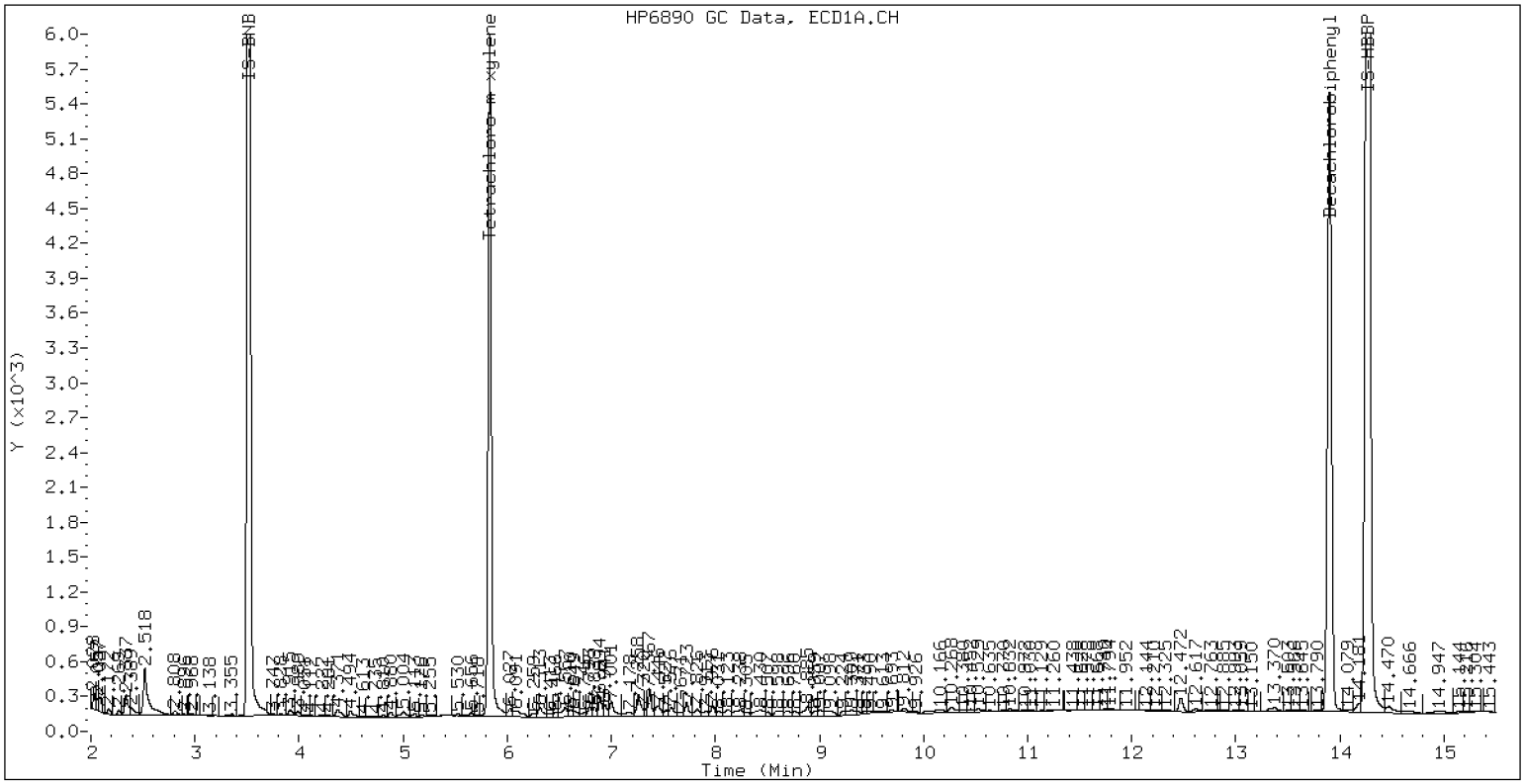
Total PCB Area Col2 (5.936 - 13.808) = 95658 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

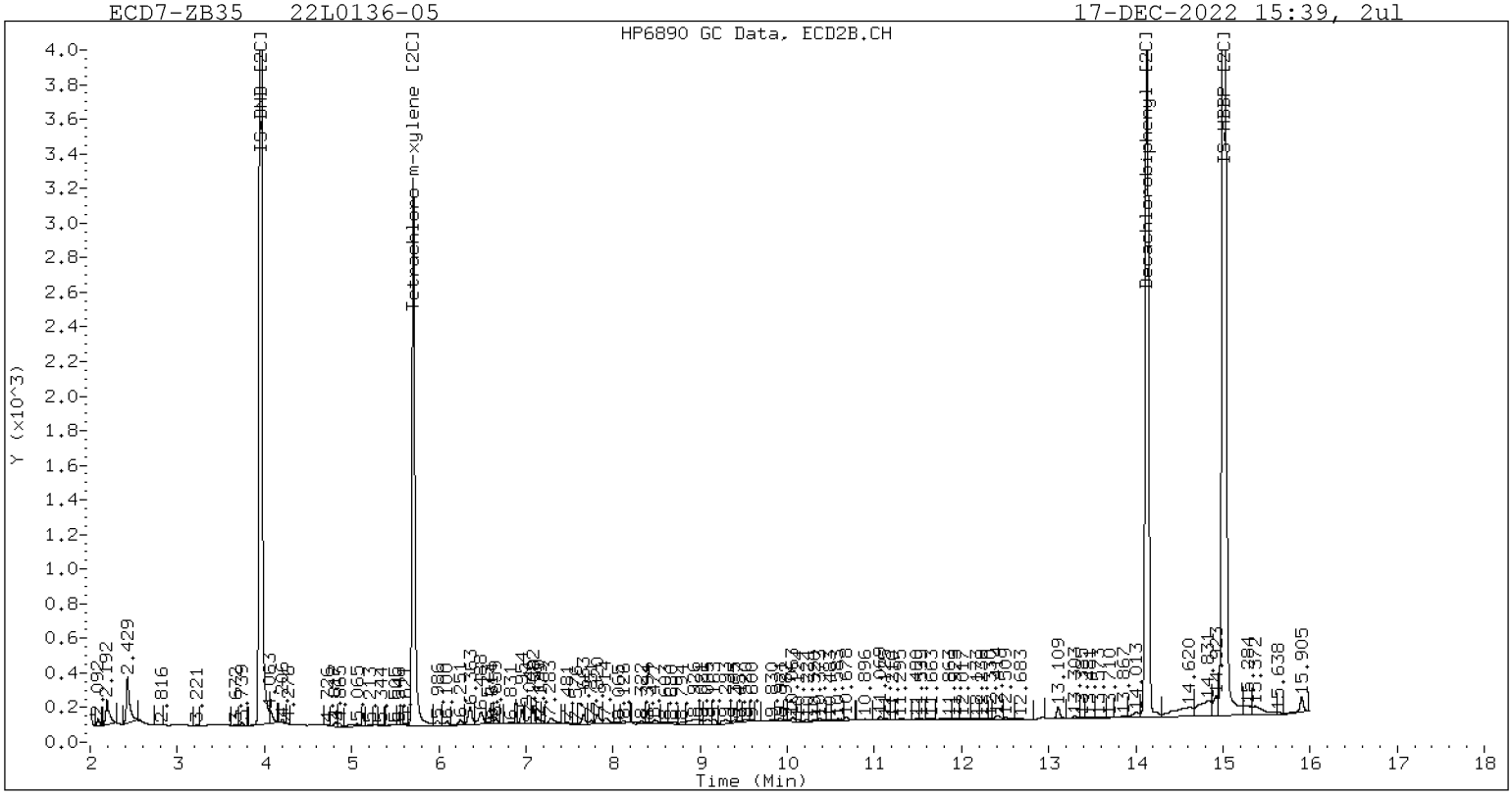
PCB Dual Column Chromatograms

ECD7-ZB5 22L0136-05 17-DEC-2022 15:39, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0136-05 17-DEC-2022 15:39, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SS818

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0136
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0136-06 A	File ID:	12172220ECD7.D
Sampled:	12/06/22 11:24	Prepared:	12/08/22 14:38	Analyzed:	12/17/22 16:00
% Solids:	60.82	Preparation:	EPA 3546 (Microwave)	Initial/Final:	20.62 g Wet / 2.5 mL
Batch:	BKL0190	Sequence:	SKL0280	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	10.5	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	12.1	1.6	4.0	
11096-82-5	Aroclor 1260	1	1	8.4	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9738*	*7.38*	*92.6*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9738*	*6.00*	*75.3*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9738*	*6.44*	*80.8*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9738*	*6.15*	*77.2*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172220ECD7.D
Data file 2: /221217.b/221217.b/12172220ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0136-06
Client ID:
Injection Date: 17-DEC-2022 16:00
Report Date: 12/20/2022 15:08
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.007	202955	5.707	-0.004	115897	30.1	30.9	2.5	Tetrachloro-m-xylene
13.897	-0.011	183154	14.126	-0.008	161492	37.0	32.3	13.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	475573	6.2
Hexabromobiphenyl	798898	539662	-32.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	273950	10.0
Hexabromobiphenyl	362541	351969	-2.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.414	-0.013	11885	58.1	1	8.318	-0.007	7699	68.8
Aroclor-1248	2	8.581	-0.023	11869	45.5	2	8.724	-0.007	4428	37.6
Aroclor-1248	3	9.002	-0.020	15461	32.9	3	9.156	-0.019	5605	39.1
Aroclor-1248	4	9.302	-0.009	16988	73.8	4	9.589	-0.009	6543	38.9
		Total Col1Ave (4 peaks):			52.6		Total Col2Ave (4 peaks):			46.1 RPD = 13
		Corrected Ave (3 peaks):			45.5		Corrected Ave (3 peaks):			38.6 RPD = 17
Aroclor-1254	1	9.302	-0.019	16988	40.6	1	9.456	-0.008	12104	68.5
Aroclor-1254	2	9.423	0.021	5801	35.6	2	9.973	-0.008	4735	33.3
Aroclor-1254	3	9.684	-0.010	26154	98.9	3	10.120	-0.014	14061	46.1
Aroclor-1254	4	9.805	-0.026	32077	62.2	4	10.367	-0.015	18749	59.3
Aroclor-1254	5	10.136	-0.054	29954	84.8	5	10.570	-0.009	14717	96.5
		Total Col1Ave (5 peaks):			64.4		Total Col2Ave (5 peaks):			60.8 RPD = 6
		Corrected Ave (4 peaks):			55.8		Corrected Ave (4 peaks):			51.8 RPD = 7
					59.33					
Aroclor-1260	1	11.047	-0.015	9305	47.4	1	11.658	-0.009	6903	37.2
Aroclor-1260	2	11.362	-0.015	7964	39.2	2	11.918	-0.012	12695	27.2
Aroclor-1260	3	11.732	-0.019	17448	32.7	3	12.411	-0.038	8048	64.8
Aroclor-1260	4	12.133	-0.025	10479	38.5	4	12.502	-0.012	10025	32.3
Aroclor-1260	5	12.247	-0.015	5962	53.6	NS	---			----
		Total Col1Ave (5 peaks):			42.3		Total Col2Ave (4 peaks):			40.4 RPD = 5
		Corrected Ave (4 peaks):			39.4		Corrected Ave (3 peaks):			32.2 RPD = 20
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.936 - 13.808) = 795090 Col1 Total PCB = 0.1 ppm*

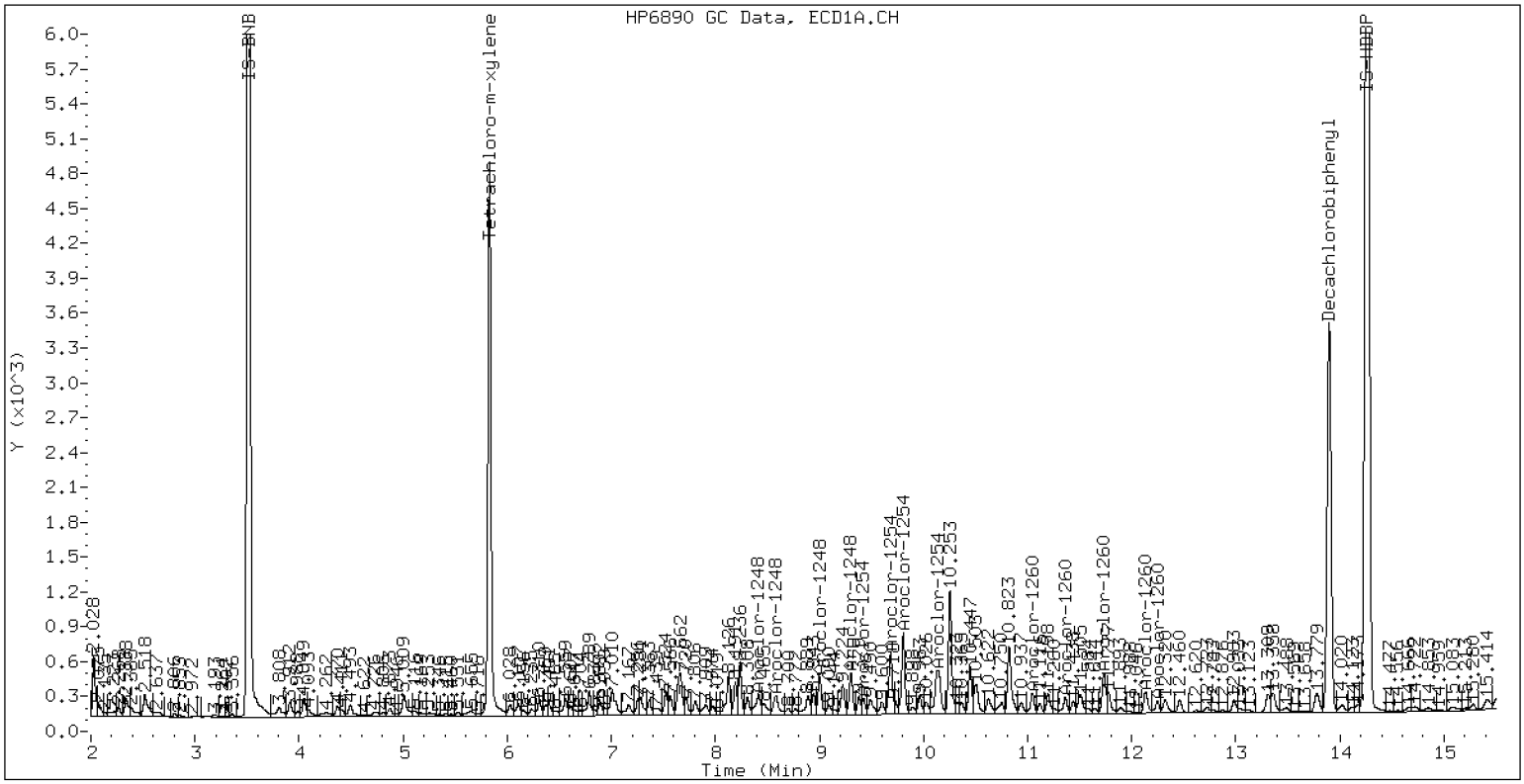
Total PCB Area Col2 (5.936 - 13.808) = 428640 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

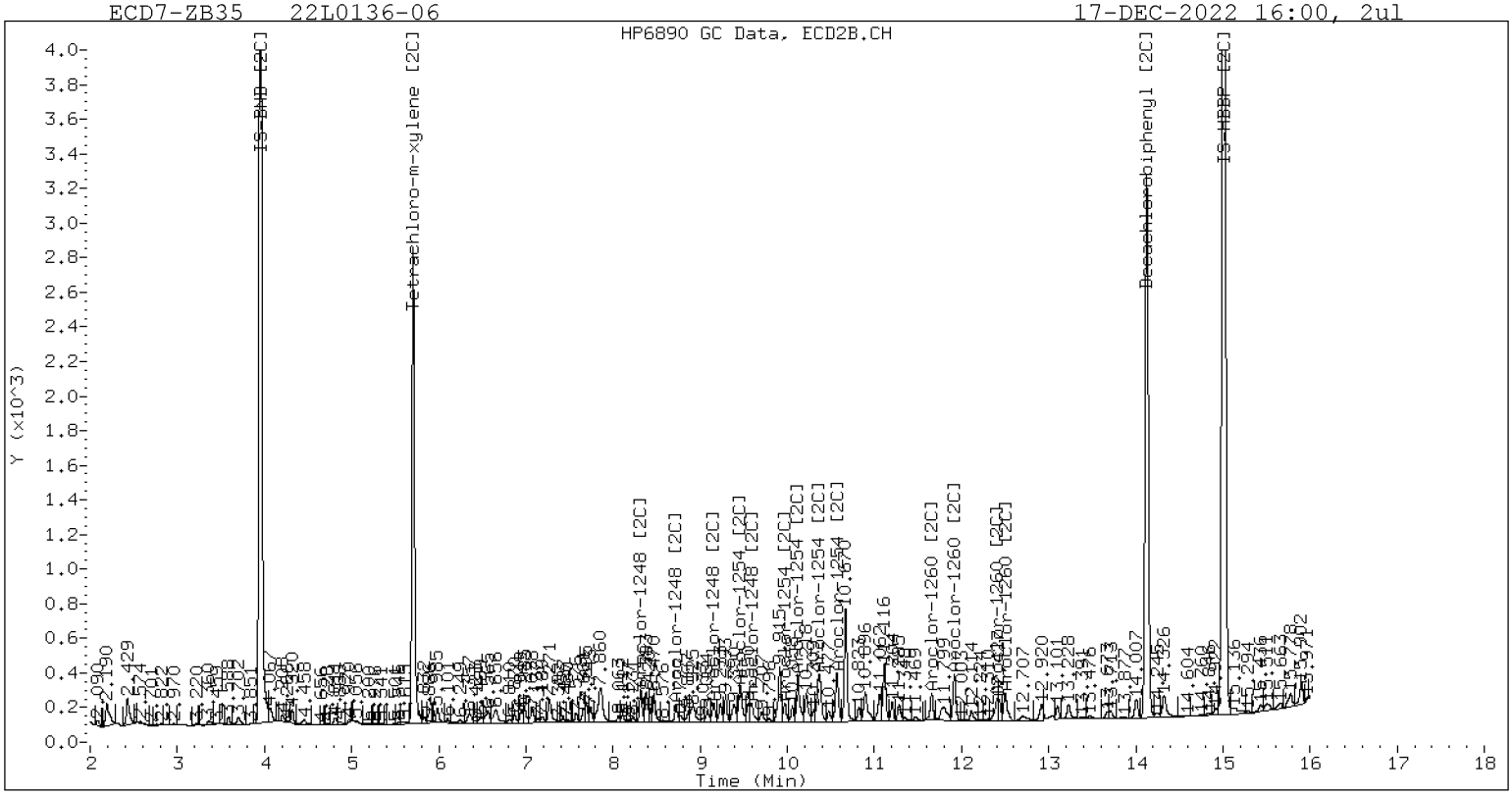
PCB Dual Column Chromatograms

ECD7-ZB5 22L0136-06 17-DEC-2022 16:00, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0136-06 17-DEC-2022 16:00, 2ul

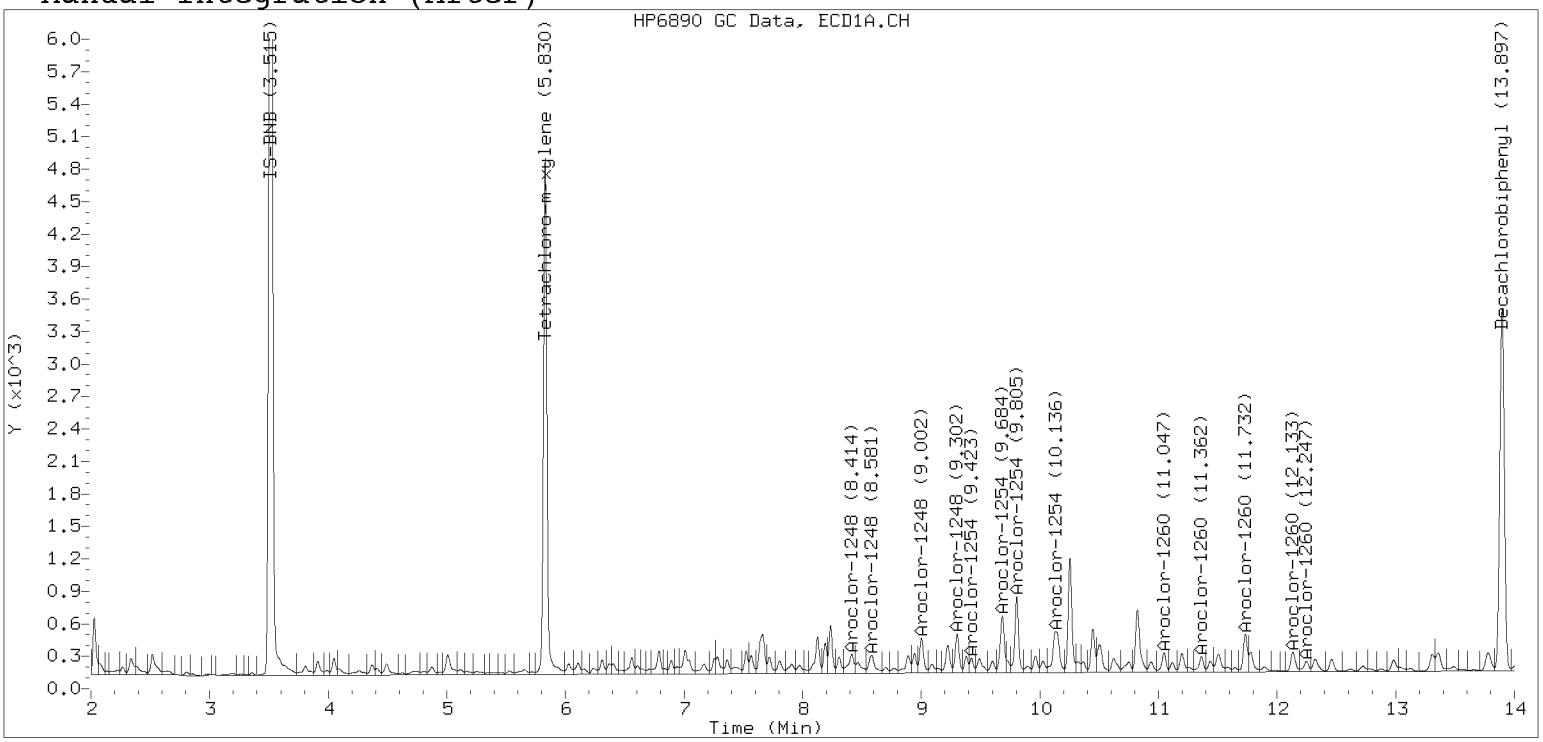


ZB-35 Manual Integration: YES

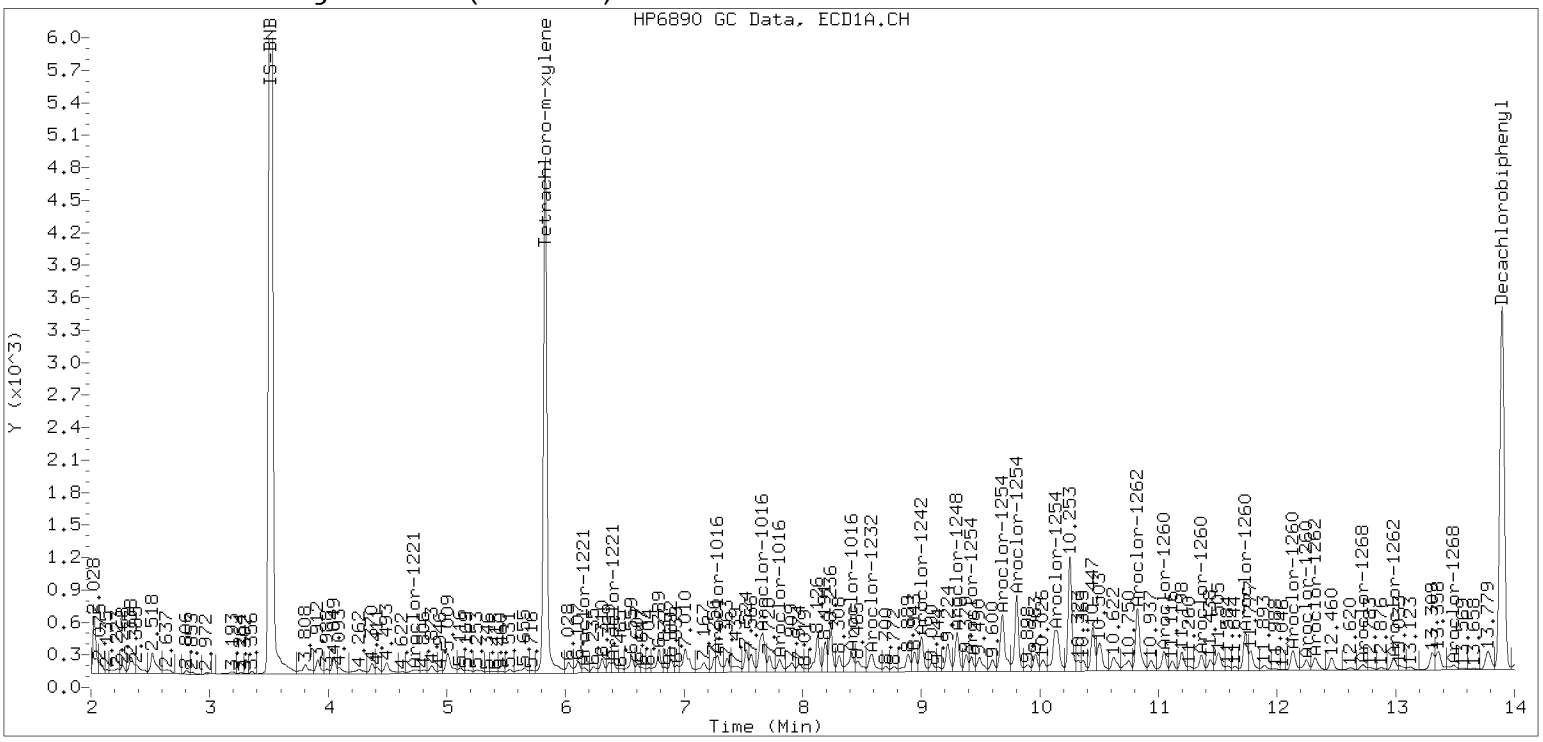
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221217.b/12172220ECD7.D Injection Date: 17-DEC-2022 16:00

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SS811

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0136
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0136-07 A	File ID:	12172221ECD7.D
Sampled:	12/06/22 12:05	Prepared:	12/08/22 14:38	Analyzed:	12/17/22 16:21
% Solids:	47.52	Preparation:	EPA 3546 (Microwave)	Initial/Final:	26.33 g Wet / 2.5 mL
Batch:	BKL0190	Sequence:	SKL0280	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	24.5	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	35.6	1.6	4.0	
11096-82-5	Aroclor 1260	1	1	29.8	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9923*	*8.05*	*101*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9923*	*6.12*	*76.5*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9923*	*6.89*	*86.3*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9923*	*6.55*	*81.9*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172221ECD7.D
Data file 2: /221217.b/221217.b/12172221ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0136-07
Client ID:
Injection Date: 17-DEC-2022 16:21
Report Date: 12/20/2022 15:08
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.828	-0.008	196930	5.706	-0.005	120039	30.6	32.8	6.8	Tetrachloro-m-xylene
13.897	-0.011	167576	14.127	-0.007	158046	40.3	34.5	15.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	454011	1.4
Hexabromobiphenyl	798898	453809	-43.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	267237	7.3
Hexabromobiphenyl	362541	322642	-11.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.413	-0.015	18807	96.3	1	8.316	-0.008	13816	126.6
Aroclor-1248	2	8.581	-0.023	16006	64.2	2	8.721	-0.009	11516	100.3
Aroclor-1248	3	8.999	-0.024	43688	97.4	3	9.153	-0.022	17591	125.9
Aroclor-1248	4	9.301	-0.010	50957	232.0	4	9.548	-0.050	30002	183.0
		Total Col1Ave (4 peaks):			122.5		Total Col2Ave (4 peaks):			133.9 RPD = 9
		Corrected Ave (3 peaks):			86.0		Corrected Ave (3 peaks):			117.6 RPD = 31
Aroclor-1254	1	9.301	-0.020	50957	127.5	1	9.453	-0.011	31035	180.1
Aroclor-1254	2	9.421	0.019	4838	31.1	2	9.971	-0.010	16747	120.9
Aroclor-1254	3	9.674	-0.020	46701	185.0	3	10.120	-0.015	52695	177.0
Aroclor-1254	4	9.801	-0.030	74840	152.1	4	10.363	-0.019	72274	234.4
Aroclor-1254	5	10.134	-0.056	91339	270.8	5	10.568	-0.011	44850	301.6
		Total Col1Ave (5 peaks):			153.3		Total Col2Ave (5 peaks):			202.8 RPD = 28
		Corrected Ave (4 peaks):			123.9		Corrected Ave (4 peaks):			178.1 RPD = 36
Aroclor-1260	1	11.046	-0.017	25595	154.9	1	11.657	-0.010	23786	139.7
Aroclor-1260	2	11.359	-0.018	21112	123.6	2	11.917	-0.013	43696	102.2
Aroclor-1260	3	11.730	-0.022	66360	147.8	3	12.435	-0.014	22747	199.9
Aroclor-1260	4	12.131	-0.027	33721	147.5	4	12.500	-0.013	32664	114.7
Aroclor-1260	5	12.246	-0.015	16199	173.1	NS	---			----
		Total Col1Ave (5 peaks):			149.4		Total Col2Ave (4 peaks):			139.1 RPD = 7
		Corrected Ave (4 peaks):			143.5		Corrected Ave (3 peaks):			118.9 RPD = 19
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.936 - 13.808) = 1409546 Col1 Total PCB = 0.3 ppm*

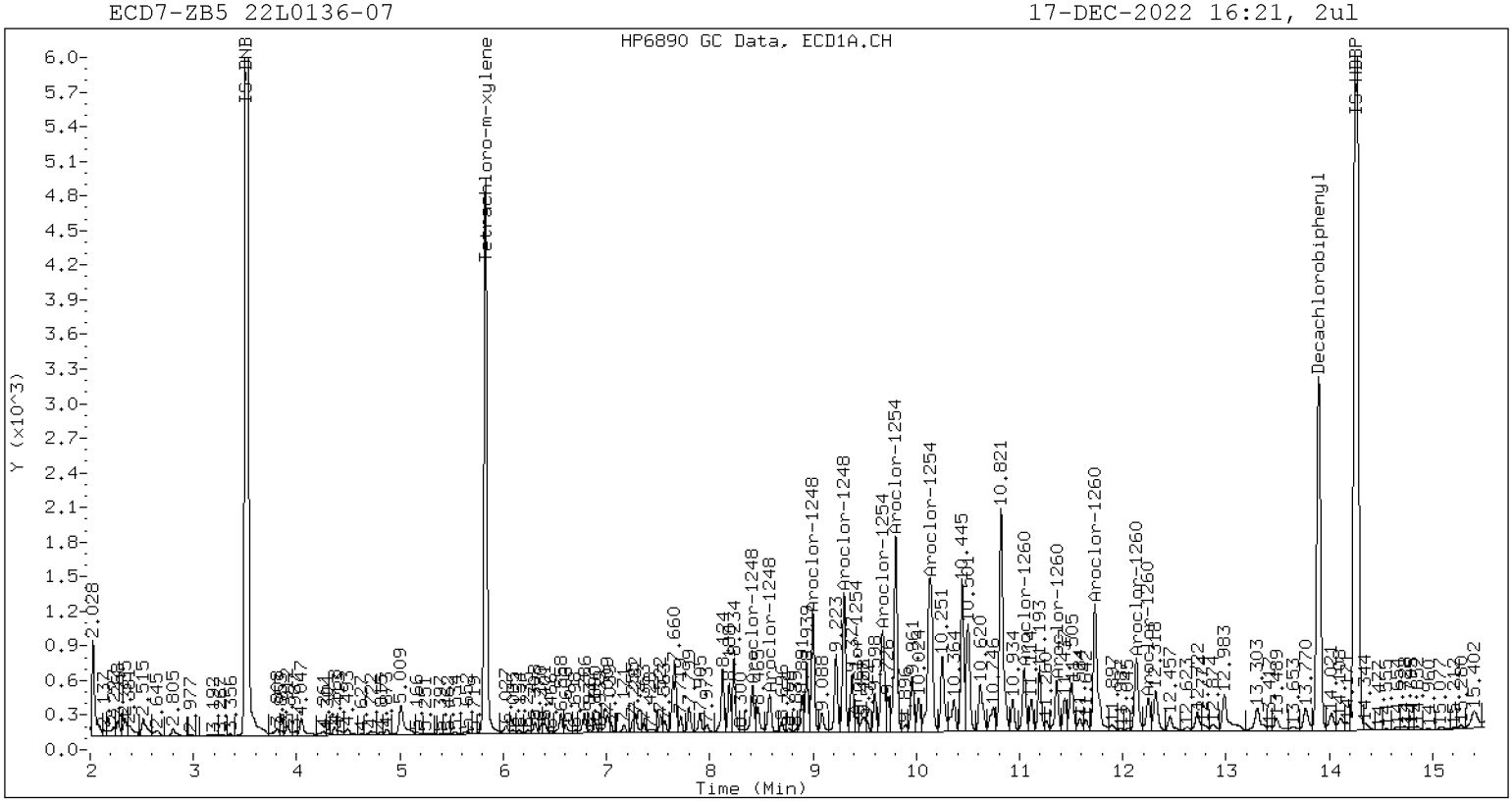
Total PCB Area Col2 (5.936 - 13.808) = 953631 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

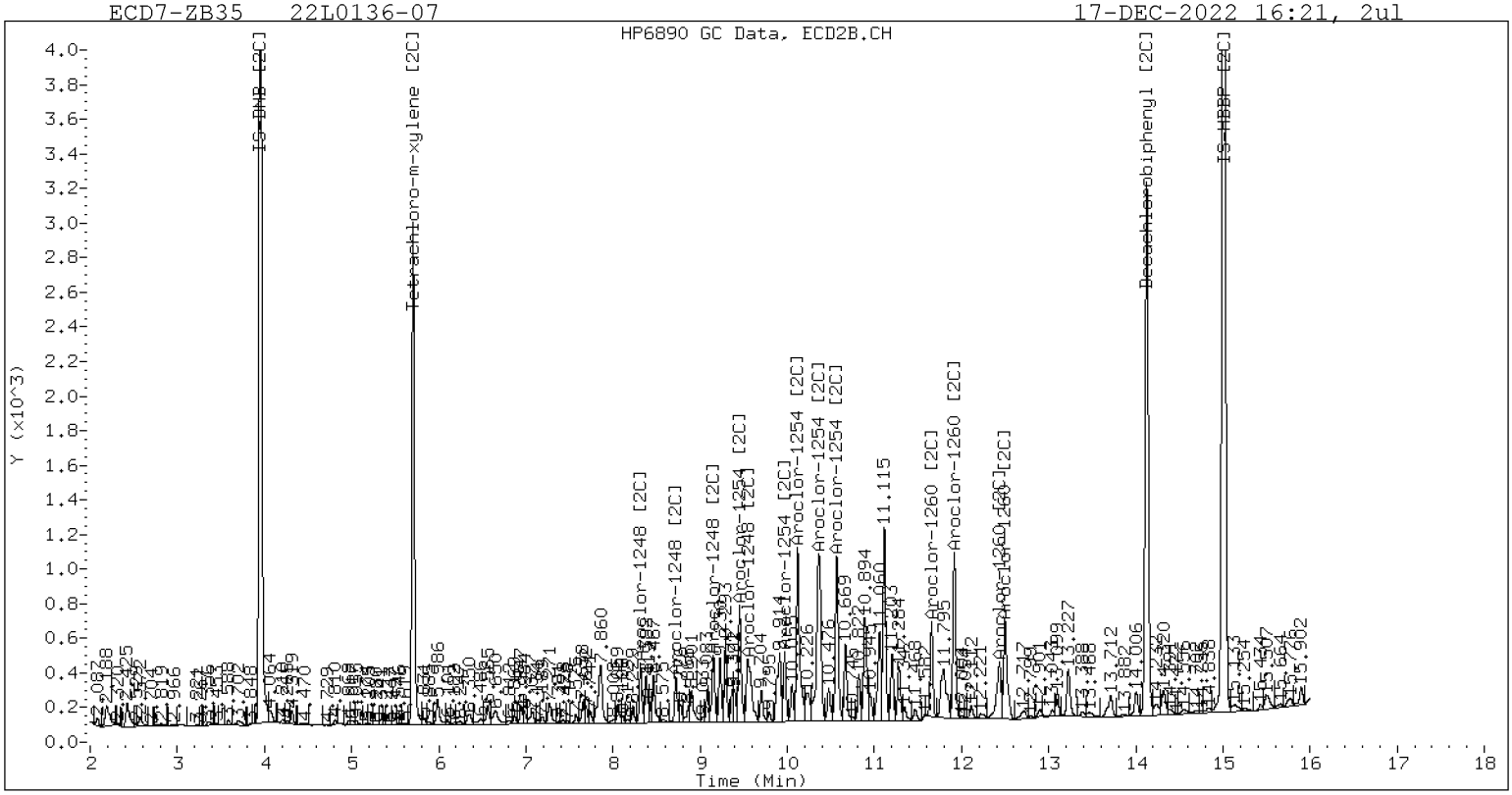
PCB Dual Column Chromatograms

ECD7-ZB5 22L0136-07 17-DEC-2022 16:21, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0136-07 17-DEC-2022 16:21, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SS786

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0136
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0136-08 A	File ID:	12172222ECD7.D
Sampled:	12/06/22 12:26	Prepared:	12/08/22 14:38	Analyzed:	12/17/22 16:42
% Solids:	65.93	Preparation:	EPA 3546 (Microwave)	Initial/Final:	18.95 g Wet / 2.5 mL
Batch:	BKL0190	Sequence:	SKL0280	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	2	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	2	1	88.9	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	43.4	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*8.0040*	*7.32*	*91.5*	*40 - 126*	
Tetrachlorometaxylene	*1*	*8.0040*	*5.93*	*74.1*	*44 - 120*	
Decachlorobiphenyl	*2*	*8.0040*	*6.64*	*82.9*	*40 - 126*	
Tetrachlorometaxylene	*2*	*8.0040*	*6.02*	*75.2*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172222ECD7.D
Data file 2: /221217.b/221217.b/12172222ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0136-08
Client ID:
Injection Date: 17-DEC-2022 16:42
Report Date: 12/20/2022 15:08
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.829	-0.007	196816	5.706	-0.004	116745	29.6	30.1	1.6	Tetrachloro-m-xylene
13.897	-0.010	160676	14.127	-0.007	149256	36.6	33.2	9.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	468815	4.7
Hexabromobiphenyl	798898	479155	-40.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	283012	13.6
Hexabromobiphenyl	362541	316979	-12.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.414	-0.013	27106	134.5	1	8.317	-0.008	25342	219.2
Aroclor-1248	2	8.583	-0.022	17946	69.7	2	8.723	-0.007	17657	145.2
Aroclor-1248	3	9.002	-0.020	100773	217.7	3	9.157	-0.019	27631	186.8
Aroclor-1248	4	9.302	-0.009	143976	634.8	4	9.633	0.035	4093	23.6
	Total Col1Ave (4 peaks):				264.2	Total Col2Ave (4 peaks):				143.7 RPD = 59*
	Corrected Ave (3 peaks):				140.6	Corrected Ave (3 peaks):				118.5 RPD = 17
Aroclor-1254	1	9.302	-0.019	143976	348.8	1	9.454	-0.010	76584	419.7
Aroclor-1254	2	9.378	-0.024	64029	398.9	2	9.972	-0.009	46871	319.5
Aroclor-1254	3	9.669	-0.025	93720	359.5	3	10.121	-0.013	139510	442.4
Aroclor-1254	4	9.803	-0.028	195901	385.5	4	10.362	-0.020	155392	475.8
Aroclor-1254	5	10.144	-0.045	228574	656.2	5	10.569	-0.010	88789	563.7
	Total Col1Ave (5 peaks):				429.8	Total Col2Ave (5 peaks):				444.2 RPD = 3
	Corrected Ave (4 peaks):				373.2	Corrected Ave (4 peaks):				414.4 RPD = 10
Aroclor-1260	1	11.047	-0.016	39969	229.2	1	11.658	-0.009	52053	311.1
Aroclor-1260	2	11.363	-0.014	37328	206.9	2	11.918	-0.012	77073	183.6
Aroclor-1260	3	11.732	-0.020	96767	204.2	3	12.438	-0.011	21566	192.9
Aroclor-1260	4	12.134	-0.024	56945	235.9	4	12.502	-0.012	50228	179.5
Aroclor-1260	5	12.246	-0.015	18905	191.3	NS	---			----
	Total Col1Ave (5 peaks):				213.5	Total Col2Ave (4 peaks):				216.8 RPD = 2
	Corrected Ave (4 peaks):				207.9	Corrected Ave (3 peaks):				185.3 RPD = 11
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.936 - 13.808) = 2487968 Col1 Total PCB = 0.5 ppm*

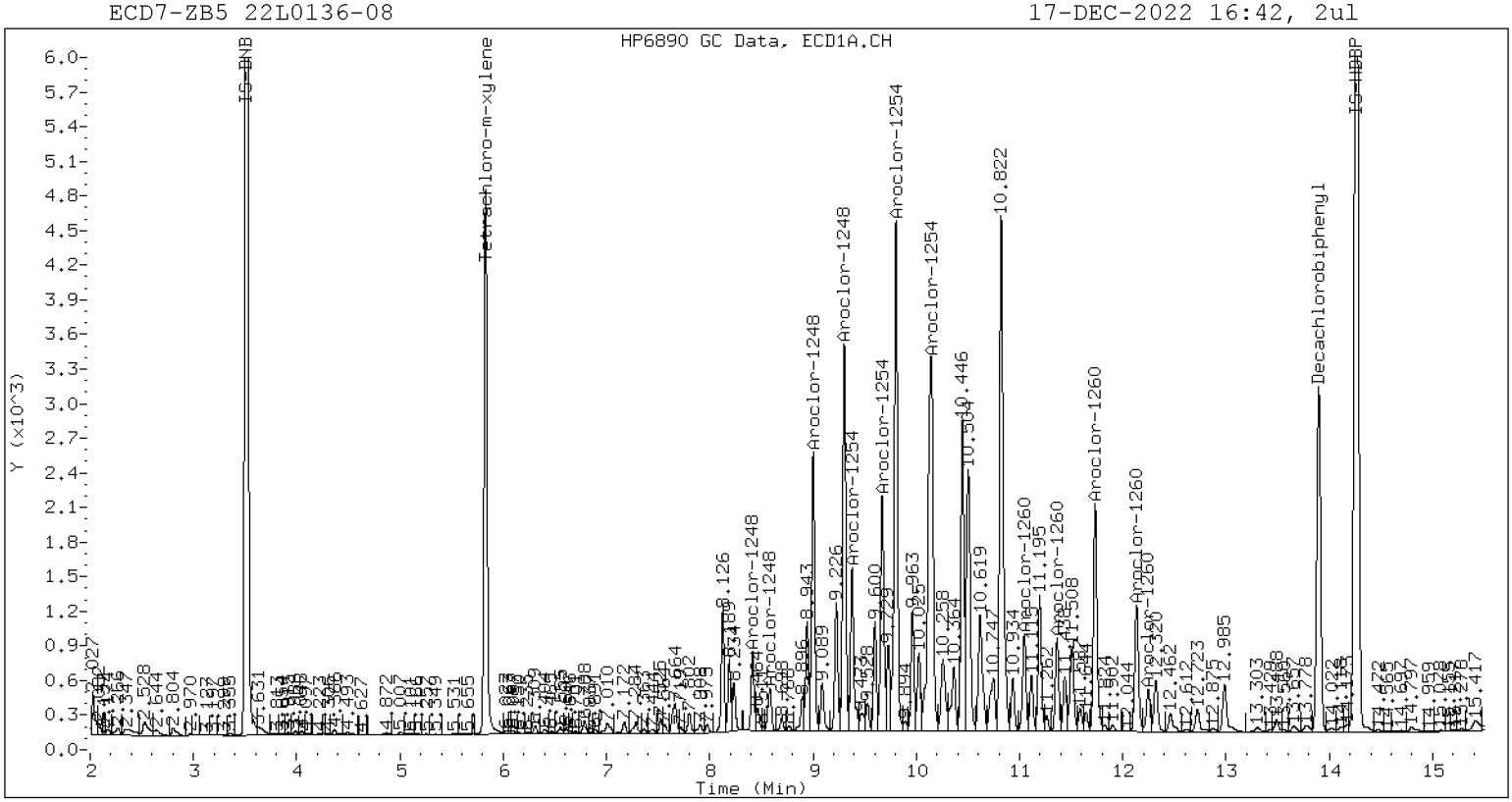
Total PCB Area Col2 (5.936 - 13.808) = 1651866 Col2 Total PCB = 0.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

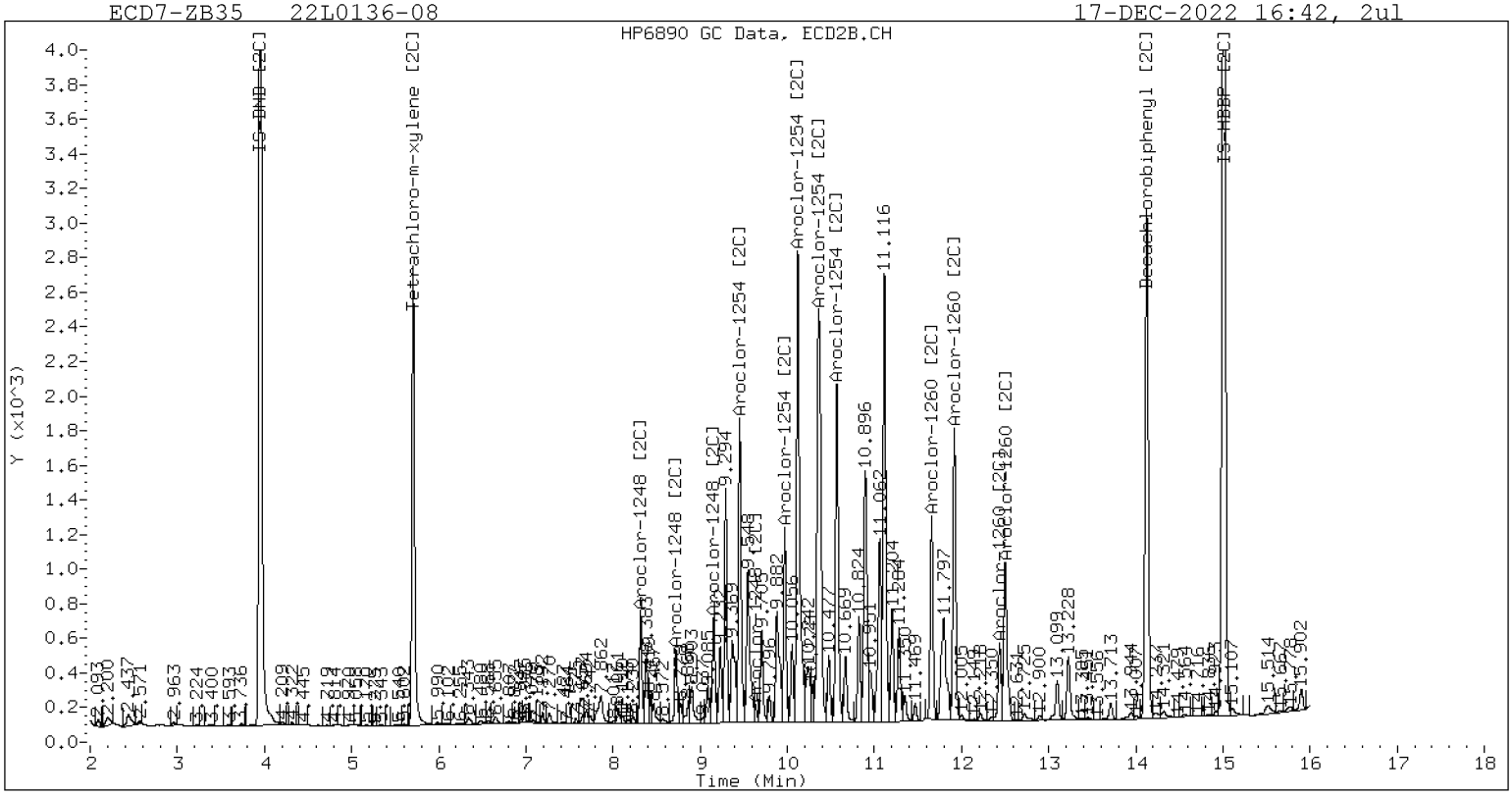
PCB Dual Column Chromatograms

ECD7-ZB5 22L0136-08 17-DEC-2022 16:42, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0136-08 17-DEC-2022 16:42, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SS766

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0136
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0136-09RE1 A	File ID:	12262244ECD7.D
Sampled:	12/06/22 13:16	Prepared:	12/22/22 16:19	Analyzed:	12/27/22 07:01
% Solids:	75.46	Preparation:	EPA 3546 (Microwave)	Initial/Final:	16.59 g Wet / 2.5 mL
Batch:	BKL0548	Sequence:	SKL0359	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	2	1	10.6	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	14.9	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	23.0	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9880*	*8.34*	*104*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9880*	*6.45*	*80.7*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9880*	*8.31*	*104*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9880*	*7.02*	*87.9*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221226.b/12262244ECD7.D
Data file 2: /221226.b/221226.b/12262244ECD7.D
Method: \\target\share\chem4\ecd7.i\221226.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0136-09 RE1
Client ID:
Injection Date: 27-DEC-2022 07:01
Report Date: 12/30/2022 17:01
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.828	-0.003	241958	5.706	-0.002	154963	32.3	35.2	8.6	Tetrachloro-m-xylene
13.897	-0.004	278923	14.123	-0.004	243185	41.7	41.6	0.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	529002	18.2
Hexabromobiphenyl	798898	728824	-8.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	321434	29.0
Hexabromobiphenyl	362541	411761	13.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.413	-0.008	10829	47.6	1	8.314	-0.006	5531	42.1
Aroclor-1248	2	8.582	-0.014	9919	34.2	2	8.719	-0.006	6059	43.9
Aroclor-1248	3	9.000	-0.016	18756	35.9	3	9.154	-0.015	8313	49.5
Aroclor-1248	4	9.301	-0.008	21316	83.3	4	9.546	-0.044	14975	75.9
		Total Col1Ave (4 peaks):			50.2		Total Col2Ave (4 peaks):			52.9 RPD = 5
		Corrected Ave (3 peaks):			39.2		Corrected Ave (3 peaks):			45.2 RPD = 14
Aroclor-1254	1	9.301	-0.010	21316	45.8	1	9.451	-0.007	15805	76.3
Aroclor-1254	2	9.376	-0.013	8922	49.3	2	9.968	-0.008	8334	50.0
Aroclor-1254	3	9.673	-0.008	16206	55.1	3	10.117	-0.009	26916	75.2
Aroclor-1254	4	9.802	-0.014	32130	56.0	4	10.367	-0.007	36197	97.6
Aroclor-1254	5	10.123	-0.009	29451	74.9	5	10.565	-0.007	31239	174.6
		Total Col1Ave (5 peaks):			56.2		Total Col2Ave (5 peaks):			94.7 RPD = 51*
		Corrected Ave (4 peaks):			51.5		Corrected Ave (4 peaks):			74.8 RPD = 37
Aroclor-1260	1	11.045	-0.010	31733	119.6	1	11.653	-0.008	22609	104.0
Aroclor-1260	2	11.361	-0.011	26882	98.0	2	11.914	-0.009	55355	101.5
Aroclor-1260	3	11.732	-0.012	73140	101.5	3	12.433	-0.009	21617	148.8
Aroclor-1260	4	12.132	-0.016	37181	101.3	4	12.498	-0.009	38481	105.8
Aroclor-1260	5	12.245	-0.010	20247	134.7	NS	---			----
		Total Col1Ave (5 peaks):			111.0		Total Col2Ave (4 peaks):			115.0 RPD = 4
		Corrected Ave (4 peaks):			105.1		Corrected Ave (3 peaks):			103.8 RPD = 1
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.931 - 13.801) = 1239668 Col1 Total PCB = 0.2 ppm*

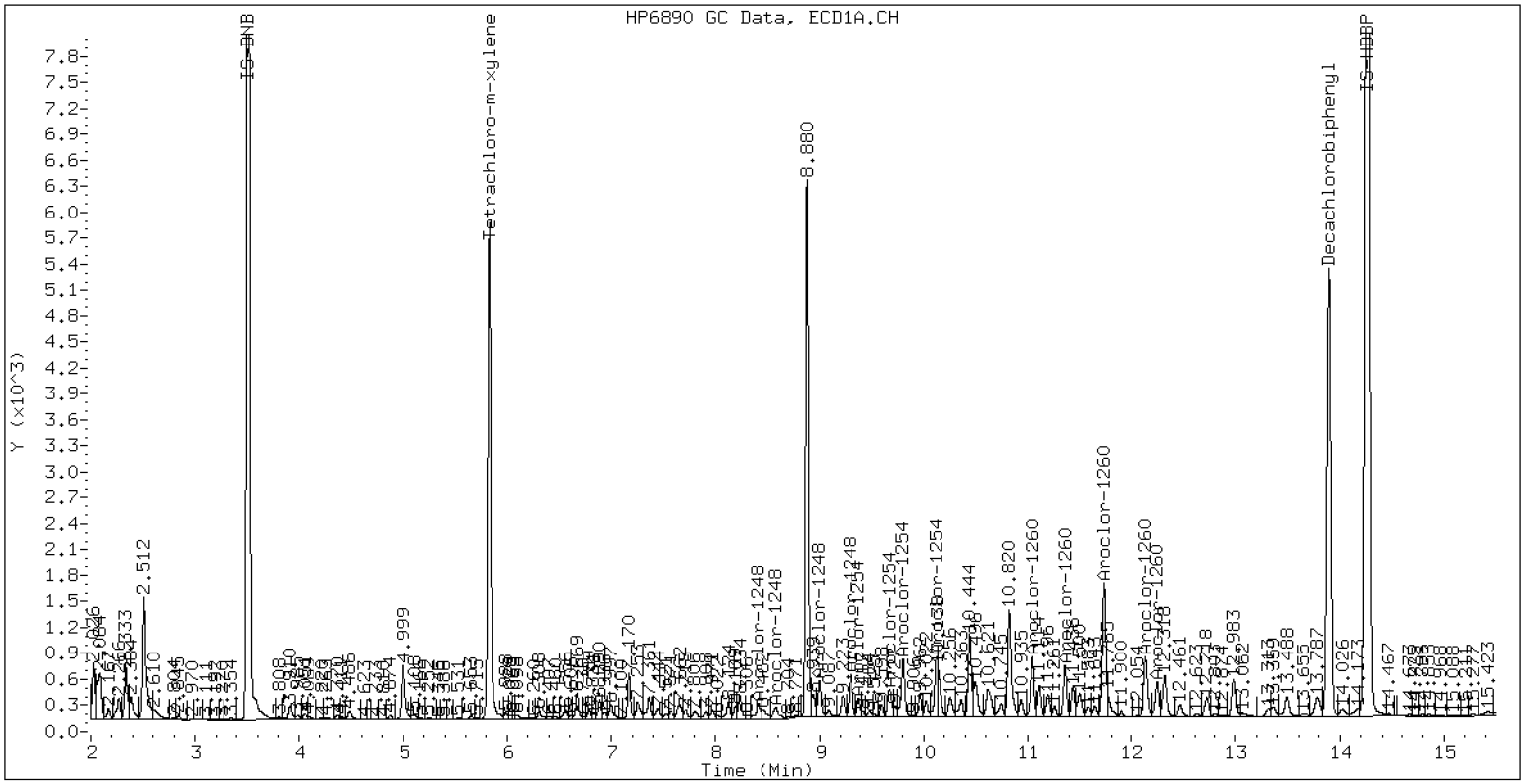
Total PCB Area Col2 (5.807 - 14.027) = 798843 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

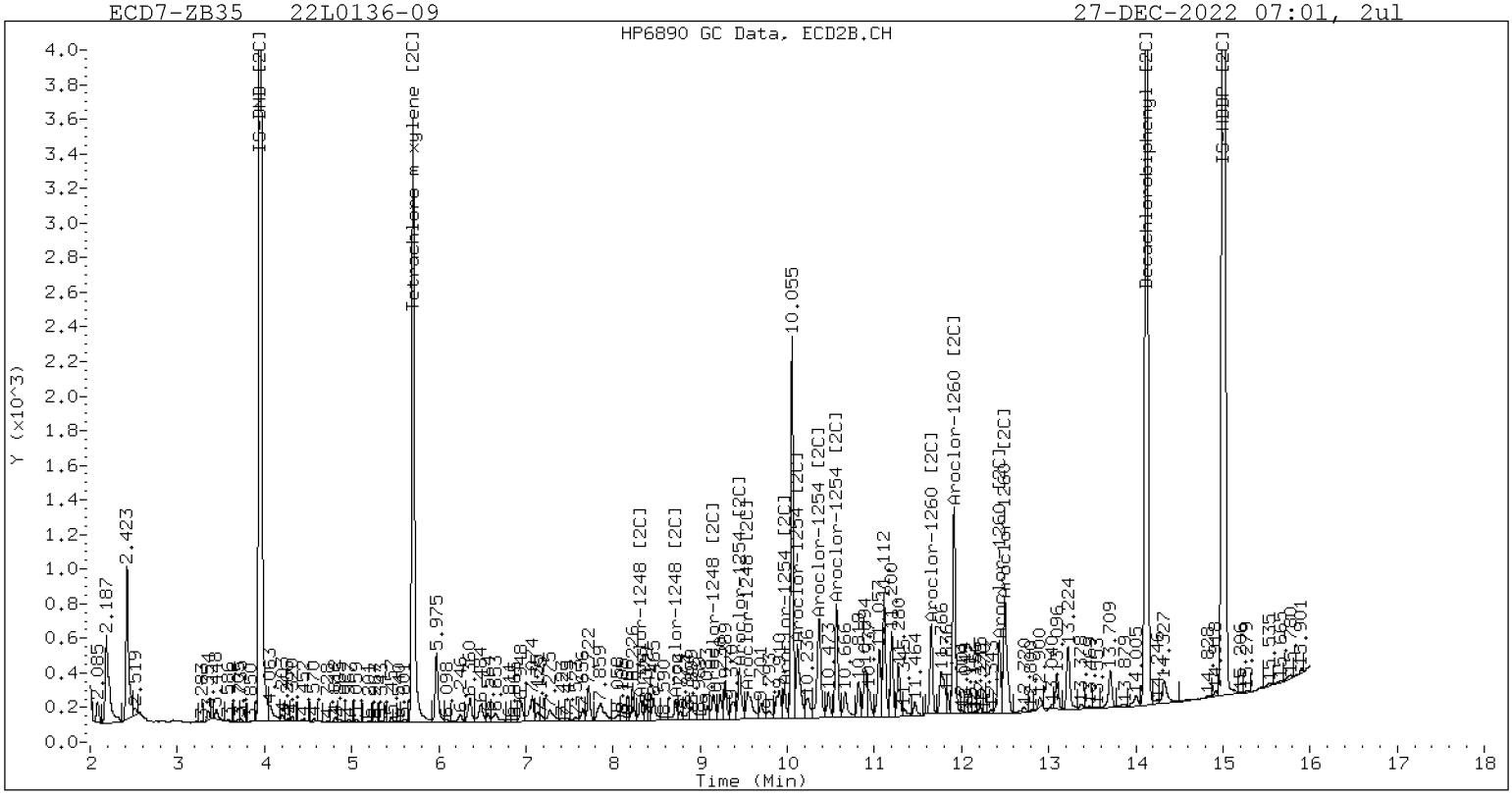
PCB Dual Column Chromatograms

ECD7-ZB5 22L0136-09 27-DEC-2022 07:01, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0136-09 27-DEC-2022 07:01, 2ul

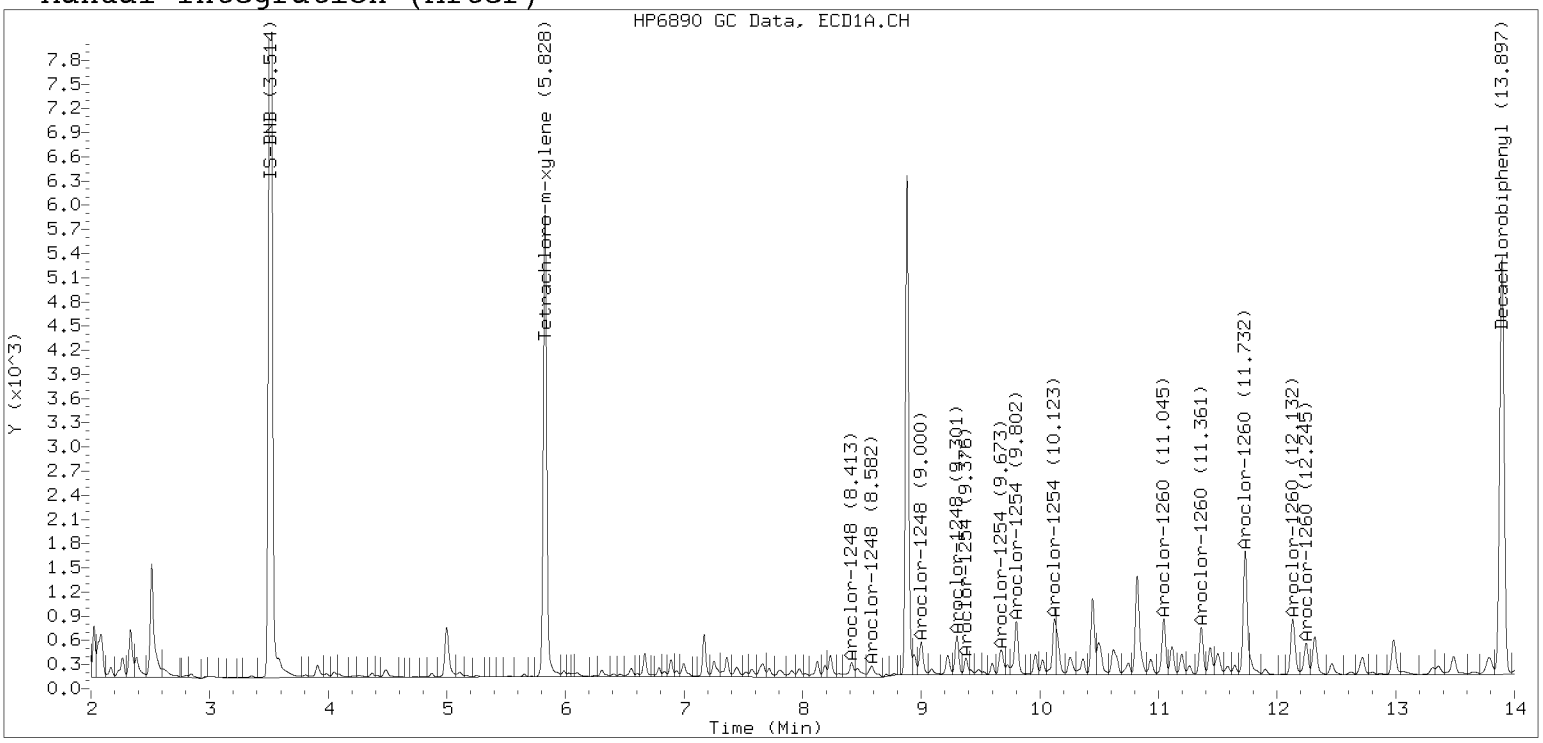


ZB-35 Manual Integration: NO

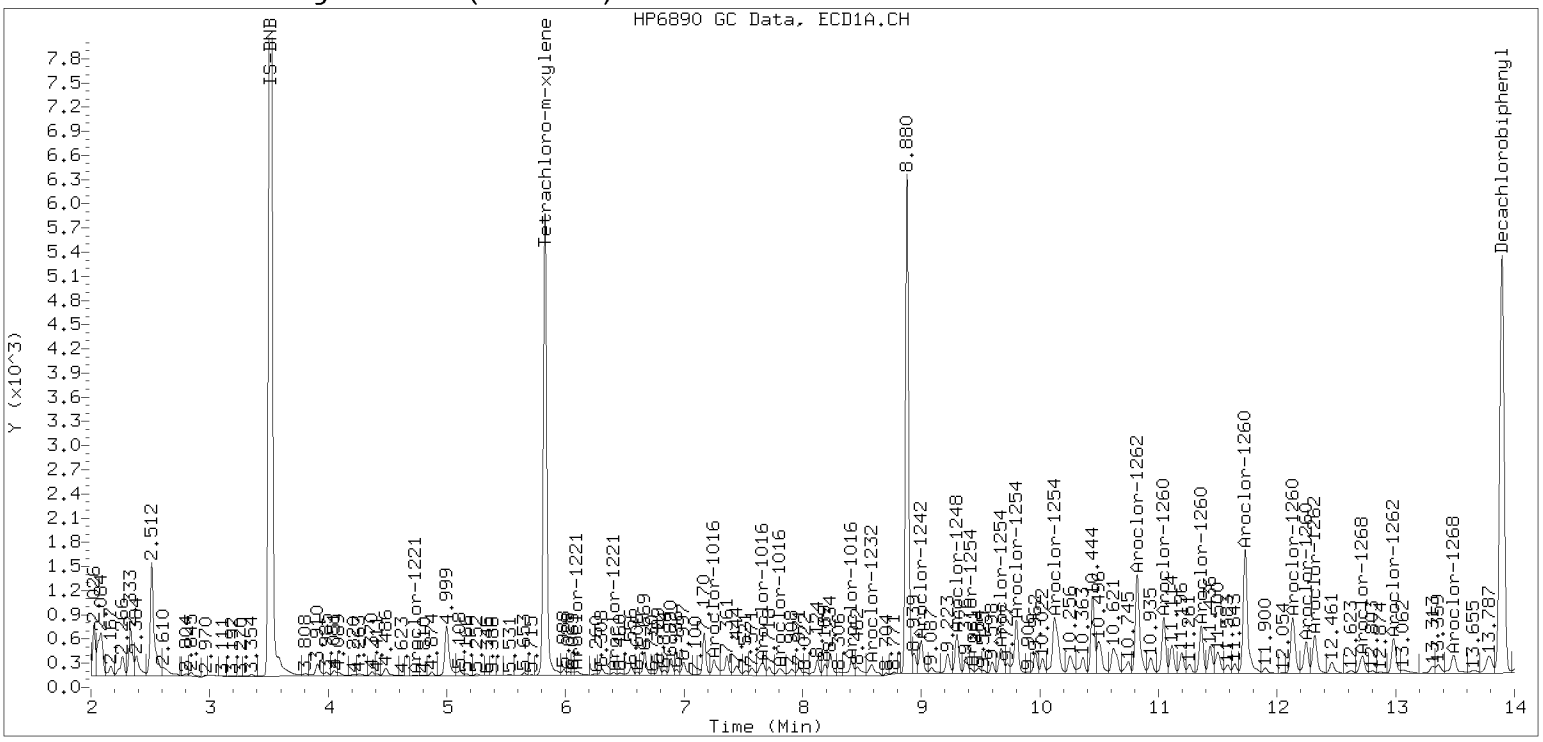
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221226.b/12262244ECD7.D Injection Date: 27-DEC-2022 07:01

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SS771

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0136
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0136-10 A	File ID:	12172224ECD7.D
Sampled:	12/06/22 13:35	Prepared:	12/08/22 14:38	Analyzed:	12/17/22 17:25
% Solids:	42.66	Preparation:	EPA 3546 (Microwave)	Initial/Final:	29.39 g Wet / 2.5 mL
Batch:	BKL0190	Sequence:	SKL0280	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	14.4	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	20.5	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	20.6	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9759*	*8.21*	*103*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9759*	*6.26*	*78.5*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9759*	*7.18*	*90.1*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9759*	*6.66*	*83.5*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172224ECD7.D
Data file 2: /221217.b/221217.b/12172224ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0136-10
Client ID:
Injection Date: 17-DEC-2022 17:25
Report Date: 12/20/2022 15:08
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.006	191037	5.707	-0.004	118896	31.4	33.4	6.2	Tetrachloro-m-xylene
13.897	-0.011	167169	14.127	-0.006	158485	41.2	36.0	13.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	429492	-4.1
Hexabromobiphenyl	798898	442756	-44.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	259633	4.2
Hexabromobiphenyl	362541	309836	-14.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.412	-0.015	11930	64.6	1	8.316	-0.008	7833	73.9
Aroclor-1248	2	8.581	-0.023	9618	40.8	2	8.722	-0.008	6285	56.3
Aroclor-1248	3	9.000	-0.023	22927	54.1	3	9.155	-0.021	10638	78.4
Aroclor-1248	4	9.300	-0.011	27011	130.0	4	9.578	-0.020	10417	65.4
		Total Col1Ave (4 peaks):			72.4		Total Col2Ave (4 peaks):			68.5 RPD = 5
		Corrected Ave (3 peaks):			53.2		Corrected Ave (3 peaks):			65.2 RPD = 20
Aroclor-1254	1	9.300	-0.021	27011	71.4	1	9.454	-0.010	20286	121.2
Aroclor-1254	2	9.420	0.018	6064	41.2	2	9.972	-0.009	9631	71.6
Aroclor-1254	3	9.680	-0.015	30257	126.7	3	10.120	-0.015	28451	98.3
Aroclor-1254	4	9.802	-0.029	44454	95.5	4	10.366	-0.016	36209	120.9
Aroclor-1254	5	10.130	-0.059	46735	146.4	5	10.569	-0.010	26817	185.6
		Total Col1Ave (5 peaks):			96.3		Total Col2Ave (5 peaks):			119.5 RPD = 22
		Corrected Ave (4 peaks):			83.7		Corrected Ave (4 peaks):			103.0 RPD = 21
Aroclor-1260	1	11.047	-0.015	14980	92.9	1	11.657	-0.010	13851	84.7
Aroclor-1260	2	11.358	-0.019	10224	61.3	2	11.917	-0.013	26381	64.3
Aroclor-1260	3	11.731	-0.020	31852	72.7	3	12.432	-0.017	20938	191.6
Aroclor-1260	4	12.130	-0.028	18949	85.0	4	12.501	-0.012	20060	73.3
Aroclor-1260	5	12.245	-0.016	12029	131.7	NS	---			----
		Total Col1Ave (5 peaks):			88.7		Total Col2Ave (4 peaks):			103.5 RPD = 15
		Corrected Ave (4 peaks):			78.0		Corrected Ave (3 peaks):			74.1 RPD = 5
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.936 - 13.808) = 956854 Col1 Total PCB = 0.2 ppm*

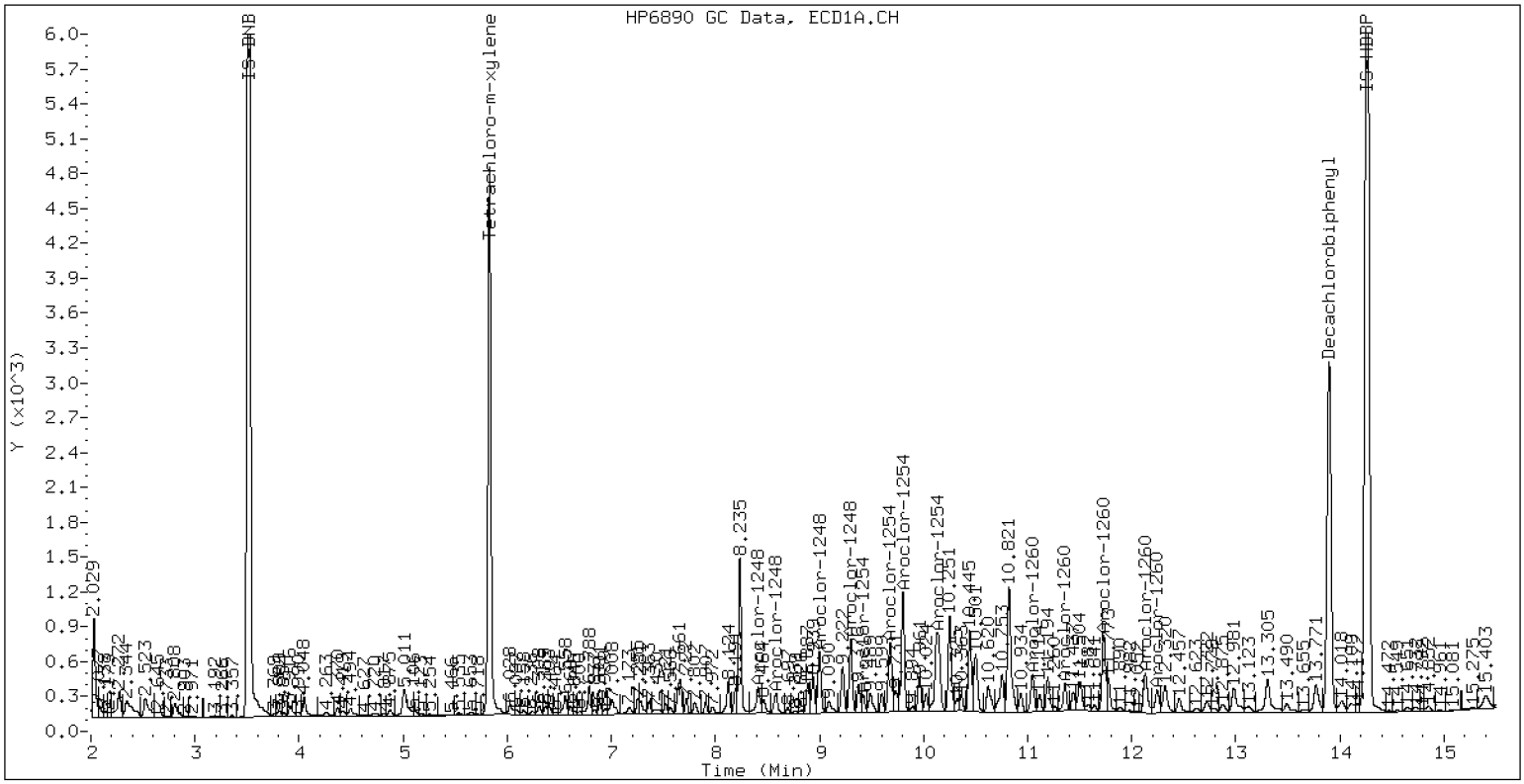
Total PCB Area Col2 (5.936 - 13.808) = 674721 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

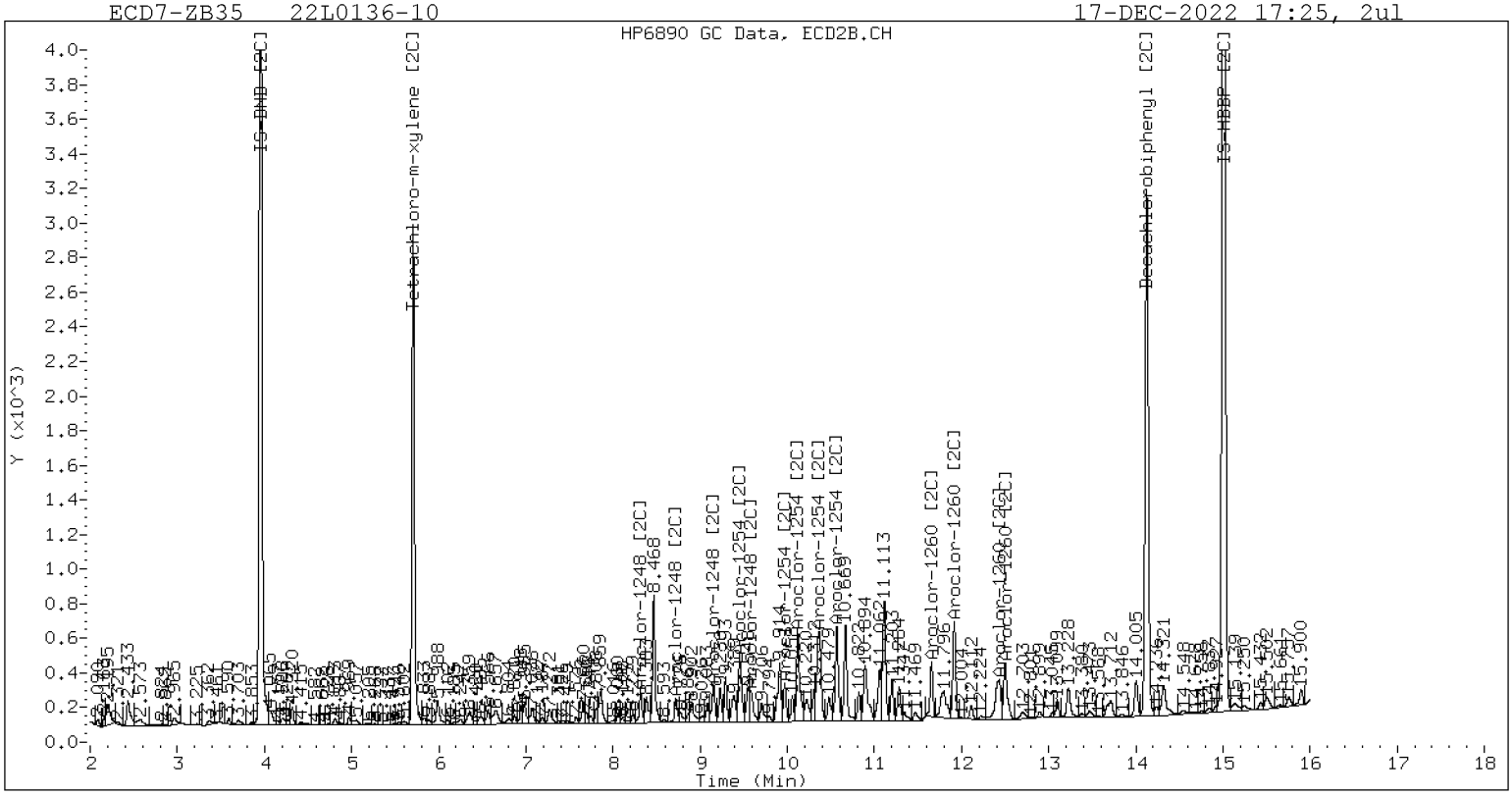
PCB Dual Column Chromatograms

ECD7-ZB5 22L0136-10 17-DEC-2022 17:25, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0136-10 17-DEC-2022 17:25, 2ul

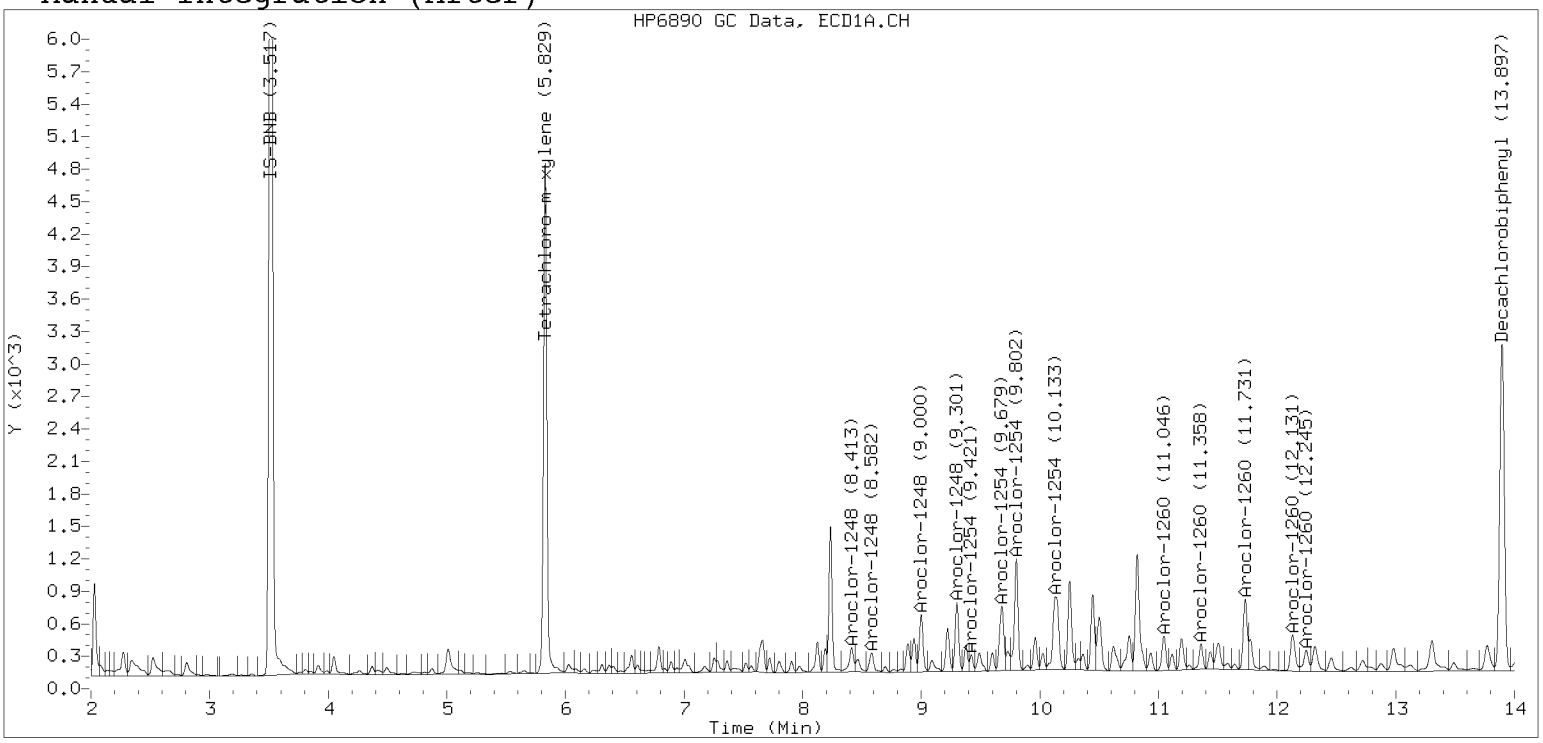


ZB-35 Manual Integration: NO

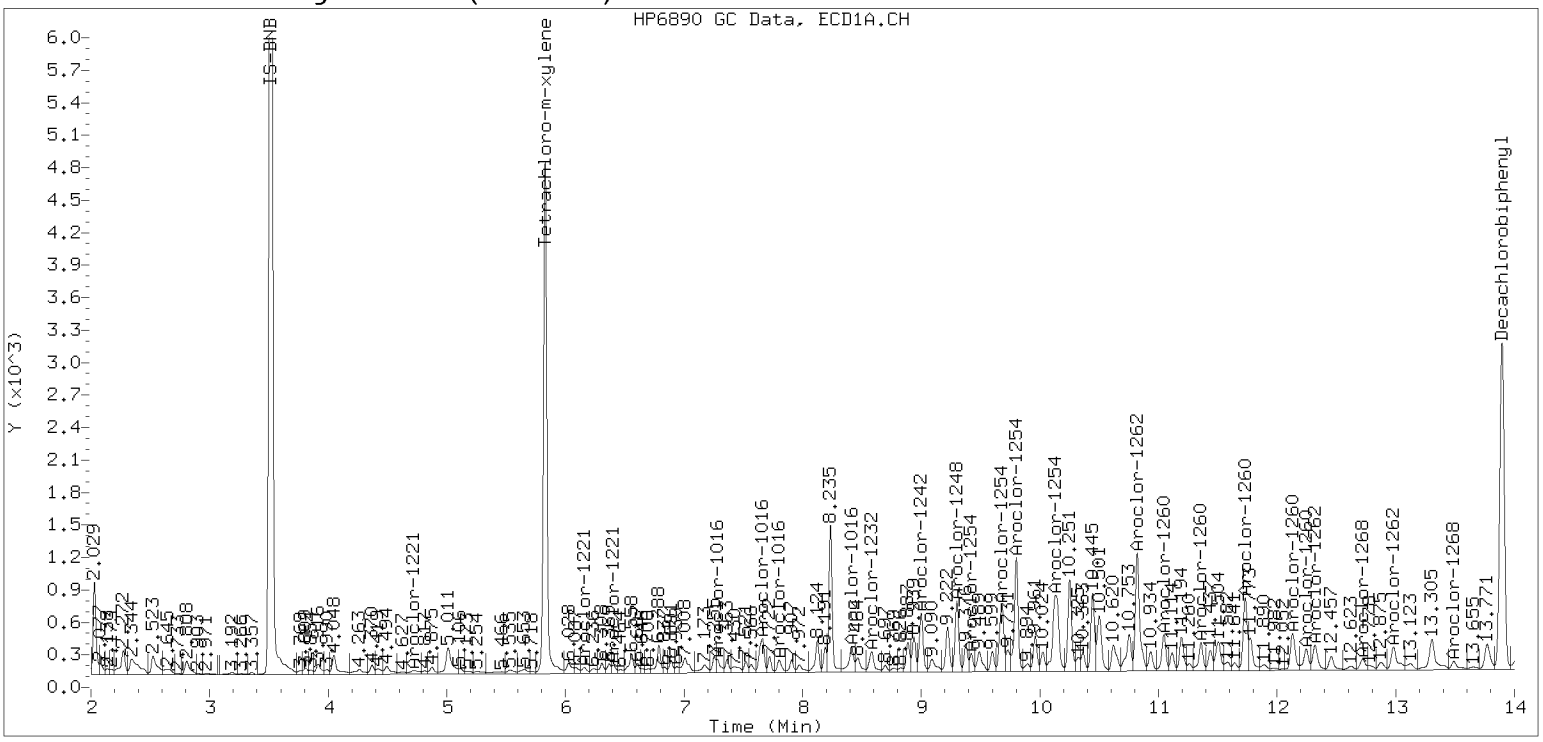
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221217.b/12172224ECD7.D Injection Date: 17-DEC-2022 17:25

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SS771-FD

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0136
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0136-11RE1 A	File ID:	12262247ECD7.D
Sampled:	12/06/22 13:35	Prepared:	12/22/22 16:19	Analyzed:	12/27/22 08:05
% Solids:	42.54	Preparation:	EPA 3546 (Microwave)	Initial/Final:	29.38 g Wet / 2.5 mL
Batch:	BKL0548	Sequence:	SKL0359	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	2	1	16.0	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*8.0011*	*7.74*	*96.7*	*40 - 126*	
Tetrachlorometaxylene	*1*	*8.0011*	*5.39*	*67.4*	*44 - 120*	
Decachlorobiphenyl	*2*	*8.0011*	*7.63*	*95.4*	*40 - 126*	
Tetrachlorometaxylene	*2*	*8.0011*	*6.36*	*79.5*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221226.b/12262247ECD7.D
Data file 2: /221226.b/221226.b/12262247ECD7.D
Method: \\target\share\chem4\ecd7.i\221226.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0136-11
Client ID:
Injection Date: 27-DEC-2022 08:05
Report Date: 12/29/2022 12:30
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.827	-0.004	196543	5.703	-0.004	133728	27.0	31.8	16.4	Tetrachloro-m-xylene
13.895	-0.006	178460	14.122	-0.005	183439	38.7	38.2	1.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	514409	14.9
Hexabromobiphenyl	798898	503227	-37.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	306904	23.2
Hexabromobiphenyl	362541	338517	-6.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	11.042	-0.013	17944	98.0	1	11.651	-0.010	15292	85.6
Aroclor-1260	2	11.354	-0.017	11211	59.2	2	11.912	-0.011	29767	66.4
Aroclor-1260	3	11.770	0.026	15335	30.8	3	12.412	-0.031	10667	89.3
Aroclor-1260	4	12.128	-0.020	18848	74.4	4	12.495	-0.012	23342	78.1
Aroclor-1260	5	12.241	-0.013	9574	92.3	NS	---			----
		Total Col1Ave (5 peaks):			70.9	Total Col2Ave (4 peaks):				79.8 RPD = 12
		Corrected Ave (4 peaks):			64.1	Corrected Ave (3 peaks):				76.7 RPD = 18
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.931 - 13.801) = 1311936 Col1 Total PCB = 0.3 ppm*

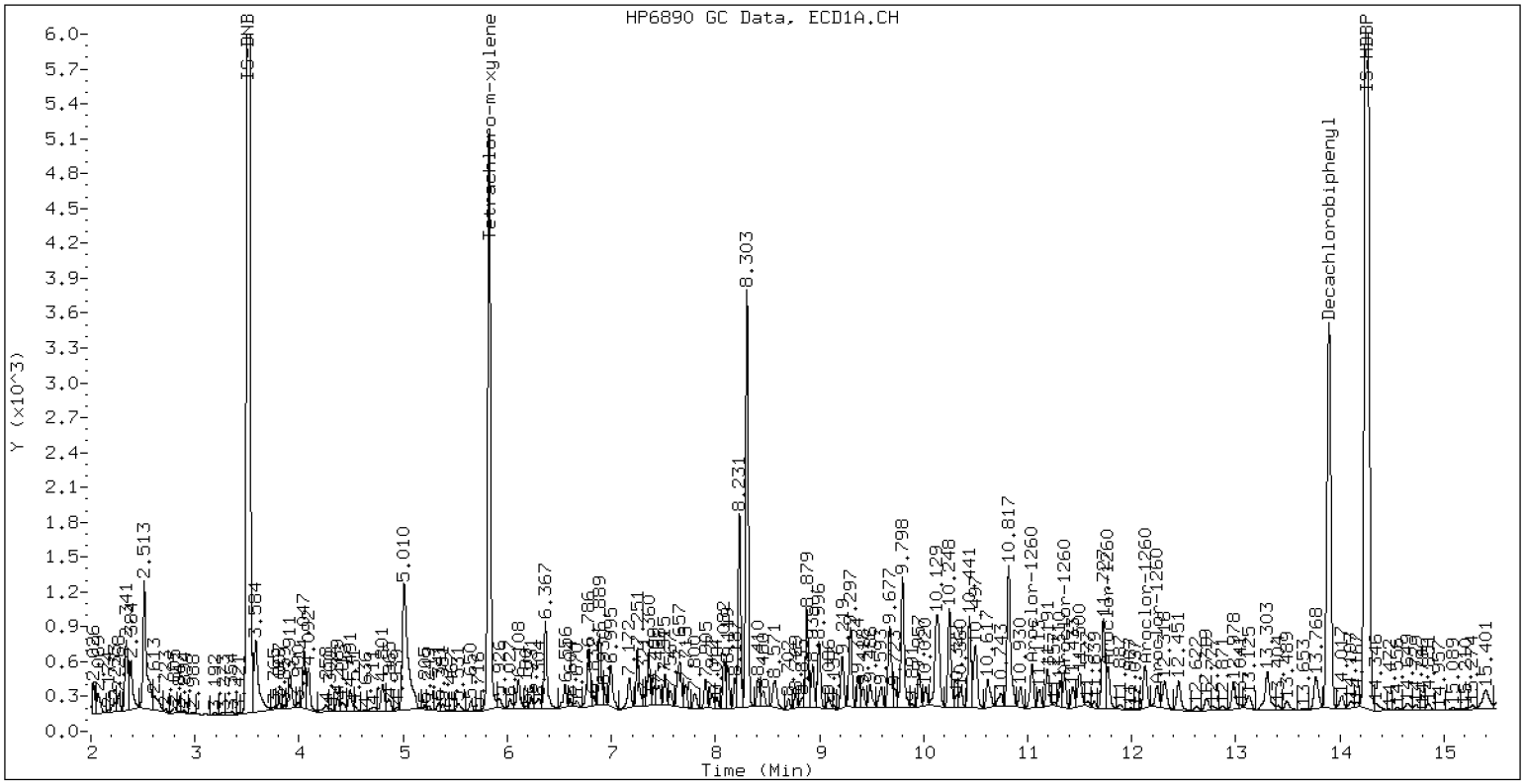
Total PCB Area Col2 (5.807 - 14.027) = 1029489 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

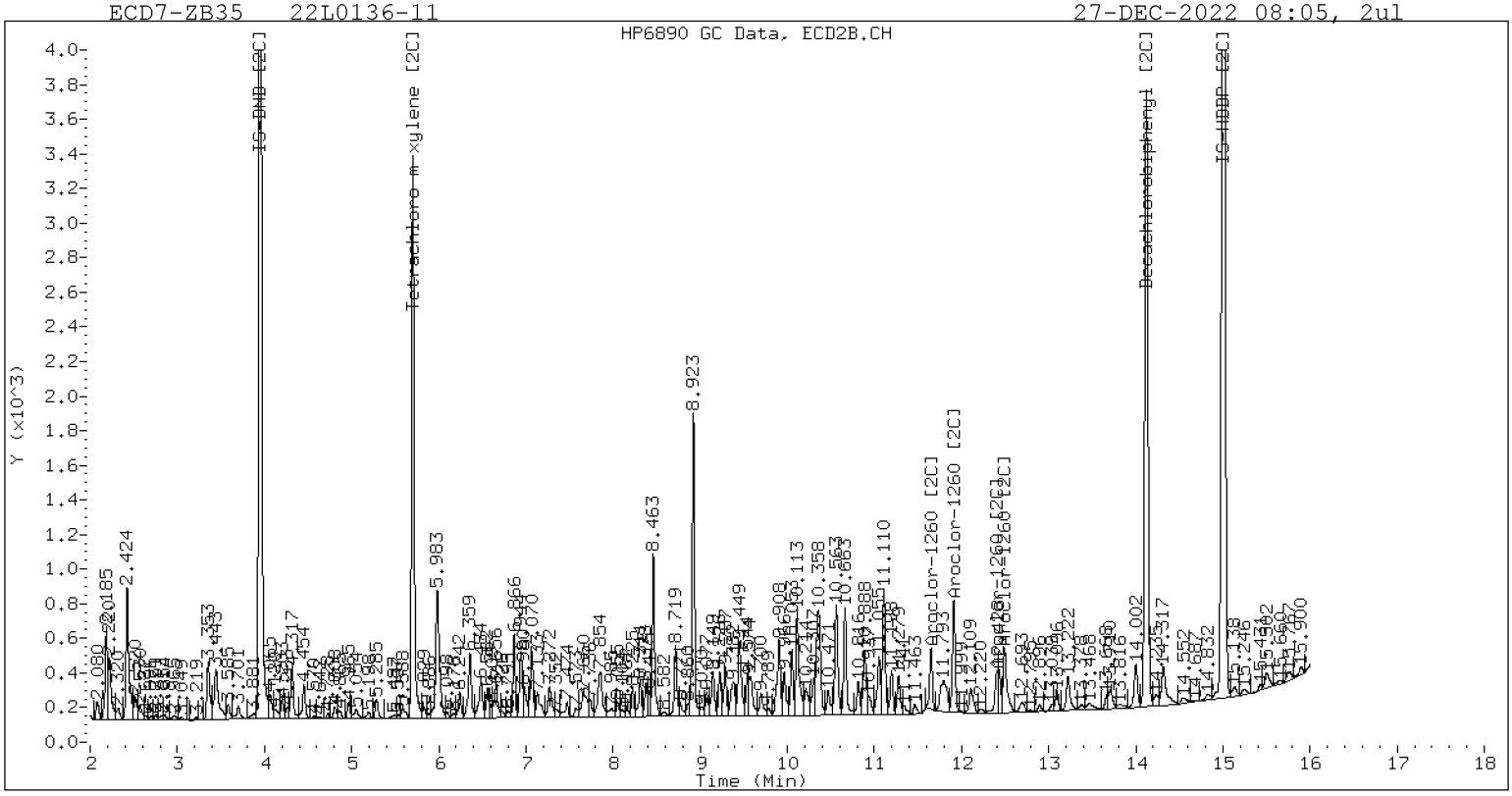
PCB Dual Column Chromatograms

ECD7-ZB5 22L0136-11 27-DEC-2022 08:05, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0136-11 27-DEC-2022 08:05, 2ul

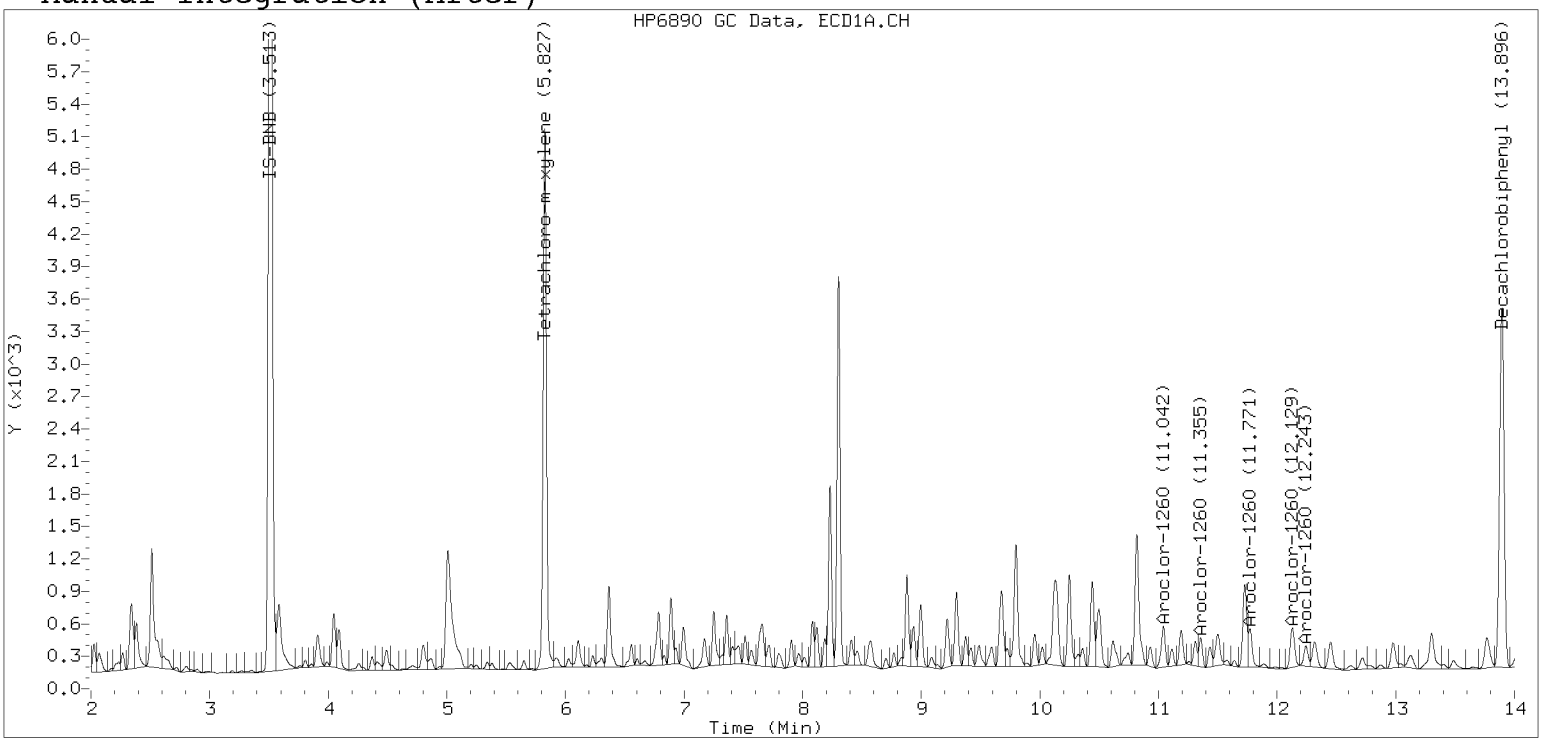


ZB-35 Manual Integration: YES

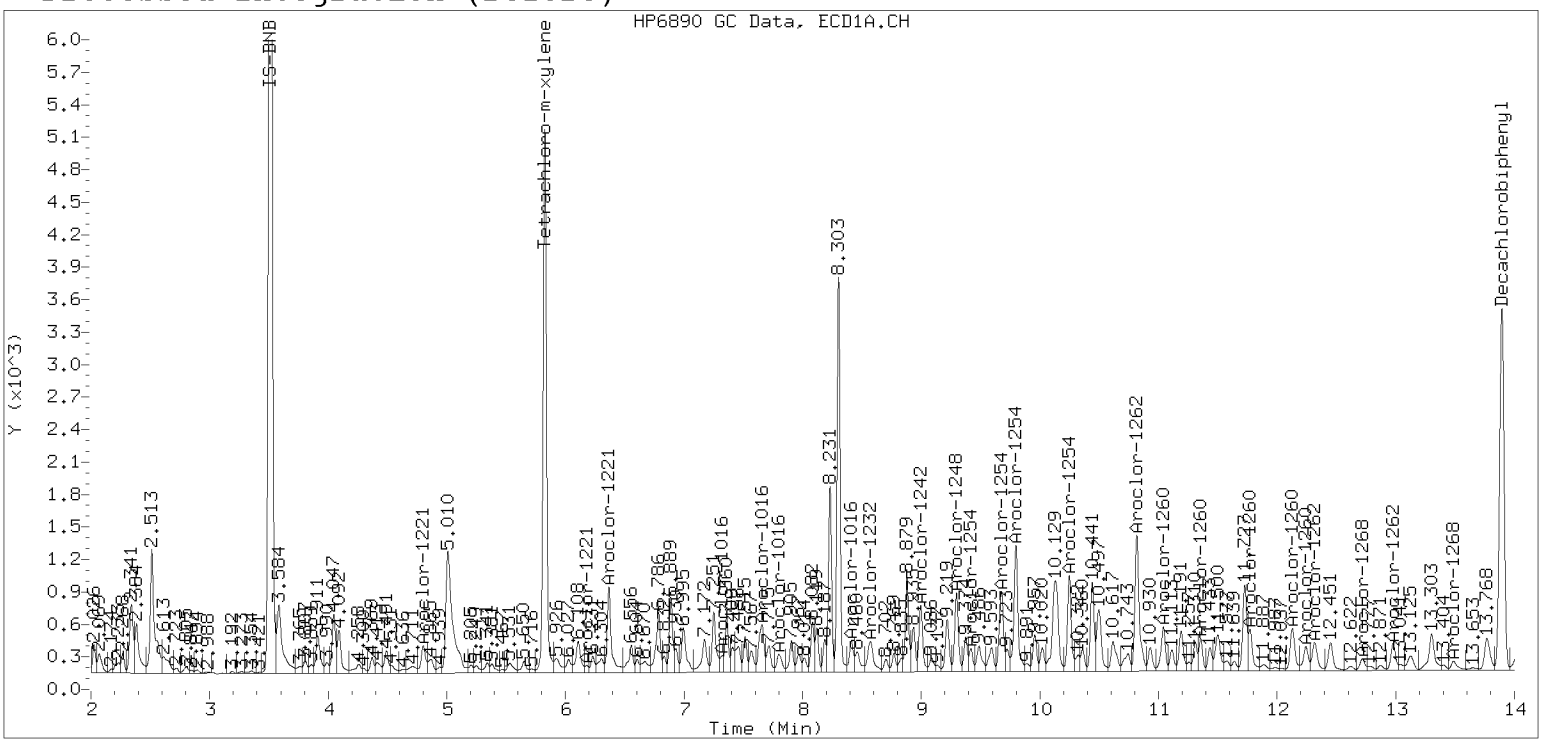
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221226.b/12262247ECD7.D Injection Date: 27-DEC-2022 08:05

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SS772

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0136
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0136-12 A	File ID:	12172226ECD7.D
Sampled:	12/06/22 13:57	Prepared:	12/08/22 14:38	Analyzed:	12/17/22 18:07
% Solids:	38.91	Preparation:	EPA 3546 (Microwave)	Initial/Final:	32.16 g Wet / 2.5 mL
Batch:	BKL0190	Sequence:	SKL0280	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	12.1	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	17.3	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	16.6	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9914*	*7.91*	*98.9*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9914*	*6.16*	*77.1*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9914*	*6.81*	*85.2*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9914*	*6.28*	*78.6*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172226ECD7.D
Data file 2: /221217.b/221217.b/12172226ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0136-12
Client ID:
Injection Date: 17-DEC-2022 18:07
Report Date: 12/20/2022 15:08
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.828	-0.008	201515	5.706	-0.005	118150	30.8	31.4	1.9	Tetrachloro-m-xylene
13.897	-0.010	184281	14.127	-0.006	165850	39.6	34.1	14.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	461193	3.0
Hexabromobiphenyl	798898	508026	-36.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	274295	10.1
Hexabromobiphenyl	362541	342634	-5.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.416	-0.011	10716	54.0	1	8.317	-0.008	6725	60.0
Aroclor-1248	2	8.583	-0.021	9044	35.7	2	8.723	-0.007	5580	47.3
Aroclor-1248	3	9.001	-0.022	20090	44.1	3	9.156	-0.020	9380	65.4
Aroclor-1248	4	9.302	-0.009	24375	109.2	4	9.575	-0.023	9535	56.7
		Total Col1Ave (4 peaks):			60.8		Total Col2Ave (4 peaks):			57.4 RPD = 6
		Corrected Ave (3 peaks):			44.6		Corrected Ave (3 peaks):			54.7 RPD = 20
Aroclor-1254	1	9.302	-0.019	24375	60.0	1	9.455	-0.009	17054	96.4
Aroclor-1254	2	9.422	0.020	4894	31.0	2	9.973	-0.008	8543	60.1
Aroclor-1254	3	9.678	-0.016	25300	98.6	3	10.121	-0.013	26280	86.0
Aroclor-1254	4	9.803	-0.028	38968	77.9	4	10.369	-0.014	32852	103.8
Aroclor-1254	5	10.131	-0.058	47119	137.5	5	10.569	-0.010	24563	160.9
		Total Col1Ave (5 peaks):			81.0		Total Col2Ave (5 peaks):			101.4 RPD = 22
		Corrected Ave (4 peaks):			66.9		Corrected Ave (4 peaks):			86.6 RPD = 26
Aroclor-1260	1	11.046	-0.016	16067	86.9	1	11.657	-0.010	13248	73.2
Aroclor-1260	2	11.360	-0.017	14369	75.1	2	11.919	-0.011	24053	53.0
Aroclor-1260	3	11.731	-0.020	44273	88.1	3	12.434	-0.014	17520	145.0
Aroclor-1260	4	12.132	-0.026	19453	76.0	4	12.501	-0.012	18557	61.3
Aroclor-1260	5	12.247	-0.015	9019	86.1	NS	---			----
		Total Col1Ave (5 peaks):			82.4		Total Col2Ave (4 peaks):			83.1 RPD = 1
		Corrected Ave (4 peaks):			81.0		Corrected Ave (3 peaks):			62.5 RPD = 26
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.936 - 13.808) = 940952 Col1 Total PCB = 0.2 ppm*

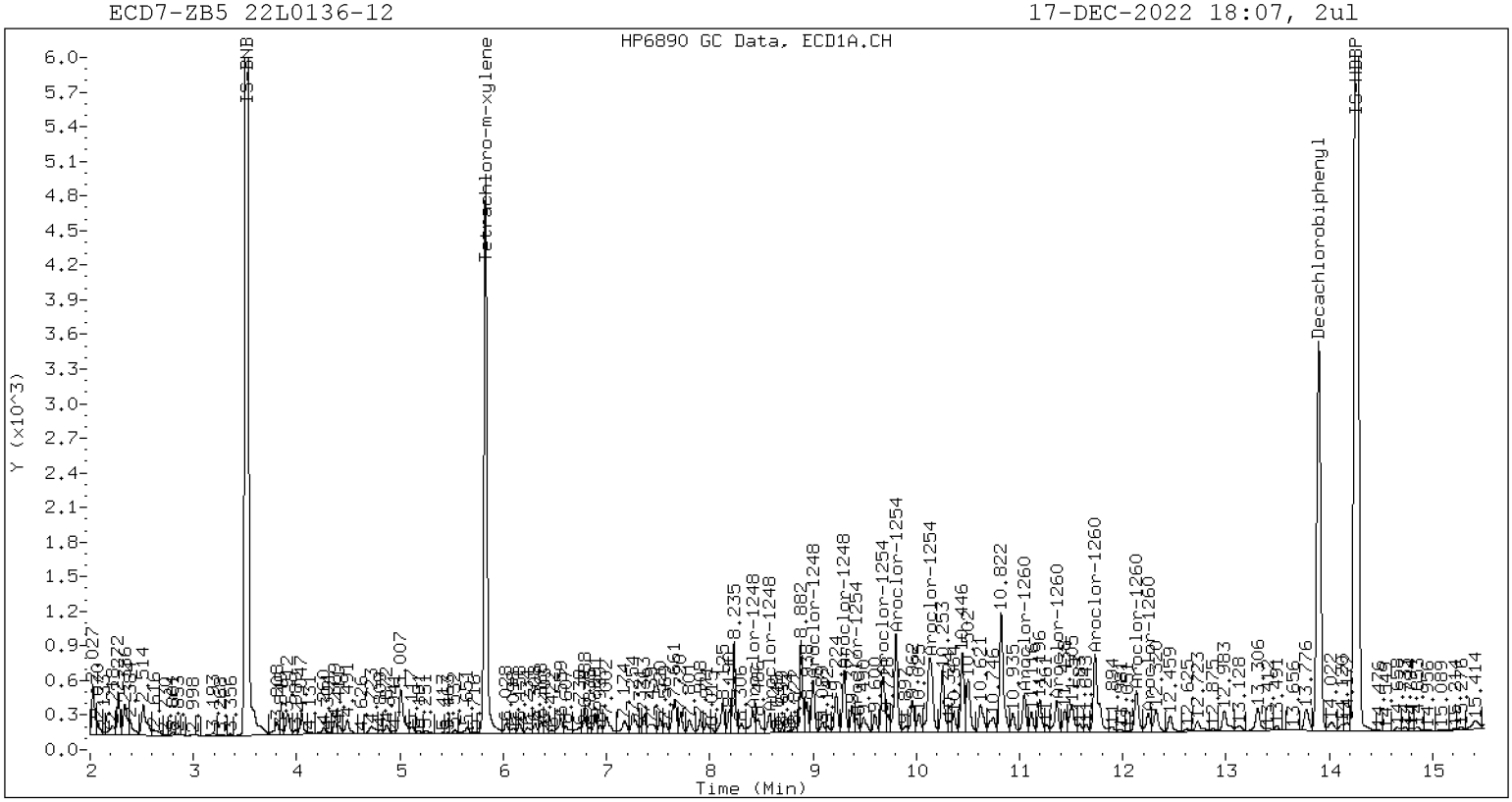
Total PCB Area Col2 (5.936 - 13.808) = 598381 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

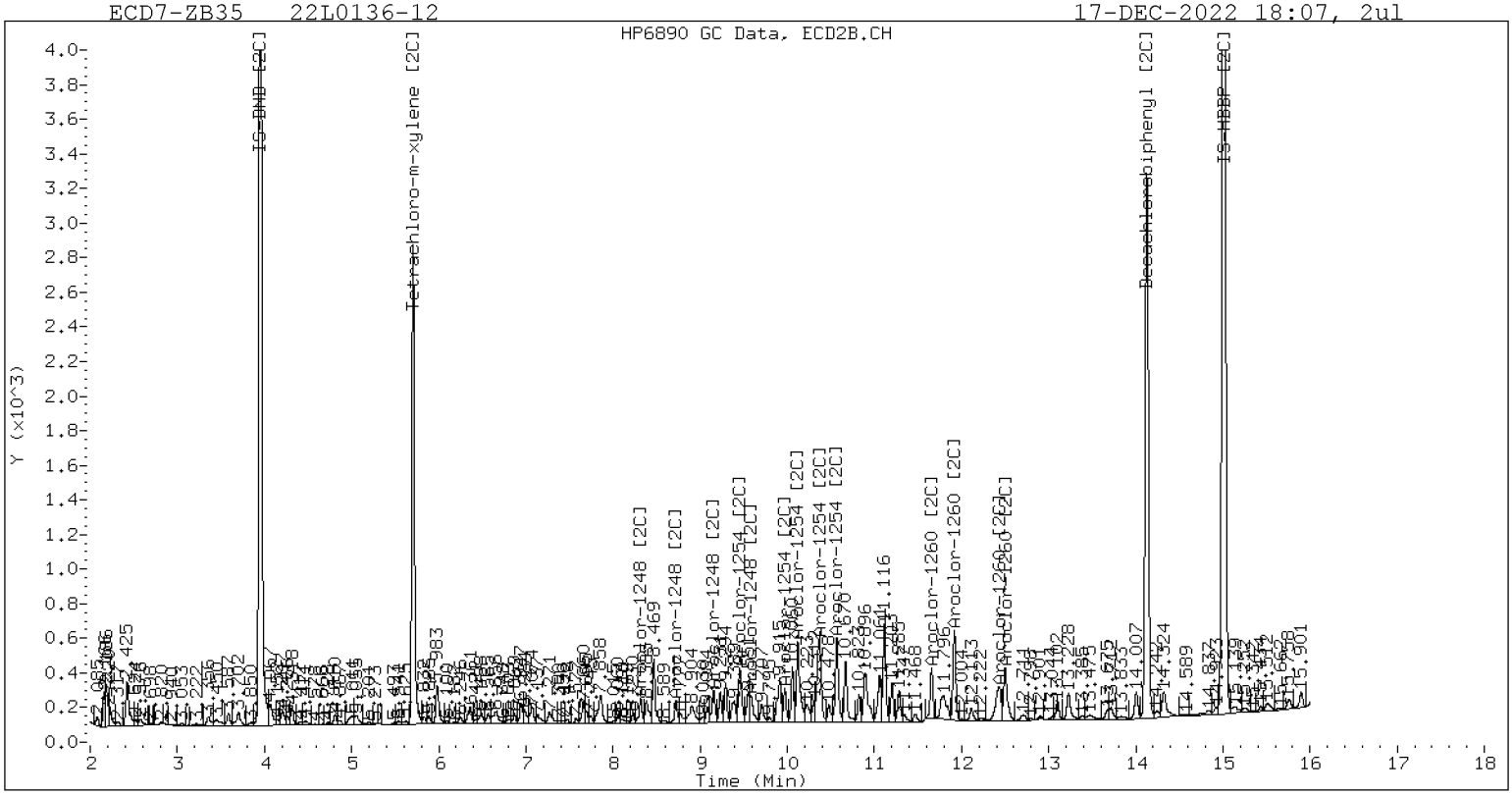
PCB Dual Column Chromatograms

ECD7-ZB5 22L0136-12 17-DEC-2022 18:07, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0136-12 17-DEC-2022 18:07, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

PREPARATION BATCH SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 22L0136

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Batch: BKL0190 Batch Matrix: Solid Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SS823	22L0136-01	12172213ECD7.D	12/08/22 14:38	
LDW22-SS822	22L0136-02	12172214ECD7.D	12/08/22 14:38	
LDW22-SS821	22L0136-03	12172217ECD7.D	12/08/22 14:38	
LDW22-SS820	22L0136-04	12172218ECD7.D	12/08/22 14:38	
LDW22-SS819	22L0136-05	12172219ECD7.D	12/08/22 14:38	
LDW22-SS818	22L0136-06	12172220ECD7.D	12/08/22 14:38	
LDW22-SS811	22L0136-07	12172221ECD7.D	12/08/22 14:38	
LDW22-SS786	22L0136-08	12172222ECD7.D	12/08/22 14:38	
LDW22-SS771	22L0136-10	12172224ECD7.D	12/08/22 14:38	
LDW22-SS772	22L0136-12	12172226ECD7.D	12/08/22 14:38	
Blank	BKL0190-BLK1	12172205ECD7.D	12/08/22 14:38	
LCS	BKL0190-BS1	12172206ECD7.D	12/08/22 14:38	
LCS Dup	BKL0190-BSD1	12172207ECD7.D	12/08/22 14:38	
LDW22-SS822	BKL0190-MS1	12172209ECD7.D	12/08/22 14:38	
LDW22-SS822	BKL0190-MSD1	12172210ECD7.D	12/08/22 14:38	
Reference	BKL0190-SRM1	12172208ECD7.D	12/08/22 14:38	

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0190

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

Matrix: Solid **Date Prepared:** 12/08/22 **Balance ID:** B146462614 **Set Up By:** GO 12/8/22

WO Comments

22L0104: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H>

22L0136: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

The following standards may be missing from this batch!

Designator	Description
QLS 5	QLS Spike

Analysis: 8082A PCB Solid 4

Lab Number & Container	% Solids	Initial (g) Target Dry: 12.5 (Wet)	Actual	(REQ) Acid C/U (5mL)	(REQ) Sulfur C/U (5mL) 1 2 3	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
22L0104-01 B	48.0	(26.06)	26.01	5mL	5mL	2mL	2.5	1.0	
22L0104-02 B	92.9	(13.46)	13.47	5mL	5mL	2mL	2.5	1.0	
22L0136-01 A	51.2	(24.41)	24.44	5mL	5mL	2mL	2.5	1.0	
22L0136-02 A	94.7	(13.20)	13.25	5mL	5mL	2mL	2.5	1.0	
22L0136-03 A	88.3	(14.16)	14.16	5mL	5mL	2mL	2.5	1.0	
22L0136-04 A	72.8	(17.16)	17.19	5mL	5mL	2mL	2.5	1.0	
22L0136-05 A	89.6	(13.95)	13.97	5mL	5mL	2mL	2.5	1.0	
22L0136-06 A	60.8	(20.55)	20.62	5mL	5mL	2mL	2.5	1.0	
22L0136-07 A	47.5	(26.31)	26.33	5mL	5mL	2mL	2.5	1.0	
22L0136-08 A	65.9	(18.96)	18.95	5mL	5mL	2mL	2.5	1.0	
22L0136-09 A	75.5	(16.57)	16.57	5mL	5mL	2mL	2.5	1.0	Corrupt
22L0136-10 A	42.7	(29.30)	29.39	5mL	5mL	2mL	2.5	1.0	
22L0136-11 A	42.5	(29.38)	29.41	5mL	5mL	2mL	2.5	1.0	8.5% of (11A) pured into (09A) (P
22L0136-12 A	38.9	(32.13)	32.16	5mL	5mL	2mL	2.5	1.0	

Batch QC

Lab Number	% Solids	Initial (g) Target Dry: 12.5 (Wet)	Actual	(REQ) Acid C/U (5mL)	(REQ) Sulfur C/U (5mL) 1 2 3	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BKL0190-BLK1	100.0	(12.50)	12.50	5mL	5mL	2mL	2.5	1.0	(10g Actual Wt.)
BKL0190-BS1	100.0	(12.50)	12.50	5mL	5mL	2mL	2.5	1.0	(10g Actual Wt.)
BKL0190-BSD1	100.0	(12.50)	12.50	5mL	5mL	2mL	2.5	1.0	(10g Actual Wt.)
BKL0190-MS1	94.7	(13.20)	13.25	5mL	5mL	2mL	2.5	1.0	Use 22L0136-02
BKL0190-MSD1	94.7	(13.20)	13.25	5mL	5mL	2mL	2.5	1.0	Use 22L0136-02
BKL0190-SRM1	100.0	~~(12.50)~~ (2.50)	2.50	5mL	5mL	2mL	2.5	1.0	Use K010815

+1g DI WATER

12/08/22 — Client ID verified By / Date

TWC 12/16/22 — Preparation Reviewed By / Date

12/08/22 14:38 — Extraction Date and Time

Printed: 12/8/2022 10:52:37AM

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0190

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

WO Comments

22L0104: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H>

22L0136: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

Prep Steps

Microwave
1 2 3
CT 12/8/22
Analyst/Date

KD
100°C
Hexane Exchange
(2 X 20 mL)
1 2 3 4 5 6
CT 12/13/22
Analyst/Date

TurboVap
Pre Cleanups
1 2 3 4 5
NKB 12/13/22
Analyst/Date

TurboVap
Post Cleanups
1 2 3 4 5
TWC 12/16/22
Analyst/Date

Vialing
TWC 12/16/22
Analyst/Date

Reagents Used

Station/Reagent	Standard ID
Microwave Analyst: CT/NV Date: 12/8/22	
Neutral Glass Wool	K012266
1:1 Hexane/Acetone	K010613
Hexane	K008316
Anhydrous Sodium Sulfate	K016995
KD Analyst: CT Date: 12/13/22	
Anhydrous Sodium Sulfate	
Hexane	K011373
Vialing Analyst: TWC/NKB Date: 12/16/22	
Hexane	K011373
Concentrated Sulfuric Acid	K009796
Silica Gel (SPE) Darts	K005438 01538 TWC 12/16/22
Sodium Sulfite	K003744
Tetrabutylammonium hydrogensulfate (TBAS)	K010832

Surrogates & Spike Standards Used

Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
Surrogate 2µg/mL	N K010600 (V) Exp Date: 1/23/2023	50µL	CT	NV
Spike 20µg/mL	1 K008150 (V) Exp Date: 3/5/2023	63µL	G	NV

MANUALLY ENTER EXPIRATION DATES!

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

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

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0190

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

WO Comments

22L0104: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H>

22L0136: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

Prep Instructions	
SPECIAL INSTRUCTIONS: 1. Weigh soil/sed into beakers-lightly dry with sodium sulfate. 2. Transfer to microwave vessel(s). Note: (do not fill vessels more than 2/3rd full. Some samples may require two vessels). 3. Add 1:1 Hexane/Acetone until the solvent layer is 3 inches above the soil layer after homogenization. 4. Add surr/spike. 5. Microwave on appropriate power setting determined by # of samples. 6. After microwave-Re-homogenize while hot then cool vessels in R-05 15 minutes. Re-homogenize while cool. 7. Decant 1:1 Hex/Ace into Erlenmeyer flask with sodium sulfate in bottom and funnel with neutral glasswool plug. 8. Re-homogenize and rinse with 1:1 Hexane/Acetone. 9. Let cool and decant solvent then empty the soil into the funnel and rinse with Hexane. 10. KD on 100° bath. 11. Exchange (2 X with 20mL) Hexane. 12. TurboVap. 13. Clean-ups. 14. TurboVap. 15. Vial with Hexane. A. Need Total Solids Y [N] B. Archive/Freeze [Y] / N	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

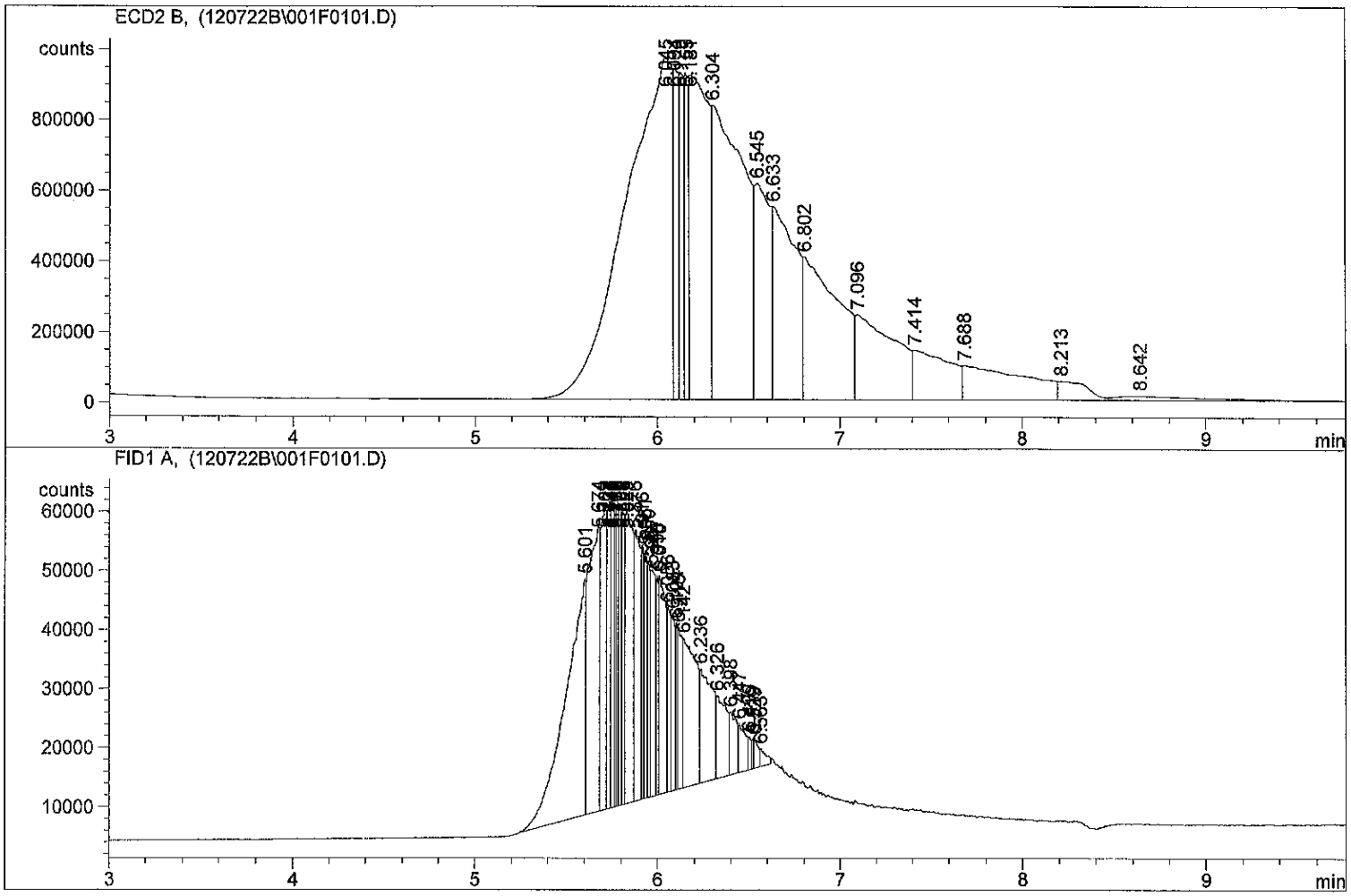
Extraction Parameter: PCB Extraction Batch: BKL0190

Total Solids Batch: BKL0132 Work Order(s): 22L0154

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
☒ No Anomalies (standard soil/wet sediment/sand/gravel)= ϕ2.	CR 12/6
☐ Standing Water Decanted (Not shared)=	
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay/Clumps (Difficult to homogenize)=	
☒ Rocks (%+size)? Tr 10.0% = ϕ1	CR 12/6
☐ Organics (Leaves/sticks/grass)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Received in 32oz jar(s)=Homogenized in Pyrex dish=	
☐ Previously Frozen =	
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
☐ Emulsions (%)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
☐ Received in 1.0L Bottle(s)=No Bottle Rinse=	
☐ Other Notes/Comments= (Note problems, concerns, corrective actions).	
☒ Share Samples Y / N	CR 12/6
☒ Multiple Jars Y / N	CR 12/6
☐ Sample Pre-Screens indicate analyte activity=	
☐ Sample weights/volumes reduced based on Pre-Screen=	

Data File C:\HPCHEM\1\DATA\120722B\001F0101.D Sample Name: DCM RINSE

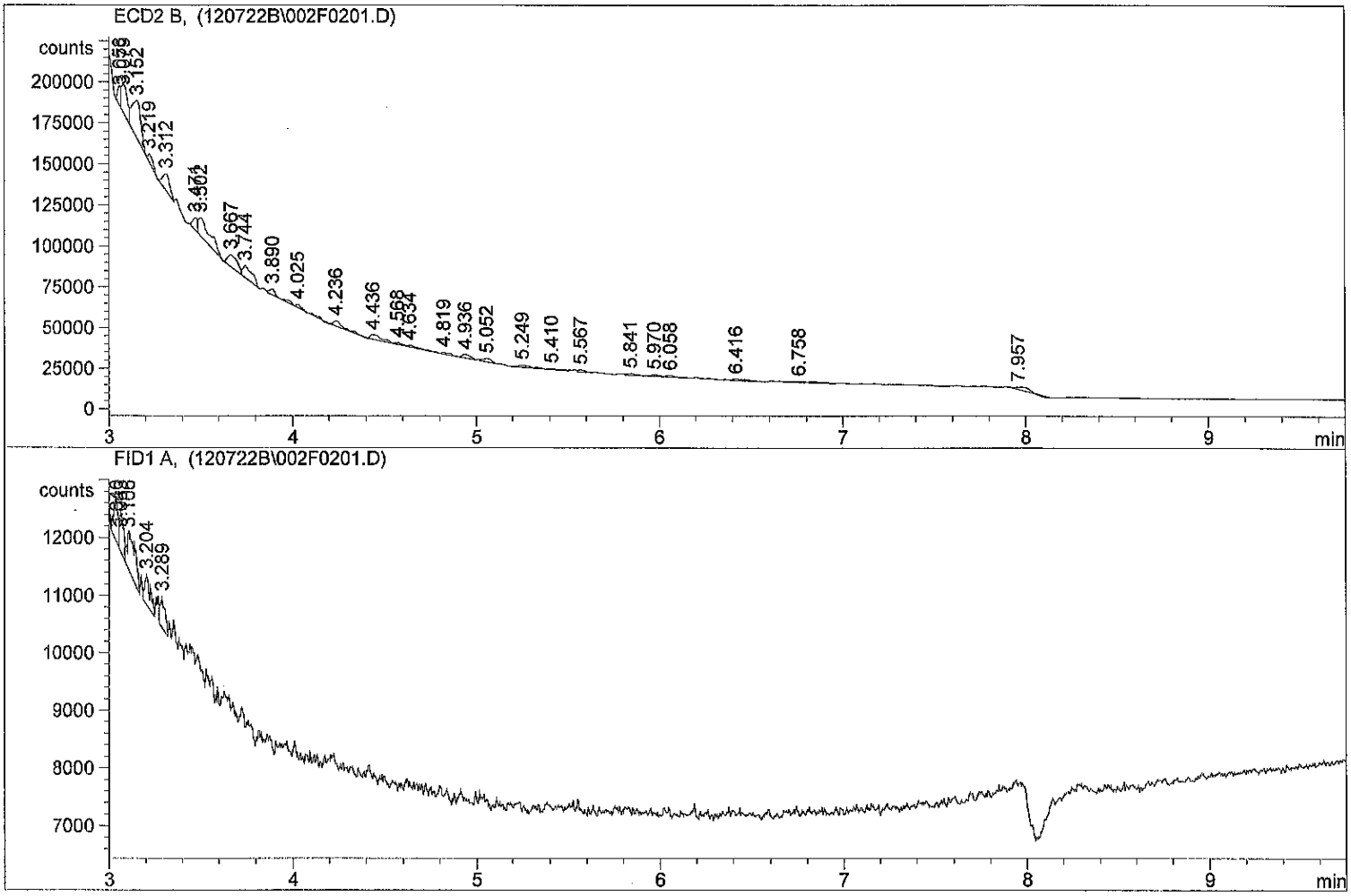
Injection Date	: 12/7/2022 6:09:53 PM	Seq. Line :	1
Sample Name	: DCM RINSE	Location :	Vial 1
Acq. Operator	: YL	Inj :	1
		Inj Volume :	1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\120722BS.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

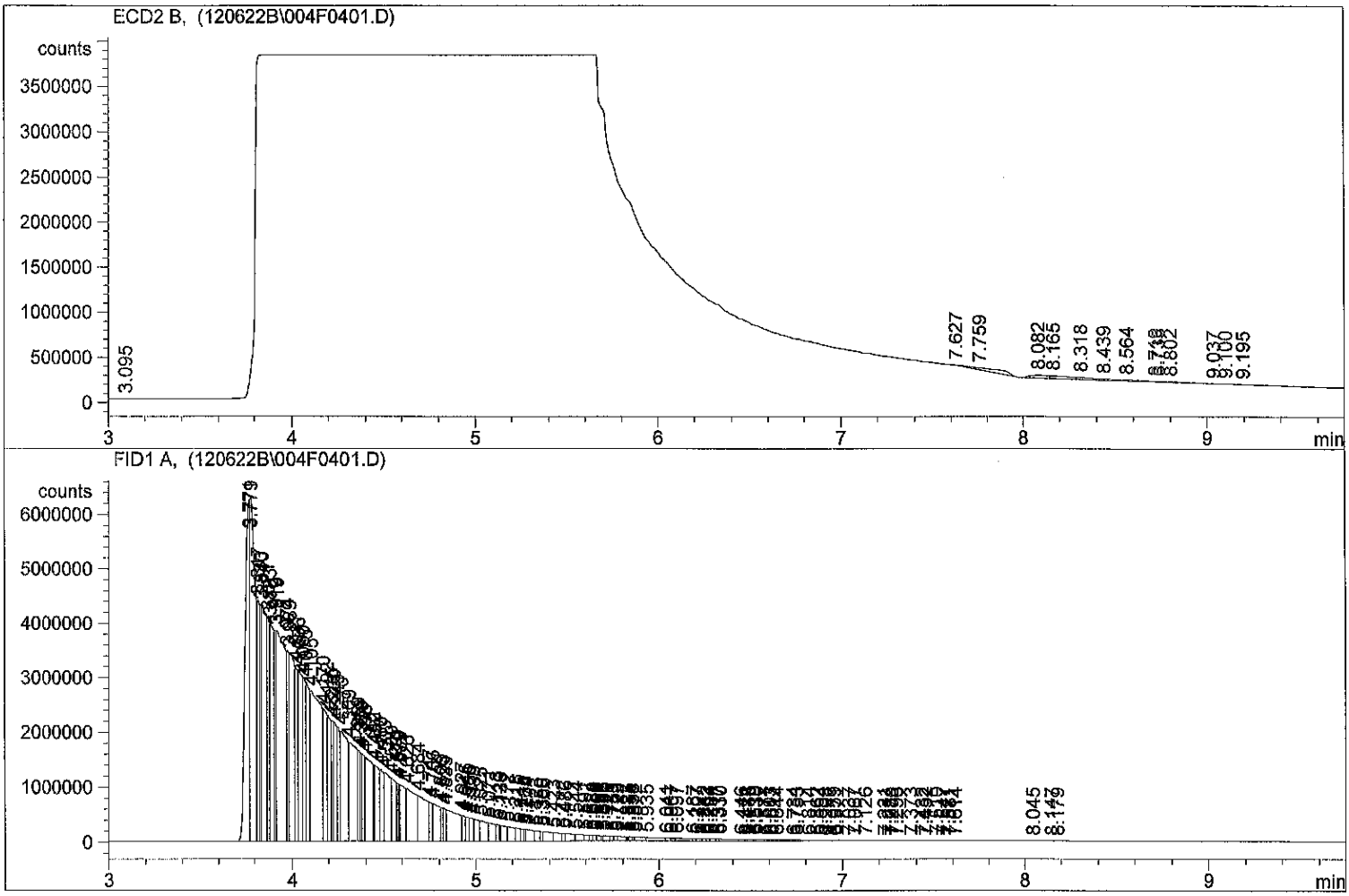
Data File C:\HPCHEM\1\DATA\120722B\002F0201.D Sample Name: PNA STD 10PPM

Injection Date	: 12/7/2022 6:24:20 PM	Seq. Line	: 2
Sample Name	: PNA STD 10PPM	Location	: Vial 2
Acq. Operator	: YL	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\120722BS.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

Injection Date	: 12/6/2022 6:19:49 PM	Seq. Line :	4
Sample Name	: 22L0104 01	Location :	Vial 4
Acq. Operator	: YL	Inj :	1
		Inj Volume :	1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\120622B.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

```
Injection Date  : 12/6/2022 6:33:22 PM          Seq. Line :   5
Sample Name     : 22L0104 02                    Location : Vial 5
Acq. Operator   : YL                               Inj :   1
                                                Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\120622B.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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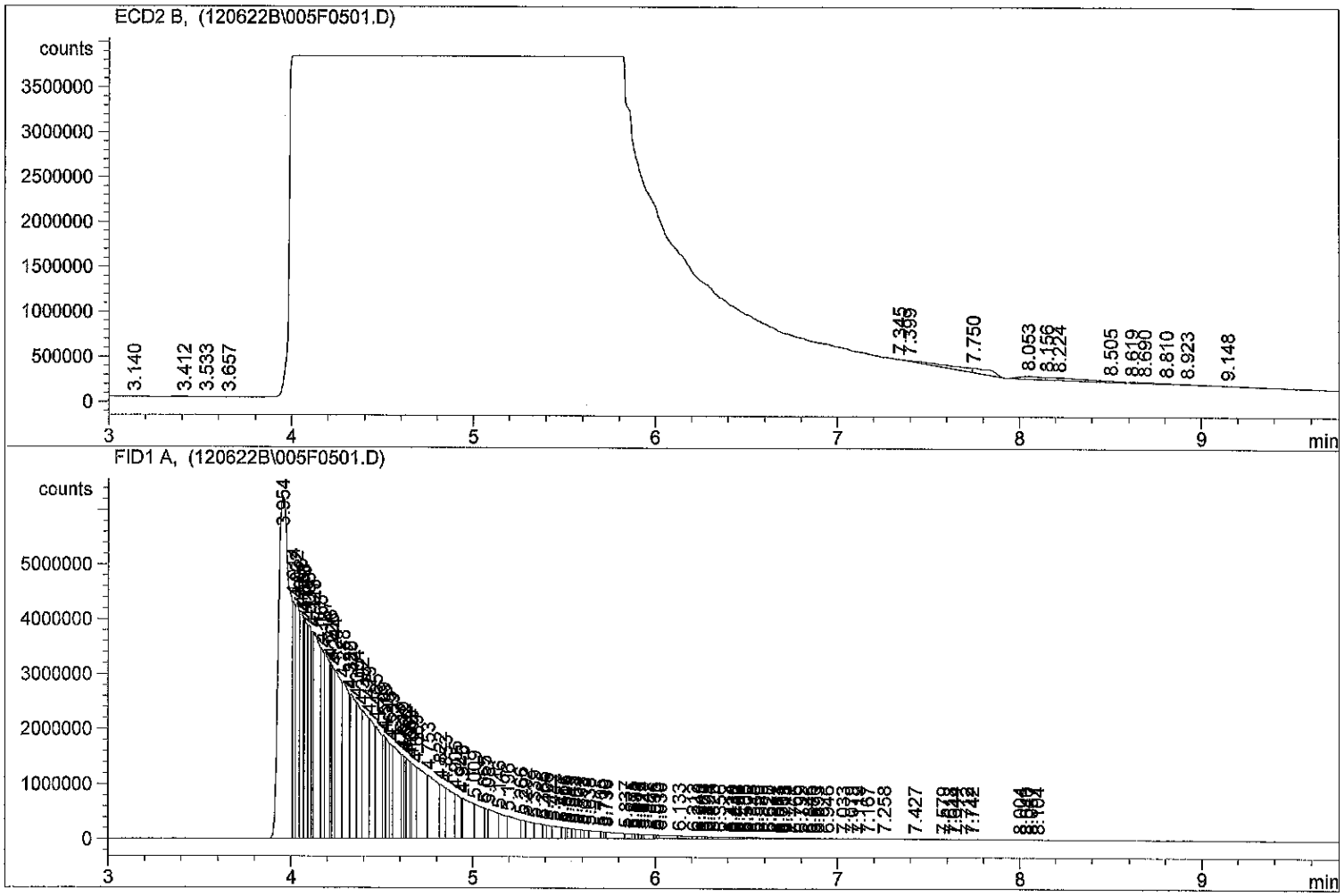


*** End of Report ***

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

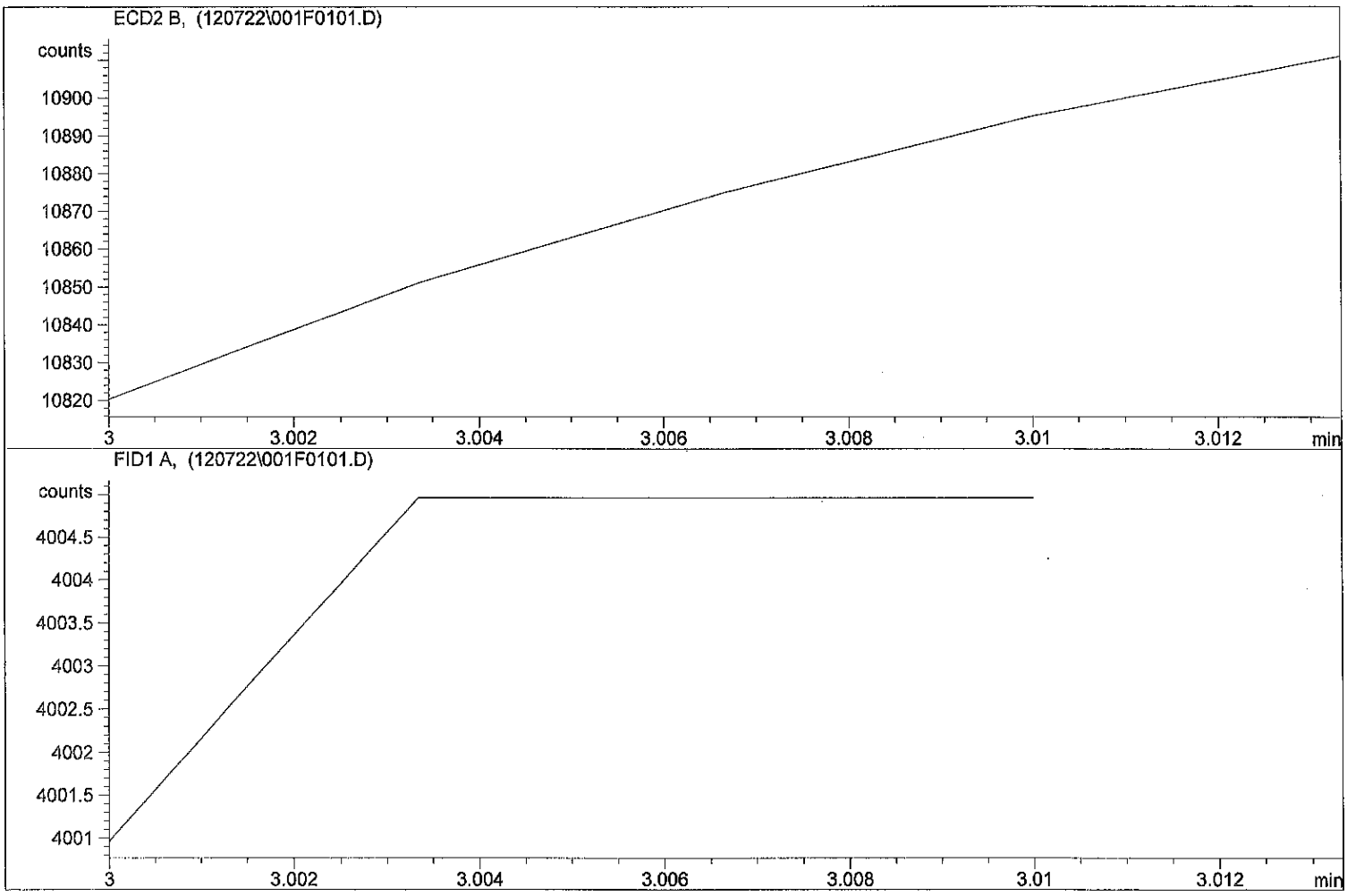
Extraction Parameter: PUB Extraction Batch: BLE0190

Total Solids Batch: BKL0171 Work Order(s): 22L0136

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
[X] No Anomalies (standard soil/wet sediment/sand/gravel)= ϕ1 ~ ϕ3, ϕ5 – ϕ7, 9.	12/07/22
[X] Standing Water Decanted (Not shared)= ϕ1, ϕ4, 6 – 14.	12/07/22
[ ] Standing Water Homogenized (Shared samples)=	
[ ] Clay/Clumps (Difficult to homogenize)=	
[X] Rocks (%+size)? 1/411 5.0% = ϕ8	12/07/22
[X] Organics (Leaves/sticks/grass)= 5.0% = ϕ4. 60.0% = 14.	12/07/22
[X] Oily, obvious fuel/sulfur odors= 1ϕ – 13.	12/07/22
[ ] Received in 32oz jar(s)=Homogenized in Pyrex dish=	
[ ] Previously Frozen =	
[ ] Other (Details)=	
Aqueous:	
[ ] No Anomalies	
[ ] Turbid/Color=	
[ ] Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
[ ] Emulsions (%)=	
[ ] Oily, obvious fuel/sulfur odors=	
[ ] Other (Details)=	
[ ] Received in 1.0L Bottle(s)=No Bottle Rinse=	
[ ] Other Notes/Comments= (Note problems, concerns, corrective actions).	
[X] Share Samples Y / N	12/07/22
[X] Multiple Jars Y / N	12/07/22
[ ] Sample Pre-Screens indicate analyte activity=	
[ ] Sample weights/volumes reduced based on Pre-Screen=	

Data File C:\HPCHEM\1\DATA\120722\001F0101.D Sample Name: DCM RINSE

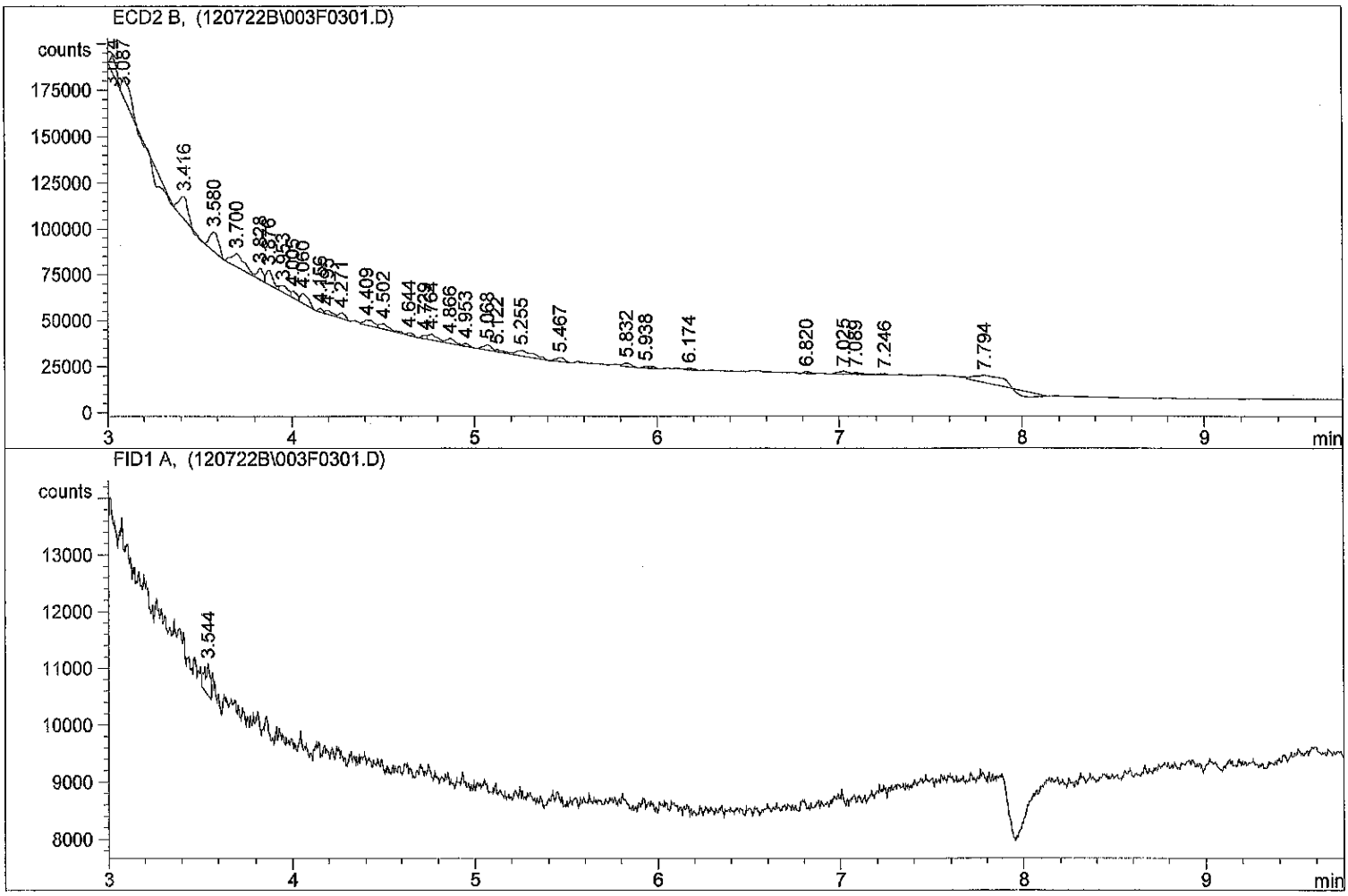
Injection Date	: 12/7/2022 6:05:25 PM	Seq. Line :	1
Sample Name	: DCM RINSE	Location :	Vial 1
Acq. Operator	: YL	Inj :	1
		Inj Volume :	1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\120722S.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

Data File C:\HPCHEM\1\DATA\120722B\003F0301.D Sample Name: AR1660 1PPM

Injection Date	: 12/7/2022 6:38:41 PM	Seq. Line :	3
Sample Name	: AR1660 1PPM	Location :	Vial 3
Acq. Operator	: YL	Inj :	1
		Inj Volume :	1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\120722BS.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

```
==========================================================================
Injection Date  : 12/7/2022 6:52:15 PM          Seq. Line :   4
Sample Name     : 22L0136 01                     Location : Vial 4
Acq. Operator   : YL                                Inj :   1
                                                Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\120722BS.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
==========================================================================
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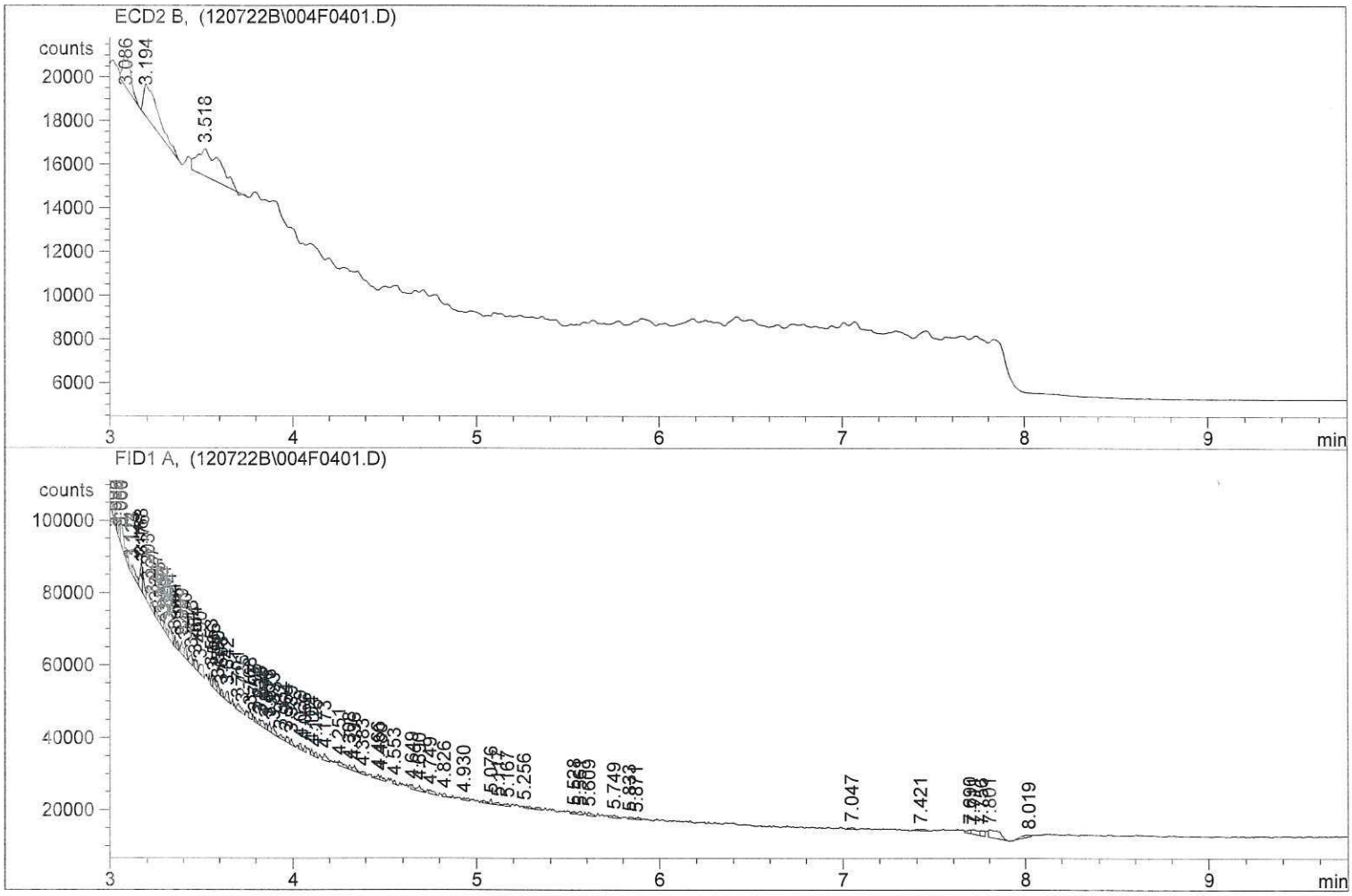
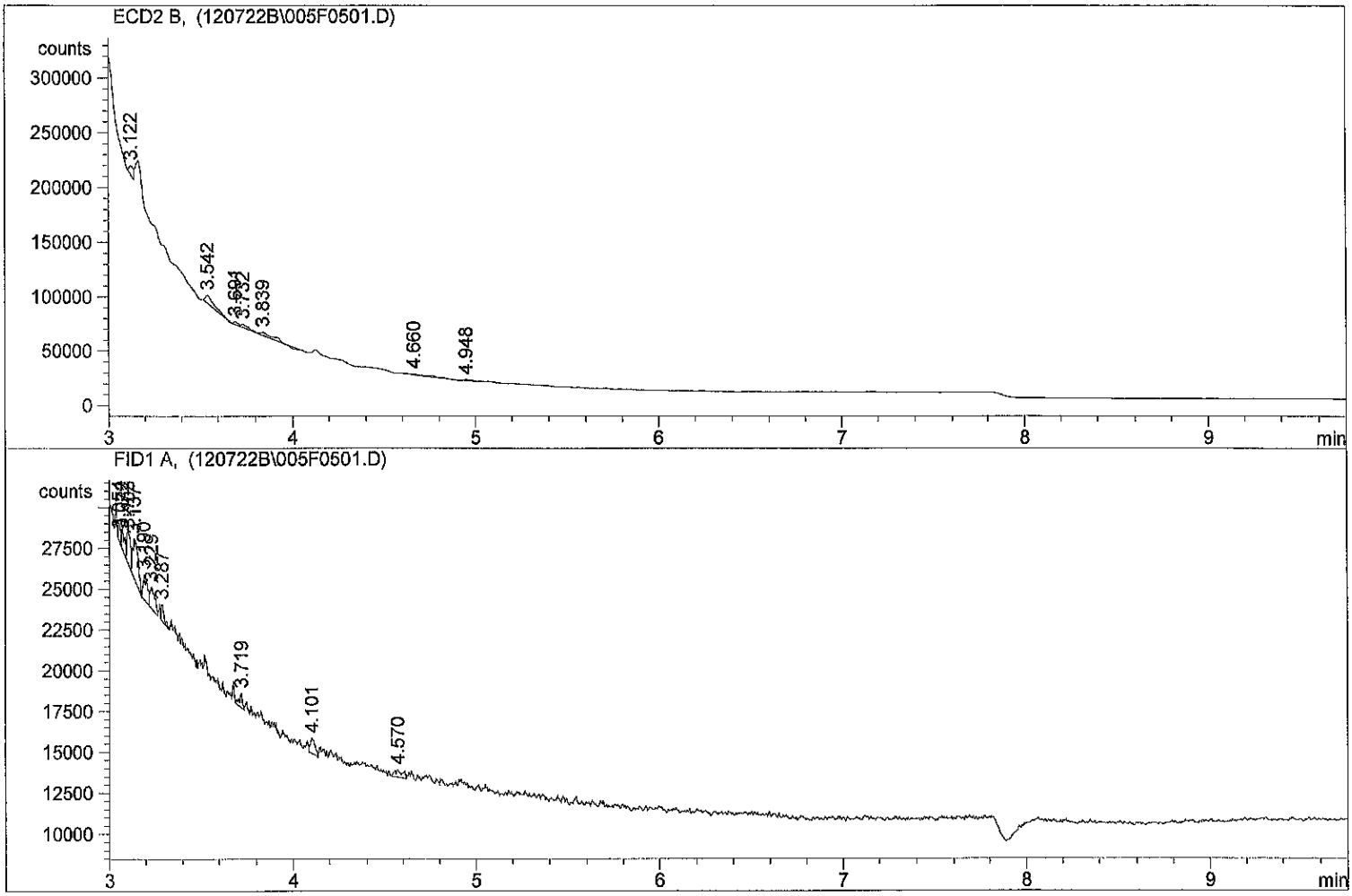


*** End of Report ***

Injection Date	: 12/7/2022 7:06:08 PM	Seq. Line	: 5
Sample Name	: 22L0136 02	Location	: Vial 5
Acq. Operator	: YL	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\120722BS.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		

SCREEN METHOD



*** End of Report ***

Data File C:\HPCHEM\1\DATA\120722B\006F0601.D Sample Name: 22L0136 03

```
Injection Date  : 12/7/2022 7:19:39 PM          Seq. Line :   6
Sample Name     : 22L0136 03                    Location : Vial 6
Acq. Operator   : YL                                Inj :   1
                                               Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\120722BS.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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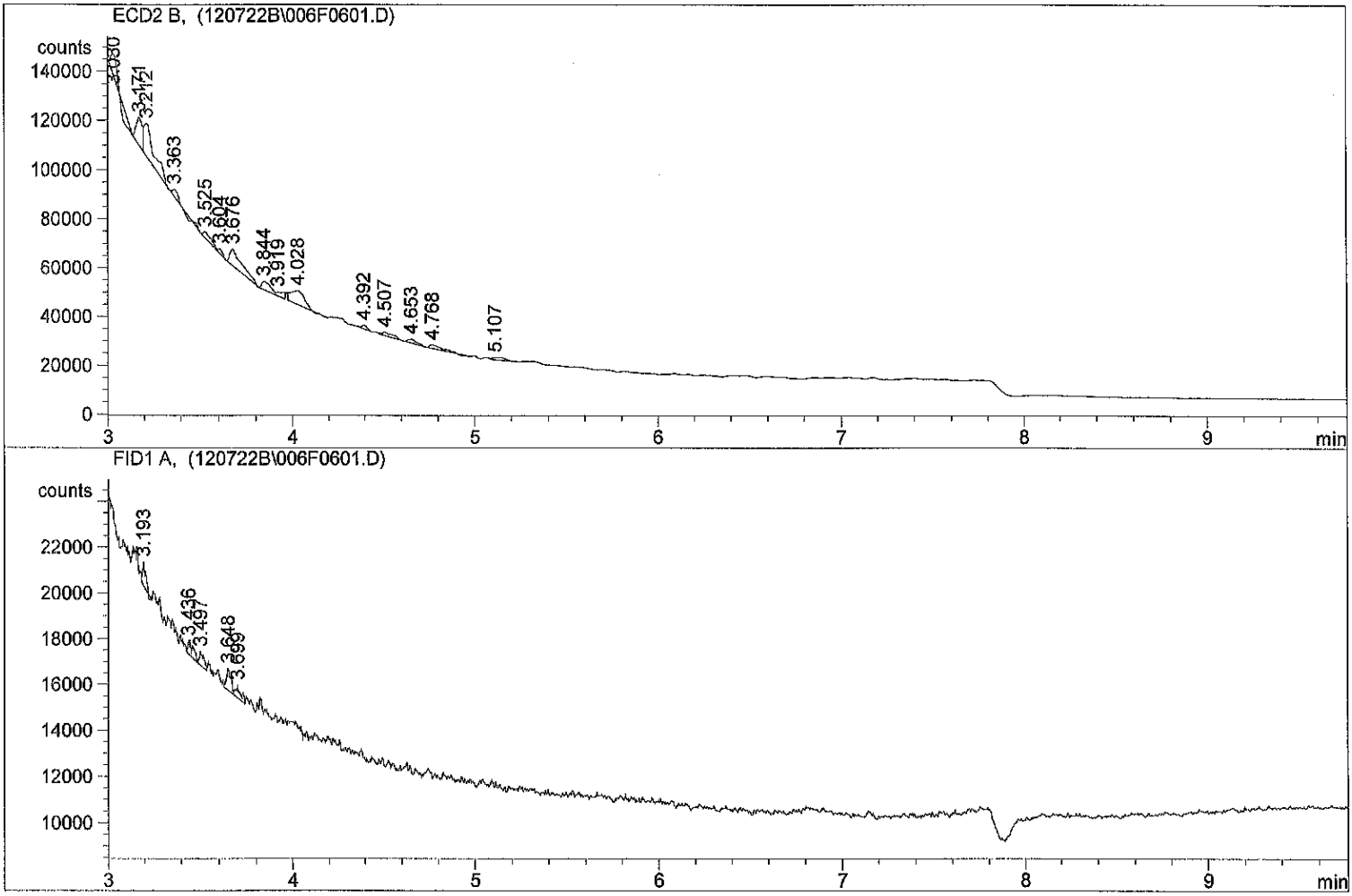
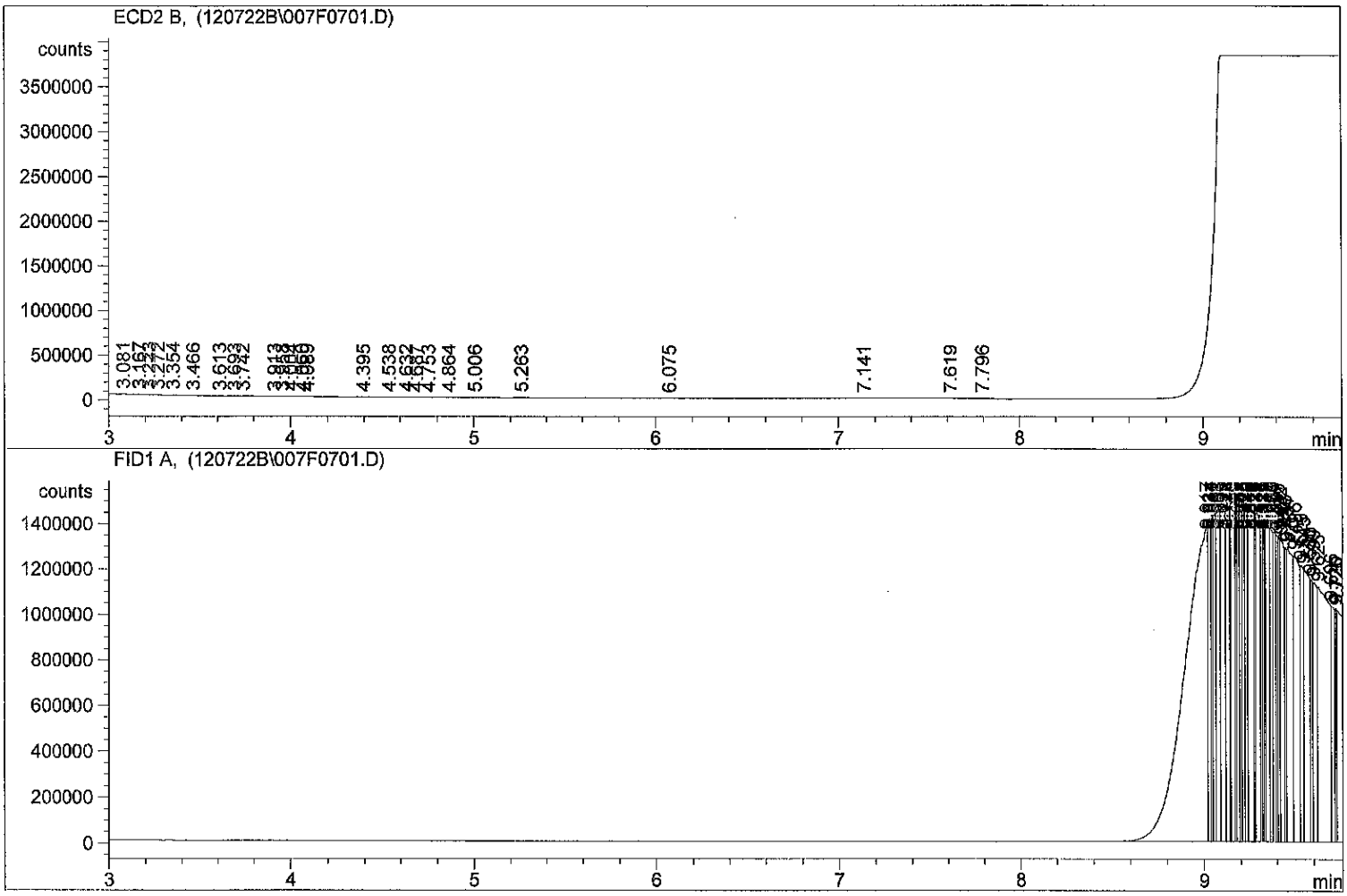


*** End of Report ***

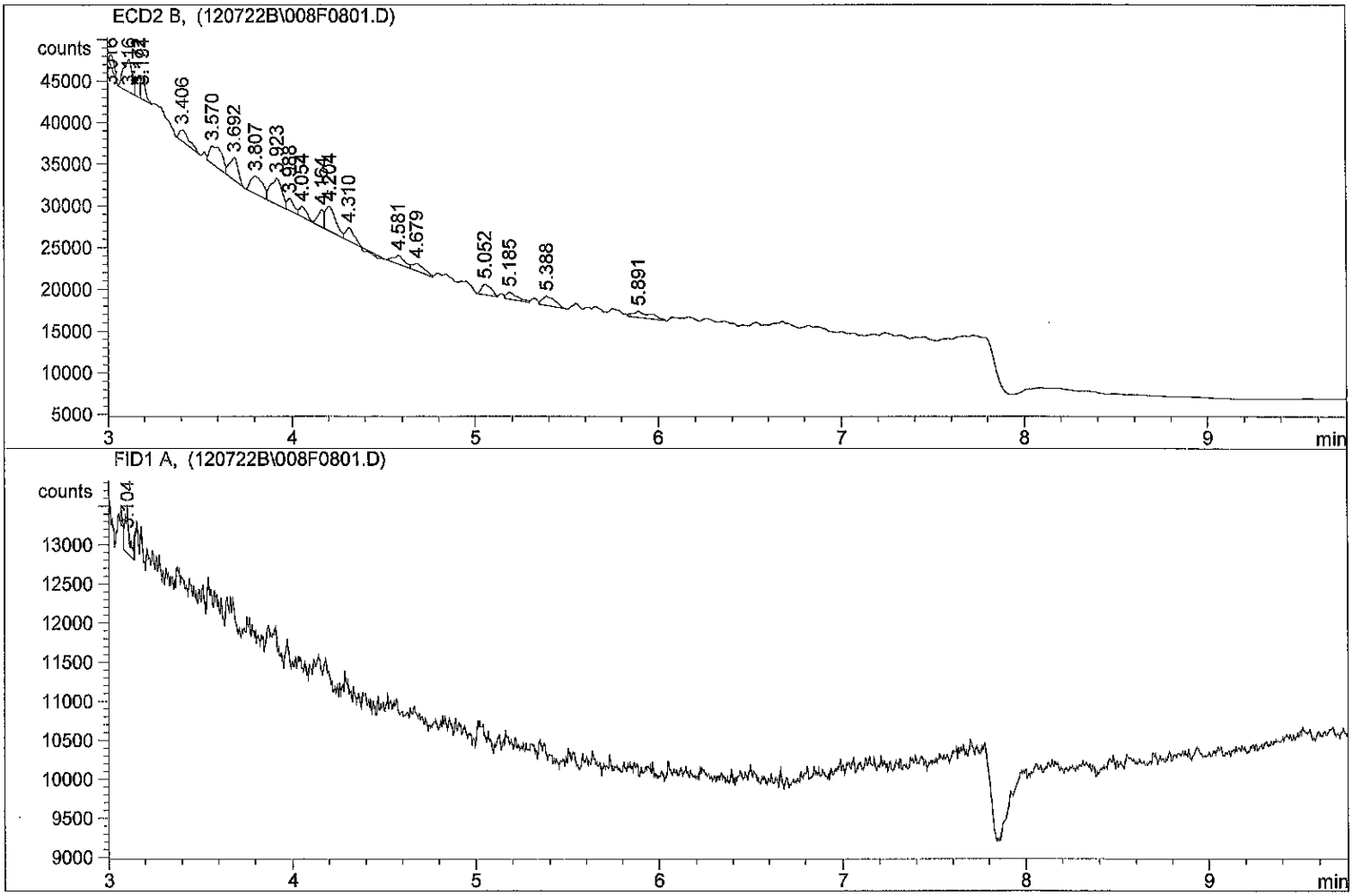
Data File C:\HPCHEM\1\DATA\120722B\007F0701.D Sample Name: 22L0136 04

Injection Date	: 12/7/2022 7:33:29 PM	Seq. Line	: 7
Sample Name	: 22L0136 04	Location	: Vial 7
Acq. Operator	: YL	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\120722BS.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

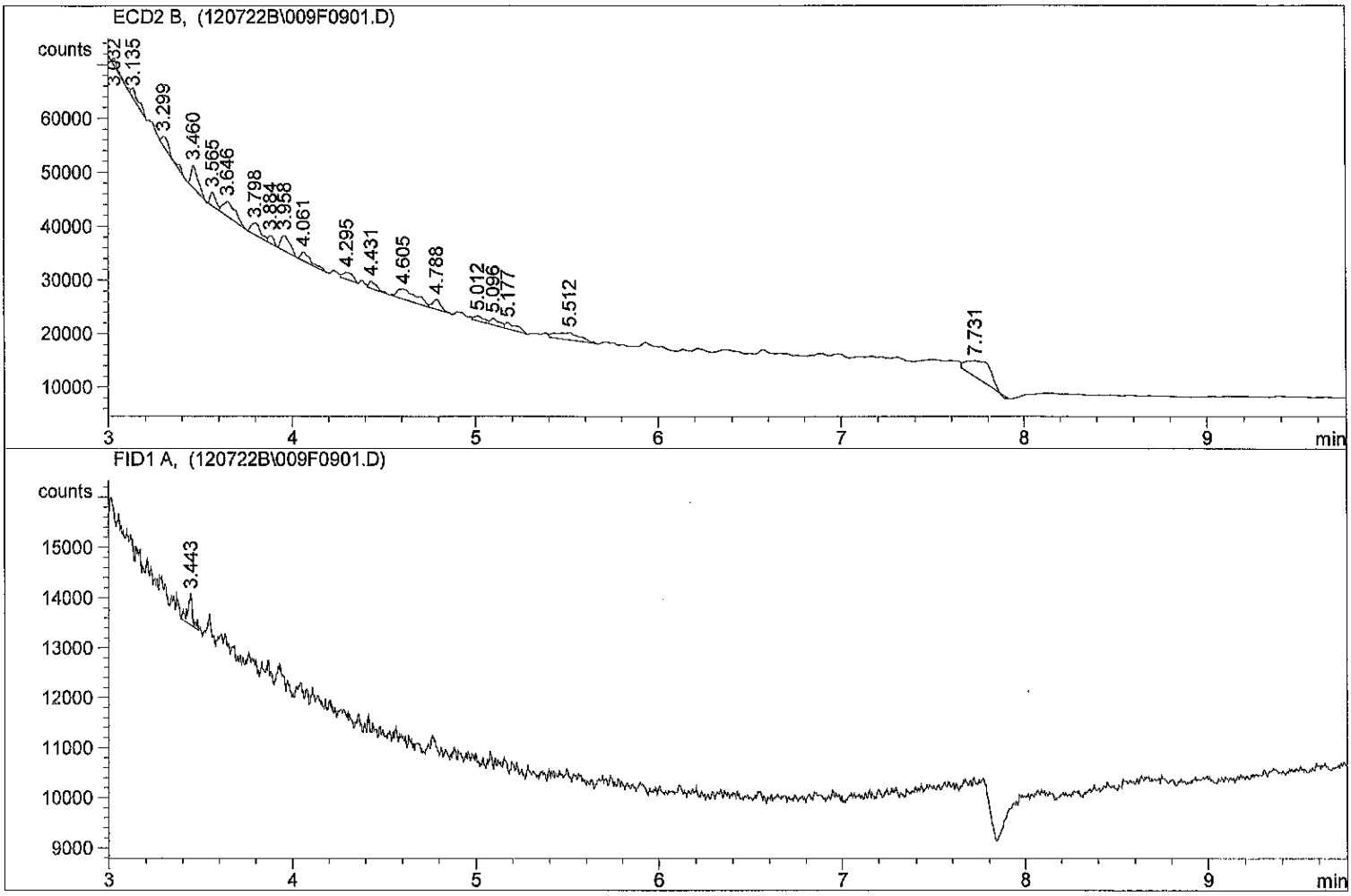
Injection Date	: 12/7/2022 7:47:05 PM	Seq. Line :	8
Sample Name	: 22L0136 05	Location :	Vial 8
Acq. Operator	: YL	Inj :	1
		Inj Volume :	1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\120722BS.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

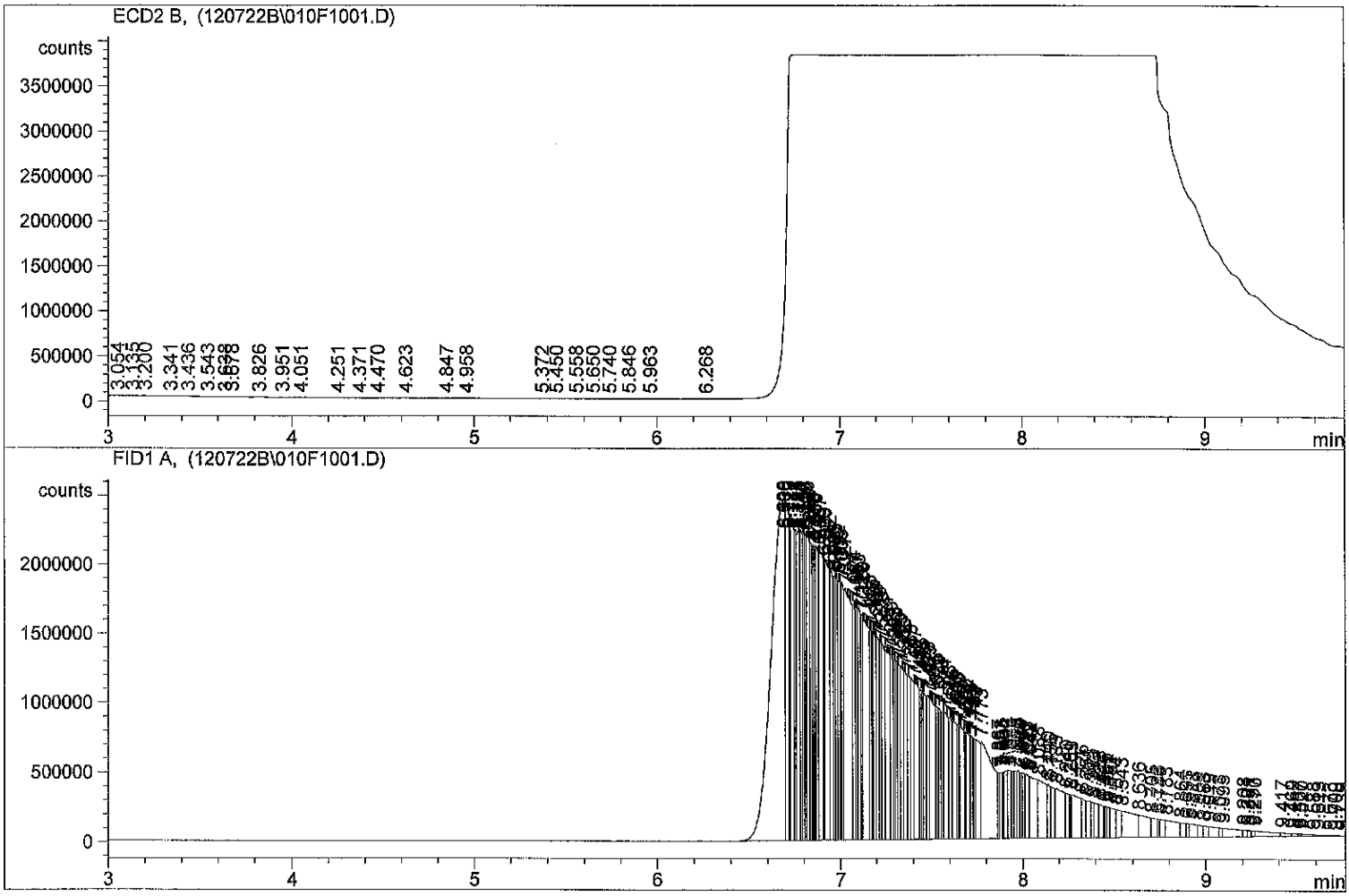
Injection Date : 12/7/2022 8:00:47 PM Seq. Line : 9
Sample Name : 22L0136 06 Location : Vial 9
Acq. Operator : YL Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\120722BS.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



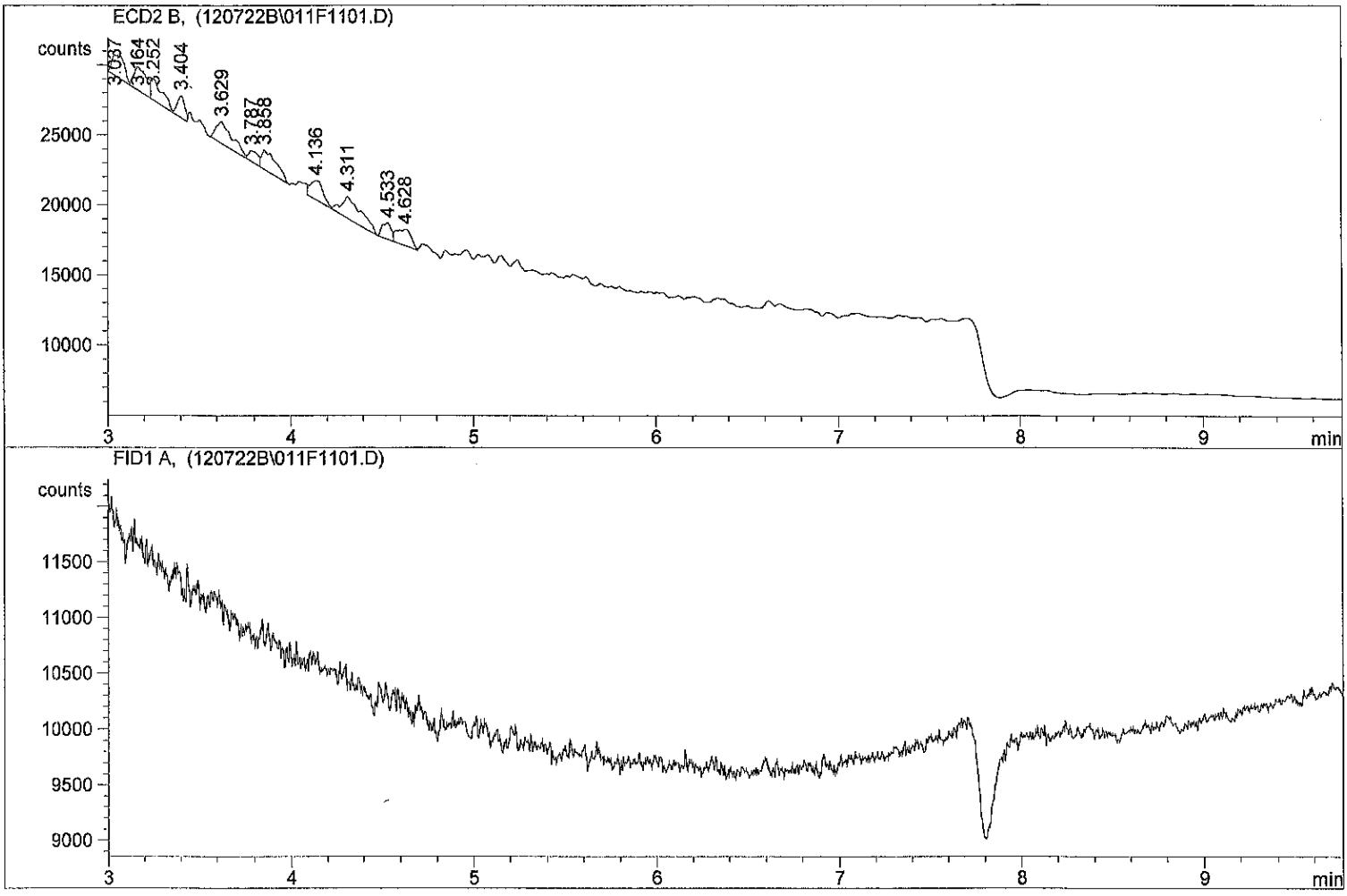
*** End of Report ***

Injection Date	: 12/7/2022 8:15:35 PM	Seq. Line	: 10
Sample Name	: 22L0136 07	Location	: Vial 10
Acq. Operator	: YL	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\120722BS.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



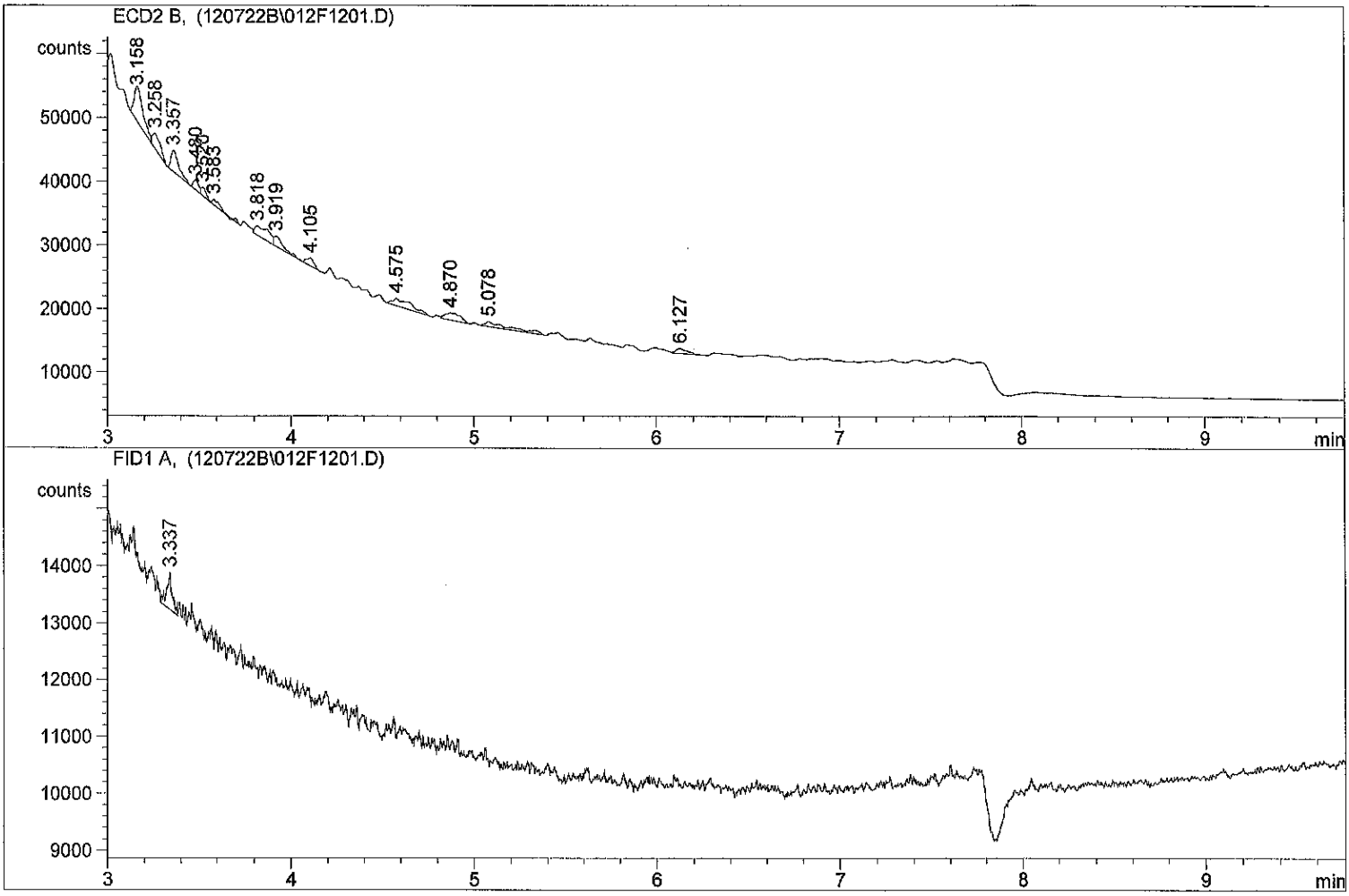
*** End of Report ***

Injection Date	: 12/7/2022 8:29:05 PM	Seq. Line	: 11
Sample Name	: 22L0136 08	Location	: Vial 11
Acq. Operator	: YL	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\120722BS.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



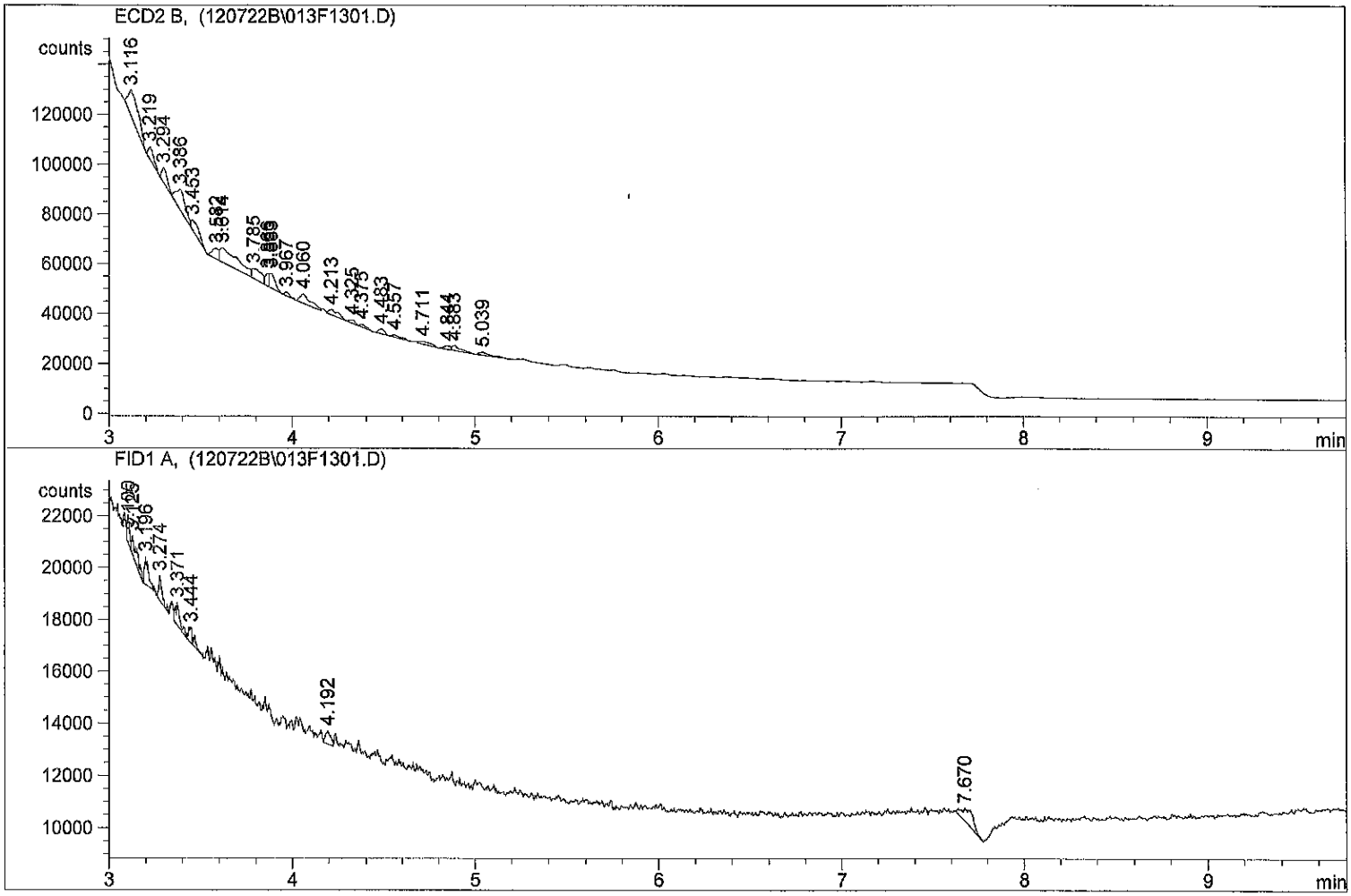
*** End of Report ***

Injection Date	: 12/7/2022 8:43:41 PM	Seq. Line	: 12
Sample Name	: 22L0136 09	Location	: Vial 12
Acq. Operator	: YL	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\120722BS.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



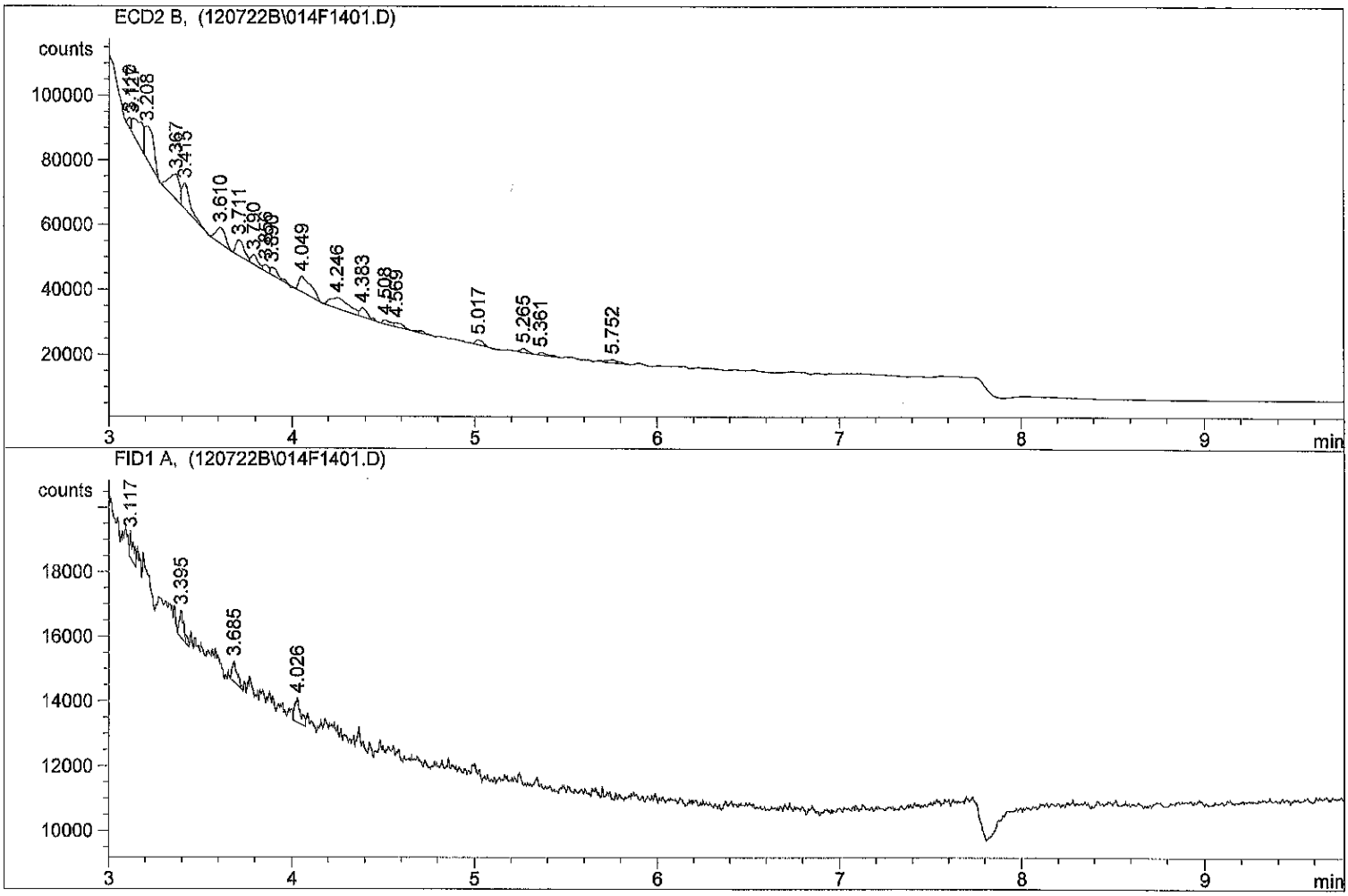
*** End of Report ***

Injection Date	: 12/7/2022 8:57:07 PM	Seq. Line	: 13
Sample Name	: 22L0136 10	Location	: Vial 13
Acq. Operator	: YL	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\120722BS.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



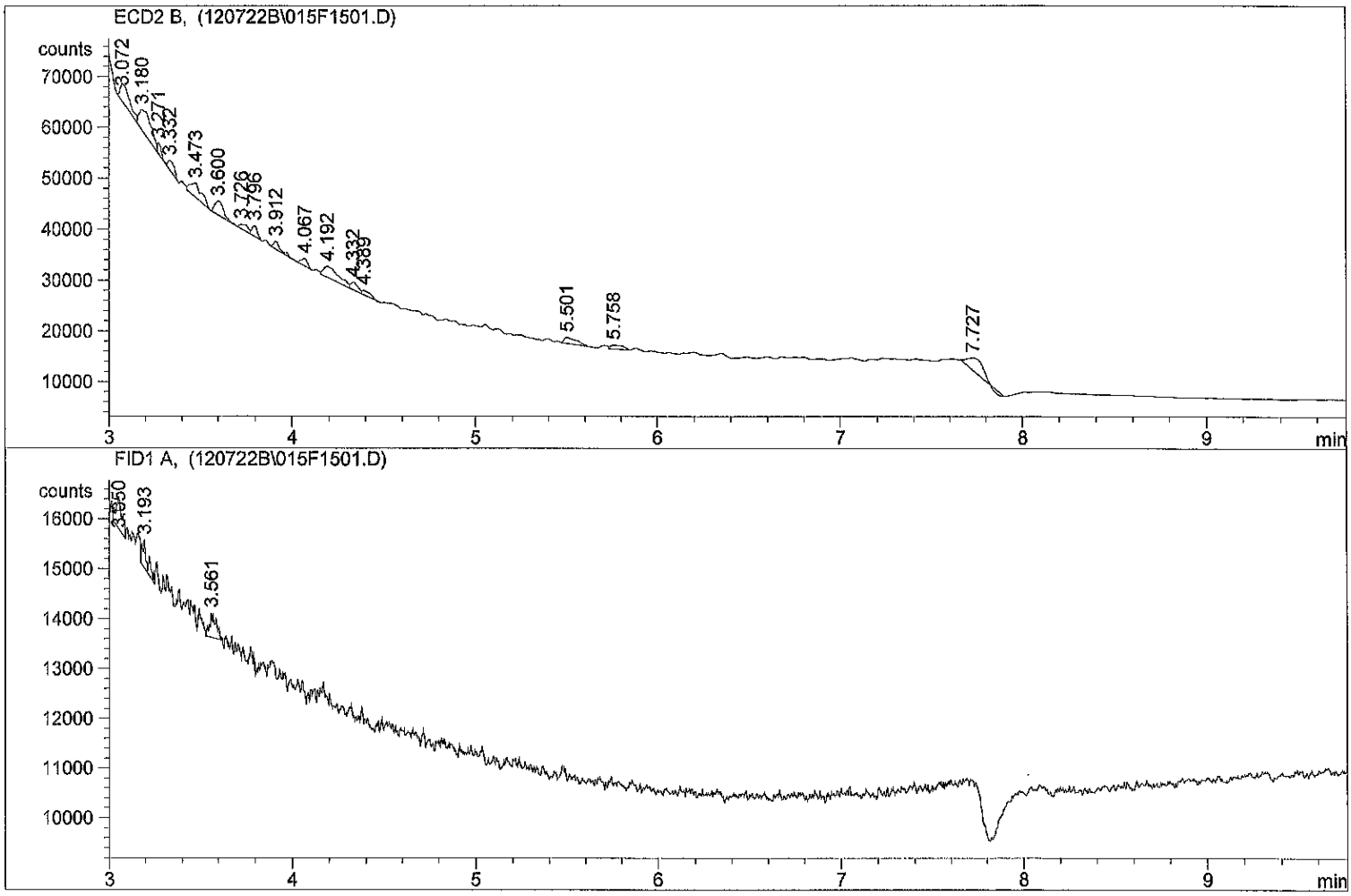
*** End of Report ***

Injection Date	: 12/7/2022 9:10:46 PM	Seq. Line	: 14
Sample Name	: 22L0136 11	Location	: Vial 14
Acq. Operator	: YL	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\120722BS.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

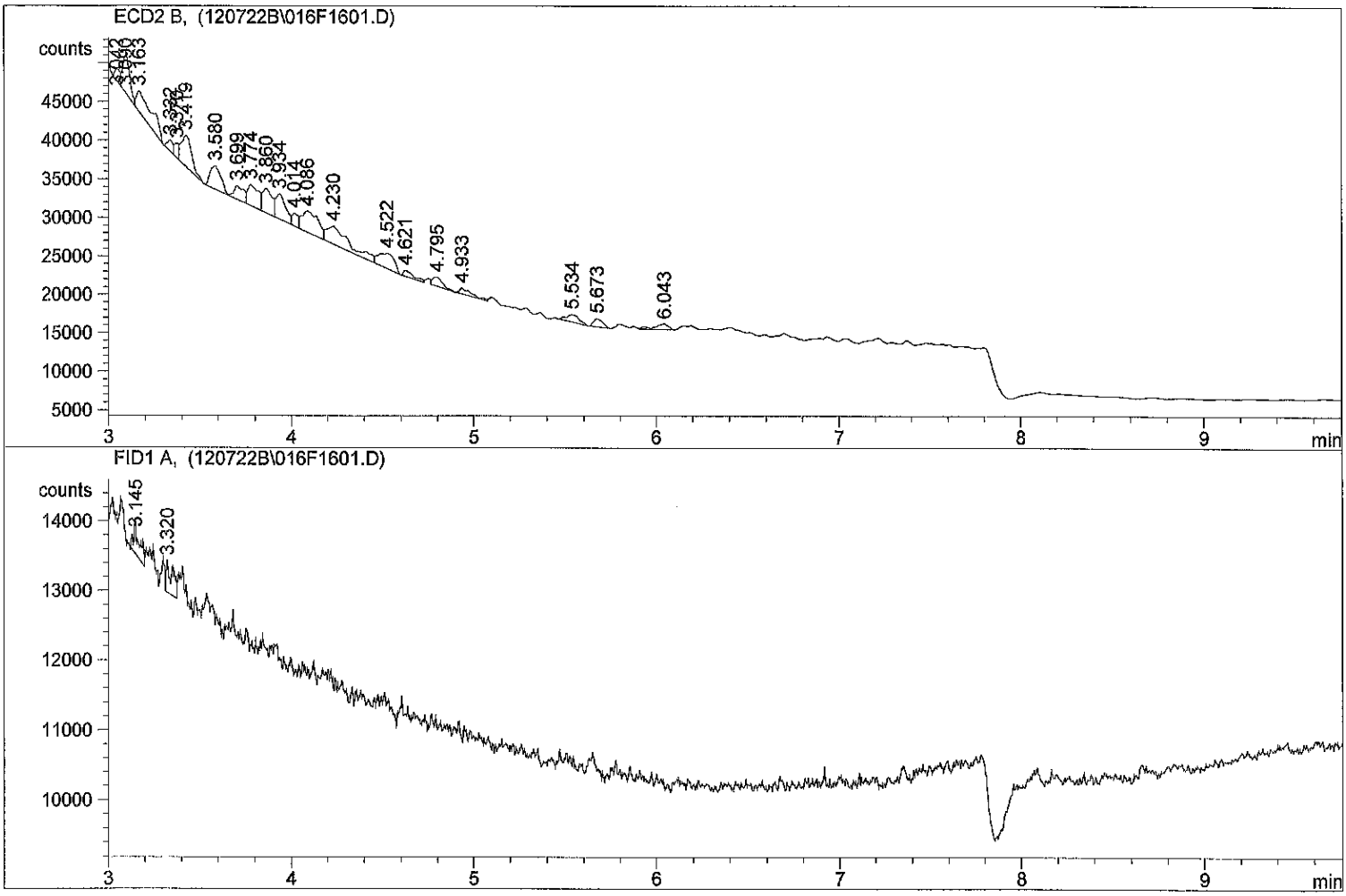
Injection Date	: 12/7/2022 9:24:35 PM	Seq. Line	: 15
Sample Name	: 22L0136 12	Location	: Vial 15
Acq. Operator	: YL	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\120722BS.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

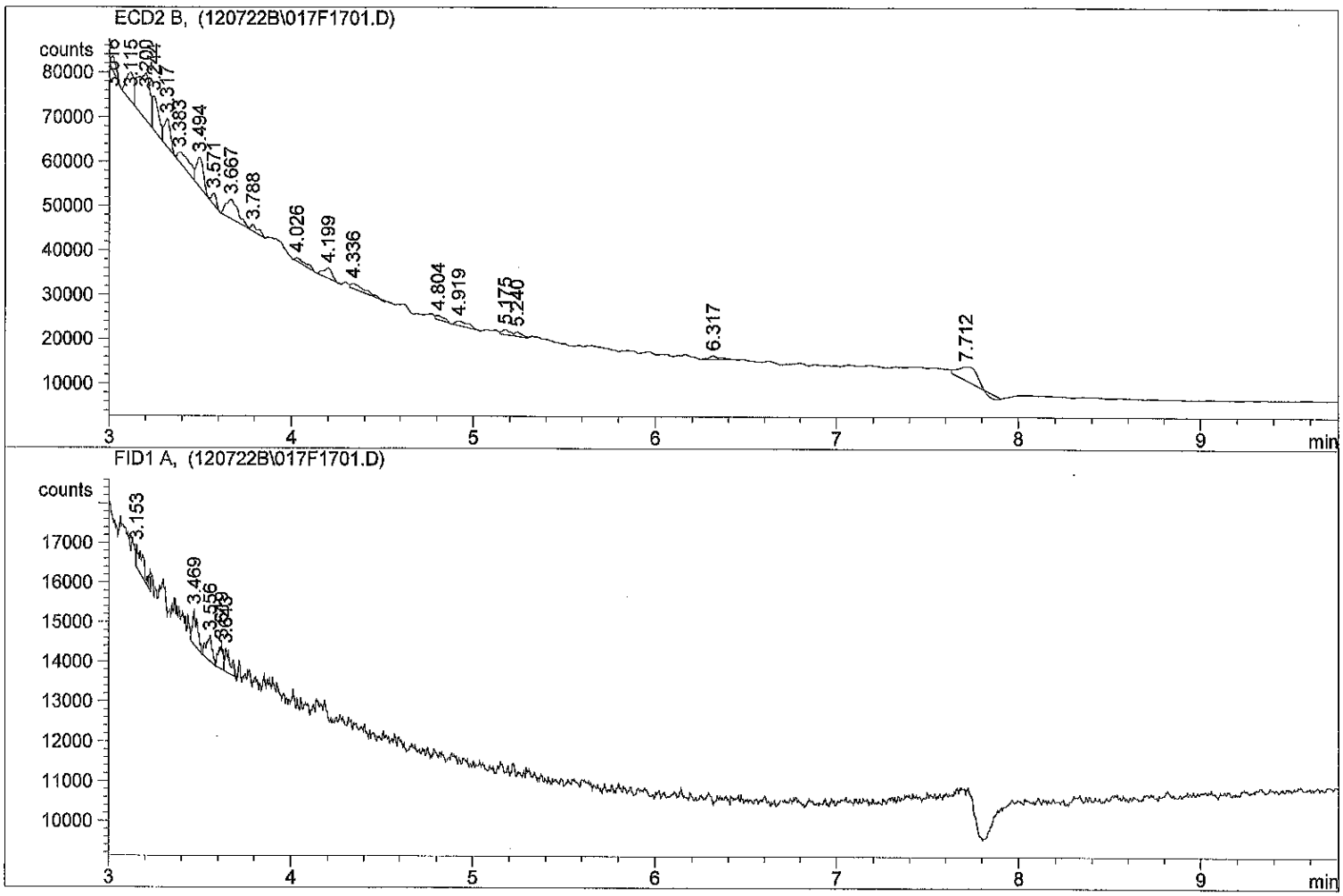
Injection Date : 12/7/2022 9:37:40 PM Seq. Line : 16
Sample Name : 22L0136 13 Location : Vial 16
Acq. Operator : YL Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\120722BS.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

Injection Date	: 12/7/2022 9:52:49 PM	Seq. Line	: 17
Sample Name	: 22L0136 14	Location	: Vial 17
Acq. Operator	: YL	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\120722BS.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

PREPARATION BATCH SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 22L0136

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Batch: BKL0548 Batch Matrix: Solid Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SS766	22L0136-09RE1	12262244ECD7.D	12/22/22 16:19	From BKL0190 by CTO on 21-Dec-2022
LDW22-SS771-FD	22L0136-11RE1	12262247ECD7.D	12/22/22 16:19	From BKL0190 by CTO on 21-Dec-2022
Blank	BKL0548-BLK1	12262240ECD7.D	12/22/22 16:19	
LCS	BKL0548-BS1	12262241ECD7.D	12/22/22 16:19	
LCS Dup	BKL0548-BSD1	12262242ECD7.D	12/22/22 16:19	
LDW22-SS766	BKL0548-MS1	12262245ECD7.D	12/22/22 16:19	
LDW22-SS766	BKL0548-MSD1	12262246ECD7.D	12/22/22 16:19	
Reference	BKL0548-SRM1	12262243ECD7.D	12/22/22 16:19	

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0548 RE

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

Matrix: Solid **Date Prepared:** 12/22/22 **Balance ID:** B1464626l4 **Set Up By:** CO 12/21/22

From BKL0190 on 12/21/2022 by CTO

WO Comments

22L0136: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

The following standards may be missing from this batch!

Designator	Description
QLS 5	QLS Spike

Analysis: 8082A PCB Solid 4

Lab Number & Container	% Solids	Initial (g) Target Dry: 12.5 (Wet) Actual	(REQ) Acid C/U (5mL)	(REQ) Sulfur C/U (5mL) 1 2 3	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
22L0136-09RE1 A	75.5	(16.57) 16.59	5mL	5mL	2mL	2.5 ____	1.0 ____	From BKL0190 by CTO on 21-Dec-2022
22L0136-11RE1 A	42.5	(29.38) 29.38	5mL	5mL	2mL	2.5 ____	1.0 ____	From BKL0190 by CTO on 21-Dec-2022

Batch QC

Lab Number	% Solids	Initial (g) Target Dry: 12.5 (Wet) Actual	(REQ) Acid C/U (5mL)	(REQ) Sulfur C/U (5mL) 1 2 3	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BKL0548-BLK1	100.0	(12.50) 12.50	5mL	5mL	2mL	2.5 ____	1.0 ____	(10g Actual Wt.)
BKL0548-BS1	100.0	(12.50) 12.50	5mL	5mL	2mL	2.5 ____	1.0 ____	(10g Actual Wt.)
BKL0548-BSD1	100.0	(12.50) 12.50	5mL	5mL	2mL	2.5 ____	1.0 ____	(10g Actual Wt.)
BKL0548-MS1	75.5	()(16.57) 16.57	5mL	5mL	2mL	2.5 ____	1.0 ____	Use 22L0136-09RE1
BKL0548-MSD1	7535	()(16.57) 16.57	5mL	5mL	2mL	2.5 ____	1.0 ____	Use 22L0136-09RE1
BKL0548-SRM1	100.0	~~(12.50)~~ (2.50) 2.50	5mL	5mL	2mL	2.5 ____	1.0 ____	Use K010815

+1g DI WATER

12/22/22
Client ID verified By Date

AA 12-23-22
Preparation Reviewed By Date

12/22/22 16:19
Extraction Date and Time

Printed: 12/21/2022 2:56:02PM

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0548

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

WO Comments

22L0136: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

Prep Steps

Microwave
CT (1) 2 3
JL 12/22/22
Analyst/Date

KD
100°C
Hexane Exchange
(2 X 20 mL)
1 2 3 (4) (5) 6
AA 12-23-22
Analyst/Date

TurboVap
Pre Cleanups
1 2 3 (4) 5
AA 12-23-22
Analyst/Date

TurboVap
Post Cleanups
1 (2) 3 4 5
AA 12-23-22
Analyst/Date

Vialing
AA 12-23-22
Analyst/Date

Reagents Used

Station/Reagent	Standard ID
Microwave Analyst: JL IGT Date: 12/22/22	
Neutral Glass Wool	KBL0562
1:1 Hexane/Acetone	KBL1642
Hexane	KBL1373
Anhydrous Sodium Sulfate	KBL1562
KD Analyst: AA Date: 12-23-22	
Anhydrous Sodium Sulfate	K010265
Hexane	K011373
Vialing Analyst: AA Date: 12-23-22	
Hexane	K011373
Concentrated Sulfuric Acid	K010364
Silica Gel (SPE) Darts	K011573
Sodium Sulfite	K003744
Tetrabutylammonium hydrogensulfate (TBAS)	K011530

Surrogates & Spike Standards Used

Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
Surrogate 2µg/mL	N ~~K010600~~ KBL1752 Exp Date: 1/23/2023	50µL	CT	JL
Spike 20µg/mL	1 K008150 Exp Date: 3/5/2023	63µL	CT	JL

MANUALLY ENTER EXPIRATION DATES!

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

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

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

Extraction Parameter: PCB Extraction Batch: ~~BKL0490~~ BKL0493

Total Solids Batch: BKL0132 Work Order(s): 22L0134

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
☒ No Anomalies (standard soil/wet sediment/sand/gravel)= 02.	CR 12/6
☐ Standing Water Decanted (Not shared)=	
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay/Clumps (Difficult to homogenize)=	
☒ Rocks (%+size)? 1/4" 10-20	CR 12/6
☐ Organics (Leaves/sticks/grass)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Received in 32oz jar(s)=Homogenized in Pyrex dish=	
☐ Previously Frozen =	
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
☐ Emulsions (%)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
☐ Received in 1.0L Bottle(s)=No Bottle Rinse=	
☐ Other Notes/Comments= (Note problems, concerns, corrective actions).	
☒ Share Samples Y / N	CR 12/6
☒ Multiple Jars Y / N	CR 12/6
☐ Sample Pre-Screens indicate analyte activity=	
☐ Sample weights/volumes reduced based on Pre-Screen=	

3056F

Revision 15
07/01/19

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0548

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

WO Comments

22L0136: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

Prep Instructions	
SPECIAL INSTRUCTIONS: 1. Weigh soil/sed into beakers-lightly dry with sodium sulfate. 2. Transfer to microwave vessel(s). Note: (do not fill vessels more than 2/3rd full. Some samples may require two vessels). 3. Add 1:1 Hexane/Acetone until the solvent layer is 3 inches above the soil layer after homogenization. 4. Add surr/spike. 5. Microwave on appropriate power setting determined by # of samples. 6. After microwave-Re-homogenize while hot then cool vessels in R-05 15 minutes. Re-homogenize while cool. 7. Decant 1:1 Hex/Ace into Erlenmeyer flask with sodium sulfate in bottom and funnel with neutral glasswool plug. 8. Re-homogenize and rinse with 1:1 Hexane/Acetone. 9. Let cool and decant solvent then empty the soil into the funnel and rinse with Hexane. 10. KD on 100° bath. 11. Exchange (2 X with 20mL) Hexane. 12. TurboVap. 13. Clean-ups. 14. TurboVap. 15. Vial with Hexane. A. Need Total Solids Y / [N] B. Archive/Freeze [Y] N	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Cleanup Batch:	CKL0190	Cleanup Type:	Sulfur
Cleanup Method:	EPA 3660B Sulfur Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SS766	22L0136-09		12/15/2022	
Matrix Spike Dup	BKL0190-MSD1	12172210ECD7.D	12/15/2022	
Matrix Spike	BKL0190-MS1	12172209ECD7.D	12/15/2022	
LCS Dup	BKL0190-BSD1	12172207ECD7.D	12/15/2022	
LCS	BKL0190-BS1	12172206ECD7.D	12/15/2022	
Blank	BKL0190-BLK1	12172205ECD7.D	12/15/2022	
LDW22-SS772	22L0136-12	12172226ECD7.D	12/15/2022	
LDW22-SS818	22L0136-06	12172220ECD7.D	12/15/2022	
LDW22-SS811	22L0136-07	12172221ECD7.D	12/15/2022	
LDW22-SS771	22L0136-10	12172224ECD7.D	12/15/2022	
LDW22-SS819	22L0136-05	12172219ECD7.D	12/15/2022	
LDW22-SS820	22L0136-04	12172218ECD7.D	12/15/2022	
LDW22-SS821	22L0136-03	12172217ECD7.D	12/15/2022	
Reference	BKL0190-SRM1	12172208ECD7.D	12/15/2022	
LDW22-SS822	22L0136-02	12172214ECD7.D	12/15/2022	
LDW22-SS823	22L0136-01	12172213ECD7.D	12/15/2022	
LDW22-SS786	22L0136-08	12172222ECD7.D	12/15/2022	
LDW22-SS771-FD	22L0136-11		12/15/2022	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CKL0190

Matrix: Solid **Cleanup using: Organics - EPA 3660B Sulfur Cleanup - uL** **Printed: 12/16/2022 2:56:52PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0104-01	B	LDW22-SS773	B 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0104-02	B	LDW22-SS774	B 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-01	A	LDW22-SS823	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-02	A	LDW22-SS822	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-03	A	LDW22-SS821	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-04	A	LDW22-SS820	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-05	A	LDW22-SS819	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-06	A	LDW22-SS818	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-07	A	LDW22-SS811	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-08	A	LDW22-SS786	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-09	A	LDW22-SS766	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-10	A	LDW22-SS771	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-11	A	LDW22-SS771-FD	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-12	A	LDW22-SS772	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
BKL0190-BLK1	-	Blank	-	2.5	2.5	-	12/15/2022	NRB	
BKL0190-BS1	-	LCS	-	2.5	2.5	-	12/15/2022	NRB	
BKL0190-BSD1	-	LCS Dup	-	2.5	2.5	-	12/15/2022	NRB	
BKL0190-MS1	-	Matrix Spike	-	2.5	2.5	-	12/15/2022	NRB	
BKL0190-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	12/15/2022	NRB	
BKL0190-SRM1	-	Reference	-	2.5	2.5	-	12/15/2022	NRB	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Cleanup Batch:	CKL0191	Cleanup Type:	Sulfuric Acid
Cleanup Method:	EPA 3665 Sulfuric Acid Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SS771	22L0136-10	12172224ECD7.D	12/15/2022	
LDW22-SS823	22L0136-01	12172213ECD7.D	12/15/2022	
Blank	BKL0190-BLK1	12172205ECD7.D	12/15/2022	
LDW22-SS821	22L0136-03	12172217ECD7.D	12/15/2022	
LDW22-SS819	22L0136-05	12172219ECD7.D	12/15/2022	
LDW22-SS818	22L0136-06	12172220ECD7.D	12/15/2022	
LDW22-SS811	22L0136-07	12172221ECD7.D	12/15/2022	
LDW22-SS820	22L0136-04	12172218ECD7.D	12/15/2022	
LDW22-SS771-FD	22L0136-11		12/15/2022	
LDW22-SS822	22L0136-02	12172214ECD7.D	12/15/2022	
LDW22-SS766	22L0136-09		12/15/2022	
Reference	BKL0190-SRM1	12172208ECD7.D	12/15/2022	
Matrix Spike Dup	BKL0190-MSD1	12172210ECD7.D	12/15/2022	
Matrix Spike	BKL0190-MS1	12172209ECD7.D	12/15/2022	
LCS Dup	BKL0190-BSD1	12172207ECD7.D	12/15/2022	
LDW22-SS772	22L0136-12	12172226ECD7.D	12/15/2022	
LCS	BKL0190-BS1	12172206ECD7.D	12/15/2022	
LDW22-SS786	22L0136-08	12172222ECD7.D	12/15/2022	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CKL0191

Matrix: Solid **Cleanup using: Organics - EPA 3665 Sulfuric Acid Cleanup - uL** **Printed: 12/16/2022 2:57:49PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0104-01	B	LDW22-SS773	B 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0104-02	B	LDW22-SS774	B 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-01	A	LDW22-SS823	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-02	A	LDW22-SS822	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-03	A	LDW22-SS821	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-04	A	LDW22-SS820	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-05	A	LDW22-SS819	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-06	A	LDW22-SS818	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-07	A	LDW22-SS811	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-08	A	LDW22-SS786	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-09	A	LDW22-SS766	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-10	A	LDW22-SS771	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-11	A	LDW22-SS771-FD	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-12	A	LDW22-SS772	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
BKL0190-BLK1	-	Blank	-	2.5	2.5	-	12/15/2022	NRB	
BKL0190-BS1	-	LCS	-	2.5	2.5	-	12/15/2022	NRB	
BKL0190-BSD1	-	LCS Dup	-	2.5	2.5	-	12/15/2022	NRB	
BKL0190-MS1	-	Matrix Spike	-	2.5	2.5	-	12/15/2022	NRB	
BKL0190-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	12/15/2022	NRB	
BKL0190-SRM1	-	Reference	-	2.5	2.5	-	12/15/2022	NRB	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Cleanup Batch:	CKL0192	Cleanup Type:	Silica Gel
Cleanup Method:	EPA 3630C Silica Gel Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SS823	22L0136-01	12172213ECD7.D	12/16/2022	
LDW22-SS822	22L0136-02	12172214ECD7.D	12/16/2022	
LDW22-SS820	22L0136-04	12172218ECD7.D	12/16/2022	
LDW22-SS819	22L0136-05	12172219ECD7.D	12/16/2022	
LDW22-SS818	22L0136-06	12172220ECD7.D	12/16/2022	
LDW22-SS811	22L0136-07	12172221ECD7.D	12/16/2022	
LDW22-SS786	22L0136-08	12172222ECD7.D	12/16/2022	
LDW22-SS766	22L0136-09		12/16/2022	
LDW22-SS771	22L0136-10	12172224ECD7.D	12/16/2022	
LDW22-SS821	22L0136-03	12172217ECD7.D	12/16/2022	
LDW22-SS771-FD	22L0136-11		12/16/2022	
Blank	BKL0190-BLK1	12172205ECD7.D	12/16/2022	
LCS	BKL0190-BS1	12172206ECD7.D	12/16/2022	
LCS Dup	BKL0190-BSD1	12172207ECD7.D	12/16/2022	
Matrix Spike	BKL0190-MS1	12172209ECD7.D	12/16/2022	
Matrix Spike Dup	BKL0190-MSD1	12172210ECD7.D	12/16/2022	
Reference	BKL0190-SRM1	12172208ECD7.D	12/16/2022	
LDW22-SS772	22L0136-12	12172226ECD7.D	12/16/2022	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CKL0192

Matrix: Solid **Cleanup using: Organics - EPA 3660C Silica Gel Cleanup - uL** **Printed: 12/16/2022 2:58:20PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0104-01	B	LDW22-SS773	B 01	2.5	2.5	8082A PCB Solid 4	12/16/2022	TWC	
22L0104-02	B	LDW22-SS774	B 01	2.5	2.5	8082A PCB Solid 4	12/16/2022	TWC	
22L0136-01	A	LDW22-SS823	A 01	2.5	2.5	8082A PCB Solid 4	12/16/2022	TWC	
22L0136-02	A	LDW22-SS822	A 01	2.5	2.5	8082A PCB Solid 4	12/16/2022	TWC	
22L0136-03	A	LDW22-SS821	A 01	2.5	2.5	8082A PCB Solid 4	12/16/2022	TWC	
22L0136-04	A	LDW22-SS820	A 01	2.5	2.5	8082A PCB Solid 4	12/16/2022	TWC	
22L0136-05	A	LDW22-SS819	A 01	2.5	2.5	8082A PCB Solid 4	12/16/2022	TWC	
22L0136-06	A	LDW22-SS818	A 01	2.5	2.5	8082A PCB Solid 4	12/16/2022	TWC	
22L0136-07	A	LDW22-SS811	A 01	2.5	2.5	8082A PCB Solid 4	12/16/2022	TWC	
22L0136-08	A	LDW22-SS786	A 01	2.5	2.5	8082A PCB Solid 4	12/16/2022	TWC	
22L0136-09	A	LDW22-SS766	A 01	2.5	2.5	8082A PCB Solid 4	12/16/2022	TWC	
22L0136-10	A	LDW22-SS771	A 01	2.5	2.5	8082A PCB Solid 4	12/16/2022	TWC	
22L0136-11	A	LDW22-SS771-FD	A 01	2.5	2.5	8082A PCB Solid 4	12/16/2022	TWC	
22L0136-12	A	LDW22-SS772	A 01	2.5	2.5	8082A PCB Solid 4	12/16/2022	TWC	
BKL0190-BLK1	-	Blank	-	2.5	2.5	-	12/16/2022	TWC	
BKL0190-BS1	-	LCS	-	2.5	2.5	-	12/16/2022	TWC	
BKL0190-BSD1	-	LCS Dup	-	2.5	2.5	-	12/16/2022	TWC	
BKL0190-MS1	-	Matrix Spike	-	2.5	2.5	-	12/16/2022	TWC	
BKL0190-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	12/16/2022	TWC	
BKL0190-SRM1	-	Reference	-	2.5	2.5	-	12/16/2022	TWC	

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Cleanup Batch:	CKL0258	Cleanup Type:	Sulfuric Acid
Cleanup Method:	EPA 3665 Sulfuric Acid Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Matrix Spike Dup	BKL0548-MSD1	12262246ECD7.D	12/23/2022	
LDW22-SS766	22L0136-09RE1	12262244ECD7.D	12/23/2022	
LCS	BKL0548-BS1	12262241ECD7.D	12/23/2022	
Blank	BKL0548-BLK1	12262240ECD7.D	12/23/2022	
LDW22-SS771-FD	22L0136-11RE1	12262247ECD7.D	12/23/2022	
Matrix Spike	BKL0548-MS1	12262245ECD7.D	12/23/2022	
Reference	BKL0548-SRM1	12262243ECD7.D	12/23/2022	
LCS Dup	BKL0548-BSD1	12262242ECD7.D	12/23/2022	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CKL0258

Matrix: Solid **Cleanup using: Organics - EPA 3665 Sulfuric Acid Cleanup - uL** **Printed: 12/23/2022 3:18:08PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0136-09RE1	A	LDW22-SS766	A 03	2.5	2.5	8082A PCB Solid 4	12/23/2022	AA	
22L0136-11RE1	A	LDW22-SS771-FD	A 03	2.5	2.5	8082A PCB Solid 4	12/23/2022	AA	
BKL0548-BLK1	-	Blank	-	2.5	2.5	-	12/23/2022	AA	
BKL0548-BS1	-	LCS	-	2.5	2.5	-	12/23/2022	AA	
BKL0548-BSD1	-	LCS Dup	-	2.5	2.5	-	12/23/2022	AA	
BKL0548-MS1	-	Matrix Spike	-	2.5	2.5	-	12/23/2022	AA	
BKL0548-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	12/23/2022	AA	
BKL0548-SRM1	-	Reference	-	2.5	2.5	-	12/23/2022	AA	

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Cleanup Batch:	CKL0259	Cleanup Type:	Sulfur
Cleanup Method:	EPA 3660B Sulfur Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Matrix Spike Dup	BKL0548-MSD1	12262246ECD7.D	12/23/2022	
Matrix Spike	BKL0548-MS1	12262245ECD7.D	12/23/2022	
LCS Dup	BKL0548-BSD1	12262242ECD7.D	12/23/2022	
LCS	BKL0548-BS1	12262241ECD7.D	12/23/2022	
Blank	BKL0548-BLK1	12262240ECD7.D	12/23/2022	
LDW22-SS766	22L0136-09RE1	12262244ECD7.D	12/23/2022	
LDW22-SS771-FD	22L0136-11RE1	12262247ECD7.D	12/23/2022	
Reference	BKL0548-SRM1	12262243ECD7.D	12/23/2022	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CKL0259

Matrix: Solid **Cleanup using: Organics - EPA 3660B Sulfur Cleanup - uL** **Printed: 12/23/2022 3:19:03PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0136-09RE1	A	LDW22-SS766	A 03	2.5	2.5	8082A PCB Solid 4	12/23/2022	AA	
22L0136-11RE1	A	LDW22-SS771-FD	A 03	2.5	2.5	8082A PCB Solid 4	12/23/2022	AA	
BKL0548-BLK1	-	Blank	-	2.5	2.5	-	12/23/2022	AA	
BKL0548-BS1	-	LCS	-	2.5	2.5	-	12/23/2022	AA	
BKL0548-BSD1	-	LCS Dup	-	2.5	2.5	-	12/23/2022	AA	
BKL0548-MS1	-	Matrix Spike	-	2.5	2.5	-	12/23/2022	AA	
BKL0548-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	12/23/2022	AA	
BKL0548-SRM1	-	Reference	-	2.5	2.5	-	12/23/2022	AA	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Cleanup Batch:	CKL0260	Cleanup Type:	Silica Gel
Cleanup Method:	EPA 3630C Silica Gel Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SS766	22L0136-09RE1	12262244ECD7.D	12/23/2022	
Matrix Spike Dup	BKL0548-MSD1	12262246ECD7.D	12/23/2022	
Matrix Spike	BKL0548-MS1	12262245ECD7.D	12/23/2022	
LCS Dup	BKL0548-BSD1	12262242ECD7.D	12/23/2022	
LCS	BKL0548-BS1	12262241ECD7.D	12/23/2022	
Blank	BKL0548-BLK1	12262240ECD7.D	12/23/2022	
Reference	BKL0548-SRM1	12262243ECD7.D	12/23/2022	
LDW22-SS771-FD	22L0136-11RE1	12262247ECD7.D	12/23/2022	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CKL0260

Matrix: Solid **Cleanup using: Organics - EPA 3660C Silica Gel Cleanup - uL** **Printed: 12/23/2022 3:19:41PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0136-09RE1	A	LDW22-SS766	A 03	2.5	2.5	8082A PCB Solid 4	12/23/2022	AA	
22L0136-11RE1	A	LDW22-SS771-FD	A 03	2.5	2.5	8082A PCB Solid 4	12/23/2022	AA	
BKL0548-BLK1	-	Blank	-	2.5	2.5	-	12/23/2022	AA	
BKL0548-BS1	-	LCS	-	2.5	2.5	-	12/23/2022	AA	
BKL0548-BSD1	-	LCS Dup	-	2.5	2.5	-	12/23/2022	AA	
BKL0548-MS1	-	Matrix Spike	-	2.5	2.5	-	12/23/2022	AA	
BKL0548-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	12/23/2022	AA	
BKL0548-SRM1	-	Reference	-	2.5	2.5	-	12/23/2022	AA	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I

METHOD BLANK DATA SHEET

EPA 8082A

Blank

Laboratory:	Analytical Resources, LLC			SDG:	22L0136
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Solid	Laboratory ID:	BKL0190-BLK1	File ID:	12172205ECD7.D
Sampled:	N/A	Prepared:	12/08/22 14:38	Analyzed:	12/17/22 10:41
Solids:		Preparation:	EPA 3546 (Microwave)	Initial/Final:	12.5 g / 2.5 mL
Batch:	BKL0190	Sequence:	SKL0280	Calibration:	FL00010
Instrument:	ECD7	Column:	ZB5	Cleanups:	Silica Gel, Sulfur, Sulfuric Acid

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
12674-11-2	Aroclor 1016	1	4.0	U	1.6	4.0
11104-28-2	Aroclor 1221	1	4.0	U	1.6	4.0
11141-16-5	Aroclor 1232	1	4.0	U	1.6	4.0
53469-21-9	Aroclor 1242	1	4.0	U	1.6	4.0
12672-29-6	Aroclor 1248	1	4.0	U	1.6	4.0
11097-69-1	Aroclor 1254	1	4.0	U	1.6	4.0
11096-82-5	Aroclor 1260	1	4.0	U	0.6	4.0

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
Decachlorobiphenyl	8.0000	9.02	113	40 - 126	
Tetrachlorometaxylene	8.0000	7.53	94.2	44 - 120	
Decachlorobiphenyl [2C]	8.0000	8.26	103	40 - 126	
Tetrachlorometaxylene [2C]	8.0000	7.05	88.1	44 - 120	

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172205ECD7.D
Data file 2: /221217.b/221217.b/12172205ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0190-BLK1
Client ID:
Injection Date: 17-DEC-2022 10:41
Report Date: 12/20/2022 15:07
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.835	-0.001	251329	5.712	0.002	136760	37.7	35.2	6.7	Tetrachloro-m-xylene
13.906	-0.002	435505	14.134	0.000	292074	45.1	41.3	8.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	470835	5.2
Hexabromobiphenyl	798898	1053859	31.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	283130	13.7
Hexabromobiphenyl	362541	497953	37.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.936 - 13.808) = 53065 Col1 Total PCB = 0.0 ppm*

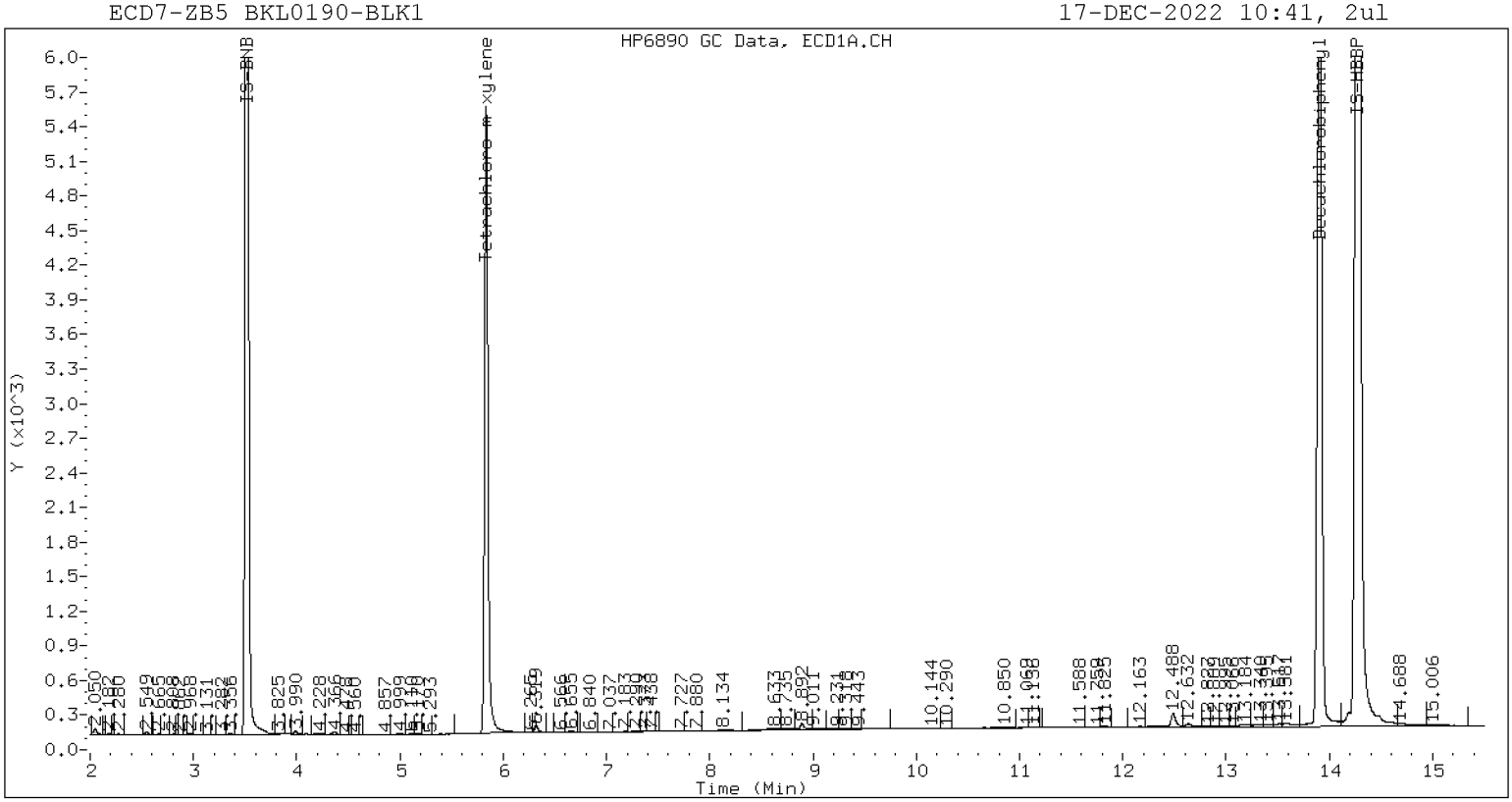
Total PCB Area Col2 (5.936 - 13.808) = 12724 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

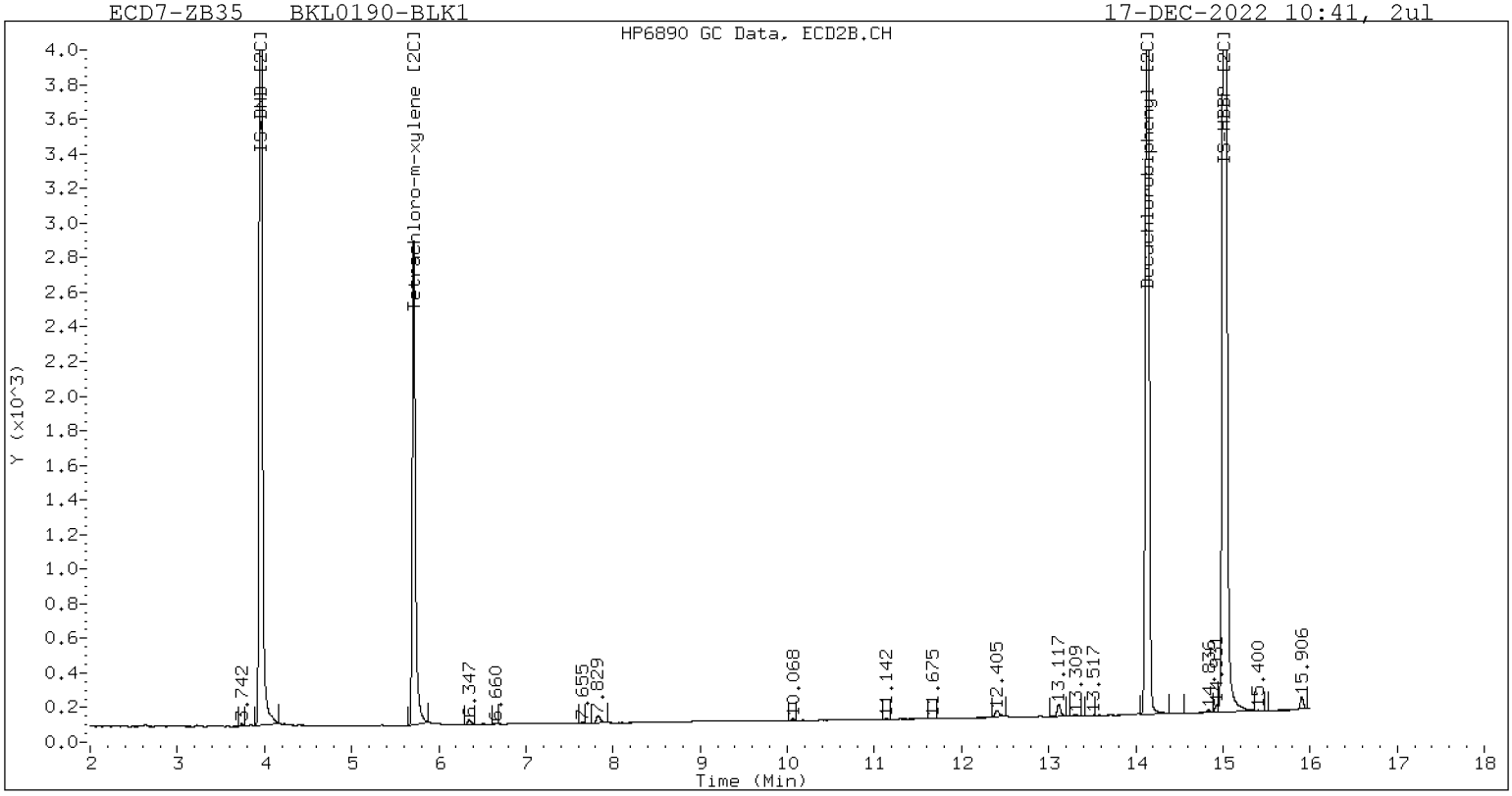
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0190-BLK1 17-DEC-2022 10:41, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0190-BLK1 17-DEC-2022 10:41, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I

METHOD BLANK DATA SHEET

EPA 8082A

Blank

Laboratory:	Analytical Resources, LLC			SDG:	22L0136
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Solid	Laboratory ID:	BKL0548-BLK1	File ID:	12262240ECD7.D
Sampled:	N/A	Prepared:	12/22/22 16:19	Analyzed:	12/27/22 05:35
Solids:		Preparation:	EPA 3546 (Microwave)	Initial/Final:	12.5 g / 2.5 mL
Batch:	BKL0548	Sequence:	SKL0359	Calibration:	FL00010
Instrument:	ECD7	Column:	ZB5	Cleanups:	Silica Gel, Sulfur, Sulfuric Acid

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
12674-11-2	Aroclor 1016	1	4.0	U	1.6	4.0
11104-28-2	Aroclor 1221	1	4.0	U	1.6	4.0
11141-16-5	Aroclor 1232	1	4.0	U	1.6	4.0
53469-21-9	Aroclor 1242	1	4.0	U	1.6	4.0
12672-29-6	Aroclor 1248	1	4.0	U	1.6	4.0
11097-69-1	Aroclor 1254	1	4.0	U	1.6	4.0
11096-82-5	Aroclor 1260	1	4.0	U	0.6	4.0

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
Decachlorobiphenyl	8.0000	8.44	106	40 - 126	
Tetrachlorometaxylene	8.0000	6.43	80.4	44 - 120	
Decachlorobiphenyl [2C]	8.0000	8.17	102	40 - 126	
Tetrachlorometaxylene [2C]	8.0000	6.36	79.5	44 - 120	

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221226.b/12262240ECD7.D
Data file 2: /221226.b/221226.b/12262240ECD7.D
Method: \\target\share\chem4\ecd7.i\221226.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0548-BLK1
Client ID:
Injection Date: 27-DEC-2022 05:35
Report Date: 12/29/2022 12:29
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.000	242805	5.707	-0.000	147759	32.2	31.8	1.2	Tetrachloro-m-xylene
13.901	0.001	377687	14.127	-0.000	279128	42.2	40.8	3.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	532615	19.0
Hexabromobiphenyl	798898	975810	22.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	339065	36.1
Hexabromobiphenyl	362541	481300	32.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.931 - 13.801) = 83748 Col1 Total PCB = 0.0 ppm*

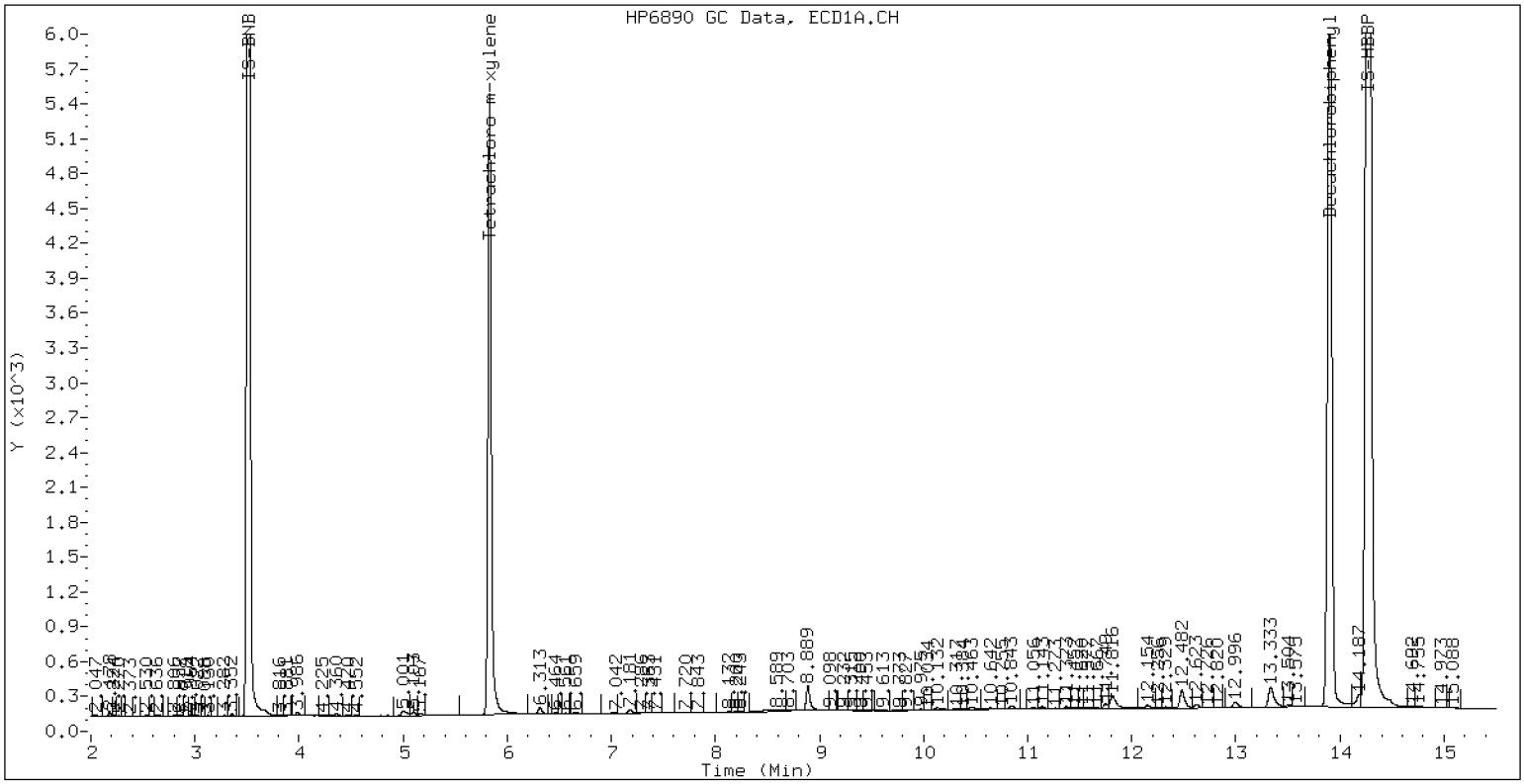
Total PCB Area Col2 (5.807 - 14.027) = 41868 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

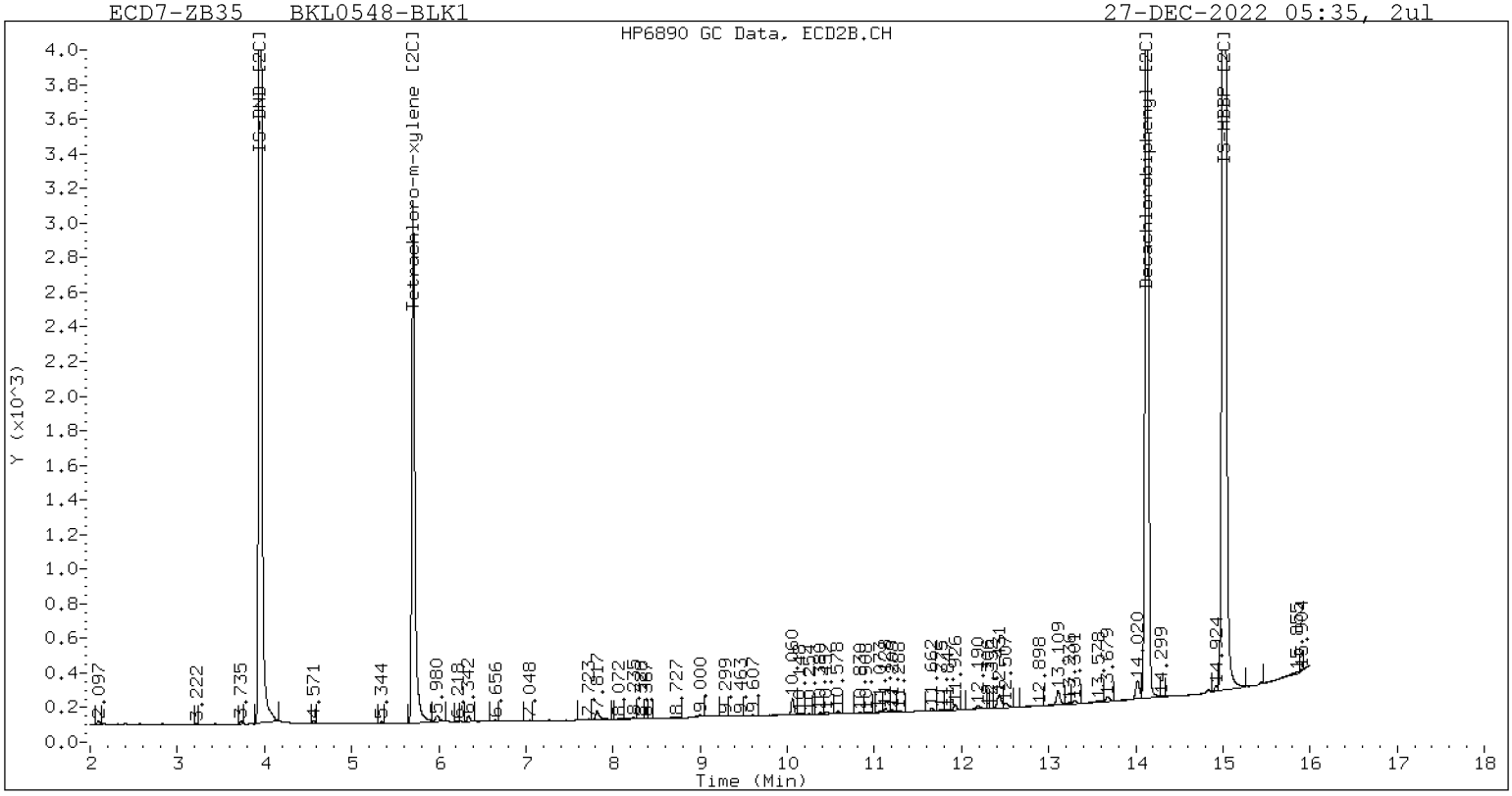
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0548-BLK1 27-DEC-2022 05:35, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0548-BLK1 27-DEC-2022 05:35, 2ul



ZB-35 Manual Integration: NO

LCS / LCS DUPLICATE RECOVERY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/17/22 11:03
Batch:	BKL0190	Laboratory ID:	BKL0190-BS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS
Initial/Final:	12.5 g / 2.5 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Aroclor 1016	101	91.1		90.4	56 - 120
Aroclor 1260	101	88.2		87.5	58 - 120

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS	
						RPD	REC.
Aroclor 1016	101	91.2		90.4	0.101	30	56 - 120
Aroclor 1260	101	90.2		89.4	2.25	30	58 - 120

* Indicates values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172206ECD7.D
Data file 2: /221217.b/221217.b/12172206ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0190-BS1
Client ID:
Injection Date: 17-DEC-2022 11:03
Report Date: 12/20/2022 15:07
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.834	-0.002	270831	5.712	0.002	146218	38.2	35.4	7.5	Tetrachloro-m-xylene
13.904	-0.004	452339	14.133	-0.000	309661	42.5	41.0	3.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	500820	11.9
Hexabromobiphenyl	798898	1161515	45.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	301209	20.9
Hexabromobiphenyl	362541	531830	46.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.290	-0.004	75138	449.8	1	7.274	-0.000	64280	417.4
Aroclor-1016	2	7.671	-0.013	251787	466.8	2	7.868	-0.004	146586	441.3
Aroclor-1016	3	7.809	-0.009	103119	421.9	3	8.068	-0.004	59430	416.6
Aroclor-1016	4	8.422	-0.007	75264	483.0	4	8.239	-0.004	35061	467.4
Total Col1Ave (4 peaks):		455.4				Total Col2Ave (4 peaks):		435.7	RPD = 4	
Corrected Ave (3 peaks):		446.2				Corrected Ave (3 peaks):		425.1	RPD = 5	
Aroclor-1221	1	4.760	-0.000	549	13.3	1	4.990	0.002	256	10.1
Aroclor-1221	2	6.155	-0.004	9925	136.1	2	6.321	-0.000	6397	132.0
Aroclor-1221	3	6.406	-0.003	48525	288.4	3	6.643	-0.002	28105	344.7
Total Col1Ave (3 peaks):		145.9				Total Col2Ave (3 peaks):		162.3	RPD = 11	
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.760	-0.001	549	22.0	1	4.990	0.000	256	17.5
Aroclor-1232	2	6.155	-0.004	9925	188.6	2	7.274	-0.003	64280	859.4
Aroclor-1232	3	7.671	-0.012	251787	1065.3	3	7.868	-0.008	146586	1002.4
Aroclor-1232	4	8.595	-0.010	97028	967.6	4	8.729	-0.005	44612	1125.2
Total Col1Ave (4 peaks):		560.9				Total Col2Ave (4 peaks):		751.1	RPD = 29	
Corrected Ave (3 peaks):		392.7				Corrected Ave (3 peaks):		626.4	RPD = 46*	
Aroclor-1242	1	7.290	-0.005	75138	529.3	1	7.274	-0.001	64280	504.2
Aroclor-1242	2	7.671	-0.014	251787	558.6	2	7.868	-0.005	146586	541.7
Aroclor-1242	3	8.422	-0.008	75264	580.4	3	9.169	-0.006	8218	94.1
Aroclor-1242	4	9.010	-0.021	87669	325.6	4	9.593	-0.005	4314	41.1
Total Col1Ave (4 peaks):		498.5				Total Col2Ave (4 peaks):		295.3	RPD = 51*	
Corrected Ave (3 peaks):		471.2				Corrected Ave (3 peaks):		213.2	RPD = 75*	
Aroclor-1248	1	8.422	-0.006	75264	349.5	1	8.323	-0.002	43711	355.2
Aroclor-1248	2	8.595	-0.009	97028	352.9	2	8.729	-0.001	44612	344.7
Aroclor-1248	3	9.010	-0.012	87669	177.3	3	9.169	-0.007	8218	52.2
Aroclor-1248	4	9.314	0.003	79772	329.2	4	9.593	-0.005	4314	23.3
Total Col1Ave (4 peaks):		302.2				Total Col2Ave (4 peaks):		193.9	RPD = 44*	
Corrected Ave (3 peaks):		285.3				Corrected Ave (3 peaks):		140.1	RPD = 68*	
Aroclor-1254	1	9.314	-0.007	79772	180.9	1	9.463	-0.001	37949	195.4
Aroclor-1254	2	---			0.0	2	9.982	0.002	8266	52.9
Aroclor-1254	3	9.682	-0.012	15298	54.9	3	10.159	0.025	85546	254.9
Aroclor-1254	4	9.820	-0.011	44838	82.6	4	10.384	0.002	110261	317.2
Aroclor-1254	5	10.134	-0.055	211547	568.5	5	10.580	0.000	147232	878.3
Total Col1Ave (4 peaks):		221.7				Total Col2Ave (5 peaks):		339.8	RPD = 42*	
Corrected Ave (3 peaks):		106.1				Corrected Ave (4 peaks):		205.1	RPD = 64*	
Aroclor-1260	1	11.057	-0.005	178543	422.3	1	11.666	-0.001	115753	412.3
Aroclor-1260	2	11.374	-0.004	189583	433.5	2	11.929	-0.001	285634	405.5
Aroclor-1260	3	11.746	-0.006	496686	432.3	3	12.449	-0.000	73366	391.1
Aroclor-1260	4	12.150	-0.008	269761	461.0	4	12.514	0.000	199346	424.5
Aroclor-1260	5	12.256	-0.005	108888	454.6	NS	---			----
Total Col1Ave (5 peaks):		440.8				Total Col2Ave (4 peaks):		408.4	RPD = 8	
Corrected Ave (4 peaks):		435.7				Corrected Ave (3 peaks):		403.0	RPD = 8	
Aroclor-1262	1	10.839	-0.009	355856	916.2	1	11.213	-0.005	106034	262.2
Aroclor-1262	2	12.256	-0.006	108888	180.3	2	11.666	-0.005	115753	330.5
Aroclor-1262	3	12.331	-0.006	131042	203.2	3	12.449	-0.003	73366	189.9
Aroclor-1262	4	12.999	-0.006	121717	235.2	4	12.514	-0.006	199346	329.4
Total Col1Ave (4 peaks):		383.7				Total Col2Ave (4 peaks):		278.0	RPD = 32	
Corrected Ave (3 peaks):		206.2				Corrected Ave (3 peaks):		260.5	RPD = 23	
Aroclor-1268	1	12.256	-0.006	108888	67.0	1	12.449	-0.001	73366	73.1
Aroclor-1268	2	12.331	-0.004	131042	82.4	2	12.514	-0.004	199346	193.7
Aroclor-1268	3	12.738	0.021	58795	45.1	3	12.905	-0.004	3231	8.5
Aroclor-1268	4	13.500	-0.005	38418	9.7	4	13.721	-0.005	23043	8.4
Total Col1Ave (4 peaks):		51.1				Total Col2Ave (4 peaks):		70.9	RPD = 33	

Corrected Ave (3 peaks): 40.6 Corrected Ave (3 peaks): 30.0 RPD = 30

Total PCB Area Col1 (5.936 - 13.808) = 4943913 Col1 Total PCB = 0.9 ppm*

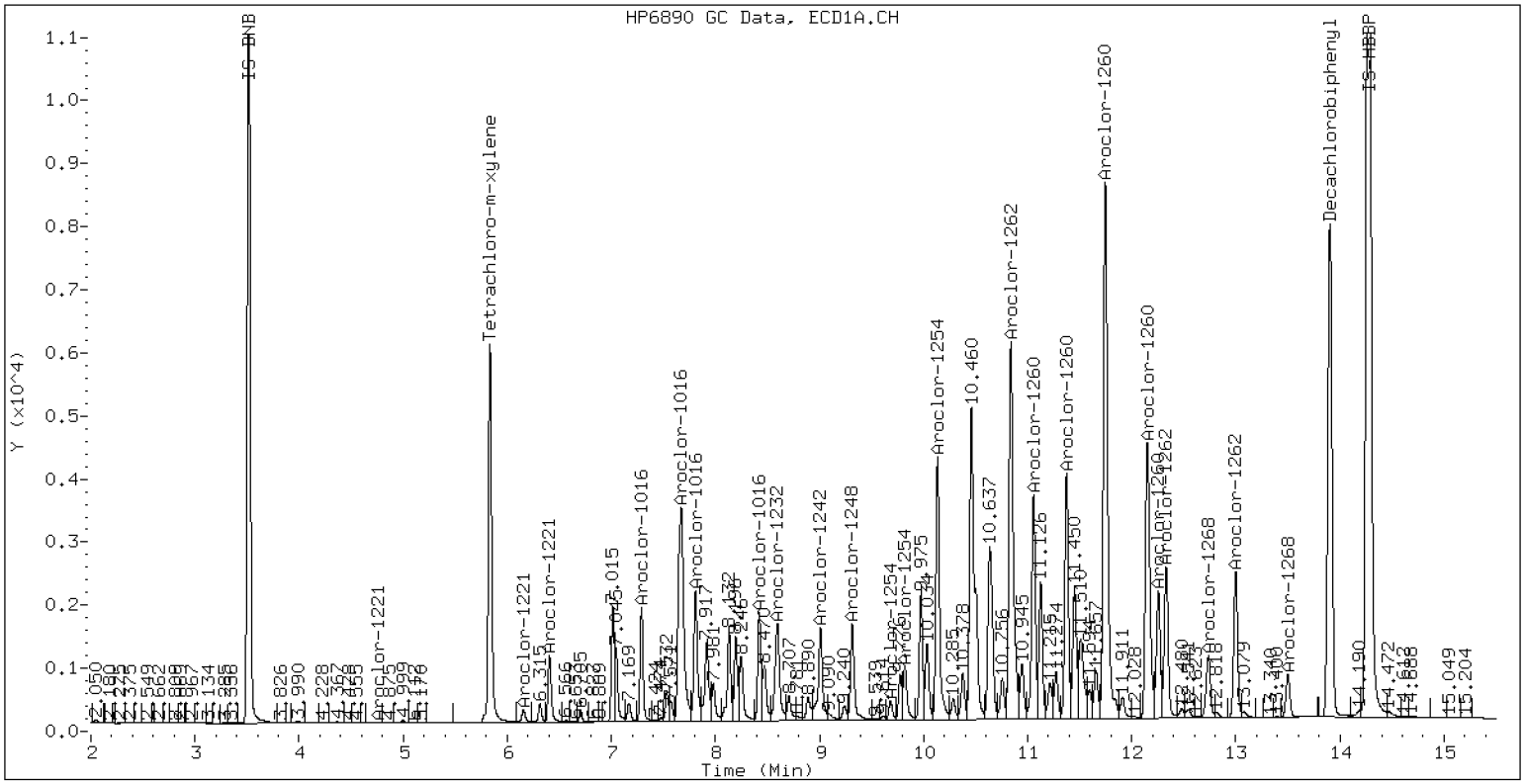
Total PCB Area Col2 (5.936 - 13.808) = 2717436 Col2 Total PCB = 1.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

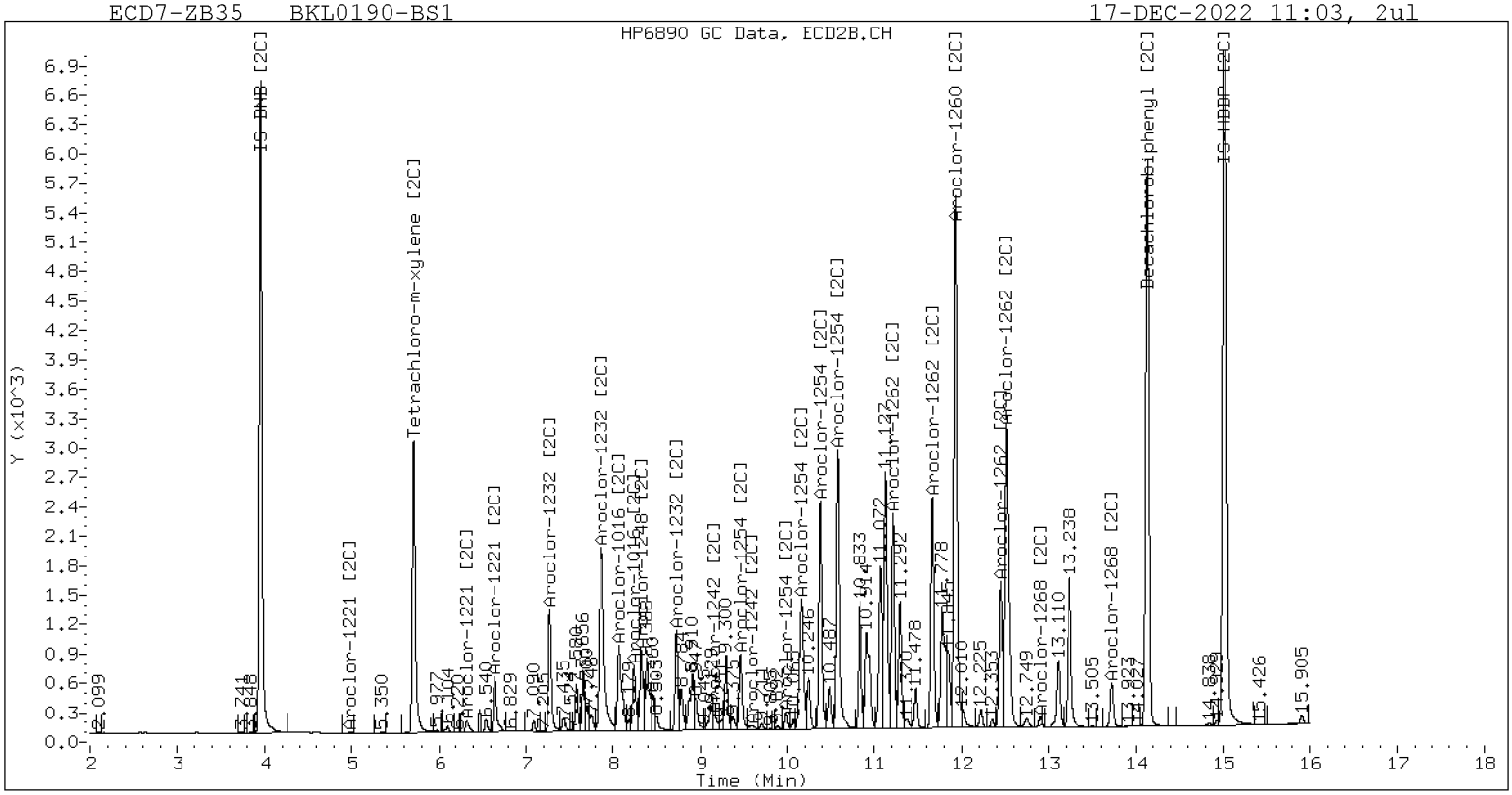
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0190-BS1 17-DEC-2022 11:03, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0190-BS1 17-DEC-2022 11:03, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172207ECD7.D
Data file 2: /221217.b/221217.b/12172207ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0190-BSD1
Client ID:
Injection Date: 17-DEC-2022 11:24
Report Date: 12/20/2022 15:07
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.833	-0.003	256803	5.710	-0.001	138790	36.0	33.3	7.7	Tetrachloro-m-xylene
13.906	-0.002	458515	14.134	0.001	313731	42.3	40.6	4.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	503514	12.5
Hexabromobiphenyl	798898	1181863	47.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	303797	22.0
Hexabromobiphenyl	362541	543761	50.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.289	-0.006	77389	460.8	1	7.273	-0.001	62648	403.3
Aroclor-1016	2	7.671	-0.013	251968	464.7	2	7.869	-0.004	143811	429.3
Aroclor-1016	3	7.808	-0.009	103977	423.1	3	8.068	-0.004	58148	404.2
Aroclor-1016	4	8.421	-0.008	74380	474.8	4	8.239	-0.004	34236	452.6
Total Col1Ave (4 peaks):					455.8	Total Col2Ave (4 peaks):				422.3 RPD = 8
Corrected Ave (3 peaks):					449.5	Corrected Ave (3 peaks):				412.3 RPD = 9
Aroclor-1221	1	4.758	-0.002	431	10.4	1	4.990	0.003	268	10.5
Aroclor-1221	2	6.154	-0.004	9300	126.8	2	6.320	-0.002	7630	156.1
Aroclor-1221	3	6.405	-0.004	47693	281.9	3	6.642	-0.003	27881	339.1
Total Col1Ave (3 peaks):					139.7	Total Col2Ave (3 peaks):				168.6 RPD = 19
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.758	-0.003	431	17.2	1	4.990	0.000	268	18.1
Aroclor-1232	2	6.154	-0.005	9300	175.8	2	7.273	-0.004	62648	830.4
Aroclor-1232	3	7.671	-0.012	251968	1060.3	3	7.869	-0.008	143811	975.1
Aroclor-1232	4	8.595	-0.010	97701	969.1	4	8.728	-0.006	43580	1089.8
Total Col1Ave (4 peaks):					555.6	Total Col2Ave (4 peaks):				728.4 RPD = 27
Corrected Ave (3 peaks):					387.3	Corrected Ave (3 peaks):				607.9 RPD = 44*
Aroclor-1242	1	7.289	-0.006	77389	542.3	1	7.273	-0.001	62648	487.2
Aroclor-1242	2	7.671	-0.014	251968	556.0	2	7.869	-0.004	143811	526.9
Aroclor-1242	3	8.421	-0.008	74380	570.5	3	9.170	-0.005	8015	91.0
Aroclor-1242	4	9.010	-0.021	105906	391.2	4	9.594	-0.004	4332	40.9
Total Col1Ave (4 peaks):					515.0	Total Col2Ave (4 peaks):				286.5 RPD = 57*
Corrected Ave (3 peaks):					496.5	Corrected Ave (3 peaks):				206.4 RPD = 83*
Aroclor-1248	1	8.421	-0.006	74380	343.6	1	8.322	-0.002	43073	347.1
Aroclor-1248	2	8.595	-0.009	97701	353.5	2	8.728	-0.002	43580	333.9
Aroclor-1248	3	9.010	-0.012	105906	213.0	3	9.170	-0.006	8015	50.5
Aroclor-1248	4	9.315	0.004	81357	334.0	4	9.594	-0.004	4332	23.2
Total Col1Ave (4 peaks):					311.0	Total Col2Ave (4 peaks):				188.7 RPD = 49*
Corrected Ave (3 peaks):					296.8	Corrected Ave (3 peaks):				135.9 RPD = 74*
Aroclor-1254	1	9.315	-0.006	81357	183.5	1	9.463	-0.001	38689	197.5
Aroclor-1254	2	---			0.0	2	9.984	0.003	8530	54.2
Aroclor-1254	3	9.683	-0.011	15447	55.2	3	10.159	0.025	87648	258.9
Aroclor-1254	4	9.821	-0.010	46020	84.3	4	10.384	0.002	113689	324.3
Aroclor-1254	5	10.134	-0.055	221289	591.5	5	10.579	-0.000	152447	901.6
Total Col1Ave (4 peaks):					228.6	Total Col2Ave (5 peaks):				347.3 RPD = 41*
Corrected Ave (3 peaks):					107.7	Corrected Ave (4 peaks):				208.7 RPD = 64*
Aroclor-1260	1	11.058	-0.004	186994	434.7	1	11.667	0.000	120585	420.1
Aroclor-1260	2	11.375	-0.002	198339	445.8	2	11.931	0.001	297508	413.1
Aroclor-1260	3	11.748	-0.004	517236	442.4	3	12.450	0.001	75332	392.8
Aroclor-1260	4	12.152	-0.006	278891	468.4	4	12.515	0.002	206875	430.9
Aroclor-1260	5	12.258	-0.004	112754	462.6	NS	---			----
Total Col1Ave (5 peaks):					450.8	Total Col2Ave (4 peaks):				414.2 RPD = 8
Corrected Ave (4 peaks):					446.4	Corrected Ave (3 peaks):				408.7 RPD = 9
Aroclor-1262	1	10.840	-0.009	371861	940.9	1	11.213	-0.004	110715	267.8
Aroclor-1262	2	12.258	-0.005	112754	183.5	2	11.667	-0.003	120585	336.7
Aroclor-1262	3	12.333	-0.003	136411	207.9	3	12.450	-0.001	75332	190.7
Aroclor-1262	4	13.000	-0.005	126287	239.8	4	12.515	-0.004	206875	334.4
Total Col1Ave (4 peaks):					393.0	Total Col2Ave (4 peaks):				282.4 RPD = 33
Corrected Ave (3 peaks):					210.4	Corrected Ave (3 peaks):				264.3 RPD = 23
Aroclor-1268	1	12.258	-0.005	112754	68.2	1	12.450	0.001	75332	73.4
Aroclor-1268	2	12.333	-0.002	136411	84.3	2	12.515	-0.002	206875	196.6
Aroclor-1268	3	12.739	0.023	60471	45.6	3	12.907	-0.003	3427	8.8
Aroclor-1268	4	13.502	-0.004	38114	9.4	4	13.722	-0.004	24093	8.6
Total Col1Ave (4 peaks):					51.9	Total Col2Ave (4 peaks):				71.8 RPD = 32

Corrected Ave (3 peaks): 41.1 Corrected Ave (3 peaks): 30.3 RPD = 30

Total PCB Area Col1 (5.936 - 13.808) = 5088746 Col1 Total PCB = 0.9 ppm*

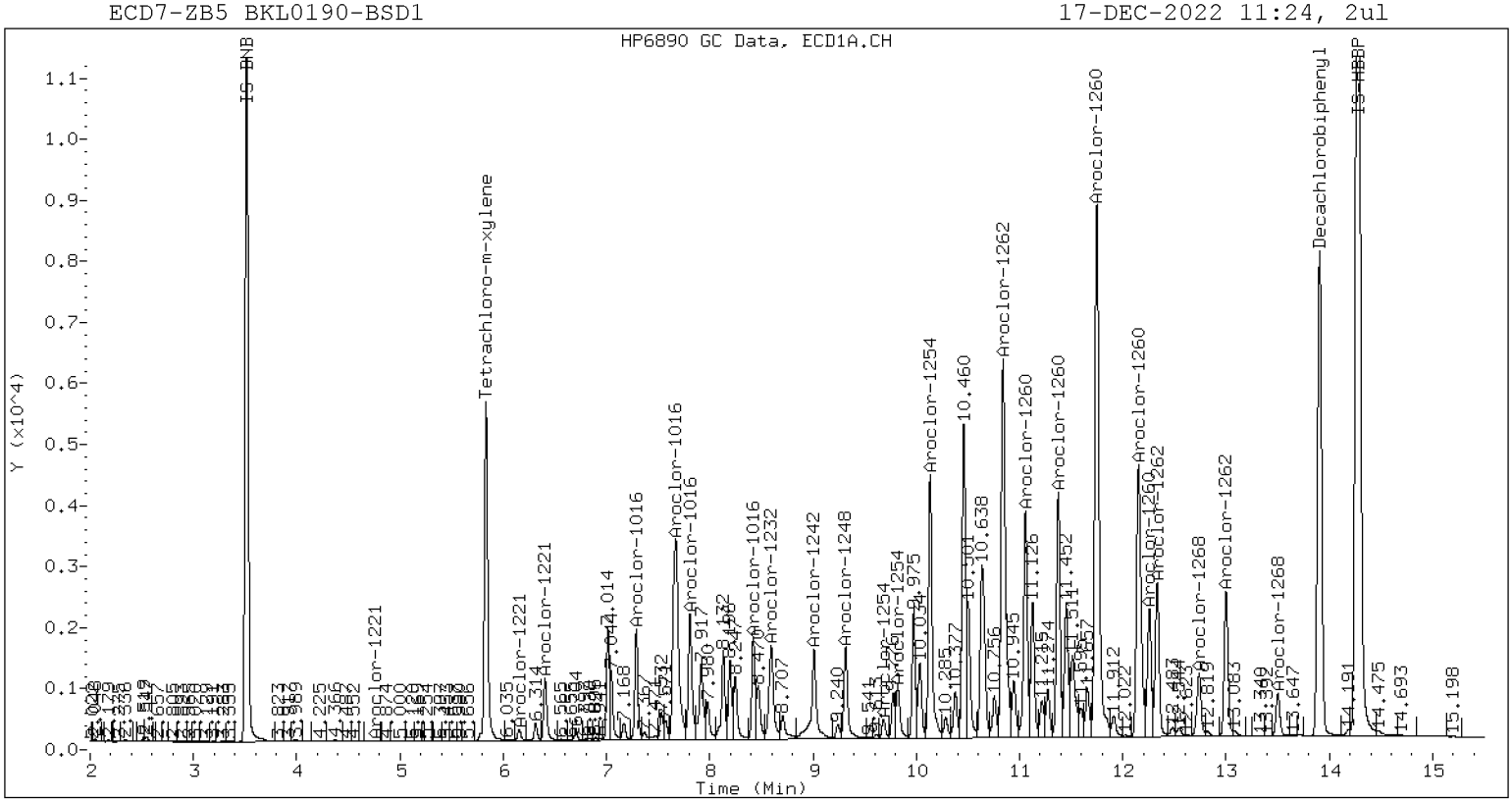
Total PCB Area Col2 (5.936 - 13.808) = 2782595 Col2 Total PCB = 1.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

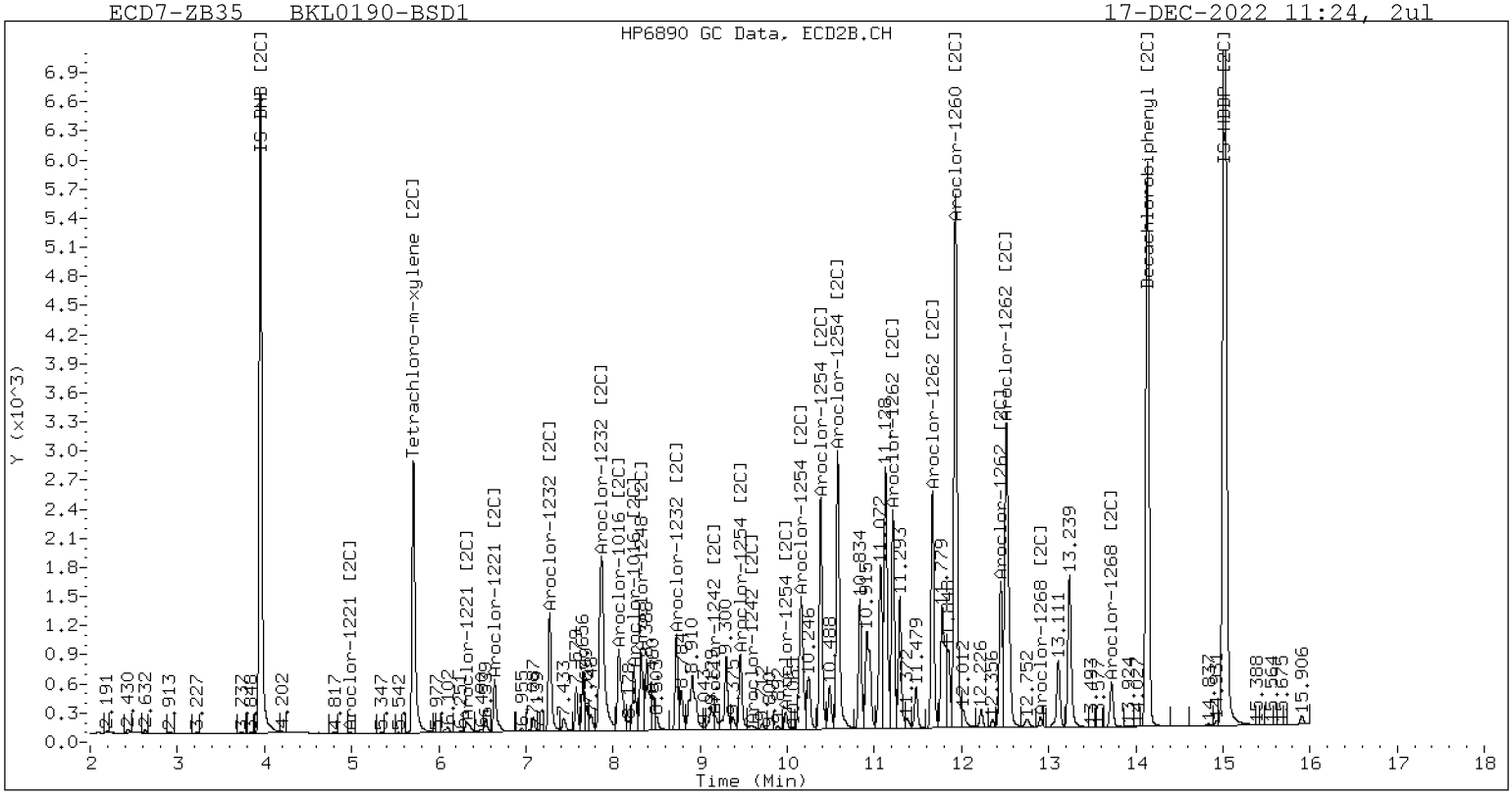
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0190-BSD1 17-DEC-2022 11:24, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0190-BSD1 17-DEC-2022 11:24, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

LCS / LCS DUPLICATE RECOVERY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/27/22 05:57
Batch:	BKL0548	Laboratory ID:	BKL0548-BS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS
Initial/Final:	12.5 g / 2.5 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Aroclor 1016	101	91.0		90.3	56 - 120
Aroclor 1260 [2C]	101	105		104	58 - 120

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS	
						RPD	REC.
Aroclor 1016	101	93.6		92.8	2.79	30	56 - 120
Aroclor 1260 [2C]	101	106		106	1.70	30	58 - 120

* Indicates values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221226.b/12262241ECD7.D
Data file 2: /221226.b/221226.b/12262241ECD7.D
Method: \\target\share\chem4\ecd7.i\221226.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0548-BS1
Client ID:
Injection Date: 27-DEC-2022 05:57
Report Date: 12/29/2022 12:30
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	0.000	270375	5.707	-0.000	162607	36.8	35.8	2.7	Tetrachloro-m-xylene
13.902	0.001	417658	14.126	-0.001	312790	43.9	46.5	5.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	518549	15.8
Hexabromobiphenyl	798898	1036780	29.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	331333	33.0
Hexabromobiphenyl	362541	473925	30.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.286	-0.001	78620	454.5	1	7.268	-0.001	72620	428.7
Aroclor-1016	2	7.667	-0.008	259392	464.5	2	7.863	-0.006	163793	448.3
Aroclor-1016	3	7.803	-0.005	106544	421.0	3	8.062	-0.005	65579	418.0
Aroclor-1016	4	8.417	-0.004	77482	480.3	4	8.233	-0.006	40512	491.0
Total Col1Ave (4 peaks):					455.1	Total Col2Ave (4 peaks):				446.5 RPD = 2
Corrected Ave (3 peaks):					446.7	Corrected Ave (3 peaks):				431.6 RPD = 3
Aroclor-1221	1	4.758	-0.002	600	14.0	1	---			0.0
Aroclor-1221	2	6.151	-0.007	10121	134.0	2	6.316	-0.005	7474	140.2
Aroclor-1221	3	6.402	-0.007	51759	297.1	3	6.638	-0.007	32133	358.3
Total Col1Ave (3 peaks):					148.4	Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	4.758	-0.003	600	23.3	1	---			0.0
Aroclor-1232	2	6.151	-0.008	10121	185.7	2	7.268	-0.008	72620	882.6
Aroclor-1232	3	7.667	-0.017	259392	1059.9	3	7.863	-0.014	163793	1018.3
Aroclor-1232	4	8.590	-0.016	100463	967.6	4	8.723	-0.011	47432	1087.6
Total Col1Ave (4 peaks):					559.1	Total Col2Ave (3 peaks):				996.1 RPD = 56*
Corrected Ave (3 peaks):					392.2	Corrected Ave: < 3 Peaks				
Aroclor-1242	1	7.286	-0.001	78620	534.9	1	7.268	-0.002	72620	517.9
Aroclor-1242	2	7.667	-0.008	259392	555.8	2	7.863	-0.006	163793	550.2
Aroclor-1242	3	8.417	-0.004	77482	577.1	3	9.161	-0.006	8963	93.3
Aroclor-1242	4	9.005	-0.013	90377	324.2	4	9.586	-0.002	5253	45.5
Total Col1Ave (4 peaks):					498.0	Total Col2Ave (4 peaks):				301.7 RPD = 49*
Corrected Ave (3 peaks):					471.6	Corrected Ave (3 peaks):				218.9 RPD = 73*
Aroclor-1248	1	8.417	-0.004	77482	347.5	1	8.317	-0.003	48462	358.0
Aroclor-1248	2	8.590	-0.006	100463	352.9	2	8.723	-0.002	47432	333.2
Aroclor-1248	3	9.005	-0.011	90377	176.5	3	9.161	-0.008	8963	51.8
Aroclor-1248	4	9.309	0.001	79431	316.6	4	9.586	-0.004	5253	25.8
Total Col1Ave (4 peaks):					298.4	Total Col2Ave (4 peaks):				192.2 RPD = 43*
Corrected Ave (3 peaks):					280.2	Corrected Ave (3 peaks):				136.9 RPD = 69*
Aroclor-1254	1	9.309	-0.002	79431	174.0	1	9.455	-0.003	41480	194.2
Aroclor-1254	2	---			0.0	2	9.974	-0.002	9194	53.5
Aroclor-1254	3	9.676	-0.005	14142	49.0	3	10.151	0.025	95499	258.7
Aroclor-1254	4	9.813	-0.002	46263	82.3	4	10.376	0.002	123545	323.1
Aroclor-1254	5	10.128	-0.004	218673	567.5	5	10.571	-0.001	164421	891.6
Total Col1Ave (4 peaks):					218.2	Total Col2Ave (5 peaks):				344.2 RPD = 45*
Corrected Ave (3 peaks):					101.8	Corrected Ave (4 peaks):				207.4 RPD = 68*
Aroclor-1260	1	11.052	-0.003	184121	487.9	1	11.658	-0.003	129401	517.3
Aroclor-1260	2	11.368	-0.003	195408	500.6	2	11.921	-0.002	318734	507.7
Aroclor-1260	3	11.741	-0.003	510416	497.7	3	12.441	-0.001	90368	540.6
Aroclor-1260	4	12.144	-0.004	273398	523.5	4	12.505	-0.002	220018	525.8
Aroclor-1260	5	12.251	-0.003	108428	507.1	NS	---			----
Total Col1Ave (5 peaks):					503.4	Total Col2Ave (4 peaks):				522.8 RPD = 4
Corrected Ave (4 peaks):					498.3	Corrected Ave (3 peaks):				516.9 RPD = 4
Aroclor-1262	1	10.832	-0.016	367118	1058.9	1	11.205	-0.012	117847	327.0
Aroclor-1262	2	12.251	-0.011	108428	201.2	2	11.658	-0.012	129401	414.6
Aroclor-1262	3	12.326	-0.010	131370	228.2	3	12.441	-0.010	90368	262.5
Aroclor-1262	4	12.994	-0.011	121516	263.0	4	12.505	-0.014	220018	408.0
Total Col1Ave (4 peaks):					437.8	Total Col2Ave (4 peaks):				353.0 RPD = 21
Corrected Ave (3 peaks):					230.8	Corrected Ave (3 peaks):				332.5 RPD = 36
Aroclor-1268	1	12.251	-0.011	108428	74.8	1	12.441	-0.008	90368	101.0
Aroclor-1268	2	12.326	-0.009	131370	92.6	2	12.505	-0.012	220018	239.9
Aroclor-1268	3	12.730	0.014	58399	50.2	3	12.898	-0.012	4413	13.0
Aroclor-1268	4	13.496	-0.009	35027	9.9	4	13.714	-0.012	24874	10.2
Total Col1Ave (4 peaks):					56.9	Total Col2Ave (4 peaks):				91.0 RPD = 46*
Corrected Ave (3 peaks):					44.9	Corrected Ave (3 peaks):				41.4 RPD = 8

Total PCB Area Col1 (5.931 - 13.801) = 5081094 Col1 Total PCB = 1.0 ppm*

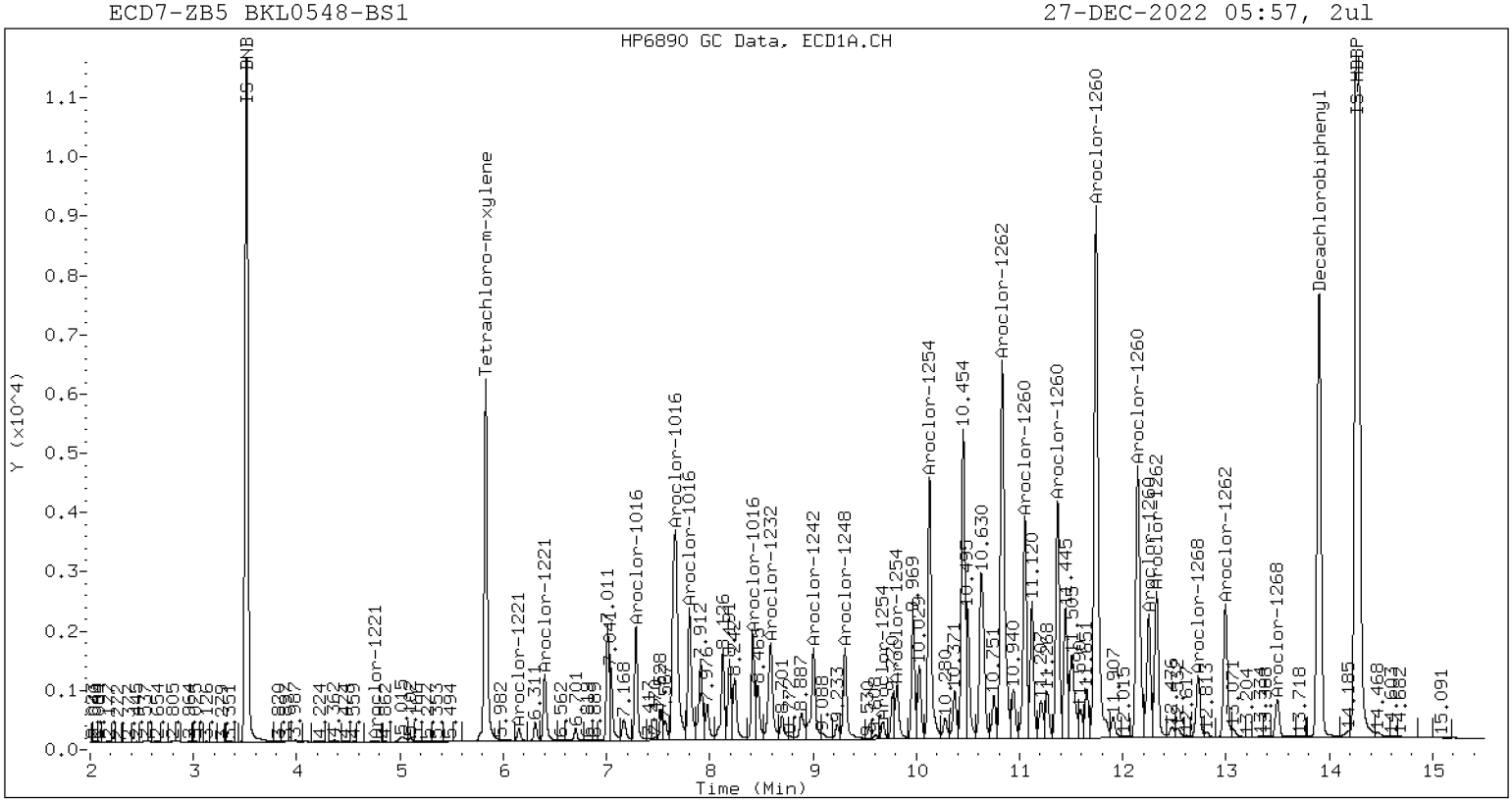
Total PCB Area Col2 (5.807 - 14.027) = 3035568 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

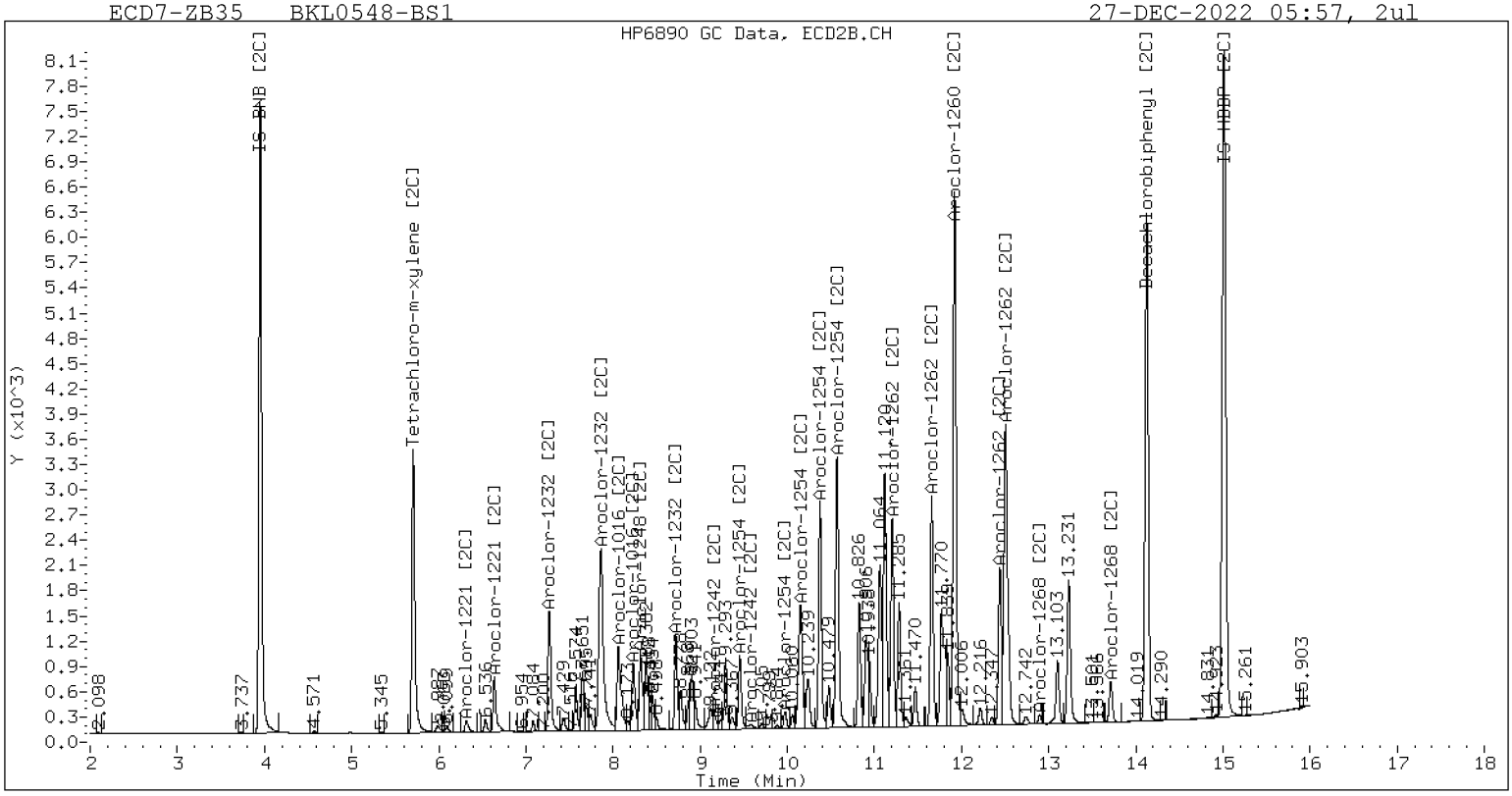
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0548-BS1 27-DEC-2022 05:57, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0548-BS1 27-DEC-2022 05:57, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221226.b/12262242ECD7.D
Data file 2: /221226.b/221226.b/12262242ECD7.D
Method: \\target\share\chem4\ecd7.i\221226.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0548-BSD1
Client ID:
Injection Date: 27-DEC-2022 06:18
Report Date: 12/29/2022 12:30
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.829	-0.002	262600	5.705	-0.002	158610	35.5	34.4	3.0	Tetrachloro-m-xylene
13.902	0.001	409351	14.128	0.001	309499	41.8	44.8	6.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	522298	16.7
Hexabromobiphenyl	798898	1068919	33.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	336061	34.9
Hexabromobiphenyl	362541	486888	34.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.284	-0.003	81800	469.5	1	7.268	-0.002	75118	437.2
Aroclor-1016	2	7.666	-0.009	269672	479.4	2	7.862	-0.007	168766	455.4
Aroclor-1016	3	7.802	-0.006	110105	432.0	3	8.061	-0.005	67935	426.9
Aroclor-1016	4	8.416	-0.004	79776	490.9	4	8.232	-0.007	40972	489.6
Total Col1Ave (4 peaks):					468.0	Total Col2Ave (4 peaks):				452.3 RPD = 3
Corrected Ave (3 peaks):					460.3	Corrected Ave (3 peaks):				439.8 RPD = 5
Aroclor-1221	1	4.754	-0.006	506	11.7	1	4.978	-0.009	363	12.8
Aroclor-1221	2	6.150	-0.009	8605	113.1	2	6.315	-0.007	8544	158.1
Aroclor-1221	3	6.400	-0.009	51571	293.9	3	6.637	-0.008	34025	374.0
Total Col1Ave (3 peaks):					139.6	Total Col2Ave (3 peaks):				181.6 RPD = 26
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.754	-0.007	506	19.5	1	4.978	-0.011	363	22.2
Aroclor-1232	2	6.150	-0.010	8605	156.8	2	7.268	-0.009	75118	900.1
Aroclor-1232	3	7.666	-0.018	269672	1094.0	3	7.862	-0.014	168766	1034.4
Aroclor-1232	4	8.590	-0.016	103031	985.2	4	8.722	-0.012	51173	1156.8
Total Col1Ave (4 peaks):					563.9	Total Col2Ave (4 peaks):				778.4 RPD = 32
Corrected Ave (3 peaks):					387.1	Corrected Ave (3 peaks):				652.2 RPD = 51*
Aroclor-1242	1	7.284	-0.003	81800	552.5	1	7.268	-0.002	75118	528.1
Aroclor-1242	2	7.666	-0.009	269672	573.7	2	7.862	-0.007	168766	559.0
Aroclor-1242	3	8.416	-0.004	79776	589.9	3	9.163	-0.004	9102	93.4
Aroclor-1242	4	9.004	-0.014	92999	331.2	4	9.586	-0.001	4201	35.9
Total Col1Ave (4 peaks):					511.8	Total Col2Ave (4 peaks):				304.1 RPD = 51*
Corrected Ave (3 peaks):					485.8	Corrected Ave (3 peaks):				219.2 RPD = 76*
Aroclor-1248	1	8.416	-0.004	79776	355.2	1	8.316	-0.004	49698	362.0
Aroclor-1248	2	8.590	-0.006	103031	359.3	2	8.722	-0.003	51173	354.4
Aroclor-1248	3	9.004	-0.011	92999	180.3	3	9.163	-0.006	9102	51.8
Aroclor-1248	4	9.309	0.001	84238	333.4	4	9.586	-0.003	4201	20.4
Total Col1Ave (4 peaks):					307.1	Total Col2Ave (4 peaks):				197.1 RPD = 44*
Corrected Ave (3 peaks):					289.6	Corrected Ave (3 peaks):				142.2 RPD = 68*
Aroclor-1254	1	9.309	-0.002	84238	183.2	1	9.455	-0.003	43438	200.5
Aroclor-1254	2	---			0.0	2	9.975	-0.001	9613	55.2
Aroclor-1254	3	9.676	-0.005	14609	50.3	3	10.152	0.026	99253	265.1
Aroclor-1254	4	9.814	-0.002	48798	86.2	4	10.376	0.002	128272	330.8
Aroclor-1254	5	10.128	-0.004	227653	586.6	5	10.571	-0.001	171442	916.6
Total Col1Ave (4 peaks):					226.6	Total Col2Ave (5 peaks):				353.6 RPD = 44*
Corrected Ave (3 peaks):					106.6	Corrected Ave (4 peaks):				212.9 RPD = 67*
Aroclor-1260	1	11.052	-0.002	191360	491.8	1	11.660	-0.002	135137	525.8
Aroclor-1260	2	11.368	-0.003	203422	505.5	2	11.921	-0.002	331989	514.8
Aroclor-1260	3	11.742	-0.002	532604	503.7	3	12.442	-0.000	94484	550.2
Aroclor-1260	4	12.144	-0.004	284513	528.4	4	12.506	-0.001	230608	536.4
Aroclor-1260	5	12.252	-0.002	113724	515.9	NS	---			----
Total Col1Ave (5 peaks):					509.1	Total Col2Ave (4 peaks):				531.8 RPD = 4
Corrected Ave (4 peaks):					504.2	Corrected Ave (3 peaks):				525.7 RPD = 4
Aroclor-1262	1	10.832	-0.016	381457	1067.1	1	11.206	-0.012	122640	331.3
Aroclor-1262	2	12.252	-0.010	113724	204.6	2	11.660	-0.010	135137	421.5
Aroclor-1262	3	12.326	-0.010	137391	231.5	3	12.442	-0.010	94484	267.1
Aroclor-1262	4	12.995	-0.010	126900	266.4	4	12.506	-0.013	230608	416.2
Total Col1Ave (4 peaks):					442.4	Total Col2Ave (4 peaks):				359.0 RPD = 21
Corrected Ave (3 peaks):					234.2	Corrected Ave (3 peaks):				338.2 RPD = 36
Aroclor-1268	1	12.252	-0.010	113724	76.0	1	12.442	-0.008	94484	102.8
Aroclor-1268	2	12.326	-0.009	137391	93.9	2	12.506	-0.011	230608	244.7
Aroclor-1268	3	12.732	0.016	60843	50.7	3	12.900	-0.010	4554	13.0
Aroclor-1268	4	13.496	-0.009	36518	10.0	4	13.715	-0.011	25705	10.2
Total Col1Ave (4 peaks):					57.7	Total Col2Ave (4 peaks):				92.7 RPD = 47*

Corrected Ave (3 peaks): 45.6 Corrected Ave (3 peaks): 42.0 RPD = 8

Total PCB Area Col1 (5.931 - 13.801) = 5271120 Col1 Total PCB = 1.1 ppm*

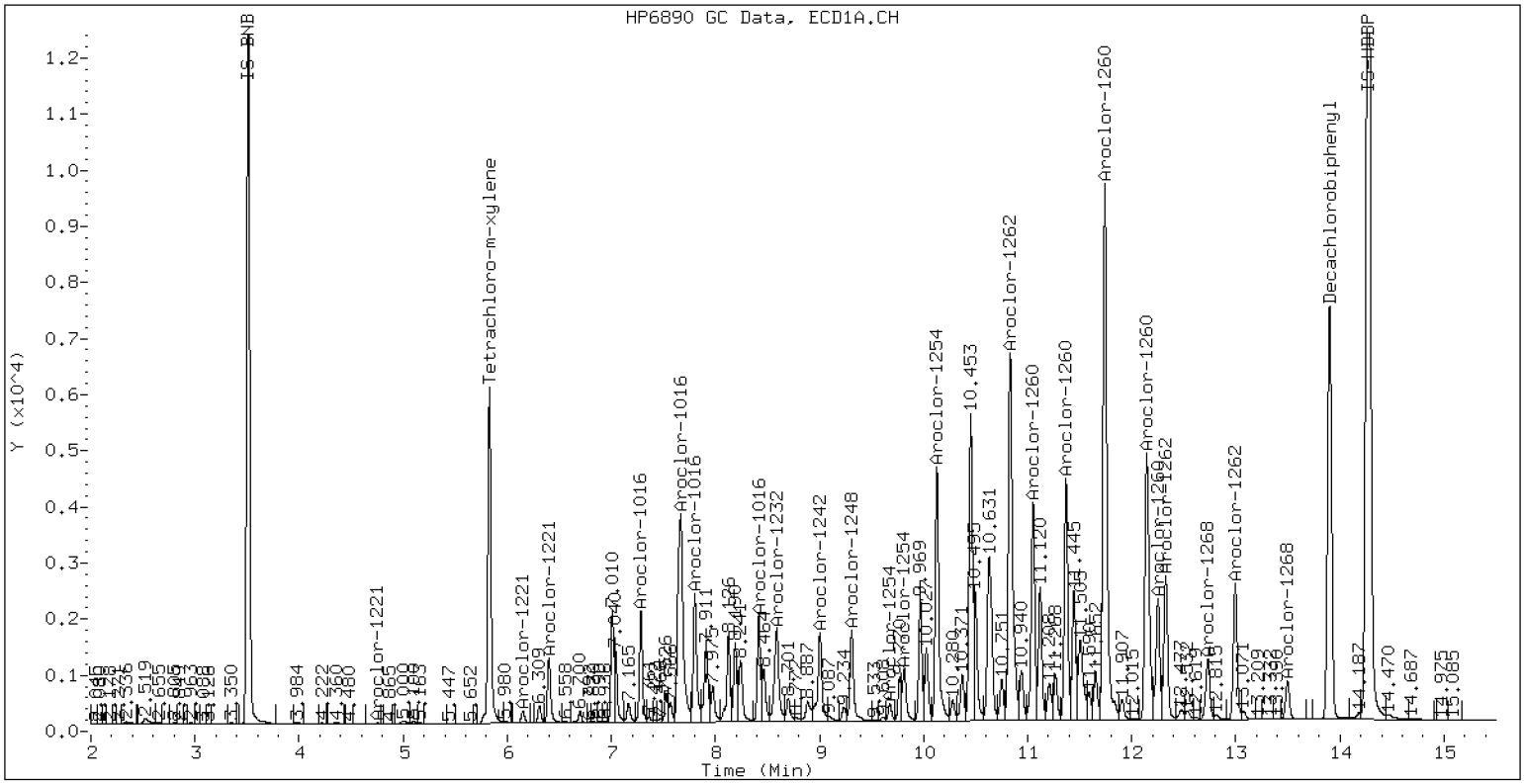
Total PCB Area Col2 (5.807 - 14.027) = 3159091 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

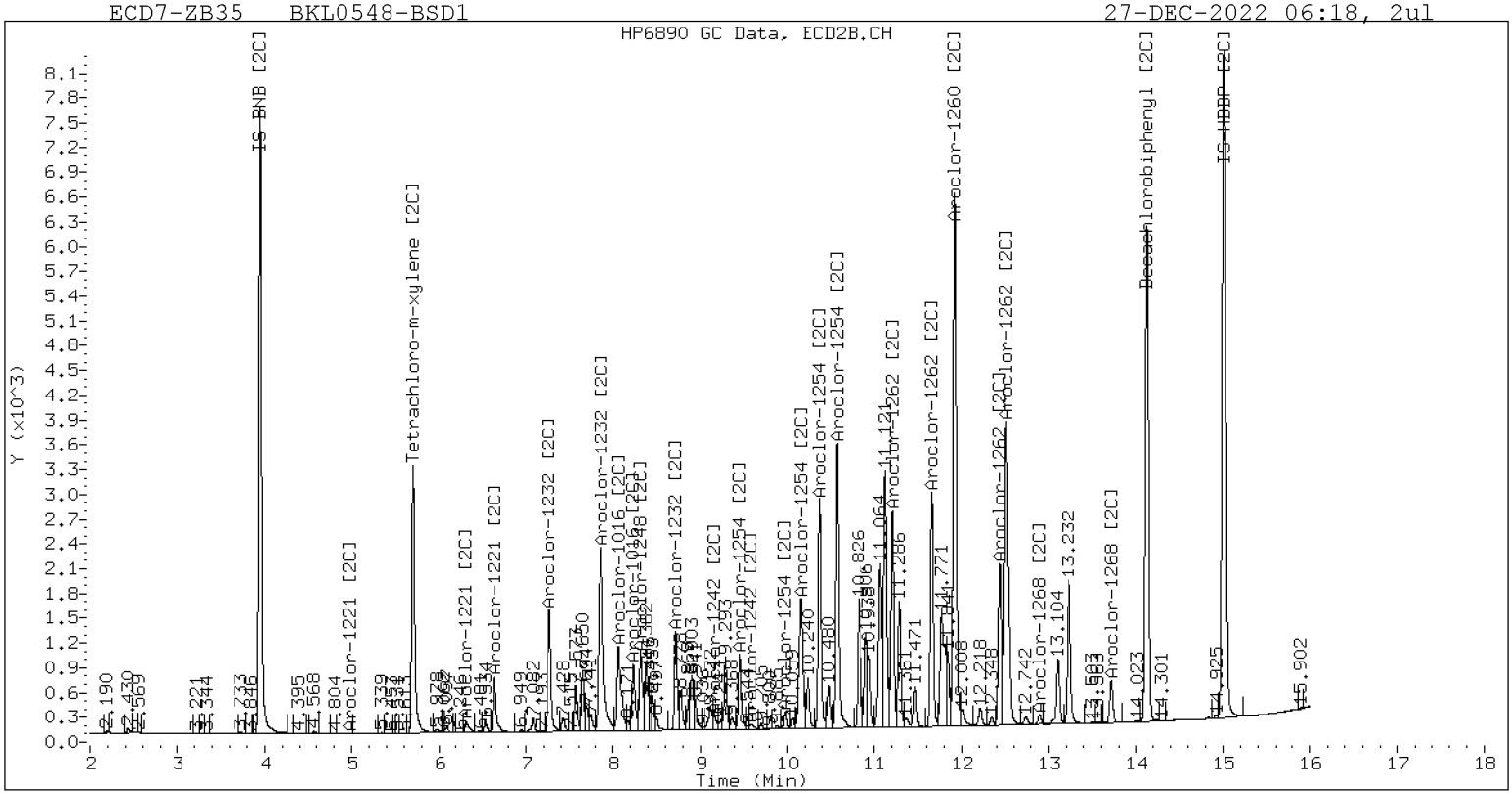
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0548-BSD1 27-DEC-2022 06:18, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0548-BSD1 27-DEC-2022 06:18, 2ul



ZB-35 Manual Integration: NO

MS / MS DUPLICATE RECOVERY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/17/22 12:07
Batch:	BKL0190	Laboratory ID:	BKL0190-MS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike
Initial/Final:	13.25 g / 2.5 mL	Source Sample:	LDW22-SS822

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	Q	MS CONCENTRATION (ug/kg dry)	Q	MS % REC. #	QC LIMITS REC.
Aroclor 1016	100	ND	U	86.8		86.8	56 - 120
Aroclor 1260	100	ND	U	90.2		90.2	58 - 120

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

MS / MS DUPLICATE RECOVERY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/17/22 12:28
Batch:	BKL0190	Laboratory ID:	BKL0190-MSD1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike Dup
Initial/Final:	13.25 g / 2.5 mL	Source Sample:	LDW22-SS822

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	Q	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor 1016	100	95.6		95.2	9.70	30	56 - 120
Aroclor 1260	100	93.5		93.5	3.55	30	58 - 120

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172209ECD7.D
Data file 2: /221217.b/221217.b/12172209ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0190-MS1
Client ID:
Injection Date: 17-DEC-2022 12:07
Report Date: 12/20/2022 15:07
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.833	-0.003	240632	5.710	-0.001	134184	33.3	33.7	1.1	Tetrachloro-m-xylene
13.901	-0.006	329181	14.131	-0.003	246252	41.0	37.0	10.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	509798	13.9
Hexabromobiphenyl	798898	875236	9.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	290749	16.7
Hexabromobiphenyl	362541	468734	29.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.288	-0.007	87153	512.5	1	7.273	-0.001	61233	411.9
Aroclor-1016	2	7.667	-0.017	235785	429.5	2	7.865	-0.007	129905	405.2
Aroclor-1016	3	7.805	-0.013	92822	373.1	3	8.066	-0.007	51295	372.5
Aroclor-1016	4	8.419	-0.010	67741	427.1	4	8.236	-0.008	30139	416.3
Total Col1Ave (4 peaks):					435.5	Total Col2Ave (4 peaks):				401.5 RPD = 8
Corrected Ave (3 peaks):					409.9	Corrected Ave (3 peaks):				396.5 RPD = 3
Aroclor-1221	1	4.758	-0.002	779	18.5	1	4.983	-0.004	435	17.7
Aroclor-1221	2	6.153	-0.005	8956	120.6	2	6.322	0.001	4284	91.6
Aroclor-1221	3	6.404	-0.005	44205	258.1	3	6.642	-0.004	26895	341.7
Total Col1Ave (3 peaks):					132.4	Total Col2Ave (3 peaks):				150.4 RPD = 13
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.758	-0.003	779	30.7	1	4.983	-0.007	435	30.8
Aroclor-1232	2	6.153	-0.006	8956	167.2	2	7.273	-0.004	61233	848.1
Aroclor-1232	3	7.667	-0.016	235785	980.0	3	7.865	-0.011	129905	920.3
Aroclor-1232	4	8.591	-0.015	78954	773.5	4	8.726	-0.007	38000	992.9
Total Col1Ave (4 peaks):					487.8	Total Col2Ave (4 peaks):				698.0 RPD = 35
Corrected Ave (3 peaks):					323.8	Corrected Ave (3 peaks):				599.7 RPD = 60*
Aroclor-1242	1	7.288	-0.007	87153	603.1	1	7.273	-0.001	61233	497.6
Aroclor-1242	2	7.667	-0.018	235785	513.9	2	7.865	-0.007	129905	497.3
Aroclor-1242	3	8.419	-0.011	67741	513.2	3	9.164	-0.011	7390	87.7
Aroclor-1242	4	9.007	-0.024	60804	221.8	4	9.588	-0.010	3840	37.9
Total Col1Ave (4 peaks):					463.0	Total Col2Ave (4 peaks):				280.1 RPD = 49*
Corrected Ave (3 peaks):					416.3	Corrected Ave (3 peaks):				207.6 RPD = 67*
Aroclor-1248	1	8.419	-0.008	67741	309.0	1	8.321	-0.004	37232	313.5
Aroclor-1248	2	8.591	-0.013	78954	282.1	2	8.726	-0.004	38000	304.2
Aroclor-1248	3	9.007	-0.015	60804	120.8	3	9.164	-0.012	7390	48.6
Aroclor-1248	4	9.310	-0.001	62234	252.3	4	9.588	-0.010	3840	21.5
Total Col1Ave (4 peaks):					241.1	Total Col2Ave (4 peaks):				171.9 RPD = 33
Corrected Ave (3 peaks):					218.4	Corrected Ave (3 peaks):				124.8 RPD = 55*
Aroclor-1254	1	9.310	-0.011	62234	138.6	1	9.459	-0.005	33106	176.6
Aroclor-1254	2	9.382	-0.020	4408	25.3	2	9.978	-0.003	7754	51.4
Aroclor-1254	3	9.677	-0.017	14983	52.8	3	10.155	0.020	65413	201.9
Aroclor-1254	4	9.812	-0.019	41722	75.5	4	10.381	-0.001	98115	292.4
Aroclor-1254	5	10.131	-0.059	177251	467.9	5	10.574	-0.005	123608	763.9
Total Col1Ave (5 peaks):					152.0	Total Col2Ave (5 peaks):				297.3 RPD = 65*
Corrected Ave (4 peaks):					73.1	Corrected Ave (4 peaks):				180.6 RPD = 85*
Aroclor-1260	1	11.054	-0.009	143927	451.8	1	11.663	-0.004	97555	394.3
Aroclor-1260	2	11.370	-0.008	150909	458.0	2	11.925	-0.005	237670	382.8
Aroclor-1260	3	11.740	-0.012	380844	439.9	3	12.444	-0.005	68986	417.3
Aroclor-1260	4	12.142	-0.017	206151	467.6	4	12.508	-0.005	161550	390.3
Aroclor-1260	5	12.252	-0.009	80732	447.3	NS	---			----
Total Col1Ave (5 peaks):					452.9	Total Col2Ave (4 peaks):				396.2 RPD = 13
Corrected Ave (4 peaks):					449.2	Corrected Ave (3 peaks):				389.1 RPD = 14
Aroclor-1262	1	10.831	-0.017	294398	1005.8	1	11.209	-0.008	87815	246.4
Aroclor-1262	2	12.252	-0.010	80732	177.4	2	11.663	-0.007	97555	316.0
Aroclor-1262	3	12.325	-0.011	94861	195.2	3	12.444	-0.008	68986	202.6
Aroclor-1262	4	12.993	-0.012	88786	227.6	4	12.508	-0.011	161550	302.9
Total Col1Ave (4 peaks):					401.5	Total Col2Ave (4 peaks):				267.0 RPD = 40*
Corrected Ave (3 peaks):					200.1	Corrected Ave (3 peaks):				250.6 RPD = 22
Aroclor-1268	1	12.252	-0.010	80732	65.9	1	12.444	-0.006	68986	78.0
Aroclor-1268	2	12.325	-0.010	94861	79.2	2	12.508	-0.009	161550	178.1
Aroclor-1268	3	12.730	0.014	43138	43.9	3	12.904	-0.005	2741	8.1
Aroclor-1268	4	13.495	-0.010	24806	8.3	4	13.718	-0.008	18707	7.7
Total Col1Ave (4 peaks):					49.3	Total Col2Ave (4 peaks):				68.0 RPD = 32

Corrected Ave (3 peaks): 39.4 Corrected Ave (3 peaks): 31.3 RPD = 23

Total PCB Area Col1 (5.936 - 13.808) = 4183418 Col1 Total PCB = 0.7 ppm*

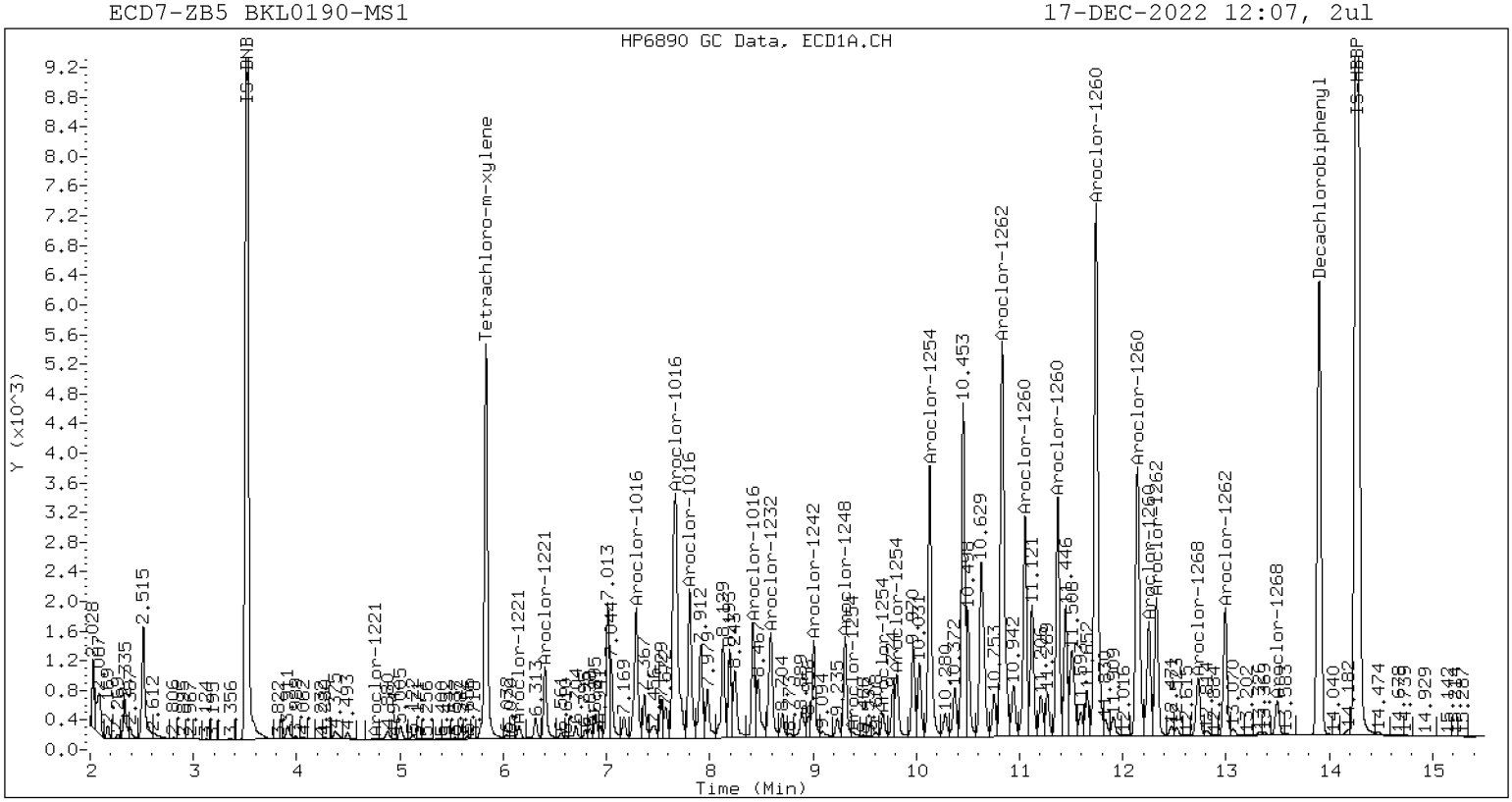
Total PCB Area Col2 (5.936 - 13.808) = 2378222 Col2 Total PCB = 1.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

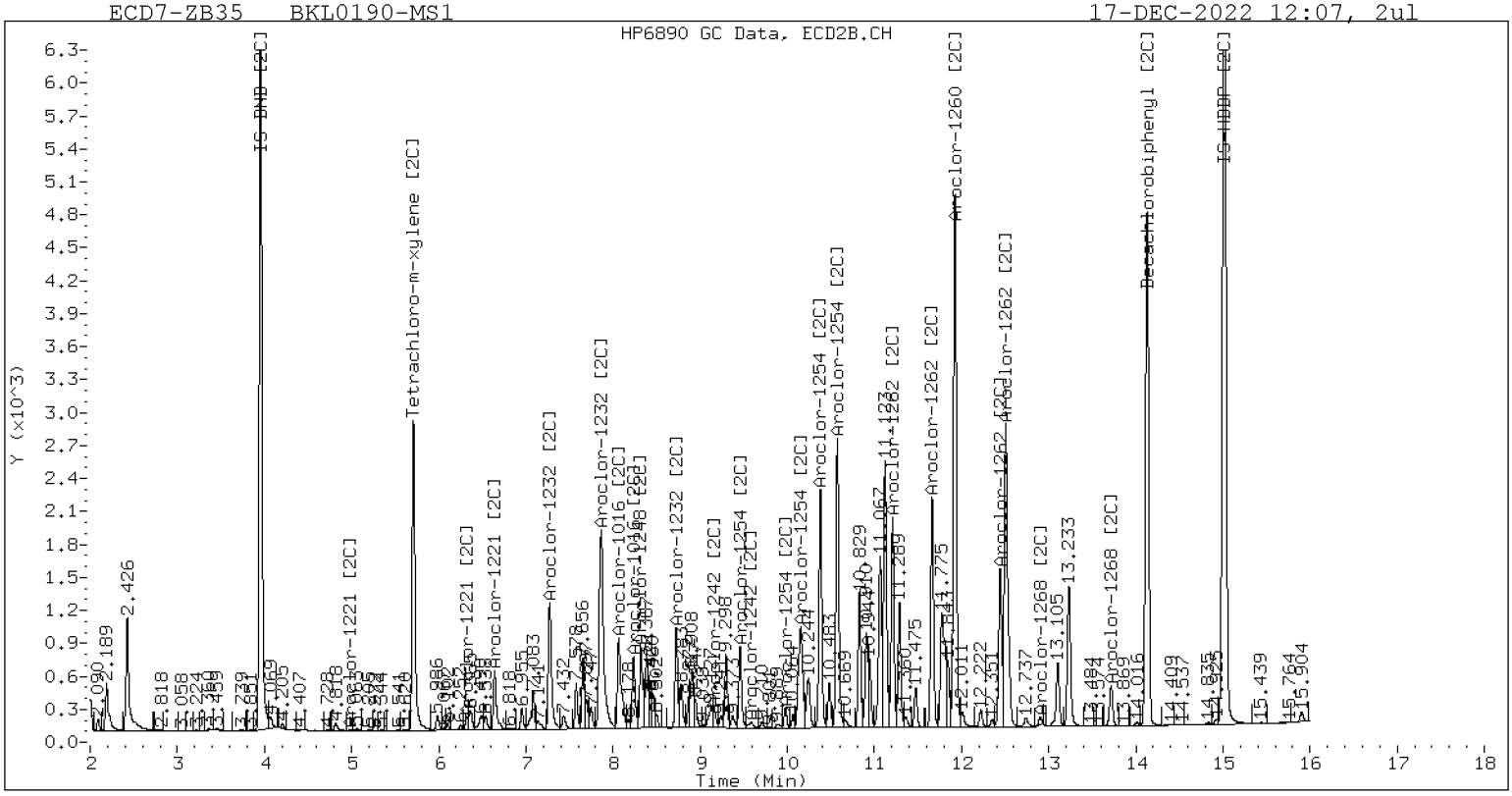
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0190-MS1 17-DEC-2022 12:07, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0190-MS1 17-DEC-2022 12:07, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172210ECD7.D
Data file 2: /221217.b/221217.b/12172210ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0190-MSD1
Client ID:
Injection Date: 17-DEC-2022 12:28
Report Date: 12/20/2022 15:07
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	-0.005	258446	5.709	-0.002	141407	34.7	34.8	0.3	Tetrachloro-m-xylene
13.902	-0.006	364967	14.131	-0.003	267933	44.0	39.2	11.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	525565	17.4
Hexabromobiphenyl	798898	904869	13.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	296278	18.9
Hexabromobiphenyl	362541	481947	32.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.285	-0.009	112202	640.0	1	7.274	0.000	88518	584.3
Aroclor-1016	2	7.667	-0.018	233684	412.9	2	7.865	-0.008	157846	483.1
Aroclor-1016	3	7.805	-0.012	111977	436.6	3	8.064	-0.008	60397	430.5
Aroclor-1016	4	8.419	-0.011	70348	430.2	4	8.235	-0.008	34356	465.7
Total Col1Ave (4 peaks):					479.9	Total Col2Ave (4 peaks):				490.9 RPD = 2
Corrected Ave (3 peaks):					426.6	Corrected Ave (3 peaks):				459.8 RPD = 7
Aroclor-1221	1	4.758	-0.002	662	15.2	1	4.970	-0.017	2883	115.3
Aroclor-1221	2	6.152	-0.007	13279	173.5	2	6.366	0.045	58117	1219.5
Aroclor-1221	3	6.403	-0.006	48242	273.2	3	6.640	-0.005	34807	434.0
Total Col1Ave (3 peaks):					154.0	Total Col2Ave (3 peaks):				589.6 RPD = 117*
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.758	-0.003	662	25.3	1	4.970	-0.019	2883	200.1
Aroclor-1232	2	6.152	-0.008	13279	240.4	2	7.274	-0.003	88518	1203.1
Aroclor-1232	3	7.667	-0.017	233684	942.1	3	7.865	-0.012	157846	1097.4
Aroclor-1232	4	8.590	-0.016	86213	819.2	4	8.726	-0.008	41984	1076.5
Total Col1Ave (4 peaks):					506.8	Total Col2Ave (4 peaks):				894.3 RPD = 55*
Corrected Ave (3 peaks):					361.7	Corrected Ave (3 peaks):				791.3 RPD = 75*
Aroclor-1242	1	7.285	-0.009	112202	753.2	1	7.274	-0.000	88518	705.9
Aroclor-1242	2	7.667	-0.018	233684	494.1	2	7.865	-0.008	157846	593.0
Aroclor-1242	3	8.419	-0.011	70348	516.9	3	9.162	-0.013	8699	101.3
Aroclor-1242	4	9.007	-0.025	64999	230.0	4	9.585	-0.013	4599	44.6
Total Col1Ave (4 peaks):					498.6	Total Col2Ave (4 peaks):				361.2 RPD = 32
Corrected Ave (3 peaks):					413.7	Corrected Ave (3 peaks):				246.3 RPD = 51*
Aroclor-1248	1	8.419	-0.009	70348	311.3	1	8.320	-0.004	41034	339.0
Aroclor-1248	2	8.590	-0.014	86213	298.8	2	8.726	-0.004	41984	329.8
Aroclor-1248	3	9.007	-0.016	64999	125.2	3	9.162	-0.013	8699	56.2
Aroclor-1248	4	9.310	-0.001	67397	265.1	4	9.585	-0.013	4599	25.3
Total Col1Ave (4 peaks):					250.1	Total Col2Ave (4 peaks):				187.6 RPD = 29
Corrected Ave (3 peaks):					229.7	Corrected Ave (3 peaks):				137.1 RPD = 50*
Aroclor-1254	1	9.310	-0.011	67397	145.6	1	9.459	-0.005	35479	185.7
Aroclor-1254	2	9.380	-0.022	3757	20.9	2	9.977	-0.004	8527	55.5
Aroclor-1254	3	9.676	-0.019	15769	54.0	3	10.155	0.021	63682	192.9
Aroclor-1254	4	9.811	-0.020	44285	77.7	4	10.380	-0.002	103756	303.5
Aroclor-1254	5	10.130	-0.059	185019	473.8	5	10.574	-0.005	132370	802.8
Total Col1Ave (5 peaks):					154.4	Total Col2Ave (5 peaks):				308.1 RPD = 66*
Corrected Ave (4 peaks):					74.6	Corrected Ave (4 peaks):				184.4 RPD = 85*
Aroclor-1260	1	11.053	-0.009	152684	463.6	1	11.662	-0.005	104014	408.9
Aroclor-1260	2	11.369	-0.008	161932	475.3	2	11.924	-0.006	255356	400.0
Aroclor-1260	3	11.740	-0.012	409425	457.4	3	12.444	-0.005	73815	434.2
Aroclor-1260	4	12.143	-0.015	222985	489.2	4	12.508	-0.006	173802	408.4
Aroclor-1260	5	12.253	-0.009	86015	461.0	NS	---			----
Total Col1Ave (5 peaks):					469.3	Total Col2Ave (4 peaks):				412.9 RPD = 13
Corrected Ave (4 peaks):					464.3	Corrected Ave (3 peaks):				405.8 RPD = 13
Aroclor-1262	1	10.831	-0.018	314387	1039.0	1	11.209	-0.008	92479	252.4
Aroclor-1262	2	12.253	-0.010	86015	182.8	2	11.662	-0.008	104014	327.7
Aroclor-1262	3	12.326	-0.010	102257	203.5	3	12.444	-0.007	73815	210.8
Aroclor-1262	4	12.993	-0.012	97368	241.5	4	12.508	-0.012	173802	316.9
Total Col1Ave (4 peaks):					416.7	Total Col2Ave (4 peaks):				277.0 RPD = 40*
Corrected Ave (3 peaks):					209.3	Corrected Ave (3 peaks):				260.0 RPD = 22
Aroclor-1268	1	12.253	-0.009	86015	67.9	1	12.444	-0.005	73815	81.1
Aroclor-1268	2	12.326	-0.009	102257	82.6	2	12.508	-0.010	173802	186.3
Aroclor-1268	3	12.730	0.014	46459	45.8	3	12.904	-0.005	3156	9.1
Aroclor-1268	4	13.496	-0.009	28610	9.2	4	13.718	-0.009	20595	8.3
Total Col1Ave (4 peaks):					51.4	Total Col2Ave (4 peaks):				71.2 RPD = 32

Corrected Ave (3 peaks): 41.0 Corrected Ave (3 peaks): 32.8 RPD = 22

Total PCB Area Col1 (5.936 - 13.808) = 5127159 Col1 Total PCB = 0.8 ppm*

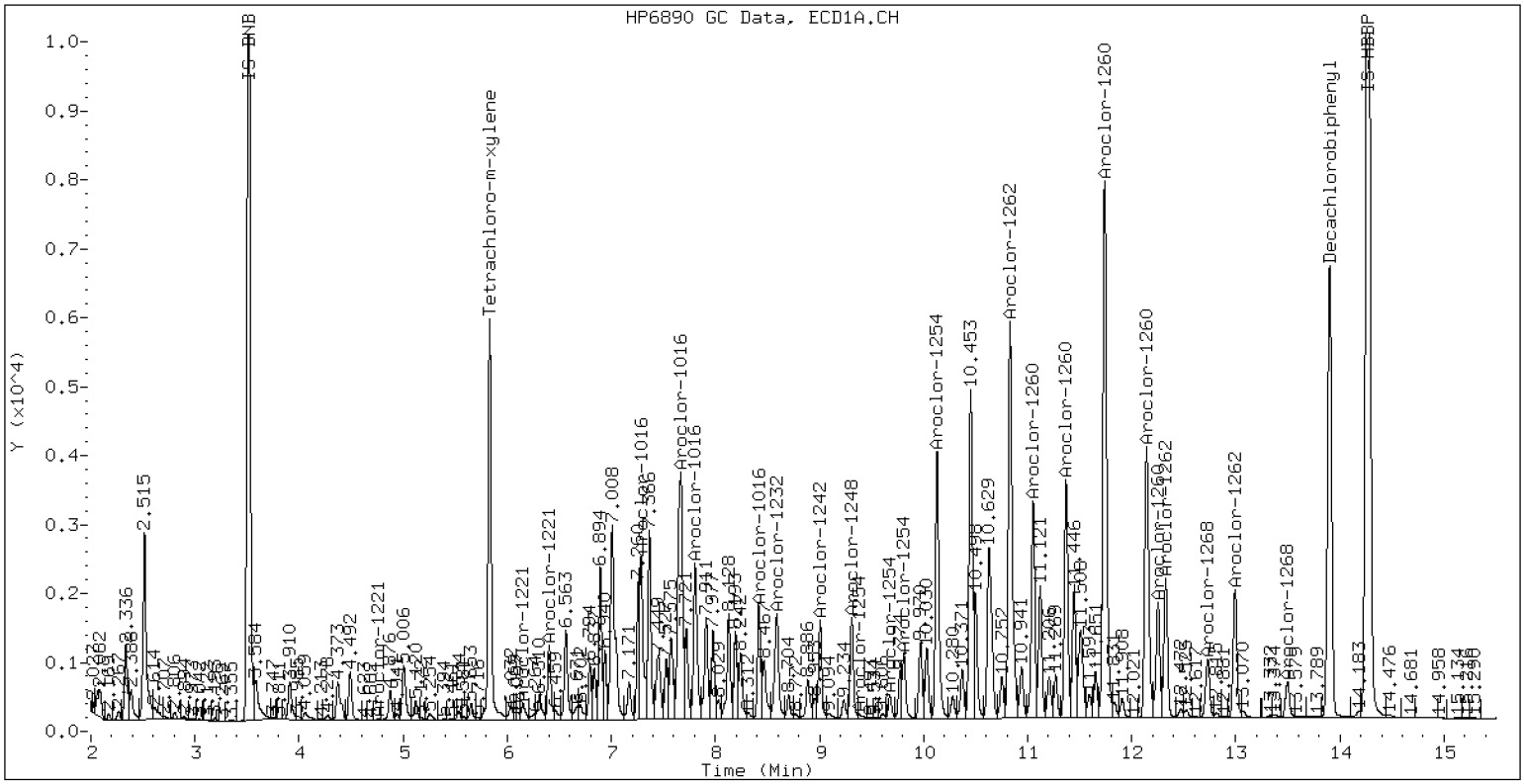
Total PCB Area Col2 (5.936 - 13.808) = 2884002 Col2 Total PCB = 1.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

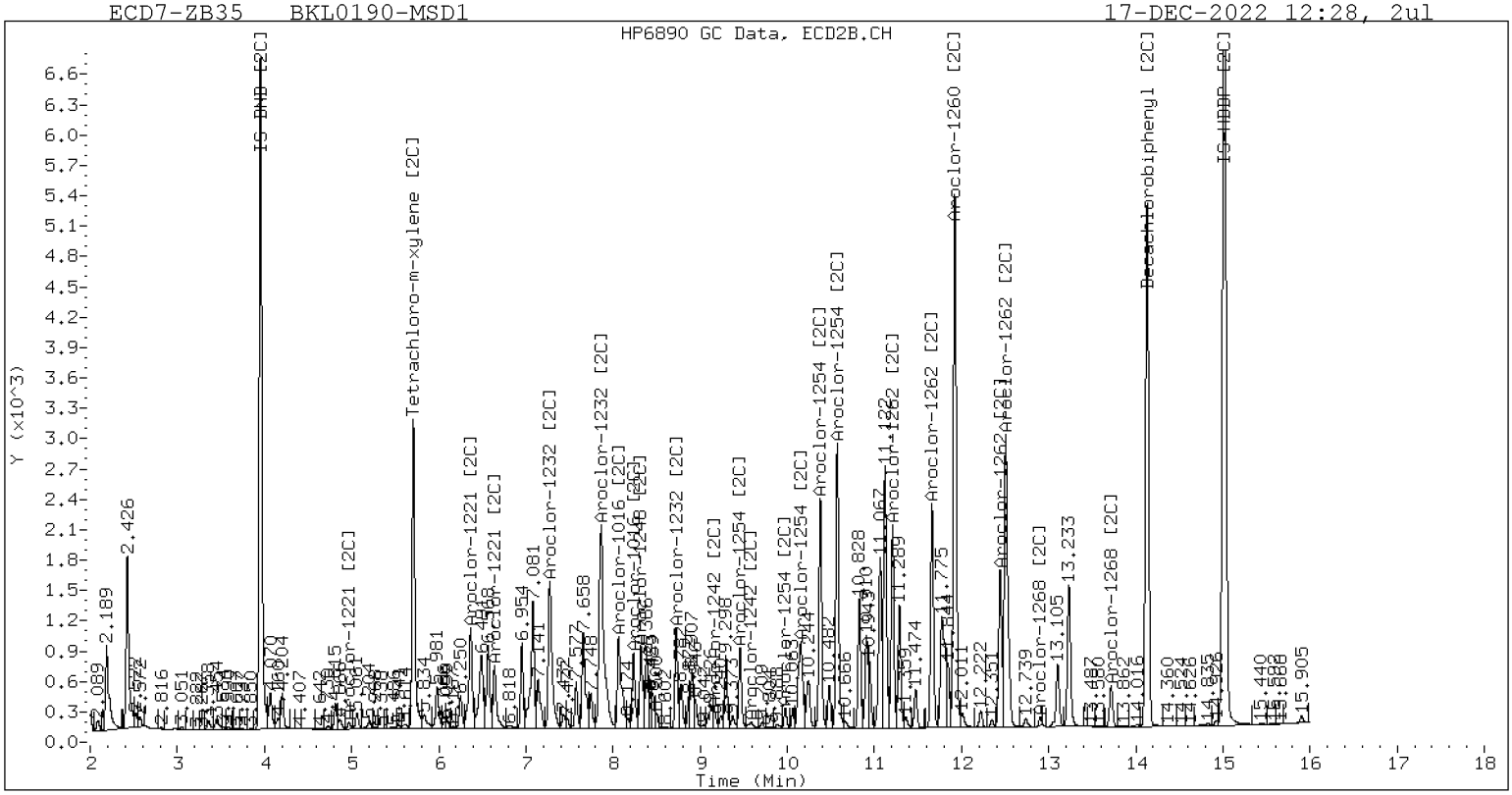
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0190-MSD1 17-DEC-2022 12:28, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0190-MSD1 17-DEC-2022 12:28, 2ul



ZB-35 Manual Integration: NO

MS / MS DUPLICATE RECOVERY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/27/22 07:22
Batch:	BKL0548	Laboratory ID:	BKL0548-MS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike
Initial/Final:	16.57 g / 2.5 mL	Source Sample:	LDW22-SS766

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	Q	MS CONCENTRATION (ug/kg dry)	Q	MS % REC. #	QC LIMITS REC.
Aroclor 1016	101	ND	U	87.6		86.7	56 - 120
Aroclor 1260 [2C]	101	23.0		111		87.0	58 - 120

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

MS / MS DUPLICATE RECOVERY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/27/22 07:43
Batch:	BKL0548	Laboratory ID:	BKL0548-MSD1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike Dup
Initial/Final:	16.57 g / 2.5 mL	Source Sample:	LDW22-SS766

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	Q	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor 1016	101	84.0		83.2	4.14	30	56 - 120
Aroclor 1260 [2C]	101	105		81.7	4.96	30	58 - 120

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221226.b/12262245ECD7.D
Data file 2: /221226.b/221226.b/12262245ECD7.D
Method: \\target\share\chem4\ecd7.i\221226.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0548-MS1
Client ID:
Injection Date: 27-DEC-2022 07:22
Report Date: 12/29/2022 12:30
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.829	-0.002	246916	5.706	-0.002	151623	34.5	34.4	0.3	Tetrachloro-m-xylene
13.896	-0.004	254603	14.124	-0.003	229119	42.2	42.3	0.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	504610	12.7
Hexabromobiphenyl	798898	658195	-17.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	321371	29.0
Hexabromobiphenyl	362541	381174	5.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.284	-0.004	75903	450.9	1	7.267	-0.003	69707	424.2
Aroclor-1016	2	7.662	-0.013	242413	446.1	2	7.859	-0.010	143495	404.9
Aroclor-1016	3	7.799	-0.009	93389	379.2	3	8.057	-0.010	58641	385.3
Aroclor-1016	4	8.413	-0.008	74734	476.0	4	8.227	-0.012	37240	465.3
Total Col1Ave (4 peaks):					438.1	Total Col2Ave (4 peaks):				420.0 RPD = 4
Corrected Ave (3 peaks):					425.4	Corrected Ave (3 peaks):				404.8 RPD = 5
Aroclor-1221	1	4.755	-0.005	1425	34.2	1	4.972	-0.015	1093	40.3
Aroclor-1221	2	6.150	-0.009	9965	135.6	2	6.315	-0.006	9680	187.3
Aroclor-1221	3	6.400	-0.009	50606	298.5	3	6.637	-0.009	32762	376.6
Total Col1Ave (3 peaks):					156.1	Total Col2Ave (3 peaks):				201.4 RPD = 25
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.755	-0.006	1425	56.8	1	4.972	-0.018	1093	69.9
Aroclor-1232	2	6.150	-0.010	9965	187.9	2	7.267	-0.010	69707	873.4
Aroclor-1232	3	7.662	-0.022	242413	1017.9	3	7.859	-0.018	143495	919.7
Aroclor-1232	4	8.583	-0.023	83607	827.5	4	8.718	-0.015	47544	1123.9
Total Col1Ave (4 peaks):					522.5	Total Col2Ave (4 peaks):				746.8 RPD = 35
Corrected Ave (3 peaks):					357.4	Corrected Ave (3 peaks):				621.0 RPD = 54*
Aroclor-1242	1	7.284	-0.004	75903	530.7	1	7.267	-0.003	69707	512.5
Aroclor-1242	2	7.662	-0.013	242413	533.8	2	7.859	-0.010	143495	497.0
Aroclor-1242	3	8.413	-0.008	74734	572.0	3	9.153	-0.014	13837	148.5
Aroclor-1242	4	9.000	-0.018	70180	258.7	4	9.573	-0.014	9252	82.6
Total Col1Ave (4 peaks):					473.8	Total Col2Ave (4 peaks):				310.2 RPD = 42*
Corrected Ave (3 peaks):					441.1	Corrected Ave (3 peaks):				242.7 RPD = 58*
Aroclor-1248	1	8.413	-0.008	74734	344.5	1	8.314	-0.006	44710	340.5
Aroclor-1248	2	8.583	-0.013	83607	301.8	2	8.718	-0.006	47544	344.3
Aroclor-1248	3	9.000	-0.015	70180	140.8	3	9.153	-0.016	13837	82.4
Aroclor-1248	4	9.302	-0.007	81021	331.9	4	9.573	-0.017	9252	46.9
Total Col1Ave (4 peaks):					279.7	Total Col2Ave (4 peaks):				203.5 RPD = 32
Corrected Ave (3 peaks):					258.2	Corrected Ave (3 peaks):				156.6 RPD = 49*
Aroclor-1254	1	9.302	-0.009	81021	182.4	1	9.450	-0.007	48529	234.2
Aroclor-1254	2	9.376	-0.013	17226	99.7	2	9.969	-0.007	15738	94.5
Aroclor-1254	3	9.670	-0.011	31207	111.2	3	10.146	0.020	98980	276.4
Aroclor-1254	4	9.802	-0.013	100463	183.7	4	10.371	-0.002	131178	353.7
Aroclor-1254	5	10.123	-0.009	201652	537.8	5	10.565	-0.007	149284	834.7
Total Col1Ave (5 peaks):					222.9	Total Col2Ave (5 peaks):				358.7 RPD = 47*
Corrected Ave (4 peaks):					144.2	Corrected Ave (4 peaks):				239.7 RPD = 50*
Aroclor-1260	1	11.045	-0.009	143254	597.9	1	11.653	-0.008	108652	540.0
Aroclor-1260	2	11.362	-0.010	143824	580.4	2	11.915	-0.009	267664	530.1
Aroclor-1260	3	11.732	-0.012	364946	560.5	3	12.434	-0.008	82524	613.8
Aroclor-1260	4	12.132	-0.016	193240	582.8	4	12.498	-0.009	178518	530.4
Aroclor-1260	5	12.245	-0.009	75801	558.5	NS	---			----
Total Col1Ave (5 peaks):					576.0	Total Col2Ave (4 peaks):				553.6 RPD = 4
Corrected Ave (4 peaks):					570.6	Corrected Ave (3 peaks):				533.5 RPD = 7
Aroclor-1262	1	10.822	-0.027	305400	1387.5	1	11.200	-0.017	97199	335.4
Aroclor-1262	2	12.245	-0.017	75801	221.5	2	11.653	-0.017	108652	432.8
Aroclor-1262	3	12.319	-0.018	90921	248.8	3	12.434	-0.018	82524	298.0
Aroclor-1262	4	12.985	-0.020	84219	287.1	4	12.498	-0.021	178518	411.6
Total Col1Ave (4 peaks):					536.2	Total Col2Ave (4 peaks):				369.5 RPD = 37
Corrected Ave (3 peaks):					252.5	Corrected Ave (3 peaks):				348.3 RPD = 32
Aroclor-1268	1	12.245	-0.017	75801	82.3	1	12.434	-0.016	82524	114.7
Aroclor-1268	2	12.319	-0.017	90921	100.9	2	12.498	-0.019	178518	242.0
Aroclor-1268	3	12.720	0.004	43665	59.1	3	12.896	-0.014	5783	21.1
Aroclor-1268	4	13.489	-0.016	31900	14.2	4	13.710	-0.017	28132	14.3
Total Col1Ave (4 peaks):					64.1	Total Col2Ave (4 peaks):				98.0 RPD = 42*

Corrected Ave (3 peaks): 51.9 Corrected Ave (3 peaks): 50.0 RPD = 4

Total PCB Area Col1 (5.931 - 13.801) = 4392263 Col1 Total PCB = 0.9 ppm*

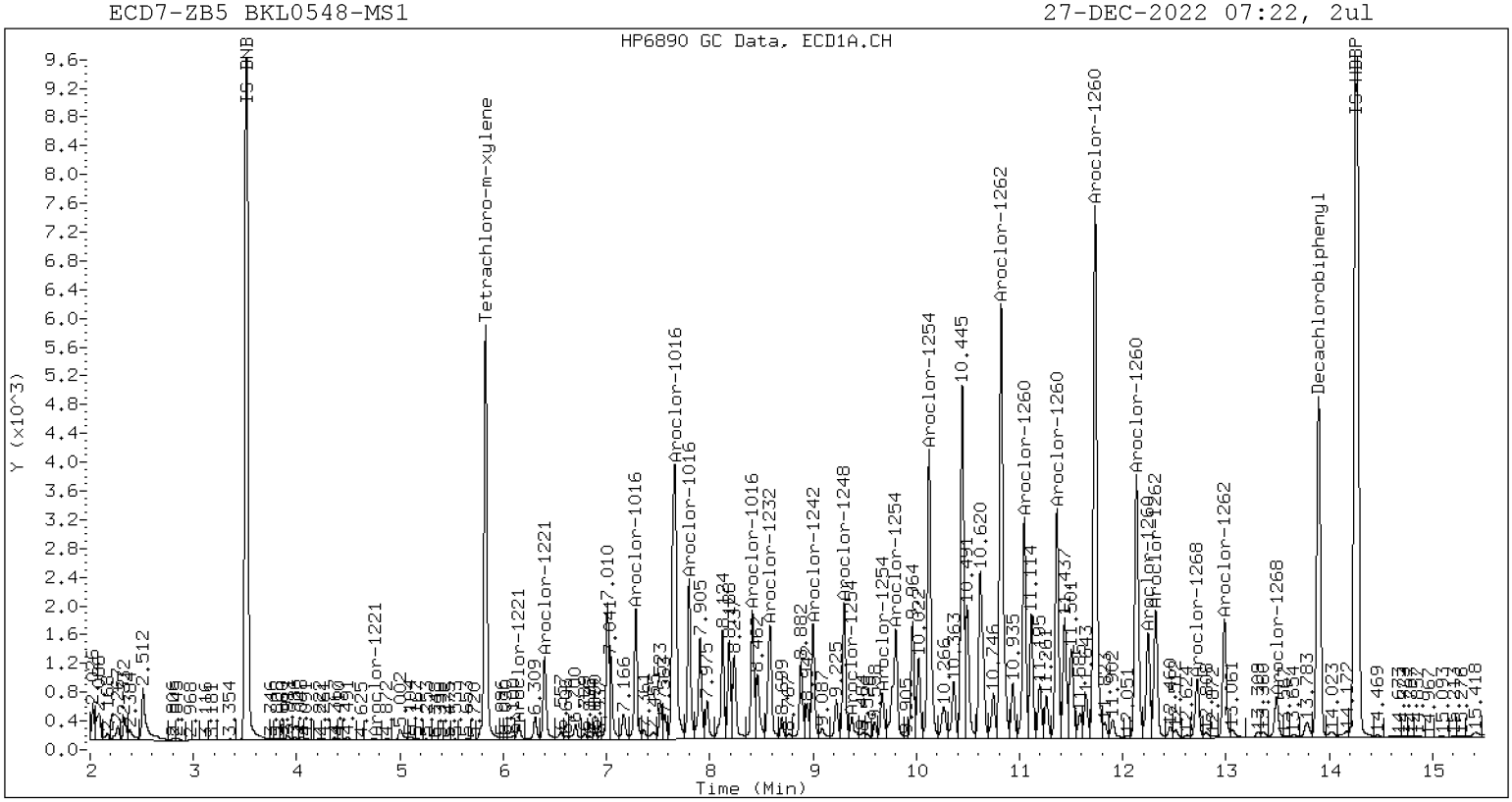
Total PCB Area Col2 (5.807 - 14.027) = 2862926 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

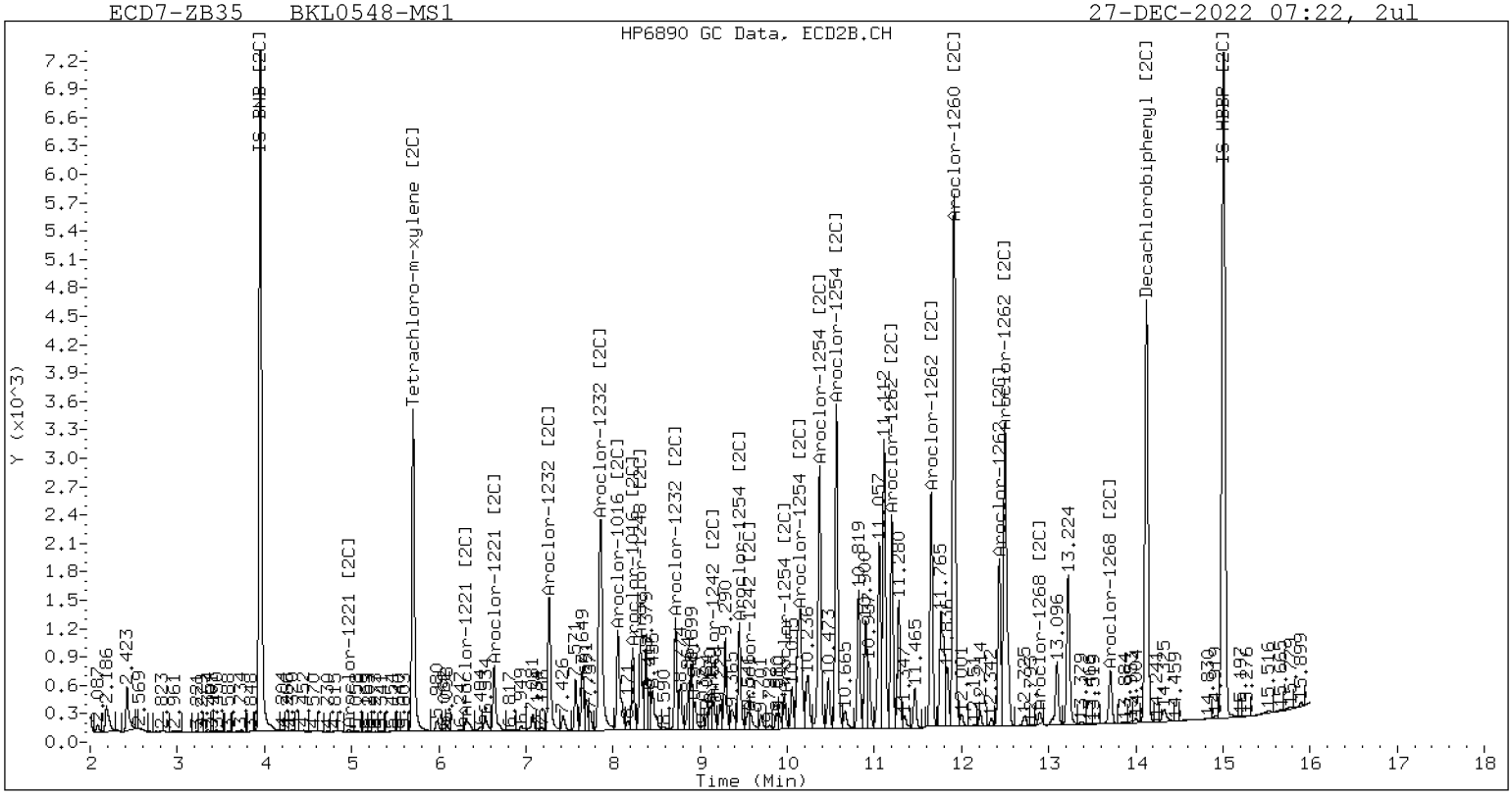
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0548-MS1 27-DEC-2022 07:22, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0548-MS1 27-DEC-2022 07:22, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221226.b/12262246ECD7.D
Data file 2: /221226.b/221226.b/12262246ECD7.D
Method: \\target\share\chem4\ecd7.i\221226.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0548-MSD1
Client ID:
Injection Date: 27-DEC-2022 07:43
Report Date: 12/29/2022 12:30
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.829	-0.002	245033	5.705	-0.002	152292	33.0	33.5	1.6	Tetrachloro-m-xylene
13.896	-0.005	254763	14.124	-0.003	229960	40.1	40.0	0.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	524674	17.2
Hexabromobiphenyl	798898	693909	-13.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	331761	33.2
Hexabromobiphenyl	362541	404523	11.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.283	-0.004	78500	448.5	1	7.267	-0.002	70928	418.1
Aroclor-1016	2	7.662	-0.013	242075	428.4	2	7.858	-0.011	143842	393.2
Aroclor-1016	3	7.799	-0.009	93260	364.2	3	8.058	-0.009	58637	373.2
Aroclor-1016	4	8.412	-0.008	71823	440.0	4	8.227	-0.012	36703	444.3
Total Col1Ave (4 peaks):					420.3	Total Col2Ave (4 peaks):				407.2 RPD = 3
Corrected Ave (3 peaks):					410.9	Corrected Ave (3 peaks):				394.9 RPD = 4
Aroclor-1221	1	4.755	-0.005	566	13.0	1	4.972	-0.015	1147	41.0
Aroclor-1221	2	6.150	-0.009	10037	131.4	2	6.315	-0.006	6516	122.1
Aroclor-1221	3	6.400	-0.009	50800	288.2	3	6.637	-0.009	30469	339.3
Total Col1Ave (3 peaks):					144.2	Total Col2Ave (3 peaks):				167.5 RPD = 15
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.755	-0.006	566	21.7	1	4.972	-0.017	1147	71.1
Aroclor-1232	2	6.150	-0.010	10037	182.0	2	7.267	-0.009	70928	860.9
Aroclor-1232	3	7.662	-0.022	242075	977.6	3	7.858	-0.018	143842	893.1
Aroclor-1232	4	8.583	-0.023	80412	765.4	4	8.719	-0.015	46067	1054.9
Total Col1Ave (4 peaks):					486.7	Total Col2Ave (4 peaks):				720.0 RPD = 39
Corrected Ave (3 peaks):					323.0	Corrected Ave (3 peaks):				608.4 RPD = 61*
Aroclor-1242	1	7.283	-0.004	78500	527.9	1	7.267	-0.003	70928	505.1
Aroclor-1242	2	7.662	-0.013	242075	512.7	2	7.858	-0.011	143842	482.6
Aroclor-1242	3	8.412	-0.009	71823	528.7	3	9.153	-0.014	12609	131.1
Aroclor-1242	4	9.000	-0.018	63258	224.2	4	9.571	-0.016	7718	66.8
Total Col1Ave (4 peaks):					448.4	Total Col2Ave (4 peaks):				296.4 RPD = 41*
Corrected Ave (3 peaks):					421.6	Corrected Ave (3 peaks):				226.8 RPD = 60*
Aroclor-1248	1	8.412	-0.009	71823	318.4	1	8.313	-0.006	43543	321.3
Aroclor-1248	2	8.583	-0.013	80412	279.2	2	8.719	-0.006	46067	323.2
Aroclor-1248	3	9.000	-0.015	63258	122.1	3	9.153	-0.016	12609	72.7
Aroclor-1248	4	9.301	-0.007	74250	292.5	4	9.571	-0.019	7718	37.9
Total Col1Ave (4 peaks):					253.0	Total Col2Ave (4 peaks):				188.8 RPD = 29
Corrected Ave (3 peaks):					231.3	Corrected Ave (3 peaks):				144.0 RPD = 47*
Aroclor-1254	1	9.301	-0.010	74250	160.7	1	9.450	-0.007	45517	212.8
Aroclor-1254	2	9.376	-0.013	13770	76.6	2	9.969	-0.007	13434	78.1
Aroclor-1254	3	9.669	-0.012	26315	90.2	3	10.147	0.020	93190	252.1
Aroclor-1254	4	9.801	-0.014	89430	157.2	4	10.372	-0.002	127480	333.0
Aroclor-1254	5	10.123	-0.009	194028	497.7	5	10.565	-0.007	147652	799.7
Total Col1Ave (5 peaks):					196.5	Total Col2Ave (5 peaks):				335.1 RPD = 52*
Corrected Ave (4 peaks):					121.2	Corrected Ave (4 peaks):				219.0 RPD = 57*
Aroclor-1260	1	11.046	-0.009	142251	563.2	1	11.655	-0.007	109348	512.1
Aroclor-1260	2	11.362	-0.009	143331	548.7	2	11.916	-0.008	270561	505.0
Aroclor-1260	3	11.732	-0.012	365049	531.8	3	12.435	-0.007	83626	586.1
Aroclor-1260	4	12.132	-0.016	194698	557.0	4	12.498	-0.009	180037	504.0
Aroclor-1260	5	12.245	-0.009	75993	531.1	NS	---			----
Total Col1Ave (5 peaks):					546.3	Total Col2Ave (4 peaks):				526.8 RPD = 4
Corrected Ave (4 peaks):					542.1	Corrected Ave (3 peaks):				507.0 RPD = 7
Aroclor-1262	1	10.822	-0.026	299809	1292.0	1	11.201	-0.016	98007	318.6
Aroclor-1262	2	12.245	-0.018	75993	210.6	2	11.655	-0.015	109348	410.5
Aroclor-1262	3	12.318	-0.018	90957	236.1	3	12.435	-0.017	83626	284.6
Aroclor-1262	4	12.984	-0.021	85037	275.0	4	12.498	-0.021	180037	391.1
Total Col1Ave (4 peaks):					503.4	Total Col2Ave (4 peaks):				351.2 RPD = 36
Corrected Ave (3 peaks):					240.6	Corrected Ave (3 peaks):				331.5 RPD = 32
Aroclor-1268	1	12.245	-0.017	75993	78.3	1	12.435	-0.015	83626	109.5
Aroclor-1268	2	12.318	-0.017	90957	95.8	2	12.498	-0.019	180037	229.9
Aroclor-1268	3	12.720	0.004	43512	55.9	3	12.897	-0.013	5678	19.6
Aroclor-1268	4	13.488	-0.018	31828	13.4	4	13.709	-0.017	28413	13.6
Total Col1Ave (4 peaks):					60.8	Total Col2Ave (4 peaks):				93.2 RPD = 42*

Corrected Ave (3 peaks): 49.2 Corrected Ave (3 peaks): 47.6 RPD = 3

Total PCB Area Col1 (5.931 - 13.801) = 4281599 Col1 Total PCB = 0.9 ppm*

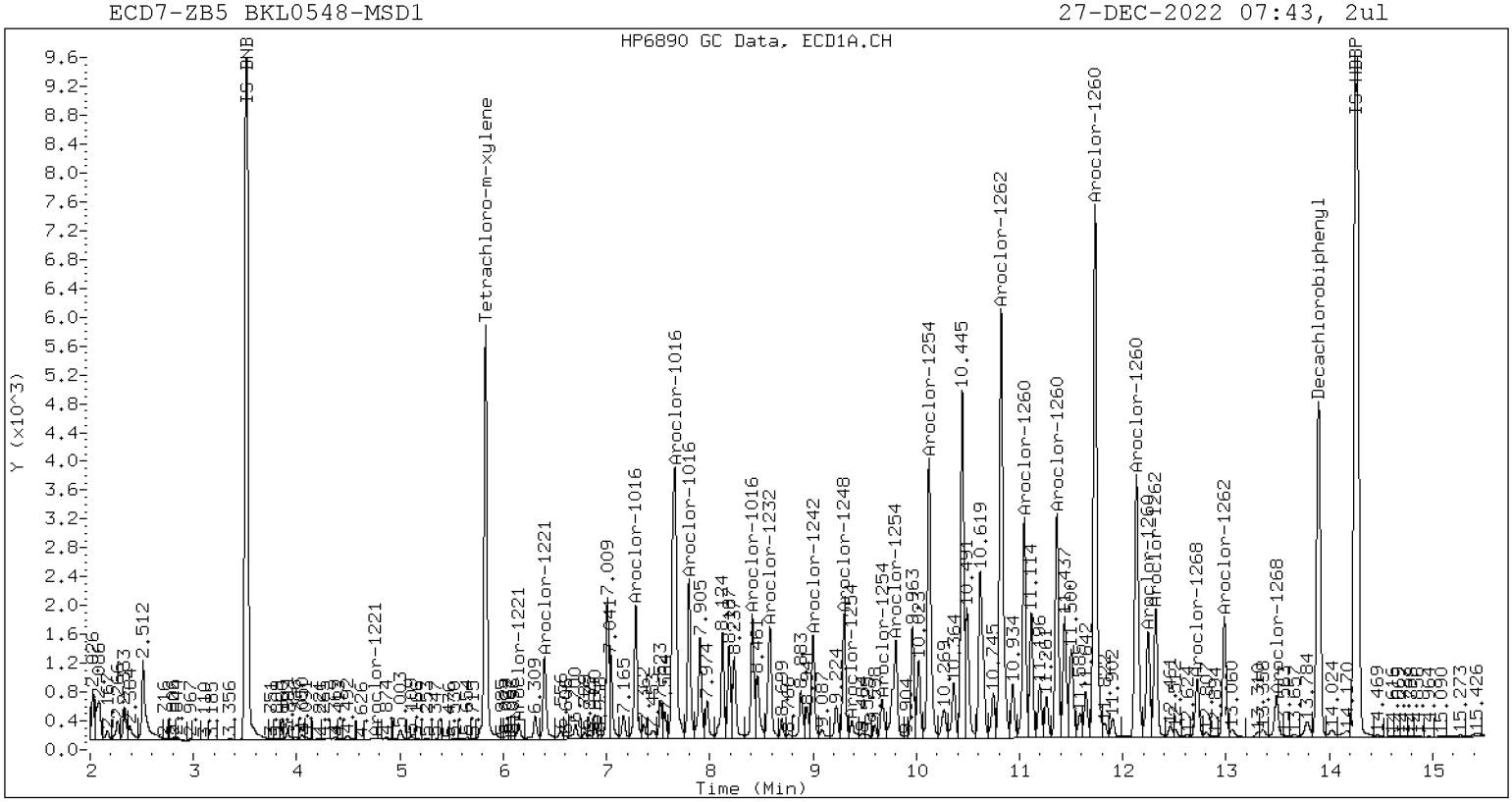
Total PCB Area Col2 (5.807 - 14.027) = 2831477 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

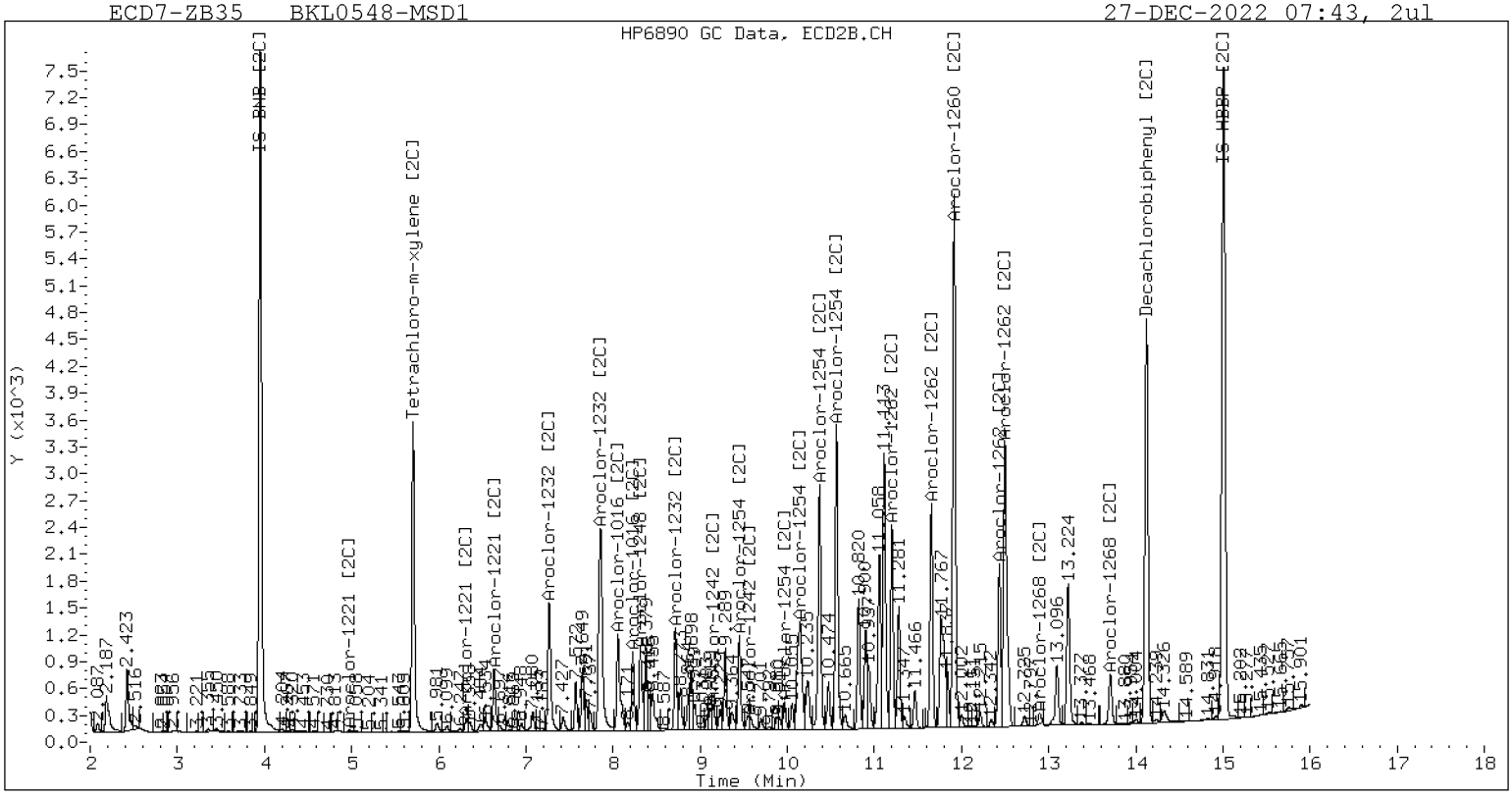
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0548-MSD1 27-DEC-2022 07:43, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0548-MSD1 27-DEC-2022 07:43, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0190-SRM1
Batch: BKL0190
Initial/Final: 2.5 g / 2.5 mL
Preparation: EPA 3546 (Microwave)
Analyzed: 12/17/2022 11:45
Standard ID: K010815
Expires: 05/17/2023
Standard Lot#: PSRM0164
Description: Puget Sound reference-SRM

ANALYTE	TRUE (ug/kg wet)	FOUND (ug/kg wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Aroclor 1260	108.00	121	2.9	20.0		112	38 - 167
Aroclor 1260 [2C]	108.00	112	2.9	20.0		103	38 - 167

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172208ECD7.D
Data file 2: /221217.b/221217.b/12172208ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0190-SRM1
Client ID:
Injection Date: 17-DEC-2022 11:45
Report Date: 12/20/2022 15:07
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	-0.004	233242	5.710	-0.001	130252	32.3	32.4	0.4	Tetrachloro-m-xylene
13.900	-0.008	272624	14.129	-0.004	217251	40.6	35.1	14.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	509622	13.8
Hexabromobiphenyl	798898	733042	-8.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	292895	17.6
Hexabromobiphenyl	362541	435524	20.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.258	-0.036	9256	54.4	1	7.279	0.005	4718	31.5
Aroclor-1016	2	7.668	-0.017	8085	14.7	2	7.864	-0.008	9432	29.2
Aroclor-1016	3	7.811	-0.006	4725	19.0	3	8.065	-0.007	1765	12.7
Aroclor-1016	4	8.418	-0.011	11125	70.2	4	8.234	-0.010	1524	20.9
Total Col1Ave (4 peaks):					39.6	Total Col2Ave (4 peaks):				23.6 RPD = 51*
Corrected Ave (3 peaks):					29.4	Corrected Ave (3 peaks):				20.9 RPD = 34
Aroclor-1221	1	4.764	0.004	159	3.8	1	4.972	-0.015	442	17.9
Aroclor-1221	2	6.143	-0.016	921	12.4	2	6.363	0.042	5766	122.4
Aroclor-1221	3	6.415	0.006	1879	11.0	3	6.659	0.014	1429	18.0
Total Col1Ave (3 peaks):					9.1	Total Col2Ave (3 peaks):				52.8 RPD = 141*
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.764	0.002	159	6.3	1	4.972	-0.018	442	31.0
Aroclor-1232	2	6.143	-0.017	921	17.2	2	7.279	0.002	4718	64.9
Aroclor-1232	3	7.668	-0.016	8085	33.6	3	7.864	-0.012	9432	66.3
Aroclor-1232	4	8.588	-0.018	8358	81.9	4	8.726	-0.008	4705	122.0
Total Col1Ave (4 peaks):					34.7	Total Col2Ave (4 peaks):				71.1 RPD = 69*
Corrected Ave (3 peaks):					19.0	Corrected Ave (3 peaks):				54.1 RPD = 96*
Aroclor-1242	1	7.258	-0.037	9256	64.1	1	7.279	0.005	4718	38.1
Aroclor-1242	2	7.668	-0.017	8085	17.6	2	7.864	-0.009	9432	35.8
Aroclor-1242	3	8.418	-0.012	11125	84.3	3	9.161	-0.013	6602	77.8
Aroclor-1242	4	9.005	-0.026	19714	71.9	4	9.553	-0.045	10068	98.7
Total Col1Ave (4 peaks):					59.5	Total Col2Ave (4 peaks):				62.6 RPD = 5
Corrected Ave (3 peaks):					51.2	Corrected Ave (3 peaks):				50.6 RPD = 1
Aroclor-1248	1	8.418	-0.009	11125	50.8	1	8.320	-0.005	5964	49.8
Aroclor-1248	2	8.588	-0.016	8358	29.9	2	8.726	-0.005	4705	37.4
Aroclor-1248	3	9.005	-0.017	19714	39.2	3	9.161	-0.014	6602	43.1
Aroclor-1248	4	9.306	-0.005	27543	111.7	4	9.553	-0.045	10068	56.0
Total Col1Ave (4 peaks):					57.9	Total Col2Ave (4 peaks):				46.6 RPD = 22
Corrected Ave (3 peaks):					39.9	Corrected Ave (3 peaks):				43.5 RPD = 8
Aroclor-1254	1	9.306	-0.015	27543	61.4	1	9.457	-0.007	15288	81.0
Aroclor-1254	2	9.382	-0.020	10844	62.1	2	9.975	-0.006	7451	49.1
Aroclor-1254	3	9.677	-0.018	16639	58.7	3	10.127	-0.007	29291	89.8
Aroclor-1254	4	9.808	-0.023	37325	67.6	4	10.377	-0.006	36847	109.0
Aroclor-1254	5	10.128	-0.061	59694	157.6	5	10.571	-0.008	37322	229.0
Total Col1Ave (5 peaks):					81.5	Total Col2Ave (5 peaks):				111.6 RPD = 31
Corrected Ave (4 peaks):					62.5	Corrected Ave (4 peaks):				82.2 RPD = 27
Aroclor-1260	1	11.050	-0.012	34723	130.1	1	11.660	-0.007	24528	106.7
Aroclor-1260	2	11.363	-0.014	28467	103.2	2	11.921	-0.009	58150	100.8
Aroclor-1260	3	11.735	-0.017	90828	125.3	3	12.440	-0.009	21126	137.5
Aroclor-1260	4	12.136	-0.022	46451	125.8	4	12.504	-0.009	39212	102.0
Aroclor-1260	5	12.250	-0.012	18431	121.9	NS	---			----
Total Col1Ave (5 peaks):					121.3	Total Col2Ave (4 peaks):				111.7 RPD = 8
Corrected Ave (4 peaks):					119.0	Corrected Ave (3 peaks):				103.2 RPD = 14
Aroclor-1262	1	10.827	-0.021	79475	324.2	1	11.206	-0.011	22924	69.2
Aroclor-1262	2	12.250	-0.013	18431	48.4	2	11.660	-0.010	24528	85.5
Aroclor-1262	3	12.322	-0.014	22681	55.7	3	12.440	-0.012	21126	66.8
Aroclor-1262	4	12.987	-0.018	21775	66.7	4	12.504	-0.015	39212	79.1
Total Col1Ave (4 peaks):					123.7	Total Col2Ave (4 peaks):				75.2 RPD = 49*
Corrected Ave (3 peaks):					56.9	Corrected Ave (3 peaks):				71.7 RPD = 23
Aroclor-1268	1	12.250	-0.013	18431	18.0	1	12.440	-0.010	21126	25.7
Aroclor-1268	2	12.322	-0.013	22681	22.6	2	12.504	-0.013	39212	46.5
Aroclor-1268	3	12.727	0.010	11185	13.6	3	12.901	-0.008	718	2.3
Aroclor-1268	4	13.492	-0.013	4282	1.7	4	13.715	-0.012	4586	2.0
Total Col1Ave (4 peaks):					14.0	Total Col2Ave (4 peaks):				19.1 RPD = 31

Corrected Ave (3 peaks): 11.1 Corrected Ave (3 peaks): 10.0 RPD = 10

Total PCB Area Col1 (5.936 - 13.808) = 1062611 Col1 Total PCB = 0.2 ppm*

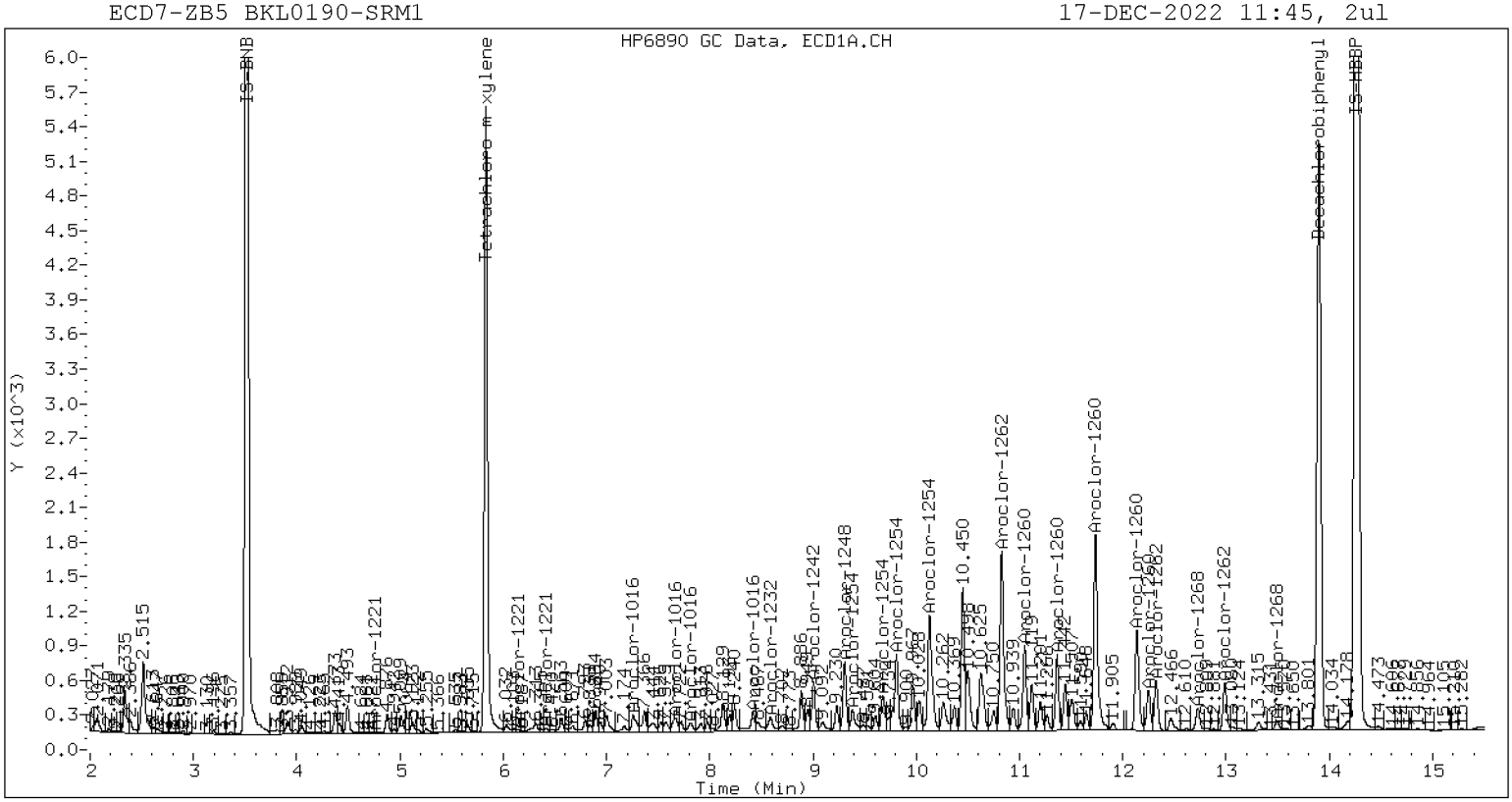
Total PCB Area Col2 (5.936 - 13.808) = 661965 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

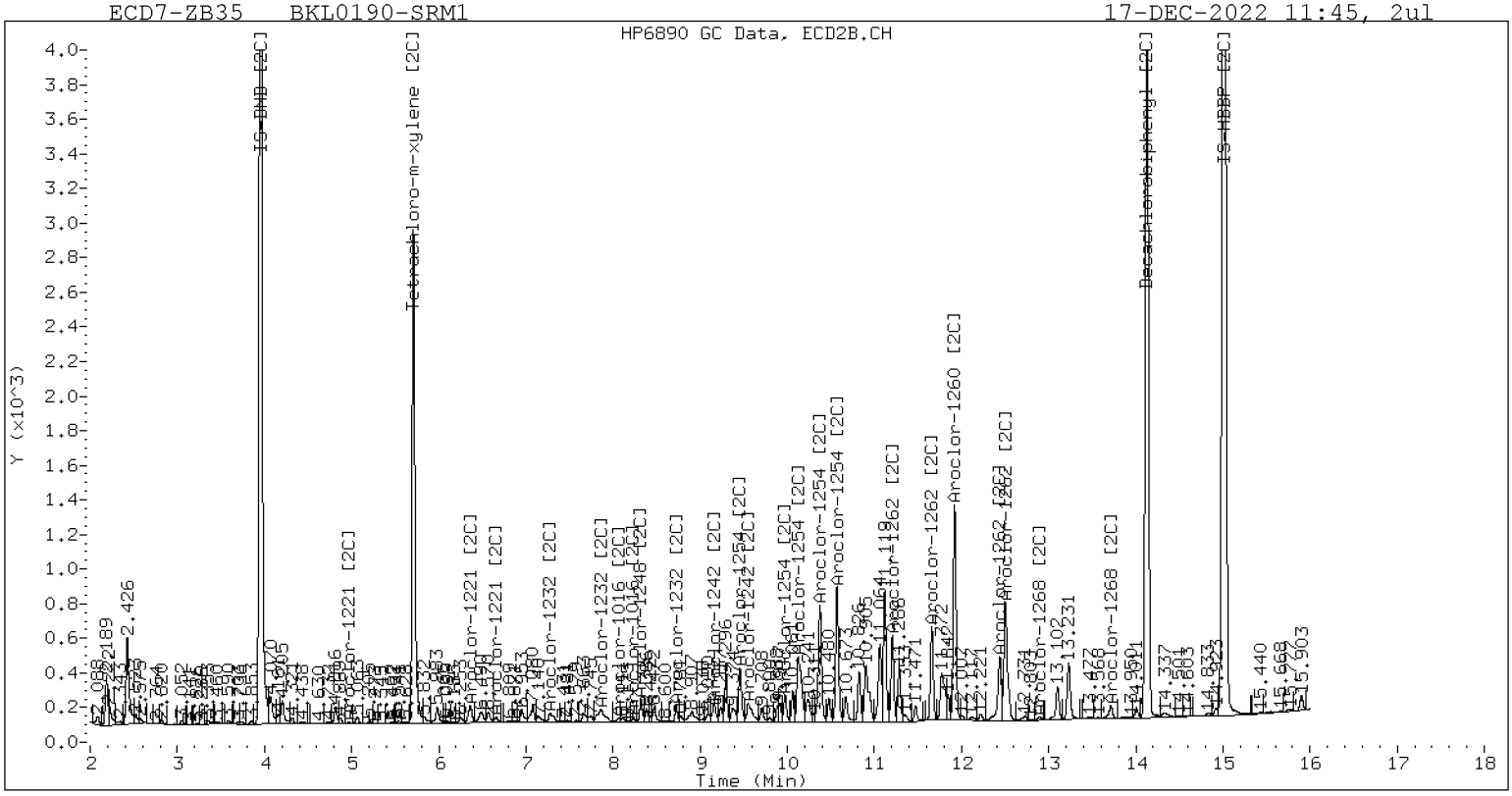
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0190-SRM1 17-DEC-2022 11:45, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0190-SRM1 17-DEC-2022 11:45, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0548-SRM1
Batch: BKL0548
Initial/Final: 2.5 g / 2.5 mL
Preparation: EPA 3546 (Microwave)
Analyzed: 12/27/2022 6:39
Standard ID: K010815
Expires: 05/17/2023
Standard Lot#: PSRM0164
Description: Puget Sound reference-SRM

ANALYTE	TRUE (ug/kg wet)	FOUND (ug/kg wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Aroclor 1260	108.00	159	2.9	20.0		147	38 - 167
Aroclor 1260 [2C]	108.00	160	2.9	20.0		148	38 - 167

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221226.b/12262243ECD7.D
Data file 2: /221226.b/221226.b/12262243ECD7.D
Method: \\target\share\chem4\ecd7.i\221226.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0548-SRM1
Client ID:
Injection Date: 27-DEC-2022 06:39
Report Date: 12/29/2022 12:30
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.001	251162	5.706	-0.002	160229	31.3	34.8	10.6	Tetrachloro-m-xylene
13.897	-0.004	294152	14.123	-0.004	242694	41.7	40.2	3.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	565470	26.3
Hexabromobiphenyl	798898	770395	-3.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	335545	34.7
Hexabromobiphenyl	362541	424778	17.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.325	0.038	10953	58.1	1	7.279	0.009	19024	110.9
Aroclor-1016	2	7.662	-0.013	12903	21.2	2	7.850	-0.019	9426	25.5
Aroclor-1016	3	7.814	0.006	11983	43.4	3	8.060	-0.007	2370	14.9
Aroclor-1016	4	8.419	-0.002	21355	121.4	4	8.226	-0.013	7518	90.0
Total Col1Ave (4 peaks):					61.0	Total Col2Ave (4 peaks):				60.3 RPD = 1
Corrected Ave (3 peaks):					40.9	Corrected Ave (3 peaks):				43.5 RPD = 6
Aroclor-1221	1	4.758	-0.002	3320	71.0	1	4.970	-0.017	2868	101.3
Aroclor-1221	2	6.138	-0.021	23370	283.8	2	6.362	0.041	37972	703.6
Aroclor-1221	3	6.411	0.003	6988	36.8	3	6.657	0.011	6551	72.1
Total Col1Ave (3 peaks):					130.5	Total Col2Ave (3 peaks):				292.3 RPD = 77*
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.758	-0.003	3320	118.0	1	4.970	-0.020	2868	175.8
Aroclor-1232	2	6.138	-0.022	23370	393.3	2	7.279	0.002	19024	228.3
Aroclor-1232	3	7.662	-0.022	12903	48.3	3	7.850	-0.026	9426	57.9
Aroclor-1232	4	8.567	-0.039	19192	169.5	4	8.718	-0.016	8648	195.8
Total Col1Ave (4 peaks):					182.3	Total Col2Ave (4 peaks):				164.4 RPD = 10
Corrected Ave (3 peaks):					112.0	Corrected Ave (3 peaks):				143.1 RPD = 24
Aroclor-1242	1	7.325	0.038	10953	68.3	1	7.279	0.008	19024	134.0
Aroclor-1242	2	7.662	-0.013	12903	25.4	2	7.850	-0.019	9426	31.3
Aroclor-1242	3	8.419	-0.002	21355	145.8	3	9.154	-0.013	8218	84.5
Aroclor-1242	4	9.001	-0.017	23906	78.6	4	9.547	-0.040	11733	100.4
Total Col1Ave (4 peaks):					79.5	Total Col2Ave (4 peaks):				87.5 RPD = 10
Corrected Ave (3 peaks):					57.4	Corrected Ave (3 peaks):				72.0 RPD = 23
Aroclor-1248	1	8.419	-0.002	21355	87.8	1	8.314	-0.006	7604	55.5
Aroclor-1248	2	8.567	-0.029	19192	61.8	2	8.718	-0.006	8648	60.0
Aroclor-1248	3	9.001	-0.014	23906	42.8	3	9.154	-0.015	8218	46.9
Aroclor-1248	4	9.302	-0.007	30986	113.3	4	9.547	-0.042	11733	57.0
Total Col1Ave (4 peaks):					76.4	Total Col2Ave (4 peaks):				54.8 RPD = 33
Corrected Ave (3 peaks):					64.2	Corrected Ave (3 peaks):				53.1 RPD = 19
Aroclor-1254	1	9.302	-0.009	30986	62.2	1	9.451	-0.007	18495	85.5
Aroclor-1254	2	9.377	-0.012	12247	63.3	2	9.969	-0.007	8866	51.0
Aroclor-1254	3	9.673	-0.008	18904	60.1	3	10.120	-0.006	36611	97.9
Aroclor-1254	4	9.803	-0.013	43374	70.8	4	10.371	-0.003	47312	122.2
Aroclor-1254	5	10.124	-0.008	71860	171.0	5	10.566	-0.006	47732	255.6
Total Col1Ave (5 peaks):					85.5	Total Col2Ave (5 peaks):				122.4 RPD = 36
Corrected Ave (4 peaks):					64.1	Corrected Ave (4 peaks):				89.1 RPD = 33
Aroclor-1260	1	11.046	-0.009	44921	160.2	1	11.654	-0.007	34469	153.7
Aroclor-1260	2	11.360	-0.012	38910	134.2	2	11.915	-0.009	82918	147.4
Aroclor-1260	3	11.731	-0.012	126947	166.6	3	12.434	-0.008	28028	187.1
Aroclor-1260	4	12.133	-0.015	66025	170.1	4	12.499	-0.009	56778	151.4
Aroclor-1260	5	12.246	-0.008	25732	162.0	NS	---			----
Total Col1Ave (5 peaks):					158.6	Total Col2Ave (4 peaks):				159.9 RPD = 1
Corrected Ave (4 peaks):					155.7	Corrected Ave (3 peaks):				150.8 RPD = 3
Aroclor-1262	1	10.822	-0.026	97937	380.1	1	11.201	-0.017	31157	96.5
Aroclor-1262	2	12.246	-0.017	25732	64.2	2	11.654	-0.016	34469	123.2
Aroclor-1262	3	12.319	-0.018	31221	73.0	3	12.434	-0.017	28028	90.8
Aroclor-1262	4	12.985	-0.020	29071	84.7	4	12.499	-0.021	56778	117.5
Total Col1Ave (4 peaks):					150.5	Total Col2Ave (4 peaks):				107.0 RPD = 34
Corrected Ave (3 peaks):					74.0	Corrected Ave (3 peaks):				101.6 RPD = 31
Aroclor-1268	1	12.246	-0.016	25732	23.9	1	12.434	-0.015	28028	35.0
Aroclor-1268	2	12.319	-0.016	31221	29.6	2	12.499	-0.019	56778	69.1
Aroclor-1268	3	12.723	0.007	14418	16.7	3	12.895	-0.015	1229	4.0
Aroclor-1268	4	13.489	-0.016	5346	2.0	4	13.710	-0.017	6716	3.1
Total Col1Ave (4 peaks):					18.0	Total Col2Ave (4 peaks):				27.8 RPD = 42*

Corrected Ave (3 peaks): 14.2 Corrected Ave (3 peaks): 14.0 RPD = 1

Total PCB Area Col1 (5.931 - 13.801) = 1815291 Col1 Total PCB = 0.3 ppm*

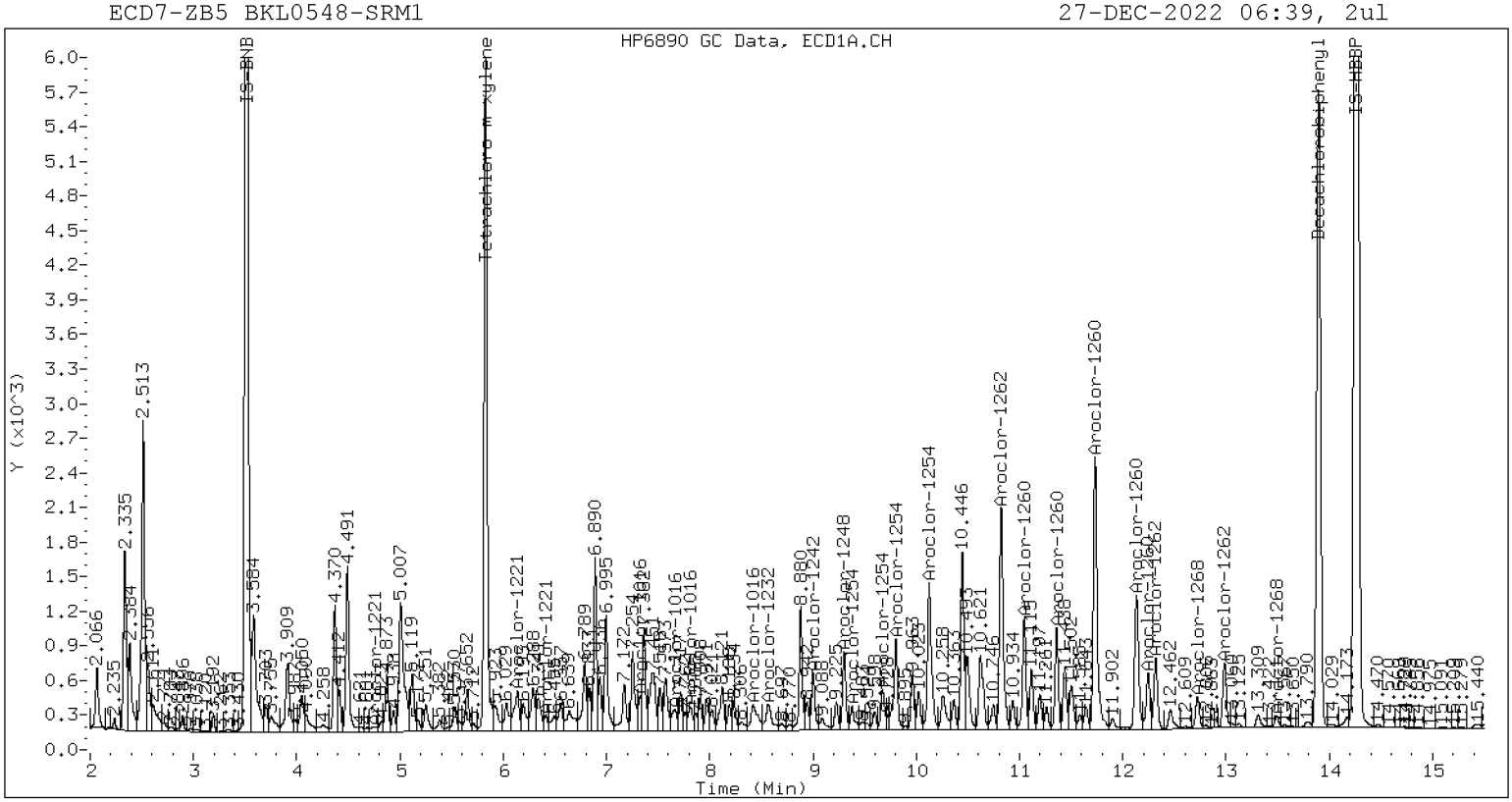
Total PCB Area Col2 (5.807 - 14.027) = 1124936 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

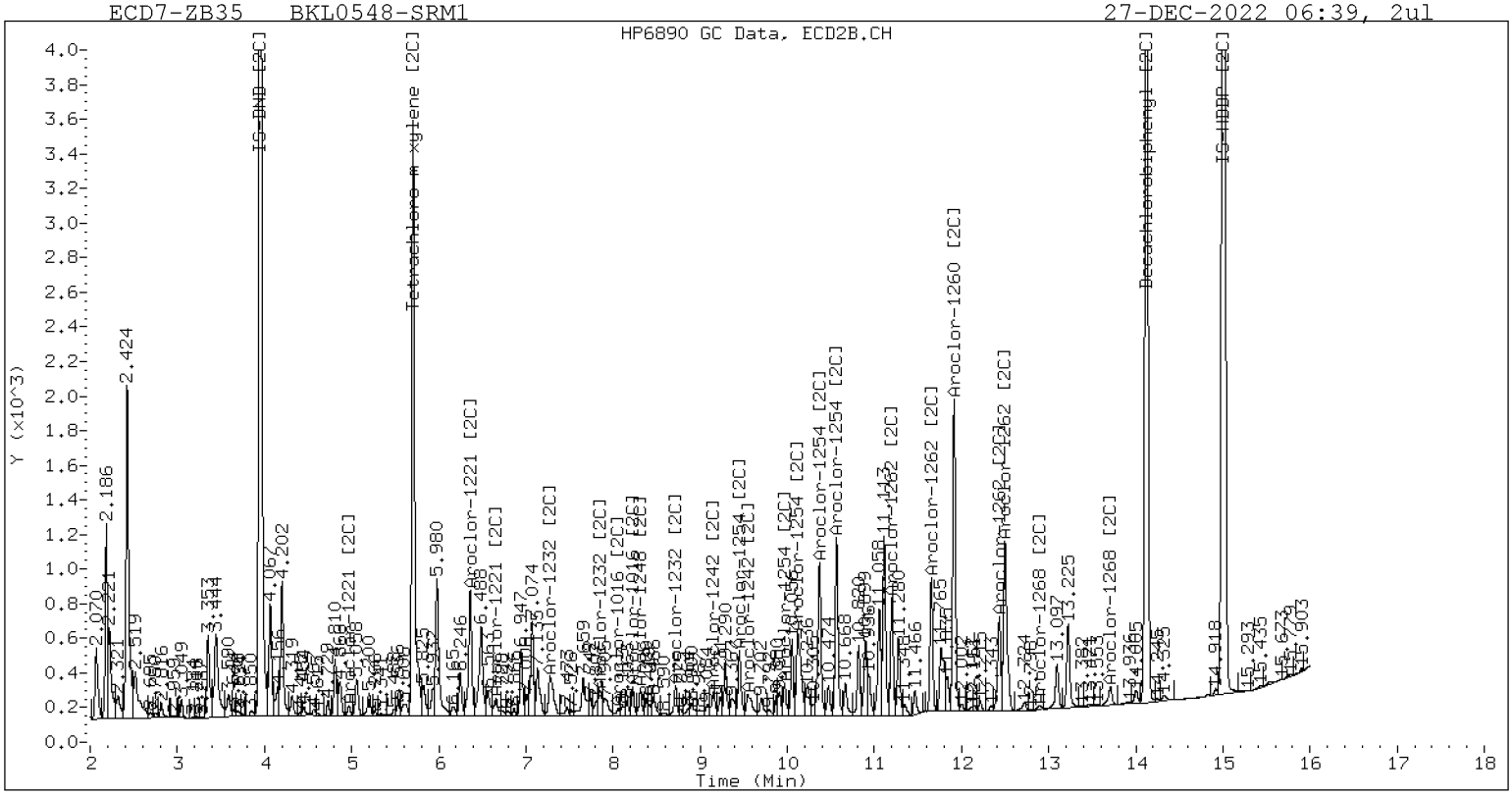
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0548-SRM1 27-DEC-2022 06:39, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0548-SRM1 27-DEC-2022 06:39, 2ul



ZB-35 Manual Integration: NO

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (1):	ZB5

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor 1016	250	4.442913E-02	20	4.639571E-02	50	4.556147E-02	1000	3.903737E-02	100	4.740063E-02	500	4.233908E-02
Aroclor-1016 (1)	250	0.0268956	20	2.831682E-02	50	2.733211E-02	1000	2.312039E-02	100	2.907079E-02	500	2.538029E-02
Aroclor-1016 (2)	250	8.716121E-02	20	8.901322E-02	50	8.663465E-02	1000	7.848829E-02	100	9.099677E-02	500	8.464895E-02
Aroclor-1016 (3)	250	3.855698E-02	20	4.367479E-02	50	4.254251E-02	1000	3.139182E-02	100	4.326795E-02	500	3.482108E-02
Aroclor-1016 (4)	250	2.510275E-02	20	2.457802E-02	50	2.573659E-02	1000	2.314899E-02	100	2.626702E-02	500	2.450599E-02
Aroclor 1260	250	3.933402E-02	20	3.911434E-02	50	3.944532E-02	1000	3.674839E-02	100	4.123393E-02	500	3.832917E-02
Aroclor-1260 (1)	250	2.958395E-02	20	0.0300145	50	2.965004E-02	1000	0.0267287	100	3.044201E-02	500	2.830143E-02
Aroclor-1260 (2)	250	3.061257E-02	20	3.036959E-02	50	3.047228E-02	1000	2.827023E-02	100	0.0314491	500	2.953467E-02
Aroclor-1260 (3)	250	7.944504E-02	20	7.975557E-02	50	8.046888E-02	1000	7.412282E-02	100	8.422959E-02	500	7.678876E-02
Aroclor-1260 (4)	250	4.058671E-02	20	3.908843E-02	50	3.991468E-02	1000	3.908356E-02	100	4.249747E-02	500	4.063095E-02
Aroclor-1260 (5)	250	1.644185E-02	20	1.634363E-02	50	1.672073E-02	1000	1.553661E-02	100	1.755145E-02	500	1.639006E-02
Decachlorobiphenyl	40	0.7065182	3.2	0.8368252	8	0.7533014	160	0.6637701	16	0.7576822	80	0.6818994
Tetrachlorometaxylene	40	1.143098	3.2	1.157321	8	1.126881	160	1.081522	16	1.184437	80	1.108767

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (1):	ZB5

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor 1221							250	1.504683E-02				
Aroclor-1221 (1)							250	6.613213E-03				
Aroclor-1221 (2)							250	1.165022E-02				
Aroclor-1221 (3)							250	2.687706E-02				
Aroclor 1232									250	0.0165403		
Aroclor-1232 (1)									250	3.980209E-03		
Aroclor-1232 (2)									250	8.407005E-03		
Aroclor-1232 (3)									250	3.775546E-02		
Aroclor-1232 (4)									250	1.601853E-02		
Aroclor 1242	250	3.960003E-02										
Aroclor-1242 (1)	250	2.267549E-02										
Aroclor-1242 (2)	250	0.0719967										
Aroclor-1242 (3)	250	2.071466E-02										
Aroclor-1242 (4)	250	4.301325E-02										
Aroclor 1248			250	4.900615E-02								
Aroclor-1248 (1)			250	3.439698E-02								
Aroclor-1248 (2)			250	4.391715E-02								
Aroclor-1248 (3)			250	7.900514E-02								
Aroclor-1248 (4)			250	3.870534E-02								
Aroclor 1254					250	5.769652E-02						
Aroclor-1254 (1)					250	7.043771E-02						
Aroclor-1254 (2)					250	2.739345E-02						
Aroclor-1254 (3)					250	4.448852E-02						
Aroclor-1254 (4)					250	8.671846E-02						
Aroclor-1254 (5)					250	5.944443E-02						
Aroclor 1262							250	3.710383E-02				
Aroclor-1262 (1)							250	2.675294E-02				
Aroclor-1262 (2)							250	4.159274E-02				

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (1):	ZB5

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor-1262 (3)							250	4.441976E-02				
Aroclor-1262 (4)							250	0.0356499				
Aroclor 1268									250	0.1462909		
Aroclor-1268 (1)									250	0.1119264		
Aroclor-1268 (2)									250	0.1094959		
Aroclor-1268 (3)									250	8.974437E-02		
Aroclor-1268 (4)									250	0.2739969		

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (1):	ZB5

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Aroclor 1016	0.0441939	6.9			RSD (20)	
Aroclor-1016 (1)	0.026686	8.1			RSD (20)	
Aroclor-1016 (2)	8.615718E-02	5.0			RSD (20)	
Aroclor-1016 (3)	3.904252E-02	13.0			RSD (20)	
Aroclor-1016 (4)	2.488989E-02	4.4			RSD (20)	
Aroclor 1221		0.0			RSD (20)	
Aroclor-1221 (1)		0.0			RSD (20)	
Aroclor-1221 (2)		0.0			RSD (20)	
Aroclor-1221 (3)		0.0			RSD (20)	
Aroclor 1232		0.0			RSD (20)	
Aroclor-1232 (1)		0.0			RSD (20)	
Aroclor-1232 (2)		0.0			RSD (20)	
Aroclor-1232 (3)		0.0			RSD (20)	
Aroclor-1232 (4)		0.0			RSD (20)	
Aroclor 1242		0.0			RSD (20)	
Aroclor-1242 (1)		0.0			RSD (20)	
Aroclor-1242 (2)		0.0			RSD (20)	
Aroclor-1242 (3)		0.0			RSD (20)	
Aroclor-1242 (4)		0.0			RSD (20)	
Aroclor 1248		0.0			RSD (20)	
Aroclor-1248 (1)		0.0			RSD (20)	
Aroclor-1248 (2)		0.0			RSD (20)	
Aroclor-1248 (3)		0.0			RSD (20)	
Aroclor-1248 (4)		0.0			RSD (20)	
Aroclor 1254		0.0			RSD (20)	
Aroclor-1254 (1)		0.0			RSD (20)	
Aroclor-1254 (2)		0.0			RSD (20)	
Aroclor-1254 (3)		0.0			RSD (20)	
Aroclor-1254 (4)		0.0			RSD (20)	
Aroclor-1254 (5)		0.0			RSD (20)	
Aroclor 1260	0.0390342	3.8			RSD (20)	

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (1):	ZB5

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Aroclor-1260 (1)	2.912011E-02	4.7			RSD (20)	
Aroclor-1260 (2)	3.011807E-02	3.6			RSD (20)	
Aroclor-1260 (3)	7.913511E-02	4.3			RSD (20)	
Aroclor-1260 (4)	0.0403003	3.2			RSD (20)	
Aroclor-1260 (5)	1.649739E-02	3.9			RSD (20)	
Aroclor 1262		0.0			RSD (20)	
Aroclor-1262 (1)		0.0			RSD (20)	
Aroclor-1262 (2)		0.0			RSD (20)	
Aroclor-1262 (3)		0.0			RSD (20)	
Aroclor-1262 (4)		0.0			RSD (20)	
Aroclor 1268		0.0			RSD (20)	
Aroclor-1268 (1)		0.0			RSD (20)	
Aroclor-1268 (2)		0.0			RSD (20)	
Aroclor-1268 (3)		0.0			RSD (20)	
Aroclor-1268 (4)		0.0			RSD (20)	
Decachlorobiphenyl	0.7333327	8.6			RSD (20)	
Tetrachlorometaxylene	1.133671	3.2			RSD (20)	

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (2):	ZB35

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	**RRF**	Conc	RRF	Conc	RRF	Conc	**RRF**	Conc	**RRF**
Aroclor 1016 [2C]	250	4.636996E-02	20	4.892746E-02	50	4.983417E-02	1000	4.130781E-02	100	4.955636E-02	500	4.439044E-02
Aroclor-1016 (1) [2C]	250	4.084306E-02	20	4.420829E-02	50	4.265547E-02	1000	3.510686E-02	100	0.0443387	500	3.826546E-02
Aroclor-1016 (2) [2C]	250	8.779336E-02	20	9.126619E-02	50	9.396419E-02	1000	7.840925E-02	100	9.357078E-02	500	8.428834E-02
Aroclor-1016 (3) [2C]	250	3.650991E-02	20	4.176802E-02	50	4.245186E-02	1000	3.207576E-02	100	3.977512E-02	500	3.472696E-02
Aroclor-1016 (4) [2C]	250	2.033353E-02	20	1.846735E-02	50	2.026517E-02	1000	1.963937E-02	100	2.054085E-02	500	0.020281
Aroclor 1260 [2C]	250	6.221729E-02	20	0.0650374	50	6.381838E-02	1000	5.557609E-02	100	6.547338E-02	500	5.844879E-02
Aroclor-1260 (1) [2C]	250	4.226259E-02	20	4.530508E-02	50	4.502141E-02	1000	3.753653E-02	100	0.0443443	500	3.890007E-02
Aroclor-1260 (2) [2C]	250	0.1084108	20	0.1102753	50	0.109287	1000	9.364812E-02	100	0.1132315	500	0.1009332
Aroclor-1260 (3) [2C]	250	0.0279644	20	2.937953E-02	50	2.834399E-02	1000	2.696653E-02	100	2.956699E-02	500	2.708248E-02
Aroclor-1260 (4) [2C]	250	7.023139E-02	20	7.518967E-02	50	7.262117E-02	1000	0.0641532	100	0.0747507	500	6.687944E-02
Decachlorobiphenyl [2C]	40	1.127762	3.2	1.199521	8	1.131904	160	1.086775	16	1.175985	80	1.092964
Tetrachlorometaxylene [2C]	40	1.103254	3.2	1.151553	8	1.074022	160	1.032691	16	1.152616	80	1.06551

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (2):	ZB35

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor 1221 [2C]							250	0.0137578				
Aroclor-1221 (1) [2C]							250	6.751325E-03				
Aroclor-1221 (2) [2C]							250	1.286764E-02				
Aroclor-1221 (3) [2C]							250	2.165445E-02				
Aroclor 1232 [2C]									250	1.828151E-02		
Aroclor-1232 (1) [2C]									250	3.890243E-03		
Aroclor-1232 (2) [2C]									250	1.986677E-02		
Aroclor-1232 (3) [2C]									250	3.883859E-02		
Aroclor-1232 (4) [2C]									250	1.053044E-02		
Aroclor 1242 [2C]	250	3.919814E-02										
Aroclor-1242 (1) [2C]	250	3.385823E-02										
Aroclor-1242 (2) [2C]	250	7.187561E-02										
Aroclor-1242 (3) [2C]	250	2.318837E-02										
Aroclor-1242 (4) [2C]	250	2.787036E-02										
Aroclor 1248 [2C]			250	3.948755E-02								
Aroclor-1248 (1) [2C]			250	3.268192E-02								
Aroclor-1248 (2) [2C]			250	3.437347E-02								
Aroclor-1248 (3) [2C]			250	4.181202E-02								
Aroclor-1248 (4) [2C]			250	0.0490828								
Aroclor 1254 [2C]					250	6.380467E-02						
Aroclor-1254 (1) [2C]					250	5.157979E-02						
Aroclor-1254 (2) [2C]					250	4.146889E-02						
Aroclor-1254 (3) [2C]					250	8.913704E-02						
Aroclor-1254 (4) [2C]					250	0.092314						
Aroclor-1254 (5) [2C]					250	4.452362E-02						
Aroclor 1262 [2C]							250	6.566399E-02				
Aroclor-1262 (1) [2C]							250	6.082829E-02				
Aroclor-1262 (2) [2C]							250	5.268389E-02				

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (2):	ZB35

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor-1262 (3) [2C]							250	5.811375E-02				
Aroclor-1262 (4) [2C]							250	9.103002E-02				
Aroclor 1268 [2C]									250	0.1941199		
Aroclor-1268 (1) [2C]									250	0.1510112		
Aroclor-1268 (2) [2C]									250	0.1548399		
Aroclor-1268 (3) [2C]									250	5.741847E-02		
Aroclor-1268 (4) [2C]									250	0.4132099		

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (2):	ZB35

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Aroclor 1016 [2C]	4.673103E-02	7.3			RSD (20)	
Aroclor-1016 (1) [2C]	4.090297E-02	8.9			RSD (20)	
Aroclor-1016 (2) [2C]	8.821535E-02	6.9			RSD (20)	
Aroclor-1016 (3) [2C]	0.0378846	10.9			RSD (20)	
Aroclor-1016 (4) [2C]	1.992121E-02	3.9			RSD (20)	
Aroclor 1221 [2C]		0.0			RSD (20)	
Aroclor-1221 (1) [2C]		0.0			RSD (20)	
Aroclor-1221 (2) [2C]		0.0			RSD (20)	
Aroclor-1221 (3) [2C]		0.0			RSD (20)	
Aroclor 1232 [2C]		0.0			RSD (20)	
Aroclor-1232 (1) [2C]		0.0			RSD (20)	
Aroclor-1232 (2) [2C]		0.0			RSD (20)	
Aroclor-1232 (3) [2C]		0.0			RSD (20)	
Aroclor-1232 (4) [2C]		0.0			RSD (20)	
Aroclor 1242 [2C]		0.0			RSD (20)	
Aroclor-1242 (1) [2C]		0.0			RSD (20)	
Aroclor-1242 (2) [2C]		0.0			RSD (20)	
Aroclor-1242 (3) [2C]		0.0			RSD (20)	
Aroclor-1242 (4) [2C]		0.0			RSD (20)	
Aroclor 1248 [2C]		0.0			RSD (20)	
Aroclor-1248 (1) [2C]		0.0			RSD (20)	
Aroclor-1248 (2) [2C]		0.0			RSD (20)	
Aroclor-1248 (3) [2C]		0.0			RSD (20)	
Aroclor-1248 (4) [2C]		0.0			RSD (20)	
Aroclor 1254 [2C]		0.0			RSD (20)	
Aroclor-1254 (1) [2C]		0.0			RSD (20)	
Aroclor-1254 (2) [2C]		0.0			RSD (20)	
Aroclor-1254 (3) [2C]		0.0			RSD (20)	
Aroclor-1254 (4) [2C]		0.0			RSD (20)	
Aroclor-1254 (5) [2C]		0.0			RSD (20)	
Aroclor 1260 [2C]	6.176189E-02	6.4			RSD (20)	

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (2):	ZB35

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Aroclor-1260 (1) [2C]	4.222833E-02	7.8			RSD (20)	
Aroclor-1260 (2) [2C]	0.1059643	6.9			RSD (20)	
Aroclor-1260 (3) [2C]	2.821732E-02	3.9			RSD (20)	
Aroclor-1260 (4) [2C]	7.063759E-02	6.3			RSD (20)	
Aroclor 1262 [2C]		0.0			RSD (20)	
Aroclor-1262 (1) [2C]		0.0			RSD (20)	
Aroclor-1262 (2) [2C]		0.0			RSD (20)	
Aroclor-1262 (3) [2C]		0.0			RSD (20)	
Aroclor-1262 (4) [2C]		0.0			RSD (20)	
Aroclor 1268 [2C]		0.0			RSD (20)	
Aroclor-1268 (1) [2C]		0.0			RSD (20)	
Aroclor-1268 (2) [2C]		0.0			RSD (20)	
Aroclor-1268 (3) [2C]		0.0			RSD (20)	
Aroclor-1268 (4) [2C]		0.0			RSD (20)	
Decachlorobiphenyl [2C]	1.135818	3.9			RSD (20)	
Tetrachlorometaxylene [2C]	1.096608	4.4			RSD (20)	

Printed: 12/6/2022 9:25:24AM

ANALYSIS SEQUENCE

SKL0048

Instrument: ECD7 Element Column ID:
Calibration ID: FL00010

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	Comments
SKL0048-CAL1	0.25PPM AR1660	QC		1	K006954	K006953		
SKL0048-CAL2	0.02PPM AR1660	QC		2	K010070	K006953		
SKL0048-CAL3	0.05PPM AR1660	QC		3	K010069	K006953		
SKL0048-CAL4	1PPM AR1660	QC		4	K006741	K006953		
SKL0048-CAL5	0.1PPM AR1660	QC		5	K010068	K006953		
SKL0048-CAL6	0.5PPM AR1660	QC		6	K010067	K006953		
SKL0048-CAL7	0.25PPM AR1242	QC		7	K006955	K006953		
SKL0048-CAL8	0.25PPM AR1248	QC		8	K006956	K006953		
SKL0048-CAL9	0.25PPM AR1254	QC		9	K006957	K006953		
SKL0048-CALA	0.25PPM AR2162	QC		10	K010071	K006953		
SKL0048-CALB	0.25PPM AR3268	QC		11	K010072	K006953		
SKL0048-SCV1	AR1660SCV1	QC		12	K007655	K006953		
SKL0048-SCV2	AR1242SCV2	QC		13	K007656	K006953		
SKL0048-SCV3	AR1248SCV3	QC		14	K007657	K006953		
SKL0048-SCV4	AR1254SCV4	QC		15	K007658	K006953		
SKL0048-SCV5	AR2162SCV5	QC		16	K007659	K006953		
SKL0048-SCV6	AR3268SCV6	QC		17	K007660	K006953		

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221203.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	03-DEC-2022 17:58	12032210ECD7.D	1	IB	
2	03-DEC-2022 18:19	12032211ECD7.D	1	0.25PPAR1660	
3	03-DEC-2022 18:40	12032212ECD7.D	1	0.02PPAR1660	
4	03-DEC-2022 19:01	12032213ECD7.D	1	0.05PPAR1660	
5	03-DEC-2022 19:23	12032214ECD7.D	1	1PPMAR1660	
6	03-DEC-2022 19:44	12032215ECD7.D	1	0.1PPMAR1660	
7	03-DEC-2022 20:05	12032216ECD7.D	1	0.5PPMAR1660	
8	03-DEC-2022 20:26	12032217ECD7.D	1	AR1242	
9	03-DEC-2022 20:48	12032218ECD7.D	1	AR1248	
10	03-DEC-2022 21:09	12032219ECD7.D	1	AR1254	
11	03-DEC-2022 21:30	12032220ECD7.D	1	AR2162	
12	03-DEC-2022 21:52	12032221ECD7.D	1	AR3268	
13	03-DEC-2022 22:13	12032222ECD7.D	1	AR1660SCV1	
14	03-DEC-2022 22:34	12032223ECD7.D	1	AR1242SCV2	
15	03-DEC-2022 22:55	12032224ECD7.D	1	AR1248SCV3	
16	03-DEC-2022 23:17	12032225ECD7.D	1	AR1254SCV4	
17	03-DEC-2022 23:38	12032226ECD7.D	1	AR2162SCV5	
18	03-DEC-2022 23:59	12032227ECD7.D	1	AR3268SCV6	
19	04-DEC-2022 00:20	12032228ECD7.D	1	0.1 PPM DDTS	
20	04-DEC-2022 00:42	12032229ECD7.D	1	DDT BD	
21	04-DEC-2022 01:03	12032230ECD7.D	1	AR1254ICV1	
22	04-DEC-2022 01:24	12032231ECD7.D	1	AR1660ICV2	
23	04-DEC-2022 01:46	12032232ECD7.D	1	BKK0834-BLK1	
24	04-DEC-2022 02:07	12032233ECD7.D	1	BKK0834-BS1	
25	04-DEC-2022 02:28	12032234ECD7.D	1	BKK0834-BSD1	
26	04-DEC-2022 02:49	12032235ECD7.D	1	22K0523-01	
27	04-DEC-2022 03:11	12032236ECD7.D	1	22K0525-01	
28	04-DEC-2022 03:32	12032237ECD7.D	1	BKK0374-BLK1	
29	04-DEC-2022 03:53	12032238ECD7.D	1	BKK0374-BS1	
30	04-DEC-2022 04:15	12032239ECD7.D	1	BKK0374-BSD1	
31	04-DEC-2022 04:36	12032240ECD7.D	1	22K0161-01	
32	04-DEC-2022 04:57	12032241ECD7.D	1	AR1248CCV1	
33	04-DEC-2022 05:18	12032242ECD7.D	1	AR1660CCV2	
34	04-DEC-2022 05:40	12032243ECD7.D	1	BKL0017-BLK1	
35	04-DEC-2022 06:01	12032244ECD7.D	1	BKL0017-BS1	
36	04-DEC-2022 06:22	12032245ECD7.D	1	BKL0017-BSD1	
37	04-DEC-2022 06:44	12032246ECD7.D	1	22J0139-01	
38	04-DEC-2022 07:05	12032247ECD7.D	1	BKK0383-BLK1	
39	04-DEC-2022 07:26	12032248ECD7.D	1	BKK0383-BS1	
40	04-DEC-2022 07:47	12032249ECD7.D	1	BKK0383-BSD	
41	04-DEC-2022 08:09	12032250ECD7.D	1	22K0075-01	
42	04-DEC-2022 08:30	12032251ECD7.D	1	BKK00803-BLK1	
43	04-DEC-2022 08:51	12032252ECD7.D	1	BKK00803-BS1	
44	04-DEC-2022 09:13	12032253ECD7.D	1	BKK00803-BSD1	
45	04-DEC-2022 09:34	12032254ECD7.D	1	22K0511-01	
46	04-DEC-2022 09:55	12032255ECD7.D	1	AR1242CCV3	
47	04-DEC-2022 10:17	12032256ECD7.D	1	AR1660CCV4	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221203.b

Instrument: ecd7.i Date: 03-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
1758	12032210ECD7.D	IB	1	NO MANUAL INTEGRATION
1819	12032211ECD7.D	0.25PPAR1660	1	NO MANUAL INTEGRATION
1840	12032212ECD7.D	0.02PPAR1660	1	NO MANUAL INTEGRATION
1901	12032213ECD7.D	0.05PPAR1660	1	NO MANUAL INTEGRATION
1923	12032214ECD7.D	1PPMAR1660	1	NO MANUAL INTEGRATION
1944	12032215ECD7.D	0.1PPMAR1660	1	NO MANUAL INTEGRATION
2005	12032216ECD7.D	0.5PPMAR1660	1	NO MANUAL INTEGRATION
2026	12032217ECD7.D	AR1242	1	Aroclor-1242,
2048	12032218ECD7.D	AR1248	1	NO MANUAL INTEGRATION
2109	12032219ECD7.D	AR1254	1	NO MANUAL INTEGRATION
2130	12032220ECD7.D	AR2162	1	NO MANUAL INTEGRATION
2152	12032221ECD7.D	AR3268	1	NO MANUAL INTEGRATION
2213	12032222ECD7.D	AR1660SCV1	1	NO MANUAL INTEGRATION
2234	12032223ECD7.D	AR1242SCV2	1	NO MANUAL INTEGRATION
2255	12032224ECD7.D	AR1248SCV3	1	NO MANUAL INTEGRATION
2317	12032225ECD7.D	AR1254SCV4	1	NO MANUAL INTEGRATION
2338	12032226ECD7.D	AR2162SCV5	1	NO MANUAL INTEGRATION

Instrument: ecd7.i Date: 03-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
2359	12032227ECD7.D	AR3268SCV6	1	NO MANUAL INTEGRATION

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032210ECD7.D
Data file 2: /221203.b/221203.b/12032210ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: IB
Client ID:
Injection Date: 03-DEC-2022 17:58
Report Date: 12/05/2022 13:27
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.001	239778	5.713	-0.000	128576	38.5	38.5	0.1	Tetrachloro-m-xylene
13.907	-0.001	273387	14.135	-0.002	193829	39.5	39.9	1.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	439478	-1.8
Hexabromobiphenyl	798898	755658	-5.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	243327	-2.3
Hexabromobiphenyl	362541	342503	-5.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	ZB5 Col Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.936 - 13.808) = 14711 Col1 Total PCB = 0.0 ppm*

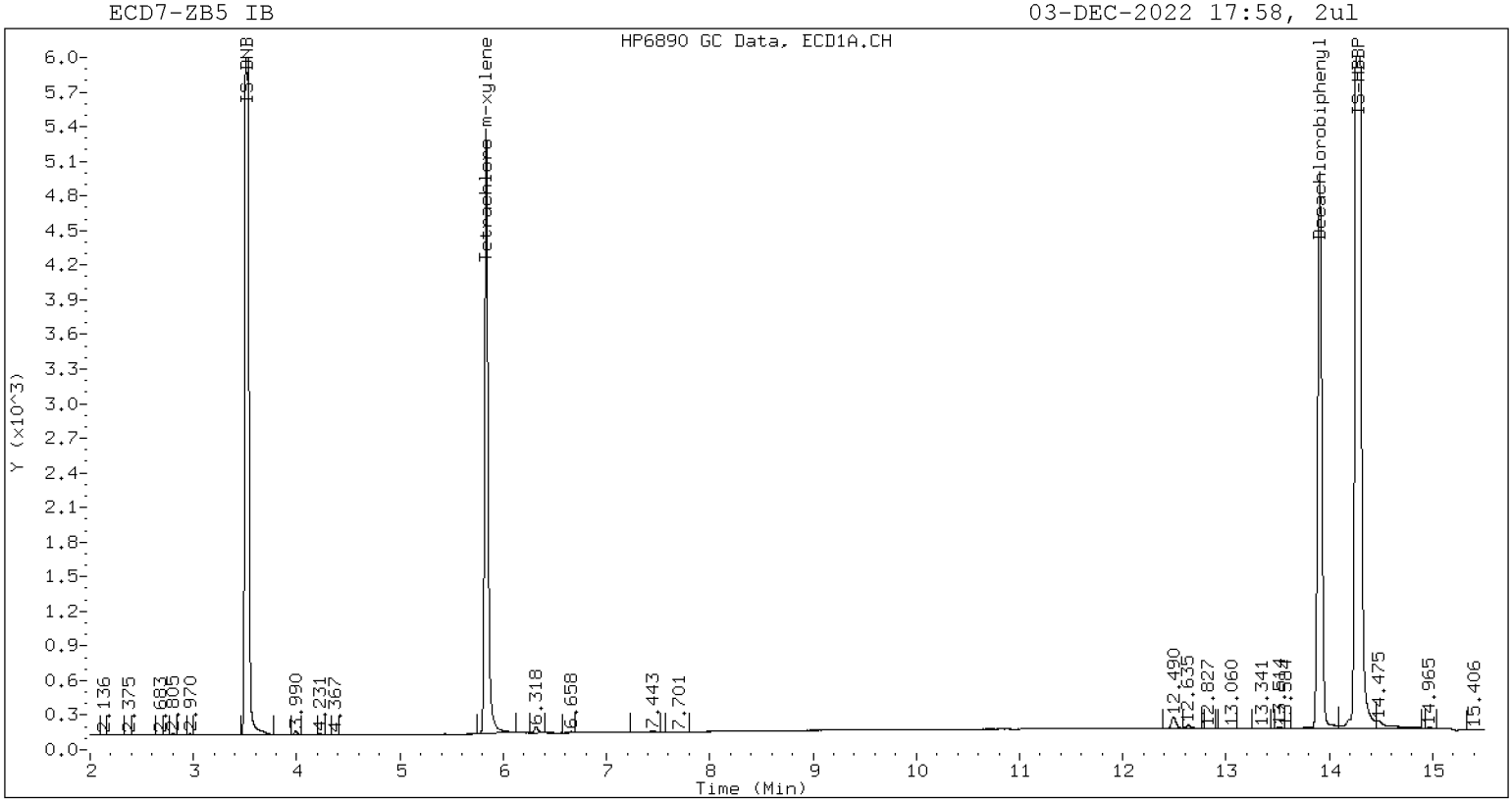
Total PCB Area Col2 (5.936 - 13.808) = 6305 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

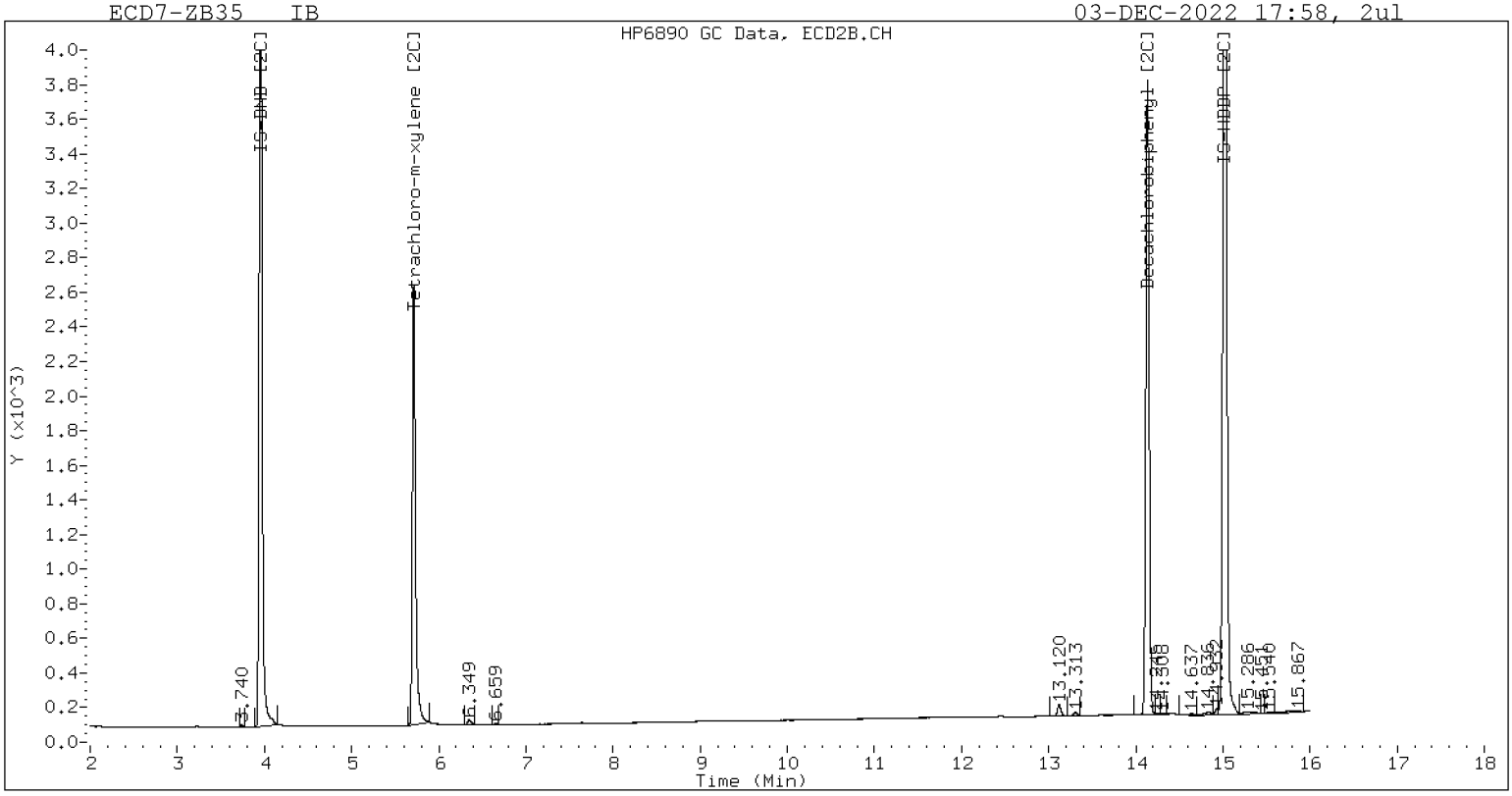
PCB Dual Column Chromatograms

ECD7-ZB5 IB 03-DEC-2022 17:58, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 IB 03-DEC-2022 17:58, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032211ECD7.D
Data file 2: /221203.b/221203.b/12032211ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPAR1660
Client ID:
Injection Date: 03-DEC-2022 18:19
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.000	255851	5.713	-0.000	137407	40.3	40.2	0.2	Tetrachloro-m-xylene
13.908	-0.001	282218	14.135	-0.001	204430	38.5	39.7	3.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	447645	0.0
Hexabromobiphenyl	798898	798898	0.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	249094	0.0
Hexabromobiphenyl	362541	362541	0.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.293	0.001	37624	252.0	1	7.277	0.002	31793	249.6
Aroclor-1016	2	7.679	0.005	121929	252.9	2	7.873	0.002	68340	248.8
Aroclor-1016	3	7.813	0.003	53937	246.9	3	8.072	0.002	28420	240.9
Aroclor-1016	4	8.426	0.002	35116	252.1	4	8.243	0.002	15828	255.2
Total Col1Ave (4 peaks):					251.0	Total Col2Ave (4 peaks):				248.6 RPD = 1
Corrected Ave (3 peaks):					250.3	Corrected Ave (3 peaks):				246.5 RPD = 2
CalAmt %D:					0.4	CalAmt %D:				-0.5
Aroclor-1260	1	11.062	0.001	73858	254.0	1	11.670	0.001	47881	250.2
Aroclor-1260	2	11.378	0.000	76426	254.1	2	11.933	0.000	122823	255.8
Aroclor-1260	3	11.752	0.002	198339	251.0	3	12.452	0.001	31682	247.8
Aroclor-1260	4	12.156	0.002	101327	251.8	4	12.518	0.001	79568	248.6
Aroclor-1260	5	12.262	0.002	41048	249.2	NS	---			----
Total Col1Ave (5 peaks):					252.0	Total Col2Ave (4 peaks):				250.6 RPD = 1
Corrected Ave (4 peaks):					251.5	Corrected Ave (3 peaks):				248.8 RPD = 1
CalAmt %D:					0.8	CalAmt %D:				0.2

Total PCB Area Col1 (5.936 - 13.808) = 2139467 Col1 Total PCB = 0.4 ppm*

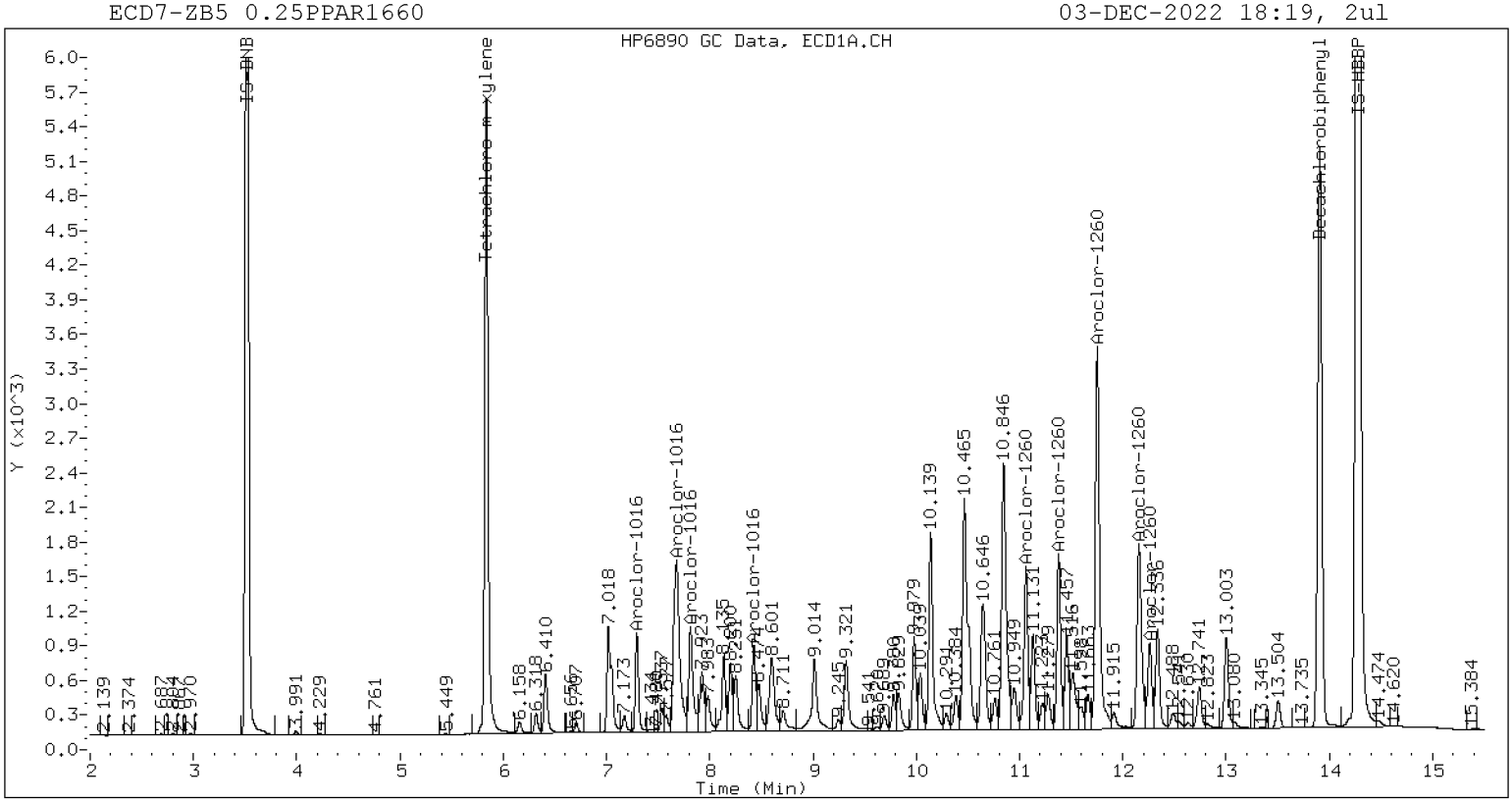
Total PCB Area Col2 (5.936 - 13.808) = 1168134 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

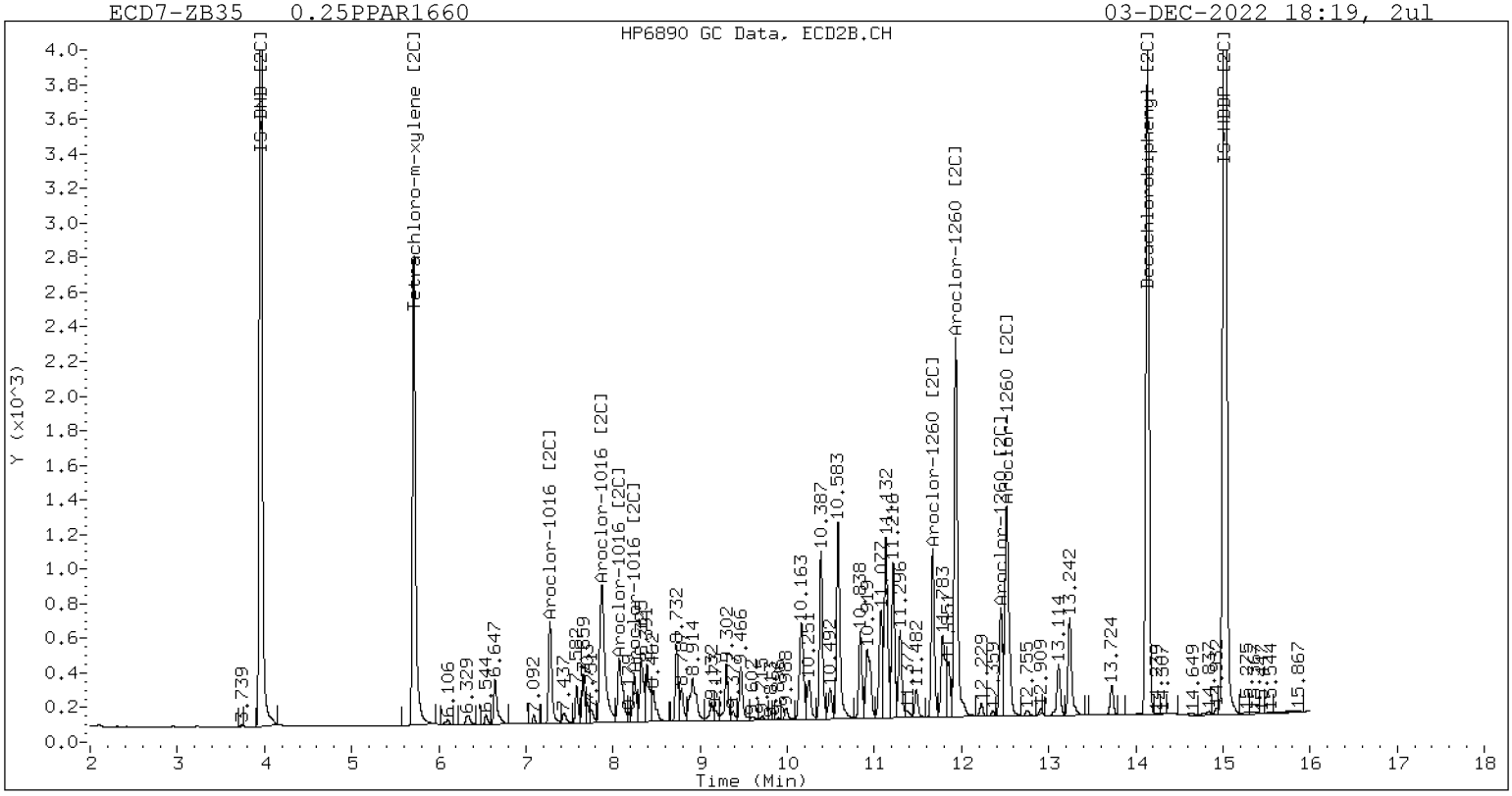
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPAR1660 03-DEC-2022 18:19, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPAR1660 03-DEC-2022 18:19, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032212ECD7.D
Data file 2: /221203.b/221203.b/12032212ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.02PPAR1660
Client ID:
Injection Date: 03-DEC-2022 18:40
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.001	21148	5.713	-0.000	11703	3.3	3.4	2.8	Tetrachloro-m-xylene
13.907	-0.002	27903	14.135	-0.002	17860	3.7	3.4	7.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	456831	2.1
Hexabromobiphenyl	798898	833597	4.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	254070	2.0
Hexabromobiphenyl	362541	372232	2.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.294	0.002	3234	21.2	1	7.276	0.001	2808	21.6
Aroclor-1016	2	7.687	0.013	10166	20.7	2	7.879	0.009	5797	20.7
Aroclor-1016	3	7.819	0.009	4988	22.4	3	8.077	0.007	2653	22.1
Aroclor-1016	4	8.430	0.006	2807	19.7	4	8.249	0.008	1173	18.5
Total Col1Ave (4 peaks):					21.0	Total Col2Ave (4 peaks):				20.7 RPD = 1
Corrected Ave (3 peaks):					20.5	Corrected Ave (3 peaks):				20.3 RPD = 1
CalAmt %D:					5.0	CalAmt %D:				3.6
Aroclor-1260	1	11.066	0.004	6255	20.6	1	11.672	0.003	4216	21.5
Aroclor-1260	2	11.382	0.004	6329	20.2	2	11.937	0.005	10262	20.8
Aroclor-1260	3	11.758	0.008	16621	20.2	3	12.453	0.002	2734	20.8
Aroclor-1260	4	12.162	0.008	8146	19.4	4	12.521	0.004	6997	21.3
Aroclor-1260	5	12.264	0.004	3406	19.8	NS	---			----
Total Col1Ave (5 peaks):					20.0	Total Col2Ave (4 peaks):				21.1 RPD = 5
Corrected Ave (4 peaks):					19.9	Corrected Ave (3 peaks):				21.0 RPD = 5
CalAmt %D:					0.2	CalAmt %D:				5.5

Total PCB Area Col1 (5.936 - 13.808) = 188011 Col1 Total PCB = 0.0 ppm*

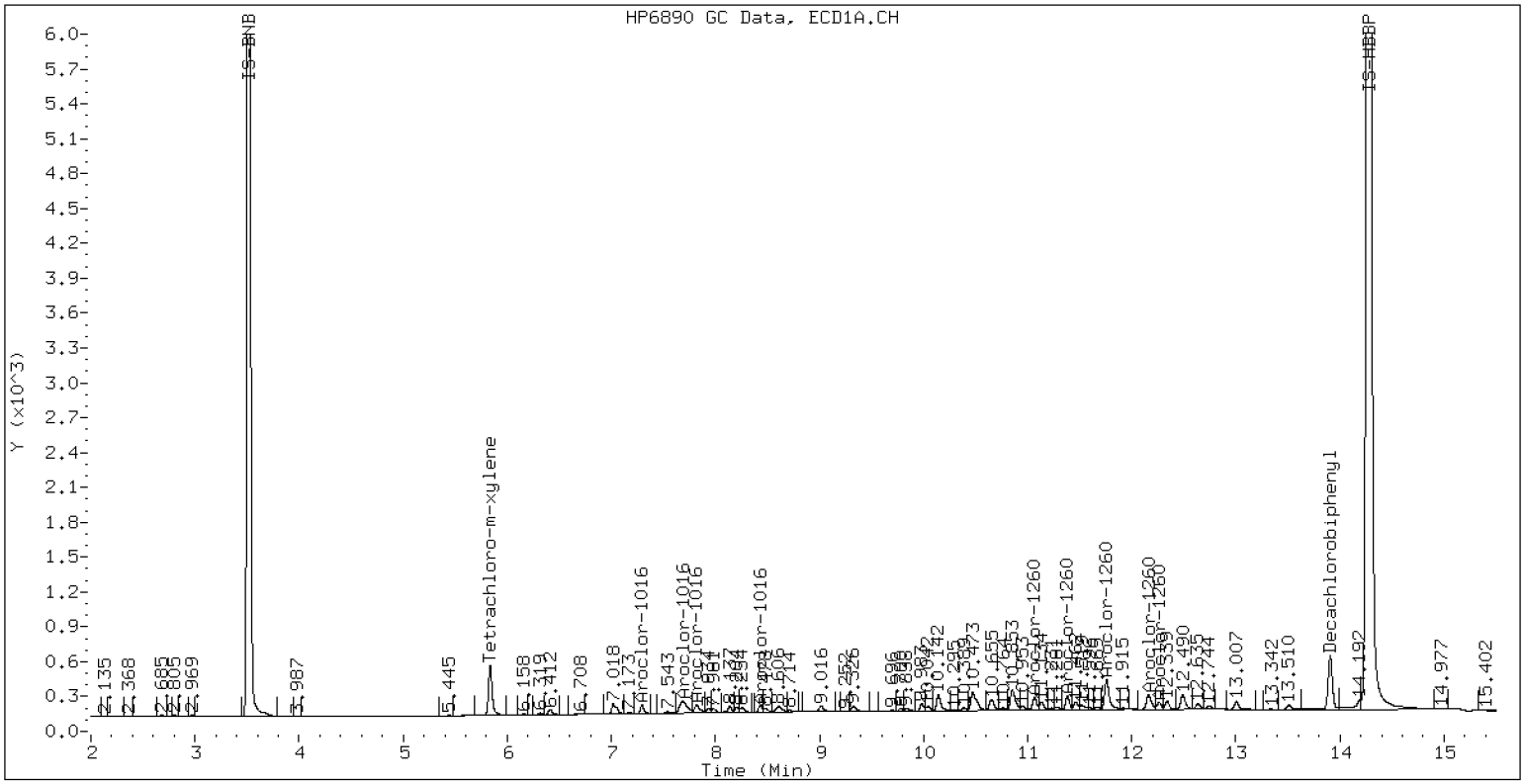
Total PCB Area Col2 (5.936 - 13.808) = 100527 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

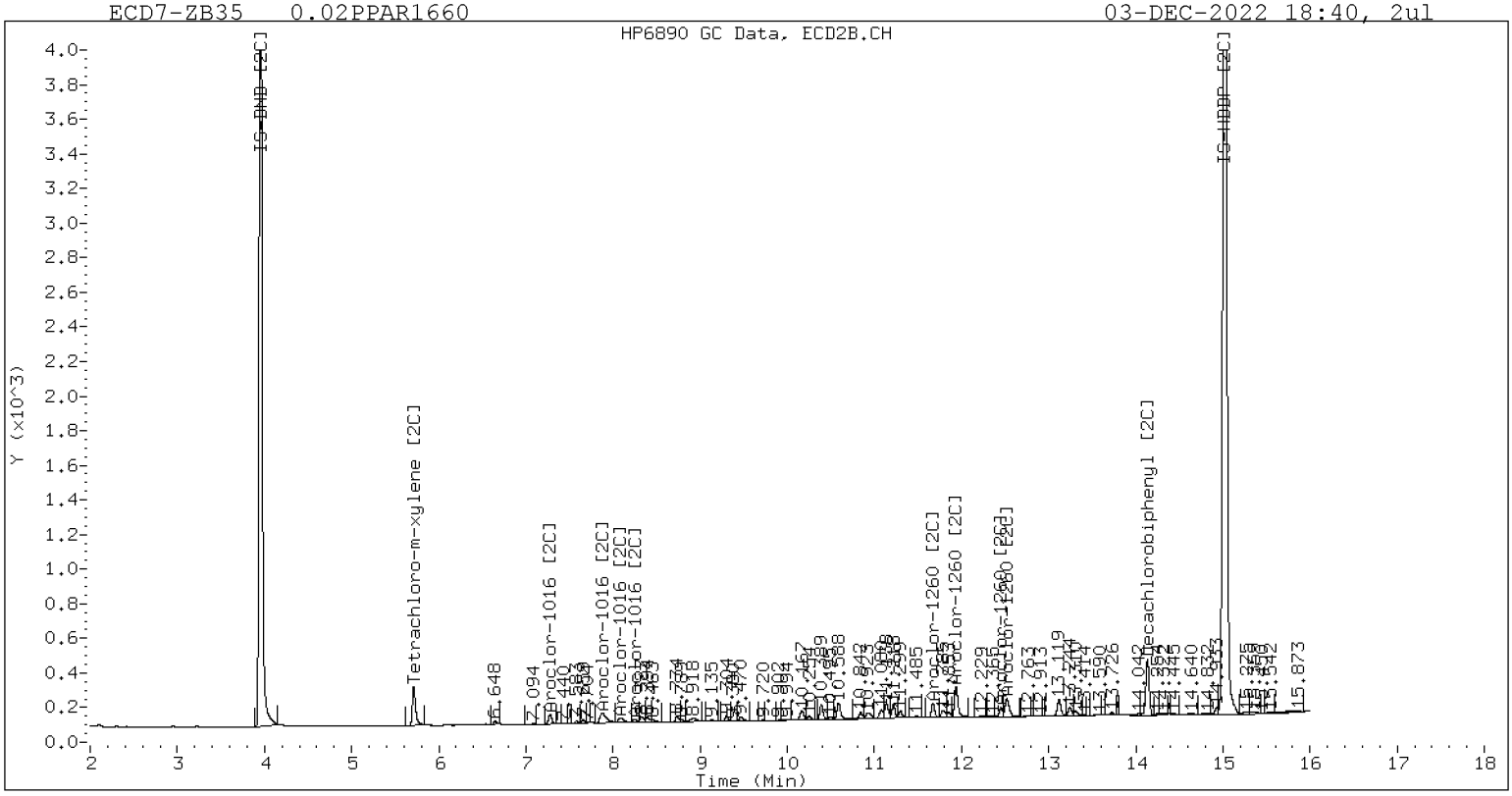
PCB Dual Column Chromatograms

ECD7-ZB5 0.02PPAR1660 03-DEC-2022 18:40, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.02PPAR1660 03-DEC-2022 18:40, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032213ECD7.D
Data file 2: /221203.b/221203.b/12032213ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.05PPAR1660
Client ID:
Injection Date: 03-DEC-2022 19:01
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.000	51078	5.713	-0.000	27008	8.0	7.8	1.5	Tetrachloro-m-xylene
13.907	-0.001	63325	14.137	-0.000	42829	8.2	8.0	3.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	453269	1.3
Hexabromobiphenyl	798898	840633	5.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	251466	1.0
Hexabromobiphenyl	362541	378380	4.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.294	0.002	7743	51.2	1	7.277	0.002	6704	52.1
Aroclor-1016	2	7.686	0.012	24543	50.3	2	7.879	0.008	14768	53.3
Aroclor-1016	3	7.818	0.008	12052	54.5	3	8.078	0.007	6672	56.0
Aroclor-1016	4	8.429	0.005	7291	51.7	4	8.249	0.007	3185	50.9
Total Col1Ave (4 peaks):					51.9	Total Col2Ave (4 peaks):				53.1 RPD = 2
Corrected Ave (3 peaks):					51.1	Corrected Ave (3 peaks):				52.1 RPD = 2
CalAmt %D:					3.8	CalAmt %D:				6.1
Aroclor-1260	1	11.066	0.004	15578	50.9	1	11.673	0.003	10647	53.3
Aroclor-1260	2	11.382	0.005	16010	50.6	2	11.937	0.004	25845	51.6
Aroclor-1260	3	11.757	0.007	42278	50.8	3	12.454	0.002	6703	50.2
Aroclor-1260	4	12.160	0.006	20971	49.5	4	12.520	0.004	17174	51.4
Aroclor-1260	5	12.263	0.004	8785	50.7	NS	---			----
Total Col1Ave (5 peaks):					50.5	Total Col2Ave (4 peaks):				51.6 RPD = 2
Corrected Ave (4 peaks):					50.4	Corrected Ave (3 peaks):				51.1 RPD = 1
CalAmt %D:					1.0	CalAmt %D:				3.3

Total PCB Area Col1 (5.936 - 13.808) = 457627 Col1 Total PCB = 0.1 ppm*

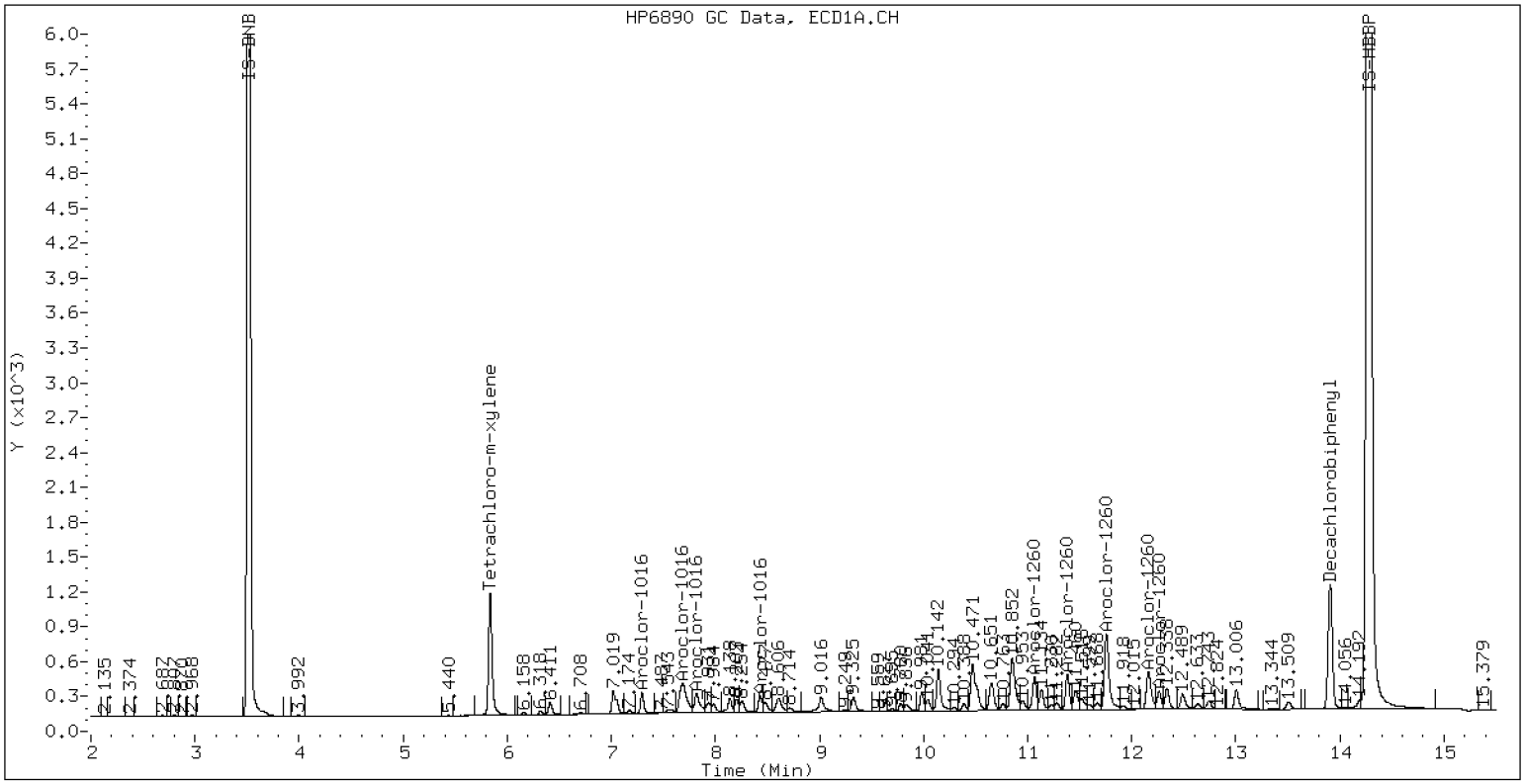
Total PCB Area Col2 (5.936 - 13.808) = 253240 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

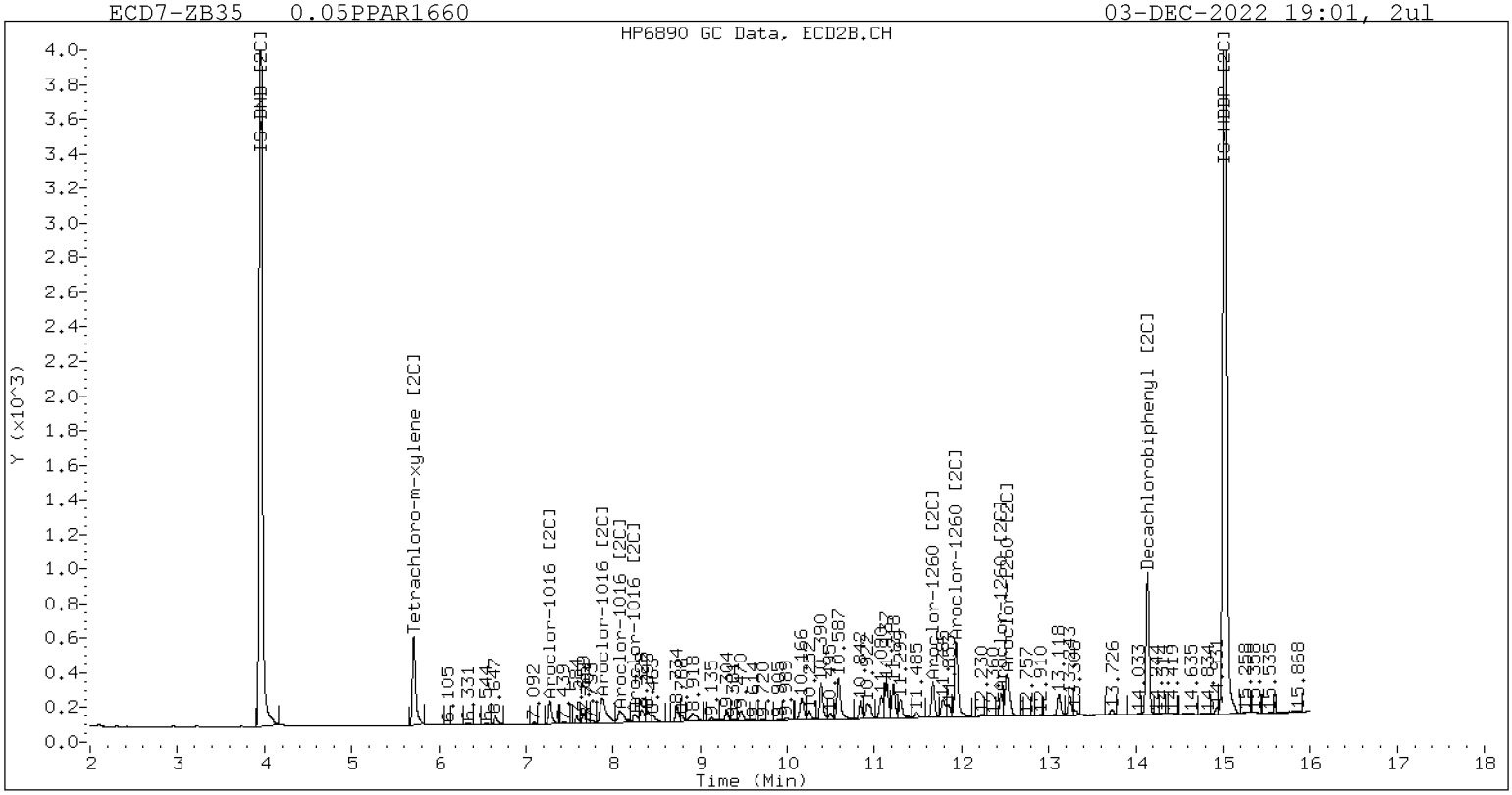
PCB Dual Column Chromatograms

ECD7-ZB5 0.05PPAR1660 03-DEC-2022 19:01, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.05PPAR1660 03-DEC-2022 19:01, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032214ECD7.D
Data file 2: /221203.b/221203.b/12032214ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 1PPMAR1660
Client ID:
Injection Date: 03-DEC-2022 19:23
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.001	1010529	5.712	-0.002	531708	152.6	150.7	1.3	Tetrachloro-m-xylene
13.908	-0.001	1103073	14.137	-0.000	836962	144.8	153.1	5.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	467179	4.4
Hexabromobiphenyl	798898	830915	4.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	257438	3.3
Hexabromobiphenyl	362541	385067	6.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.291	-0.001	135017	866.4	1	7.276	0.001	112973	858.3
Aroclor-1016	2	7.671	-0.003	458351	911.0	2	7.869	-0.001	252319	888.8
Aroclor-1016	3	7.807	-0.003	183320	804.0	3	8.068	-0.002	103219	846.7
Aroclor-1016	4	8.423	-0.001	135184	930.1	4	8.239	-0.002	63199	985.9
Total Col1Ave (4 peaks):					877.9	Total Col2Ave (4 peaks):				894.9 RPD = 2
Corrected Ave (3 peaks):					860.5	Corrected Ave (3 peaks):				864.6 RPD = 0
CalAmt %D:					-12.2	CalAmt %D:				-10.5
Aroclor-1260	1	11.058	-0.003	277616	917.9	1	11.668	-0.002	180676	888.9
Aroclor-1260	2	11.375	-0.002	293627	938.6	2	11.930	-0.002	450760	883.8
Aroclor-1260	3	11.748	-0.002	769872	936.7	3	12.449	-0.002	129799	955.7
Aroclor-1260	4	12.151	-0.003	405939	969.8	4	12.514	-0.002	308791	908.2
Aroclor-1260	5	12.259	-0.001	161370	941.8	NS	---			----
Total Col1Ave (5 peaks):					941.0	Total Col2Ave (4 peaks):				909.1 RPD = 3
Corrected Ave (4 peaks):					933.7	Corrected Ave (3 peaks):				893.6 RPD = 4
CalAmt %D:					-5.9	CalAmt %D:				-9.1

Total PCB Area Col1 (5.936 - 13.808) = 7995465 Col1 Total PCB = 1.5 ppm*

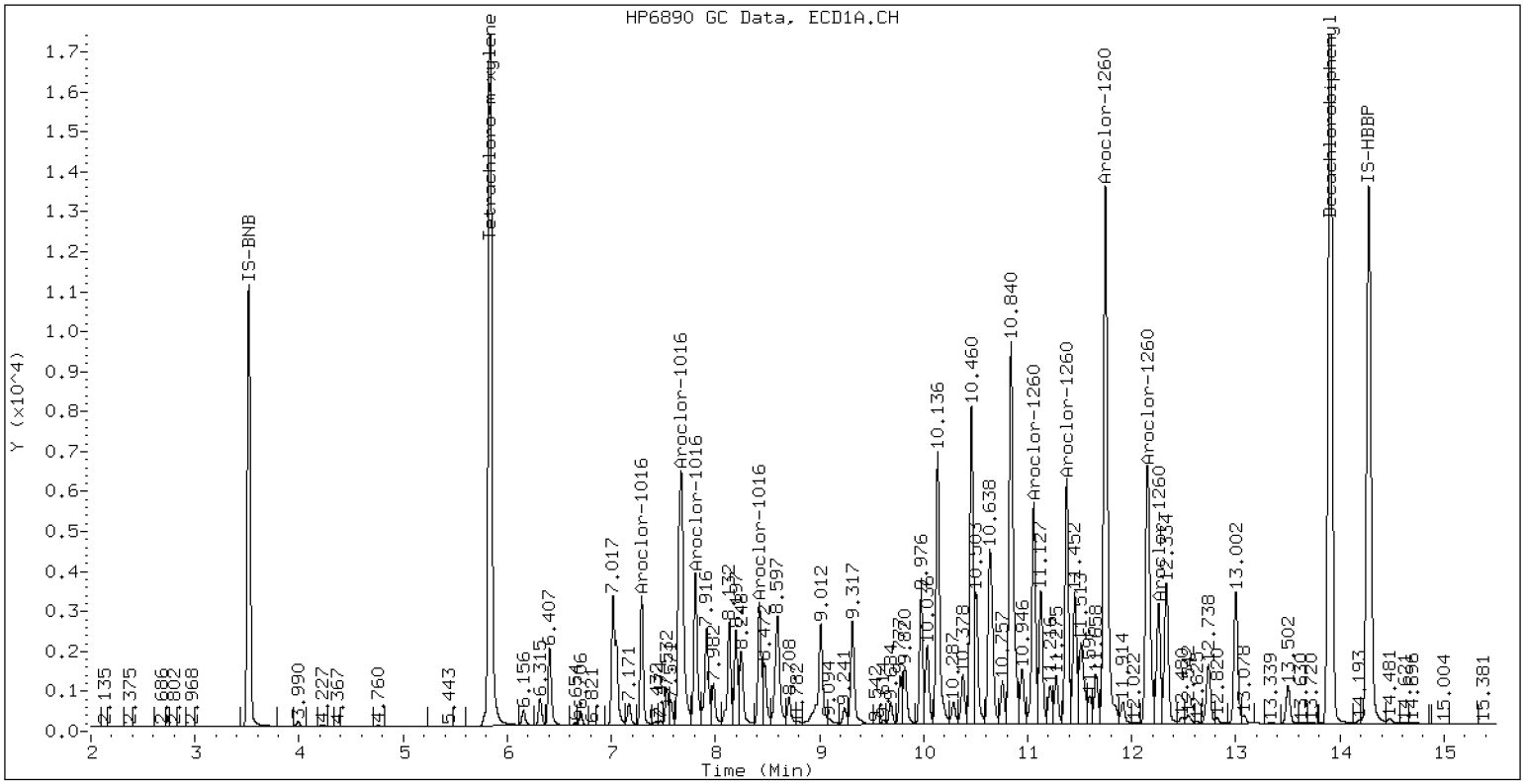
Total PCB Area Col2 (5.936 - 13.808) = 4426537 Col2 Total PCB = 2.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

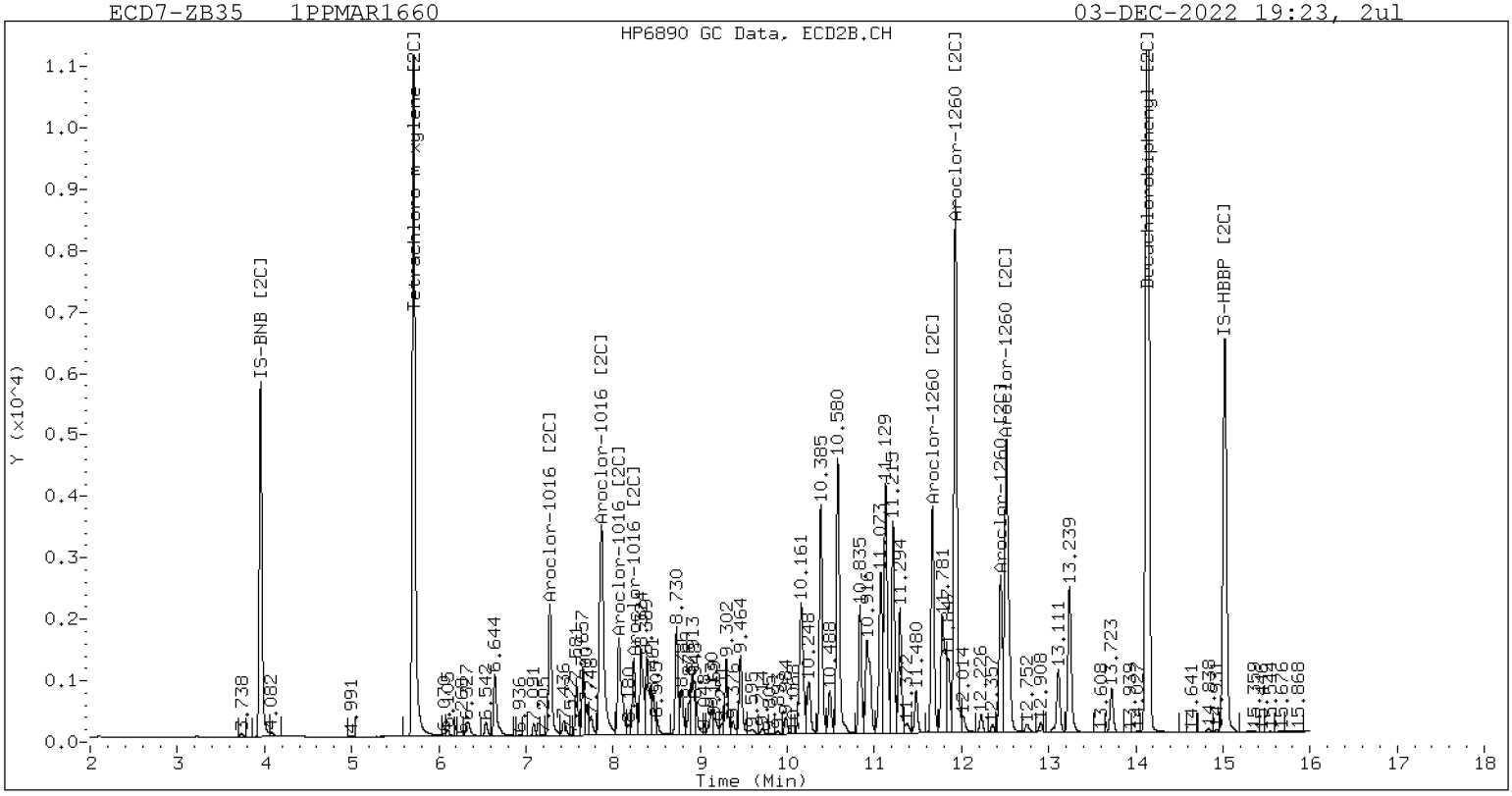
PCB Dual Column Chromatograms

ECD7-ZB5 1PPMAR1660 03-DEC-2022 19:23, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 1PPMAR1660 03-DEC-2022 19:23, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032215ECD7.D
Data file 2: /221203.b/221203.b/12032215ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.1PPMAR1660
Client ID:
Injection Date: 03-DEC-2022 19:44
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.000	108416	5.713	-0.000	58717	16.7	16.8	0.6	Tetrachloro-m-xylene
13.907	-0.002	126876	14.136	-0.001	91231	16.5	16.6	0.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	457669	2.2
Hexabromobiphenyl	798898	837264	4.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	254712	2.3
Hexabromobiphenyl	362541	387892	7.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.293	0.001	16631	108.9	1	7.277	0.001	14117	108.4
Aroclor-1016	2	7.680	0.007	52058	105.6	2	7.876	0.006	29792	106.1
Aroclor-1016	3	7.816	0.006	24753	110.8	3	8.076	0.005	12664	105.0
Aroclor-1016	4	8.428	0.004	15027	105.5	4	8.247	0.006	6540	103.1
Total Col1Ave (4 peaks):					107.7	Total Col2Ave (4 peaks):				105.6 RPD = 2
Corrected Ave (3 peaks):					106.7	Corrected Ave (3 peaks):				104.7 RPD = 2
CalAmt %D:					7.7	CalAmt %D:				5.6
Aroclor-1260	1	11.064	0.003	31860	104.5	1	11.671	0.002	21501	105.0
Aroclor-1260	2	11.381	0.003	32914	104.4	2	11.935	0.003	54902	106.9
Aroclor-1260	3	11.756	0.006	88153	106.4	3	12.453	0.002	14336	104.8
Aroclor-1260	4	12.159	0.005	44477	105.5	4	12.520	0.004	36244	105.8
Aroclor-1260	5	12.262	0.002	18369	106.4	NS	---			----
Total Col1Ave (5 peaks):					105.4	Total Col2Ave (4 peaks):				105.6 RPD = 0
Corrected Ave (4 peaks):					105.2	Corrected Ave (3 peaks):				105.2 RPD = 0
CalAmt %D:					5.4	CalAmt %D:				5.6

Total PCB Area Col1 (5.936 - 13.808) = 933356 Col1 Total PCB = 0.2 ppm*

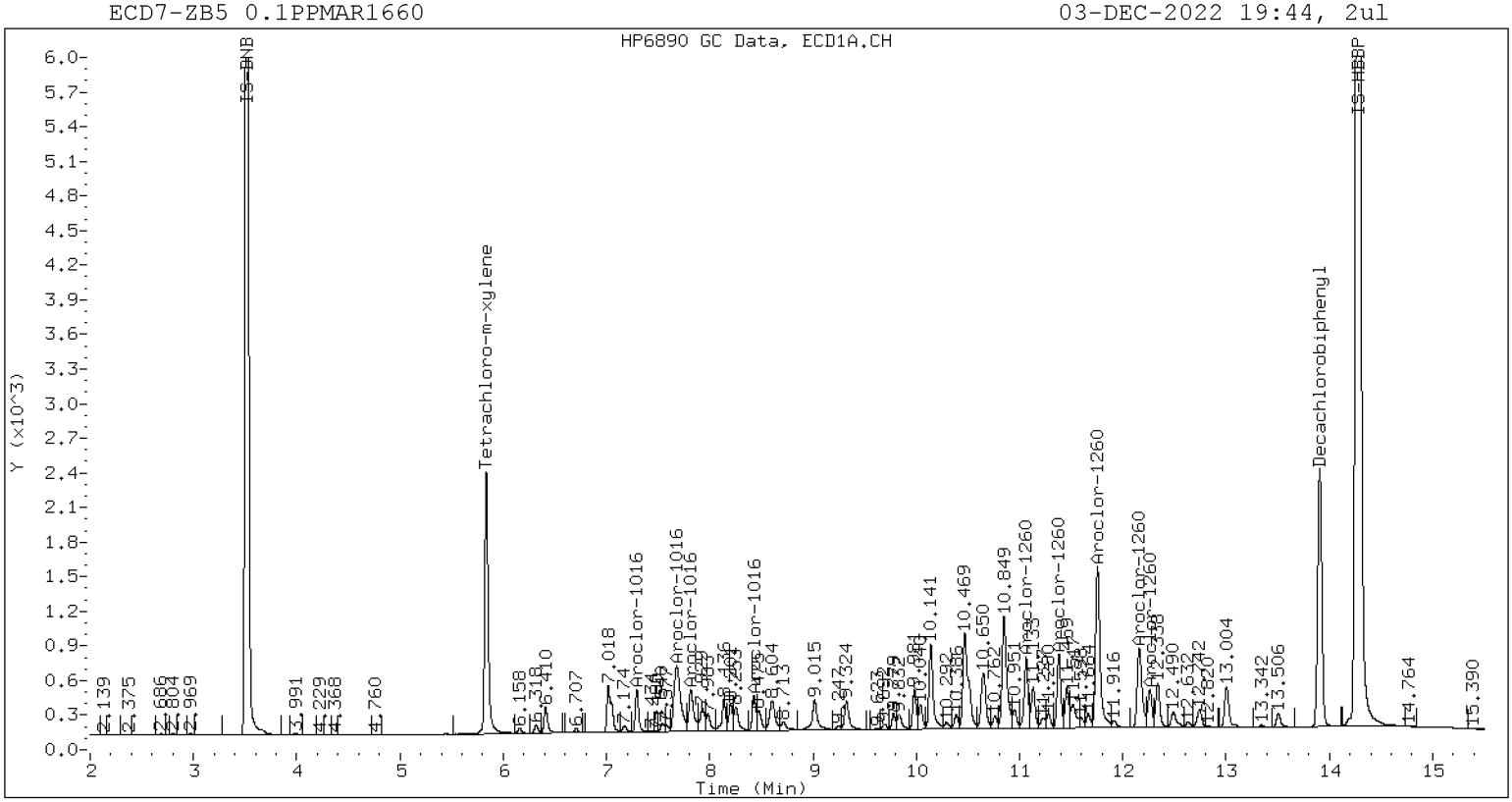
Total PCB Area Col2 (5.936 - 13.808) = 523507 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

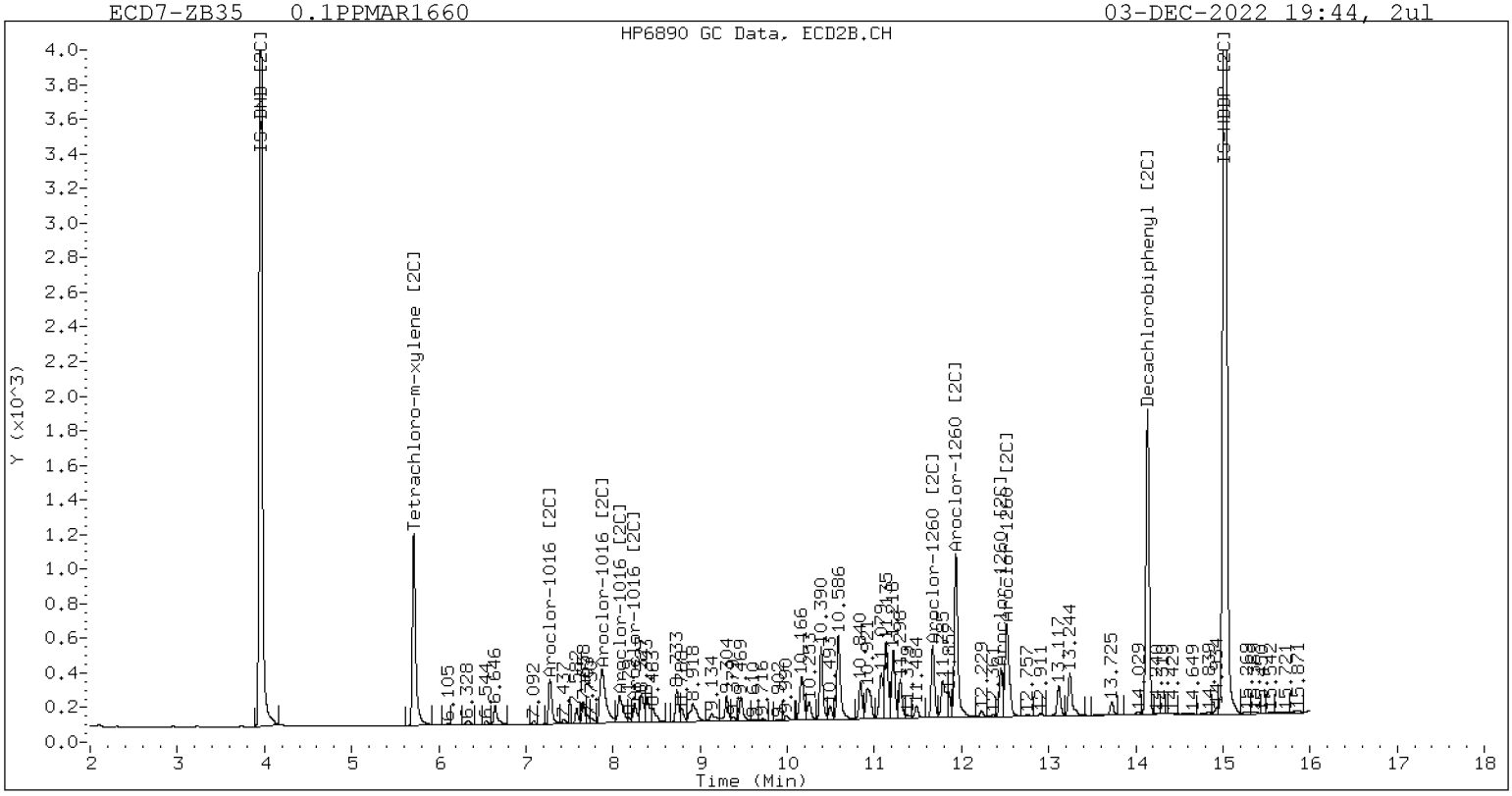
PCB Dual Column Chromatograms

ECD7-ZB5 0.1PPMAR1660 03-DEC-2022 19:44, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.1PPMAR1660 03-DEC-2022 19:44, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032216ECD7.D
Data file 2: /221203.b/221203.b/12032216ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.5PPMAR1660
Client ID:
Injection Date: 03-DEC-2022 20:05
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.835	-0.001	510310	5.711	-0.002	273850	78.2	77.7	0.7	Tetrachloro-m-xylene
13.908	-0.001	570893	14.137	-0.000	431489	74.4	77.0	3.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	460250	2.8
Hexabromobiphenyl	798898	837210	4.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	257013	3.2
Hexabromobiphenyl	362541	394788	8.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.292	0.000	73008	475.5	1	7.275	0.000	61467	467.8
Aroclor-1016	2	7.674	0.000	243498	491.2	2	7.870	0.000	135395	477.7
Aroclor-1016	3	7.810	0.000	100165	445.9	3	8.070	0.000	55783	458.3
Aroclor-1016	4	8.424	0.000	70493	492.3	4	8.241	0.000	32578	509.0
Total Col1Ave (4 peaks):					476.3	Total Col2Ave (4 peaks):				478.2 RPD = 0
Corrected Ave (3 peaks):					470.9	Corrected Ave (3 peaks):				467.9 RPD = 1
CalAmt %D:					-4.7	CalAmt %D:				-4.4
Aroclor-1260	1	11.062	0.000	148089	485.9	1	11.669	0.000	95983	460.6
Aroclor-1260	2	11.377	0.000	154542	490.3	2	11.933	0.000	249045	476.3
Aroclor-1260	3	11.750	0.000	401802	485.2	3	12.451	0.000	66824	479.9
Aroclor-1260	4	12.154	0.000	212604	504.1	4	12.517	0.000	165020	473.4
Aroclor-1260	5	12.260	0.000	85762	496.7	NS	---			----
Total Col1Ave (5 peaks):					492.5	Total Col2Ave (4 peaks):				472.5 RPD = 4
Corrected Ave (4 peaks):					489.5	Corrected Ave (3 peaks):				470.1 RPD = 4
CalAmt %D:					-1.5	CalAmt %D:				-5.5

Total PCB Area Col1 (5.936 - 13.808) = 4267475 Col1 Total PCB = 0.8 ppm*

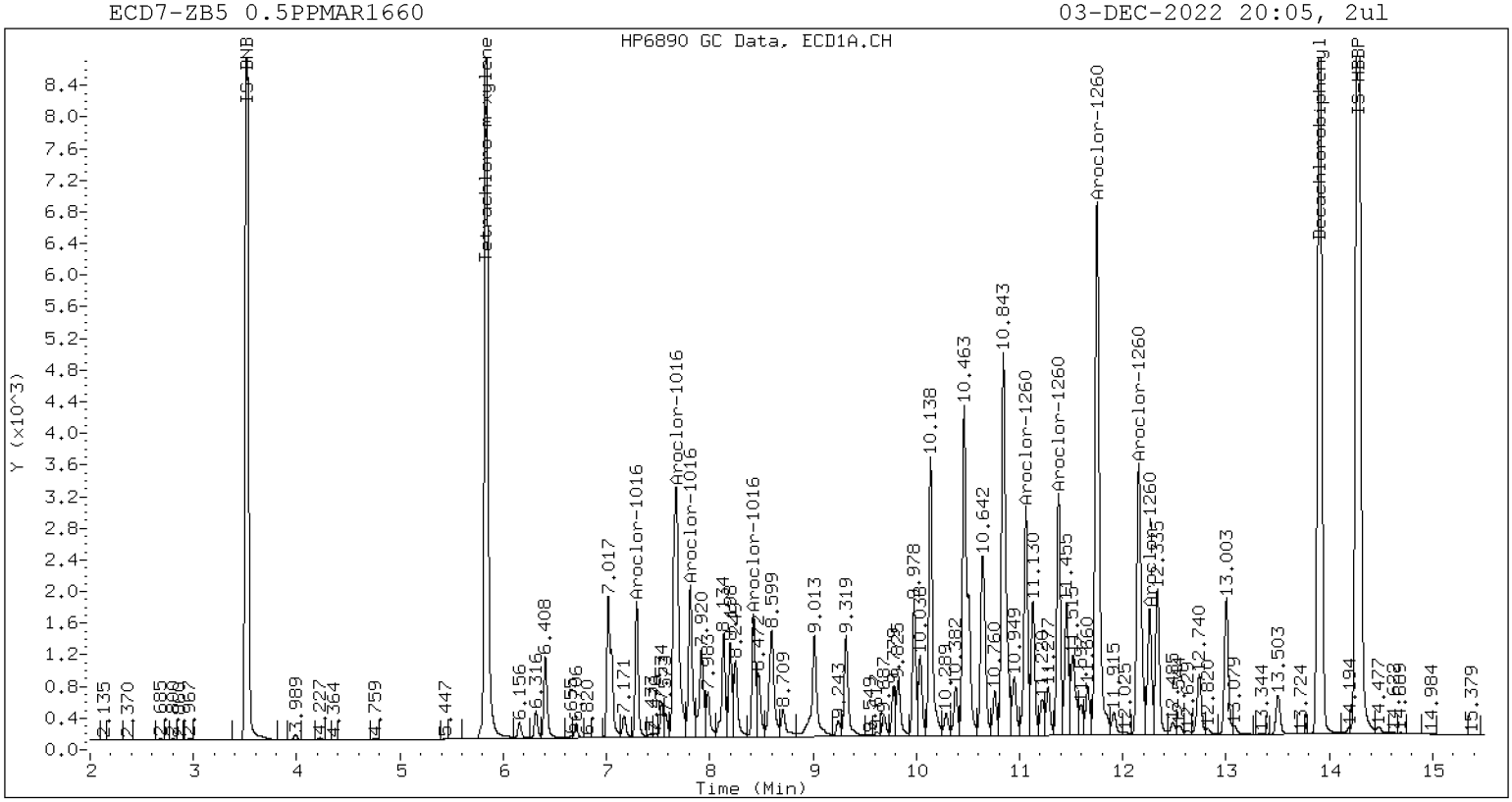
Total PCB Area Col2 (5.936 - 13.808) = 2352394 Col2 Total PCB = 1.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

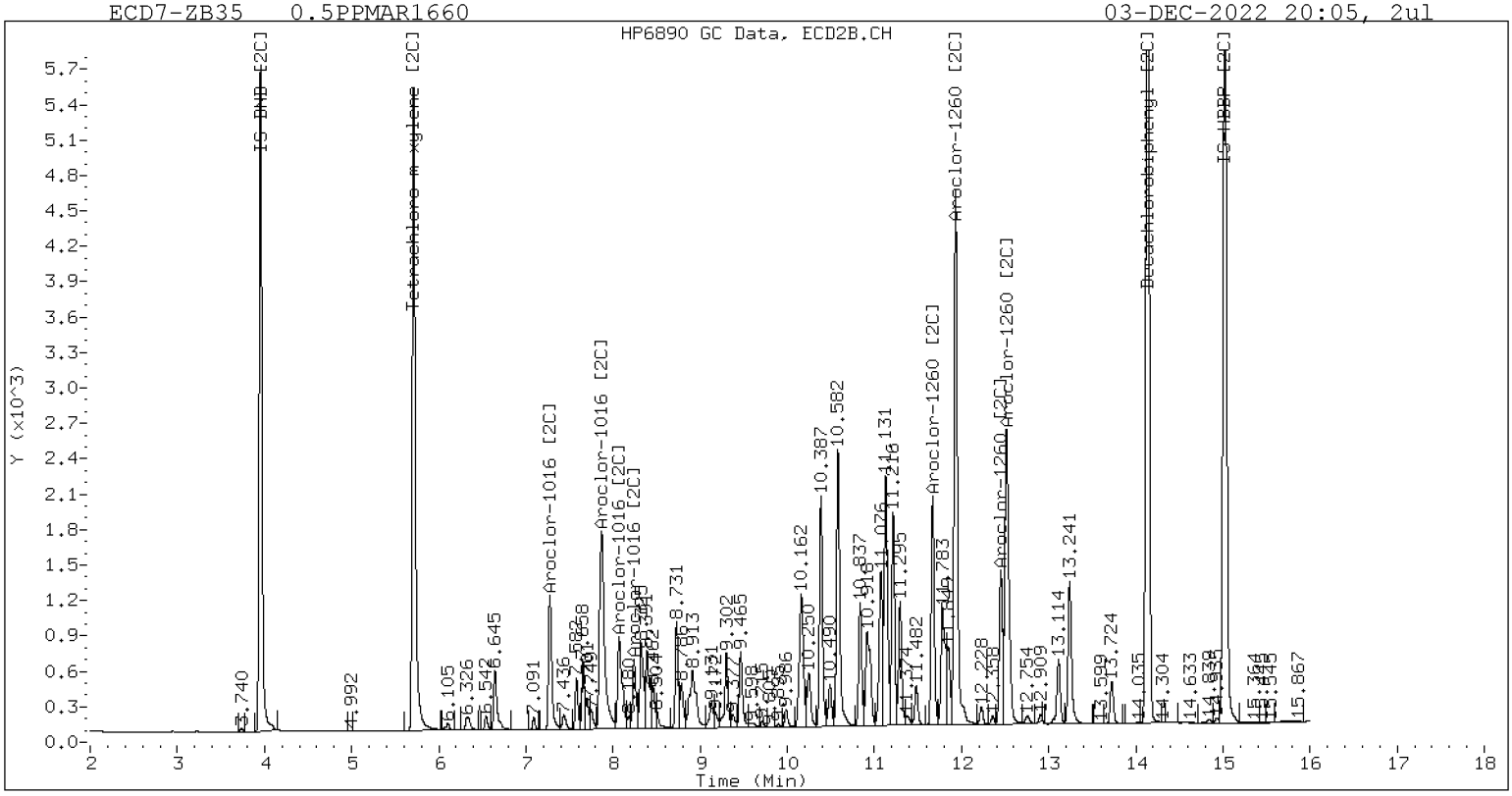
PCB Dual Column Chromatograms

ECD7-ZB5 0.5PPMAR1660 03-DEC-2022 20:05, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.5PPMAR1660 03-DEC-2022 20:05, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032217ECD7.D
Data file 2: /221203.b/221203.b/12032217ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242
Client ID:
Injection Date: 03-DEC-2022 20:26
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	243461	5.713	-0.000	130768	37.3	37.1	0.4	Tetrachloro-m-xylene
13.908	-0.001	300671	14.137	0.000	218277	38.5	38.4	0.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	461030	3.0
Hexabromobiphenyl	798898	851899	6.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	257053	3.2
Hexabromobiphenyl	362541	400012	10.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.294	0.000	32669	250.0	1	7.277	0.000	27198	250.0
Aroclor-1242	2	7.680	0.000	103727	250.0	2	7.875	0.000	57737	250.0
Aroclor-1242	3	8.427	0.000	29844	250.0	3	9.178	0.000	18627	250.0
Aroclor-1242	4	9.030	0.000	61970	250.0	4	9.605	0.000	22388	250.0

Total Col1Ave (4 peaks): 250.0 Total Col2Ave (4 peaks): 250.0 RPD = 0

Corrected Ave (3 peaks): 250.0 Corrected Ave (3 peaks): 250.0 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 766457 Col1 Total PCB = 0.1 ppm*

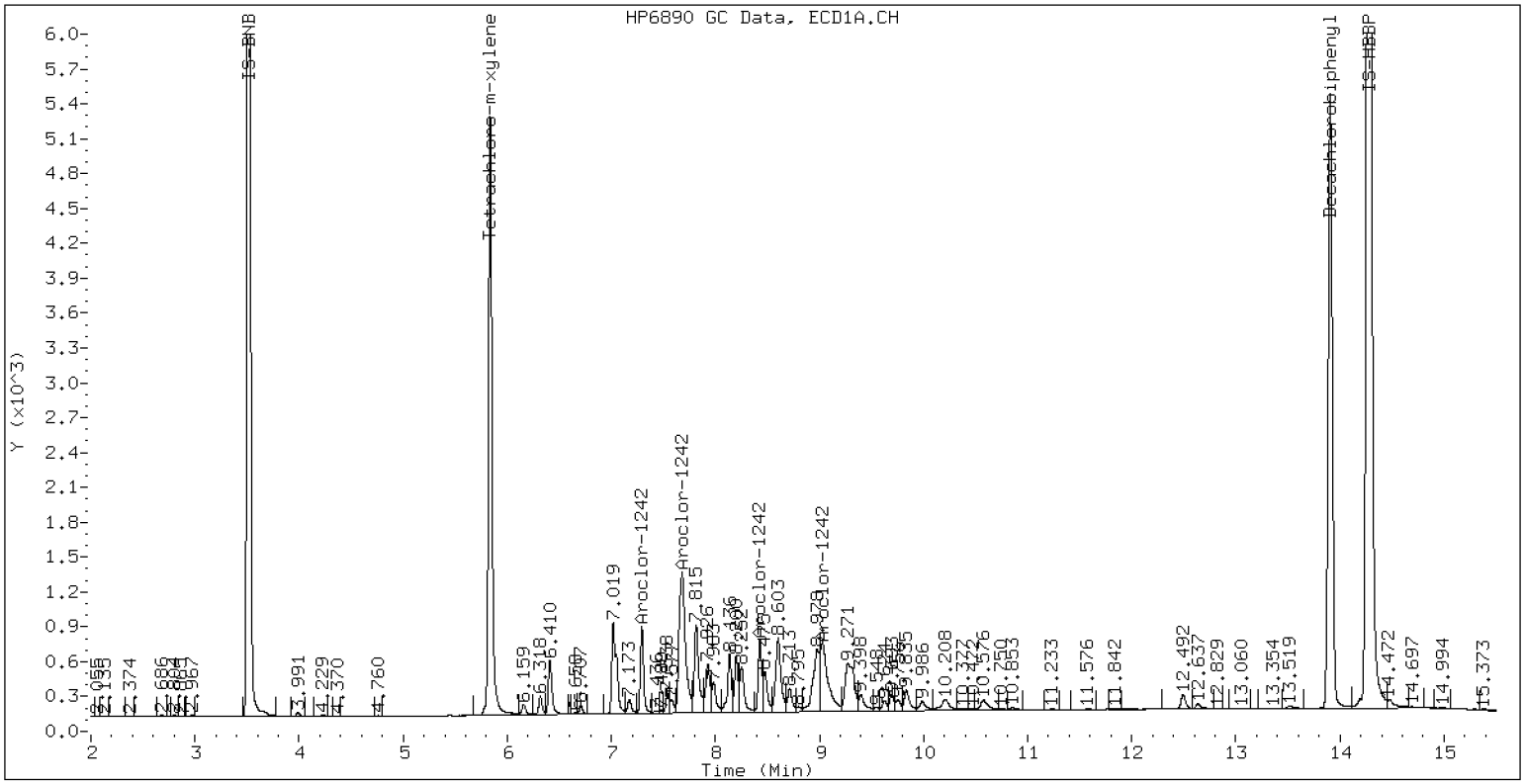
Total PCB Area Col2 (5.936 - 13.808) = 407128 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

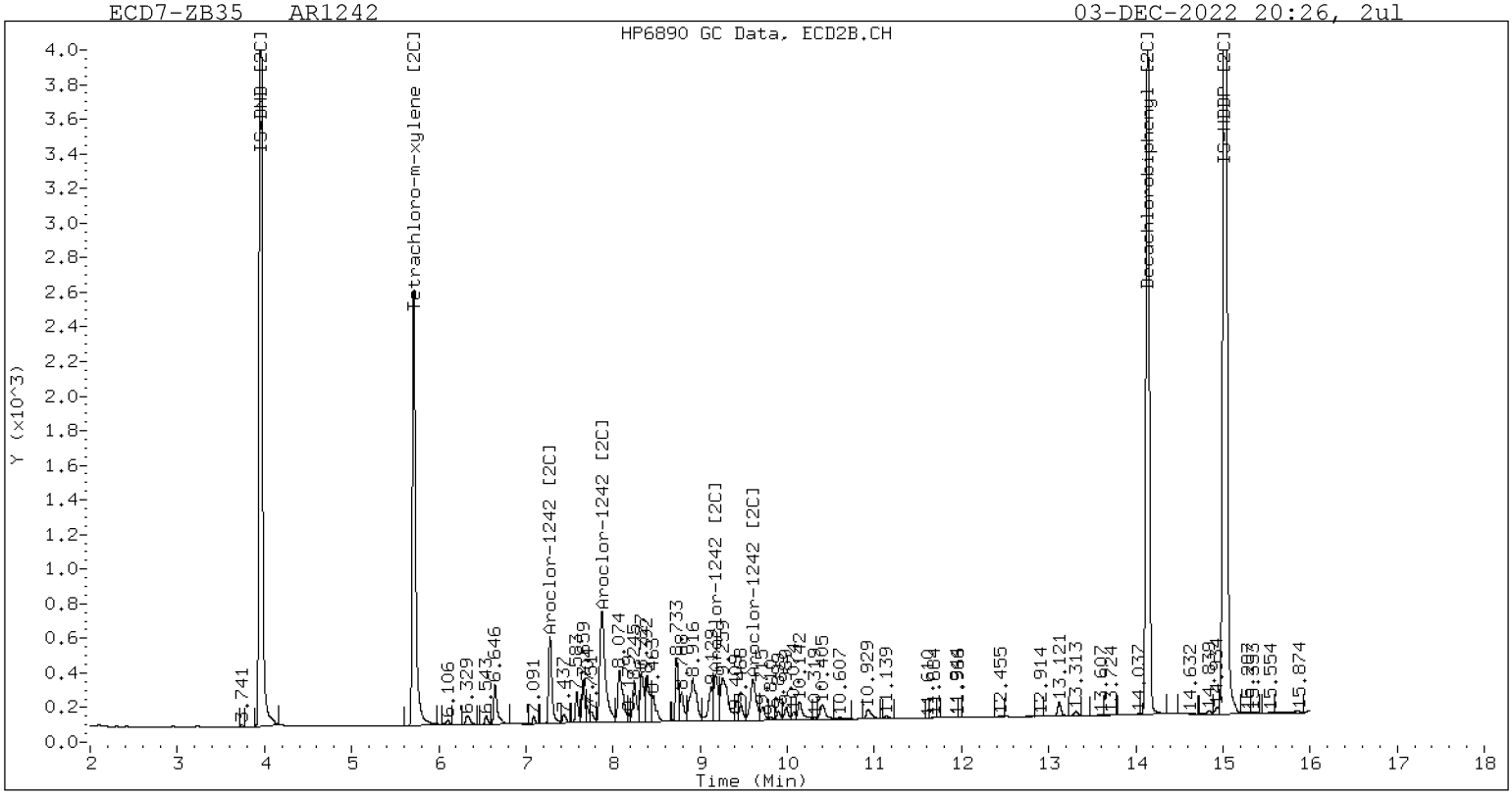
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242 03-DEC-2022 20:26, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1242 03-DEC-2022 20:26, 2ul

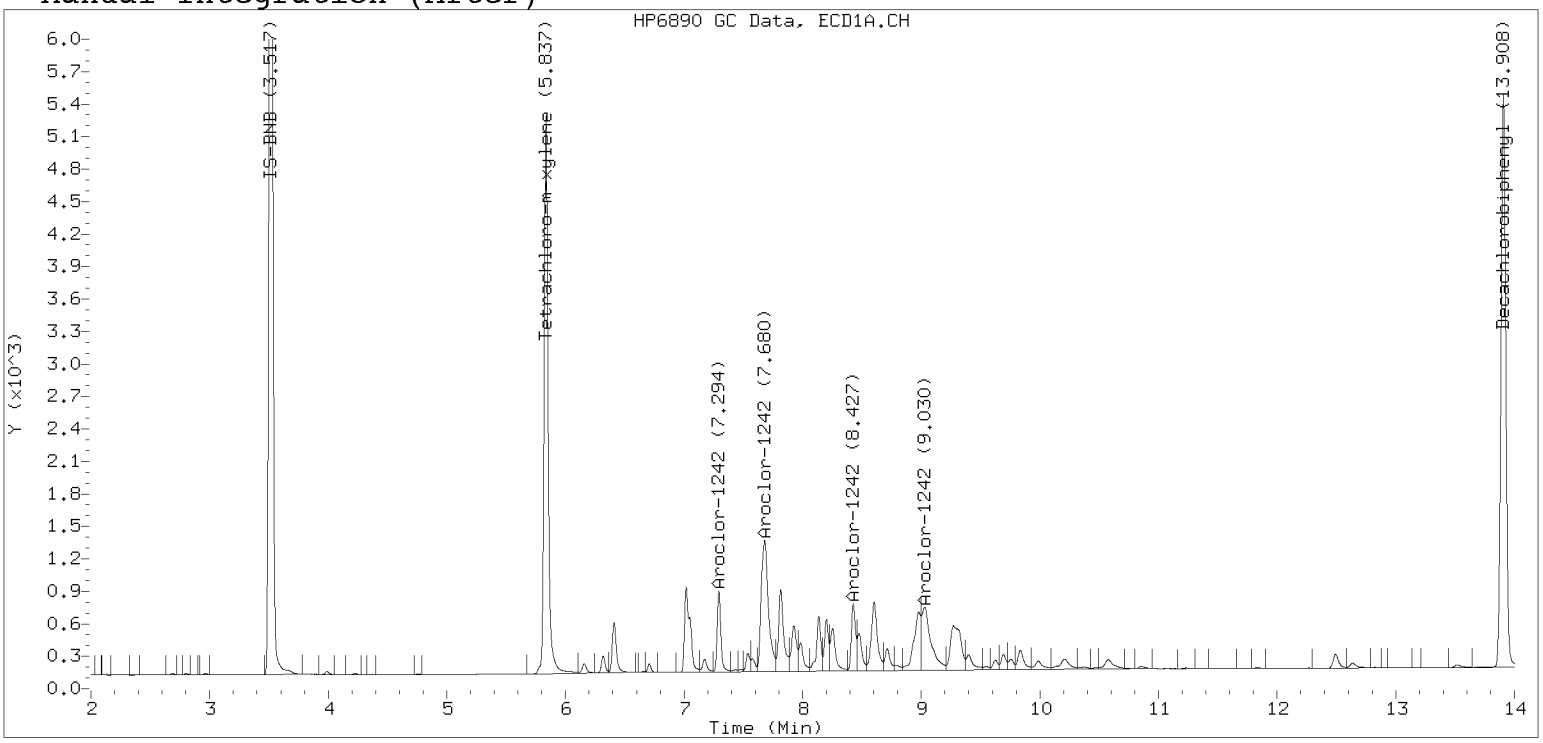


ZB-35 Manual Integration: YES

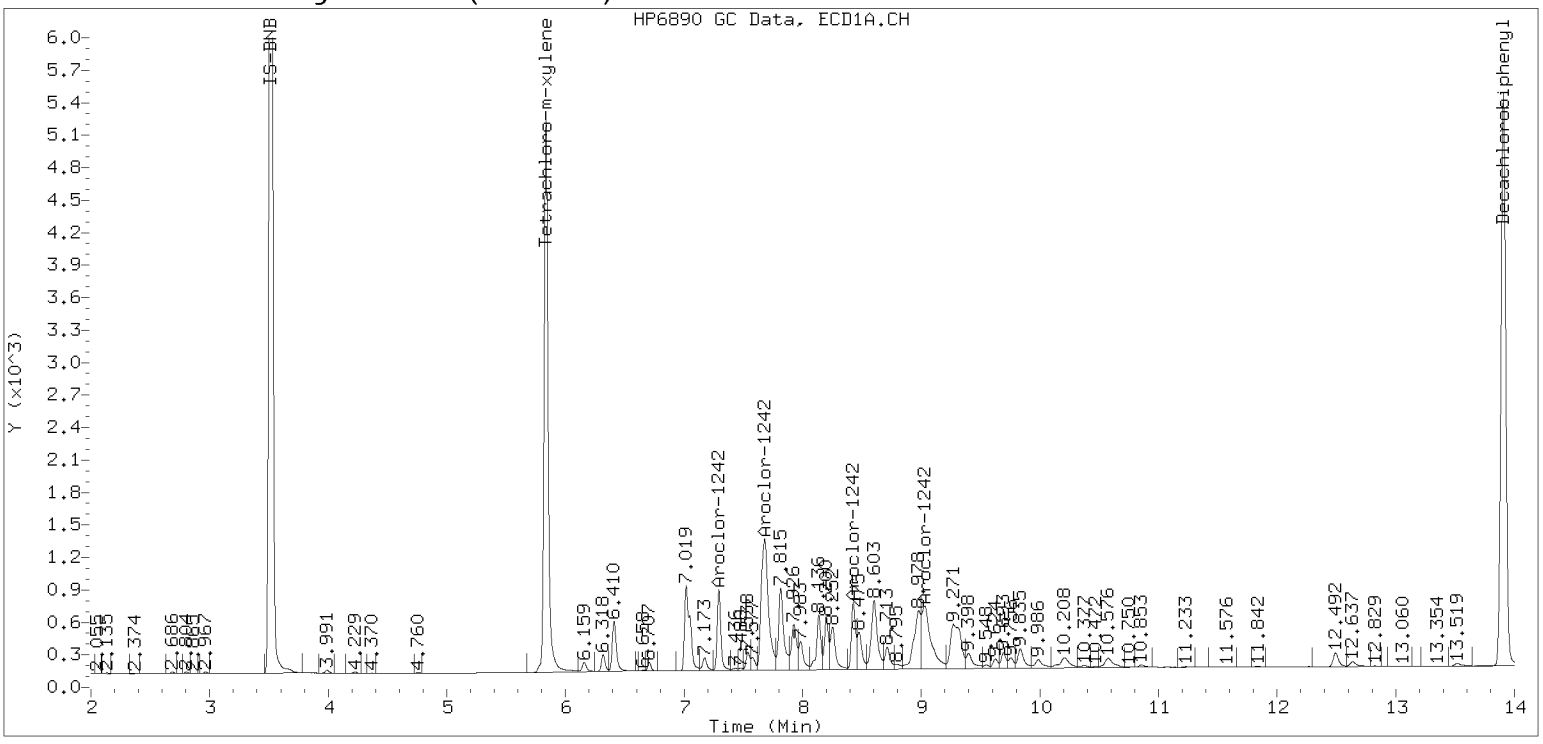
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221203.b/12032217ECD7.D Injection Date: 03-DEC-2022 20:26

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032218ECD7.D
Data file 2: /221203.b/221203.b/12032218ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248
Client ID:
Injection Date: 03-DEC-2022 20:48
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.001	231737	5.713	-0.000	124430	36.1	35.8	0.8	Tetrachloro-m-xylene
13.907	-0.001	296478	14.137	0.000	215774	38.9	38.1	1.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	453370	1.3
Hexabromobiphenyl	798898	832030	4.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	253684	1.8
Hexabromobiphenyl	362541	398468	9.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.427	0.000	48733	250.0	1	8.326	0.000	25909	250.0
Aroclor-1248	2	8.603	0.000	62221	250.0	2	8.733	0.000	27250	250.0
Aroclor-1248	3	9.023	0.000	111933	250.0	3	9.177	0.000	33147	250.0
Aroclor-1248	4	9.315	0.000	54837	250.0	4	9.602	0.000	38911	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 964384 Col1 Total PCB = 0.2 ppm*

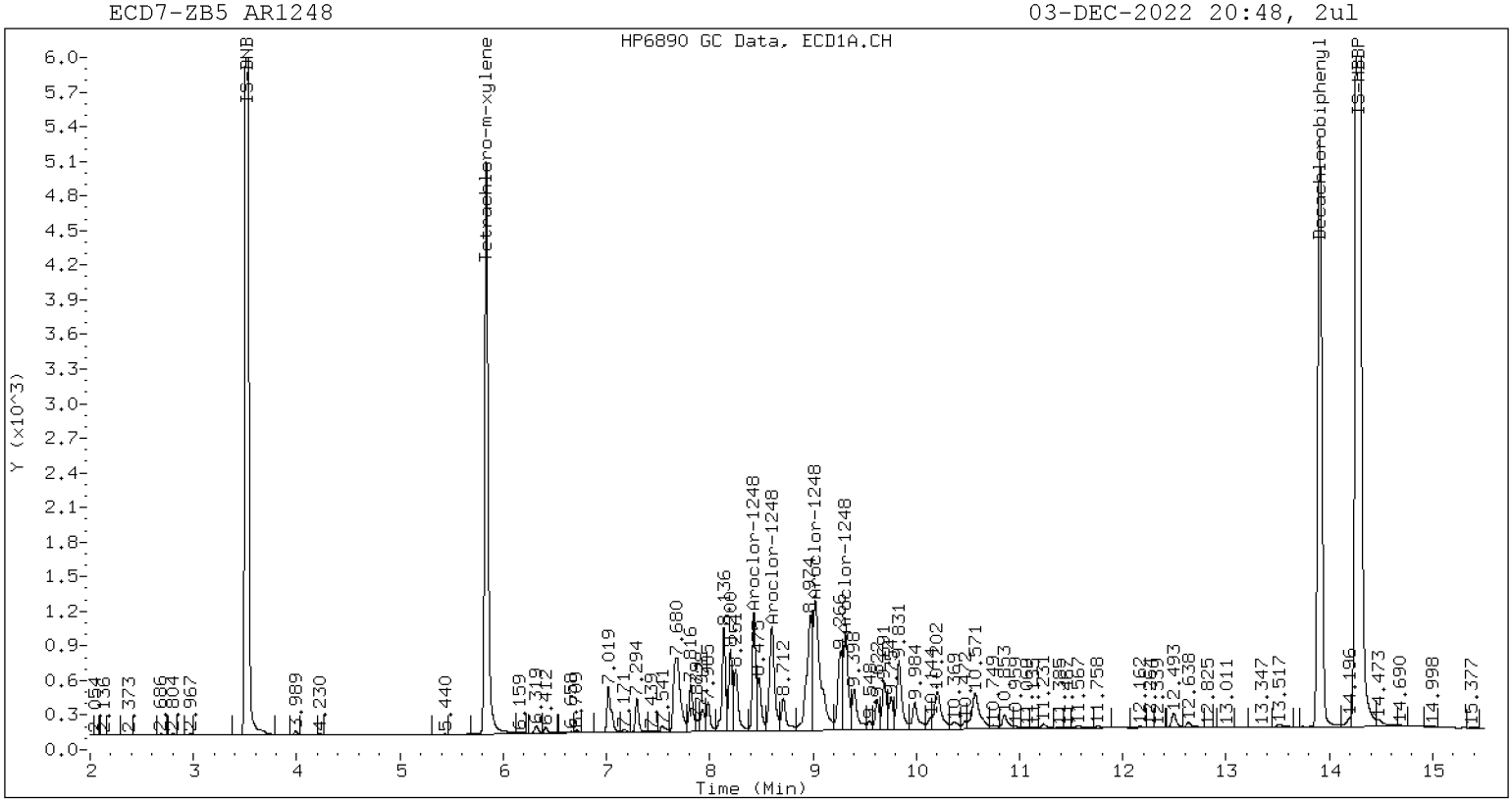
Total PCB Area Col2 (5.936 - 13.808) = 514558 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

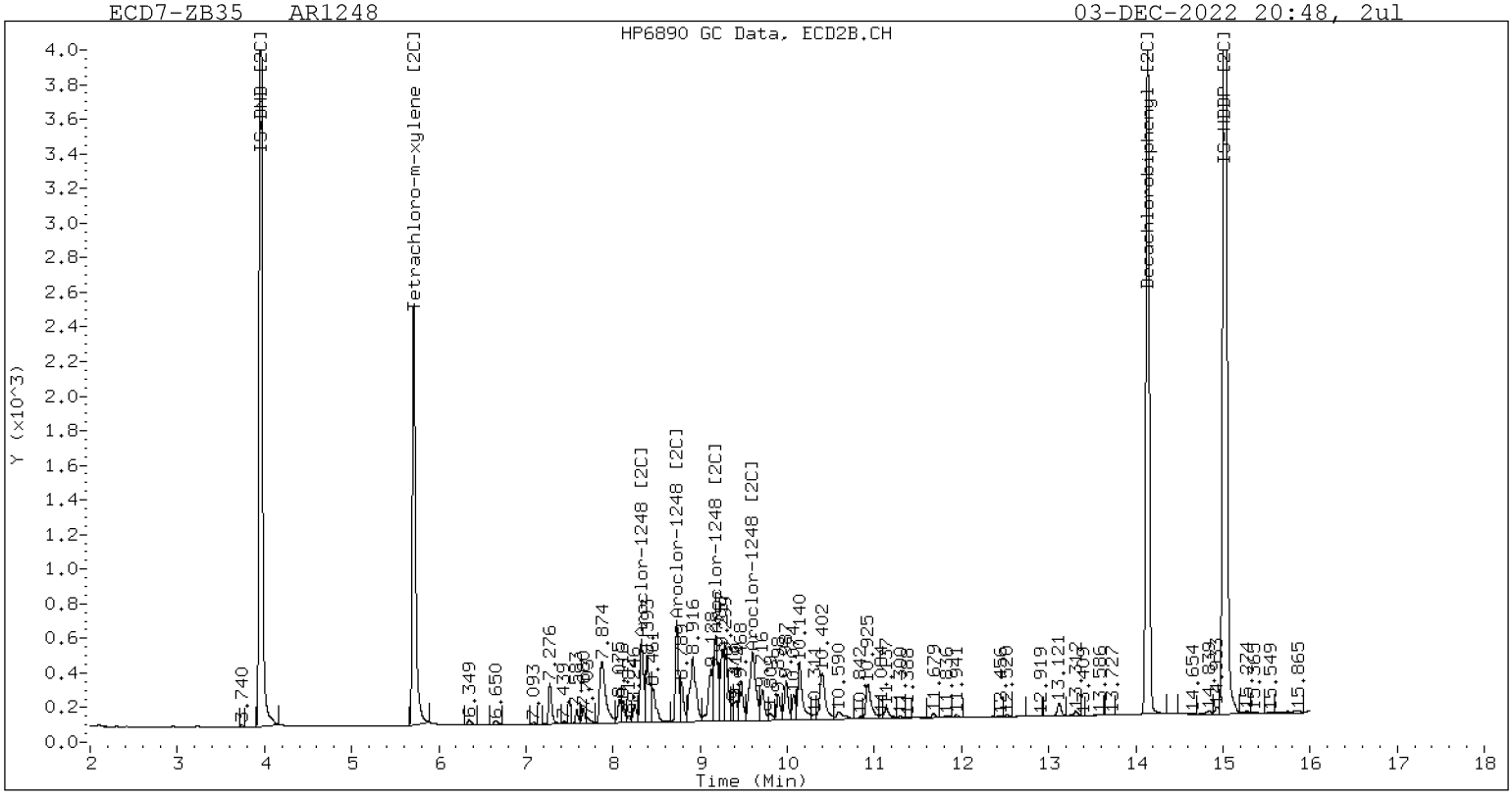
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248 03-DEC-2022 20:48, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248 03-DEC-2022 20:48, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032219ECD7.D
Data file 2: /221203.b/221203.b/12032219ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254
Client ID:
Injection Date: 03-DEC-2022 21:09
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.000	235742	5.713	-0.000	129532	36.3	36.8	1.4	Tetrachloro-m-xylene
13.908	-0.000	304424	14.136	-0.001	220843	39.5	38.4	2.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	458200	2.4
Hexabromobiphenyl	798898	841638	5.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	256547	3.0
Hexabromobiphenyl	362541	405063	11.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.319	0.000	100858	250.0	1	9.467	0.000	41352	250.0
Aroclor-1254	2	9.397	0.000	39224	250.0	2	9.987	0.000	33246	250.0
Aroclor-1254	3	9.688	0.000	63702	250.0	3	10.139	0.000	71462	250.0
Aroclor-1254	4	9.828	0.000	124170	250.0	4	10.389	0.000	74009	250.0
Aroclor-1254	5	10.194	0.000	85117	250.0	5	10.586	0.000	35695	250.0

Total Col1Ave (5 peaks): 250.0 Total Col2Ave (5 peaks): 250.0 RPD = 0

Corrected Ave (4 peaks): 250.0 Corrected Ave (4 peaks): 250.0 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 1310899 Col1 Total PCB = 0.2 ppm*

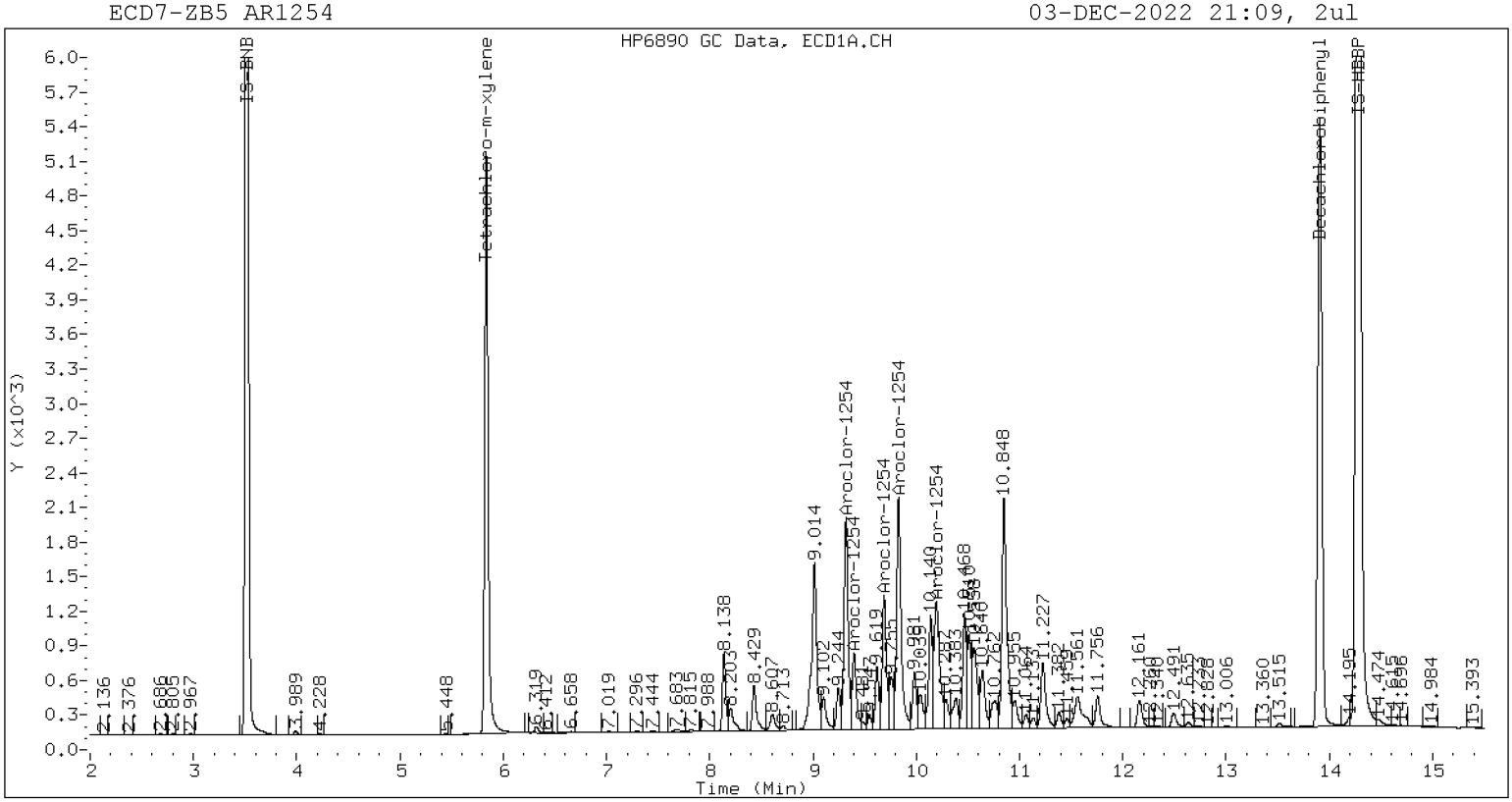
Total PCB Area Col2 (5.936 - 13.808) = 697760 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

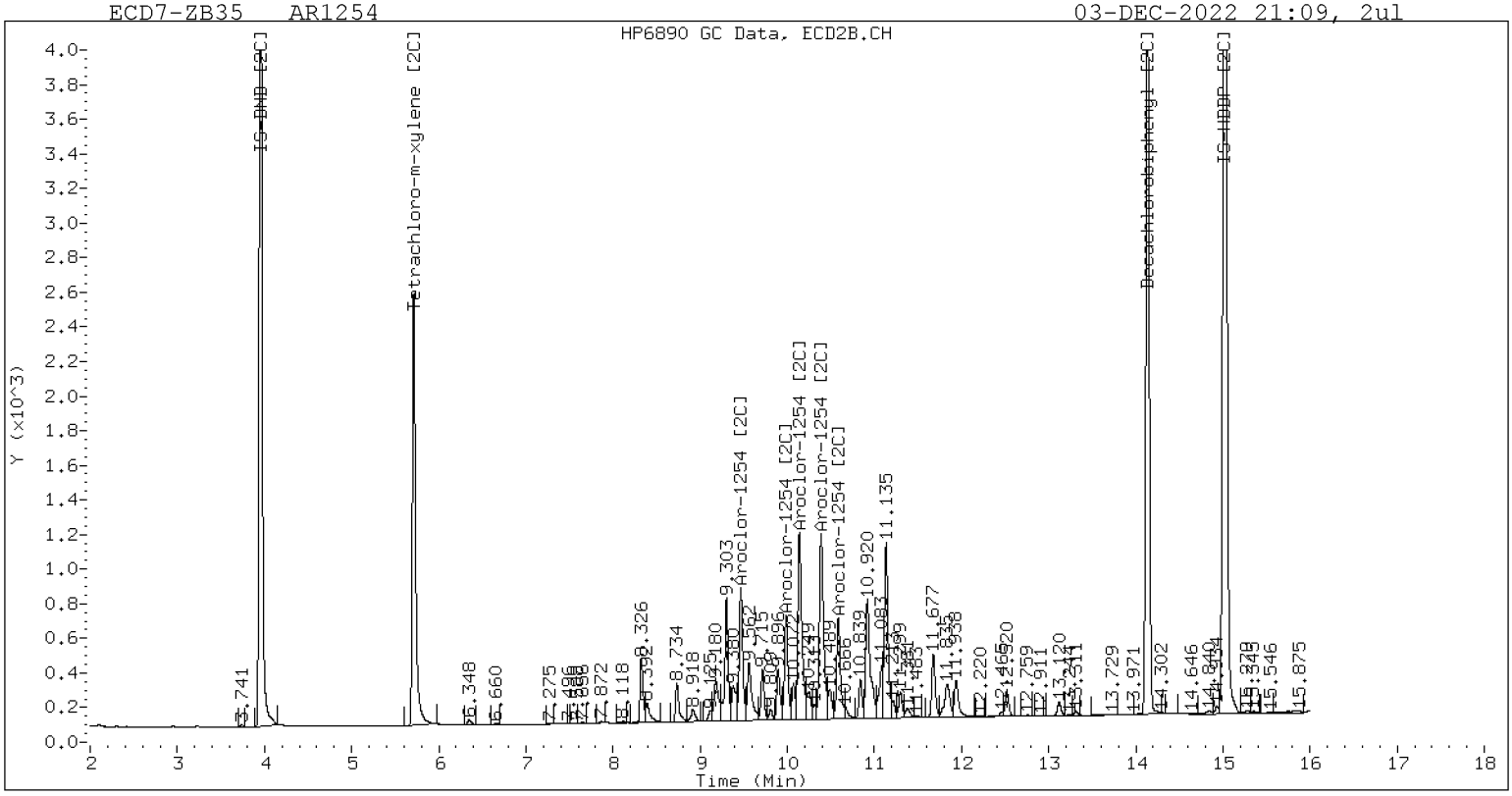
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254 03-DEC-2022 21:09, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254 03-DEC-2022 21:09, 2ul



ZB-35 Manual Integration: YES

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032220ECD7.D
Data file 2: /221203.b/221203.b/12032220ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR2162.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162
Client ID:
Injection Date: 03-DEC-2022 21:30
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.835	-0.001	241351	5.713	-0.001	129143	36.5	36.2	0.7	Tetrachloro-m-xylene
13.908	0.000	313862	14.136	-0.001	226219	40.2	38.7	4.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	466944	4.3
Hexabromobiphenyl	798898	850987	6.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	260026	4.4
Hexabromobiphenyl	362541	412003	13.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	ZB5 Col Area	Amount	Peak#	RT	Shift	ZB35 Col Area	Amount
Aroclor-1221	1	4.760	0.000	9650	250.0	1	4.987	0.000	5486	250.0
Aroclor-1221	2	6.159	0.000	17000	250.0	2	6.322	0.000	10456	250.0
Aroclor-1221	3	6.409	0.000	39219	250.0	3	6.645	0.000	17596	250.0
Total Col1Ave (3 peaks):					250.0	Total Col2Ave (3 peaks):				250.0 RPD = 0
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1262	1	10.848	0.000	71145	250.0	1	11.217	0.000	78317	250.0
Aroclor-1262	2	12.263	0.000	110609	250.0	2	11.670	0.000	67831	250.0
Aroclor-1262	3	12.337	0.000	118127	250.0	3	12.451	0.000	74822	250.0
Aroclor-1262	4	13.005	0.000	94805	250.0	4	12.519	0.000	117202	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 1878739 Col1 Total PCB = 0.3 ppm*

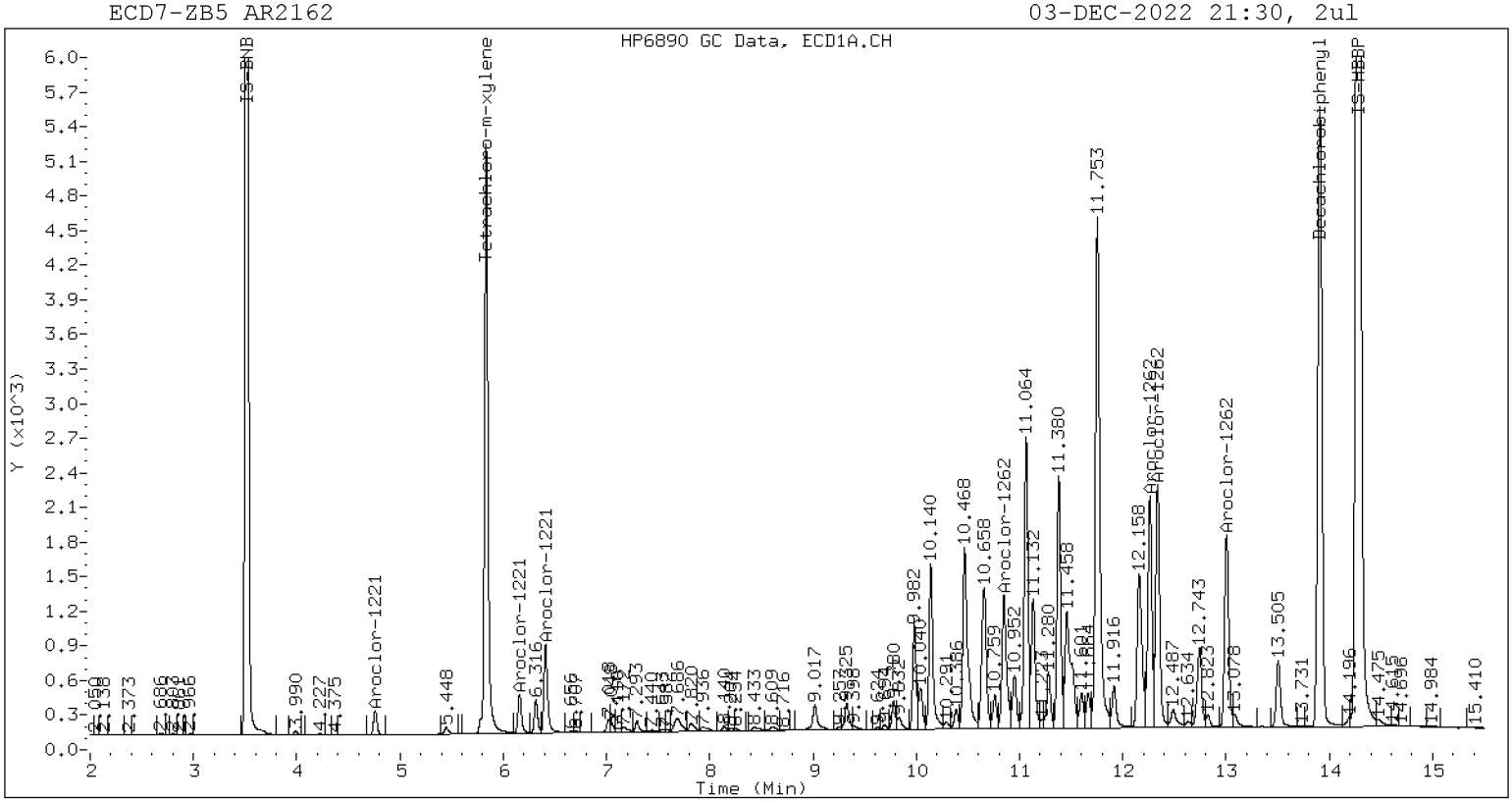
Total PCB Area Col2 (5.936 - 13.808) = 1073324 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

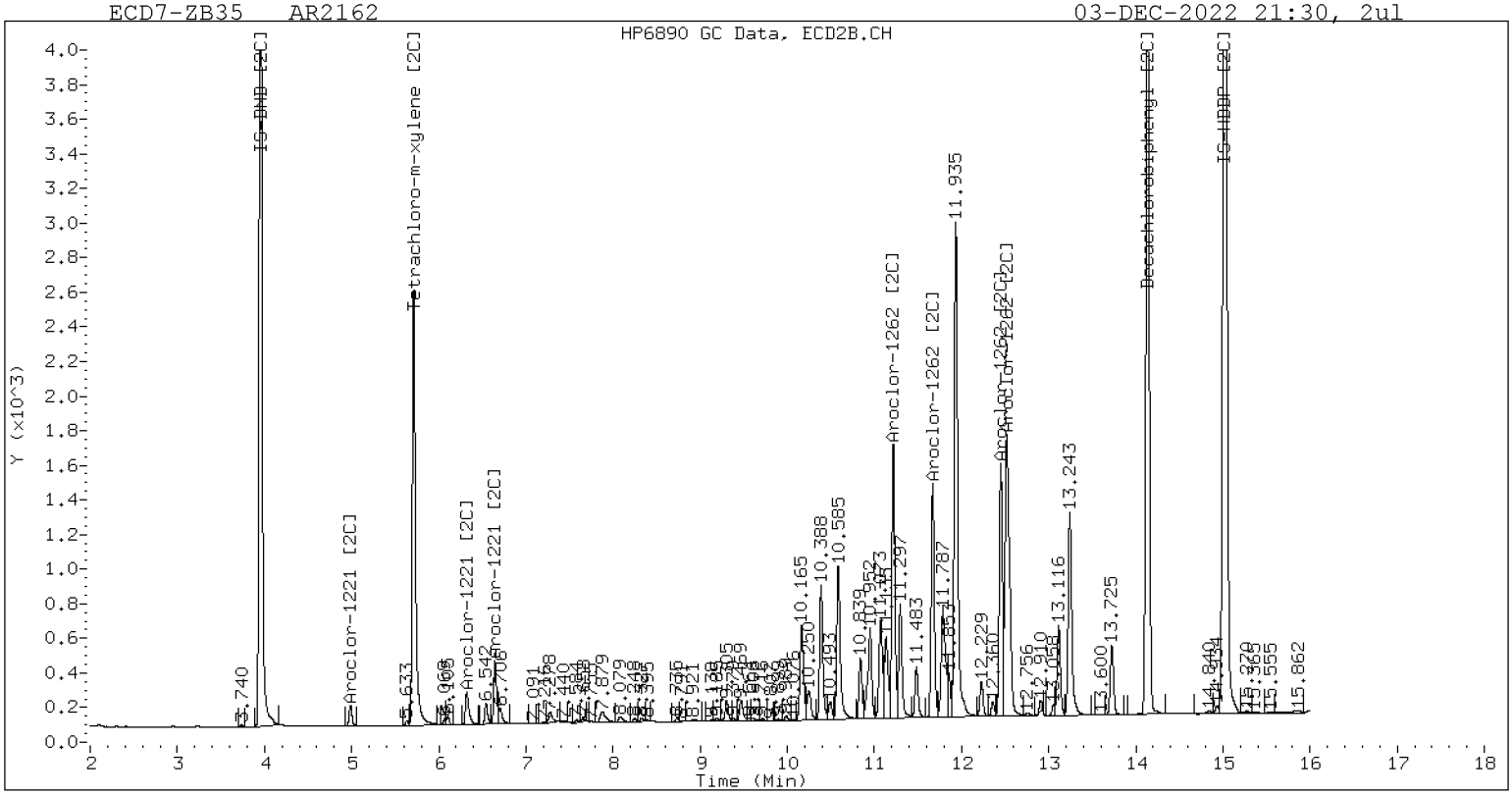
PCB Dual Column Chromatograms

ECD7-ZB5 AR2162 03-DEC-2022 21:30, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR2162 03-DEC-2022 21:30, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032221ECD7.D
Data file 2: /221203.b/221203.b/12032221ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR3268.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268
Client ID:
Injection Date: 03-DEC-2022 21:52
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	0.000	243663	5.713	0.000	131067	37.5	37.4	0.3	Tetrachloro-m-xylene
13.908	0.000	449152	14.137	0.000	328563	57.2	55.9	2.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	458589	2.4
Hexabromobiphenyl	798898	855928	7.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	255655	2.6
Hexabromobiphenyl	362541	413793	14.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1232	1	4.761	0.000	5704	250.0	1	4.989	0.000	3108	250.0
Aroclor-1232	2	6.160	0.000	12048	250.0	2	7.277	0.000	15872	250.0
Aroclor-1232	3	7.684	0.000	54107	250.0	3	7.876	0.000	31029	250.0
Aroclor-1232	4	8.606	0.000	22956	250.0	4	8.734	0.000	8413	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0
Aroclor-1268	1	12.262	0.000	299378	250.0	1	12.450	0.000	195273	250.0
Aroclor-1268	2	12.335	0.000	292877	250.0	2	12.517	0.000	200224	250.0
Aroclor-1268	3	12.716	0.000	240046	250.0	3	12.910	0.000	74248	250.0
Aroclor-1268	4	13.505	0.000	732880	250.0	4	13.726	0.000	534323	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 2400701 Col1 Total PCB = 0.5 ppm*

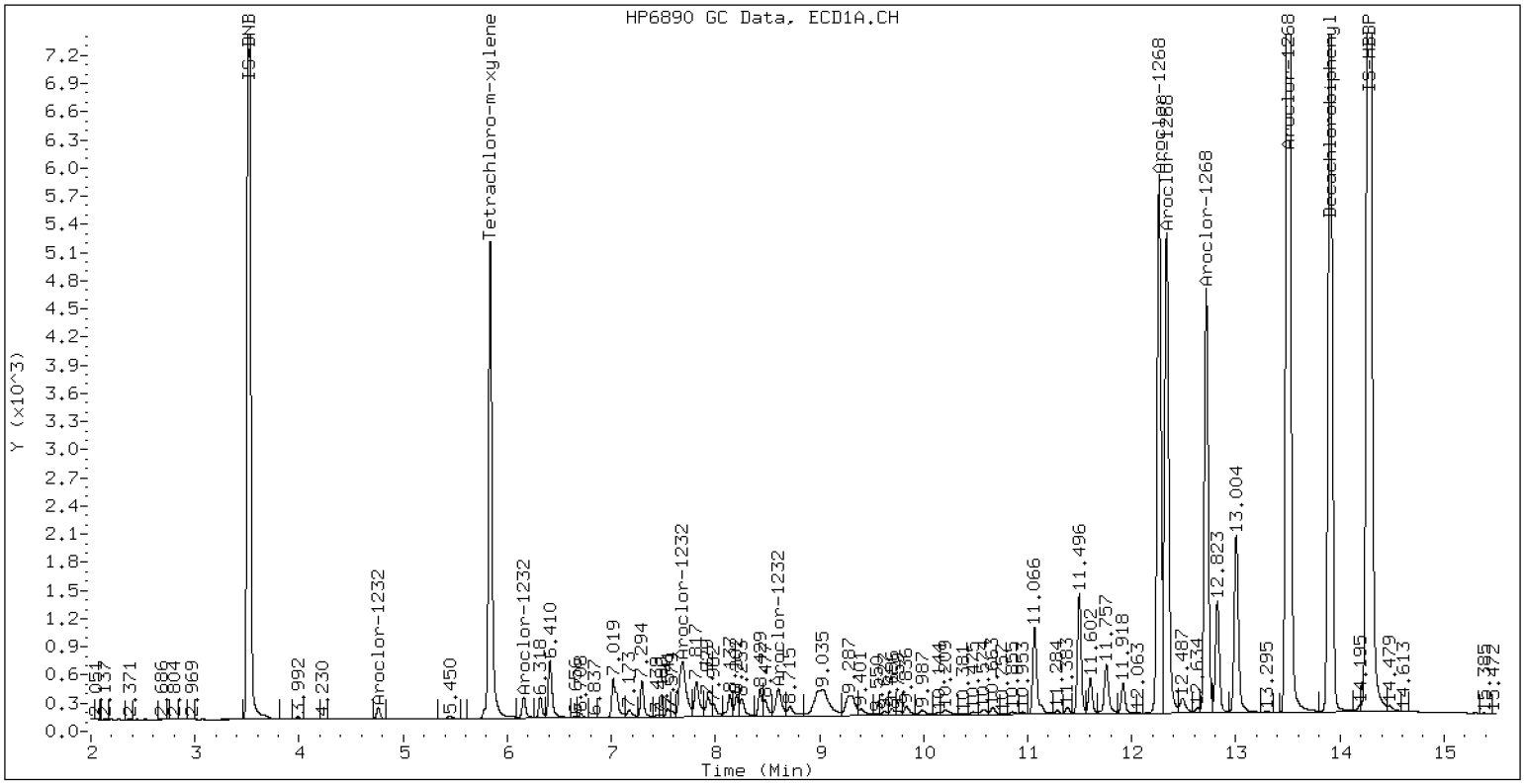
Total PCB Area Col2 (5.936 - 13.808) = 1468669 Col2 Total PCB = 0.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

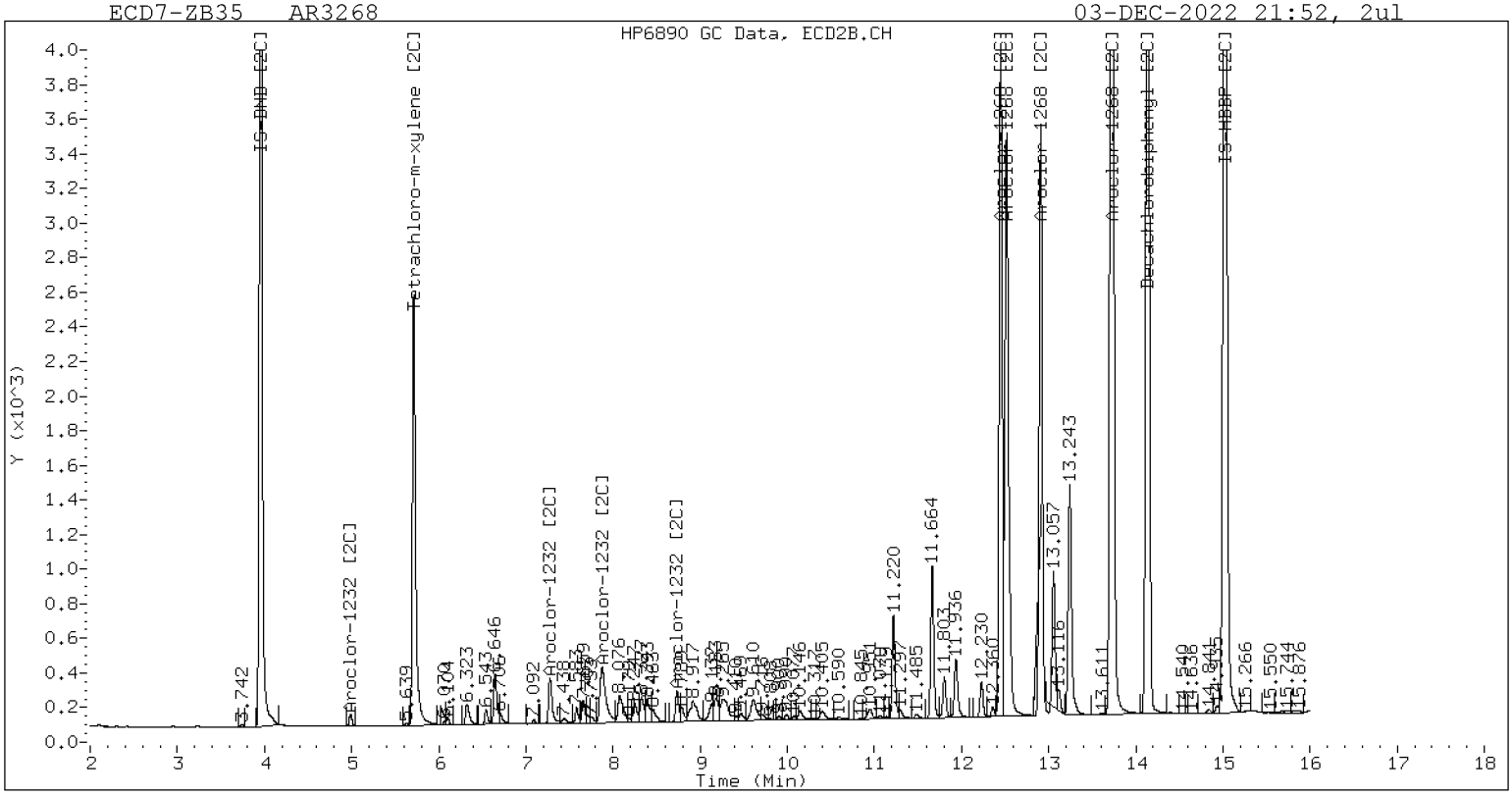
PCB Dual Column Chromatograms

ECD7-ZB5 AR3268 03-DEC-2022 21:52, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268 03-DEC-2022 21:52, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032222ECD7.D
Data file 2: /221203.b/221203.b/12032222ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660SCV1
Client ID:
Injection Date: 03-DEC-2022 22:13
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	247495	5.714	0.000	133904	36.1	36.1	0.2	Tetrachloro-m-xylene
13.909	0.001	325466	14.137	0.000	234467	39.8	38.2	4.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	483506	8.0
Hexabromobiphenyl	798898	892033	11.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270882	8.7
Hexabromobiphenyl	362541	432562	19.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.293	0.001	36100	223.8	1	7.277	0.002	30155	217.7
Aroclor-1016	2	7.681	0.007	113995	218.9	2	7.875	0.004	64468	215.8
Aroclor-1016	3	7.815	0.004	53043	224.8	3	8.074	0.004	27130	211.5
Aroclor-1016	4	8.428	0.004	33958	225.7	4	8.245	0.004	14848	220.1
Total Col1Ave (4 peaks):					223.3	Total Col2Ave (4 peaks):				216.3 RPD = 3
Corrected Ave (3 peaks):					222.5	Corrected Ave (3 peaks):				215.0 RPD = 3
Aroclor-1260	1	11.063	0.001	93173	286.9	1	11.671	0.002	56796	248.7
Aroclor-1260	2	11.380	0.003	95530	284.5	2	11.935	0.002	153247	267.5
Aroclor-1260	3	11.754	0.004	250548	283.9	3	12.452	0.001	41316	270.8
Aroclor-1260	4	12.159	0.005	120399	267.9	4	12.519	0.003	100704	263.7
Aroclor-1260	5	12.263	0.003	55639	302.5	NS	---			----
Total Col1Ave (5 peaks):					285.1	Total Col2Ave (4 peaks):				262.7 RPD = 8
Corrected Ave (4 peaks):					280.8	Corrected Ave (3 peaks):				260.0 RPD = 8

Total PCB Area Col1 (5.936 - 13.808) = 2318083 Col1 Total PCB = 0.4 ppm*

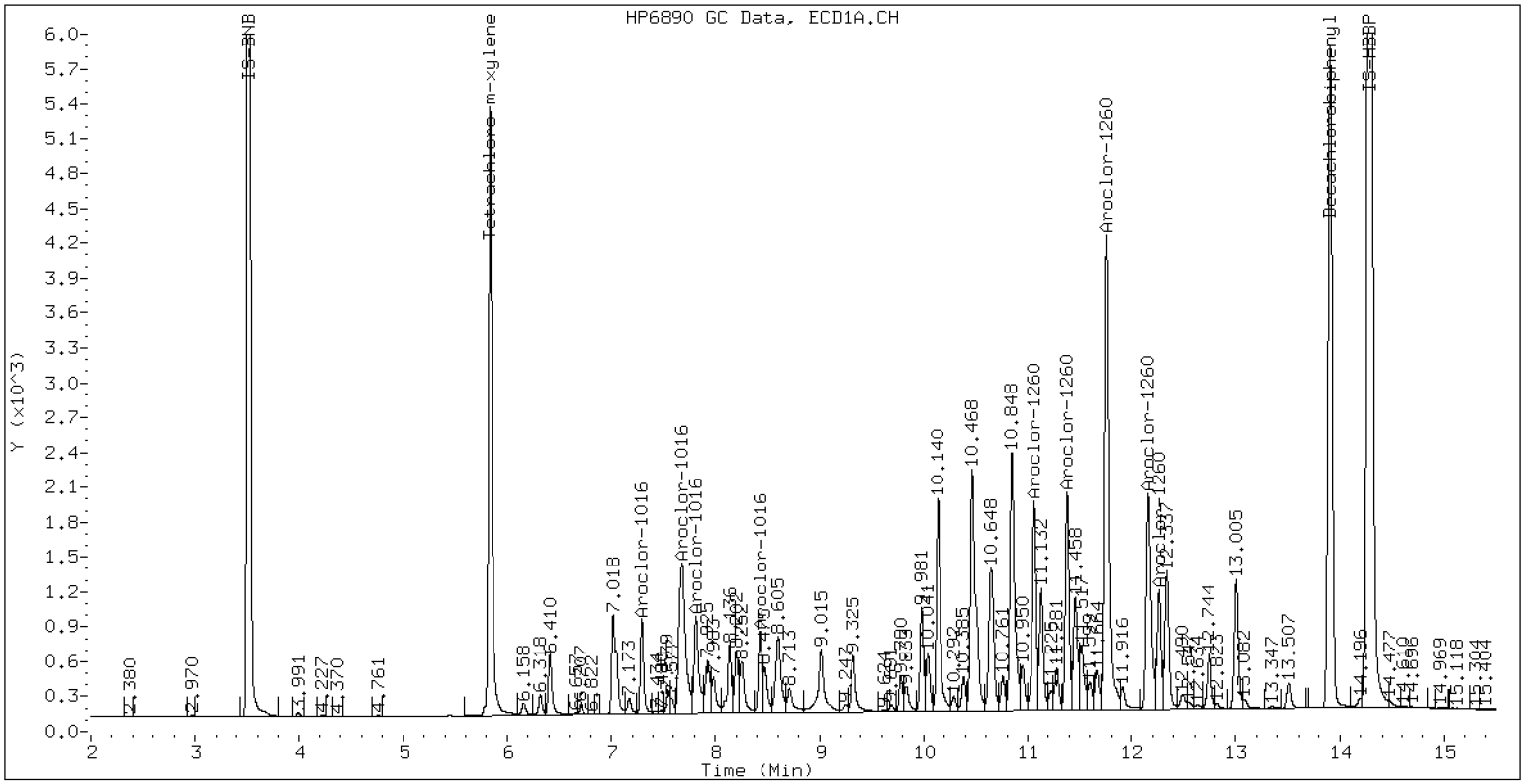
Total PCB Area Col2 (5.936 - 13.808) = 1275603 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

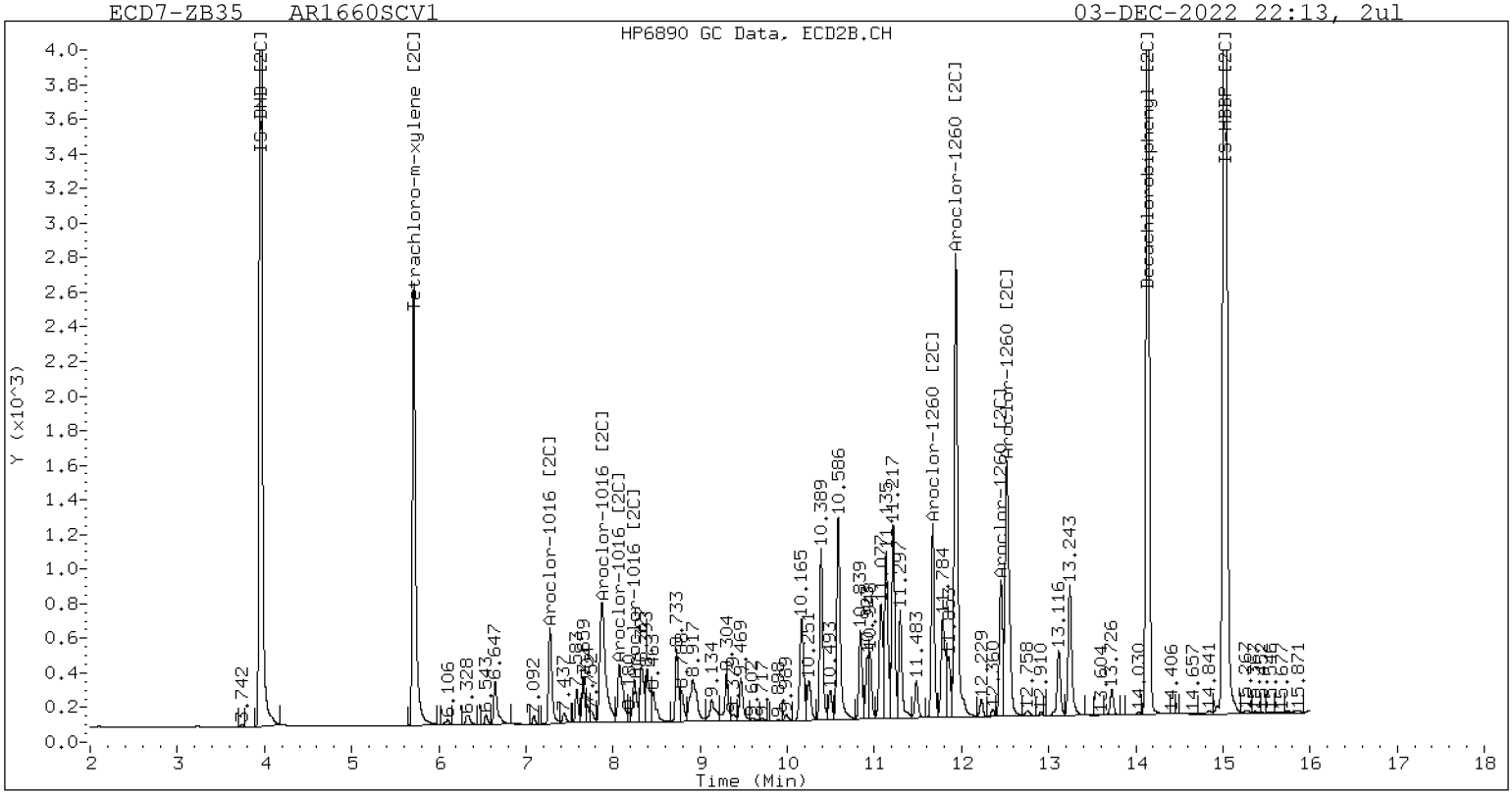
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660SCV1 03-DEC-2022 22:13, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660SCV1 03-DEC-2022 22:13, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032223ECD7.D
Data file 2: /221203.b/221203.b/12032223ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242SCV2
Client ID:
Injection Date: 03-DEC-2022 22:34
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.000	242356	5.713	-0.001	132586	35.6	35.8	0.7	Tetrachloro-m-xylene
13.909	0.001	321690	14.136	-0.001	228130	39.1	38.0	2.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	480791	7.4
Hexabromobiphenyl	798898	896515	12.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270117	8.4
Hexabromobiphenyl	362541	422729	16.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.294	0.000	26316	193.1	1	7.277	-0.001	23973	209.7
Aroclor-1242	2	7.677	-0.003	89703	207.3	2	7.873	-0.002	50204	206.9
Aroclor-1242	3	8.427	0.000	26786	215.2	3	9.176	-0.002	19686	251.4
Aroclor-1242	4	9.025	-0.005	54647	211.4	4	9.599	-0.006	21874	232.4
Total Col1Ave (4 peaks):					206.7	Total Col2Ave (4 peaks):				225.1 RPD = 9
Corrected Ave (3 peaks):					203.9	Corrected Ave (3 peaks):				216.3 RPD = 6

Total PCB Area Col1 (5.936 - 13.808) = 731052 Col1 Total PCB = 0.1 ppm*

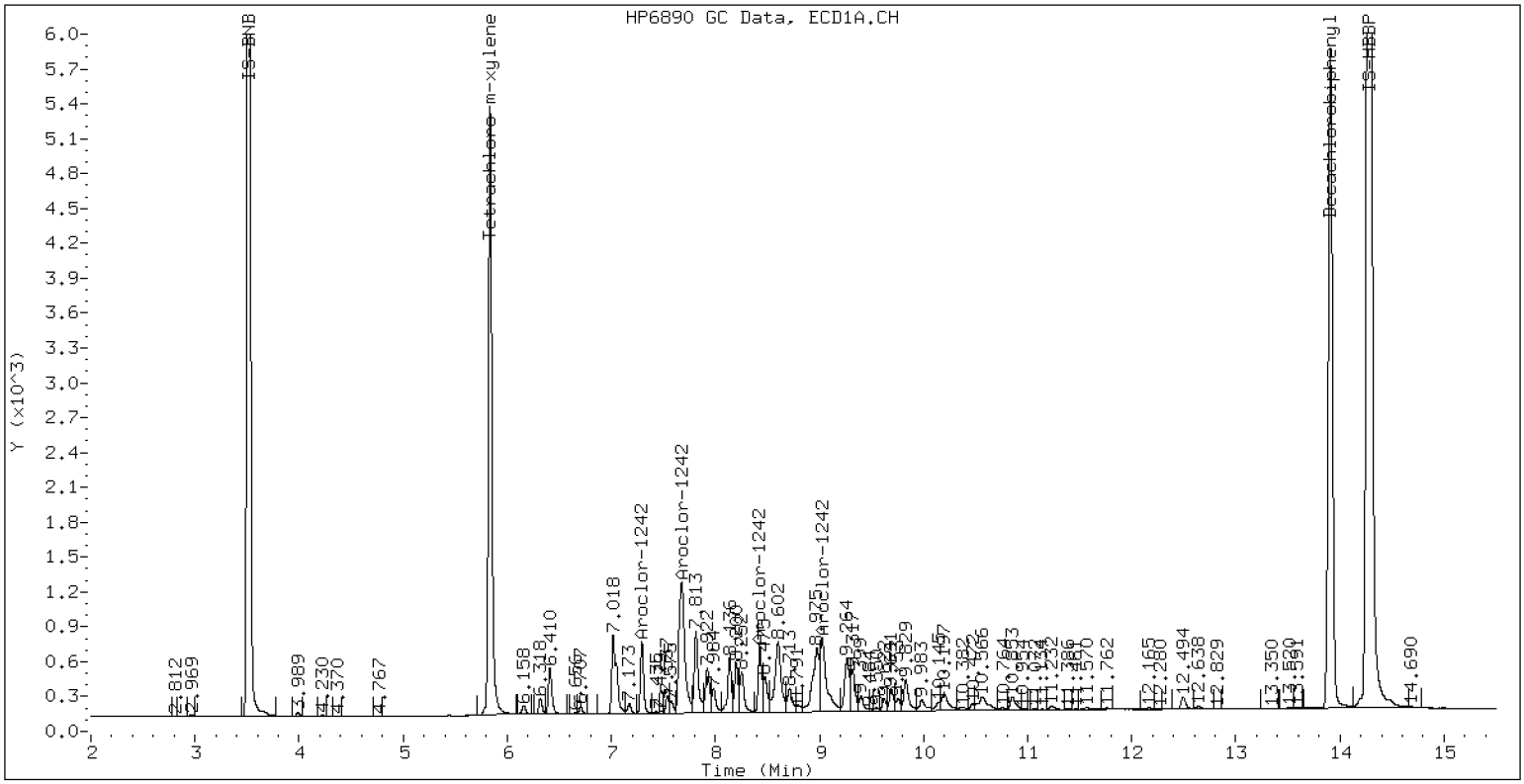
Total PCB Area Col2 (5.936 - 13.808) = 398143 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

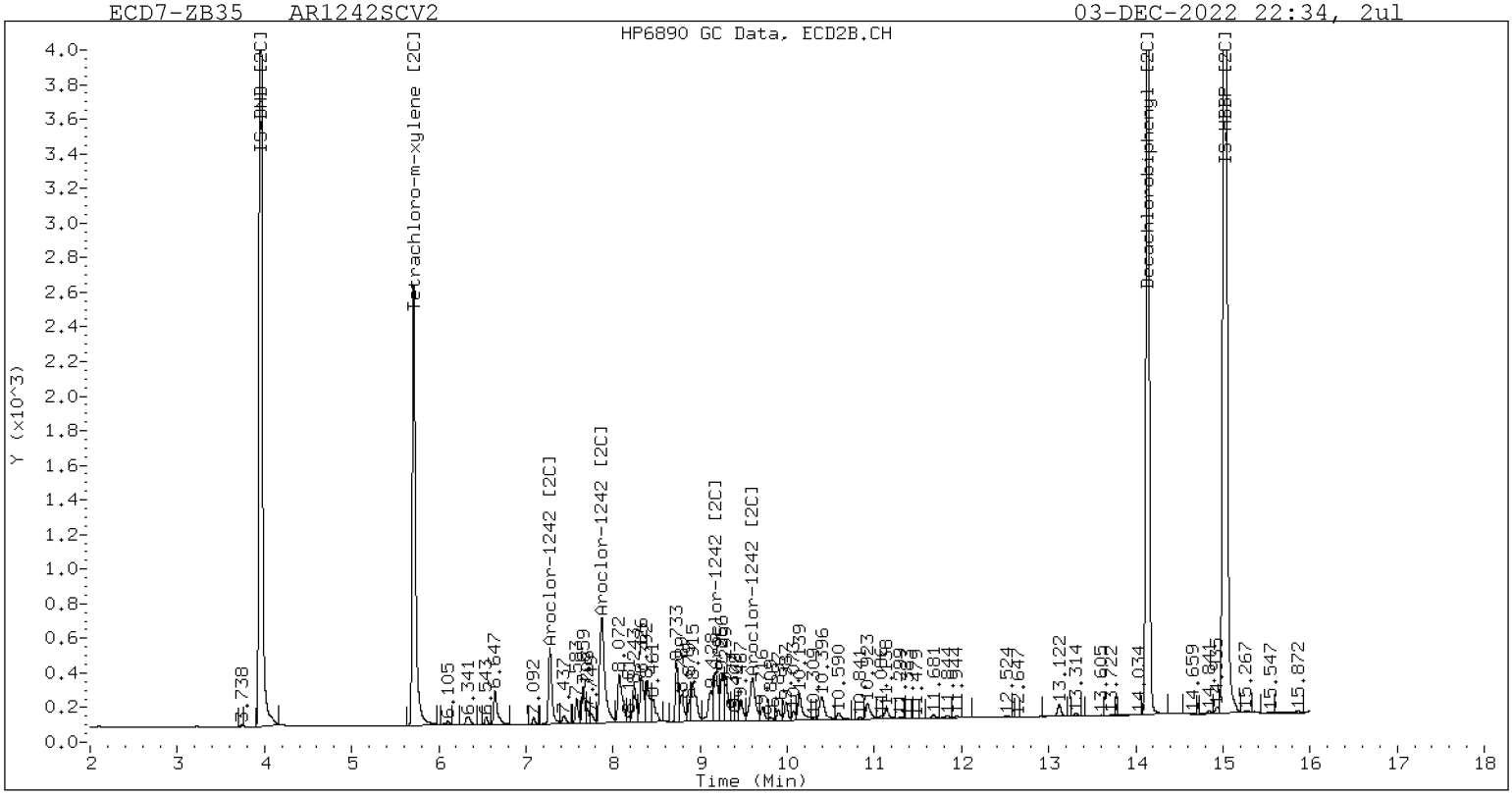
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242SCV2 03-DEC-2022 22:34, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242SCV2 03-DEC-2022 22:34, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032224ECD7.D
Data file 2: /221203.b/221203.b/12032224ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248SCV3
Client ID:
Injection Date: 03-DEC-2022 22:55
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	238518	5.713	-0.001	130772	34.7	35.1	1.0	Tetrachloro-m-xylene
13.909	0.001	329816	14.137	0.000	230748	39.3	38.1	3.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	484977	8.3
Hexabromobiphenyl	798898	915518	14.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	272055	9.2
Hexabromobiphenyl	362541	426674	17.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.427	-0.000	49184	235.9	1	8.326	0.000	25647	230.8
Aroclor-1248	2	8.604	0.002	62884	236.2	2	8.733	0.000	26944	230.5
Aroclor-1248	3	9.021	-0.002	117065	244.4	3	9.179	0.001	32692	229.9
Aroclor-1248	4	9.315	0.000	62309	265.6	4	9.604	0.002	38342	229.7

Total Col1Ave (4 peaks): 245.5 Total Col2Ave (4 peaks): 230.2 RPD = 6

Corrected Ave (3 peaks): 238.8 Corrected Ave (3 peaks): 230.0 RPD = 4

Total PCB Area Col1 (5.936 - 13.808) = 991353 Col1 Total PCB = 0.2 ppm*

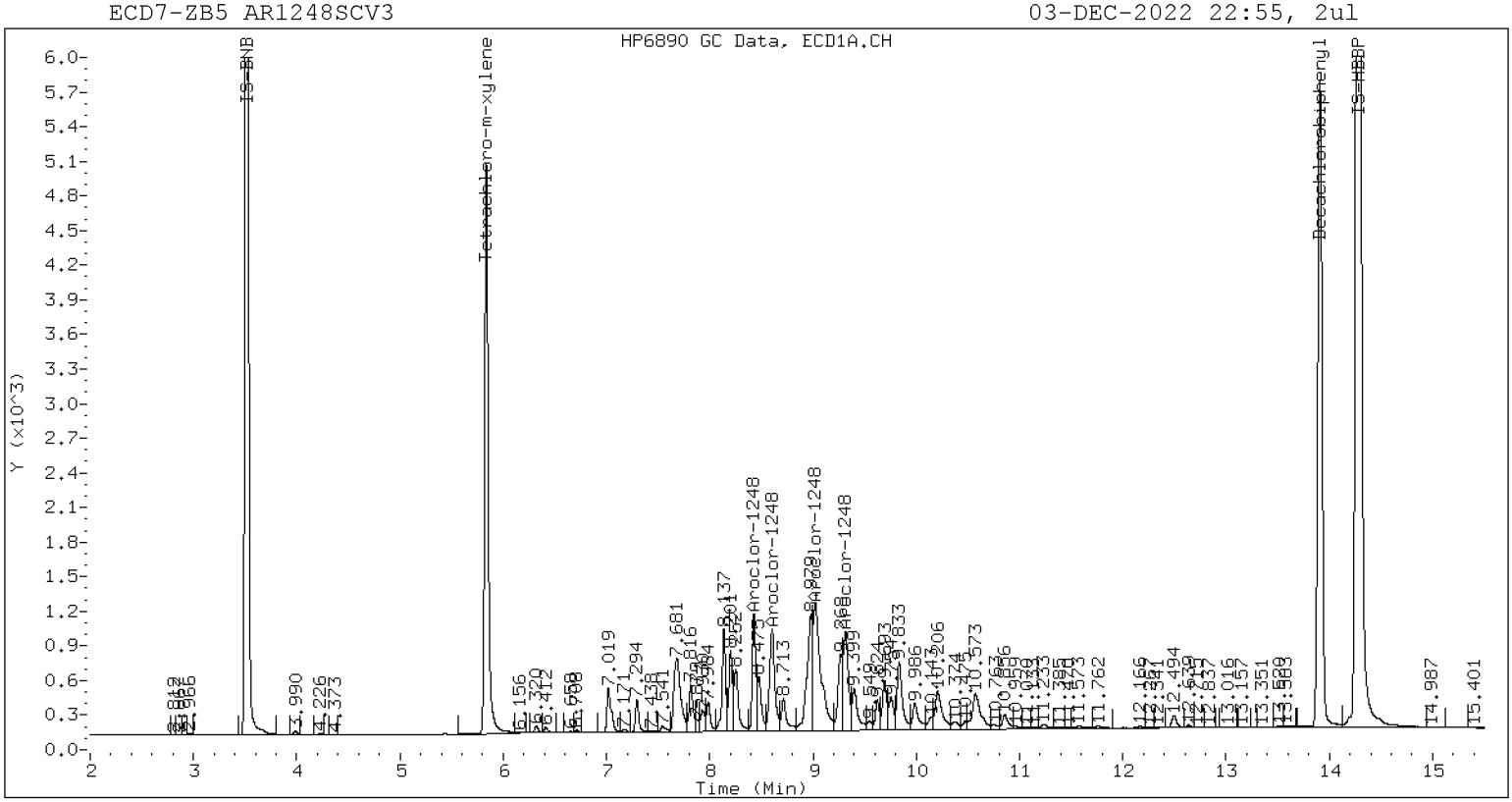
Total PCB Area Col2 (5.936 - 13.808) = 508870 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

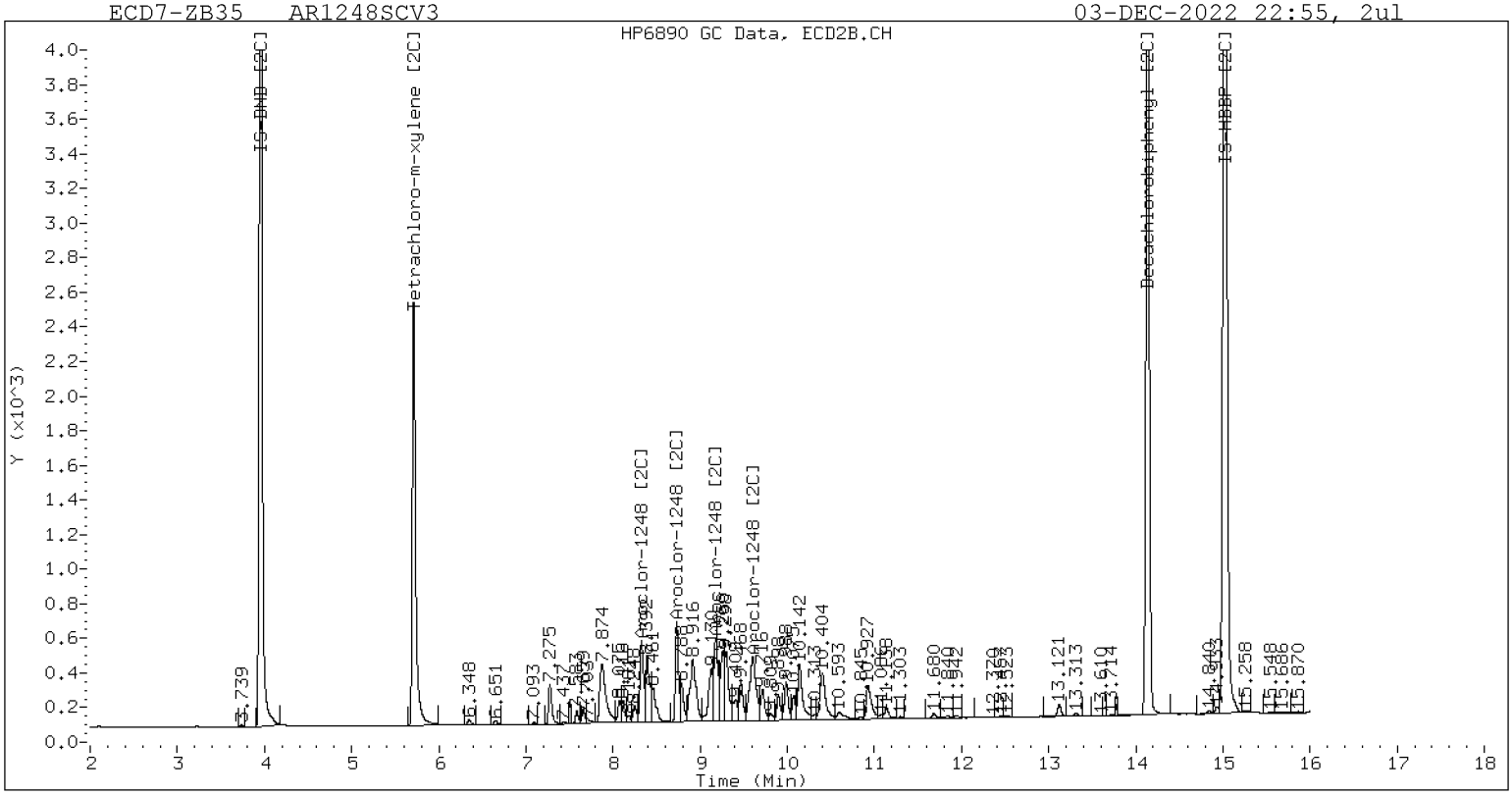
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248SCV3 03-DEC-2022 22:55, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248SCV3 03-DEC-2022 22:55, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032225ECD7.D
Data file 2: /221203.b/221203.b/12032225ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254SCV4
Client ID:
Injection Date: 03-DEC-2022 23:17
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	243863	5.713	-0.000	133610	35.5	36.0	1.4	Tetrachloro-m-xylene
13.909	0.001	332566	14.137	-0.000	233115	39.5	38.1	3.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	484642	8.3
Hexabromobiphenyl	798898	917405	14.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270782	8.7
Hexabromobiphenyl	362541	431238	18.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1254	1	9.321	0.003	94448	221.3	1	9.469	0.002	39410	225.7
Aroclor-1254	2	9.401	0.003	41171	248.1	2	9.989	0.002	31415	223.8
Aroclor-1254	3	9.692	0.004	60946	226.1	3	10.143	0.004	66244	219.6
Aroclor-1254	4	9.832	0.004	116490	221.7	4	10.392	0.003	70095	224.3
Aroclor-1254	5	10.199	0.005	80050	222.3	5	10.588	0.002	39206	260.2
		Total Col1Ave (5 peaks):			227.9		Total Col2Ave (5 peaks):			230.7 RPD = 1
		Corrected Ave (4 peaks):			222.9		Corrected Ave (4 peaks):			223.4 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 1261470 Col1 Total PCB = 0.2 ppm*

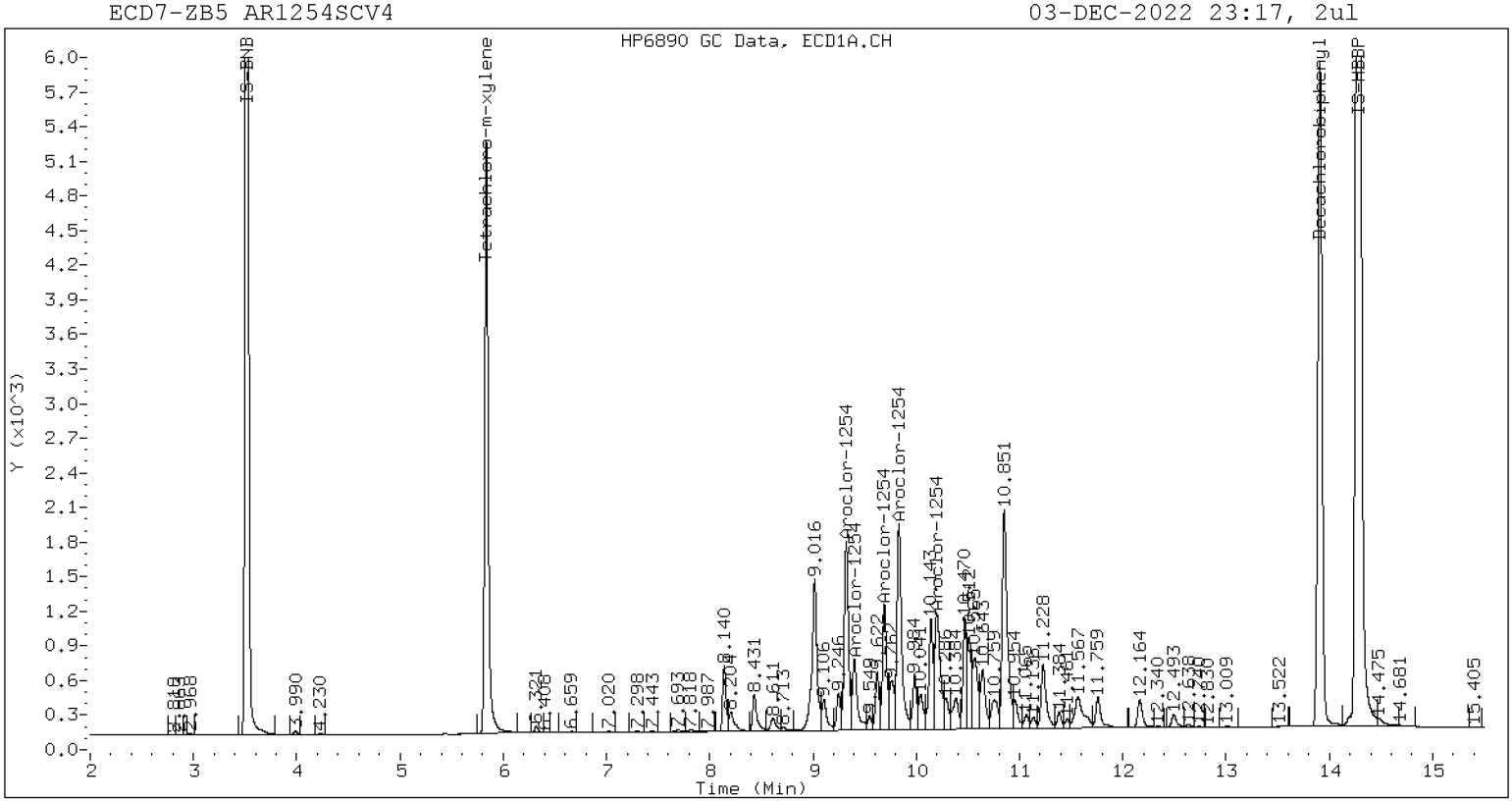
Total PCB Area Col2 (5.936 - 13.808) = 664781 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

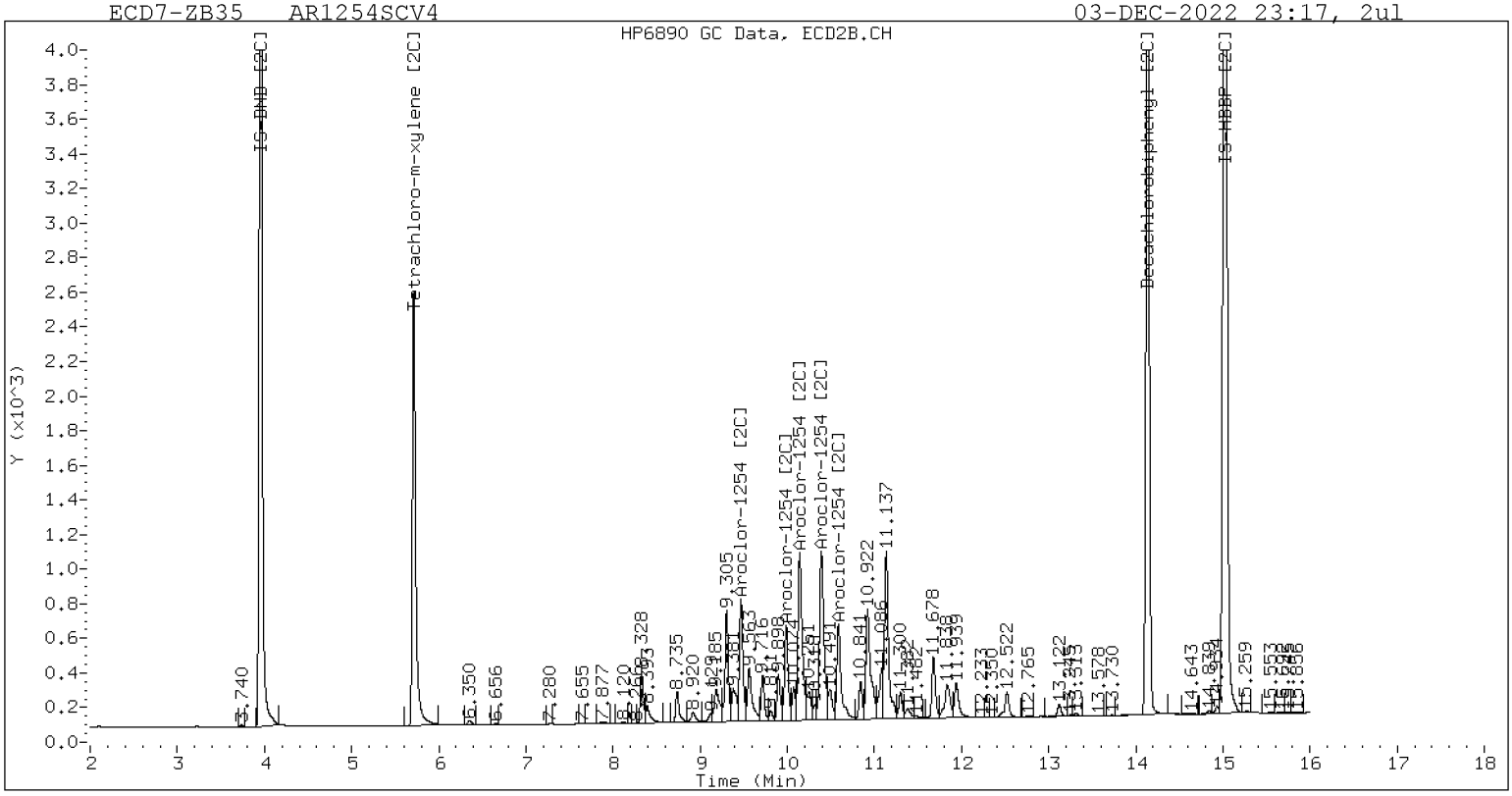
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254SCV4 03-DEC-2022 23:17, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254SCV4 03-DEC-2022 23:17, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032226ECD7.D
Data file 2: /221203.b/221203.b/12032226ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR2162.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162SCV5
Client ID:
Injection Date: 03-DEC-2022 23:38
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	0.000	246394	5.713	-0.000	131378	36.1	35.7	1.1	Tetrachloro-m-xylene
13.908	-0.001	334929	14.136	-0.001	237241	40.0	38.4	4.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	482097	7.7
Hexabromobiphenyl	798898	913775	14.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	268757	7.9
Hexabromobiphenyl	362541	434790	19.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1221	1	4.761	0.001	9579	240.4	1	4.988	0.001	5527	243.7
Aroclor-1221	2	6.159	0.001	16402	233.6	2	6.323	0.001	10041	232.3
Aroclor-1221	3	6.410	0.001	38315	236.6	3	6.646	0.001	16814	231.1
Total Col1Ave (3 peaks):					236.8	Total Col2Ave (3 peaks):				235.7 RPD = 0
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1262	1	10.845	-0.003	145305	475.5	1	11.216	-0.001	152840	462.3
Aroclor-1262	2	12.261	-0.001	222795	469.0	2	11.668	-0.002	131097	457.9
Aroclor-1262	3	12.336	-0.001	238475	470.0	3	12.449	-0.002	148386	469.8
Aroclor-1262	4	13.004	-0.001	188009	461.7	4	12.518	-0.001	231081	467.1
Total Col1Ave (4 peaks):					469.1	Total Col2Ave (4 peaks):				464.3 RPD = 1
Corrected Ave (3 peaks):					466.9	Corrected Ave (3 peaks):				462.4 RPD = 1

Total PCB Area Col1 (5.936 - 13.808) = 3654831 Col1 Total PCB = 0.7 ppm*

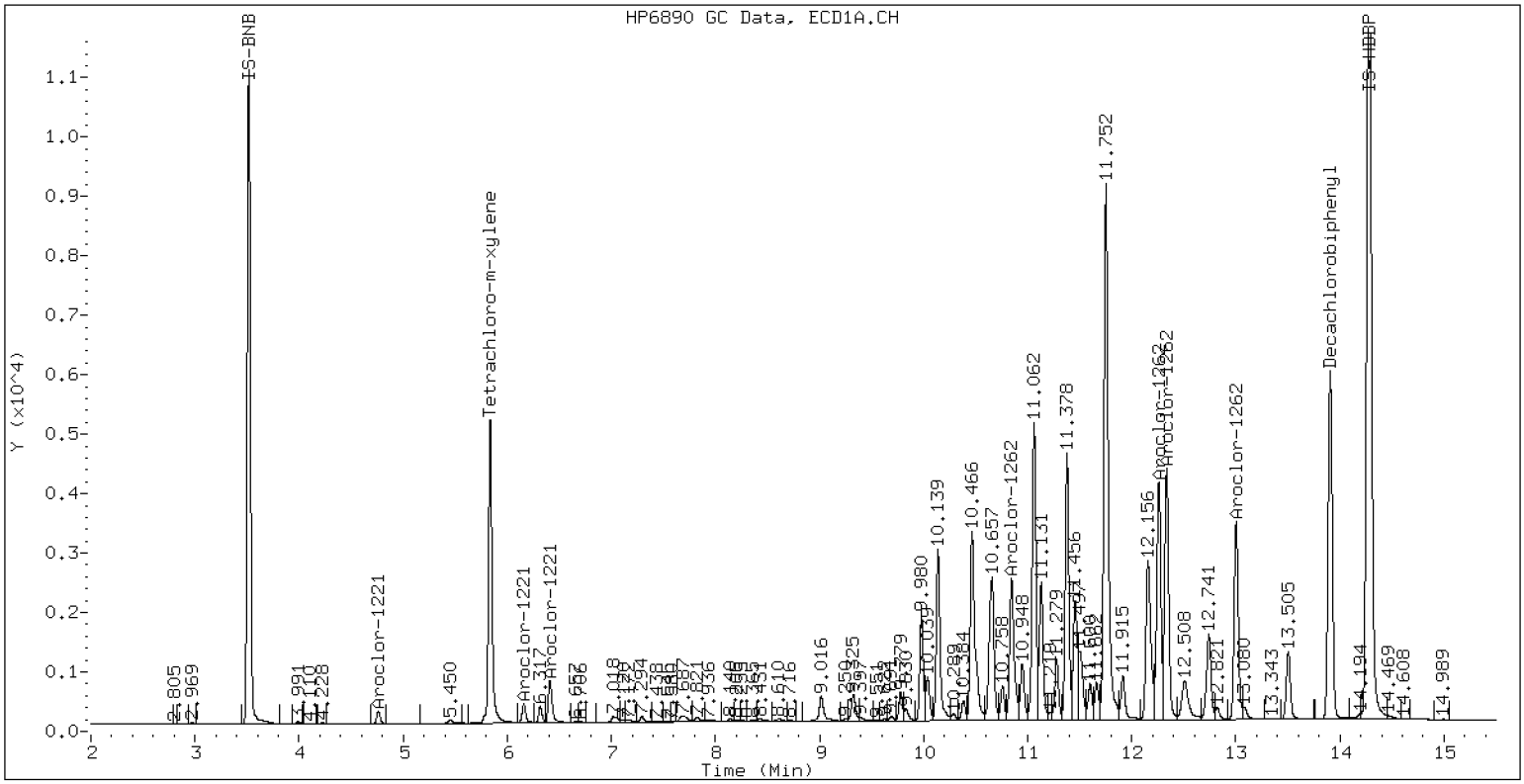
Total PCB Area Col2 (5.936 - 13.808) = 2063978 Col2 Total PCB = 1.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

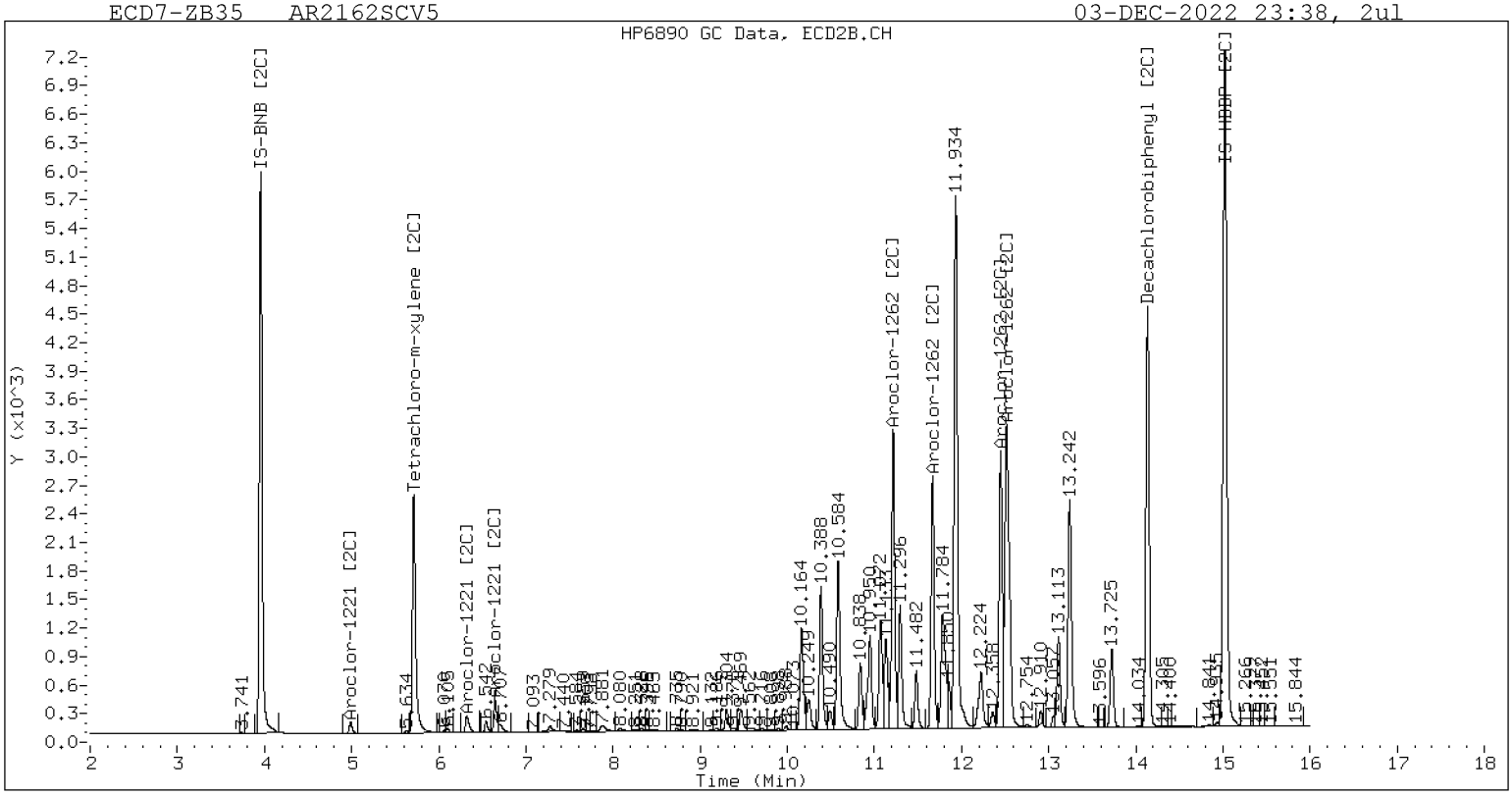
PCB Dual Column Chromatograms

ECD7-ZB5 AR2162SCV5 03-DEC-2022 23:38, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR2162SCV5 03-DEC-2022 23:38, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032227ECD7.D
Data file 2: /221203.b/221203.b/12032227ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR3268.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268SCV6
Client ID:
Injection Date: 03-DEC-2022 23:59
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.834	-0.002	236120	5.711	-0.002	126782	34.5	34.2	0.7	Tetrachloro-m-xylene
13.907	-0.002	474236	14.136	-0.001	339687	56.2	54.9	2.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	483276	8.0
Hexabromobiphenyl	798898	920878	15.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270175	8.5
Hexabromobiphenyl	362541	435731	20.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1232	1	4.758	-0.003	5334	221.8	1	4.986	-0.004	3031	230.7
Aroclor-1232	2	6.158	-0.002	9882	194.6	2	7.276	-0.001	14982	223.3
Aroclor-1232	3	7.684	0.000	51409	225.4	3	7.875	-0.001	29992	228.7
Aroclor-1232	4	8.607	0.001	21710	224.4	4	8.734	0.000	8467	238.1
Total Col1Ave (4 peaks):					216.5	Total Col2Ave (4 peaks):				230.2 RPD = 6
Corrected Ave (3 peaks):					213.6	Corrected Ave (3 peaks):				227.6 RPD = 6
Aroclor-1268	1	12.262	-0.000	296463	230.1	1	12.449	-0.000	189354	230.2
Aroclor-1268	2	12.336	0.001	294353	233.5	2	12.517	0.000	196449	232.9
Aroclor-1268	3	12.715	-0.001	238693	231.1	3	12.909	-0.001	66881	213.9
Aroclor-1268	4	13.506	0.001	725881	230.1	4	13.725	-0.001	525890	233.7
Total Col1Ave (4 peaks):					231.2	Total Col2Ave (4 peaks):				227.7 RPD = 2
Corrected Ave (3 peaks):					230.4	Corrected Ave (3 peaks):				225.7 RPD = 2

Total PCB Area Col1 (5.936 - 13.808) = 2353838 Col1 Total PCB = 0.4 ppm*

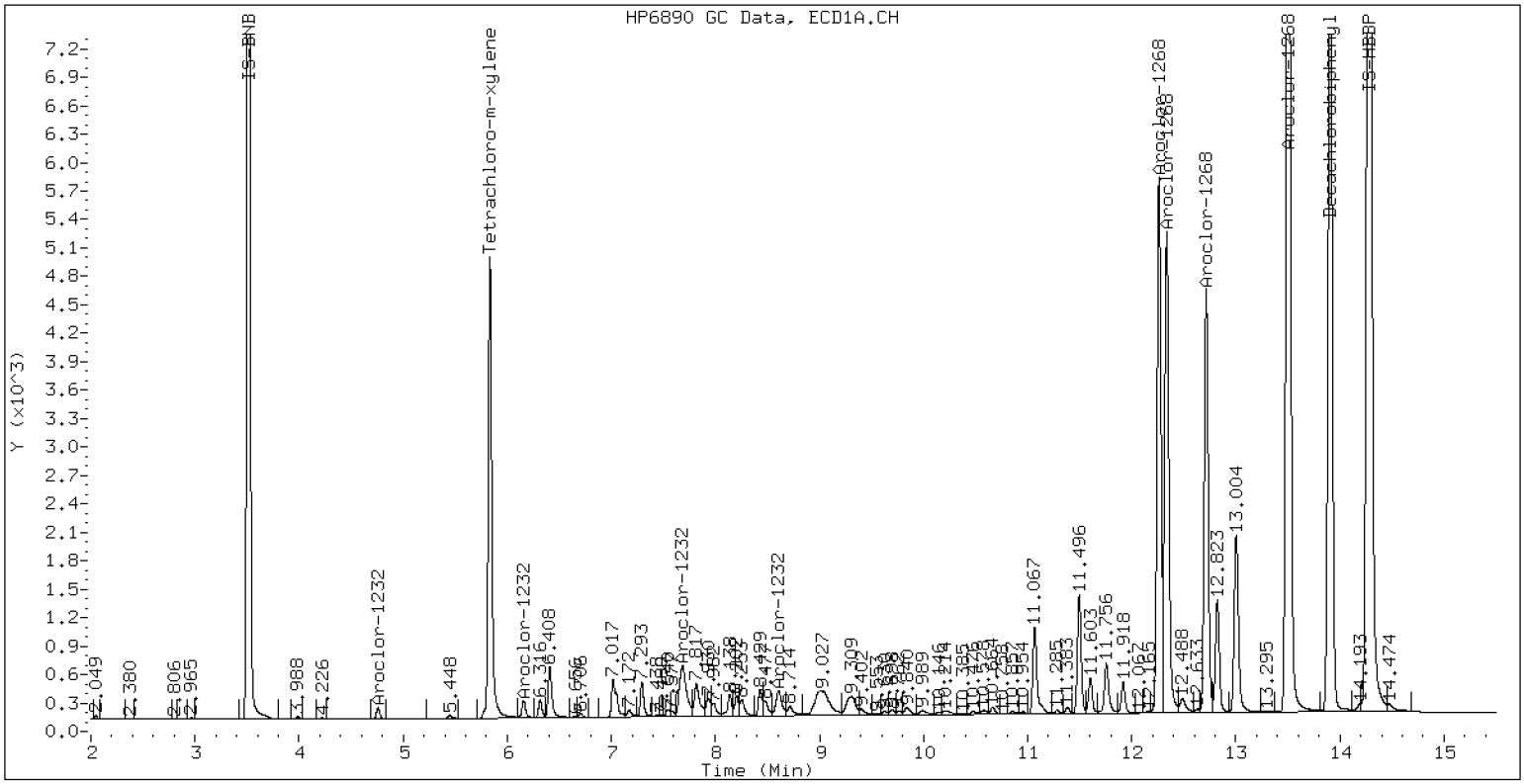
Total PCB Area Col2 (5.936 - 13.808) = 1423323 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

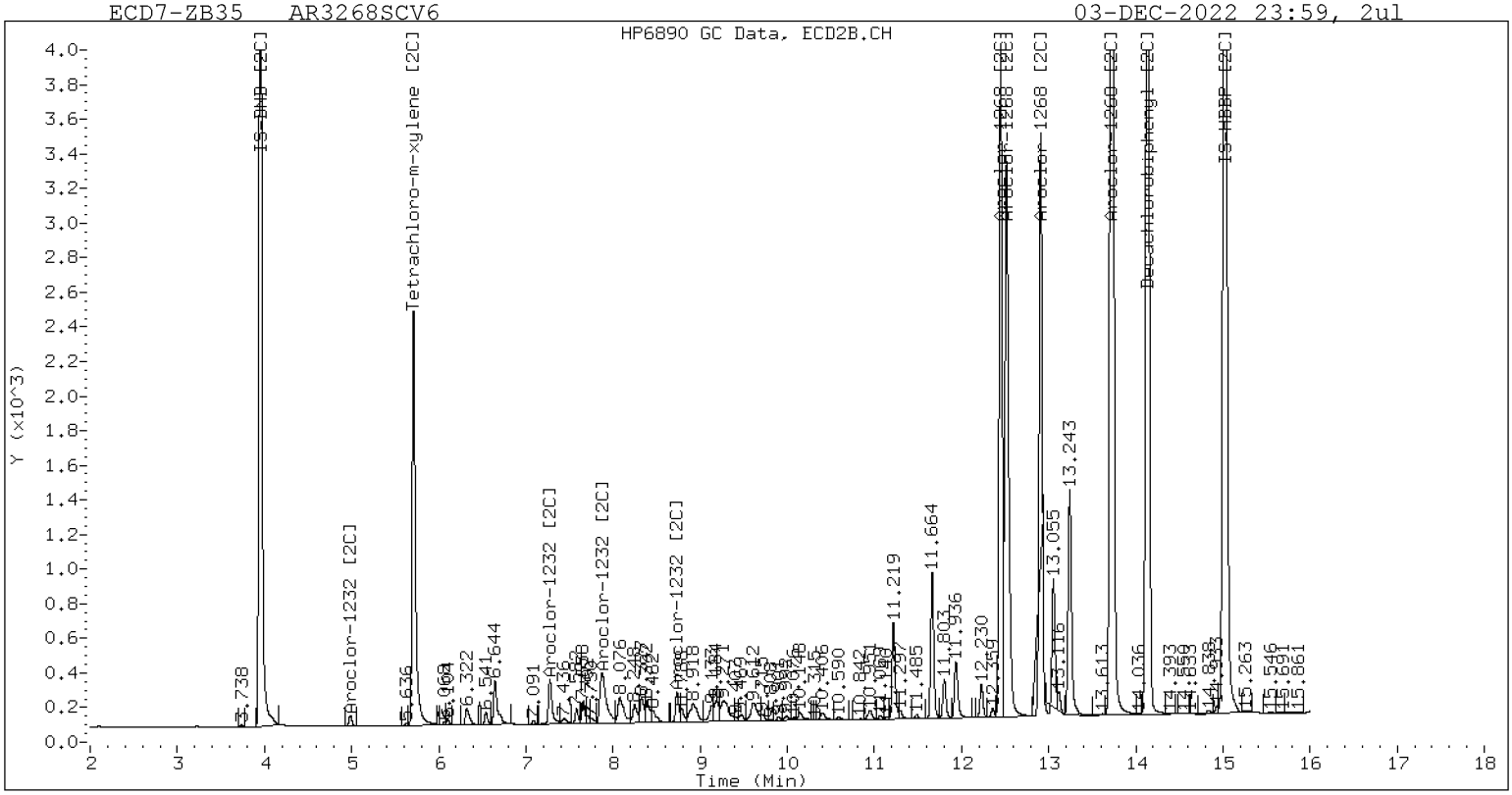
PCB Dual Column Chromatograms

ECD7-ZB5 AR3268SCV6 03-DEC-2022 23:59, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268SCV6 03-DEC-2022 23:59, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00010
Laboratory ID: SKL0048-SCV1
Sequence: SKL0048
Sequence Name: AR1660SCV1
Standard ID: K007655

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1016	250.00	223	-10.7	20.00
Aroclor 1016 [2C]	250.00	216	-13.5	20.00
Aroclor 1260	250.00	285	14.1	20.00
Aroclor 1260 [2C]	250.00	263	5.1	20.00
Decachlorobiphenyl	40.000	39.8	-0.5	20.00
Tetrachlorometaxylene	40.000	36.1	-9.7	20.00
Decachlorobiphenyl [2C]	40.000	38.2	-4.6	20.00
Tetrachlorometaxylene [2C]	40.000	36.1	-9.8	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032222ECD7.D
Data file 2: /221203.b/221203.b/12032222ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660SCV1
Client ID:
Injection Date: 03-DEC-2022 22:13
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	247495	5.714	0.000	133904	36.1	36.1	0.2	Tetrachloro-m-xylene
13.909	0.001	325466	14.137	0.000	234467	39.8	38.2	4.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	483506	8.0
Hexabromobiphenyl	798898	892033	11.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270882	8.7
Hexabromobiphenyl	362541	432562	19.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.293	0.001	36100	223.8	1	7.277	0.002	30155	217.7
Aroclor-1016	2	7.681	0.007	113995	218.9	2	7.875	0.004	64468	215.8
Aroclor-1016	3	7.815	0.004	53043	224.8	3	8.074	0.004	27130	211.5
Aroclor-1016	4	8.428	0.004	33958	225.7	4	8.245	0.004	14848	220.1
Total Col1Ave (4 peaks):					223.3	Total Col2Ave (4 peaks):				216.3 RPD = 3
Corrected Ave (3 peaks):					222.5	Corrected Ave (3 peaks):				215.0 RPD = 3
Aroclor-1260	1	11.063	0.001	93173	286.9	1	11.671	0.002	56796	248.7
Aroclor-1260	2	11.380	0.003	95530	284.5	2	11.935	0.002	153247	267.5
Aroclor-1260	3	11.754	0.004	250548	283.9	3	12.452	0.001	41316	270.8
Aroclor-1260	4	12.159	0.005	120399	267.9	4	12.519	0.003	100704	263.7
Aroclor-1260	5	12.263	0.003	55639	302.5	NS	---			----
Total Col1Ave (5 peaks):					285.1	Total Col2Ave (4 peaks):				262.7 RPD = 8
Corrected Ave (4 peaks):					280.8	Corrected Ave (3 peaks):				260.0 RPD = 8

Total PCB Area Col1 (5.936 - 13.808) = 2318083 Col1 Total PCB = 0.4 ppm*

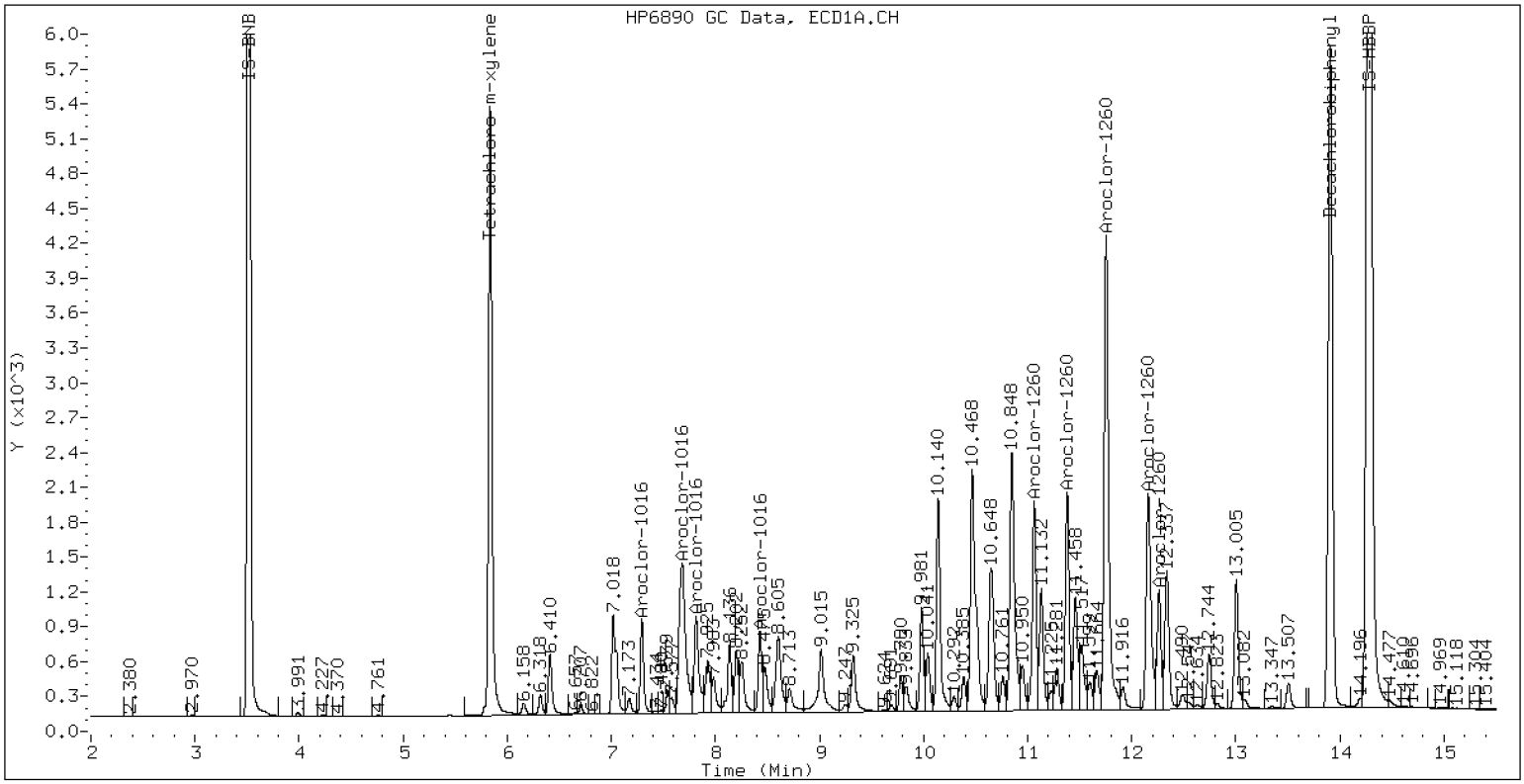
Total PCB Area Col2 (5.936 - 13.808) = 1275603 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

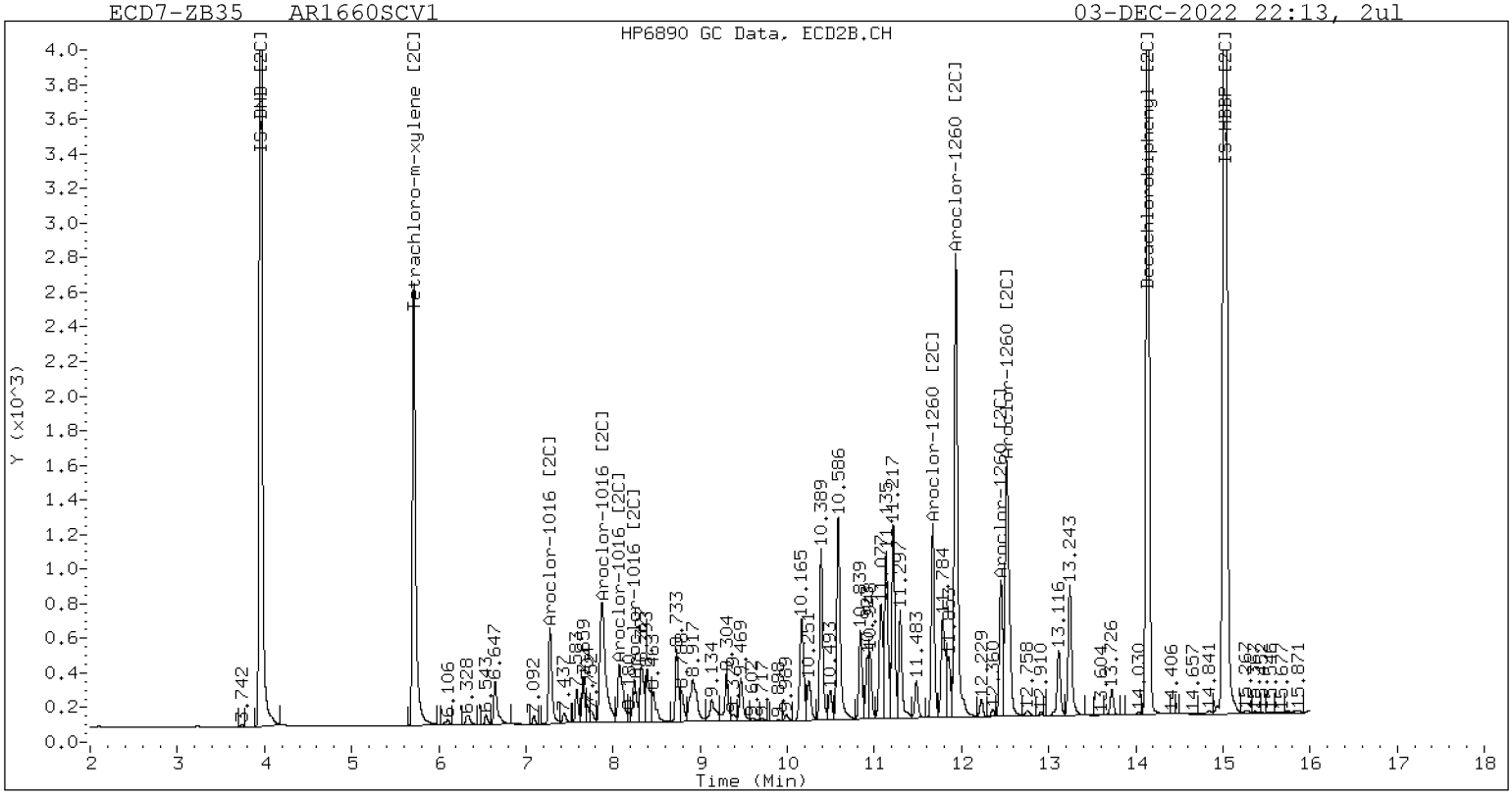
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660SCV1 03-DEC-2022 22:13, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660SCV1 03-DEC-2022 22:13, 2ul



ZB-35 Manual Integration: NO

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00010
Laboratory ID: SKL0048-SCV2
Sequence: SKL0048
Sequence Name: AR1242SCV2
Standard ID: K007656

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1242	250.00	207	-17.3	20.00
Aroclor 1242 [2C]	250.00	225	-10.0	20.00
Decachlorobiphenyl	40.000	39.1	-2.1	20.00
Tetrachlorometaxylene	40.000	35.6	-11.1	20.00
Decachlorobiphenyl [2C]	40.000	38.0	-5.0	20.00
Tetrachlorometaxylene [2C]	40.000	35.8	-10.5	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032223ECD7.D
Data file 2: /221203.b/221203.b/12032223ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242SCV2
Client ID:
Injection Date: 03-DEC-2022 22:34
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.000	242356	5.713	-0.001	132586	35.6	35.8	0.7	Tetrachloro-m-xylene
13.909	0.001	321690	14.136	-0.001	228130	39.1	38.0	2.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	480791	7.4
Hexabromobiphenyl	798898	896515	12.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270117	8.4
Hexabromobiphenyl	362541	422729	16.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.294	0.000	26316	193.1	1	7.277	-0.001	23973	209.7
Aroclor-1242	2	7.677	-0.003	89703	207.3	2	7.873	-0.002	50204	206.9
Aroclor-1242	3	8.427	0.000	26786	215.2	3	9.176	-0.002	19686	251.4
Aroclor-1242	4	9.025	-0.005	54647	211.4	4	9.599	-0.006	21874	232.4
Total Col1Ave (4 peaks):					206.7	Total Col2Ave (4 peaks):				225.1 RPD = 9
Corrected Ave (3 peaks):					203.9	Corrected Ave (3 peaks):				216.3 RPD = 6

Total PCB Area Col1 (5.936 - 13.808) = 731052 Col1 Total PCB = 0.1 ppm*

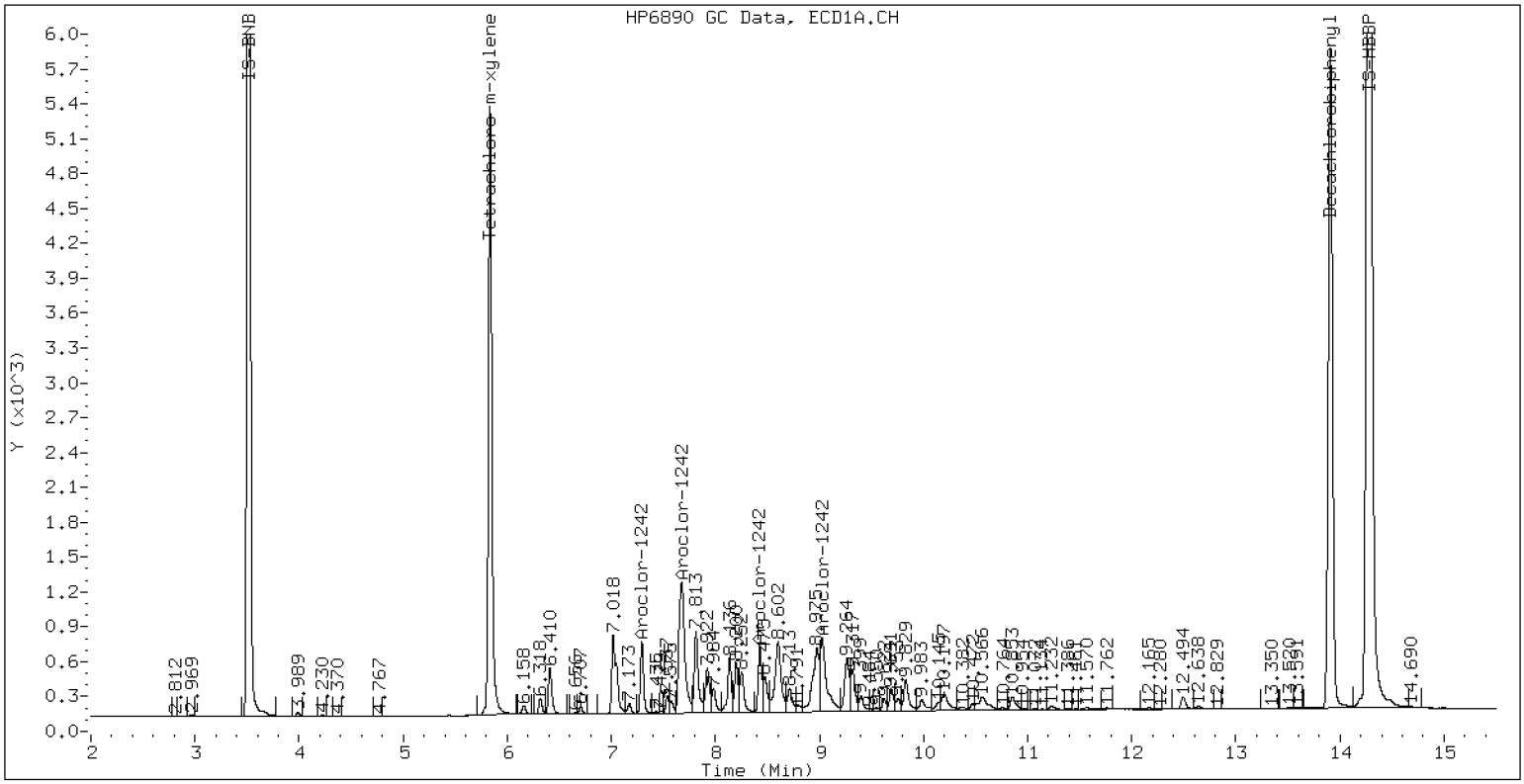
Total PCB Area Col2 (5.936 - 13.808) = 398143 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

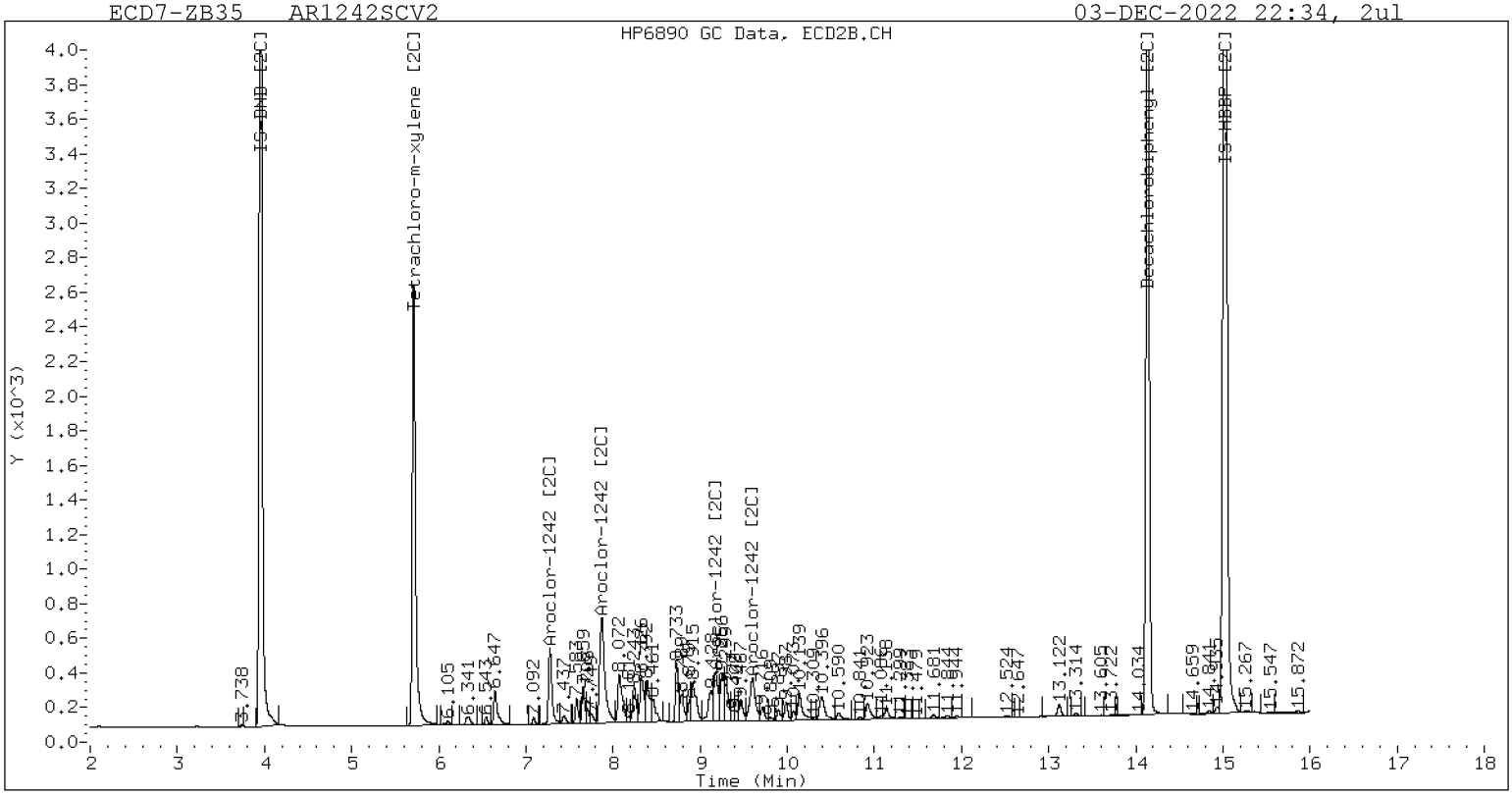
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242SCV2 03-DEC-2022 22:34, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242SCV2 03-DEC-2022 22:34, 2ul



ZB-35 Manual Integration: NO

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00010
Laboratory ID: SKL0048-SCV3
Sequence: SKL0048
Sequence Name: AR1248SCV3
Standard ID: K007657

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1248	250.00	246	-1.8	20.00
Aroclor 1248 [2C]	250.00	230	-7.9	20.00
Decachlorobiphenyl	40.000	39.3	-1.7	20.00
Tetrachlorometaxylene	40.000	34.7	-13.2	20.00
Decachlorobiphenyl [2C]	40.000	38.1	-4.8	20.00
Tetrachlorometaxylene [2C]	40.000	35.1	-12.3	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032224ECD7.D
Data file 2: /221203.b/221203.b/12032224ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248SCV3
Client ID:
Injection Date: 03-DEC-2022 22:55
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	238518	5.713	-0.001	130772	34.7	35.1	1.0	Tetrachloro-m-xylene
13.909	0.001	329816	14.137	0.000	230748	39.3	38.1	3.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	484977	8.3
Hexabromobiphenyl	798898	915518	14.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	272055	9.2
Hexabromobiphenyl	362541	426674	17.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.427	-0.000	49184	235.9	1	8.326	0.000	25647	230.8
Aroclor-1248	2	8.604	0.002	62884	236.2	2	8.733	0.000	26944	230.5
Aroclor-1248	3	9.021	-0.002	117065	244.4	3	9.179	0.001	32692	229.9
Aroclor-1248	4	9.315	0.000	62309	265.6	4	9.604	0.002	38342	229.7
Total Col1Ave (4 peaks): 245.5						Total Col2Ave (4 peaks): 230.2			RPD = 6	
Corrected Ave (3 peaks): 238.8						Corrected Ave (3 peaks): 230.0			RPD = 4	

Total PCB Area Col1 (5.936 - 13.808) = 991353 Col1 Total PCB = 0.2 ppm*

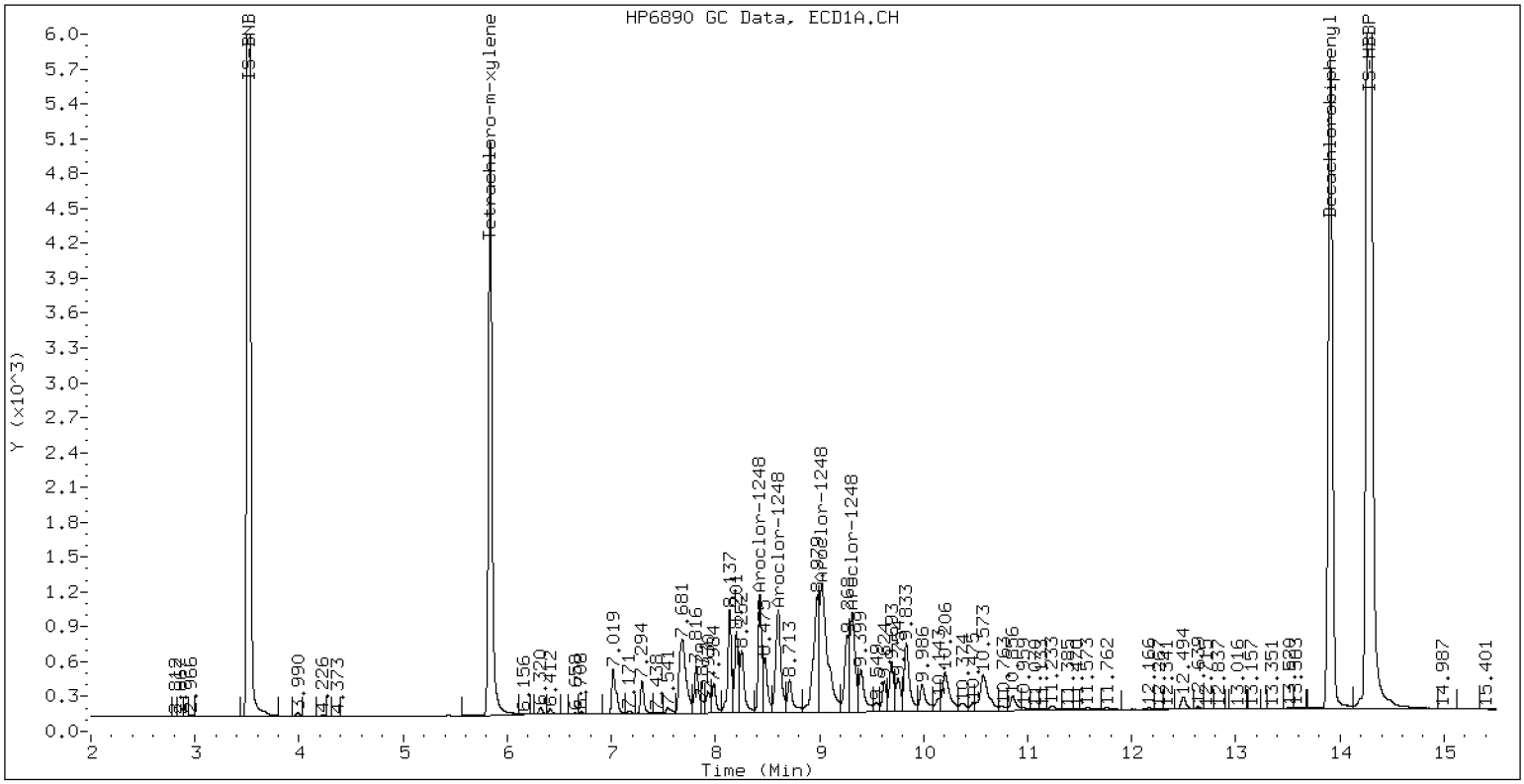
Total PCB Area Col2 (5.936 - 13.808) = 508870 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

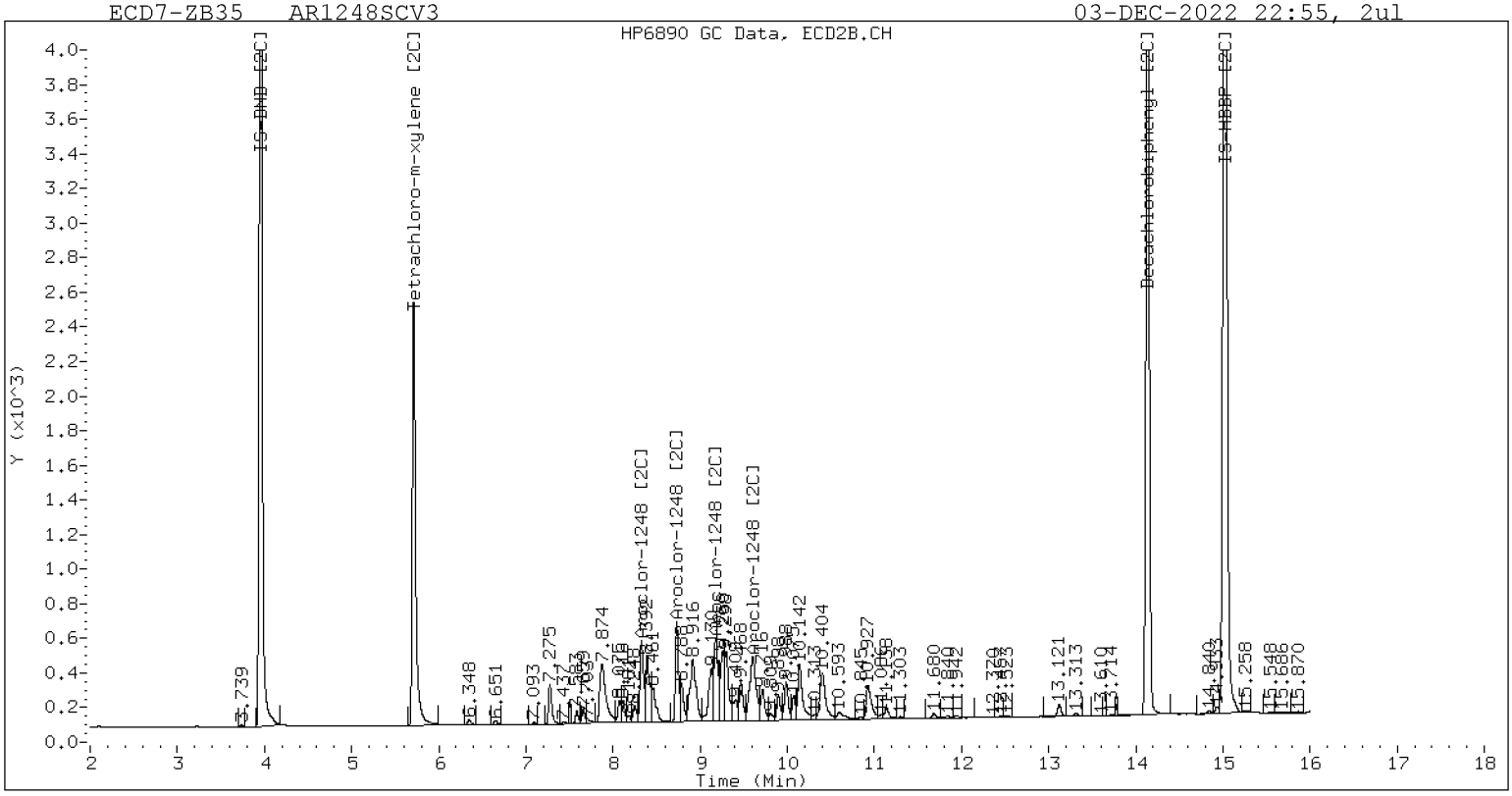
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248SCV3 03-DEC-2022 22:55, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248SCV3 03-DEC-2022 22:55, 2ul



ZB-35 Manual Integration: NO

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00010
Laboratory ID: SKL0048-SCV4
Sequence: SKL0048
Sequence Name: AR1254SCV4
Standard ID: K007658

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1254	250.00	228	-8.8	20.00
Aroclor 1254 [2C]	250.00	231	-7.7	20.00
Decachlorobiphenyl	40.000	39.5	-1.1	20.00
Tetrachlorometaxylene	40.000	35.5	-11.2	20.00
Decachlorobiphenyl [2C]	40.000	38.1	-4.8	20.00
Tetrachlorometaxylene [2C]	40.000	36.0	-10.0	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032225ECD7.D
Data file 2: /221203.b/221203.b/12032225ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254SCV4
Client ID:
Injection Date: 03-DEC-2022 23:17
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	243863	5.713	-0.000	133610	35.5	36.0	1.4	Tetrachloro-m-xylene
13.909	0.001	332566	14.137	-0.000	233115	39.5	38.1	3.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	484642	8.3
Hexabromobiphenyl	798898	917405	14.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270782	8.7
Hexabromobiphenyl	362541	431238	18.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.321	0.003	94448	221.3	1	9.469	0.002	39410	225.7
Aroclor-1254	2	9.401	0.003	41171	248.1	2	9.989	0.002	31415	223.8
Aroclor-1254	3	9.692	0.004	60946	226.1	3	10.143	0.004	66244	219.6
Aroclor-1254	4	9.832	0.004	116490	221.7	4	10.392	0.003	70095	224.3
Aroclor-1254	5	10.199	0.005	80050	222.3	5	10.588	0.002	39206	260.2

Total Col1Ave (5 peaks): 227.9 Total Col2Ave (5 peaks): 230.7 RPD = 1

Corrected Ave (4 peaks): 222.9 Corrected Ave (4 peaks): 223.4 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 1261470 Col1 Total PCB = 0.2 ppm*

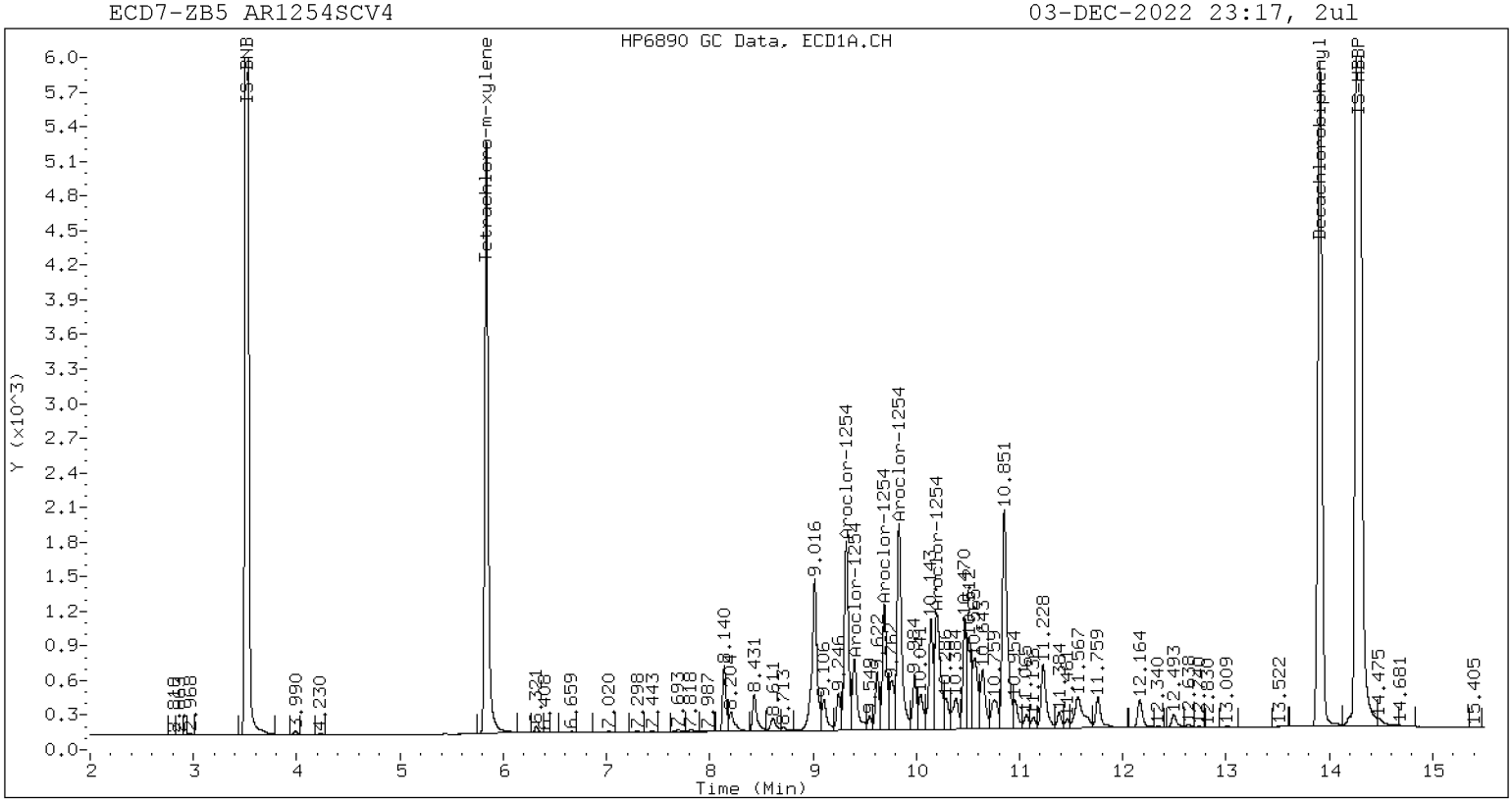
Total PCB Area Col2 (5.936 - 13.808) = 664781 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

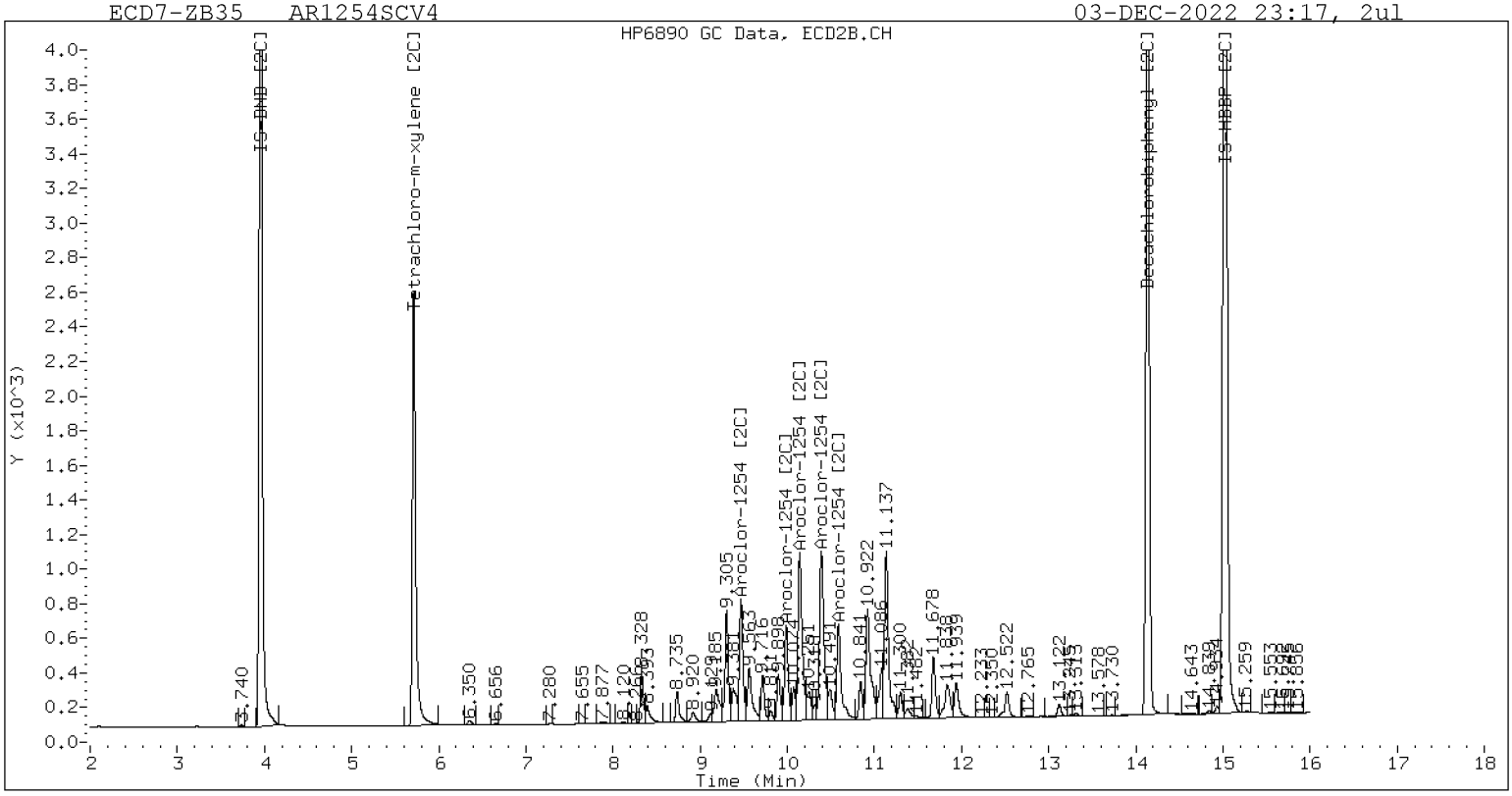
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254SCV4 03-DEC-2022 23:17, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254SCV4 03-DEC-2022 23:17, 2ul



ZB-35 Manual Integration: NO

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00010
Laboratory ID: SKL0048-SCV5
Sequence: SKL0048
Sequence Name: AR2162SCV5
Standard ID: K007659

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1221	250.00	237	-5.3	20.00
Aroclor 1221 [2C]	250.00	236	-5.7	20.00
Aroclor 1262	500.00	469	-6.2	20.00
Aroclor 1262 [2C]	500.00	464	-7.1	20.00
Decachlorobiphenyl	40.000	40.0	-0.04	20.00
Tetrachlorometaxylene	40.000	36.1	-9.8	20.00
Decachlorobiphenyl [2C]	40.000	38.4	-3.9	20.00
Tetrachlorometaxylene [2C]	40.000	35.7	-10.8	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032226ECD7.D
Data file 2: /221203.b/221203.b/12032226ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR2162.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162SCV5
Client ID:
Injection Date: 03-DEC-2022 23:38
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	0.000	246394	5.713	-0.000	131378	36.1	35.7	1.1	Tetrachloro-m-xylene
13.908	-0.001	334929	14.136	-0.001	237241	40.0	38.4	4.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	482097	7.7
Hexabromobiphenyl	798898	913775	14.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	268757	7.9
Hexabromobiphenyl	362541	434790	19.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1221	1	4.761	0.001	9579	240.4	1	4.988	0.001	5527	243.7
Aroclor-1221	2	6.159	0.001	16402	233.6	2	6.323	0.001	10041	232.3
Aroclor-1221	3	6.410	0.001	38315	236.6	3	6.646	0.001	16814	231.1
Total Col1Ave (3 peaks):					236.8	Total Col2Ave (3 peaks):				235.7 RPD = 0
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1262	1	10.845	-0.003	145305	475.5	1	11.216	-0.001	152840	462.3
Aroclor-1262	2	12.261	-0.001	222795	469.0	2	11.668	-0.002	131097	457.9
Aroclor-1262	3	12.336	-0.001	238475	470.0	3	12.449	-0.002	148386	469.8
Aroclor-1262	4	13.004	-0.001	188009	461.7	4	12.518	-0.001	231081	467.1
Total Col1Ave (4 peaks):					469.1	Total Col2Ave (4 peaks):				464.3 RPD = 1
Corrected Ave (3 peaks):					466.9	Corrected Ave (3 peaks):				462.4 RPD = 1

Total PCB Area Col1 (5.936 - 13.808) = 3654831 Col1 Total PCB = 0.7 ppm*

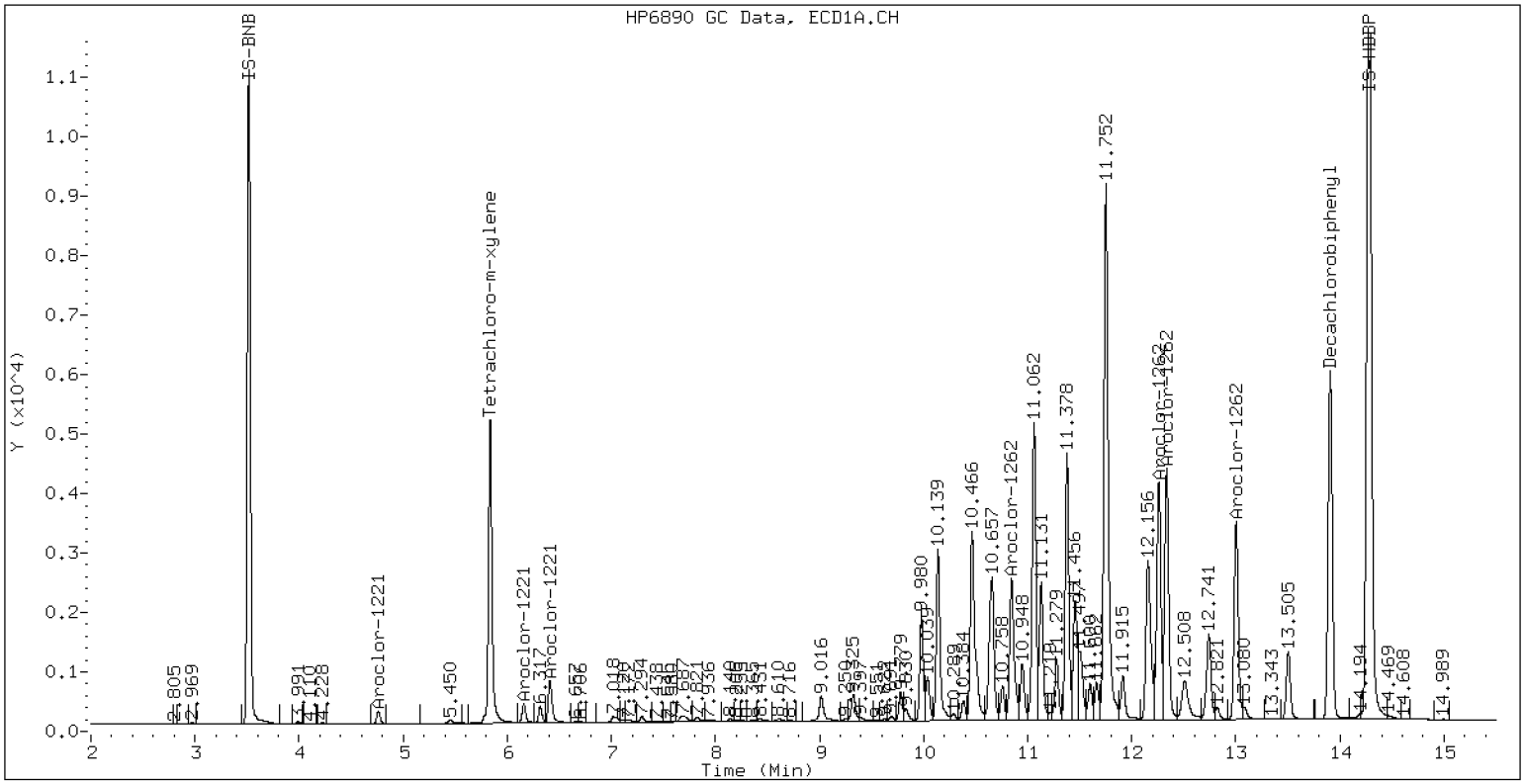
Total PCB Area Col2 (5.936 - 13.808) = 2063978 Col2 Total PCB = 1.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

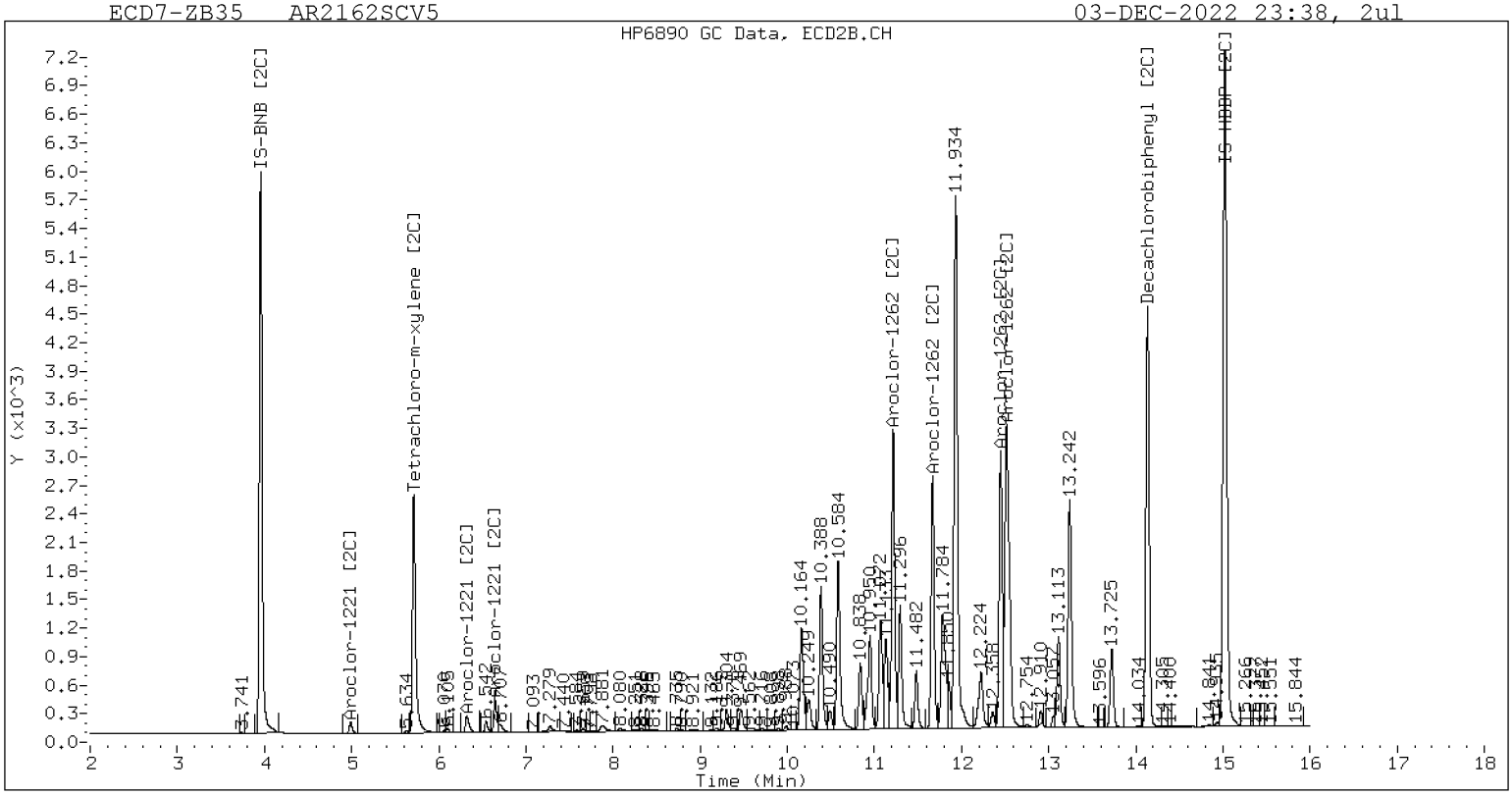
PCB Dual Column Chromatograms

ECD7-ZB5 AR2162SCV5 03-DEC-2022 23:38, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR2162SCV5 03-DEC-2022 23:38, 2ul



ZB-35 Manual Integration: NO

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00010
Laboratory ID: SKL0048-SCV6
Sequence: SKL0048
Sequence Name: AR3268SCV6
Standard ID: K007660

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1232	250.00	217	-13.4	20.00
Aroclor 1232 [2C]	250.00	230	-7.9	20.00
Aroclor 1268	250.00	231	-7.5	20.00
Aroclor 1268 [2C]	250.00	228	-8.9	20.00
Decachlorobiphenyl	40.000	56.2	40.4	20.00
Tetrachlorometaxylene	40.000	34.5	-13.8	20.00
Decachlorobiphenyl [2C]	40.000	54.9	37.3	20.00
Tetrachlorometaxylene [2C]	40.000	34.2	-14.4	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032227ECD7.D
Data file 2: /221203.b/221203.b/12032227ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR3268.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268SCV6
Client ID:
Injection Date: 03-DEC-2022 23:59
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.834	-0.002	236120	5.711	-0.002	126782	34.5	34.2	0.7	Tetrachloro-m-xylene
13.907	-0.002	474236	14.136	-0.001	339687	56.2	54.9	2.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	483276	8.0
Hexabromobiphenyl	798898	920878	15.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270175	8.5
Hexabromobiphenyl	362541	435731	20.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1232	1	4.758	-0.003	5334	221.8	1	4.986	-0.004	3031	230.7
Aroclor-1232	2	6.158	-0.002	9882	194.6	2	7.276	-0.001	14982	223.3
Aroclor-1232	3	7.684	0.000	51409	225.4	3	7.875	-0.001	29992	228.7
Aroclor-1232	4	8.607	0.001	21710	224.4	4	8.734	0.000	8467	238.1
Total Col1Ave (4 peaks):					216.5	Total Col2Ave (4 peaks):				230.2 RPD = 6
Corrected Ave (3 peaks):					213.6	Corrected Ave (3 peaks):				227.6 RPD = 6
Aroclor-1268	1	12.262	-0.000	296463	230.1	1	12.449	-0.000	189354	230.2
Aroclor-1268	2	12.336	0.001	294353	233.5	2	12.517	0.000	196449	232.9
Aroclor-1268	3	12.715	-0.001	238693	231.1	3	12.909	-0.001	66881	213.9
Aroclor-1268	4	13.506	0.001	725881	230.1	4	13.725	-0.001	525890	233.7
Total Col1Ave (4 peaks):					231.2	Total Col2Ave (4 peaks):				227.7 RPD = 2
Corrected Ave (3 peaks):					230.4	Corrected Ave (3 peaks):				225.7 RPD = 2

Total PCB Area Col1 (5.936 - 13.808) = 2353838 Col1 Total PCB = 0.4 ppm*

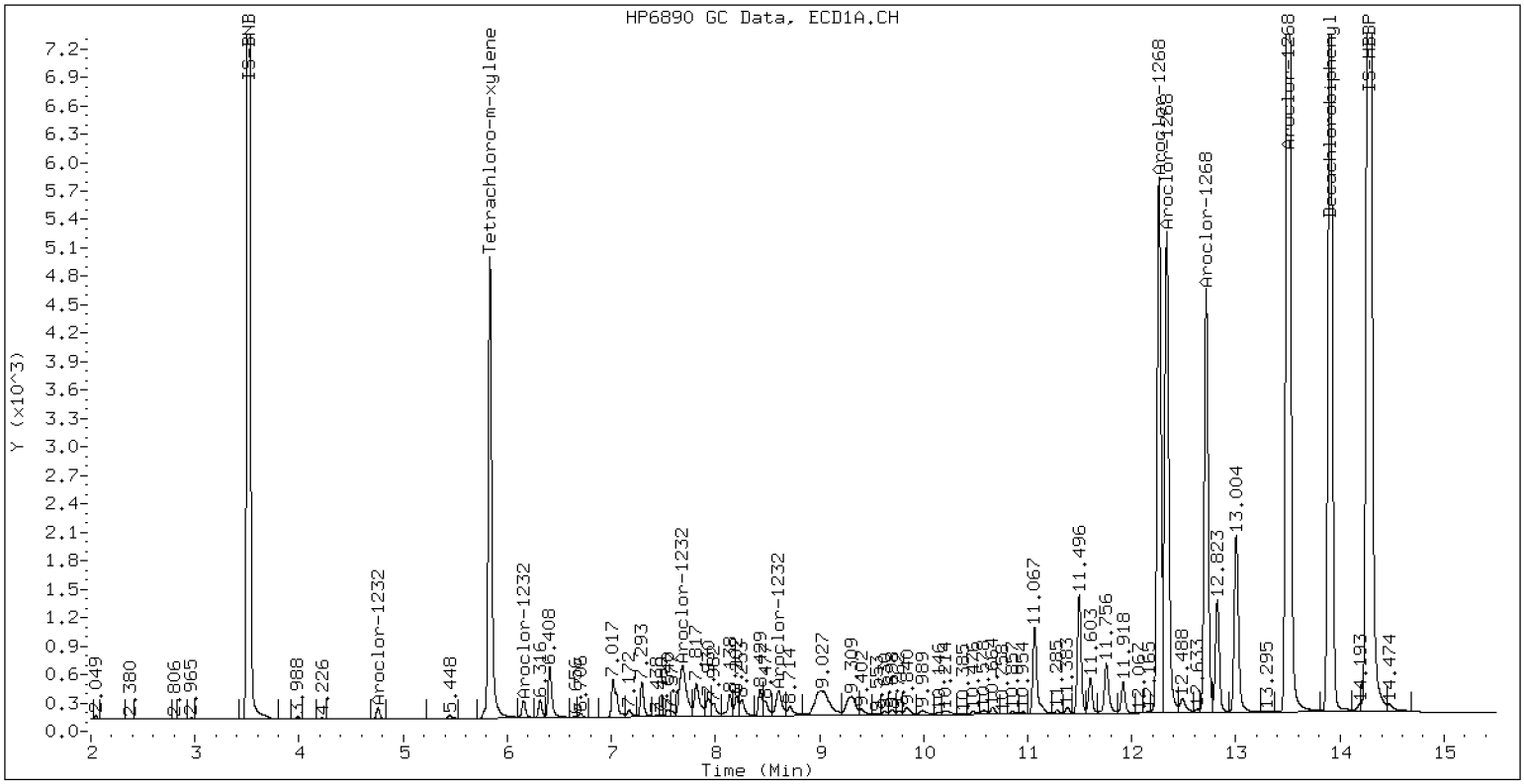
Total PCB Area Col2 (5.936 - 13.808) = 1423323 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

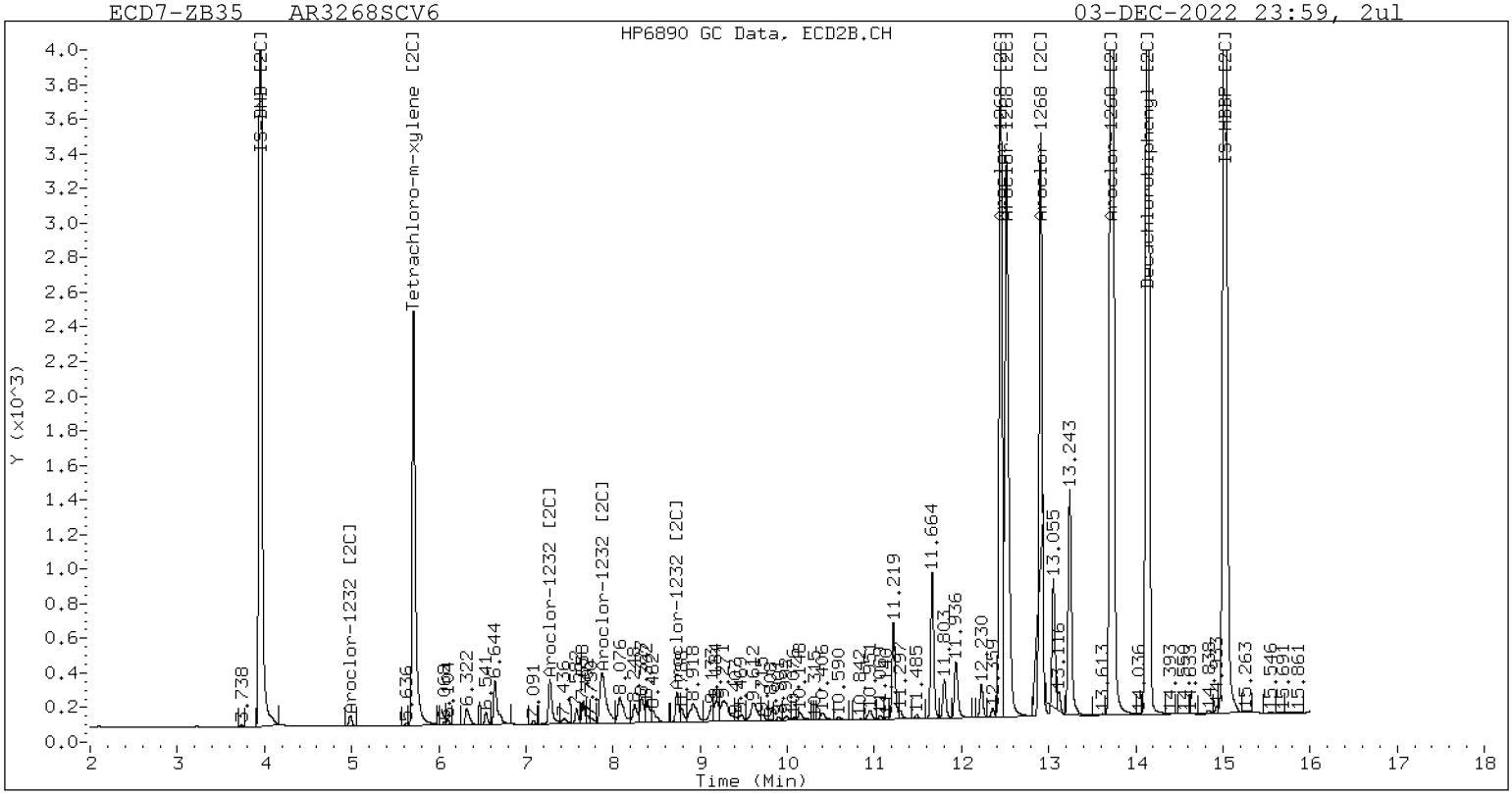
PCB Dual Column Chromatograms

ECD7-ZB5 AR3268SCV6 03-DEC-2022 23:59, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268SCV6 03-DEC-2022 23:59, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12172203ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0280	Injection Date:	12/17/22
Lab Sample ID:	SKL0280-ICV1	Injection Time:	09:59
Sequence Name:	AR1254ICV1		

		CONC. (ug/L)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Aroclor 1254	A	250.00	273	0.0576965	0.0640173		9.1	+/-20
Aroclor-1254 (1)	A	250.00	280	0.0704377	0.0789482			
Aroclor-1254 (2)	A	250.00	292	0.0273935	0.0320037			
Aroclor-1254 (3)	A	250.00	191	0.0444885	0.0339349			
Aroclor-1254 (4)	A	250.00	295	0.0867185	0.1023397			
Aroclor-1254 (5)	A	250.00	306	0.0594444	0.0728599			
Aroclor 1254 [2C]	A	250.00	253	0.0638047	0.0652171		1.3	+/-20
Aroclor-1254 (1) [2C]	A	250.00	263	0.0515798	0.0542031			
Aroclor-1254 (2) [2C]	A	250.00	205	0.0414689	0.0340182			
Aroclor-1254 (3) [2C]	A	250.00	243	0.0891370	0.0868021			
Aroclor-1254 (4) [2C]	A	250.00	274	0.0923140	0.1010644			
Aroclor-1254 (5) [2C]	A	250.00	281	0.0445236	0.0499976			
Decachlorobiphenyl	A	40.000	41.8	0.7333327	0.7666939		4.5	+/-20
Tetrachlorometaxylene	A	40.000	37.9	1.1336710	1.0737050		-5.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.8	1.1358180	1.1020210		-3.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.2	1.0966080	1.0193470		-7.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172203ECD7.D
Data file 2: /221217.b/221217.b/12172203ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254ICV1
Client ID:
Injection Date: 17-DEC-2022 09:59
Report Date: 12/20/2022 15:07
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	0.000	226665	5.712	0.002	128134	37.9	37.2	1.9	Tetrachloro-m-xylene
13.908	-0.000	375864	14.135	0.002	244560	41.8	38.8	7.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	422211	-5.7
Hexabromobiphenyl	798898	980480	22.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	251404	0.9
Hexabromobiphenyl	362541	443839	22.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1254	1	9.319	-0.002	104165	280.2	1	9.466	0.002	42584	262.7
Aroclor-1254	2	9.399	-0.003	42226	292.1	2	9.983	0.002	26726	205.1
Aroclor-1254	3	9.693	-0.001	44774	190.7	3	10.137	0.003	68195	243.5
Aroclor-1254	4	9.827	-0.004	135028	295.0	4	10.385	0.003	79400	273.7
Aroclor-1254	5	10.186	-0.003	96132	306.4	5	10.581	0.002	39280	280.7
		Total Col1Ave (5 peaks):			272.9		Total Col2Ave (5 peaks):			253.1 RPD = 8
		Corrected Ave (4 peaks):			264.5		Corrected Ave (4 peaks):			246.2 RPD = 7
			CalAmt %D:		9.2			CalAmt %D:		1.3

Total PCB Area Col1 (5.936 - 13.808) = 1420446 Col1 Total PCB = 0.3 ppm*

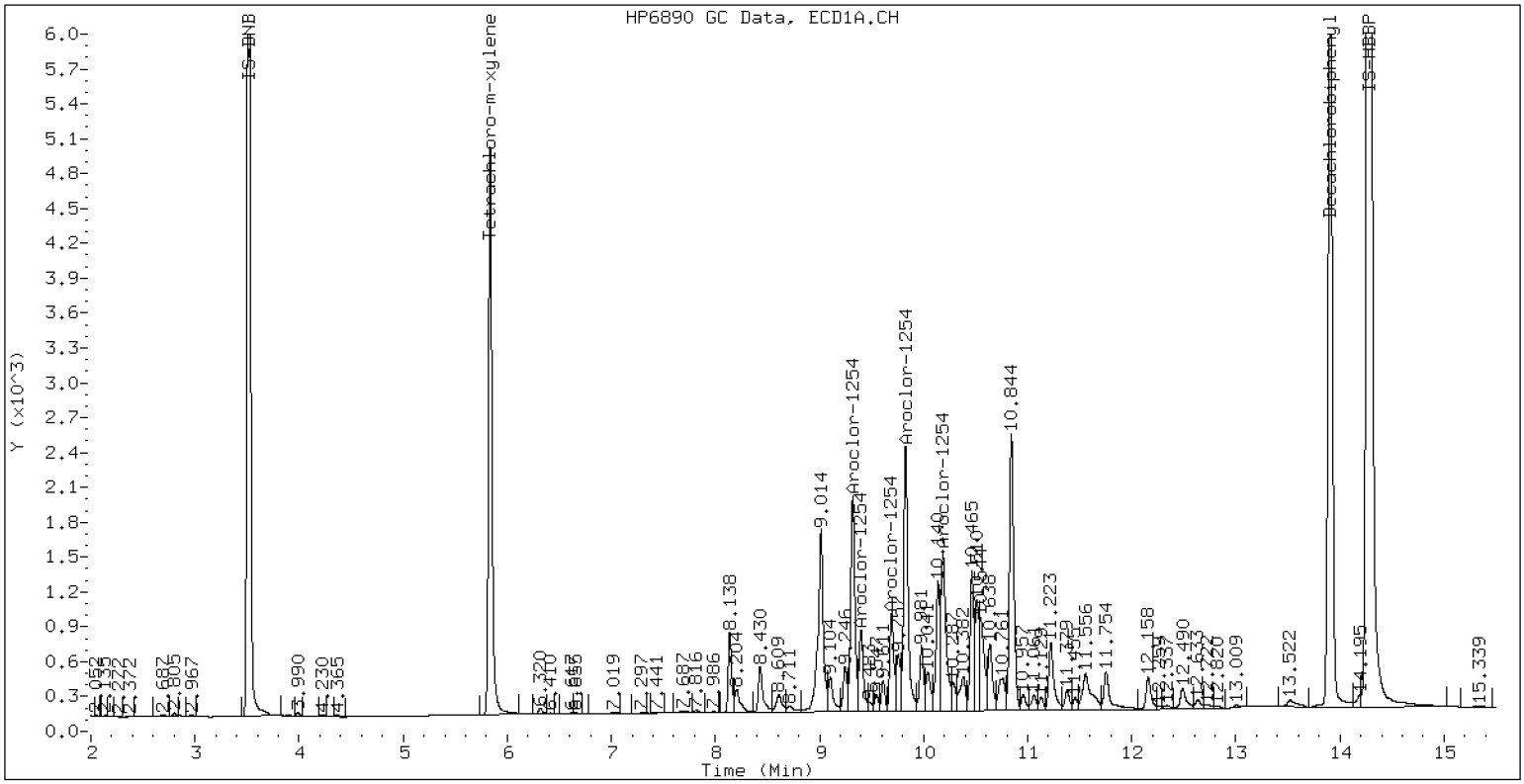
Total PCB Area Col2 (5.936 - 13.808) = 727604 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

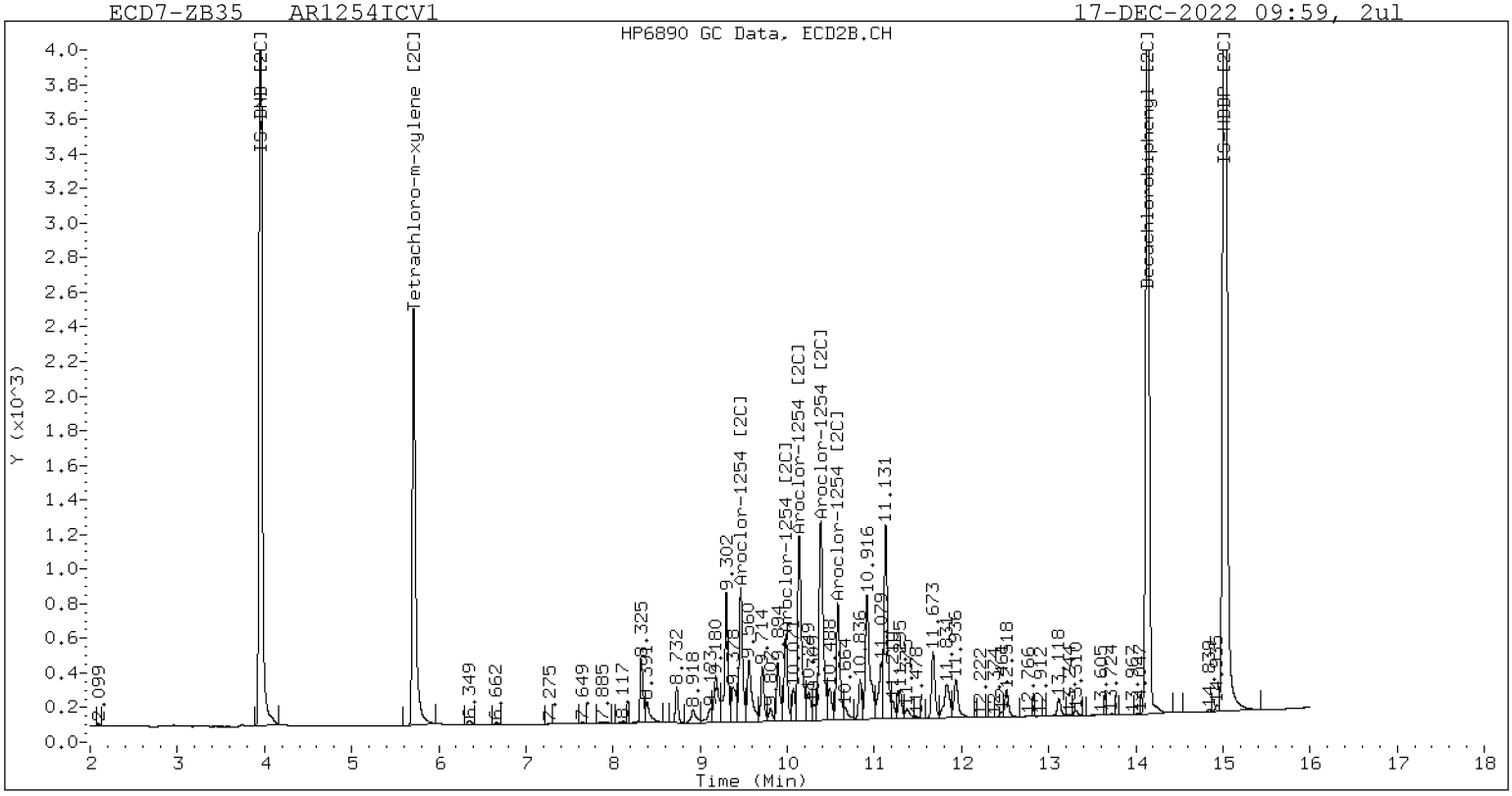
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254ICV1 17-DEC-2022 09:59, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254ICV1 17-DEC-2022 09:59, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12172204ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0280	Injection Date:	12/17/22
Lab Sample ID:	SKL0280-ICV2	Injection Time:	10:20
Sequence Name:	AR1660ICV2		

		CONC. (ug/L)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Aroclor 1016	A	250.00	285	0.0441939	0.0495552		13.9	+/-20
Aroclor-1016 (1)	A	250.00	276	0.0266860	0.0294632		10.4	
Aroclor-1016 (2)	A	250.00	270	0.0861572	0.0930307		8.0	
Aroclor-1016 (3)	A	250.00	294	0.0390425	0.0459871		17.6	
Aroclor-1016 (4)	A	250.00	299	0.0248899	0.0297395		19.6	
Aroclor 1016 [2C]	A	250.00	245	0.0467310	0.0450736		-2.1	+/-20
Aroclor-1016 (1) [2C]	A	250.00	247	0.0409030	0.0404894		-1.2	
Aroclor-1016 (2) [2C]	A	250.00	235	0.0882154	0.0827982		-6.0	
Aroclor-1016 (3) [2C]	A	250.00	241	0.0378846	0.0365832		-3.6	
Aroclor-1016 (4) [2C]	A	250.00	256	0.0199212	0.0204237		2.4	
Aroclor 1260	A	250.00	252	0.0390342	0.0392048		1.0	+/-20
Aroclor-1260 (1)	A	250.00	247	0.0291201	0.0287555		-1.2	
Aroclor-1260 (2)	A	250.00	255	0.0301181	0.0306758		2.0	
Aroclor-1260 (3)	A	250.00	254	0.0791351	0.0804670		1.6	
Aroclor-1260 (4)	A	250.00	238	0.0403003	0.0384280		-4.8	
Aroclor-1260 (5)	A	250.00	268	0.0164974	0.0176979		7.2	
Aroclor 1260 [2C]	A	250.00	207	0.0617619	0.0510026		-17.1	+/-20
Aroclor-1260 (1) [2C]	A	250.00	201	0.0422283	0.0339109		-19.6	
Aroclor-1260 (2) [2C]	A	250.00	202	0.1059643	0.0858582		-19.2	
Aroclor-1260 (3) [2C]	A	250.00	213	0.0282173	0.0240257		-14.8	
Aroclor-1260 (4) [2C]	A	250.00	213	0.0706376	0.0602156		-14.8	
Decachlorobiphenyl	A	40.000	42.7	0.7333327	0.7832462		6.8	+/-20
Tetrachlorometaxylene	A	40.000	40.7	1.1336710	1.1529790		1.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.2	1.1358180	1.0833480		-4.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	38.9	1.0966080	1.0661210		-2.8	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172204ECD7.D
Data file 2: /221217.b/221217.b/12172204ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660ICV2
Client ID:
Injection Date: 17-DEC-2022 10:20
Report Date: 12/20/2022 15:07
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.001	204987	5.714	0.004	114849	40.7	38.9	4.5	Tetrachloro-m-xylene
13.907	-0.000	340839	14.135	0.001	216012	42.7	38.2	11.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	355578	-20.6
Hexabromobiphenyl	798898	870324	8.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	215452	-13.5
Hexabromobiphenyl	362541	398786	10.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.294	-0.000	32739	276.0	1	7.277	0.003	27261	247.5
Aroclor-1016	2	7.681	-0.003	103374	269.9	2	7.876	0.003	55747	234.6
Aroclor-1016	3	7.816	-0.001	51100	294.5	3	8.076	0.003	24631	241.4
Aroclor-1016	4	8.428	-0.001	33046	298.7	4	8.246	0.003	13751	256.3
Total Col1Ave (4 peaks):					284.8	Total Col2Ave (4 peaks):				245.0 RPD = 15
Corrected Ave (3 peaks):					280.1	Corrected Ave (3 peaks):				241.2 RPD = 15
CalAmt %D:					13.9	CalAmt %D:				-2.0
Aroclor-1260	1	11.062	-0.001	78208	246.9	1	11.669	0.002	42260	200.8
Aroclor-1260	2	11.377	-0.000	83431	254.6	2	11.932	0.002	106997	202.6
Aroclor-1260	3	11.752	-0.000	218851	254.2	3	12.451	0.002	29941	212.9
Aroclor-1260	4	12.158	-0.001	104515	238.4	4	12.516	0.003	75041	213.1
Aroclor-1260	5	12.261	-0.001	48134	268.2	NS	---			----
Total Col1Ave (5 peaks):					252.5	Total Col2Ave (4 peaks):				207.3 RPD = 20
Corrected Ave (4 peaks):					248.5	Corrected Ave (3 peaks):				205.4 RPD = 19
CalAmt %D:					1.0	CalAmt %D:				-17.1

Total PCB Area Col1 (5.936 - 13.808) = 2330657 Col1 Total PCB = 0.6 ppm*

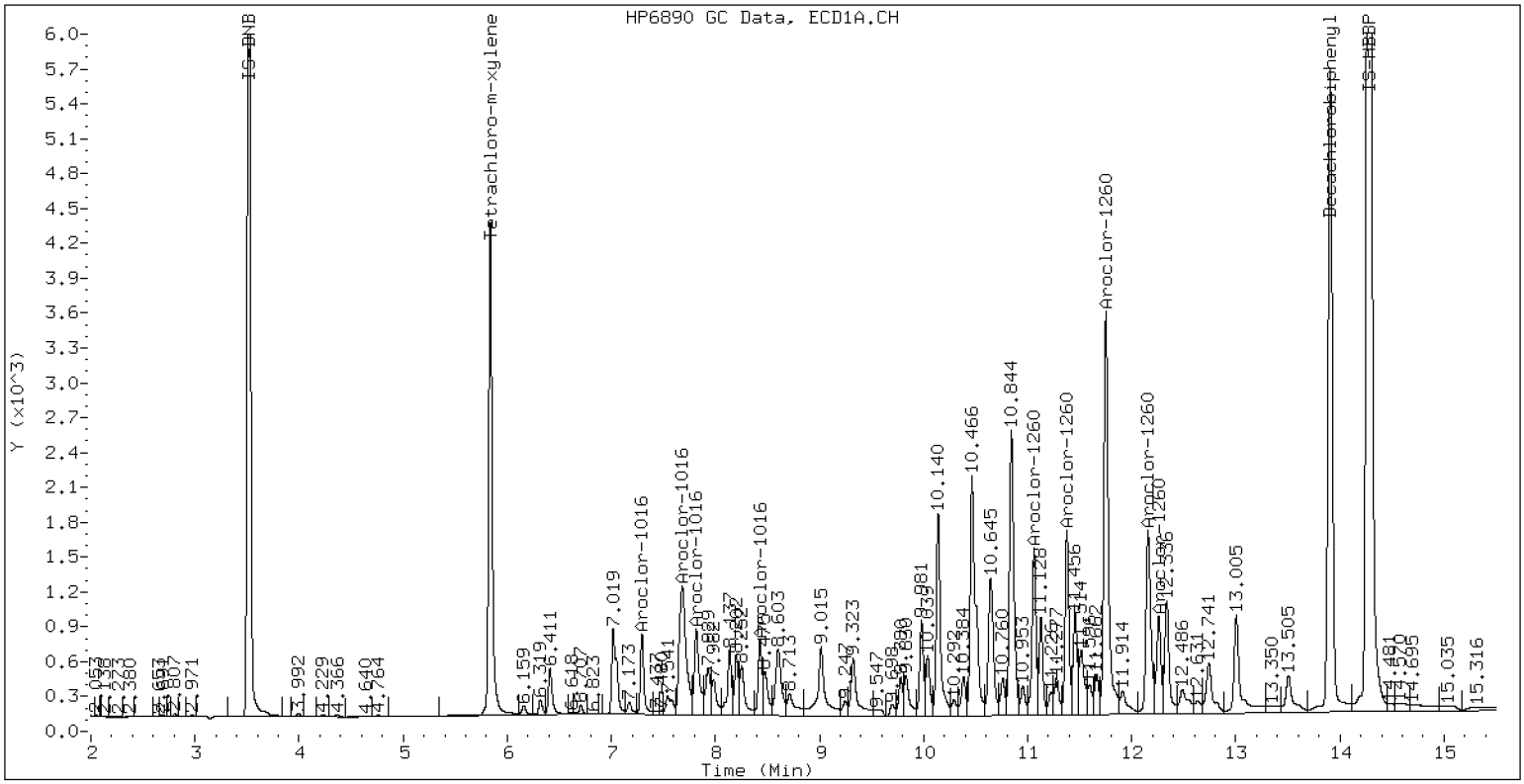
Total PCB Area Col2 (5.936 - 13.808) = 1047864 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

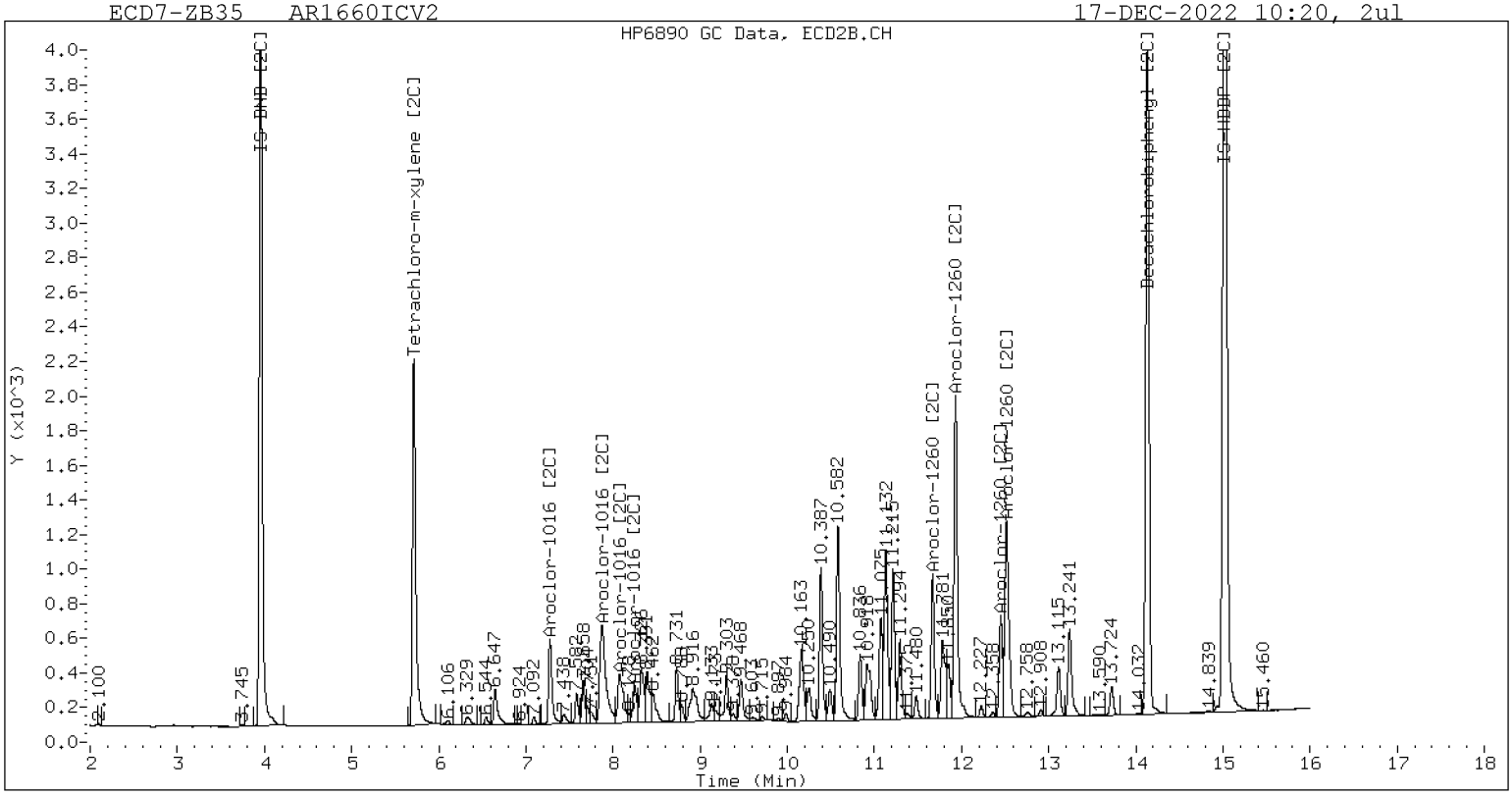
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660ICV2 17-DEC-2022 10:20, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660ICV2 17-DEC-2022 10:20, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12262202ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0359	Injection Date:	12/26/22
Lab Sample ID:	SKL0359-ICV1	Injection Time:	16:04
Sequence Name:	AR1254ICV1		

		CONC. (ug/L)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Aroclor 1254	A	250.00	267	0.0576965	0.0616279		6.8	+/-20
Aroclor-1254 (1)	A	250.00	265	0.0704377	0.0746023			
Aroclor-1254 (2)	A	250.00	294	0.0273935	0.0321933			
Aroclor-1254 (3)	A	250.00	287	0.0444885	0.0510066			
Aroclor-1254 (4)	A	250.00	312	0.0867185	0.1083171			
Aroclor-1254 (5)	A	250.00	177	0.0594444	0.0420200			
Aroclor 1254 [2C]	A	250.00	242	0.0638047	0.0644032		-3.0	+/-20
Aroclor-1254 (1) [2C]	A	250.00	267	0.0515798	0.0550137			
Aroclor-1254 (2) [2C]	A	250.00	147	0.0414689	0.0244496			
Aroclor-1254 (3) [2C]	A	250.00	251	0.0891370	0.0895019			
Aroclor-1254 (4) [2C]	A	250.00	291	0.0923140	0.1074071			
Aroclor-1254 (5) [2C]	A	250.00	256	0.0445236	0.0456437			
Decachlorobiphenyl	A	40.000	47.5	0.7333327	0.8701786		18.8	+/-20
Tetrachlorometaxylene	A	40.000	41.4	1.1336710	1.1724350		3.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	46.9	1.1358180	1.3312320		17.3	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.4	1.0966080	1.1069480		1.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221226.b/12262202ECD7.D
Data file 2: /221226.b/221226.b/12262202ECD7.D
Method: \\target\share\chem4\ecd7.i\221226.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254ICV1
Client ID:
Injection Date: 26-DEC-2022 16:04
Report Date: 12/29/2022 12:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.001	254103	5.709	0.001	154448	41.4	40.4	2.4	Tetrachloro-m-xylene
13.903	0.002	326947	14.128	0.001	231060	47.5	46.9	1.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	433462	-3.2
Hexabromobiphenyl	798898	751448	-5.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	279052	12.0
Hexabromobiphenyl	362541	347137	-4.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.309	-0.002	101054	264.8	1	9.457	-0.001	47974	266.6
Aroclor-1254	2	9.386	-0.004	43608	293.8	2	9.976	0.000	21321	147.4
Aroclor-1254	3	9.676	-0.005	69092	286.6	3	10.126	-0.000	78049	251.0
Aroclor-1254	4	9.811	-0.004	146723	312.3	4	10.372	-0.002	93663	290.9
Aroclor-1254	5	10.141	0.010	56919	176.7	5	10.572	0.000	39803	256.3
Total Col1Ave (5 peaks):					266.8	Total Col2Ave (5 peaks):				242.4 RPD = 10
Corrected Ave (4 peaks):					255.5	Corrected Ave (4 peaks):				230.3 RPD = 10
CalAmt %D:					6.7	CalAmt %D:				-3.0

Total PCB Area Col1 (5.931 - 13.801) = 1569265 Col1 Total PCB = 0.4 ppm*

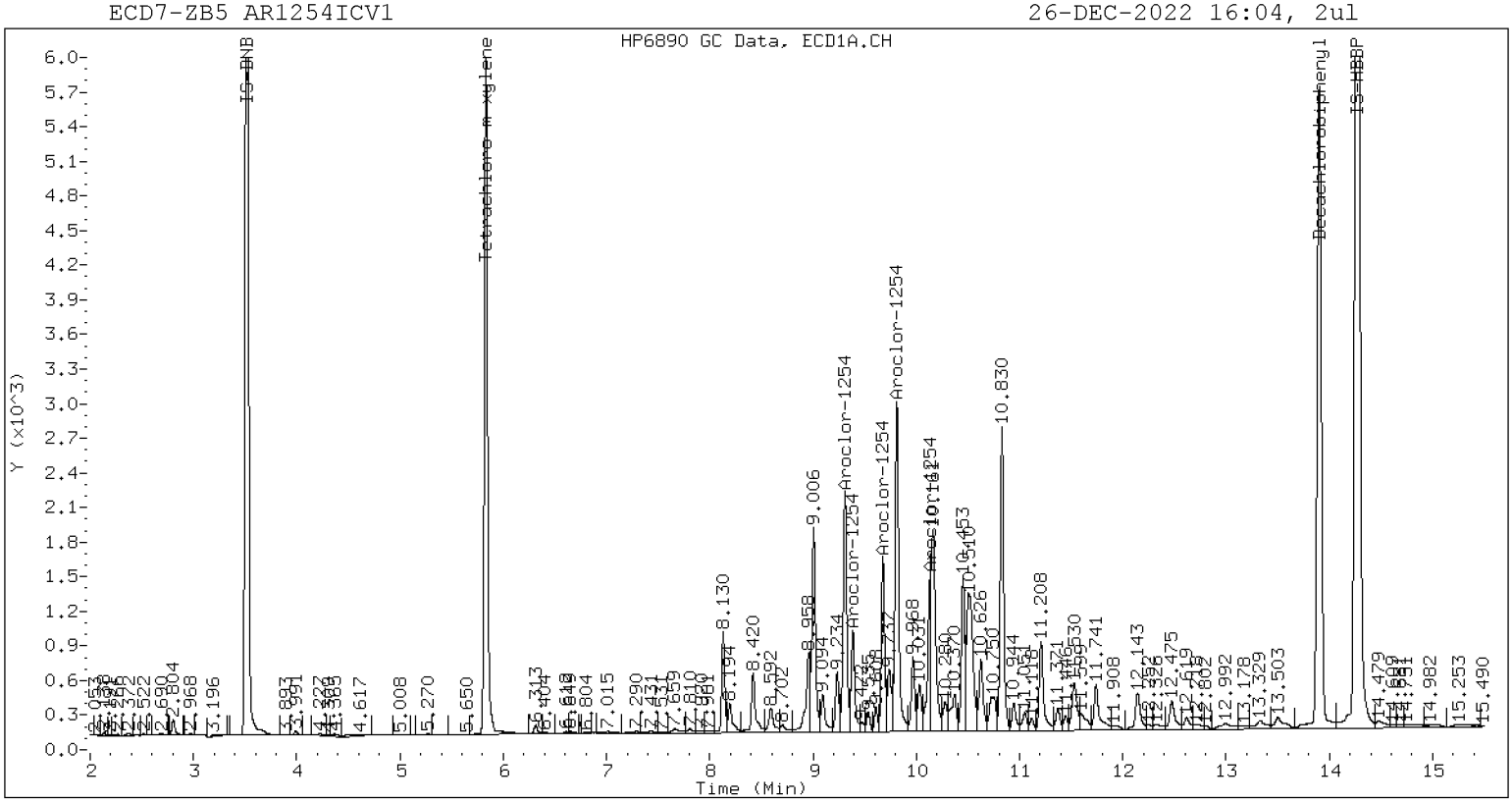
Total PCB Area Col2 (5.807 - 14.027) = 784677 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

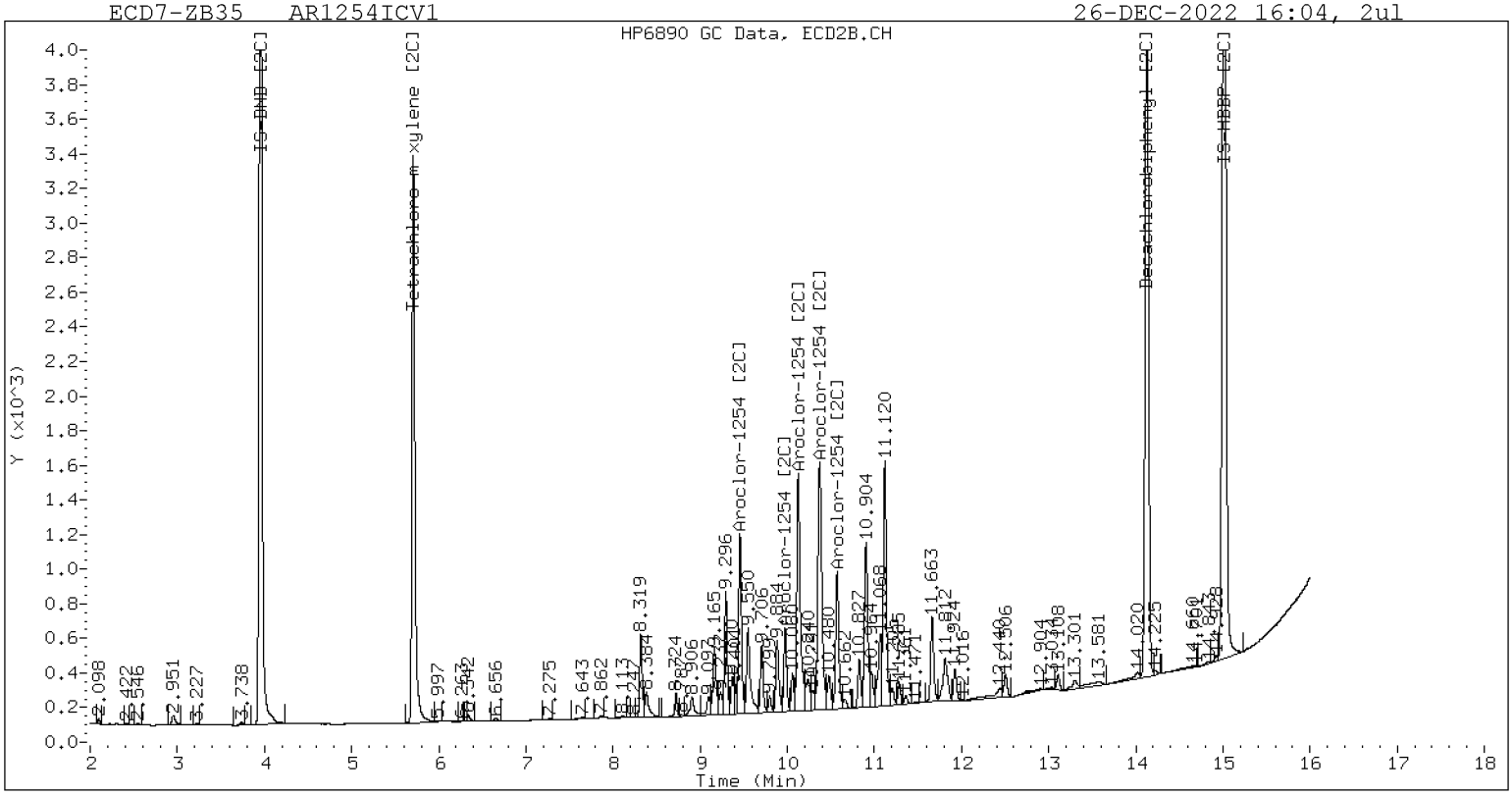
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254ICV1 26-DEC-2022 16:04, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1254ICV1 26-DEC-2022 16:04, 2ul

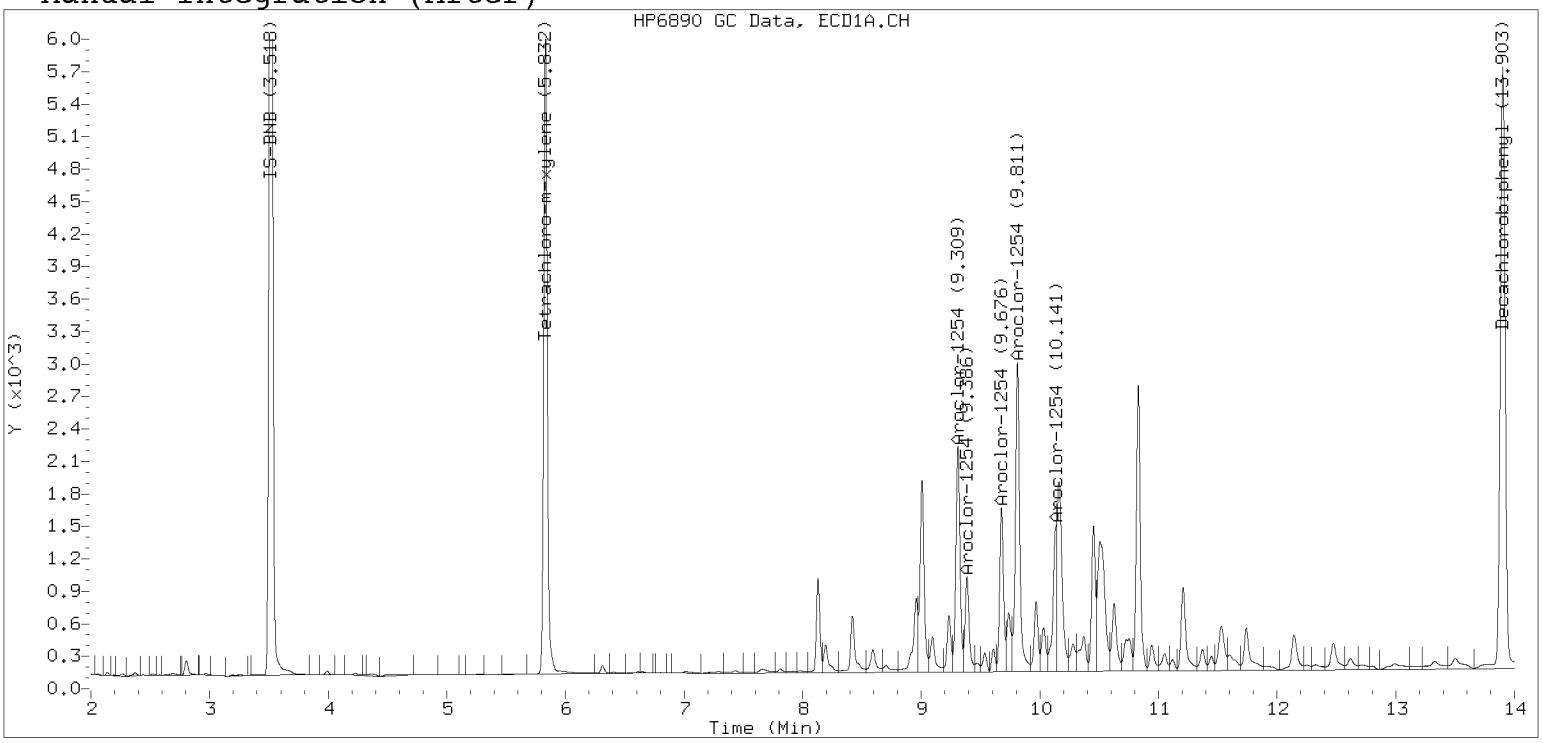


ZB-35 Manual Integration: NO

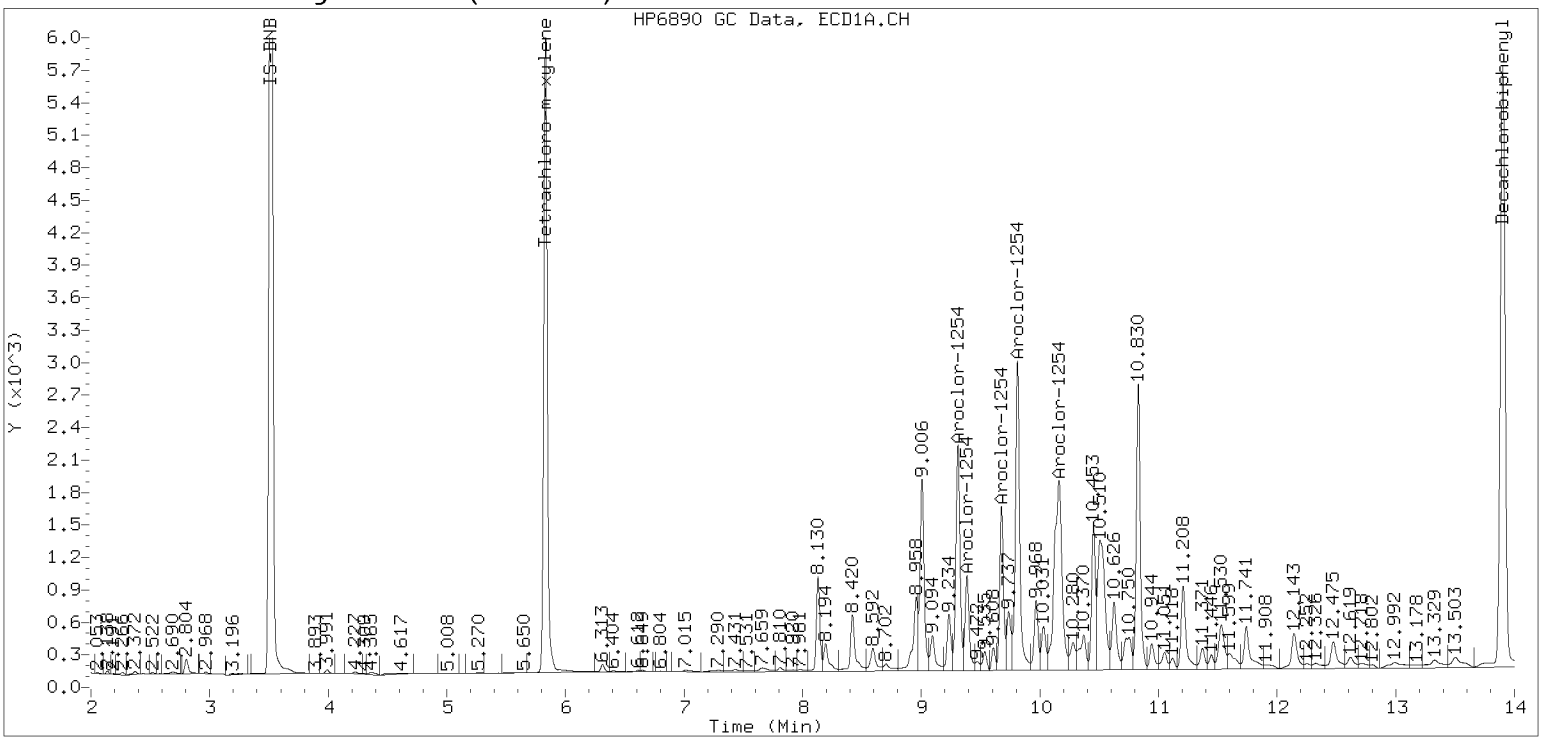
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221226.b/12262202ECD7.D Injection Date: 26-DEC-2022 16:04

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12262203ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0359	Injection Date:	12/26/22
Lab Sample ID:	SKL0359-ICV2	Injection Time:	16:26
Sequence Name:	AR1660ICV2		

		CONC. (ug/L)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Aroclor 1016	A	250.00	282	0.0441939	0.0495947		12.9	+/-20	
Aroclor-1016 (1)	A	250.00	284	0.0266860	0.0303377		13.6		
Aroclor-1016 (2)	A	250.00	283	0.0861572	0.0976817		13.2		
Aroclor-1016 (3)	A	250.00	254	0.0390425	0.0397156		1.6		
Aroclor-1016 (4)	A	250.00	308	0.0248899	0.0306439		23.2		
Aroclor 1016 [2C]	A	250.00	268	0.0467310	0.0477240		7.3	+/-20	
Aroclor-1016 (1) [2C]	A	250.00	277	0.0409030	0.0453041		10.8		
Aroclor-1016 (2) [2C]	A	250.00	231	0.0882154	0.0814262		-7.6		
Aroclor-1016 (3) [2C]	A	250.00	265	0.0378846	0.0402200		6.0		
Aroclor-1016 (4) [2C]	A	250.00	300	0.0199212	0.0239460		20.0		
Aroclor 1260	A	250.00	303	0.0390342	0.0474406		21.4	+/-20	*
Aroclor-1260 (1)	A	250.00	290	0.0291201	0.0337826		16.0		
Aroclor-1260 (2)	A	250.00	294	0.0301181	0.0354604		17.6		
Aroclor-1260 (3)	A	250.00	306	0.0791351	0.0969129		22.4		
Aroclor-1260 (4)	A	250.00	312	0.0403003	0.0502800		24.8		
Aroclor-1260 (5)	A	250.00	315	0.0164974	0.0207672		26.0		
Aroclor 1260 [2C]	A	250.00	245	0.0617619	0.0538891		-2.1	+/-20	
Aroclor-1260 (1) [2C]	A	250.00	304	0.0422283	0.0513681		21.6		
Aroclor-1260 (2) [2C]	A	250.00	177	0.1059643	0.0749994		-29.2		
Aroclor-1260 (3) [2C]	A	250.00	304	0.0282173	0.0342625		21.6		
Aroclor-1260 (4) [2C]	A	250.00	194	0.0706376	0.0549264		-22.4		
Decachlorobiphenyl	A	40.000	46.6	0.7333327	0.8545969		16.5	+/-20	
Tetrachlorometaxylene	A	40.000	45.9	1.1336710	1.3013980		14.8	+/-20	
Decachlorobiphenyl [2C]	A	40.000	47.1	1.1358180	1.3375600		17.8	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	44.5	1.0966080	1.2209830		11.3	+/-20	

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221226.b/12262203ECD7.D
Data file 2: /221226.b/221226.b/12262203ECD7.D
Method: \\target\share\chem4\ecd7.i\221226.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660ICV2
Client ID:
Injection Date: 26-DEC-2022 16:26
Report Date: 12/29/2022 12:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	0.000	244795	5.708	0.001	149549	45.9	44.5	3.1	Tetrachloro-m-xylene
13.902	0.001	325266	14.128	0.001	234257	46.6	47.1	1.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	376203	-16.0
Hexabromobiphenyl	798898	761215	-4.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	244965	-1.7
Hexabromobiphenyl	362541	350275	-3.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	7.288	0.001	35666	284.2	1	7.272	0.002	34681	276.9
Aroclor-1016	2	7.668	-0.007	114838	283.4	2	7.866	-0.002	62333	230.8
Aroclor-1016	3	7.806	-0.002	46691	254.3	3	8.066	-0.001	30789	265.4
Aroclor-1016	4	8.418	-0.002	36026	307.8	4	8.236	-0.003	18331	300.5
Total Col1Ave (4 peaks):					282.4	Total Col2Ave (4 peaks):				268.4 RPD = 5
Corrected Ave (3 peaks):					274.0	Corrected Ave (3 peaks):				257.7 RPD = 6
CalAmt %D:					13.0	CalAmt %D:				7.4
Aroclor-1260	1	11.053	-0.002	80362	290.0	1	11.661	-0.000	56228	304.1
Aroclor-1260	2	11.369	-0.002	84353	294.3	2	11.922	-0.001	82095	176.9
Aroclor-1260	3	11.741	-0.003	230536	306.2	3	12.441	-0.001	37504	303.6
Aroclor-1260	4	12.142	-0.006	119606	311.9	4	12.507	-0.000	60123	194.4
Aroclor-1260	5	12.253	-0.001	49401	314.7	NS	---			----
Total Col1Ave (5 peaks):					303.4	Total Col2Ave (4 peaks):				244.8 RPD = 21
Corrected Ave (4 peaks):					300.6	Corrected Ave (3 peaks):				225.0 RPD = 29
CalAmt %D:					21.4	CalAmt %D:				-2.1

Total PCB Area Col1 (5.931 - 13.801) = 2197238 Col1 Total PCB = 0.6 ppm*

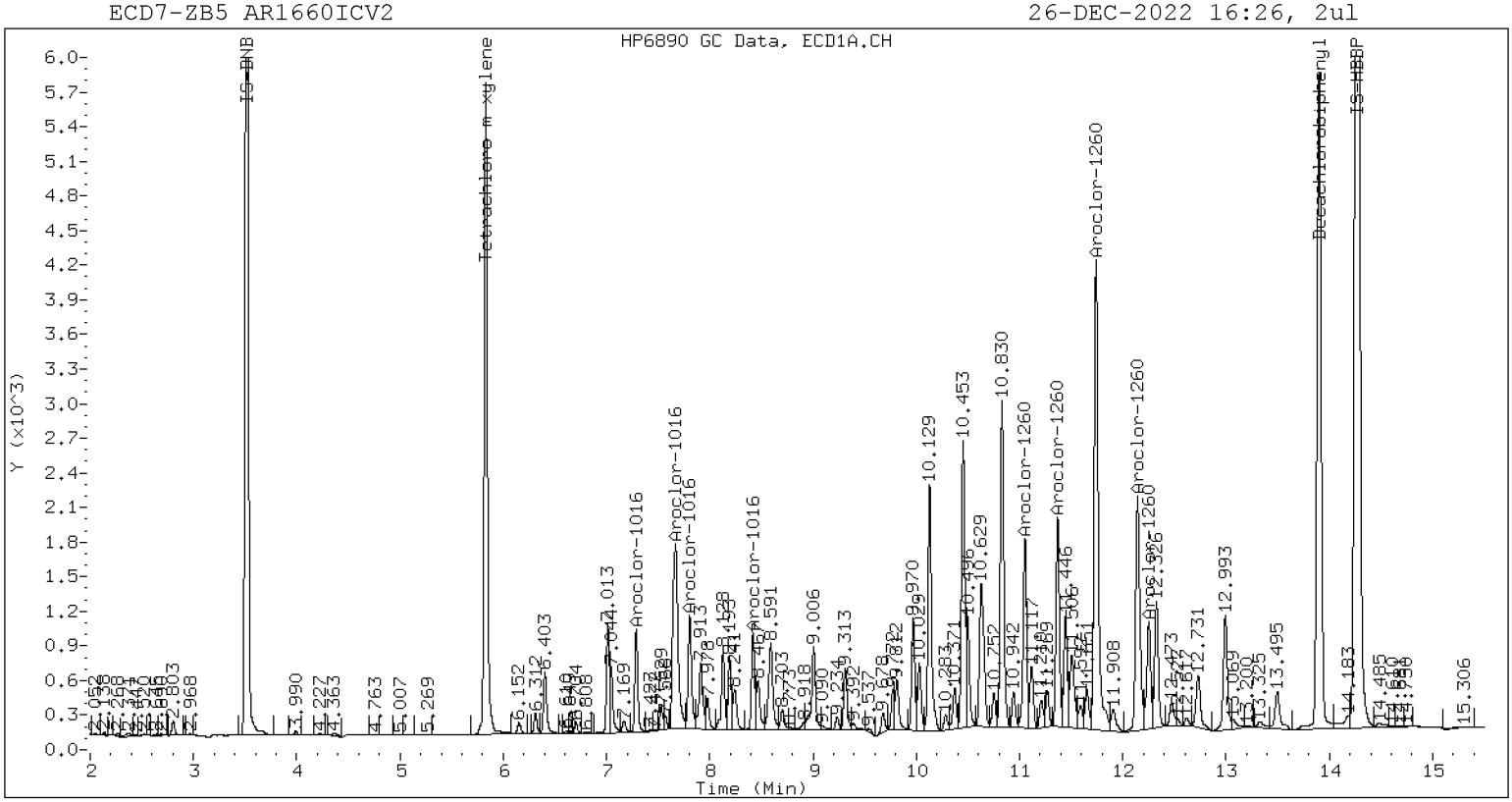
Total PCB Area Col2 (5.807 - 14.027) = 1198321 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

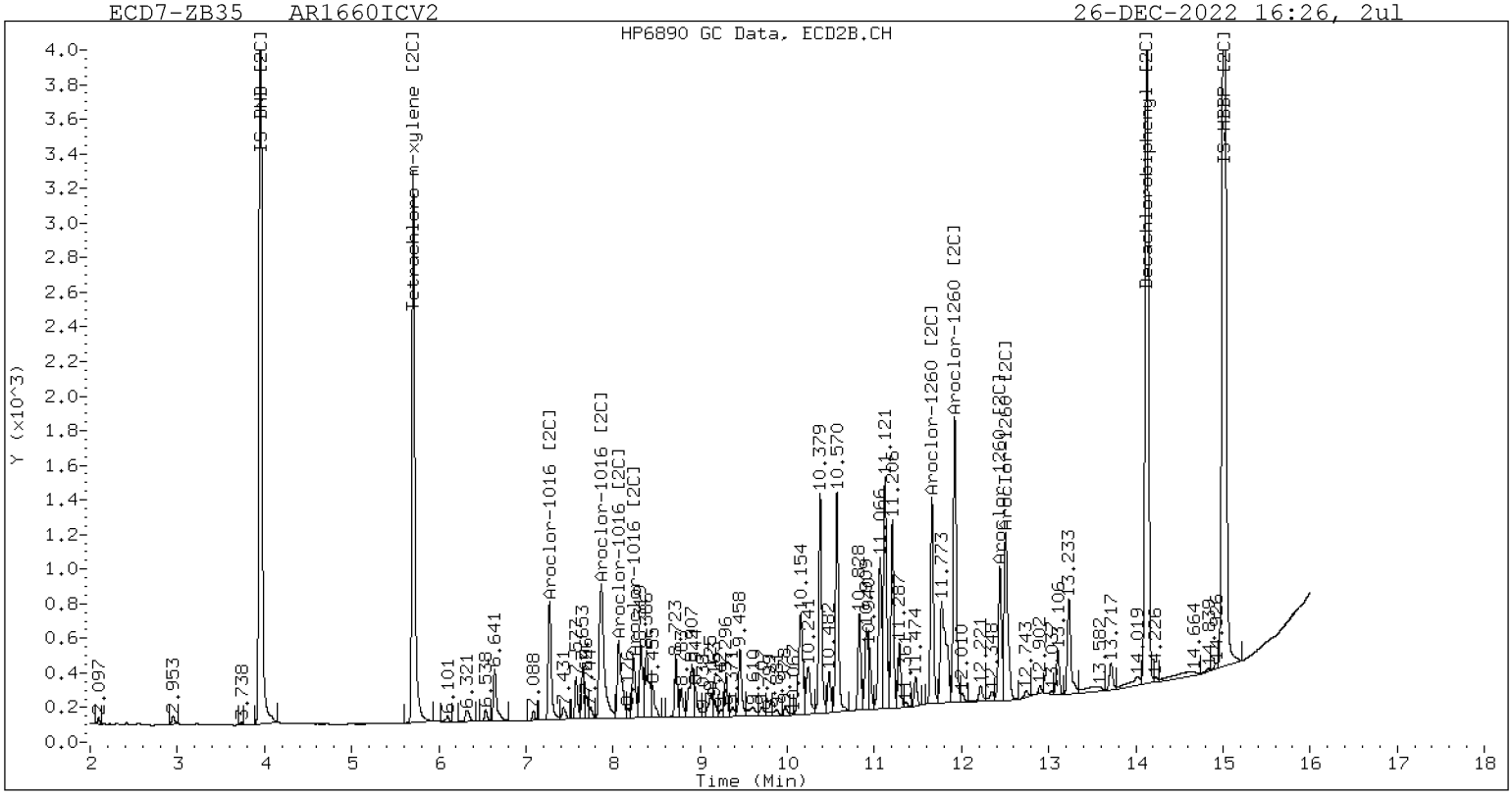
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660ICV2 26-DEC-2022 16:26, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1660ICV2 26-DEC-2022 16:26, 2ul

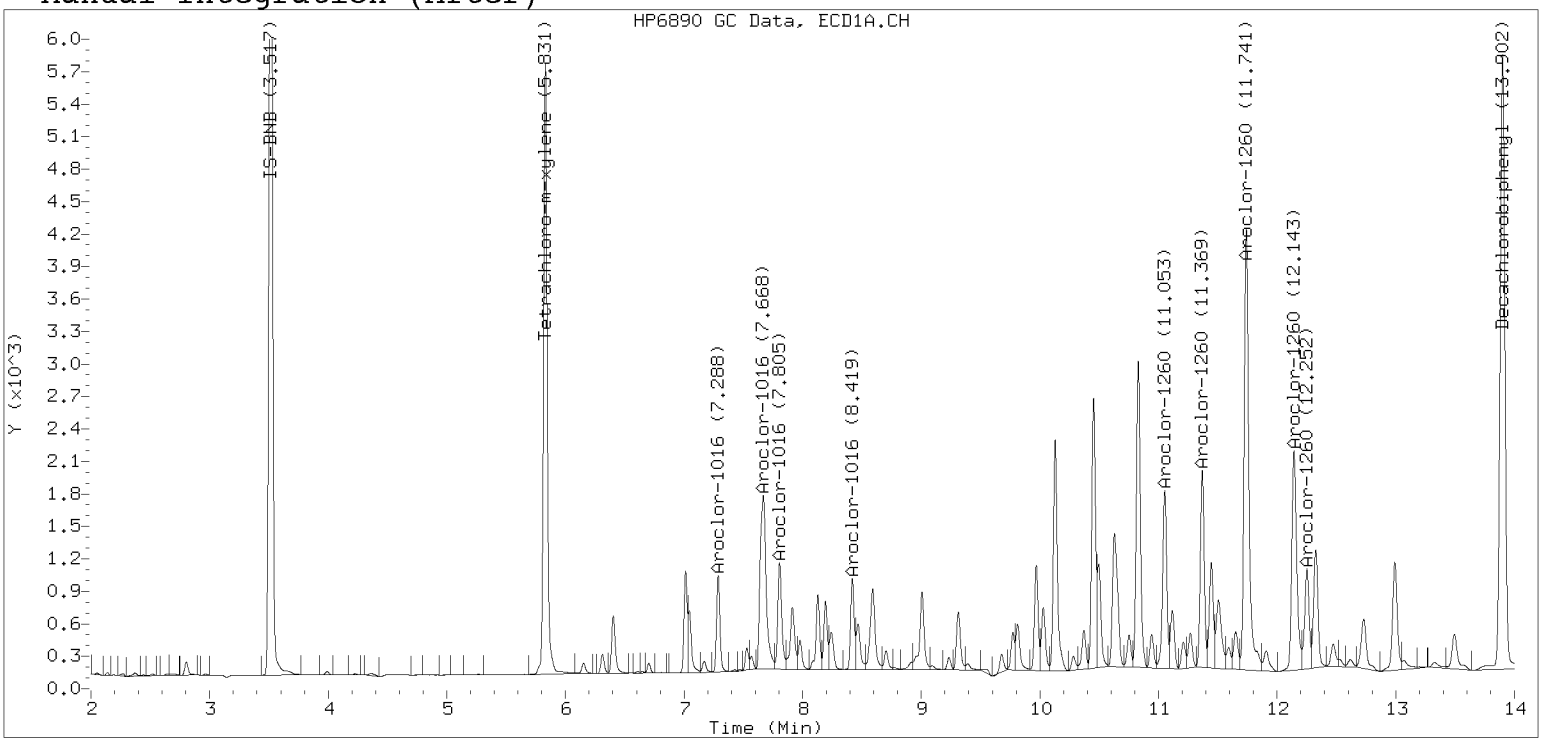


ZB-35 Manual Integration: NO

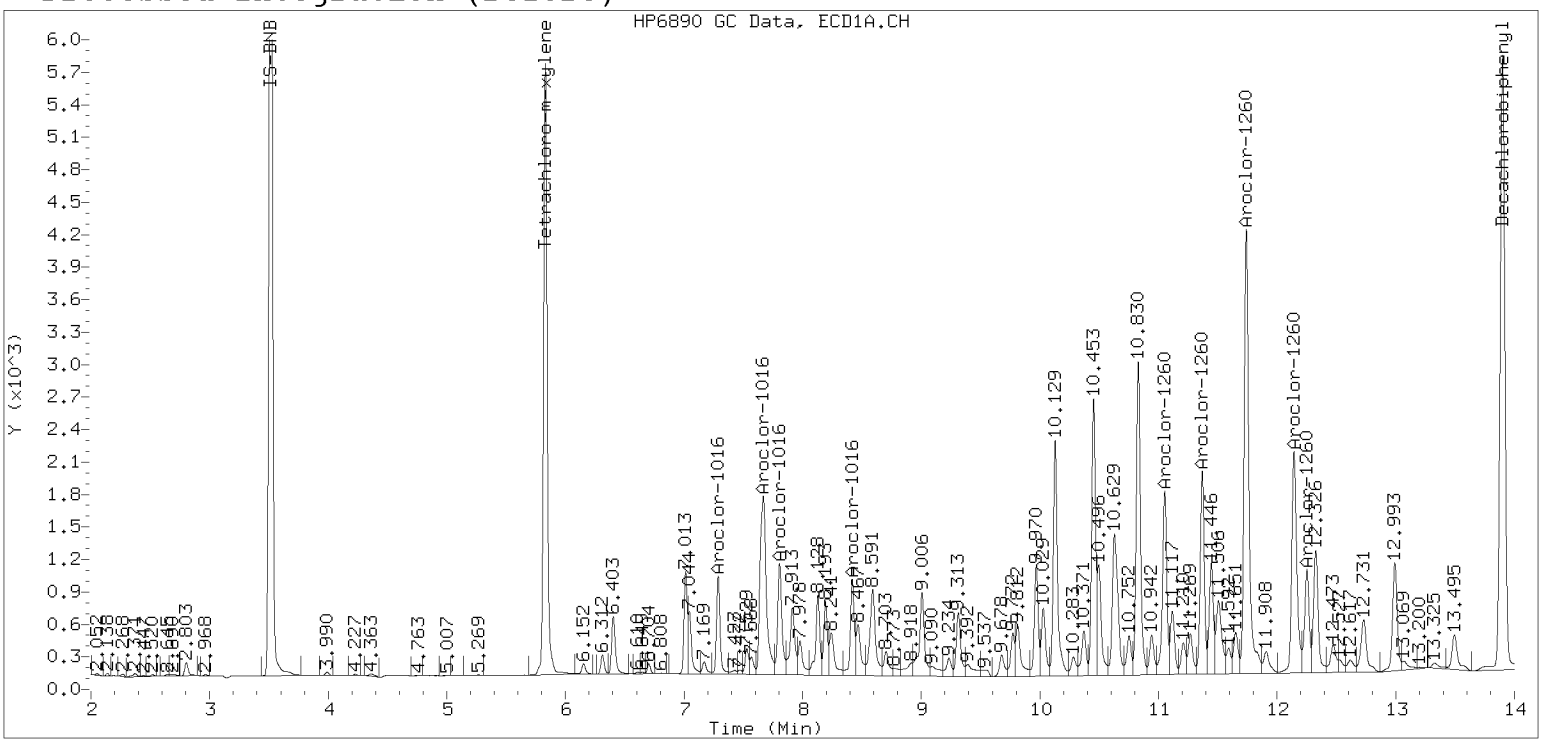
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221226.b/12262203ECD7.D Injection Date: 26-DEC-2022 16:26

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12032222ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0048	Injection Date:	12/03/22
Lab Sample ID:	SKL0048-SCV1	Injection Time:	22:13
Sequence Name:	AR1660SCV1		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	223	0.0441939	0.0392295		-10.7	+/-20
Aroclor 1016 [2C]	A	250.00	216	0.0467310	0.0403426		-13.5	+/-20
Aroclor 1260	A	250.00	285	0.0390342	0.0441447		14.1	+/-20
Aroclor 1260 [2C]	A	250.00	263	0.0617619	0.0651122		5.1	+/-20
Decachlorobiphenyl	A	40.000	39.8	0.7333327	0.7297174		-0.5	+/-20
Tetrachlorometaxylene	A	40.000	36.1	1.1336710	1.0237520		-9.7	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.2	1.1358180	1.0840850		-4.6	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.1	1.0966080	0.9886519		-9.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032222ECD7.D
Data file 2: /221203.b/221203.b/12032222ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660SCV1
Client ID:
Injection Date: 03-DEC-2022 22:13
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	247495	5.714	0.000	133904	36.1	36.1	0.2	Tetrachloro-m-xylene
13.909	0.001	325466	14.137	0.000	234467	39.8	38.2	4.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	483506	8.0
Hexabromobiphenyl	798898	892033	11.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270882	8.7
Hexabromobiphenyl	362541	432562	19.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.293	0.001	36100	223.8	1	7.277	0.002	30155	217.7
Aroclor-1016	2	7.681	0.007	113995	218.9	2	7.875	0.004	64468	215.8
Aroclor-1016	3	7.815	0.004	53043	224.8	3	8.074	0.004	27130	211.5
Aroclor-1016	4	8.428	0.004	33958	225.7	4	8.245	0.004	14848	220.1
Total Col1Ave (4 peaks):					223.3	Total Col2Ave (4 peaks):				216.3 RPD = 3
Corrected Ave (3 peaks):					222.5	Corrected Ave (3 peaks):				215.0 RPD = 3
Aroclor-1260	1	11.063	0.001	93173	286.9	1	11.671	0.002	56796	248.7
Aroclor-1260	2	11.380	0.003	95530	284.5	2	11.935	0.002	153247	267.5
Aroclor-1260	3	11.754	0.004	250548	283.9	3	12.452	0.001	41316	270.8
Aroclor-1260	4	12.159	0.005	120399	267.9	4	12.519	0.003	100704	263.7
Aroclor-1260	5	12.263	0.003	55639	302.5	NS	---			----
Total Col1Ave (5 peaks):					285.1	Total Col2Ave (4 peaks):				262.7 RPD = 8
Corrected Ave (4 peaks):					280.8	Corrected Ave (3 peaks):				260.0 RPD = 8

Total PCB Area Col1 (5.936 - 13.808) = 2318083 Col1 Total PCB = 0.4 ppm*

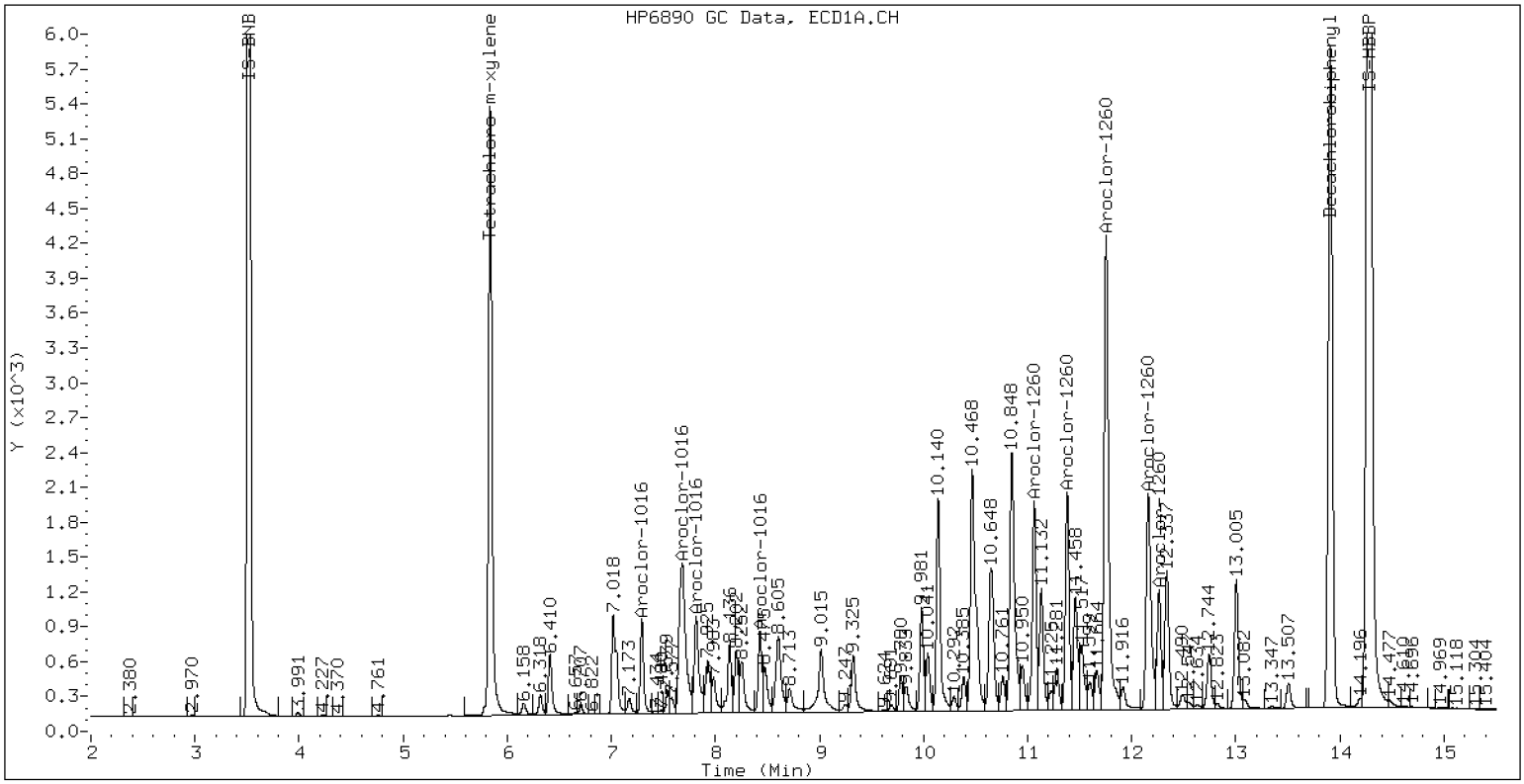
Total PCB Area Col2 (5.936 - 13.808) = 1275603 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

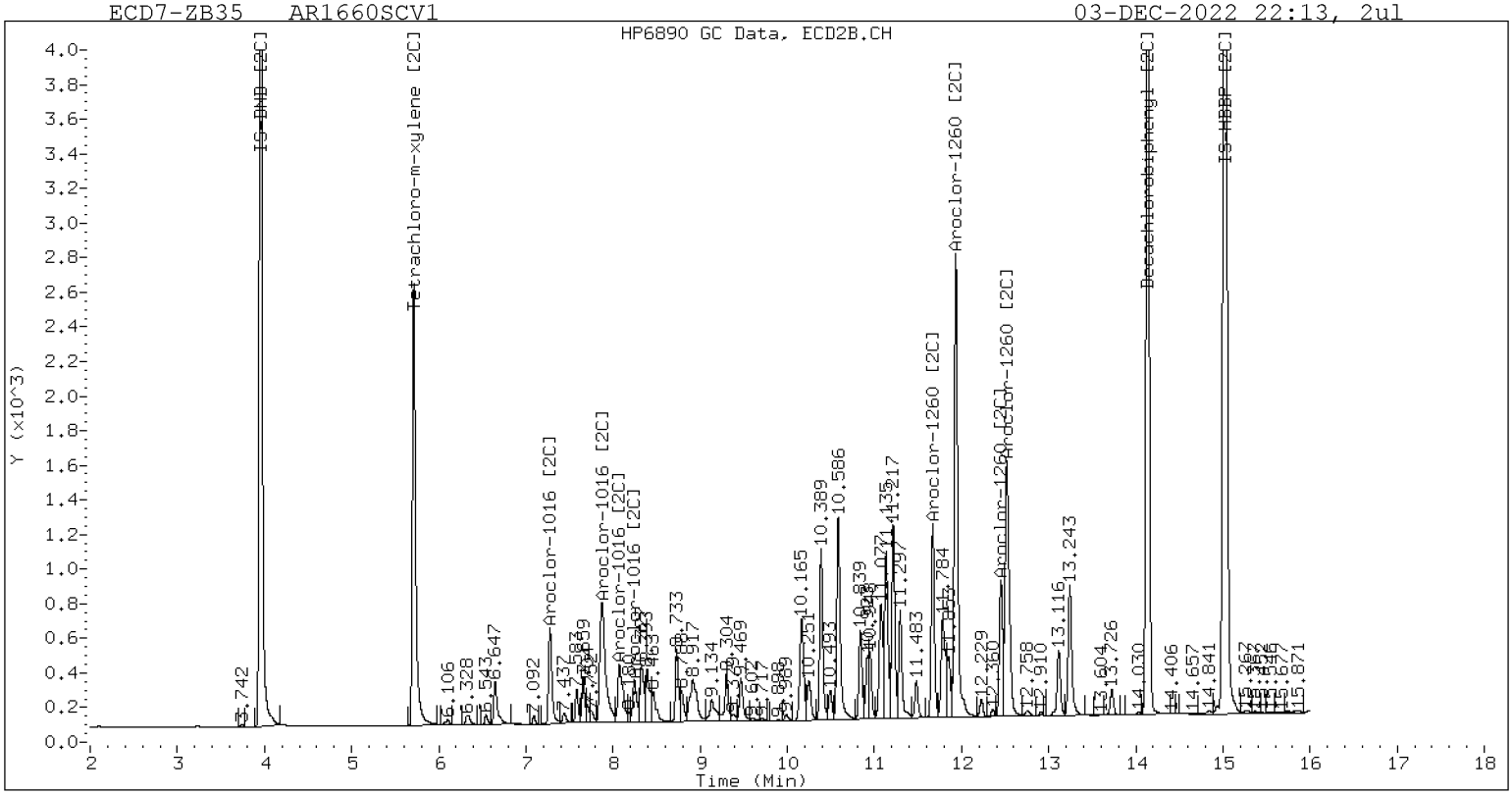
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660SCV1 03-DEC-2022 22:13, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660SCV1 03-DEC-2022 22:13, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12032223ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0048	Injection Date:	12/03/22
Lab Sample ID:	SKL0048-SCV2	Injection Time:	22:34
Sequence Name:	AR1242SCV2		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	207	0.0396000	0.0328545		-17.3	+/-20
Aroclor 1242 [2C]	A	250.00	225	0.0391981	0.0342776		-10.0	+/-20
Decachlorobiphenyl	A	40.000	39.1	0.7333327	0.7176455		-2.1	+/-20
Tetrachlorometaxylene	A	40.000	35.6	1.1336710	1.0081550		-11.1	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.0	1.1358180	1.0793200		-5.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	35.8	1.0966080	0.9816931		-10.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032223ECD7.D
Data file 2: /221203.b/221203.b/12032223ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242SCV2
Client ID:
Injection Date: 03-DEC-2022 22:34
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.000	242356	5.713	-0.001	132586	35.6	35.8	0.7	Tetrachloro-m-xylene
13.909	0.001	321690	14.136	-0.001	228130	39.1	38.0	2.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	480791	7.4
Hexabromobiphenyl	798898	896515	12.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270117	8.4
Hexabromobiphenyl	362541	422729	16.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.294	0.000	26316	193.1	1	7.277	-0.001	23973	209.7
Aroclor-1242	2	7.677	-0.003	89703	207.3	2	7.873	-0.002	50204	206.9
Aroclor-1242	3	8.427	0.000	26786	215.2	3	9.176	-0.002	19686	251.4
Aroclor-1242	4	9.025	-0.005	54647	211.4	4	9.599	-0.006	21874	232.4
Total Col1Ave (4 peaks):					206.7	Total Col2Ave (4 peaks):				225.1 RPD = 9
Corrected Ave (3 peaks):					203.9	Corrected Ave (3 peaks):				216.3 RPD = 6

Total PCB Area Col1 (5.936 - 13.808) = 731052 Col1 Total PCB = 0.1 ppm*

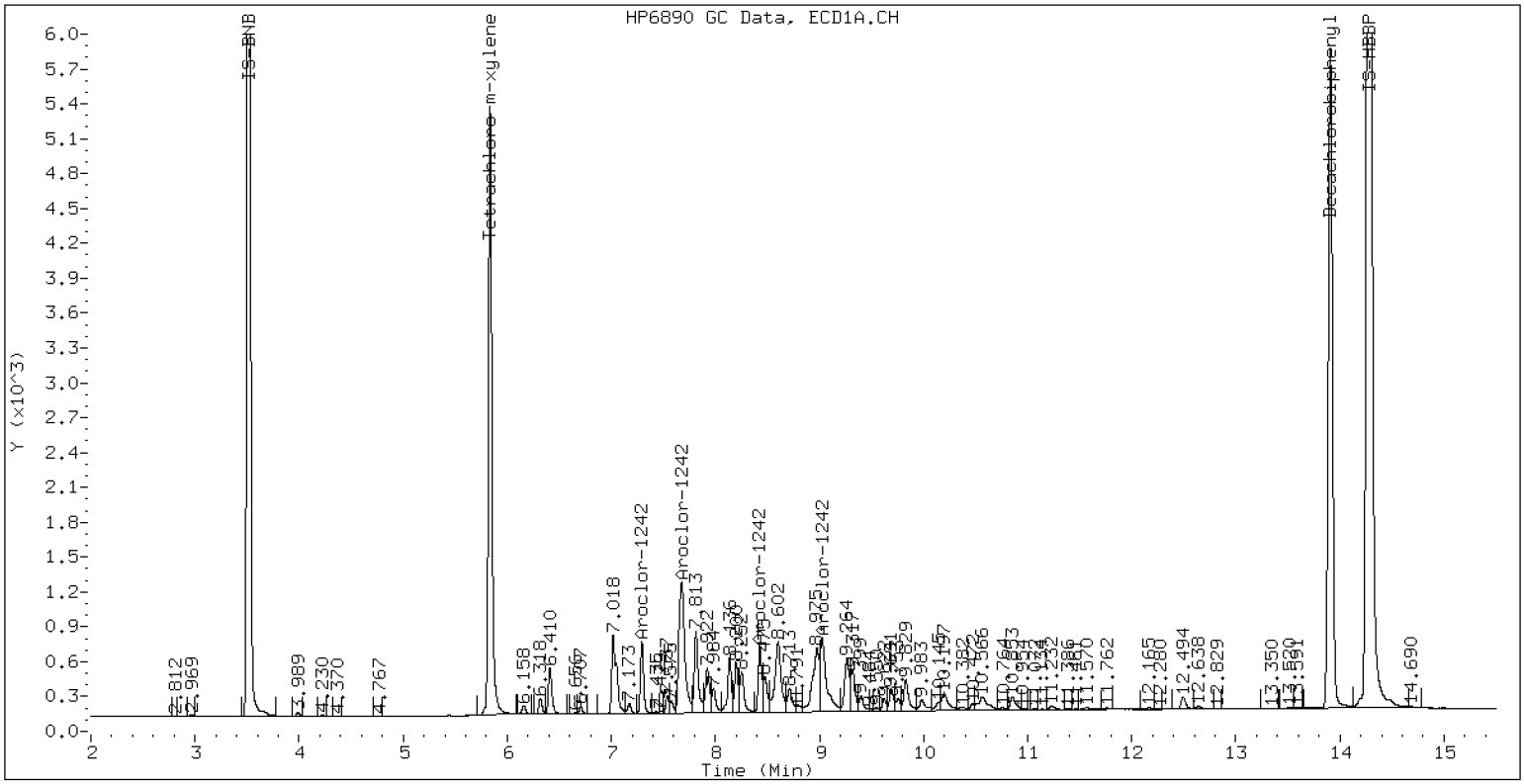
Total PCB Area Col2 (5.936 - 13.808) = 398143 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

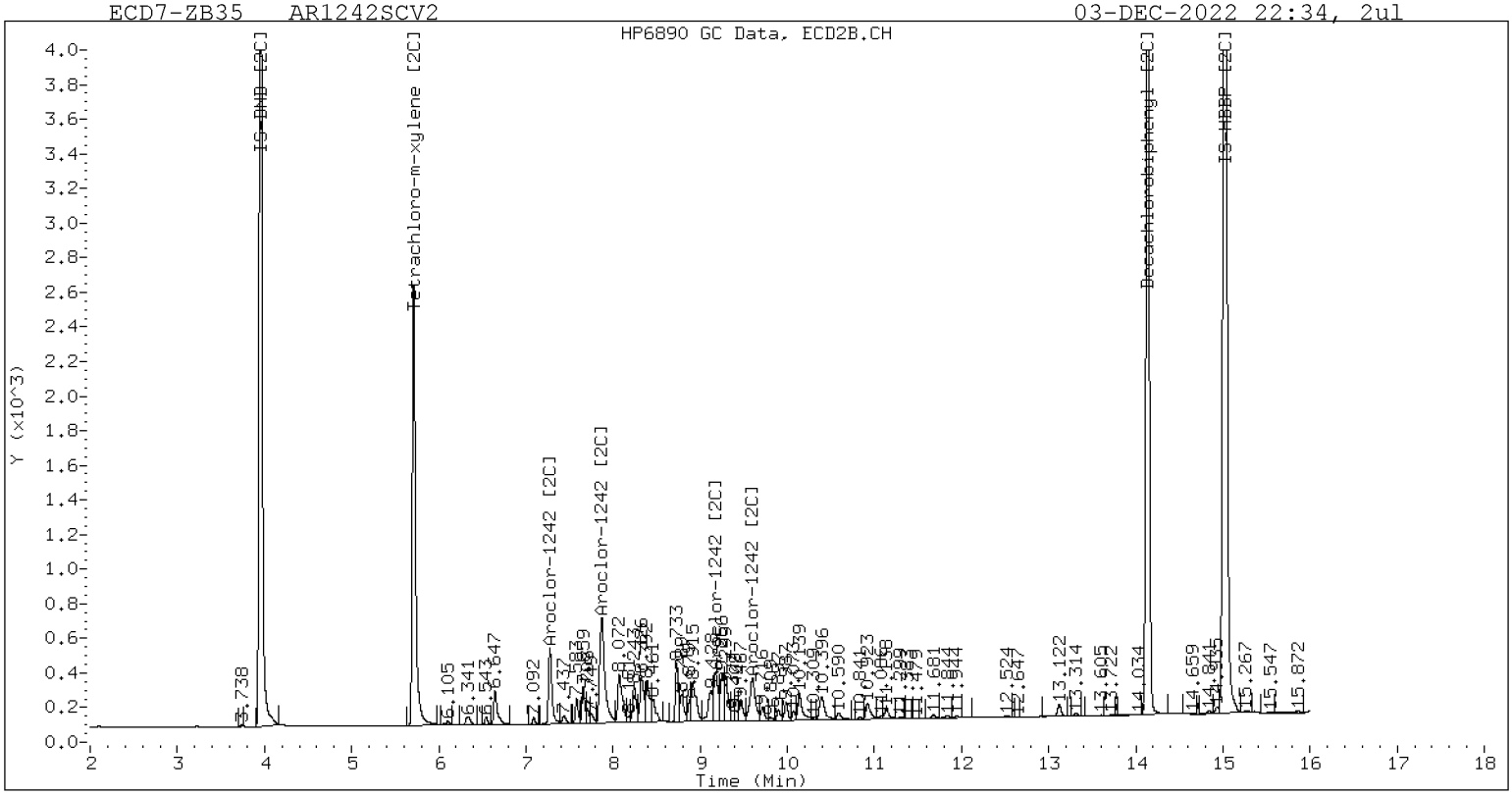
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242SCV2 03-DEC-2022 22:34, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242SCV2 03-DEC-2022 22:34, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12032224ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0048	Injection Date:	12/03/22
Lab Sample ID:	SKL0048-SCV3	Injection Time:	22:55
Sequence Name:	AR1248SCV3		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	246	0.0490062	0.0480752		-1.8	+/-20
Aroclor 1248 [2C]	A	250.00	230	0.0394876	0.0363529		-7.9	+/-20
Decachlorobiphenyl	A	40.000	39.3	0.7333327	0.7205014		-1.7	+/-20
Tetrachlorometaxylene	A	40.000	34.7	1.1336710	0.9836260		-13.2	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.1	1.1358180	1.0816130		-4.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	35.1	1.0966080	0.9613644		-12.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032224ECD7.D
Data file 2: /221203.b/221203.b/12032224ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248SCV3
Client ID:
Injection Date: 03-DEC-2022 22:55
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	238518	5.713	-0.001	130772	34.7	35.1	1.0	Tetrachloro-m-xylene
13.909	0.001	329816	14.137	0.000	230748	39.3	38.1	3.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	484977	8.3
Hexabromobiphenyl	798898	915518	14.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	272055	9.2
Hexabromobiphenyl	362541	426674	17.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.427	-0.000	49184	235.9	1	8.326	0.000	25647	230.8
Aroclor-1248	2	8.604	0.002	62884	236.2	2	8.733	0.000	26944	230.5
Aroclor-1248	3	9.021	-0.002	117065	244.4	3	9.179	0.001	32692	229.9
Aroclor-1248	4	9.315	0.000	62309	265.6	4	9.604	0.002	38342	229.7

Total Col1Ave (4 peaks): 245.5 Total Col2Ave (4 peaks): 230.2 RPD = 6

Corrected Ave (3 peaks): 238.8 Corrected Ave (3 peaks): 230.0 RPD = 4

Total PCB Area Col1 (5.936 - 13.808) = 991353 Col1 Total PCB = 0.2 ppm*

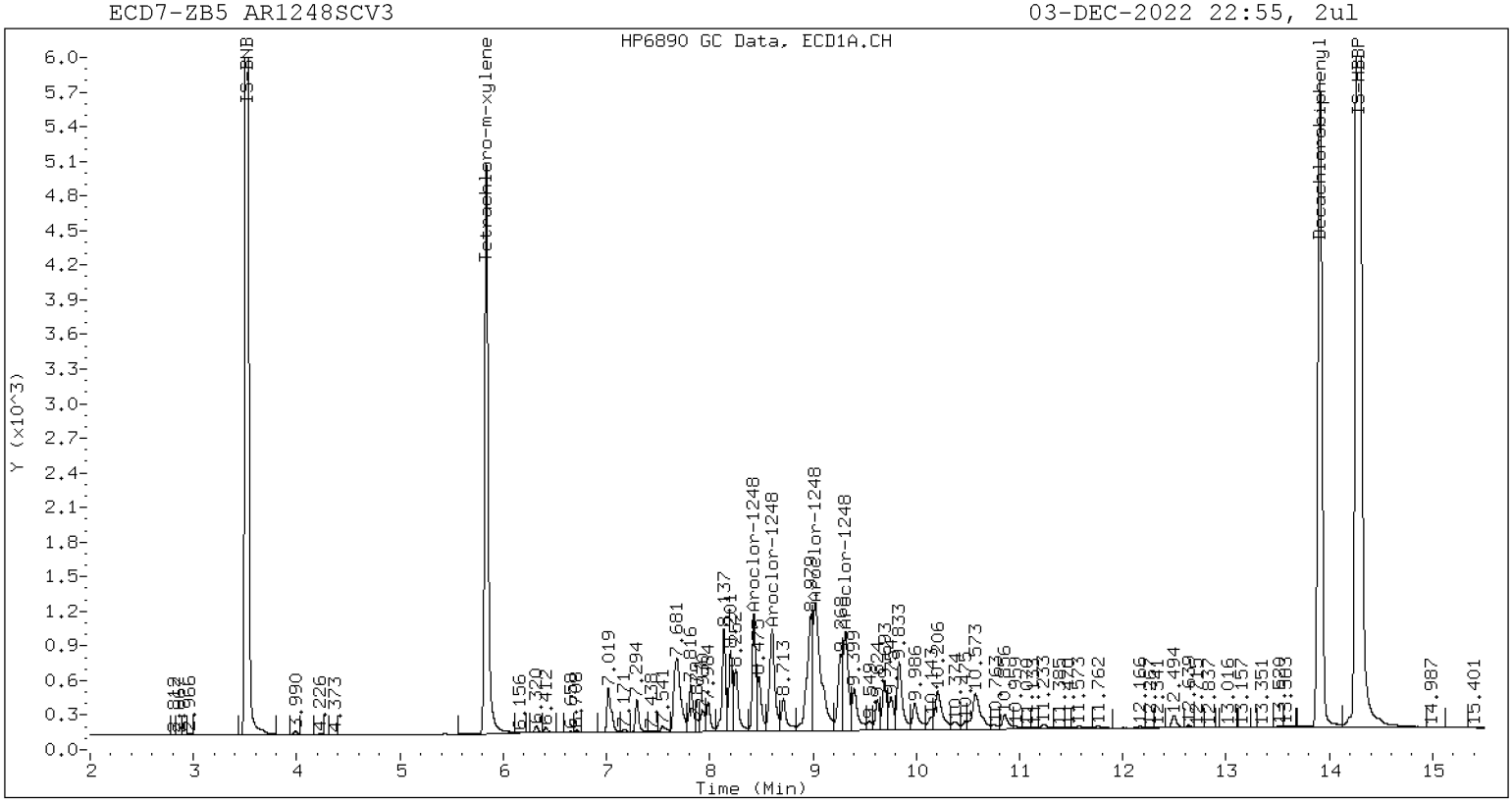
Total PCB Area Col2 (5.936 - 13.808) = 508870 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

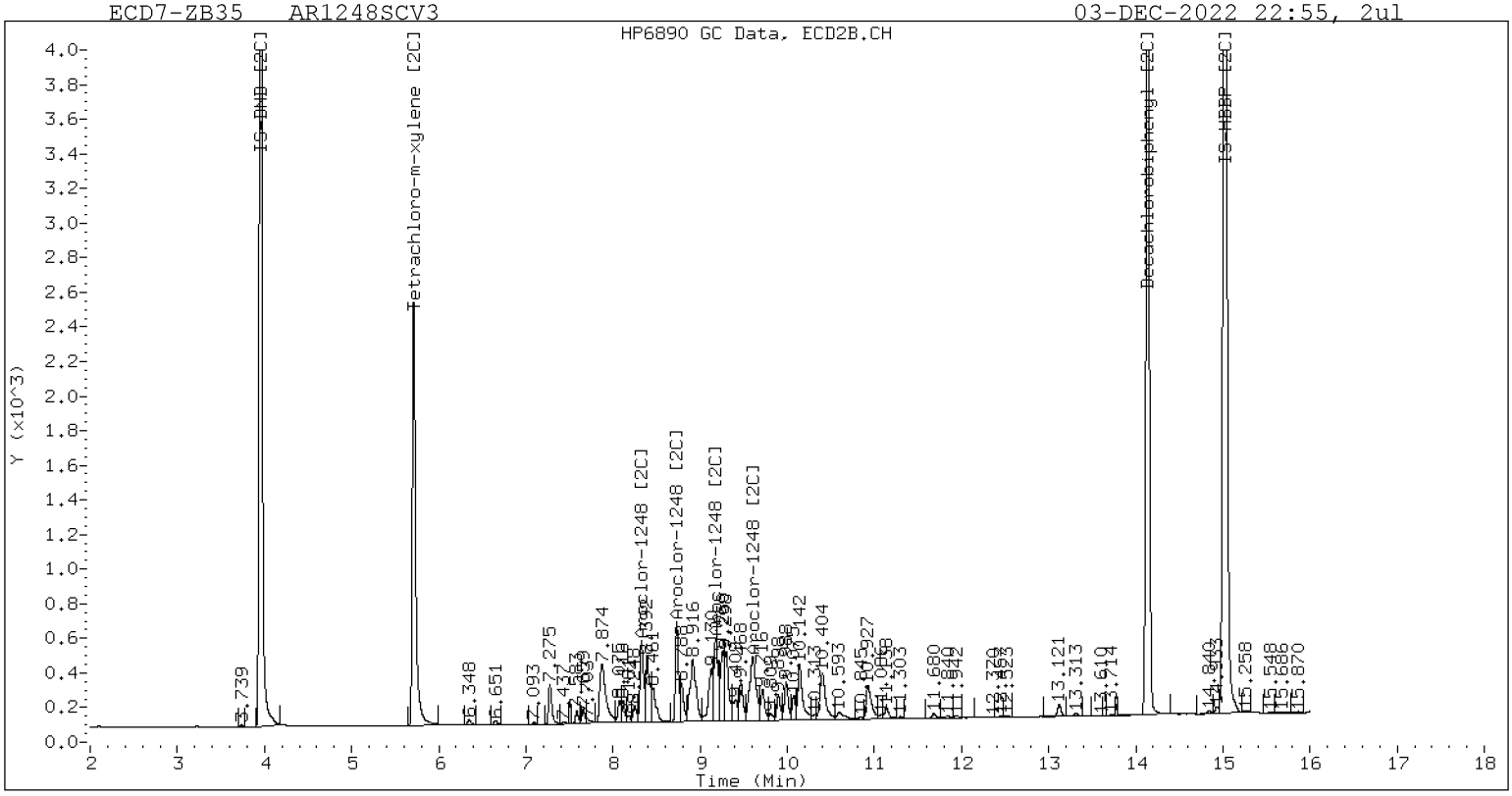
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248SCV3 03-DEC-2022 22:55, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248SCV3 03-DEC-2022 22:55, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12032225ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0048	Injection Date:	12/03/22
Lab Sample ID:	SKL0048-SCV4	Injection Time:	23:17
Sequence Name:	AR1254SCV4		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1254	A	250.00	228	0.0576965	0.0519120		-8.8	+/-20
Aroclor 1254 [2C]	A	250.00	231	0.0638047	0.0582302		-7.7	+/-20
Decachlorobiphenyl	A	40.000	39.5	0.7333327	0.7250146		-1.1	+/-20
Tetrachlorometaxylene	A	40.000	35.5	1.1336710	1.0063630		-11.2	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.1	1.1358180	1.0811430		-4.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.0	1.0966080	0.9868455		-10.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032225ECD7.D
Data file 2: /221203.b/221203.b/12032225ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254SCV4
Client ID:
Injection Date: 03-DEC-2022 23:17
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	243863	5.713	-0.000	133610	35.5	36.0	1.4	Tetrachloro-m-xylene
13.909	0.001	332566	14.137	-0.000	233115	39.5	38.1	3.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	484642	8.3
Hexabromobiphenyl	798898	917405	14.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270782	8.7
Hexabromobiphenyl	362541	431238	18.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1254	1	9.321	0.003	94448	221.3	1	9.469	0.002	39410	225.7
Aroclor-1254	2	9.401	0.003	41171	248.1	2	9.989	0.002	31415	223.8
Aroclor-1254	3	9.692	0.004	60946	226.1	3	10.143	0.004	66244	219.6
Aroclor-1254	4	9.832	0.004	116490	221.7	4	10.392	0.003	70095	224.3
Aroclor-1254	5	10.199	0.005	80050	222.3	5	10.588	0.002	39206	260.2

Total Col1Ave (5 peaks): 227.9 Total Col2Ave (5 peaks): 230.7 RPD = 1

Corrected Ave (4 peaks): 222.9 Corrected Ave (4 peaks): 223.4 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 1261470 Col1 Total PCB = 0.2 ppm*

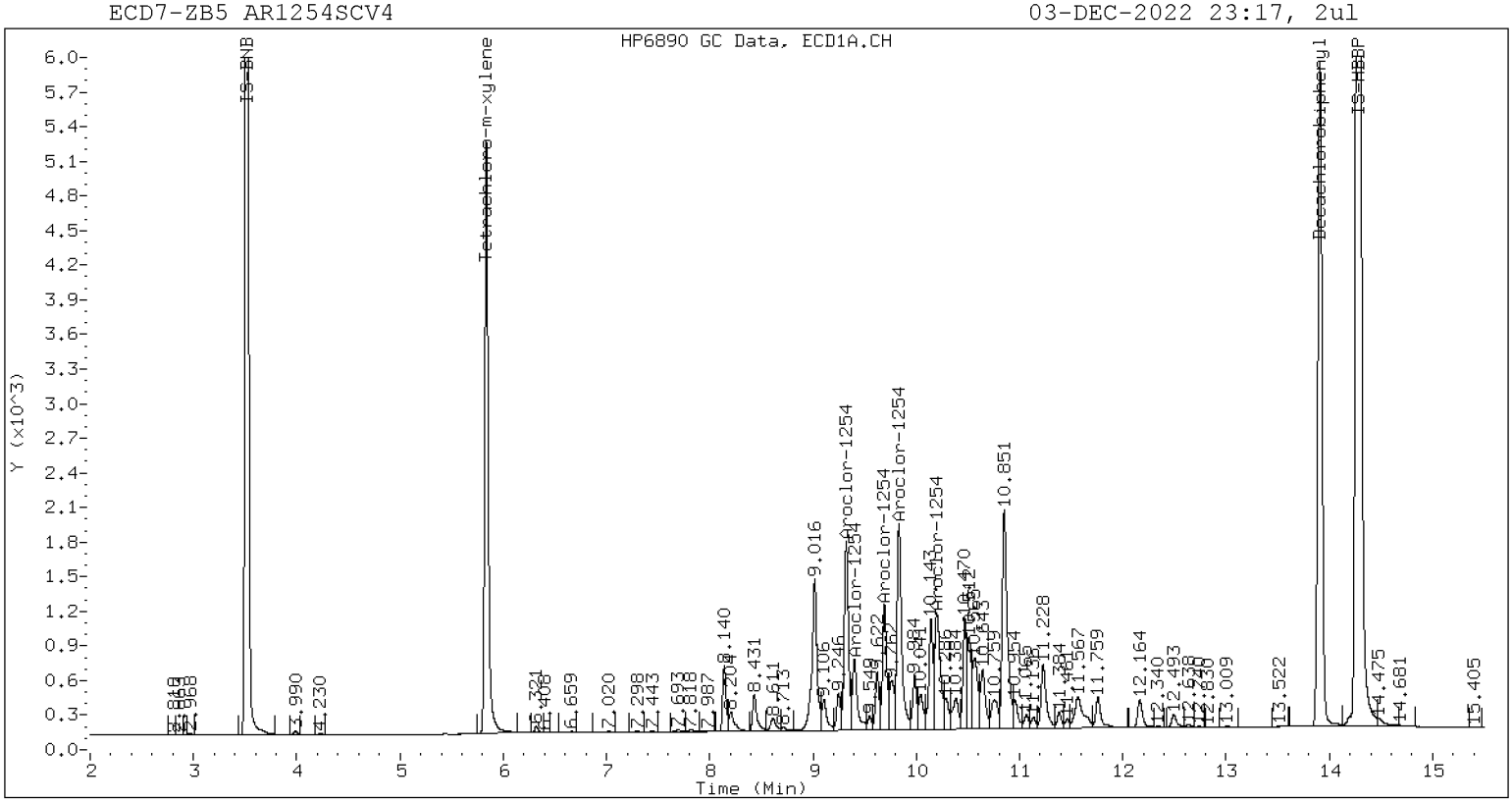
Total PCB Area Col2 (5.936 - 13.808) = 664781 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

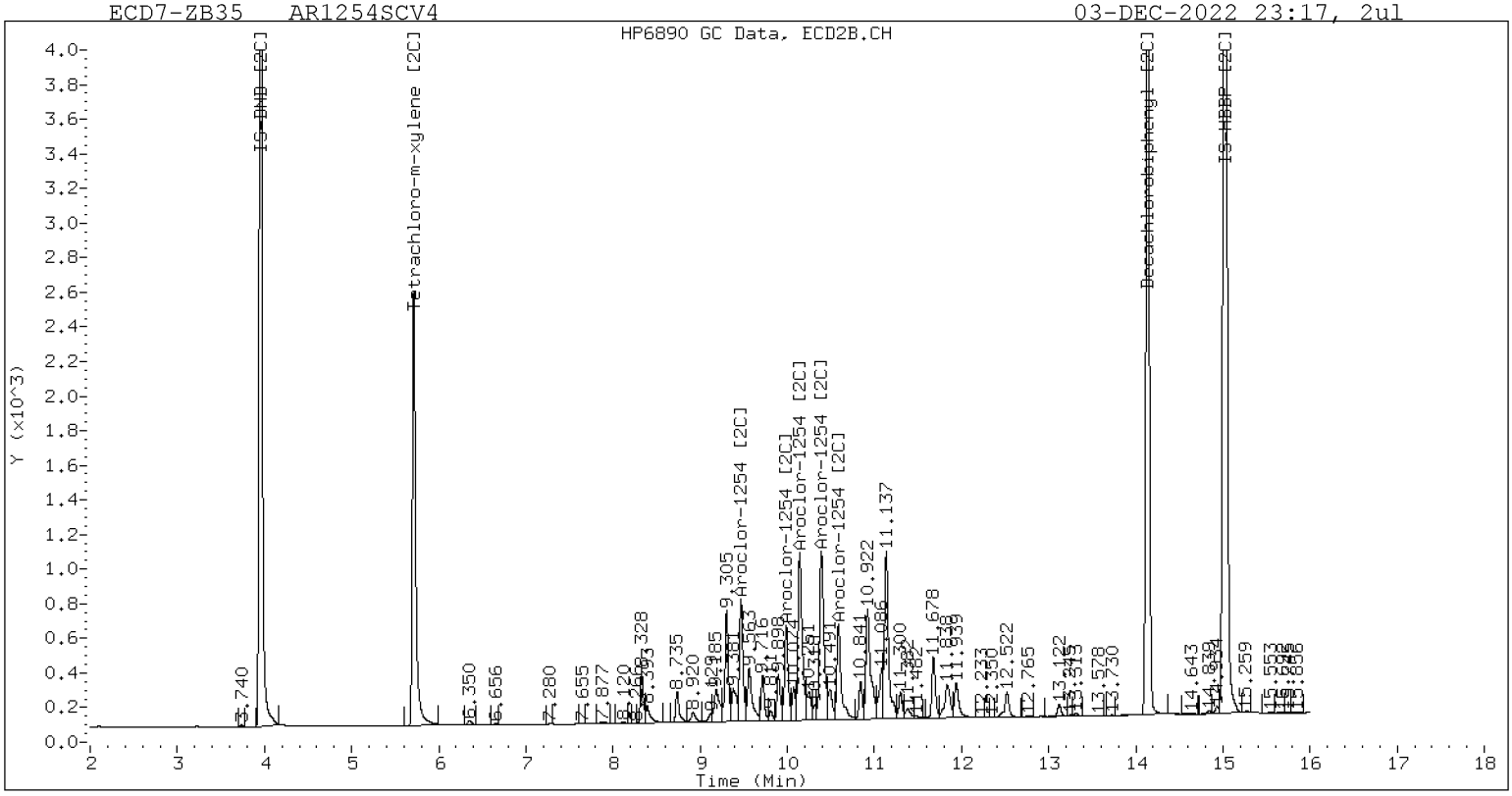
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254SCV4 03-DEC-2022 23:17, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254SCV4 03-DEC-2022 23:17, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12032226ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0048	Injection Date:	12/03/22
Lab Sample ID:	SKL0048-SCV5	Injection Time:	23:38
Sequence Name:	AR2162SCV5		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1221	A	250.00	237	0.0150468	0.0142259		-5.3	+/-20
Aroclor 1221 [2C]	A	250.00	236	0.0137578	0.0128521		-5.7	+/-20
Aroclor 1262	A	500.00	469	0.0371038	0.0347825		-6.2	+/-20
Aroclor 1262 [2C]	A	500.00	464	0.0656640	0.0610321		-7.1	+/-20
Decachlorobiphenyl	A	40.000	40.0	0.7333327	0.7330667		-0.04	+/-20
Tetrachlorometaxylene	A	40.000	36.1	1.1336710	1.0221760		-9.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.4	1.1358180	1.0912900		-3.9	+/-20
Tetrachlorometaxylene [2C]	A	40.000	35.7	1.0966080	0.9776713		-10.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032226ECD7.D
Data file 2: /221203.b/221203.b/12032226ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR2162.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162SCV5
Client ID:
Injection Date: 03-DEC-2022 23:38
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	0.000	246394	5.713	-0.000	131378	36.1	35.7	1.1	Tetrachloro-m-xylene
13.908	-0.001	334929	14.136	-0.001	237241	40.0	38.4	4.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	482097	7.7
Hexabromobiphenyl	798898	913775	14.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	268757	7.9
Hexabromobiphenyl	362541	434790	19.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1221	1	4.761	0.001	9579	240.4	1	4.988	0.001	5527	243.7
Aroclor-1221	2	6.159	0.001	16402	233.6	2	6.323	0.001	10041	232.3
Aroclor-1221	3	6.410	0.001	38315	236.6	3	6.646	0.001	16814	231.1
Total Col1Ave (3 peaks):					236.8	Total Col2Ave (3 peaks):				235.7 RPD = 0
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1262	1	10.845	-0.003	145305	475.5	1	11.216	-0.001	152840	462.3
Aroclor-1262	2	12.261	-0.001	222795	469.0	2	11.668	-0.002	131097	457.9
Aroclor-1262	3	12.336	-0.001	238475	470.0	3	12.449	-0.002	148386	469.8
Aroclor-1262	4	13.004	-0.001	188009	461.7	4	12.518	-0.001	231081	467.1
Total Col1Ave (4 peaks):					469.1	Total Col2Ave (4 peaks):				464.3 RPD = 1
Corrected Ave (3 peaks):					466.9	Corrected Ave (3 peaks):				462.4 RPD = 1

Total PCB Area Col1 (5.936 - 13.808) = 3654831 Col1 Total PCB = 0.7 ppm*

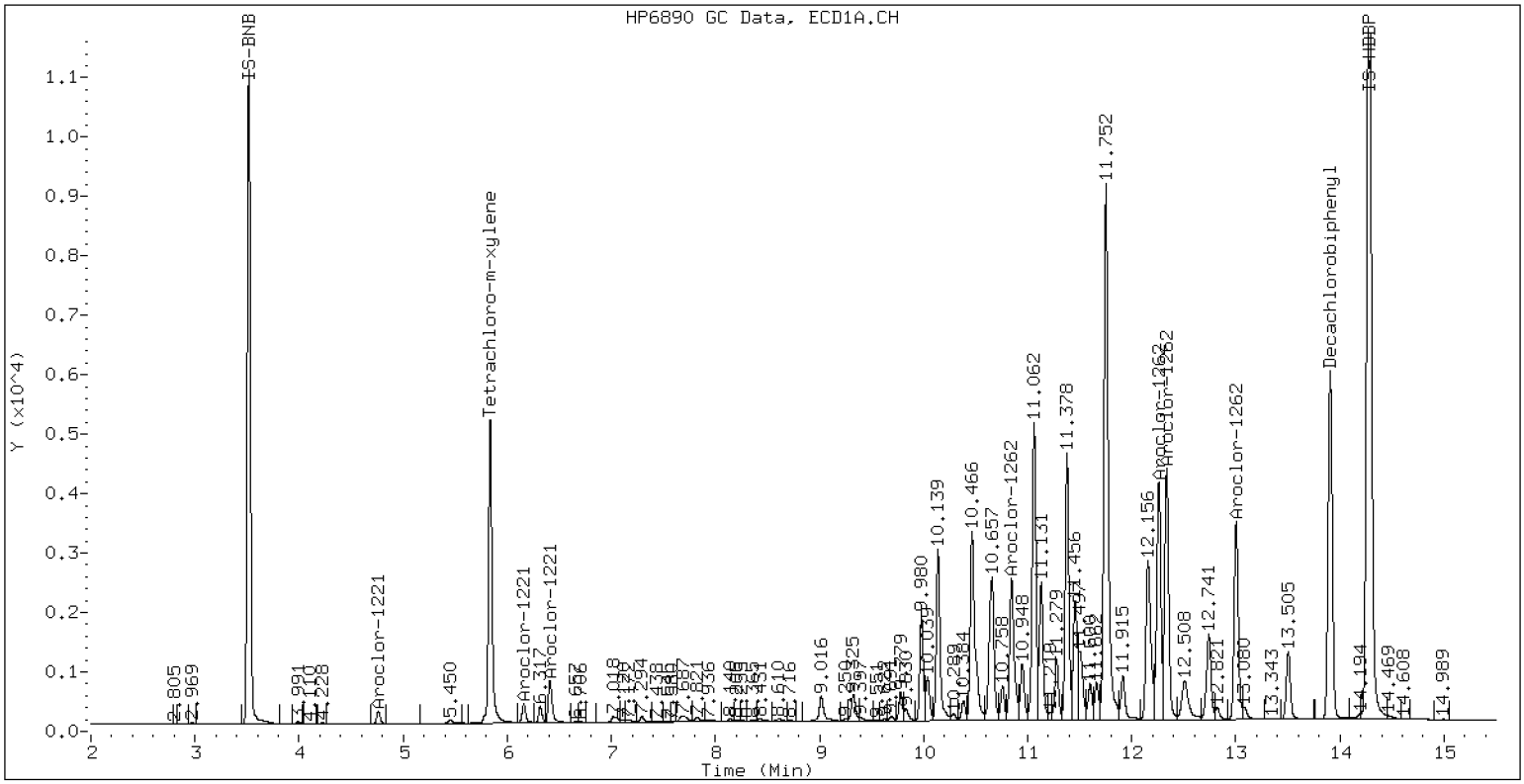
Total PCB Area Col2 (5.936 - 13.808) = 2063978 Col2 Total PCB = 1.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

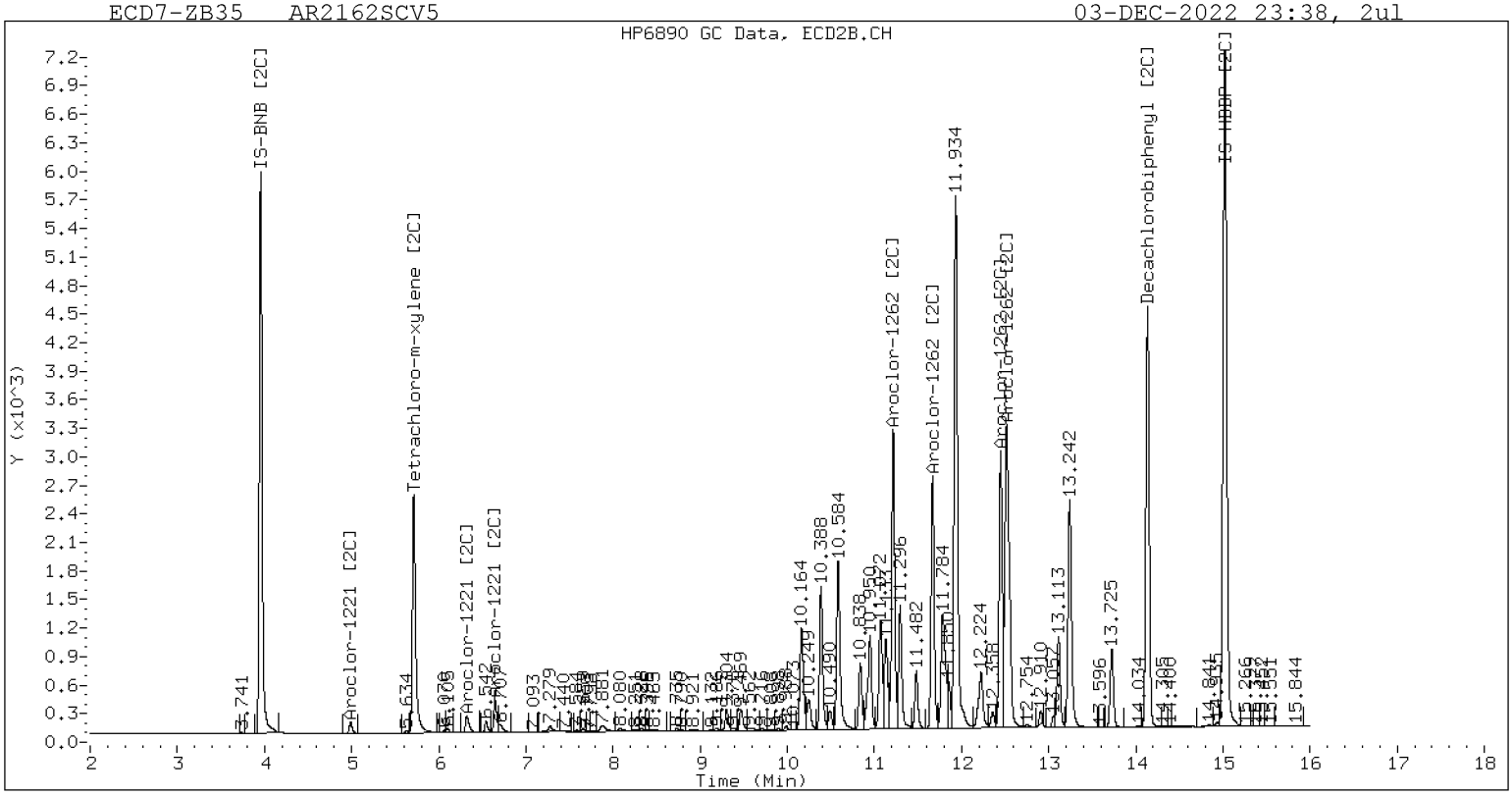
PCB Dual Column Chromatograms

ECD7-ZB5 AR2162SCV5 03-DEC-2022 23:38, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR2162SCV5 03-DEC-2022 23:38, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12032227ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0048	Injection Date:	12/03/22
Lab Sample ID:	SKL0048-SCV6	Injection Time:	23:59
Sequence Name:	AR3268SCV6		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1232	A	250.00	217	0.0165403	0.0146227		-13.4	+/-20
Aroclor 1232 [2C]	A	250.00	230	0.0182815	0.0167216		-7.9	+/-20
Aroclor 1268	A	250.00	231	0.1462909	0.1351224		-7.5	+/-20
Aroclor 1268 [2C]	A	250.00	228	0.1941199	0.1796657		-8.9	+/-20
Decachlorobiphenyl	A	40.000	56.2	0.7333327	1.0299650		40.4	+/-20
Tetrachlorometaxylene	A	40.000	34.5	1.1336710	0.9771642		-13.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	54.9	1.1358180	1.5591590		37.3	+/-20
Tetrachlorometaxylene [2C]	A	40.000	34.2	1.0966080	0.9385176		-14.4	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032227ECD7.D
Data file 2: /221203.b/221203.b/12032227ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR3268.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268SCV6
Client ID:
Injection Date: 03-DEC-2022 23:59
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.834	-0.002	236120	5.711	-0.002	126782	34.5	34.2	0.7	Tetrachloro-m-xylene
13.907	-0.002	474236	14.136	-0.001	339687	56.2	54.9	2.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	483276	8.0
Hexabromobiphenyl	798898	920878	15.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270175	8.5
Hexabromobiphenyl	362541	435731	20.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1232	1	4.758	-0.003	5334	221.8	1	4.986	-0.004	3031	230.7
Aroclor-1232	2	6.158	-0.002	9882	194.6	2	7.276	-0.001	14982	223.3
Aroclor-1232	3	7.684	0.000	51409	225.4	3	7.875	-0.001	29992	228.7
Aroclor-1232	4	8.607	0.001	21710	224.4	4	8.734	0.000	8467	238.1
Total Col1Ave (4 peaks):					216.5	Total Col2Ave (4 peaks):				230.2 RPD = 6
Corrected Ave (3 peaks):					213.6	Corrected Ave (3 peaks):				227.6 RPD = 6
Aroclor-1268	1	12.262	-0.000	296463	230.1	1	12.449	-0.000	189354	230.2
Aroclor-1268	2	12.336	0.001	294353	233.5	2	12.517	0.000	196449	232.9
Aroclor-1268	3	12.715	-0.001	238693	231.1	3	12.909	-0.001	66881	213.9
Aroclor-1268	4	13.506	0.001	725881	230.1	4	13.725	-0.001	525890	233.7
Total Col1Ave (4 peaks):					231.2	Total Col2Ave (4 peaks):				227.7 RPD = 2
Corrected Ave (3 peaks):					230.4	Corrected Ave (3 peaks):				225.7 RPD = 2

Total PCB Area Col1 (5.936 - 13.808) = 2353838 Col1 Total PCB = 0.4 ppm*

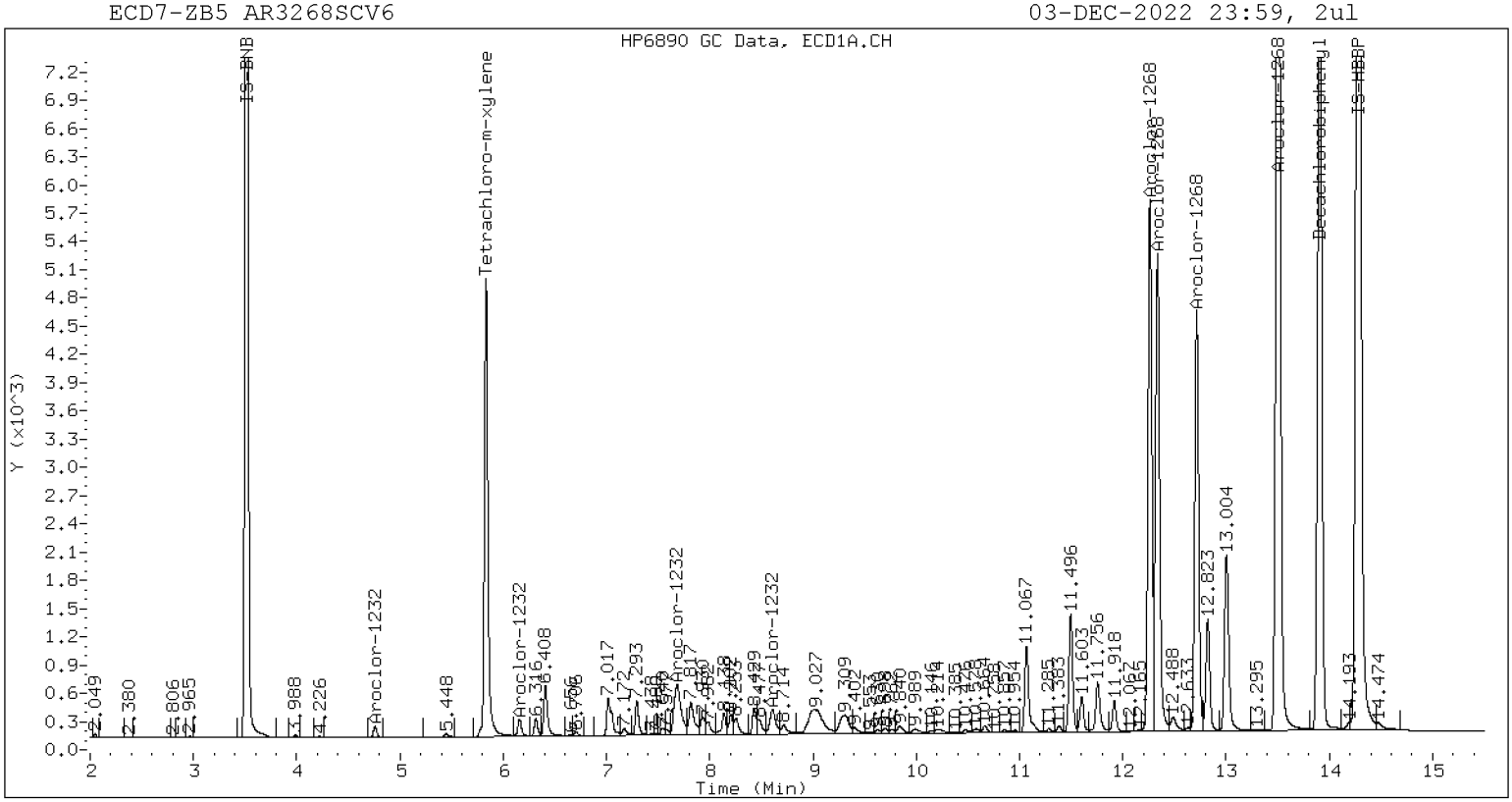
Total PCB Area Col2 (5.936 - 13.808) = 1423323 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

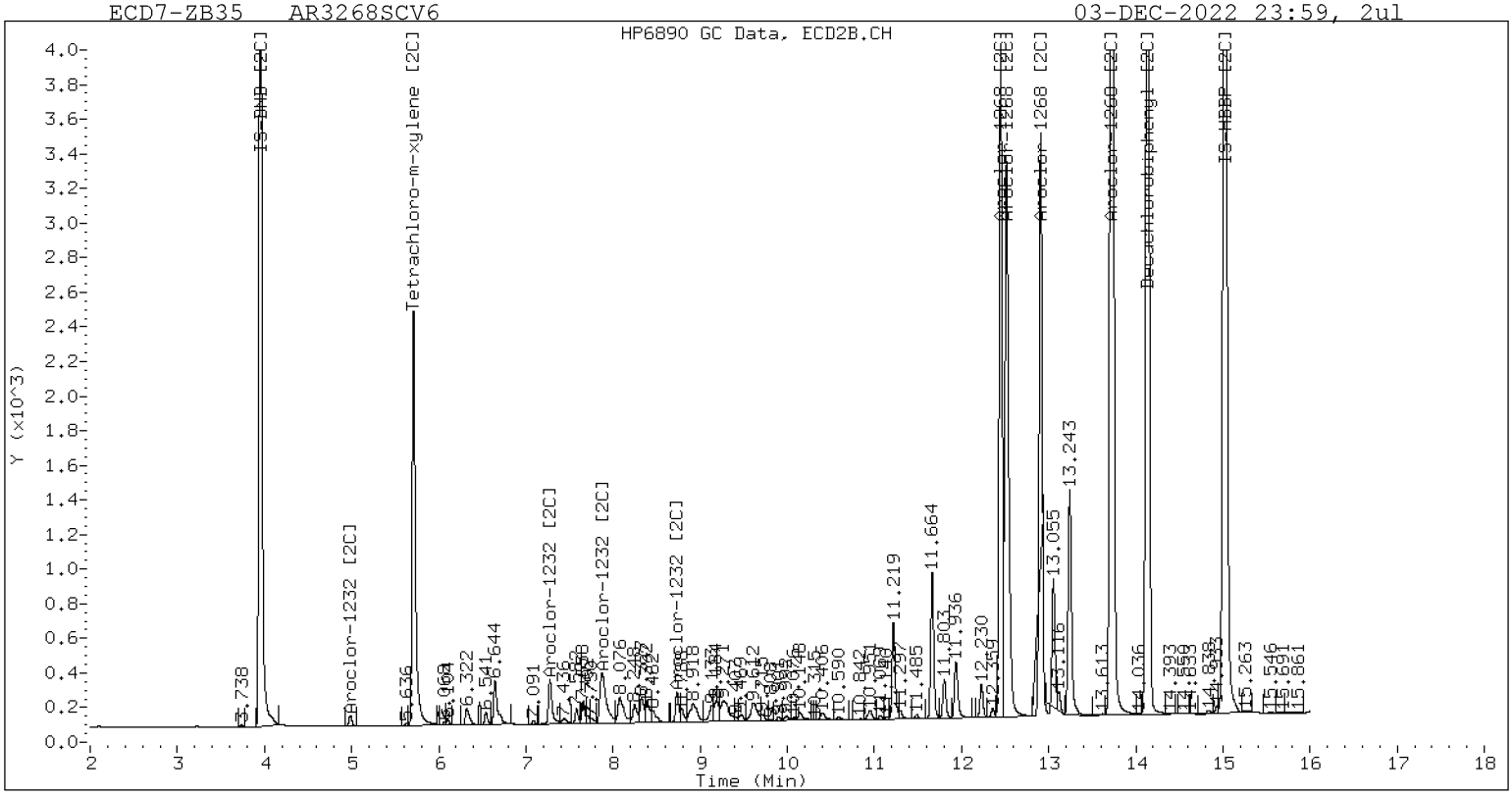
PCB Dual Column Chromatograms

ECD7-ZB5 AR3268SCV6 03-DEC-2022 23:59, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268SCV6 03-DEC-2022 23:59, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12172215ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0280	Injection Date:	12/17/22
Lab Sample ID:	SKL0280-CCV1	Injection Time:	14:14
Sequence Name:	AR1248CCV1		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	257	0.0490062	0.0520958		2.8	+/-20
Aroclor-1248 (1)	A	250.00	266		0.0365674			
Aroclor-1248 (2)	A	250.00	289		0.0508317			
Aroclor-1248 (3)	A	250.00	296		0.0935629			
Aroclor-1248 (4)	A	250.00	177		0.0274210			
Aroclor 1248 [2C]	A	250.00	244	0.0394876	0.0386833		-2.5	+/-20
Aroclor-1248 (1) [2C]	A	250.00	252		0.0330109			
Aroclor-1248 (2) [2C]	A	250.00	214		0.0294777			
Aroclor-1248 (3) [2C]	A	250.00	267		0.0446832			
Aroclor-1248 (4) [2C]	A	250.00	242		0.0475613			
Decachlorobiphenyl	A	40.000	42.6	0.7333327	0.7813275		6.5	+/-20
Tetrachlorometaxylene	A	40.000	37.2	1.1336710	1.0557270		-7.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	37.9	1.1358180	1.0753700		-5.3	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.6	1.0966080	1.0027760		-8.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172215ECD7.D
Data file 2: /221217.b/221217.b/12172215ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCV1
Client ID:
Injection Date: 17-DEC-2022 14:14
Report Date: 12/20/2022 15:07
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.835	-0.001	235784	5.712	0.002	131506	37.2	36.6	1.8	Tetrachloro-m-xylene
13.907	-0.001	328649	14.134	0.001	227493	42.6	37.9	11.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	446676	-0.2
Hexabromobiphenyl	798898	841258	5.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	262284	5.3
Hexabromobiphenyl	362541	423097	16.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.428	0.001	51043	265.8	1	8.326	0.001	27057	252.5
Aroclor-1248	2	8.605	0.001	70954	289.4	2	8.732	0.002	24161	214.4
Aroclor-1248	3	9.022	0.000	130601	296.1	3	9.178	0.003	36624	267.2
Aroclor-1248	4	9.313	0.002	38276	177.1	4	9.602	0.004	38983	242.3
Total Col1Ave (4 peaks):					257.1	Total Col2Ave (4 peaks):				244.1 RPD = 5
Corrected Ave (3 peaks):					244.1	Corrected Ave (3 peaks):				236.4 RPD = 3
CalAmt %D:					2.8	CalAmt %D:				-2.4

Total PCB Area Col1 (5.936 - 13.808) = 1147716 Col1 Total PCB = 0.2 ppm*

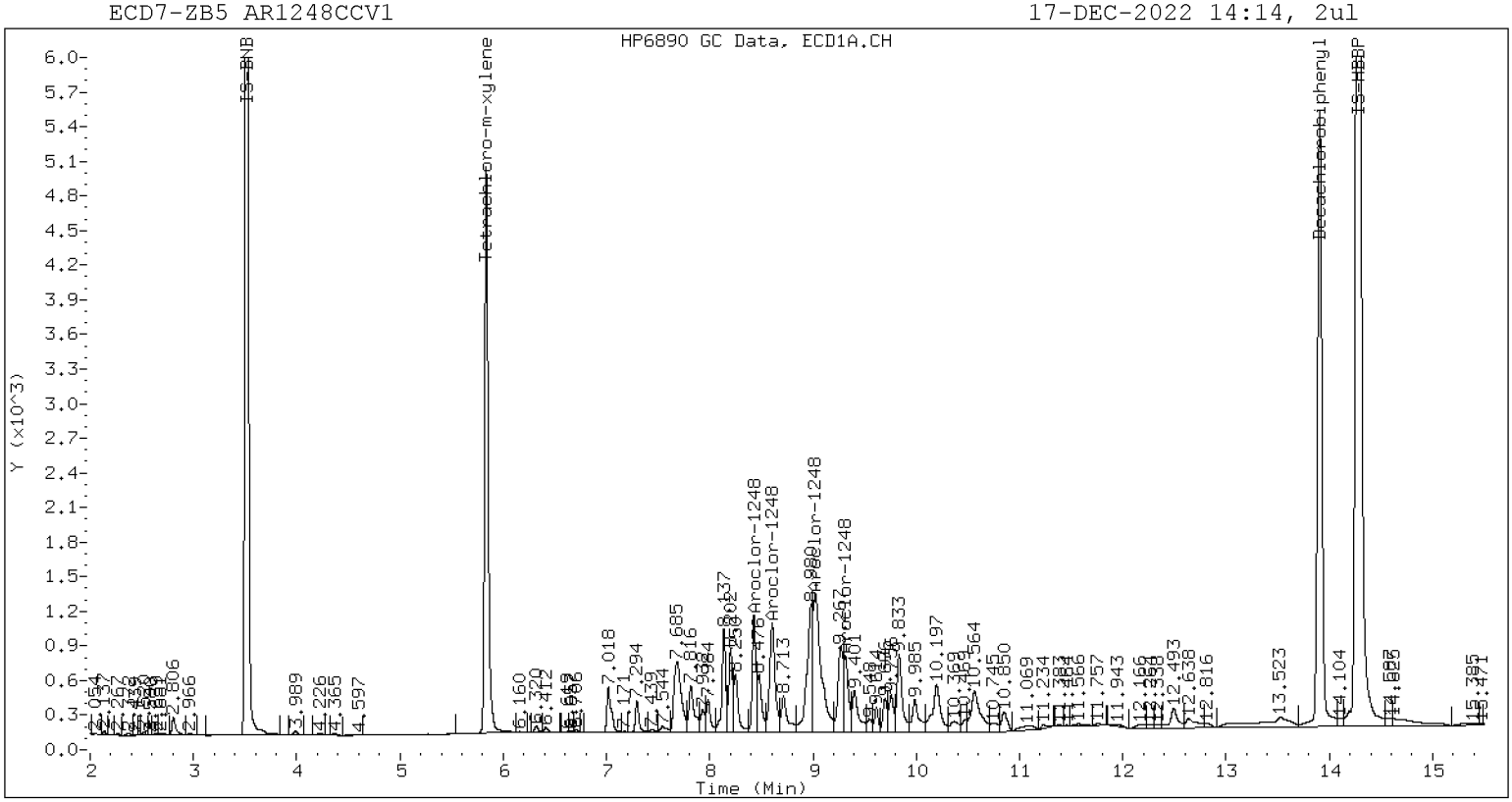
Total PCB Area Col2 (5.936 - 13.808) = 510632 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

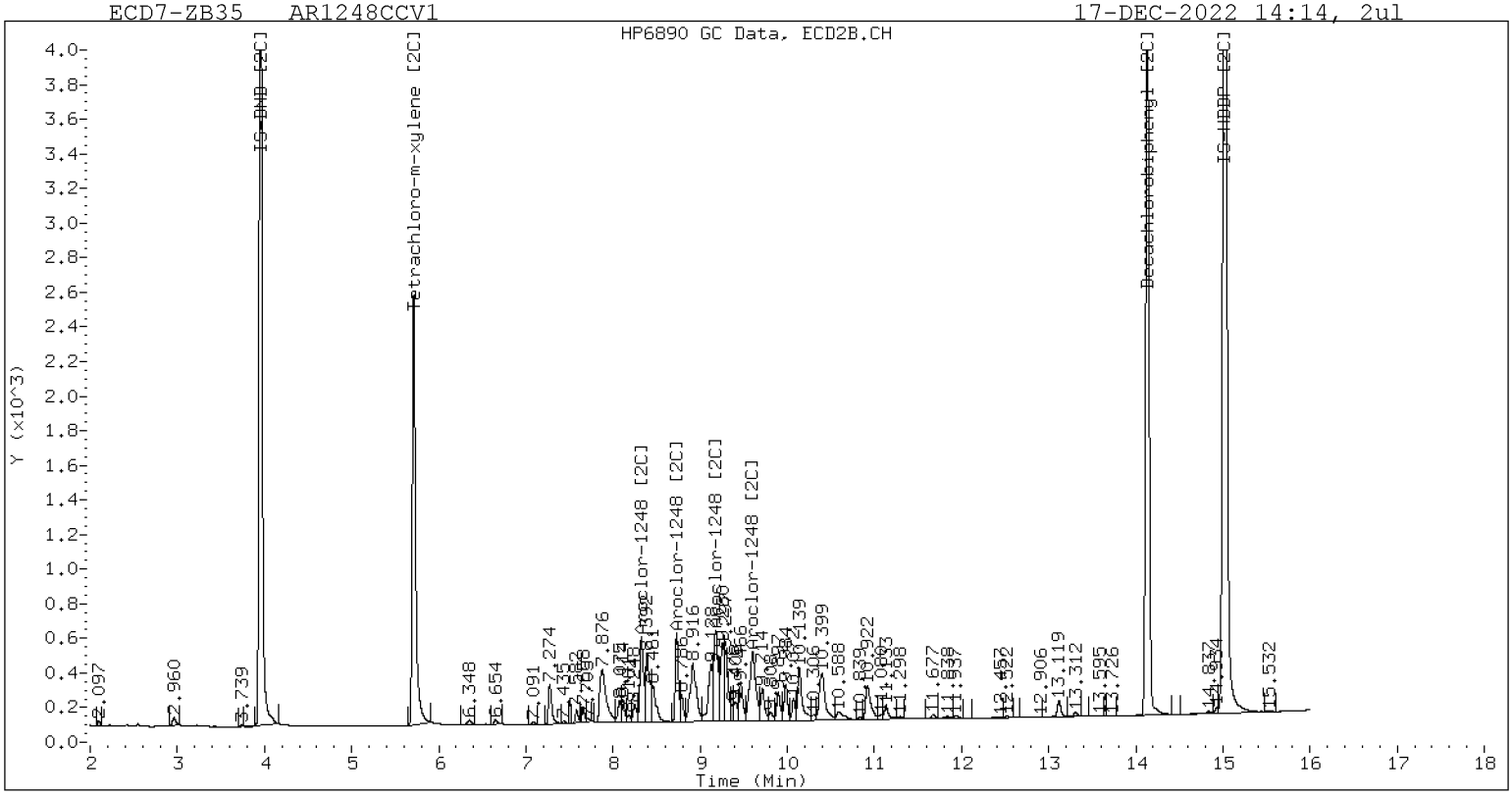
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV1 17-DEC-2022 14:14, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248CCV1 17-DEC-2022 14:14, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12172216ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0280	Injection Date:	12/17/22
Lab Sample ID:	SKL0280-CCV2	Injection Time:	14:35
Sequence Name:	AR1660CCV2		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	293	0.0441939	0.0507098		17.1	+/-20
Aroclor-1016 (1)	A	250.00	297	0.0266860	0.0316907		18.8	
Aroclor-1016 (2)	A	250.00	274	0.0861572	0.0943956		9.6	
Aroclor-1016 (3)	A	250.00	300	0.0390425	0.0469096		20.0	
Aroclor-1016 (4)	A	250.00	300	0.0248899	0.0298432		20.0	
Aroclor 1016 [2C]	A	250.00	241	0.0467310	0.0446358		-3.5	+/-20
Aroclor-1016 (1) [2C]	A	250.00	245	0.0409030	0.0401138		-2.0	
Aroclor-1016 (2) [2C]	A	250.00	235	0.0882154	0.0828552		-6.0	
Aroclor-1016 (3) [2C]	A	250.00	235	0.0378846	0.0356846		-6.0	
Aroclor-1016 (4) [2C]	A	250.00	250	0.0199212	0.0198895		0.0	
Aroclor 1260	A	250.00	264	0.0390342	0.0410662		5.4	+/-20
Aroclor-1260 (1)	A	250.00	263	0.0291201	0.0306415		5.2	
Aroclor-1260 (2)	A	250.00	270	0.0301181	0.0325711		8.0	
Aroclor-1260 (3)	A	250.00	268	0.0791351	0.0849073		7.2	
Aroclor-1260 (4)	A	250.00	242	0.0403003	0.0390577		-3.2	
Aroclor-1260 (5)	A	250.00	275	0.0164974	0.0181533		10.0	
Aroclor 1260 [2C]	A	250.00	212	0.0617619	0.0523790		-15.1	+/-20
Aroclor-1260 (1) [2C]	A	250.00	204	0.0422283	0.0345566		-18.4	
Aroclor-1260 (2) [2C]	A	250.00	209	0.1059643	0.0886550		-16.4	
Aroclor-1260 (3) [2C]	A	250.00	217	0.0282173	0.0245355		-13.2	
Aroclor-1260 (4) [2C]	A	250.00	219	0.0706376	0.0617688		-12.4	
Decachlorobiphenyl	A	40.000	43.3	0.7333327	0.7946229		8.3	+/-20
Tetrachlorometaxylene	A	40.000	41.7	1.1336710	1.1820460		4.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.0	1.1358180	1.0784860		-5.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	39.3	1.0966080	1.0769520		-1.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172216ECD7.D
Data file 2: /221217.b/221217.b/12172216ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV2
Client ID:
Injection Date: 17-DEC-2022 14:35
Report Date: 12/20/2022 15:07
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.834	-0.002	218867	5.711	0.001	118889	41.7	39.3	6.0	Tetrachloro-m-xylene
13.906	-0.002	315215	14.133	-0.000	203774	43.3	38.0	13.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	370319	-17.3
Hexabromobiphenyl	798898	793370	-0.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	220788	-11.4
Hexabromobiphenyl	362541	377889	4.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.292	-0.002	36674	296.9	1	7.275	0.001	27677	245.2
Aroclor-1016	2	7.682	-0.002	109239	273.9	2	7.876	0.004	57167	234.8
Aroclor-1016	3	7.816	-0.002	54286	300.4	3	8.074	0.002	24621	235.5
Aroclor-1016	4	8.427	-0.002	34536	299.8	4	8.246	0.003	13723	249.6
Total Col1Ave (4 peaks):					292.7	Total Col2Ave (4 peaks):				241.3 RPD = 19
Corrected Ave (3 peaks):					290.2	Corrected Ave (3 peaks):				238.5 RPD = 20
CalAmt %D:					17.1	CalAmt %D:				-3.5
Aroclor-1260	1	11.061	-0.001	75969	263.1	1	11.668	0.001	40808	204.6
Aroclor-1260	2	11.377	-0.000	80753	270.4	2	11.931	0.001	104693	209.2
Aroclor-1260	3	11.751	-0.001	210509	268.2	3	12.450	0.001	28974	217.4
Aroclor-1260	4	12.157	-0.001	96835	242.3	4	12.515	0.002	72943	218.6
Aroclor-1260	5	12.260	-0.001	45007	275.1	NS	---			----
Total Col1Ave (5 peaks):					263.8	Total Col2Ave (4 peaks):				212.4 RPD = 22
Corrected Ave (4 peaks):					261.0	Corrected Ave (3 peaks):				210.4 RPD = 21
CalAmt %D:					5.5	CalAmt %D:				-15.0

Total PCB Area Col1 (5.936 - 13.808) = 2300291 Col1 Total PCB = 0.5 ppm*

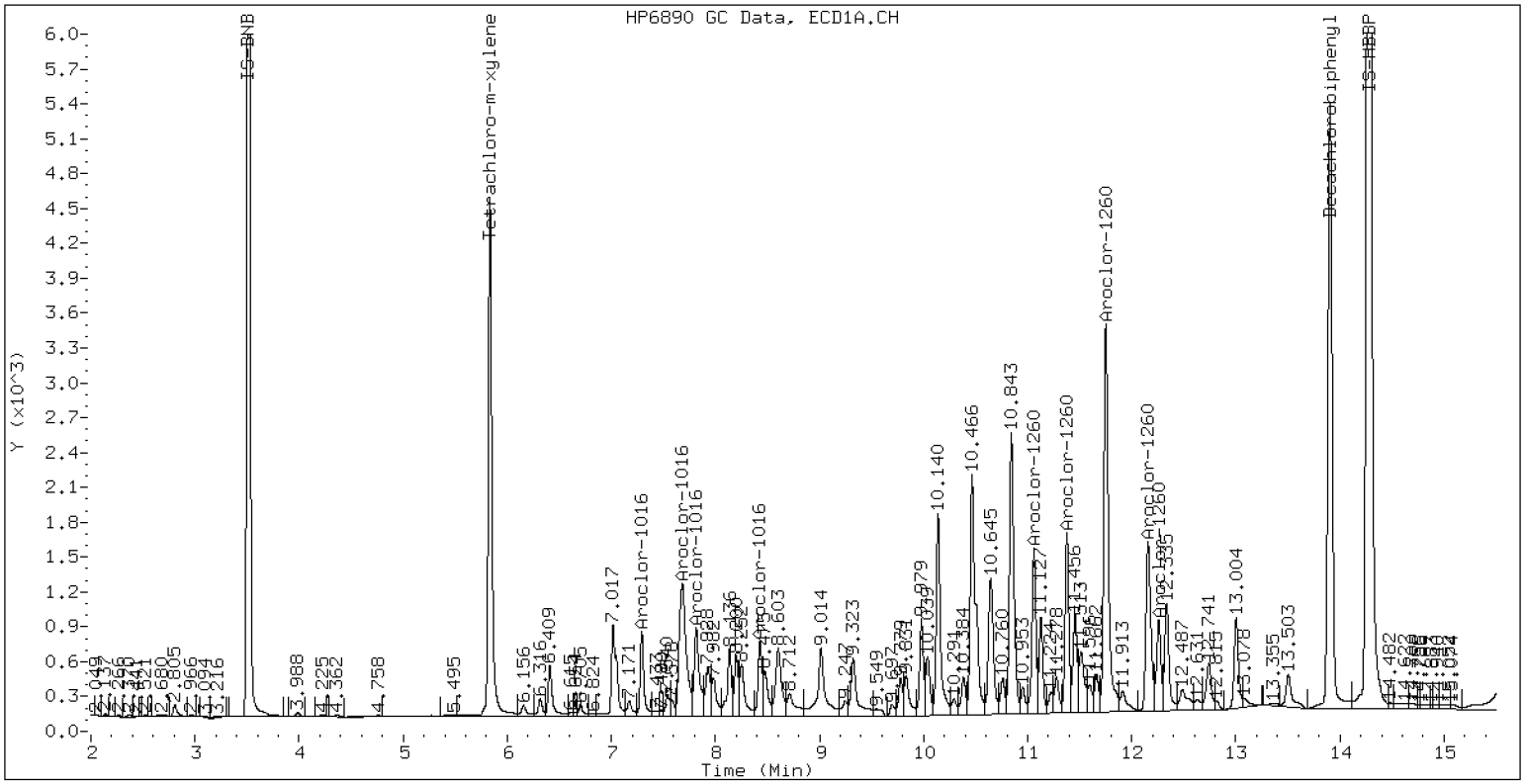
Total PCB Area Col2 (5.936 - 13.808) = 1028628 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

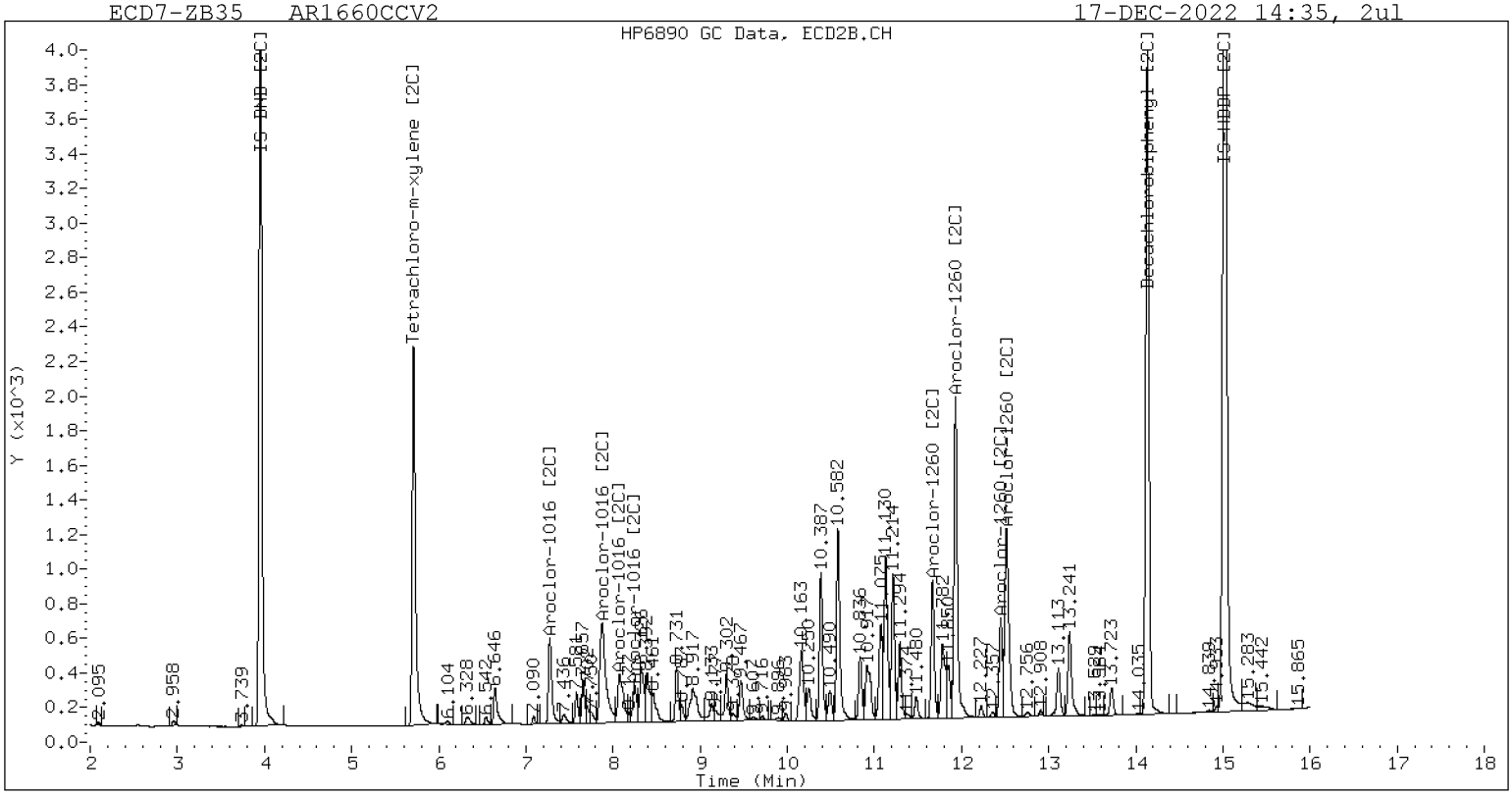
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV2 17-DEC-2022 14:35, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV2 17-DEC-2022 14:35, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12172227ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0280	Injection Date:	12/17/22
Lab Sample ID:	SKL0280-CCV3	Injection Time:	18:29
Sequence Name:	AR1242CCV3		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	276	0.0396000	0.0435459		10.4	+/-20
Aroclor-1242 (1)	A	250.00	260		0.0236265			
Aroclor-1242 (2)	A	250.00	266		0.0764970			
Aroclor-1242 (3)	A	250.00	285		0.0235837			
Aroclor-1242 (4)	A	250.00	293		0.0504765			
Aroclor 1242 [2C]	A	250.00	247	0.0391981	0.0375823		-1.2	+/-20
Aroclor-1242 (1) [2C]	A	250.00	247		0.0334222			
Aroclor-1242 (2) [2C]	A	250.00	223		0.0641787			
Aroclor-1242 (3) [2C]	A	250.00	270		0.0250664			
Aroclor-1242 (4) [2C]	A	250.00	248		0.0276618			
Decachlorobiphenyl	A	40.000	42.8	0.7333327	0.7854166		7.0	+/-20
Tetrachlorometaxylene	A	40.000	38.0	1.1336710	1.0771850		-5.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	37.4	1.1358180	1.0613770		-6.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.8	1.0966080	1.0370560		-5.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172227ECD7.D
Data file 2: /221217.b/221217.b/12172227ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242CCV3
Client ID:
Injection Date: 17-DEC-2022 18:29
Report Date: 12/20/2022 15:08
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.835	-0.001	229581	5.712	0.002	129969	38.0	37.8	0.5	Tetrachloro-m-xylene
13.906	-0.002	285841	14.132	-0.001	200855	42.8	37.4	13.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	426261	-4.8
Hexabromobiphenyl	798898	727871	-8.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	250650	0.6
Hexabromobiphenyl	362541	378480	4.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.292	-0.002	31472	260.5	1	7.275	0.001	26179	246.8
Aroclor-1242	2	7.681	-0.004	101899	265.6	2	7.873	0.000	50270	223.2
Aroclor-1242	3	8.427	-0.003	31415	284.6	3	9.178	0.003	19634	270.2
Aroclor-1242	4	9.031	-0.001	67238	293.4	4	9.601	0.003	21667	248.1
Total Col1Ave (4 peaks):					276.0	Total Col2Ave (4 peaks):				247.1 RPD = 11
Corrected Ave (3 peaks):					270.2	Corrected Ave (3 peaks):				239.4 RPD = 12
CalAmt %D:					10.4	CalAmt %D:				-1.2

Total PCB Area Col1 (5.936 - 13.808) = 981854 Col1 Total PCB = 0.2 ppm*

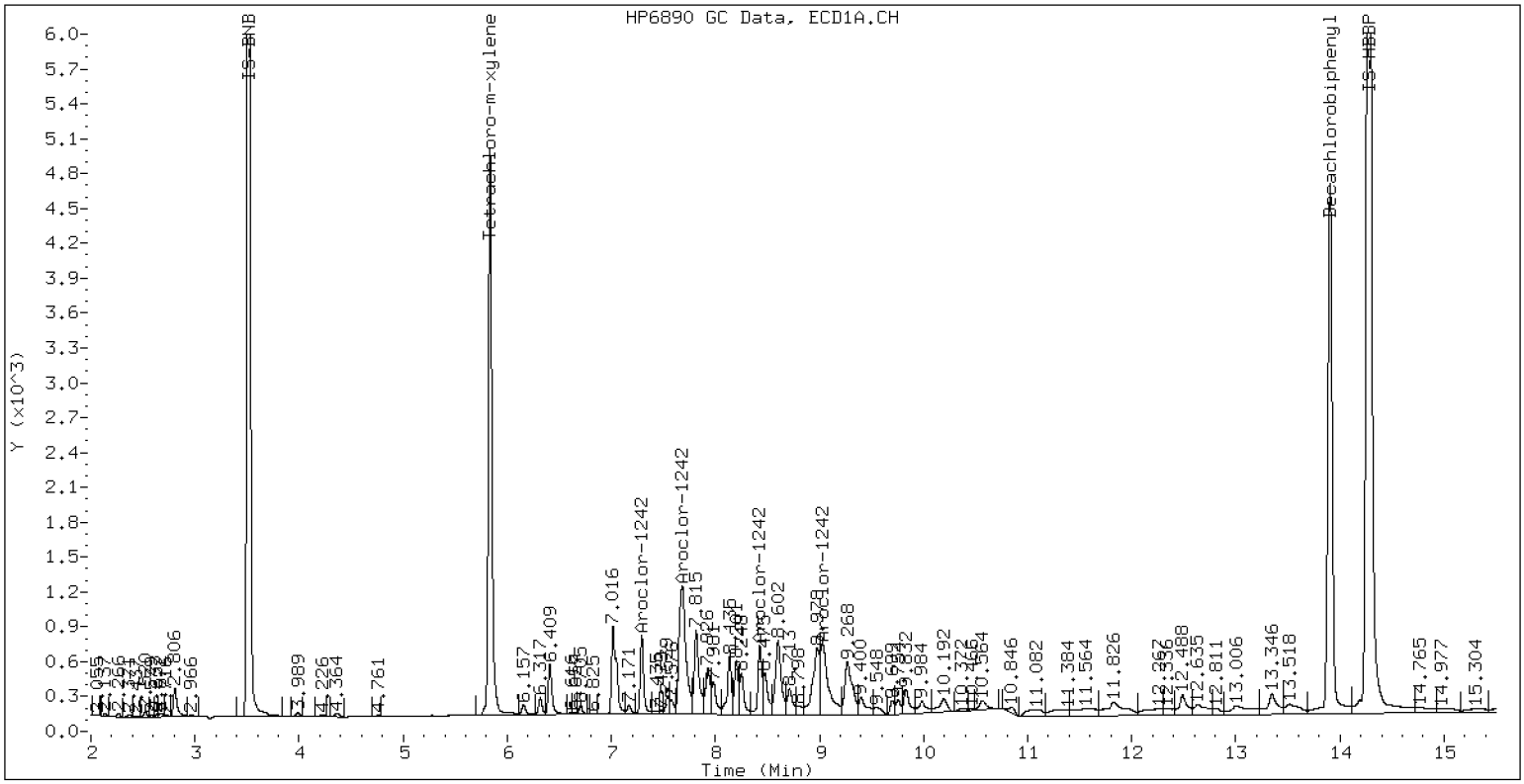
Total PCB Area Col2 (5.936 - 13.808) = 392251 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

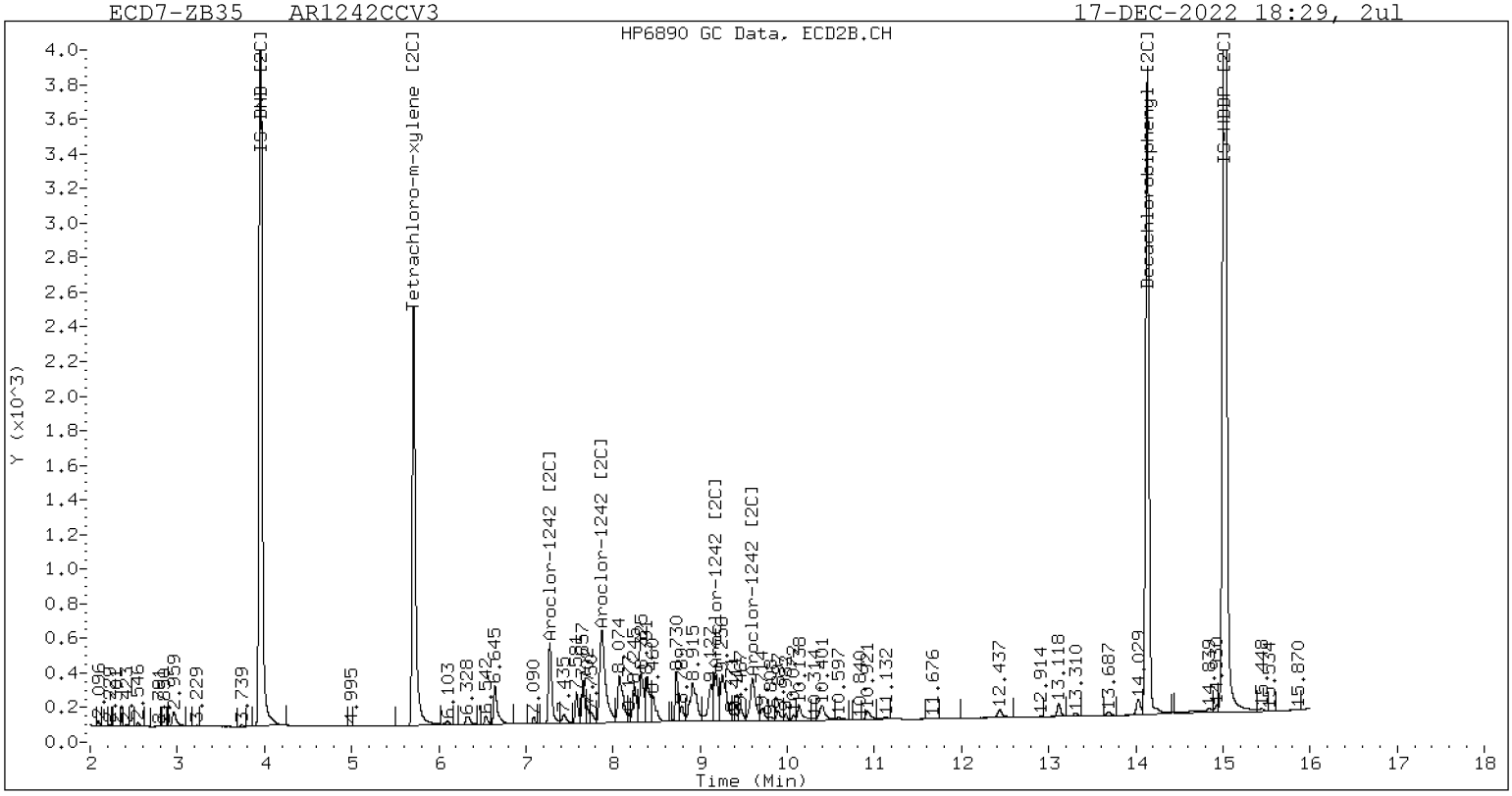
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV3 17-DEC-2022 18:29, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242CCV3 17-DEC-2022 18:29, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12172228ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0280	Injection Date:	12/17/22
Lab Sample ID:	SKL0280-CCV4	Injection Time:	18:50
Sequence Name:	AR1660CCV4		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	283	0.0441939	0.0491277		13.3	+/-20
Aroclor-1016 (1)	A	250.00	274	0.0266860	0.0292443		9.6	
Aroclor-1016 (2)	A	250.00	268	0.0861572	0.0922498		7.2	
Aroclor-1016 (3)	A	250.00	286	0.0390425	0.0446718		14.4	
Aroclor-1016 (4)	A	250.00	305	0.0248899	0.0303449		22.0	
Aroclor 1016 [2C]	A	250.00	240	0.0467310	0.0443280		-3.9	+/-20
Aroclor-1016 (1) [2C]	A	250.00	244	0.0409030	0.0399732		-2.4	
Aroclor-1016 (2) [2C]	A	250.00	232	0.0882154	0.0817522		-7.2	
Aroclor-1016 (3) [2C]	A	250.00	234	0.0378846	0.0355467		-6.4	
Aroclor-1016 (4) [2C]	A	250.00	251	0.0199212	0.0200398		0.4	
Aroclor 1260	A	250.00	299	0.0390342	0.0464859		19.5	+/-20
Aroclor-1260 (1)	A	250.00	301	0.0291201	0.0350211		20.4	
Aroclor-1260 (2)	A	250.00	304	0.0301181	0.0366365		21.6	
Aroclor-1260 (3)	A	250.00	302	0.0791351	0.0955913		20.8	
Aroclor-1260 (4)	A	250.00	277	0.0403003	0.0447259		10.8	
Aroclor-1260 (5)	A	250.00	310	0.0164974	0.0204547		24.0	
Aroclor 1260 [2C]	A	250.00	217	0.0617619	0.0530776		-13.2	+/-20
Aroclor-1260 (1) [2C]	A	250.00	212	0.0422283	0.0359094		-15.2	
Aroclor-1260 (2) [2C]	A	250.00	210	0.1059643	0.0888759		-16.0	
Aroclor-1260 (3) [2C]	A	250.00	226	0.0282173	0.0254742		-9.6	
Aroclor-1260 (4) [2C]	A	250.00	220	0.0706376	0.0620508		-12.0	
Decachlorobiphenyl	A	40.000	44.7	0.7333327	0.8203660		11.8	+/-20
Tetrachlorometaxylene	A	40.000	40.9	1.1336710	1.1602140		2.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.2	1.1358180	1.0842320		-4.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	39.2	1.0966080	1.0756620		-2.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172228ECD7.D
Data file 2: /221217.b/221217.b/12172228ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV4
Client ID:
Injection Date: 17-DEC-2022 18:50
Report Date: 12/20/2022 15:08
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.835	-0.001	212521	5.712	0.001	116370	40.9	39.2	4.2	Tetrachloro-m-xylene
13.905	-0.003	275451	14.133	-0.001	189282	44.7	38.2	15.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	366348	-18.2
Hexabromobiphenyl	798898	671532	-15.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	216369	-13.1
Hexabromobiphenyl	362541	349154	-3.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	7.292	-0.003	33480	274.0	1	7.275	0.001	27028	244.3
Aroclor-1016	2	7.681	-0.004	105611	267.7	2	7.874	0.002	55277	231.7
Aroclor-1016	3	7.814	-0.003	51142	286.0	3	8.073	0.001	24035	234.6
Aroclor-1016	4	8.427	-0.003	34740	304.8	4	8.244	0.001	13550	251.5
Total Col1Ave (4 peaks):					283.1	Total Col2Ave (4 peaks):				240.5 RPD = 16
Corrected Ave (3 peaks):					275.9	Corrected Ave (3 peaks):				236.9 RPD = 15
CalAmt %D:					13.2	CalAmt %D:				-3.8
Aroclor-1260	1	11.060	-0.002	73493	300.7	1	11.667	0.000	39181	212.6
Aroclor-1260	2	11.376	-0.001	76883	304.1	2	11.930	-0.000	96973	209.7
Aroclor-1260	3	11.750	-0.002	200602	302.0	3	12.449	0.000	27795	225.7
Aroclor-1260	4	12.154	-0.005	93859	277.5	4	12.514	0.001	67704	219.6
Aroclor-1260	5	12.259	-0.002	42925	310.0	NS	---			----
Total Col1Ave (5 peaks):					298.8	Total Col2Ave (4 peaks):				216.9 RPD = 32
Corrected Ave (4 peaks):					296.1	Corrected Ave (3 peaks):				214.0 RPD = 32
CalAmt %D:					19.5	CalAmt %D:				-13.2

Total PCB Area Col1 (5.936 - 13.808) = 2188261 Col1 Total PCB = 0.5 ppm*

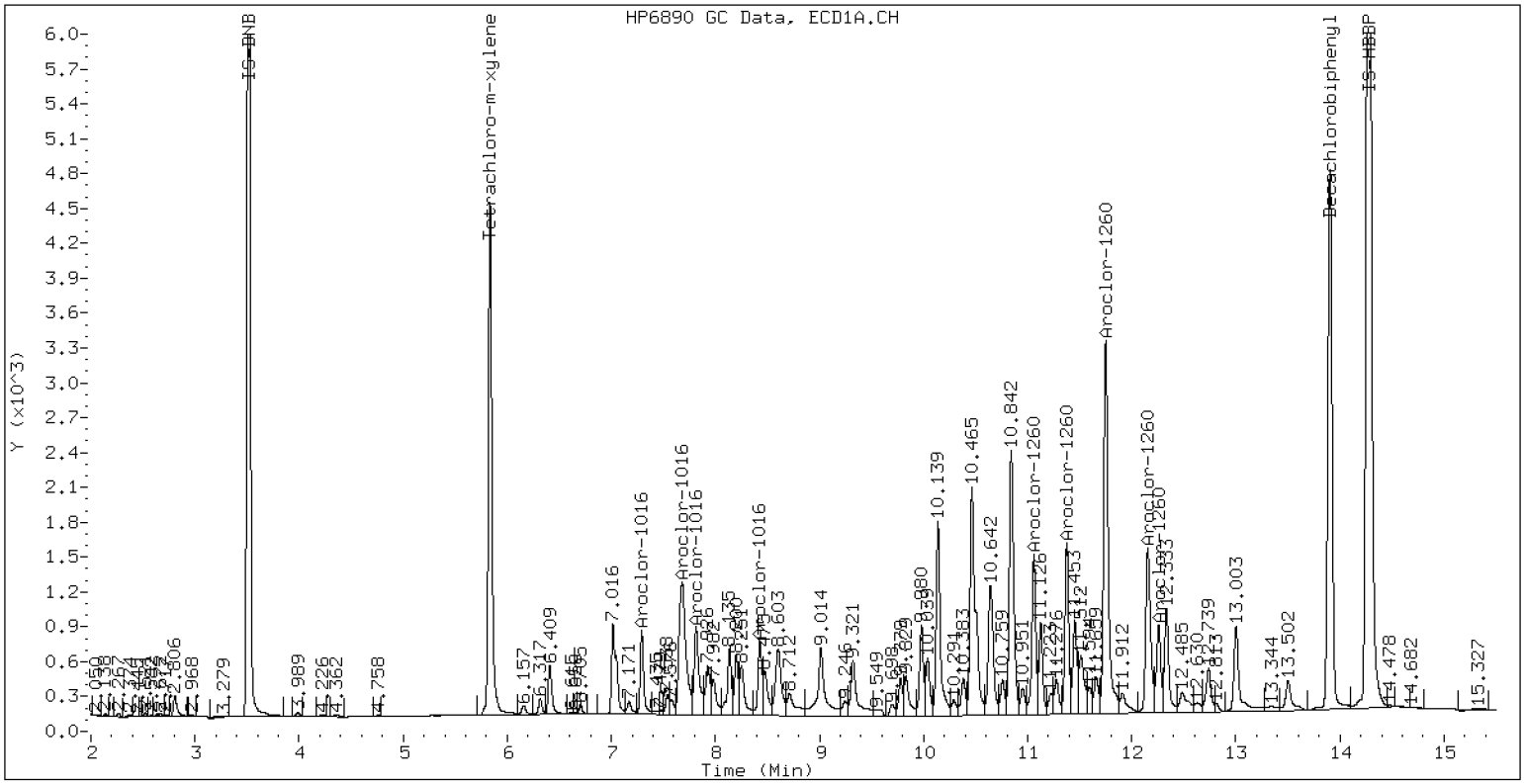
Total PCB Area Col2 (5.936 - 13.808) = 984749 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

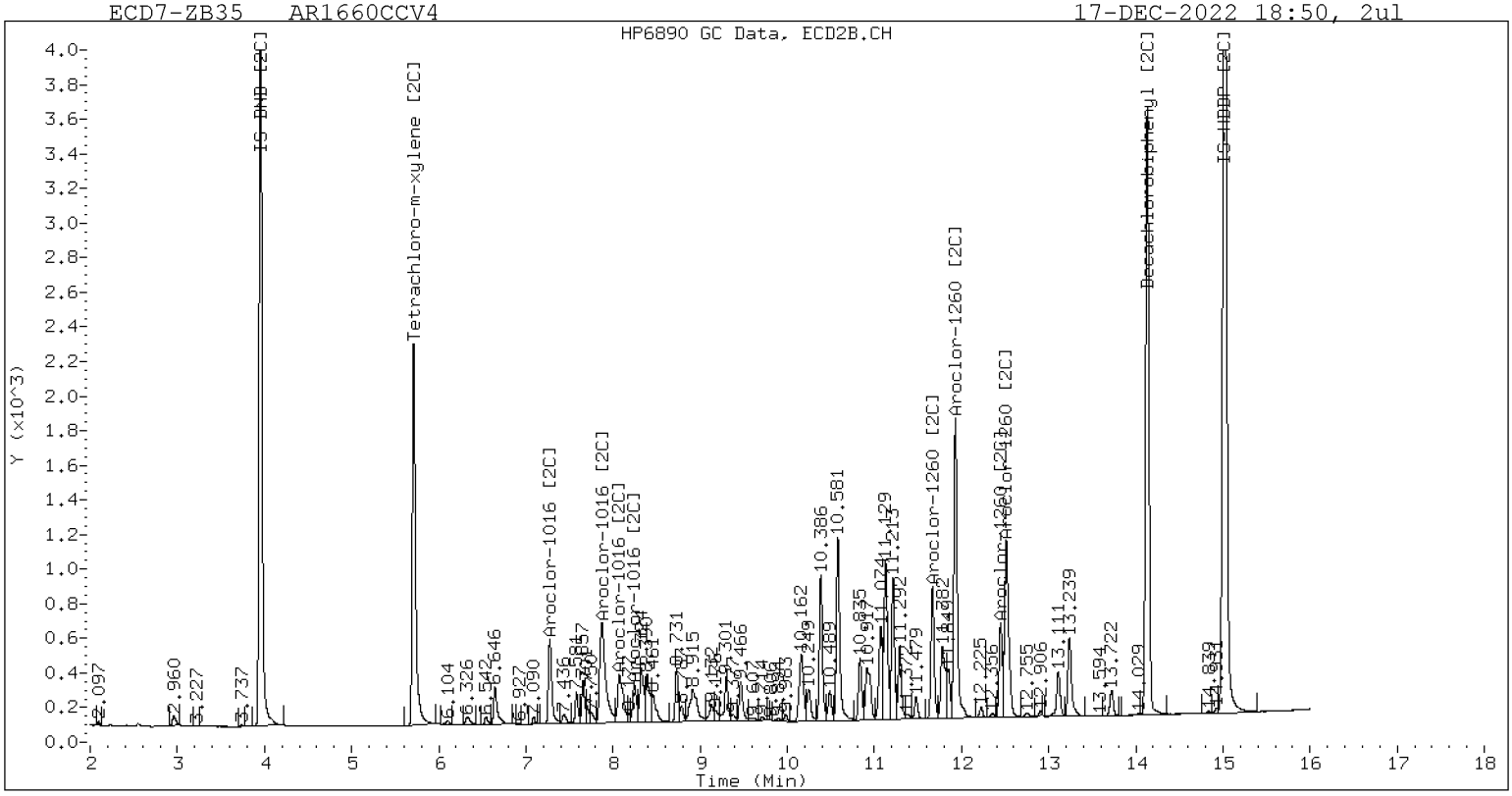
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV4 17-DEC-2022 18:50, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV4 17-DEC-2022 18:50, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12172237ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0280	Injection Date:	12/17/22
Lab Sample ID:	SKL0280-CCV5	Injection Time:	22:01
Sequence Name:	AR1254CCV5		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1254	A	250.00	259	0.0576965	0.0609948		3.8	+/-20
Aroclor-1254 (1)	A	250.00	268		0.0755710			
Aroclor-1254 (2)	A	250.00	276		0.0302327			
Aroclor-1254 (3)	A	250.00	178		0.0317040			
Aroclor-1254 (4)	A	250.00	280		0.0972457			
Aroclor-1254 (5)	A	250.00	295		0.0702207			
Aroclor 1254 [2C]	A	250.00	245	0.0638047	0.0630650		-2.2	+/-20
Aroclor-1254 (1) [2C]	A	250.00	252		0.0519676			
Aroclor-1254 (2) [2C]	A	250.00	197		0.0326846			
Aroclor-1254 (3) [2C]	A	250.00	238		0.0848118			
Aroclor-1254 (4) [2C]	A	250.00	264		0.0974105			
Aroclor-1254 (5) [2C]	A	250.00	272		0.0484506			
Decachlorobiphenyl	A	40.000	40.9	0.7333327	0.7505966		2.3	+/-20
Tetrachlorometaxylene	A	40.000	36.7	1.1336710	1.0390660		-8.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.1	1.1358180	1.0830860		-4.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.3	1.0966080	0.9957673		-9.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172237ECD7.D
Data file 2: /221217.b/221217.b/12172237ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254CCV5
Client ID:
Injection Date: 17-DEC-2022 22:01
Report Date: 12/20/2022 15:08
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	0.000	223167	5.713	0.002	124803	36.7	36.3	0.9	Tetrachloro-m-xylene
13.907	-0.001	338614	14.134	0.000	229500	40.9	38.1	7.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	429553	-4.0
Hexabromobiphenyl	798898	902253	12.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	250667	0.6
Hexabromobiphenyl	362541	423789	16.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.319	-0.002	101443	268.2	1	9.466	0.002	40708	251.9
Aroclor-1254	2	9.399	-0.003	40583	275.9	2	9.983	0.002	25603	197.0
Aroclor-1254	3	9.693	-0.001	42558	178.2	3	10.137	0.003	66436	237.9
Aroclor-1254	4	9.827	-0.003	130538	280.3	4	10.384	0.002	76305	263.8
Aroclor-1254	5	10.185	-0.004	94261	295.3	5	10.581	0.002	37953	272.0

Total Col1Ave (5 peaks): 259.6 Total Col2Ave (5 peaks): 244.5 RPD = 6

Corrected Ave (4 peaks): 250.7 Corrected Ave (4 peaks): 237.6 RPD = 5

CalAmt %D: 3.8 CalAmt %D: -2.2

Total PCB Area Col1 (5.936 - 13.808) = 1363315 Col1 Total PCB = 0.3 ppm*

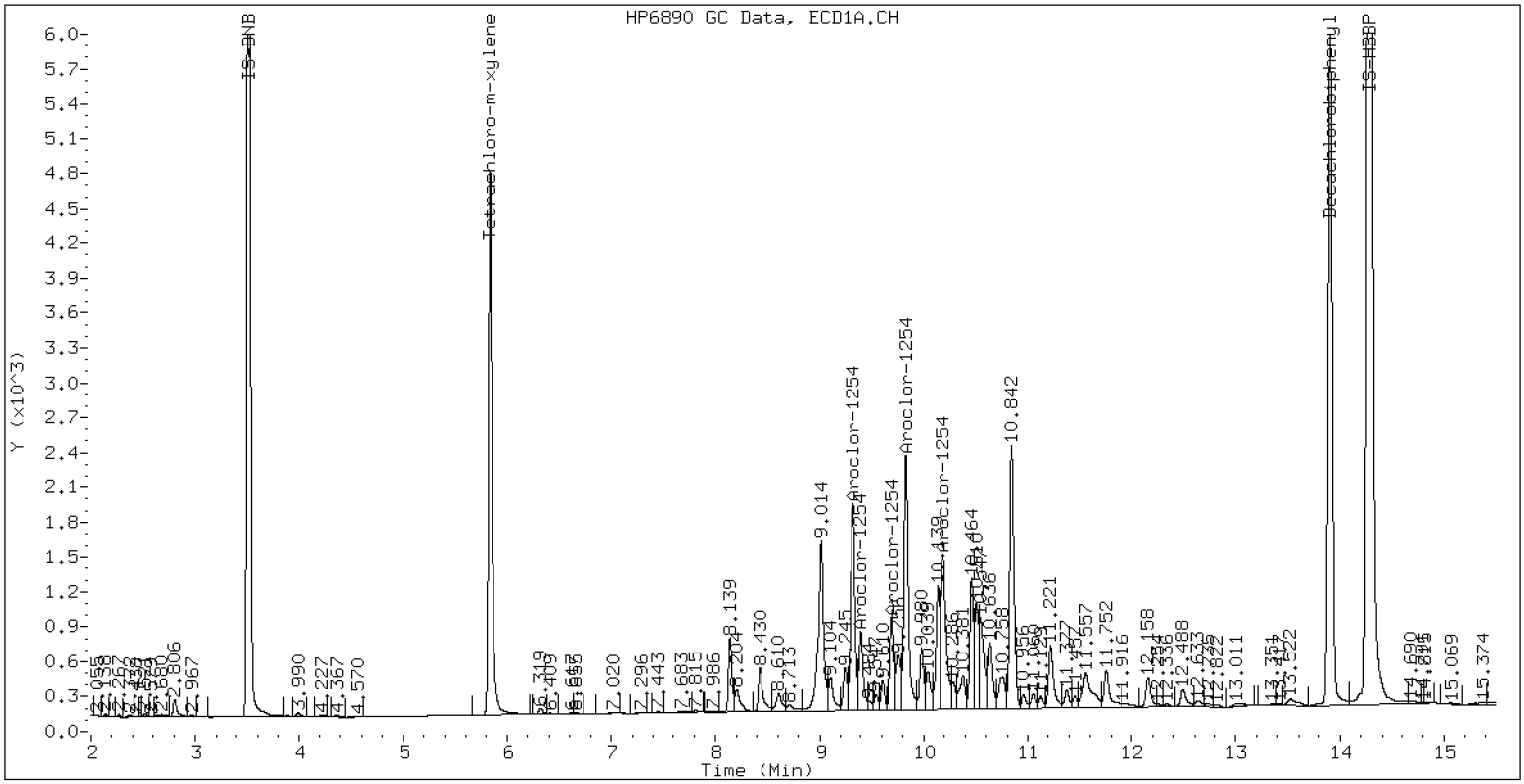
Total PCB Area Col2 (5.936 - 13.808) = 700189 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

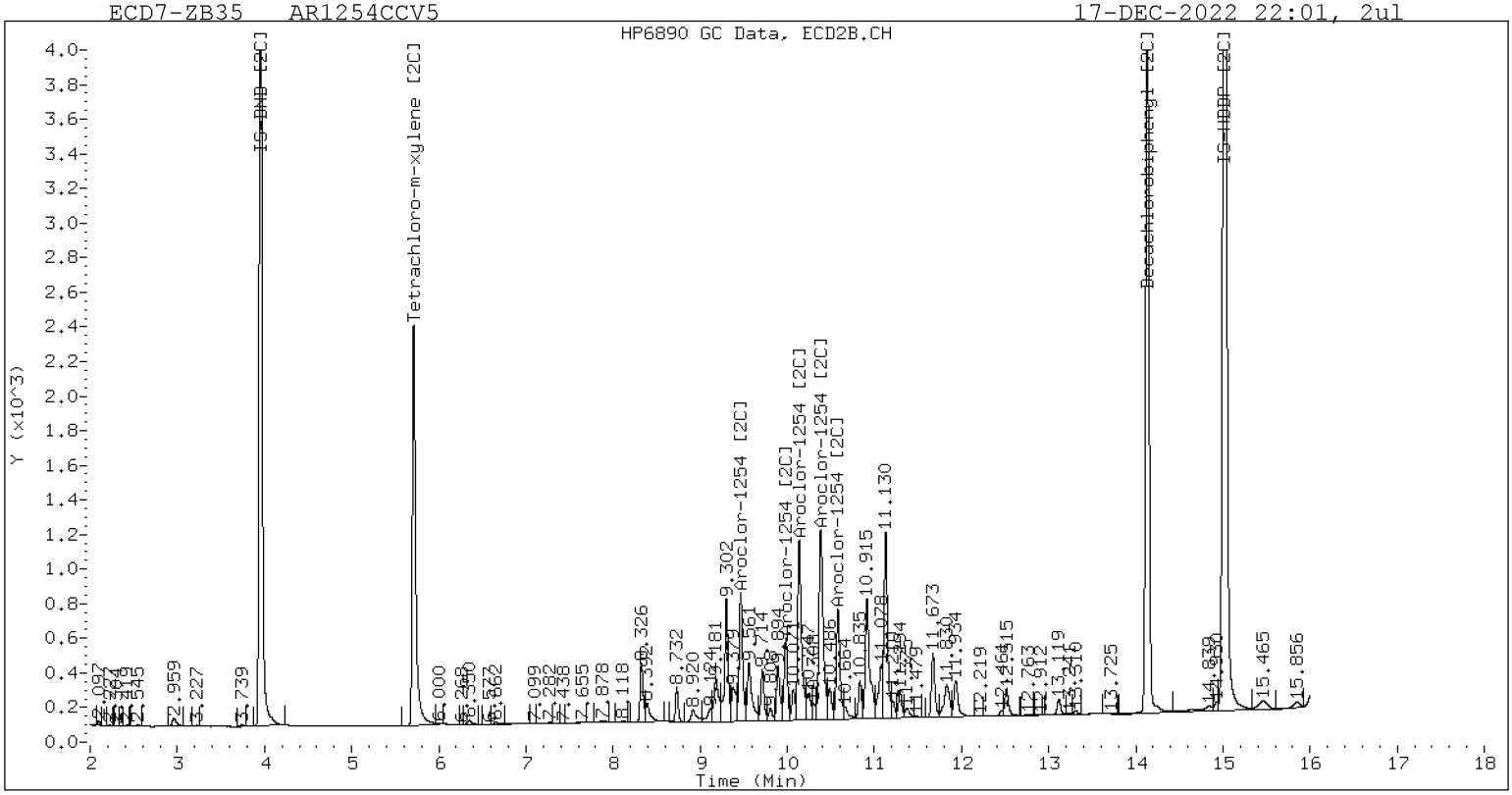
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254CCV5 17-DEC-2022 22:01, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254CCV5 17-DEC-2022 22:01, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12172238ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0280	Injection Date:	12/17/22
Lab Sample ID:	SKL0280-CCV6	Injection Time:	22:22
Sequence Name:	AR1660CCV6		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	279	0.0441939	0.0485790		11.5	+/-20
Aroclor-1016 (1)	A	250.00	272	0.0266860	0.0290200		8.8	
Aroclor-1016 (2)	A	250.00	265	0.0861572	0.0914266		6.0	
Aroclor-1016 (3)	A	250.00	286	0.0390425	0.0447486		14.4	
Aroclor-1016 (4)	A	250.00	292	0.0248899	0.0291207		16.8	
Aroclor 1016 [2C]	A	250.00	241	0.0467310	0.0444793		-3.6	+/-20
Aroclor-1016 (1) [2C]	A	250.00	245	0.0409030	0.0401480		-2.0	
Aroclor-1016 (2) [2C]	A	250.00	233	0.0882154	0.0821400		-6.8	
Aroclor-1016 (3) [2C]	A	250.00	235	0.0378846	0.0356529		-6.0	
Aroclor-1016 (4) [2C]	A	250.00	251	0.0199212	0.0199765		0.4	
Aroclor 1260	A	250.00	249	0.0390342	0.0389341		-0.2	+/-20
Aroclor-1260 (1)	A	250.00	250	0.0291201	0.0291165		0.0	
Aroclor-1260 (2)	A	250.00	255	0.0301181	0.0307562		2.0	
Aroclor-1260 (3)	A	250.00	254	0.0791351	0.0804781		1.6	
Aroclor-1260 (4)	A	250.00	232	0.0403003	0.0374380		-7.2	
Aroclor-1260 (5)	A	250.00	256	0.0164974	0.0168816		2.4	
Aroclor 1260 [2C]	A	250.00	205	0.0617619	0.0502257		-17.9	+/-20
Aroclor-1260 (1) [2C]	A	250.00	199	0.0422283	0.0336873		-20.4	
Aroclor-1260 (2) [2C]	A	250.00	197	0.1059643	0.0836544		-21.2	
Aroclor-1260 (3) [2C]	A	250.00	215	0.0282173	0.0242809		-14.0	
Aroclor-1260 (4) [2C]	A	250.00	210	0.0706376	0.0592801		-16.0	
Decachlorobiphenyl	A	40.000	42.5	0.7333327	0.7793703		6.3	+/-20
Tetrachlorometaxylene	A	40.000	40.6	1.1336710	1.1494320		1.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	37.4	1.1358180	1.0622980		-6.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	39.4	1.0966080	1.0801490		-1.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172238ECD7.D
Data file 2: /221217.b/221217.b/12172238ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV6
Client ID:
Injection Date: 17-DEC-2022 22:22
Report Date: 12/20/2022 15:08
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.834	-0.002	213707	5.711	0.001	116958	40.6	39.4	2.9	Tetrachloro-m-xylene
13.905	-0.002	331730	14.134	0.000	203786	42.5	37.4	12.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	371848	-16.9
Hexabromobiphenyl	798898	851277	6.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	216559	-13.1
Hexabromobiphenyl	362541	383670	5.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.291	-0.003	33722	271.9	1	7.276	0.001	27170	245.4
Aroclor-1016	2	7.680	-0.004	106240	265.3	2	7.874	0.002	55588	232.8
Aroclor-1016	3	7.816	-0.002	51999	286.5	3	8.074	0.002	24128	235.3
Aroclor-1016	4	8.427	-0.003	33839	292.5	4	8.245	0.002	13519	250.7
Total Col1Ave (4 peaks):					279.0	Total Col2Ave (4 peaks):				241.0 RPD = 15
Corrected Ave (3 peaks):					274.6	Corrected Ave (3 peaks):				237.8 RPD = 14
CalAmt %D:					11.6	CalAmt %D:				-3.6
Aroclor-1260	1	11.060	-0.002	77457	250.0	1	11.668	0.001	40390	199.4
Aroclor-1260	2	11.377	-0.001	81819	255.3	2	11.931	0.001	100299	197.4
Aroclor-1260	3	11.750	-0.002	214091	254.2	3	12.450	0.001	29112	215.1
Aroclor-1260	4	12.156	-0.003	99594	232.2	4	12.515	0.002	71075	209.8
Aroclor-1260	5	12.259	-0.003	44909	255.8	NS	---			----
Total Col1Ave (5 peaks):					249.5	Total Col2Ave (4 peaks):				205.4 RPD = 19
Corrected Ave (4 peaks):					247.9	Corrected Ave (3 peaks):				202.2 RPD = 20
CalAmt %D:					-0.2	CalAmt %D:				-17.8

Total PCB Area Col1 (5.936 - 13.808) = 2274699 Col1 Total PCB = 0.5 ppm*

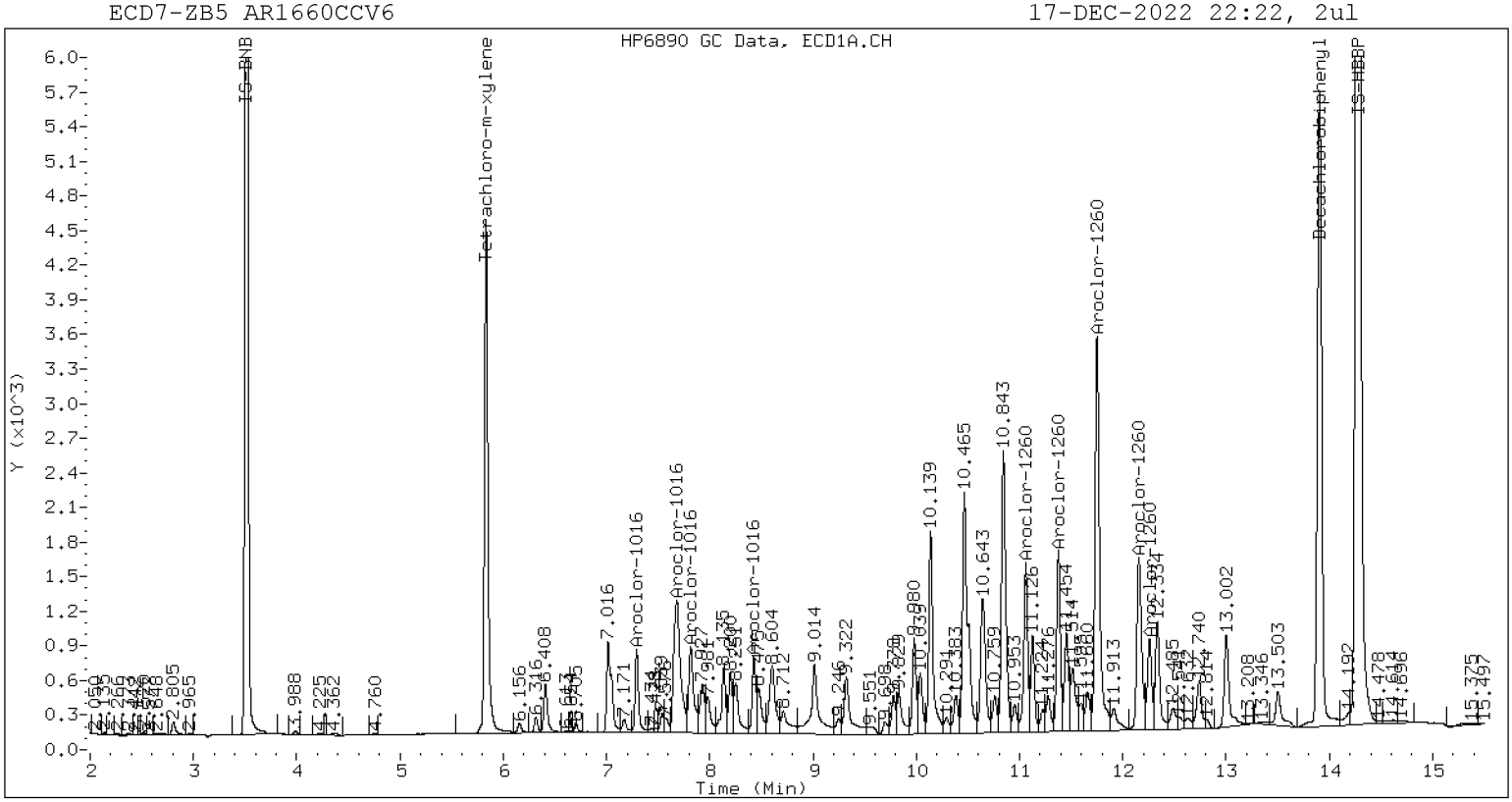
Total PCB Area Col2 (5.936 - 13.808) = 1009951 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

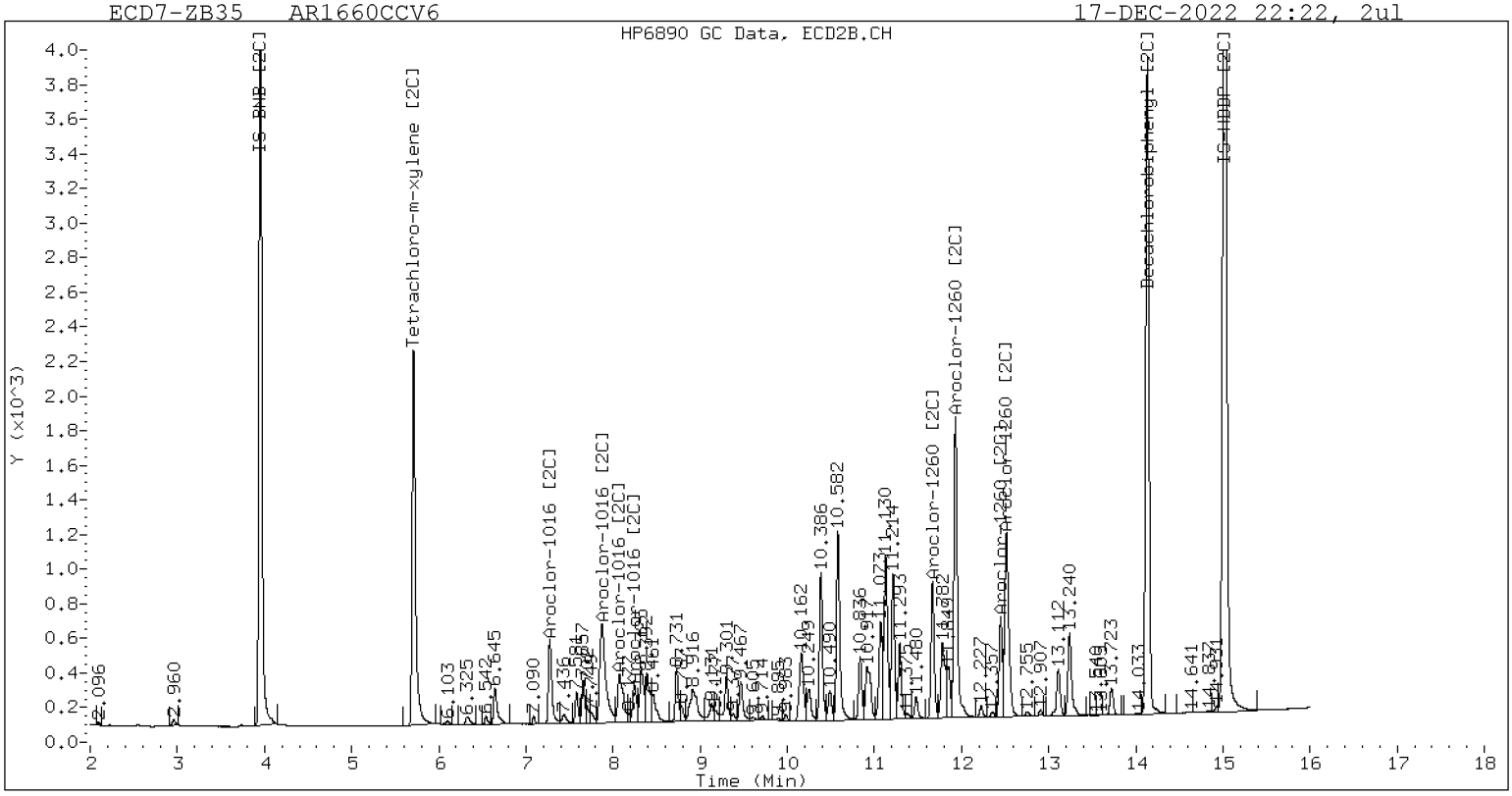
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV6 17-DEC-2022 22:22, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV6 17-DEC-2022 22:22, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12172252ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0280	Injection Date:	12/18/22
Lab Sample ID:	SKL0280-CCV7	Injection Time:	03:20
Sequence Name:	AR1248CCV7		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	241	0.0490062	0.0481549		-3.7	+/-20
Aroclor-1248 (1)	A	250.00	263		0.0361547			
Aroclor-1248 (2)	A	250.00	278		0.0488627			
Aroclor-1248 (3)	A	250.00	263		0.0830110			
Aroclor-1248 (4)	A	250.00	159		0.0245912			
Aroclor 1248 [2C]	A	250.00	235	0.0394876	0.0372155		-5.9	+/-20
Aroclor-1248 (1) [2C]	A	250.00	249		0.0325984			
Aroclor-1248 (2) [2C]	A	250.00	205		0.0281481			
Aroclor-1248 (3) [2C]	A	250.00	254		0.0424289			
Aroclor-1248 (4) [2C]	A	250.00	233		0.0456865			
Decachlorobiphenyl	A	40.000	43.3	0.7333327	0.7940714		8.3	+/-20
Tetrachlorometaxylene	A	40.000	37.3	1.1336710	1.0585410		-6.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	39.8	1.1358180	1.1303120		-0.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.1	1.0966080	1.0163000		-7.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172252ECD7.D
Data file 2: /221217.b/221217.b/12172252ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCV7
Client ID:
Injection Date: 18-DEC-2022 03:20
Report Date: 12/20/2022 15:09
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.835	-0.001	233658	5.711	0.001	132926	37.3	37.1	0.7	Tetrachloro-m-xylene
13.905	-0.003	225768	14.133	-0.001	183409	43.3	39.8	8.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	441472	-1.4
Hexabromobiphenyl	798898	568634	-28.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	261588	5.0
Hexabromobiphenyl	362541	324528	-10.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1248	1	8.426	-0.002	49879	262.8	1	8.325	0.000	26648	249.4
Aroclor-1248	2	8.601	-0.003	67411	278.2	2	8.730	0.000	23010	204.7
Aroclor-1248	3	9.020	-0.002	114522	262.7	3	9.175	0.000	34684	253.7
Aroclor-1248	4	9.311	-0.000	33926	158.8	4	9.598	0.000	37347	232.7
Total Col1Ave (4 peaks):					240.6	Total Col2Ave (4 peaks):				235.1 RPD = 2
Corrected Ave (3 peaks):					228.1	Corrected Ave (3 peaks):				228.9 RPD = 0
CalAmt %D:					-3.8	CalAmt %D:				-6.0

Total PCB Area Col1 (5.936 - 13.808) = 1040946 Col1 Total PCB = 0.2 ppm*

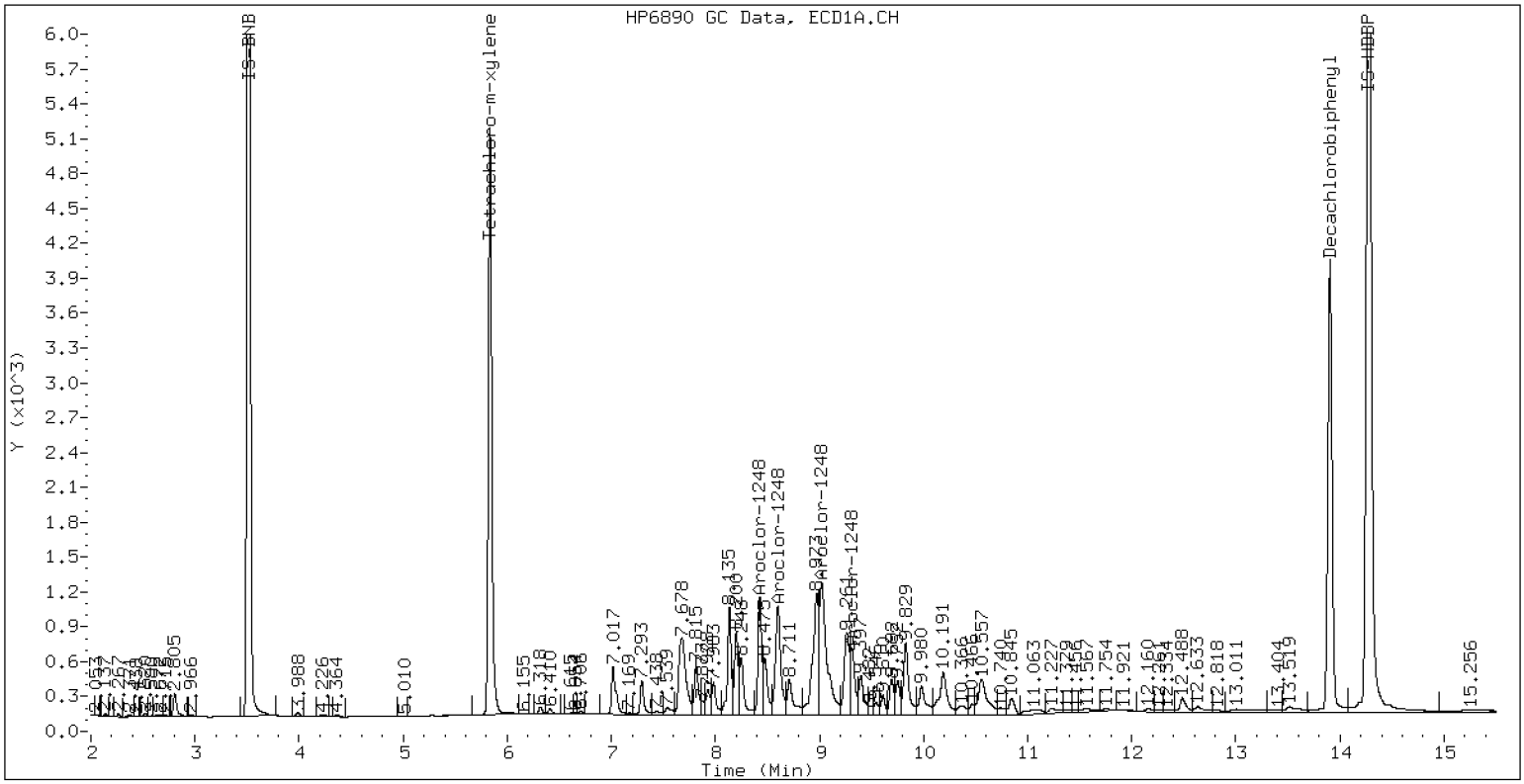
Total PCB Area Col2 (5.936 - 13.808) = 498717 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

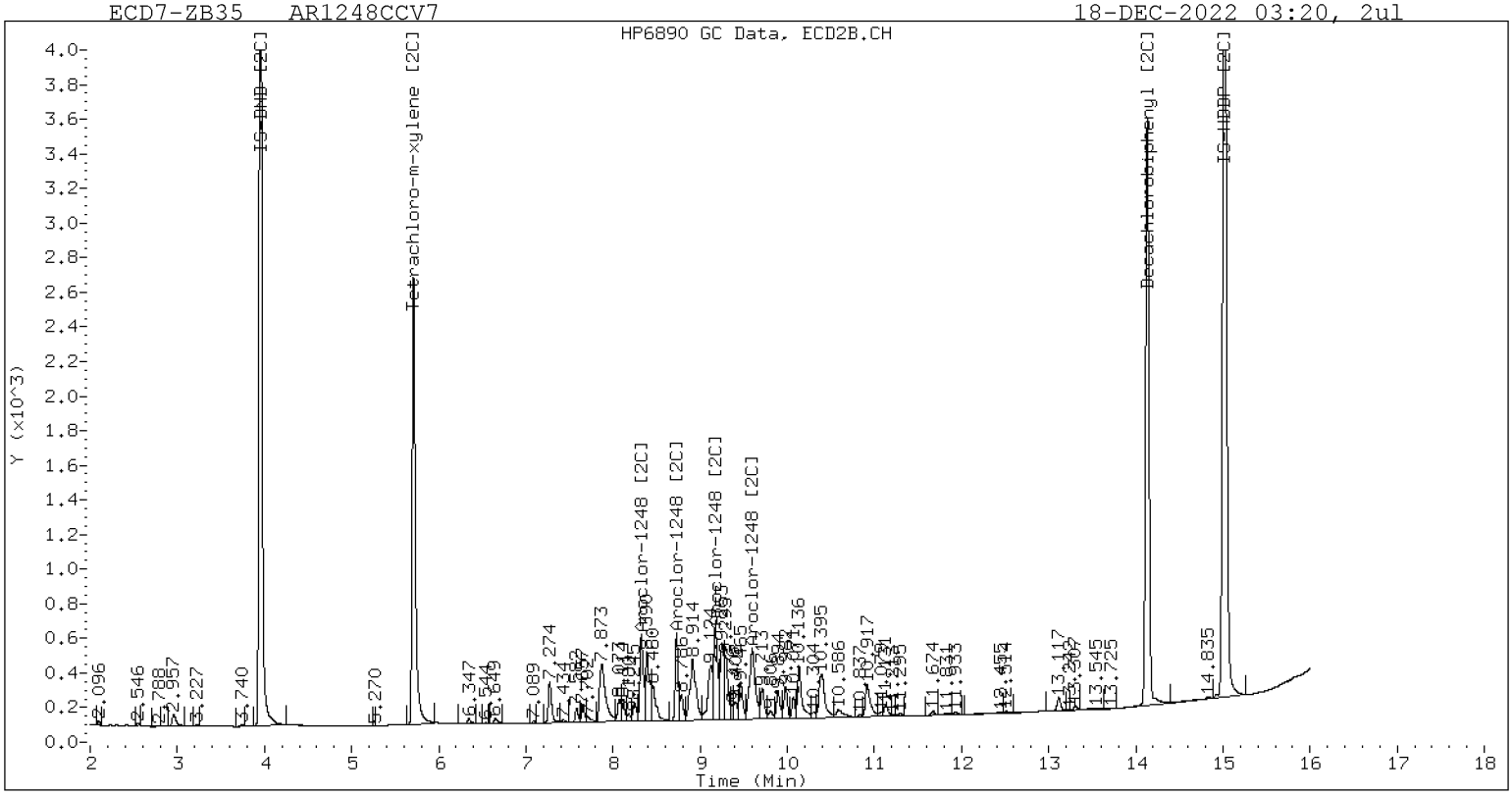
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV7 18-DEC-2022 03:20, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248CCV7 18-DEC-2022 03:20, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12172253ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0280	Injection Date:	12/18/22
Lab Sample ID:	SKL0280-CCV8	Injection Time:	03:41
Sequence Name:	AR1660CCV8		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Aroclor 1016	A	250.00	293	0.0441939	0.0508705		17.2	+/-20	
Aroclor-1016 (1)	A	250.00	297	0.0266860	0.0316857		18.8		
Aroclor-1016 (2)	A	250.00	277	0.0861572	0.0956265		10.8		
Aroclor-1016 (3)	A	250.00	294	0.0390425	0.0459226		17.6		
Aroclor-1016 (4)	A	250.00	304	0.0248899	0.0302473		21.6		
Aroclor 1016 [2C]	A	250.00	243	0.0467310	0.0446274		-2.7	+/-20	
Aroclor-1016 (1) [2C]	A	250.00	249	0.0409030	0.0407891		-0.4		
Aroclor-1016 (2) [2C]	A	250.00	232	0.0882154	0.0817161		-7.2		
Aroclor-1016 (3) [2C]	A	250.00	234	0.0378846	0.0354306		-6.4		
Aroclor-1016 (4) [2C]	A	250.00	258	0.0199212	0.0205737		3.2		
Aroclor 1260	A	250.00	322	0.0390342	0.0500154		28.6	+/-20	*
Aroclor-1260 (1)	A	250.00	327	0.0291201	0.0380842		30.8		
Aroclor-1260 (2)	A	250.00	329	0.0301181	0.0396188		31.6		
Aroclor-1260 (3)	A	250.00	323	0.0791351	0.1023584		29.2		
Aroclor-1260 (4)	A	250.00	300	0.0403003	0.0483100		20.0		
Aroclor-1260 (5)	A	250.00	329	0.0164974	0.0217057		31.6		
Aroclor 1260 [2C]	A	250.00	237	0.0617619	0.0576139		-5.3	+/-20	
Aroclor-1260 (1) [2C]	A	250.00	236	0.0422283	0.0398084		-5.6		
Aroclor-1260 (2) [2C]	A	250.00	227	0.1059643	0.0961333		-9.2		
Aroclor-1260 (3) [2C]	A	250.00	248	0.0282173	0.0279376		-0.8		
Aroclor-1260 (4) [2C]	A	250.00	236	0.0706376	0.0665763		-5.6		
Decachlorobiphenyl	A	40.000	45.0	0.7333327	0.8245397		12.5	+/-20	
Tetrachlorometaxylene	A	40.000	42.2	1.1336710	1.1954880		5.5	+/-20	
Decachlorobiphenyl [2C]	A	40.000	40.3	1.1358180	1.1451770		0.8	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	39.9	1.0966080	1.0933540		-0.3	+/-20	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172253ECD7.D
Data file 2: /221217.b/221217.b/12172253ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV8
Client ID:
Injection Date: 18-DEC-2022 03:41
Report Date: 12/20/2022 15:09
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.835	-0.001	221011	5.712	0.002	120597	42.2	39.9	5.6	Tetrachloro-m-xylene
13.905	-0.003	247331	14.132	-0.001	181703	45.0	40.3	10.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	369742	-17.4
Hexabromobiphenyl	798898	599925	-24.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	220600	-11.4
Hexabromobiphenyl	362541	317336	-12.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.292	-0.003	36611	296.8	1	7.275	0.000	28119	249.3
Aroclor-1016	2	7.679	-0.006	110491	277.5	2	7.873	-0.000	56333	231.6
Aroclor-1016	3	7.813	-0.004	53061	294.1	3	8.073	0.001	24425	233.8
Aroclor-1016	4	8.426	-0.003	34949	303.8	4	8.244	0.001	14183	258.2
Total Col1Ave (4 peaks):					293.0	Total Col2Ave (4 peaks):				243.2 RPD = 19
Corrected Ave (3 peaks):					289.5	Corrected Ave (3 peaks):				238.2 RPD = 19
CalAmt %D:					17.2	CalAmt %D:				-2.7
Aroclor-1260	1	11.059	-0.003	71399	327.0	1	11.667	-0.000	39477	235.7
Aroclor-1260	2	11.375	-0.002	74276	328.9	2	11.929	-0.001	95333	226.8
Aroclor-1260	3	11.749	-0.003	191898	323.4	3	12.449	-0.000	27705	247.5
Aroclor-1260	4	12.153	-0.005	90570	299.7	4	12.514	0.001	66022	235.6
Aroclor-1260	5	12.258	-0.003	40693	328.9	NS	---			----
Total Col1Ave (5 peaks):					321.6	Total Col2Ave (4 peaks):				236.4 RPD = 31
Corrected Ave (4 peaks):					319.7	Corrected Ave (3 peaks):				232.7 RPD = 32
CalAmt %D:					28.6	CalAmt %D:				-5.4

Total PCB Area Col1 (5.936 - 13.808) = 2169464 Col1 Total PCB = 0.5 ppm*

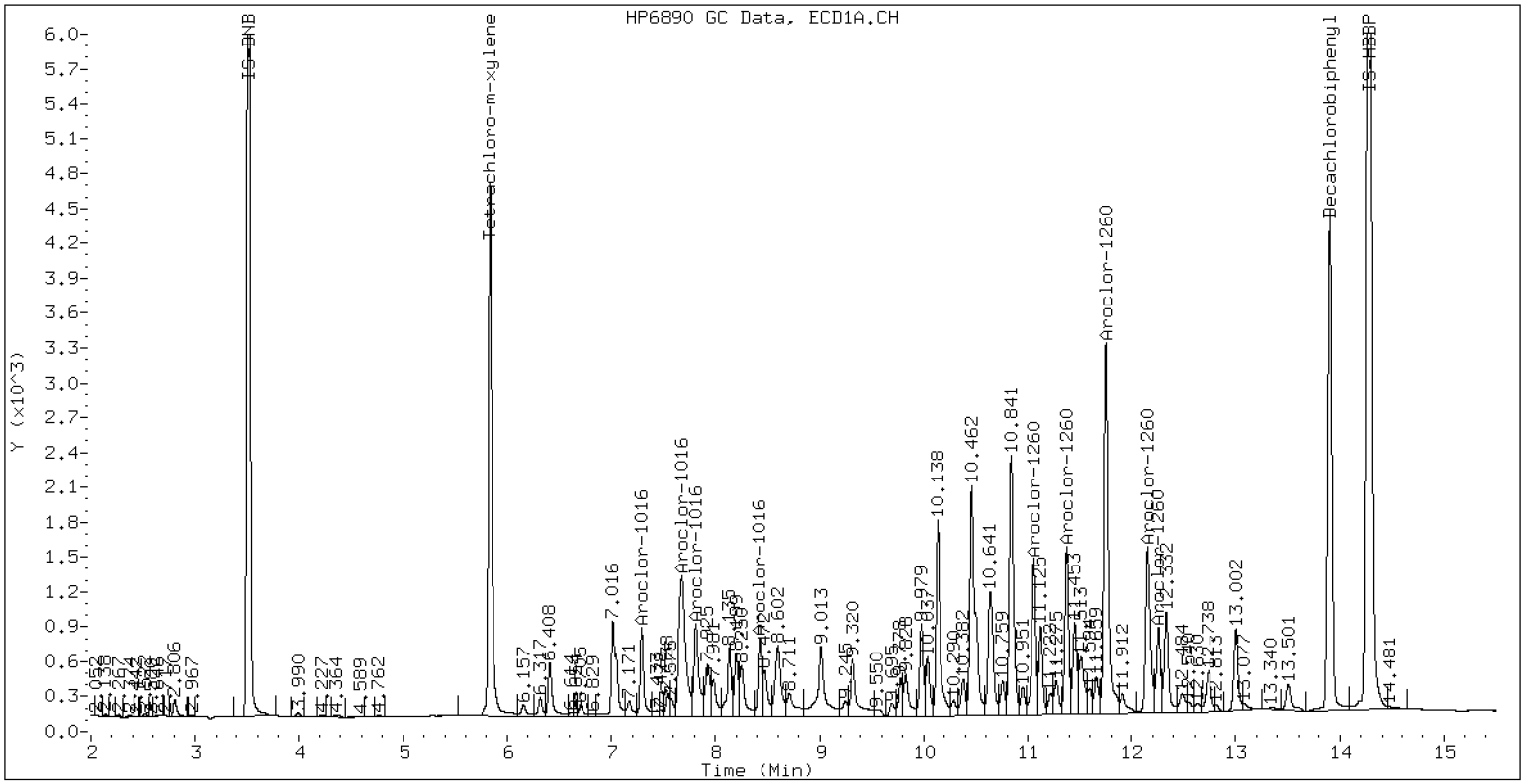
Total PCB Area Col2 (5.936 - 13.808) = 996999 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

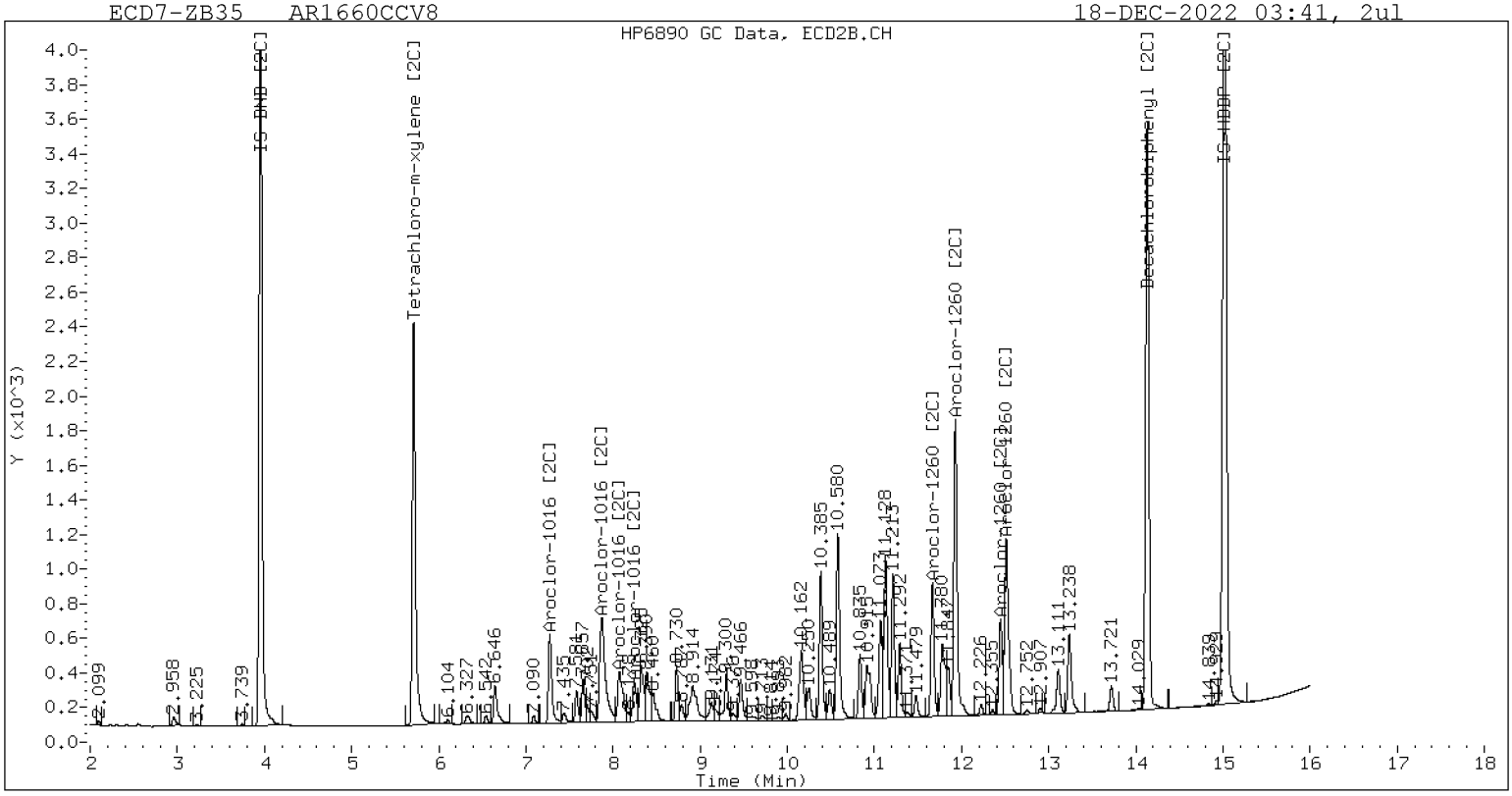
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV8 18-DEC-2022 03:41, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV8 18-DEC-2022 03:41, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12172264ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0280	Injection Date:	12/18/22
Lab Sample ID:	SKL0280-CCV9	Injection Time:	07:35
Sequence Name:	AR1242CCV9		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	281	0.0396000	0.0441469		12.2	+/-20
Aroclor-1242 (1)	A	250.00	260		0.0236025			
Aroclor-1242 (2)	A	250.00	270		0.0776419			
Aroclor-1242 (3)	A	250.00	297		0.0245779			
Aroclor-1242 (4)	A	250.00	295		0.0507653			
Aroclor 1242 [2C]	A	250.00	253	0.0391981	0.0380867		1.3	+/-20
Aroclor-1242 (1) [2C]	A	250.00	249		0.0336731			
Aroclor-1242 (2) [2C]	A	250.00	221		0.0634525			
Aroclor-1242 (3) [2C]	A	250.00	282		0.0261181			
Aroclor-1242 (4) [2C]	A	250.00	261		0.0291029			
Decachlorobiphenyl	A	40.000	44.4	0.7333327	0.8140956		11.0	+/-20
Tetrachlorometaxylene	A	40.000	37.6	1.1336710	1.0646340		-6.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.4	1.1358180	1.1482680		1.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.0	1.0966080	1.0157000		-7.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172264ECD7.D
Data file 2: /221217.b/221217.b/12172264ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242CCV9
Client ID:
Injection Date: 18-DEC-2022 07:35
Report Date: 12/20/2022 15:09
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.835	-0.002	234014	5.712	0.002	132850	37.6	37.0	1.4	Tetrachloro-m-xylene
13.904	-0.003	284734	14.133	-0.000	204491	44.4	40.4	9.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	439614	-1.8
Hexabromobiphenyl	798898	699510	-12.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	261593	5.0
Hexabromobiphenyl	362541	356173	-1.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1242	1	7.291	-0.003	32425	260.2	1	7.275	0.000	27527	248.6
Aroclor-1242	2	7.678	-0.007	106664	269.6	2	7.873	0.000	51871	220.7
Aroclor-1242	3	8.425	-0.005	33765	296.6	3	9.175	0.000	21351	281.6
Aroclor-1242	4	9.026	-0.005	69741	295.1	4	9.598	0.000	23791	261.1
Total Col1Ave (4 peaks):					280.4	Total Col2Ave (4 peaks):				253.0 RPD = 10
Corrected Ave (3 peaks):					275.0	Corrected Ave (3 peaks):				243.5 RPD = 12
CalAmt %D:					12.2	CalAmt %D:				1.2

Total PCB Area Col1 (5.936 - 13.808) = 894196 Col1 Total PCB = 0.2 ppm*

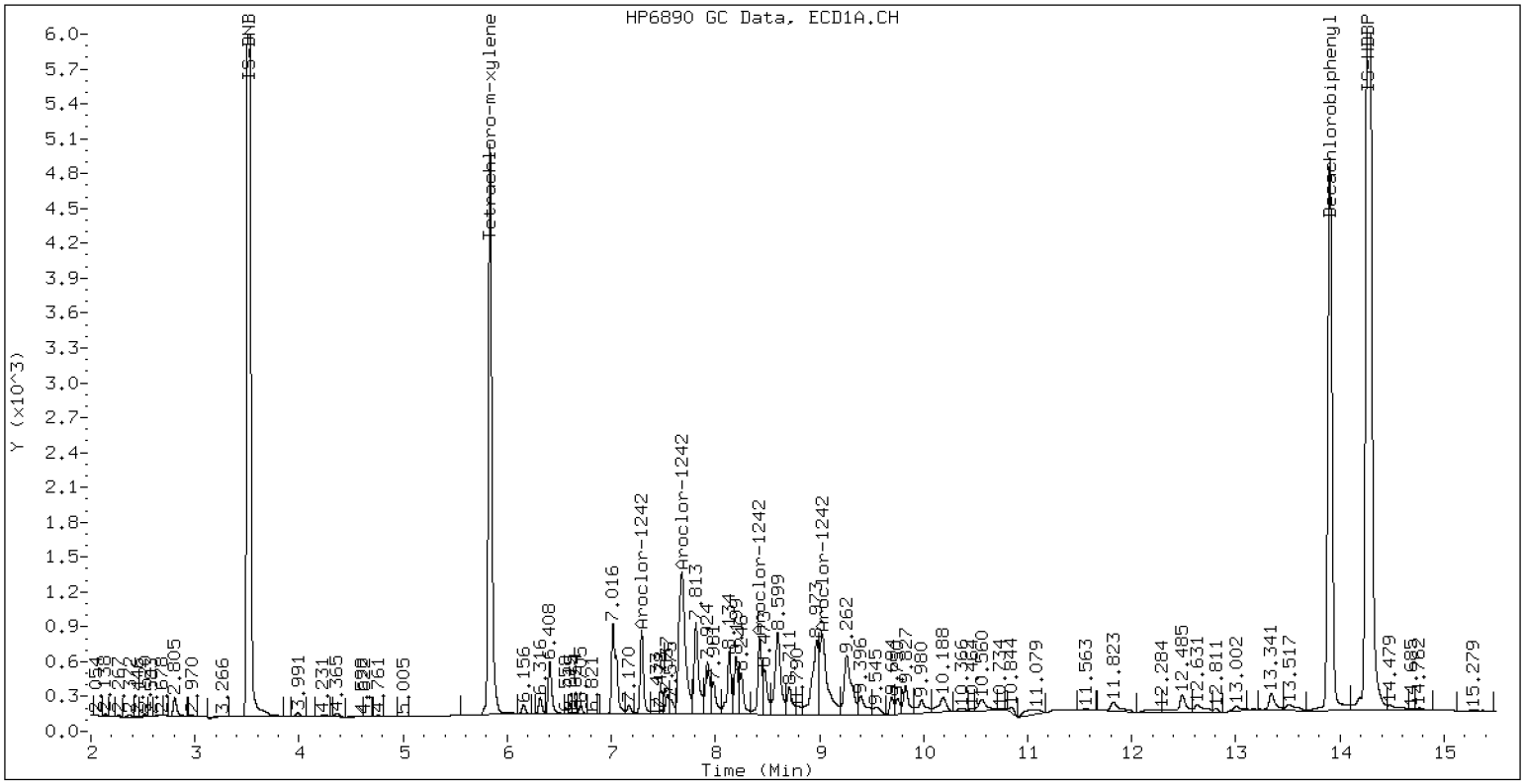
Total PCB Area Col2 (5.936 - 13.808) = 418139 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

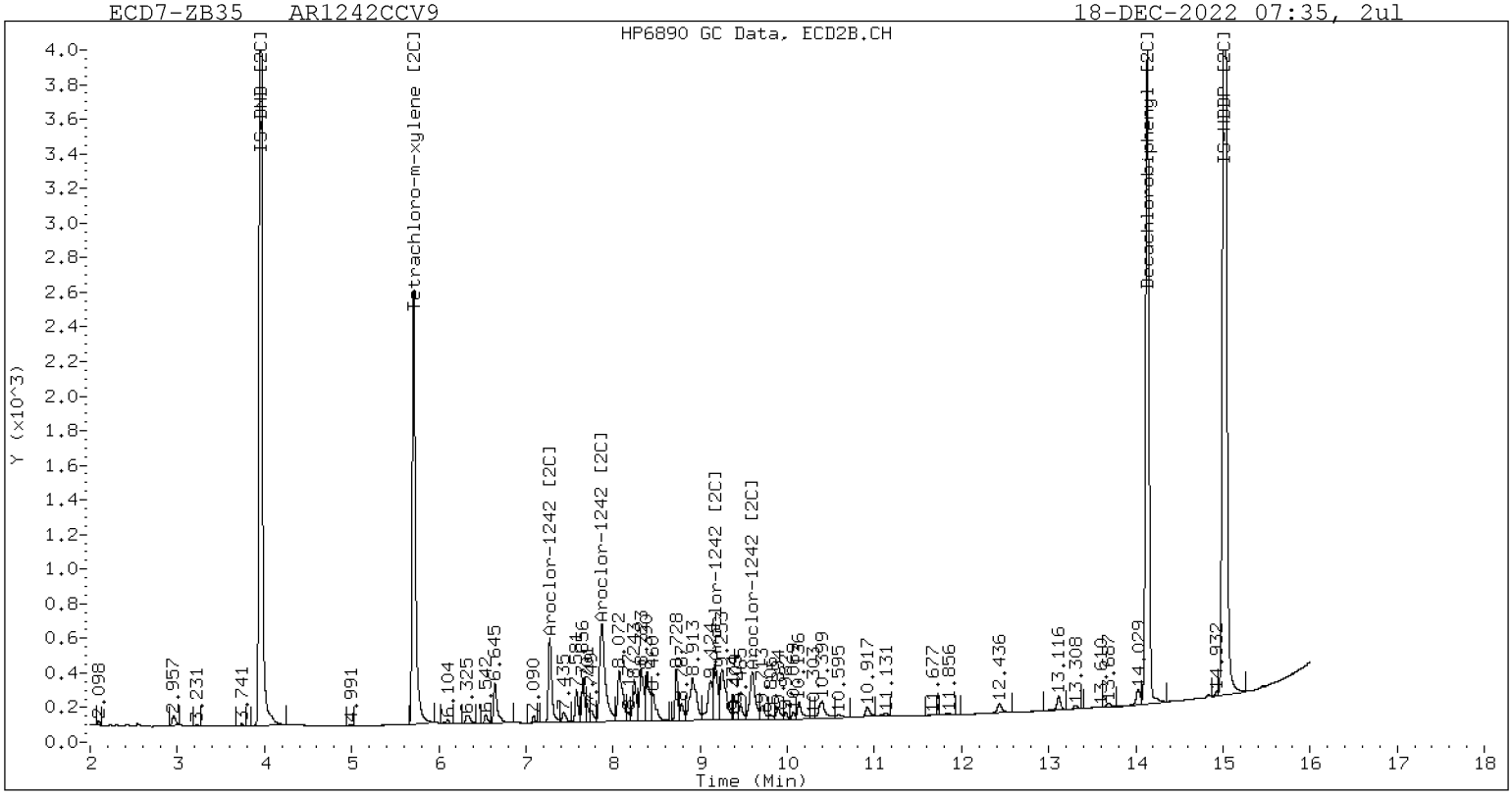
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV9 18-DEC-2022 07:35, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242CCV9 18-DEC-2022 07:35, 2ul



ZB-35 Manual Integration: NO

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12172265ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0280	Injection Date:	12/18/22
Lab Sample ID:	SKL0280-CCVA	Injection Time:	07:56
Sequence Name:	AR1660CCVA		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Aroclor 1016	A	250.00	284	0.0441939	0.0494436		13.7	+/-20	
Aroclor-1016 (1)	A	250.00	276	0.0266860	0.0294999		10.4		
Aroclor-1016 (2)	A	250.00	272	0.0861572	0.0935956		8.8		
Aroclor-1016 (3)	A	250.00	282	0.0390425	0.0441255		12.8		
Aroclor-1016 (4)	A	250.00	307	0.0248899	0.0305532		22.8		
Aroclor 1016 [2C]	A	250.00	244	0.0467310	0.0445560		-2.5	+/-20	
Aroclor-1016 (1) [2C]	A	250.00	249	0.0409030	0.0407707		-0.4		
Aroclor-1016 (2) [2C]	A	250.00	230	0.0882154	0.0810585		-8.0		
Aroclor-1016 (3) [2C]	A	250.00	235	0.0378846	0.0356022		-6.0		
Aroclor-1016 (4) [2C]	A	250.00	261	0.0199212	0.0207926		4.4		
Aroclor 1260	A	250.00	309	0.0390342	0.0481082		23.8	+/-20	*
Aroclor-1260 (1)	A	250.00	317	0.0291201	0.0369434		26.8		
Aroclor-1260 (2)	A	250.00	316	0.0301181	0.0380768		26.4		
Aroclor-1260 (3)	A	250.00	310	0.0791351	0.0981726		24.0		
Aroclor-1260 (4)	A	250.00	289	0.0403003	0.0465614		15.6		
Aroclor-1260 (5)	A	250.00	315	0.0164974	0.0207871		26.0		
Aroclor 1260 [2C]	A	250.00	239	0.0617619	0.0577912		-4.5	+/-20	
Aroclor-1260 (1) [2C]	A	250.00	239	0.0422283	0.0403970		-4.4		
Aroclor-1260 (2) [2C]	A	250.00	225	0.1059643	0.0954271		-10.0		
Aroclor-1260 (3) [2C]	A	250.00	255	0.0282173	0.0287657		2.0		
Aroclor-1260 (4) [2C]	A	250.00	236	0.0706376	0.0665750		-5.6		
Decachlorobiphenyl	A	40.000	46.3	0.7333327	0.8486500		15.8	+/-20	
Tetrachlorometaxylene	A	40.000	41.2	1.1336710	1.1669220		3.0	+/-20	
Decachlorobiphenyl [2C]	A	40.000	40.4	1.1358180	1.1461390		1.0	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	40.2	1.0966080	1.1029420		0.5	+/-20	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172265ECD7.D
Data file 2: /221217.b/221217.b/12172265ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCVA
Client ID:
Injection Date: 18-DEC-2022 07:56
Report Date: 12/20/2022 15:09
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.835	-0.001	217670	5.712	0.002	123497	41.2	40.2	2.3	Tetrachloro-m-xylene
13.904	-0.003	272782	14.133	-0.001	184608	46.3	40.4	13.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	373067	-16.7
Hexabromobiphenyl	798898	642861	-19.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	223941	-10.1
Hexabromobiphenyl	362541	322139	-11.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.291	-0.003	34392	276.4	1	7.275	0.000	28532	249.2
Aroclor-1016	2	7.679	-0.005	109117	271.6	2	7.872	-0.000	56726	229.7
Aroclor-1016	3	7.813	-0.004	51443	282.5	3	8.072	0.000	24915	234.9
Aroclor-1016	4	8.425	-0.004	35620	306.9	4	8.243	-0.000	14551	260.9
Total Col1Ave (4 peaks):					284.3	Total Col2Ave (4 peaks):				243.7 RPD = 15
Corrected Ave (3 peaks):					276.8	Corrected Ave (3 peaks):				237.9 RPD = 15
CalAmt %D:					13.7	CalAmt %D:				-2.5
Aroclor-1260	1	11.058	-0.004	74217	317.2	1	11.667	-0.000	40667	239.2
Aroclor-1260	2	11.375	-0.003	76494	316.1	2	11.929	-0.001	96065	225.1
Aroclor-1260	3	11.748	-0.004	197223	310.1	3	12.449	-0.000	28958	254.9
Aroclor-1260	4	12.152	-0.006	93539	288.8	4	12.512	-0.001	67020	235.6
Aroclor-1260	5	12.257	-0.004	41760	315.0	NS	---			----
Total Col1Ave (5 peaks):					309.4	Total Col2Ave (4 peaks):				238.7 RPD = 26
Corrected Ave (4 peaks):					307.5	Corrected Ave (3 peaks):				233.3 RPD = 27
CalAmt %D:					23.8	CalAmt %D:				-4.5

Total PCB Area Col1 (5.936 - 13.808) = 2175382 Col1 Total PCB = 0.5 ppm*

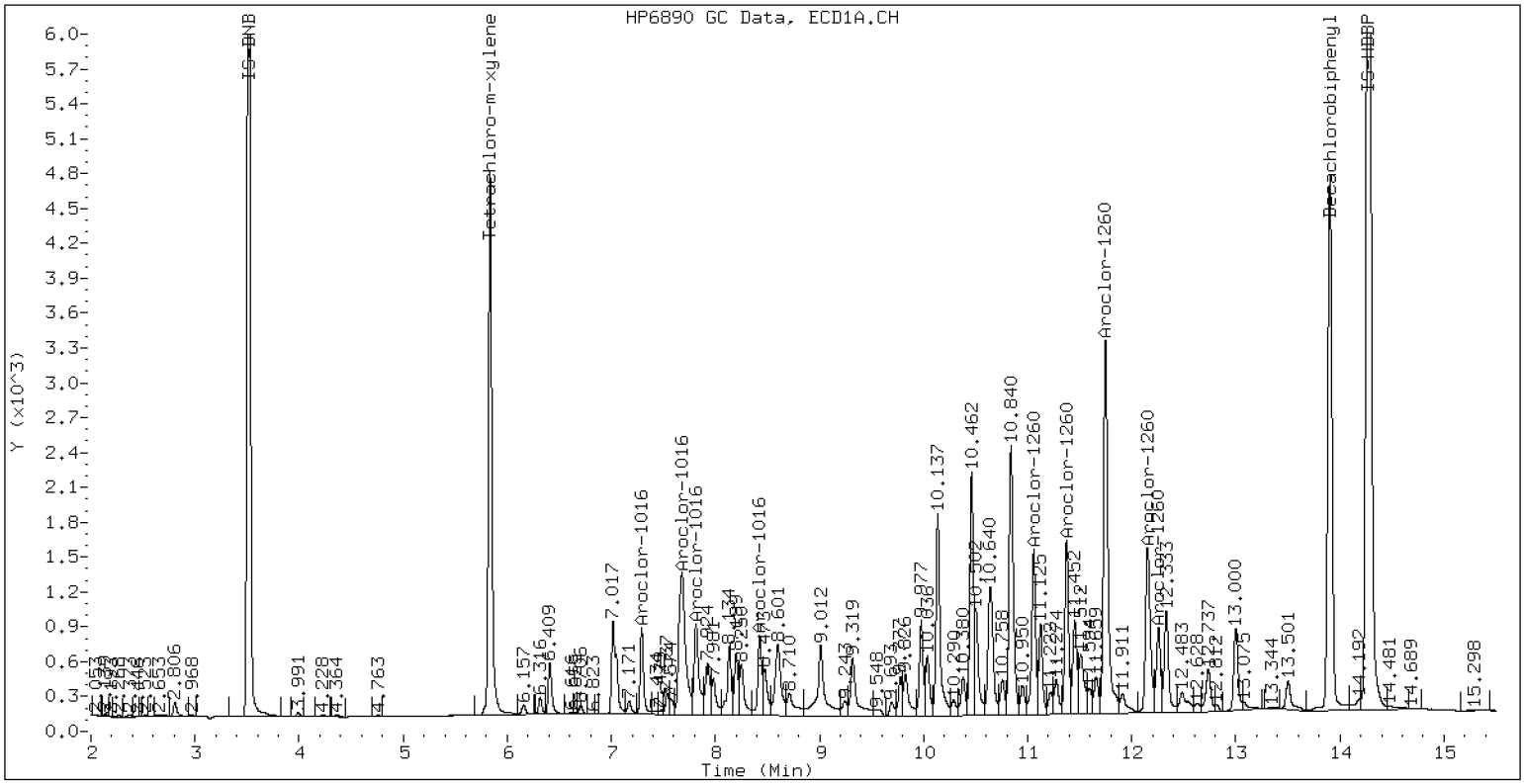
Total PCB Area Col2 (5.936 - 13.808) = 1015287 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

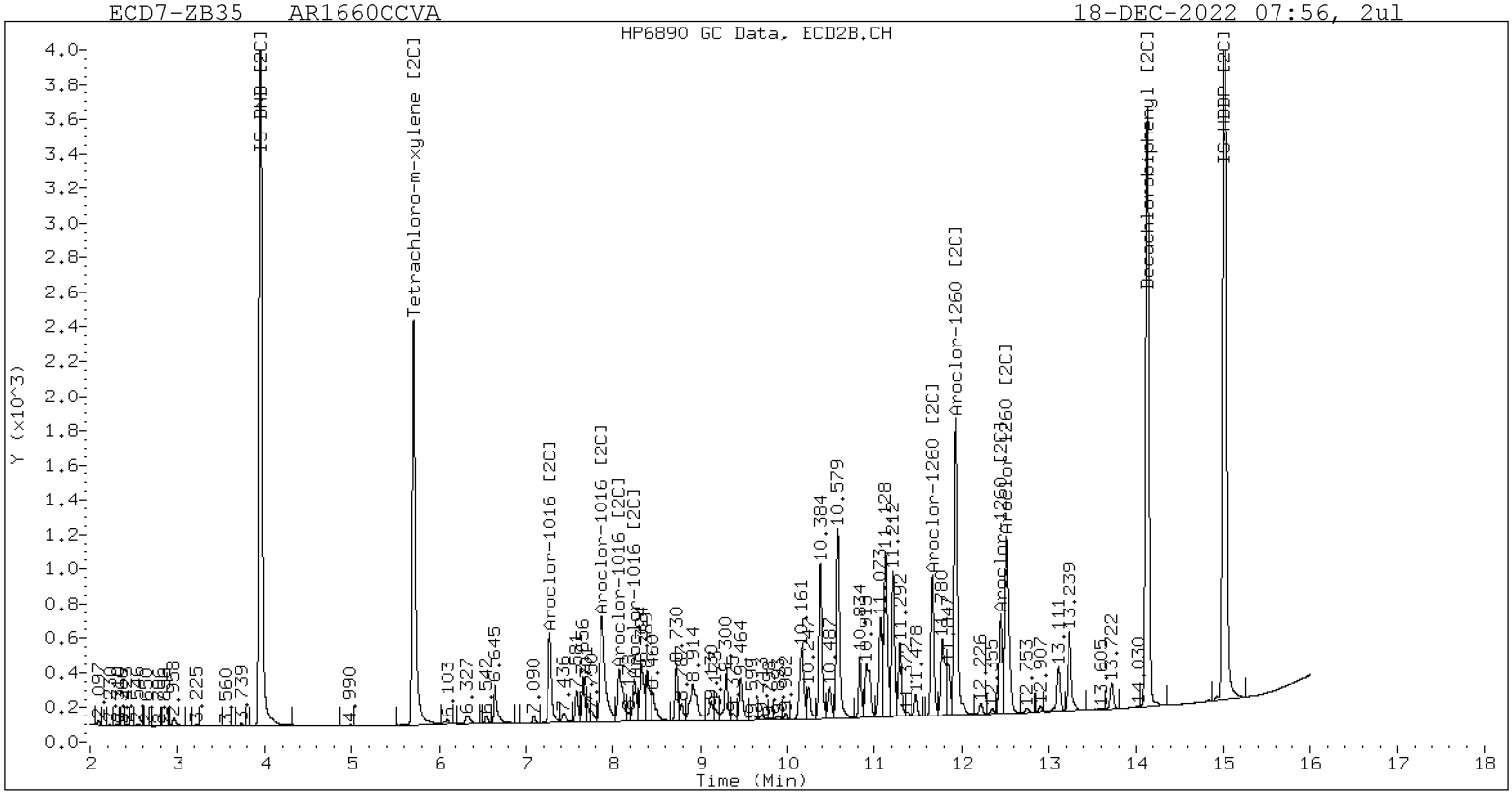
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCVA 18-DEC-2022 07:56, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCVA 18-DEC-2022 07:56, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12172279ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0280	Injection Date:	12/18/22
Lab Sample ID:	SKL0280-CCVB	Injection Time:	12:54
Sequence Name:	AR1254CCVB		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1254	A	250.00	265	0.0576965	0.0622616		6.1	+/-20
Aroclor-1254 (1)	A	250.00	269		0.0758909			
Aroclor-1254 (2)	A	250.00	280		0.0307114			
Aroclor-1254 (3)	A	250.00	188		0.0333939			
Aroclor-1254 (4)	A	250.00	285		0.0989986			
Aroclor-1254 (5)	A	250.00	304		0.0723133			
Aroclor 1254 [2C]	A	250.00	241	0.0638047	0.0623188		-3.5	+/-20
Aroclor-1254 (1) [2C]	A	250.00	250		0.0515827			
Aroclor-1254 (2) [2C]	A	250.00	191		0.0317388			
Aroclor-1254 (3) [2C]	A	250.00	235		0.0837859			
Aroclor-1254 (4) [2C]	A	250.00	262		0.0967232			
Aroclor-1254 (5) [2C]	A	250.00	268		0.0477633			
Decachlorobiphenyl	A	40.000	40.9	0.7333327	0.7502408		2.3	+/-20
Tetrachlorometaxylene	A	40.000	37.2	1.1336710	1.0536220		-7.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	39.4	1.1358180	1.1183640		-1.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.3	1.0966080	0.9949294		-9.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172279ECD7.D
Data file 2: /221217.b/221217.b/12172279ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254CCVB
Client ID:
Injection Date: 18-DEC-2022 12:54
Report Date: 12/20/2022 15:10
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.835	-0.001	239376	5.712	0.001	131955	37.2	36.3	2.4	Tetrachloro-m-xylene
13.904	-0.003	370350	14.132	-0.002	240875	40.9	39.4	3.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	454387	1.5
Hexabromobiphenyl	798898	987283	23.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	265255	6.5
Hexabromobiphenyl	362541	430763	18.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.317	-0.004	107762	269.4	1	9.464	0.000	42758	250.0
Aroclor-1254	2	9.396	-0.005	43609	280.3	2	9.981	0.000	26309	191.3
Aroclor-1254	3	9.690	-0.004	47418	187.7	3	10.134	0.000	69452	235.0
Aroclor-1254	4	9.826	-0.005	140574	285.4	4	10.382	0.000	80176	261.9
Aroclor-1254	5	10.182	-0.007	102682	304.1	5	10.579	0.000	39592	268.2

Total Col1Ave (5 peaks): 265.4 Total Col2Ave (5 peaks): 241.3 RPD = 10

Corrected Ave (4 peaks): 255.7 Corrected Ave (4 peaks): 234.6 RPD = 9

CalAmt %D: 6.1 CalAmt %D: -3.5

Total PCB Area Col1 (5.936 - 13.808) = 1491519 Col1 Total PCB = 0.3 ppm*

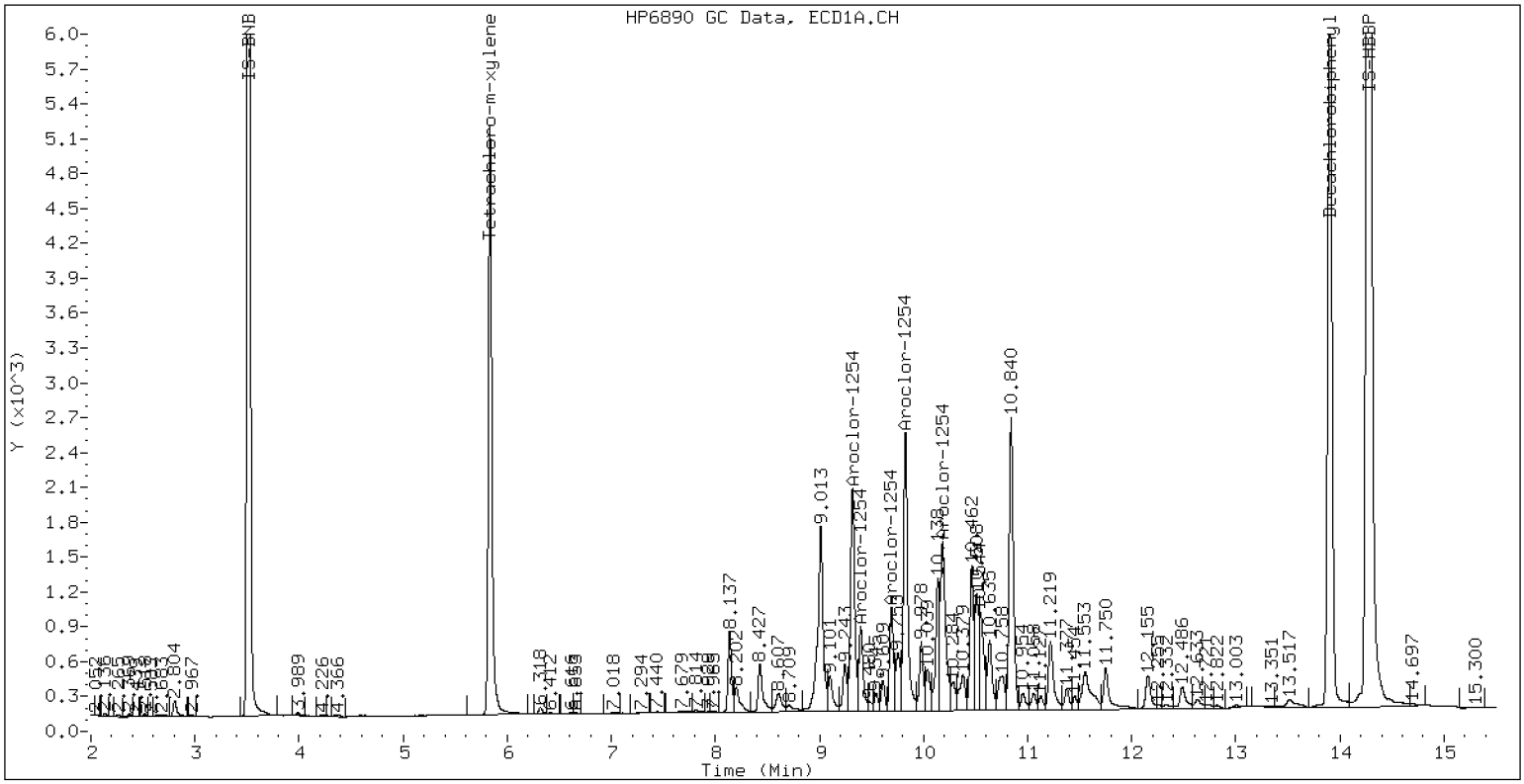
Total PCB Area Col2 (5.936 - 13.808) = 733927 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

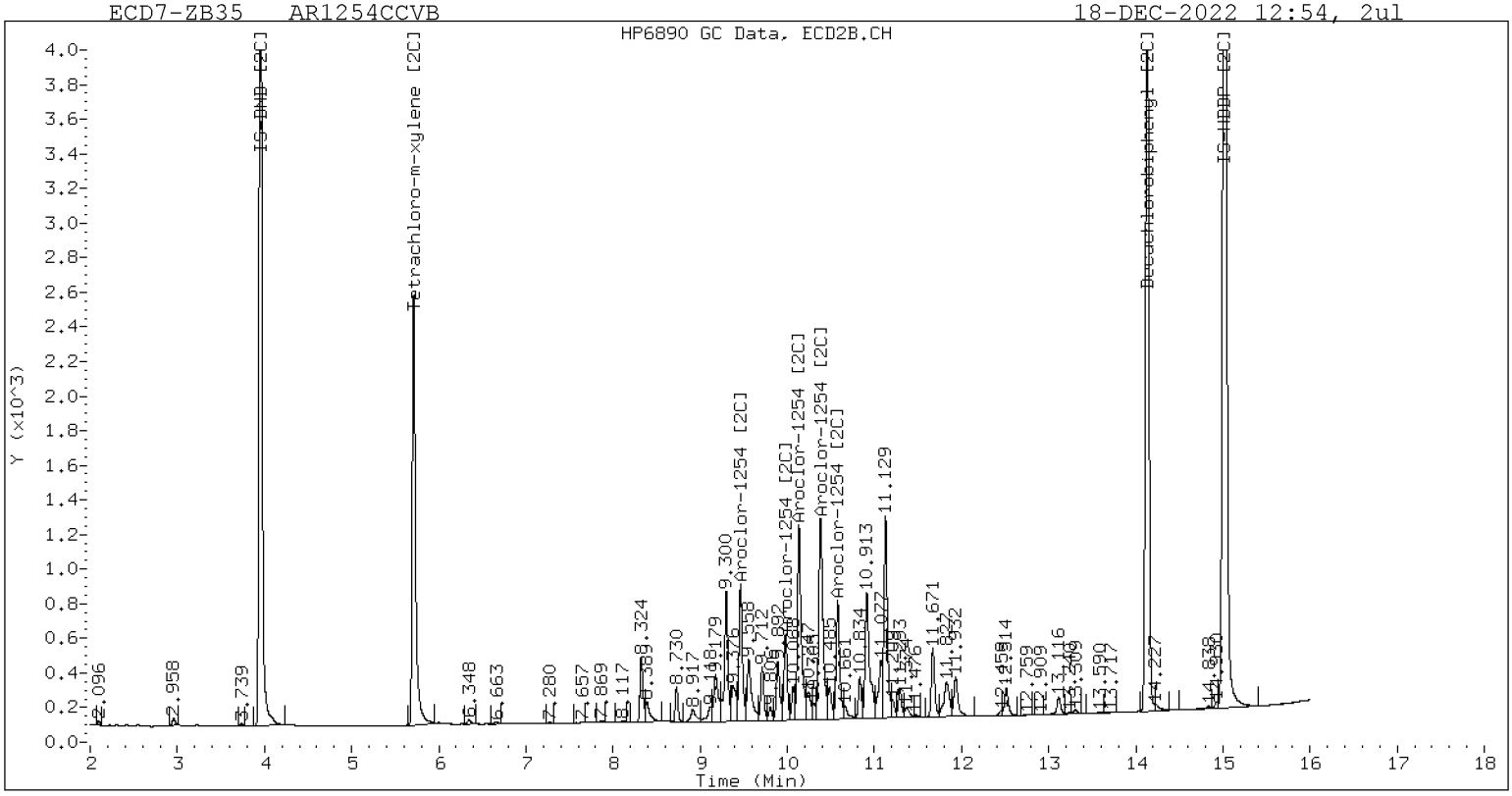
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254CCVB 18-DEC-2022 12:54, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254CCVB 18-DEC-2022 12:54, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12172280ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0280	Injection Date:	12/18/22
Lab Sample ID:	SKL0280-CCVC	Injection Time:	13:15
Sequence Name:	AR1660CCVC		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	288	0.0441939	0.0498279		15.0	+/-20
Aroclor-1016 (1)	A	250.00	296	0.0266860	0.0315831		18.4	
Aroclor-1016 (2)	A	250.00	271	0.0861572	0.0933001		8.4	
Aroclor-1016 (3)	A	250.00	288	0.0390425	0.0450132		15.2	
Aroclor-1016 (4)	A	250.00	295	0.0248899	0.0294150		18.0	
Aroclor 1016 [2C]	A	250.00	247	0.0467310	0.0453106		-1.1	+/-20
Aroclor-1016 (1) [2C]	A	250.00	250	0.0409030	0.0408820		0.0	
Aroclor-1016 (2) [2C]	A	250.00	235	0.0882154	0.0828502		-6.0	
Aroclor-1016 (3) [2C]	A	250.00	241	0.0378846	0.0365520		-3.6	
Aroclor-1016 (4) [2C]	A	250.00	263	0.0199212	0.0209581		5.2	
Aroclor 1260	A	250.00	259	0.0390342	0.0403131		3.8	+/-20
Aroclor-1260 (1)	A	250.00	254	0.0291201	0.0296059		1.6	
Aroclor-1260 (2)	A	250.00	260	0.0301181	0.0313060		4.0	
Aroclor-1260 (3)	A	250.00	262	0.0791351	0.0828737		4.8	
Aroclor-1260 (4)	A	250.00	246	0.0403003	0.0396524		-1.6	
Aroclor-1260 (5)	A	250.00	275	0.0164974	0.0181274		10.0	
Aroclor 1260 [2C]	A	250.00	213	0.0617619	0.0514896		-15.0	+/-20
Aroclor-1260 (1) [2C]	A	250.00	209	0.0422283	0.0352562		-16.4	
Aroclor-1260 (2) [2C]	A	250.00	199	0.1059643	0.0844559		-20.4	
Aroclor-1260 (3) [2C]	A	250.00	228	0.0282173	0.0257880		-8.8	
Aroclor-1260 (4) [2C]	A	250.00	214	0.0706376	0.0604581		-14.4	
Decachlorobiphenyl	A	40.000	42.6	0.7333327	0.7805072		6.5	+/-20
Tetrachlorometaxylene	A	40.000	41.8	1.1336710	1.1851010		4.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	39.2	1.1358180	1.1130920		-2.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.1	1.0966080	1.1002740		0.3	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172280ECD7.D
Data file 2: /221217.b/221217.b/12172280ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCVC
Client ID:
Injection Date: 18-DEC-2022 13:15
Report Date: 12/20/2022 15:35
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.833	0.000	241302	5.710	0.000	128517	41.8	40.1	4.1	Tetrachloro-m-xylene
13.905	0.000	359038	14.134	0.000	220263	42.6	39.2	8.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	407226	-9.0
Hexabromobiphenyl	798898	920012	15.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	233609	-6.2
Hexabromobiphenyl	362541	395768	9.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.291	0.000	40192	295.9	1	7.274	0.000	29845	249.9
Aroclor-1016	2	7.678	0.000	118732	270.7	2	7.873	0.000	60483	234.8
Aroclor-1016	3	7.813	0.000	57283	288.2	3	8.072	0.000	26684	241.2
Aroclor-1016	4	8.424	0.000	37433	295.5	4	8.243	0.000	15300	263.0
Total Col1Ave (4 peaks):					287.6	Total Col2Ave (4 peaks):				247.2 RPD = 15
Corrected Ave (3 peaks):					284.8	Corrected Ave (3 peaks):				242.0 RPD = 16
CalAmt %D:					15.0	CalAmt %D:				-1.1
Aroclor-1260	1	11.058	0.000	85118	254.2	1	11.667	0.000	43604	208.7
Aroclor-1260	2	11.375	0.000	90006	259.9	2	11.930	0.000	104453	199.3
Aroclor-1260	3	11.749	0.000	238265	261.8	3	12.449	0.000	31894	228.5
Aroclor-1260	4	12.154	0.000	114002	246.0	4	12.513	0.000	74773	214.0
Aroclor-1260	5	12.259	0.000	52117	274.7	NS	---			----
Total Col1Ave (5 peaks):					259.3	Total Col2Ave (4 peaks):				212.6 RPD = 20
Corrected Ave (4 peaks):					255.5	Corrected Ave (3 peaks):				207.3 RPD = 21
CalAmt %D:					3.7	CalAmt %D:				-15.0

Total PCB Area Col1 (5.933 - 13.805) = 2576947 Col1 Total PCB = 0.5 ppm*

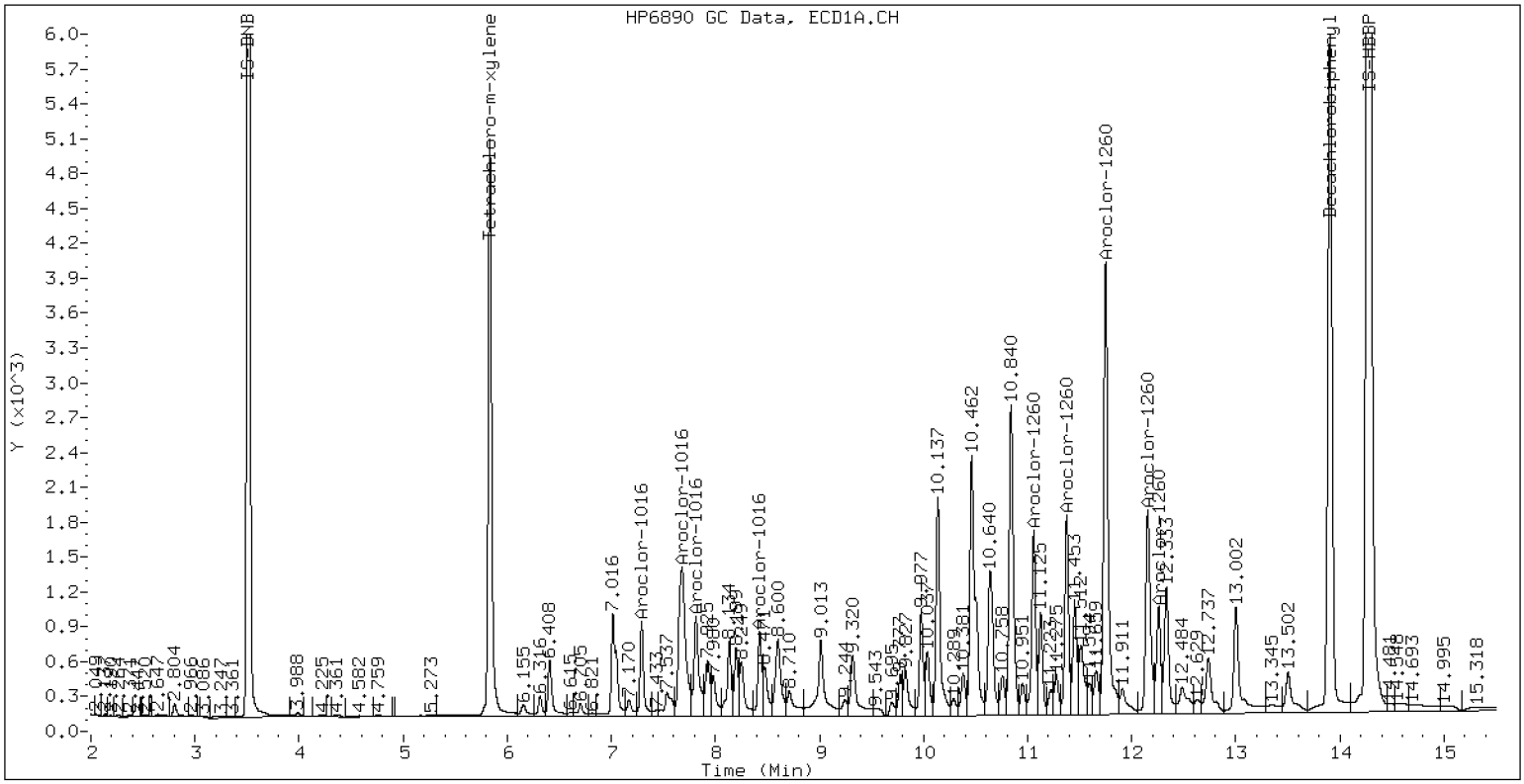
Total PCB Area Col2 (5.933 - 13.805) = 1094790 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

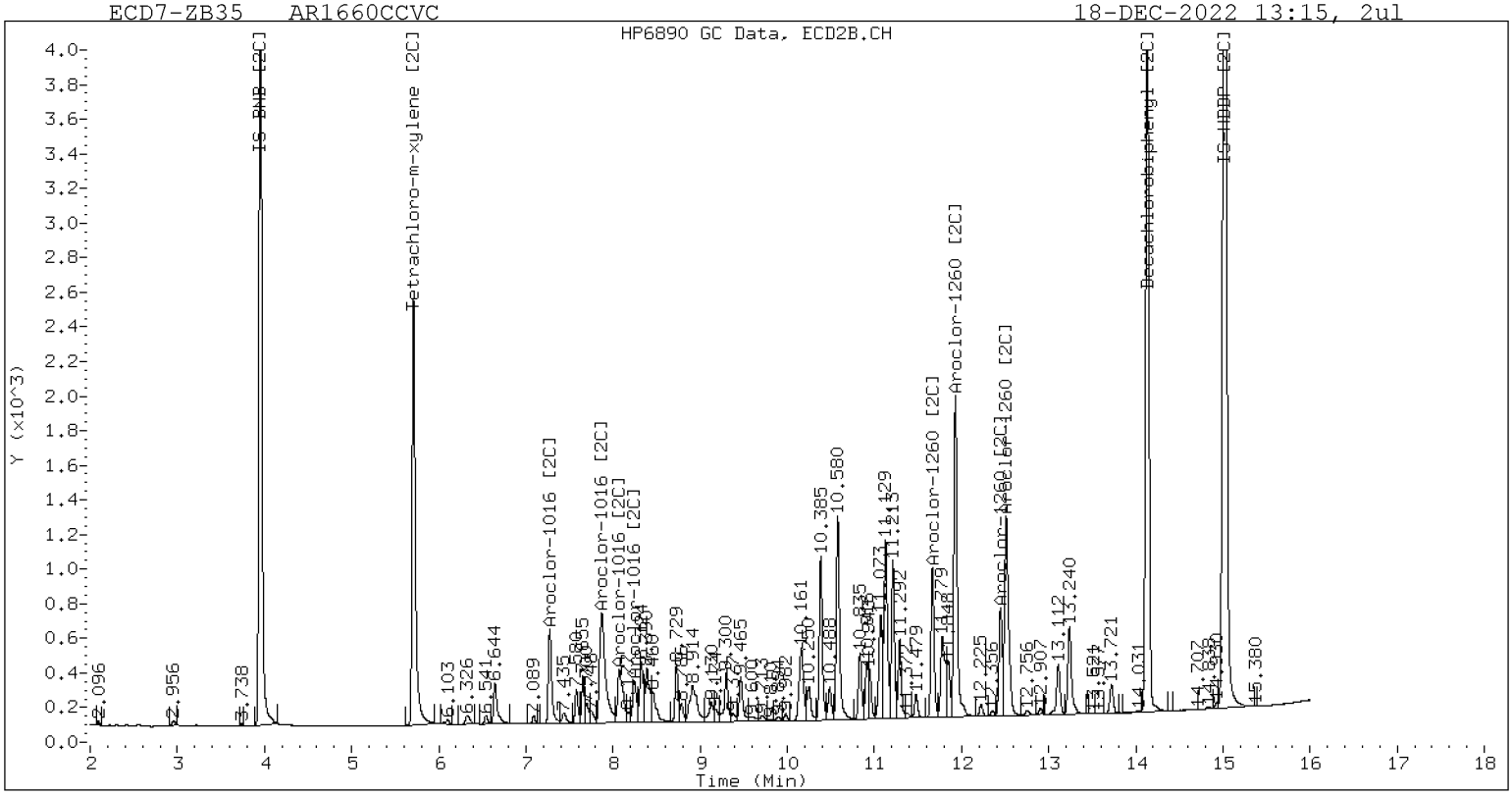
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCVC 18-DEC-2022 13:15, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1660CCVC 18-DEC-2022 13:15, 2ul

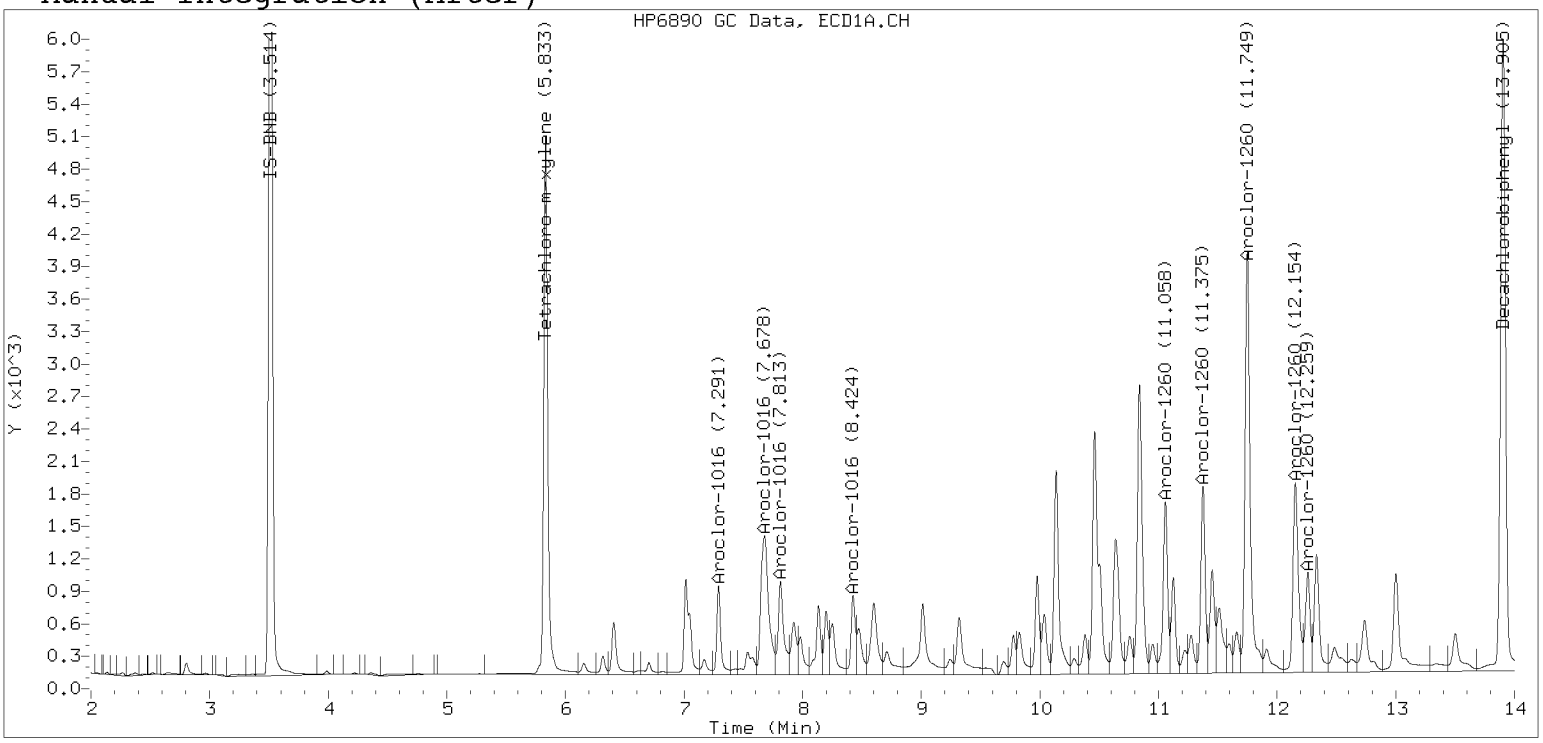


ZB-35 Manual Integration: NO

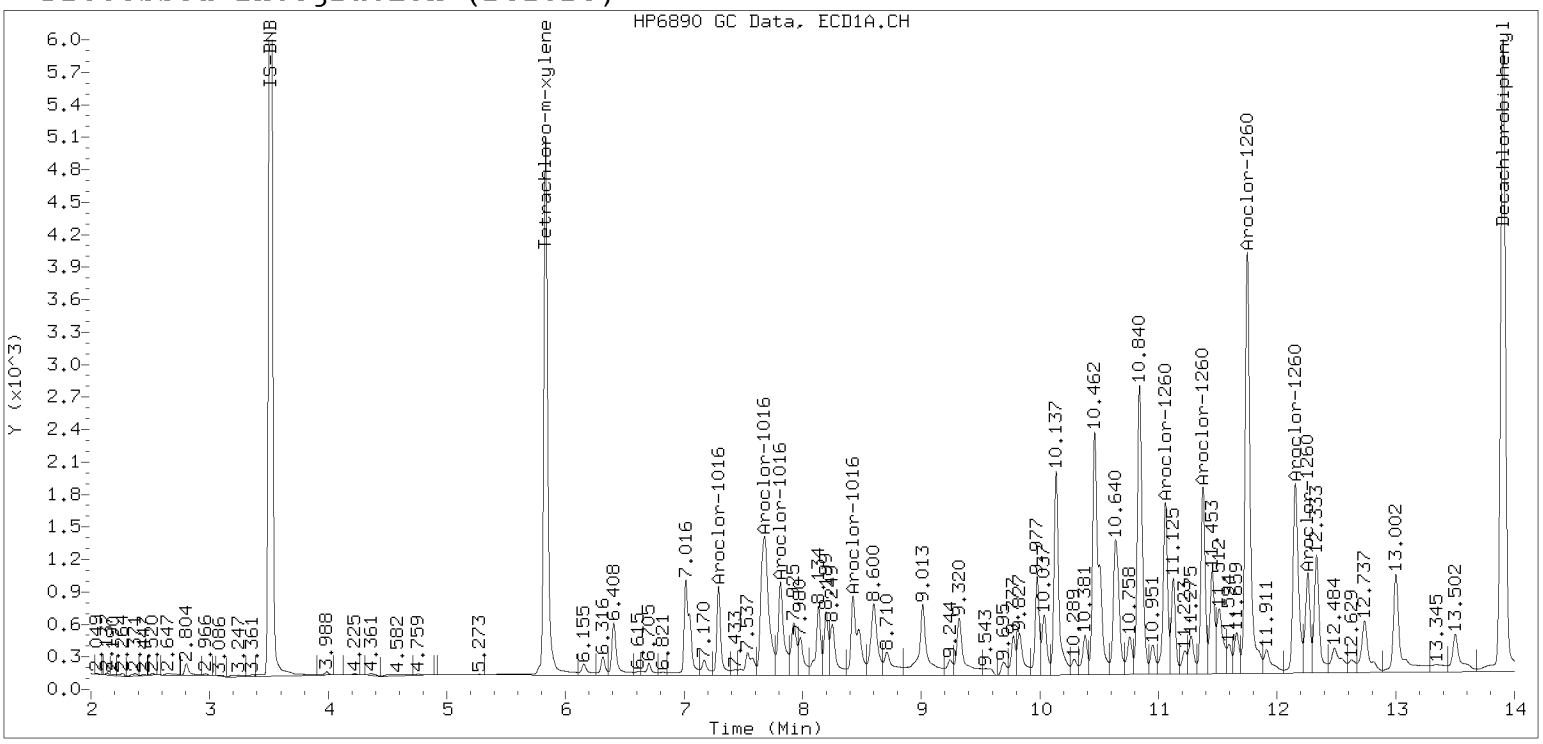
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221217.b/12172280ECD7.D Injection Date: 18-DEC-2022 13:15

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12262214ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0359	Injection Date:	12/26/22
Lab Sample ID:	SKL0359-CCV1	Injection Time:	20:20
Sequence Name:	AR1248CCV1		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	248	0.0490062	0.0478183		-1.0	+/-20
Aroclor-1248 (1)	A	250.00	296		0.0407780			
Aroclor-1248 (2)	A	250.00	310		0.0545231			
Aroclor-1248 (3)	A	250.00	227		0.0716925			
Aroclor-1248 (4)	A	250.00	157		0.0242795			
Aroclor 1248 [2C]	A	250.00	256	0.0394876	0.0409291		2.4	+/-20
Aroclor-1248 (1) [2C]	A	250.00	271		0.0354335			
Aroclor-1248 (2) [2C]	A	250.00	195		0.0268320			
Aroclor-1248 (3) [2C]	A	250.00	283		0.0473652			
Aroclor-1248 (4) [2C]	A	250.00	275		0.0540855			
Decachlorobiphenyl	A	40.000	43.4	0.7333327	0.7955668		8.5	+/-20
Tetrachlorometaxylene	A	40.000	39.5	1.1336710	1.1190720		-1.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	45.1	1.1358180	1.2817980		12.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	39.3	1.0966080	1.0769590		-1.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221226.b/12262214ECD7.D
Data file 2: /221226.b/221226.b/12262214ECD7.D
Method: \\target\share\chem4\ecd7.i\221226.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCV1
Client ID:
Injection Date: 26-DEC-2022 20:20
Report Date: 12/29/2022 12:29
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.833	0.002	255958	5.710	0.002	160202	39.5	39.3	0.5	Tetrachloro-m-xylene
13.901	0.000	382853	14.127	-0.000	274481	43.4	45.1	3.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	457447	2.2
Hexabromobiphenyl	798898	962466	20.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	297508	19.4
Hexabromobiphenyl	362541	428275	18.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.421	0.000	58293	296.4	1	8.320	0.000	32943	271.0
Aroclor-1248	2	8.595	-0.001	77942	310.4	2	8.724	-0.000	24946	195.2
Aroclor-1248	3	9.015	-0.000	102486	226.9	3	9.168	-0.000	44036	283.2
Aroclor-1248	4	9.310	0.002	34708	156.8	4	9.589	-0.001	50284	275.5
Total Col1Ave (4 peaks):					247.6	Total Col2Ave (4 peaks):				256.2 RPD = 3
Corrected Ave (3 peaks):					226.7	Corrected Ave (3 peaks):				247.2 RPD = 9
CalAmt %D:					-1.0	CalAmt %D:				2.5

Total PCB Area Col1 (5.931 - 13.801) = 1228997 Col1 Total PCB = 0.3 ppm*

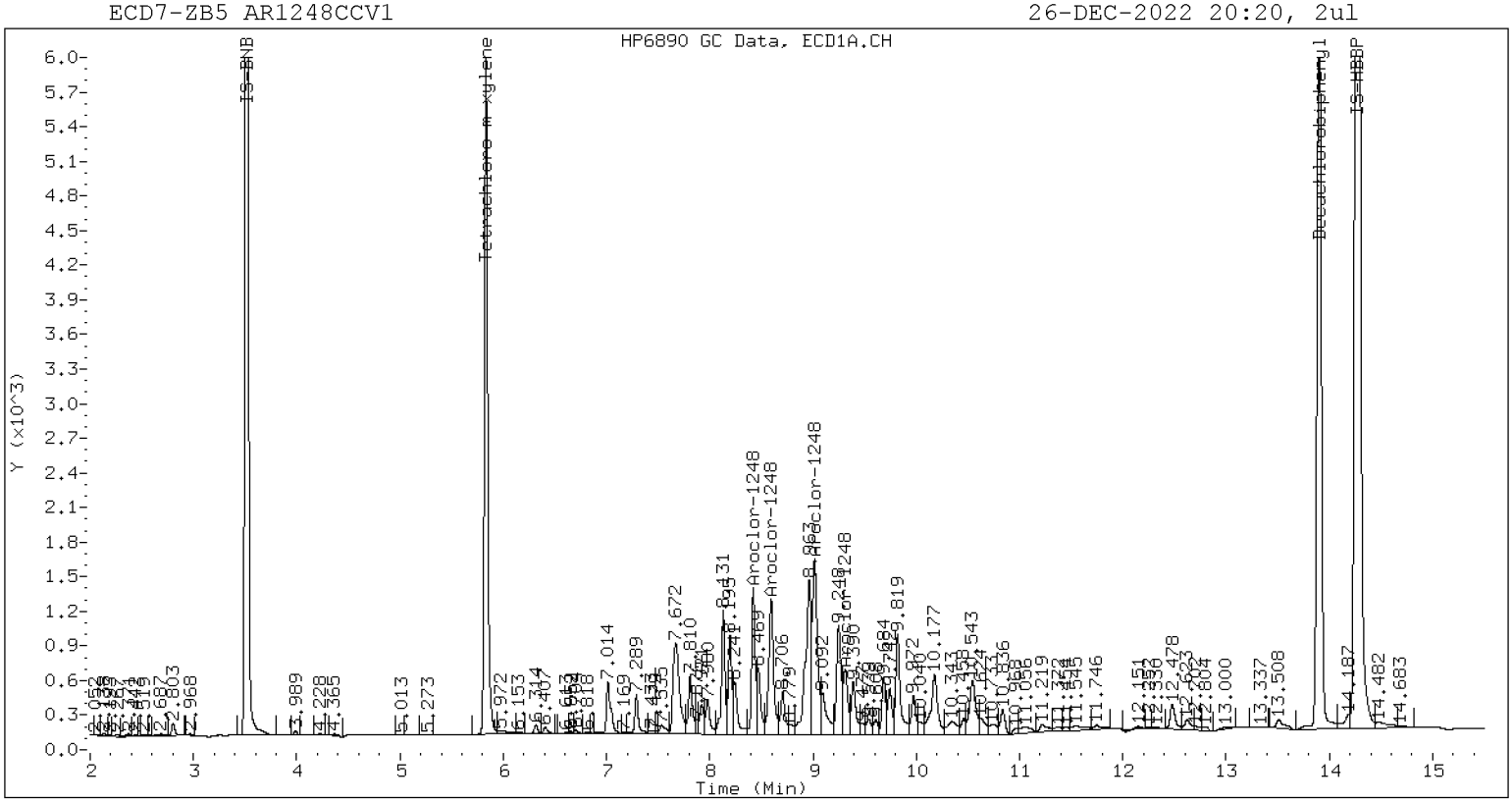
Total PCB Area Col2 (5.807 - 14.027) = 627649 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

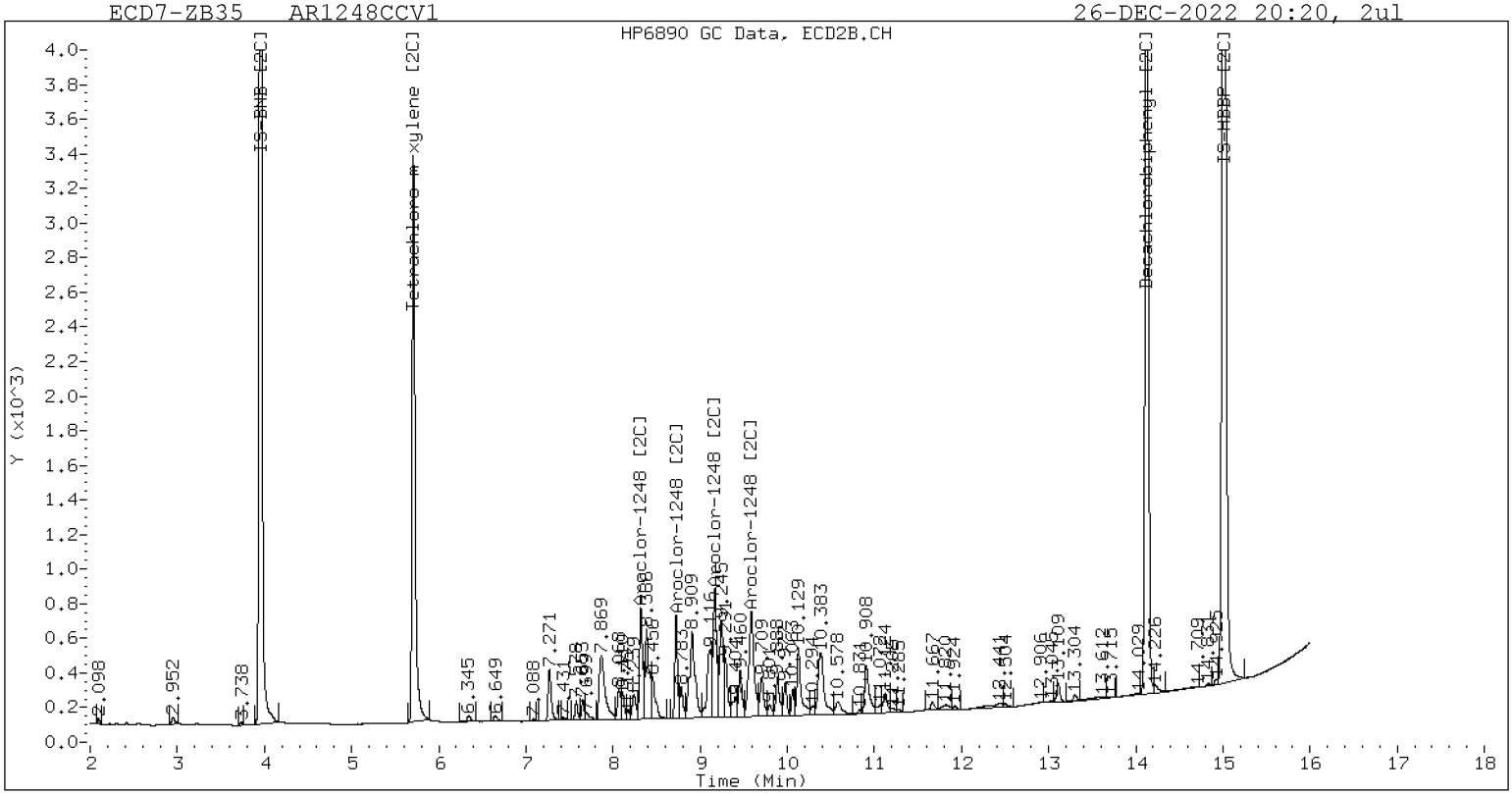
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV1 26-DEC-2022 20:20, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248CCV1 26-DEC-2022 20:20, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12262215ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0359	Injection Date:	12/26/22
Lab Sample ID:	SKL0359-CCV2	Injection Time:	20:41
Sequence Name:	AR1660CCV2		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	268	0.0441939	0.0468247		7.1	+/-20
Aroclor-1016 (1)	A	250.00	267	0.0266860	0.0284656		6.8	
Aroclor-1016 (2)	A	250.00	264	0.0861572	0.0908562		5.6	
Aroclor-1016 (3)	A	250.00	250	0.0390425	0.0391227		0.0	
Aroclor-1016 (4)	A	250.00	290	0.0248899	0.0288542		16.0	
Aroclor 1016 [2C]	A	250.00	246	0.0467310	0.0433976		-1.6	+/-20
Aroclor-1016 (1) [2C]	A	250.00	257	0.0409030	0.0420655		2.8	
Aroclor-1016 (2) [2C]	A	250.00	205	0.0882154	0.0723266		-18.0	
Aroclor-1016 (3) [2C]	A	250.00	245	0.0378846	0.0371426		-2.0	
Aroclor-1016 (4) [2C]	A	250.00	277	0.0199212	0.0220557		10.8	
Aroclor 1260	A	250.00	256	0.0390342	0.0397199		2.2	+/-20
Aroclor-1260 (1)	A	250.00	252	0.0291201	0.0293365		0.8	
Aroclor-1260 (2)	A	250.00	251	0.0301181	0.0302247		0.4	
Aroclor-1260 (3)	A	250.00	253	0.0791351	0.0801659		1.2	
Aroclor-1260 (4)	A	250.00	256	0.0403003	0.0413413		2.4	
Aroclor-1260 (5)	A	250.00	266	0.0164974	0.0175308		6.4	
Aroclor 1260 [2C]	A	250.00	232	0.0617619	0.0512802		-7.3	+/-20
Aroclor-1260 (1) [2C]	A	250.00	272	0.0422283	0.0459221		8.8	
Aroclor-1260 (2) [2C]	A	250.00	169	0.1059643	0.0715774		-32.4	
Aroclor-1260 (3) [2C]	A	250.00	292	0.0282173	0.0329236		16.8	
Aroclor-1260 (4) [2C]	A	250.00	194	0.0706376	0.0546976		-22.4	
Decachlorobiphenyl	A	40.000	43.8	0.7333327	0.8031376		9.5	+/-20
Tetrachlorometaxylene	A	40.000	43.6	1.1336710	1.2368760		9.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	45.7	1.1358180	1.2977490		14.3	+/-20
Tetrachlorometaxylene [2C]	A	40.000	41.6	1.0966080	1.1419200		4.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221226.b/12262215ECD7.D
Data file 2: /221226.b/221226.b/12262215ECD7.D
Method: \\target\share\chem4\ecd7.i\221226.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV2
Client ID:
Injection Date: 26-DEC-2022 20:41
Report Date: 12/29/2022 12:29
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.001	259736	5.709	0.001	157179	43.6	41.7	4.7	Tetrachloro-m-xylene
13.901	0.001	383809	14.128	0.001	266736	43.8	45.7	4.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	419987	-6.2
Hexabromobiphenyl	798898	955774	19.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	275289	10.5
Hexabromobiphenyl	362541	411075	13.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	7.288	0.001	37360	266.7	1	7.272	0.002	36188	257.1
Aroclor-1016	2	7.673	-0.002	119245	263.6	2	7.869	0.000	62221	205.0
Aroclor-1016	3	7.808	-0.000	51347	250.5	3	8.067	0.000	31953	245.1
Aroclor-1016	4	8.420	-0.000	37870	289.8	4	8.238	-0.001	18974	276.8
Total Col1Ave (4 peaks):					267.7	Total Col2Ave (4 peaks):				246.0 RPD = 8
Corrected Ave (3 peaks):					260.3	Corrected Ave (3 peaks):				235.7 RPD = 10
CalAmt %D:					7.1	CalAmt %D:				-1.6
Aroclor-1260	1	11.054	-0.001	87622	251.9	1	11.662	0.001	58992	271.9
Aroclor-1260	2	11.369	-0.002	90275	250.9	2	11.924	0.001	91949	168.9
Aroclor-1260	3	11.743	-0.001	239439	253.3	3	12.443	0.001	42294	291.7
Aroclor-1260	4	12.145	-0.003	123478	256.5	4	12.507	0.000	70265	193.6
Aroclor-1260	5	12.253	-0.002	52361	265.7	NS	---			----
Total Col1Ave (5 peaks):					255.6	Total Col2Ave (4 peaks):				231.5 RPD = 10
Corrected Ave (4 peaks):					253.1	Corrected Ave (3 peaks):				211.4 RPD = 18
CalAmt %D:					2.2	CalAmt %D:				-7.4

Total PCB Area Col1 (5.931 - 13.801) = 2309844 Col1 Total PCB = 0.6 ppm*

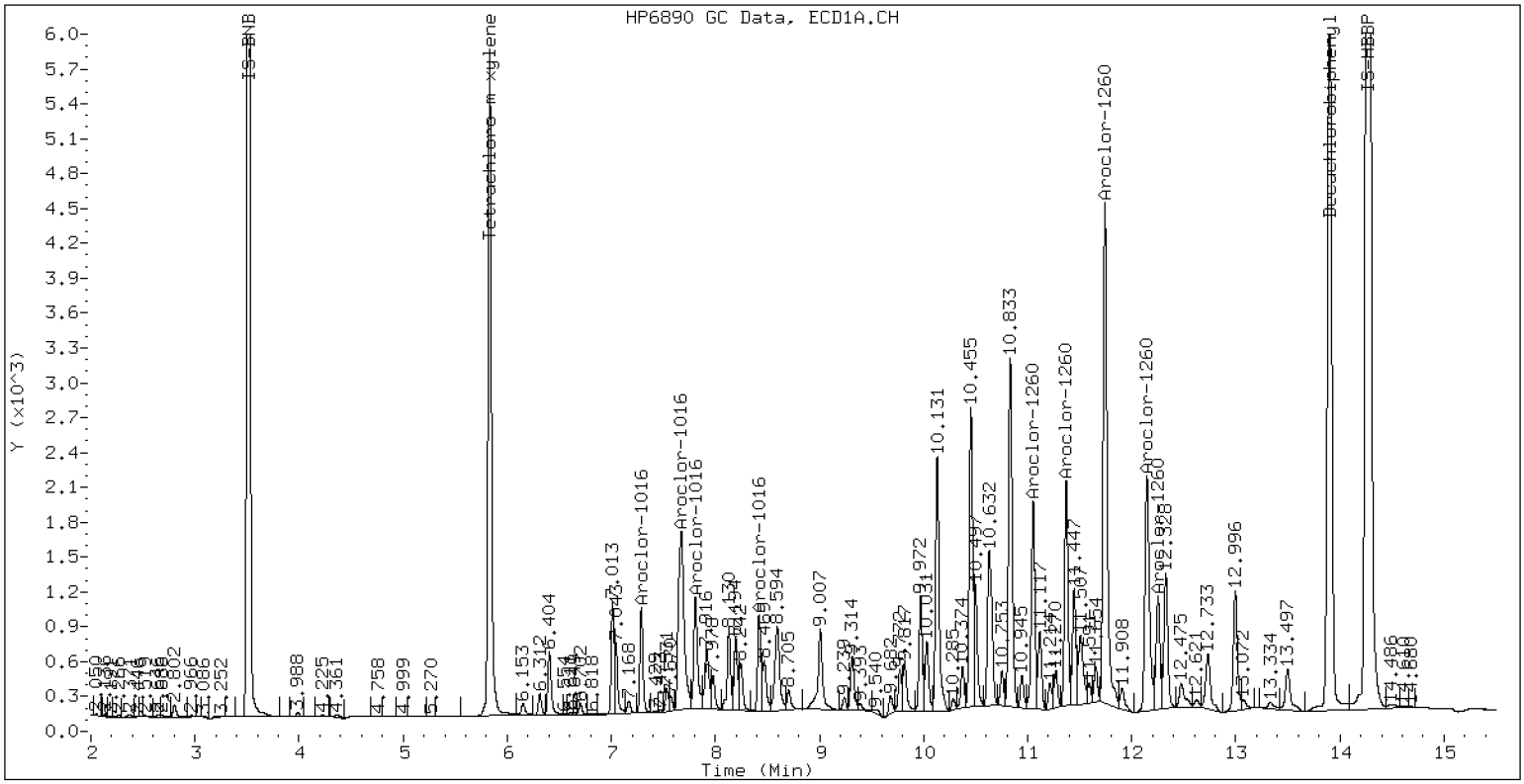
Total PCB Area Col2 (5.807 - 14.027) = 1268169 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

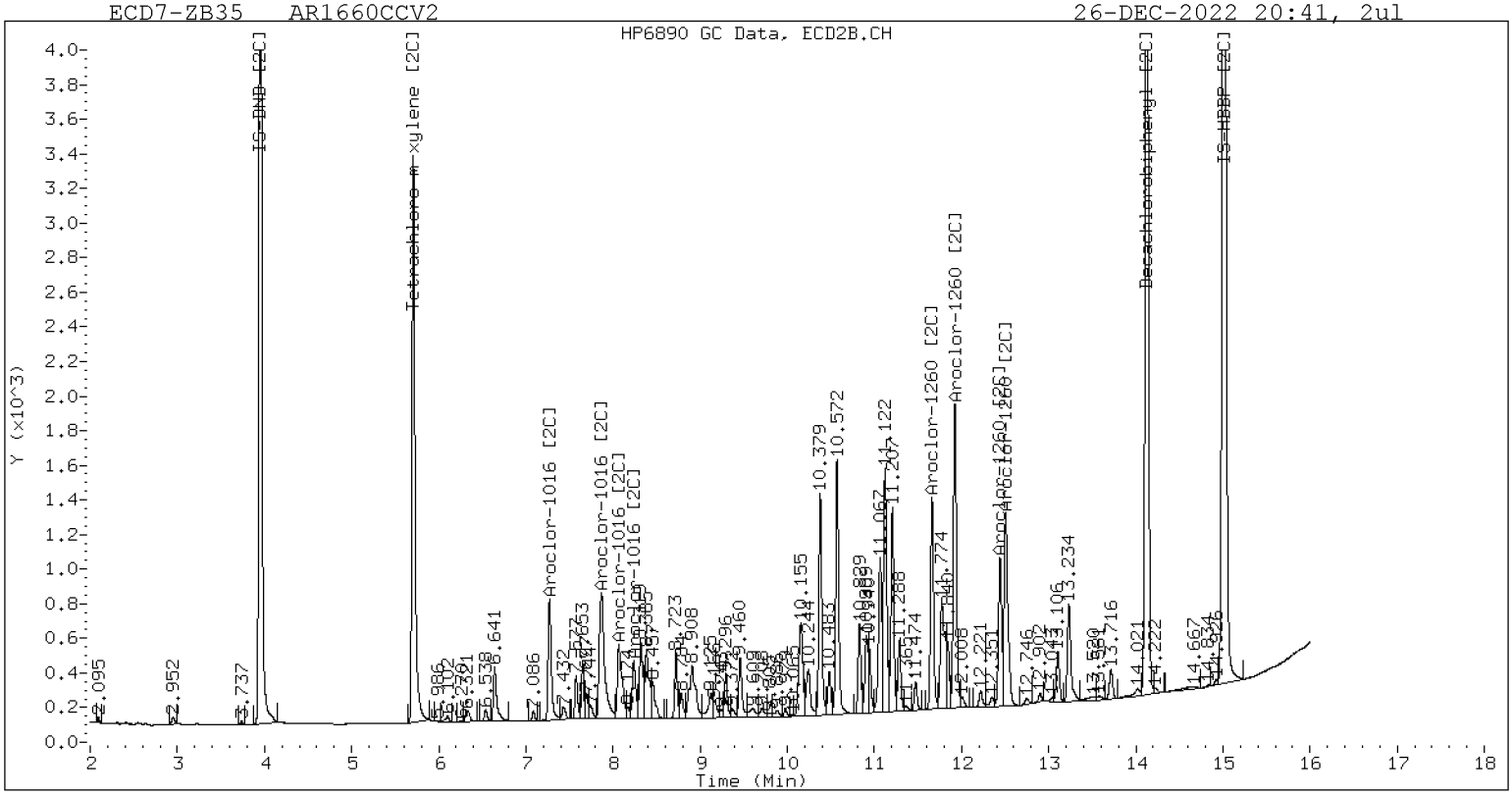
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV2 26-DEC-2022 20:41, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1660CCV2 26-DEC-2022 20:41, 2ul

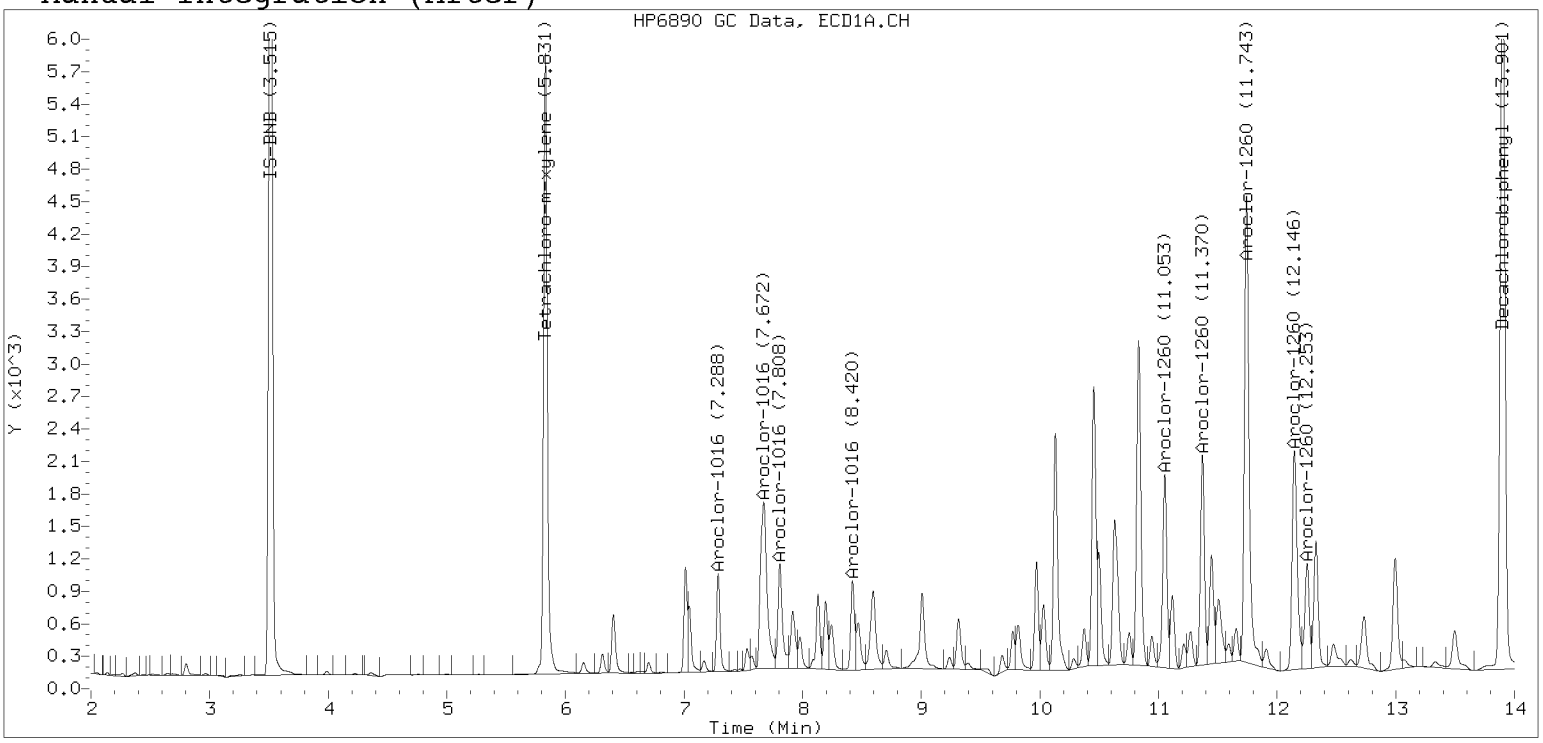


ZB-35 Manual Integration: NO

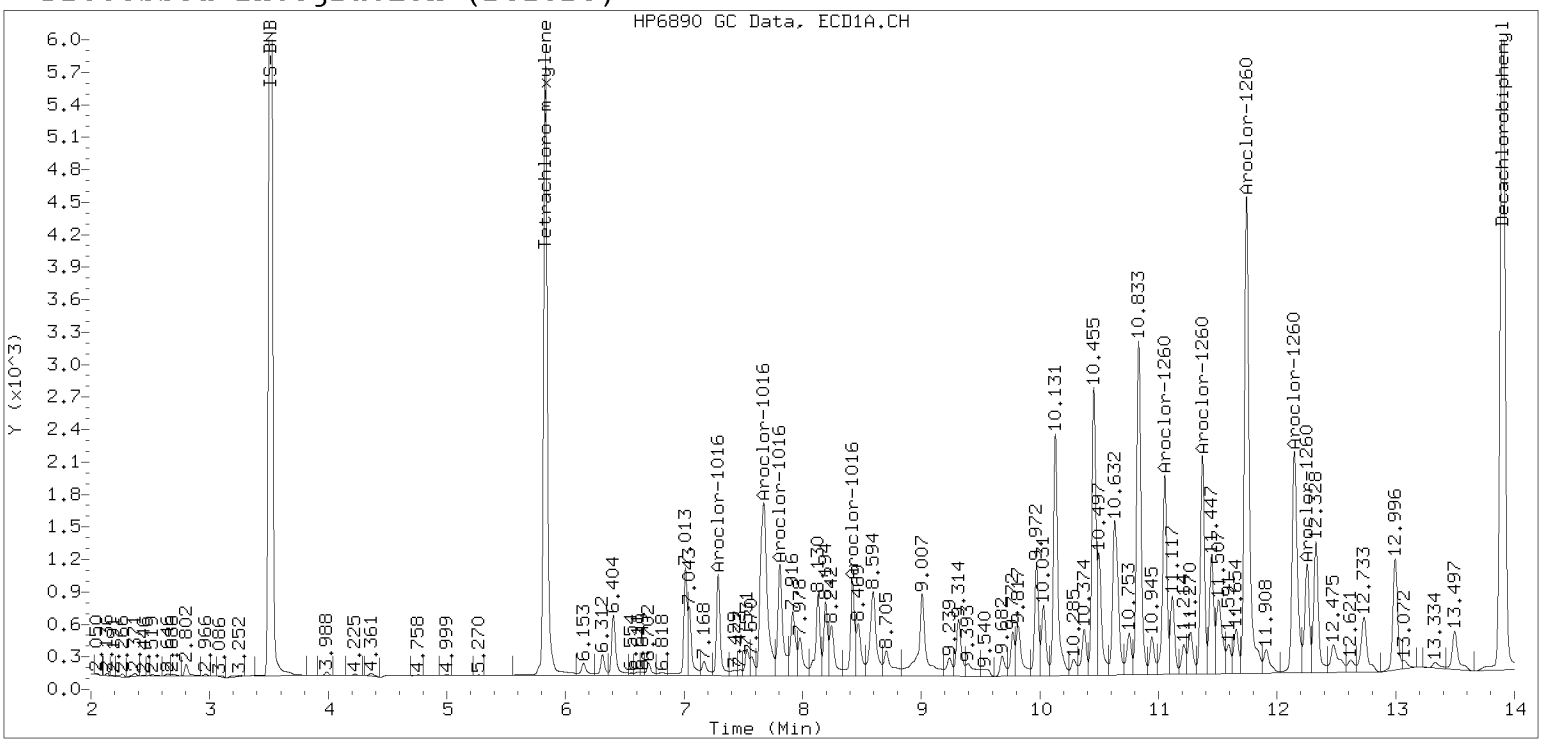
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221226.b/12262215ECD7.D Injection Date: 26-DEC-2022 20:41

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12262226ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0359	Injection Date:	12/27/22
Lab Sample ID:	SKL0359-CCV3	Injection Time:	00:36
Sequence Name:	AR1242CCV3		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	264	0.0396000	0.0417892		5.7	+/-20
Aroclor-1242 (1)	A	250.00	271		0.0246048			
Aroclor-1242 (2)	A	250.00	278		0.0800507			
Aroclor-1242 (3)	A	250.00	280		0.0232205			
Aroclor-1242 (4)	A	250.00	228		0.0392809			
Aroclor 1242 [2C]	A	250.00	271	0.0391981	0.0397265		8.2	+/-20
Aroclor-1242 (1) [2C]	A	250.00	277		0.0375074			
Aroclor-1242 (2) [2C]	A	250.00	211		0.0606586			
Aroclor-1242 (3) [2C]	A	250.00	293		0.0271407			
Aroclor-1242 (4) [2C]	A	250.00	301		0.0335995			
Decachlorobiphenyl	A	40.000	42.9	0.7333327	0.7865956		7.3	+/-20
Tetrachlorometaxylene	A	40.000	41.0	1.1336710	1.1624160		2.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	43.4	1.1358180	1.2315850		8.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	41.1	1.0966080	1.1256770		2.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221226.b/12262226ECD7.D
Data file 2: /221226.b/221226.b/12262226ECD7.D
Method: \\target\share\chem4\ecd7.i\221226.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242CCV3
Client ID:
Injection Date: 27-DEC-2022 00:36
Report Date: 12/29/2022 12:29
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.833	0.002	232975	5.709	0.002	150248	41.0	41.1	0.1	Tetrachloro-m-xylene
13.901	0.000	261158	14.127	0.000	218647	42.9	43.4	1.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	400846	-10.5
Hexabromobiphenyl	798898	664021	-16.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	266947	7.2
Hexabromobiphenyl	362541	355066	-2.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.288	0.001	30821	271.3	1	7.272	0.002	31289	276.9
Aroclor-1242	2	7.673	-0.002	100275	278.0	2	7.869	-0.000	50602	211.0
Aroclor-1242	3	8.420	-0.000	29087	280.2	3	9.166	-0.001	22641	292.6
Aroclor-1242	4	9.017	-0.001	49205	228.3	4	9.587	0.000	28029	301.4
Total Col1Ave (4 peaks):					264.4	Total Col2Ave (4 peaks):				270.5 RPD = 2
Corrected Ave (3 peaks):					259.2	Corrected Ave (3 peaks):				260.2 RPD = 0
CalAmt %D:					5.8	CalAmt %D:				8.2

Total PCB Area Col1 (5.931 - 13.801) = 928402 Col1 Total PCB = 0.2 ppm*

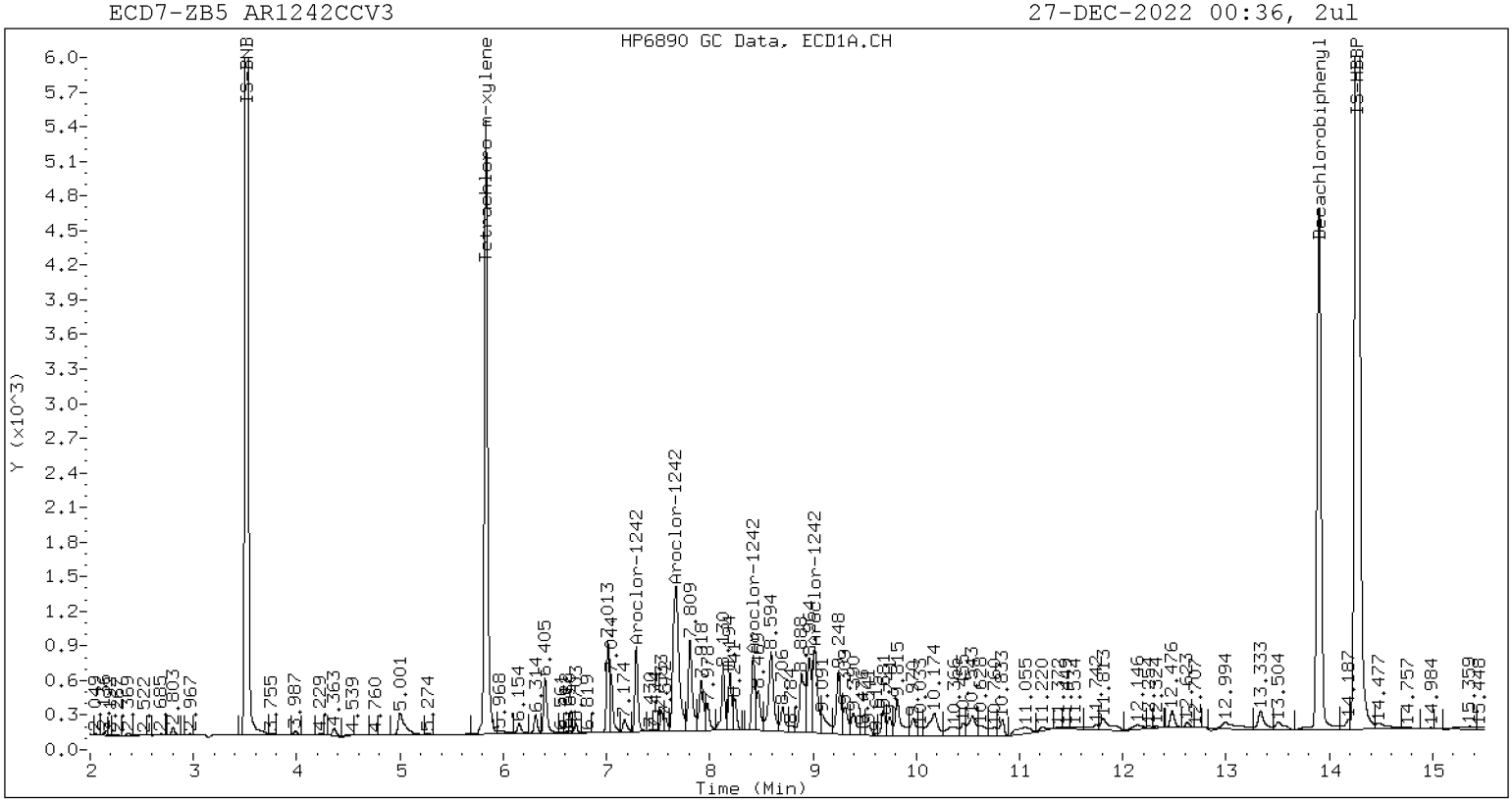
Total PCB Area Col2 (5.807 - 14.027) = 502265 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

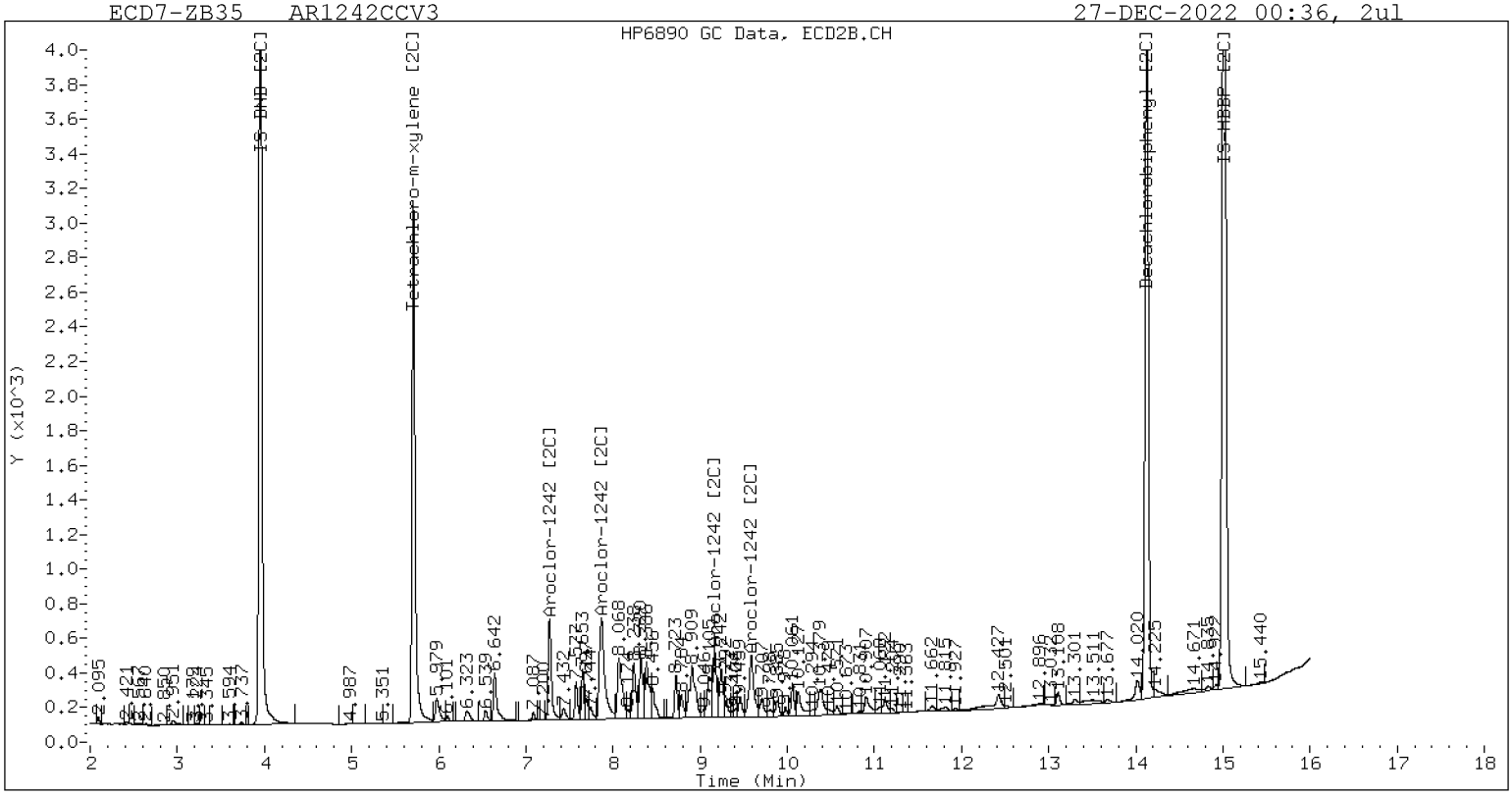
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV3 27-DEC-2022 00:36, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242CCV3 27-DEC-2022 00:36, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12262227ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0359	Injection Date:	12/27/22
Lab Sample ID:	SKL0359-CCV4	Injection Time:	00:57
Sequence Name:	AR1660CCV4		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	270	0.0441939	0.0474202		7.9	+/-20
Aroclor-1016 (1)	A	250.00	264	0.0266860	0.0282367		5.6	
Aroclor-1016 (2)	A	250.00	267	0.0861572	0.0920922		6.8	
Aroclor-1016 (3)	A	250.00	260	0.0390425	0.0406880		4.0	
Aroclor-1016 (4)	A	250.00	288	0.0248899	0.0286640		15.2	
Aroclor 1016 [2C]	A	250.00	246	0.0467310	0.0435169		-1.6	+/-20
Aroclor-1016 (1) [2C]	A	250.00	257	0.0409030	0.0419977		2.8	
Aroclor-1016 (2) [2C]	A	250.00	207	0.0882154	0.0731567		-17.2	
Aroclor-1016 (3) [2C]	A	250.00	243	0.0378846	0.0368676		-2.8	
Aroclor-1016 (4) [2C]	A	250.00	277	0.0199212	0.0220458		10.8	
Aroclor 1260	A	250.00	286	0.0390342	0.0442938		14.2	+/-20
Aroclor-1260 (1)	A	250.00	282	0.0291201	0.0327965		12.8	
Aroclor-1260 (2)	A	250.00	278	0.0301181	0.0334386		11.2	
Aroclor-1260 (3)	A	250.00	280	0.0791351	0.0886653		12.0	
Aroclor-1260 (4)	A	250.00	292	0.0403003	0.0470473		16.8	
Aroclor-1260 (5)	A	250.00	296	0.0164974	0.0195214		18.4	
Aroclor 1260 [2C]	A	250.00	230	0.0617619	0.0514477		-8.1	+/-20
Aroclor-1260 (1) [2C]	A	250.00	266	0.0422283	0.0450294		6.4	
Aroclor-1260 (2) [2C]	A	250.00	173	0.1059643	0.0732046		-30.8	
Aroclor-1260 (3) [2C]	A	250.00	284	0.0282173	0.0320954		13.6	
Aroclor-1260 (4) [2C]	A	250.00	196	0.0706376	0.0554615		-21.6	
Decachlorobiphenyl	A	40.000	46.6	0.7333327	0.8541772		16.5	+/-20
Tetrachlorometaxylene	A	40.000	42.9	1.1336710	1.2163950		7.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	44.4	1.1358180	1.2614200		11.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	42.3	1.0966080	1.1597510		5.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221226.b/12262227ECD7.D
Data file 2: /221226.b/221226.b/12262227ECD7.D
Method: \\target\share\chem4\ecd7.i\221226.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV4
Client ID:
Injection Date: 27-DEC-2022 00:57
Report Date: 12/29/2022 12:29
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.833	0.002	254156	5.709	0.002	160673	42.9	42.3	1.4	Tetrachloro-m-xylene
13.901	0.000	342045	14.127	-0.000	260407	46.6	44.4	4.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	417884	-6.6
Hexabromobiphenyl	798898	800876	0.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	277082	11.2
Hexabromobiphenyl	362541	412879	13.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.288	0.001	36874	264.5	1	7.271	0.001	36365	256.7
Aroclor-1016	2	7.674	-0.001	120262	267.2	2	7.867	-0.002	63345	207.3
Aroclor-1016	3	7.807	-0.001	53134	260.5	3	8.066	-0.000	31923	243.3
Aroclor-1016	4	8.420	-0.001	37432	287.9	4	8.237	-0.002	19089	276.7
Total Col1Ave (4 peaks):					270.0	Total Col2Ave (4 peaks):				246.0 RPD = 9
Corrected Ave (3 peaks):					264.1	Corrected Ave (3 peaks):				235.8 RPD = 11
CalAmt %D:					8.0	CalAmt %D:				-1.6
Aroclor-1260	1	11.051	-0.003	82081	281.6	1	11.660	-0.001	58099	266.6
Aroclor-1260	2	11.370	-0.002	83688	277.6	2	11.922	-0.002	94452	172.7
Aroclor-1260	3	11.742	-0.002	221906	280.1	3	12.441	-0.001	41411	284.4
Aroclor-1260	4	12.146	-0.002	117747	291.9	4	12.506	-0.002	71559	196.3
Aroclor-1260	5	12.252	-0.002	48857	295.8	NS	---			----
Total Col1Ave (5 peaks):					285.4	Total Col2Ave (4 peaks):				230.0 RPD = 21
Corrected Ave (4 peaks):					282.8	Corrected Ave (3 peaks):				211.9 RPD = 29
CalAmt %D:					14.2	CalAmt %D:				-8.0

Total PCB Area Col1 (5.931 - 13.801) = 2236590 Col1 Total PCB = 0.6 ppm*

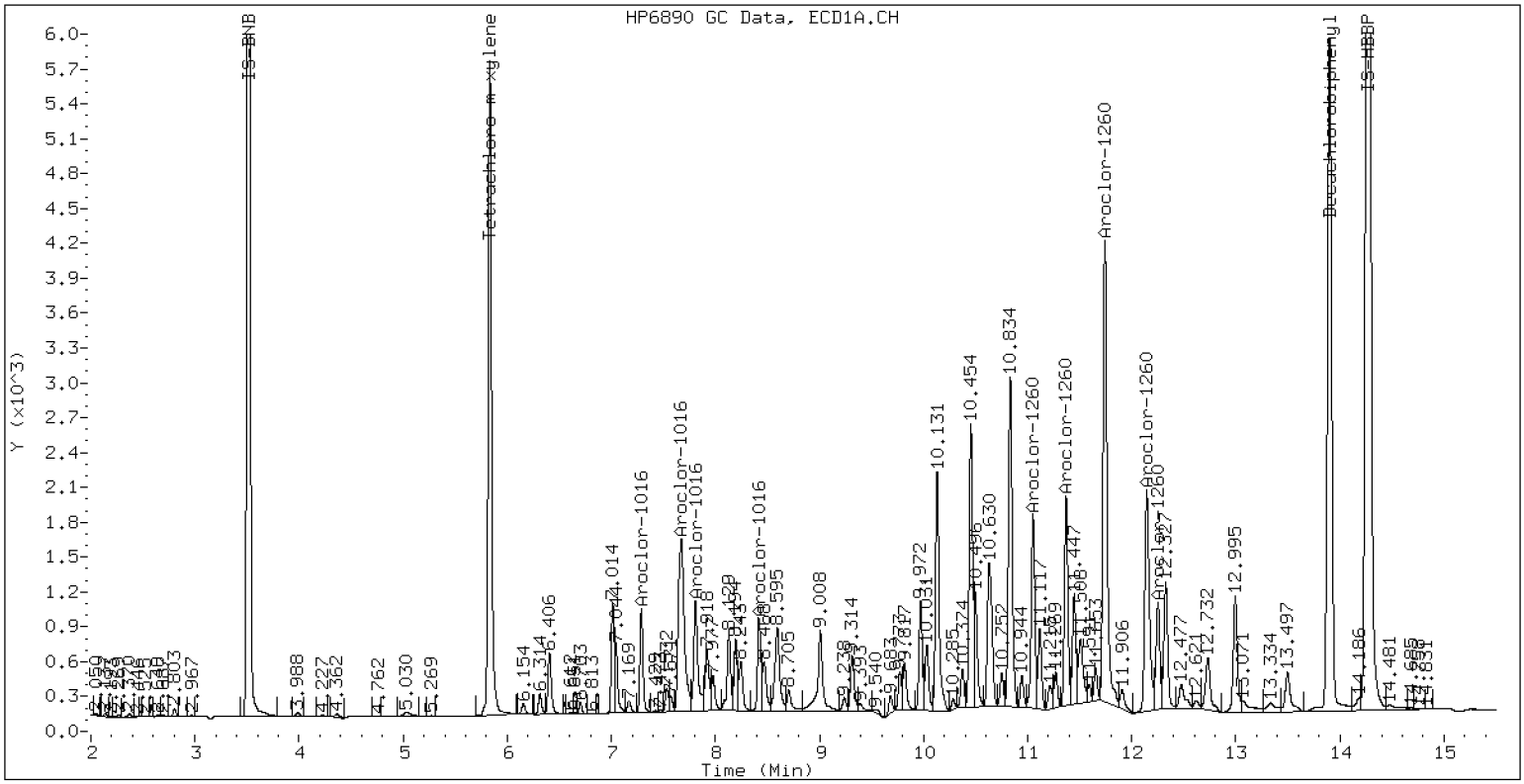
Total PCB Area Col2 (5.807 - 14.027) = 1268080 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

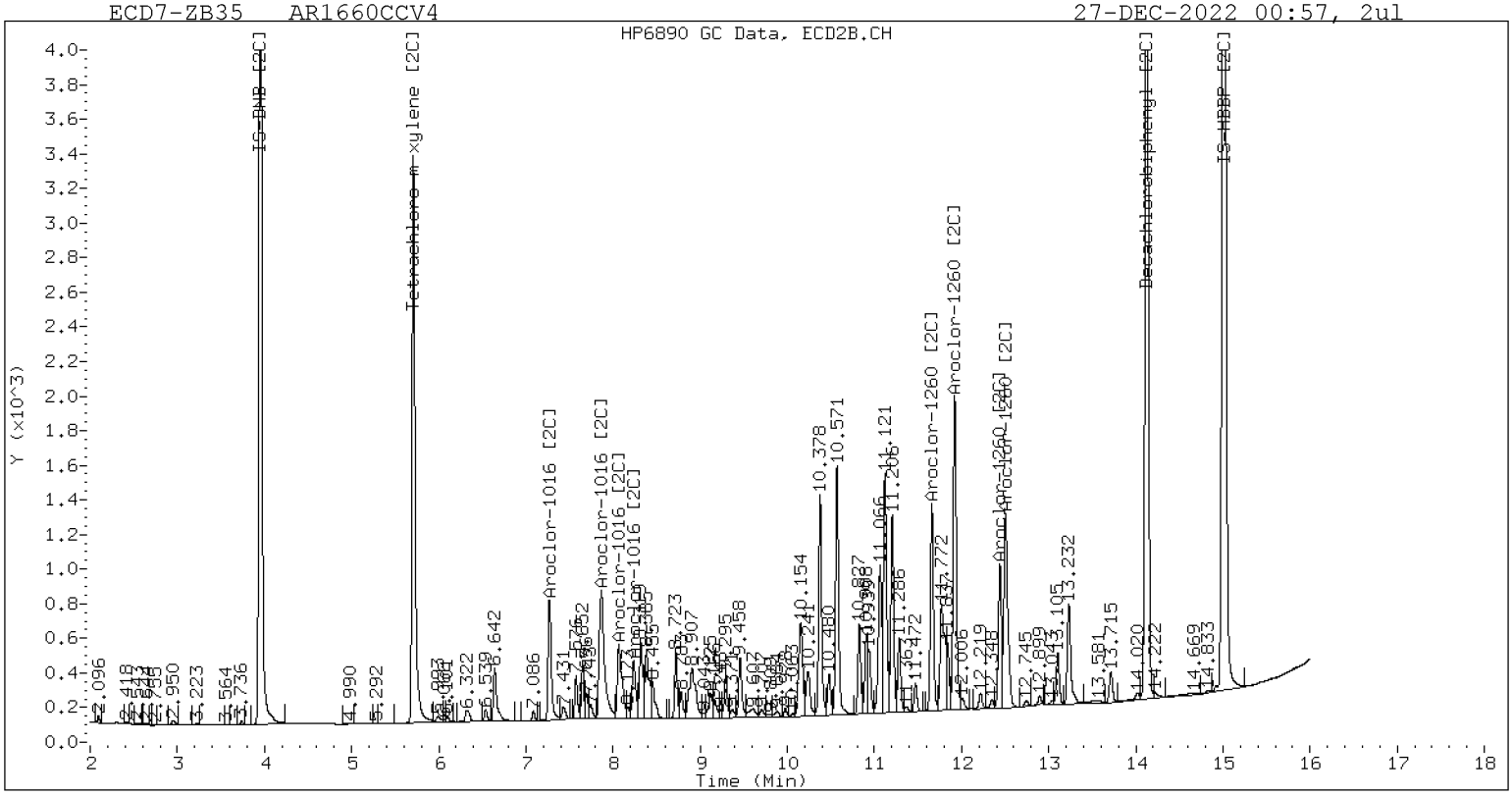
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV4 27-DEC-2022 00:57, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1660CCV4 27-DEC-2022 00:57, 2ul

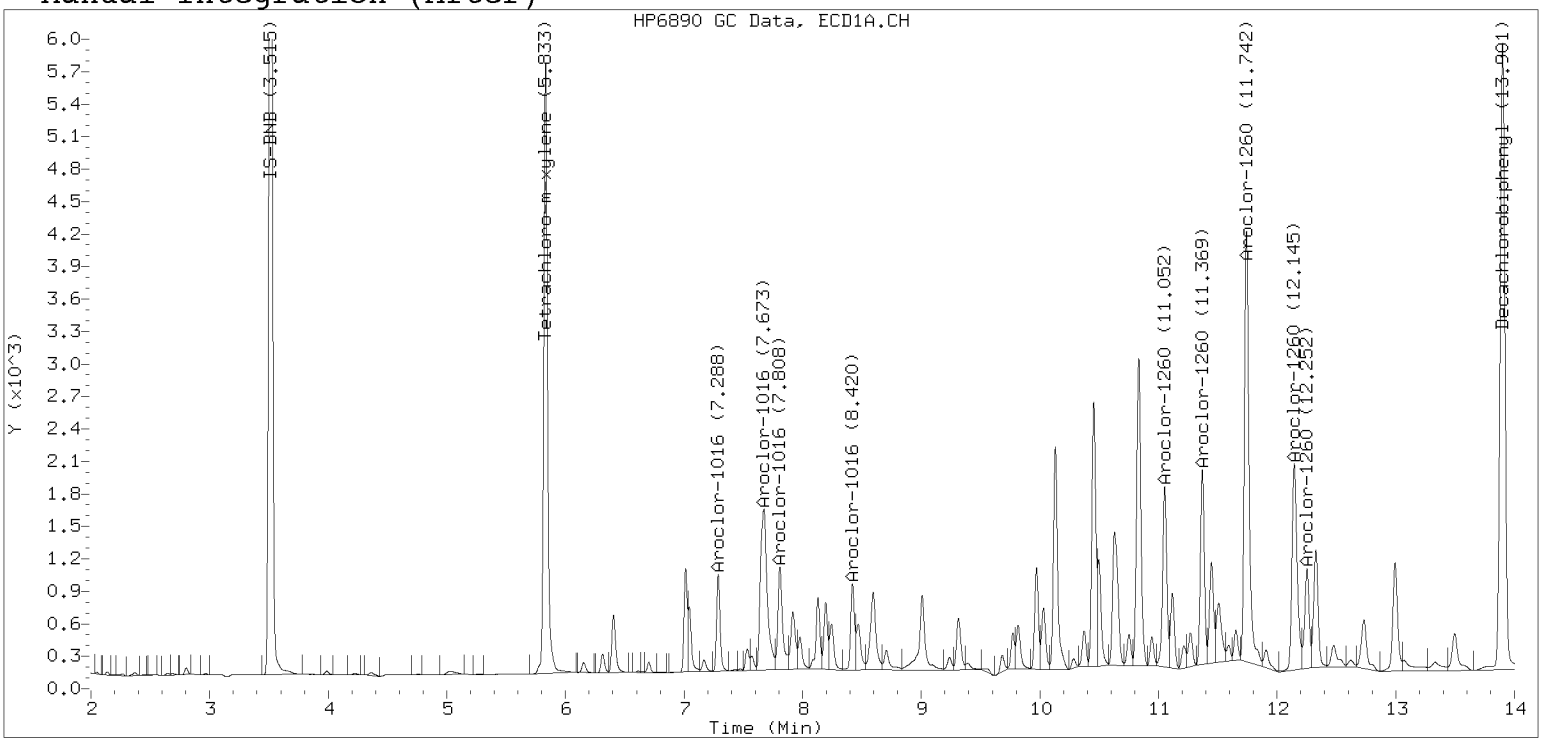


ZB-35 Manual Integration: NO

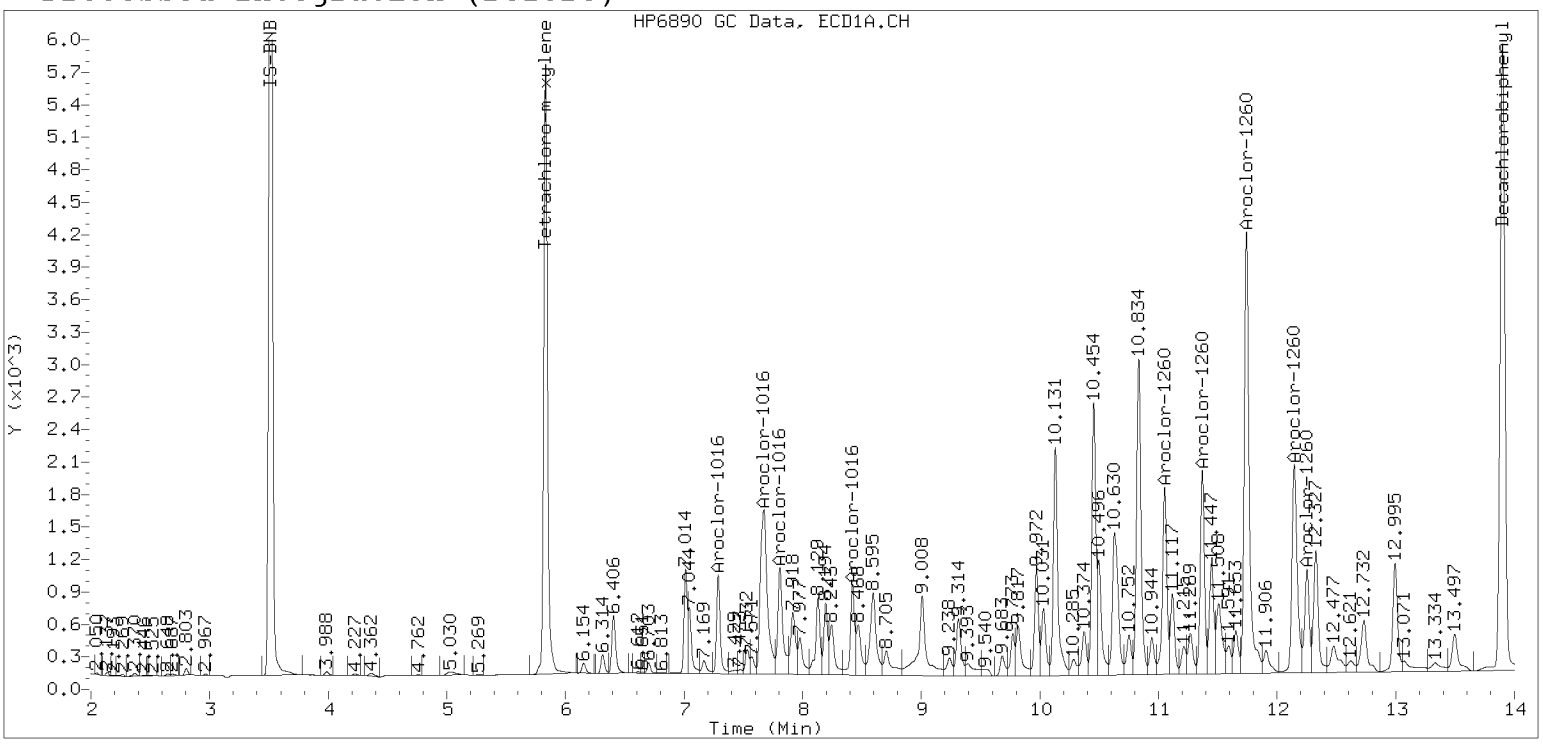
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221226.b/12262227ECD7.D Injection Date: 27-DEC-2022 00:57

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12262238ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0359	Injection Date:	12/27/22
Lab Sample ID:	SKL0359-CCV5	Injection Time:	04:52
Sequence Name:	AR1254CCV5		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1254	A	250.00	243	0.0576965	0.0561510		-2.7	+/-20
Aroclor-1254 (1)	A	250.00	242		0.0682910			
Aroclor-1254 (2)	A	250.00	280		0.0306775			
Aroclor-1254 (3)	A	250.00	239		0.0425352			
Aroclor-1254 (4)	A	250.00	285		0.0989006			
Aroclor-1254 (5)	A	250.00	170		0.0403505			
Aroclor 1254 [2C]	A	250.00	226	0.0638047	0.0590971		-9.7	+/-20
Aroclor-1254 (1) [2C]	A	250.00	230		0.0474725			
Aroclor-1254 (2) [2C]	A	250.00	153		0.0254517			
Aroclor-1254 (3) [2C]	A	250.00	214		0.0763461			
Aroclor-1254 (4) [2C]	A	250.00	269		0.0992961			
Aroclor-1254 (5) [2C]	A	250.00	263		0.0469193			
Decachlorobiphenyl	A	40.000	44.6	0.7333327	0.8186739		11.5	+/-20
Tetrachlorometaxylene	A	40.000	39.2	1.1336710	1.1097630		-2.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	43.0	1.1358180	1.2219160		7.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	38.4	1.0966080	1.0516020		-4.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221226.b/12262238ECD7.D
Data file 2: /221226.b/221226.b/12262238ECD7.D
Method: \\target\share\chem4\ecd7.i\221226.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254CCV5
Client ID:
Injection Date: 27-DEC-2022 04:52
Report Date: 12/29/2022 12:29
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.833	0.002	266828	5.709	0.002	166394	39.2	38.4	2.1	Tetrachloro-m-xylene
13.903	0.002	386094	14.127	0.000	280874	44.7	43.0	3.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	480874	7.4
Hexabromobiphenyl	798898	943218	18.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	316458	27.0
Hexabromobiphenyl	362541	459727	26.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1254	1	9.311	0.000	102623	242.4	1	9.458	0.000	46947	230.1
Aroclor-1254	2	9.389	0.000	46100	280.0	2	9.976	0.000	25170	153.4
Aroclor-1254	3	9.681	0.000	63919	239.0	3	10.126	0.000	75501	214.1
Aroclor-1254	4	9.816	0.000	148621	285.1	4	10.374	0.000	98197	268.9
Aroclor-1254	5	10.132	0.000	60636	169.7	5	10.572	0.000	46400	263.5
		Total Col1Ave (5 peaks):		243.2			Total Col2Ave (5 peaks):		226.0	RPD = 7
		Corrected Ave (4 peaks):		232.8			Corrected Ave (4 peaks):		215.3	RPD = 8
			CalAmt %D:	-2.7				CalAmt %D:	-9.6	

Total PCB Area Col1 (5.931 - 13.801) = 1706853 Col1 Total PCB = 0.4 ppm*

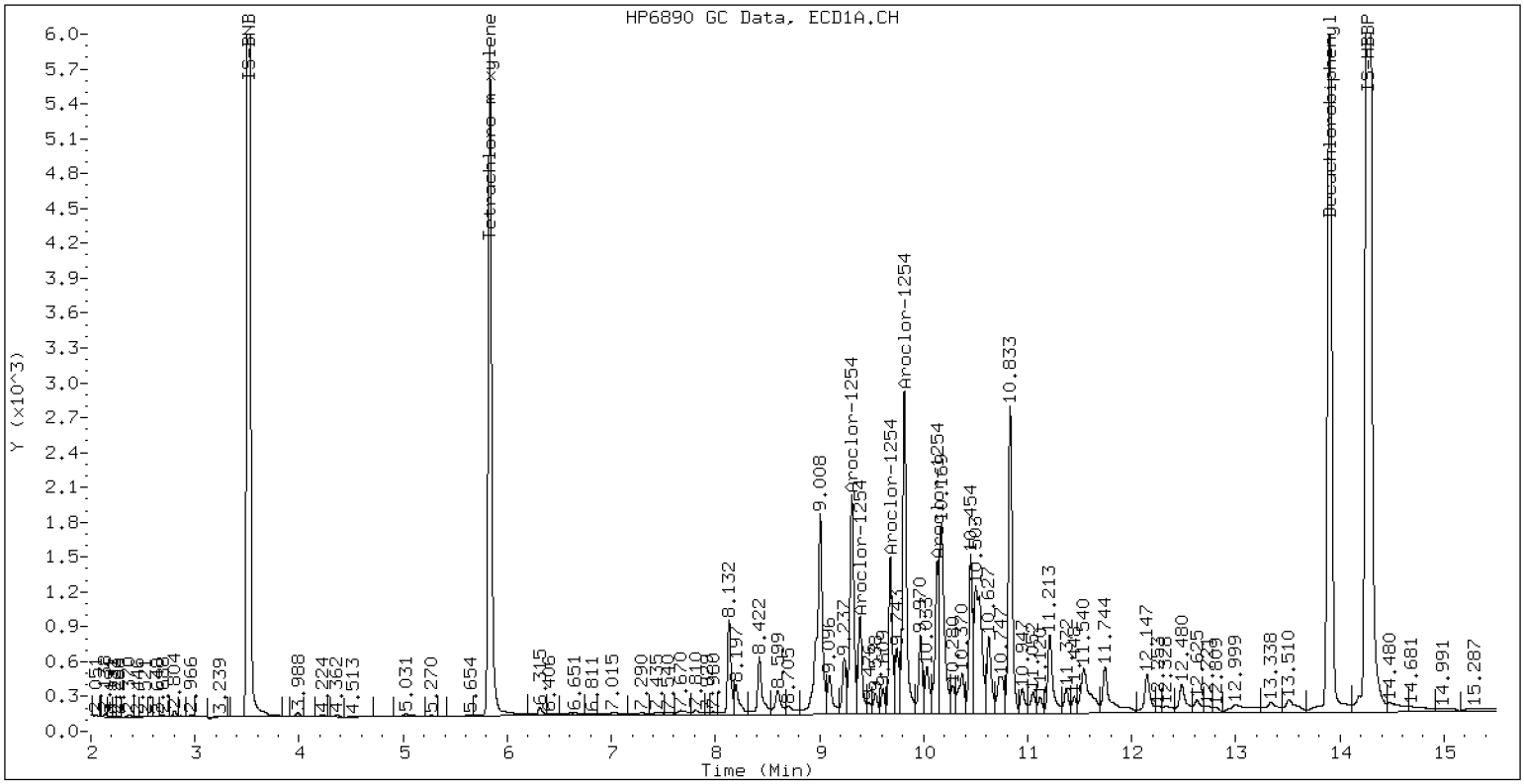
Total PCB Area Col2 (5.807 - 14.027) = 850557 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

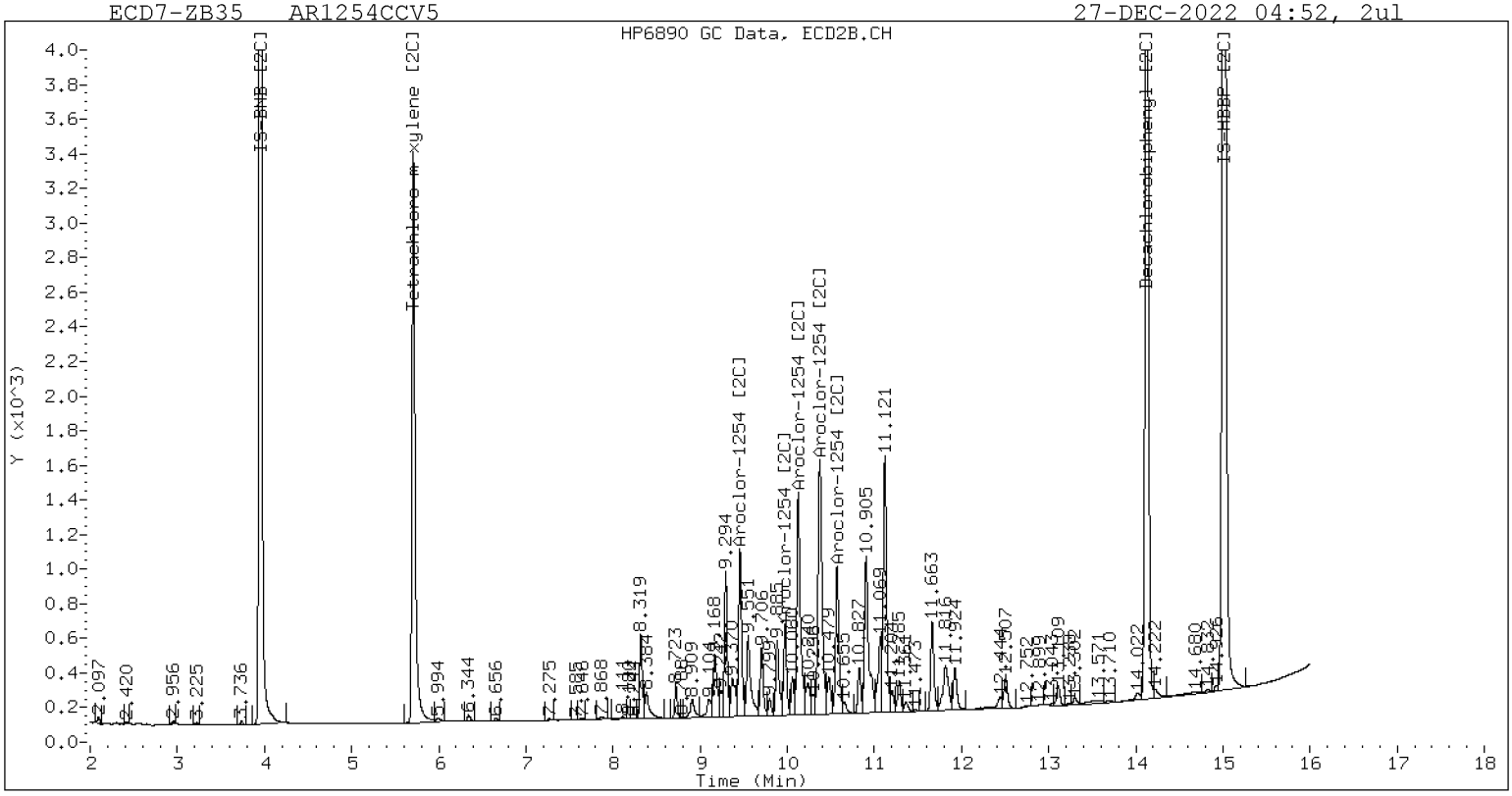
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254CCV5 27-DEC-2022 04:52, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1254CCV5 27-DEC-2022 04:52, 2ul

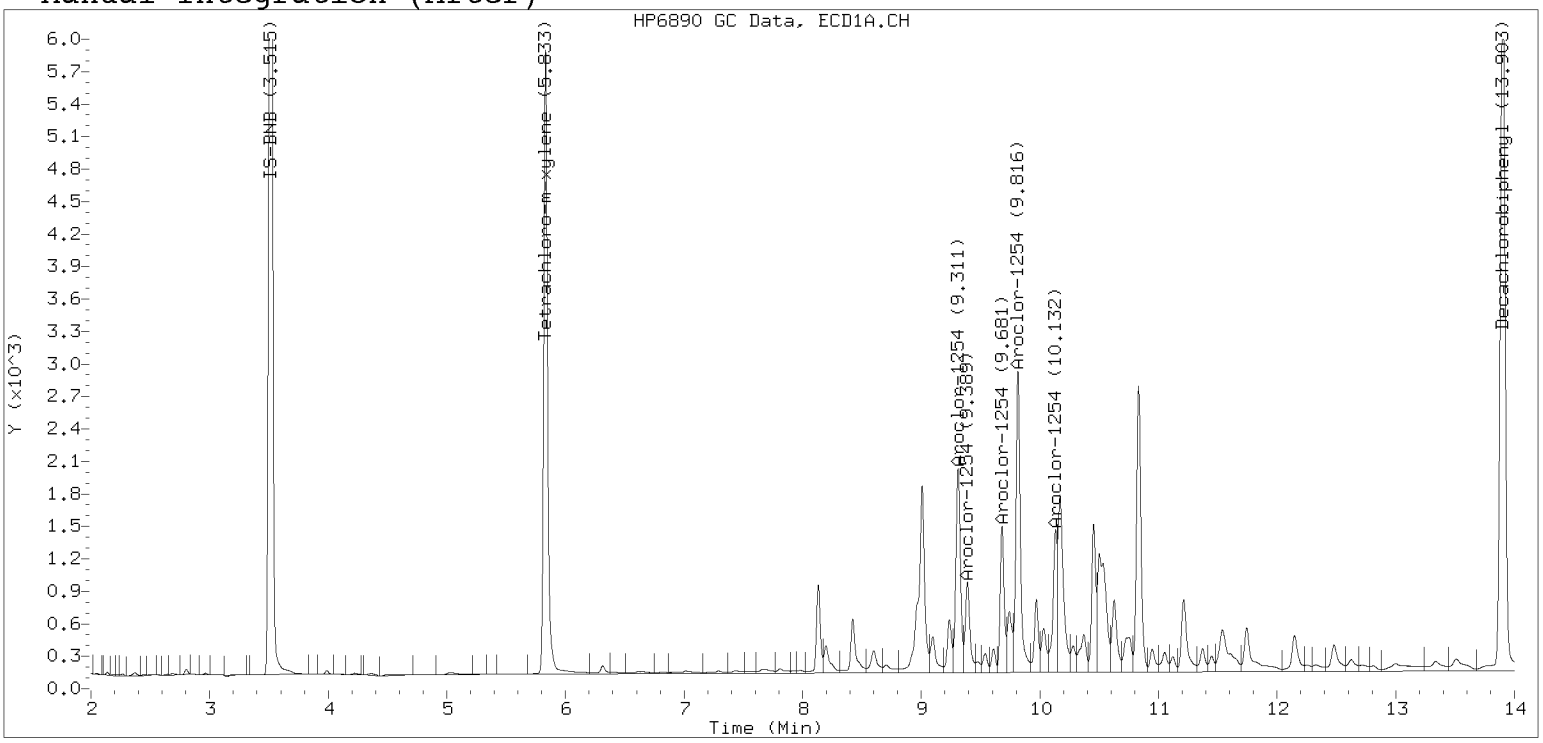


ZB-35 Manual Integration: NO

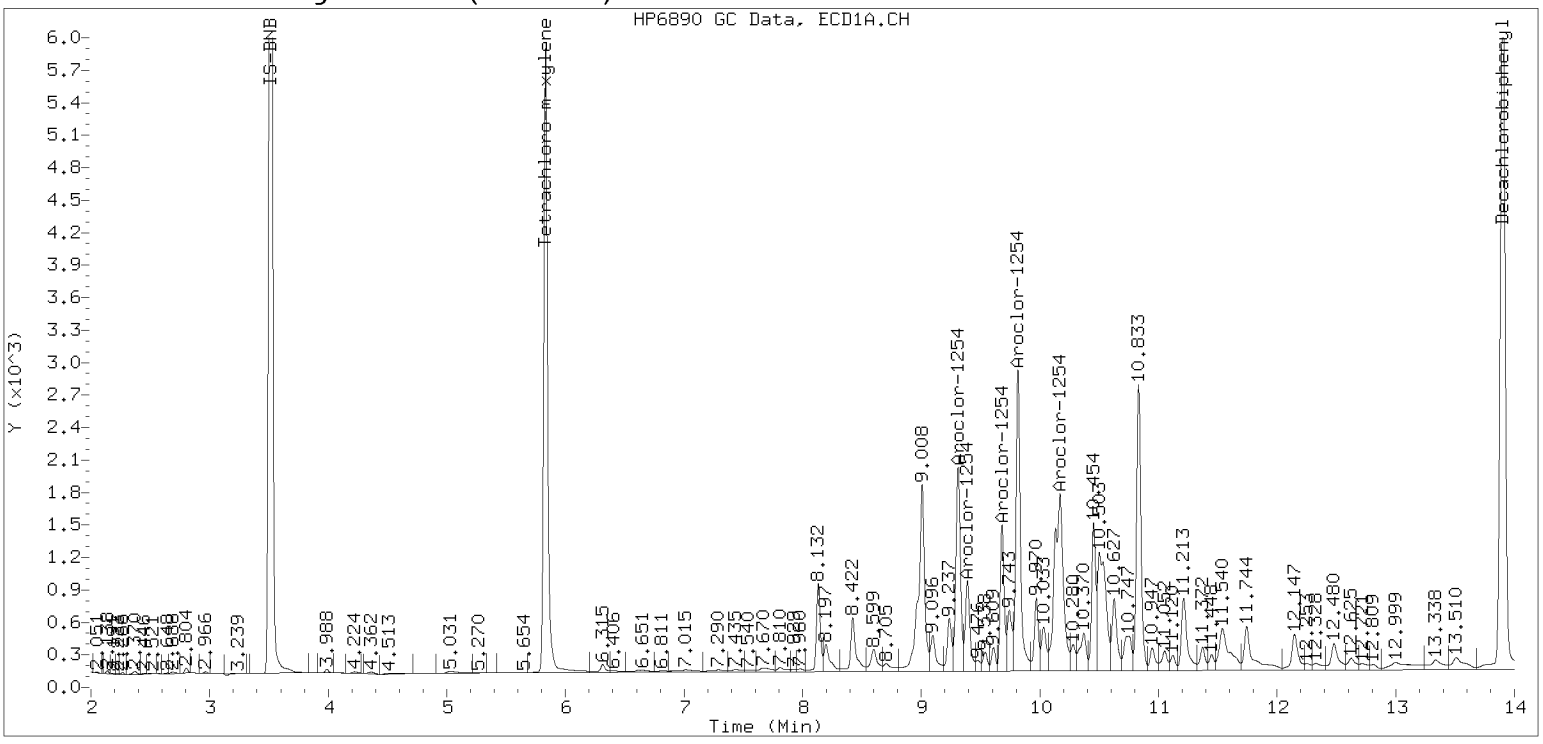
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221226.b/12262238ECD7.D Injection Date: 27-DEC-2022 04:52

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12262239ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0359	Injection Date:	12/27/22
Lab Sample ID:	SKL0359-CCV6	Injection Time:	05:14
Sequence Name:	AR1660CCV6		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	289	0.0441939	0.0503906		15.7	+/-20
Aroclor-1016 (1)	A	250.00	281	0.0266860	0.0300449		12.4	
Aroclor-1016 (2)	A	250.00	279	0.0861572	0.0960586		11.6	
Aroclor-1016 (3)	A	250.00	283	0.0390425	0.0441827		13.2	
Aroclor-1016 (4)	A	250.00	314	0.0248899	0.0312764		25.6	
Aroclor 1016 [2C]	A	250.00	252	0.0467310	0.0445026		0.8	+/-20
Aroclor-1016 (1) [2C]	A	250.00	264	0.0409030	0.0431304		5.6	
Aroclor-1016 (2) [2C]	A	250.00	211	0.0882154	0.0744672		-15.6	
Aroclor-1016 (3) [2C]	A	250.00	250	0.0378846	0.0378434		0.0	
Aroclor-1016 (4) [2C]	A	250.00	283	0.0199212	0.0225692		13.2	
Aroclor 1260	A	250.00	276	0.0390342	0.0429252		10.5	+/-20
Aroclor-1260 (1)	A	250.00	275	0.0291201	0.0320677		10.0	
Aroclor-1260 (2)	A	250.00	277	0.0301181	0.0333784		10.8	
Aroclor-1260 (3)	A	250.00	275	0.0791351	0.0869803		10.0	
Aroclor-1260 (4)	A	250.00	269	0.0403003	0.0433681		7.6	
Aroclor-1260 (5)	A	250.00	285	0.0164974	0.0188313		14.0	
Aroclor 1260 [2C]	A	250.00	218	0.0617619	0.0488337		-12.9	+/-20
Aroclor-1260 (1) [2C]	A	250.00	252	0.0422283	0.0426573		0.8	
Aroclor-1260 (2) [2C]	A	250.00	166	0.1059643	0.0704406		-33.6	
Aroclor-1260 (3) [2C]	A	250.00	270	0.0282173	0.0305375		8.0	
Aroclor-1260 (4) [2C]	A	250.00	183	0.0706376	0.0516993		-26.8	
Decachlorobiphenyl	A	40.000	44.8	0.7333327	0.8207672		12.0	+/-20
Tetrachlorometaxylene	A	40.000	43.1	1.1336710	1.2227580		7.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	43.2	1.1358180	1.2261840		8.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	41.4	1.0966080	1.1362330		3.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221226.b/12262239ECD7.D
Data file 2: /221226.b/221226.b/12262239ECD7.D
Method: \\target\share\chem4\ecd7.i\221226.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV6
Client ID:
Injection Date: 27-DEC-2022 05:14
Report Date: 12/29/2022 12:29
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.001	273248	5.707	-0.000	166048	43.1	41.4	4.0	Tetrachloro-m-xylene
13.902	0.002	405656	14.127	-0.001	288057	44.8	43.2	3.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	446937	-0.2
Hexabromobiphenyl	798898	988480	23.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	292278	17.3
Hexabromobiphenyl	362541	469843	29.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.287	0.000	41963	281.5	1	7.270	-0.000	39394	263.6
Aroclor-1016	2	7.671	-0.004	134163	278.7	2	7.867	-0.002	68016	211.0
Aroclor-1016	3	7.807	-0.001	61709	282.9	3	8.065	-0.002	34565	249.7
Aroclor-1016	4	8.420	-0.001	43683	314.1	4	8.236	-0.003	20614	283.2
Total Col1Ave (4 peaks):					289.3	Total Col2Ave (4 peaks):				251.9 RPD = 14
Corrected Ave (3 peaks):					281.0	Corrected Ave (3 peaks):				241.5 RPD = 15
CalAmt %D:					15.7	CalAmt %D:				0.8
Aroclor-1260	1	11.053	-0.002	99057	275.3	1	11.660	-0.001	62632	252.5
Aroclor-1260	2	11.370	-0.001	103106	277.1	2	11.922	-0.002	103425	166.2
Aroclor-1260	3	11.742	-0.002	268682	274.8	3	12.441	-0.001	44837	270.6
Aroclor-1260	4	12.146	-0.002	133964	269.0	4	12.505	-0.002	75908	183.0
Aroclor-1260	5	12.253	-0.002	58170	285.4	NS	---			----
Total Col1Ave (5 peaks):					276.3	Total Col2Ave (4 peaks):				218.1 RPD = 24
Corrected Ave (4 peaks):					274.0	Corrected Ave (3 peaks):				200.6 RPD = 31
CalAmt %D:					10.5	CalAmt %D:				-12.8

Total PCB Area Col1 (5.931 - 13.801) = 2805382 Col1 Total PCB = 0.7 ppm*

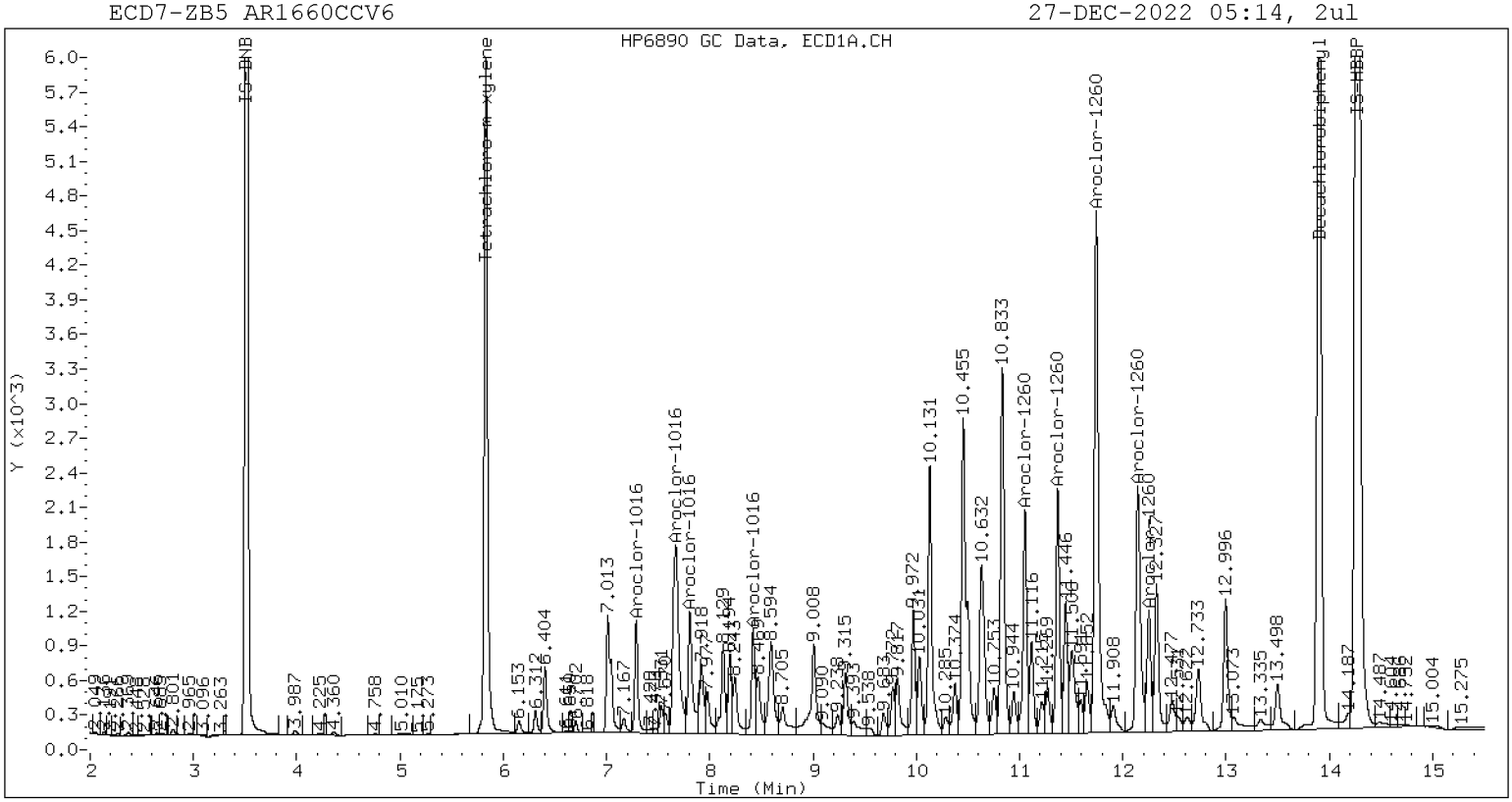
Total PCB Area Col2 (5.807 - 14.027) = 1359510 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

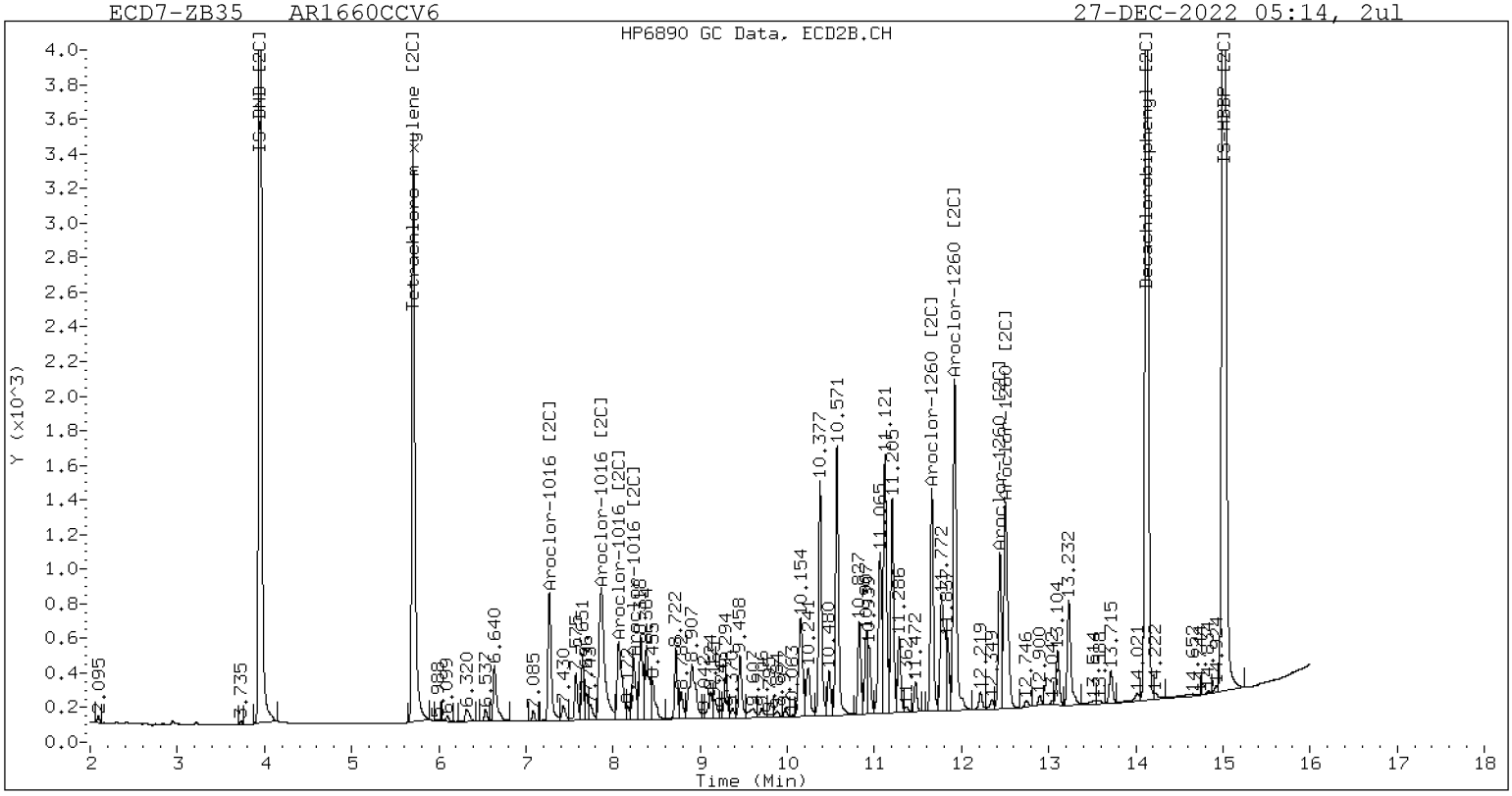
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV6 27-DEC-2022 05:14, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV6 27-DEC-2022 05:14, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12262254ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0359	Injection Date:	12/27/22
Lab Sample ID:	SKL0359-CCV7	Injection Time:	10:34
Sequence Name:	AR1248CCV7		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	223	0.0490062	0.0435244		-10.7	+/-20
Aroclor-1248 (1)	A	250.00	262		0.0361183			
Aroclor-1248 (2)	A	250.00	274		0.0481539			
Aroclor-1248 (3)	A	250.00	214		0.0677133			
Aroclor-1248 (4)	A	250.00	143		0.0221123			
Aroclor 1248 [2C]	A	250.00	249	0.0394876	0.0397156		-0.5	+/-20
Aroclor-1248 (1) [2C]	A	250.00	262		0.0343095			
Aroclor-1248 (2) [2C]	A	250.00	193		0.0265499			
Aroclor-1248 (3) [2C]	A	250.00	273		0.0456432			
Aroclor-1248 (4) [2C]	A	250.00	267		0.0523597			
Decachlorobiphenyl	A	40.000	42.7	0.7333327	0.7836150		6.8	+/-20
Tetrachlorometaxylene	A	40.000	38.4	1.1336710	1.0878600		-4.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	42.7	1.1358180	1.2135420		6.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	39.2	1.0966080	1.0735110		-2.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221226.b/12262254ECD7.D
Data file 2: /221226.b/221226.b/12262254ECD7.D
Method: \\target\share\chem4\ecd7.i\221226.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCV7
Client ID:
Injection Date: 27-DEC-2022 10:34
Report Date: 12/29/2022 12:30
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.833	0.002	268703	5.710	0.002	170598	38.4	39.2	2.0	Tetrachloro-m-xylene
13.902	0.001	401205	14.128	0.001	303400	42.7	42.7	0.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	494003	10.4
Hexabromobiphenyl	798898	1023985	28.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	317832	27.6
Hexabromobiphenyl	362541	500024	37.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.421	0.000	55758	262.5	1	8.319	0.000	34077	262.4
Aroclor-1248	2	8.596	0.000	74338	274.1	2	8.724	0.000	26370	193.1
Aroclor-1248	3	9.015	0.000	104533	214.3	3	9.169	0.000	45334	272.9
Aroclor-1248	4	9.308	0.000	34136	142.8	4	9.590	0.000	52005	266.7
Total Col1Ave (4 peaks):					223.4	Total Col2Ave (4 peaks):				248.8 RPD = 11
Corrected Ave (3 peaks):					206.5	Corrected Ave (3 peaks):				240.7 RPD = 15
CalAmt %D:					-10.6	CalAmt %D:				-0.5

Total PCB Area Col1 (5.931 - 13.801) = 1199659 Col1 Total PCB = 0.3 ppm*

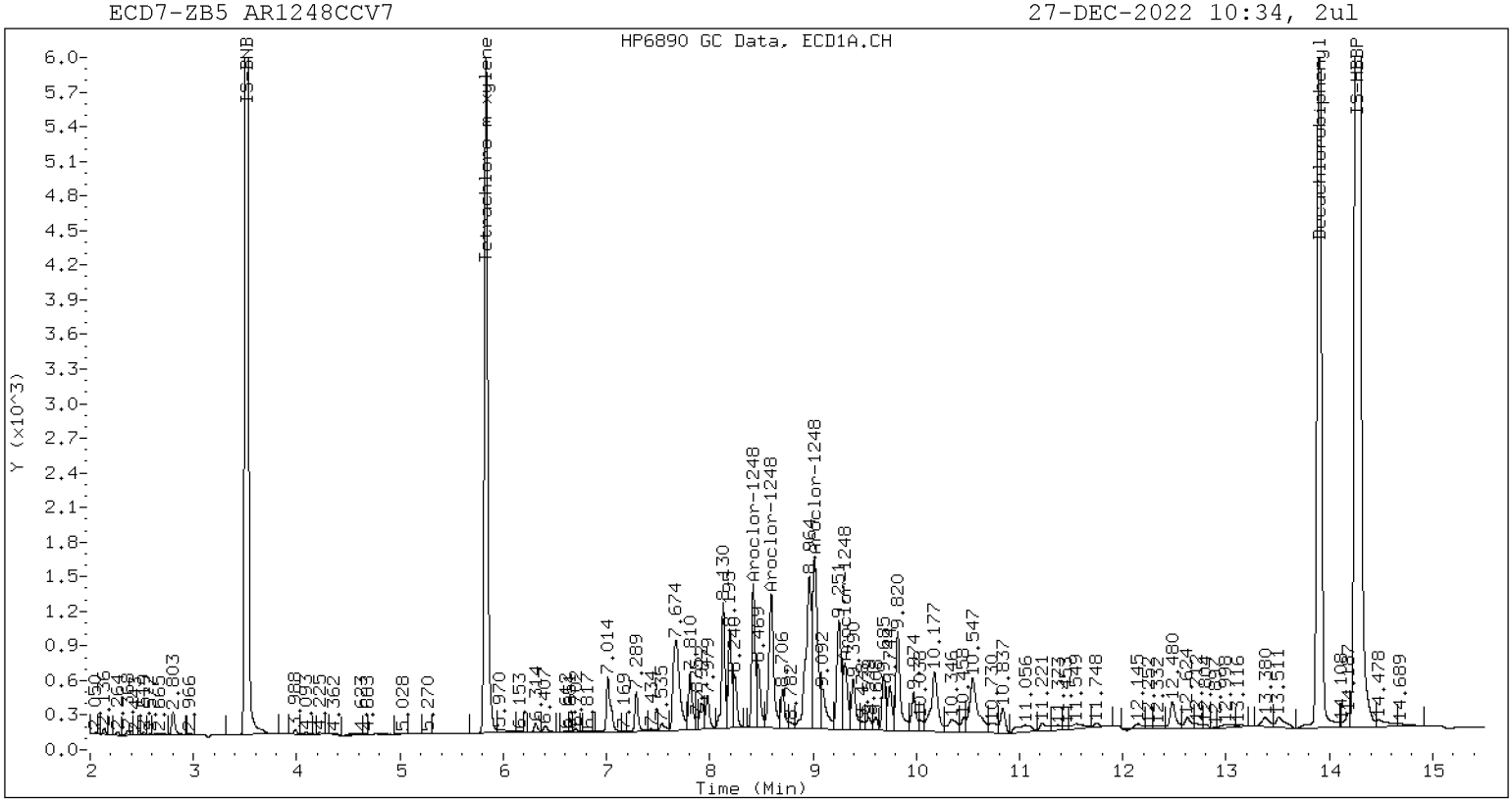
Total PCB Area Col2 (5.807 - 14.027) = 652545 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

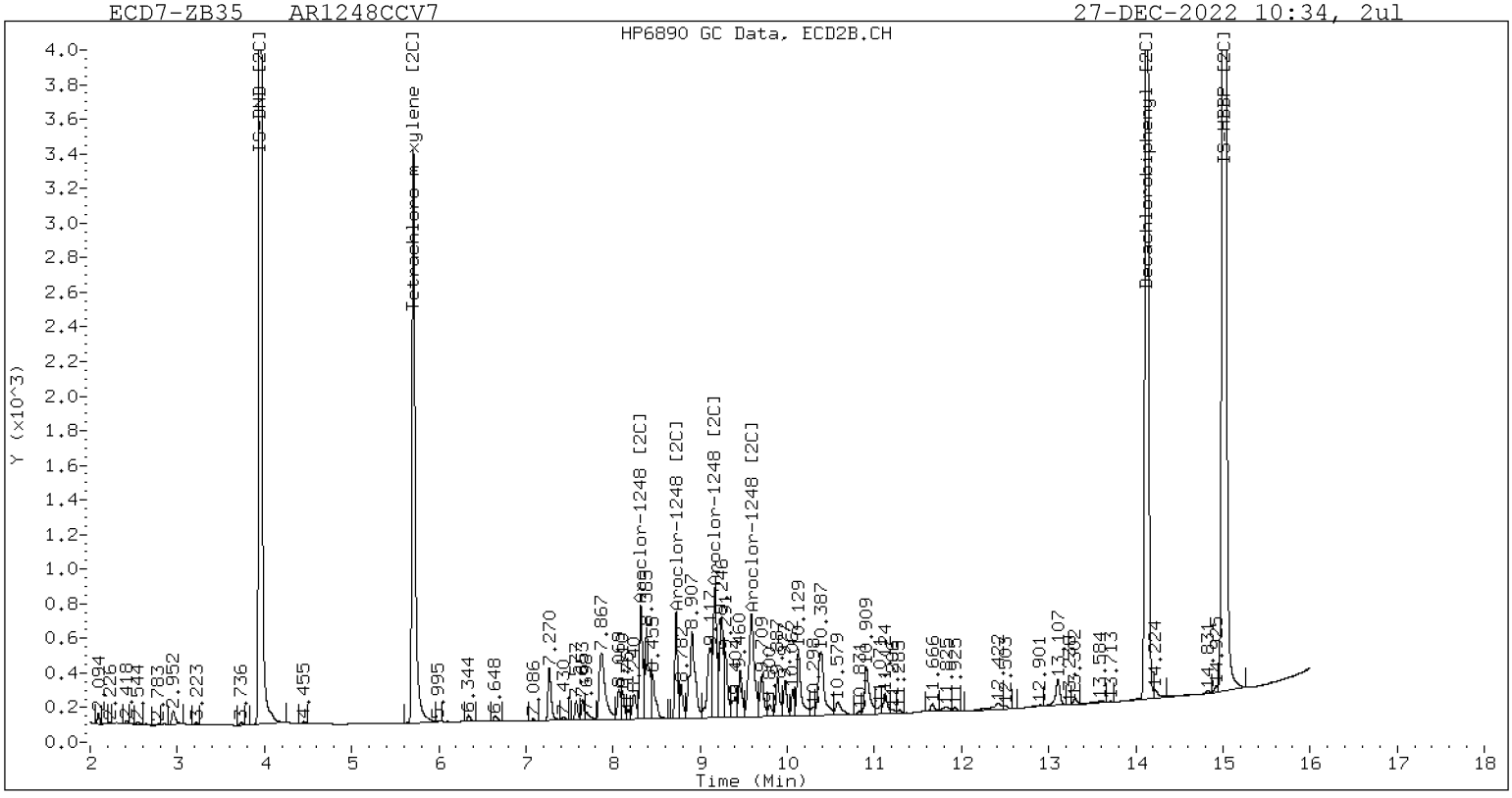
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV7 27-DEC-2022 10:34, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248CCV7 27-DEC-2022 10:34, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12262255ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0359	Injection Date:	12/27/22
Lab Sample ID:	SKL0359-CCV8	Injection Time:	10:56
Sequence Name:	AR1660CCV8		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	291	0.0441939	0.0505635		16.5	+/-20
Aroclor-1016 (1)	A	250.00	282	0.0266860	0.0300938		12.8	
Aroclor-1016 (2)	A	250.00	279	0.0861572	0.0960407		11.6	
Aroclor-1016 (3)	A	250.00	282	0.0390425	0.0440363		12.8	
Aroclor-1016 (4)	A	250.00	322	0.0248899	0.0320832		28.8	
Aroclor 1016 [2C]	A	250.00	242	0.0467310	0.0427631		-3.2	+/-20
Aroclor-1016 (1) [2C]	A	250.00	254	0.0409030	0.0415205		1.6	
Aroclor-1016 (2) [2C]	A	250.00	202	0.0882154	0.0714278		-19.2	
Aroclor-1016 (3) [2C]	A	250.00	240	0.0378846	0.0364010		-4.0	
Aroclor-1016 (4) [2C]	A	250.00	272	0.0199212	0.0217032		8.8	
Aroclor 1260	A	250.00	264	0.0390342	0.0409678		5.5	+/-20
Aroclor-1260 (1)	A	250.00	259	0.0291201	0.0301956		3.6	
Aroclor-1260 (2)	A	250.00	262	0.0301181	0.0315381		4.8	
Aroclor-1260 (3)	A	250.00	262	0.0791351	0.0830381		4.8	
Aroclor-1260 (4)	A	250.00	259	0.0403003	0.0418078		3.6	
Aroclor-1260 (5)	A	250.00	277	0.0164974	0.0182592		10.8	
Aroclor 1260 [2C]	A	250.00	213	0.0617619	0.0470979		-15.0	+/-20
Aroclor-1260 (1) [2C]	A	250.00	246	0.0422283	0.0416182		-1.6	
Aroclor-1260 (2) [2C]	A	250.00	155	0.1059643	0.0658123		-38.0	
Aroclor-1260 (3) [2C]	A	250.00	270	0.0282173	0.0304246		8.0	
Aroclor-1260 (4) [2C]	A	250.00	179	0.0706376	0.0505364		-28.4	
Decachlorobiphenyl	A	40.000	43.8	0.7333327	0.8026571		9.5	+/-20
Tetrachlorometaxylene	A	40.000	43.2	1.1336710	1.2243860		8.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	43.5	1.1358180	1.2360430		8.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	41.9	1.0966080	1.1497800		4.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221226.b/12262255ECD7.D
Data file 2: /221226.b/221226.b/12262255ECD7.D
Method: \\target\share\chem4\ecd7.i\221226.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV8
Client ID:
Injection Date: 27-DEC-2022 10:56
Report Date: 12/29/2022 12:30
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.001	284188	5.708	0.001	174029	43.2	41.9	3.0	Tetrachloro-m-xylene
13.901	0.001	439470	14.128	0.001	308020	43.8	43.5	0.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	464213	3.7
Hexabromobiphenyl	798898	1095038	37.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	302717	21.5
Hexabromobiphenyl	362541	498397	37.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	7.288	0.001	43656	281.9	1	7.270	0.001	39278	253.8	
Aroclor-1016	2	7.673	-0.002	139323	278.7	2	7.867	-0.001	67570	202.4	
Aroclor-1016	3	7.808	-0.000	63882	282.0	3	8.067	0.000	34435	240.2	
Aroclor-1016	4	8.420	-0.000	46542	322.3	4	8.237	-0.002	20531	272.4	
Total Col1Ave (4 peaks):					291.2	Total Col2Ave (4 peaks):				242.2	RPD = 18
Corrected Ave (3 peaks):					280.9	Corrected Ave (3 peaks):				232.1	RPD = 19
CalAmt %D:					16.5	CalAmt %D:				-3.1	
Aroclor-1260	1	11.053	-0.002	103329	259.2	1	11.660	-0.001	64820	246.4	
Aroclor-1260	2	11.370	-0.002	107923	261.8	2	11.922	-0.002	102502	155.3	
Aroclor-1260	3	11.742	-0.002	284156	262.3	3	12.441	-0.001	47386	269.6	
Aroclor-1260	4	12.145	-0.003	143066	259.4	4	12.506	-0.001	78710	178.9	
Aroclor-1260	5	12.252	-0.002	62483	276.7	NS	---			----	
Total Col1Ave (5 peaks):					263.9	Total Col2Ave (4 peaks):				212.5	RPD = 22
Corrected Ave (4 peaks):					260.7	Corrected Ave (3 peaks):				193.5	RPD = 30
CalAmt %D:					5.6	CalAmt %D:				-15.0	

Total PCB Area Col1 (5.931 - 13.801) = 2953059 Col1 Total PCB = 0.7 ppm*

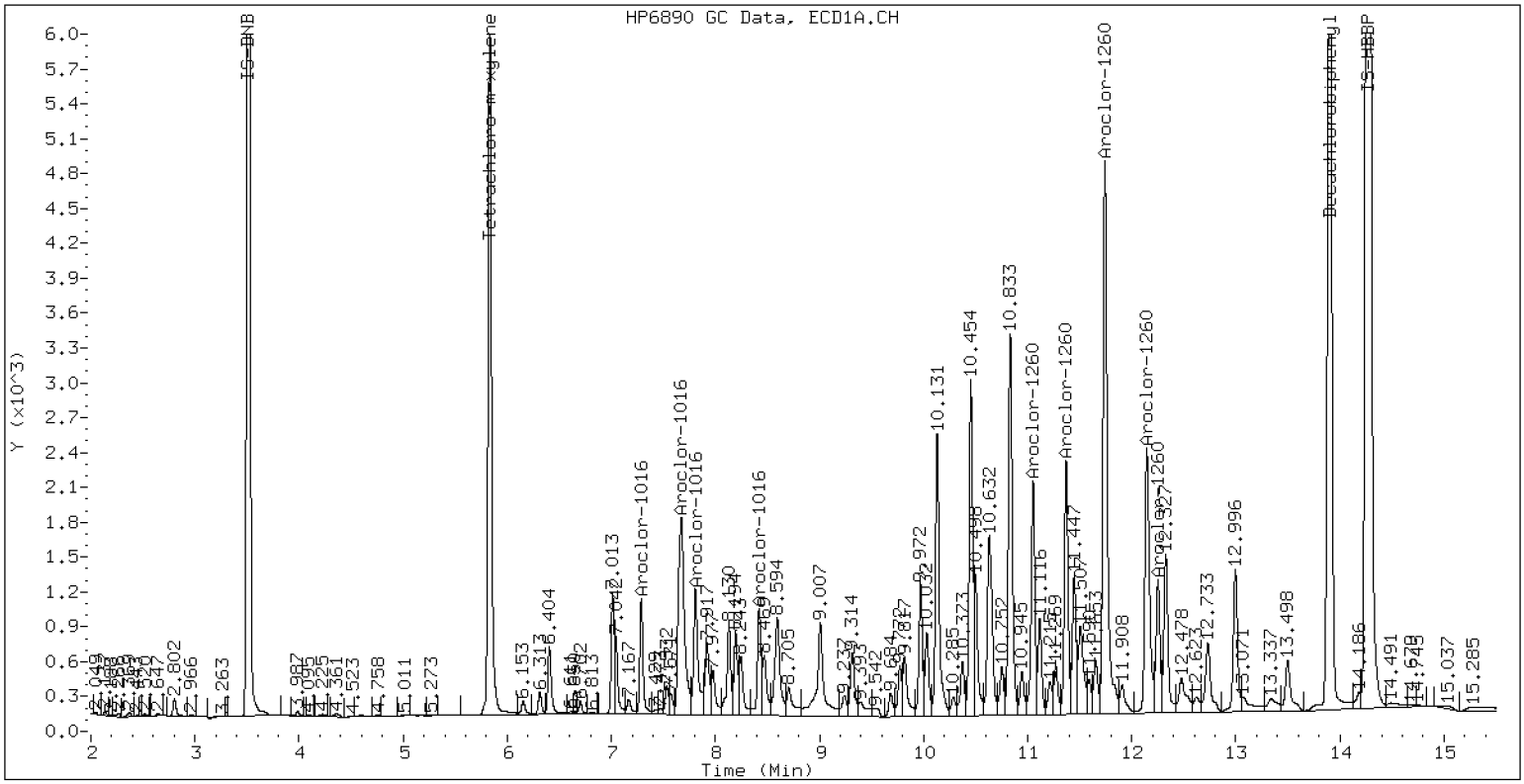
Total PCB Area Col2 (5.807 - 14.027) = 1385374 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

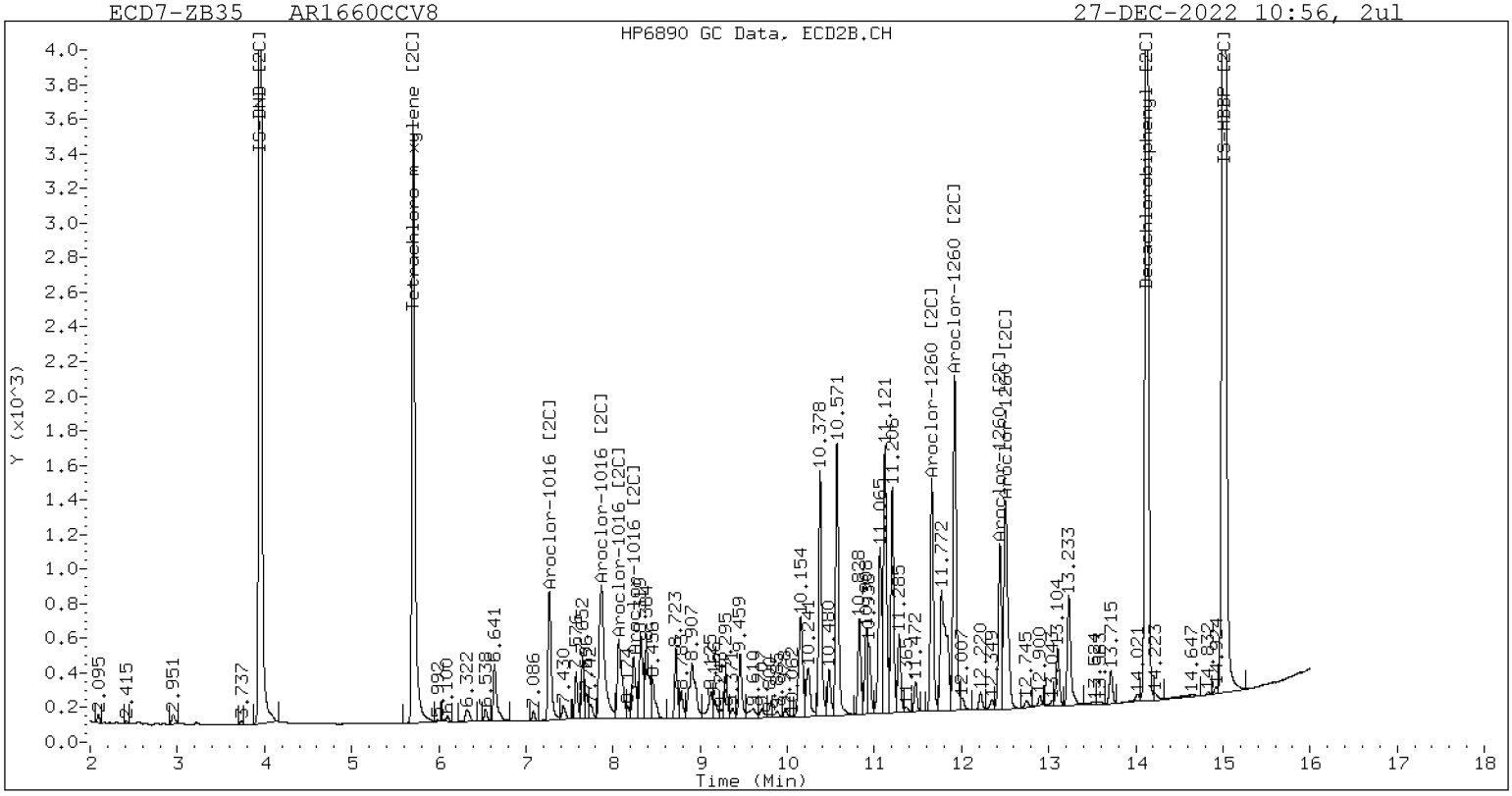
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV8 27-DEC-2022 10:56, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV8 27-DEC-2022 10:56, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12262268ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0359	Injection Date:	12/27/22
Lab Sample ID:	SKL0359-CCV9	Injection Time:	15:37
Sequence Name:	AR1242CCV9		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	268	0.0396000	0.0419977		7.0	+/-20
Aroclor-1242 (1)	A	250.00	263		0.0238699			
Aroclor-1242 (2)	A	250.00	261		0.0750605			
Aroclor-1242 (3)	A	250.00	280		0.0232259			
Aroclor-1242 (4)	A	250.00	266		0.0458346			
Aroclor 1242 [2C]	A	250.00	262	0.0391981	0.0384116		4.9	+/-20
Aroclor-1242 (1) [2C]	A	250.00	262		0.0354485			
Aroclor-1242 (2) [2C]	A	250.00	204		0.0585524			
Aroclor-1242 (3) [2C]	A	250.00	287		0.0266304			
Aroclor-1242 (4) [2C]	A	250.00	296		0.0330150			
Decachlorobiphenyl	A	40.000	43.0	0.7333327	0.7882350		7.5	+/-20
Tetrachlorometaxylene	A	40.000	39.5	1.1336710	1.1184480		-1.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.5	1.1358180	1.1776150		3.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	39.5	1.0966080	1.0822200		-1.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221226.b/12262268ECD7.D
Data file 2: /221226.b/221226.b/12262268ECD7.D
Method: \\target\share\chem4\ecd7.i\221226.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242CCV9
Client ID:
Injection Date: 27-DEC-2022 15:37
Report Date: 12/29/2022 12:30
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.001	200634	5.708	0.000	128795	39.5	39.5	0.0	Tetrachloro-m-xylene
13.901	0.001	238715	14.127	-0.000	193491	43.0	41.5	3.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	358772	-19.9
Hexabromobiphenyl	798898	605695	-24.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	238020	-4.4
Hexabromobiphenyl	362541	328615	-9.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.287	0.000	26762	263.2	1	7.270	0.000	26367	261.7
Aroclor-1242	2	7.675	0.000	84155	260.6	2	7.869	0.000	43552	203.7
Aroclor-1242	3	8.421	0.000	26040	280.3	3	9.167	0.000	19808	287.1
Aroclor-1242	4	9.018	0.000	51388	266.4	4	9.587	0.000	24557	296.1
Total Col1Ave (4 peaks):					267.6	Total Col2Ave (4 peaks):				262.2 RPD = 2
Corrected Ave (3 peaks):					263.4	Corrected Ave (3 peaks):				250.8 RPD = 5
CalAmt %D:					7.1	CalAmt %D:				4.9

Total PCB Area Col1 (5.931 - 13.801) = 808717 Col1 Total PCB = 0.2 ppm*

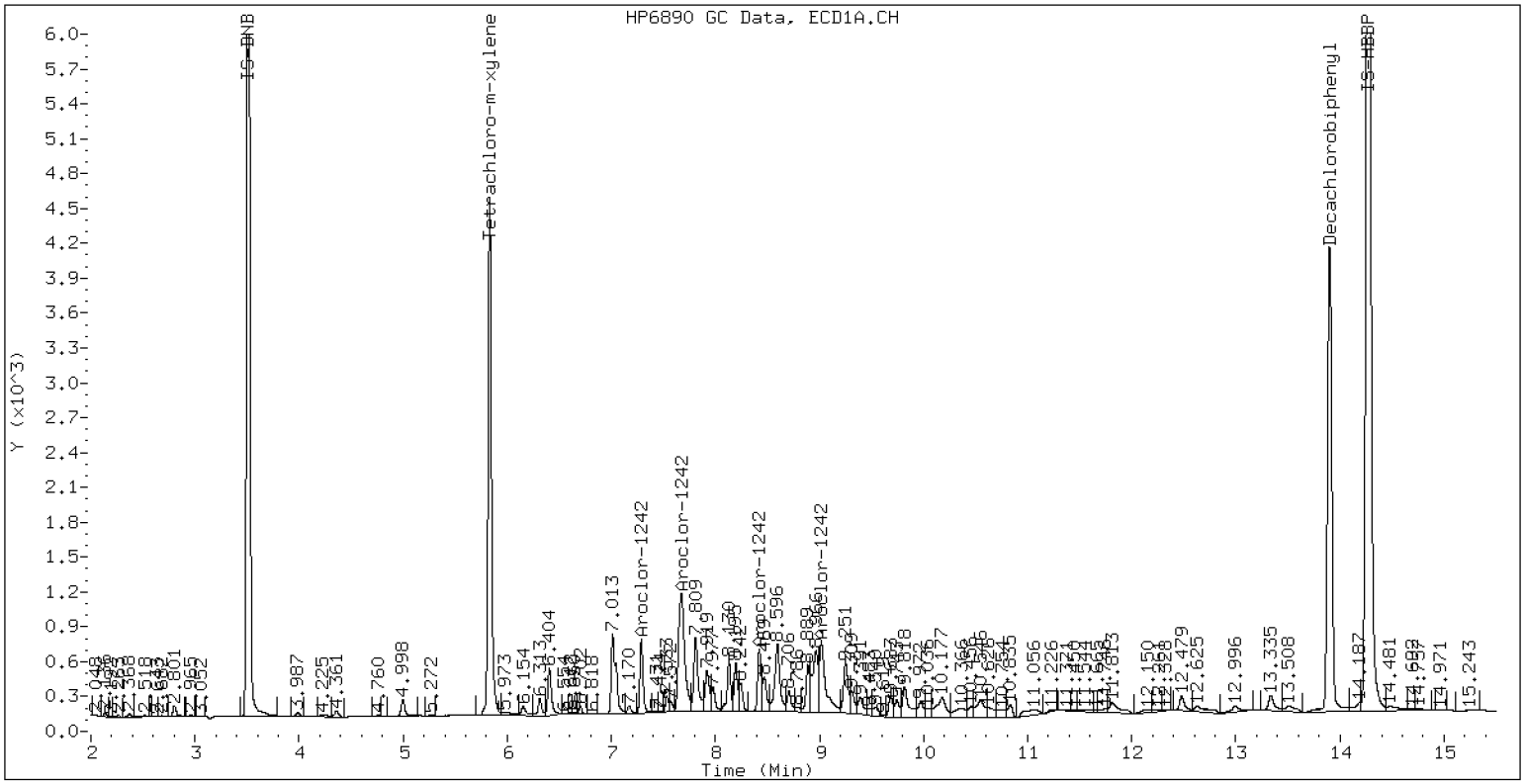
Total PCB Area Col2 (5.807 - 14.027) = 413822 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

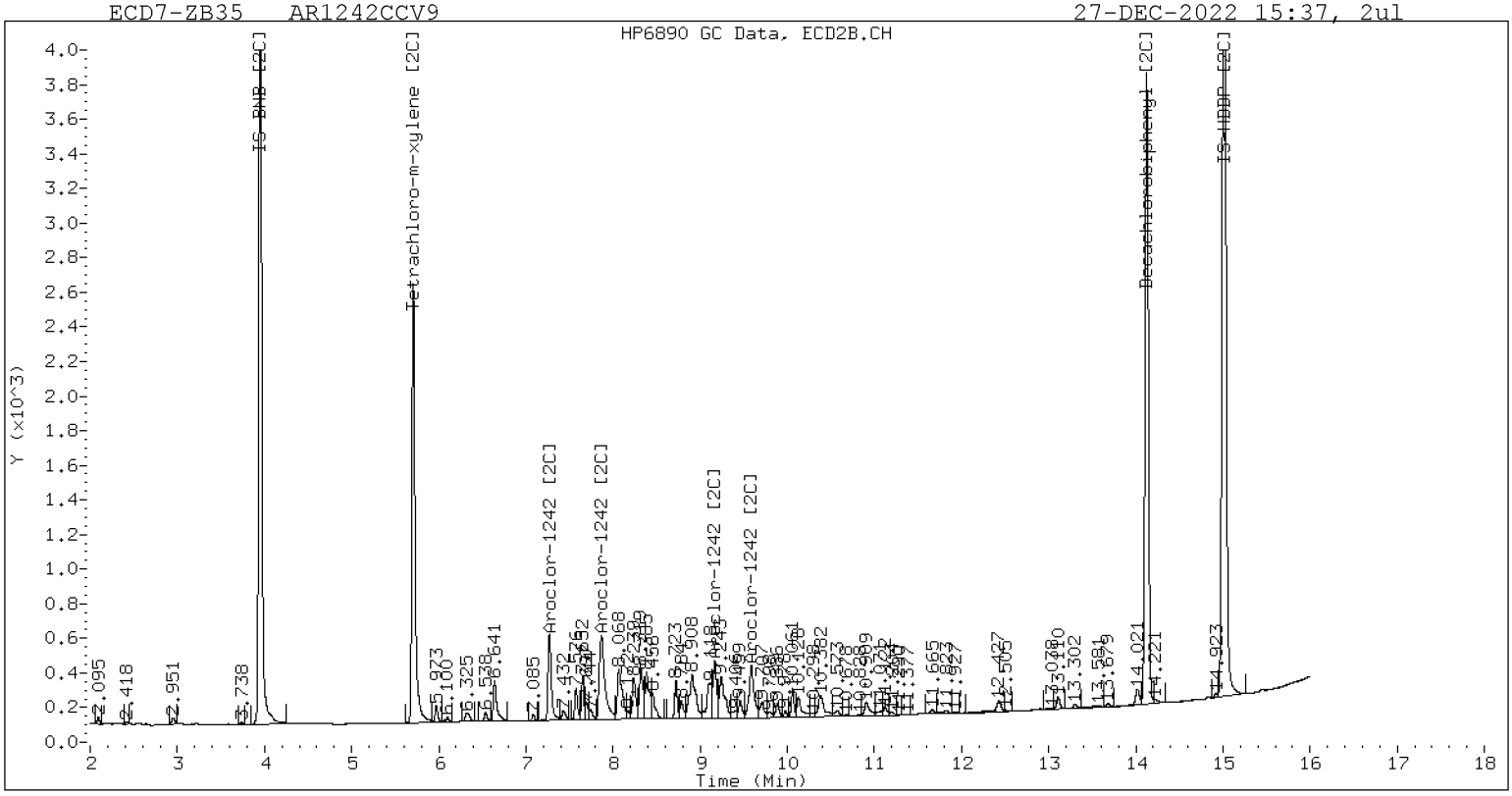
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV9 27-DEC-2022 15:37, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1242CCV9 27-DEC-2022 15:37, 2ul

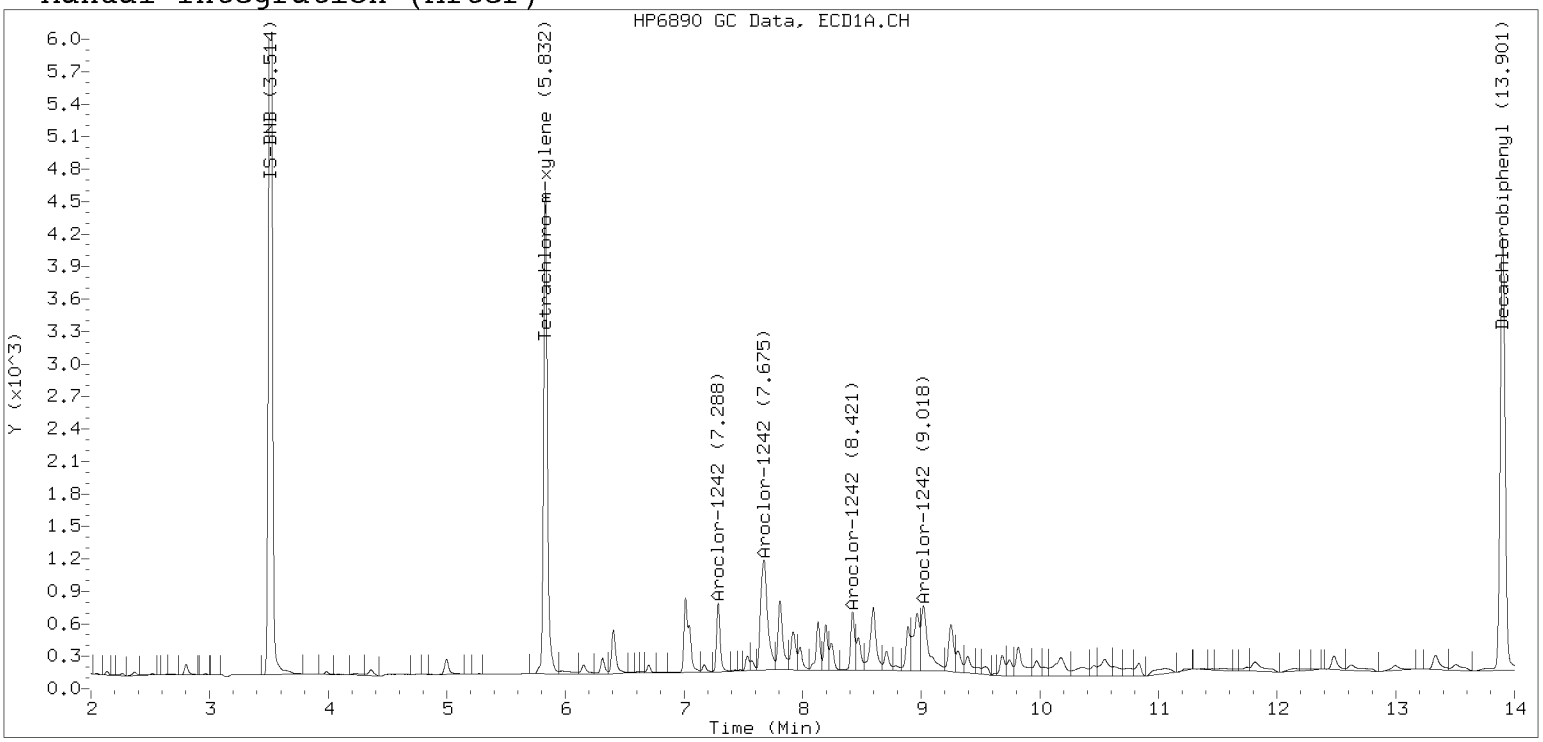


ZB-35 Manual Integration: NO

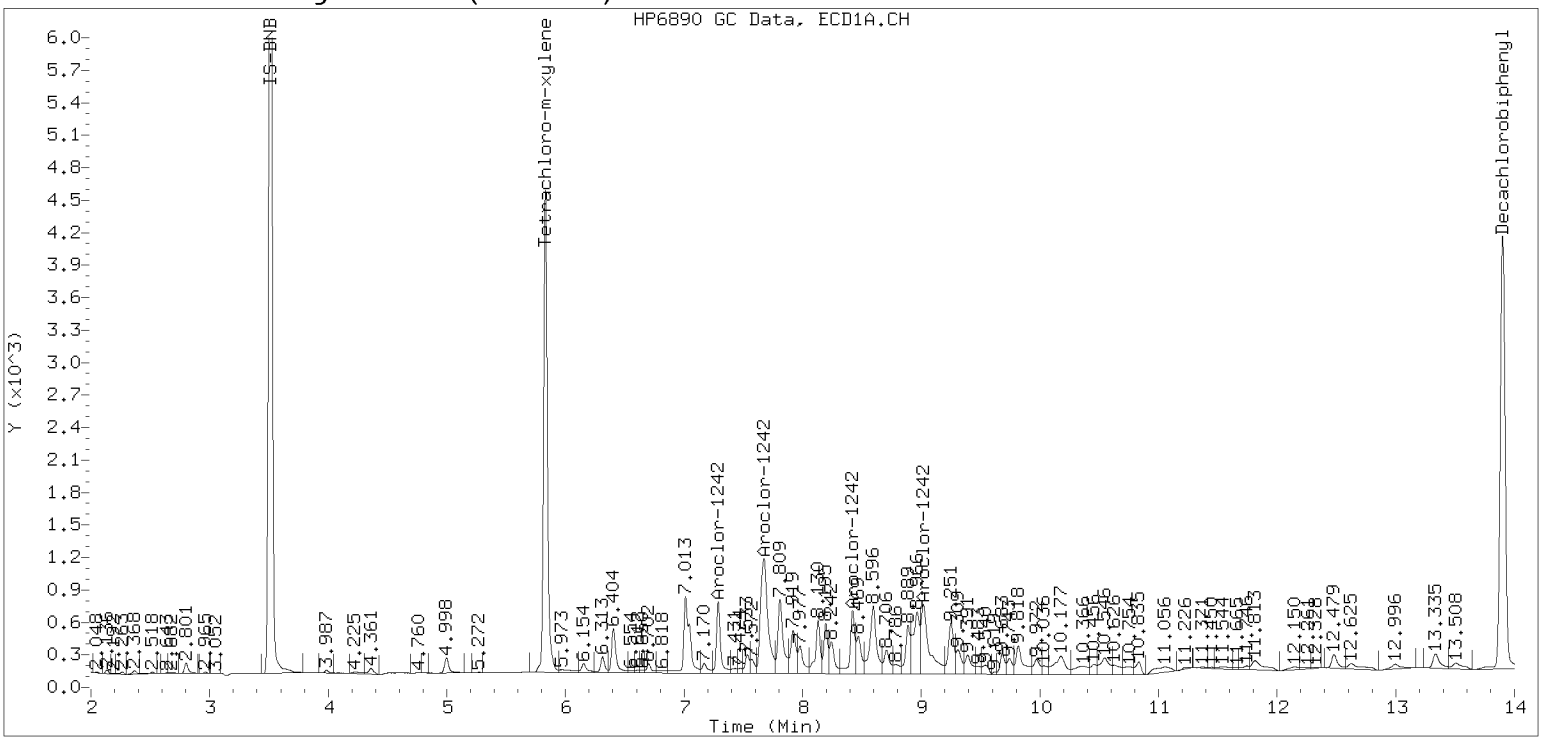
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221226.b/12262268ECD7.D Injection Date: 27-DEC-2022 15:37

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12262269ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0359	Injection Date:	12/27/22
Lab Sample ID:	SKL0359-CCVA	Injection Time:	15:58
Sequence Name:	AR1660CCVA		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	271	0.0441939	0.0471279		8.5	+/-20
Aroclor-1016 (1)	A	250.00	282	0.0266860	0.0300578		12.8	
Aroclor-1016 (2)	A	250.00	260	0.0861572	0.0898069		4.0	
Aroclor-1016 (3)	A	250.00	258	0.0390425	0.0402823		3.2	
Aroclor-1016 (4)	A	250.00	285	0.0248899	0.0283644		14.0	
Aroclor 1016 [2C]	A	250.00	252	0.0467310	0.0449231		0.7	+/-20
Aroclor-1016 (1) [2C]	A	250.00	261	0.0409030	0.0427304		4.4	
Aroclor-1016 (2) [2C]	A	250.00	218	0.0882154	0.0769497		-12.8	
Aroclor-1016 (3) [2C]	A	250.00	250	0.0378846	0.0378778		0.0	
Aroclor-1016 (4) [2C]	A	250.00	278	0.0199212	0.0221345		11.2	
Aroclor 1260	A	250.00	290	0.0390342	0.0446069		16.0	+/-20
Aroclor-1260 (1)	A	250.00	273	0.0291201	0.0317570		9.2	
Aroclor-1260 (2)	A	250.00	278	0.0301181	0.0335025		11.2	
Aroclor-1260 (3)	A	250.00	278	0.0791351	0.0879427		11.2	
Aroclor-1260 (4)	A	250.00	302	0.0403003	0.0487597		20.8	
Aroclor-1260 (5)	A	250.00	319	0.0164974	0.0210726		27.6	
Aroclor 1260 [2C]	A	250.00	231	0.0617619	0.0527400		-7.8	+/-20
Aroclor-1260 (1) [2C]	A	250.00	257	0.0422283	0.0434875		2.8	
Aroclor-1260 (2) [2C]	A	250.00	183	0.1059643	0.0775950		-26.8	
Aroclor-1260 (3) [2C]	A	250.00	274	0.0282173	0.0309705		9.6	
Aroclor-1260 (4) [2C]	A	250.00	208	0.0706376	0.0589069		-16.8	
Decachlorobiphenyl	A	40.000	47.2	0.7333327	0.8646371		18.0	+/-20
Tetrachlorometaxylene	A	40.000	43.2	1.1336710	1.2257690		8.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	42.8	1.1358180	1.2146820		7.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	42.5	1.0966080	1.1647090		6.3	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221226.b/12262269ECD7.D
Data file 2: /221226.b/221226.b/12262269ECD7.D
Method: \\target\share\chem4\ecd7.i\221226.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCVA
Client ID:
Injection Date: 27-DEC-2022 15:58
Report Date: 12/29/2022 12:30
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	0.000	178122	5.707	0.000	111907	43.2	42.5	1.8	Tetrachloro-m-xylene
13.901	0.000	238789	14.127	0.000	181400	47.2	42.8	9.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	290629	-35.1
Hexabromobiphenyl	798898	552345	-30.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	192163	-22.9
Hexabromobiphenyl	362541	298679	-17.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.287	0.000	27299	281.6	1	7.270	0.000	25660	261.2
Aroclor-1016	2	7.675	0.000	81564	260.6	2	7.869	0.000	46209	218.1
Aroclor-1016	3	7.808	0.000	36585	257.9	3	8.067	0.000	22746	250.0
Aroclor-1016	4	8.420	0.000	25761	284.9	4	8.239	0.000	13292	277.8
Total Col1Ave (4 peaks):					271.3	Total Col2Ave (4 peaks):				251.7 RPD = 7
Corrected Ave (3 peaks):					266.7	Corrected Ave (3 peaks):				243.1 RPD = 9
CalAmt %D:					8.5	CalAmt %D:				0.7
Aroclor-1260	1	11.055	0.000	54815	272.6	1	11.661	0.000	40590	257.5
Aroclor-1260	2	11.371	0.000	57828	278.1	2	11.923	0.000	72425	183.1
Aroclor-1260	3	11.744	0.000	151796	277.8	3	12.442	0.000	28907	274.4
Aroclor-1260	4	12.148	0.000	84163	302.5	4	12.507	0.000	54982	208.5
Aroclor-1260	5	12.254	0.000	36373	319.3	NS	---			----
Total Col1Ave (5 peaks):					290.1	Total Col2Ave (4 peaks):				230.8 RPD = 23
Corrected Ave (4 peaks):					282.8	Corrected Ave (3 peaks):				216.3 RPD = 27
CalAmt %D:					16.0	CalAmt %D:				-7.7

Total PCB Area Col1 (5.931 - 13.801) = 1574041 Col1 Total PCB = 0.6 ppm*

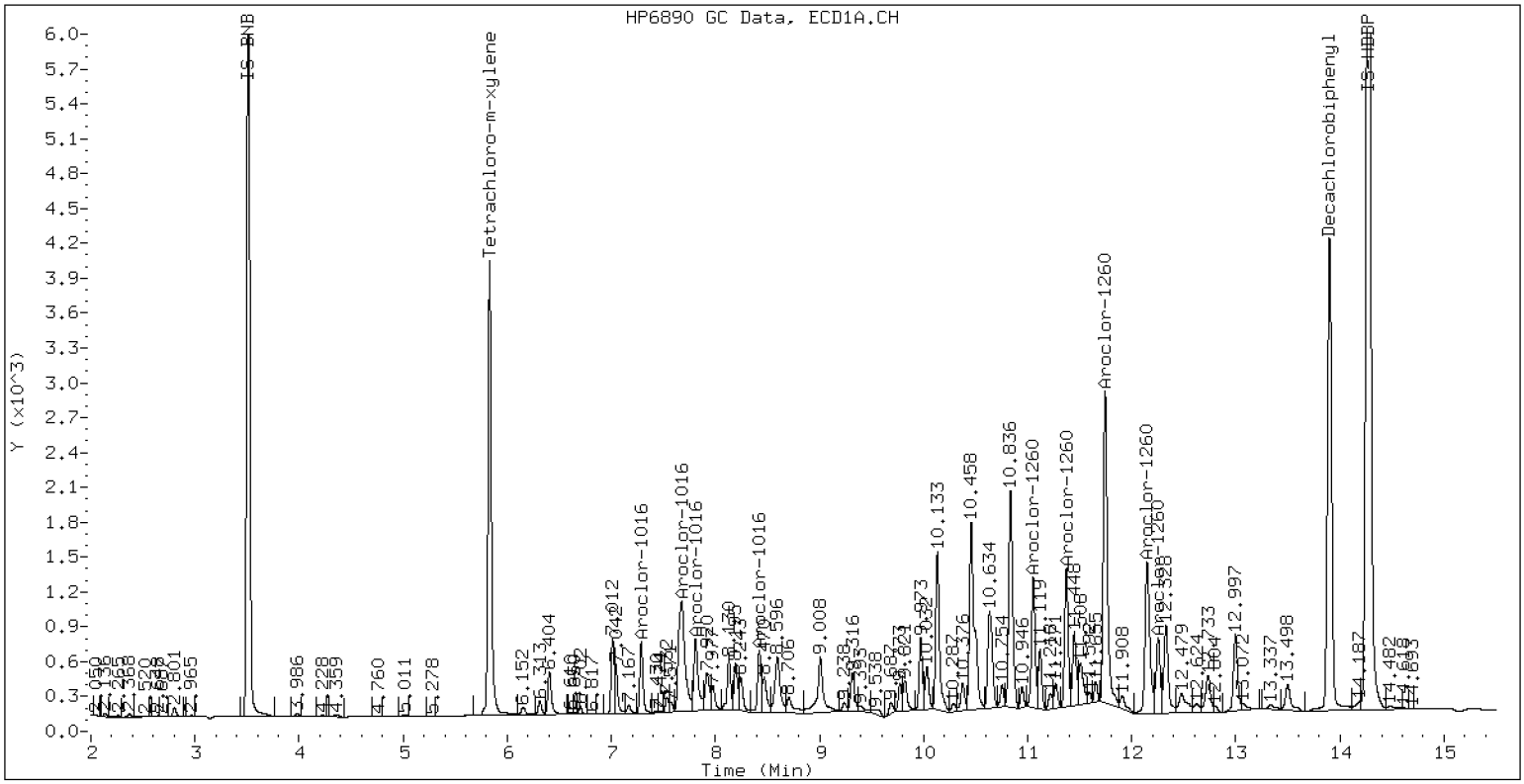
Total PCB Area Col2 (5.807 - 14.027) = 903376 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

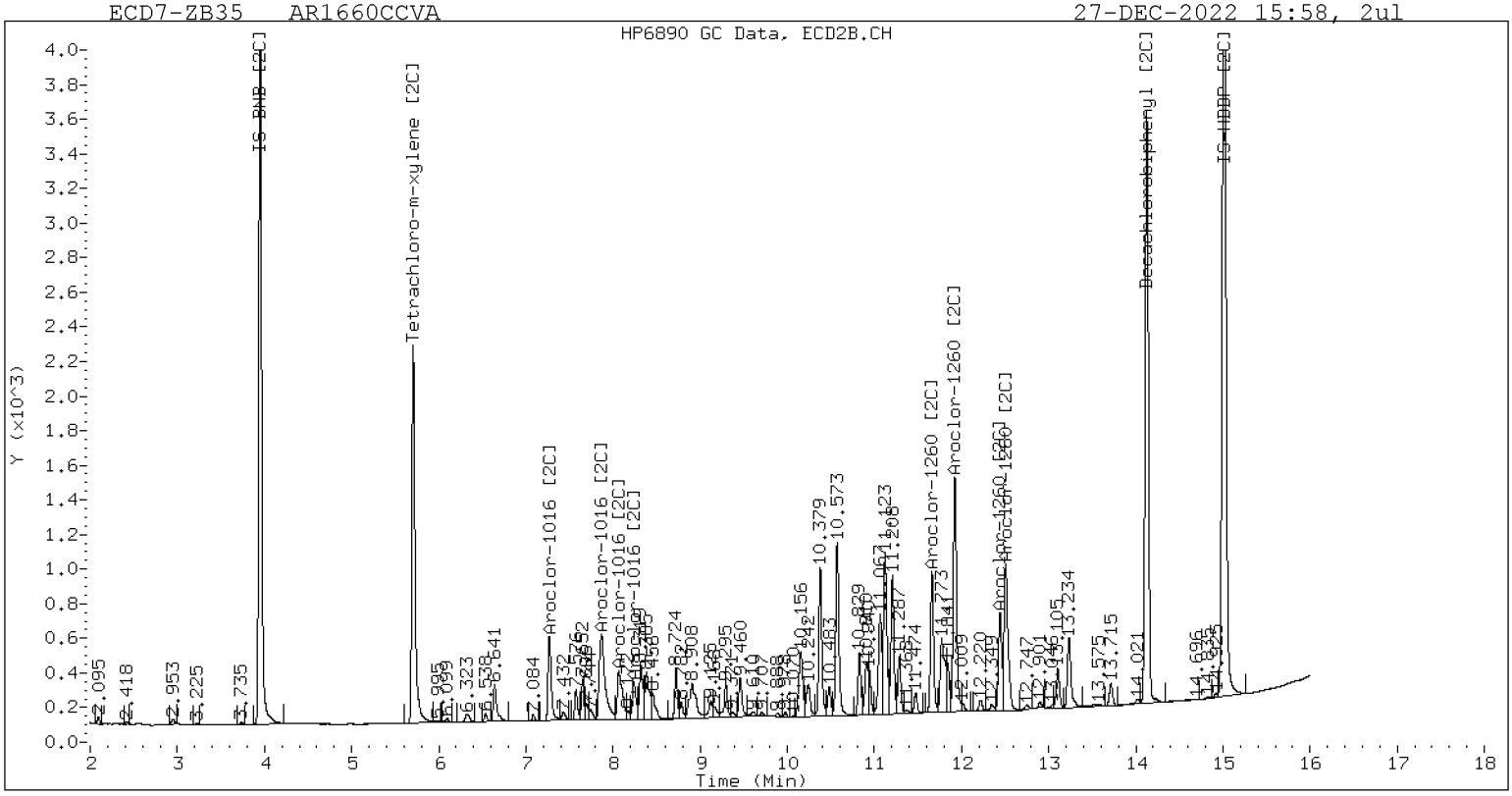
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCVA 27-DEC-2022 15:58, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1660CCVA 27-DEC-2022 15:58, 2ul

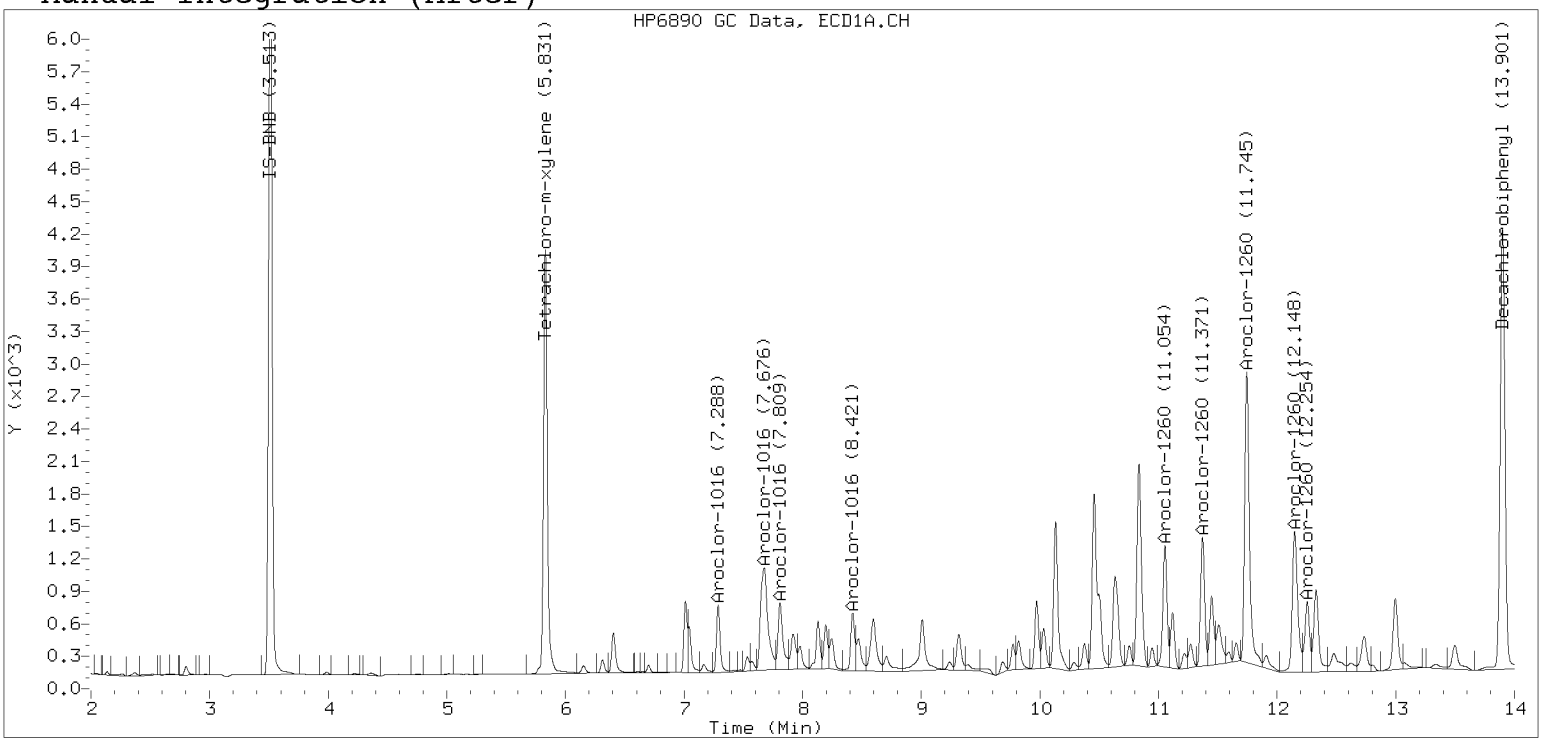


ZB-35 Manual Integration: NO

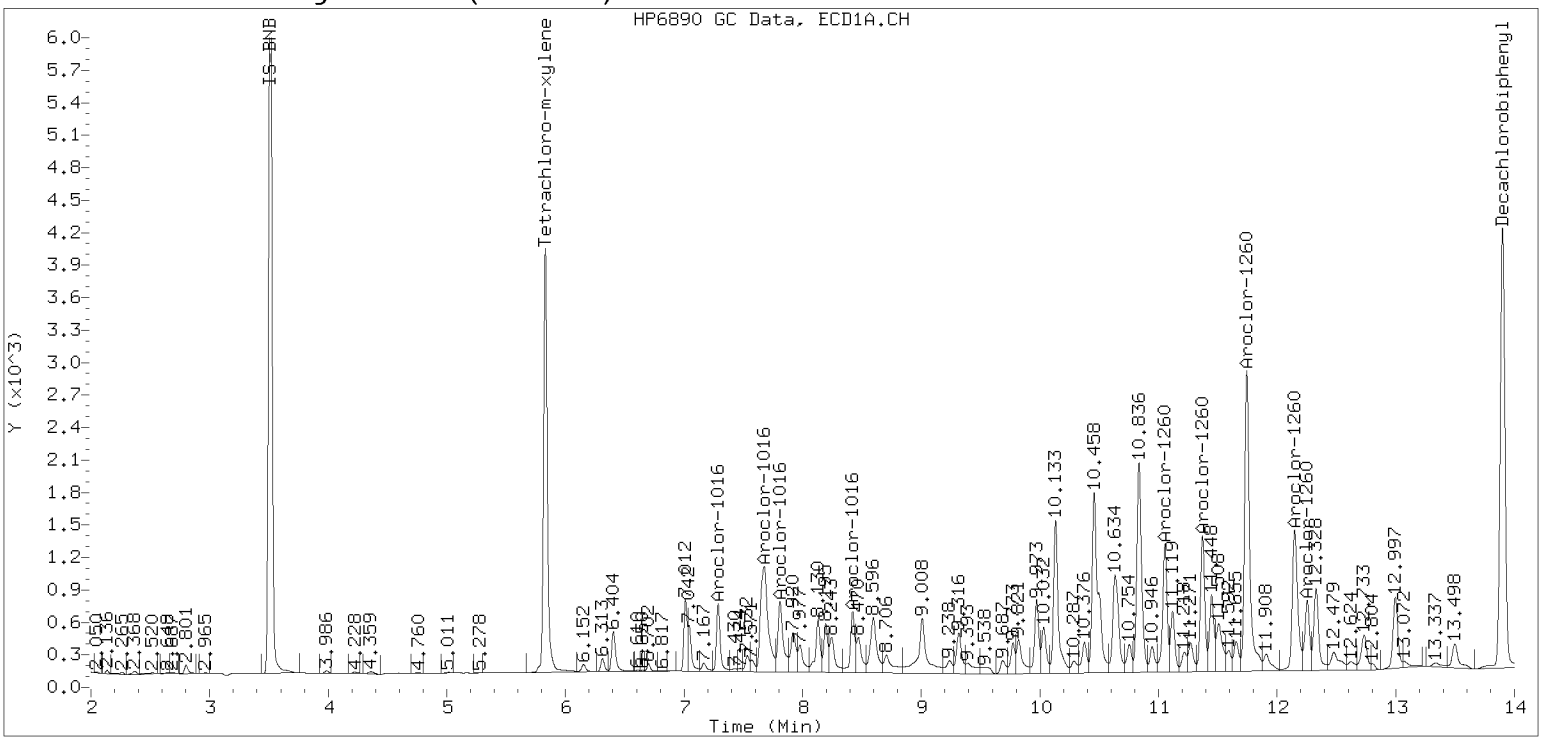
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221226.b/12262269ECD7.D Injection Date: 27-DEC-2022 15:58

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0048
Instrument: ECD7
Calibration: FL00010

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Cal Standard	SKL0048-CAL1	12032211ECD7.D	12032211ECD7.D	NA	12/03/22 18:19
Cal Standard	SKL0048-CAL2	12032212ECD7.D	12032212ECD7.D	NA	12/03/22 18:40
Cal Standard	SKL0048-CAL3	12032213ECD7.D	12032213ECD7.D	NA	12/03/22 19:01
Cal Standard	SKL0048-CAL4	12032214ECD7.D	12032214ECD7.D	NA	12/03/22 19:23
Cal Standard	SKL0048-CAL5	12032215ECD7.D	12032215ECD7.D	NA	12/03/22 19:44
Cal Standard	SKL0048-CAL6	12032216ECD7.D	12032216ECD7.D	NA	12/03/22 20:05
Cal Standard	SKL0048-CAL7	12032217ECD7.D	12032217ECD7.D	NA	12/03/22 20:26
Cal Standard	SKL0048-CAL8	12032218ECD7.D	12032218ECD7.D	NA	12/03/22 20:48
Cal Standard	SKL0048-CAL9	12032219ECD7.D	12032219ECD7.D	NA	12/03/22 21:09
Cal Standard	SKL0048-CALA	12032220ECD7.D	12032220ECD7.D	NA	12/03/22 21:30
Cal Standard	SKL0048-CALB	12032221ECD7.D	12032221ECD7.D	NA	12/03/22 21:52
Secondary Cal Check	SKL0048-SCV1	12032222ECD7.D	12032222ECD7.D	NA	12/03/22 22:13
Secondary Cal Check	SKL0048-SCV2	12032223ECD7.D	12032223ECD7.D	NA	12/03/22 22:34
Secondary Cal Check	SKL0048-SCV3	12032224ECD7.D	12032224ECD7.D	NA	12/03/22 22:55
Secondary Cal Check	SKL0048-SCV4	12032225ECD7.D	12032225ECD7.D	NA	12/03/22 23:17
Secondary Cal Check	SKL0048-SCV5	12032226ECD7.D	12032226ECD7.D	NA	12/03/22 23:38
Secondary Cal Check	SKL0048-SCV6	12032227ECD7.D	12032227ECD7.D	NA	12/03/22 23:59

Printed: 12/6/2022 9:25:24AM

ANALYSIS SEQUENCE

SKL0048

Instrument: ECD7 Element Column ID:
Calibration ID: FL00010

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	Comments
SKL0048-CAL1	0.25PPM AR1660	QC		1	K006954	K006953		
SKL0048-CAL2	0.02PPM AR1660	QC		2	K010070	K006953		
SKL0048-CAL3	0.05PPM AR1660	QC		3	K010069	K006953		
SKL0048-CAL4	1PPM AR1660	QC		4	K006741	K006953		
SKL0048-CAL5	0.1PPM AR1660	QC		5	K010068	K006953		
SKL0048-CAL6	0.5PPM AR1660	QC		6	K010067	K006953		
SKL0048-CAL7	0.25PPM AR1242	QC		7	K006955	K006953		
SKL0048-CAL8	0.25PPM AR1248	QC		8	K006956	K006953		
SKL0048-CAL9	0.25PPM AR1254	QC		9	K006957	K006953		
SKL0048-CALA	0.25PPM AR2162	QC		10	K010071	K006953		
SKL0048-CALB	0.25PPM AR3268	QC		11	K010072	K006953		
SKL0048-SCV1	AR1660SCV1	QC		12	K007655	K006953		
SKL0048-SCV2	AR1242SCV2	QC		13	K007656	K006953		
SKL0048-SCV3	AR1248SCV3	QC		14	K007657	K006953		
SKL0048-SCV4	AR1254SCV4	QC		15	K007658	K006953		
SKL0048-SCV5	AR2162SCV5	QC		16	K007659	K006953		
SKL0048-SCV6	AR3268SCV6	QC		17	K007660	K006953		

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221203.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	03-DEC-2022 17:58	12032210ECD7.D	1	IB	
2	03-DEC-2022 18:19	12032211ECD7.D	1	0.25PPAR1660	
3	03-DEC-2022 18:40	12032212ECD7.D	1	0.02PPAR1660	
4	03-DEC-2022 19:01	12032213ECD7.D	1	0.05PPAR1660	
5	03-DEC-2022 19:23	12032214ECD7.D	1	1PPMAR1660	
6	03-DEC-2022 19:44	12032215ECD7.D	1	0.1PPMAR1660	
7	03-DEC-2022 20:05	12032216ECD7.D	1	0.5PPMAR1660	
8	03-DEC-2022 20:26	12032217ECD7.D	1	AR1242	
9	03-DEC-2022 20:48	12032218ECD7.D	1	AR1248	
10	03-DEC-2022 21:09	12032219ECD7.D	1	AR1254	
11	03-DEC-2022 21:30	12032220ECD7.D	1	AR2162	
12	03-DEC-2022 21:52	12032221ECD7.D	1	AR3268	
13	03-DEC-2022 22:13	12032222ECD7.D	1	AR1660SCV1	
14	03-DEC-2022 22:34	12032223ECD7.D	1	AR1242SCV2	
15	03-DEC-2022 22:55	12032224ECD7.D	1	AR1248SCV3	
16	03-DEC-2022 23:17	12032225ECD7.D	1	AR1254SCV4	
17	03-DEC-2022 23:38	12032226ECD7.D	1	AR2162SCV5	
18	03-DEC-2022 23:59	12032227ECD7.D	1	AR3268SCV6	
19	04-DEC-2022 00:20	12032228ECD7.D	1	0.1 PPM DDTS	
20	04-DEC-2022 00:42	12032229ECD7.D	1	DDT BD	
21	04-DEC-2022 01:03	12032230ECD7.D	1	AR1254ICV1	
22	04-DEC-2022 01:24	12032231ECD7.D	1	AR1660ICV2	
23	04-DEC-2022 01:46	12032232ECD7.D	1	BKK0834-BLK1	
24	04-DEC-2022 02:07	12032233ECD7.D	1	BKK0834-BS1	
25	04-DEC-2022 02:28	12032234ECD7.D	1	BKK0834-BSD1	
26	04-DEC-2022 02:49	12032235ECD7.D	1	22K0523-01	
27	04-DEC-2022 03:11	12032236ECD7.D	1	22K0525-01	
28	04-DEC-2022 03:32	12032237ECD7.D	1	BKK0374-BLK1	
29	04-DEC-2022 03:53	12032238ECD7.D	1	BKK0374-BS1	
30	04-DEC-2022 04:15	12032239ECD7.D	1	BKK0374-BSD1	
31	04-DEC-2022 04:36	12032240ECD7.D	1	22K0161-01	
32	04-DEC-2022 04:57	12032241ECD7.D	1	AR1248CCV1	
33	04-DEC-2022 05:18	12032242ECD7.D	1	AR1660CCV2	
34	04-DEC-2022 05:40	12032243ECD7.D	1	BKL0017-BLK1	
35	04-DEC-2022 06:01	12032244ECD7.D	1	BKL0017-BS1	
36	04-DEC-2022 06:22	12032245ECD7.D	1	BKL0017-BSD1	
37	04-DEC-2022 06:44	12032246ECD7.D	1	22J0139-01	
38	04-DEC-2022 07:05	12032247ECD7.D	1	BKK0383-BLK1	
39	04-DEC-2022 07:26	12032248ECD7.D	1	BKK0383-BS1	
40	04-DEC-2022 07:47	12032249ECD7.D	1	BKK0383-BSD	
41	04-DEC-2022 08:09	12032250ECD7.D	1	22K0075-01	
42	04-DEC-2022 08:30	12032251ECD7.D	1	BKK00803-BLK1	
43	04-DEC-2022 08:51	12032252ECD7.D	1	BKK00803-BS1	
44	04-DEC-2022 09:13	12032253ECD7.D	1	BKK00803-BSD1	
45	04-DEC-2022 09:34	12032254ECD7.D	1	22K0511-01	
46	04-DEC-2022 09:55	12032255ECD7.D	1	AR1242CCV3	
47	04-DEC-2022 10:17	12032256ECD7.D	1	AR1660CCV4	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221203.b

Instrument: ecd7.i Date: 03-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
1758	12032210ECD7.D	IB	1	NO MANUAL INTEGRATION
1819	12032211ECD7.D	0.25PPAR1660	1	NO MANUAL INTEGRATION
1840	12032212ECD7.D	0.02PPAR1660	1	NO MANUAL INTEGRATION
1901	12032213ECD7.D	0.05PPAR1660	1	NO MANUAL INTEGRATION
1923	12032214ECD7.D	1PPMAR1660	1	NO MANUAL INTEGRATION
1944	12032215ECD7.D	0.1PPMAR1660	1	NO MANUAL INTEGRATION
2005	12032216ECD7.D	0.5PPMAR1660	1	NO MANUAL INTEGRATION
2026	12032217ECD7.D	AR1242	1	Aroclor-1242,
2048	12032218ECD7.D	AR1248	1	NO MANUAL INTEGRATION
2109	12032219ECD7.D	AR1254	1	NO MANUAL INTEGRATION
2130	12032220ECD7.D	AR2162	1	NO MANUAL INTEGRATION
2152	12032221ECD7.D	AR3268	1	NO MANUAL INTEGRATION
2213	12032222ECD7.D	AR1660SCV1	1	NO MANUAL INTEGRATION
2234	12032223ECD7.D	AR1242SCV2	1	NO MANUAL INTEGRATION
2255	12032224ECD7.D	AR1248SCV3	1	NO MANUAL INTEGRATION
2317	12032225ECD7.D	AR1254SCV4	1	NO MANUAL INTEGRATION
2338	12032226ECD7.D	AR2162SCV5	1	NO MANUAL INTEGRATION

Instrument: ecd7.i Date: 03-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
2359	12032227ECD7.D	AR3268SCV6	1	NO MANUAL INTEGRATION

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0280
Instrument: ECD7
Calibration: FL00010

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Initial Cal Check	SKL0280-ICV1	12172203ECD7.D	12172203ECD7.D	NA	12/17/22 09:59
Initial Cal Check	SKL0280-ICV2	12172204ECD7.D	12172204ECD7.D	NA	12/17/22 10:20
Blank	BKL0190-BLK1	12172205ECD7.D	12172205ECD7.D	Solid	12/17/22 10:41
LCS	BKL0190-BS1	12172206ECD7.D	12172206ECD7.D	Solid	12/17/22 11:03
LCS Dup	BKL0190-BSD1	12172207ECD7.D	12172207ECD7.D	Solid	12/17/22 11:24
Reference	BKL0190-SRM1	12172208ECD7.D	12172208ECD7.D	Solid	12/17/22 11:45
LDW22-SS822	BKL0190-MS1	12172209ECD7.D	12172209ECD7.D	Solid	12/17/22 12:07
LDW22-SS822	BKL0190-MSD1	12172210ECD7.D	12172210ECD7.D	Solid	12/17/22 12:28
LDW22-SS823	22L0136-01	12172213ECD7.D	12172213ECD7.D	Solid	12/17/22 13:31
LDW22-SS822	22L0136-02	12172214ECD7.D	12172214ECD7.D	Solid	12/17/22 13:53
Calibration Check	SKL0280-CCV1	12172215ECD7.D	12172215ECD7.D	NA	12/17/22 14:14
Calibration Check	SKL0280-CCV2	12172216ECD7.D	12172216ECD7.D	NA	12/17/22 14:35
LDW22-SS821	22L0136-03	12172217ECD7.D	12172217ECD7.D	Solid	12/17/22 14:56
LDW22-SS820	22L0136-04	12172218ECD7.D	12172218ECD7.D	Solid	12/17/22 15:18
LDW22-SS819	22L0136-05	12172219ECD7.D	12172219ECD7.D	Solid	12/17/22 15:39
LDW22-SS818	22L0136-06	12172220ECD7.D	12172220ECD7.D	Solid	12/17/22 16:00
LDW22-SS811	22L0136-07	12172221ECD7.D	12172221ECD7.D	Solid	12/17/22 16:21
LDW22-SS786	22L0136-08	12172222ECD7.D	12172222ECD7.D	Solid	12/17/22 16:42
LDW22-SS771	22L0136-10	12172224ECD7.D	12172224ECD7.D	Solid	12/17/22 17:25
LDW22-SS772	22L0136-12	12172226ECD7.D	12172226ECD7.D	Solid	12/17/22 18:07
Calibration Check	SKL0280-CCV3	12172227ECD7.D	12172227ECD7.D	NA	12/17/22 18:29
Calibration Check	SKL0280-CCV4	12172228ECD7.D	12172228ECD7.D	NA	12/17/22 18:50
Calibration Check	SKL0280-CCV5	12172237ECD7.D	12172237ECD7.D	NA	12/17/22 22:01
Calibration Check	SKL0280-CCV6	12172238ECD7.D	12172238ECD7.D	NA	12/17/22 22:22
Calibration Check	SKL0280-CCV7	12172252ECD7.D	12172252ECD7.D	NA	12/18/22 03:20
Calibration Check	SKL0280-CCV8	12172253ECD7.D	12172253ECD7.D	NA	12/18/22 03:41
Calibration Check	SKL0280-CCV9	12172264ECD7.D	12172264ECD7.D	NA	12/18/22 07:35
Calibration Check	SKL0280-CCVA	12172265ECD7.D	12172265ECD7.D	NA	12/18/22 07:56
Calibration Check	SKL0280-CCVB	12172279ECD7.D	12172279ECD7.D	NA	12/18/22 12:54

Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0280	Instrument:	ECD7
		Calibration:	FL00010

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Calibration Check	SKL0280-CCVC	12172280ECD7.D	12172280ECD7.D	NA	12/18/22 13:15

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SKL0280

Instrument: ECD7
Calibration ID: FL00010

Printed: 12/20/2022 3:47:50PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SKL0280-ICV1	QC		1		K006957	K006953		
SKL0280-ICV2	QC		2		K006954	K006953		
BKL0190-BLK1	QC		3			K006953		
BKL0190-BS1	QC		4			K006953		
BKL0190-BSD1	QC		5			K006953		
BKL0190-SRM1	QC		6			K006953		
BKL0190-MS1	QC		7			K006953		
BKL0190-MSD1	QC		8			K006953		
22L0104-01	8082A PCB Solid 4	B 02	9			K006953	Anchor QEA, LLC	
22L0104-02	8082A PCB Solid 4	B 02	10			K006953	Anchor QEA, LLC	Finsh extract and hold
22L0136-01	8082A PCB Solid 4	A 01	11			K006953	Anchor QEA, LLC	
22L0136-02	8082A PCB Solid 4	A 01	12			K006953	Anchor QEA, LLC	
SKL0280-CCV1	QC		13		K006956	K006953		
SKL0280-CCV2	QC		14		K006954	K006953		
22L0136-03	8082A PCB Solid 4	A 01	15			K006953	Anchor QEA, LLC	
22L0136-04	8082A PCB Solid 4	A 01	16			K006953	Anchor QEA, LLC	
22L0136-05	8082A PCB Solid 4	A 01	17			K006953	Anchor QEA, LLC	
22L0136-06	8082A PCB Solid 4	A 01	18			K006953	Anchor QEA, LLC	
22L0136-07	8082A PCB Solid 4	A 01	19			K006953	Anchor QEA, LLC	
22L0136-08	8082A PCB Solid 4	A 01	20			K006953	Anchor QEA, LLC	
22L0136-09	8082A PCB Solid 4	A 01	21			K006953	Anchor QEA, LLC	

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SKL0280

Instrument: ECD7
Calibration ID: FL00010

Printed: 12/20/2022 3:47:50PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
22L0136-10	8082A PCB Solid 4	A 01	22			K006953	Anchor QEA, LLC	
22L0136-11	8082A PCB Solid 4	A 01	23			K006953	Anchor QEA, LLC	
22L0136-12	8082A PCB Solid 4	A 01	24			K006953	Anchor QEA, LLC	
SKL0280-CCV3	QC		25		K006955	K006953		
SKL0280-CCV4	QC		26		K006954	K006953		
BKL0224-BLK1	QC		27			K006953		
BKL0224-BS1	QC		28			K006953		
BKL0224-BSD1	QC		29			K006953		
22L0174-01	8082A PCB Water 0.01	A 01	30			K006953	The Boeing Company [BDS Stormwaters]	
22L0174-02	8082A PCB Water 0.01	A 01	31			K006953	The Boeing Company [BDS Stormwaters]	
22L0192-01	8082A PCB Water 0.01	A 01	32			K006953	The Boeing Company [North Boeing Field]	
22L0207-01	8082A PCB Water 0.01	A 01	33			K006953	DH Environmental Inc	
SKL0280-CCV5	QC		34		K006957	K006953		
SKL0280-CCV6	QC		35		K006954	K006953		
BKL0158-BLK1	QC		36			K006953		
BKL0158-BS1	QC		37			K006953		
BKL0158-BSD1	QC		38			K006953		
BKL0158-SRM1	QC		39			K006953		
BKL0158-MS1	QC		40			K006953		
BKL0158-MSD1	QC		41			K006953		
SKL0280-CCV7	QC		42		K006956	K006953		

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SKL0280

Instrument: ECD7
Calibration ID: FL00010

Printed: 12/20/2022 3:47:50PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SKL0280-CCV8	QC		43		K006954	K006953		
SKL0280-CCV9	QC		44		K006955	K006953		
SKL0280-CCVA	QC		45		K006954	K006953		
BKK0730-BLK1	QC		46			K006953		
BKK0730-BS1	QC		47			K006953		
BKK0730-BSD1	QC		48			K006953		
BKK0730-MS1	QC		49			K006953		
BKK0730-MSD1	QC		50			K006953		
22K0471-01	8082A PCB Water 0.01	B 01	51			K006953	Aspect Consulting, LLC.	
22K0471-03	8082A PCB Water 0.01	AB 01	52			K006953	Aspect Consulting, LLC.	
22K0471-05	8082A PCB Water 0.01	B 01	53			K006953	Aspect Consulting, LLC.	
22K0471-07	8082A PCB Water 0.01	B 01	54			K006953	Aspect Consulting, LLC.	
22K0471-09	8082A PCB Water 0.01	B 01	55			K006953	Aspect Consulting, LLC.	
22K0471-11	8082A PCB Water 0.01	B 01	56			K006953	Aspect Consulting, LLC.	
22K0471-13	8082A PCB Water 0.01	B 01	57			K006953	Aspect Consulting, LLC.	
22K0471-15	8082A PCB Water 0.01	B 01	58			K006953	Aspect Consulting, LLC.	
SKL0280-CCVB	QC		59		K006957	K006953		
SKL0280-CCVC	QC		60		K006954	K006953		

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221217.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	17-DEC-2022 09:16	12172201.D	1	DDTS	
2	17-DEC-2022 09:38	12172202.D	1	BD	
3	17-DEC-2022 09:59	12172203.D	1	AR1254ICV1	
4	17-DEC-2022 10:20	12172204.D	1	AR1660ICV2	
5	17-DEC-2022 10:41	12172205.D	1	BKL0190-BLK1	
6	17-DEC-2022 11:03	12172206.D	1	BKL0190-BS1	
7	17-DEC-2022 11:24	12172207.D	1	BKL0190-BSD1	
8	17-DEC-2022 11:45	12172208.D	1	BKL0190-SRM1	
9	17-DEC-2022 12:07	12172209.D	1	BKL0190-MS1	
10	17-DEC-2022 12:28	12172210.D	1	BKL0190-MSD1	
11	17-DEC-2022 12:49	12172211.D	1	22L0104-01	
12	17-DEC-2022 13:10	12172212.D	1	22L0104-02	
13	17-DEC-2022 13:31	12172213.D	1	22L0136-01	
14	17-DEC-2022 13:53	12172214.D	1	22L0136-02	
15	17-DEC-2022 14:14	12172215.D	1	AR1248CCV1	
16	17-DEC-2022 14:35	12172216.D	1	AR1660CCV2	
17	17-DEC-2022 14:56	12172217.D	1	22L0136-03	
18	17-DEC-2022 15:18	12172218.D	1	22L0136-04	
19	17-DEC-2022 15:39	12172219.D	1	22L0136-05	
20	17-DEC-2022 16:00	12172220.D	1	22L0136-06	
21	17-DEC-2022 16:21	12172221.D	1	22L0136-07	
22	17-DEC-2022 16:42	12172222.D	1	22L0136-08	
23	17-DEC-2022 17:04	12172223.D	1	22L0136-09	
24	17-DEC-2022 17:25	12172224.D	1	22L0136-10	
25	17-DEC-2022 17:46	12172225.D	1	22L0136-11	
26	17-DEC-2022 18:07	12172226.D	1	22L0136-12	
27	17-DEC-2022 18:29	12172227.D	1	AR1242CCV3	
28	17-DEC-2022 18:50	12172228.D	1	AR1660CCV4	
29	17-DEC-2022 19:11	12172229.D	1	BKL0224-BLK1	
30	17-DEC-2022 19:32	12172230.D	1	BKL0224-BS1	
31	17-DEC-2022 19:54	12172231.D	1	BKL0224-BSD1	
32	17-DEC-2022 20:15	12172232.D	1	22L0174-01	
33	17-DEC-2022 20:36	12172233.D	1	22L0174-02	
34	17-DEC-2022 20:57	12172234.D	1	22L0192-01	
35	17-DEC-2022 21:19	12172235.D	1	22L0207-01	
36	17-DEC-2022 21:40	12172236.D	1	22L0268-01	
37	17-DEC-2022 22:01	12172237.D	1	AR1254CCV5	
38	17-DEC-2022 22:22	12172238.D	1	AR1660CCV6	
39	17-DEC-2022 22:44	12172239.D	1	BKL0156-BLK1	
40	17-DEC-2022 23:05	12172240.D	1	BKL0156-BS1	
41	17-DEC-2022 23:26	12172241.D	1	BKL0156-BSD1	
42	17-DEC-2022 23:47	12172242.D	1	BKL0156-SRM1	
43	18-DEC-2022 00:09	12172243.D	1	BKL0156-MS1	
44	18-DEC-2022 00:30	12172244.D	1	BKL0156-MSD1	
45	18-DEC-2022 00:51	12172245.D	1	22L0105-17	
46	18-DEC-2022 01:12	12172246.D	1	22L0105-18	
47	18-DEC-2022 01:34	12172247.D	1	22L0105-19	
48	18-DEC-2022 01:55	12172248.D	1	22L0105-20	
49	18-DEC-2022 02:16	12172249.D	1	22L0105-21	
50	18-DEC-2022 02:37	12172250.D	1	22L0105-22	

	Inject Date/Time	Filename	DF	LabID	ClientID
51	18-DEC-2022 02:58	12172251.D	1	22L0105-23	
52	18-DEC-2022 03:20	12172252.D	1	AR1248CCV7	
53	18-DEC-2022 03:41	12172253.D	1	AR1660CCV8	
54	18-DEC-2022 04:02	12172254.D	1	22L0105-24	
55	18-DEC-2022 04:24	12172255.D	1	22L0105-25	
56	18-DEC-2022 04:45	12172256.D	1	22L0105-26	
57	18-DEC-2022 05:06	12172257.D	1	22L0105-27	
58	18-DEC-2022 05:27	12172258.D	1	22L0105-28	
59	18-DEC-2022 05:49	12172259.D	1	22L0105-29	
60	18-DEC-2022 06:10	12172260.D	1	22L0105-30	
61	18-DEC-2022 06:31	12172261.D	1	22L0105-31	
62	18-DEC-2022 06:52	12172262.D	1	22L0105-32	
63	18-DEC-2022 07:14	12172263.D	1	22L0105-33	
64	18-DEC-2022 07:35	12172264.D	1	AR1242CCV9	
65	18-DEC-2022 07:56	12172265.D	1	AR1660CCVA	
66	18-DEC-2022 08:17	12172266.D	1	BKK0730-BLK1	
67	18-DEC-2022 08:39	12172267.D	1	BKK0730-BS1	
68	18-DEC-2022 09:00	12172268.D	1	BKK0730-BSD1	
69	18-DEC-2022 09:21	12172269.D	1	BKK0730-MS1	
70	18-DEC-2022 09:43	12172270.D	1	BKK0730-MSD1	
71	18-DEC-2022 10:04	12172271.D	1	22K0471-01	
72	18-DEC-2022 10:25	12172272.D	1	22K0471-03	
73	18-DEC-2022 10:46	12172273.D	1	22K0471-05	
74	18-DEC-2022 11:08	12172274.D	1	22K0471-07	
75	18-DEC-2022 11:29	12172275.D	1	22K0471-09	
76	18-DEC-2022 11:50	12172276.D	1	22K0471-11	
77	18-DEC-2022 12:11	12172277.D	1	22K0471-13	
78	18-DEC-2022 12:33	12172278.D	1	22K0471-15	
79	18-DEC-2022 12:54	12172279.D	1	AR1254CCVB	
80	18-DEC-2022 13:15	12172280.D	1	AR1660CCVC	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221217.b

ARI Job No.: DDTS Method: PCB.m Instrument: ecd7.i Date: 17-DEC-2022

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0916	12172201ECD7.D	DDTS		1	NO MANUAL INTEGRATION
0938	12172202ECD7.D	BD		1	NO MANUAL INTEGRATION
0959	12172203ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
1020	12172204ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
1041	12172205ECD7.D	BKL0190-BLK1		1	NO MANUAL INTEGRATION
1103	12172206ECD7.D	BKL0190-BS1		1	NO MANUAL INTEGRATION
1124	12172207ECD7.D	BKL0190-BSD1		1	NO MANUAL INTEGRATION
1145	12172208ECD7.D	BKL0190-SRM1		1	NO MANUAL INTEGRATION
1207	12172209ECD7.D	BKL0190-MS1		1	NO MANUAL INTEGRATION
1228	12172210ECD7.D	BKL0190-MSD1		1	NO MANUAL INTEGRATION
1249	12172211ECD7.D	22L0104-01		1	Aroclor-1248, Aroclor-1254, Aroclor-1260, IS-BNB, IS-HBBP, Tetrachloro-m-xylene, Decachlorobiphenyl,
1310	12172212ECD7.D	22L0104-02		1	NO MANUAL INTEGRATION
1331	12172213ECD7.D	22L0136-01		1	NO MANUAL INTEGRATION
1353	12172214ECD7.D	22L0136-02		1	NO MANUAL INTEGRATION
1414	12172215ECD7.D	AR1248CCV1		1	NO MANUAL INTEGRATION
1435	12172216ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
1456	12172217ECD7.D	22L0136-03		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221217.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1518	12172218ECD7.D	22L0136-04		1	IS-BNB, Tetrachloro-m-xylene,
1539	12172219ECD7.D	22L0136-05		1	NO MANUAL INTEGRATION
1600	12172220ECD7.D	22L0136-06		1	Aroclor-1254,
1621	12172221ECD7.D	22L0136-07		1	NO MANUAL INTEGRATION
1642	12172222ECD7.D	22L0136-08		1	NO MANUAL INTEGRATION
1704	12172223ECD7.D	22L0136-09		1	Aroclor-1248, Tetrachloro-m-xylene,
1725	12172224ECD7.D	22L0136-10		1	Aroclor-1248, Aroclor-1254, Aroclor-1260, IS-BNB, Tetrachloro-m-xylene,
1746	12172225ECD7.D	22L0136-11		1	NO MANUAL INTEGRATION
1807	12172226ECD7.D	22L0136-12		1	NO MANUAL INTEGRATION
1829	12172227ECD7.D	AR1242CCV3		1	NO MANUAL INTEGRATION
1850	12172228ECD7.D	AR1660CCV4		1	NO MANUAL INTEGRATION
1911	12172229ECD7.D	BKL0224-BLK1		1	NO MANUAL INTEGRATION
1932	12172230ECD7.D	BKL0224-BS1		1	NO MANUAL INTEGRATION
1954	12172231ECD7.D	BKL0224-BSD1		1	NO MANUAL INTEGRATION
2015	12172232ECD7.D	22L0174-01		1	NO MANUAL INTEGRATION
2036	12172233ECD7.D	22L0174-02		1	NO MANUAL INTEGRATION
2057	12172234ECD7.D	22L0192-01		1	NO MANUAL INTEGRATION
2119	12172235ECD7.D	22L0207-01		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221217.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2140	12172236ECD7.D	22L0268-01		1	Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1262, Aroclor-1268, IS-BNB, IS-HBBP, Tetrachloro-m-xylene, Decachlorobiphenyl,
2201	12172237ECD7.D	AR1254CCV5		1	NO MANUAL INTEGRATION
2222	12172238ECD7.D	AR1660CCV6		1	NO MANUAL INTEGRATION
2244	12172239ECD7.D	BKL0156-BLK1		1	NO MANUAL INTEGRATION
2305	12172240ECD7.D	BKL0156-BS1		1	NO MANUAL INTEGRATION
2326	12172241ECD7.D	BKL0156-BSD1		1	NO MANUAL INTEGRATION
2347	12172242ECD7.D	BKL0156-SRM1		1	NO MANUAL INTEGRATION
0009	12172243ECD7.D	BKL0156-MS1		1	NO MANUAL INTEGRATION
0030	12172244ECD7.D	BKL0156-MSD1		1	Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Tetrachloro-m-xylene,
0051	12172245ECD7.D	22L0105-17		1	Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Tetrachloro-m-xylene,
0112	12172246ECD7.D	22L0105-18		1	NO MANUAL INTEGRATION
0134	12172247ECD7.D	22L0105-19		1	NO MANUAL INTEGRATION
0155	12172248ECD7.D	22L0105-20		1	NO MANUAL INTEGRATION
0216	12172249ECD7.D	22L0105-21		1	NO MANUAL INTEGRATION
0237	12172250ECD7.D	22L0105-22		1	NO MANUAL INTEGRATION
0258	12172251ECD7.D	22L0105-23		1	Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Tetrachloro-m-xylene,
0320	12172252ECD7.D	AR1248CCV7		1	NO MANUAL INTEGRATION
0341	12172253ECD7.D	AR1660CCV8		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221217.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0402	12172254ECD7.D	22L0105-24		1	NO MANUAL INTEGRATION
0424	12172255ECD7.D	22L0105-25		1	NO MANUAL INTEGRATION
0445	12172256ECD7.D	22L0105-26		1	NO MANUAL INTEGRATION
0506	12172257ECD7.D	22L0105-27		1	NO MANUAL INTEGRATION
0527	12172258ECD7.D	22L0105-28		1	NO MANUAL INTEGRATION
0549	12172259ECD7.D	22L0105-29		1	NO MANUAL INTEGRATION
0610	12172260ECD7.D	22L0105-30		1	NO MANUAL INTEGRATION
0631	12172261ECD7.D	22L0105-31		1	NO MANUAL INTEGRATION
0652	12172262ECD7.D	22L0105-32		1	NO MANUAL INTEGRATION
0714	12172263ECD7.D	22L0105-33		1	NO MANUAL INTEGRATION
0735	12172264ECD7.D	AR1242CCV9		1	NO MANUAL INTEGRATION
0756	12172265ECD7.D	AR1660CCVA		1	NO MANUAL INTEGRATION
0817	12172266ECD7.D	BKK0730-BLK1		1	NO MANUAL INTEGRATION
0839	12172267ECD7.D	BKK0730-BS1		1	NO MANUAL INTEGRATION
0900	12172268ECD7.D	BKK0730-BSD1		1	NO MANUAL INTEGRATION
0921	12172269ECD7.D	BKK0730-MS1		1	NO MANUAL INTEGRATION
0943	12172270ECD7.D	BKK0730-MSD1		1	NO MANUAL INTEGRATION
1004	12172271ECD7.D	22K0471-01		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221217.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1025	12172272ECD7.D	22K0471-03		1	NO MANUAL INTEGRATION
1046	12172273ECD7.D	22K0471-05		1	NO MANUAL INTEGRATION
1108	12172274ECD7.D	22K0471-07		1	NO MANUAL INTEGRATION
1129	12172275ECD7.D	22K0471-09		1	NO MANUAL INTEGRATION
1150	12172276ECD7.D	22K0471-11		1	NO MANUAL INTEGRATION
1211	12172277ECD7.D	22K0471-13		1	NO MANUAL INTEGRATION
1233	12172278ECD7.D	22K0471-15		1	NO MANUAL INTEGRATION
1254	12172279ECD7.D	AR1254CCVB		1	NO MANUAL INTEGRATION
1315	12172280ECD7.D	AR1660CCVC		1	Aroclor-1016,
0916	12172201ECD7.D	DDTS		1	NO MANUAL INTEGRATION
0938	12172202ECD7.D	BD		1	NO MANUAL INTEGRATION
0959	12172203ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
1020	12172204ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
1041	12172205ECD7.D	BKL0190-BLK1		1	NO MANUAL INTEGRATION
1103	12172206ECD7.D	BKL0190-BS1		1	NO MANUAL INTEGRATION
1124	12172207ECD7.D	BKL0190-BSD1		1	NO MANUAL INTEGRATION
1145	12172208ECD7.D	BKL0190-SRM1		1	NO MANUAL INTEGRATION
1207	12172209ECD7.D	BKL0190-MS1		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221217.b\221217.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1228	12172210ECD7.D	BKL0190-MSD1		1	NO MANUAL INTEGRATION
1249	12172211ECD7.D	22L0104-01		1	Aroclor-1248 [2C], Aroclor-1254 [2C], Aroclor-1260 [2C], Tetrachloro-m-xylene [2C],
1310	12172212ECD7.D	22L0104-02		1	NO MANUAL INTEGRATION
1331	12172213ECD7.D	22L0136-01		1	NO MANUAL INTEGRATION
1353	12172214ECD7.D	22L0136-02		1	NO MANUAL INTEGRATION
1414	12172215ECD7.D	AR1248CCV1		1	NO MANUAL INTEGRATION
1435	12172216ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
1456	12172217ECD7.D	22L0136-03		1	NO MANUAL INTEGRATION
1518	12172218ECD7.D	22L0136-04		1	Aroclor-1254 [2C], IS-BNB [2C], Tetrachloro-m-xylene [2C],
1539	12172219ECD7.D	22L0136-05		1	NO MANUAL INTEGRATION
1600	12172220ECD7.D	22L0136-06		1	Aroclor-1260 [2C],
1621	12172221ECD7.D	22L0136-07		1	NO MANUAL INTEGRATION
1642	12172222ECD7.D	22L0136-08		1	NO MANUAL INTEGRATION
1704	12172223ECD7.D	22L0136-09		1	NO MANUAL INTEGRATION
1725	12172224ECD7.D	22L0136-10		1	NO MANUAL INTEGRATION
1746	12172225ECD7.D	22L0136-11		1	NO MANUAL INTEGRATION
1807	12172226ECD7.D	22L0136-12		1	NO MANUAL INTEGRATION
1829	12172227ECD7.D	AR1242CCV3		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221217.b\221217.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1850	12172228ECD7.D	AR1660CCV4		1	NO MANUAL INTEGRATION
1911	12172229ECD7.D	BKL0224-BLK1		1	NO MANUAL INTEGRATION
1932	12172230ECD7.D	BKL0224-BS1		1	NO MANUAL INTEGRATION
1954	12172231ECD7.D	BKL0224-BSD1		1	NO MANUAL INTEGRATION
2015	12172232ECD7.D	22L0174-01		1	NO MANUAL INTEGRATION
2036	12172233ECD7.D	22L0174-02		1	NO MANUAL INTEGRATION
2057	12172234ECD7.D	22L0192-01		1	NO MANUAL INTEGRATION
2119	12172235ECD7.D	22L0207-01		1	NO MANUAL INTEGRATION
2140	12172236ECD7.D	22L0268-01		1	NO MANUAL INTEGRATION
2201	12172237ECD7.D	AR1254CCV5		1	NO MANUAL INTEGRATION
2222	12172238ECD7.D	AR1660CCV6		1	NO MANUAL INTEGRATION
2244	12172239ECD7.D	BKL0156-BLK1		1	NO MANUAL INTEGRATION
2305	12172240ECD7.D	BKL0156-BS1		1	NO MANUAL INTEGRATION
2326	12172241ECD7.D	BKL0156-BSD1		1	NO MANUAL INTEGRATION
2347	12172242ECD7.D	BKL0156-SRM1		1	NO MANUAL INTEGRATION
0009	12172243ECD7.D	BKL0156-MS1		1	NO MANUAL INTEGRATION
0030	12172244ECD7.D	BKL0156-MSD1		1	Aroclor-1016 [2C], Aroclor-1221 [2C], Aroclor-1232 [2C], Aroclor-1242 [2C], Aroclor-1248 [2C], Aroclor-1254 [2C], Aroclor-1262 [2C], Tetrachloro-m-xylene [2C],
0051	12172245ECD7.D	22L0105-17		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221217.b\221217.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0112	12172246ECD7.D	22L0105-18		1	NO MANUAL INTEGRATION
0134	12172247ECD7.D	22L0105-19		1	NO MANUAL INTEGRATION
0155	12172248ECD7.D	22L0105-20		1	NO MANUAL INTEGRATION
0216	12172249ECD7.D	22L0105-21		1	NO MANUAL INTEGRATION
0237	12172250ECD7.D	22L0105-22		1	Aroclor-1260 [2C],
0258	12172251ECD7.D	22L0105-23		1	NO MANUAL INTEGRATION
0320	12172252ECD7.D	AR1248CCV7		1	NO MANUAL INTEGRATION
0341	12172253ECD7.D	AR1660CCV8		1	NO MANUAL INTEGRATION
0402	12172254ECD7.D	22L0105-24		1	NO MANUAL INTEGRATION
0424	12172255ECD7.D	22L0105-25		1	NO MANUAL INTEGRATION
0445	12172256ECD7.D	22L0105-26		1	NO MANUAL INTEGRATION
0506	12172257ECD7.D	22L0105-27		1	NO MANUAL INTEGRATION
0527	12172258ECD7.D	22L0105-28		1	NO MANUAL INTEGRATION
0549	12172259ECD7.D	22L0105-29		1	NO MANUAL INTEGRATION
0610	12172260ECD7.D	22L0105-30		1	NO MANUAL INTEGRATION
0631	12172261ECD7.D	22L0105-31		1	NO MANUAL INTEGRATION
0652	12172262ECD7.D	22L0105-32		1	NO MANUAL INTEGRATION
0714	12172263ECD7.D	22L0105-33		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221217.b\221217.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0735	12172264ECD7.D	AR1242CCV9		1	NO MANUAL INTEGRATION
0756	12172265ECD7.D	AR1660CCVA		1	NO MANUAL INTEGRATION
0817	12172266ECD7.D	BKK0730-BLK1		1	NO MANUAL INTEGRATION
0839	12172267ECD7.D	BKK0730-BS1		1	NO MANUAL INTEGRATION
0900	12172268ECD7.D	BKK0730-BSD1		1	NO MANUAL INTEGRATION
0921	12172269ECD7.D	BKK0730-MS1		1	NO MANUAL INTEGRATION
0943	12172270ECD7.D	BKK0730-MSD1		1	NO MANUAL INTEGRATION
1004	12172271ECD7.D	22K0471-01		1	NO MANUAL INTEGRATION
1025	12172272ECD7.D	22K0471-03		1	NO MANUAL INTEGRATION
1046	12172273ECD7.D	22K0471-05		1	NO MANUAL INTEGRATION
1108	12172274ECD7.D	22K0471-07		1	NO MANUAL INTEGRATION
1129	12172275ECD7.D	22K0471-09		1	NO MANUAL INTEGRATION
1150	12172276ECD7.D	22K0471-11		1	NO MANUAL INTEGRATION
1211	12172277ECD7.D	22K0471-13		1	NO MANUAL INTEGRATION
1233	12172278ECD7.D	22K0471-15		1	NO MANUAL INTEGRATION
1254	12172279ECD7.D	AR1254CCVB		1	NO MANUAL INTEGRATION
1315	12172280ECD7.D	AR1660CCVC		1	NO MANUAL INTEGRATION

Security Status Report

Date: 20-Dec-2022 15:37

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Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SKL0280

Instrument: ECD7
Calibration ID: FL00010

Printed: 12/30/2022 9:33:40AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SKL0280-ICV1	QC		1		K006957	K006953		
SKL0280-ICV2	QC		2		K006954	K006953		
BKL0190-BLK1	QC		3			K006953		
BKL0190-BS1	QC		4			K006953		
BKL0190-BSD1	QC		5			K006953		
BKL0190-SRM1	QC		6			K006953		
BKL0190-MS1	QC		7			K006953		
BKL0190-MSD1	QC		8			K006953		
22L0104-01	8082A PCB Solid 4	B 02	9			K006953	Anchor QEA, LLC	
22L0104-02	8082A PCB Solid 4	B 02	10			K006953	Anchor QEA, LLC	Finsh extract and hold
22L0136-01	8082A PCB Solid 4	A 01	11			K006953	Anchor QEA, LLC	
22L0136-02	8082A PCB Solid 4	A 01	12			K006953	Anchor QEA, LLC	
SKL0280-CCV1	QC		13		K006956	K006953		
SKL0280-CCV2	QC		14		K006954	K006953		
22L0136-03	8082A PCB Solid 4	A 01	15			K006953	Anchor QEA, LLC	
22L0136-04	8082A PCB Solid 4	A 01	16			K006953	Anchor QEA, LLC	
22L0136-05	8082A PCB Solid 4	A 01	17			K006953	Anchor QEA, LLC	
22L0136-06	8082A PCB Solid 4	A 01	18			K006953	Anchor QEA, LLC	
22L0136-07	8082A PCB Solid 4	A 01	19			K006953	Anchor QEA, LLC	
22L0136-08	8082A PCB Solid 4	A 01	20			K006953	Anchor QEA, LLC	
22L0136-09	8082A PCB Solid 4	A 01	21			K006953	Anchor QEA, LLC	

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SKL0280

Instrument: ECD7
Calibration ID: FL00010

Printed: 12/30/2022 9:33:40AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
22L0136-10	8082A PCB Solid 4	A 01	22			K006953	Anchor QEA, LLC	
22L0136-12	8082A PCB Solid 4	A 01	23			K006953	Anchor QEA, LLC	
SKL0280-CCV3	QC		24		K006955	K006953		
SKL0280-CCV4	QC		25		K006954	K006953		
BKL0224-BLK1	QC		26			K006953		
BKL0224-BS1	QC		27			K006953		
BKL0224-BSD1	QC		28			K006953		
22L0174-01	8082A PCB Water 0.01	A 01	29			K006953	The Boeing Company [BDS Stormwaters]	
22L0174-02	8082A PCB Water 0.01	A 01	30			K006953	The Boeing Company [BDS Stormwaters]	
22L0192-01	8082A PCB Water 0.01	A 01	31			K006953	The Boeing Company [North Boeing Field]	
22L0207-01	8082A PCB Water 0.01	A 01	32			K006953	DH Environmental Inc	
SKL0280-CCV5	QC		33		K006957	K006953		
SKL0280-CCV6	QC		34		K006954	K006953		
BKL0158-BLK1	QC		35			K006953		
BKL0158-BS1	QC		36			K006953		
BKL0158-BSD1	QC		37			K006953		
BKL0158-SRM1	QC		38			K006953		
BKL0158-MS1	QC		39			K006953		
22L0105-20	8082A PCB Solid 4	A 01	40			K006953	Anchor QEA, LLC	
22L0105-21	8082A PCB Solid 4	A 01	41			K006953	Anchor QEA, LLC	
22L0105-22	8082A PCB Solid 4	A 01	42			K006953	Anchor QEA, LLC	

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SKL0280

Instrument: ECD7
Calibration ID: FL00010

Printed: 12/30/2022 9:33:40AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SKL0280-CCV7	QC		43		K006956	K006953		
SKL0280-CCV8	QC		44		K006954	K006953		
SKL0280-CCV9	QC		45		K006955	K006953		
SKL0280-CCVA	QC		46		K006954	K006953		
BKK0730-BLK1	QC		47			K006953		
BKK0730-BS1	QC		48			K006953		
BKK0730-BSD1	QC		49			K006953		
BKK0730-MS1	QC		50			K006953		
BKK0730-MSD1	QC		51			K006953		
22K0471-01	8082A PCB Water 0.01	B 01	52			K006953	Aspect Consulting, LLC.	
22K0471-03	8082A PCB Water 0.01	AB 01	53			K006953	Aspect Consulting, LLC.	
22K0471-05	8082A PCB Water 0.01	B 01	54			K006953	Aspect Consulting, LLC.	
22K0471-07	8082A PCB Water 0.01	B 01	55			K006953	Aspect Consulting, LLC.	
22K0471-09	8082A PCB Water 0.01	B 01	56			K006953	Aspect Consulting, LLC.	
22K0471-11	8082A PCB Water 0.01	B 01	57			K006953	Aspect Consulting, LLC.	
22K0471-13	8082A PCB Water 0.01	B 01	58			K006953	Aspect Consulting, LLC.	
22K0471-15	8082A PCB Water 0.01	B 01	59			K006953	Aspect Consulting, LLC.	
SKL0280-CCVB	QC		60		K006957	K006953		
SKL0280-CCVC	QC		61		K006954	K006953		

Samples Loaded By Date

Data Processed By Date

Security Status Report

Date: 30-Dec-2022 09:31

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12172203ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
12172204ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
12172205ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
12172206ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
12172207ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
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12172210ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
12172211ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
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12172219ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
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12172249ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
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12172252ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
12172253ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
12172254ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
12172255ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
12172256ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
12172257ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
12172258ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
12172259ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
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12172262ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
12172263ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
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12172265ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
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12172269ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
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12172272ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
12172273ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
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12172275ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
12172276ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
12172277ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
12172278ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
12172279ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
12172280ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0359
Instrument: ECD7
Calibration: FL00010

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Initial Cal Check	SKL0359-ICV1	12262202ECD7.D	12262202ECD7.D	NA	12/26/22 16:04
Initial Cal Check	SKL0359-ICV2	12262203ECD7.D	12262203ECD7.D	NA	12/26/22 16:26
Calibration Check	SKL0359-CCV1	12262214ECD7.D	12262214ECD7.D	NA	12/26/22 20:20
Calibration Check	SKL0359-CCV2	12262215ECD7.D	12262215ECD7.D	NA	12/26/22 20:41
Calibration Check	SKL0359-CCV3	12262226ECD7.D	12262226ECD7.D	NA	12/27/22 00:36
Calibration Check	SKL0359-CCV4	12262227ECD7.D	12262227ECD7.D	NA	12/27/22 00:57
Calibration Check	SKL0359-CCV5	12262238ECD7.D	12262238ECD7.D	NA	12/27/22 04:52
Calibration Check	SKL0359-CCV6	12262239ECD7.D	12262239ECD7.D	NA	12/27/22 05:14
Blank	BKL0548-BLK1	12262240ECD7.D	12262240ECD7.D	Solid	12/27/22 05:35
LCS	BKL0548-BS1	12262241ECD7.D	12262241ECD7.D	Solid	12/27/22 05:57
LCS Dup	BKL0548-BSD1	12262242ECD7.D	12262242ECD7.D	Solid	12/27/22 06:18
Reference	BKL0548-SRM1	12262243ECD7.D	12262243ECD7.D	Solid	12/27/22 06:39
LDW22-SS766	22L0136-09RE1	12262244ECD7.D	12262244ECD7.D	Solid	12/27/22 07:01
LDW22-SS766	BKL0548-MS1	12262245ECD7.D	12262245ECD7.D	Solid	12/27/22 07:22
LDW22-SS766	BKL0548-MSD1	12262246ECD7.D	12262246ECD7.D	Solid	12/27/22 07:43
LDW22-SS771-FD	22L0136-11RE1	12262247ECD7.D	12262247ECD7.D	Solid	12/27/22 08:05
Calibration Check	SKL0359-CCV7	12262254ECD7.D	12262254ECD7.D	NA	12/27/22 10:34
Calibration Check	SKL0359-CCV8	12262255ECD7.D	12262255ECD7.D	NA	12/27/22 10:56
Calibration Check	SKL0359-CCV9	12262268ECD7.D	12262268ECD7.D	NA	12/27/22 15:37
Calibration Check	SKL0359-CCVA	12262269ECD7.D	12262269ECD7.D	NA	12/27/22 15:58

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SKL0359

Instrument: ECD7
Calibration ID: FL00010

Printed: 12/29/2022 12:17:33PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SKL0359-ICV1	QC		1		K006957	K006953		
SKL0359-ICV2	QC		2		K006954	K006953		
22L0155-01	8082A PCB Solid 4	B 01	3				Anchor QEA, LLC	
22L0155-10	8082A PCB Solid 4	B 01	4				Anchor QEA, LLC	
22L0155-13	8082A PCB Solid 4	B 01	5				Anchor QEA, LLC	
22L0155-24	8082A PCB Solid 4	B 01	6				Anchor QEA, LLC	
22L0155-25	8082A PCB Solid 4	B 01	7				Anchor QEA, LLC	
22L0155-27	8082A PCB Solid 4	B 01	8				Anchor QEA, LLC	
22L0155-28	8082A PCB Solid 4	B 01	9				Anchor QEA, LLC	
22L0155-29	8082A PCB Solid 4	B 01	10				Anchor QEA, LLC	
22L0155-31	8082A PCB Solid 4	B 01	11				Anchor QEA, LLC	
SKL0359-CCV1	QC		12		K006956	K006953		
SKL0359-CCV2	QC		13		K006954	K006953		
22L0155-32	8082A PCB Solid 4	B 01	14				Anchor QEA, LLC	
22L0155-33	8082A PCB Solid 4	B 01	15				Anchor QEA, LLC	
22L0155-34	8082A PCB Solid 4	B 01	16				Anchor QEA, LLC	
22L0155-38	8082A PCB Solid 4	B 01	17				Anchor QEA, LLC	
SKL0359-CCV3	QC		18		K006955	K006953		
SKL0359-CCV4	QC		19		K006954	K006953		
22L0155-49	8082A PCB Solid 4	B 01	20				Anchor QEA, LLC	
22L0155-50	8082A PCB Solid 4	B 01	21				Anchor QEA, LLC	

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SKL0359

Instrument: ECD7
Calibration ID: FL00010

Printed: 12/29/2022 12:17:33PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
22L0155-54	8082A PCB Solid 4	B 01	22				Anchor QEA, LLC	
22L0155-56	8082A PCB Solid 4	B 01	23				Anchor QEA, LLC	
22L0155-57	8082A PCB Solid 4	B 01	24				Anchor QEA, LLC	
22L0155-58	8082A PCB Solid 4	B 01	25				Anchor QEA, LLC	
22L0155-59	8082A PCB Solid 4	B 01	26				Anchor QEA, LLC	
22L0155-60	8082A PCB Solid 4	B 01	27				Anchor QEA, LLC	
SKL0359-CCV5	QC		28		K006957	K006953		
SKL0359-CCV6	QC		29		K006954	K006953		
BKL0548-BLK1	QC		30					
BKL0548-BS1	QC		31					
BKL0548-BSD1	QC		32					
BKL0548-SRM1	QC		33					
22L0136-09RE1	8082A PCB Solid 4	A 03	34				Anchor QEA, LLC	From BKL0190 by CTO on 21-Dec-20
BKL0548-MS1	QC		35					
BKL0548-MSD1	QC		36					
22L0136-11RE1	8082A PCB Solid 4	A 03	37				Anchor QEA, LLC	From BKL0190 by CTO on 21-Dec-20
BKL0353-BLK1	QC		38					
BKL0353-BS1	QC		39					
BKL0353-BSD1	QC		40					
BKL0353-MRL1	QC		41					
BKL0353-MRL2	QC		42					

Samples Loaded By Date

Data Processed By Date

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SKL0359

Instrument: ECD7
Calibration ID: FL00010

Printed: 12/29/2022 12:17:33PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
22L0241-01	8.3 PCBs 0.01 ug/L or 20 ug/	A 01	43				Nucor Steel Corporation	
SKL0359-CCV7	QC		44		K006956	K006953		
SKL0359-CCV8	QC		45		K006954	K006953		
BKL0366-BLK1	QC		46					
BKL0366-BS1	QC		47					
BKL0366-BSD1	QC		48					
BKL0366-MRL1	QC		49					
BKL0366-MRL2	QC		50					
BKL0366-SRM1	QC		51					
22L0155-64	8082A PCB Solid 4	B 01	52				Anchor QEA, LLC	
22L0156-01	8082A PCB Solid 4	B 01	53				Anchor QEA, LLC	
22L0156-02	8082A PCB Solid 4	B 01	54				Anchor QEA, LLC	
SKL0359-CCV9	QC		55		K006955	K006953		
SKL0359-CCVA	QC		56		K006954	K006953		

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221226.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	26-DEC-2022 16:04	12262202ECD7.D	1	AR1254ICV1	
2	26-DEC-2022 16:26	12262203ECD7.D	1	AR1660ICV2	
3	26-DEC-2022 16:47	12262204ECD7.D	1	22L0155-01	
4	26-DEC-2022 17:08	12262205ECD7.D	1	22L0155-10	
5	26-DEC-2022 17:29	12262206ECD7.D	1	22L0155-13	
6	26-DEC-2022 17:51	12262207ECD7.D	5	22L0155-24RE1	
7	26-DEC-2022 18:12	12262208ECD7.D	5	22L0155-25RE1	
8	26-DEC-2022 18:33	12262209ECD7.D	5	22L0155-26RE1	
9	26-DEC-2022 18:55	12262210ECD7.D	5	22L0155-27RE1	
10	26-DEC-2022 19:16	12262211ECD7.D	1	22L0155-28	
11	26-DEC-2022 19:37	12262212ECD7.D	1	22L0155-29	
12	26-DEC-2022 19:59	12262213ECD7.D	1	22L0155-31	
13	26-DEC-2022 20:20	12262214ECD7.D	1	AR1248CCV1	
14	26-DEC-2022 20:41	12262215ECD7.D	1	AR1660CCV2	
15	26-DEC-2022 21:03	12262216ECD7.D	1	22L0155-32	
16	26-DEC-2022 21:24	12262217ECD7.D	1	22L0155-33	
17	26-DEC-2022 21:45	12262218ECD7.D	1	22L0155-34	
18	26-DEC-2022 22:07	12262219ECD7.D	1	22L0155-35	
19	26-DEC-2022 22:28	12262220ECD7.D	1	22L0155-36	
20	26-DEC-2022 22:49	12262221ECD7.D	1	22L0155-37	
21	26-DEC-2022 23:11	12262222ECD7.D	1	22L0155-38	
22	26-DEC-2022 23:32	12262223ECD7.D	1	22L0155-39	
23	26-DEC-2022 23:53	12262224ECD7.D	1	22L0155-40	
24	27-DEC-2022 00:15	12262225ECD7.D	1	22L0155-46	
25	27-DEC-2022 00:36	12262226ECD7.D	1	AR1242CCV3	
26	27-DEC-2022 00:57	12262227ECD7.D	1	AR1660CCV4	
27	27-DEC-2022 01:19	12262228ECD7.D	1	22L0155-47	
28	27-DEC-2022 01:40	12262229ECD7.D	1	22L0155-48	
29	27-DEC-2022 02:02	12262230ECD7.D	1	22L0155-49	
30	27-DEC-2022 02:23	12262231ECD7.D	1	22L0155-50	
31	27-DEC-2022 02:44	12262232ECD7.D	5	22L0155-54RE1	
32	27-DEC-2022 03:06	12262233ECD7.D	1	22L0155-56	
33	27-DEC-2022 03:27	12262234ECD7.D	5	22L0155-57RE1	
34	27-DEC-2022 03:48	12262235ECD7.D	5	22L0155-58RE1	
35	27-DEC-2022 04:10	12262236ECD7.D	5	22L0155-59RE1	
36	27-DEC-2022 04:31	12262237ECD7.D	5	22L0155-60RE1	
37	27-DEC-2022 04:52	12262238ECD7.D	1	AR1254CCV5	
38	27-DEC-2022 05:14	12262239ECD7.D	1	AR1660CCV6	
39	27-DEC-2022 05:35	12262240ECD7.D	1	BKL0548-BLK1	
40	27-DEC-2022 05:57	12262241ECD7.D	1	BKL0548-BS1	
41	27-DEC-2022 06:18	12262242ECD7.D	1	BKL0548-BSD1	
42	27-DEC-2022 06:39	12262243ECD7.D	1	BKL0548-SRM1	
43	27-DEC-2022 07:01	12262244ECD7.D	1	22L0136-09	
44	27-DEC-2022 07:22	12262245ECD7.D	1	BKL0548-MS1	
45	27-DEC-2022 07:43	12262246ECD7.D	1	BKL0548-MSD1	
46	27-DEC-2022 08:05	12262247ECD7.D	1	22L0136-11	
47	27-DEC-2022 08:26	12262248ECD7.D	1	BKL0353-BLK1	
48	27-DEC-2022 08:47	12262249ECD7.D	1	BKL0353-BS1	
49	27-DEC-2022 09:09	12262250ECD7.D	1	BKL0353-BSD1	
50	27-DEC-2022 09:30	12262251ECD7.D	1	BKL0353-MRL1	

	Inject Date/Time	Filename	DF	LabID	ClientID
51	27-DEC-2022 09:52	12262252ECD7.D	1	BKL0353-MRL2	
52	27-DEC-2022 10:13	12262253ECD7.D	1	22L0241-01	
53	27-DEC-2022 10:34	12262254ECD7.D	1	AR1248CCV7	
54	27-DEC-2022 10:56	12262255ECD7.D	1	AR1660CCV8	
55	27-DEC-2022 11:17	12262256ECD7.D	1	BKL0366-BLK	
56	27-DEC-2022 11:38	12262257ECD7.D	1	BKL0366-BS1	
57	27-DEC-2022 12:00	12262258ECD7.D	1	BKL0366-BSD1	
58	27-DEC-2022 12:21	12262259ECD7.D	1	BKL0366-MRL1	
59	27-DEC-2022 12:42	12262260ECD7.D	1	BKL0366-MRL2	
60	27-DEC-2022 13:04	12262261ECD7.D	1	BKL0366-SRM1	
61	27-DEC-2022 13:25	12262262ECD7.D	1	22L0155-61	
62	27-DEC-2022 13:47	12262263ECD7.D	1	22L0155-62	
63	27-DEC-2022 14:08	12262264ECD7.D	1	22L0155-63	
64	27-DEC-2022 14:29	12262265ECD7.D	1	22L0155-64	
65	27-DEC-2022 14:51	12262266ECD7.D	1	22L0156-01	
66	27-DEC-2022 15:16	12262267ECD7.D	1	22L0156-02	
67	27-DEC-2022 15:37	12262268ECD7.D	1	AR1242CCV9	
68	27-DEC-2022 15:58	12262269ECD7.D	1	AR1660CCVA	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221226.b

ARI Job No.: DDTS Method: PCB.m Instrument: ecd7.i Date: 26-DEC-2022

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1543	12262201ECD7.D	DDTS		1	NO MANUAL INTEGRATION
1604	12262202ECD7.D	AR1254ICV1		1	Aroclor-1254,
1626	12262203ECD7.D	AR1660ICV2		1	Aroclor-1016, Aroclor-1260,
1647	12262204ECD7.D	22L0155-01		1	Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1262, IS-BNB, Tetrachloro-m-xylene,
1708	12262205ECD7.D	22L0155-10		1	Aroclor-1260,
1729	12262206ECD7.D	22L0155-13		1	NO MANUAL INTEGRATION
1751	12262207ECD7.D	22L0155-24RE1		5	Aroclor-1254,
1812	12262208ECD7.D	22L0155-25RE1		5	NO MANUAL INTEGRATION
1833	12262209ECD7.D	22L0155-26RE1		5	Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1262, Aroclor-1268, Tetrachloro-m-xylene,
1855	12262210ECD7.D	22L0155-27RE1		5	Aroclor-1254, Aroclor-1260,
1916	12262211ECD7.D	22L0155-28		1	NO MANUAL INTEGRATION
1937	12262212ECD7.D	22L0155-29		1	Aroclor-1260,
1959	12262213ECD7.D	22L0155-31		1	NO MANUAL INTEGRATION
2020	12262214ECD7.D	AR1248CCV1		1	NO MANUAL INTEGRATION
2041	12262215ECD7.D	AR1660CCV2		1	Aroclor-1016, Aroclor-1260, Tetrachloro-m-xylene,
2103	12262216ECD7.D	22L0155-32		1	NO MANUAL INTEGRATION
2124	12262217ECD7.D	22L0155-33		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221226.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2145	12262218ECD7.D	22L0155-34		1	Aroclor-1248, Aroclor-1254, Tetrachloro-m-xylene,
2207	12262219ECD7.D	22L0155-35		1	NO MANUAL INTEGRATION
2228	12262220ECD7.D	22L0155-36		1	NO MANUAL INTEGRATION
2249	12262221ECD7.D	22L0155-37		1	NO MANUAL INTEGRATION
2311	12262222ECD7.D	22L0155-38		1	NO MANUAL INTEGRATION
2332	12262223ECD7.D	22L0155-39		1	NO MANUAL INTEGRATION
2353	12262224ECD7.D	22L0155-40		1	NO MANUAL INTEGRATION
0015	12262225ECD7.D	22L0155-46		1	NO MANUAL INTEGRATION
0036	12262226ECD7.D	AR1242CCV3		1	NO MANUAL INTEGRATION
0057	12262227ECD7.D	AR1660CCV4		1	Aroclor-1016, Aroclor-1260,
0119	12262228ECD7.D	22L0155-47		1	NO MANUAL INTEGRATION
0140	12262229ECD7.D	22L0155-48		1	NO MANUAL INTEGRATION
0202	12262230ECD7.D	22L0155-49		1	Aroclor-1254, Aroclor-1260,
0223	12262231ECD7.D	22L0155-50		1	Aroclor-1248, Aroclor-1254, Aroclor-1260,
0244	12262232ECD7.D	22L0155-54RE1		5	NO MANUAL INTEGRATION
0306	12262233ECD7.D	22L0155-56		1	Aroclor-1260,
0327	12262234ECD7.D	22L0155-57RE1		5	NO MANUAL INTEGRATION
0348	12262235ECD7.D	22L0155-58RE1		5	Aroclor-1254,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221226.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0410	12262236ECD7.D	22L0155-59RE1		5	Aroclor-1254,
0431	12262237ECD7.D	22L0155-60RE1		5	Aroclor-1254,
0452	12262238ECD7.D	AR1254CCV5		1	Aroclor-1254,
0514	12262239ECD7.D	AR1660CCV6		1	NO MANUAL INTEGRATION
0535	12262240ECD7.D	BKL0548-BLK1		1	NO MANUAL INTEGRATION
0557	12262241ECD7.D	BKL0548-BS1		1	NO MANUAL INTEGRATION
0618	12262242ECD7.D	BKL0548-BSD1		1	NO MANUAL INTEGRATION
0639	12262243ECD7.D	BKL0548-SRM1		1	NO MANUAL INTEGRATION
0701	12262244ECD7.D	22L0136-09		1	Aroclor-1254, Aroclor-1260,
0722	12262245ECD7.D	BKL0548-MS1		1	NO MANUAL INTEGRATION
0743	12262246ECD7.D	BKL0548-MSD1		1	NO MANUAL INTEGRATION
0805	12262247ECD7.D	22L0136-11		1	Aroclor-1260, IS-BNB, IS-HBBP, Tetrachloro-m-xylene, Decachlorobiphenyl,
0826	12262248ECD7.D	BKL0353-BLK1		1	NO MANUAL INTEGRATION
0847	12262249ECD7.D	BKL0353-BS1		1	NO MANUAL INTEGRATION
0909	12262250ECD7.D	BKL0353-BSD1		1	NO MANUAL INTEGRATION
0930	12262251ECD7.D	BKL0353-MRL1		1	NO MANUAL INTEGRATION
0952	12262252ECD7.D	BKL0353-MRL2		1	NO MANUAL INTEGRATION
1013	12262253ECD7.D	22L0241-01		1	Tetrachloro-m-xylene,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221226.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1034	12262254ECD7.D	AR1248CCV7		1	NO MANUAL INTEGRATION
1056	12262255ECD7.D	AR1660CCV8		1	NO MANUAL INTEGRATION
1117	12262256ECD7.D	BKL0366-BLK		1	NO MANUAL INTEGRATION
1138	12262257ECD7.D	BKL0366-BS1		1	NO MANUAL INTEGRATION
1200	12262258ECD7.D	BKL0366-BSD1		1	NO MANUAL INTEGRATION
1221	12262259ECD7.D	BKL0366-MRL1		1	NO MANUAL INTEGRATION
1242	12262260ECD7.D	BKL0366-MRL2		1	NO MANUAL INTEGRATION
1304	12262261ECD7.D	BKL0366-SRM1		1	NO MANUAL INTEGRATION
1325	12262262ECD7.D	22L0155-61		1	NO MANUAL INTEGRATION
1347	12262263ECD7.D	22L0155-62		1	NO MANUAL INTEGRATION
1408	12262264ECD7.D	22L0155-63		1	NO MANUAL INTEGRATION
1429	12262265ECD7.D	22L0155-64		1	Aroclor-1254,
1451	12262266ECD7.D	22L0156-01		1	NO MANUAL INTEGRATION
1516	12262267ECD7.D	22L0156-02		1	Aroclor-1254,
1537	12262268ECD7.D	AR1242CCV9		1	Aroclor-1242,
1558	12262269ECD7.D	AR1660CCVA		1	Aroclor-1016, Aroclor-1260,
1543	12262201ECD7.D	DDTS		1	NO MANUAL INTEGRATION
1604	12262202ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221226.b\221226.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1626	12262203ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
1647	12262204ECD7.D	22L0155-01		1	NO MANUAL INTEGRATION
1708	12262205ECD7.D	22L0155-10		1	NO MANUAL INTEGRATION
1729	12262206ECD7.D	22L0155-13		1	NO MANUAL INTEGRATION
1751	12262207ECD7.D	22L0155-24RE1		5	NO MANUAL INTEGRATION
1812	12262208ECD7.D	22L0155-25RE1		5	NO MANUAL INTEGRATION
1833	12262209ECD7.D	22L0155-26RE1		5	NO MANUAL INTEGRATION
1855	12262210ECD7.D	22L0155-27RE1		5	NO MANUAL INTEGRATION
1916	12262211ECD7.D	22L0155-28		1	NO MANUAL INTEGRATION
1937	12262212ECD7.D	22L0155-29		1	NO MANUAL INTEGRATION
1959	12262213ECD7.D	22L0155-31		1	NO MANUAL INTEGRATION
2020	12262214ECD7.D	AR1248CCV1		1	NO MANUAL INTEGRATION
2041	12262215ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
2103	12262216ECD7.D	22L0155-32		1	NO MANUAL INTEGRATION
2124	12262217ECD7.D	22L0155-33		1	NO MANUAL INTEGRATION
2145	12262218ECD7.D	22L0155-34		1	NO MANUAL INTEGRATION
2207	12262219ECD7.D	22L0155-35		1	NO MANUAL INTEGRATION
2228	12262220ECD7.D	22L0155-36		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221226.b\221226.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2249	12262221ECD7.D	22L0155-37		1	NO MANUAL INTEGRATION
2311	12262222ECD7.D	22L0155-38		1	NO MANUAL INTEGRATION
2332	12262223ECD7.D	22L0155-39		1	NO MANUAL INTEGRATION
2353	12262224ECD7.D	22L0155-40		1	NO MANUAL INTEGRATION
0015	12262225ECD7.D	22L0155-46		1	NO MANUAL INTEGRATION
0036	12262226ECD7.D	AR1242CCV3		1	NO MANUAL INTEGRATION
0057	12262227ECD7.D	AR1660CCV4		1	NO MANUAL INTEGRATION
0119	12262228ECD7.D	22L0155-47		1	NO MANUAL INTEGRATION
0140	12262229ECD7.D	22L0155-48		1	NO MANUAL INTEGRATION
0202	12262230ECD7.D	22L0155-49		1	NO MANUAL INTEGRATION
0223	12262231ECD7.D	22L0155-50		1	NO MANUAL INTEGRATION
0244	12262232ECD7.D	22L0155-54RE1		5	NO MANUAL INTEGRATION
0306	12262233ECD7.D	22L0155-56		1	NO MANUAL INTEGRATION
0327	12262234ECD7.D	22L0155-57RE1		5	NO MANUAL INTEGRATION
0348	12262235ECD7.D	22L0155-58RE1		5	NO MANUAL INTEGRATION
0410	12262236ECD7.D	22L0155-59RE1		5	NO MANUAL INTEGRATION
0431	12262237ECD7.D	22L0155-60RE1		5	NO MANUAL INTEGRATION
0452	12262238ECD7.D	AR1254CCV5		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221226.b\221226.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0514	12262239ECD7.D	AR1660CCV6		1	NO MANUAL INTEGRATION
0535	12262240ECD7.D	BKL0548-BLK1		1	NO MANUAL INTEGRATION
0557	12262241ECD7.D	BKL0548-BS1		1	NO MANUAL INTEGRATION
0618	12262242ECD7.D	BKL0548-BSD1		1	NO MANUAL INTEGRATION
0639	12262243ECD7.D	BKL0548-SRM1		1	NO MANUAL INTEGRATION
0701	12262244ECD7.D	22L0136-09		1	NO MANUAL INTEGRATION
0722	12262245ECD7.D	BKL0548-MS1		1	NO MANUAL INTEGRATION
0743	12262246ECD7.D	BKL0548-MSD1		1	NO MANUAL INTEGRATION
0805	12262247ECD7.D	22L0136-11		1	NO MANUAL INTEGRATION
0826	12262248ECD7.D	BKL0353-BLK1		1	NO MANUAL INTEGRATION
0847	12262249ECD7.D	BKL0353-BS1		1	NO MANUAL INTEGRATION
0909	12262250ECD7.D	BKL0353-BSD1		1	NO MANUAL INTEGRATION
0930	12262251ECD7.D	BKL0353-MRL1		1	NO MANUAL INTEGRATION
0952	12262252ECD7.D	BKL0353-MRL2		1	NO MANUAL INTEGRATION
1013	12262253ECD7.D	22L0241-01		1	NO MANUAL INTEGRATION
1034	12262254ECD7.D	AR1248CCV7		1	NO MANUAL INTEGRATION
1056	12262255ECD7.D	AR1660CCV8		1	NO MANUAL INTEGRATION
1117	12262256ECD7.D	BKL0366-BLK		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221226.b\221226.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1138	12262257ECD7.D	BKL0366-BS1		1	NO MANUAL INTEGRATION
1200	12262258ECD7.D	BKL0366-BSD1		1	NO MANUAL INTEGRATION
1221	12262259ECD7.D	BKL0366-MRL1		1	NO MANUAL INTEGRATION
1242	12262260ECD7.D	BKL0366-MRL2		1	NO MANUAL INTEGRATION
1304	12262261ECD7.D	BKL0366-SRM1		1	NO MANUAL INTEGRATION
1325	12262262ECD7.D	22L0155-61		1	NO MANUAL INTEGRATION
1347	12262263ECD7.D	22L0155-62		1	NO MANUAL INTEGRATION
1408	12262264ECD7.D	22L0155-63		1	NO MANUAL INTEGRATION
1429	12262265ECD7.D	22L0155-64		1	NO MANUAL INTEGRATION
1451	12262266ECD7.D	22L0156-01		1	NO MANUAL INTEGRATION
1516	12262267ECD7.D	22L0156-02		1	NO MANUAL INTEGRATION
1537	12262268ECD7.D	AR1242CCV9		1	NO MANUAL INTEGRATION
1558	12262269ECD7.D	AR1660CCVA		1	NO MANUAL INTEGRATION

Security Status Report

Date: 29-Dec-2022 12:18

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Security Status Report

Date: 29-Dec-2022 13:04

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12262208ECD7.D	Data Locked	richardl, 29-Dec-2022 12:18
12262209ECD7.D	Data Locked	richardl, 29-Dec-2022 12:18
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12262213ECD7.D	Data Locked	richardl, 29-Dec-2022 12:18
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12262221ECD7.D	Data Locked	richardl, 29-Dec-2022 12:18
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Security Status Report

Date: 31-Dec-2022 11:17

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12262237ECD7.D	Data Locked	richardl, 31-Dec-2022 11:17
12262238ECD7.D	Data Locked	richardl, 31-Dec-2022 11:17
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SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0048
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKL0048-SCV1 (Water)			Lab File ID: 12032222ECD7.D			Analyzed: 12/03/22 22:13		
Decachlorobiphenyl	40.000	99.5	80 - 120	13.909	13.90667	0.0023	N/A	
Tetrachlorometaxylene	40.000	90.3	80 - 120	5.836	5.835333	0.0007	N/A	
Decachlorobiphenyl [2C]	40.000	95.4	80 - 120	14.137	14.13533	0.0017	N/A	
Tetrachlorometaxylene [2C]	40.000	90.2	80 - 120	5.713	5.712333	0.0007	N/A	
SKL0048-SCV2 (Water)			Lab File ID: 12032223ECD7.D			Analyzed: 12/03/22 22:34		
Decachlorobiphenyl	40.000	97.9	80 - 120	13.909	13.90667	0.0023	N/A	
Tetrachlorometaxylene	40.000	88.9	80 - 120	5.835	5.835333	-0.0003	N/A	
Decachlorobiphenyl [2C]	40.000	95.0	80 - 120	14.136	14.13533	0.0007	N/A	
Tetrachlorometaxylene [2C]	40.000	89.5	80 - 120	5.712	5.712333	-0.0003	N/A	
SKL0048-SCV3 (Water)			Lab File ID: 12032224ECD7.D			Analyzed: 12/03/22 22:55		
Decachlorobiphenyl	40.000	98.3	80 - 120	13.909	13.90667	0.0023	N/A	
Tetrachlorometaxylene	40.000	86.8	80 - 120	5.836	5.835333	0.0007	N/A	
Decachlorobiphenyl [2C]	40.000	95.2	80 - 120	14.136	14.13533	0.0007	N/A	
Tetrachlorometaxylene [2C]	40.000	87.7	80 - 120	5.712	5.712333	-0.0003	N/A	
SKL0048-SCV4 (Water)			Lab File ID: 12032225ECD7.D			Analyzed: 12/03/22 23:17		
Decachlorobiphenyl	40.000	98.9	80 - 120	13.909	13.90667	0.0023	N/A	
Tetrachlorometaxylene	40.000	88.8	80 - 120	5.836	5.835333	0.0007	N/A	
Decachlorobiphenyl [2C]	40.000	95.2	80 - 120	14.136	14.13533	0.0007	N/A	
Tetrachlorometaxylene [2C]	40.000	90.0	80 - 120	5.713	5.712333	0.0007	N/A	
SKL0048-SCV5 (Water)			Lab File ID: 12032226ECD7.D			Analyzed: 12/03/22 23:38		
Decachlorobiphenyl	40.000	100	80 - 120	13.907	13.90667	0.0003	N/A	
Tetrachlorometaxylene	40.000	90.2	80 - 120	5.836	5.835333	0.0007	N/A	
Decachlorobiphenyl [2C]	40.000	96.1	80 - 120	14.136	14.13533	0.0007	N/A	
Tetrachlorometaxylene [2C]	40.000	89.2	80 - 120	5.713	5.712333	0.0007	N/A	
SKL0048-SCV6 (Water)			Lab File ID: 12032227ECD7.D			Analyzed: 12/03/22 23:59		
Decachlorobiphenyl	40.000	140	80 - 120	13.906	13.90667	-0.0007	N/A	
Tetrachlorometaxylene	40.000	86.2	80 - 120	5.833	5.835333	-0.0023	N/A	
Decachlorobiphenyl [2C]	40.000	137	80 - 120	14.136	14.13533	0.0007	N/A	
Tetrachlorometaxylene [2C]	40.000	85.6	80 - 120	5.711	5.712333	-0.0013	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG/WO:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0280	Instrument:	ECD7
Calibration:	FL00010	Calibration Date:	12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKL0280-ICV1 (Solid)			Lab File ID: 12172203ECD7.D			Analyzed: 12/17/22 09:59		
Decachlorobiphenyl	40.000	105	80 - 120	13.907	13.90667	0.0003	N/A	
Tetrachlorometaxylene	40.000	94.8	80 - 120	5.836	5.835333	0.0007	N/A	
Decachlorobiphenyl [2C]	40.000	97.0	80 - 120	14.135	14.13533	-0.0003	N/A	
Tetrachlorometaxylene [2C]	40.000	93.0	80 - 120	5.712	5.712333	-0.0003	N/A	
SKL0280-ICV2 (Solid)			Lab File ID: 12172204ECD7.D			Analyzed: 12/17/22 10:20		
Decachlorobiphenyl	40.000	107	80 - 120	13.907	13.90667	0.0003	N/A	
Tetrachlorometaxylene	40.000	102	80 - 120	5.837	5.835333	0.0017	N/A	
Decachlorobiphenyl [2C]	40.000	95.5	80 - 120	14.134	14.13533	-0.0013	N/A	
Tetrachlorometaxylene [2C]	40.000	97.3	80 - 120	5.714	5.712333	0.0017	N/A	
BKL0190-BLK1 (Solid)			Lab File ID: 12172205ECD7.D			Analyzed: 12/17/22 10:41		
Decachlorobiphenyl	8.0000	113	40 - 126	13.905	13.90667	-0.0017	N/A	
Tetrachlorometaxylene	8.0000	94.2	44 - 120	5.835	5.835333	-0.0003	N/A	
Decachlorobiphenyl [2C]	8.0000	103	40 - 126	14.133	14.13533	-0.0023	N/A	
Tetrachlorometaxylene [2C]	8.0000	88.1	44 - 120	5.712	5.712333	-0.0003	N/A	
BKL0190-BS1 (Solid)			Lab File ID: 12172206ECD7.D			Analyzed: 12/17/22 11:03		
Decachlorobiphenyl	8.0000	106	40 - 126	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	8.0000	95.4	44 - 120	5.834	5.835333	-0.0013	N/A	
Decachlorobiphenyl [2C]	8.0000	103	40 - 126	14.133	14.13533	-0.0023	N/A	
Tetrachlorometaxylene [2C]	8.0000	88.5	44 - 120	5.712	5.712333	-0.0003	N/A	
BKL0190-BSD1 (Solid)			Lab File ID: 12172207ECD7.D			Analyzed: 12/17/22 11:24		
Decachlorobiphenyl	8.0000	106	40 - 126	13.905	13.90667	-0.0017	N/A	
Tetrachlorometaxylene	8.0000	90.0	44 - 120	5.833	5.835333	-0.0023	N/A	
Decachlorobiphenyl [2C]	8.0000	102	40 - 126	14.134	14.13533	-0.0013	N/A	
Tetrachlorometaxylene [2C]	8.0000	83.3	44 - 120	5.709	5.712333	-0.0033	N/A	
BKL0190-SRM1 (Solid)			Lab File ID: 12172208ECD7.D			Analyzed: 12/17/22 11:45		
Decachlorobiphenyl	40.000	101	40 - 126	13.899	13.90667	-0.0077	N/A	
Tetrachlorometaxylene	40.000	80.7	44 - 120	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	87.8	40 - 126	14.129	14.13533	-0.0063	N/A	
Tetrachlorometaxylene [2C]	40.000	81.1	44 - 120	5.709	5.712333	-0.0033	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0280
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BKL0190-MS1 (Solid)			Lab File ID: 12172209ECD7.D			Analyzed: 12/17/22 12:07		
Decachlorobiphenyl	7.9687	103	40 - 126	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	7.9687	83.3	44 - 120	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	7.9687	92.5	40 - 126	14.13	14.13533	-0.0053	N/A	
Tetrachlorometaxylene [2C]	7.9687	84.2	44 - 120	5.709	5.712333	-0.0033	N/A	
BKL0190-MSD1 (Solid)			Lab File ID: 12172210ECD7.D			Analyzed: 12/17/22 12:28		
Decachlorobiphenyl	7.9687	110	40 - 126	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	7.9687	86.8	44 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	7.9687	97.9	40 - 126	14.13	14.13533	-0.0053	N/A	
Tetrachlorometaxylene [2C]	7.9687	87.0	44 - 120	5.708	5.712333	-0.0043	N/A	
22L0136-01 (Solid)			Lab File ID: 12172213ECD7.D			Analyzed: 12/17/22 13:31		
Decachlorobiphenyl	7.9915	102	40 - 126	13.898	13.90667	-0.0087	N/A	
Tetrachlorometaxylene	7.9915	81.9	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	7.9915	91.6	40 - 126	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	7.9915	82.6	44 - 120	5.706	5.712333	-0.0063	N/A	
22L0136-02 (Solid)			Lab File ID: 12172214ECD7.D			Analyzed: 12/17/22 13:53		
Decachlorobiphenyl	7.9687	102	40 - 126	13.899	13.90667	-0.0077	N/A	
Tetrachlorometaxylene	7.9687	80.7	44 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	7.9687	92.8	40 - 126	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	7.9687	79.6	44 - 120	5.708	5.712333	-0.0043	N/A	
SKL0280-CCV1 (Solid)			Lab File ID: 12172215ECD7.D			Analyzed: 12/17/22 14:14		
Decachlorobiphenyl	40.000	107	80 - 120	13.907	13.90667	0.0003	N/A	
Tetrachlorometaxylene	40.000	93.0	80 - 120	5.835	5.835333	-0.0003	N/A	
Decachlorobiphenyl [2C]	40.000	94.8	80 - 120	14.134	14.13533	-0.0013	N/A	
Tetrachlorometaxylene [2C]	40.000	91.5	80 - 120	5.712	5.712333	-0.0003	N/A	
SKL0280-CCV2 (Solid)			Lab File ID: 12172216ECD7.D			Analyzed: 12/17/22 14:35		
Decachlorobiphenyl	40.000	108	80 - 120	13.906	13.90667	-0.0007	N/A	
Tetrachlorometaxylene	40.000	104	80 - 120	5.834	5.835333	-0.0013	N/A	
Decachlorobiphenyl [2C]	40.000	95.0	80 - 120	14.133	14.13533	-0.0023	N/A	
Tetrachlorometaxylene [2C]	40.000	98.3	80 - 120	5.711	5.712333	-0.0013	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0280
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
22L0136-03 (Solid)			Lab File ID: 12172217ECD7.D				Analyzed: 12/17/22 14:56	
Decachlorobiphenyl	7.9997	107	40 - 126	13.9	13.90667	-0.0067	N/A	
Tetrachlorometaxylene	7.9997	85.3	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	7.9997	97.7	40 - 126	14.129	14.13533	-0.0063	N/A	
Tetrachlorometaxylene [2C]	7.9997	87.9	44 - 120	5.707	5.712333	-0.0053	N/A	
22L0136-04 (Solid)			Lab File ID: 12172218ECD7.D				Analyzed: 12/17/22 15:18	
Decachlorobiphenyl	7.9876	104	40 - 126	13.897	13.90667	-0.0097	N/A	
Tetrachlorometaxylene	7.9876	78.4	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	7.9876	86.9	40 - 126	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	7.9876	79.8	44 - 120	5.707	5.712333	-0.0053	N/A	
22L0136-05 (Solid)			Lab File ID: 12172219ECD7.D				Analyzed: 12/17/22 15:39	
Decachlorobiphenyl	7.9891	109	40 - 126	13.9	13.90667	-0.0067	N/A	
Tetrachlorometaxylene	7.9891	90.4	44 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	7.9891	96.1	40 - 126	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	7.9891	94.4	44 - 120	5.708	5.712333	-0.0043	N/A	
22L0136-06 (Solid)			Lab File ID: 12172220ECD7.D				Analyzed: 12/17/22 16:00	
Decachlorobiphenyl	7.9738	92.6	40 - 126	13.897	13.90667	-0.0097	N/A	
Tetrachlorometaxylene	7.9738	75.3	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	7.9738	80.8	40 - 126	14.125	14.13533	-0.0103	N/A	
Tetrachlorometaxylene [2C]	7.9738	77.2	44 - 120	5.706	5.712333	-0.0063	N/A	
22L0136-07 (Solid)			Lab File ID: 12172221ECD7.D				Analyzed: 12/17/22 16:21	
Decachlorobiphenyl	7.9923	101	40 - 126	13.896	13.90667	-0.0107	N/A	
Tetrachlorometaxylene	7.9923	76.5	44 - 120	5.828	5.835333	-0.0073	N/A	
Decachlorobiphenyl [2C]	7.9923	86.3	40 - 126	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	7.9923	81.9	44 - 120	5.705	5.712333	-0.0073	N/A	
22L0136-08 (Solid)			Lab File ID: 12172222ECD7.D				Analyzed: 12/17/22 16:42	
Decachlorobiphenyl	8.0040	91.5	40 - 126	13.897	13.90667	-0.0097	N/A	
Tetrachlorometaxylene	8.0040	74.1	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	8.0040	82.9	40 - 126	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	8.0040	75.2	44 - 120	5.706	5.712333	-0.0063	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0280
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
22L0136-10 (Solid)			Lab File ID: 12172224ECD7.D			Analyzed: 12/17/22 17:25		
Decachlorobiphenyl	7.9759	103	40 - 126	13.896	13.90667	-0.0107	N/A	
Tetrachlorometaxylene	7.9759	78.5	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	7.9759	90.1	40 - 126	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	7.9759	83.5	44 - 120	5.706	5.712333	-0.0063	N/A	
22L0136-12 (Solid)			Lab File ID: 12172226ECD7.D			Analyzed: 12/17/22 18:07		
Decachlorobiphenyl	7.9914	98.9	40 - 126	13.897	13.90667	-0.0097	N/A	
Tetrachlorometaxylene	7.9914	77.1	44 - 120	5.828	5.835333	-0.0073	N/A	
Decachlorobiphenyl [2C]	7.9914	85.2	40 - 126	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	7.9914	78.6	44 - 120	5.705	5.712333	-0.0073	N/A	
SKL0280-CCV3 (Solid)			Lab File ID: 12172227ECD7.D			Analyzed: 12/17/22 18:29		
Decachlorobiphenyl	40.000	107	80 - 120	13.906	13.90667	-0.0007	N/A	
Tetrachlorometaxylene	40.000	95.0	80 - 120	5.835	5.835333	-0.0003	N/A	
Decachlorobiphenyl [2C]	40.000	93.5	80 - 120	14.132	14.13533	-0.0033	N/A	
Tetrachlorometaxylene [2C]	40.000	94.5	80 - 120	5.712	5.712333	-0.0003	N/A	
SKL0280-CCV4 (Solid)			Lab File ID: 12172228ECD7.D			Analyzed: 12/17/22 18:50		
Decachlorobiphenyl	40.000	112	80 - 120	13.904	13.90667	-0.0027	N/A	
Tetrachlorometaxylene	40.000	102	80 - 120	5.835	5.835333	-0.0003	N/A	
Decachlorobiphenyl [2C]	40.000	95.5	80 - 120	14.132	14.13533	-0.0033	N/A	
Tetrachlorometaxylene [2C]	40.000	98.0	80 - 120	5.711	5.712333	-0.0013	N/A	
SKL0280-CCV5 (Solid)			Lab File ID: 12172237ECD7.D			Analyzed: 12/17/22 22:01		
Decachlorobiphenyl	40.000	102	80 - 120	13.906	13.90667	-0.0007	N/A	
Tetrachlorometaxylene	40.000	91.8	80 - 120	5.836	5.835333	0.0007	N/A	
Decachlorobiphenyl [2C]	40.000	95.3	80 - 120	14.133	14.13533	-0.0023	N/A	
Tetrachlorometaxylene [2C]	40.000	90.8	80 - 120	5.712	5.712333	-0.0003	N/A	
SKL0280-CCV6 (Solid)			Lab File ID: 12172238ECD7.D			Analyzed: 12/17/22 22:22		
Decachlorobiphenyl	40.000	106	80 - 120	13.905	13.90667	-0.0017	N/A	
Tetrachlorometaxylene	40.000	102	80 - 120	5.834	5.835333	-0.0013	N/A	
Decachlorobiphenyl [2C]	40.000	93.5	80 - 120	14.133	14.13533	-0.0023	N/A	
Tetrachlorometaxylene [2C]	40.000	98.5	80 - 120	5.711	5.712333	-0.0013	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0280
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKL0280-CCV7 (Solid)			Lab File ID: 12172252ECD7.D				Analyzed: 12/18/22 03:20	
Decachlorobiphenyl	40.000	108	80 - 120	13.904	13.90667	-0.0027	N/A	
Tetrachlorometaxylene	40.000	93.3	80 - 120	5.834	5.835333	-0.0013	N/A	
Decachlorobiphenyl [2C]	40.000	99.5	80 - 120	14.132	14.13533	-0.0033	N/A	
Tetrachlorometaxylene [2C]	40.000	92.8	80 - 120	5.711	5.712333	-0.0013	N/A	
SKL0280-CCV8 (Solid)			Lab File ID: 12172253ECD7.D				Analyzed: 12/18/22 03:41	
Decachlorobiphenyl	40.000	113	80 - 120	13.905	13.90667	-0.0017	N/A	
Tetrachlorometaxylene	40.000	106	80 - 120	5.835	5.835333	-0.0003	N/A	
Decachlorobiphenyl [2C]	40.000	101	80 - 120	14.132	14.13533	-0.0033	N/A	
Tetrachlorometaxylene [2C]	40.000	99.8	80 - 120	5.712	5.712333	-0.0003	N/A	
SKL0280-CCV9 (Solid)			Lab File ID: 12172264ECD7.D				Analyzed: 12/18/22 07:35	
Decachlorobiphenyl	40.000	111	80 - 120	13.904	13.90667	-0.0027	N/A	
Tetrachlorometaxylene	40.000	94.0	80 - 120	5.834	5.835333	-0.0013	N/A	
Decachlorobiphenyl [2C]	40.000	101	80 - 120	14.133	14.13533	-0.0023	N/A	
Tetrachlorometaxylene [2C]	40.000	92.5	80 - 120	5.712	5.712333	-0.0003	N/A	
SKL0280-CCVA (Solid)			Lab File ID: 12172265ECD7.D				Analyzed: 12/18/22 07:56	
Decachlorobiphenyl	40.000	116	80 - 120	13.904	13.90667	-0.0027	N/A	
Tetrachlorometaxylene	40.000	103	80 - 120	5.835	5.835333	-0.0003	N/A	
Decachlorobiphenyl [2C]	40.000	101	80 - 120	14.132	14.13533	-0.0033	N/A	
Tetrachlorometaxylene [2C]	40.000	101	80 - 120	5.712	5.712333	-0.0003	N/A	
SKL0280-CCVB (Solid)			Lab File ID: 12172279ECD7.D				Analyzed: 12/18/22 12:54	
Decachlorobiphenyl	40.000	102	80 - 120	13.904	13.90667	-0.0027	N/A	
Tetrachlorometaxylene	40.000	93.0	80 - 120	5.834	5.835333	-0.0013	N/A	
Decachlorobiphenyl [2C]	40.000	98.5	80 - 120	14.131	14.13533	-0.0043	N/A	
Tetrachlorometaxylene [2C]	40.000	90.8	80 - 120	5.711	5.712333	-0.0013	N/A	
SKL0280-CCVC (Solid)			Lab File ID: 12172280ECD7.D				Analyzed: 12/18/22 13:15	
Decachlorobiphenyl	40.000	107	80 - 120	13.905	13.90667	-0.0017	N/A	
Tetrachlorometaxylene	40.000	105	80 - 120	5.833	5.835333	-0.0023	N/A	
Decachlorobiphenyl [2C]	40.000	98.0	80 - 120	14.133	14.13533	-0.0023	N/A	
Tetrachlorometaxylene [2C]	40.000	100	80 - 120	5.71	5.712333	-0.0023	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0359
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKL0359-ICV1 (Solid)			Lab File ID: 12262202ECD7.D			Analyzed: 12/26/22 16:04		
Decachlorobiphenyl	40.000	119	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	104	80 - 120	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	117	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	101	80 - 120	5.708	5.712333	-0.0043	N/A	
SKL0359-ICV2 (Solid)			Lab File ID: 12262203ECD7.D			Analyzed: 12/26/22 16:26		
Decachlorobiphenyl	40.000	117	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	115	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	118	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	111	80 - 120	5.707	5.712333	-0.0053	N/A	
SKL0359-CCV1 (Solid)			Lab File ID: 12262214ECD7.D			Analyzed: 12/26/22 20:20		
Decachlorobiphenyl	40.000	109	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	98.8	80 - 120	5.833	5.835333	-0.0023	N/A	
Decachlorobiphenyl [2C]	40.000	113	80 - 120	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	40.000	98.3	80 - 120	5.709	5.712333	-0.0033	N/A	
SKL0359-CCV2 (Solid)			Lab File ID: 12262215ECD7.D			Analyzed: 12/26/22 20:41		
Decachlorobiphenyl	40.000	110	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	109	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	114	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	104	80 - 120	5.708	5.712333	-0.0043	N/A	
SKL0359-CCV3 (Solid)			Lab File ID: 12262226ECD7.D			Analyzed: 12/27/22 00:36		
Decachlorobiphenyl	40.000	107	80 - 120	13.9	13.90667	-0.0067	N/A	
Tetrachlorometaxylene	40.000	103	80 - 120	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	109	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	103	80 - 120	5.709	5.712333	-0.0033	N/A	
SKL0359-CCV4 (Solid)			Lab File ID: 12262227ECD7.D			Analyzed: 12/27/22 00:57		
Decachlorobiphenyl	40.000	117	80 - 120	13.9	13.90667	-0.0067	N/A	
Tetrachlorometaxylene	40.000	107	80 - 120	5.833	5.835333	-0.0023	N/A	
Decachlorobiphenyl [2C]	40.000	111	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	106	80 - 120	5.709	5.712333	-0.0033	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0359
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKL0359-CCV5 (Solid)			Lab File ID: 12262238ECD7.D			Analyzed: 12/27/22 04:52		
Decachlorobiphenyl	40.000	112	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	98.0	80 - 120	5.833	5.835333	-0.0023	N/A	
Decachlorobiphenyl [2C]	40.000	108	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	96.0	80 - 120	5.709	5.712333	-0.0033	N/A	
SKL0359-CCV6 (Solid)			Lab File ID: 12262239ECD7.D			Analyzed: 12/27/22 05:14		
Decachlorobiphenyl	40.000	112	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	108	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	108	80 - 120	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	40.000	104	80 - 120	5.707	5.712333	-0.0053	N/A	
BKL0548-BLK1 (Solid)			Lab File ID: 12262240ECD7.D			Analyzed: 12/27/22 05:35		
Decachlorobiphenyl	8.0000	106	40 - 126	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	8.0000	80.4	44 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	8.0000	102	40 - 126	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	8.0000	79.5	44 - 120	5.707	5.712333	-0.0053	N/A	
BKL0548-BS1 (Solid)			Lab File ID: 12262241ECD7.D			Analyzed: 12/27/22 05:57		
Decachlorobiphenyl	8.0000	110	40 - 126	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	8.0000	92.0	44 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	8.0000	116	40 - 126	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	8.0000	89.5	44 - 120	5.707	5.712333	-0.0053	N/A	
BKL0548-BSD1 (Solid)			Lab File ID: 12262242ECD7.D			Analyzed: 12/27/22 06:18		
Decachlorobiphenyl	8.0000	104	40 - 126	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	8.0000	88.7	44 - 120	5.828	5.835333	-0.0073	N/A	
Decachlorobiphenyl [2C]	8.0000	112	40 - 126	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	8.0000	86.1	44 - 120	5.705	5.712333	-0.0073	N/A	
BKL0548-SRM1 (Solid)			Lab File ID: 12262243ECD7.D			Analyzed: 12/27/22 06:39		
Decachlorobiphenyl	40.000	104	40 - 126	13.896	13.90667	-0.0107	N/A	
Tetrachlorometaxylene	40.000	78.4	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	40.000	101	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	40.000	87.1	44 - 120	5.705	5.712333	-0.0073	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG/WO:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0359	Instrument:	ECD7
Calibration:	FL00010	Calibration Date:	12/03/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
22L0136-09RE1 (Solid)			Lab File ID: 12262244ECD7.D			Analyzed: 12/27/22 07:01		
Decachlorobiphenyl	7.9880	104	40 - 126	13.896	13.90667	-0.0107	N/A	
Tetrachlorometaxylene	7.9880	80.7	44 - 120	5.827	5.835333	-0.0083	N/A	
Decachlorobiphenyl [2C]	7.9880	104	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	7.9880	87.9	44 - 120	5.705	5.712333	-0.0073	N/A	
BKL0548-MS1 (Solid)			Lab File ID: 12262245ECD7.D			Analyzed: 12/27/22 07:22		
Decachlorobiphenyl	7.9976	105	40 - 126	13.896	13.90667	-0.0107	N/A	
Tetrachlorometaxylene	7.9976	86.3	44 - 120	5.828	5.835333	-0.0073	N/A	
Decachlorobiphenyl [2C]	7.9976	106	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	7.9976	86.0	44 - 120	5.705	5.712333	-0.0073	N/A	
BKL0548-MSD1 (Solid)			Lab File ID: 12262246ECD7.D			Analyzed: 12/27/22 07:43		
Decachlorobiphenyl	7.9976	100	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	7.9976	82.4	44 - 120	5.828	5.835333	-0.0073	N/A	
Decachlorobiphenyl [2C]	7.9976	100	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	7.9976	83.7	44 - 120	5.705	5.712333	-0.0073	N/A	
22L0136-11RE1 (Solid)			Lab File ID: 12262247ECD7.D			Analyzed: 12/27/22 08:05		
Decachlorobiphenyl	8.0011	96.7	40 - 126	13.894	13.90667	-0.0127	N/A	
Tetrachlorometaxylene	8.0011	67.4	44 - 120	5.826	5.835333	-0.0093	N/A	
Decachlorobiphenyl [2C]	8.0011	95.4	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	8.0011	79.5	44 - 120	5.703	5.712333	-0.0093	N/A	
SKL0359-CCV7 (Solid)			Lab File ID: 12262254ECD7.D			Analyzed: 12/27/22 10:34		
Decachlorobiphenyl	40.000	107	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	96.0	80 - 120	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	107	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	98.0	80 - 120	5.709	5.712333	-0.0033	N/A	
SKL0359-CCV8 (Solid)			Lab File ID: 12262255ECD7.D			Analyzed: 12/27/22 10:56		
Decachlorobiphenyl	40.000	110	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	108	80 - 120	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	109	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	105	80 - 120	5.708	5.712333	-0.0043	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG/WO:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0359	Instrument:	ECD7
Calibration:	FL00010	Calibration Date:	12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKL0359-CCV9 (Solid)			Lab File ID: 12262268ECD7.D			Analyzed: 12/27/22 15:37		
Decachlorobiphenyl	40.000	108	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	98.8	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	104	80 - 120	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	40.000	98.8	80 - 120	5.707	5.712333	-0.0053	N/A	
SKL0359-CCVA (Solid)			Lab File ID: 12262269ECD7.D			Analyzed: 12/27/22 15:58		
Decachlorobiphenyl	40.000	118	80 - 120	13.9	13.90667	-0.0067	N/A	
Tetrachlorometaxylene	40.000	108	80 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	40.000	107	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	106	80 - 120	5.707	5.712333	-0.0053	N/A	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0048	Instrument:	ECD7
		Calibration:	FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Secondary Cal Check (SKL0048-SCV1)		(Water)	Lab File ID: 12032222ECD7.D				Analyzed: 12/03/22 22:13		
1-Bromo-2-Nitrobenzene	483506	3.518	457669	3.516	106	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl	892033	14.281	837264	14.278	107	50 - 200	0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	270882	3.956	254712	3.955	106	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	432562	15.023	387892	15.021	112	50 - 200	0.002	+/-0.50	
Secondary Cal Check (SKL0048-SCV2)		(Water)	Lab File ID: 12032223ECD7.D				Analyzed: 12/03/22 22:34		
1-Bromo-2-Nitrobenzene	480791	3.515	457669	3.516	105	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	896515	14.281	837264	14.278	107	50 - 200	0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	270117	3.955	254712	3.955	106	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	422729	15.023	387892	15.021	109	50 - 200	0.002	+/-0.50	
Secondary Cal Check (SKL0048-SCV3)		(Water)	Lab File ID: 12032224ECD7.D				Analyzed: 12/03/22 22:55		
1-Bromo-2-Nitrobenzene	484977	3.515	457669	3.516	106	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	915518	14.281	837264	14.278	109	50 - 200	0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	272055	3.955	254712	3.955	107	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	426674	15.023	387892	15.021	110	50 - 200	0.002	+/-0.50	
Secondary Cal Check (SKL0048-SCV4)		(Water)	Lab File ID: 12032225ECD7.D				Analyzed: 12/03/22 23:17		
1-Bromo-2-Nitrobenzene	484642	3.516	457669	3.516	106	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	917405	14.28	837264	14.278	110	50 - 200	0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	270782	3.955	254712	3.955	106	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	431238	15.024	387892	15.021	111	50 - 200	0.003	+/-0.50	
Secondary Cal Check (SKL0048-SCV5)		(Water)	Lab File ID: 12032226ECD7.D				Analyzed: 12/03/22 23:38		
1-Bromo-2-Nitrobenzene	482097	3.517	457669	3.516	105	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	913775	14.28	837264	14.278	109	50 - 200	0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	268757	3.956	254712	3.955	106	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	434790	15.024	387892	15.021	112	50 - 200	0.003	+/-0.50	
Secondary Cal Check (SKL0048-SCV6)		(Water)	Lab File ID: 12032227ECD7.D				Analyzed: 12/03/22 23:59		
1-Bromo-2-Nitrobenzene	483276	3.514	457669	3.516	106	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl	920878	14.281	837264	14.278	110	50 - 200	0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	270175	3.953	254712	3.955	106	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	435731	15.023	387892	15.021	112	50 - 200	0.002	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0280
Instrument: ECD7
Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SKL0280-ICV1)		(Solid)	Lab File ID: 12172203ECD7.D				Analyzed: 12/17/22 09:59		
1-Bromo-2-Nitrobenzene	422211	3.516	422211	3.516	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	980480	14.28	980480	14.28	100	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	251404	3.954	251404	3.954	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	443839	15.022	443839	15.022	100	50 - 200	0.000	+/-0.50	
Initial Cal Check (SKL0280-ICV2)		(Solid)	Lab File ID: 12172204ECD7.D				Analyzed: 12/17/22 10:20		
1-Bromo-2-Nitrobenzene	355578	3.517	422211	3.516	84	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	870324	14.28	980480	14.28	89	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	215452	3.956	251404	3.954	86	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl [2C]	398786	15.022	443839	15.022	90	50 - 200	0.000	+/-0.50	
Blank (BKL0190-BLK1)		(Solid)	Lab File ID: 12172205ECD7.D				Analyzed: 12/17/22 10:41		
1-Bromo-2-Nitrobenzene	470835	3.517	422211	3.516	112	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	1053859	14.276	980480	14.28	107	50 - 200	-0.004	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	283130	3.955	251404	3.954	113	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	497953	15.019	443839	15.022	112	50 - 200	-0.003	+/-0.50	
LCS (BKL0190-BS1)		(Solid)	Lab File ID: 12172206ECD7.D				Analyzed: 12/17/22 11:03		
1-Bromo-2-Nitrobenzene	500820	3.517	422211	3.516	119	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	1161515	14.277	980480	14.28	118	50 - 200	-0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	301209	3.955	251404	3.954	120	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	531830	15.021	443839	15.022	120	50 - 200	-0.001	+/-0.50	
LCS Dup (BKL0190-BSD1)		(Solid)	Lab File ID: 12172207ECD7.D				Analyzed: 12/17/22 11:24		
1-Bromo-2-Nitrobenzene	503514	3.515	422211	3.516	119	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	1181863	14.277	980480	14.28	121	50 - 200	-0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	303797	3.953	251404	3.954	121	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	543761	15.02	443839	15.022	123	50 - 200	-0.002	+/-0.50	
Reference (BKL0190-SRM1)		(Solid)	Lab File ID: 12172208ECD7.D				Analyzed: 12/17/22 11:45		
1-Bromo-2-Nitrobenzene	509622	3.516	422211	3.516	121	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	733042	14.265	980480	14.28	75	50 - 200	-0.015	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	292895	3.955	251404	3.954	117	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	435524	15.013	443839	15.022	98	50 - 200	-0.009	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0280
Instrument: ECD7
Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike (BKL0190-MS1)		(Solid)	Lab File ID: 12172209ECD7.D				Analyzed: 12/17/22 12:07		
1-Bromo-2-Nitrobenzene	509798	3.516	422211	3.516	121	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	875236	14.269	980480	14.28	89	50 - 200	-0.011	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	290749	3.954	251404	3.954	116	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	468734	15.015	443839	15.022	106	50 - 200	-0.007	+/-0.50	
Matrix Spike Dup (BKL0190-MSD1)		(Solid)	Lab File ID: 12172210ECD7.D				Analyzed: 12/17/22 12:28		
1-Bromo-2-Nitrobenzene	525565	3.516	422211	3.516	124	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	904869	14.27	980480	14.28	92	50 - 200	-0.010	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	296278	3.953	251404	3.954	118	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	481947	15.016	443839	15.022	109	50 - 200	-0.006	+/-0.50	
LDW22-SS823 (22L0136-01)		(Solid)	Lab File ID: 12172213ECD7.D				Analyzed: 12/17/22 13:31		
1-Bromo-2-Nitrobenzene	454828	3.515	422211	3.516	108	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	422443	14.261	870324	14.28	49	50 - 200	-0.019	+/-0.50	*
1-Bromo-2-Nitrobenzene [2C]	279064	3.953	251404	3.954	111	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	297343	15.01	398786	15.022	75	50 - 200	-0.012	+/-0.50	
LDW22-SS822 (22L0136-02)		(Solid)	Lab File ID: 12172214ECD7.D				Analyzed: 12/17/22 13:53		
1-Bromo-2-Nitrobenzene	499794	3.517	422211	3.516	118	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	638861	14.266	870324	14.28	73	50 - 200	-0.014	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	299026	3.954	251404	3.954	119	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	386588	15.012	398786	15.022	97	50 - 200	-0.010	+/-0.50	
LDW22-SS821 (22L0136-03)		(Solid)	Lab File ID: 12172217ECD7.D				Analyzed: 12/17/22 14:56		
1-Bromo-2-Nitrobenzene	519010	3.514	422211	3.516	123	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl	804729	14.266	870324	14.28	92	50 - 200	-0.014	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	289807	3.952	251404	3.954	115	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	436024	15.013	398786	15.022	109	50 - 200	-0.009	+/-0.50	
LDW22-SS820 (22L0136-04)		(Solid)	Lab File ID: 12172218ECD7.D				Analyzed: 12/17/22 15:18		
1-Bromo-2-Nitrobenzene	471538	3.516	422211	3.516	112	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	606248	14.262	870324	14.28	70	50 - 200	-0.018	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	276529	3.954	251404	3.954	110	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	391413	15.011	398786	15.022	98	50 - 200	-0.011	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0280
Instrument: ECD7
Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW22-SS819 (22L0136-05)		(Solid)	Lab File ID: 12172219ECD7.D				Analyzed: 12/17/22 15:39		
1-Bromo-2-Nitrobenzene	491692	3.516	422211	3.516	116	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	736313	14.268	870324	14.28	85	50 - 200	-0.012	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	274963	3.954	251404	3.954	109	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	428184	15.015	398786	15.022	107	50 - 200	-0.007	+/-0.50	
LDW22-SS818 (22L0136-06)		(Solid)	Lab File ID: 12172220ECD7.D				Analyzed: 12/17/22 16:00		
1-Bromo-2-Nitrobenzene	475573	3.515	422211	3.516	113	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	539662	14.261	870324	14.28	62	50 - 200	-0.019	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	273950	3.953	251404	3.954	109	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	351969	15.01	398786	15.022	88	50 - 200	-0.012	+/-0.50	
LDW22-SS811 (22L0136-07)		(Solid)	Lab File ID: 12172221ECD7.D				Analyzed: 12/17/22 16:21		
1-Bromo-2-Nitrobenzene	454011	3.513	422211	3.516	108	50 - 200	-0.003	+/-0.50	
Hexabromobiphenyl	453809	14.26	870324	14.28	52	50 - 200	-0.020	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	267237	3.952	251404	3.954	106	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	322642	15.01	398786	15.022	81	50 - 200	-0.012	+/-0.50	
LDW22-SS786 (22L0136-08)		(Solid)	Lab File ID: 12172222ECD7.D				Analyzed: 12/17/22 16:42		
1-Bromo-2-Nitrobenzene	468815	3.513	422211	3.516	111	50 - 200	-0.003	+/-0.50	
Hexabromobiphenyl	479155	14.261	870324	14.28	55	50 - 200	-0.019	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	283012	3.952	251404	3.954	113	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	316979	15.01	398786	15.022	79	50 - 200	-0.012	+/-0.50	
LDW22-SS771 (22L0136-10)		(Solid)	Lab File ID: 12172224ECD7.D				Analyzed: 12/17/22 17:25		
1-Bromo-2-Nitrobenzene	429492	3.517	422211	3.516	102	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	442756	14.26	870324	14.28	51	50 - 200	-0.020	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	259633	3.954	251404	3.954	103	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	309836	15.009	398786	15.022	78	50 - 200	-0.013	+/-0.50	
LDW22-SS772 (22L0136-12)		(Solid)	Lab File ID: 12172226ECD7.D				Analyzed: 12/17/22 18:07		
1-Bromo-2-Nitrobenzene	461193	3.514	422211	3.516	109	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl	508026	14.261	870324	14.28	58	50 - 200	-0.019	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	274295	3.952	251404	3.954	109	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	342634	15.011	398786	15.022	86	50 - 200	-0.011	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0359
Instrument: ECD7
Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SKL0359-ICV1)		(Solid)	Lab File ID: 12262202ECD7.D				Analyzed: 12/26/22 16:04		
1-Bromo-2-Nitrobenzene	433462	3.517	433462	3.517	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	751448	14.271	751448	14.271	100	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	279052	3.954	279052	3.954	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	347137	15.014	347137	15.014	100	50 - 200	0.000	+/-0.50	
Initial Cal Check (SKL0359-ICV2)		(Solid)	Lab File ID: 12262203ECD7.D				Analyzed: 12/26/22 16:26		
1-Bromo-2-Nitrobenzene	376203	3.516	433462	3.517	87	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	761215	14.27	751448	14.271	101	50 - 200	-0.001	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	244965	3.953	279052	3.954	88	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	350275	15.015	347137	15.014	101	50 - 200	0.001	+/-0.50	
Blank (BKL0548-BLK1)		(Solid)	Lab File ID: 12262240ECD7.D				Analyzed: 12/27/22 05:35		
1-Bromo-2-Nitrobenzene	532615	3.514	433462	3.517	123	50 - 200	-0.003	+/-0.50	
Hexabromobiphenyl	975810	14.273	751448	14.271	130	50 - 200	0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	339065	3.951	279052	3.954	122	50 - 200	-0.003	+/-0.50	
Hexabromobiphenyl [2C]	481300	15.013	347137	15.014	139	50 - 200	-0.001	+/-0.50	
LCS (BKL0548-BS1)		(Solid)	Lab File ID: 12262241ECD7.D				Analyzed: 12/27/22 05:57		
1-Bromo-2-Nitrobenzene	518549	3.514	433462	3.517	120	50 - 200	-0.003	+/-0.50	
Hexabromobiphenyl	1036780	14.272	751448	14.271	138	50 - 200	0.001	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	331333	3.951	279052	3.954	119	50 - 200	-0.003	+/-0.50	
Hexabromobiphenyl [2C]	473925	15.012	347137	15.014	137	50 - 200	-0.002	+/-0.50	
LCS Dup (BKL0548-BSD1)		(Solid)	Lab File ID: 12262242ECD7.D				Analyzed: 12/27/22 06:18		
1-Bromo-2-Nitrobenzene	522298	3.512	433462	3.517	120	50 - 200	-0.005	+/-0.50	
Hexabromobiphenyl	1068919	14.272	751448	14.271	142	50 - 200	0.001	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	336061	3.949	279052	3.954	120	50 - 200	-0.005	+/-0.50	
Hexabromobiphenyl [2C]	486888	15.012	347137	15.014	140	50 - 200	-0.002	+/-0.50	
Reference (BKL0548-SRM1)		(Solid)	Lab File ID: 12262243ECD7.D				Analyzed: 12/27/22 06:39		
1-Bromo-2-Nitrobenzene	565470	3.513	433462	3.517	130	50 - 200	-0.004	+/-0.50	
Hexabromobiphenyl	770395	14.262	751448	14.271	103	50 - 200	-0.009	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	335545	3.951	279052	3.954	120	50 - 200	-0.003	+/-0.50	
Hexabromobiphenyl [2C]	424778	15.007	347137	15.014	122	50 - 200	-0.007	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0359	Instrument:	ECD7
		Calibration:	FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW22-SS766 (22L0136-09RE1)		(Solid)		Lab File ID: 12262244ECD7.D				Analyzed: 12/27/22 07:01	
1-Bromo-2-Nitrobenzene	529002	3.514	376203	3.516	141	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl	728824	14.26	761215	14.27	96	50 - 200	-0.010	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	321434	3.951	244965	3.953	131	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	411761	15.007	350275	15.015	118	50 - 200	-0.008	+/-0.50	
Matrix Spike (BKL0548-MS1)		(Solid)		Lab File ID: 12262245ECD7.D				Analyzed: 12/27/22 07:22	
1-Bromo-2-Nitrobenzene	504610	3.514	433462	3.517	116	50 - 200	-0.003	+/-0.50	
Hexabromobiphenyl	658195	14.262	751448	14.271	88	50 - 200	-0.009	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	321371	3.952	279052	3.954	115	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	381174	15.008	347137	15.014	110	50 - 200	-0.006	+/-0.50	
Matrix Spike Dup (BKL0548-MSD1)		(Solid)		Lab File ID: 12262246ECD7.D				Analyzed: 12/27/22 07:43	
1-Bromo-2-Nitrobenzene	524674	3.514	433462	3.517	121	50 - 200	-0.003	+/-0.50	
Hexabromobiphenyl	693909	14.261	751448	14.271	92	50 - 200	-0.010	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	331761	3.951	279052	3.954	119	50 - 200	-0.003	+/-0.50	
Hexabromobiphenyl [2C]	404523	15.008	347137	15.014	117	50 - 200	-0.006	+/-0.50	
LDW22-SS771-FD (22L0136-11RE1)		(Solid)		Lab File ID: 12262247ECD7.D				Analyzed: 12/27/22 08:05	
1-Bromo-2-Nitrobenzene	514409	3.513	376203	3.516	137	50 - 200	-0.003	+/-0.50	
Hexabromobiphenyl	503227	14.259	761215	14.27	66	50 - 200	-0.011	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	306904	3.951	244965	3.953	125	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	338517	15.007	350275	15.015	97	50 - 200	-0.008	+/-0.50	

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0136
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0136-01	File ID:	12172213ECD7.D
Sampled:	12/06/22 09:41	Prepared:	12/08/22 14:38	Analyzed:	12/17/22 13:31
Solids:	51.20	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0190	Sequence:	SKL0280		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.413	8.427	0.014	22247.75	16.8	14.
	2	8.316	8.326	0.01	12089.5	14.6	
Aroclor 1254	1	9.3	9.318	0.018	34450.2	20.2	15.9
	* 2	9.453	9.466	0.013	26024.2	23.7	
Aroclor 1260	1	11.046	11.0625	0.0165	20573.2	20.6	14.8
	* 2	11.656	11.66983	0.0138	23313.5	23.9	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0136
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0136-04	File ID:	12172218ECD7.D
Sampled:	12/06/22 10:49	Prepared:	12/08/22 14:38	Analyzed:	12/17/22 15:18
Solids:	72.83	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0190	Sequence:	SKL0280		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1254	* 1	9.302	9.318	0.016	10966.4	6.7	31.
	2	9.458	9.466	0.008	5276	4.9	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0136
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0136-06	File ID:	12172220ECD7.D
Sampled:	12/06/22 11:24	Prepared:	12/08/22 14:38	Analyzed:	12/17/22 16:00
Solids:	60.82	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0190	Sequence:	SKL0280		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.414	8.427	0.013	14050.75	10.5	13.2
	2	8.317	8.326	0.009	6068.75	9.2	
Aroclor 1254	1	9.302	9.318	0.016	22194.8	11.8	2.5
	* 2	9.456	9.466	0.01	12873.2	12.1	
Aroclor 1260	* 1	11.047	11.0625	0.0155	10231.6	8.4	4.9
	2	11.657	11.66983	0.0128	9417.75	8.0	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0136
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0136-07	File ID:	12172221ECD7.D
Sampled:	12/06/22 12:05	Prepared:	12/08/22 14:38	Analyzed:	12/17/22 16:21
Solids:	47.52	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0190	Sequence:	SKL0280		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.412	8.427	0.015	32364.5	24.5	4.2
	2	8.316	8.326	0.01	18231.25	23.5	
Aroclor 1254	1	9.3	9.318	0.018	53735	24.8	35.8
	* 2	9.453	9.466	0.013	43520.2	35.6	
Aroclor 1260	* 1	11.045	11.0625	0.0175	32597.4	29.8	6.9
	2	11.657	11.66983	0.0128	30723.25	27.8	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0136
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0136-08	File ID:	12172222ECD7.D
Sampled:	12/06/22 12:26	Prepared:	12/08/22 14:38	Analyzed:	12/17/22 16:42
Solids:	65.93	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0190	Sequence:	SKL0280		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1254	1	9.302	9.318	0.016	145240	86.0	3.3
	* 2	9.454	9.466	0.012	101429.2	88.9	
Aroclor 1260	1	11.046	11.0625	0.0165	49982.8	42.7	1.6
	* 2	11.657	11.66983	0.0128	50230	43.4	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0136
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0136-10	File ID:	12172224ECD7.D
Sampled:	12/06/22 13:35	Prepared:	12/08/22 14:38	Analyzed:	12/17/22 17:25
Solids:	42.66	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0190	Sequence:	SKL0280		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.412	8.427	0.015	17871.5	14.4	5.
	2	8.316	8.326	0.01	8793.25	13.7	
Aroclor 1254	1	9.3	9.318	0.018	30904.2	16.7	20.4
	* 2	9.454	9.466	0.012	24278.8	20.5	
Aroclor 1260	1	11.047	11.0625	0.0155	17606.8	17.7	15.1
	* 2	11.656	11.66983	0.0138	20307.5	20.6	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0136
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0136-12	File ID:	12172226ECD7.D
Sampled:	12/06/22 13:57	Prepared:	12/08/22 14:38	Analyzed:	12/17/22 18:07
Solids:	38.91	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0190	Sequence:	SKL0280		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.415	8.427	0.012	16056.25	12.1	5.1
	2	8.316	8.326	0.01	7805	11.5	
Aroclor 1254	1	9.301	9.318	0.017	28131.2	13.4	25.4
	* 2	9.454	9.466	0.012	21858.4	17.3	
Aroclor 1260	1	11.046	11.0625	0.0165	20636.2	16.5	.6
	* 2	11.656	11.66983	0.0138	18344.5	16.6	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0136
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0136-09RE1	File ID:	12262244ECD7.D
Sampled:	12/06/22 13:16	Prepared:	12/22/22 16:19	Analyzed:	12/27/22 07:01
Solids:	75.46	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0548	Sequence:	SKL0359		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.412	8.427	0.015	15205	10.0	5.8
	* 2	8.313	8.326	0.013	8719.5	10.6	
Aroclor 1254	1	9.3	9.318	0.018	21605	11.2	28.4
	* 2	9.45	9.466	0.016	23698.2	14.9	
Aroclor 1260	1	11.045	11.0625	0.0175	37836.6	22.2	3.5
	* 2	11.653	11.66983	0.0168	34515.5	23.0	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0136
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0136-11RE1	File ID:	12262247ECD7.D
Sampled:	12/06/22 13:35	Prepared:	12/22/22 16:19	Analyzed:	12/27/22 08:05
Solids:	42.54	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0548	Sequence:	SKL0359		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1260	1	11.041	11.0625	0.0215	14582.4	14.2	11.9
	* 2	11.651	11.66983	0.0188	19767	16.0	

* Column used for quantitation

HOLDING TIME SUMMARY

Analysis: EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 22L0136

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-SS823 22L0136-01	12/06/22 09:41	12/06/22 16:40	12/08/22 14:38	2	365	12/17/22 13:31	9	40	
LDW22-SS822 22L0136-02	12/06/22 10:10	12/06/22 16:40	12/08/22 14:38	2	365	12/17/22 13:53	9	40	
LDW22-SS821 22L0136-03	12/06/22 10:23	12/06/22 16:40	12/08/22 14:38	2	365	12/17/22 14:56	9	40	
LDW22-SS820 22L0136-04	12/06/22 10:49	12/06/22 16:40	12/08/22 14:38	2	365	12/17/22 15:18	9	40	
LDW22-SS819 22L0136-05	12/06/22 11:11	12/06/22 16:40	12/08/22 14:38	2	365	12/17/22 15:39	9	40	
LDW22-SS818 22L0136-06	12/06/22 11:24	12/06/22 16:40	12/08/22 14:38	2	365	12/17/22 16:00	9	40	
LDW22-SS811 22L0136-07	12/06/22 12:05	12/06/22 16:40	12/08/22 14:38	2	365	12/17/22 16:21	9	40	
LDW22-SS786 22L0136-08	12/06/22 12:26	12/06/22 16:40	12/08/22 14:38	2	365	12/17/22 16:42	9	40	
LDW22-SS766 22L0136-09RE1	12/06/22 13:16	12/06/22 16:40	12/22/22 16:19	16	365	12/27/22 07:01	5	40	
LDW22-SS771 22L0136-10	12/06/22 13:35	12/06/22 16:40	12/08/22 14:38	2	365	12/17/22 17:25	9	40	
LDW22-SS771-FD 22L0136-11RE1	12/06/22 13:35	12/06/22 16:40	12/22/22 16:19	16	365	12/27/22 08:05	5	40	
LDW22-SS772 22L0136-12	12/06/22 13:57	12/06/22 16:40	12/08/22 14:38	2	365	12/17/22 18:07	9	40	
Matrix Spike BKL0190-MS1	12/06/22 10:10	12/06/22 16:40	12/08/22 14:38	2	365	12/17/22 12:07	9	40	
Matrix Spike Dup BKL0190-MSD1	12/06/22 10:10	12/06/22 16:40	12/08/22 14:38	2	365	12/17/22 12:28	9	40	
Matrix Spike BKL0548-MS1	12/06/22 13:16	12/06/22 16:40	12/22/22 16:19	16	365	12/27/22 07:22	5	40	
Matrix Spike Dup BKL0548-MSD1	12/06/22 13:16	12/06/22 16:40	12/22/22 16:19	16	365	12/27/22 07:43	5	40	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Instrument: ECD7

Analyte	MDL	RL	Units
Aroclor 1016	1.6	4.0	ug/kg
Aroclor 1016 [2C]	1.6	4.0	ug/kg
Aroclor 1221	1.6	4.0	ug/kg
Aroclor 1221 [2C]	1.6	4.0	ug/kg
Aroclor 1232	1.6	4.0	ug/kg
Aroclor 1232 [2C]	1.6	4.0	ug/kg
Aroclor 1242	1.6	4.0	ug/kg
Aroclor 1242 [2C]	1.6	4.0	ug/kg
Aroclor 1248	1.6	4.0	ug/kg
Aroclor 1248 [2C]	1.6	4.0	ug/kg
Aroclor 1254	1.6	4.0	ug/kg
Aroclor 1254 [2C]	1.6	4.0	ug/kg
Aroclor 1260	0.6	4.0	ug/kg
Aroclor 1260 [2C]	0.6	4.0	ug/kg

125 Market Street
New Haven, CT 06513
USA

AccuStandard® Inc.

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: S-279N
Description: Tetrachloro-m-xylene
Lot: 0052481B-1
Solvent: N/A
Hazards: *Refer to SDS for complete safety information*

Signal Word: Warning

Date Certified: Jul 28, 2005
Expiration: Jul 28, 2015
Sample Size: 100 mg
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

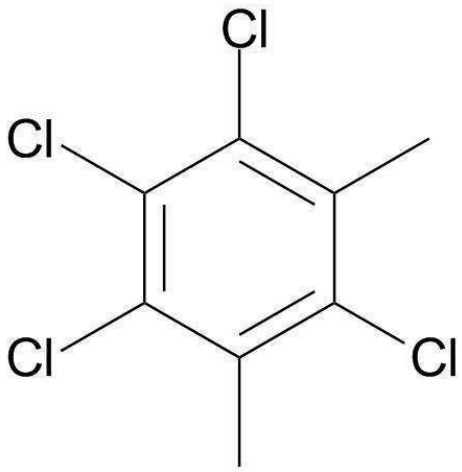
ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/FID)	Prepared Concentration	Certified Analyte Concentration[1]
Tetrachloro-meta-xylene	877-09-8	96.0	N/A	N/A

Identification:

Molecular formula: C8H6Cl4
Molecular weight: 243.94



C000147
tetrachlormetaxylene
Expires 1/15/2020
Prepared By Joshua Rains 1/15/2014

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[1] The Uncertainty calculated for this product is ±2.4%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Metrological traceability is established through in-house validated methods.

Purity, if stated, is equal to 100% minus found impurity components. Impurity components have not been identified.

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 5/18

AccuStandard
125 Market Street
New Haven, CT 06513
(203) 786-5290

CERTIFICATE OF PRODUCT DATA

PRODUCT: C-209N
DESCRIPTION: 2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl
LOT #: 990521LB-AC
SOLVENT: N/A

EXPIRATION: Jul 28, 2015

This product is guaranteed accurate to ±0.5% of the Certified Analyte concentration through the Expiration Date on the Label.

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[1]	Certified Analyte Concentration[2]
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	2051-24-3	100	N/A	N/A

C000148
decachlorbiphenyl
Expires 1/15/2020
Prepared By Joshua Rains 1/15/2014

* I1768A

Certified by: R. Cooper

1. All weights are traceable through National Institute of Standards & Technology, Test No. 822/264480
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty calculated for this product is ±4% which is the Combined Uncertainty uc(y). It represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The Expanded Uncertainty is U which is Uc(y) *K where K is the coverage factor at the 95% confidence level (K=2).
3. A product with a suffix (-1A, -2B, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

Please note: AccuStandard follows the U.S. conventions in reporting numerical values, on both certificates and labels.

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

This product was manufactured in accordance to quality system requirements of ISO 9001:2000 and ISO 17025

* Recertified 2 4-6-09 JS

Analytical Standard Record

Standard ID: C000148 **Printed: 4/23/2015 11:54:44AM**

Description:	decachlorbiphenyl	Expires:	15-Jan-2020
Standard Type:	Other	Prepared:	15-Jan-2014
Solvent:	na/a	Prepared By:	Joshua Rains
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	27-Feb-2015 13:03 by JGR
Vendor:	Accustandard	Lot #:	990521lb-ac
Vendor Catalog #:			

Comments

see i1768a
SOM calibrations added 06/12/14 sdrd

Analyte	CAS Number	Concentration	Units
Decachlorobiphenyl [2C]	2051-24-3	1000000	ug/mL
Decachlorobiphenyl	2051-24-3	1000000	ug/mL
DCB 1660 [2C]	2051-24-3	1000000	ug/mL
DCB 1660	2051-24-3	1000000	ug/mL
DCB [2C]	2051-24-3	1000000	ug/mL
DCB (A) [2C]	2051-24-3	1000000	ug/mL
DCB (A)	2051-24-3	1000000	ug/mL
DCB	2051-24-3	1000000	ug/mL

Reviewed By Date

Certificate of Analysis

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101468
Description: Aroclor 1221
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL14017
Certification Date: August 20, 2019
Expiration Date: August 31, 2027

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1221	11104-28-2	1000	± 0.553%

I 10155

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64691018_us

Certificate of Analysis

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101469
Description: Aroclor 1232
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL14914
Certification Date: January 31, 2020
Expiration Date: January 31, 2028

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1232	11141-16-5	1000	± 0.738%

I 010156

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Reference Material Producer
Certicate No. 2427.02

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Chemical Testing Laboratory
Certicate No. 2427.03

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101470
Description: Aroclor 1242
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL14018
Certification Date: August 20, 2019
Expiration Date: August 31, 2027

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1242	53469-21-9	1000	± 0.553%

I 010157

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101471
Description: Aroclor 1248
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL15384
Certification Date: June 19, 2020
Expiration Date: June 30, 2028

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1248	12672-29-6	1000	± 0.520%

I 010158

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2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.: AL0-101472
Description: Aroclor 1254
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL13055
Certification Date: November 29, 2018
Expiration Date: November 30, 2026

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1254	11097-69-1	1000	± 0.247%

I 010159

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO Guide 34[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.

4. Instruction: Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at www.phenomenex.com/mysupport.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

   $$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.

12. Period of Validity: The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.
[3] ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.:	AL0-101474	**Lot Number:**	CL11330
Description:	Aroclor 1262	**Certification Date:**	May 15, 2015
Storage:	4 °C	**Expiration Date:**	April 30, 2023
Provided As:	1 mL in 2 mL Ampoule in Isooctane	**Revision Date:**	April 2, 2018

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1262	37324-23-5	1000	± 0.516%

I 10160

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO Guide 34[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.

4. Instruction: Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at www.phenomenex.com/mysupport.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

   $$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.

12. Period of Validity: The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.
[3] ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.:	AL0-101475	**Lot Number:**	CL11331
Description:	Aroclor 1268	**Certification Date:**	May 15, 2015
Storage:	4 °C	**Expiration Date:**	April 30, 2023
Provided As:	1 mL in 2 mL Ampoule in Isooctane	**Revision Date:**	April 2, 2018

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1268	11100-14-4	1000	± 0.516%

I 012161

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Reference Material Producer
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Manufactured by Phenova, Inc.
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2. Quality Standards: Phenova is accredited by A2LA to ISO Guide 34[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.

4. Instruction: Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at www.phenomenex.com/mysupport.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.

12. Period of Validity: The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.
[3] ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

ACCREDITED
Reference Material Producer
Certificate No. 2427.02

phenova® Certified Reference Materials

Manufactured by Phenova, Inc.
Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certificate No. 2427.03

IL111110613_us

Certificate of Analysis

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6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101462
Description: Aroclor 1260
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Hexane

Lot Number: CL16516
Certification Date: March 4, 2021
Expiration Date: February 28, 2029

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1260	11096-82-5	1000	± 0.553%

J006465

Certificate of Analysis

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101467
Description: Aroclor 1016
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL16555
Certification Date: June 22, 2021
Expiration Date: February 28, 2029

Andrea Gill, Certified Reference Materials Manager

J012591
AROCLOR 1016
Expires 2/28/2029
Prepared By Joshua Rains 11/26/2021

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1016	12674-11-2	1000	± 0.310%

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Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Certificate of Analysis

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Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101462
Description: Aroclor 1260
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Hexane

Lot Number: CL16516
Certification Date: March 4, 2021
Expiration Date: February 28, 2029

J012592
AROCLOR 1260
Expires 2/28/2029
Prepared By Joshua Rains 11/26/2021

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1260	11096-82-5	1000	± 0.553%

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64691018_us

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Certificate of Analysis

Agilent

Aroclor 1016 Solution

Product Number: PP-282 **Page:** 1 of 1

Lot Number: CR-0761 **Lot Issue Date:** 28-Feb-2017 **Expiration Date:** 31-Mar-2025

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1016	012674-11-2	NT01016	100.2 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1254 JR
Reed
02/05/22

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

John Russo
President

Monica Bourgeois
Director of QA/RA

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 9001
Registered
TUV USA, Inc.

Agilent

Certificate of Analysis

Product Name: Aroclor 1260 Standard

Product Number: PP-362-1 **Lot Issue Date:** 20-Jan-2021

Lot Number: 0006582048 **Expiration Date:** 28-Feb-2025

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
Aroclor 1260	011096-82-5	NT01023	100.4 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

K 1255

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

MJBourgeois

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

ISO 17034 Cert
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/
CSD-QA-015.1

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ISO 17025 Cert
No. AT-1937

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Agilent

Certificate of Analysis
ISO Guide 34

Aroclor 1242 Solution

Product Number: PP-312 **Page:** 1 of 1

Lot Number: CS-6293 **Lot Issue Date:** 04-Jan-2019 **Expiration Date:** 31-Jan-2023

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1242	053469-21-9	NT01020	100.4 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1256

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

M Bourgeois

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO GUIDE 34 REFERENCE MATERIAL PRODUCER
ISO Guide 34 Cert No.
AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026
registered ISO 9001 Quality Management System

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO17025 Cert No.
AT-1937

ISO 17034

Agilent
Trusted Answers

Reference Material Certificate

Product Name:	Aroclor 1248 Standard	**Lot Number:**	0006626997
Product Number:	PP-342-1	**Lot Issue Date:**	17-Aug-2021
Storage Conditions:	Store at Room Temperature (15° to 30°C).	**Expiration Date:**	30-Sep-2025

	CERTIFIED VALUES				
Component Name	Concentration		Expanded Uncertainty	CAS#	Analyte Lot
Aroclor 1248	100.3	±	0.5 µg/mL	012672-29-6	NT01582

Matrix: isooctane (2,2,4-trimethylpentane)

K1257

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:
The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Certificate of Analysis

Agilent

Aroclor 1254 Solution

Product Number: PP-352 **Page:** 1 of 1

Lot Number: CS-2321 **Lot Issue Date:** 04-May-2018 **Expiration Date:** 31-May-2026

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1254	011097-69-1	RM00922	100.4 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1258

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

John Russo
President

Monica Bourgeois
Director of QA/RA

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 9001
Registered
TUV USA, Inc.

Agilent

Certificate of Analysis

Product Name: Aroclor 1221 Standard

Product Number: PP-292-1 **Lot Issue Date:** 28-Apr-2020

Lot Number: 0006535333 **Expiration Date:** 31-May-2024

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
Aroclor 1221	011104-28-2	RM04278	100.2 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

K1259

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

MBourgeois

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 17025 Cert No. AT-1937

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality

Agilent

Certificate of Analysis
ISO 17034

Aroclor 1262 Standard

Product Number: PP-372-1 **Page:** 1 of 1

Lot Number: 0006499800 **Lot Issue Date:** 04-Nov-2019 **Expiration Date:** 30-Nov-2023

This ISO 17034 Reference Material (RM) was manufactured and verified in accordance with Agilent Technologies ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1262	037324-23-5	RM14263	100.0 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1260

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026 registered ISO 9001 Quality Management System

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert No. AT-1937

Agilent

Certificate of Analysis
ISO 17034

Aroclor 1232 Standard

Product Number: PP-302-1 **Page:** 1 of 1

Lot Number: CF-2197A **Lot Issue Date:** 05-Jul-2016 **Expiration Date:** 31-Aug-2023

This ISO 17034 Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1232	011141-16-5	NT01717	100.4 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1261

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

M Bourgeois

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO GUIDE 34 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026 registered ISO 9001 Quality Management System

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO17025 Cert No. AT-1937

Agilent

Certificate of Analysis

Product Name: Aroclor 1268 Standard

Product Number: PP-382-1 **Lot Issue Date:** 09-Feb-2021

Lot Number: 0006587800 **Expiration Date:** 31-Mar-2029

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
Aroclor 1268	011100-14-4	RM00937	100.0 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

K1262

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026
Page: 1 of 1
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ISO 17025 Cert No. AT-1937

Certificate of Analysis

Phenova Certified Reference Materials are sold by Phenomenex.
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Access your MSDS and digital C of A at **www.phenomenex.com/mysupport. Re-order at www.phenomenex.com/standards**

Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.: AL0-101467
Description: Aroclor 1016
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL12975
Certification Date: November 19, 2018
Expiration Date: October 31, 2026

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1016	12674-11-2	1000	± 0.553%

K5829

ACCREDITED
Reference Material Producer
Certificate No. 2427.02

phenova® Certified Reference Materials

Manufactured by Phenova, Inc.
Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ilac-MRA ACCREDITED
Chemical Testing Laboratory
Certificate No. 2427.03

IL11110613_us

Certificate of Analysis

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO Guide 34[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.

4. Instruction: Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at www.phenomenex.com/mysupport.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

   $$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.

12. Period of Validity: The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.
[3] ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

ACCREDITED
Reference Material Producer
Certificate No. 2427.02

phenova® Certified Reference Materials

Manufactured by Phenova, Inc.
Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ilac-MRA ACCREDITED
Chemical Testing Laboratory
Certificate No. 2427.03

IL111106I3_US

Certificate of Analysis

phenova Certified Reference Materials | A Phenomenex Company

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101462
Description: Aroclor 1260
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Hexane

Lot Number: CL18021
Certification Date: February 14, 2022
Expiration Date: February 28, 2030

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1260	11096-82-5	1000	± 0.553%

K005830

Certificate of Analysis

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Recipient Copy

CHAIN-OF-CUSTODY RECORD

COC No. 15546

Order Number: CB014961

Date Shipped: 11/17/2022

AirBill No(s): 519204142414

From: QATS LABORATORY
2700 CHANDLER AVENUE, BLDG. B
LAS VEGAS, NV 89120
PHONE: 1-702-895-8712

To: Kelly Bottem
Analytical Resources, Inc.
4611 S. 134th Place SUITE 100
Tukwila WA 98168
206-695-6211

Sample ID	Sigma ID	Qty	Description/Remarks	→ Catalogue Number
PSRM0164	SR0431	1	PUGET SOUND SEDIMENT RM	PS-SRM
PSRM0165	SR0431	1	PUGET SOUND SEDIMENT RM	PS-SRM
PSRM0166	SR0431	1	PUGET SOUND SEDIMENT RM	PS-SRM

11/17/2022

PUGET SOUND SRM FOR THE LOCKHEED WEST SEATTLE SF SITE 5-YEAR REVIEW MONITORING.

Please use the enclosed Sample Preparation Instructions. If catalogue number(s) are listed at the top of the Sample Preparation Instructions use the Sample Preparation Instructions with catalogue number(s) matching the catalogue number(s) of each of the samples listed above.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	11/17/2022 (1400)	Phillip	11/18/22 10:22
Custody Seal(s): Present/Absent	Remarks:		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

Report No. 00, 9/11/2014

SMP Version 3.3

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SS823

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-01 C	SDG:	22L0136
Sampled:	12/06/22 09:41	Prepared:	12/08/22 16:27	File ID:	
% Solids:	48.74	Preparation:	No Prep Wet Chem	Analyzed:	12/08/22 16:29
Batch:	BKL0210	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	48.74	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SS822

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-02 C	SDG:	22L0136
Sampled:	12/06/22 10:10	Prepared:	12/08/22 16:27	File ID:	
% Solids:	85.22	Preparation:	No Prep Wet Chem	Analyzed:	12/08/22 16:29
Batch:	BKL0210	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	85.22	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SS821

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-03 C	SDG:	22L0136
Sampled:	12/06/22 10:23	Prepared:	12/08/22 16:27	File ID:	
% Solids:	88.04	Preparation:	No Prep Wet Chem	Analyzed:	12/08/22 16:29
Batch:	BKL0210	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	88.04	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SS820

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-04 C	SDG:	22L0136
Sampled:	12/06/22 10:49	Prepared:	12/08/22 16:27	File ID:	
% Solids:	66.27	Preparation:	No Prep Wet Chem	Analyzed:	12/08/22 16:29
Batch:	BKL0210	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	66.27	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SS819

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-05 C	SDG:	22L0136
Sampled:	12/06/22 11:11	Prepared:	12/08/22 16:27	File ID:	
% Solids:	88.47	Preparation:	No Prep Wet Chem	Analyzed:	12/08/22 16:29
Batch:	BKL0210	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	88.47	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SS818

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-06 C	SDG:	22L0136
Sampled:	12/06/22 11:24	Prepared:	12/08/22 16:27	File ID:	
% Solids:	57.79	Preparation:	No Prep Wet Chem	Analyzed:	12/08/22 16:29
Batch:	BKL0210	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	57.79	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SS811

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-07 C	SDG:	22L0136
Sampled:	12/06/22 12:05	Prepared:	12/08/22 16:27	File ID:	
% Solids:	43.60	Preparation:	No Prep Wet Chem	Analyzed:	12/08/22 16:29
Batch:	BKL0210	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	43.60	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SS786

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-08 C	SDG:	22L0136
Sampled:	12/06/22 12:26	Prepared:	12/08/22 16:27	File ID:	
% Solids:	54.97	Preparation:	No Prep Wet Chem	Analyzed:	12/08/22 16:29
Batch:	BKL0210	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	54.97	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SS766

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-09 C	SDG:	22L0136
Sampled:	12/06/22 13:16	Prepared:	12/08/22 16:27	File ID:	
% Solids:	70.49	Preparation:	No Prep Wet Chem	Analyzed:	12/08/22 16:29
Batch:	BKL0210	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	70.49	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SS771

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-10 C	SDG:	22L0136
Sampled:	12/06/22 13:35	Prepared:	12/08/22 16:27	File ID:	
% Solids:	40.02	Preparation:	No Prep Wet Chem	Analyzed:	12/08/22 16:29
Batch:	BKL0210	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	40.02	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SS771-FD

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-11 C	SDG:	22L0136
Sampled:	12/06/22 13:35	Prepared:	12/08/22 16:27	File ID:	
% Solids:	41.21	Preparation:	No Prep Wet Chem	Analyzed:	12/08/22 16:29
Batch:	BKL0210	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	41.21	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SS772

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-12 C	SDG:	22L0136
Sampled:	12/06/22 13:57	Prepared:	12/08/22 16:27	File ID:	
% Solids:	37.28	Preparation:	No Prep Wet Chem	Analyzed:	12/08/22 16:29
Batch:	BKL0210	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	37.28	1	0.04	0.04	

PREPARATION BATCH SUMMARY

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Batch: BKL0210 Batch Matrix: Solid
Preparation: No Prep Wet Chem

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SS823	22L0136-01		12/08/22 16:27	
LDW22-SS822	22L0136-02		12/08/22 16:27	
LDW22-SS821	22L0136-03		12/08/22 16:27	
LDW22-SS820	22L0136-04		12/08/22 16:27	
LDW22-SS819	22L0136-05		12/08/22 16:27	
LDW22-SS818	22L0136-06		12/08/22 16:27	
LDW22-SS811	22L0136-07		12/08/22 16:27	
LDW22-SS786	22L0136-08		12/08/22 16:27	
LDW22-SS766	22L0136-09		12/08/22 16:27	
LDW22-SS771	22L0136-10		12/08/22 16:27	
LDW22-SS771-FD	22L0136-11		12/08/22 16:27	
LDW22-SS772	22L0136-12		12/08/22 16:27	
Blank	BKL0210-BLK1		12/08/22 16:27	
LDW22-SS823	BKL0210-DUP1		12/08/22 16:27	
LDW22-SS823	BKL0210-DUP2		12/08/22 16:27	

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET for Solid samples

Method: PSEP 1986, SM2540, EPA 160.1

(dry at 104 (12-24 hr) then combust at 550 (30 min))

Batch:	BKL0210
Date:	12/8/2022 16:29
Analyst:	UW

Instrumentation

Drying Ovens:	1	**Analytical Balance:**	BAL2
Muffle Furnace:	2		

Batch drying time

record times as mm/dd/yy hh:mm

date/time in oven:	12/8/2022 17:00	
date/time out:	12/9/2022 11:44	
elapsed hrs =	18.7	OK

TS (%) calculated as:
Final dry wt (g) = (Dry Wt - Tare Wt)
TS = (Final Dry Wt)/ (grams Sample-Tare)

Oven Temps, °C	
Start Temp	75
Dry Cycle 1	99
Dry Cycle 2	
Dry Cycle 3	

TVS (mg/kg dry wt) calculated as:
Final ash wt (g) = (min ash wt - tare wt)
TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000
if ash wt > dry wt, "Chk for Err"
if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000

Balance Calibration Check

Record weights to 4 places

Cal Weight ID:		CV-02	CV-02	CV-02	CV-02	CV-02		CV-02	CV-02	CV-02	
Date & Time:		12/7/22 15:00	12/8/22 16:35	12/9/22 12:12							
Cal Wt (g):	10.0000	10.0000	10.0000	10.0000							
		Cal OK!	Cal OK!	Cal OK!							

Sample ID	Dish #	Tare Wt. (g)	Dish & Sample (g)	Dry Wt 104C (grams) 1	2	3	dry Wt (g)	TS (%)	Notes	ASH WT 550C (grams) 1	2	3	Ash Wt (g)	TVS (mg/kg)	(%)	Notes
BKL0210-BLK1	82	0.8232	0.0000	0.8231			-0.0001	0.01%								
22L0112-01	83	0.8204	6.6834	2.2244			1.4040	23.95%								
22L0118-01	84	0.8425	11.3048	1.3861			0.5436	5.20%								
22L0124-02	85	0.8220	5.3996	1.7281			0.9061	19.79%								
22L0136-01	86	0.8225	7.0111	3.8388			3.0163	48.74%								
BKL0210-DUP1	87	0.8309	7.2220	3.9756			3.1447	49.20%	RPD=0.9							
BKL0210-DUP2	88	0.7949	6.6500	3.6979			2.9030	49.58%	RSD=0.9							
22L0136-02	89	0.8046	7.8167	6.7804			5.9758	85.22%								
22L0136-03	90	0.8286	7.0780	6.3307			5.5021	88.04%								
22L0136-04	91	0.8024	7.9300	5.5259			4.7235	66.27%								
22L0136-05	92	0.8331	7.1886	6.4555			5.6224	88.47%								
22L0136-06	93	0.7840	7.9366	4.9177			4.1337	57.79%								
22L0136-07	94	0.8017	8.4795	4.1489			3.3472	43.60%								
22L0136-08	95	0.8053	9.0119	5.3164			4.5111	54.97%								
22L0136-09	96	0.7818	9.2987	6.7857			6.0039	70.49%								
22L0136-10	97	0.8195	6.2145	2.9784			2.1589	40.02%								
22L0136-11	98	0.8094	7.2878	3.4789			2.6695	41.21%								
22L0136-12	99	0.8180	7.7832	3.4149			2.5969	37.28%								
22L0136-13	100	0.8233	7.3451	3.3863			2.5630	39.30%								
22L0136-14	101	0.7919	8.7892	2.2904			1.4985	18.74%								

Form I

METHOD BLANK DATA SHEET

SM 2540 G-97

TotalAnalytes

Blank

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Batch: BKL0210
Laboratory ID: BKL0210-BLK1
Prepared: 12/08/22 16:27
Matrix: Solid
Preparation: No Prep Wet Chem
Analyzed: 12/08/22 16:29
Sequence:
Calibration:
Instrument: BAL2

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	ND	1	0.04	0.04	U

DUPLICATES

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0210-DUP1
Batch: BKL0210
Lab Source ID: 22L0136-01
Preparation: No Prep Wet Chem
Initial/Final: 5 g / 5 g
Source Sample Name: LDW22-SS823
% Solids: 48.74

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Solids	20	48.74	49.20	0.949	

*: Values outside of QC limits
L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD

DUPLICATES

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0210-DUP2
Batch: BKL0210
Lab Source ID: 22L0136-01
Preparation: No Prep Wet Chem
Initial/Final: 5 g / 5 g
Source Sample Name: LDW22-SS823
% Solids: 48.74

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Solids	20	48.74	49.58	1.71	

*: Values outside of QC limits
L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD

HOLDING TIME SUMMARY

Analysis: SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-SS823 22L0136-01	12/06/22 09:41	12/06/22 16:40	12/08/22 16:27	2	28	12/08/22 16:29	2	28	
LDW22-SS822 22L0136-02	12/06/22 10:10	12/06/22 16:40	12/08/22 16:27	2	28	12/08/22 16:29	2	28	
LDW22-SS821 22L0136-03	12/06/22 10:23	12/06/22 16:40	12/08/22 16:27	2	28	12/08/22 16:29	2	28	
LDW22-SS820 22L0136-04	12/06/22 10:49	12/06/22 16:40	12/08/22 16:27	2	28	12/08/22 16:29	2	28	
LDW22-SS819 22L0136-05	12/06/22 11:11	12/06/22 16:40	12/08/22 16:27	2	28	12/08/22 16:29	2	28	
LDW22-SS818 22L0136-06	12/06/22 11:24	12/06/22 16:40	12/08/22 16:27	2	28	12/08/22 16:29	2	28	
LDW22-SS811 22L0136-07	12/06/22 12:05	12/06/22 16:40	12/08/22 16:27	2	28	12/08/22 16:29	2	28	
LDW22-SS786 22L0136-08	12/06/22 12:26	12/06/22 16:40	12/08/22 16:27	2	28	12/08/22 16:29	2	28	
LDW22-SS766 22L0136-09	12/06/22 13:16	12/06/22 16:40	12/08/22 16:27	2	28	12/08/22 16:29	2	28	
LDW22-SS771 22L0136-10	12/06/22 13:35	12/06/22 16:40	12/08/22 16:27	2	28	12/08/22 16:29	2	28	
LDW22-SS771-FD 22L0136-11	12/06/22 13:35	12/06/22 16:40	12/08/22 16:27	2	28	12/08/22 16:29	2	28	
LDW22-SS772 22L0136-12	12/06/22 13:57	12/06/22 16:40	12/08/22 16:27	2	28	12/08/22 16:29	2	28	
Duplicate BKL0210-DUP1	12/06/22 09:41	12/06/22 16:40	12/08/22 16:27	2	28	12/08/22 16:29	2	28	
Duplicate BKL0210-DUP2	12/06/22 09:41	12/06/22 16:40	12/08/22 16:27	2	28	12/08/22 16:29	2	28	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Instrument:

Analyte	MDL	RL	Units
Total Solids	0.04	0.04	%

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B

Total Metals

LDW22-SS819

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-05 C	SDG:	22L0136
Sampled:	12/06/22 11:11	Prepared:	12/19/22 15:50	File ID:	XDT_m1221227-098
% Solids:	88.47	Preparation:	SWN EPA 3050B	Analyzed:	12/27/22 23:56
Batch:	BKL0495	Sequence:	SKL0348	Initial/Final:	1.066 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	FL00059

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7439-92-1	Lead	4.33	20	0.06	0.11	

PREPARATION BATCH SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Batch: BKL0495 Batch Matrix: Solid
Preparation: SWN EPA 3050B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SS819	22L0136-05	XDT_m1221227-098	12/19/22 15:50	
Blank	BKL0495-BLK1	XDT_m1221227-071	12/19/22 15:50	
LCS	BKL0495-BS1	XDT_m1221227-072	12/19/22 15:50	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

12/20/22

Digestion Log

Analyst: AR Date: 12/20/22 - 12/21/22 Time: 1140 1036 12/21/22 Balance ID: BALIO

Matrix: SOIL Block ID: 8 Block Temp: 94°C Thermometer: 203

ARI Sample ID	Btl #	pH<2	Prep Code: SUN Initial Wt (g) Vol (mL)	Prep Code: SUN Final Vol (mL)	Prep Code: Initial Wt (g) Vol (mL)	Prep Code: Final Vol (mL)	Comments
22L136-05	C		1.0066	50			
22L383-01	A		1.0446				
-02			1.075				
-03			1.054				
-04			1.036				
-05			1.047				
-06			1.041				
-07			1.013				
-08			1.023				
22L417-01	B		1.015				
-02			1.016				
-03			1.036				
-04			1.037				
-05			1.016				
-06			1.065				
-07			1.065				
-08			1.053				
-09			1.057				
BKL495-blk	—		—				22L383-01
-bs	—		—				
-dup	—		1.044				
-MS	—		1.043				
-MSD	—		1.045				
-SRM	—		1.001				

Chemical/Reagent ID:

HNO_3: KH506 1:1 HNO_3: KH786 HCl: — H_2O_2: K100516

Tube Lot#: 220805 Boiling Chip Lot#: — (DoD Only)

Form I

METHOD BLANK DATA SHEET

EPA 6020B

Total Metals

Blank

Laboratory: Analytical Resources, LLC | SDG: 22L0136

Client: Anchor QEA, LLC | Project: AOC4 UR Phase 3

Batch: BKL0495 | Laboratory ID: BKL0495-BLK1 | Prepared: 12/19/22 15:50

Matrix: Solid | Preparation: SWN EPA 3050B | Analyzed: 12/27/22 21:37

Sequence: SKL0348 | Calibration: FL00059 | Instrument: ICPMS1

CAS NO.	Analyte	Concentration (mg/kg wet)	Dilution Factor	MDL	MRL	Q
7439-92-1	Lead-208	ND	20	0.05	0.10	U

LCS / LCS DUPLICATE RECOVERY

EPA 6020B

Total Metals

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/27/22 21:42
Batch:	BKL0495	Laboratory ID:	BKL0495-BS1
Preparation:	SWN EPA 3050B	Sequence Name:	LCS
Initial/Final:	1 g / 50 mL		

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Lead-208	25.0	26.8		107	80 - 120

* Indicates values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00059	Instrument:	ICPMS1
Calibration Date:	12/27/2022 15:29		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Lead-208	0	0	0.1	78840	10	73103.9	20	73761.75	50	74578.56	100	69234.67

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory: Analytical Resources, LLC | Instrument: ICPMS1

Calibration: FL00059 | Calibration Date: 12/27/202

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Lead-208	61586.48	49.2	0.9986		0.998	

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 12/27/22 **Analyst:** MB **Sequence:** SKLØ348 **Cal:** FLØØØS9

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CAL1	K11736		
		-CAL2	K11737		
		-CAL3	K11738		
		-CAL4	K11739		
		-CAL5	K11644		
		-CAL6	K11740		
		-IBL1	—		
		-ICV1	K74Ø3		
		-ICB1	K11736		
		-CCV1	K11644		
		-CCB1	K11736		
		-CRL1	K11737		
	✓	-IFA1	—		$Cr\uparrow$
		-IFB1	K11683		$Cr^{53}\uparrow$
		-HCV1	K11379		
		-HCV2	K11540		$Cu^{63}+Zn^{66}\downarrow$ - Cu, Zn < 200
		-IBL2	—		
		-IFA1	K11871		$Cr^{53}\uparrow$ (New Soln)
		-IBL3+4	—		
	✓	-CCV2	—		In^{1} noisy/Cd↑
		-CCV2			
		-CCB2			
	✓	-CAL1			
		-CCV3			

Analytical Resources, Incorporated
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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 12/27/22 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCB3			
		BKLΦ323-BLK3	REN		Tl only
		↓ -BS3	↓		↓
		BKLΦ368-BLK2			Accidentally Diluted
	✓	-BS2			↓
		22LΦ1Φ8-Φ1		20	Cd only
		22LΦ341-Φ1	↓	↓	Cu, Zn only
		SEQ-IBL5			
		22LΦ391-Φ1	REN	2	Cd, Cr only
		22LΦ148-Φ1	↓		Cr only
		SEQ-IBL6			
		-CCV4			
		↓ -CCB4			
		BKLΦ616-BLK1	REN		Mn > ½RL - Re-run to confirm No Mn
		↓ -BS1			↓
		BKLΦ619-BLK1			
		↓ -BS1			
		22LΦ439-Φ1		2	Cd only
		-Φ5			
		-Φ6			
		↓ -Φ7	↓	↓	↓
		SEQ-IBL7+8			
		-CCV5			
	✓	↓ -CCB5			Cd noisy / Cal

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 12/27/22 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCB5			
		BKLΦ368-BLK2	REN		Tl only
		↓ -BS2	↓		↓
		22LΦΦΦ4-Φ3		5	
		-Φ5		↓	
		↓ -Φ7			
		22LΦΦΦ5-Φ1			
		-Φ3			
		-Φ5			
		↓ -Φ7	↓	↓	
		SEQ-IBL9			
		↓ -CCV6			Mn↑ - Not Needed
		↓ -CCB6			
		BKLΦ495-BLK1	SWN	20	
		↓ -BS1	↓	↓	
		22LΦΦ83-Φ2	REN	5	
		-Φ3			
		-Φ4			
		↓ -Φ1			
		BKLΦ368-OLP1			
		-MS1			
		↓ -MSD1	↓	↓	
		SEQ-IBLA			
		↓ -CCV7			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 12/27/22 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted. MB 12/27/22

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCB7			
	✓	-CAL1			
		-CCV8			Cr^{52}, Mn↑
		-CCB8			
	✓	BKLΦ481-BLK1	REN		
	✓	-BS1			
		22LΦ150-Φ1		2	
		-Φ2			Cd, Cr, Cu, Ni, Zn only
		22LΦ151-Φ1			
	✓	22LΦ152-Φ2		20	Mn only
		BKLΦ431-DUP3			
		-MS3			
		-MSD3			
		SEQ-IBL8			
		-CCV9			
		-CCB9			
		22LΦ136-Φ5	SLW	20	Sc↑ - Not Needed
		22LΦ383-Φ1			No Cr
		BKLΦ495-DUP1			In↑ noisy - %R & Analytes OK
		-MS1			
		-MSD1			
		22LΦ416-Φ61		100	
		BKLΦ433-DUP1			
		-MS1			Pb STL

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 12/27/22 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted. MB 12/27/22

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BKLΦ433-MS01	SWN	×100	Pb STL
		SEQ-IBLC			
		↓ -CCVA			Ni↓ - Not Needed
		↓ -CCBA			
		22LΦ167-Φ3	SWN	20	Sc↑ - Not Needed
		-Φ4	↓	↓	↓ ↓
		-Φ5			
		-Φ6			
		-Φ7			
		-Φ8			
		-Φ9			
		-1Φ			
		-11			
		SEQ-IBLD			
		-CCVB			Mn↑/Ni^{60}, Co^{63}↓ - Not Needed
		↓ -CCBB			
		22LΦ167-12	SWN	20	
		-13	↓	↓	
		-14			
		-15			
		-16			
		-17			
		-18			
		-19			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 12/27/22 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22LΦ167-2Φ	SWN	20	
		SEQ-IBLE			
		-CCVC			Cr, Mn↑/Ni:60↓-Not Needed
		-CCBC			
		22LΦ126-Φ2	SWN	20	Sc↑-Not Needed
		-Φ3			
		-Φ4			
		-Φ5			
		-Φ6			
		-Φ7			
		-Φ1			
		BKLΦ236-DUP1			
		-MS1			
		SEQ-IBLF			
		-CCVD			Cr:53, Mn↑/Ni:62↓-Not Needed
		-CCBD			
		22LΦ126-Φ8	SWN	20	Sc↑-Not Needed
		-Φ9			
		-1Φ			Sc↑-Not Needed
		-11			
		-12			
		-13			
		-14			
		-15			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 12/27/22 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22LΦ126-16	SWN	20	Sc↑ - Not Needed
		SEQ-IBLG			(Sc, In, Tb noisy / Si noisy)
		-CCVE			Cr, Mn↑/Ni↓ - Not Needed
		-CCBE			
	✓	-CAL1			
		-CCVF			Cr^{53}, Mn↑/Ni↓
		-CCBF			
		22LΦ490-Φ1	REN		No Cu
		22LΦ482-Φ1			
	✓	22LΦ483-Φ1			
		22LΦ484-Φ1			No Cu
		-Φ3			
		-Φ4			
		-Φ2			
		BKLΦ619-DUP1			
		-MS1			
		SEQ-IBLH			
		-CCVG			Cr, Mn↑/Ni, Cu^{63}↓
		-CCBG			
	✓	22LΦ227-Φ1	SWN	20	Sc↑ - Not Needed/Pb↑
	✓	-Φ2			
	✓	-Φ3			
		-Φ4			
		-Φ5			Sc↑ - Not Needed

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 12/27/22 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22LΦ227-Φ6	SWN	20	Sc↑ - Not Needed
		22LΦ234-Φ1	REN	↓	No Cr, Cu, Ni
		↓ -Φ2	↓		↓
		22LΦ205-Φ1	↓		Sc↑
		SEQ-IBLI			
		↓ -CCVH			Cr^{53}, Mn↑ / Ni^{60}, Co^{63}↓
		↓ -CCBH			
		22LΦ219-Φ1	REN	100	No Cu, Ni
	✓	22LΦ181-Φ2	↓		Mn only
↓	↓	↓ -Φ6	↓	↓	↓
		-Φ8			
		-1Φ			
		↓ -Φ4			
		BKLΦ481-DUP1			
		↓ -MS1			
	↓	↓ -MSD1	↓		↓
		SEQ-IBLJ			
		↓ -CCVI			
		↓ -CCBI			
		22LΦ324-Φ2	REN		Pb only
		↓ -Φ3	↓		↓
		-Φ4			
	✓	↓ -Φ5		2	
		↓ -Φ6	↓		Pb only

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 12/27/22 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22LΦ208-Φ1	REN		Sc↑ As, Cd, Pb, Sb, Se only
		BKLΦ517-DUP1	↓		↓ ↓
		↓ -MS1	↓		↓ ↓
		↓ -MSD1	↓		↓ ↓
		SEQ-IBLK			(Cr^{53}↑)
		↓ -CCVJ			Cr, Mn↑/Ni, Cu, Zn^{66}, Tl↓
		↓ -CCBJ			Cr^{53}↑
	✓	BKLΦ575-BLK1	REN		
	↓	↓ -BS1	↓		
		22LΦ187-Φ4			
		↓ -Φ2			
		BKLΦ575-DUP1			
		↓ -MS1			
		22LΦ495-Φ2			Cd, Pb only
		22LΦ149-Φ1			Zn↑ ↓
		22LΦ213-Φ1	↓		
		SEQ-IBLL			(Cr^{53}↑)
		↓ -CCVK			Cr, Mn↑/Ni, Cu, Zn, Tl↓
		↓ -CCBK			Cr^{53}↑
		Rinse/DI			
			MB 12/27/22		

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Tuesday, December 27, 2022 14:11:33
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.14396
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	4017.0	4017.031	39.105	1.0	Standard
	In	114.9	42659.3	42659.278	665.882	1.6	Standard
	U	238.1	44946.5	44946.505	1237.975	2.8	Standard
⌈	CeO	155.9	1034.3	0.017	0.001	3.5	Standard
| >	Ce	139.9	59483.6	59483.626	1237.974	2.1	Standard
⌊	Ce++	70.0	318.3	0.005	0.000	5.1	Standard
	Bkgd	220.0	150.3	150.301	64.242	42.7	Standard

Current Conditions File Data

Current Value	Description
0.88	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1562.00	Analog Stage Voltage
1650.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.88	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Tuesday, December 27, 2022 14:20:41
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.14403
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	7103.8	7103.833	71.466	1.0	Standard
	In	114.9	77990.0	77990.025	1366.759	1.8	Standard
	U	238.1	78021.7	78021.705	1830.176	2.3	Standard
⌈	CeO	155.9	1851.5	0.019	0.000	1.1	Standard
| >	Ce	139.9	95807.8	95807.793	1518.885	1.6	Standard
⌊	Ce++	70.0	714.8	0.007	0.000	4.1	Standard
	Bkgd	220.0	13.8	13.833	7.312	52.9	Standard

Current Conditions File Data

Current Value	Description
0.90	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1562.00	Analog Stage Voltage
1650.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.90	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Start Time: 12/27/2022 2:11:25 PM
End Time: 12/27/2022 2:22:46 PM

STD Performance Check - [Failed]
Obtained Intensity (Be 9): 4017.03
Obtained Intensity (In 115): 42659.28
Obtained Intensity (U 238): 44946.50
Obtained Intensity (Bkgd 220): 150.30 - <Target not achieved>
Obtained Formula (Ce++ 70 / Ce 140): 0.005 (=318.27 / 59483.63)
Obtained Formula (CeO 156 / Ce 140): 0.017 (=1034.30 / 59483.63)
Obtained RSD (Be 9): 0.0097
Obtained RSD (In 115): 0.0156
Obtained RSD (U 238): 0.0275

Torch Alignment - [Passed]

Vertical	Horizontal	Intensity
-0.50 mm	0.85 mm	65890.61

Nebulizer Gas Flow STD/KED [NEB] - [Passed] Optimum value(s): 0.9
Obtained Intensity (In 115): 82482.43
Obtained Formula (CeO 156 / Ce 140): 0.0191 (=1832.12 / 95748.80)

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.696)
Target/Obtained mass (23.985/24.025), Target/Obtained resolution (0.7/0.697)
Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.698)
Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.691)

QID STD/DRC - Optimum value(s): Correlation Coefficient = 1.000; Intercept = -16.70

KED Mode QID - Optimum value(s): Correlation Coefficient = 0.998; Intercept = -15.27

STD Performance Check - [Failed]
Obtained Intensity (Be 9): 7103.83
Obtained Intensity (In 115): 77990.02
Obtained Intensity (U 238): 78021.70
Obtained Intensity (Bkgd 220): 13.83 - <Target not achieved>
Obtained Formula (Ce++ 70 / Ce 140): 0.007 (=714.75 / 95807.79)
Obtained Formula (CeO 156 / Ce 140): 0.019 (=1851.52 / 95807.79)
Obtained RSD (Be 9): 0.0101
Obtained RSD (In 115): 0.0175
Obtained RSD (U 238): 0.0235

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Optimization Status

Start Time: 12/27/2022 2:11:25 PM

STD Performance Check
	Optimization Settings:
		Method: STD Performance Check.mth.
		Intensity Criterion: Be 9 > 2000
		Intensity Criterion: In 115 > 40000
		Intensity Criterion: U 238 > 30000
		Intensity Criterion: Bkgd 220 <= 5
		Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
		Formula Criterion: CeO 156 / Ce 140 <= 0.025
		RSD Criterion: Be 9.0122 < 0.05
		RSD Criterion: In 114.904 < 0.05
		RSD Criterion: U 238.05 < 0.05

	Optimization Results:
	Initial Try
		Obtained Intensity (Be 9): 4017.03
		Obtained Intensity (In 115): 42659.28
		Obtained Intensity (U 238): 44946.50
		Obtained Intensity (Bkgd 220): 150.30 - <Target not achieved>
		Obtained Formula (Ce++ 70 / Ce 140): 0.005 (=318.27 / 59483.63)
		Obtained Formula (CeO 156 / Ce 140): 0.017 (=1034.30 / 59483.63)
		Obtained RSD (Be 9): 0.0097
		Obtained RSD (In 115): 0.0156
		Obtained RSD (U 238): 0.0275

		[Failed]
[Failed]

Torch Alignment
	Optimization Settings:
		Method: Torch Alignment.mth.
		Intensity Criterion: In 115 Maximum

	Optimization Results:
		Vertical	Horizontal	Intensity
[Passed]	-0.50 mm	0.85 mm	65890.61

Nebulizer Gas Flow STD/KED [NEB]
	Optimization Settings:
		Method: Optimize.mth.
			Initial Try - Start/End/Step: 0.9/0.96/0.01.
		Intensity Criterion: In 115 Maximum
		Formula Criterion: CeO 156 / Ce 140 <= 0.025

	Optimization Results:
	Initial Try

		Obtained Intensity (In 115): 82482.43
		Obtained Formula (CeO 156 / Ce 140): 0.0191 (=1832.12 / 95748.80)
[Passed] Optimum value(s): 0.9

Mass Calibration and Resolution
	Optimization Settings:
		Method: Tuning.mth.
		MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
		Iterations: 6
		Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution
		Peak height (%) for Res. Opt.: 10

	Optimization Results:
	Initial Try
		Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.665) - <Target not achieved>
		Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.686)
		Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.692)
		Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.693)
		[Failed]
	Retry 1
		Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.696)
		Target/Obtained mass (23.985/24.025), Target/Obtained resolution (0.7/0.697)
		Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.698)
		Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.691)
[Passed] Optimum value(s): N/A

QID STD/DRC
	Optimization Settings:
		Method: QID Calibration.mth.
			Initial Try - Start/End/Step: -20/0/0.5.

	Optimization Results:
	Initial Try

  Optimum value(s): Correlation Coefficient = 1.000; Intercept = -16.70

	Analyte	Mass	Points	DAC	MaxIntensity

		Li	7	41	-16.5	44352.7
		Mg	24	41	-16	30131.7
		In	115	41	-12.5	82561.9
		Ce	140	41	-12	97825.8
		Pb	208	41	-11.5	45351.9
		U	238	41	-12	81640.6

KED Mode QID
	Optimization Settings:
		Method: QID Calibration.mth.
			Initial Try - Start/End/Step: -20/0/0.5.

	Optimization Results:
	Initial Try

  Optimum value(s): Correlation Coefficient = 0.998; Intercept = -15.27

	Analyte	Mass	Points	DAC	MaxIntensity

		Li	7	41	-15.5	28267.9
		Mg	24	41	-15.5	43815.1
		In	115	41	-12.5	102128
		Ce	140	41	-11.5	98804.5
		Pb	208	41	-11	44112

```
            U       238        41     -10.5        96351.8

STD Performance Check
        Optimization Settings:
                Method: STD Performance Check.mth.
                Intensity Criterion: Be 9 > 2000
                Intensity Criterion: In 115 > 40000
                Intensity Criterion: U 238 > 30000
                Intensity Criterion: Bkgd 220 <= 5
                Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
                Formula Criterion: CeO 156 / Ce 140 <= 0.025
                RSD Criterion: Be 9.0122 < 0.05
                RSD Criterion: In 114.904 < 0.05
                RSD Criterion: U 238.05 < 0.05

        Optimization Results:
        Initial Try
                Obtained Intensity (Be 9): 7103.83
                Obtained Intensity (In 115): 77990.02
                Obtained Intensity (U 238): 78021.70
                Obtained Intensity (Bkgd 220): 13.83 - <Target not achieved>
                Obtained Formula (Ce++ 70 / Ce 140): 0.007 (=714.75 / 95807.79)
                Obtained Formula (CeO 156 / Ce 140): 0.019 (=1851.52 / 95807.79)
                Obtained RSD (Be 9): 0.0101
                Obtained RSD (In 115): 0.0175
                Obtained RSD (U 238): 0.0235

                [Failed]
[Failed]

End Time: 12/27/2022 2:22:46 PM
```

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Tuesday, December 27, 2022 14:23:25
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.14404
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	7013.1	7013.121	117.192	1.7	Standard
	In	114.9	76673.6	76673.558	762.586	1.0	Standard
	U	238.1	79179.7	79179.656	1088.416	1.4	Standard
⎡	CeO	155.9	1842.7	0.019	0.000	0.5	Standard
⎢>	Ce	139.9	95565.7	95565.654	432.522	0.5	Standard
⎣	Ce++	70.0	681.1	0.007	0.000	4.0	Standard
	Bkgd	220.0	18.6	18.567	19.740	106.3	Standard

Current Conditions File Data

Current Value	Description
0.90	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1562.00	Analog Stage Voltage
1650.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.90	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Start Time: 12/27/2022 2:23:24 PM
End Time: 12/27/2022 2:25:29 PM

STD Performance Check - [Failed]
Obtained Intensity (Be 9): 7013.12
Obtained Intensity (In 115): 76673.56
Obtained Intensity (U 238): 79179.66
Obtained Intensity (Bkgd 220): 18.57 - <Target not achieved>
Obtained Formula (Ce++ 70 / Ce 140): 0.007 (=681.15 / 95565.65)
Obtained Formula (CeO 156 / Ce 140): 0.019 (=1842.65 / 95565.65)
Obtained RSD (Be 9): 0.0167
Obtained RSD (In 115): 0.0099
Obtained RSD (U 238): 0.0137

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Optimization Status

Start Time: 12/27/2022 2:23:24 PM

STD Performance Check
	Optimization Settings:
		Method: STD Performance Check.mth.
		Intensity Criterion: Be 9 > 2000
		Intensity Criterion: In 115 > 40000
		Intensity Criterion: U 238 > 30000
		Intensity Criterion: Bkgd 220 <= 5
		Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
		Formula Criterion: CeO 156 / Ce 140 <= 0.025
		RSD Criterion: Be 9.0122 < 0.05
		RSD Criterion: In 114.904 < 0.05
		RSD Criterion: U 238.05 < 0.05

	Optimization Results:
	Initial Try
		Obtained Intensity (Be 9): 7013.12
		Obtained Intensity (In 115): 76673.56
		Obtained Intensity (U 238): 79179.66
		Obtained Intensity (Bkgd 220): 18.57 - <Target not achieved>
		Obtained Formula (Ce++ 70 / Ce 140): 0.007 (=681.15 / 95565.65)
		Obtained Formula (CeO 156 / Ce 140): 0.019 (=1842.65 / 95565.65)
		Obtained RSD (Be 9): 0.0167
		Obtained RSD (In 115): 0.0099
		Obtained RSD (U 238): 0.0137

		[Failed]
[Failed]

End Time: 12/27/2022 2:25:29 PM

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Start Time: 12/27/2022 2:34:38 PM
End Time: 12/27/2022 2:36:43 PM

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 7698.54
Obtained Intensity (In 115): 83608.83
Obtained Intensity (U 238): 84439.83
Obtained Intensity (Bkgd 220): 3.40
Obtained Formula (Ce++ 70 / Ce 140): 0.008 (=816.69 / 100701.22)
Obtained Formula (CeO 156 / Ce 140): 0.021 (=2086.42 / 100701.22)
Obtained RSD (Be 9): 0.0156
Obtained RSD (In 115): 0.0078
Obtained RSD (U 238): 0.0064

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Optimization Status

Start Time: 12/27/2022 2:34:38 PM

STD Performance Check

Optimization Settings:

Method: STD Performance Check.mth.
Intensity Criterion: Be 9 > 2000
Intensity Criterion: In 115 > 40000
Intensity Criterion: U 238 > 30000
Intensity Criterion: Bkgd 220 <= 5
Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
Formula Criterion: CeO 156 / Ce 140 <= 0.025
RSD Criterion: Be 9.0122 < 0.05
RSD Criterion: In 114.904 < 0.05
RSD Criterion: U 238.05 < 0.05

Optimization Results:

Initial Try

Obtained Intensity (Be 9): 7698.54
Obtained Intensity (In 115): 83608.83
Obtained Intensity (U 238): 84439.83
Obtained Intensity (Bkgd 220): 3.40
Obtained Formula (Ce++ 70 / Ce 140): 0.008 (=816.69 / 100701.22)
Obtained Formula (CeO 156 / Ce 140): 0.021 (=2086.42 / 100701.22)
Obtained RSD (Be 9): 0.0156
Obtained RSD (In 115): 0.0078
Obtained RSD (U 238): 0.0064

[Passed] Optimum value(s): N/A

End Time: 12/27/2022 2:36:43 PM

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Tuesday, December 27, 2022 14:34:39
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.14406
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	7698.5	7698.541	120.063	1.6	Standard
	In	114.9	83608.8	83608.830	649.593	0.8	Standard
	U	238.1	84439.8	84439.826	543.399	0.6	Standard
⌈	CeO	155.9	2086.4	0.021	0.000	1.2	Standard
| >	Ce	139.9	100701.2	100701.223	606.344	0.6	Standard
⌊	Ce++	70.0	816.7	0.008	0.000	2.3	Standard
	Bkgd	220.0	3.4	3.400	2.535	74.6	Standard

Current Conditions File Data

Current Value	Description
0.90	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1562.00	Analog Stage Voltage
1650.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.90	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 15:29:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				31033	3	Standard
	Cl	**37**		ug/L				7015672	2	Standard
⎡>	**Sc**	**45**		ug/L				377239	3	Standard
⎢	**Cr**	**52**		ug/L				13696	2	Standard
⎢	**Cr**	**53**		ug/L				229	3	Standard
⎣	**Mn**	**55**		ug/L				1000	4	Standard
⎡>	**Ge**	**72**		ug/L				20450	0	KED
⎢	**Ni**	**60**		ug/L				10	43	KED
⎢	**Ni**	**62**		ug/L				0	173	KED
⎢	**Cu**	**63**		ug/L				49	16	KED
⎢	**Cu**	**65**		ug/L				25	22	KED
⎢	**Zn**	**66**		ug/L				41	34	KED
⎢	**Zn**	**67**		ug/L				4	98	KED
⎢	**As**	**75**		ug/L				1	15	KED
⎣	**Se**	**78**		ug/L				7	13	KED
	Y	**89**		ug/L				239906	3	Standard
	Kr	**83**		ug/L				54	17	Standard
⎡>	**In-1**	**115**		ug/L				4706	0	KED
⎢	**Cd**	**111**		ug/L				1	34	KED
⎣	**Cd**	**114**		ug/L				1	184	KED
⎡>	**In**	**115**		ug/L				405191	2	Standard
⎢	**Sb**	**121**		ug/L				30	12	Standard
⎣	**Sb**	**123**		ug/L				29	20	Standard
⎡>	**Tb**	**159**		ug/L				792826	1	Standard
⎢	**Tl**	**205**		ug/L				37	40	Standard
⎣	**Pb**	**208**		ug/L				184	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 15:34:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31033	34070	4	Standard
	Cl	**37**		ug/L			7015672	6899846	2	Standard
⌈>	**Sc**	**45**		ug/L			377239	375229	2	Standard
|	**Cr**	**52**	**0.500**	ug/L	0.023	4	13696	21827	4	Standard
|	**Cr**	**53**	**0.500**	ug/L	0.018	3	229	1139	1	Standard
⌊	**Mn**	**55**	**0.500**	ug/L	0.014	2	1000	12399	1	Standard
⌈>	**Ge**	**72**		ug/L			20450	20481	0	KED
|	**Ni**	**60**	**0.500**	ug/L	0.017	3	10	591	3	KED
|	**Ni**	**62**	**0.500**	ug/L	0.086	17	0	104	17	KED
|	**Cu**	**63**	**0.500**	ug/L	0.025	5	49	1919	4	KED
|	**Cu**	**65**	**0.500**	ug/L	0.019	3	25	967	3	KED
|	**Zn**	**66**	**6.000**	ug/L	0.226	3	41	2674	3	KED
|	**Zn**	**67**	**6.000**	ug/L	0.410	6	4	407	6	KED
|	**As**	**75**	**0.200**	ug/L	0.012	5	1	48	5	KED
⌊	**Se**	**78**	**0.500**	ug/L	0.185	37	7	16	20	KED
	Y	**89**		ug/L			239906	238929	1	Standard
	Kr	**83**		ug/L			54	62	18	Standard
⌈>	**In-1**	**115**		ug/L			4706	4716	1	KED
|	**Cd**	**111**	**0.100**	ug/L	0.007	7	1	24	7	KED
⌊	**Cd**	**114**	**0.100**	ug/L	0.020	19	1	64	19	KED
⌈>	**In**	**115**		ug/L			405191	408713	1	Standard
|	**Sb**	**121**	**0.200**	ug/L	0.003	1	30	3299	1	Standard
⌊	**Sb**	**123**	**0.200**	ug/L	0.002	1	29	2612	1	Standard
⌈>	**Tb**	**159**		ug/L			792826	798831	1	Standard
|	**Tl**	**205**	**0.200**	ug/L	0.005	2	37	11321	1	Standard
⌊	**Pb**	**208**	**0.100**	ug/L	0.002	1	184	7884	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 15:38:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31033	41413	3	Standard
	Cl	**37**		ug/L			7015672	6896316	2	Standard
⌈>	**Sc**	**45**		ug/L			377239	374213	1	Standard
|	**Cr**	**52**	**10.000**	ug/L	0.183	1	13696	174100	3	Standard
|	**Cr**	**53**	**10.001**	ug/L	0.030	0	229	18838	1	Standard
⌊	**Mn**	**55**	**10.001**	ug/L	0.125	1	1000	240113	2	Standard
⌈>	**Ge**	**72**		ug/L			20450	20293	1	KED
|	**Ni**	**60**	**10.001**	ug/L	0.084	0	10	12170	1	KED
|	**Ni**	**62**	**10.000**	ug/L	0.163	1	0	2028	1	KED
|	**Cu**	**63**	**10.000**	ug/L	0.255	2	49	36502	1	KED
|	**Cu**	**65**	**10.000**	ug/L	0.121	1	25	18518	0	KED
|	**Zn**	**66**	**10.012**	ug/L	0.247	2	41	4409	1	KED
|	**Zn**	**67**	**10.063**	ug/L	0.062	0	4	686	1	KED
|	**As**	**75**	**10.000**	ug/L	0.062	0	1	2101	0	KED
⌊	**Se**	**78**	**10.000**	ug/L	0.067	0	7	190	0	KED
	Y	**89**		ug/L			239906	230024	1	Standard
	Kr	**83**		ug/L			54	64	12	Standard
⌈>	**In-1**	**115**		ug/L			4706	4609	0	KED
|	**Cd**	**111**	**10.000**	ug/L	0.152	1	1	2215	1	KED
⌊	**Cd**	**114**	**10.000**	ug/L	0.076	0	1	5577	0	KED
⌈>	**In**	**115**		ug/L			405191	404422	0	Standard
|	**Sb**	**121**	**10.000**	ug/L	0.083	0	30	160925	1	Standard
⌊	**Sb**	**123**	**10.000**	ug/L	0.048	0	29	127991	0	Standard
⌈>	**Tb**	**159**		ug/L			792826	814084	0	Standard
|	**Tl**	**205**	**10.000**	ug/L	0.030	0	37	555003	0	Standard
⌊	**Pb**	**208**	**10.000**	ug/L	0.052	0	184	731039	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 15:43:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31033	40385	2	Standard
	Cl	**37**		ug/L			7015672	6974225	1	Standard
⎡>	**Sc**	**45**		ug/L			377239	385204	0	Standard
⎢	**Cr**	**52**	**19.943**	ug/L	0.227	1	13696	339787	1	Standard
⎢	**Cr**	**53**	**19.910**	ug/L	0.585	2	229	37697	2	Standard
⎣	**Mn**	**55**	**19.826**	ug/L	0.245	1	1000	472575	1	Standard
⎡>	**Ge**	**72**		ug/L			20450	20515	1	KED
⎢	**Ni**	**60**	**19.938**	ug/L	0.260	1	10	24213	0	KED
⎢	**Ni**	**62**	**19.899**	ug/L	0.351	1	0	3998	0	KED
⎢	**Cu**	**63**	**19.943**	ug/L	0.171	0	49	72721	0	KED
⎢	**Cu**	**65**	**19.921**	ug/L	0.066	0	25	36696	1	KED
⎢	**Zn**	**66**	**19.802**	ug/L	0.760	3	41	8526	2	KED
⎢	**Zn**	**67**	**20.142**	ug/L	0.611	3	4	1414	4	KED
⎢	**As**	**75**	**20.011**	ug/L	0.419	2	1	4257	1	KED
⎣	**Se**	**78**	**20.028**	ug/L	0.719	3	7	381	3	KED
	Y	**89**		ug/L			239906	238634	1	Standard
	Kr	**83**		ug/L			54	49	16	Standard
⎡>	**In-1**	**115**		ug/L			4706	4809	2	KED
⎢	**Cd**	**111**	**19.842**	ug/L	0.676	3	1	4441	0	KED
⎣	**Cd**	**114**	**19.944**	ug/L	0.544	2	1	11473	0	KED
⎡>	**In**	**115**		ug/L			405191	409524	0	Standard
⎢	**Sb**	**121**	**20.017**	ug/L	0.243	1	30	327226	1	Standard
⎣	**Sb**	**123**	**19.991**	ug/L	0.153	0	29	258598	0	Standard
⎡>	**Tb**	**159**		ug/L			792826	834631	1	Standard
⎢	**Tl**	**205**	**19.958**	ug/L	0.276	1	37	1126132	2	Standard
⎣	**Pb**	**208**	**19.936**	ug/L	0.126	0	184	1475235	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 15:49:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31033	34030	1	Standard
	Cl	**37**		ug/L			7015672	7367012	3	Standard
⌈>	**Sc**	**45**		ug/L			377239	378144	2	Standard
|	**Cr**	**52**	**50.198**	ug/L	1.311	2	13696	834690	1	Standard
|	**Cr**	**53**	**50.440**	ug/L	0.848	1	229	97692	2	Standard
⌊	**Mn**	**55**	**50.299**	ug/L	2.034	4	1000	1211363	3	Standard
⌈>	**Ge**	**72**		ug/L			20450	20471	2	KED
|	**Ni**	**60**	**50.282**	ug/L	1.707	3	10	62662	1	KED
|	**Ni**	**62**	**50.385**	ug/L	1.117	2	0	10504	0	KED
|	**Cu**	**63**	**50.080**	ug/L	0.655	1	49	183606	1	KED
|	**Cu**	**65**	**50.119**	ug/L	1.145	2	25	93169	0	KED
|	**Zn**	**66**	**49.966**	ug/L	1.646	3	41	21336	1	KED
|	**Zn**	**67**	**50.108**	ug/L	1.834	3	4	3538	3	KED
|	**As**	**75**	**50.335**	ug/L	1.299	2	1	11053	0	KED
⌊	**Se**	**78**	**50.241**	ug/L	0.621	1	7	967	1	KED
	Y	**89**		ug/L			239906	230382	1	Standard
	Kr	**83**		ug/L			54	63	12	Standard
⌈>	**In-1**	**115**		ug/L			4706	4737	1	KED
|	**Cd**	**111**	**50.233**	ug/L	0.635	1	1	11341	0	KED
⌊	**Cd**	**114**	**50.322**	ug/L	0.601	1	1	29469	0	KED
⌈>	**In**	**115**		ug/L			405191	392458	2	Standard
|	**Sb**	**121**	**50.478**	ug/L	1.109	2	30	830222	0	Standard
⌊	**Sb**	**123**	**50.388**	ug/L	0.966	1	29	649614	0	Standard
⌈>	**Tb**	**159**		ug/L			792826	823834	0	Standard
|	**Tl**	**205**	**50.312**	ug/L	0.728	1	37	2892075	0	Standard
⌊	**Pb**	**208**	**50.173**	ug/L	0.524	1	184	3728928	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 15:55:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31033	36833	2	Standard
	Cl	**37**		ug/L			7015672	7662653	2	Standard
⌈>	**Sc**	**45**		ug/L			377239	377052	1	Standard
|	**Cr**	**52**	**99.548**	ug/L	1.073	1	13696	1613456	1	Standard
|	**Cr**	**53**	**99.636**	ug/L	0.974	0	229	189904	2	Standard
⌊	**Mn**	**55**	**99.548**	ug/L	1.760	1	1000	2354299	1	Standard
⌈>	**Ge**	**72**		ug/L			20450	20754	1	KED
|	**Ni**	**60**	**98.589**	ug/L	1.790	1	10	118992	0	KED
|	**Ni**	**62**	**98.481**	ug/L	2.686	2	0	19811	1	KED
|	**Cu**	**63**	**98.762**	ug/L	0.815	0	49	352531	1	KED
|	**Cu**	**65**	**98.673**	ug/L	1.570	1	25	178089	0	KED
|	**Zn**	**66**	**99.294**	ug/L	2.047	2	41	41980	0	KED
|	**Zn**	**67**	**98.733**	ug/L	0.971	0	4	6782	2	KED
|	**As**	**75**	**99.482**	ug/L	1.084	1	1	21775	0	KED
⌊	**Se**	**78**	**100.699**	ug/L	2.464	2	7	2004	1	KED
	Y	**89**		ug/L			239906	228600	2	Standard
	Kr	**83**		ug/L			54	69	4	Standard
⌈>	**In-1**	**115**		ug/L			4706	4763	2	KED
|	**Cd**	**111**	**99.421**	ug/L	2.233	2	1	22137	0	KED
⌊	**Cd**	**114**	**99.247**	ug/L	2.482	2	1	56995	0	KED
⌈>	**In**	**115**		ug/L			405191	377774	2	Standard
|	**Sb**	**121**	**99.473**	ug/L	1.989	2	30	1547604	0	Standard
⌊	**Sb**	**123**	**99.514**	ug/L	3.020	3	29	1215029	1	Standard
⌈>	**Tb**	**159**		ug/L			792826	822633	3	Standard
|	**Tl**	**205**	**98.671**	ug/L	3.880	3	37	5418569	0	Standard
⌊	**Pb**	**208**	**98.387**	ug/L	3.472	3	184	6923467	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 16:03:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31033	30144	4	Standard
	Cl	**37**		ug/L			7015672	7348106	2	Standard
⌈>	**Sc**	**45**		ug/L			377239	377324	2	Standard
|	**Cr**	**52**	**0.046**	ug/L	0.020	42	13696	14439	2	Standard
|	**Cr**	**53**	**0.064**	ug/L	0.010	15	229	351	6	Standard
⌊	**Mn**	**55**	**-0.002**	ug/L	0.002	107	1000	952	3	Standard
⌈>	**Ge**	**72**		ug/L			20450	21866	1	KED
|	**Ni**	**60**	**-0.004**	ug/L	0.003	86	10	6	62	KED
|	**Ni**	**62**	**0.003**	ug/L	0.005	186	0	1	86	KED
|	**Cu**	**63**	**-0.003**	ug/L	0.001	21	49	41	4	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.004	110	25	20	31	KED
|	**Zn**	**66**	**-0.022**	ug/L	0.023	106	41	34	29	KED
|	**Zn**	**67**	**-0.004**	ug/L	0.041	1024	4	4	65	KED
|	**As**	**75**	**0.005**	ug/L	0.004	86	1	3	32	KED
⌊	**Se**	**78**	**0.072**	ug/L	0.059	81	7	9	12	KED
	Y	**89**		ug/L			239906	229994	1	Standard
	Kr	**83**		ug/L			54	60	3	Standard
⌈>	**In-1**	**115**		ug/L			4706	4868	0	KED
|	**Cd**	**111**	**0.008**	ug/L	0.005	61	1	3	31	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.002	78	1	2	39	KED
⌈>	**In**	**115**		ug/L			405191	394673	2	Standard
|	**Sb**	**121**	**0.050**	ug/L	0.002	3	30	847	2	Standard
⌊	**Sb**	**123**	**0.050**	ug/L	0.003	5	29	670	3	Standard
⌈>	**Tb**	**159**		ug/L			792826	818757	1	Standard
|	**Tl**	**205**	**0.010**	ug/L	0.001	5	37	560	5	Standard
⌊	**Pb**	**208**	**0.007**	ug/L	0.000	3	184	704	3	Standard

Sample Information

Sample Date/Time: Tuesday, December 27, 2022 15:55:58
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.m
Mass Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Calibration

Analyte	Mass	**r Corr Coef**	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
C	13							
Cl	37							
Sc	45							
Cr	52	**1.0000**	0.043	0.50	10	20	50	100
Cr	53	**0.9999**	0.005	0.50	10	20	50	100
Mn	55	**0.9999**	0.063	0.50	10	20	50	100
Ge	72							
Ni	60	**0.9996**	0.058	0.50	10	20	50	100
Ni	62	**0.9996**	0.010	0.50	10	20	50	100
Cu	63	**0.9997**	0.172	0.50	10	20	50	100
Cu	65	**0.9997**	0.087	0.50	10	20	50	100
Zn	66	**0.9999**	0.020	6.00	10	20	50	100
Zn	67	**0.9997**	0.003	6.00	10	20	50	100
As	75	**0.9999**	0.011	0.20	10	20	50	100
Se	78	**0.9999**	0.001	0.50	10	20	50	100
Y	89							
Kr	83							
In-1	115							
Cd	111	**0.9999**	0.047	0.10	10	20	50	100
Cd	114	**0.9999**	0.121	0.10	10	20	50	100
In	115							
Sb	121	**0.9999**	0.041	0.20	10	20	50	100
Sb	123	**0.9999**	0.032	0.20	10	20	50	100
Tb	159							
Tl	205	**0.9997**	0.067	0.20	10	20	50	100
Pb	208	**0.9996**	0.086	0.10	10	20	50	100

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 16:10:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31033	33964	0	Standard
	Cl	**37**		ug/L			7015672	7631068	2	Standard
⌈>	**Sc**	**45**		ug/L			377239	383466	2	Standard
|	**Cr**	**52**	**51.245**	ug/L	0.429	0	13696	851376	2	Standard
|	**Cr**	**53**	**50.531**	ug/L	0.435	0	229	98044	2	Standard
⌊	**Mn**	**55**	**50.597**	ug/L	0.346	0	1000	1217445	2	Standard
⌈>	**Ge**	**72**		ug/L			20450	21598	0	KED
|	**Ni**	**60**	**50.700**	ug/L	0.174	0	10	63697	0	KED
|	**Ni**	**62**	**49.437**	ug/L	0.258	0	0	10352	0	KED
|	**Cu**	**63**	**50.350**	ug/L	0.412	0	49	187063	0	KED
|	**Cu**	**65**	**50.288**	ug/L	0.182	0	25	94482	0	KED
|	**Zn**	**66**	**48.618**	ug/L	0.199	0	41	21417	0	KED
|	**Zn**	**67**	**49.936**	ug/L	0.697	1	4	3571	1	KED
|	**As**	**75**	**46.394**	ug/L	0.343	0	1	10570	0	KED
⌊	**Se**	**78**	**77.661**	ug/L	1.503	1	7	1610	1	KED
	Y	**89**		ug/L			239906	232472	2	Standard
	Kr	**83**		ug/L			54	65	10	Standard
⌈>	**In-1**	**115**		ug/L			4706	5012	1	KED
|	**Cd**	**111**	**49.207**	ug/L	1.017	2	1	11531	0	KED
⌊	**Cd**	**114**	**48.841**	ug/L	1.143	2	1	29520	1	KED
⌈>	**In**	**115**		ug/L			405191	392492	2	Standard
|	**Sb**	**121**	**49.243**	ug/L	1.810	3	30	795697	0	Standard
⌊	**Sb**	**123**	**49.508**	ug/L	1.874	3	29	627907	1	Standard
⌈>	**Tb**	**159**		ug/L			792826	836689	0	Standard
|	**Tl**	**205**	**50.449**	ug/L	0.489	0	37	2820233	0	Standard
⌊	**Pb**	**208**	**50.515**	ug/L	0.388	0	184	3618441	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 16:17:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31033	29794	1	Standard
	Cl	**37**		ug/L			7015672	7277997	1	Standard
⌈>	**Sc**	**45**		ug/L			377239	379862	1	Standard
|	**Cr**	**52**	**0.040**	ug/L	0.013	32	13696	14441	2	Standard
|	**Cr**	**53**	**0.046**	ug/L	0.002	3	229	319	2	Standard
⌊	**Mn**	**55**	**-0.008**	ug/L	0.002	20	1000	816	6	Standard
⌈>	**Ge**	**72**		ug/L			20450	21934	0	KED
|	**Ni**	**60**	**-0.007**	ug/L	0.002	26	10	2	86	KED
|	**Ni**	**62**	**0.003**	ug/L	0.010	372	0	1	173	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.001	58	49	45	10	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.007	993	25	26	48	KED
|	**Zn**	**66**	**-0.037**	ug/L	0.015	41	41	27	23	KED
|	**Zn**	**67**	**0.022**	ug/L	0.040	182	4	6	45	KED
|	**As**	**75**	**0.008**	ug/L	0.004	49	1	3	25	KED
⌊	**Se**	**78**	**0.088**	ug/L	0.083	94	7	9	18	KED
	Y	**89**		ug/L			239906	229878	4	Standard
	Kr	**83**		ug/L			54	60	23	Standard
⌈>	**In-1**	**115**		ug/L			4706	4965	3	KED
|	**Cd**	**111**	**0.009**	ug/L	0.007	75	1	3	43	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.009	303	1	3	180	KED
⌈>	**In**	**115**		ug/L			405191	401446	2	Standard
|	**Sb**	**121**	**0.021**	ug/L	0.003	15	30	383	12	Standard
⌊	**Sb**	**123**	**0.021**	ug/L	0.002	7	29	299	4	Standard
⌈>	**Tb**	**159**		ug/L			792826	831757	0	Standard
|	**Tl**	**205**	**0.002**	ug/L	0.000	15	37	175	11	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	33	184	281	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 16:22:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31033	32549	3	Standard
	Cl	**37**		ug/L			7015672	7542649	2	Standard
⌈>	**Sc**	**45**		ug/L			377239	382561	1	Standard
|	**Cr**	**52**	**51.369**	ug/L	1.195	2	13696	851446	2	Standard
|	**Cr**	**53**	**51.031**	ug/L	0.837	1	229	98782	1	Standard
⌊	**Mn**	**55**	**51.458**	ug/L	0.780	1	1000	1235153	0	Standard
⌈>	**Ge**	**72**		ug/L			20450	21480	1	KED
|	**Ni**	**60**	**51.258**	ug/L	0.886	1	10	64038	0	KED
|	**Ni**	**62**	**51.201**	ug/L	0.887	1	0	10662	0	KED
|	**Cu**	**63**	**51.110**	ug/L	0.277	0	49	188844	0	KED
|	**Cu**	**65**	**51.444**	ug/L	0.493	0	25	96117	0	KED
|	**Zn**	**66**	**50.332**	ug/L	0.799	1	41	22052	2	KED
|	**Zn**	**67**	**50.876**	ug/L	0.732	1	4	3618	0	KED
|	**As**	**75**	**50.746**	ug/L	0.466	0	1	11497	0	KED
⌊	**Se**	**78**	**50.602**	ug/L	1.531	3	7	1045	1	KED
	Y	**89**		ug/L			239906	229942	1	Standard
	Kr	**83**		ug/L			54	49	23	Standard
⌈>	**In-1**	**115**		ug/L			4706	4885	2	KED
|	**Cd**	**111**	**51.610**	ug/L	1.510	2	1	11785	1	KED
⌊	**Cd**	**114**	**51.157**	ug/L	1.127	2	1	30132	1	KED
⌈>	**In**	**115**		ug/L			405191	391863	1	Standard
|	**Sb**	**121**	**50.806**	ug/L	0.946	1	30	820128	1	Standard
⌊	**Sb**	**123**	**50.776**	ug/L	0.473	0	29	643370	1	Standard
⌈>	**Tb**	**159**		ug/L			792826	838967	1	Standard
|	**Tl**	**205**	**50.960**	ug/L	0.645	1	37	2856736	1	Standard
⌊	**Pb**	**208**	**51.414**	ug/L	0.406	0	184	3692762	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 16:30:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31033	30152	0	Standard
	Cl	**37**		ug/L			7015672	7365214	1	Standard
⌈>	**Sc**	**45**		ug/L			377239	385627	1	Standard
|	**Cr**	**52**	**0.059**	ug/L	0.020	34	13696	14969	1	Standard
|	**Cr**	**53**	**0.034**	ug/L	0.012	34	229	300	7	Standard
⌊	**Mn**	**55**	**-0.008**	ug/L	0.002	23	1000	839	6	Standard
⌈>	**Ge**	**72**		ug/L			20450	22242	0	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.002	53	10	6	31	KED
|	**Ni**	**62**	**-0.000**	ug/L	0.005	1900	0	0	173	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.003	386	49	50	23	KED
|	**Cu**	**65**	**0.001**	ug/L	0.004	242	25	30	22	KED
|	**Zn**	**66**	**-0.030**	ug/L	0.017	55	41	31	24	KED
|	**Zn**	**67**	**0.038**	ug/L	0.026	67	4	7	25	KED
|	**As**	**75**	**0.003**	ug/L	0.003	91	1	2	26	KED
⌊	**Se**	**78**	**0.015**	ug/L	0.126	855	7	7	33	KED
	Y	**89**		ug/L			239906	232128	0	Standard
	Kr	**83**		ug/L			54	62	18	Standard
⌈>	**In-1**	**115**		ug/L			4706	5099	4	KED
|	**Cd**	**111**	**0.001**	ug/L	0.004	528	1	1	50	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.006	568	1	1	180	KED
⌈>	**In**	**115**		ug/L			405191	404894	1	Standard
|	**Sb**	**121**	**0.017**	ug/L	0.003	18	30	314	15	Standard
⌊	**Sb**	**123**	**0.020**	ug/L	0.001	4	29	290	4	Standard
⌈>	**Tb**	**159**		ug/L			792826	841171	0	Standard
|	**Tl**	**205**	**0.004**	ug/L	0.001	15	37	250	12	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	49	184	300	17	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 16:35:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31033	33128	0	Standard
	Cl	**37**		ug/L			7015672	7252375	2	Standard
⌈>	**Sc**	**45**		ug/L			377239	381484	1	Standard
|	**Cr**	**52**	**0.553**	ug/L	0.063	11	13696	22832	3	Standard
|	**Cr**	**53**	**0.521**	ug/L	0.024	4	229	1235	2	Standard
⌊	**Mn**	**55**	**0.492**	ug/L	0.004	0	1000	12788	0	Standard
⌈>	**Ge**	**72**		ug/L			20450	21854	1	KED
|	**Ni**	**60**	**0.500**	ug/L	0.014	2	10	646	2	KED
|	**Ni**	**62**	**0.500**	ug/L	0.047	9	0	106	9	KED
|	**Cu**	**63**	**0.508**	ug/L	0.016	3	49	1962	4	KED
|	**Cu**	**65**	**0.522**	ug/L	0.033	6	25	1018	5	KED
|	**Zn**	**66**	**5.951**	ug/L	0.096	1	41	2691	2	KED
|	**Zn**	**67**	**5.809**	ug/L	0.336	5	4	424	6	KED
|	**As**	**75**	**0.201**	ug/L	0.010	4	1	48	3	KED
⌊	**Se**	**78**	**0.530**	ug/L	0.181	34	7	18	20	KED
	Y	**89**		ug/L			239906	230448	0	Standard
	Kr	**83**		ug/L			54	42	29	Standard
⌈>	**In-1**	**115**		ug/L			4706	5084	3	KED
|	**Cd**	**111**	**0.093**	ug/L	0.025	27	1	23	22	KED
⌊	**Cd**	**114**	**0.081**	ug/L	0.026	31	1	51	33	KED
⌈>	**In**	**115**		ug/L			405191	404973	2	Standard
|	**Sb**	**121**	**0.208**	ug/L	0.006	2	30	3498	0	Standard
⌊	**Sb**	**123**	**0.198**	ug/L	0.012	6	29	2615	4	Standard
⌈>	**Tb**	**159**		ug/L			792826	837186	0	Standard
|	**Tl**	**205**	**0.211**	ug/L	0.006	2	37	11839	2	Standard
⌊	**Pb**	**208**	**0.110**	ug/L	0.001	1	184	8084	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, December 27, 2022 16:40:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31033	150415	4	Standard
	Cl	**37**		ug/L			7015672	13494652	4	Standard
>	**Sc**	**45**		ug/L			377239	367948	1	Standard
	Cr	**52**	**1.052**	ug/L	0.036	3	13696	29848	2	Standard
	Cr	**53**	**9.309**	ug/L	0.156	1	229	17518	3	Standard
	Mn	**55**	**0.077**	ug/L	0.002	2	1000	2747	1	Standard
>	**Ge**	**72**		ug/L			20450	21196	1	KED
	Ni	**60**	**0.091**	ug/L	0.011	12	10	122	13	KED
	Ni	**62**	**0.164**	ug/L	0.019	11	0	34	11	KED
	Cu	**63**	**0.041**	ug/L	0.008	20	49	200	13	KED
	Cu	**65**	**0.041**	ug/L	0.006	15	25	102	10	KED
	Zn	**66**	**0.295**	ug/L	0.026	8	41	170	5	KED
	Zn	**67**	**0.179**	ug/L	0.074	41	4	17	29	KED
	As	**75**	**0.030**	ug/L	0.019	61	1	8	47	KED
	Se	**78**	**0.172**	ug/L	0.073	42	7	10	15	KED
	Y	**89**		ug/L			239906	230903	1	Standard
	Kr	**83**		ug/L			54	60	19	Standard
>	**In-1**	**115**		ug/L			4706	4773	3	KED
	Cd	**111**	**0.077**	ug/L	0.021	27	1	18	22	KED
	Cd	**114**	**0.064**	ug/L	0.019	29	1	37	27	KED
>	**In**	**115**		ug/L			405191	382275	1	Standard
	Sb	**121**	**0.034**	ug/L	0.001	2	30	566	1	Standard
	Sb	**123**	**0.032**	ug/L	0.002	6	29	418	6	Standard
>	**Tb**	**159**		ug/L			792826	825666	1	Standard
	Tl	**205**	**0.019**	ug/L	0.001	2	37	1081	4	Standard
	Pb	**208**	**0.035**	ug/L	0.002	5	184	2645	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 16:45:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31033	121378	3	Standard
	Cl	**37**		ug/L			7015672	13242996	3	Standard
⌈>	**Sc**	**45**		ug/L			377239	369368	2	Standard
|	**Cr**	**52**	**21.140**	ug/L	0.095	0	13696	346235	2	Standard
|	**Cr**	**53**	**28.765**	ug/L	0.484	1	229	53861	2	Standard
⌊	**Mn**	**55**	**20.498**	ug/L	0.120	0	1000	475765	2	Standard
⌈>	**Ge**	**72**		ug/L			20450	21152	1	KED
|	**Ni**	**60**	**20.129**	ug/L	0.141	0	10	24771	0	KED
|	**Ni**	**62**	**20.389**	ug/L	0.749	3	0	4182	4	KED
|	**Cu**	**63**	**19.699**	ug/L	0.267	1	49	71705	1	KED
|	**Cu**	**65**	**19.945**	ug/L	0.180	0	25	36712	0	KED
|	**Zn**	**66**	**18.904**	ug/L	0.385	2	41	8180	1	KED
|	**Zn**	**67**	**17.444**	ug/L	0.512	2	4	1224	2	KED
|	**As**	**75**	**19.406**	ug/L	0.164	0	1	4330	0	KED
⌊	**Se**	**78**	**0.061**	ug/L	0.202	328	7	8	48	KED
	Y	**89**		ug/L			239906	229475	4	Standard
	Kr	**83**		ug/L			54	61	9	Standard
⌈>	**In-1**	**115**		ug/L			4706	4761	2	KED
|	**Cd**	**111**	**19.444**	ug/L	0.513	2	1	4328	0	KED
⌊	**Cd**	**114**	**19.455**	ug/L	0.988	5	1	11164	2	KED
⌈>	**In**	**115**		ug/L			405191	394613	4	Standard
|	**Sb**	**121**	**0.038**	ug/L	0.003	7	30	652	4	Standard
⌊	**Sb**	**123**	**0.042**	ug/L	0.002	5	29	559	0	Standard
⌈>	**Tb**	**159**		ug/L			792826	840065	1	Standard
|	**Tl**	**205**	**0.020**	ug/L	0.001	5	37	1156	5	Standard
⌊	**Pb**	**208**	**0.035**	ug/L	0.000	1	184	2707	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 16:49:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31033	33272	2	Standard
	Cl	**37**		ug/L			7015672	7919557	3	Standard
⎡>	**Sc**	**45**		ug/L			377239	372627	2	Standard
⎢	**Cr**	**52**	**197.317**	ug/L	0.683	0	13696	3147210	1	Standard
⎢	**Cr**	**53**	**203.229**	ug/L	3.725	1	229	382506	2	Standard
⎣	**Mn**	**55**	**199.006**	ug/L	3.286	1	1000	4651470	3	Standard
⎡>	**Ge**	**72**		ug/L			20450	21564	1	KED
⎢	**Ni**	**60**	**192.160**	ug/L	5.433	2	10	240942	1	KED
⎢	**Ni**	**62**	**191.870**	ug/L	5.223	2	0	40104	1	KED
⎢	**Cu**	**63**	**185.343**	ug/L	2.541	1	49	687280	0	KED
⎢	**Cu**	**65**	**191.986**	ug/L	5.159	2	25	359968	1	KED
⎢	**Zn**	**66**	**183.477**	ug/L	1.485	0	41	80577	1	KED
⎢	**Zn**	**67**	**193.718**	ug/L	3.017	1	4	13819	0	KED
⎢	**As**	**75**	**195.769**	ug/L	5.413	2	1	44515	1	KED
⎣	**Se**	**78**	**187.480**	ug/L	1.525	0	7	3871	0	KED
	Y	**89**		ug/L			239906	221415	1	Standard
	Kr	**83**		ug/L			54	72	13	Standard
⎡>	**In-1**	**115**		ug/L			4706	4855	1	KED
⎢	**Cd**	**111**	**195.158**	ug/L	2.346	1	1	44304	0	KED
⎣	**Cd**	**114**	**194.581**	ug/L	2.921	1	1	113936	1	KED
⎡>	**In**	**115**		ug/L			405191	363863	1	Standard
⎢	**Sb**	**121**	**192.497**	ug/L	5.179	2	30	2885031	1	Standard
⎣	**Sb**	**123**	**188.859**	ug/L	3.831	2	29	2221743	1	Standard
⎡>	**Tb**	**159**		ug/L			792826	811929	0	Standard
⎢	**Tl**	**205**	**194.835**	ug/L	0.966	0	37	10569847	0	Standard
⎣	**Pb**	**208**	**196.896**	ug/L	1.651	0	184	13686019	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 16:54:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31033	33284	1	Standard
	Cl	**37**		ug/L			7015672	7913158	2	Standard
⌈>	**Sc**	**45**		ug/L			377239	374586	1	Standard
|	**Cr**	**52**	**284.143**	ug/L	5.974	2	13696	4549722	2	Standard
|	**Cr**	**53**	**297.120**	ug/L	4.092	1	229	562070	1	Standard
⌊	**Mn**	**55**	**296.725**	ug/L	1.102	0	1000	6970138	1	Standard
⌈>	**Ge**	**72**		ug/L			20450	21377	0	KED
|	**Ni**	**60**	**273.959**	ug/L	3.873	1	10	340619	1	KED
|	**Ni**	**62**	**277.165**	ug/L	5.538	1	0	57443	1	KED
|	**Cu**	**63**	**267.026**	ug/L	2.876	1	49	981717	1	KED
|	**Cu**	**65**	**271.640**	ug/L	3.592	1	25	505023	1	KED
|	**Zn**	**66**	**263.883**	ug/L	2.037	0	41	114865	0	KED
|	**Zn**	**67**	**270.519**	ug/L	3.609	1	4	19130	0	KED
|	**As**	**75**	**287.838**	ug/L	1.139	0	1	64900	0	KED
⌊	**Se**	**78**	**271.739**	ug/L	2.670	0	7	5559	0	KED
	Y	**89**		ug/L			239906	205603	4	Standard
	Kr	**83**		ug/L			54	194	5	Standard
⌈>	**In-1**	**115**		ug/L			4706	4923	1	KED
|	**Cd**	**111**	**280.382**	ug/L	3.140	1	1	64545	0	KED
⌊	**Cd**	**114**	**280.274**	ug/L	7.725	2	1	166412	2	KED
⌈>	**In**	**115**		ug/L			405191	329890	1	Standard
|	**Sb**	**121**	**289.740**	ug/L	5.474	1	30	3936839	0	Standard
⌊	**Sb**	**123**	**283.510**	ug/L	5.682	2	29	3023426	0	Standard
⌈>	**Tb**	**159**		ug/L			792826	745500	2	Standard
|	**Tl**	**205**	**299.060**	ug/L	9.704	3	37	14890114	1	Standard
⌊	**Pb**	**208**	**294.390**	ug/L	4.697	1	184	18785338	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 17:02:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31033	34347	1	Standard
	Cl	**37**		ug/L			7015672	7836795	2	Standard
⌈>	**Sc**	**45**		ug/L			377239	385423	3	Standard
|	**Cr**	**52**	**0.170**	ug/L	0.035	20	13696	16801	6	Standard
|	**Cr**	**53**	**0.111**	ug/L	0.040	36	229	452	20	Standard
⌊	**Mn**	**55**	**0.033**	ug/L	0.043	131	1000	1837	60	Standard
⌈>	**Ge**	**72**		ug/L			20450	23124	1	KED
|	**Ni**	**60**	**0.041**	ug/L	0.009	22	10	66	20	KED
|	**Ni**	**62**	**0.084**	ug/L	0.023	27	0	19	27	KED
|	**Cu**	**63**	**0.050**	ug/L	0.007	13	49	252	8	KED
|	**Cu**	**65**	**0.058**	ug/L	0.009	16	25	144	13	KED
|	**Zn**	**66**	**0.061**	ug/L	0.032	51	41	75	20	KED
|	**Zn**	**67**	**0.092**	ug/L	0.017	18	4	12	9	KED
|	**As**	**75**	**0.083**	ug/L	0.007	7	1	22	8	KED
⌊	**Se**	**78**	**0.151**	ug/L	0.071	47	7	11	14	KED
	Y	**89**		ug/L			239906	217495	2	Standard
	Kr	**83**		ug/L			54	52	5	Standard
⌈>	**In-1**	**115**		ug/L			4706	5423	2	KED
|	**Cd**	**111**	**0.004**	ug/L	0.008	183	1	2	66	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.006	161	1	3	100	KED
⌈>	**In**	**115**		ug/L			405191	384433	0	Standard
|	**Sb**	**121**	**0.134**	ug/L	0.053	39	30	2146	38	Standard
⌊	**Sb**	**123**	**0.133**	ug/L	0.043	32	29	1680	31	Standard
⌈>	**Tb**	**159**		ug/L			792826	854798	1	Standard
|	**Tl**	**205**	**0.061**	ug/L	0.061	101	37	3527	100	Standard
⌊	**Pb**	**208**	**0.042**	ug/L	0.057	135	184	3311	128	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 17:08:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31033	118373	4	Standard
	Cl	**37**		ug/L			7015672	13644058	2	Standard
>	**Sc**	**45**		ug/L			377239	362387	2	Standard
	Cr	**52**	**0.966**	ug/L	0.027	2	13696	28077	1	Standard
	Cr	**53**	**9.201**	ug/L	0.269	2	229	17047	2	Standard
	Mn	**55**	**0.071**	ug/L	0.001	1	1000	2578	3	Standard
>	**Ge**	**72**		ug/L			20450	21904	0	KED
	Ni	**60**	**0.105**	ug/L	0.016	14	10	144	13	KED
	Ni	**62**	**0.120**	ug/L	0.028	23	0	26	22	KED
	Cu	**63**	**0.037**	ug/L	0.002	6	49	191	3	KED
	Cu	**65**	**0.034**	ug/L	0.005	15	25	92	10	KED
	Zn	**66**	**0.872**	ug/L	0.035	4	41	433	2	KED
	Zn	**67**	**0.898**	ug/L	0.059	6	4	69	6	KED
	As	**75**	**0.085**	ug/L	0.006	6	1	21	5	KED
	Se	**78**	**0.079**	ug/L	0.059	75	7	9	14	KED
	Y	**89**		ug/L			239906	222764	2	Standard
	Kr	**83**		ug/L			54	61	22	Standard
>	**In-1**	**115**		ug/L			4706	4941	3	KED
	Cd	**111**	**0.077**	ug/L	0.010	13	1	19	10	KED
	Cd	**114**	**0.053**	ug/L	0.006	10	1	32	13	KED
>	**In**	**115**		ug/L			405191	368756	0	Standard
	Sb	**121**	**0.080**	ug/L	0.001	1	30	1236	1	Standard
	Sb	**123**	**0.080**	ug/L	0.003	3	29	976	2	Standard
>	**Tb**	**159**		ug/L			792826	833115	0	Standard
	Tl	**205**	**0.037**	ug/L	0.001	2	37	2079	1	Standard
	Pb	**208**	**0.037**	ug/L	0.002	5	184	2798	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 17:13:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31033	33090	2	Standard
	Cl	**37**		ug/L			7015672	7643562	1	Standard
⌈>	**Sc**	**45**		ug/L			377239	370139	1	Standard
|	**Cr**	**52**	**0.133**	ug/L	0.027	20	13696	15537	2	Standard
|	**Cr**	**53**	**0.217**	ug/L	0.017	7	229	630	5	Standard
⌊	**Mn**	**55**	**0.013**	ug/L	0.001	6	1000	1278	0	Standard
⌈>	**Ge**	**72**		ug/L			20450	23095	0	KED
|	**Ni**	**60**	**-0.000**	ug/L	0.001	3995	10	11	16	KED
|	**Ni**	**62**	**0.022**	ug/L	0.023	101	0	5	88	KED
|	**Cu**	**63**	**0.007**	ug/L	0.006	83	49	85	28	KED
|	**Cu**	**65**	**0.010**	ug/L	0.005	48	25	49	20	KED
|	**Zn**	**66**	**0.020**	ug/L	0.024	120	41	55	19	KED
|	**Zn**	**67**	**0.043**	ug/L	0.095	222	4	8	87	KED
|	**As**	**75**	**0.007**	ug/L	0.007	108	1	3	49	KED
⌊	**Se**	**78**	**0.076**	ug/L	0.085	111	7	9	19	KED
	Y	**89**		ug/L			239906	219718	1	Standard
	Kr	**83**		ug/L			54	64	14	Standard
⌈>	**In-1**	**115**		ug/L			4706	5265	2	KED
|	**Cd**	**111**	**0.007**	ug/L	0.004	58	1	3	31	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.005	82	1	4	58	KED
⌈>	**In**	**115**		ug/L			405191	391192	2	Standard
|	**Sb**	**121**	**0.026**	ug/L	0.003	9	30	453	10	Standard
⌊	**Sb**	**123**	**0.024**	ug/L	0.000	1	29	330	2	Standard
⌈>	**Tb**	**159**		ug/L			792826	870550	1	Standard
|	**Tl**	**205**	**0.024**	ug/L	0.001	3	37	1417	1	Standard
⌊	**Pb**	**208**	**0.007**	ug/L	0.000	3	184	749	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL4
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 17:19:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31033	35135	2	Standard
	Cl	**37**		ug/L			7015672	7654601	2	Standard
⌈>	**Sc**	**45**		ug/L			377239	384474	0	Standard
|	**Cr**	**52**	**0.096**	ug/L	0.001	1	13696	15526	0	Standard
|	**Cr**	**53**	**0.126**	ug/L	0.007	5	229	477	3	Standard
⌊	**Mn**	**55**	**0.005**	ug/L	0.003	67	1000	1136	6	Standard
⌈>	**Ge**	**72**		ug/L			20450	23524	2	KED
|	**Ni**	**60**	**0.001**	ug/L	0.007	850	10	12	73	KED
|	**Ni**	**62**	**0.011**	ug/L	0.005	45	0	3	34	KED
|	**Cu**	**63**	**0.001**	ug/L	0.004	326	49	61	23	KED
|	**Cu**	**65**	**0.004**	ug/L	0.006	147	25	38	35	KED
|	**Zn**	**66**	**-0.012**	ug/L	0.016	139	41	41	19	KED
|	**Zn**	**67**	**0.065**	ug/L	0.013	20	4	10	10	KED
|	**As**	**75**	**0.007**	ug/L	0.002	21	1	3	12	KED
⌊	**Se**	**78**	**-0.065**	ug/L	0.086	132	7	6	29	KED
	Y	**89**		ug/L			239906	222214	2	Standard
	Kr	**83**		ug/L			54	63	10	Standard
⌈>	**In-1**	**115**		ug/L			4706	5342	0	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.004	111	1	0	100	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.000	3	1	1	1	KED
⌈>	**In**	**115**		ug/L			405191	398934	3	Standard
|	**Sb**	**121**	**0.022**	ug/L	0.001	6	30	384	9	Standard
⌊	**Sb**	**123**	**0.022**	ug/L	0.001	6	29	308	3	Standard
⌈>	**Tb**	**159**		ug/L			792826	884042	0	Standard
|	**Tl**	**205**	**0.014**	ug/L	0.000	1	37	848	1	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	12	184	460	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, December 27, 2022 17:24:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31033	29843	3	Standard
	Cl	**37**		ug/L			7015672	7987868	1	Standard
⌈>	**Sc**	**45**		ug/L			377239	379821	2	Standard
|	**Cr**	**52**	**52.697**	ug/L	0.563	1	13696	866901	2	Standard
|	**Cr**	**53**	**52.564**	ug/L	1.913	3	229	101019	4	Standard
⌊	**Mn**	**55**	**52.053**	ug/L	0.850	1	1000	1240426	0	Standard
⌈>	**Ge**	**72**		ug/L			20450	23470	2	KED
|	**Ni**	**60**	**48.639**	ug/L	0.624	1	10	66393	0	KED
|	**Ni**	**62**	**48.043**	ug/L	1.454	3	0	10928	1	KED
|	**Cu**	**63**	**48.726**	ug/L	0.926	1	49	196668	0	KED
|	**Cu**	**65**	**49.485**	ug/L	0.597	1	25	101015	1	KED
|	**Zn**	**66**	**49.304**	ug/L	1.548	3	41	23591	0	KED
|	**Zn**	**67**	**49.197**	ug/L	0.788	1	4	3823	0	KED
|	**As**	**75**	**49.298**	ug/L	1.571	3	1	12200	1	KED
⌊	**Se**	**78**	**47.814**	ug/L	0.730	1	7	1080	0	KED
	Y	**89**		ug/L			239906	217879	0	Standard
	Kr	**83**		ug/L			54	59	11	Standard
⌈>	**In-1**	**115**		ug/L			4706	4693	21	KED
|	**Cd**	**111**	**58.444**	ug/L	14.757	25	1	12355	0	KED
⌊	**Cd**	**114**	**58.668**	ug/L	16.299	27	1	31865	2	KED
⌈>	**In**	**115**		ug/L			405191	382878	2	Standard
|	**Sb**	**121**	**50.832**	ug/L	1.133	2	30	801557	1	Standard
⌊	**Sb**	**123**	**50.954**	ug/L	1.317	2	29	630626	1	Standard
⌈>	**Tb**	**159**		ug/L			792826	879049	1	Standard
|	**Tl**	**205**	**50.364**	ug/L	0.485	0	37	2957985	1	Standard
⌊	**Pb**	**208**	**50.041**	ug/L	0.578	1	184	3765599	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 17:31:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31033	30873	2	Standard
	Cl	**37**		ug/L			7015672	7950705	2	Standard
⌈>	**Sc**	**45**		ug/L			377239	375167	2	Standard
|	**Cr**	**52**	**53.524**	ug/L	1.424	2	13696	869150	1	Standard
|	**Cr**	**53**	**53.888**	ug/L	0.792	1	229	102271	1	Standard
⌊	**Mn**	**55**	**53.510**	ug/L	1.510	2	1000	1259221	1	Standard
⌈>	**Ge**	**72**		ug/L			20450	23314	0	KED
|	**Ni**	**60**	**48.802**	ug/L	0.810	1	10	66179	1	KED
|	**Ni**	**62**	**48.418**	ug/L	1.207	2	0	10944	2	KED
|	**Cu**	**63**	**48.913**	ug/L	0.930	1	49	196143	1	KED
|	**Cu**	**65**	**49.174**	ug/L	0.592	1	25	99723	0	KED
|	**Zn**	**66**	**50.020**	ug/L	1.239	2	41	23782	1	KED
|	**Zn**	**67**	**51.849**	ug/L	2.258	4	4	4003	4	KED
|	**As**	**75**	**49.811**	ug/L	0.692	1	1	12250	1	KED
⌊	**Se**	**78**	**49.052**	ug/L	1.371	2	7	1100	2	KED
	Y	**89**		ug/L			239906	218394	0	Standard
	Kr	**83**		ug/L			54	66	9	Standard
⌈>	**In-1**	**115**		ug/L			4706	5323	3	KED
|	**Cd**	**111**	**51.289**	ug/L	1.866	3	1	12761	2	KED
⌊	**Cd**	**114**	**51.112**	ug/L	1.440	2	1	32802	1	KED
⌈>	**In**	**115**		ug/L			405191	375199	3	Standard
|	**Sb**	**121**	**52.355**	ug/L	1.120	2	30	808893	1	Standard
⌊	**Sb**	**123**	**51.449**	ug/L	1.576	3	29	623756	0	Standard
⌈>	**Tb**	**159**		ug/L			792826	870940	1	Standard
|	**Tl**	**205**	**49.519**	ug/L	1.390	2	37	2881210	1	Standard
⌊	**Pb**	**208**	**50.493**	ug/L	0.788	1	184	3764694	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 17:39:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31033	27163	0	Standard
	Cl	**37**		ug/L			7015672	7797028	2	Standard
⌈>	**Sc**	**45**		ug/L			377239	377577	2	Standard
|	**Cr**	**52**	**0.100**	ug/L	0.028	28	13696	15310	1	Standard
|	**Cr**	**53**	**0.088**	ug/L	0.017	19	229	396	5	Standard
⌊	**Mn**	**55**	**0.005**	ug/L	0.003	60	1000	1121	4	Standard
⌈>	**Ge**	**72**		ug/L			20450	23687	0	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.003	82	10	6	56	KED
|	**Ni**	**62**	**0.005**	ug/L	0.008	162	0	1	100	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.004	314	49	52	31	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.001	30	25	25	4	KED
|	**Zn**	**66**	**0.050**	ug/L	0.017	33	41	71	11	KED
|	**Zn**	**67**	**0.072**	ug/L	0.013	18	4	10	10	KED
|	**As**	**75**	**0.010**	ug/L	0.007	73	1	4	40	KED
⌊	**Se**	**78**	**-0.018**	ug/L	0.125	686	7	7	36	KED
	Y	**89**		ug/L			239906	216852	2	Standard
	Kr	**83**		ug/L			54	54	7	Standard
⌈>	**In-1**	**115**		ug/L			4706	5449	1	KED
|	**Cd**	**111**	**0.002**	ug/L	0.008	494	1	2	89	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.009	212	1	4	144	KED
⌈>	**In**	**115**		ug/L			405191	393186	3	Standard
|	**Sb**	**121**	**0.023**	ug/L	0.001	4	30	406	7	Standard
⌊	**Sb**	**123**	**0.023**	ug/L	0.001	5	29	318	3	Standard
⌈>	**Tb**	**159**		ug/L			792826	869137	1	Standard
|	**Tl**	**205**	**0.008**	ug/L	0.000	0	37	504	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	28	184	292	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 17:45:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				27825	3	Standard
	Cl	**37**		ug/L				7666632	2	Standard
⌈>	**Sc**	**45**		ug/L				374444	1	Standard
|	**Cr**	**52**		ug/L				14994	3	Standard
|	**Cr**	**53**		ug/L				383	8	Standard
⌊	**Mn**	**55**		ug/L				882	4	Standard
⌈>	**Ge**	**72**		ug/L				23830	1	KED
|	**Ni**	**60**		ug/L				6	41	KED
|	**Ni**	**62**		ug/L				2	114	KED
|	**Cu**	**63**		ug/L				33	18	KED
|	**Cu**	**65**		ug/L				20	28	KED
|	**Zn**	**66**		ug/L				27	24	KED
|	**Zn**	**67**		ug/L				1		KED
|	**As**	**75**		ug/L				3	49	KED
⌊	**Se**	**78**		ug/L				9	13	KED
	Y	**89**		ug/L				217874	0	Standard
	Kr	**83**		ug/L				50	15	Standard
⌈>	**In-1**	**115**		ug/L				5372	2	KED
|	**Cd**	**111**		ug/L				1	34	KED
⌊	**Cd**	**114**		ug/L				2	122	KED
⌈>	**In**	**115**		ug/L				392470	1	Standard
|	**Sb**	**121**		ug/L				233	9	Standard
⌊	**Sb**	**123**		ug/L				190	7	Standard
⌈>	**Tb**	**159**		ug/L				877191	2	Standard
|	**Tl**	**205**		ug/L				296	15	Standard
⌊	**Pb**	**208**		ug/L				191	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 17:50:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27825	30306	1	Standard
	Cl	**37**		ug/L			7666632	7913925	1	Standard
⌈>	**Sc**	**45**		ug/L			374444	385986	0	Standard
|	**Cr**	**52**	**51.699**	ug/L	0.785	1	14994	865975	1	Standard
|	**Cr**	**53**	**52.279**	ug/L	0.912	1	383	102263	1	Standard
⌊	**Mn**	**55**	**51.856**	ug/L	1.109	2	882	1255810	1	Standard
⌈>	**Ge**	**72**		ug/L			23830	23520	0	KED
|	**Ni**	**60**	**48.355**	ug/L	0.332	0	6	66152	0	KED
|	**Ni**	**62**	**48.782**	ug/L	0.426	0	2	11126	1	KED
|	**Cu**	**63**	**49.089**	ug/L	0.567	1	33	198577	0	KED
|	**Cu**	**65**	**48.979**	ug/L	0.552	1	20	100205	1	KED
|	**Zn**	**66**	**48.276**	ug/L	0.318	0	27	23139	1	KED
|	**Zn**	**67**	**50.324**	ug/L	1.284	2	1	3916	2	KED
|	**As**	**75**	**49.208**	ug/L	0.330	0	3	12210	0	KED
⌊	**Se**	**78**	**48.362**	ug/L	0.947	1	9	1096	2	KED
	Y	**89**		ug/L			217874	222646	2	Standard
	Kr	**83**		ug/L			50	60	13	Standard
⌈>	**In-1**	**115**		ug/L			5372	5315	1	KED
|	**Cd**	**111**	**49.902**	ug/L	0.569	1	1	12401	0	KED
⌊	**Cd**	**114**	**50.265**	ug/L	0.688	1	2	32220	0	KED
⌈>	**In**	**115**		ug/L			392470	387843	2	Standard
|	**Sb**	**121**	**50.260**	ug/L	1.135	2	233	803130	1	Standard
⌊	**Sb**	**123**	**50.265**	ug/L	0.932	1	190	630537	2	Standard
⌈>	**Tb**	**159**		ug/L			877191	886691	0	Standard
|	**Tl**	**205**	**49.253**	ug/L	0.895	1	296	2918311	1	Standard
⌊	**Pb**	**208**	**49.599**	ug/L	0.672	1	191	3765254	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 17:58:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27825	27459	2	Standard
	Cl	**37**		ug/L			7666632	7647449	2	Standard
⌈>	**Sc**	**45**		ug/L			374444	379791	2	Standard
|	**Cr**	**52**	**0.000**	ug/L	0.008	1921	14994	15215	3	Standard
|	**Cr**	**53**	**-0.013**	ug/L	0.012	95	383	364	9	Standard
⌊	**Mn**	**55**	**0.000**	ug/L	0.001	1214	882	897	3	Standard
⌈>	**Ge**	**72**		ug/L			23830	23622	0	KED
|	**Ni**	**60**	**0.000**	ug/L	0.004	7835	6	6	87	KED
|	**Ni**	**62**	**-0.005**	ug/L	0.005	87	2	1	86	KED
|	**Cu**	**63**	**0.001**	ug/L	0.000	36	33	38	5	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.002	106	20	17	19	KED
|	**Zn**	**66**	**0.003**	ug/L	0.014	452	27	28	24	KED
|	**Zn**	**67**	**0.025**	ug/L	0.025	100	1	3	50	KED
|	**As**	**75**	**0.001**	ug/L	0.004	313	3	3	27	KED
⌊	**Se**	**78**	**-0.068**	ug/L	0.089	131	9	8	23	KED
	Y	**89**		ug/L			217874	215685	2	Standard
	Kr	**83**		ug/L			50	60	3	Standard
⌈>	**In-1**	**115**		ug/L			5372	5461	1	KED
|	**Cd**	**111**	**0.006**	ug/L	0.005	90	1	3	45	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.003	302	2	1	111	KED
⌈>	**In**	**115**		ug/L			392470	388751	1	Standard
|	**Sb**	**121**	**0.008**	ug/L	0.001	17	233	362	5	Standard
⌊	**Sb**	**123**	**0.005**	ug/L	0.001	18	190	256	5	Standard
⌈>	**Tb**	**159**		ug/L			877191	886161	0	Standard
|	**Tl**	**205**	**0.002**	ug/L	0.000	13	296	394	2	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	29	191	240	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0323-BLK3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 18:07:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27825	44364	2	Standard
	Cl	**37**		ug/L			7666632	7666566	2	Standard
⌈>	**Sc**	**45**		ug/L			374444	398955	0	Standard
|	**Cr**	**52**	**0.076**	ug/L	0.042	55	14994	17260	3	Standard
|	**Cr**	**53**	**0.096**	ug/L	0.017	17	383	601	5	Standard
⌊	**Mn**	**55**	**0.031**	ug/L	0.002	5	882	1722	2	Standard
⌈>	**Ge**	**72**		ug/L			23830	23820	2	KED
|	**Ni**	**60**	**0.023**	ug/L	0.007	28	6	38	24	KED
|	**Ni**	**62**	**0.036**	ug/L	0.018	50	2	10	36	KED
|	**Cu**	**63**	**0.014**	ug/L	0.005	36	33	90	24	KED
|	**Cu**	**65**	**0.011**	ug/L	0.002	20	20	43	11	KED
|	**Zn**	**66**	**0.150**	ug/L	0.041	27	27	99	18	KED
|	**Zn**	**67**	**0.145**	ug/L	0.025	17	1	13	14	KED
|	**As**	**75**	**-0.001**	ug/L	0.007	507	3	3	51	KED
⌊	**Se**	**78**	**0.004**	ug/L	0.064	1456	9	9	16	KED
	Y	**89**		ug/L			217874	220156	1	Standard
	Kr	**83**		ug/L			50	50	4	Standard
⌈>	**In-1**	**115**		ug/L			5372	5606	3	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.007	1771	1	1	124	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.002	4832	2	2	46	KED
⌈>	**In**	**115**		ug/L			392470	394274	1	Standard
|	**Sb**	**121**	**0.003**	ug/L	0.001	24	233	276	4	Standard
⌊	**Sb**	**123**	**0.003**	ug/L	0.002	73	190	226	11	Standard
⌈>	**Tb**	**159**		ug/L			877191	886176	1	Standard
|	**Tl**	**205**	**-0.001**	ug/L	0.000	31	296	212	15	Standard
⌊	**Pb**	**208**	**0.007**	ug/L	0.001	11	191	752	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0323-BS3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 18:12:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27825	44314	4	Standard
	Cl	**37**		ug/L			7666632	7563352	2	Standard
⌈>	**Sc**	**45**		ug/L			374444	392383	2	Standard
|	**Cr**	**52**	**25.702**	ug/L	0.714	2	14994	445405	1	Standard
|	**Cr**	**53**	**25.614**	ug/L	0.210	0	383	51136	1	Standard
⌊	**Mn**	**55**	**26.292**	ug/L	0.697	2	882	647541	0	Standard
⌈>	**Ge**	**72**		ug/L			23830	23581	0	KED
|	**Ni**	**60**	**24.752**	ug/L	0.117	0	6	33952	0	KED
|	**Ni**	**62**	**25.206**	ug/L	0.621	2	2	5765	2	KED
|	**Cu**	**63**	**25.037**	ug/L	0.307	1	33	101561	0	KED
|	**Cu**	**65**	**25.291**	ug/L	0.051	0	20	51883	0	KED
|	**Zn**	**66**	**81.163**	ug/L	1.660	2	27	38985	2	KED
|	**Zn**	**67**	**76.462**	ug/L	3.309	4	1	5965	4	KED
|	**As**	**75**	**24.637**	ug/L	0.491	1	3	6130	1	KED
⌊	**Se**	**78**	**75.784**	ug/L	1.725	2	9	1717	1	KED
	Y	**89**		ug/L			217874	218179	0	Standard
	Kr	**83**		ug/L			50	63	21	Standard
⌈>	**In-1**	**115**		ug/L			5372	5381	0	KED
|	**Cd**	**111**	**25.257**	ug/L	0.538	2	1	6357	2	KED
⌊	**Cd**	**114**	**25.175**	ug/L	0.569	2	2	16341	1	KED
⌈>	**In**	**115**		ug/L			392470	398611	0	Standard
|	**Sb**	**121**	**-0.004**	ug/L	0.002	53	233	179	16	Standard
⌊	**Sb**	**123**	**-0.002**	ug/L	0.001	31	190	162	5	Standard
⌈>	**Tb**	**159**		ug/L			877191	885025	1	Standard
|	**Tl**	**205**	**25.468**	ug/L	0.689	2	296	1505847	0	Standard
⌊	**Pb**	**208**	**26.158**	ug/L	0.683	2	191	1981417	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0368-BLK2
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, December 27, 2022 18:16:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27825	41894	2	Standard
	Cl	**37**		ug/L			7666632	7536805	2	Standard
⌈>	**Sc**	**45**		ug/L			374444	374690	1	Standard
|	**Cr**	**52**	**0.024**	ug/L	0.024	98	14994	15387	3	Standard
|	**Cr**	**53**	**-0.010**	ug/L	0.010	98	383	364	6	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.001	83	882	862	2	Standard
⌈>	**Ge**	**72**		ug/L			23830	23342	1	KED
|	**Ni**	**60**	**0.004**	ug/L	0.002	39	6	12	17	KED
|	**Ni**	**62**	**0.009**	ug/L	0.005	56	2	4	24	KED
|	**Cu**	**63**	**0.018**	ug/L	0.002	10	33	102	8	KED
|	**Cu**	**65**	**0.014**	ug/L	0.002	17	20	47	10	KED
|	**Zn**	**66**	**1.509**	ug/L	0.082	5	27	743	4	KED
|	**Zn**	**67**	**1.499**	ug/L	0.311	20	1	117	19	KED
|	**As**	**75**	**0.004**	ug/L	0.006	148	3	4	33	KED
⌊	**Se**	**78**	**-0.006**	ug/L	0.027	480	9	9	7	KED
	Y	**89**		ug/L			217874	220501	2	Standard
	Kr	**83**		ug/L			50	44	6	Standard
⌈>	**In-1**	**115**		ug/L			5372	5352	1	KED
|	**Cd**	**111**	**0.004**	ug/L	0.004	110	1	2	43	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.002	55	2	0	245	KED
⌈>	**In**	**115**		ug/L			392470	388386	1	Standard
|	**Sb**	**121**	**-0.007**	ug/L	0.002	30	233	115	29	Standard
⌊	**Sb**	**123**	**-0.007**	ug/L	0.002	30	190	98	27	Standard
⌈>	**Tb**	**159**		ug/L			877191	880030	0	Standard
|	**Tl**	**205**	**-0.002**	ug/L	0.001	25	296	171	18	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	15	191	406	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0368-BS2
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, December 27, 2022 18:21:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27825	41980	0	Standard
	Cl	**37**		ug/L			7666632	7502074	1	Standard
>	**Sc**	**45**		ug/L			374444	373639	2	Standard
	Cr	**52**	**5.328**	ug/L	0.157	2	14994	99788	1	Standard
	Cr	**53**	**5.345**	ug/L	0.032	0	383	10463	2	Standard
	Mn	**55**	**6.796**	ug/L	0.179	2	882	160050	1	Standard
>	**Ge**	**72**		ug/L			23830	23479	1	KED
	Ni	**60**	**4.864**	ug/L	0.055	1	6	6649	2	KED
	Ni	**62**	**4.887**	ug/L	0.144	2	2	1114	3	KED
	Cu	**63**	**5.014**	ug/L	0.167	3	33	20271	2	KED
	Cu	**65**	**4.976**	ug/L	0.175	3	20	10176	2	KED
	Zn	**66**	**15.955**	ug/L	0.398	2	27	7650	1	KED
	Zn	**67**	**15.542**	ug/L	0.946	6	1	1208	6	KED
	As	**75**	**4.916**	ug/L	0.101	2	3	1220	0	KED
	Se	**78**	**15.212**	ug/L	0.785	5	9	350	4	KED
	Y	**89**		ug/L			217874	217285	3	Standard
	Kr	**83**		ug/L			50	41	38	Standard
>	**In-1**	**115**		ug/L			5372	5379	2	KED
	Cd	**111**	**4.992**	ug/L	0.105	2	1	1257	2	KED
	Cd	**114**	**5.041**	ug/L	0.215	4	2	3271	2	KED
>	**In**	**115**		ug/L			392470	394455	1	Standard
	Sb	**121**	**5.017**	ug/L	0.076	1	233	81753	2	Standard
	Sb	**123**	**5.066**	ug/L	0.075	1	190	64794	1	Standard
>	**Tb**	**159**		ug/L			877191	869543	0	Standard
	Tl	**205**	**5.229**	ug/L	0.098	1	296	304056	1	Standard
	Pb	**208**	**5.332**	ug/L	0.036	0	191	397137	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0108-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, December 27, 2022 18:30:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27825	45579	3	Standard
	Cl	**37**		ug/L			7666632	7752262	2	Standard
⌈>	**Sc**	**45**		ug/L			374444	365014	2	Standard
|	**Cr**	**52**	**18.911**	ug/L	0.684	3	14994	308813	4	Standard
|	**Cr**	**53**	**18.425**	ug/L	0.285	1	383	34324	2	Standard
⌊	**Mn**	**55**	**20.840**	ug/L	0.742	3	882	477569	1	Standard
⌈>	**Ge**	**72**		ug/L			23830	23650	0	KED
|	**Ni**	**60**	**2.322**	ug/L	0.106	4	6	3200	4	KED
|	**Ni**	**62**	**2.343**	ug/L	0.132	5	2	539	5	KED
|	**Cu**	**63**	**0.331**	ug/L	0.015	4	33	1379	4	KED
|	**Cu**	**65**	**0.337**	ug/L	0.006	1	20	713	1	KED
|	**Zn**	**66**	**13.031**	ug/L	0.378	2	27	6299	2	KED
|	**Zn**	**67**	**11.949**	ug/L	0.326	2	1	936	2	KED
|	**As**	**75**	**0.015**	ug/L	0.007	45	3	7	22	KED
⌊	**Se**	**78**	**-0.045**	ug/L	0.013	29	9	8	3	KED
	Y	**89**		ug/L			217874	216046	3	Standard
	Kr	**83**		ug/L			50	51	16	Standard
⌈>	**In-1**	**115**		ug/L			5372	5417	3	KED
|	**Cd**	**111**	**0.091**	ug/L	0.018	19	1	24	19	KED
⌊	**Cd**	**114**	**0.099**	ug/L	0.028	27	2	67	25	KED
⌈>	**In**	**115**		ug/L			392470	382046	3	Standard
|	**Sb**	**121**	**-0.004**	ug/L	0.002	46	233	168	16	Standard
⌊	**Sb**	**123**	**-0.003**	ug/L	0.002	60	190	146	12	Standard
⌈>	**Tb**	**159**		ug/L			877191	895670	2	Standard
|	**Tl**	**205**	**-0.000**	ug/L	0.001	208	296	286	10	Standard
⌊	**Pb**	**208**	**0.023**	ug/L	0.002	8	191	1987	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0341-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, December 27, 2022 18:35:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27825	31997	3	Standard
	Cl	**37**		ug/L			7666632	34987484	0	Standard
⌈>	**Sc**	**45**		ug/L			374444	361763	1	Standard
|	**Cr**	**52**	**0.703**	ug/L	0.020	2	14994	25326	2	Standard
|	**Cr**	**53**	**39.125**	ug/L	0.355	0	383	71821	1	Standard
⌊	**Mn**	**55**	**0.978**	ug/L	0.016	1	882	23027	2	Standard
⌈>	**Ge**	**72**		ug/L			23830	20651	1	KED
|	**Ni**	**60**	**0.074**	ug/L	0.004	5	6	95	6	KED
|	**Ni**	**62**	**0.138**	ug/L	0.014	10	2	29	9	KED
|	**Cu**	**63**	**0.330**	ug/L	0.016	4	33	1200	3	KED
|	**Cu**	**65**	**0.319**	ug/L	0.005	1	20	589	1	KED
|	**Zn**	**66**	**1.181**	ug/L	0.021	1	27	520	2	KED
|	**Zn**	**67**	**1.204**	ug/L	0.113	9	1	83	7	KED
|	**As**	**75**	**0.133**	ug/L	0.015	11	3	32	11	KED
⌊	**Se**	**78**	**0.275**	ug/L	0.122	44	9	13	15	KED
	Y	**89**		ug/L			217874	183704	0	Standard
	Kr	**83**		ug/L			50	341	11	Standard
⌈>	**In-1**	**115**		ug/L			5372	4613	5	KED
|	**Cd**	**111**	**0.022**	ug/L	0.004	18	1	6	9	KED
⌊	**Cd**	**114**	**0.012**	ug/L	0.016	131	2	8	101	KED
⌈>	**In**	**115**		ug/L			392470	293990	1	Standard
|	**Sb**	**121**	**0.013**	ug/L	0.001	10	233	328	3	Standard
⌊	**Sb**	**123**	**0.013**	ug/L	0.004	30	190	264	12	Standard
⌈>	**Tb**	**159**		ug/L			877191	755706	1	Standard
|	**Tl**	**205**	**0.004**	ug/L	0.000	3	296	445	0	Standard
⌊	**Pb**	**208**	**0.034**	ug/L	0.000	0	191	2369	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL5
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 18:41:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27825	31749	2	Standard
	Cl	**37**		ug/L			7666632	8014918	2	Standard
⎡>	**Sc**	**45**		ug/L			374444	374197	0	Standard
⎢	**Cr**	**52**	**0.124**	ug/L	0.017	13	14994	16967	1	Standard
⎢	**Cr**	**53**	**0.332**	ug/L	0.010	3	383	1010	2	Standard
⎣	**Mn**	**55**	**0.003**	ug/L	0.001	33	882	956	2	Standard
⎡>	**Ge**	**72**		ug/L			23830	24653	1	KED
⎢	**Ni**	**60**	**-0.001**	ug/L	0.001	137	6	6	17	KED
⎢	**Ni**	**62**	**0.034**	ug/L	0.004	11	2	10	10	KED
⎢	**Cu**	**63**	**0.005**	ug/L	0.000	8	33	53	3	KED
⎢	**Cu**	**65**	**-0.000**	ug/L	0.003	951	20	20	30	KED
⎢	**Zn**	**66**	**0.025**	ug/L	0.031	127	27	40	39	KED
⎢	**Zn**	**67**	**0.062**	ug/L	0.036	59	1	6	41	KED
⎢	**As**	**75**	**-0.001**	ug/L	0.007	1354	3	3	54	KED
⎣	**Se**	**78**	**0.011**	ug/L	0.035	318	9	10	6	KED
	Y	**89**		ug/L			217874	210237	1	Standard
	Kr	**83**		ug/L			50	59	9	Standard
⎡>	**In-1**	**115**		ug/L			5372	5603	0	KED
⎢	**Cd**	**111**	**0.001**	ug/L	0.006	670	1	1	86	KED
⎣	**Cd**	**114**	**-0.002**	ug/L	0.002	84	2	1	94	KED
⎡>	**In**	**115**		ug/L			392470	367481	3	Standard
⎢	**Sb**	**121**	**-0.009**	ug/L	0.002	20	233	79	32	Standard
⎣	**Sb**	**123**	**-0.009**	ug/L	0.001	9	190	70	11	Standard
⎡>	**Tb**	**159**		ug/L			877191	867580	2	Standard
⎢	**Tl**	**205**	**0.016**	ug/L	0.001	4	296	1234	3	Standard
⎣	**Pb**	**208**	**0.008**	ug/L	0.000	3	191	778	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0391-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, December 27, 2022 18:48:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27825	221948	2	Standard
	Cl	**37**		ug/L			7666632	7834799	4	Standard
⌈>	**Sc**	**45**		ug/L			374444	369659	3	Standard
|	**Cr**	**52**	**2.860**	ug/L	0.083	2	14994	59831	1	Standard
|	**Cr**	**53**	**2.466**	ug/L	0.057	2	383	4978	1	Standard
⌊	**Mn**	**55**	**8.760**	ug/L	0.363	4	882	203763	2	Standard
⌈>	**Ge**	**72**		ug/L			23830	21927	2	KED
|	**Ni**	**60**	**6.987**	ug/L	0.141	2	6	8913	1	KED
|	**Ni**	**62**	**6.901**	ug/L	0.366	5	2	1468	3	KED
|	**Cu**	**63**	**3.902**	ug/L	0.134	3	33	14732	0	KED
|	**Cu**	**65**	**3.862**	ug/L	0.091	2	20	7379	0	KED
|	**Zn**	**66**	**3.367**	ug/L	0.234	6	27	1525	3	KED
|	**Zn**	**67**	**3.791**	ug/L	0.408	10	1	276	8	KED
|	**As**	**75**	**0.084**	ug/L	0.011	13	3	22	12	KED
⌊	**Se**	**78**	**0.286**	ug/L	0.353	123	9	14	46	KED
	Y	**89**		ug/L			217874	211849	1	Standard
	Kr	**83**		ug/L			50	57	15	Standard
⌈>	**In-1**	**115**		ug/L			5372	5066	2	KED
|	**Cd**	**111**	**0.784**	ug/L	0.040	5	1	186	2	KED
⌊	**Cd**	**114**	**0.813**	ug/L	0.067	8	2	498	7	KED
⌈>	**In**	**115**		ug/L			392470	365178	1	Standard
|	**Sb**	**121**	**0.212**	ug/L	0.009	4	233	3409	5	Standard
⌊	**Sb**	**123**	**0.216**	ug/L	0.010	4	190	2728	6	Standard
⌈>	**Tb**	**159**		ug/L			877191	864658	0	Standard
|	**Tl**	**205**	**0.002**	ug/L	0.000	18	296	426	5	Standard
⌊	**Pb**	**208**	**0.031**	ug/L	0.000	0	191	2449	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0148-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 18:56:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27825	51690	1	Standard
	Cl	**37**		ug/L			7666632	13650589	2	Standard
⌈>	**Sc**	**45**		ug/L			374444	403319	2	Standard
|	**Cr**	**52**	**25.280**	ug/L	0.601	2	14994	450604	1	Standard
|	**Cr**	**53**	**37.647**	ug/L	0.604	1	383	77054	0	Standard
⌊	**Mn**	**55**	**6.431**	ug/L	0.196	3	882	163537	1	Standard
⌈>	**Ge**	**72**		ug/L			23830	22577	2	KED
|	**Ni**	**60**	**4.620**	ug/L	0.082	1	6	6071	0	KED
|	**Ni**	**62**	**4.743**	ug/L	0.144	3	2	1040	3	KED
|	**Cu**	**63**	**12.176**	ug/L	0.275	2	33	47291	0	KED
|	**Cu**	**65**	**12.311**	ug/L	0.168	1	20	24187	1	KED
|	**Zn**	**66**	**47.275**	ug/L	0.690	1	27	21747	0	KED
|	**Zn**	**67**	**46.462**	ug/L	3.100	6	1	3468	4	KED
|	**As**	**75**	**0.326**	ug/L	0.012	3	3	81	5	KED
⌊	**Se**	**78**	**0.120**	ug/L	0.095	78	9	11	18	KED
	Y	**89**		ug/L			217874	210531	1	Standard
	Kr	**83**		ug/L			50	83	18	Standard
⌈>	**In-1**	**115**		ug/L			5372	5477	3	KED
|	**Cd**	**111**	**0.180**	ug/L	0.023	12	1	47	14	KED
⌊	**Cd**	**114**	**0.215**	ug/L	0.038	17	2	144	19	KED
⌈>	**In**	**115**		ug/L			392470	350665	0	Standard
|	**Sb**	**121**	**1.189**	ug/L	0.020	1	233	17389	0	Standard
⌊	**Sb**	**123**	**1.146**	ug/L	0.030	2	190	13164	2	Standard
⌈>	**Tb**	**159**		ug/L			877191	856156	0	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	43	296	336	5	Standard
⌊	**Pb**	**208**	**0.320**	ug/L	0.001	0	191	23639	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL6
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 19:03:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27825	32107	1	Standard
	Cl	**37**		ug/L			7666632	8046515	1	Standard
⌈>	**Sc**	**45**		ug/L			374444	382959	1	Standard
|	**Cr**	**52**	**0.065**	ug/L	0.027	41	14994	16386	1	Standard
|	**Cr**	**53**	**0.124**	ug/L	0.020	15	383	632	5	Standard
⌊	**Mn**	**55**	**-0.003**	ug/L	0.001	24	882	820	1	Standard
⌈>	**Ge**	**72**		ug/L			23830	24166	0	KED
|	**Ni**	**60**	**0.005**	ug/L	0.002	29	6	14	15	KED
|	**Ni**	**62**	**0.003**	ug/L	0.017	664	2	3	124	KED
|	**Cu**	**63**	**0.003**	ug/L	0.001	29	33	46	8	KED
|	**Cu**	**65**	**0.000**	ug/L	0.001	107	20	21	5	KED
|	**Zn**	**66**	**-0.008**	ug/L	0.023	269	27	23	47	KED
|	**Zn**	**67**	**0.023**	ug/L	0.041	175	1	3	86	KED
|	**As**	**75**	**-0.001**	ug/L	0.004	256	3	3	28	KED
⌊	**Se**	**78**	**0.014**	ug/L	0.084	594	9	10	18	KED
	Y	**89**		ug/L			217874	210638	1	Standard
	Kr	**83**		ug/L			50	62	13	Standard
⌈>	**In-1**	**115**		ug/L			5372	5785	3	KED
|	**Cd**	**111**	**0.004**	ug/L	0.007	162	1	2	66	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	624	2	3	95	KED
⌈>	**In**	**115**		ug/L			392470	372302	2	Standard
|	**Sb**	**121**	**-0.010**	ug/L	0.000	3	233	60	12	Standard
⌊	**Sb**	**123**	**-0.011**	ug/L	0.000	2	190	42	7	Standard
⌈>	**Tb**	**159**		ug/L			877191	871532	1	Standard
|	**Tl**	**205**	**0.009**	ug/L	0.001	7	296	815	6	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	11	191	358	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV4
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 19:08:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27825	28386	2	Standard
	Cl	**37**		ug/L			7666632	7978429	1	Standard
⌈>	**Sc**	**45**		ug/L			374444	381033	1	Standard
|	**Cr**	**52**	**53.950**	ug/L	0.308	0	14994	891392	0	Standard
|	**Cr**	**53**	**53.983**	ug/L	0.706	1	383	104246	2	Standard
⌊	**Mn**	**55**	**54.767**	ug/L	0.311	0	882	1309385	1	Standard
⌈>	**Ge**	**72**		ug/L			23830	24050	1	KED
|	**Ni**	**60**	**47.567**	ug/L	0.930	1	6	66529	0	KED
|	**Ni**	**62**	**47.960**	ug/L	0.169	0	2	11185	1	KED
|	**Cu**	**63**	**47.870**	ug/L	0.252	0	33	198016	1	KED
|	**Cu**	**65**	**48.088**	ug/L	0.570	1	20	100587	1	KED
|	**Zn**	**66**	**49.051**	ug/L	0.812	1	27	24037	1	KED
|	**Zn**	**67**	**51.233**	ug/L	1.480	2	1	4076	1	KED
|	**As**	**75**	**50.106**	ug/L	1.054	2	3	12710	0	KED
⌊	**Se**	**78**	**49.220**	ug/L	0.354	0	9	1141	1	KED
	Y	**89**		ug/L			217874	212637	2	Standard
	Kr	**83**		ug/L			50	57	21	Standard
⌈>	**In-1**	**115**		ug/L			5372	5591	0	KED
|	**Cd**	**111**	**50.371**	ug/L	0.728	1	1	13169	0	KED
⌊	**Cd**	**114**	**49.083**	ug/L	0.788	1	2	33099	1	KED
⌈>	**In**	**115**		ug/L			392470	369797	2	Standard
|	**Sb**	**121**	**50.755**	ug/L	2.142	4	233	772890	1	Standard
⌊	**Sb**	**123**	**49.872**	ug/L	1.816	3	190	596146	1	Standard
⌈>	**Tb**	**159**		ug/L			877191	881118	2	Standard
|	**Tl**	**205**	**47.433**	ug/L	0.368	0	296	2792557	1	Standard
⌊	**Pb**	**208**	**48.560**	ug/L	0.720	1	191	3662578	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB4
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 19:15:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27825	25052	3	Standard
	Cl	**37**		ug/L			7666632	7816356	2	Standard
⌈>	**Sc**	**45**		ug/L			374444	374341	1	Standard
|	**Cr**	**52**	**0.033**	ug/L	0.015	45	14994	15521	1	Standard
|	**Cr**	**53**	**0.056**	ug/L	0.009	15	383	488	1	Standard
⌊	**Mn**	**55**	**0.004**	ug/L	0.003	72	882	974	5	Standard
⌈>	**Ge**	**72**		ug/L			23830	24525	1	KED
|	**Ni**	**60**	**0.001**	ug/L	0.003	412	6	8	53	KED
|	**Ni**	**62**	**0.016**	ug/L	0.017	106	2	6	62	KED
|	**Cu**	**63**	**0.002**	ug/L	0.003	121	33	43	25	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.000	2	20	15	0	KED
|	**Zn**	**66**	**-0.012**	ug/L	0.008	71	27	22	19	KED
|	**Zn**	**67**	**0.023**	ug/L	0.024	103	1	3	50	KED
|	**As**	**75**	**0.001**	ug/L	0.002	273	3	3	13	KED
⌊	**Se**	**78**	**-0.060**	ug/L	0.102	167	9	8	27	KED
	Y	**89**		ug/L			217874	205548	2	Standard
	Kr	**83**		ug/L			50	48	15	Standard
⌈>	**In-1**	**115**		ug/L			5372	5721	0	KED
|	**Cd**	**111**	**0.006**	ug/L	0.005	97	1	3	45	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.003	163	2	3	51	KED
⌈>	**In**	**115**		ug/L			392470	365040	4	Standard
|	**Sb**	**121**	**0.001**	ug/L	0.003	234	233	233	13	Standard
⌊	**Sb**	**123**	**-0.001**	ug/L	0.001	123	190	164	10	Standard
⌈>	**Tb**	**159**		ug/L			877191	860667	1	Standard
|	**Tl**	**205**	**0.007**	ug/L	0.001	8	296	708	3	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	10	191	250	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0616-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 19:21:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			27825	35773	1	Standard
Cl	37		ug/L			7666632	7760182	1	Standard
Sc	45		ug/L			374444	380408	1	Standard
Cr	52	0.081	ug/L	0.028	34	14994	16545	1	Standard
Cr	53	0.072	ug/L	0.014	19	383	528	6	Standard
Mn	55	0.254	ug/L	0.008	3	882	6964	1	Standard
Ge	72		ug/L			23830	23849	2	KED
Ni	60	0.022	ug/L	0.004	18	6	38	13	KED
Ni	62	0.027	ug/L	0.029	105	2	8	75	KED
Cu	63	0.024	ug/L	0.003	12	33	132	10	KED
Cu	65	0.029	ug/L	0.009	31	20	80	23	KED
Zn	66	0.658	ug/L	0.020	3	27	346	1	KED
Zn	67	0.627	ug/L	0.029	4	1	51	6	KED
As	75	0.001	ug/L	0.007	625	3	3	48	KED
Se	78	0.016	ug/L	0.093	590	9	10	18	KED
Y	89		ug/L			217874	203285	1	Standard
Kr	83		ug/L			50	44	17	Standard
In-1	115		ug/L			5372	5629	4	KED
Cd	111	0.010	ug/L	0.013	136	1	4	81	KED
Cd	114	-0.002	ug/L	0.003	160	2	1	138	KED
In	115		ug/L			392470	367912	0	Standard
Sb	121	-0.003	ug/L	0.001	21	233	177	4	Standard
Sb	123	-0.003	ug/L	0.002	74	190	142	18	Standard
Tb	159		ug/L			877191	862773	1	Standard
Tl	205	-0.002	ug/L	0.000	10	296	194	6	Standard
Pb	208	0.006	ug/L	0.001	14	191	606	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0616-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 19:26:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27825	37740	0	Standard
	Cl	37		ug/L			7666632	7873919	1	Standard
>	Sc	45		ug/L			374444	380899	1	Standard
	Cr	52	26.832	ug/L	0.224	0	14994	450840	0	Standard
	Cr	53	26.688	ug/L	0.187	0	383	51708	0	Standard
	Mn	55	27.174	ug/L	0.280	1	882	649874	0	Standard
>	Ge	72		ug/L			23830	23602	1	KED
	Ni	60	23.881	ug/L	0.495	2	6	32783	1	KED
	Ni	62	23.967	ug/L	0.605	2	2	5488	3	KED
	Cu	63	23.967	ug/L	0.454	1	33	97295	1	KED
	Cu	65	23.747	ug/L	0.390	1	20	48754	0	KED
	Zn	66	76.843	ug/L	1.758	2	27	36937	1	KED
	Zn	67	73.306	ug/L	1.210	1	1	5723	0	KED
	As	75	24.674	ug/L	0.521	2	3	6144	1	KED
	Se	78	78.235	ug/L	0.889	1	9	1774	1	KED
	Y	89		ug/L			217874	205536	1	Standard
	Kr	83		ug/L			50	61	20	Standard
>	In-1	115		ug/L			5372	5621	1	KED
	Cd	111	24.679	ug/L	0.523	2	1	6486	0	KED
	Cd	114	24.451	ug/L	0.853	3	2	16573	1	KED
>	In	115		ug/L			392470	358153	0	Standard
	Sb	121	25.294	ug/L	0.347	1	233	373429	1	Standard
	Sb	123	25.444	ug/L	0.507	1	190	294830	1	Standard
>	Tb	159		ug/L			877191	860529	1	Standard
	Tl	205	24.178	ug/L	0.571	2	296	1390313	1	Standard
	Pb	208	24.876	ug/L	0.396	1	191	1832608	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0619-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 19:31:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27825	36882	0	Standard
	Cl	37		ug/L			7666632	7732246	0	Standard
>	Sc	45		ug/L			374444	383305	2	Standard
	Cr	52	0.127	ug/L	0.033	26	14994	17410	0	Standard
	Cr	53	0.083	ug/L	0.011	13	383	551	3	Standard
	Mn	55	0.054	ug/L	0.004	8	882	2198	1	Standard
>	Ge	72		ug/L			23830	24178	1	KED
	Ni	60	0.003	ug/L	0.003	130	6	10	44	KED
	Ni	62	-0.003	ug/L	0.008	290	2	1	100	KED
	Cu	63	0.108	ug/L	0.005	4	33	481	5	KED
	Cu	65	0.106	ug/L	0.014	12	20	243	13	KED
	Zn	66	0.390	ug/L	0.031	7	27	219	6	KED
	Zn	67	0.428	ug/L	0.078	18	1	36	18	KED
	As	75	0.008	ug/L	0.005	62	3	5	22	KED
	Se	78	-0.023	ug/L	0.028	123	9	9	7	KED
	Y	89		ug/L			217874	209524	1	Standard
	Kr	83		ug/L			50	48	25	Standard
>	In-1	115		ug/L			5372	5593	1	KED
	Cd	111	0.005	ug/L	0.007	157	1	2	66	KED
	Cd	114	-0.001	ug/L	0.003	637	2	2	103	KED
>	In	115		ug/L			392470	358873	2	Standard
	Sb	121	-0.005	ug/L	0.001	11	233	140	4	Standard
	Sb	123	-0.005	ug/L	0.000	3	190	112	1	Standard
>	Tb	159		ug/L			877191	852795	0	Standard
	Tl	205	-0.002	ug/L	0.001	25	296	158	20	Standard
	Pb	208	0.013	ug/L	0.000	2	191	1149	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0619-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 19:35:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27825	39104	1	Standard
	Cl	37		ug/L			7666632	7670942	2	Standard
>	Sc	45		ug/L			374444	389158	3	Standard
	Cr	52	27.594	ug/L	0.734	2	14994	473028	1	Standard
	Cr	53	27.449	ug/L	1.106	4	383	54294	3	Standard
	Mn	55	28.417	ug/L	0.917	3	882	693878	1	Standard
>	Ge	72		ug/L			23830	24081	0	KED
	Ni	60	24.036	ug/L	0.284	1	6	33671	1	KED
	Ni	62	24.283	ug/L	0.898	3	2	5672	3	KED
	Cu	63	25.030	ug/L	0.624	2	33	103691	2	KED
	Cu	65	25.198	ug/L	0.240	0	20	52790	0	KED
	Zn	66	76.086	ug/L	0.540	0	27	37324	0	KED
	Zn	67	74.747	ug/L	0.863	1	1	5955	1	KED
	As	75	24.632	ug/L	0.176	0	3	6260	0	KED
	Se	78	74.355	ug/L	0.552	0	9	1721	0	KED
	Y	89		ug/L			217874	207021	1	Standard
	Kr	83		ug/L			50	54	23	Standard
>	In-1	115		ug/L			5372	5907	1	KED
	Cd	111	23.798	ug/L	0.262	1	1	6574	0	KED
	Cd	114	23.491	ug/L	0.253	1	2	16737	0	KED
>	In	115		ug/L			392470	378393	1	Standard
	Sb	121	-0.007	ug/L	0.002	22	233	121	21	Standard
	Sb	123	-0.009	ug/L	0.002	19	190	79	26	Standard
>	Tb	159		ug/L			877191	891756	2	Standard
	Tl	205	25.344	ug/L	0.654	2	296	1509910	0	Standard
	Pb	208	25.674	ug/L	0.609	2	191	1959720	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0439-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, December 27, 2022 19:43:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27825	61728	4	Standard
	Cl	**37**		ug/L			7666632	7724393	1	Standard
⌈>	**Sc**	**45**		ug/L			374444	364247	3	Standard
|	**Cr**	**52**	**16.418**	ug/L	0.230	1	14994	269452	3	Standard
|	**Cr**	**53**	**16.329**	ug/L	0.491	3	383	30382	0	Standard
⌊	**Mn**	**55**	**4.785**	ug/L	0.099	2	882	110126	2	Standard
⌈>	**Ge**	**72**		ug/L			23830	21805	1	KED
|	**Ni**	**60**	**0.516**	ug/L	0.005	0	6	660	2	KED
|	**Ni**	**62**	**0.610**	ug/L	0.076	12	2	131	13	KED
|	**Cu**	**63**	**5.223**	ug/L	0.169	3	33	19610	2	KED
|	**Cu**	**65**	**5.262**	ug/L	0.166	3	20	9993	1	KED
|	**Zn**	**66**	**2.117**	ug/L	0.054	2	27	964	3	KED
|	**Zn**	**67**	**2.215**	ug/L	0.361	16	1	161	14	KED
|	**As**	**75**	**0.147**	ug/L	0.013	8	3	37	9	KED
⌊	**Se**	**78**	**0.186**	ug/L	0.061	32	9	12	11	KED
	Y	**89**		ug/L			217874	212037	0	Standard
	Kr	**83**		ug/L			50	74	10	Standard
⌈>	**In-1**	**115**		ug/L			5372	4989	2	KED
|	**Cd**	**111**	**0.185**	ug/L	0.050	26	1	44	24	KED
⌊	**Cd**	**114**	**0.185**	ug/L	0.034	18	2	113	19	KED
⌈>	**In**	**115**		ug/L			392470	360137	1	Standard
|	**Sb**	**121**	**0.114**	ug/L	0.008	6	233	1913	6	Standard
⌊	**Sb**	**123**	**0.117**	ug/L	0.006	4	190	1540	5	Standard
⌈>	**Tb**	**159**		ug/L			877191	867036	1	Standard
|	**Tl**	**205**	**0.005**	ug/L	0.000	9	296	580	5	Standard
⌊	**Pb**	**208**	**0.021**	ug/L	0.001	2	191	1775	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0439-05
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, December 27, 2022 19:47:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27825	62874	3	Standard
	Cl	**37**		ug/L			7666632	7557099	2	Standard
⌈>	**Sc**	**45**		ug/L			374444	363239	3	Standard
|	**Cr**	**52**	**13.236**	ug/L	0.223	1	14994	219403	2	Standard
|	**Cr**	**53**	**13.165**	ug/L	0.092	0	383	24515	3	Standard
⌊	**Mn**	**55**	**4.129**	ug/L	0.042	1	882	94883	2	Standard
⌈>	**Ge**	**72**		ug/L			23830	21566	1	KED
|	**Ni**	**60**	**0.508**	ug/L	0.020	3	6	643	4	KED
|	**Ni**	**62**	**0.496**	ug/L	0.016	3	2	106	3	KED
|	**Cu**	**63**	**3.382**	ug/L	0.041	1	33	12574	2	KED
|	**Cu**	**65**	**3.442**	ug/L	0.017	0	20	6474	1	KED
|	**Zn**	**66**	**2.346**	ug/L	0.146	6	27	1054	6	KED
|	**Zn**	**67**	**2.379**	ug/L	0.059	2	1	171	3	KED
|	**As**	**75**	**0.131**	ug/L	0.007	5	3	33	3	KED
⌊	**Se**	**78**	**0.207**	ug/L	0.206	99	9	13	32	KED
	Y	**89**		ug/L			217874	214845	2	Standard
	Kr	**83**		ug/L			50	67	14	Standard
⌈>	**In-1**	**115**		ug/L			5372	4701	1	KED
|	**Cd**	**111**	**0.401**	ug/L	0.030	7	1	89	5	KED
⌊	**Cd**	**114**	**0.410**	ug/L	0.042	10	2	234	9	KED
⌈>	**In**	**115**		ug/L			392470	361318	0	Standard
|	**Sb**	**121**	**0.118**	ug/L	0.007	5	233	1965	4	Standard
⌊	**Sb**	**123**	**0.116**	ug/L	0.006	5	190	1534	4	Standard
⌈>	**Tb**	**159**		ug/L			877191	869107	1	Standard
|	**Tl**	**205**	**0.004**	ug/L	0.001	18	296	505	6	Standard
⌊	**Pb**	**208**	**0.018**	ug/L	0.001	6	191	1504	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0439-06
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, December 27, 2022 19:53:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27825	39573	4	Standard
	Cl	**37**		ug/L			7666632	7580327	3	Standard
⌈>	**Sc**	**45**		ug/L			374444	363930	1	Standard
|	**Cr**	**52**	**12.359**	ug/L	0.157	1	14994	206266	1	Standard
|	**Cr**	**53**	**12.267**	ug/L	0.184	1	383	22911	2	Standard
⌊	**Mn**	**55**	**4.768**	ug/L	0.025	0	882	109652	1	Standard
⌈>	**Ge**	**72**		ug/L			23830	21733	0	KED
|	**Ni**	**60**	**0.367**	ug/L	0.011	3	6	470	3	KED
|	**Ni**	**62**	**0.426**	ug/L	0.039	9	2	92	9	KED
|	**Cu**	**63**	**2.415**	ug/L	0.071	2	33	9056	2	KED
|	**Cu**	**65**	**2.416**	ug/L	0.075	3	20	4583	2	KED
|	**Zn**	**66**	**1.024**	ug/L	0.003	0	27	478	1	KED
|	**Zn**	**67**	**0.957**	ug/L	0.079	8	1	70	7	KED
|	**As**	**75**	**0.068**	ug/L	0.008	12	3	18	10	KED
⌊	**Se**	**78**	**0.011**	ug/L	0.109	1011	9	9	23	KED
	Y	**89**		ug/L			217874	213884	3	Standard
	Kr	**83**		ug/L			50	53	16	Standard
⌈>	**In-1**	**115**		ug/L			5372	4967	1	KED
|	**Cd**	**111**	**0.016**	ug/L	0.004	28	1	5	21	KED
⌊	**Cd**	**114**	**0.011**	ug/L	0.007	62	2	8	47	KED
⌈>	**In**	**115**		ug/L			392470	363298	0	Standard
|	**Sb**	**121**	**0.082**	ug/L	0.002	2	233	1436	1	Standard
⌊	**Sb**	**123**	**0.082**	ug/L	0.001	1	190	1136	1	Standard
⌈>	**Tb**	**159**		ug/L			877191	876924	0	Standard
|	**Tl**	**205**	**0.005**	ug/L	0.001	11	296	575	5	Standard
⌊	**Pb**	**208**	**0.008**	ug/L	0.000	2	191	803	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0439-07
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, December 27, 2022 19:59:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27825	41577	1	Standard
	Cl	**37**		ug/L			7666632	7593231	2	Standard
⌈>	**Sc**	**45**		ug/L			374444	366428	1	Standard
|	**Cr**	**52**	**10.580**	ug/L	0.153	1	14994	179881	0	Standard
|	**Cr**	**53**	**10.665**	ug/L	0.105	0	383	20102	1	Standard
⌊	**Mn**	**55**	**5.592**	ug/L	0.135	2	882	129373	4	Standard
⌈>	**Ge**	**72**		ug/L			23830	21665	1	KED
|	**Ni**	**60**	**0.574**	ug/L	0.029	4	6	730	5	KED
|	**Ni**	**62**	**0.584**	ug/L	0.014	2	2	125	3	KED
|	**Cu**	**63**	**4.341**	ug/L	0.049	1	33	16204	0	KED
|	**Cu**	**65**	**4.429**	ug/L	0.086	1	20	8363	1	KED
|	**Zn**	**66**	**2.530**	ug/L	0.086	3	27	1140	4	KED
|	**Zn**	**67**	**2.456**	ug/L	0.207	8	1	177	8	KED
|	**As**	**75**	**0.084**	ug/L	0.030	35	3	22	29	KED
⌊	**Se**	**78**	**0.114**	ug/L	0.015	13	9	11	3	KED
	Y	**89**		ug/L			217874	214011	1	Standard
	Kr	**83**		ug/L			50	58	3	Standard
⌈>	**In-1**	**115**		ug/L			5372	5016	0	KED
|	**Cd**	**111**	**0.015**	ug/L	0.002	14	1	5	10	KED
⌊	**Cd**	**114**	**0.009**	ug/L	0.005	50	2	7	36	KED
⌈>	**In**	**115**		ug/L			392470	357567	2	Standard
|	**Sb**	**121**	**0.129**	ug/L	0.008	6	233	2108	6	Standard
⌊	**Sb**	**123**	**0.122**	ug/L	0.006	4	190	1580	3	Standard
⌈>	**Tb**	**159**		ug/L			877191	880662	0	Standard
|	**Tl**	**205**	**0.005**	ug/L	0.000	3	296	614	2	Standard
⌊	**Pb**	**208**	**0.012**	ug/L	0.001	5	191	1110	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL7
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 20:05:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27825	31102	3	Standard
	Cl	**37**		ug/L			7666632	7735234	2	Standard
⌈>	**Sc**	**45**		ug/L			374444	373349	2	Standard
|	**Cr**	**52**	**0.055**	ug/L	0.020	36	14994	15813	0	Standard
|	**Cr**	**53**	**-0.032**	ug/L	0.009	28	383	321	7	Standard
⌊	**Mn**	**55**	**-0.006**	ug/L	0.000	8	882	748	3	Standard
⌈>	**Ge**	**72**		ug/L			23830	24155	2	KED
|	**Ni**	**60**	**0.003**	ug/L	0.001	41	6	11	16	KED
|	**Ni**	**62**	**0.029**	ug/L	0.015	52	2	9	40	KED
|	**Cu**	**63**	**0.001**	ug/L	0.000	32	33	38	5	KED
|	**Cu**	**65**	**0.000**	ug/L	0.004	1848	20	20	39	KED
|	**Zn**	**66**	**-0.005**	ug/L	0.012	271	27	25	22	KED
|	**Zn**	**67**	**0.088**	ug/L	0.030	34	1	8	24	KED
|	**As**	**75**	**-0.003**	ug/L	0.005	154	3	2	44	KED
⌊	**Se**	**78**	**-0.011**	ug/L	0.019	181	9	9	2	KED
	Y	**89**		ug/L			217874	215585	2	Standard
	Kr	**83**		ug/L			50	55	18	Standard
⌈>	**In-1**	**115**		ug/L			5372	5477	1	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.002	1401	1	1	34	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.002	55	2	0	272	KED
⌈>	**In**	**115**		ug/L			392470	384763	1	Standard
|	**Sb**	**121**	**-0.011**	ug/L	0.000	2	233	51	11	Standard
⌊	**Sb**	**123**	**-0.011**	ug/L	0.001	7	190	47	22	Standard
⌈>	**Tb**	**159**		ug/L			877191	883225	2	Standard
|	**Tl**	**205**	**-0.003**	ug/L	0.000	1	296	149	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	29	191	287	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL8
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 20:10:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27825	31210	3	Standard
	Cl	**37**		ug/L			7666632	7784137	2	Standard
⌈>	**Sc**	**45**		ug/L			374444	372874	1	Standard
|	**Cr**	**52**	**0.054**	ug/L	0.010	18	14994	15790	1	Standard
|	**Cr**	**53**	**-0.029**	ug/L	0.012	42	383	327	7	Standard
⌊	**Mn**	**55**	**-0.006**	ug/L	0.001	8	882	731	2	Standard
⌈>	**Ge**	**72**		ug/L			23830	23005	6	KED
|	**Ni**	**60**	**0.003**	ug/L	0.002	61	6	11	28	KED
|	**Ni**	**62**	**0.018**	ug/L	0.011	61	2	6	34	KED
|	**Cu**	**63**	**0.004**	ug/L	0.003	68	33	46	15	KED
|	**Cu**	**65**	**0.004**	ug/L	0.001	37	20	27	10	KED
|	**Zn**	**66**	**0.015**	ug/L	0.007	42	27	33	14	KED
|	**Zn**	**67**	**0.009**	ug/L	0.013	148	1	2	43	KED
|	**As**	**75**	**-0.005**	ug/L	0.002	37	3	2	24	KED
⌊	**Se**	**78**	**-0.089**	ug/L	0.165	185	9	7	44	KED
	Y	**89**		ug/L			217874	209909	5	Standard
	Kr	**83**		ug/L			50	59	8	Standard
⌈>	**In-1**	**115**		ug/L			5372	5569	2	KED
|	**Cd**	**111**	**0.003**	ug/L	0.004	120	1	2	43	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.003	86	2	4	45	KED
⌈>	**In**	**115**		ug/L			392470	377790	2	Standard
|	**Sb**	**121**	**-0.011**	ug/L	0.001	7	233	46	28	Standard
⌊	**Sb**	**123**	**-0.012**	ug/L	0.001	4	190	40	18	Standard
⌈>	**Tb**	**159**		ug/L			877191	897972	1	Standard
|	**Tl**	**205**	**-0.003**	ug/L	0.000	9	296	153	9	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	43	191	217	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV5
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 20:15:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27825	27604	1	Standard
	Cl	**37**		ug/L			7666632	7833358	3	Standard
⌈>	**Sc**	**45**		ug/L			374444	368125	1	Standard
|	**Cr**	**52**	**54.099**	ug/L	0.810	1	14994	863445	0	Standard
|	**Cr**	**53**	**53.812**	ug/L	1.626	3	383	100368	2	Standard
⌊	**Mn**	**55**	**54.361**	ug/L	1.506	2	882	1255317	1	Standard
⌈>	**Ge**	**72**		ug/L			23830	23788	1	KED
|	**Ni**	**60**	**47.493**	ug/L	1.125	2	6	65701	1	KED
|	**Ni**	**62**	**47.861**	ug/L	0.957	1	2	11039	1	KED
|	**Cu**	**63**	**47.437**	ug/L	0.532	1	33	194073	1	KED
|	**Cu**	**65**	**47.548**	ug/L	1.402	2	20	98356	1	KED
|	**Zn**	**66**	**47.871**	ug/L	0.873	1	27	23204	1	KED
|	**Zn**	**67**	**49.646**	ug/L	0.507	1	1	3907	1	KED
|	**As**	**75**	**49.618**	ug/L	0.121	0	3	12452	1	KED
⌊	**Se**	**78**	**48.708**	ug/L	1.781	3	9	1117	3	KED
	Y	**89**		ug/L			217874	208305	0	Standard
	Kr	**83**		ug/L			50	60	21	Standard
⌈>	**In-1**	**115**		ug/L			5372	5650	0	KED
|	**Cd**	**111**	**48.502**	ug/L	0.594	1	1	12817	1	KED
⌊	**Cd**	**114**	**48.287**	ug/L	0.887	1	2	32911	1	KED
⌈>	**In**	**115**		ug/L			392470	369187	1	Standard
|	**Sb**	**121**	**51.245**	ug/L	0.248	0	233	779661	1	Standard
⌊	**Sb**	**123**	**51.148**	ug/L	0.295	0	190	610724	0	Standard
⌈>	**Tb**	**159**		ug/L			877191	889555	2	Standard
|	**Tl**	**205**	**47.725**	ug/L	0.760	1	296	2836337	1	Standard
⌊	**Pb**	**208**	**49.915**	ug/L	1.528	3	191	3799409	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB5
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, December 27, 2022 20:22:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27825	24687	0	Standard
	Cl	**37**		ug/L			7666632	7659784	3	Standard
>	**Sc**	**45**		ug/L			374444	373700	2	Standard
	Cr	**52**	**0.002**	ug/L	0.029	1452	14994	14991	2	Standard
	Cr	**53**	**-0.025**	ug/L	0.007	30	383	335	5	Standard
	Mn	**55**	**-0.002**	ug/L	0.001	86	882	840	5	Standard
>	**Ge**	**72**		ug/L			23830	23973	1	KED
	Ni	**60**	**-0.001**	ug/L	0.001	145	6	5	33	KED
	Ni	**62**	**-0.000**	ug/L	0.005	5659	2	2	43	KED
	Cu	**63**	**0.002**	ug/L	0.001	43	33	42	9	KED
	Cu	**65**	**0.001**	ug/L	0.004	433	20	22	34	KED
	Zn	**66**	**0.011**	ug/L	0.009	76	27	33	13	KED
	Zn	**67**	**0.016**	ug/L	0.014	88	1	3	34	KED
	As	**75**	**0.002**	ug/L	0.006	308	3	4	33	KED
	Se	**78**	**-0.057**	ug/L	0.045	77	9	8	11	KED
	Y	**89**		ug/L			217874	208105	1	Standard
	Kr	**83**		ug/L			50	43	18	Standard
>	**In-1**	**115**		ug/L			5372	5825	3	KED
	Cd	**111**	**0.142**	ug/L	0.221	155	1	39	148	KED
	Cd	**114**	**0.145**	ug/L	0.202	139	2	102	135	KED
>	**In**	**115**		ug/L			392470	371813	2	Standard
	Sb	**121**	**-0.002**	ug/L	0.001	61	233	190	9	Standard
	Sb	**123**	**-0.001**	ug/L	0.001	123	190	169	5	Standard
>	**Tb**	**159**		ug/L			877191	864234	1	Standard
	Tl	**205**	**-0.000**	ug/L	0.000	121	296	281	4	Standard
	Pb	**208**	**0.004**	ug/L	0.000	5	191	482	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB5
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 20:27:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27825	24694	3	Standard
	Cl	**37**		ug/L			7666632	7587282	2	Standard
⎡>	**Sc**	**45**		ug/L			374444	356961	0	Standard
⎢	**Cr**	**52**	**0.028**	ug/L	0.030	109	14994	14713	2	Standard
⎢	**Cr**	**53**	**-0.013**	ug/L	0.011	84	383	341	5	Standard
⎣	**Mn**	**55**	**-0.002**	ug/L	0.002	84	882	800	4	Standard
⎡>	**Ge**	**72**		ug/L			23830	23676	1	KED
⎢	**Ni**	**60**	**0.000**	ug/L	0.002	12265	6	6	41	KED
⎢	**Ni**	**62**	**-0.003**	ug/L	0.000	3	2	1		KED
⎢	**Cu**	**63**	**0.004**	ug/L	0.001	22	33	47	8	KED
⎢	**Cu**	**65**	**-0.000**	ug/L	0.003	1298	20	19	29	KED
⎢	**Zn**	**66**	**-0.017**	ug/L	0.017	100	27	19	43	KED
⎢	**Zn**	**67**	**-0.000**	ug/L	0.024	197411	1	1	100	KED
⎢	**As**	**75**	**0.000**	ug/L	0.001	1195	3	3	7	KED
⎣	**Se**	**78**	**-0.029**	ug/L	0.148	512	9	9	36	KED
	Y	**89**		ug/L			217874	198278	5	Standard
	Kr	**83**		ug/L			50	51	13	Standard
⎡>	**In-1**	**115**		ug/L			5372	5524	2	KED
⎢	**Cd**	**111**	**0.006**	ug/L	0.002	33	1	3	17	KED
⎣	**Cd**	**114**	**0.003**	ug/L	0.004	148	2	4	65	KED
⎡>	**In**	**115**		ug/L			392470	355288	2	Standard
⎢	**Sb**	**121**	**-0.007**	ug/L	0.002	21	233	106	23	Standard
⎣	**Sb**	**123**	**-0.007**	ug/L	0.001	11	190	96	10	Standard
⎡>	**Tb**	**159**		ug/L			877191	846053	0	Standard
⎢	**Tl**	**205**	**-0.002**	ug/L	0.001	26	296	170	18	Standard
⎣	**Pb**	**208**	**0.003**	ug/L	0.000	14	191	418	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0368-BLK2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 20:33:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27825	39061	1	Standard
	Cl	**37**		ug/L			7666632	7667491	1	Standard
⌈>	**Sc**	**45**		ug/L			374444	373294	1	Standard
|	**Cr**	**52**	**0.078**	ug/L	0.030	38	14994	16185	2	Standard
|	**Cr**	**53**	**0.026**	ug/L	0.010	37	383	430	5	Standard
⌊	**Mn**	**55**	**0.070**	ug/L	0.002	2	882	2529	1	Standard
⌈>	**Ge**	**72**		ug/L			23830	23720	1	KED
|	**Ni**	**60**	**0.011**	ug/L	0.004	38	6	21	26	KED
|	**Ni**	**62**	**0.022**	ug/L	0.009	38	2	7	25	KED
|	**Cu**	**63**	**0.040**	ug/L	0.004	11	33	195	10	KED
|	**Cu**	**65**	**0.037**	ug/L	0.010	26	20	95	22	KED
|	**Zn**	**66**	**11.392**	ug/L	0.302	2	27	5528	3	KED
|	**Zn**	**67**	**10.431**	ug/L	0.444	4	1	820	4	KED
|	**As**	**75**	**-0.001**	ug/L	0.002	161	3	3	14	KED
⌊	**Se**	**78**	**0.107**	ug/L	0.029	27	9	12	4	KED
	Y	**89**		ug/L			217874	209229	1	Standard
	Kr	**83**		ug/L			50	41	14	Standard
⌈>	**In-1**	**115**		ug/L			5372	5596	1	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.006	398	1	1	114	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.004	1151	2	2	98	KED
⌈>	**In**	**115**		ug/L			392470	377064	1	Standard
|	**Sb**	**121**	**-0.007**	ug/L	0.001	21	233	121	18	Standard
⌊	**Sb**	**123**	**-0.006**	ug/L	0.001	21	190	109	14	Standard
⌈>	**Tb**	**159**		ug/L			877191	860305	1	Standard
|	**Tl**	**205**	**-0.002**	ug/L	0.001	30	296	156	27	Standard
⌊	**Pb**	**208**	**0.010**	ug/L	0.001	14	191	898	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0368-BS2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 20:38:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27825	38553	1	Standard
	Cl	**37**		ug/L			7666632	7621854	3	Standard
⌈>	**Sc**	**45**		ug/L			374444	369255	0	Standard
|	**Cr**	**52**	**26.558**	ug/L	0.277	1	14994	432753	0	Standard
|	**Cr**	**53**	**26.660**	ug/L	0.340	1	383	50080	2	Standard
⌊	**Mn**	**55**	**33.735**	ug/L	1.249	3	882	781811	2	Standard
⌈>	**Ge**	**72**		ug/L			23830	23484	0	KED
|	**Ni**	**60**	**24.078**	ug/L	0.558	2	6	32891	2	KED
|	**Ni**	**62**	**23.787**	ug/L	0.484	2	2	5418	1	KED
|	**Cu**	**63**	**24.064**	ug/L	0.294	1	33	97213	0	KED
|	**Cu**	**65**	**24.148**	ug/L	0.418	1	20	49334	1	KED
|	**Zn**	**66**	**78.416**	ug/L	1.057	1	27	37510	1	KED
|	**Zn**	**67**	**75.557**	ug/L	1.300	1	1	5870	1	KED
|	**As**	**75**	**24.938**	ug/L	0.256	1	3	6180	1	KED
⌊	**Se**	**78**	**78.094**	ug/L	0.982	1	9	1762	1	KED
	Y	**89**		ug/L			217874	201911	1	Standard
	Kr	**83**		ug/L			50	64	19	Standard
⌈>	**In-1**	**115**		ug/L			5372	5570	1	KED
|	**Cd**	**111**	**24.683**	ug/L	0.161	0	1	6430	1	KED
⌊	**Cd**	**114**	**24.758**	ug/L	0.306	1	2	16632	0	KED
⌈>	**In**	**115**		ug/L			392470	366760	0	Standard
|	**Sb**	**121**	**24.970**	ug/L	0.819	3	233	377462	2	Standard
⌊	**Sb**	**123**	**24.861**	ug/L	0.294	1	190	294995	0	Standard
⌈>	**Tb**	**159**		ug/L			877191	861912	0	Standard
|	**Tl**	**205**	**24.935**	ug/L	0.608	2	296	1436207	1	Standard
⌊	**Pb**	**208**	**25.600**	ug/L	0.197	0	191	1889170	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0004-03
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, December 27, 2022 20:47:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27825	38792	1	Standard
	Cl	**37**		ug/L			7666632	7697846	1	Standard
⌈>	**Sc**	**45**		ug/L			374444	387474	1	Standard
|	**Cr**	**52**	**0.779**	ug/L	0.022	2	14994	28383	0	Standard
|	**Cr**	**53**	**0.779**	ug/L	0.037	4	383	1921	5	Standard
⌊	**Mn**	**55**	**37.549**	ug/L	1.122	2	882	912966	2	Standard
⌈>	**Ge**	**72**		ug/L			23830	23540	0	KED
|	**Ni**	**60**	**0.549**	ug/L	0.036	6	6	758	6	KED
|	**Ni**	**62**	**0.576**	ug/L	0.040	7	2	133	7	KED
|	**Cu**	**63**	**0.178**	ug/L	0.005	2	33	754	2	KED
|	**Cu**	**65**	**0.175**	ug/L	0.012	6	20	379	6	KED
|	**Zn**	**66**	**0.855**	ug/L	0.017	2	27	436	1	KED
|	**Zn**	**67**	**1.321**	ug/L	0.161	12	1	104	11	KED
|	**As**	**75**	**0.043**	ug/L	0.007	16	3	14	12	KED
⌊	**Se**	**78**	**-0.058**	ug/L	0.055	94	9	8	14	KED
	Y	**89**		ug/L			217874	203004	2	Standard
	Kr	**83**		ug/L			50	48	29	Standard
⌈>	**In-1**	**115**		ug/L			5372	5529	1	KED
|	**Cd**	**111**	**0.018**	ug/L	0.009	47	1	6	34	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.005	111	2	5	61	KED
⌈>	**In**	**115**		ug/L			392470	350423	2	Standard
|	**Sb**	**121**	**-0.005**	ug/L	0.001	14	233	133	6	Standard
⌊	**Sb**	**123**	**-0.005**	ug/L	0.000	4	190	115	4	Standard
⌈>	**Tb**	**159**		ug/L			877191	866616	0	Standard
|	**Tl**	**205**	**-0.002**	ug/L	0.000	12	296	163	10	Standard
⌊	**Pb**	**208**	**0.033**	ug/L	0.001	2	191	2668	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0004-05
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, December 27, 2022 20:51:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27825	40379	1	Standard
	Cl	**37**		ug/L			7666632	7562334	2	Standard
⌈>	**Sc**	**45**		ug/L			374444	367111	6	Standard
|	**Cr**	**52**	**0.270**	ug/L	0.055	20	14994	18896	2	Standard
|	**Cr**	**53**	**0.232**	ug/L	0.025	10	383	802	1	Standard
⌊	**Mn**	**55**	**10.807**	ug/L	0.582	5	882	249047	1	Standard
⌈>	**Ge**	**72**		ug/L			23830	23419	1	KED
|	**Ni**	**60**	**0.288**	ug/L	0.007	2	6	398	2	KED
|	**Ni**	**62**	**0.280**	ug/L	0.038	13	2	66	13	KED
|	**Cu**	**63**	**0.060**	ug/L	0.004	6	33	273	6	KED
|	**Cu**	**65**	**0.052**	ug/L	0.007	12	20	125	11	KED
|	**Zn**	**66**	**0.588**	ug/L	0.027	4	27	307	5	KED
|	**Zn**	**67**	**0.762**	ug/L	0.123	16	1	60	16	KED
|	**As**	**75**	**0.003**	ug/L	0.002	75	3	4	11	KED
⌊	**Se**	**78**	**0.177**	ug/L	0.070	39	9	13	12	KED
	Y	**89**		ug/L			217874	198882	9	Standard
	Kr	**83**		ug/L			50	49	7	Standard
⌈>	**In-1**	**115**		ug/L			5372	5535	2	KED
|	**Cd**	**111**	**0.006**	ug/L	0.002	31	1	3	17	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	394	2	3	75	KED
⌈>	**In**	**115**		ug/L			392470	349672	7	Standard
|	**Sb**	**121**	**-0.008**	ug/L	0.002	23	233	96	29	Standard
⌊	**Sb**	**123**	**-0.008**	ug/L	0.003	32	190	77	39	Standard
⌈>	**Tb**	**159**		ug/L			877191	831526	5	Standard
|	**Tl**	**205**	**-0.002**	ug/L	0.002	94	296	177	59	Standard
⌊	**Pb**	**208**	**0.023**	ug/L	0.001	2	191	1811	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0004-07
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, December 27, 2022 20:56:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27825	39545	3	Standard
	Cl	37		ug/L			7666632	7660035	2	Standard
⌈>	Sc	45		ug/L			374444	392473	1	Standard
|	Cr	52	0.022	ug/L	0.008	37	14994	16088	1	Standard
|	Cr	53	0.032	ug/L	0.005	15	383	464	2	Standard
⌊	Mn	55	21.251	ug/L	0.315	1	882	523931	2	Standard
⌈>	Ge	72		ug/L			23830	23570	0	KED
|	Ni	60	0.091	ug/L	0.018	19	6	132	18	KED
|	Ni	62	0.086	ug/L	0.005	6	2	22	4	KED
|	Cu	63	0.046	ug/L	0.009	19	33	220	16	KED
|	Cu	65	0.048	ug/L	0.007	14	20	119	11	KED
|	Zn	66	0.952	ug/L	0.081	8	27	483	8	KED
|	Zn	67	1.540	ug/L	0.185	11	1	121	11	KED
|	As	75	0.037	ug/L	0.003	7	3	12	5	KED
⌊	Se	78	-0.002	ug/L	0.197	9339	9	9	45	KED
	Y	89		ug/L			217874	200939	2	Standard
	Kr	83		ug/L			50	45	19	Standard
⌈>	In-1	115		ug/L			5372	5603	2	KED
|	Cd	111	0.014	ug/L	0.008	55	1	5	36	KED
⌊	Cd	114	0.005	ug/L	0.005	105	2	5	57	KED
⌈>	In	115		ug/L			392470	355572	1	Standard
|	Sb	121	-0.011	ug/L	0.000	4	233	57	12	Standard
⌊	Sb	123	-0.010	ug/L	0.001	5	190	54	10	Standard
⌈>	Tb	159		ug/L			877191	870432	2	Standard
|	Tl	205	-0.003	ug/L	0.000	2	296	114	5	Standard
⌊	Pb	208	0.017	ug/L	0.000	0	191	1478	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0005-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, December 27, 2022 21:01:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27825	38972	4	Standard
	Cl	37		ug/L			7666632	7627750	1	Standard
>	Sc	45		ug/L			374444	382360	0	Standard
	Cr	52	0.541	ug/L	0.034	6	14994	24122	2	Standard
	Cr	53	0.549	ug/L	0.006	1	383	1451	0	Standard
	Mn	55	0.036	ug/L	0.003	8	882	1763	4	Standard
>	Ge	72		ug/L			23830	23559	1	KED
	Ni	60	0.064	ug/L	0.008	12	6	93	11	KED
	Ni	62	0.047	ug/L	0.015	31	2	13	24	KED
	Cu	63	0.052	ug/L	0.006	12	33	245	11	KED
	Cu	65	0.058	ug/L	0.004	6	20	138	5	KED
	Zn	66	0.460	ug/L	0.056	12	27	247	9	KED
	Zn	67	0.604	ug/L	0.142	23	1	48	22	KED
	As	75	0.210	ug/L	0.038	17	3	55	15	KED
	Se	78	0.145	ug/L	0.159	110	9	13	26	KED
	Y	89		ug/L			217874	201785	1	Standard
	Kr	83		ug/L			50	48	5	Standard
>	In-1	115		ug/L			5372	5534	4	KED
	Cd	111	0.005	ug/L	0.004	83	1	2	33	KED
	Cd	114	0.001	ug/L	0.002	189	2	3	36	KED
>	In	115		ug/L			392470	355698	1	Standard
	Sb	121	-0.003	ug/L	0.001	36	233	161	10	Standard
	Sb	123	-0.005	ug/L	0.001	26	190	112	12	Standard
>	Tb	159		ug/L			877191	860310	1	Standard
	Tl	205	-0.003	ug/L	0.000	4	296	136	6	Standard
	Pb	208	0.020	ug/L	0.001	4	191	1636	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0005-03
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, December 27, 2022 21:06:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27825	38119	1	Standard
	Cl	37		ug/L			7666632	7691064	1	Standard
>	Sc	45		ug/L			374444	384709	0	Standard
	Cr	52	2.740	ug/L	0.058	2	14994	60328	1	Standard
	Cr	53	2.716	ug/L	0.083	3	383	5668	1	Standard
	Mn	55	0.162	ug/L	0.004	2	882	4812	2	Standard
>	Ge	72		ug/L			23830	23943	1	KED
	Ni	60	1.750	ug/L	0.048	2	6	2444	3	KED
	Ni	62	1.747	ug/L	0.181	10	2	407	8	KED
	Cu	63	0.218	ug/L	0.004	1	33	930	2	KED
	Cu	65	0.224	ug/L	0.014	6	20	487	4	KED
	Zn	66	0.710	ug/L	0.014	1	27	373	2	KED
	Zn	67	0.755	ug/L	0.180	23	1	61	21	KED
	As	75	0.292	ug/L	0.024	8	3	77	7	KED
	Se	78	0.219	ug/L	0.158	71	9	14	24	KED
	Y	89		ug/L			217874	206850	0	Standard
	Kr	83		ug/L			50	49	23	Standard
>	In-1	115		ug/L			5372	5599	2	KED
	Cd	111	0.006	ug/L	0.005	91	1	3	45	KED
	Cd	114	-0.000	ug/L	0.003	984	2	2	98	KED
>	In	115		ug/L			392470	360925	1	Standard
	Sb	121	0.007	ug/L	0.001	20	233	321	7	Standard
	Sb	123	0.007	ug/L	0.002	22	190	258	6	Standard
>	Tb	159		ug/L			877191	875150	1	Standard
	Tl	205	-0.003	ug/L	0.000	1	296	125	1	Standard
	Pb	208	0.033	ug/L	0.001	2	191	2644	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0005-05
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, December 27, 2022 21:11:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27825	38276	1	Standard
	Cl	**37**		ug/L			7666632	7669594	1	Standard
⌈>	**Sc**	**45**		ug/L			374444	377069	0	Standard
|	**Cr**	**52**	**0.521**	ug/L	0.021	4	14994	23465	1	Standard
|	**Cr**	**53**	**0.510**	ug/L	0.014	2	383	1356	1	Standard
⌊	**Mn**	**55**	**4.031**	ug/L	0.030	0	882	96203	1	Standard
⌈>	**Ge**	**72**		ug/L			23830	23885	0	KED
|	**Ni**	**60**	**0.572**	ug/L	0.010	1	6	801	1	KED
|	**Ni**	**62**	**0.535**	ug/L	0.058	10	2	126	10	KED
|	**Cu**	**63**	**0.085**	ug/L	0.005	6	33	380	6	KED
|	**Cu**	**65**	**0.090**	ug/L	0.008	8	20	208	8	KED
|	**Zn**	**66**	**0.561**	ug/L	0.026	4	27	300	3	KED
|	**Zn**	**67**	**0.996**	ug/L	0.137	13	1	80	13	KED
|	**As**	**75**	**0.074**	ug/L	0.010	13	3	22	11	KED
⌊	**Se**	**78**	**-0.002**	ug/L	0.078	4261	9	9	17	KED
	Y	**89**		ug/L			217874	201906	3	Standard
	Kr	**83**		ug/L			50	51	27	Standard
⌈>	**In-1**	**115**		ug/L			5372	5602	0	KED
|	**Cd**	**111**	**0.008**	ug/L	0.004	43	1	3	25	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.002	47	2	4	23	KED
⌈>	**In**	**115**		ug/L			392470	357483	0	Standard
|	**Sb**	**121**	**-0.011**	ug/L	0.001	4	233	57	13	Standard
⌊	**Sb**	**123**	**-0.011**	ug/L	0.000	2	190	44	6	Standard
⌈>	**Tb**	**159**		ug/L			877191	866032	0	Standard
|	**Tl**	**205**	**-0.003**	ug/L	0.000	2	296	135	2	Standard
⌊	**Pb**	**208**	**0.021**	ug/L	0.000	1	191	1765	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0005-07
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, December 27, 2022 21:16:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27825	37902	3	Standard
	Cl	37		ug/L			7666632	7674208	2	Standard
⌈>	Sc	45		ug/L			374444	357651	2	Standard
|	Cr	52	0.547	ug/L	0.048	8	14994	22657	2	Standard
|	Cr	53	0.517	ug/L	0.007	1	383	1299	2	Standard
⌊	Mn	55	0.038	ug/L	0.003	8	882	1691	1	Standard
⌈>	Ge	72		ug/L			23830	23555	2	KED
|	Ni	60	0.068	ug/L	0.014	20	6	100	15	KED
|	Ni	62	0.053	ug/L	0.054	101	2	14	83	KED
|	Cu	63	0.045	ug/L	0.007	15	33	214	11	KED
|	Cu	65	0.045	ug/L	0.009	19	20	113	14	KED
|	Zn	66	0.465	ug/L	0.029	6	27	250	8	KED
|	Zn	67	0.634	ug/L	0.113	17	1	51	19	KED
|	As	75	0.319	ug/L	0.016	4	3	82	7	KED
⌊	Se	78	0.140	ug/L	0.165	117	9	12	26	KED
	Y	89		ug/L			217874	197540	3	Standard
	Kr	83		ug/L			50	57	38	Standard
⌈>	In-1	115		ug/L			5372	5495	1	KED
|	Cd	111	0.001	ug/L	0.006	590	1	1	86	KED
⌊	Cd	114	0.001	ug/L	0.002	212	2	2	40	KED
⌈>	In	115		ug/L			392470	350954	2	Standard
|	Sb	121	0.043	ug/L	0.005	10	233	833	8	Standard
⌊	Sb	123	0.042	ug/L	0.002	5	190	645	2	Standard
⌈>	Tb	159		ug/L			877191	850006	1	Standard
|	Tl	205	-0.003	ug/L	0.000	11	296	139	13	Standard
⌊	Pb	208	0.017	ug/L	0.001	3	191	1417	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL9
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 21:20:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27825	29070	3	Standard
	Cl	**37**		ug/L			7666632	7481424	2	Standard
⌈>	**Sc**	**45**		ug/L			374444	354941	1	Standard
|	**Cr**	**52**	**0.009**	ug/L	0.021	250	14994	14339	0	Standard
|	**Cr**	**53**	**-0.024**	ug/L	0.010	43	383	321	7	Standard
⌊	**Mn**	**55**	**-0.002**	ug/L	0.002	77	882	787	4	Standard
⌈>	**Ge**	**72**		ug/L			23830	23167	0	KED
|	**Ni**	**60**	**0.006**	ug/L	0.001	21	6	15	12	KED
|	**Ni**	**62**	**0.020**	ug/L	0.013	65	2	6	41	KED
|	**Cu**	**63**	**0.001**	ug/L	0.002	164	33	38	26	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.003	439	20	18	31	KED
|	**Zn**	**66**	**-0.016**	ug/L	0.004	24	27	19	10	KED
|	**Zn**	**67**	**0.059**	ug/L	0.039	65	1	6	45	KED
|	**As**	**75**	**-0.007**	ug/L	0.006	88	3	1	75	KED
⌊	**Se**	**78**	**0.024**	ug/L	0.170	697	9	10	36	KED
	Y	**89**		ug/L			217874	197308	1	Standard
	Kr	**83**		ug/L			50	49	23	Standard
⌈>	**In-1**	**115**		ug/L			5372	5401	0	KED
|	**Cd**	**111**	**0.019**	ug/L	0.004	22	1	6	17	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.004	93	2	4	47	KED
⌈>	**In**	**115**		ug/L			392470	345416	4	Standard
|	**Sb**	**121**	**-0.012**	ug/L	0.000	2	233	40	12	Standard
⌊	**Sb**	**123**	**-0.012**	ug/L	0.000	2	190	35	8	Standard
⌈>	**Tb**	**159**		ug/L			877191	835205	0	Standard
|	**Tl**	**205**	**-0.003**	ug/L	0.000	1	296	95	3	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	71	191	203	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV6
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 21:25:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27825	26585	1	Standard
	Cl	37		ug/L			7666632	7876643	2	Standard
>	Sc	45		ug/L			374444	349592	0	Standard
	Cr	52	54.544	ug/L	1.291	2	14994	826676	1	Standard
	Cr	53	54.796	ug/L	0.639	1	383	97066	1	Standard
	Mn	55	55.895	ug/L	1.041	1	882	1226133	2	Standard
>	Ge	72		ug/L			23830	23258	2	KED
	Ni	60	46.708	ug/L	1.694	3	6	63159	2	KED
	Ni	62	45.948	ug/L	1.018	2	2	10359	0	KED
	Cu	63	45.924	ug/L	0.839	1	33	183663	1	KED
	Cu	65	46.330	ug/L	0.634	1	20	93720	2	KED
	Zn	66	47.796	ug/L	1.013	2	27	22647	0	KED
	Zn	67	48.239	ug/L	2.929	6	1	3710	4	KED
	As	75	49.862	ug/L	0.774	1	3	12231	0	KED
	Se	78	48.602	ug/L	2.597	5	9	1089	3	KED
	Y	89		ug/L			217874	193851	1	Standard
	Kr	83		ug/L			50	45	21	Standard
>	In-1	115		ug/L			5372	5477	1	KED
	Cd	111	49.031	ug/L	0.580	1	1	12557	1	KED
	Cd	114	48.877	ug/L	0.588	1	2	32287	1	KED
>	In	115		ug/L			392470	333096	0	Standard
	Sb	121	52.591	ug/L	0.982	1	233	721829	1	Standard
	Sb	123	52.051	ug/L	0.578	1	190	560766	1	Standard
>	Tb	159		ug/L			877191	838189	1	Standard
	Tl	205	46.450	ug/L	0.625	1	296	2601930	2	Standard
	Pb	208	49.299	ug/L	0.767	1	191	3537478	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB6
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 21:33:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27825	23198	1	Standard
	Cl	**37**		ug/L			7666632	7631412	1	Standard
⌈>	**Sc**	**45**		ug/L			374444	359304	3	Standard
|	**Cr**	**52**	**-0.008**	ug/L	0.027	322	14994	14253	1	Standard
|	**Cr**	**53**	**-0.037**	ug/L	0.010	27	383	300	4	Standard
⌊	**Mn**	**55**	**0.005**	ug/L	0.003	51	882	968	3	Standard
⌈>	**Ge**	**72**		ug/L			23830	24156	2	KED
|	**Ni**	**60**	**0.002**	ug/L	0.002	88	6	10	28	KED
|	**Ni**	**62**	**0.003**	ug/L	0.024	854	2	3	173	KED
|	**Cu**	**63**	**0.004**	ug/L	0.002	35	33	52	12	KED
|	**Cu**	**65**	**0.002**	ug/L	0.004	187	20	25	36	KED
|	**Zn**	**66**	**0.044**	ug/L	0.022	48	27	49	23	KED
|	**Zn**	**67**	**0.015**	ug/L	0.026	173	1	3	69	KED
|	**As**	**75**	**-0.001**	ug/L	0.003	353	3	3	20	KED
⌊	**Se**	**78**	**0.034**	ug/L	0.080	232	9	10	19	KED
	Y	**89**		ug/L			217874	199493	0	Standard
	Kr	**83**		ug/L			50	54	10	Standard
⌈>	**In-1**	**115**		ug/L			5372	5777	3	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.008	2726	1	1	124	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.003	487	2	3	73	KED
⌈>	**In**	**115**		ug/L			392470	345564	1	Standard
|	**Sb**	**121**	**-0.001**	ug/L	0.002	134	233	186	12	Standard
⌊	**Sb**	**123**	**-0.002**	ug/L	0.000	19	190	142	4	Standard
⌈>	**Tb**	**159**		ug/L			877191	848802	0	Standard
|	**Tl**	**205**	**-0.001**	ug/L	0.000	60	296	254	6	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	4	191	445	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0495-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, December 27, 2022 21:37:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27825	34449	0	Standard
	Cl	37		ug/L			7666632	7621179	1	Standard
>	Sc	45		ug/L			374444	364920	0	Standard
	Cr	52	0.066	ug/L	0.011	16	14994	15644	0	Standard
	Cr	53	-0.021	ug/L	0.004	19	383	334	1	Standard
	Mn	55	0.011	ug/L	0.001	6	882	1110	1	Standard
>	Ge	72		ug/L			23830	23821	0	KED
	Ni	60	0.050	ug/L	0.016	31	6	76	28	KED
	Ni	62	0.055	ug/L	0.014	25	2	15	21	KED
	Cu	63	0.010	ug/L	0.003	33	33	73	18	KED
	Cu	65	0.004	ug/L	0.004	88	20	29	27	KED
	Zn	66	0.211	ug/L	0.029	13	27	129	11	KED
	Zn	67	0.209	ug/L	0.153	73	1	18	65	KED
	As	75	-0.003	ug/L	0.004	119	3	2	33	KED
	Se	78	-0.013	ug/L	0.045	357	9	9	10	KED
	Y	89		ug/L			217874	203149	4	Standard
	Kr	83		ug/L			50	57	10	Standard
>	In-1	115		ug/L			5372	5541	4	KED
	Cd	111	0.004	ug/L	0.002	68	1	2	21	KED
	Cd	114	0.004	ug/L	0.005	121	2	4	59	KED
>	In	115		ug/L			392470	361579	4	Standard
	Sb	121	-0.006	ug/L	0.000	5	233	128	4	Standard
	Sb	123	-0.007	ug/L	0.001	8	190	97	9	Standard
>	Tb	159		ug/L			877191	865913	2	Standard
	Tl	205	-0.003	ug/L	0.000	5	296	139	4	Standard
	Pb	208	0.004	ug/L	0.000	6	191	497	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0495-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, December 27, 2022 21:42:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27825	32834	0	Standard
	Cl	37		ug/L			7666632	7659453	1	Standard
>	Sc	45		ug/L			374444	365851	2	Standard
	Cr	52	29.376	ug/L	0.055	0	14994	472719	2	Standard
	Cr	53	28.780	ug/L	0.551	1	383	53528	2	Standard
	Mn	55	30.499	ug/L	0.935	3	882	700253	1	Standard
>	Ge	72		ug/L			23830	23746	1	KED
	Ni	60	24.317	ug/L	0.292	1	6	33587	1	KED
	Ni	62	24.790	ug/L	1.126	4	2	5707	2	KED
	Cu	63	24.432	ug/L	0.503	2	33	99798	2	KED
	Cu	65	25.153	ug/L	0.432	1	20	51953	0	KED
	Zn	66	75.999	ug/L	1.572	2	27	36754	0	KED
	Zn	67	76.268	ug/L	1.536	2	1	5991	2	KED
	As	75	25.080	ug/L	0.228	0	3	6285	2	KED
	Se	78	76.429	ug/L	0.580	0	9	1744	1	KED
	Y	89		ug/L			217874	202076	2	Standard
	Kr	83		ug/L			50	62	15	Standard
>	In-1	115		ug/L			5372	5629	2	KED
	Cd	111	24.548	ug/L	0.311	1	1	6461	1	KED
	Cd	114	24.614	ug/L	0.701	2	2	16707	1	KED
>	In	115		ug/L			392470	357683	3	Standard
	Sb	121	-0.009	ug/L	0.001	11	233	79	18	Standard
	Sb	123	-0.010	ug/L	0.002	19	190	63	30	Standard
>	Tb	159		ug/L			877191	854608	1	Standard
	Tl	205	25.947	ug/L	0.310	1	296	1482035	2	Standard
	Pb	208	26.753	ug/L	0.480	1	191	1957275	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0083-02
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, December 27, 2022 21:47:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27825	37067	2	Standard
	Cl	37		ug/L			7666632	7647132	1	Standard
>	Sc	45		ug/L			374444	365875	0	Standard
	Cr	52	0.115	ug/L	0.021	17	14994	16446	1	Standard
	Cr	53	0.114	ug/L	0.006	4	383	585	2	Standard
	Mn	55	2.157	ug/L	0.013	0	882	50353	0	Standard
>	Ge	72		ug/L			23830	23852	0	KED
	Ni	60	0.076	ug/L	0.010	13	6	113	12	KED
	Ni	62	0.058	ug/L	0.037	64	2	15	54	KED
	Cu	63	0.268	ug/L	0.018	6	33	1132	6	KED
	Cu	65	0.246	ug/L	0.018	7	20	530	6	KED
	Zn	66	0.952	ug/L	0.072	7	27	489	7	KED
	Zn	67	1.023	ug/L	0.180	17	1	82	16	KED
	As	75	0.023	ug/L	0.006	26	3	9	15	KED
	Se	78	0.102	ug/L	0.076	74	9	12	14	KED
	Y	89		ug/L			217874	201977	0	Standard
	Kr	83		ug/L			50	53	25	Standard
>	In-1	115		ug/L			5372	5584	0	KED
	Cd	111	0.011	ug/L	0.002	18	1	4	12	KED
	Cd	114	0.010	ug/L	0.003	25	2	9	19	KED
>	In	115		ug/L			392470	353269	1	Standard
	Sb	121	-0.001	ug/L	0.001	122	233	196	10	Standard
	Sb	123	-0.002	ug/L	0.001	39	190	149	5	Standard
>	Tb	159		ug/L			877191	867036	0	Standard
	Tl	205	0.001	ug/L	0.000	39	296	341	6	Standard
	Pb	208	0.013	ug/L	0.000	0	191	1169	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0083-03
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, December 27, 2022 21:52:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27825	37041	1	Standard
	Cl	37		ug/L			7666632	7737072	1	Standard
>	Sc	45		ug/L			374444	366398	0	Standard
	Cr	52	0.104	ug/L	0.027	25	14994	16301	1	Standard
	Cr	53	0.144	ug/L	0.022	15	383	641	5	Standard
	Mn	55	11.484	ug/L	0.247	2	882	264682	2	Standard
>	Ge	72		ug/L			23830	23574	0	KED
	Ni	60	0.113	ug/L	0.021	18	6	161	17	KED
	Ni	62	0.134	ug/L	0.030	22	2	33	20	KED
	Cu	63	0.496	ug/L	0.022	4	33	2042	4	KED
	Cu	65	0.519	ug/L	0.025	4	20	1085	4	KED
	Zn	66	2.188	ug/L	0.140	6	27	1076	5	KED
	Zn	67	2.297	ug/L	0.280	12	1	180	11	KED
	As	75	0.031	ug/L	0.002	6	3	11	4	KED
	Se	78	0.083	ug/L	0.112	135	9	11	22	KED
	Y	89		ug/L			217874	202565	4	Standard
	Kr	83		ug/L			50	52	11	Standard
>	In-1	115		ug/L			5372	5653	2	KED
	Cd	111	0.004	ug/L	0.004	80	1	2	33	KED
	Cd	114	0.001	ug/L	0.004	538	2	3	98	KED
>	In	115		ug/L			392470	353631	2	Standard
	Sb	121	0.003	ug/L	0.001	50	233	252	9	Standard
	Sb	123	0.004	ug/L	0.001	20	190	216	6	Standard
>	Tb	159		ug/L			877191	859389	0	Standard
	Tl	205	-0.001	ug/L	0.000	57	296	260	6	Standard
	Pb	208	0.020	ug/L	0.000	0	191	1643	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0083-04
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, December 27, 2022 21:57:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27825	37729	1	Standard
	Cl	37		ug/L			7666632	7827144	1	Standard
>	Sc	45		ug/L			374444	381297	1	Standard
	Cr	52	0.104	ug/L	0.013	12	14994	16958	1	Standard
	Cr	53	0.181	ug/L	0.019	10	383	738	6	Standard
	Mn	55	6.020	ug/L	0.030	0	882	144829	1	Standard
>	Ge	72		ug/L			23830	23552	0	KED
	Ni	60	0.084	ug/L	0.004	4	6	122	3	KED
	Ni	62	0.061	ug/L	0.021	34	2	16	29	KED
	Cu	63	0.410	ug/L	0.015	3	33	1694	3	KED
	Cu	65	0.420	ug/L	0.014	3	20	881	3	KED
	Zn	66	0.623	ug/L	0.045	7	27	325	7	KED
	Zn	67	0.636	ug/L	0.110	17	1	51	16	KED
	As	75	0.026	ug/L	0.003	11	3	10	7	KED
	Se	78	0.011	ug/L	0.084	762	9	10	19	KED
	Y	89		ug/L			217874	207989	2	Standard
	Kr	83		ug/L			50	40	33	Standard
>	In-1	115		ug/L			5372	5664	0	KED
	Cd	111	-0.000	ug/L	0.002	645	1	1	34	KED
	Cd	114	0.004	ug/L	0.006	159	2	4	79	KED
>	In	115		ug/L			392470	363582	3	Standard
	Sb	121	0.017	ug/L	0.003	18	233	471	6	Standard
	Sb	123	0.018	ug/L	0.000	2	190	384	5	Standard
>	Tb	159		ug/L			877191	875972	0	Standard
	Tl	205	0.001	ug/L	0.000	51	296	333	5	Standard
	Pb	208	0.008	ug/L	0.000	2	191	796	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0083-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, December 27, 2022 22:01:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27825	38561	4	Standard
	Cl	37		ug/L			7666632	7716791	2	Standard
>	Sc	45		ug/L			374444	364214	2	Standard
	Cr	52	0.097	ug/L	0.015	15	14994	16091	1	Standard
	Cr	53	0.095	ug/L	0.013	13	383	547	6	Standard
	Mn	55	2.088	ug/L	0.039	1	882	48533	0	Standard
>	Ge	72		ug/L			23830	24337	1	KED
	Ni	60	0.084	ug/L	0.005	6	6	126	5	KED
	Ni	62	0.097	ug/L	0.018	18	2	25	15	KED
	Cu	63	0.246	ug/L	0.010	3	33	1062	2	KED
	Cu	65	0.251	ug/L	0.025	9	20	553	10	KED
	Zn	66	0.696	ug/L	0.031	4	27	372	4	KED
	Zn	67	0.813	ug/L	0.131	16	1	67	14	KED
	As	75	0.010	ug/L	0.005	55	3	6	23	KED
	Se	78	0.066	ug/L	0.140	210	9	11	27	KED
	Y	89		ug/L			217874	202129	1	Standard
	Kr	83		ug/L			50	48	18	Standard
>	In-1	115		ug/L			5372	5688	1	KED
	Cd	111	0.004	ug/L	0.003	78	1	2	33	KED
	Cd	114	0.002	ug/L	0.005	259	2	3	86	KED
>	In	115		ug/L			392470	347590	0	Standard
	Sb	121	0.005	ug/L	0.001	29	233	276	6	Standard
	Sb	123	0.003	ug/L	0.002	46	190	207	7	Standard
>	Tb	159		ug/L			877191	854428	1	Standard
	Tl	205	-0.002	ug/L	0.000	13	296	182	6	Standard
	Pb	208	0.009	ug/L	0.000	5	191	808	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0368-DUP1
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, December 27, 2022 22:06:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27825	37345	0	Standard
	Cl	37		ug/L			7666632	7664649	2	Standard
>	Sc	45		ug/L			374444	365765	1	Standard
	Cr	52	0.114	ug/L	0.010	8	14994	16420	0	Standard
	Cr	53	0.103	ug/L	0.020	19	383	564	5	Standard
	Mn	55	1.989	ug/L	0.033	1	882	46462	0	Standard
>	Ge	72		ug/L			23830	23805	0	KED
	Ni	60	0.063	ug/L	0.001	1	6	93	2	KED
	Ni	62	0.061	ug/L	0.013	21	2	16	17	KED
	Cu	63	0.250	ug/L	0.015	5	33	1056	4	KED
	Cu	65	0.245	ug/L	0.035	14	20	528	14	KED
	Zn	66	0.565	ug/L	0.032	5	27	300	5	KED
	Zn	67	0.759	ug/L	0.250	32	1	61	31	KED
	As	75	0.018	ug/L	0.009	46	3	8	26	KED
	Se	78	0.047	ug/L	0.196	413	9	10	41	KED
	Y	89		ug/L			217874	205076	2	Standard
	Kr	83		ug/L			50	53	21	Standard
>	In-1	115		ug/L			5372	5630	1	KED
	Cd	111	0.009	ug/L	0.005	57	1	4	35	KED
	Cd	114	0.002	ug/L	0.005	292	2	3	91	KED
>	In	115		ug/L			392470	349956	1	Standard
	Sb	121	0.003	ug/L	0.002	50	233	253	9	Standard
	Sb	123	0.002	ug/L	0.000	23	190	190	1	Standard
>	Tb	159		ug/L			877191	854494	1	Standard
	Tl	205	-0.002	ug/L	0.001	31	296	195	14	Standard
	Pb	208	0.007	ug/L	0.000	4	191	716	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0368-MS1
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, December 27, 2022 22:11:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27825	39363	2	Standard
	Cl	37		ug/L			7666632	7816555	2	Standard
>	Sc	45		ug/L			374444	376406	0	Standard
	Cr	52	5.500	ug/L	0.052	0	14994	103307	0	Standard
	Cr	53	5.503	ug/L	0.049	0	383	10843	1	Standard
	Mn	55	7.812	ug/L	0.149	1	882	185246	1	Standard
>	Ge	72		ug/L			23830	23782	0	KED
	Ni	60	4.657	ug/L	0.160	3	6	6447	2	KED
	Ni	62	4.754	ug/L	0.322	6	2	1098	6	KED
	Cu	63	4.885	ug/L	0.083	1	33	20011	1	KED
	Cu	65	4.974	ug/L	0.110	2	20	10305	1	KED
	Zn	66	18.383	ug/L	0.357	1	27	8925	1	KED
	Zn	67	17.292	ug/L	0.443	2	1	1361	2	KED
	As	75	4.955	ug/L	0.074	1	3	1246	1	KED
	Se	78	15.084	ug/L	0.256	1	9	352	1	KED
	Y	89		ug/L			217874	204048	1	Standard
	Kr	83		ug/L			50	52	15	Standard
>	In-1	115		ug/L			5372	5742	1	KED
	Cd	111	4.795	ug/L	0.169	3	1	1288	1	KED
	Cd	114	4.790	ug/L	0.265	5	2	3318	4	KED
>	In	115		ug/L			392470	356531	0	Standard
	Sb	121	4.998	ug/L	0.064	1	233	73620	0	Standard
	Sb	123	5.017	ug/L	0.048	0	190	58011	1	Standard
>	Tb	159		ug/L			877191	854537	2	Standard
	Tl	205	5.055	ug/L	0.158	3	296	288786	0	Standard
	Pb	208	5.375	ug/L	0.085	1	191	393307	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0368-MSD1
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, December 27, 2022 22:16:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27825	37264	1	Standard
	Cl	37		ug/L			7666632	7672740	0	Standard
>	Sc	45		ug/L			374444	365230	1	Standard
	Cr	52	5.497	ug/L	0.197	3	14994	100161	1	Standard
	Cr	53	5.494	ug/L	0.201	3	383	10500	1	Standard
	Mn	55	7.614	ug/L	0.284	3	882	175172	2	Standard
>	Ge	72		ug/L			23830	23891	0	KED
	Ni	60	4.708	ug/L	0.050	1	6	6548	1	KED
	Ni	62	4.702	ug/L	0.194	4	2	1091	3	KED
	Cu	63	4.830	ug/L	0.033	0	33	19876	0	KED
	Cu	65	4.964	ug/L	0.155	3	20	10333	2	KED
	Zn	66	15.980	ug/L	0.278	1	27	7798	1	KED
	Zn	67	15.211	ug/L	0.268	1	1	1203	1	KED
	As	75	4.923	ug/L	0.085	1	3	1244	1	KED
	Se	78	15.858	ug/L	0.596	3	9	371	3	KED
	Y	89		ug/L			217874	199480	2	Standard
	Kr	83		ug/L			50	50	36	Standard
>	In-1	115		ug/L			5372	5635	1	KED
	Cd	111	4.962	ug/L	0.197	3	1	1308	3	KED
	Cd	114	4.893	ug/L	0.167	3	2	3329	4	KED
>	In	115		ug/L			392470	351511	0	Standard
	Sb	121	5.133	ug/L	0.113	2	233	74538	2	Standard
	Sb	123	4.991	ug/L	0.087	1	190	56905	2	Standard
>	Tb	159		ug/L			877191	857789	2	Standard
	Tl	205	5.005	ug/L	0.104	2	296	287064	1	Standard
	Pb	208	5.096	ug/L	0.094	1	191	374292	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLA
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 22:21:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27825	27924	2	Standard
	Cl	**37**		ug/L			7666632	7523994	1	Standard
⌈>	**Sc**	**45**		ug/L			374444	350738	3	Standard
|	**Cr**	**52**	**0.020**	ug/L	0.015	78	14994	14335	2	Standard
|	**Cr**	**53**	**-0.045**	ug/L	0.004	9	383	279	4	Standard
⌊	**Mn**	**55**	**0.006**	ug/L	0.001	8	882	966	2	Standard
⌈>	**Ge**	**72**		ug/L			23830	23442	0	KED
|	**Ni**	**60**	**0.005**	ug/L	0.005	87	6	13	43	KED
|	**Ni**	**62**	**0.000**	ug/L	0.013	6818	2	2	114	KED
|	**Cu**	**63**	**0.001**	ug/L	0.002	277	33	34	19	KED
|	**Cu**	**65**	**-0.000**	ug/L	0.004	2497	20	19	36	KED
|	**Zn**	**66**	**-0.015**	ug/L	0.004	29	27	19	11	KED
|	**Zn**	**67**	**0.050**	ug/L	0.049	99	1	5	66	KED
|	**As**	**75**	**-0.001**	ug/L	0.005	477	3	3	37	KED
⌊	**Se**	**78**	**-0.023**	ug/L	0.135	598	9	9	33	KED
	Y	**89**		ug/L			217874	194708	2	Standard
	Kr	**83**		ug/L			50	64	6	Standard
⌈>	**In-1**	**115**		ug/L			5372	5497	2	KED
|	**Cd**	**111**	**0.028**	ug/L	0.011	38	1	8	32	KED
⌊	**Cd**	**114**	**0.011**	ug/L	0.009	81	2	9	60	KED
⌈>	**In**	**115**		ug/L			392470	344052	4	Standard
|	**Sb**	**121**	**-0.011**	ug/L	0.000	2	233	51	11	Standard
⌊	**Sb**	**123**	**-0.012**	ug/L	0.001	4	190	35	15	Standard
⌈>	**Tb**	**159**		ug/L			877191	837275	1	Standard
|	**Tl**	**205**	**-0.003**	ug/L	0.000	18	296	132	21	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	33	191	235	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV7
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 22:26:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27825	25925	5	Standard
	Cl	**37**		ug/L			7666632	7870429	3	Standard
⌈>	**Sc**	**45**		ug/L			374444	355535	0	Standard
|	**Cr**	**52**	**54.620**	ug/L	1.925	3	14994	841754	2	Standard
|	**Cr**	**53**	**54.661**	ug/L	1.461	2	383	98459	1	Standard
⌊	**Mn**	**55**	**54.193**	ug/L	0.477	0	882	1208950	0	Standard
⌈>	**Ge**	**72**		ug/L			23830	23057	2	KED
|	**Ni**	**60**	**46.310**	ug/L	0.989	2	6	62090	1	KED
|	**Ni**	**62**	**45.779**	ug/L	1.374	3	2	10231	0	KED
|	**Cu**	**63**	**46.953**	ug/L	1.362	2	33	186122	0	KED
|	**Cu**	**65**	**46.875**	ug/L	1.254	2	20	93972	0	KED
|	**Zn**	**66**	**47.568**	ug/L	1.406	2	27	22341	0	KED
|	**Zn**	**67**	**47.141**	ug/L	1.549	3	1	3595	1	KED
|	**As**	**75**	**50.082**	ug/L	0.994	1	3	12178	0	KED
⌊	**Se**	**78**	**49.098**	ug/L	0.954	1	9	1091	0	KED
	Y	**89**		ug/L			217874	194265	2	Standard
	Kr	**83**		ug/L			50	60	13	Standard
⌈>	**In-1**	**115**		ug/L			5372	5405	1	KED
|	**Cd**	**111**	**50.594**	ug/L	0.596	1	1	12786	0	KED
⌊	**Cd**	**114**	**49.770**	ug/L	0.512	1	2	32446	1	KED
⌈>	**In**	**115**		ug/L			392470	331678	2	Standard
|	**Sb**	**121**	**52.715**	ug/L	0.845	1	233	720296	1	Standard
⌊	**Sb**	**123**	**51.816**	ug/L	1.671	3	190	555569	1	Standard
⌈>	**Tb**	**159**		ug/L			877191	834900	0	Standard
|	**Tl**	**205**	**46.241**	ug/L	0.707	1	296	2579667	0	Standard
⌊	**Pb**	**208**	**49.675**	ug/L	0.450	0	191	3550637	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB7
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 22:33:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27825	22872	3	Standard
	Cl	**37**		ug/L			7666632	7601163	2	Standard
⌈>	**Sc**	**45**		ug/L			374444	348347	1	Standard
|	**Cr**	**52**	**0.012**	ug/L	0.054	430	14994	14126	4	Standard
|	**Cr**	**53**	**-0.045**	ug/L	0.007	14	383	278	2	Standard
⌊	**Mn**	**55**	**0.014**	ug/L	0.003	18	882	1118	3	Standard
⌈>	**Ge**	**72**		ug/L			23830	23538	1	KED
|	**Ni**	**60**	**0.001**	ug/L	0.002	150	6	8	32	KED
|	**Ni**	**62**	**0.008**	ug/L	0.017	204	2	4	89	KED
|	**Cu**	**63**	**0.005**	ug/L	0.005	96	33	53	37	KED
|	**Cu**	**65**	**0.002**	ug/L	0.006	303	20	24	51	KED
|	**Zn**	**66**	**0.015**	ug/L	0.030	204	27	34	44	KED
|	**Zn**	**67**	**0.074**	ug/L	0.066	89	1	7	66	KED
|	**As**	**75**	**-0.000**	ug/L	0.006	1576	3	3	41	KED
⌊	**Se**	**78**	**-0.068**	ug/L	0.192	282	9	8	54	KED
	Y	**89**		ug/L			217874	195453	2	Standard
	Kr	**83**		ug/L			50	44	6	Standard
⌈>	**In-1**	**115**		ug/L			5372	5581	1	KED
|	**Cd**	**111**	**0.005**	ug/L	0.000	3	1	2	0	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.000	12	2	3	2	KED
⌈>	**In**	**115**		ug/L			392470	345067	2	Standard
|	**Sb**	**121**	**0.000**	ug/L	0.002	618	233	208	9	Standard
⌊	**Sb**	**123**	**-0.002**	ug/L	0.001	57	190	146	6	Standard
⌈>	**Tb**	**159**		ug/L			877191	847230	0	Standard
|	**Tl**	**205**	**-0.001**	ug/L	0.000	11	296	227	3	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	5	191	413	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 22:38:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				23541	2	Standard
	Cl	**37**		ug/L				7538378	2	Standard
⌈>	**Sc**	**45**		ug/L				352268	0	Standard
|	**Cr**	**52**		ug/L				14259	1	Standard
|	**Cr**	**53**		ug/L				286	8	Standard
⌊	**Mn**	**55**		ug/L				1072	2	Standard
⌈>	**Ge**	**72**		ug/L				23157	0	KED
|	**Ni**	**60**		ug/L				12	39	KED
|	**Ni**	**62**		ug/L				1	86	KED
|	**Cu**	**63**		ug/L				48	25	KED
|	**Cu**	**65**		ug/L				24	44	KED
|	**Zn**	**66**		ug/L				39	13	KED
|	**Zn**	**67**		ug/L				7	0	KED
|	**As**	**75**		ug/L				1	21	KED
⌊	**Se**	**78**		ug/L				10	7	KED
	Y	**89**		ug/L				195179	1	Standard
	Kr	**83**		ug/L				45	18	Standard
⌈>	**In-1**	**115**		ug/L				5535	4	KED
|	**Cd**	**111**		ug/L				2	66	KED
⌊	**Cd**	**114**		ug/L				4	112	KED
⌈>	**In**	**115**		ug/L				336436	2	Standard
|	**Sb**	**121**		ug/L				106	5	Standard
⌊	**Sb**	**123**		ug/L				84	11	Standard
⌈>	**Tb**	**159**		ug/L				839162	1	Standard
|	**Tl**	**205**		ug/L				147	1	Standard
⌊	**Pb**	**208**		ug/L				395	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV8
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 22:43:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			23541	24748	1	Standard
	Cl	37		ug/L			7538378	7984973	1	Standard
>	Sc	45		ug/L			352268	356739	1	Standard
	Cr	52	56.249	ug/L	1.673	2	14259	869530	1	Standard
	Cr	53	54.563	ug/L	1.348	2	286	98539	1	Standard
	Mn	55	55.932	ug/L	1.379	2	1072	1252012	1	Standard
>	Ge	72		ug/L			23157	23322	0	KED
	Ni	60	45.601	ug/L	0.346	0	12	61865	0	KED
	Ni	62	45.421	ug/L	1.300	2	1	10272	3	KED
	Cu	63	46.015	ug/L	0.332	0	48	184600	0	KED
	Cu	65	46.715	ug/L	0.630	1	24	94769	1	KED
	Zn	66	47.256	ug/L	1.977	4	39	22471	3	KED
	Zn	67	46.707	ug/L	2.364	5	7	3610	5	KED
	As	75	49.745	ug/L	0.110	0	1	12237	0	KED
	Se	78	48.954	ug/L	0.338	0	10	1101	0	KED
	Y	89		ug/L			195179	195573	3	Standard
	Kr	83		ug/L			45	53	20	Standard
>	In-1	115		ug/L			5535	5508	2	KED
	Cd	111	49.253	ug/L	0.926	1	2	12688	2	KED
	Cd	114	48.954	ug/L	0.834	1	4	32523	1	KED
>	In	115		ug/L			336436	335334	1	Standard
	Sb	121	52.127	ug/L	0.773	1	106	720107	0	Standard
	Sb	123	50.952	ug/L	1.023	2	84	552425	0	Standard
>	Tb	159		ug/L			839162	838580	1	Standard
	Tl	205	45.853	ug/L	0.376	0	147	2569156	0	Standard
	Pb	208	50.449	ug/L	1.131	2	395	3621340	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB8
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 22:50:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23541	23137	1	Standard
	Cl	**37**		ug/L			7538378	7682629	1	Standard
⌈>	**Sc**	**45**		ug/L			352268	359467	3	Standard
|	**Cr**	**52**	**-0.001**	ug/L	0.022	2197	14259	14530	2	Standard
|	**Cr**	**53**	**-0.008**	ug/L	0.009	111	286	277	8	Standard
⌊	**Mn**	**55**	**0.003**	ug/L	0.012	431	1072	1159	25	Standard
⌈>	**Ge**	**72**		ug/L			23157	23806	1	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.001	56	12	8	24	KED
|	**Ni**	**62**	**0.014**	ug/L	0.021	154	1	4	107	KED
|	**Cu**	**63**	**0.004**	ug/L	0.002	51	48	64	10	KED
|	**Cu**	**65**	**0.003**	ug/L	0.001	25	24	30	6	KED
|	**Zn**	**66**	**0.012**	ug/L	0.007	59	39	46	8	KED
|	**Zn**	**67**	**-0.003**	ug/L	0.025	927	7	7	25	KED
|	**As**	**75**	**0.009**	ug/L	0.003	30	1	3	20	KED
⌊	**Se**	**78**	**0.041**	ug/L	0.127	310	10	11	26	KED
	Y	**89**		ug/L			195179	198021	1	Standard
	Kr	**83**		ug/L			45	41	13	Standard
⌈>	**In-1**	**115**		ug/L			5535	5755	0	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.006	153	2	1	86	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.003	81	4	2	94	KED
⌈>	**In**	**115**		ug/L			336436	345083	3	Standard
|	**Sb**	**121**	**0.014**	ug/L	0.008	56	106	306	39	Standard
⌊	**Sb**	**123**	**0.012**	ug/L	0.007	59	84	220	39	Standard
⌈>	**Tb**	**159**		ug/L			839162	850499	1	Standard
|	**Tl**	**205**	**0.007**	ug/L	0.009	128	147	563	95	Standard
⌊	**Pb**	**208**	**0.007**	ug/L	0.010	143	395	906	80	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0481-BLK1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, December 27, 2022 22:55:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23541	38580	1	Standard
	Cl	**37**		ug/L			7538378	7593918	1	Standard
⌈>	**Sc**	**45**		ug/L			352268	363309	1	Standard
|	**Cr**	**52**	**0.100**	ug/L	0.049	48	14259	16256	3	Standard
|	**Cr**	**53**	**0.054**	ug/L	0.011	19	286	393	3	Standard
⌊	**Mn**	**55**	**0.088**	ug/L	0.002	1	1072	3102	1	Standard
⌈>	**Ge**	**72**		ug/L			23157	23889	1	KED
|	**Ni**	**60**	**-0.002**	ug/L	0.002	102	12	10	21	KED
|	**Ni**	**62**	**0.008**	ug/L	0.005	60	1	3	34	KED
|	**Cu**	**63**	**0.013**	ug/L	0.002	15	48	102	7	KED
|	**Cu**	**65**	**0.021**	ug/L	0.004	18	24	67	11	KED
|	**Zn**	**66**	**0.175**	ug/L	0.025	14	39	125	8	KED
|	**Zn**	**67**	**0.157**	ug/L	0.034	21	7	20	14	KED
|	**As**	**75**	**0.012**	ug/L	0.009	71	1	4	50	KED
⌊	**Se**	**78**	**-0.025**	ug/L	0.129	514	10	10	30	KED
	Y	**89**		ug/L			195179	197105	2	Standard
	Kr	**83**		ug/L			45	47	14	Standard
⌈>	**In-1**	**115**		ug/L			5535	5563	4	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.002	39	2	1	43	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.002	94	4	3	38	KED
⌈>	**In**	**115**		ug/L			336436	341069	0	Standard
|	**Sb**	**121**	**0.004**	ug/L	0.000	2	106	164	1	Standard
⌊	**Sb**	**123**	**0.004**	ug/L	0.003	69	84	130	23	Standard
⌈>	**Tb**	**159**		ug/L			839162	849006	1	Standard
|	**Tl**	**205**	**0.000**	ug/L	0.000	26	147	168	3	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.001	21	395	685	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0481-BS1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, December 27, 2022 23:00:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23541	38431	1	Standard
	Cl	**37**		ug/L			7538378	7577908	2	Standard
⌈>	**Sc**	**45**		ug/L			352268	357544	0	Standard
|	**Cr**	**52**	**27.348**	ug/L	0.213	0	14259	431231	0	Standard
|	**Cr**	**53**	**27.366**	ug/L	0.440	1	286	49689	1	Standard
⌊	**Mn**	**55**	**28.546**	ug/L	0.232	0	1072	641070	1	Standard
⌈>	**Ge**	**72**		ug/L			23157	23654	1	KED
|	**Ni**	**60**	**22.740**	ug/L	0.367	1	12	31292	0	KED
|	**Ni**	**62**	**22.729**	ug/L	0.587	2	1	5213	1	KED
|	**Cu**	**63**	**23.097**	ug/L	0.489	2	48	93984	0	KED
|	**Cu**	**65**	**23.209**	ug/L	0.316	1	24	47762	1	KED
|	**Zn**	**66**	**76.214**	ug/L	2.205	2	39	36729	2	KED
|	**Zn**	**67**	**74.121**	ug/L	2.596	3	7	5804	2	KED
|	**As**	**75**	**24.073**	ug/L	0.470	1	1	6006	0	KED
⌊	**Se**	**78**	**76.481**	ug/L	1.466	1	10	1739	0	KED
	Y	**89**		ug/L			195179	196324	1	Standard
	Kr	**83**		ug/L			45	51	9	Standard
⌈>	**In-1**	**115**		ug/L			5535	5754	1	KED
|	**Cd**	**111**	**23.903**	ug/L	0.844	3	2	6431	1	KED
⌊	**Cd**	**114**	**24.062**	ug/L	0.679	2	4	16699	0	KED
⌈>	**In**	**115**		ug/L			336436	344620	0	Standard
|	**Sb**	**121**	**-0.001**	ug/L	0.000	35	106	100	2	Standard
⌊	**Sb**	**123**	**-0.001**	ug/L	0.001	84	84	79	7	Standard
⌈>	**Tb**	**159**		ug/L			839162	843560	1	Standard
|	**Tl**	**205**	**24.845**	ug/L	0.498	2	147	1400254	1	Standard
⌊	**Pb**	**208**	**25.259**	ug/L	0.311	1	395	1824380	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0150-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, December 27, 2022 23:05:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			23541	888578	2	Standard
	Cl	37		ug/L			7538378	7879802	3	Standard
>	Sc	45		ug/L			352268	342193	3	Standard
	Cr	52	4.458	ug/L	0.093	2	14259	78850	1	Standard
	Cr	53	1.663	ug/L	0.059	3	286	3149	3	Standard
	Mn	55	79.171	ug/L	1.235	1	1072	1699240	1	Standard
>	Ge	72		ug/L			23157	21295	1	KED
	Ni	60	27.742	ug/L	0.667	2	12	34363	1	KED
	Ni	62	27.970	ug/L	0.963	3	1	5775	3	KED
	Cu	63	16.281	ug/L	0.250	1	48	59660	0	KED
	Cu	65	16.403	ug/L	0.202	1	24	30397	1	KED
	Zn	66	18.082	ug/L	0.549	3	39	7872	1	KED
	Zn	67	17.936	ug/L	0.991	5	7	1270	6	KED
	As	75	0.140	ug/L	0.027	19	1	32	17	KED
	Se	78	-0.041	ug/L	0.110	268	10	8	27	KED
	Y	89		ug/L			195179	195856	1	Standard
	Kr	83		ug/L			45	59	28	Standard
>	In-1	115		ug/L			5535	4970	2	KED
	Cd	111	0.010	ug/L	0.005	48	2	4	20	KED
	Cd	114	0.016	ug/L	0.010	64	4	13	42	KED
>	In	115		ug/L			336436	327441	1	Standard
	Sb	121	0.136	ug/L	0.004	3	106	1937	3	Standard
	Sb	123	0.132	ug/L	0.003	2	84	1482	3	Standard
>	Tb	159		ug/L			839162	845910	0	Standard
	Tl	205	0.000	ug/L	0.000	222	147	157	12	Standard
	Pb	208	4.289	ug/L	0.042	0	395	311014	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0150-02
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, December 27, 2022 23:09:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			23541	920297	3	Standard
	Cl	37		ug/L			7538378	7878388	3	Standard
⌈>	Sc	45		ug/L			352268	335662	1	Standard
|	Cr	52	4.531	ug/L	0.099	2	14259	78418	2	Standard
|	Cr	53	1.535	ug/L	0.026	1	286	2873	2	Standard
⌊	Mn	55	80.273	ug/L	1.095	1	1072	1690728	2	Standard
⌈>	Ge	72		ug/L			23157	20293	0	KED
|	Ni	60	28.483	ug/L	0.573	2	12	33624	1	KED
|	Ni	62	28.146	ug/L	0.808	2	1	5538	2	KED
|	Cu	63	0.748	ug/L	0.026	3	48	2652	2	KED
|	Cu	65	0.774	ug/L	0.039	5	24	1388	5	KED
|	Zn	66	3.517	ug/L	0.245	6	39	1487	6	KED
|	Zn	67	3.927	ug/L	0.487	12	7	270	12	KED
|	As	75	0.114	ug/L	0.020	17	1	25	16	KED
⌊	Se	78	-0.008	ug/L	0.021	253	10	8	5	KED
	Y	89		ug/L			195179	195134	1	Standard
	Kr	83		ug/L			45	56	15	Standard
⌈>	In-1	115		ug/L			5535	4826	0	KED
|	Cd	111	0.016	ug/L	0.006	40	2	6	24	KED
⌊	Cd	114	0.013	ug/L	0.005	38	4	11	24	KED
⌈>	In	115		ug/L			336436	327607	1	Standard
|	Sb	121	0.095	ug/L	0.008	8	106	1390	6	Standard
⌊	Sb	123	0.092	ug/L	0.001	1	84	1056	2	Standard
⌈>	Tb	159		ug/L			839162	841176	0	Standard
|	Tl	205	-0.001	ug/L	0.000	34	147	109	11	Standard
⌊	Pb	208	0.122	ug/L	0.003	2	395	9192	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0151-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, December 27, 2022 23:14:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			23541	820435	6	Standard
	Cl	37		ug/L			7538378	7930900	3	Standard
>	Sc	45		ug/L			352268	331756	2	Standard
	Cr	52	4.332	ug/L	0.189	4	14259	74665	3	Standard
	Cr	53	1.675	ug/L	0.074	4	286	3073	4	Standard
	Mn	55	80.226	ug/L	0.926	1	1072	1669544	1	Standard
>	Ge	72		ug/L			23157	20555	2	KED
	Ni	60	27.944	ug/L	0.595	2	12	33405	0	KED
	Ni	62	27.696	ug/L	0.884	3	1	5522	4	KED
	Cu	63	25.170	ug/L	0.786	3	48	88972	1	KED
	Cu	65	25.540	ug/L	0.900	3	24	45649	1	KED
	Zn	66	35.493	ug/L	1.938	5	39	14872	3	KED
	Zn	67	34.422	ug/L	0.719	2	7	2346	0	KED
	As	75	0.125	ug/L	0.016	13	1	28	9	KED
	Se	78	0.054	ug/L	0.189	349	10	10	37	KED
	Y	89		ug/L			195179	190435	1	Standard
	Kr	83		ug/L			45	56	3	Standard
>	In-1	115		ug/L			5535	4685	0	KED
	Cd	111	0.028	ug/L	0.015	54	2	8	40	KED
	Cd	114	0.020	ug/L	0.003	15	4	15	10	KED
>	In	115		ug/L			336436	313781	2	Standard
	Sb	121	0.165	ug/L	0.001	0	106	2228	2	Standard
	Sb	123	0.166	ug/L	0.007	4	84	1761	3	Standard
>	Tb	159		ug/L			839162	804610	1	Standard
	Tl	205	0.000	ug/L	0.000	399	147	144	9	Standard
	Pb	208	10.198	ug/L	0.132	1	395	702771	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0152-02
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Tuesday, December 27, 2022 23:19:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23541	39847	1	Standard
	Cl	**37**		ug/L			7538378	8194970	3	Standard
⌈>	**Sc**	**45**		ug/L			352268	336412	2	Standard
|	**Cr**	**52**	**0.261**	ug/L	0.041	15	14259	17347	1	Standard
|	**Cr**	**53**	**0.727**	ug/L	0.060	8	286	1507	5	Standard
⌊	**Mn**	**55**	**158.340**	ug/L	3.533	2	1072	3341078	3	Standard
⌈>	**Ge**	**72**		ug/L			23157	22288	1	KED
|	**Ni**	**60**	**0.956**	ug/L	0.017	1	12	1250	0	KED
|	**Ni**	**62**	**0.907**	ug/L	0.140	15	1	196	13	KED
|	**Cu**	**63**	**0.424**	ug/L	0.009	2	48	1671	0	KED
|	**Cu**	**65**	**0.445**	ug/L	0.013	2	24	885	1	KED
|	**Zn**	**66**	**0.352**	ug/L	0.064	18	39	197	14	KED
|	**Zn**	**67**	**0.908**	ug/L	0.253	27	7	74	25	KED
|	**As**	**75**	**0.114**	ug/L	0.006	4	1	28	6	KED
⌊	**Se**	**78**	**0.000**	ug/L	0.192	6969662	10	9	41	KED
	Y	**89**		ug/L			195179	188677	1	Standard
	Kr	**83**		ug/L			45	46	8	Standard
⌈>	**In-1**	**115**		ug/L			5535	5034	1	KED
|	**Cd**	**111**	**0.008**	ug/L	0.002	29	2	4	12	KED
⌊	**Cd**	**114**	**0.008**	ug/L	0.011	138	4	9	73	KED
⌈>	**In**	**115**		ug/L			336436	325917	2	Standard
|	**Sb**	**121**	**0.028**	ug/L	0.003	9	106	475	6	Standard
⌊	**Sb**	**123**	**0.027**	ug/L	0.003	11	84	361	7	Standard
⌈>	**Tb**	**159**		ug/L			839162	829372	0	Standard
|	**Tl**	**205**	**0.010**	ug/L	0.001	6	147	690	4	Standard
⌊	**Pb**	**208**	**0.008**	ug/L	0.001	15	395	933	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0431-DUP3
Sample Dil Factor: 20
DEL
Comments:
Sample Date/Time: Tuesday, December 27, 2022 23:24:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23541	32893	6	Standard
	Cl	**37**		ug/L			7538378	8216282	3	Standard
⌈>	**Sc**	**45**		ug/L			352268	334929	0	Standard
|	**Cr**	**52**	**0.262**	ug/L	0.048	18	14259	17304	4	Standard
|	**Cr**	**53**	**0.676**	ug/L	0.019	2	286	1414	2	Standard
⌊	**Mn**	**55**	**147.454**	ug/L	1.927	1	1072	3097688	1	Standard
⌈>	**Ge**	**72**		ug/L			23157	21951	1	KED
|	**Ni**	**60**	**1.130**	ug/L	0.049	4	12	1454	5	KED
|	**Ni**	**62**	**1.164**	ug/L	0.029	2	1	248	2	KED
|	**Cu**	**63**	**0.409**	ug/L	0.012	2	48	1589	2	KED
|	**Cu**	**65**	**0.413**	ug/L	0.025	5	24	812	5	KED
|	**Zn**	**66**	**0.540**	ug/L	0.025	4	39	278	5	KED
|	**Zn**	**67**	**0.943**	ug/L	0.173	18	7	75	15	KED
|	**As**	**75**	**0.119**	ug/L	0.011	9	1	28	9	KED
⌊	**Se**	**78**	**0.008**	ug/L	0.042	495	10	10	9	KED
	Y	**89**		ug/L			195179	189521	0	Standard
	Kr	**83**		ug/L			45	55	26	Standard
⌈>	**In-1**	**115**		ug/L			5535	5150	2	KED
|	**Cd**	**111**	**0.004**	ug/L	0.015	425	2	3	103	KED
⌊	**Cd**	**114**	**0.005**	ug/L	0.005	103	4	7	43	KED
⌈>	**In**	**115**		ug/L			336436	326821	1	Standard
|	**Sb**	**121**	**0.024**	ug/L	0.003	13	106	433	11	Standard
⌊	**Sb**	**123**	**0.026**	ug/L	0.001	5	84	355	4	Standard
⌈>	**Tb**	**159**		ug/L			839162	830739	1	Standard
|	**Tl**	**205**	**0.011**	ug/L	0.000	2	147	760	2	Standard
⌊	**Pb**	**208**	**0.008**	ug/L	0.000	0	395	986	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0431-MS3
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Tuesday, December 27, 2022 23:29:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23541	28668	4	Standard
	Cl	**37**		ug/L			7538378	8101315	3	Standard
⌈>	**Sc**	**45**		ug/L			352268	331820	2	Standard
|	**Cr**	**52**	**1.680**	ug/L	0.033	1	14259	37185	2	Standard
|	**Cr**	**53**	**2.181**	ug/L	0.045	2	286	3922	2	Standard
⌊	**Mn**	**55**	**154.675**	ug/L	1.077	0	1072	3218894	1	Standard
⌈>	**Ge**	**72**		ug/L			23157	22300	0	KED
|	**Ni**	**60**	**2.201**	ug/L	0.076	3	12	2865	3	KED
|	**Ni**	**62**	**2.252**	ug/L	0.317	14	1	488	14	KED
|	**Cu**	**63**	**1.663**	ug/L	0.014	0	48	6423	1	KED
|	**Cu**	**65**	**1.705**	ug/L	0.014	0	24	3330	0	KED
|	**Zn**	**66**	**4.415**	ug/L	0.072	1	39	2042	1	KED
|	**Zn**	**67**	**4.567**	ug/L	0.203	4	7	344	4	KED
|	**As**	**75**	**1.447**	ug/L	0.051	3	1	341	3	KED
⌊	**Se**	**78**	**4.193**	ug/L	0.418	9	10	99	8	KED
	Y	**89**		ug/L			195179	189547	1	Standard
	Kr	**83**		ug/L			45	47	12	Standard
⌈>	**In-1**	**115**		ug/L			5535	5057	4	KED
|	**Cd**	**111**	**1.329**	ug/L	0.128	9	2	316	7	KED
⌊	**Cd**	**114**	**1.405**	ug/L	0.067	4	4	860	4	KED
⌈>	**In**	**115**		ug/L			336436	325333	1	Standard
|	**Sb**	**121**	**1.485**	ug/L	0.029	1	106	20005	0	Standard
⌊	**Sb**	**123**	**1.474**	ug/L	0.047	3	84	15587	2	Standard
⌈>	**Tb**	**159**		ug/L			839162	828171	0	Standard
|	**Tl**	**205**	**1.387**	ug/L	0.036	2	147	76917	3	Standard
⌊	**Pb**	**208**	**1.378**	ug/L	0.021	1	395	98118	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0431-MSD3
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Tuesday, December 27, 2022 23:34:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23541	26799	1	Standard
	Cl	**37**		ug/L			7538378	8000653	2	Standard
⌈>	**Sc**	**45**		ug/L			352268	331833	2	Standard
|	**Cr**	**52**	**1.704**	ug/L	0.060	3	14259	37523	1	Standard
|	**Cr**	**53**	**2.214**	ug/L	0.056	2	286	3976	0	Standard
⌊	**Mn**	**55**	**164.719**	ug/L	4.665	2	1072	3426807	1	Standard
⌈>	**Ge**	**72**		ug/L			23157	22450	1	KED
|	**Ni**	**60**	**2.151**	ug/L	0.090	4	12	2818	2	KED
|	**Ni**	**62**	**2.181**	ug/L	0.207	9	1	475	8	KED
|	**Cu**	**63**	**1.654**	ug/L	0.024	1	48	6433	0	KED
|	**Cu**	**65**	**1.693**	ug/L	0.066	3	24	3328	2	KED
|	**Zn**	**66**	**4.499**	ug/L	0.034	0	39	2094	1	KED
|	**Zn**	**67**	**4.587**	ug/L	0.091	1	7	347	0	KED
|	**As**	**75**	**1.474**	ug/L	0.088	5	1	350	4	KED
⌊	**Se**	**78**	**4.346**	ug/L	0.142	3	10	103	2	KED
	Y	**89**		ug/L			195179	183950	1	Standard
	Kr	**83**		ug/L			45	40	9	Standard
⌈>	**In-1**	**115**		ug/L			5535	5256	1	KED
|	**Cd**	**111**	**1.342**	ug/L	0.095	7	2	332	5	KED
⌊	**Cd**	**114**	**1.316**	ug/L	0.064	4	4	839	5	KED
⌈>	**In**	**115**		ug/L			336436	325829	1	Standard
|	**Sb**	**121**	**1.468**	ug/L	0.016	1	106	19815	2	Standard
⌊	**Sb**	**123**	**1.441**	ug/L	0.030	2	84	15261	1	Standard
⌈>	**Tb**	**159**		ug/L			839162	827928	2	Standard
|	**Tl**	**205**	**1.367**	ug/L	0.045	3	147	75763	2	Standard
⌊	**Pb**	**208**	**1.376**	ug/L	0.047	3	395	97845	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLB
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 23:39:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23541	28016	1	Standard
	Cl	**37**		ug/L			7538378	7898523	1	Standard
⌈>	**Sc**	**45**		ug/L			352268	334198	1	Standard
|	**Cr**	**52**	**0.059**	ug/L	0.034	57	14259	14361	1	Standard
|	**Cr**	**53**	**0.005**	ug/L	0.013	248	286	280	7	Standard
⌊	**Mn**	**55**	**-0.015**	ug/L	0.000	2	1072	701	2	Standard
⌈>	**Ge**	**72**		ug/L			23157	22574	1	KED
|	**Ni**	**60**	**0.004**	ug/L	0.004	101	12	16	29	KED
|	**Ni**	**62**	**0.023**	ug/L	0.014	58	1	6	45	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.003	285	48	42	30	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.003	190	24	20	24	KED
|	**Zn**	**66**	**-0.038**	ug/L	0.004	9	39	20	9	KED
|	**Zn**	**67**	**-0.057**	ug/L	0.015	26	7	3	34	KED
|	**As**	**75**	**0.009**	ug/L	0.001	10	1	3	7	KED
⌊	**Se**	**78**	**-0.058**	ug/L	0.091	155	10	8	22	KED
	Y	**89**		ug/L			195179	185576	0	Standard
	Kr	**83**		ug/L			45	41	19	Standard
⌈>	**In-1**	**115**		ug/L			5535	5246	3	KED
|	**Cd**	**111**	**0.007**	ug/L	0.009	120	2	4	44	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.002	32	4	1	86	KED
⌈>	**In**	**115**		ug/L			336436	324648	4	Standard
|	**Sb**	**121**	**-0.004**	ug/L	0.002	41	106	48	39	Standard
⌊	**Sb**	**123**	**-0.003**	ug/L	0.001	27	84	46	25	Standard
⌈>	**Tb**	**159**		ug/L			839162	834125	0	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	12	147	212	3	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	12	395	219	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV9
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 23:43:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23541	25688	2	Standard
	Cl	**37**		ug/L			7538378	7965803	2	Standard
⌈>	**Sc**	**45**		ug/L			352268	338682	0	Standard
|	**Cr**	**52**	**53.829**	ug/L	0.519	0	14259	790778	1	Standard
|	**Cr**	**53**	**53.974**	ug/L	0.491	0	286	92564	1	Standard
⌊	**Mn**	**55**	**54.055**	ug/L	0.547	1	1072	1148936	0	Standard
⌈>	**Ge**	**72**		ug/L			23157	22460	1	KED
|	**Ni**	**60**	**46.036**	ug/L	0.395	0	12	60147	1	KED
|	**Ni**	**62**	**45.858**	ug/L	1.057	2	1	9985	1	KED
|	**Cu**	**63**	**46.352**	ug/L	1.340	2	48	179022	1	KED
|	**Cu**	**65**	**47.515**	ug/L	0.851	1	24	92812	0	KED
|	**Zn**	**66**	**46.499**	ug/L	0.115	0	39	21296	1	KED
|	**Zn**	**67**	**48.053**	ug/L	0.653	1	7	3577	2	KED
|	**As**	**75**	**50.053**	ug/L	0.931	1	1	11855	0	KED
⌊	**Se**	**78**	**47.312**	ug/L	1.862	3	10	1025	2	KED
	Y	**89**		ug/L			195179	189099	0	Standard
	Kr	**83**		ug/L			45	59	10	Standard
⌈>	**In-1**	**115**		ug/L			5535	5167	3	KED
|	**Cd**	**111**	**51.176**	ug/L	2.435	4	2	12353	1	KED
⌊	**Cd**	**114**	**51.515**	ug/L	1.808	3	4	32081	0	KED
⌈>	**In**	**115**		ug/L			336436	322124	0	Standard
|	**Sb**	**121**	**53.738**	ug/L	1.073	1	106	713199	1	Standard
⌊	**Sb**	**123**	**52.693**	ug/L	1.012	1	84	548872	1	Standard
⌈>	**Tb**	**159**		ug/L			839162	833338	1	Standard
|	**Tl**	**205**	**47.049**	ug/L	1.407	2	147	2619143	1	Standard
⌊	**Pb**	**208**	**49.460**	ug/L	0.327	0	395	3528759	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB9
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, December 27, 2022 23:51:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23541	22773	2	Standard
	Cl	**37**		ug/L			7538378	7831996	2	Standard
⌈>	**Sc**	**45**		ug/L			352268	335706	2	Standard
|	**Cr**	**52**	**0.026**	ug/L	0.029	112	14259	13954	0	Standard
|	**Cr**	**53**	**-0.010**	ug/L	0.015	155	286	255	8	Standard
⌊	**Mn**	**55**	**-0.010**	ug/L	0.001	7	1072	820	3	Standard
⌈>	**Ge**	**72**		ug/L			23157	22752	0	KED
|	**Ni**	**60**	**-0.004**	ug/L	0.001	22	12	6	15	KED
|	**Ni**	**62**	**0.003**	ug/L	0.009	288	1	1	100	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.002	155	48	41	20	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.002	71	24	19	17	KED
|	**Zn**	**66**	**0.015**	ug/L	0.036	239	39	45	37	KED
|	**Zn**	**67**	**-0.074**	ug/L	0.025	33	7	1	100	KED
|	**As**	**75**	**0.009**	ug/L	0.007	79	1	3	49	KED
⌊	**Se**	**78**	**-0.038**	ug/L	0.150	389	10	9	35	KED
	Y	**89**		ug/L			195179	189147	3	Standard
	Kr	**83**		ug/L			45	50	17	Standard
⌈>	**In-1**	**115**		ug/L			5535	5489	2	KED
|	**Cd**	**111**	**0.003**	ug/L	0.002	91	2	3	15	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.003	123	4	3	68	KED
⌈>	**In**	**115**		ug/L			336436	335496	2	Standard
|	**Sb**	**121**	**0.010**	ug/L	0.002	20	106	238	9	Standard
⌊	**Sb**	**123**	**0.008**	ug/L	0.001	10	84	168	5	Standard
⌈>	**Tb**	**159**		ug/L			839162	836392	0	Standard
|	**Tl**	**205**	**0.004**	ug/L	0.001	14	147	349	8	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.001	24	395	546	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0136-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, December 27, 2022 23:56:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23541	49178	2	Standard
Cl	37		ug/L			7538378	7837285	3	Standard
> Sc	45		ug/L			352268	448176	1	Standard
Cr	52	12.019	ug/L	0.222	1	14259	247723	2	Standard
Cr	53	11.981	ug/L	0.322	2	286	27465	1	Standard
Mn	55	427.473	ug/L	7.459	1	1072	12013151	1	Standard
> Ge	72		ug/L			23157	23214	0	KED
Ni	60	13.189	ug/L	0.307	2	12	17817	2	KED
Ni	62	13.205	ug/L	0.301	2	1	2973	1	KED
Cu	63	11.373	ug/L	0.237	2	48	45451	2	KED
Cu	65	11.339	ug/L	0.077	0	24	22915	0	KED
Zn	66	42.666	ug/L	0.772	1	39	20200	1	KED
Zn	67	43.232	ug/L	1.016	2	7	3327	2	KED
As	75	4.649	ug/L	0.046	0	1	1139	1	KED
Se	78	0.889	ug/L	0.120	13	10	30	8	KED
Y	89		ug/L			195179	438370	0	Standard
Kr	83		ug/L			45	149	13	Standard
> In-1	115		ug/L			5535	5437	1	KED
Cd	111	0.046	ug/L	0.017	36	2	14	30	KED
Cd	114	0.017	ug/L	0.006	35	4	15	23	KED
> In	115		ug/L			336436	334211	2	Standard
Sb	121	0.011	ug/L	0.001	10	106	250	7	Standard
Sb	123	0.009	ug/L	0.000	4	84	184	4	Standard
> Tb	159		ug/L			839162	844574	1	Standard
Tl	205	0.037	ug/L	0.001	2	147	2210	1	Standard
Pb	208	4.087	ug/L	0.073	1	395	295869	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 00:00:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23541	40797	1	Standard
Cl	37		ug/L			7538378	7820428	2	Standard
> Sc	45		ug/L			352268	493821	3	Standard
Cr	52	14.275	ug/L	0.113	0	14259	320398	2	Standard
Cr	53	14.288	ug/L	0.168	1	286	36013	1	Standard
Mn	55	157.613	ug/L	4.843	3	1072	4879053	1	Standard
> Ge	72		ug/L			23157	23103	1	KED
Ni	60	14.666	ug/L	0.160	1	12	19717	1	KED
Ni	62	15.019	ug/L	0.199	1	1	3365	2	KED
Cu	63	24.531	ug/L	0.597	2	48	97498	2	KED
Cu	65	24.705	ug/L	0.280	1	24	49662	2	KED
Zn	66	50.770	ug/L	0.931	1	39	23910	0	KED
Zn	67	51.743	ug/L	0.542	1	7	3961	0	KED
As	75	5.952	ug/L	0.136	2	1	1451	1	KED
Se	78	1.041	ug/L	0.191	18	10	33	13	KED
Y	89		ug/L			195179	469431	2	Standard
Kr	83		ug/L			45	104	15	Standard
> In-1	115		ug/L			5535	5333	1	KED
Cd	111	0.199	ug/L	0.010	5	2	52	6	KED
Cd	114	0.204	ug/L	0.044	21	4	136	21	KED
> In	115		ug/L			336436	334875	5	Standard
Sb	121	0.015	ug/L	0.003	22	106	308	9	Standard
Sb	123	0.014	ug/L	0.002	11	84	231	10	Standard
> Tb	159		ug/L			839162	846780	1	Standard
Tl	205	0.069	ug/L	0.004	5	147	4043	3	Standard
Pb	208	12.092	ug/L	0.264	2	395	876719	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0495-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 00:05:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23541	43314	4	Standard
Cl	37		ug/L			7538378	7751945	1	Standard
> Sc	45		ug/L			352268	463750	4	Standard
Cr	52	14.396	ug/L	0.708	4	14259	302941	1	Standard
Cr	53	14.601	ug/L	0.579	3	286	34522	1	Standard
Mn	55	164.928	ug/L	4.723	2	1072	4793569	2	Standard
> Ge	72		ug/L			23157	23321	2	KED
Ni	60	13.983	ug/L	0.124	0	12	18976	2	KED
Ni	62	14.058	ug/L	0.365	2	1	3178	1	KED
Cu	63	24.460	ug/L	0.747	3	48	98101	0	KED
Cu	65	24.146	ug/L	0.802	3	24	48970	1	KED
Zn	66	50.243	ug/L	1.680	3	39	23882	2	KED
Zn	67	49.856	ug/L	0.959	1	7	3853	2	KED
As	75	5.593	ug/L	0.096	1	1	1376	1	KED
Se	78	1.090	ug/L	0.213	19	10	34	11	KED
Y	89		ug/L			195179	455650	3	Standard
Kr	83		ug/L			45	76	27	Standard
> In-1	115		ug/L			5535	4464	15	KED
Cd	111	0.180	ug/L	0.015	8	2	39	15	KED
Cd	114	0.229	ug/L	0.061	26	4	124	13	KED
> In	115		ug/L			336436	316963	7	Standard
Sb	121	0.013	ug/L	0.002	13	106	273	14	Standard
Sb	123	0.016	ug/L	0.003	18	84	238	4	Standard
> Tb	159		ug/L			839162	818606	4	Standard
Tl	205	0.068	ug/L	0.002	2	147	3858	2	Standard
Pb	208	13.384	ug/L	0.599	4	395	937098	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0495-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 00:10:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23541	40161	3	Standard
Cl	37		ug/L			7538378	7776853	2	Standard
> Sc	45		ug/L			352268	482988	0	Standard
Cr	52	34.215	ug/L	0.274	0	14259	723914	1	Standard
Cr	53	34.235	ug/L	0.494	1	286	83876	2	Standard
Mn	55	176.847	ug/L	3.718	2	1072	5357092	1	Standard
> Ge	72		ug/L			23157	22905	0	KED
Ni	60	37.169	ug/L	0.466	1	12	49525	0	KED
Ni	62	37.409	ug/L	0.810	2	1	8309	2	KED
Cu	63	47.490	ug/L	0.600	1	48	187103	0	KED
Cu	65	48.744	ug/L	0.239	0	24	97118	0	KED
Zn	66	126.754	ug/L	2.121	1	39	59138	2	KED
Zn	67	124.818	ug/L	2.755	2	7	9464	2	KED
As	75	29.639	ug/L	0.264	0	1	7161	0	KED
Se	78	76.646	ug/L	0.427	0	10	1688	0	KED
Y	89		ug/L			195179	465599	0	Standard
Kr	83		ug/L			45	114	8	Standard
> In-1	115		ug/L			5535	5275	1	KED
Cd	111	25.284	ug/L	0.152	0	2	6239	1	KED
Cd	114	25.114	ug/L	0.544	2	4	15982	2	KED
> In	115		ug/L			336436	324406	1	Standard
Sb	121	0.015	ug/L	0.002	11	106	301	6	Standard
Sb	123	0.014	ug/L	0.001	9	84	226	4	Standard
> Tb	159		ug/L			839162	832343	3	Standard
Tl	205	25.158	ug/L	0.745	2	147	1398479	1	Standard
Pb	208	37.528	ug/L	0.974	2	395	2673003	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0495-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 00:15:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23541	40627	5	Standard
Cl	37		ug/L			7538378	7915234	2	Standard
> Sc	45		ug/L			352268	481811	0	Standard
Cr	52	34.750	ug/L	0.910	2	14259	733193	3	Standard
Cr	53	34.339	ug/L	0.650	1	286	83920	2	Standard
Mn	55	176.331	ug/L	1.159	0	1072	5328686	1	Standard
> Ge	72		ug/L			23157	23440	0	KED
Ni	60	36.949	ug/L	0.595	1	12	50385	2	KED
Ni	62	36.807	ug/L	0.677	1	1	8366	2	KED
Cu	63	46.385	ug/L	0.183	0	48	187024	0	KED
Cu	65	47.514	ug/L	0.375	0	24	96878	1	KED
Zn	66	124.137	ug/L	2.738	2	39	59261	1	KED
Zn	67	121.693	ug/L	1.524	1	7	9441	0	KED
As	75	29.304	ug/L	0.332	1	1	7245	0	KED
Se	78	74.844	ug/L	2.873	3	10	1686	2	KED
Y	89		ug/L			195179	458415	2	Standard
Kr	83		ug/L			45	97	28	Standard
> In-1	115		ug/L			5535	5507	2	KED
Cd	111	24.560	ug/L	0.585	2	2	6325	0	KED
Cd	114	24.673	ug/L	0.854	3	4	16388	2	KED
> In	115		ug/L			336436	330317	2	Standard
Sb	121	0.014	ug/L	0.001	5	106	295	4	Standard
Sb	123	0.014	ug/L	0.006	39	84	233	22	Standard
> Tb	159		ug/L			839162	845740	1	Standard
Tl	205	24.832	ug/L	0.347	1	147	1403251	0	Standard
Pb	208	37.055	ug/L	0.828	2	395	2682796	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0416-61
Sample Dil Factor: 100
Comments:
Sample Date/Time: Wednesday, December 28, 2022 00:21:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			23541	28052	4	Standard
	Cl	37		ug/L			7538378	7522619	3	Standard
>	Sc	45		ug/L			352268	361666	1	Standard
	Cr	52	4.669	ug/L	0.114	2	14259	86595	0	Standard
	Cr	53	4.589	ug/L	0.093	2	286	8670	1	Standard
	Mn	55	55.330	ug/L	1.078	1	1072	1255747	1	Standard
>	Ge	72		ug/L			23157	23165	1	KED
	Ni	60	4.430	ug/L	0.160	3	12	5979	2	KED
	Ni	62	4.489	ug/L	0.037	0	1	1009	2	KED
	Cu	63	12.689	ug/L	0.123	0	48	50593	0	KED
	Cu	65	12.913	ug/L	0.113	0	24	26036	1	KED
	Zn	66	39.203	ug/L	0.065	0	39	18525	1	KED
	Zn	67	36.814	ug/L	0.552	1	7	2828	2	KED
	As	75	2.039	ug/L	0.136	6	1	499	6	KED
	Se	78	0.194	ug/L	0.200	103	10	14	29	KED
	Y	89		ug/L			195179	236305	1	Standard
	Kr	83		ug/L			45	51	13	Standard
>	In-1	115		ug/L			5535	5357	0	KED
	Cd	111	0.304	ug/L	0.025	8	2	79	8	KED
	Cd	114	0.322	ug/L	0.020	6	4	212	5	KED
>	In	115		ug/L			336436	332701	3	Standard
	Sb	121	0.016	ug/L	0.001	8	106	329	4	Standard
	Sb	123	0.015	ug/L	0.000	2	84	246	3	Standard
>	Tb	159		ug/L			839162	844427	1	Standard
	Tl	205	0.018	ug/L	0.001	6	147	1179	7	Standard
	Pb	208	51.763	ug/L	0.832	1	395	3741667	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0433-DUP1
Sample Dil Factor: 100
Comments:
Sample Date/Time: Wednesday, December 28, 2022 00:26:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			23541	28075	2	Standard
	Cl	37		ug/L			7538378	7519777	1	Standard
>	Sc	45		ug/L			352268	356400	1	Standard
	Cr	52	4.654	ug/L	0.013	0	14259	85124	1	Standard
	Cr	53	4.620	ug/L	0.055	1	286	8603	2	Standard
	Mn	55	54.109	ug/L	0.211	0	1072	1210254	0	Standard
>	Ge	72		ug/L			23157	22950	0	KED
	Ni	60	4.331	ug/L	0.081	1	12	5792	1	KED
	Ni	62	4.526	ug/L	0.159	3	1	1008	3	KED
	Cu	63	11.649	ug/L	0.139	1	48	46021	1	KED
	Cu	65	11.955	ug/L	0.198	1	24	23884	1	KED
	Zn	66	37.430	ug/L	0.626	1	39	17524	1	KED
	Zn	67	36.916	ug/L	0.741	2	7	2809	1	KED
	As	75	1.910	ug/L	0.017	0	1	463	0	KED
	Se	78	0.243	ug/L	0.081	33	10	15	11	KED
	Y	89		ug/L			195179	232830	1	Standard
	Kr	83		ug/L			45	49	11	Standard
>	In-1	115		ug/L			5535	5291	1	KED
	Cd	111	0.309	ug/L	0.040	12	2	79	11	KED
	Cd	114	0.289	ug/L	0.026	8	4	188	7	KED
>	In	115		ug/L			336436	334119	0	Standard
	Sb	121	0.017	ug/L	0.000	0	106	339	0	Standard
	Sb	123	0.014	ug/L	0.004	26	84	236	16	Standard
>	Tb	159		ug/L			839162	837953	1	Standard
	Tl	205	0.010	ug/L	0.001	7	147	705	5	Standard
	Pb	208	49.571	ug/L	0.879	1	395	3555883	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0433-MS1
Sample Dil Factor: 100
Comments:
Sample Date/Time: Wednesday, December 28, 2022 00:31:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass		Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13			ug/L			23541	26433	2	Standard
	Cl	37			ug/L			7538378	7564291	2	Standard
⌈>	Sc	45			ug/L			352268	354201	2	Standard
|	Cr	52		10.862	ug/L	0.207	1	14259	178271	0	Standard
|	Cr	53		10.742	ug/L	0.079	0	286	19493	1	Standard
⌊	Mn	55		65.542	ug/L	1.952	2	1072	1456007	0	Standard
⌈>	Ge	72			ug/L			23157	22909	0	KED
|	Ni	60		9.432	ug/L	0.222	2	12	12579	2	KED
|	Ni	62		9.760	ug/L	0.151	1	1	2169	1	KED
|	Cu	63		18.531	ug/L	0.295	1	48	73055	1	KED
|	Cu	65		18.357	ug/L	0.278	1	24	36598	1	KED
|	Zn	66		57.253	ug/L	0.531	0	39	26737	1	KED
|	Zn	67		57.055	ug/L	1.853	3	7	4330	2	KED
|	As	75		7.085	ug/L	0.041	0	1	1713	0	KED
⌊	Se	78		15.523	ug/L	0.931	6	10	350	5	KED
	Y	89			ug/L			195179	234358	2	Standard
	Kr	83			ug/L			45	46	24	Standard
⌈>	In-1	115			ug/L			5535	5386	1	KED
|	Cd	111		5.369	ug/L	0.044	0	2	1354	1	KED
⌊	Cd	114		5.398	ug/L	0.141	2	4	3511	3	KED
⌈>	In	115			ug/L			336436	326018	2	Standard
|	Sb	121		0.018	ug/L	0.003	18	106	346	10	Standard
⌊	Sb	123		0.019	ug/L	0.003	15	84	284	10	Standard
⌈>	Tb	159			ug/L			839162	834742	2	Standard
|	Tl	205		5.106	ug/L	0.113	2	147	284874	1	Standard
⌊	Pb	208	STL	57.562	ug/L	1.679	2	395	4112169	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0433-MSD1
Sample Dil Factor: 100
Comments:
Sample Date/Time: Wednesday, December 28, 2022 00:36:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass		Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13			ug/L			23541	26480	2	Standard
	Cl	37			ug/L			7538378	7496535	2	Standard
⌈>	Sc	45			ug/L			352268	356415	1	Standard
|	Cr	52		9.877	ug/L	0.302	3	14259	164462	2	Standard
|	Cr	53		9.745	ug/L	0.124	1	286	17822	0	Standard
⌊	Mn	55		64.227	ug/L	1.984	3	1072	1436287	2	Standard
⌈>	Ge	72			ug/L			23157	22827	1	KED
|	Ni	60		9.044	ug/L	0.197	2	12	12021	4	KED
|	Ni	62		8.920	ug/L	0.495	5	1	1976	7	KED
|	Cu	63		17.805	ug/L	0.201	1	48	69935	1	KED
|	Cu	65		17.895	ug/L	0.364	2	24	35537	0	KED
|	Zn	66		54.492	ug/L	1.614	2	39	25348	1	KED
|	Zn	67		52.594	ug/L	1.761	3	7	3977	3	KED
|	As	75		7.019	ug/L	0.154	2	1	1690	0	KED
⌊	Se	78		15.318	ug/L	0.887	5	10	344	5	KED
	Y	89			ug/L			195179	240570	2	Standard
	Kr	83			ug/L			45	52	13	Standard
⌈>	In-1	115			ug/L			5535	5336	2	KED
|	Cd	111		5.418	ug/L	0.241	4	2	1353	2	KED
⌊	Cd	114		5.343	ug/L	0.165	3	4	3441	0	KED
⌈>	In	115			ug/L			336436	336829	0	Standard
|	Sb	121		0.013	ug/L	0.002	13	106	286	8	Standard
⌊	Sb	123		0.015	ug/L	0.000	3	84	251	2	Standard
⌈>	Tb	159			ug/L			839162	847313	0	Standard
|	Tl	205		5.056	ug/L	0.010	0	147	286400	0	Standard
⌊	Pb	208	STL	55.488	ug/L	0.836	1	395	4025182	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLC
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 00:40:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23541	26996	1	Standard
	Cl	**37**		ug/L			7538378	7492542	2	Standard
⌈>	**Sc**	**45**		ug/L			352268	341173	1	Standard
|	**Cr**	**52**	**-0.011**	ug/L	0.019	180	14259	13656	2	Standard
|	**Cr**	**53**	**-0.038**	ug/L	0.004	9	286	211	4	Standard
⌊	**Mn**	**55**	**-0.017**	ug/L	0.000	2	1072	671	1	Standard
⌈>	**Ge**	**72**		ug/L			23157	22942	2	KED
|	**Ni**	**60**	**-0.000**	ug/L	0.003	744	12	11	28	KED
|	**Ni**	**62**	**0.003**	ug/L	0.009	300	1	1	100	KED
|	**Cu**	**63**	**-0.003**	ug/L	0.005	146	48	35	48	KED
|	**Cu**	**65**	**-0.000**	ug/L	0.005	2172	24	23	39	KED
|	**Zn**	**66**	**-0.037**	ug/L	0.009	24	39	21	22	KED
|	**Zn**	**67**	**-0.033**	ug/L	0.037	112	7	5	57	KED
|	**As**	**75**	**0.013**	ug/L	0.006	43	1	4	30	KED
⌊	**Se**	**78**	**-0.020**	ug/L	0.075	382	10	9	16	KED
	Y	**89**		ug/L			195179	189138	1	Standard
	Kr	**83**		ug/L			45	48	13	Standard
⌈>	**In-1**	**115**		ug/L			5535	5511	1	KED
|	**Cd**	**111**	**0.022**	ug/L	0.019	86	2	8	57	KED
⌊	**Cd**	**114**	**0.007**	ug/L	0.019	297	4	9	140	KED
⌈>	**In**	**115**		ug/L			336436	330318	2	Standard
|	**Sb**	**121**	**-0.004**	ug/L	0.000	5	106	44	9	Standard
⌊	**Sb**	**123**	**-0.004**	ug/L	0.000	7	84	44	6	Standard
⌈>	**Tb**	**159**		ug/L			839162	838160	0	Standard
|	**Tl**	**205**	**-0.001**	ug/L	0.000	15	147	115	3	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.001	640	395	382	18	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVA
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 00:45:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23541	24425	1	Standard
	Cl	**37**		ug/L			7538378	8075336	3	Standard
⌈>	**Sc**	**45**		ug/L			352268	358063	0	Standard
|	**Cr**	**52**	**53.216**	ug/L	0.225	0	14259	826649	0	Standard
|	**Cr**	**53**	**53.876**	ug/L	1.934	3	286	97690	3	Standard
⌊	**Mn**	**55**	**53.550**	ug/L	0.398	0	1072	1203374	0	Standard
⌈>	**Ge**	**72**		ug/L			23157	22887	1	KED
|	**Ni**	**60**	**44.632**	ug/L	0.705	1	12	59415	0	KED
|	**Ni**	**62**	**44.630**	ug/L	1.436	3	1	9902	2	KED
|	**Cu**	**63**	**45.268**	ug/L	1.020	2	48	178190	1	KED
|	**Cu**	**65**	**45.929**	ug/L	0.030	0	24	91438	1	KED
|	**Zn**	**66**	**46.525**	ug/L	0.895	1	39	21711	1	KED
|	**Zn**	**67**	**46.817**	ug/L	1.407	3	7	3550	2	KED
|	**As**	**75**	**49.632**	ug/L	1.106	2	1	11980	1	KED
⌊	**Se**	**78**	**47.781**	ug/L	1.134	2	10	1055	3	KED
	Y	**89**		ug/L			195179	193777	0	Standard
	Kr	**83**		ug/L			45	52	5	Standard
⌈>	**In-1**	**115**		ug/L			5535	5276	2	KED
|	**Cd**	**111**	**50.047**	ug/L	1.462	2	2	12345	1	KED
⌊	**Cd**	**114**	**50.336**	ug/L	0.804	1	4	32030	1	KED
⌈>	**In**	**115**		ug/L			336436	333821	2	Standard
|	**Sb**	**121**	**51.434**	ug/L	1.408	2	106	707126	0	Standard
⌊	**Sb**	**123**	**50.588**	ug/L	1.997	3	84	545793	2	Standard
⌈>	**Tb**	**159**		ug/L			839162	834446	0	Standard
|	**Tl**	**205**	**46.988**	ug/L	0.721	1	147	2619820	1	Standard
⌊	**Pb**	**208**	**50.038**	ug/L	0.492	0	395	3574776	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBA
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 00:53:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23541	23074	4	Standard
	Cl	**37**		ug/L			7538378	7683290	1	Standard
⌈>	**Sc**	**45**		ug/L			352268	352711	1	Standard
|	**Cr**	**52**	**-0.021**	ug/L	0.008	40	14259	13962	0	Standard
|	**Cr**	**53**	**-0.040**	ug/L	0.008	20	286	215	5	Standard
⌊	**Mn**	**55**	**-0.013**	ug/L	0.002	13	1072	789	5	Standard
⌈>	**Ge**	**72**		ug/L			23157	23372	2	KED
|	**Ni**	**60**	**0.000**	ug/L	0.002	419	12	12	17	KED
|	**Ni**	**62**	**0.003**	ug/L	0.008	305	1	1	100	KED
|	**Cu**	**63**	**0.002**	ug/L	0.003	168	48	55	18	KED
|	**Cu**	**65**	**0.004**	ug/L	0.003	86	24	31	21	KED
|	**Zn**	**66**	**0.015**	ug/L	0.014	89	39	46	11	KED
|	**Zn**	**67**	**-0.001**	ug/L	0.043	5002	7	7	43	KED
|	**As**	**75**	**0.010**	ug/L	0.003	29	1	3	21	KED
⌊	**Se**	**78**	**-0.049**	ug/L	0.058	118	10	9	13	KED
	Y	**89**		ug/L			195179	197357	3	Standard
	Kr	**83**		ug/L			45	57	33	Standard
⌈>	**In-1**	**115**		ug/L			5535	5518	0	KED
|	**Cd**	**111**	**0.000**	ug/L	0.004	8065	2	2	33	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.002	182962	4	4	23	KED
⌈>	**In**	**115**		ug/L			336436	341609	2	Standard
|	**Sb**	**121**	**0.006**	ug/L	0.001	13	106	198	5	Standard
⌊	**Sb**	**123**	**0.006**	ug/L	0.002	35	84	147	14	Standard
⌈>	**Tb**	**159**		ug/L			839162	844751	0	Standard
|	**Tl**	**205**	**0.002**	ug/L	0.000	24	147	244	9	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	8	395	452	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0167-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 00:58:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23541	69061	2	Standard
Cl	37		ug/L			7538378	8359581	3	Standard
> Sc	45		ug/L			352268	463787	1	Standard
Cr	52	23.978	ug/L	0.638	2	14259	492706	2	Standard
Cr	53	23.734	ug/L	0.256	1	286	55950	2	Standard
Mn	55	248.822	ug/L	4.013	1	1072	7238164	2	Standard
> Ge	72		ug/L			23157	22939	2	KED
Ni	60	20.290	ug/L	0.213	1	12	27084	2	KED
Ni	62	20.263	ug/L	0.514	2	1	4509	4	KED
Cu	63	31.114	ug/L	0.773	2	48	122742	0	KED
Cu	65	31.804	ug/L	0.508	1	24	63454	0	KED
Zn	66	87.210	ug/L	2.085	2	39	40746	0	KED
Zn	67	89.588	ug/L	1.838	2	7	6804	2	KED
As	75	30.027	ug/L	0.730	2	1	7263	0	KED
Se	78	1.085	ug/L	0.373	34	10	34	23	KED
Y	89		ug/L			195179	428322	1	Standard
Kr	83		ug/L			45	172	7	Standard
> In-1	115		ug/L			5535	5701	0	KED
Cd	111	0.110	ug/L	0.006	5	2	32	5	KED
Cd	114	0.105	ug/L	0.023	21	4	77	20	KED
> In	115		ug/L			336436	336043	1	Standard
Sb	121	0.109	ug/L	0.003	2	106	1614	1	Standard
Sb	123	0.106	ug/L	0.003	2	84	1231	2	Standard
> Tb	159		ug/L			839162	846200	1	Standard
Tl	205	0.050	ug/L	0.004	8	147	2998	6	Standard
Pb	208	22.840	ug/L	0.180	0	395	1654894	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0167-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 01:02:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23541	64296	1	Standard
Cl	37		ug/L			7538378	8324268	2	Standard
> Sc	45		ug/L			352268	452567	3	Standard
Cr	52	**21.414**	ug/L	0.352	1	14259	431245	1	Standard
Cr	53	**21.335**	ug/L	0.950	4	286	49070	1	Standard
Mn	55	**208.257**	ug/L	4.100	1	1072	5908870	1	Standard
> Ge	72		ug/L			23157	23207	0	KED
Ni	60	**18.643**	ug/L	0.021	0	12	25174	0	KED
Ni	62	**18.679**	ug/L	0.549	2	1	4203	2	KED
Cu	63	**25.735**	ug/L	0.025	0	48	102754	0	KED
Cu	65	**26.222**	ug/L	0.236	0	24	52946	1	KED
Zn	66	**69.203**	ug/L	1.501	2	39	32728	1	KED
Zn	67	**72.126**	ug/L	0.286	0	7	5543	0	KED
As	75	**5.656**	ug/L	0.140	2	1	1385	2	KED
Se	78	**0.831**	ug/L	0.215	25	10	28	16	KED
Y	89		ug/L			195179	413210	2	Standard
Kr	83		ug/L			45	149	16	Standard
> In-1	115		ug/L			5535	5656	0	KED
Cd	111	**0.103**	ug/L	0.031	30	2	30	28	KED
Cd	114	**0.087**	ug/L	0.025	28	4	64	25	KED
> In	115		ug/L			336436	336671	1	Standard
Sb	121	**0.090**	ug/L	0.001	0	106	1353	2	Standard
Sb	123	**0.088**	ug/L	0.005	5	84	1036	3	Standard
> Tb	159		ug/L			839162	834390	1	Standard
Tl	205	**0.045**	ug/L	0.001	2	147	2659	3	Standard
Pb	208	**10.199**	ug/L	0.134	1	395	728835	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0167-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 01:07:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23541	73633	2	Standard
Cl	37		ug/L			7538378	8420859	2	Standard
> Sc	45		ug/L			352268	450097	1	Standard
Cr	52	**26.673**	ug/L	0.384	1	14259	529907	1	Standard
Cr	53	**26.345**	ug/L	0.618	2	286	60219	1	Standard
Mn	55	**224.171**	ug/L	7.076	3	1072	6326348	1	Standard
> Ge	72		ug/L			23157	23211	1	KED
Ni	60	**18.232**	ug/L	0.350	1	12	24621	0	KED
Ni	62	**17.799**	ug/L	0.375	2	1	4007	3	KED
Cu	63	**26.345**	ug/L	0.609	2	48	105187	1	KED
Cu	65	**27.067**	ug/L	0.897	3	24	54645	2	KED
Zn	66	**68.690**	ug/L	2.450	3	39	32483	2	KED
Zn	67	**72.363**	ug/L	1.254	1	7	5562	0	KED
As	75	**6.178**	ug/L	0.183	2	1	1513	1	KED
Se	78	**1.032**	ug/L	0.110	10	10	33	6	KED
Y	89		ug/L			195179	437516	1	Standard
Kr	83		ug/L			45	148	10	Standard
> In-1	115		ug/L			5535	5516	1	KED
Cd	111	**0.085**	ug/L	0.014	16	2	24	13	KED
Cd	114	**0.088**	ug/L	0.005	5	4	63	3	KED
> In	115		ug/L			336436	331868	1	Standard
Sb	121	**0.127**	ug/L	0.006	4	106	1845	3	Standard
Sb	123	**0.127**	ug/L	0.001	0	84	1450	1	Standard
> Tb	159		ug/L			839162	834696	2	Standard
Tl	205	**0.056**	ug/L	0.001	2	147	3283	3	Standard
Pb	208	**9.435**	ug/L	0.250	2	395	674371	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0167-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 01:12:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23541	62453	2	Standard
Cl	37		ug/L			7538378	8292169	3	Standard
> Sc	45		ug/L			352268	456626	2	Standard
Cr	52	18.724	ug/L	0.364	1	14259	382815	0	Standard
Cr	53	18.582	ug/L	0.306	1	286	43209	3	Standard
Mn	55	222.309	ug/L	7.423	3	1072	6363985	1	Standard
> Ge	72		ug/L			23157	22731	1	KED
Ni	60	19.602	ug/L	0.042	0	12	25926	1	KED
Ni	62	19.876	ug/L	0.533	2	1	4380	2	KED
Cu	63	28.060	ug/L	0.350	1	48	109729	1	KED
Cu	65	28.560	ug/L	0.189	0	24	56477	0	KED
Zn	66	69.810	ug/L	0.764	1	39	32336	0	KED
Zn	67	72.889	ug/L	0.686	0	7	5487	1	KED
As	75	6.365	ug/L	0.070	1	1	1527	1	KED
Se	78	0.893	ug/L	0.073	8	10	29	5	KED
Y	89		ug/L			195179	401405	3	Standard
Kr	83		ug/L			45	141	10	Standard
> In-1	115		ug/L			5535	5550	1	KED
Cd	111	0.080	ug/L	0.023	28	2	23	24	KED
Cd	114	0.088	ug/L	0.012	13	4	63	13	KED
> In	115		ug/L			336436	323577	1	Standard
Sb	121	0.085	ug/L	0.002	2	106	1239	3	Standard
Sb	123	0.087	ug/L	0.001	1	84	993	2	Standard
> Tb	159		ug/L			839162	838292	2	Standard
Tl	205	0.064	ug/L	0.000	0	147	3749	2	Standard
Pb	208	8.586	ug/L	0.067	0	395	616549	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0167-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 01:17:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23541	67836	1	Standard
Cl	37		ug/L			7538378	8344205	3	Standard
> Sc	45		ug/L			352268	442380	1	Standard
Cr	52	22.440	ug/L	0.260	1	14259	440970	0	Standard
Cr	53	22.267	ug/L	0.159	0	286	50085	0	Standard
Mn	55	239.260	ug/L	3.089	1	1072	6637406	1	Standard
> Ge	72		ug/L			23157	23463	0	KED
Ni	60	19.651	ug/L	0.194	0	12	26827	0	KED
Ni	62	19.554	ug/L	0.055	0	1	4449	0	KED
Cu	63	26.493	ug/L	0.375	1	48	106952	1	KED
Cu	65	27.203	ug/L	0.425	1	24	55527	0	KED
Zn	66	69.887	ug/L	1.766	2	39	33415	2	KED
Zn	67	72.639	ug/L	1.782	2	7	5644	2	KED
As	75	7.061	ug/L	0.146	2	1	1748	1	KED
Se	78	0.909	ug/L	0.093	10	10	30	6	KED
Y	89		ug/L			195179	408218	2	Standard
Kr	83		ug/L			45	160	12	Standard
> In-1	115		ug/L			5535	5483	2	KED
Cd	111	0.119	ug/L	0.007	6	2	33	2	KED
Cd	114	0.097	ug/L	0.026	26	4	69	26	KED
> In	115		ug/L			336436	325157	0	Standard
Sb	121	0.112	ug/L	0.003	2	106	1600	2	Standard
Sb	123	0.107	ug/L	0.002	1	84	1210	1	Standard
> Tb	159		ug/L			839162	823595	0	Standard
Tl	205	0.057	ug/L	0.002	3	147	3272	3	Standard
Pb	208	9.256	ug/L	0.087	0	395	653014	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0167-08
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 01:21:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23541	66127	1	Standard
Cl	37		ug/L			7538378	8303763	1	Standard
> Sc	45		ug/L			352268	467049	0	Standard
Cr	52	**22.061**	ug/L	0.082	0	14259	458068	0	Standard
Cr	53	**21.795**	ug/L	0.445	2	286	51765	1	Standard
Mn	55	**241.124**	ug/L	2.080	0	1072	7062633	0	Standard
> Ge	72		ug/L			23157	23364	0	KED
Ni	60	**22.715**	ug/L	0.528	2	12	30875	1	KED
Ni	62	**22.853**	ug/L	0.342	1	1	5178	1	KED
Cu	63	**27.421**	ug/L	0.297	1	48	110220	0	KED
Cu	65	**27.489**	ug/L	0.387	1	24	55874	0	KED
Zn	66	**64.674**	ug/L	0.741	1	39	30796	1	KED
Zn	67	**67.141**	ug/L	0.887	1	7	5195	0	KED
As	75	**5.281**	ug/L	0.130	2	1	1302	2	KED
Se	78	**0.860**	ug/L	0.106	12	10	29	8	KED
Y	89		ug/L			195179	453871	3	Standard
Kr	83		ug/L			45	163	16	Standard
> In-1	115		ug/L			5535	5471	2	KED
Cd	111	**0.116**	ug/L	0.005	4	2	32	2	KED
Cd	114	**0.121**	ug/L	0.010	8	4	84	7	KED
> In	115		ug/L			336436	323935	1	Standard
Sb	121	**0.098**	ug/L	0.004	3	106	1414	2	Standard
Sb	123	**0.095**	ug/L	0.009	9	84	1075	8	Standard
> Tb	159		ug/L			839162	835528	1	Standard
Tl	205	**0.047**	ug/L	0.003	6	147	2770	4	Standard
Pb	208	**8.906**	ug/L	0.206	2	395	637361	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0167-09
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 01:26:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23541	64910	1	Standard
Cl	37		ug/L			7538378	8351437	2	Standard
> Sc	45		ug/L			352268	446045	1	Standard
Cr	52	**25.259**	ug/L	0.328	1	14259	498187	0	Standard
Cr	53	**25.266**	ug/L	0.184	0	286	57253	1	Standard
Mn	55	**237.416**	ug/L	3.145	1	1072	6641859	2	Standard
> Ge	72		ug/L			23157	23227	1	KED
Ni	60	**20.038**	ug/L	0.488	2	12	27076	1	KED
Ni	62	**20.430**	ug/L	0.450	2	1	4601	1	KED
Cu	63	**26.707**	ug/L	0.173	0	48	106728	1	KED
Cu	65	**27.015**	ug/L	0.318	1	24	54586	0	KED
Zn	66	**73.209**	ug/L	0.451	0	39	34652	1	KED
Zn	67	**75.636**	ug/L	0.858	1	7	5818	1	KED
As	75	**6.422**	ug/L	0.238	3	1	1574	3	KED
Se	78	**0.947**	ug/L	0.124	13	10	31	9	KED
Y	89		ug/L			195179	401156	1	Standard
Kr	83		ug/L			45	151	18	Standard
> In-1	115		ug/L			5535	5386	2	KED
Cd	111	**0.130**	ug/L	0.010	7	2	35	8	KED
Cd	114	**0.133**	ug/L	0.012	8	4	91	9	KED
> In	115		ug/L			336436	326102	0	Standard
Sb	121	**0.117**	ug/L	0.004	3	106	1673	3	Standard
Sb	123	**0.119**	ug/L	0.002	1	84	1340	2	Standard
> Tb	159		ug/L			839162	836097	0	Standard
Tl	205	**0.048**	ug/L	0.001	2	147	2839	2	Standard
Pb	208	**10.348**	ug/L	0.069	0	395	741102	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0167-10
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 01:31:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23541	59120	1	Standard
Cl	37		ug/L			7538378	8322748	2	Standard
> Sc	45		ug/L			352268	449481	1	Standard
Cr	52	**23.431**	ug/L	0.310	1	14259	467046	1	Standard
Cr	53	**23.248**	ug/L	0.274	1	286	53117	1	Standard
Mn	55	**253.721**	ug/L	1.182	0	1072	7151934	0	Standard
> Ge	72		ug/L			23157	23267	2	KED
Ni	60	**22.762**	ug/L	0.682	2	12	30798	0	KED
Ni	62	**22.147**	ug/L	0.643	2	1	4995	1	KED
Cu	63	**30.583**	ug/L	0.485	1	48	122391	1	KED
Cu	65	**31.376**	ug/L	0.534	1	24	63496	1	KED
Zn	66	**73.012**	ug/L	0.959	1	39	34612	1	KED
Zn	67	**78.623**	ug/L	0.633	0	7	6058	2	KED
As	75	**5.985**	ug/L	0.238	3	1	1469	1	KED
Se	78	**0.925**	ug/L	0.109	11	10	30	7	KED
Y	89		ug/L			195179	412052	1	Standard
Kr	83		ug/L			45	140	19	Standard
> In-1	115		ug/L			5535	5368	2	KED
Cd	111	**0.112**	ug/L	0.023	20	2	31	20	KED
Cd	114	**0.094**	ug/L	0.013	13	4	65	14	KED
> In	115		ug/L			336436	323514	1	Standard
Sb	121	**0.106**	ug/L	0.004	4	106	1513	4	Standard
Sb	123	**0.099**	ug/L	0.002	2	84	1113	2	Standard
> Tb	159		ug/L			839162	821564	1	Standard
Tl	205	**0.051**	ug/L	0.001	2	147	2970	2	Standard
Pb	208	**11.889**	ug/L	0.085	0	395	836568	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0167-11
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 01:35:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			23541	123776	0	Standard
	Cl	37		ug/L			7538378	8088702	2	Standard
>	Sc	45		ug/L			352268	400880	0	Standard
	Cr	52	27.988	ug/L	0.285	1	14259	494426	0	Standard
	Cr	53	28.182	ug/L	0.245	0	286	57361	1	Standard
	Mn	55	166.539	ug/L	3.124	1	1072	4187522	2	Standard
>	Ge	72		ug/L			23157	22948	1	KED
	Ni	60	24.923	ug/L	0.304	1	12	33278	2	KED
	Ni	62	25.554	ug/L	0.437	1	1	5686	1	KED
	Cu	63	289.817	ug/L	7.568	2	48	1143545	1	KED
	Cu	65	296.081	ug/L	8.016	2	24	590788	1	KED
	Zn	66	458.619	ug/L	6.099	1	39	214244	0	KED
	Zn	67	442.431	ug/L	9.376	2	7	33583	1	KED
	As	75	10.242	ug/L	0.109	1	1	2479	0	KED
	Se	78	0.543	ug/L	0.060	10	10	22	6	KED
	Y	89		ug/L			195179	302739	2	Standard
	Kr	83		ug/L			45	65	21	Standard
>	In-1	115		ug/L			5535	5495	1	KED
	Cd	111	0.125	ug/L	0.006	5	2	34	5	KED
	Cd	114	0.139	ug/L	0.011	8	4	97	7	KED
>	In	115		ug/L			336436	311863	3	Standard
	Sb	121	0.198	ug/L	0.008	4	106	2644	5	Standard
	Sb	123	0.189	ug/L	0.005	2	84	1985	5	Standard
>	Tb	159		ug/L			839162	785265	1	Standard
	Tl	205	0.099	ug/L	0.001	0	147	5354	0	Standard
	Pb	208	48.861	ug/L	0.662	1	395	3284848	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLD
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 01:40:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23541	25567	1	Standard
	Cl	**37**		ug/L			7538378	7975467	1	Standard
⌈>	**Sc**	**45**		ug/L			352268	348970	0	Standard
|	**Cr**	**52**	**0.124**	ug/L	0.011	9	14259	15964	0	Standard
|	**Cr**	**53**	**-0.065**	ug/L	0.005	7	286	168	5	Standard
⌊	**Mn**	**55**	**-0.015**	ug/L	0.001	4	1072	743	1	Standard
⌈>	**Ge**	**72**		ug/L			23157	23802	0	KED
|	**Ni**	**60**	**0.002**	ug/L	0.006	220	12	15	48	KED
|	**Ni**	**62**	**0.003**	ug/L	0.008	321	1	1	100	KED
|	**Cu**	**63**	**0.014**	ug/L	0.007	51	48	106	27	KED
|	**Cu**	**65**	**0.009**	ug/L	0.007	73	24	43	31	KED
|	**Zn**	**66**	**-0.007**	ug/L	0.029	394	39	36	38	KED
|	**Zn**	**67**	**0.029**	ug/L	0.055	187	7	10	43	KED
|	**As**	**75**	**0.008**	ug/L	0.002	22	1	3	14	KED
⌊	**Se**	**78**	**0.040**	ug/L	0.042	104	10	11	8	KED
	Y	**89**		ug/L			195179	189081	4	Standard
	Kr	**83**		ug/L			45	45	14	Standard
⌈>	**In-1**	**115**		ug/L			5535	5493	0	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.002	35	2	1	43	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.007	178	4	2	182	KED
⌈>	**In**	**115**		ug/L			336436	327862	0	Standard
|	**Sb**	**121**	**-0.005**	ug/L	0.001	10	106	31	24	Standard
⌊	**Sb**	**123**	**-0.004**	ug/L	0.001	31	84	34	41	Standard
⌈>	**Tb**	**159**		ug/L			839162	818959	0	Standard
|	**Tl**	**205**	**-0.002**	ug/L	0.000	16	147	60	23	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	16	395	260	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVB
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 01:45:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			23541	23872	3	Standard
	Cl	37		ug/L			7538378	8053879	3	Standard
>	Sc	45		ug/L			352268	351355	1	Standard
	Cr	52	54.729	ug/L	1.918	3	14259	833486	1	Standard
	Cr	53	55.200	ug/L	1.298	2	286	98197	2	Standard
	Mn	55	55.292	ug/L	1.096	1	1072	1218961	0	Standard
>	Ge	72		ug/L			23157	23147	0	KED
	Ni	60	44.687	ug/L	0.487	1	12	60168	0	KED
	Ni	62	45.315	ug/L	0.291	0	1	10171	1	KED
	Cu	63	44.724	ug/L	0.427	0	48	178066	0	KED
	Cu	65	45.654	ug/L	1.066	2	24	91936	3	KED
	Zn	66	46.734	ug/L	0.610	1	39	22060	2	KED
	Zn	67	47.831	ug/L	1.766	3	7	3669	3	KED
	As	75	50.138	ug/L	0.499	0	1	12241	1	KED
	Se	78	47.141	ug/L	0.891	1	10	1053	1	KED
	Y	89		ug/L			195179	191981	3	Standard
	Kr	83		ug/L			45	44	21	Standard
>	In-1	115		ug/L			5535	5431	4	KED
	Cd	111	49.731	ug/L	2.263	4	2	12616	0	KED
	Cd	114	49.465	ug/L	1.969	3	4	32374	1	KED
>	In	115		ug/L			336436	327443	4	Standard
	Sb	121	52.315	ug/L	1.454	2	106	705357	2	Standard
	Sb	123	50.517	ug/L	2.451	4	84	534257	1	Standard
>	Tb	159		ug/L			839162	832418	0	Standard
	Tl	205	46.581	ug/L	0.986	2	147	2591184	2	Standard
	Pb	208	48.017	ug/L	0.371	0	395	3422224	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBB
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 01:53:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23541	21988	2	Standard
	Cl	**37**		ug/L			7538378	7775888	2	Standard
⎡>	**Sc**	**45**		ug/L			352268	345584	0	Standard
⎢	**Cr**	**52**	**0.050**	ug/L	0.033	65	14259	14729	3	Standard
⎢	**Cr**	**53**	**-0.050**	ug/L	0.011	21	286	192	10	Standard
⎣	**Mn**	**55**	**0.008**	ug/L	0.003	37	1072	1224	5	Standard
⎡>	**Ge**	**72**		ug/L			23157	23160	1	KED
⎢	**Ni**	**60**	**-0.003**	ug/L	0.003	82	12	7	50	KED
⎢	**Ni**	**62**	**0.008**	ug/L	0.005	58	1	3	34	KED
⎢	**Cu**	**63**	**0.002**	ug/L	0.003	127	48	57	21	KED
⎢	**Cu**	**65**	**0.002**	ug/L	0.005	215	24	29	38	KED
⎢	**Zn**	**66**	**0.011**	ug/L	0.040	375	39	44	43	KED
⎢	**Zn**	**67**	**-0.058**	ug/L	0.053	91	7	3	124	KED
⎢	**As**	**75**	**0.011**	ug/L	0.006	55	1	3	38	KED
⎣	**Se**	**78**	**0.018**	ug/L	0.075	418	10	10	15	KED
	Y	**89**		ug/L			195179	184115	2	Standard
	Kr	**83**		ug/L			45	47	21	Standard
⎡>	**In-1**	**115**		ug/L			5535	5567	1	KED
⎢	**Cd**	**111**	**0.005**	ug/L	0.005	112	2	4	35	KED
⎣	**Cd**	**114**	**0.003**	ug/L	0.010	357	4	6	99	KED
⎡>	**In**	**115**		ug/L			336436	319289	3	Standard
⎢	**Sb**	**121**	**0.009**	ug/L	0.001	8	106	215	6	Standard
⎣	**Sb**	**123**	**0.007**	ug/L	0.001	20	84	149	6	Standard
⎡>	**Tb**	**159**		ug/L			839162	807568	0	Standard
⎢	**Tl**	**205**	**0.005**	ug/L	0.000	2	147	401	2	Standard
⎣	**Pb**	**208**	**0.005**	ug/L	0.001	15	395	753	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0167-12
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 01:57:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23541	128239	1	Standard
	Cl	**37**		ug/L			7538378	8160557	1	Standard
⌈>	**Sc**	**45**		ug/L			352268	403805	3	Standard
|	**Cr**	**52**	**25.721**	ug/L	0.337	1	14259	458918	2	Standard
|	**Cr**	**53**	**25.349**	ug/L	0.408	1	286	51987	1	Standard
⌊	**Mn**	**55**	**191.483**	ug/L	3.336	1	1072	4848934	3	Standard
⌈>	**Ge**	**72**		ug/L			23157	22444	0	KED
|	**Ni**	**60**	**27.111**	ug/L	0.249	0	12	35398	0	KED
|	**Ni**	**62**	**28.513**	ug/L	0.642	2	1	6206	3	KED
|	**Cu**	**63**	**374.325**	ug/L	7.500	2	48	1444864	2	KED
|	**Cu**	**65**	**377.771**	ug/L	6.943	1	24	737290	0	KED
|	**Zn**	**66**	**596.171**	ug/L	3.346	0	39	272393	0	KED
|	**Zn**	**67**	**580.553**	ug/L	9.218	1	7	43101	1	KED
|	**As**	**75**	**10.981**	ug/L	0.161	1	1	2600	0	KED
⌊	**Se**	**78**	**0.926**	ug/L	0.183	19	10	29	12	KED
	Y	**89**		ug/L			195179	297735	3	Standard
	Kr	**83**		ug/L			45	85	5	Standard
⌈>	**In-1**	**115**		ug/L			5535	5659	1	KED
|	**Cd**	**111**	**0.131**	ug/L	0.016	12	2	37	11	KED
⌊	**Cd**	**114**	**0.130**	ug/L	0.012	9	4	93	9	KED
⌈>	**In**	**115**		ug/L			336436	312761	0	Standard
|	**Sb**	**121**	**0.261**	ug/L	0.004	1	106	3459	2	Standard
⌊	**Sb**	**123**	**0.254**	ug/L	0.004	1	84	2643	2	Standard
⌈>	**Tb**	**159**		ug/L			839162	762774	1	Standard
|	**Tl**	**205**	**0.122**	ug/L	0.001	1	147	6358	1	Standard
⌊	**Pb**	**208**	**18.809**	ug/L	0.235	1	395	1228528	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0167-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 02:02:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23541	104455	2	Standard
	Cl	**37**		ug/L			7538378	8006218	2	Standard
⌈>	**Sc**	**45**		ug/L			352268	400490	2	Standard
|	**Cr**	**52**	**18.653**	ug/L	0.494	2	14259	334477	0	Standard
|	**Cr**	**53**	**18.463**	ug/L	0.060	0	286	37655	2	Standard
⌊	**Mn**	**55**	**184.311**	ug/L	6.802	3	1072	4626649	1	Standard
⌈>	**Ge**	**72**		ug/L			23157	22458	1	KED
|	**Ni**	**60**	**23.374**	ug/L	0.366	1	12	30538	0	KED
|	**Ni**	**62**	**23.803**	ug/L	0.646	2	1	5183	1	KED
|	**Cu**	**63**	**226.216**	ug/L	4.420	1	48	873608	0	KED
|	**Cu**	**65**	**229.696**	ug/L	4.694	2	24	448587	1	KED
|	**Zn**	**66**	**536.204**	ug/L	11.786	2	39	245124	1	KED
|	**Zn**	**67**	**513.801**	ug/L	9.994	1	7	38168	0	KED
|	**As**	**75**	**3.321**	ug/L	0.107	3	1	787	2	KED
⌊	**Se**	**78**	**0.650**	ug/L	0.112	17	10	24	8	KED
	Y	**89**		ug/L			195179	299938	2	Standard
	Kr	**83**		ug/L			45	80	6	Standard
⌈>	**In-1**	**115**		ug/L			5535	5347	3	KED
|	**Cd**	**111**	**0.155**	ug/L	0.040	25	2	41	25	KED
⌊	**Cd**	**114**	**0.117**	ug/L	0.006	5	4	80	7	KED
⌈>	**In**	**115**		ug/L			336436	297445	0	Standard
|	**Sb**	**121**	**0.102**	ug/L	0.003	3	106	1339	3	Standard
⌊	**Sb**	**123**	**0.104**	ug/L	0.006	5	84	1072	5	Standard
⌈>	**Tb**	**159**		ug/L			839162	760386	2	Standard
|	**Tl**	**205**	**0.132**	ug/L	0.005	3	147	6856	1	Standard
⌊	**Pb**	**208**	**18.541**	ug/L	0.441	2	395	1206927	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0167-14
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 02:07:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23541	109461	5	Standard
	Cl	**37**		ug/L			7538378	8120538	2	Standard
⌈>	**Sc**	**45**		ug/L			352268	388773	3	Standard
|	**Cr**	**52**	**26.623**	ug/L	1.267	4	14259	456624	3	Standard
|	**Cr**	**53**	**26.499**	ug/L	0.912	3	286	52289	0	Standard
⌊	**Mn**	**55**	**166.308**	ug/L	6.126	3	1072	4052207	0	Standard
⌈>	**Ge**	**72**		ug/L			23157	22666	1	KED
|	**Ni**	**60**	**21.776**	ug/L	0.528	2	12	28714	1	KED
|	**Ni**	**62**	**22.404**	ug/L	1.172	5	1	4922	3	KED
|	**Cu**	**63**	**316.072**	ug/L	5.272	1	48	1232020	1	KED
|	**Cu**	**65**	**325.672**	ug/L	4.127	1	24	641902	0	KED
|	**Zn**	**66**	**413.665**	ug/L	6.045	1	39	190867	0	KED
|	**Zn**	**67**	**400.901**	ug/L	7.883	1	7	30057	0	KED
|	**As**	**75**	**2.910**	ug/L	0.045	1	1	696	2	KED
⌊	**Se**	**78**	**0.715**	ug/L	0.067	9	10	25	7	KED
	Y	**89**		ug/L			195179	273115	1	Standard
	Kr	**83**		ug/L			45	64	16	Standard
⌈>	**In-1**	**115**		ug/L			5535	5548	2	KED
|	**Cd**	**111**	**0.096**	ug/L	0.015	15	2	27	11	KED
⌊	**Cd**	**114**	**0.125**	ug/L	0.010	7	4	88	9	KED
⌈>	**In**	**115**		ug/L			336436	300321	3	Standard
|	**Sb**	**121**	**0.082**	ug/L	0.008	9	106	1107	6	Standard
⌊	**Sb**	**123**	**0.078**	ug/L	0.004	4	84	827	1	Standard
⌈>	**Tb**	**159**		ug/L			839162	773638	2	Standard
|	**Tl**	**205**	**0.092**	ug/L	0.003	3	147	4881	1	Standard
⌊	**Pb**	**208**	**9.274**	ug/L	0.223	2	395	614348	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0167-15
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 02:11:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			23541	116784	0	Standard
	Cl	37		ug/L			7538378	8100099	3	Standard
>	Sc	45		ug/L			352268	407139	3	Standard
	Cr	52	22.091	ug/L	0.494	2	14259	399637	1	Standard
	Cr	53	21.781	ug/L	0.245	1	286	45088	2	Standard
	Mn	55	175.120	ug/L	8.979	5	1072	4467658	2	Standard
>	Ge	72		ug/L			23157	22256	1	KED
	Ni	60	23.195	ug/L	0.611	2	12	30025	0	KED
	Ni	62	23.739	ug/L	1.150	4	1	5120	3	KED
	Cu	63	237.762	ug/L	5.730	2	48	909859	1	KED
	Cu	65	244.060	ug/L	5.327	2	24	472324	1	KED
	Zn	66	470.050	ug/L	8.122	1	39	212941	0	KED
	Zn	67	452.090	ug/L	4.527	1	7	33286	1	KED
	As	75	4.924	ug/L	0.200	4	1	1156	2	KED
	Se	78	0.613	ug/L	0.058	9	10	22	3	KED
	Y	89		ug/L			195179	298319	0	Standard
	Kr	83		ug/L			45	79	18	Standard
>	In-1	115		ug/L			5535	5442	2	KED
	Cd	111	0.099	ug/L	0.023	23	2	27	19	KED
	Cd	114	0.068	ug/L	0.010	14	4	49	10	KED
>	In	115		ug/L			336436	302072	0	Standard
	Sb	121	0.079	ug/L	0.006	7	106	1078	6	Standard
	Sb	123	0.077	ug/L	0.004	5	84	827	4	Standard
>	Tb	159		ug/L			839162	758807	0	Standard
	Tl	205	0.118	ug/L	0.003	2	147	6113	2	Standard
	Pb	208	7.898	ug/L	0.070	0	395	513383	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0167-16
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 02:16:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23541	94892	3	Standard
	Cl	**37**		ug/L			7538378	8054712	1	Standard
⌈>	**Sc**	**45**		ug/L			352268	426127	0	Standard
|	**Cr**	**52**	**16.601**	ug/L	0.601	3	14259	318736	3	Standard
|	**Cr**	**53**	**16.600**	ug/L	0.312	1	286	36056	1	Standard
⌊	**Mn**	**55**	**193.079**	ug/L	4.908	2	1072	5159941	2	Standard
⌈>	**Ge**	**72**		ug/L			23157	22193	9	KED
|	**Ni**	**60**	**19.587**	ug/L	1.614	8	12	25164	1	KED
|	**Ni**	**62**	**19.746**	ug/L	2.326	11	1	4220	4	KED
|	**Cu**	**63**	**77.716**	ug/L	7.549	9	48	294859	0	KED
|	**Cu**	**65**	**79.597**	ug/L	7.060	8	24	152799	1	KED
|	**Zn**	**66**	**156.601**	ug/L	11.935	7	39	70447	2	KED
|	**Zn**	**67**	**151.996**	ug/L	12.352	8	7	11109	2	KED
|	**As**	**75**	**3.890**	ug/L	0.527	13	1	904	3	KED
⌊	**Se**	**78**	**0.719**	ug/L	0.073	10	10	25	15	KED
	Y	**89**		ug/L			195179	371365	1	Standard
	Kr	**83**		ug/L			45	74	32	Standard
⌈>	**In-1**	**115**		ug/L			5535	5440	1	KED
|	**Cd**	**111**	**0.070**	ug/L	0.028	39	2	20	32	KED
⌊	**Cd**	**114**	**0.062**	ug/L	0.024	39	4	45	34	KED
⌈>	**In**	**115**		ug/L			336436	316528	0	Standard
|	**Sb**	**121**	**0.073**	ug/L	0.003	4	106	1055	3	Standard
⌊	**Sb**	**123**	**0.074**	ug/L	0.008	10	84	832	9	Standard
⌈>	**Tb**	**159**		ug/L			839162	822095	2	Standard
|	**Tl**	**205**	**0.069**	ug/L	0.002	2	147	3939	0	Standard
⌊	**Pb**	**208**	**6.672**	ug/L	0.214	3	395	469726	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0167-17
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 02:21:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23541	96235	0	Standard
	Cl	**37**		ug/L			7538378	7992310	2	Standard
⌈>	**Sc**	**45**		ug/L			352268	413072	0	Standard
|	**Cr**	**52**	**15.034**	ug/L	0.183	1	14259	281411	0	Standard
|	**Cr**	**53**	**14.907**	ug/L	0.194	1	286	31422	1	Standard
⌊	**Mn**	**55**	**214.203**	ug/L	1.364	0	1072	5549418	0	Standard
⌈>	**Ge**	**72**		ug/L			23157	23047	1	KED
|	**Ni**	**60**	**19.465**	ug/L	0.444	2	12	26099	1	KED
|	**Ni**	**62**	**19.251**	ug/L	0.665	3	1	4302	2	KED
|	**Cu**	**63**	**56.395**	ug/L	0.542	0	48	223574	1	KED
|	**Cu**	**65**	**57.515**	ug/L	0.097	0	24	115300	1	KED
|	**Zn**	**66**	**153.722**	ug/L	3.506	2	39	72142	1	KED
|	**Zn**	**67**	**149.941**	ug/L	3.393	2	7	11435	1	KED
|	**As**	**75**	**4.625**	ug/L	0.032	0	1	1125	1	KED
⌊	**Se**	**78**	**0.586**	ug/L	0.212	36	10	23	18	KED
	Y	**89**		ug/L			195179	371900	1	Standard
	Kr	**83**		ug/L			45	104	4	Standard
⌈>	**In-1**	**115**		ug/L			5535	5496	1	KED
|	**Cd**	**111**	**0.155**	ug/L	0.030	19	2	42	18	KED
⌊	**Cd**	**114**	**0.139**	ug/L	0.032	23	4	96	20	KED
⌈>	**In**	**115**		ug/L			336436	307072	2	Standard
|	**Sb**	**121**	**0.180**	ug/L	0.009	4	106	2373	2	Standard
⌊	**Sb**	**123**	**0.171**	ug/L	0.004	2	84	1779	4	Standard
⌈>	**Tb**	**159**		ug/L			839162	817507	1	Standard
|	**Tl**	**205**	**0.074**	ug/L	0.001	1	147	4198	1	Standard
⌊	**Pb**	**208**	**7.156**	ug/L	0.122	1	395	501155	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0167-18
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 02:25:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23541	96735	0	Standard
	Cl	**37**		ug/L			7538378	8029196	3	Standard
⌈>	**Sc**	**45**		ug/L			352268	426146	1	Standard
|	**Cr**	**52**	**18.039**	ug/L	0.387	2	14259	344830	1	Standard
|	**Cr**	**53**	**17.782**	ug/L	0.359	2	286	38592	0	Standard
⌊	**Mn**	**55**	**309.119**	ug/L	4.139	1	1072	8259829	0	Standard
⌈>	**Ge**	**72**		ug/L			23157	22543	0	KED
|	**Ni**	**60**	**21.420**	ug/L	0.188	0	12	28096	0	KED
|	**Ni**	**62**	**21.501**	ug/L	0.207	0	1	4700	0	KED
|	**Cu**	**63**	**54.855**	ug/L	0.366	0	48	212707	0	KED
|	**Cu**	**65**	**55.542**	ug/L	0.077	0	24	108911	0	KED
|	**Zn**	**66**	**136.760**	ug/L	1.940	1	39	62794	1	KED
|	**Zn**	**67**	**132.186**	ug/L	1.737	1	7	9863	1	KED
|	**As**	**75**	**3.824**	ug/L	0.028	0	1	910	0	KED
⌊	**Se**	**78**	**1.042**	ug/L	0.176	16	10	32	11	KED
	Y	**89**		ug/L			195179	391852	0	Standard
	Kr	**83**		ug/L			45	165	12	Standard
⌈>	**In-1**	**115**		ug/L			5535	5310	2	KED
|	**Cd**	**111**	**0.090**	ug/L	0.013	14	2	25	11	KED
⌊	**Cd**	**114**	**0.075**	ug/L	0.025	32	4	52	27	KED
⌈>	**In**	**115**		ug/L			336436	309411	0	Standard
|	**Sb**	**121**	**0.041**	ug/L	0.004	8	106	617	7	Standard
⌊	**Sb**	**123**	**0.042**	ug/L	0.001	3	84	494	3	Standard
⌈>	**Tb**	**159**		ug/L			839162	801748	0	Standard
|	**Tl**	**205**	**0.069**	ug/L	0.003	4	147	3828	3	Standard
⌊	**Pb**	**208**	**6.953**	ug/L	0.053	0	395	477657	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0167-19
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 02:31:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23541	98597	1	Standard
	Cl	**37**		ug/L			7538378	7998683	1	Standard
⌈>	**Sc**	**45**		ug/L			352268	409765	1	Standard
|	**Cr**	**52**	**16.624**	ug/L	0.421	2	14259	306871	1	Standard
|	**Cr**	**53**	**16.609**	ug/L	0.059	0	286	34692	2	Standard
⌊	**Mn**	**55**	**190.422**	ug/L	7.394	3	1072	4892108	2	Standard
⌈>	**Ge**	**72**		ug/L			23157	23187	0	KED
|	**Ni**	**60**	**17.981**	ug/L	0.138	0	12	24259	0	KED
|	**Ni**	**62**	**18.542**	ug/L	0.534	2	1	4169	2	KED
|	**Cu**	**63**	**76.948**	ug/L	1.112	1	48	306874	1	KED
|	**Cu**	**65**	**78.950**	ug/L	1.262	1	24	159219	1	KED
|	**Zn**	**66**	**156.870**	ug/L	3.362	2	39	74077	2	KED
|	**Zn**	**67**	**153.240**	ug/L	2.028	1	7	11759	1	KED
|	**As**	**75**	**3.793**	ug/L	0.074	1	1	928	1	KED
⌊	**Se**	**78**	**0.954**	ug/L	0.125	13	10	31	8	KED
	Y	**89**		ug/L			195179	364800	1	Standard
	Kr	**83**		ug/L			45	86	24	Standard
⌈>	**In-1**	**115**		ug/L			5535	5452	2	KED
|	**Cd**	**111**	**0.077**	ug/L	0.010	12	2	22	13	KED
⌊	**Cd**	**114**	**0.118**	ug/L	0.102	86	4	83	83	KED
⌈>	**In**	**115**		ug/L			336436	317455	2	Standard
|	**Sb**	**121**	**0.040**	ug/L	0.004	10	106	622	8	Standard
⌊	**Sb**	**123**	**0.040**	ug/L	0.002	5	84	491	3	Standard
⌈>	**Tb**	**159**		ug/L			839162	803375	1	Standard
|	**Tl**	**205**	**0.081**	ug/L	0.003	3	147	4489	2	Standard
⌊	**Pb**	**208**	**5.335**	ug/L	0.062	1	395	367254	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0167-20
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 02:37:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23541	99264	3	Standard
	Cl	**37**		ug/L			7538378	7914136	1	Standard
⌈>	**Sc**	**45**		ug/L			352268	406459	0	Standard
|	**Cr**	**52**	**17.693**	ug/L	0.321	1	14259	322947	1	Standard
|	**Cr**	**53**	**17.095**	ug/L	0.537	3	286	35412	3	Standard
⌊	**Mn**	**55**	**185.854**	ug/L	1.423	0	1072	4738071	1	Standard
⌈>	**Ge**	**72**		ug/L			23157	22871	2	KED
|	**Ni**	**60**	**21.613**	ug/L	0.400	1	12	28757	2	KED
|	**Ni**	**62**	**22.032**	ug/L	0.571	2	1	4884	1	KED
|	**Cu**	**63**	**39.009**	ug/L	1.031	2	48	153398	0	KED
|	**Cu**	**65**	**39.494**	ug/L	1.092	2	24	78535	0	KED
|	**Zn**	**66**	**101.101**	ug/L	2.685	2	39	47083	1	KED
|	**Zn**	**67**	**98.947**	ug/L	4.710	4	7	7485	1	KED
|	**As**	**75**	**3.108**	ug/L	0.083	2	1	750	0	KED
⌊	**Se**	**78**	**0.918**	ug/L	0.169	18	10	30	9	KED
	Y	**89**		ug/L			195179	377419	2	Standard
	Kr	**83**		ug/L			45	69	29	Standard
⌈>	**In-1**	**115**		ug/L			5535	5445	1	KED
|	**Cd**	**111**	**0.086**	ug/L	0.022	25	2	24	23	KED
⌊	**Cd**	**114**	**0.072**	ug/L	0.032	44	4	52	41	KED
⌈>	**In**	**115**		ug/L			336436	307594	2	Standard
|	**Sb**	**121**	**0.025**	ug/L	0.001	3	106	413	1	Standard
⌊	**Sb**	**123**	**0.027**	ug/L	0.001	2	84	345	3	Standard
⌈>	**Tb**	**159**		ug/L			839162	825275	1	Standard
|	**Tl**	**205**	**0.051**	ug/L	0.002	3	147	2940	1	Standard
⌊	**Pb**	**208**	**5.554**	ug/L	0.097	1	395	392736	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 02:42:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23541	25389	1	Standard
	Cl	**37**		ug/L			7538378	7639675	1	Standard
⌈>	**Sc**	**45**		ug/L			352268	343410	0	Standard
|	**Cr**	**52**	**0.092**	ug/L	0.020	21	14259	15240	1	Standard
|	**Cr**	**53**	**-0.077**	ug/L	0.007	8	286	144	8	Standard
⌊	**Mn**	**55**	**-0.012**	ug/L	0.001	8	1072	791	3	Standard
⌈>	**Ge**	**72**		ug/L			23157	23225	0	KED
|	**Ni**	**60**	**0.003**	ug/L	0.006	195	12	16	52	KED
|	**Ni**	**62**	**0.008**	ug/L	0.017	208	1	3	124	KED
|	**Cu**	**63**	**0.001**	ug/L	0.003	385	48	51	23	KED
|	**Cu**	**65**	**0.004**	ug/L	0.005	112	24	33	29	KED
|	**Zn**	**66**	**-0.019**	ug/L	0.017	90	39	30	27	KED
|	**Zn**	**67**	**-0.025**	ug/L	0.024	96	7	5	33	KED
|	**As**	**75**	**0.003**	ug/L	0.003	92	1	2	35	KED
⌊	**Se**	**78**	**-0.041**	ug/L	0.057	141	10	9	12	KED
	Y	**89**		ug/L			195179	181092	5	Standard
	Kr	**83**		ug/L			45	40	19	Standard
⌈>	**In-1**	**115**		ug/L			5535	5453	1	KED
|	**Cd**	**111**	**0.001**	ug/L	0.006	401	2	3	45	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.005	745	4	4	65	KED
⌈>	**In**	**115**		ug/L			336436	313269	2	Standard
|	**Sb**	**121**	**-0.005**	ug/L	0.001	17	106	33	35	Standard
⌊	**Sb**	**123**	**-0.005**	ug/L	0.001	19	84	29	30	Standard
⌈>	**Tb**	**159**		ug/L			839162	817718	1	Standard
|	**Tl**	**205**	**-0.002**	ug/L	0.000	9	147	46	21	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.000	10	395	210	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVC
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 02:46:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23541	23837	0	Standard
	Cl	**37**		ug/L			7538378	7980213	3	Standard
>	**Sc**	**45**		ug/L			352268	339102	1	Standard
	Cr	**52**	**56.846**	ug/L	2.611	4	14259	834913	2	Standard
	Cr	**53**	**56.465**	ug/L	2.220	3	286	96899	2	Standard
	Mn	**55**	**56.698**	ug/L	1.781	3	1072	1206174	1	Standard
>	**Ge**	**72**		ug/L			23157	22940	1	KED
	Ni	**60**	**44.974**	ug/L	1.450	3	12	59992	1	KED
	Ni	**62**	**45.974**	ug/L	1.628	3	1	10222	1	KED
	Cu	**63**	**46.859**	ug/L	1.134	2	48	184851	0	KED
	Cu	**65**	**46.454**	ug/L	1.175	2	24	92674	1	KED
	Zn	**66**	**46.960**	ug/L	0.770	1	39	21962	0	KED
	Zn	**67**	**48.422**	ug/L	1.454	3	7	3681	2	KED
	As	**75**	**49.638**	ug/L	1.432	2	1	12007	0	KED
	Se	**78**	**49.143**	ug/L	1.452	2	10	1087	0	KED
	Y	**89**		ug/L			195179	184431	1	Standard
	Kr	**83**		ug/L			45	50	17	Standard
>	**In-1**	**115**		ug/L			5535	5549	0	KED
	Cd	**111**	**48.151**	ug/L	0.991	2	2	12497	1	KED
	Cd	**114**	**48.419**	ug/L	0.569	1	4	32412	0	KED
>	**In**	**115**		ug/L			336436	304771	2	Standard
	Sb	**121**	**53.638**	ug/L	1.280	2	106	673263	0	Standard
	Sb	**123**	**52.230**	ug/L	1.400	2	84	514595	2	Standard
>	**Tb**	**159**		ug/L			839162	799733	2	Standard
	Tl	**205**	**45.897**	ug/L	0.706	1	147	2452622	2	Standard
	Pb	**208**	**49.012**	ug/L	1.034	2	395	3354934	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBC
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 02:54:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23541	22214	3	Standard
	Cl	**37**		ug/L			7538378	7879525	1	Standard
⌈>	**Sc**	**45**		ug/L			352268	340144	0	Standard
|	**Cr**	**52**	**0.076**	ug/L	0.014	18	14259	14865	1	Standard
|	**Cr**	**53**	**-0.064**	ug/L	0.004	6	286	166	4	Standard
⌊	**Mn**	**55**	**-0.018**	ug/L	0.000	1	1072	646	1	Standard
⌈>	**Ge**	**72**		ug/L			23157	23470	1	KED
|	**Ni**	**60**	**-0.004**	ug/L	0.001	22	12	6	15	KED
|	**Ni**	**62**	**0.003**	ug/L	0.000	3	1	1		KED
|	**Cu**	**63**	**-0.002**	ug/L	0.001	30	48	40	7	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.004	221	24	20	36	KED
|	**Zn**	**66**	**-0.037**	ug/L	0.010	25	39	22	19	KED
|	**Zn**	**67**	**-0.058**	ug/L	0.052	88	7	3	124	KED
|	**As**	**75**	**0.012**	ug/L	0.012	100	1	4	69	KED
⌊	**Se**	**78**	**0.013**	ug/L	0.058	438	10	10	12	KED
	Y	**89**		ug/L			195179	183836	0	Standard
	Kr	**83**		ug/L			45	52	4	Standard
⌈>	**In-1**	**115**		ug/L			5535	5595	0	KED
|	**Cd**	**111**	**0.005**	ug/L	0.009	194	2	4	58	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.003	157	4	3	52	KED
⌈>	**In**	**115**		ug/L			336436	320115	0	Standard
|	**Sb**	**121**	**0.007**	ug/L	0.003	38	106	194	19	Standard
⌊	**Sb**	**123**	**0.008**	ug/L	0.001	12	84	160	6	Standard
⌈>	**Tb**	**159**		ug/L			839162	816286	1	Standard
|	**Tl**	**205**	**0.003**	ug/L	0.001	15	147	330	8	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	11	395	219	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0126-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 02:59:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23541	70347	1	Standard
Cl	37		ug/L			7538378	7992733	0	Standard
> Sc	45		ug/L			352268	483844	1	Standard
Cr	52	35.538	ug/L	1.397	3	14259	752344	3	Standard
Cr	53	35.790	ug/L	0.639	1	286	87807	1	Standard
Mn	55	989.040	ug/L	22.881	2	1072	30001986	1	Standard
> Ge	72		ug/L			23157	23791	1	KED
Ni	60	38.780	ug/L	0.983	2	12	53658	1	KED
Ni	62	38.112	ug/L	1.253	3	1	8789	1	KED
Cu	63	25.764	ug/L	0.226	0	48	105452	1	KED
Cu	65	26.171	ug/L	0.714	2	24	54156	1	KED
Zn	66	90.157	ug/L	3.189	3	39	43685	1	KED
Zn	67	102.312	ug/L	0.561	0	7	8058	1	KED
As	75	11.186	ug/L	0.143	1	1	2807	0	KED
Se	78	0.763	ug/L	0.169	22	10	28	13	KED
Y	89		ug/L			195179	333503	3	Standard
Kr	83		ug/L			45	149	5	Standard
> In-1	115		ug/L			5535	5472	2	KED
Cd	111	0.364	ug/L	0.040	10	2	95	7	KED
Cd	114	0.338	ug/L	0.027	8	4	228	10	KED
> In	115		ug/L			336436	320757	0	Standard
Sb	121	0.048	ug/L	0.004	8	106	737	7	Standard
Sb	123	0.046	ug/L	0.001	1	84	554	1	Standard
> Tb	159		ug/L			839162	814345	1	Standard
Tl	205	0.128	ug/L	0.004	2	147	7091	3	Standard
Pb	208	32.673	ug/L	0.451	1	395	2277933	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0126-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 03:03:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23541	65381	2	Standard
Cl	37		ug/L			7538378	8076619	0	Standard
> Sc	45		ug/L			352268	496556	1	Standard
Cr	52	40.637	ug/L	0.225	0	14259	880203	1	Standard
Cr	53	40.356	ug/L	0.166	0	286	101571	1	Standard
Mn	55	549.405	ug/L	7.539	1	1072	17107771	1	Standard
> Ge	72		ug/L			23157	23704	1	KED
Ni	60	42.362	ug/L	0.477	1	12	58413	1	KED
Ni	62	42.920	ug/L	0.903	2	1	9863	1	KED
Cu	63	25.750	ug/L	0.360	1	48	105005	0	KED
Cu	65	26.273	ug/L	0.267	1	24	54182	1	KED
Zn	66	74.312	ug/L	1.257	1	39	35891	0	KED
Zn	67	84.157	ug/L	1.140	1	7	6605	1	KED
As	75	9.653	ug/L	0.136	1	1	2414	0	KED
Se	78	0.880	ug/L	0.104	11	10	30	8	KED
Y	89		ug/L			195179	328735	2	Standard
Kr	83		ug/L			45	156	6	Standard
> In-1	115		ug/L			5535	5419	1	KED
Cd	111	0.325	ug/L	0.043	13	2	85	11	KED
Cd	114	0.372	ug/L	0.037	9	4	248	10	KED
> In	115		ug/L			336436	311237	0	Standard
Sb	121	0.027	ug/L	0.001	3	106	439	2	Standard
Sb	123	0.025	ug/L	0.002	7	84	326	6	Standard
> Tb	159		ug/L			839162	805166	2	Standard
Tl	205	0.126	ug/L	0.004	2	147	6929	2	Standard
Pb	208	22.604	ug/L	0.386	1	395	1558064	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0126-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 03:08:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23541	65578	3	Standard
Cl	37		ug/L			7538378	8035251	3	Standard
> Sc	45		ug/L			352268	479833	2	Standard
Cr	52	37.509	ug/L	0.778	2	14259	786318	0	Standard
Cr	53	38.080	ug/L	0.886	2	286	92613	1	Standard
Mn	55	596.917	ug/L	15.304	2	1072	17954279	0	Standard
> Ge	72		ug/L			23157	23409	2	KED
Ni	60	41.277	ug/L	1.432	3	12	56183	1	KED
Ni	62	41.700	ug/L	1.832	4	1	9459	2	KED
Cu	63	24.370	ug/L	0.494	2	48	98132	1	KED
Cu	65	25.058	ug/L	0.701	2	24	51016	1	KED
Zn	66	71.977	ug/L	1.779	2	39	34324	0	KED
Zn	67	80.350	ug/L	2.948	3	7	6226	2	KED
As	75	9.123	ug/L	0.112	1	1	2253	3	KED
Se	78	0.813	ug/L	0.368	45	10	28	30	KED
Y	89		ug/L			195179	335494	1	Standard
Kr	83		ug/L			45	171	3	Standard
> In-1	115		ug/L			5535	5370	1	KED
Cd	111	0.302	ug/L	0.025	8	2	78	8	KED
Cd	114	0.286	ug/L	0.024	8	4	190	9	KED
> In	115		ug/L			336436	314009	1	Standard
Sb	121	0.049	ug/L	0.003	6	106	738	7	Standard
Sb	123	0.046	ug/L	0.006	12	84	549	9	Standard
> Tb	159		ug/L			839162	787997	1	Standard
Tl	205	0.117	ug/L	0.002	1	147	6311	0	Standard
Pb	208	19.089	ug/L	0.377	1	395	1287918	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0126-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 03:13:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23541	52466	1	Standard
Cl	37		ug/L			7538378	8141122	1	Standard
Sc	45		ug/L			352268	475322	3	Standard
Cr	52	**38.996**	ug/L	1.130	2	14259	808812	0	Standard
Cr	53	**38.552**	ug/L	0.743	1	286	92863	1	Standard
Mn	55	**241.642**	ug/L	9.384	3	1072	7198455	1	Standard
Ge	72		ug/L			23157	23427	1	KED
Ni	60	**46.567**	ug/L	1.128	2	12	63446	1	KED
Ni	62	**45.590**	ug/L	1.210	2	1	10354	1	KED
Cu	63	**20.408**	ug/L	0.283	1	48	82262	1	KED
Cu	65	**21.076**	ug/L	0.127	0	24	42963	1	KED
Zn	66	**54.782**	ug/L	0.310	0	39	26162	1	KED
Zn	67	**59.131**	ug/L	0.676	1	7	4589	2	KED
As	75	**3.666**	ug/L	0.103	2	1	907	2	KED
Se	78	**0.851**	ug/L	0.108	12	10	29	9	KED
Y	89		ug/L			195179	309971	3	Standard
Kr	83		ug/L			45	158	10	Standard
In-1	115		ug/L			5535	5298	4	KED
Cd	111	**0.105**	ug/L	0.018	17	2	28	11	KED
Cd	114	**0.092**	ug/L	0.019	20	4	63	17	KED
In	115		ug/L			336436	312728	1	Standard
Sb	121	**0.005**	ug/L	0.000	7	106	161	3	Standard
Sb	123	**0.004**	ug/L	0.002	40	84	116	14	Standard
Tb	159		ug/L			839162	821208	1	Standard
Tl	205	**0.087**	ug/L	0.001	1	147	4932	1	Standard
Pb	208	**4.868**	ug/L	0.107	2	395	342535	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0126-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 03:17:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23541	68915	0	Standard
Cl	37		ug/L			7538378	8078522	1	Standard
> Sc	45		ug/L			352268	480115	1	Standard
Cr	52	39.800	ug/L	0.495	1	14259	833789	1	Standard
Cr	53	39.012	ug/L	0.395	1	286	94938	0	Standard
Mn	55	776.648	ug/L	9.117	1	1072	23385745	3	Standard
> Ge	72		ug/L			23157	23872	1	KED
Ni	60	41.760	ug/L	0.970	2	12	57984	1	KED
Ni	62	41.633	ug/L	0.940	2	1	9636	2	KED
Cu	63	20.579	ug/L	0.349	1	48	84520	0	KED
Cu	65	20.930	ug/L	0.076	0	24	43476	1	KED
Zn	66	76.405	ug/L	0.965	1	39	37169	1	KED
Zn	67	86.076	ug/L	0.173	0	7	6804	0	KED
As	75	6.480	ug/L	0.101	1	1	1632	0	KED
Se	78	0.720	ug/L	0.033	4	10	27	1	KED
Y	89		ug/L			195179	334123	2	Standard
Kr	83		ug/L			45	158	13	Standard
> In-1	115		ug/L			5535	5418	2	KED
Cd	111	0.265	ug/L	0.052	19	2	69	17	KED
Cd	114	0.256	ug/L	0.038	14	4	171	13	KED
> In	115		ug/L			336436	314813	2	Standard
Sb	121	0.014	ug/L	0.001	6	106	286	3	Standard
Sb	123	0.016	ug/L	0.001	6	84	238	4	Standard
> Tb	159		ug/L			839162	795021	0	Standard
Tl	205	0.125	ug/L	0.003	2	147	6777	1	Standard
Pb	208	15.115	ug/L	0.153	1	395	1029048	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0126-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 03:22:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23541	72242	1	Standard
Cl	37		ug/L			7538378	8128060	2	Standard
> Sc	45		ug/L			352268	480836	0	Standard
Cr	52	34.651	ug/L	0.550	1	14259	729626	2	Standard
Cr	53	34.909	ug/L	0.067	0	286	85133	0	Standard
Mn	55	684.759	ug/L	7.403	1	1072	20648387	2	Standard
> Ge	72		ug/L			23157	23328	0	KED
Ni	60	39.694	ug/L	0.238	0	12	53866	0	KED
Ni	62	40.040	ug/L	0.734	1	1	9057	2	KED
Cu	63	22.410	ug/L	0.158	0	48	89949	0	KED
Cu	65	22.777	ug/L	0.251	1	24	46230	0	KED
Zn	66	72.912	ug/L	0.734	1	39	34661	0	KED
Zn	67	82.291	ug/L	3.150	3	7	6356	3	KED
As	75	10.485	ug/L	0.054	0	1	2581	0	KED
Se	78	0.747	ug/L	0.078	10	10	27	6	KED
Y	89		ug/L			195179	323604	1	Standard
Kr	83		ug/L			45	142	11	Standard
> In-1	115		ug/L			5535	4546	19	KED
Cd	111	0.377	ug/L	0.064	17	2	80	8	KED
Cd	114	0.407	ug/L	0.095	23	4	221	11	KED
> In	115		ug/L			336436	314759	1	Standard
Sb	121	0.028	ug/L	0.002	8	106	458	7	Standard
Sb	123	0.029	ug/L	0.003	10	84	375	9	Standard
> Tb	159		ug/L			839162	824068	0	Standard
Tl	205	0.110	ug/L	0.004	3	147	6221	3	Standard
Pb	208	18.583	ug/L	0.128	0	395	1311407	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0126-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 03:27:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23541	57053	2	Standard
Cl	37		ug/L			7538378	8116849	2	Standard
> Sc	45		ug/L			352268	467799	1	Standard
Cr	52	35.922	ug/L	0.520	1	14259	735190	2	Standard
Cr	53	35.889	ug/L	0.349	0	286	85129	0	Standard
Mn	55	505.602	ug/L	12.341	2	1072	14827695	0	Standard
> Ge	72		ug/L			23157	23239	1	KED
Ni	60	37.520	ug/L	0.780	2	12	50713	0	KED
Ni	62	36.912	ug/L	0.894	2	1	8317	2	KED
Cu	63	16.958	ug/L	0.367	2	48	67812	1	KED
Cu	65	16.926	ug/L	0.195	1	24	34231	1	KED
Zn	66	72.745	ug/L	1.700	2	39	34445	1	KED
Zn	67	81.447	ug/L	0.253	0	7	6268	1	KED
As	75	3.536	ug/L	0.087	2	1	867	2	KED
Se	78	0.855	ug/L	0.116	13	10	29	7	KED
Y	89		ug/L			195179	311443	1	Standard
Kr	83		ug/L			45	162	6	Standard
> In-1	115		ug/L			5535	5452	2	KED
Cd	111	0.093	ug/L	0.036	39	2	26	34	KED
Cd	114	0.107	ug/L	0.016	15	4	74	12	KED
> In	115		ug/L			336436	311619	0	Standard
Sb	121	0.006	ug/L	0.001	10	106	173	5	Standard
Sb	123	0.008	ug/L	0.002	22	84	159	11	Standard
> Tb	159		ug/L			839162	801296	0	Standard
Tl	205	0.108	ug/L	0.003	2	147	5904	2	Standard
Pb	208	7.066	ug/L	0.119	1	395	485063	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0236-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 03:32:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23541	58693	2	Standard
Cl	37		ug/L			7538378	8096674	2	Standard
Sc	45		ug/L			352268	457233	0	Standard
Cr	52	37.502	ug/L	0.827	2	14259	749295	1	Standard
Cr	53	38.496	ug/L	1.107	2	286	89223	2	Standard
Mn	55	453.859	ug/L	1.834	0	1072	13013505	0	Standard
Ge	72		ug/L			23157	23068	0	KED
Ni	60	35.687	ug/L	0.460	1	12	47893	1	KED
Ni	62	36.235	ug/L	0.715	1	1	8105	2	KED
Cu	63	16.217	ug/L	0.431	2	48	64372	2	KED
Cu	65	16.187	ug/L	0.426	2	24	32492	1	KED
Zn	66	69.700	ug/L	0.600	0	39	32768	1	KED
Zn	67	79.384	ug/L	1.037	1	7	6064	1	KED
As	75	3.245	ug/L	0.072	2	1	790	1	KED
Se	78	0.470	ug/L	0.095	20	10	20	9	KED
Y	89		ug/L			195179	302546	2	Standard
Kr	83		ug/L			45	154	7	Standard
In-1	115		ug/L			5535	5317	0	KED
Cd	111	0.086	ug/L	0.009	9	2	24	8	KED
Cd	114	0.113	ug/L	0.033	29	4	77	28	KED
In	115		ug/L			336436	310488	0	Standard
Sb	121	0.008	ug/L	0.002	22	106	202	11	Standard
Sb	123	0.007	ug/L	0.001	16	84	149	7	Standard
Tb	159		ug/L			839162	807647	3	Standard
Tl	205	0.100	ug/L	0.006	5	147	5539	3	Standard
Pb	208	6.667	ug/L	0.162	2	395	461123	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0236-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 03:37:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23541	50576	1	Standard
Cl	37		ug/L			7538378	8123975	2	Standard
> Sc	45		ug/L			352268	466977	1	Standard
Cr	52	58.500	ug/L	0.850	1	14259	1183160	1	Standard
Cr	53	58.195	ug/L	0.600	1	286	137571	1	Standard
Mn	55	533.268	ug/L	7.996	1	1072	15615291	1	Standard
> Ge	72		ug/L			23157	23112	1	KED
Ni	60	60.005	ug/L	0.852	1	12	80663	1	KED
Ni	62	60.587	ug/L	1.116	1	1	13575	1	KED
Cu	63	39.329	ug/L	0.157	0	48	156365	1	KED
Cu	65	39.739	ug/L	0.876	2	24	79901	2	KED
Zn	66	148.658	ug/L	2.886	1	39	69965	0	KED
Zn	67	152.921	ug/L	5.409	3	7	11694	2	KED
As	75	25.521	ug/L	0.132	0	1	6222	1	KED
Se	78	69.785	ug/L	2.078	2	10	1552	3	KED
Y	89		ug/L			195179	313469	0	Standard
Kr	83		ug/L			45	152	6	Standard
> In-1	115		ug/L			5535	5480	1	KED
Cd	111	24.021	ug/L	0.482	2	2	6158	2	KED
Cd	114	24.083	ug/L	0.415	1	4	15921	1	KED
> In	115		ug/L			336436	313784	2	Standard
Sb	121	0.008	ug/L	0.002	26	106	199	14	Standard
Sb	123	0.010	ug/L	0.000	4	84	182	3	Standard
> Tb	159		ug/L			839162	814392	1	Standard
Tl	205	23.824	ug/L	0.507	2	147	1296354	1	Standard
Pb	208	32.147	ug/L	0.664	2	395	2241360	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLF
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 03:41:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23541	24099	2	Standard
	Cl	**37**		ug/L			7538378	7809177	3	Standard
⌈>	**Sc**	**45**		ug/L			352268	348150	1	Standard
|	**Cr**	**52**	**0.034**	ug/L	0.033	96	14259	14592	2	Standard
|	**Cr**	**53**	**-0.054**	ug/L	0.005	9	286	187	4	Standard
⌊	**Mn**	**55**	**-0.007**	ug/L	0.001	20	1072	908	2	Standard
⌈>	**Ge**	**72**		ug/L			23157	22676	3	KED
|	**Ni**	**60**	**0.005**	ug/L	0.002	45	12	19	20	KED
|	**Ni**	**62**	**0.006**	ug/L	0.013	222	1	2	114	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.001	28	48	33	12	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.003	160	24	20	27	KED
|	**Zn**	**66**	**-0.023**	ug/L	0.014	60	39	27	25	KED
|	**Zn**	**67**	**0.036**	ug/L	0.019	52	7	10	10	KED
|	**As**	**75**	**0.008**	ug/L	0.011	133	1	3	82	KED
⌊	**Se**	**78**	**0.075**	ug/L	0.042	55	10	11	8	KED
	Y	**89**		ug/L			195179	186245	3	Standard
	Kr	**83**		ug/L			45	35	18	Standard
⌈>	**In-1**	**115**		ug/L			5535	5388	2	KED
|	**Cd**	**111**	**0.000**	ug/L	0.007	3983	2	2	66	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.003	95	4	2	90	KED
⌈>	**In**	**115**		ug/L			336436	320362	4	Standard
|	**Sb**	**121**	**-0.005**	ug/L	0.000	4	106	34	11	Standard
⌊	**Sb**	**123**	**-0.005**	ug/L	0.001	22	84	28	41	Standard
⌈>	**Tb**	**159**		ug/L			839162	822522	1	Standard
|	**Tl**	**205**	**-0.001**	ug/L	0.000	15	147	64	20	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	12	395	250	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVD
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 03:46:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			23541	22937	4	Standard
	Cl	37		ug/L			7538378	8195274	3	Standard
>	Sc	45		ug/L			352268	349128	0	Standard
	Cr	52	54.845	ug/L	0.500	0	14259	830246	0	Standard
	Cr	53	55.719	ug/L	0.209	0	286	98494	1	Standard
	Mn	55	55.646	ug/L	1.243	2	1072	1219214	2	Standard
>	Ge	72		ug/L			23157	22796	1	KED
	Ni	60	45.250	ug/L	0.014	0	12	60005	1	KED
	Ni	62	44.404	ug/L	1.225	2	1	9816	3	KED
	Cu	63	44.977	ug/L	0.939	2	48	176359	1	KED
	Cu	65	45.763	ug/L	0.644	1	24	90738	0	KED
	Zn	66	45.633	ug/L	0.274	0	39	21212	0	KED
	Zn	67	47.001	ug/L	0.931	1	7	3550	1	KED
	As	75	49.596	ug/L	0.537	1	1	11924	0	KED
	Se	78	46.978	ug/L	2.366	5	10	1033	3	KED
	Y	89		ug/L			195179	187105	1	Standard
	Kr	83		ug/L			45	41	22	Standard
>	In-1	115		ug/L			5535	5277	1	KED
	Cd	111	50.088	ug/L	0.467	0	2	12362	1	KED
	Cd	114	50.025	ug/L	0.838	1	4	31841	0	KED
>	In	115		ug/L			336436	311509	4	Standard
	Sb	121	52.529	ug/L	2.334	4	106	673301	0	Standard
	Sb	123	52.634	ug/L	2.548	4	84	529461	1	Standard
>	Tb	159		ug/L			839162	811508	1	Standard
	Tl	205	46.074	ug/L	0.482	1	147	2498416	2	Standard
	Pb	208	48.719	ug/L	1.152	2	395	3384133	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBD
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 03:54:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23541	22307	2	Standard
	Cl	**37**		ug/L			7538378	7726218	1	Standard
⌈>	**Sc**	**45**		ug/L			352268	345646	1	Standard
|	**Cr**	**52**	**0.016**	ug/L	0.030	181	14259	14229	2	Standard
|	**Cr**	**53**	**-0.056**	ug/L	0.007	12	286	183	7	Standard
⌊	**Mn**	**55**	**-0.020**	ug/L	0.001	6	1072	611	3	Standard
⌈>	**Ge**	**72**		ug/L			23157	23432	1	KED
|	**Ni**	**60**	**-0.001**	ug/L	0.004	343	12	10	44	KED
|	**Ni**	**62**	**-0.000**	ug/L	0.010	7316	1	1	173	KED
|	**Cu**	**63**	**-0.003**	ug/L	0.001	34	48	36	10	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.001	64	24	20	14	KED
|	**Zn**	**66**	**-0.029**	ug/L	0.004	14	39	26	8	KED
|	**Zn**	**67**	**-0.091**	ug/L	0.014	15	7	0	173	KED
|	**As**	**75**	**0.007**	ug/L	0.001	15	1	3	9	KED
⌊	**Se**	**78**	**-0.001**	ug/L	0.100	18402	10	10	20	KED
	Y	**89**		ug/L			195179	182544	1	Standard
	Kr	**83**		ug/L			45	59	11	Standard
⌈>	**In-1**	**115**		ug/L			5535	5604	1	KED
|	**Cd**	**111**	**0.004**	ug/L	0.006	181	2	3	43	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.005	481	4	5	58	KED
⌈>	**In**	**115**		ug/L			336436	313363	1	Standard
|	**Sb**	**121**	**0.007**	ug/L	0.000	3	106	191	1	Standard
⌊	**Sb**	**123**	**0.004**	ug/L	0.001	19	84	122	6	Standard
⌈>	**Tb**	**159**		ug/L			839162	810535	1	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	28	147	196	8	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.000	7	395	203	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0126-08
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 03:59:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23541	59748	2	Standard
Cl	37		ug/L			7538378	8010251	2	Standard
> Sc	45		ug/L			352268	450104	0	Standard
Cr	52	26.651	ug/L	0.324	1	14259	529523	1	Standard
Cr	53	26.870	ug/L	0.281	1	286	61424	1	Standard
Mn	55	421.718	ug/L	6.600	1	1072	11904466	2	Standard
> Ge	72		ug/L			23157	23580	0	KED
Ni	60	29.870	ug/L	0.671	2	12	40976	2	KED
Ni	62	29.873	ug/L	0.237	0	1	6830	0	KED
Cu	63	13.250	ug/L	0.173	1	48	53778	1	KED
Cu	65	13.187	ug/L	0.208	1	24	27066	1	KED
Zn	66	56.366	ug/L	0.999	1	39	27095	1	KED
Zn	67	62.610	ug/L	1.016	1	7	4890	1	KED
As	75	4.386	ug/L	0.116	2	1	1092	2	KED
Se	78	0.448	ug/L	0.090	20	10	20	9	KED
Y	89		ug/L			195179	288807	1	Standard
Kr	83		ug/L			45	161	12	Standard
> In-1	115		ug/L			5535	5464	1	KED
Cd	111	0.164	ug/L	0.015	8	2	44	7	KED
Cd	114	0.189	ug/L	0.035	18	4	129	18	KED
> In	115		ug/L			336436	317338	0	Standard
Sb	121	0.017	ug/L	0.002	11	106	322	7	Standard
Sb	123	0.019	ug/L	0.002	11	84	271	8	Standard
> Tb	159		ug/L			839162	826773	0	Standard
Tl	205	0.064	ug/L	0.001	1	147	3690	2	Standard
Pb	208	7.619	ug/L	0.048	0	395	539640	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0126-09
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 04:03:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23541	54110	1	Standard
	Cl	**37**		ug/L			7538378	7948127	0	Standard
⌈>	**Sc**	**45**		ug/L			352268	429676	0	Standard
|	**Cr**	**52**	**32.043**	ug/L	0.898	2	14259	604122	1	Standard
|	**Cr**	**53**	**31.894**	ug/L	0.657	2	286	69527	1	Standard
⌊	**Mn**	**55**	**334.503**	ug/L	1.378	0	1072	9013518	0	Standard
⌈>	**Ge**	**72**		ug/L			23157	23136	0	KED
|	**Ni**	**60**	**32.328**	ug/L	0.514	1	12	43511	1	KED
|	**Ni**	**62**	**31.937**	ug/L	0.323	1	1	7164	0	KED
|	**Cu**	**63**	**13.033**	ug/L	0.102	0	48	51900	0	KED
|	**Cu**	**65**	**13.231**	ug/L	0.092	0	24	26645	0	KED
|	**Zn**	**66**	**45.660**	ug/L	0.702	1	39	21543	1	KED
|	**Zn**	**67**	**49.855**	ug/L	1.059	2	7	3822	2	KED
|	**As**	**75**	**3.004**	ug/L	0.041	1	1	734	1	KED
⌊	**Se**	**78**	**0.568**	ug/L	0.244	42	10	22	23	KED
	Y	**89**		ug/L			195179	273262	3	Standard
	Kr	**83**		ug/L			45	154	12	Standard
⌈>	**In-1**	**115**		ug/L			5535	5587	0	KED
|	**Cd**	**111**	**0.110**	ug/L	0.015	13	2	31	12	KED
⌊	**Cd**	**114**	**0.095**	ug/L	0.011	11	4	68	10	KED
⌈>	**In**	**115**		ug/L			336436	314980	0	Standard
|	**Sb**	**121**	**0.017**	ug/L	0.002	9	106	323	6	Standard
⌊	**Sb**	**123**	**0.015**	ug/L	0.001	7	84	235	4	Standard
⌈>	**Tb**	**159**		ug/L			839162	817435	0	Standard
|	**Tl**	**205**	**0.065**	ug/L	0.001	1	147	3681	0	Standard
⌊	**Pb**	**208**	**5.123**	ug/L	0.122	2	395	358872	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0126-10
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 04:08:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23541	55273	2	Standard
Cl	37		ug/L			7538378	8190964	1	Standard
> Sc	45		ug/L			352268	480448	1	Standard
Cr	52	41.168	ug/L	0.722	1	14259	862562	2	Standard
Cr	53	40.143	ug/L	0.520	1	286	97761	2	Standard
Mn	55	722.374	ug/L	12.507	1	1072	21765682	2	Standard
> Ge	72		ug/L			23157	23092	1	KED
Ni	60	39.336	ug/L	0.596	1	12	52836	1	KED
Ni	62	39.300	ug/L	0.872	2	1	8798	1	KED
Cu	63	21.582	ug/L	0.493	2	48	85732	1	KED
Cu	65	21.669	ug/L	0.337	1	24	43534	1	KED
Zn	66	60.402	ug/L	0.927	1	39	28426	0	KED
Zn	67	68.488	ug/L	0.995	1	7	5239	2	KED
As	75	7.652	ug/L	0.121	1	1	1864	1	KED
Se	78	0.618	ug/L	0.118	19	10	24	12	KED
Y	89		ug/L			195179	305381	1	Standard
Kr	83		ug/L			45	147	11	Standard
> In-1	115		ug/L			5535	5487	3	KED
Cd	111	0.226	ug/L	0.024	10	2	60	11	KED
Cd	114	0.225	ug/L	0.041	18	4	153	16	KED
> In	115		ug/L			336436	319529	0	Standard
Sb	121	0.018	ug/L	0.001	7	106	335	6	Standard
Sb	123	0.019	ug/L	0.002	9	84	280	5	Standard
> Tb	159		ug/L			839162	798135	0	Standard
Tl	205	0.110	ug/L	0.002	2	147	6016	1	Standard
Pb	208	16.330	ug/L	0.150	0	395	1116168	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0126-11
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 04:13:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23541	67903	3	Standard
Cl	37		ug/L			7538378	8171107	1	Standard
> Sc	45		ug/L			352268	479428	0	Standard
Cr	52	34.924	ug/L	0.551	1	14259	733076	1	Standard
Cr	53	35.104	ug/L	0.651	1	286	85349	1	Standard
Mn	55	732.397	ug/L	2.206	0	1072	22018393	0	Standard
> Ge	72		ug/L			23157	23186	1	KED
Ni	60	38.558	ug/L	0.915	2	12	52006	2	KED
Ni	62	39.261	ug/L	0.226	0	1	8826	0	KED
Cu	63	25.511	ug/L	0.182	0	48	101771	1	KED
Cu	65	26.151	ug/L	0.131	0	24	52752	0	KED
Zn	66	65.185	ug/L	0.204	0	39	30804	1	KED
Zn	67	73.444	ug/L	1.182	1	7	5640	2	KED
As	75	11.487	ug/L	0.183	1	1	2810	2	KED
Se	78	0.693	ug/L	0.104	14	10	25	8	KED
Y	89		ug/L			195179	318997	0	Standard
Kr	83		ug/L			45	148	6	Standard
> In-1	115		ug/L			5535	5270	1	KED
Cd	111	0.380	ug/L	0.048	12	2	96	13	KED
Cd	114	0.367	ug/L	0.028	7	4	237	6	KED
> In	115		ug/L			336436	316127	0	Standard
Sb	121	0.048	ug/L	0.005	10	106	729	8	Standard
Sb	123	0.046	ug/L	0.004	8	84	553	7	Standard
> Tb	159		ug/L			839162	818046	2	Standard
Tl	205	0.110	ug/L	0.002	1	147	6142	2	Standard
Pb	208	30.074	ug/L	0.562	1	395	2106028	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0126-12
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 04:17:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23541	58430	1	Standard
Cl	37		ug/L			7538378	8184922	1	Standard
> Sc	45		ug/L			352268	529237	0	Standard
Cr	52	39.927	ug/L	0.729	1	14259	922104	2	Standard
Cr	53	39.933	ug/L	0.422	1	286	107127	1	Standard
Mn	55	486.815	ug/L	3.495	0	1072	16156506	0	Standard
> Ge	72		ug/L			23157	23494	0	KED
Ni	60	53.996	ug/L	0.177	0	12	73795	1	KED
Ni	62	54.135	ug/L	0.800	1	1	12331	0	KED
Cu	63	32.310	ug/L	1.011	3	48	130565	2	KED
Cu	65	32.893	ug/L	0.443	1	24	67225	0	KED
Zn	66	54.706	ug/L	1.380	2	39	26199	1	KED
Zn	67	60.569	ug/L	0.411	0	7	4714	0	KED
As	75	6.134	ug/L	0.176	2	1	1521	2	KED
Se	78	1.277	ug/L	0.077	6	10	39	4	KED
Y	89		ug/L			195179	495829	1	Standard
Kr	83		ug/L			45	163	16	Standard
> In-1	115		ug/L			5535	5547	1	KED
Cd	111	0.119	ug/L	0.013	10	2	33	11	KED
Cd	114	0.090	ug/L	0.013	14	4	65	11	KED
> In	115		ug/L			336436	304987	1	Standard
Sb	121	0.010	ug/L	0.001	11	106	216	6	Standard
Sb	123	0.009	ug/L	0.002	19	84	164	11	Standard
> Tb	159		ug/L			839162	807357	1	Standard
Tl	205	0.109	ug/L	0.005	4	147	6003	3	Standard
Pb	208	7.561	ug/L	0.098	1	395	522986	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0126-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 04:22:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23541	65492	3	Standard
Cl	37		ug/L			7538378	8091836	0	Standard
> Sc	45		ug/L			352268	491465	2	Standard
Cr	52	40.996	ug/L	0.428	1	14259	878601	1	Standard
Cr	53	41.684	ug/L	0.807	1	286	103799	0	Standard
Mn	55	2039.031	ug/L	58.950	2	1072	62858576	4	Standard
> Ge	72		ug/L			23157	22920	0	KED
Ni	60	46.960	ug/L	0.671	1	12	62607	0	KED
Ni	62	46.471	ug/L	1.085	2	1	10326	1	KED
Cu	63	26.554	ug/L	0.248	0	48	104714	1	KED
Cu	65	27.286	ug/L	0.422	1	24	54415	2	KED
Zn	66	73.973	ug/L	0.526	0	39	34549	0	KED
Zn	67	84.476	ug/L	2.300	2	7	6411	2	KED
As	75	10.066	ug/L	0.049	0	1	2434	0	KED
Se	78	1.032	ug/L	0.191	18	10	32	13	KED
Y	89		ug/L			195179	423432	1	Standard
Kr	83		ug/L			45	157	7	Standard
> In-1	115		ug/L			5535	5342	2	KED
Cd	111	0.334	ug/L	0.027	7	2	86	8	KED
Cd	114	0.353	ug/L	0.035	9	4	232	10	KED
> In	115		ug/L			336436	299809	1	Standard
Sb	121	0.041	ug/L	0.006	14	106	601	11	Standard
Sb	123	0.038	ug/L	0.003	7	84	447	7	Standard
> Tb	159		ug/L			839162	764168	2	Standard
Tl	205	0.129	ug/L	0.002	1	147	6712	0	Standard
Pb	208	22.294	ug/L	0.667	2	395	1458297	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0126-14
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 04:27:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23541	57470	3	Standard
Cl	37		ug/L			7538378	8123711	1	Standard
> Sc	45		ug/L			352268	479149	2	Standard
Cr	52	39.090	ug/L	1.111	2	14259	817336	0	Standard
Cr	53	39.544	ug/L	0.336	0	286	96041	2	Standard
Mn	55	1668.092	ug/L	21.717	1	1072	50108086	1	Standard
> Ge	72		ug/L			23157	23040	1	KED
Ni	60	41.322	ug/L	0.994	2	12	55369	1	KED
Ni	62	41.645	ug/L	0.490	1	1	9302	0	KED
Cu	63	22.314	ug/L	0.436	1	48	88438	0	KED
Cu	65	22.635	ug/L	1.065	4	24	45353	3	KED
Zn	66	64.143	ug/L	0.704	1	39	30120	1	KED
Zn	67	71.622	ug/L	2.189	3	7	5465	3	KED
As	75	6.781	ug/L	0.144	2	1	1648	1	KED
Se	78	0.954	ug/L	0.257	26	10	31	18	KED
Y	89		ug/L			195179	353599	0	Standard
Kr	83		ug/L			45	154	13	Standard
> In-1	115		ug/L			5535	5191	5	KED
Cd	111	0.301	ug/L	0.051	16	2	75	11	KED
Cd	114	0.283	ug/L	0.055	19	4	180	15	KED
> In	115		ug/L			336436	299772	1	Standard
Sb	121	0.010	ug/L	0.003	28	106	216	15	Standard
Sb	123	0.011	ug/L	0.001	4	84	177	2	Standard
> Tb	159		ug/L			839162	777105	2	Standard
Tl	205	0.116	ug/L	0.002	1	147	6146	1	Standard
Pb	208	14.481	ug/L	0.452	3	395	963165	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0126-15
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 04:31:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23541	61988	3	Standard
Cl	37		ug/L			7538378	8041756	2	Standard
> Sc	45		ug/L			352268	454056	2	Standard
Cr	52	**34.141**	ug/L	1.401	4	14259	678634	1	Standard
Cr	53	**34.259**	ug/L	1.100	3	286	78857	0	Standard
Mn	55	**654.870**	ug/L	25.904	3	1072	18633283	1	Standard
> Ge	72		ug/L			23157	22685	0	KED
Ni	60	**36.002**	ug/L	0.817	2	12	47515	2	KED
Ni	62	**36.024**	ug/L	0.672	1	1	7924	2	KED
Cu	63	**22.129**	ug/L	0.186	0	48	86378	1	KED
Cu	65	**22.471**	ug/L	0.171	0	24	44354	0	KED
Zn	66	**67.328**	ug/L	0.627	0	39	31129	1	KED
Zn	67	**76.563**	ug/L	1.265	1	7	5752	1	KED
As	75	**9.328**	ug/L	0.016	0	1	2233	0	KED
Se	78	**0.735**	ug/L	0.299	40	10	26	24	KED
Y	89		ug/L			195179	303711	1	Standard
Kr	83		ug/L			45	134	10	Standard
> In-1	115		ug/L			5535	5326	1	KED
Cd	111	**0.287**	ug/L	0.037	12	2	74	13	KED
Cd	114	**0.285**	ug/L	0.018	6	4	187	4	KED
> In	115		ug/L			336436	310420	3	Standard
Sb	121	**0.025**	ug/L	0.002	7	106	419	6	Standard
Sb	123	**0.025**	ug/L	0.005	20	84	324	13	Standard
> Tb	159		ug/L			839162	802297	0	Standard
Tl	205	**0.098**	ug/L	0.002	2	147	5370	1	Standard
Pb	208	**21.250**	ug/L	0.170	0	395	1459862	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0126-16
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 04:36:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23541	66770	2	Standard
Cl	37		ug/L			7538378	8025243	3	Standard
> Sc	45		ug/L			352268	457781	1	Standard
Cr	52	34.391	ug/L	0.565	1	14259	689474	0	Standard
Cr	53	34.669	ug/L	0.086	0	286	80496	1	Standard
Mn	55	949.799	ug/L	3.785	0	1072	27264109	1	Standard
> Ge	72		ug/L			23157	23012	0	KED
Ni	60	36.662	ug/L	0.504	1	12	49076	0	KED
Ni	62	37.421	ug/L	0.152	0	1	8350	1	KED
Cu	63	24.422	ug/L	0.466	1	48	96686	1	KED
Cu	65	24.874	ug/L	0.143	0	24	49801	0	KED
Zn	66	65.490	ug/L	0.502	0	39	30715	1	KED
Zn	67	73.699	ug/L	1.647	2	7	5617	3	KED
As	75	10.836	ug/L	0.154	1	1	2631	0	KED
Se	78	0.850	ug/L	0.112	13	10	29	8	KED
Y	89		ug/L			195179	324647	3	Standard
Kr	83		ug/L			45	133	7	Standard
> In-1	115		ug/L			5535	5359	1	KED
Cd	111	0.355	ug/L	0.024	6	2	91	5	KED
Cd	114	0.335	ug/L	0.033	9	4	221	8	KED
> In	115		ug/L			336436	307258	2	Standard
Sb	121	0.043	ug/L	0.003	7	106	646	3	Standard
Sb	123	0.045	ug/L	0.004	9	84	521	9	Standard
> Tb	159		ug/L			839162	803497	1	Standard
Tl	205	0.096	ug/L	0.002	2	147	5308	2	Standard
Pb	208	28.143	ug/L	0.699	2	395	1935988	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLG
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 04:41:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23541	24085	1	Standard
	Cl	**37**		ug/L			7538378	7683396	2	Standard
⌈>	**Sc**	**45**		ug/L			352268	328654	9	Standard
|	**Cr**	**52**	**0.056**	ug/L	0.055	99	14259	14036	3	Standard
|	**Cr**	**53**	**-0.042**	ug/L	0.007	16	286	196	4	Standard
⌊	**Mn**	**55**	**0.015**	ug/L	0.005	34	1072	1306	13	Standard
⌈>	**Ge**	**72**		ug/L			23157	23073	0	KED
|	**Ni**	**60**	**0.008**	ug/L	0.007	93	12	22	43	KED
|	**Ni**	**62**	**0.017**	ug/L	0.013	76	1	5	57	KED
|	**Cu**	**63**	**0.001**	ug/L	0.002	201	48	52	17	KED
|	**Cu**	**65**	**0.002**	ug/L	0.004	169	24	28	26	KED
|	**Zn**	**66**	**-0.028**	ug/L	0.006	21	39	26	11	KED
|	**Zn**	**67**	**-0.041**	ug/L	0.029	70	7	4	49	KED
|	**As**	**75**	**0.010**	ug/L	0.005	49	1	3	33	KED
⌊	**Se**	**78**	**0.057**	ug/L	0.133	231	10	11	24	KED
	Y	**89**		ug/L			195179	175517	8	Standard
	Kr	**83**		ug/L			45	52	11	Standard
⌈>	**In-1**	**115**		ug/L			5535	5324	1	KED
|	**Cd**	**111**	**0.009**	ug/L	0.002	21	2	5	10	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.003	163	4	3	50	KED
⌈>	**In**	**115**		ug/L			336436	301244	7	Standard
|	**Sb**	**121**	**-0.005**	ug/L	0.000	6	106	34	8	Standard
⌊	**Sb**	**123**	**-0.004**	ug/L	0.001	14	84	31	21	Standard
⌈>	**Tb**	**159**		ug/L			839162	786948	7	Standard
|	**Tl**	**205**	**-0.002**	ug/L	0.000	6	147	47	4	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	12	395	252	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 04:46:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23541	22598	1	Standard
	Cl	**37**		ug/L			7538378	8176805	2	Standard
>	**Sc**	**45**		ug/L			352268	342664	2	Standard
	Cr	**52**	**56.026**	ug/L	0.954	1	14259	831911	0	Standard
	Cr	**53**	**56.424**	ug/L	0.215	0	286	97882	2	Standard
	Mn	**55**	**56.013**	ug/L	2.114	3	1072	1203917	2	Standard
>	**Ge**	**72**		ug/L			23157	22402	3	KED
	Ni	**60**	**44.947**	ug/L	0.982	2	12	58557	2	KED
	Ni	**62**	**44.687**	ug/L	0.949	2	1	9704	2	KED
	Cu	**63**	**45.034**	ug/L	0.808	1	48	173476	1	KED
	Cu	**65**	**46.002**	ug/L	1.469	3	24	89591	1	KED
	Zn	**66**	**46.312**	ug/L	1.157	2	39	21145	0	KED
	Zn	**67**	**48.036**	ug/L	1.641	3	7	3565	3	KED
	As	**75**	**49.576**	ug/L	0.614	1	1	11711	1	KED
	Se	**78**	**47.645**	ug/L	0.877	1	10	1030	3	KED
	Y	**89**		ug/L			195179	183259	3	Standard
	Kr	**83**		ug/L			45	48	34	Standard
>	**In-1**	**115**		ug/L			5535	5194	2	KED
	Cd	**111**	**50.271**	ug/L	1.335	2	2	12208	0	KED
	Cd	**114**	**50.161**	ug/L	1.116	2	4	31420	0	KED
>	**In**	**115**		ug/L			336436	299253	3	Standard
	Sb	**121**	**54.573**	ug/L	1.719	3	106	672395	0	Standard
	Sb	**123**	**52.750**	ug/L	2.707	5	84	509883	1	Standard
>	**Tb**	**159**		ug/L			839162	805900	1	Standard
	Tl	**205**	**46.367**	ug/L	0.761	1	147	2496473	0	Standard
	Pb	**208**	**48.419**	ug/L	1.030	2	395	3340247	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 04:53:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23541	21832	1	Standard
	Cl	**37**		ug/L			7538378	7723917	2	Standard
⌈>	**Sc**	**45**		ug/L			352268	342733	0	Standard
|	**Cr**	**52**	**0.042**	ug/L	0.016	37	14259	14487	1	Standard
|	**Cr**	**53**	**-0.056**	ug/L	0.004	8	286	182	3	Standard
⌊	**Mn**	**55**	**-0.018**	ug/L	0.000	2	1072	646	1	Standard
⌈>	**Ge**	**72**		ug/L			23157	23000	3	KED
|	**Ni**	**60**	**-0.005**	ug/L	0.000	3	12	5	0	KED
|	**Ni**	**62**	**0.008**	ug/L	0.009	111	1	3	69	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.002	119	48	41	16	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.002	70	24	17	22	KED
|	**Zn**	**66**	**-0.027**	ug/L	0.013	48	39	26	25	KED
|	**Zn**	**67**	**-0.017**	ug/L	0.061	350	7	6	75	KED
|	**As**	**75**	**0.006**	ug/L	0.007	104	1	2	60	KED
⌊	**Se**	**78**	**0.018**	ug/L	0.066	363	10	10	16	KED
	Y	**89**		ug/L			195179	183001	0	Standard
	Kr	**83**		ug/L			45	36	13	Standard
⌈>	**In-1**	**115**		ug/L			5535	5500	3	KED
|	**Cd**	**111**	**0.010**	ug/L	0.006	60	2	5	26	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.003	112	4	3	69	KED
⌈>	**In**	**115**		ug/L			336436	316972	2	Standard
|	**Sb**	**121**	**0.008**	ug/L	0.000	4	106	200	2	Standard
⌊	**Sb**	**123**	**0.008**	ug/L	0.000	4	84	156	5	Standard
⌈>	**Tb**	**159**		ug/L			839162	812405	1	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	38	147	179	7	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.001	29	395	212	23	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 04:58:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				21279	1	Standard
	Cl	**37**		ug/L				7668033	1	Standard
⎡>	**Sc**	**45**		ug/L				335348	1	Standard
⎢	**Cr**	**52**		ug/L				13974	0	Standard
⎢	**Cr**	**53**		ug/L				180	7	Standard
⎣	**Mn**	**55**		ug/L				831	2	Standard
⎡>	**Ge**	**72**		ug/L				22938	0	KED
⎢	**Ni**	**60**		ug/L				14	41	KED
⎢	**Ni**	**62**		ug/L				3	50	KED
⎢	**Cu**	**63**		ug/L				48	9	KED
⎢	**Cu**	**65**		ug/L				30	10	KED
⎢	**Zn**	**66**		ug/L				42	13	KED
⎢	**Zn**	**67**		ug/L				4	24	KED
⎢	**As**	**75**		ug/L				4	43	KED
⎣	**Se**	**78**		ug/L				9	0	KED
	Y	**89**		ug/L				181698	2	Standard
	Kr	**83**		ug/L				48	42	Standard
⎡>	**In-1**	**115**		ug/L				5567	2	KED
⎢	**Cd**	**111**		ug/L				5	10	KED
⎣	**Cd**	**114**		ug/L				4	51	KED
⎡>	**In**	**115**		ug/L				308178	0	Standard
⎢	**Sb**	**121**		ug/L				100	19	Standard
⎣	**Sb**	**123**		ug/L				80	5	Standard
⎡>	**Tb**	**159**		ug/L				813940	0	Standard
⎢	**Tl**	**205**		ug/L				100	7	Standard
⎣	**Pb**	**208**		ug/L				382	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVF
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 05:03:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			21279	23540	3	Standard
	Cl	37		ug/L			7668033	8277573	1	Standard
>	Sc	45		ug/L			335348	355667	1	Standard
	Cr	52	54.752	ug/L	1.062	1	13974	844670	0	Standard
	Cr	53	55.317	ug/L	0.162	0	180	99518	1	Standard
	Mn	55	56.311	ug/L	0.876	1	831	1256830	2	Standard
>	Ge	72		ug/L			22938	22668	1	KED
	Ni	60	44.483	ug/L	0.376	0	14	58654	0	KED
	Ni	62	44.647	ug/L	1.134	2	3	9816	2	KED
	Cu	63	45.021	ug/L	0.700	1	48	175527	1	KED
	Cu	65	45.355	ug/L	0.330	0	30	89444	2	KED
	Zn	66	46.078	ug/L	0.408	0	42	21301	0	KED
	Zn	67	46.877	ug/L	0.929	1	4	3518	1	KED
	As	75	49.686	ug/L	0.839	1	4	11881	0	KED
	Se	78	48.514	ug/L	1.702	3	9	1059	2	KED
	Y	89		ug/L			181698	190047	2	Standard
	Kr	83		ug/L			48	53	9	Standard
>	In-1	115		ug/L			5567	5454	1	KED
	Cd	111	48.454	ug/L	1.305	2	5	12360	1	KED
	Cd	114	48.448	ug/L	0.128	0	4	31876	1	KED
>	In	115		ug/L			308178	313734	2	Standard
	Sb	121	53.347	ug/L	1.115	2	100	689353	0	Standard
	Sb	123	52.263	ug/L	1.075	2	80	530085	1	Standard
>	Tb	159		ug/L			813940	813474	1	Standard
	Tl	205	46.121	ug/L	0.864	1	100	2506480	0	Standard
	Pb	208	49.264	ug/L	1.055	2	382	3430438	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBF
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 05:10:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	22357	0	Standard
	Cl	**37**		ug/L			7668033	7852872	0	Standard
⌈>	**Sc**	**45**		ug/L			335348	342626	0	Standard
|	**Cr**	**52**	**-0.001**	ug/L	0.019	1447	13974	14258	2	Standard
|	**Cr**	**53**	**0.002**	ug/L	0.002	149	180	187	2	Standard
⌊	**Mn**	**55**	**-0.011**	ug/L	0.002	18	831	616	7	Standard
⌈>	**Ge**	**72**		ug/L			22938	23051	2	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.001	12	14	6	17	KED
|	**Ni**	**62**	**-0.006**	ug/L	0.013	240	3	2	114	KED
|	**Cu**	**63**	**-0.005**	ug/L	0.002	41	48	27	32	KED
|	**Cu**	**65**	**-0.005**	ug/L	0.003	63	30	21	28	KED
|	**Zn**	**66**	**-0.044**	ug/L	0.005	12	42	22	13	KED
|	**Zn**	**67**	**-0.009**	ug/L	0.024	272	4	3	50	KED
|	**As**	**75**	**-0.005**	ug/L	0.007	134	4	3	56	KED
⌊	**Se**	**78**	**0.060**	ug/L	0.143	238	9	10	31	KED
	Y	**89**		ug/L			181698	185452	1	Standard
	Kr	**83**		ug/L			48	47	18	Standard
⌈>	**In-1**	**115**		ug/L			5567	5507	3	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.003	77	5	4	12	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.002	55	4	2	48	KED
⌈>	**In**	**115**		ug/L			308178	320715	1	Standard
|	**Sb**	**121**	**0.009**	ug/L	0.001	12	100	222	5	Standard
⌊	**Sb**	**123**	**0.008**	ug/L	0.001	12	80	163	5	Standard
⌈>	**Tb**	**159**		ug/L			813940	814666	2	Standard
|	**Tl**	**205**	**0.003**	ug/L	0.000	16	100	251	9	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	4	382	212	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0490-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 05:15:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	35832	2	Standard
	Cl	**37**		ug/L			7668033	7962471	2	Standard
⌈>	**Sc**	**45**		ug/L			335348	368874	1	Standard
|	**Cr**	**52**	**0.388**	ug/L	0.032	8	13974	21465	0	Standard
|	**Cr**	**53**	**0.646**	ug/L	0.014	2	180	1401	1	Standard
⌊	**Mn**	**55**	**4.175**	ug/L	0.139	3	831	97459	2	Standard
⌈>	**Ge**	**72**		ug/L			22938	22648	1	KED
|	**Ni**	**60**	**0.858**	ug/L	0.047	5	14	1144	6	KED
|	**Ni**	**62**	**0.860**	ug/L	0.054	6	3	192	4	KED
|	**Cu**	**63**	**12.708**	ug/L	0.255	2	48	49537	2	KED
|	**Cu**	**65**	**12.819**	ug/L	0.199	1	30	25273	0	KED
|	**Zn**	**66**	**21.144**	ug/L	0.558	2	42	9786	1	KED
|	**Zn**	**67**	**19.480**	ug/L	0.069	0	4	1463	1	KED
|	**As**	**75**	**0.022**	ug/L	0.004	19	4	9	10	KED
⌊	**Se**	**78**	**0.138**	ug/L	0.079	57	9	12	13	KED
	Y	**89**		ug/L			181698	193014	1	Standard
	Kr	**83**		ug/L			48	47	16	Standard
⌈>	**In-1**	**115**		ug/L			5567	5565	0	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.004	56	5	3	31	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.006	944	4	4	81	KED
⌈>	**In**	**115**		ug/L			308178	326054	2	Standard
|	**Sb**	**121**	**0.014**	ug/L	0.002	11	100	293	9	Standard
⌊	**Sb**	**123**	**0.013**	ug/L	0.001	6	80	221	4	Standard
⌈>	**Tb**	**159**		ug/L			813940	838455	2	Standard
|	**Tl**	**205**	**0.005**	ug/L	0.001	11	100	379	8	Standard
⌊	**Pb**	**208**	**0.208**	ug/L	0.008	4	382	15325	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0482-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 05:20:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	37192	4	Standard
	Cl	**37**		ug/L			7668033	7771736	2	Standard
⌈>	**Sc**	**45**		ug/L			335348	346464	1	Standard
|	**Cr**	**52**	**1.103**	ug/L	0.085	7	13974	30712	2	Standard
|	**Cr**	**53**	**1.163**	ug/L	0.017	1	180	2221	2	Standard
⌊	**Mn**	**55**	**3.095**	ug/L	0.045	1	831	68085	0	Standard
⌈>	**Ge**	**72**		ug/L			22938	22979	0	KED
|	**Ni**	**60**	**0.225**	ug/L	0.040	17	14	315	16	KED
|	**Ni**	**62**	**0.205**	ug/L	0.060	29	3	49	27	KED
|	**Cu**	**63**	**2.105**	ug/L	0.027	1	48	8367	1	KED
|	**Cu**	**65**	**2.160**	ug/L	0.054	2	30	4346	2	KED
|	**Zn**	**66**	**93.532**	ug/L	1.337	1	42	43788	0	KED
|	**Zn**	**67**	**89.073**	ug/L	2.051	2	4	6773	1	KED
|	**As**	**75**	**2.758**	ug/L	0.053	1	4	672	1	KED
⌊	**Se**	**78**	**0.101**	ug/L	0.148	146	9	11	27	KED
	Y	**89**		ug/L			181698	187215	1	Standard
	Kr	**83**		ug/L			48	52	7	Standard
⌈>	**In-1**	**115**		ug/L			5567	5509	5	KED
|	**Cd**	**111**	**0.094**	ug/L	0.038	40	5	29	28	KED
⌊	**Cd**	**114**	**0.068**	ug/L	0.015	22	4	49	15	KED
⌈>	**In**	**115**		ug/L			308178	322034	1	Standard
|	**Sb**	**121**	**0.520**	ug/L	0.018	3	100	7001	2	Standard
⌊	**Sb**	**123**	**0.506**	ug/L	0.021	4	80	5354	3	Standard
⌈>	**Tb**	**159**		ug/L			813940	832600	2	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	32	100	184	17	Standard
⌊	**Pb**	**208**	**1.613**	ug/L	0.039	2	382	115279	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0483-01
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Wednesday, December 28, 2022 05:25:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	38682	2	Standard
	Cl	**37**		ug/L			7668033	14808880	1	Standard
⌈>	**Sc**	**45**		ug/L			335348	349603	1	Standard
|	**Cr**	**52**	**0.662**	ug/L	0.035	5	13974	24426	2	Standard
|	**Cr**	**53**	**14.602**	ug/L	0.222	1	180	25962	2	Standard
⌊	**Mn**	**55**	**12.783**	ug/L	0.365	2	831	281006	1	Standard
⌈>	**Ge**	**72**		ug/L			22938	21605	1	KED
|	**Ni**	**60**	**0.438**	ug/L	0.047	10	14	563	11	KED
|	**Ni**	**62**	**0.423**	ug/L	0.023	5	3	92	4	KED
|	**Cu**	**63**	**3.283**	ug/L	0.074	2	48	12244	1	KED
|	**Cu**	**65**	**3.337**	ug/L	0.052	1	30	6299	2	KED
|	**Zn**	**66**	**94.060**	ug/L	0.580	0	42	41404	0	KED
|	**Zn**	**67**	**91.443**	ug/L	1.429	1	4	6538	1	KED
|	**As**	**75**	**0.304**	ug/L	0.052	17	4	73	16	KED
⌊	**Se**	**78**	**0.232**	ug/L	0.037	16	9	13	5	KED
	Y	**89**		ug/L			181698	180384	2	Standard
	Kr	**83**		ug/L			48	65	18	Standard
⌈>	**In-1**	**115**		ug/L			5567	5239	1	KED
|	**Cd**	**111**	**0.127**	ug/L	0.039	30	5	36	25	KED
⌊	**Cd**	**114**	**0.130**	ug/L	0.022	16	4	86	16	KED
⌈>	**In**	**115**		ug/L			308178	290149	2	Standard
|	**Sb**	**121**	**0.185**	ug/L	0.006	3	100	2309	4	Standard
⌊	**Sb**	**123**	**0.190**	ug/L	0.008	4	80	1860	5	Standard
⌈>	**Tb**	**159**		ug/L			813940	776308	1	Standard
|	**Tl**	**205**	**0.004**	ug/L	0.000	3	100	303	3	Standard
⌊	**Pb**	**208**	**0.397**	ug/L	0.007	1	382	26737	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0484-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 05:30:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	39814	1	Standard
	Cl	**37**		ug/L			7668033	8310030	1	Standard
⌈>	**Sc**	**45**		ug/L			335348	344810	1	Standard
|	**Cr**	**52**	**0.773**	ug/L	0.054	7	13974	25721	1	Standard
|	**Cr**	**53**	**1.853**	ug/L	0.012	0	180	3411	1	Standard
⌊	**Mn**	**55**	**5.437**	ug/L	0.127	2	831	118379	1	Standard
⌈>	**Ge**	**72**		ug/L			22938	23047	0	KED
|	**Ni**	**60**	**0.326**	ug/L	0.024	7	14	452	7	KED
|	**Ni**	**62**	**0.304**	ug/L	0.020	6	3	71	5	KED
|	**Cu**	**63**	**1.954**	ug/L	0.043	2	48	7791	1	KED
|	**Cu**	**65**	**1.965**	ug/L	0.081	4	30	3968	3	KED
|	**Zn**	**66**	**25.190**	ug/L	0.538	2	42	11859	1	KED
|	**Zn**	**67**	**23.900**	ug/L	0.721	3	4	1826	2	KED
|	**As**	**75**	**0.145**	ug/L	0.012	8	4	39	7	KED
⌊	**Se**	**78**	**0.044**	ug/L	0.056	128	9	10	12	KED
	Y	**89**		ug/L			181698	190017	0	Standard
	Kr	**83**		ug/L			48	40	25	Standard
⌈>	**In-1**	**115**		ug/L			5567	5470	3	KED
|	**Cd**	**111**	**0.013**	ug/L	0.004	28	5	8	11	KED
⌊	**Cd**	**114**	**0.015**	ug/L	0.007	48	4	14	34	KED
⌈>	**In**	**115**		ug/L			308178	302289	2	Standard
|	**Sb**	**121**	**0.143**	ug/L	0.004	2	100	1879	3	Standard
⌊	**Sb**	**123**	**0.136**	ug/L	0.010	7	80	1403	6	Standard
⌈>	**Tb**	**159**		ug/L			813940	809572	1	Standard
|	**Tl**	**205**	**0.007**	ug/L	0.000	6	100	469	3	Standard
⌊	**Pb**	**208**	**1.164**	ug/L	0.032	2	382	81005	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0484-03
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 05:34:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	36206	1	Standard
	Cl	**37**		ug/L			7668033	7943539	1	Standard
⌈>	**Sc**	**45**		ug/L			335348	356629	0	Standard
|	**Cr**	**52**	**0.918**	ug/L	0.064	6	13974	28819	3	Standard
|	**Cr**	**53**	**0.944**	ug/L	0.035	3	180	1892	3	Standard
⌊	**Mn**	**55**	**2.496**	ug/L	0.057	2	831	56691	2	Standard
⌈>	**Ge**	**72**		ug/L			22938	23629	1	KED
|	**Ni**	**60**	**0.143**	ug/L	0.013	9	14	211	8	KED
|	**Ni**	**62**	**0.144**	ug/L	0.038	26	3	36	23	KED
|	**Cu**	**63**	**1.523**	ug/L	0.061	4	48	6236	2	KED
|	**Cu**	**65**	**1.485**	ug/L	0.050	3	30	3082	4	KED
|	**Zn**	**66**	**37.518**	ug/L	1.011	2	42	18082	0	KED
|	**Zn**	**67**	**36.281**	ug/L	0.884	2	4	2840	4	KED
|	**As**	**75**	**0.109**	ug/L	0.023	21	4	31	16	KED
⌊	**Se**	**78**	**0.143**	ug/L	0.099	68	9	12	18	KED
	Y	**89**		ug/L			181698	190621	2	Standard
	Kr	**83**		ug/L			48	52	32	Standard
⌈>	**In-1**	**115**		ug/L			5567	5518	2	KED
|	**Cd**	**111**	**0.006**	ug/L	0.007	116	5	6	28	KED
⌊	**Cd**	**114**	**0.012**	ug/L	0.002	13	4	12	9	KED
⌈>	**In**	**115**		ug/L			308178	320571	2	Standard
|	**Sb**	**121**	**0.252**	ug/L	0.005	2	100	3433	1	Standard
⌊	**Sb**	**123**	**0.245**	ug/L	0.011	4	80	2626	2	Standard
⌈>	**Tb**	**159**		ug/L			813940	820368	2	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	18	100	169	8	Standard
⌊	**Pb**	**208**	**1.299**	ug/L	0.018	1	382	91570	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0484-04
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 05:39:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			21279	31911	2	Standard
	Cl	37		ug/L			7668033	7868142	0	Standard
>	Sc	45		ug/L			335348	351347	0	Standard
	Cr	52	0.380	ug/L	0.004	1	13974	20333	0	Standard
	Cr	53	0.402	ug/L	0.019	4	180	903	4	Standard
	Mn	55	0.456	ug/L	0.008	1	831	10919	1	Standard
>	Ge	72		ug/L			22938	23498	1	KED
	Ni	60	0.025	ug/L	0.007	28	14	49	19	KED
	Ni	62	0.025	ug/L	0.017	69	3	9	40	KED
	Cu	63	0.236	ug/L	0.005	2	48	1003	2	KED
	Cu	65	0.239	ug/L	0.010	4	30	519	3	KED
	Zn	66	16.086	ug/L	0.564	3	42	7735	2	KED
	Zn	67	15.116	ug/L	1.188	7	4	1179	7	KED
	As	75	0.034	ug/L	0.007	19	4	13	13	KED
	Se	78	0.025	ug/L	0.087	353	9	10	20	KED
	Y	89		ug/L			181698	189366	1	Standard
	Kr	83		ug/L			48	54	19	Standard
>	In-1	115		ug/L			5567	5406	1	KED
	Cd	111	-0.003	ug/L	0.008	262	5	4	44	KED
	Cd	114	0.000	ug/L	0.001	562	4	4	22	KED
>	In	115		ug/L			308178	320136	4	Standard
	Sb	121	0.088	ug/L	0.001	1	100	1266	4	Standard
	Sb	123	0.090	ug/L	0.005	5	80	1014	1	Standard
>	Tb	159		ug/L			813940	827017	0	Standard
	Tl	205	0.000	ug/L	0.000	115	100	122	19	Standard
	Pb	208	0.021	ug/L	0.002	8	382	1905	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0484-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 05:44:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			21279	32853	2	Standard
	Cl	37		ug/L			7668033	8234791	1	Standard
>	Sc	45		ug/L			335348	348959	0	Standard
	Cr	52	0.452	ug/L	0.018	4	13974	21258	1	Standard
	Cr	53	1.123	ug/L	0.022	1	180	2166	1	Standard
	Mn	55	1.595	ug/L	0.017	1	831	35758	0	Standard
>	Ge	72		ug/L			22938	23473	2	KED
	Ni	60	0.034	ug/L	0.013	39	14	60	30	KED
	Ni	62	0.050	ug/L	0.031	62	3	15	45	KED
	Cu	63	0.305	ug/L	0.019	6	48	1280	6	KED
	Cu	65	0.308	ug/L	0.022	7	30	659	9	KED
	Zn	66	12.224	ug/L	0.445	3	42	5881	1	KED
	Zn	67	11.664	ug/L	0.824	7	4	909	4	KED
	As	75	0.075	ug/L	0.002	2	4	23	1	KED
	Se	78	0.071	ug/L	0.134	189	9	11	25	KED
	Y	89		ug/L			181698	186787	1	Standard
	Kr	83		ug/L			48	50	17	Standard
>	In-1	115		ug/L			5567	5476	1	KED
	Cd	111	0.000	ug/L	0.002	657	5	5	10	KED
	Cd	114	0.001	ug/L	0.006	394	4	5	73	KED
>	In	115		ug/L			308178	323241	0	Standard
	Sb	121	0.055	ug/L	0.001	2	100	841	2	Standard
	Sb	123	0.051	ug/L	0.002	4	80	614	3	Standard
>	Tb	159		ug/L			813940	830230	0	Standard
	Tl	205	0.004	ug/L	0.000	2	100	325	1	Standard
	Pb	208	0.033	ug/L	0.000	1	382	2701	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0619-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 05:49:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	32894	0	Standard
	Cl	**37**		ug/L			7668033	8103457	3	Standard
⌈>	**Sc**	**45**		ug/L			335348	347096	0	Standard
|	**Cr**	**52**	**0.412**	ug/L	0.031	7	13974	20558	2	Standard
|	**Cr**	**53**	**1.101**	ug/L	0.012	1	180	2116	1	Standard
⌊	**Mn**	**55**	**1.553**	ug/L	0.036	2	831	34672	2	Standard
⌈>	**Ge**	**72**		ug/L			22938	23049	0	KED
|	**Ni**	**60**	**0.045**	ug/L	0.007	16	14	74	14	KED
|	**Ni**	**62**	**0.045**	ug/L	0.005	12	3	13	7	KED
|	**Cu**	**63**	**0.337**	ug/L	0.021	6	48	1386	5	KED
|	**Cu**	**65**	**0.338**	ug/L	0.019	5	30	707	5	KED
|	**Zn**	**66**	**12.220**	ug/L	0.396	3	42	5775	2	KED
|	**Zn**	**67**	**11.652**	ug/L	0.790	6	4	892	6	KED
|	**As**	**75**	**0.072**	ug/L	0.004	6	4	22	5	KED
⌊	**Se**	**78**	**0.021**	ug/L	0.059	283	9	9	14	KED
	Y	**89**		ug/L			181698	188726	3	Standard
	Kr	**83**		ug/L			48	39	11	Standard
⌈>	**In-1**	**115**		ug/L			5567	5569	1	KED
|	**Cd**	**111**	**0.002**	ug/L	0.004	175	5	6	18	KED
⌊	**Cd**	**114**	**0.005**	ug/L	0.001	28	4	7	12	KED
⌈>	**In**	**115**		ug/L			308178	313817	2	Standard
|	**Sb**	**121**	**0.056**	ug/L	0.002	3	100	822	2	Standard
⌊	**Sb**	**123**	**0.052**	ug/L	0.002	4	80	613	4	Standard
⌈>	**Tb**	**159**		ug/L			813940	819200	1	Standard
|	**Tl**	**205**	**0.004**	ug/L	0.001	14	100	340	10	Standard
⌊	**Pb**	**208**	**0.032**	ug/L	0.001	3	382	2654	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0619-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 05:53:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			21279	33970	4	Standard
	Cl	37		ug/L			7668033	8213995	2	Standard
>	Sc	45		ug/L			335348	356470	1	Standard
	Cr	52	28.985	ug/L	0.839	2	13974	455129	2	Standard
	Cr	53	30.111	ug/L	0.968	3	180	54371	2	Standard
	Mn	55	31.074	ug/L	0.982	3	831	695169	1	Standard
>	Ge	72		ug/L			22938	23293	0	KED
	Ni	60	22.546	ug/L	0.182	0	14	30559	1	KED
	Ni	62	22.316	ug/L	0.512	2	3	5043	2	KED
	Cu	63	23.299	ug/L	0.310	1	48	93371	0	KED
	Cu	65	23.306	ug/L	0.430	1	30	47236	0	KED
	Zn	66	84.911	ug/L	0.065	0	42	40302	0	KED
	Zn	67	82.081	ug/L	1.774	2	4	6329	3	KED
	As	75	24.487	ug/L	0.216	0	4	6020	0	KED
	Se	78	73.656	ug/L	1.593	2	9	1649	2	KED
	Y	89		ug/L			181698	193503	3	Standard
	Kr	83		ug/L			48	48	11	Standard
>	In-1	115		ug/L			5567	5542	2	KED
	Cd	111	24.740	ug/L	0.347	1	5	6416	1	KED
	Cd	114	23.917	ug/L	0.538	2	4	15988	1	KED
>	In	115		ug/L			308178	317133	0	Standard
	Sb	121	0.057	ug/L	0.004	6	100	849	5	Standard
	Sb	123	0.052	ug/L	0.002	4	80	615	3	Standard
>	Tb	159		ug/L			813940	846728	1	Standard
	Tl	205	24.966	ug/L	0.402	1	100	1412594	2	Standard
	Pb	208	25.024	ug/L	0.823	3	382	1813841	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLH
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 05:58:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	24109	3	Standard
	Cl	**37**		ug/L			7668033	7770044	1	Standard
⌈>	**Sc**	**45**		ug/L			335348	354660	1	Standard
|	**Cr**	**52**	**0.012**	ug/L	0.032	268	13974	14954	1	Standard
|	**Cr**	**53**	**0.051**	ug/L	0.005	9	180	283	3	Standard
⌊	**Mn**	**55**	**-0.007**	ug/L	0.002	26	831	715	7	Standard
⌈>	**Ge**	**72**		ug/L			22938	23653	0	KED
|	**Ni**	**60**	**-0.004**	ug/L	0.003	62	14	8	44	KED
|	**Ni**	**62**	**-0.006**	ug/L	0.005	76	3	2	43	KED
|	**Cu**	**63**	**0.001**	ug/L	0.004	342	48	54	26	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.002	51	30	24	13	KED
|	**Zn**	**66**	**-0.025**	ug/L	0.024	95	42	31	36	KED
|	**Zn**	**67**	**0.030**	ug/L	0.069	228	4	6	78	KED
|	**As**	**75**	**0.001**	ug/L	0.004	524	4	4	20	KED
⌊	**Se**	**78**	**0.100**	ug/L	0.145	145	9	11	27	KED
	Y	**89**		ug/L			181698	188937	0	Standard
	Kr	**83**		ug/L			48	41	36	Standard
⌈>	**In-1**	**115**		ug/L			5567	5569	1	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.007	115	5	3	50	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.002	56	4	6	18	KED
⌈>	**In**	**115**		ug/L			308178	314200	1	Standard
|	**Sb**	**121**	**-0.005**	ug/L	0.000	2	100	34	5	Standard
⌊	**Sb**	**123**	**-0.005**	ug/L	0.000	8	80	27	16	Standard
⌈>	**Tb**	**159**		ug/L			813940	820336	1	Standard
|	**Tl**	**205**	**0.002**	ug/L	0.000	15	100	227	9	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	4	382	227	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVG
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 06:03:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	22675	2	Standard
	Cl	**37**		ug/L			7668033	8166466	2	Standard
>	**Sc**	**45**		ug/L			335348	346280	0	Standard
	Cr	**52**	**56.061**	ug/L	1.386	2	13974	841803	2	Standard
	Cr	**53**	**56.573**	ug/L	0.079	0	180	99087	0	Standard
	Mn	**55**	**56.161**	ug/L	0.320	0	831	1220289	0	Standard
>	**Ge**	**72**		ug/L			22938	22909	2	KED
	Ni	**60**	**44.823**	ug/L	0.920	2	14	59722	1	KED
	Ni	**62**	**44.336**	ug/L	1.079	2	3	9847	0	KED
	Cu	**63**	**44.639**	ug/L	1.080	2	48	175848	0	KED
	Cu	**65**	**45.221**	ug/L	0.608	1	30	90105	1	KED
	Zn	**66**	**45.373**	ug/L	0.982	2	42	21199	2	KED
	Zn	**67**	**46.725**	ug/L	0.842	1	4	3545	4	KED
	As	**75**	**49.729**	ug/L	0.535	1	4	12018	1	KED
	Se	**78**	**48.410**	ug/L	1.409	2	9	1068	1	KED
	Y	**89**		ug/L			181698	188316	3	Standard
	Kr	**83**		ug/L			48	50	10	Standard
>	**In-1**	**115**		ug/L			5567	5483	2	KED
	Cd	**111**	**48.594**	ug/L	0.754	1	5	12461	0	KED
	Cd	**114**	**47.967**	ug/L	2.024	4	4	31707	2	KED
>	**In**	**115**		ug/L			308178	302500	2	Standard
	Sb	**121**	**54.308**	ug/L	1.193	2	100	676660	1	Standard
	Sb	**123**	**52.610**	ug/L	0.639	1	80	514542	1	Standard
>	**Tb**	**159**		ug/L			813940	809675	0	Standard
	Tl	**205**	**46.061**	ug/L	0.283	0	100	2491941	0	Standard
	Pb	**208**	**48.761**	ug/L	0.569	1	382	3380106	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBG
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 06:11:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	21557	1	Standard
	Cl	**37**		ug/L			7668033	7753902	2	Standard
⌈>	**Sc**	**45**		ug/L			335348	343054	1	Standard
|	**Cr**	**52**	**0.019**	ug/L	0.012	61	13974	14579	1	Standard
|	**Cr**	**53**	**0.033**	ug/L	0.008	25	180	241	4	Standard
⌊	**Mn**	**55**	**-0.004**	ug/L	0.004	86	831	760	9	Standard
⌈>	**Ge**	**72**		ug/L			22938	23342	0	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.001	13	14	6	15	KED
|	**Ni**	**62**	**-0.011**	ug/L	0.005	42	3	1	86	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.001	22	48	31	12	KED
|	**Cu**	**65**	**-0.007**	ug/L	0.003	48	30	17	40	KED
|	**Zn**	**66**	**-0.035**	ug/L	0.031	88	42	26	55	KED
|	**Zn**	**67**	**0.032**	ug/L	0.029	90	4	6	31	KED
|	**As**	**75**	**-0.009**	ug/L	0.000	0	4	2	0	KED
⌊	**Se**	**78**	**0.107**	ug/L	0.108	100	9	11	19	KED
	Y	**89**		ug/L			181698	185460	1	Standard
	Kr	**83**		ug/L			48	57	14	Standard
⌈>	**In-1**	**115**		ug/L			5567	5618	1	KED
|	**Cd**	**111**	**-0.016**	ug/L	0.005	34	5	1	114	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.004	154	4	2	122	KED
⌈>	**In**	**115**		ug/L			308178	315405	2	Standard
|	**Sb**	**121**	**0.012**	ug/L	0.003	29	100	257	16	Standard
⌊	**Sb**	**123**	**0.010**	ug/L	0.004	41	80	187	22	Standard
⌈>	**Tb**	**159**		ug/L			813940	811837	0	Standard
|	**Tl**	**205**	**0.007**	ug/L	0.002	29	100	459	22	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.002	216	382	442	30	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0227-01
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Wednesday, December 28, 2022 06:15:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			21279	50997	2	Standard
	Cl	37		ug/L			7668033	8014495	2	Standard
>	Sc	45		ug/L			335348	435950	0	Standard
	Cr	52	26.530	ug/L	0.320	1	13974	511090	0	Standard
	Cr	53	26.842	ug/L	0.425	1	180	59309	1	Standard
	Mn	55	285.555	ug/L	6.712	2	831	7806058	1	Standard
>	Ge	72		ug/L			22938	23608	1	KED
	Ni	60	25.957	ug/L	0.488	1	14	35653	1	KED
	Ni	62	26.082	ug/L	0.554	2	3	5974	3	KED
	Cu	63	11.002	ug/L	0.035	0	48	44716	1	KED
	Cu	65	11.340	ug/L	0.284	2	30	23312	2	KED
	Zn	66	25.218	ug/L	0.375	1	42	12162	2	KED
	Zn	67	27.554	ug/L	0.779	2	4	2155	2	KED
	As	75	14.230	ug/L	0.095	0	4	3547	0	KED
	Se	78	0.839	ug/L	0.186	22	9	28	15	KED
	Y	89		ug/L			181698	368187	1	Standard
	Kr	83		ug/L			48	136	26	Standard
>	In-1	115		ug/L			5567	5646	2	KED
	Cd	111	0.033	ug/L	0.020	60	5	14	37	KED
	Cd	114	0.044	ug/L	0.003	6	4	34	8	KED
>	In	115		ug/L			308178	319294	2	Standard
	Sb	121	2.892	ug/L	0.057	1	100	38136	2	Standard
	Sb	123	2.787	ug/L	0.042	1	80	28847	1	Standard
>	Tb	159		ug/L			813940	838862	1	Standard
	Tl	205	0.050	ug/L	0.000	0	100	2884	0	Standard
	Pb	208	579.866	ug/L	13.162	2	382	41635486	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0227-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 06:20:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			21279	47505	2	Standard
Cl	37		ug/L			7668033	8017906	1	Standard
> Sc	45		ug/L			335348	481193	1	Standard
Cr	52	25.497	ug/L	0.573	2	13974	542884	1	Standard
Cr	53	25.549	ug/L	0.254	0	180	62320	0	Standard
Mn	55	147.012	ug/L	3.246	2	831	4436126	1	Standard
> Ge	72		ug/L			22938	23161	1	KED
Ni	60	28.619	ug/L	0.964	3	14	38550	1	KED
Ni	62	29.253	ug/L	0.516	1	3	6571	1	KED
Cu	63	19.109	ug/L	0.329	1	48	76143	0	KED
Cu	65	19.701	ug/L	0.578	2	30	39697	1	KED
Zn	66	25.123	ug/L	0.570	2	42	11884	0	KED
Zn	67	29.703	ug/L	0.513	1	4	2279	0	KED
As	75	9.399	ug/L	0.179	1	4	2300	0	KED
Se	78	0.743	ug/L	0.247	33	9	25	19	KED
Y	89		ug/L			181698	329809	1	Standard
Kr	83		ug/L			48	73	26	Standard
> In-1	115		ug/L			5567	5428	1	KED
Cd	111	0.044	ug/L	0.018	40	5	16	26	KED
Cd	114	0.057	ug/L	0.013	23	4	41	22	KED
> In	115		ug/L			308178	312396	0	Standard
Sb	121	0.804	ug/L	0.020	2	100	10446	1	Standard
Sb	123	0.779	ug/L	0.023	3	80	7944	2	Standard
> Tb	159		ug/L			813940	829271	0	Standard
Tl	205	0.047	ug/L	0.002	5	100	2683	4	Standard
Pb	208	363.239	ug/L	2.799	0	382	25787772	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0227-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 06:25:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	44852	2	Standard
	Cl	**37**		ug/L			7668033	8080585	2	Standard
>	**Sc**	**45**		ug/L			335348	471725	2	Standard
	Cr	**52**	**18.969**	ug/L	0.461	2	13974	400899	1	Standard
	Cr	**53**	**19.365**	ug/L	0.358	1	180	46359	1	Standard
	Mn	**55**	**122.634**	ug/L	2.962	2	831	3627519	2	Standard
>	**Ge**	**72**		ug/L			22938	23258	0	KED
	Ni	**60**	**19.216**	ug/L	0.079	0	14	26007	0	KED
	Ni	**62**	**18.854**	ug/L	0.210	1	3	4255	0	KED
	Cu	**63**	**10.802**	ug/L	0.087	0	48	43255	1	KED
	Cu	**65**	**10.951**	ug/L	0.238	2	30	22179	2	KED
	Zn	**66**	**16.233**	ug/L	0.066	0	42	7728	0	KED
	Zn	**67**	**17.225**	ug/L	0.593	3	4	1329	3	KED
	As	**75**	**5.404**	ug/L	0.079	1	4	1330	0	KED
	Se	**78**	**1.134**	ug/L	0.078	6	9	34	5	KED
	Y	**89**		ug/L			181698	384033	1	Standard
	Kr	**83**		ug/L			48	78	3	Standard
>	**In-1**	**115**		ug/L			5567	5439	1	KED
	Cd	**111**	**0.045**	ug/L	0.013	28	5	16	19	KED
	Cd	**114**	**0.049**	ug/L	0.012	23	4	36	22	KED
>	**In**	**115**		ug/L			308178	312259	3	Standard
	Sb	**121**	**0.854**	ug/L	0.026	2	100	11079	0	Standard
	Sb	**123**	**0.842**	ug/L	0.040	4	80	8575	1	Standard
>	**Tb**	**159**		ug/L			813940	838916	2	Standard
	Tl	**205**	**0.037**	ug/L	0.000	0	100	2167	2	Standard
	Pb	**208**	**282.998**	ug/L	8.646	3	382	20314033	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0227-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 06:30:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	47634	2	Standard
	Cl	**37**		ug/L			7668033	8037922	2	Standard
⌈>	**Sc**	**45**		ug/L			335348	407118	1	Standard
|	**Cr**	**52**	**19.478**	ug/L	0.425	2	13974	354955	2	Standard
|	**Cr**	**53**	**19.371**	ug/L	0.784	4	180	40019	2	Standard
⌊	**Mn**	**55**	**259.015**	ug/L	2.143	0	831	6612580	1	Standard
⌈>	**Ge**	**72**		ug/L			22938	23410	0	KED
|	**Ni**	**60**	**27.142**	ug/L	0.562	2	14	36968	2	KED
|	**Ni**	**62**	**27.162**	ug/L	1.623	5	3	6166	5	KED
|	**Cu**	**63**	**6.256**	ug/L	0.077	1	48	25238	2	KED
|	**Cu**	**65**	**6.385**	ug/L	0.122	1	30	13028	0	KED
|	**Zn**	**66**	**29.167**	ug/L	0.649	2	42	13940	1	KED
|	**Zn**	**67**	**33.657**	ug/L	1.446	4	4	2610	4	KED
|	**As**	**75**	**2.099**	ug/L	0.040	1	4	522	1	KED
⌊	**Se**	**78**	**0.459**	ug/L	0.177	38	9	19	19	KED
	Y	**89**		ug/L			181698	271360	1	Standard
	Kr	**83**		ug/L			48	134	5	Standard
⌈>	**In-1**	**115**		ug/L			5567	5631	1	KED
|	**Cd**	**111**	**0.037**	ug/L	0.003	8	5	15	6	KED
⌊	**Cd**	**114**	**0.042**	ug/L	0.009	22	4	32	18	KED
⌈>	**In**	**115**		ug/L			308178	318079	3	Standard
|	**Sb**	**121**	**0.091**	ug/L	0.003	2	100	1302	3	Standard
⌊	**Sb**	**123**	**0.084**	ug/L	0.006	7	80	946	3	Standard
⌈>	**Tb**	**159**		ug/L			813940	827442	1	Standard
|	**Tl**	**205**	**0.054**	ug/L	0.002	4	100	3102	4	Standard
⌊	**Pb**	**208**	**25.309**	ug/L	0.552	2	382	1792938	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0227-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 06:34:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			21279	46932	0	Standard
Cl	37		ug/L			7668033	8045867	1	Standard
> Sc	45		ug/L			335348	453643	2	Standard
Cr	52	32.085	ug/L	0.913	2	13974	639006	0	Standard
Cr	53	32.987	ug/L	0.429	1	180	75777	1	Standard
Mn	55	239.617	ug/L	8.776	3	831	6814379	2	Standard
> Ge	72		ug/L			22938	23582	0	KED
Ni	60	28.755	ug/L	0.271	0	14	39453	1	KED
Ni	62	28.811	ug/L	0.663	2	3	6590	1	KED
Cu	63	17.166	ug/L	0.051	0	48	69666	0	KED
Cu	65	17.193	ug/L	0.239	1	30	35292	1	KED
Zn	66	35.153	ug/L	0.844	2	42	16917	2	KED
Zn	67	36.248	ug/L	0.365	1	4	2832	1	KED
As	75	3.552	ug/L	0.045	1	4	888	1	KED
Se	78	0.715	ug/L	0.208	29	9	25	17	KED
Y	89		ug/L			181698	371638	0	Standard
Kr	83		ug/L			48	136	14	Standard
> In-1	115		ug/L			5567	5515	1	KED
Cd	111	0.066	ug/L	0.022	33	5	22	24	KED
Cd	114	0.077	ug/L	0.023	29	4	55	26	KED
> In	115		ug/L			308178	321300	3	Standard
Sb	121	0.082	ug/L	0.003	3	100	1194	2	Standard
Sb	123	0.082	ug/L	0.005	6	80	934	7	Standard
> Tb	159		ug/L			813940	843034	1	Standard
Tl	205	0.042	ug/L	0.002	3	100	2473	4	Standard
Pb	208	82.661	ug/L	1.210	1	382	5965687	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0227-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 06:39:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			21279	43224	2	Standard
Cl	37		ug/L			7668033	8045709	2	Standard
> Sc	45		ug/L			335348	430922	1	Standard
Cr	52	**21.493**	ug/L	0.411	1	13974	412721	2	Standard
Cr	53	**21.715**	ug/L	0.151	0	180	47469	1	Standard
Mn	55	**213.145**	ug/L	7.546	3	831	5757805	1	Standard
> Ge	72		ug/L			22938	23396	0	KED
Ni	60	**26.288**	ug/L	0.528	2	14	35786	2	KED
Ni	62	**26.476**	ug/L	0.397	1	3	6010	2	KED
Cu	63	**7.925**	ug/L	0.166	2	48	31935	2	KED
Cu	65	**8.011**	ug/L	0.128	1	30	16330	1	KED
Zn	66	**25.259**	ug/L	0.464	1	42	12072	1	KED
Zn	67	**29.858**	ug/L	0.483	1	4	2315	1	KED
As	75	**2.455**	ug/L	0.017	0	4	610	0	KED
Se	78	**0.630**	ug/L	0.154	24	9	23	15	KED
Y	89		ug/L			181698	290244	1	Standard
Kr	83		ug/L			48	117	2	Standard
> In-1	115		ug/L			5567	5665	2	KED
Cd	111	**0.051**	ug/L	0.018	35	5	19	22	KED
Cd	114	**0.063**	ug/L	0.015	23	4	47	22	KED
> In	115		ug/L			308178	329982	2	Standard
Sb	121	**0.006**	ug/L	0.001	19	100	191	6	Standard
Sb	123	**0.008**	ug/L	0.001	16	80	169	6	Standard
> Tb	159		ug/L			813940	841887	1	Standard
Tl	205	**0.050**	ug/L	0.001	2	100	2909	2	Standard
Pb	208	**6.005**	ug/L	0.112	1	382	433091	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0234-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, December 28, 2022 06:45:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			21279	27502	2	Standard
	Cl	37		ug/L			7668033	7736398	1	Standard
⌈>	Sc	45		ug/L			335348	370076	0	Standard
|	Cr	52	2.819	ug/L	0.158	5	13974	59881	3	Standard
|	Cr	53	2.953	ug/L	0.048	1	180	5715	1	Standard
⌊	Mn	55	31.290	ug/L	0.593	1	831	726948	1	Standard
⌈>	Ge	72		ug/L			22938	23622	0	KED
|	Ni	60	1.660	ug/L	0.039	2	14	2295	2	KED
|	Ni	62	1.640	ug/L	0.128	7	3	379	7	KED
|	Cu	63	4.722	ug/L	0.085	1	48	19230	1	KED
|	Cu	65	4.786	ug/L	0.140	2	30	9862	2	KED
|	Zn	66	49.537	ug/L	0.609	1	42	23862	0	KED
|	Zn	67	48.575	ug/L	1.269	2	4	3799	2	KED
|	As	75	0.693	ug/L	0.042	6	4	177	6	KED
⌊	Se	78	0.178	ug/L	0.112	62	9	13	18	KED
	Y	89		ug/L			181698	207692	2	Standard
	Kr	83		ug/L			48	49	26	Standard
⌈>	In-1	115		ug/L			5567	5643	2	KED
|	Cd	111	0.018	ug/L	0.017	95	5	10	44	KED
⌊	Cd	114	0.023	ug/L	0.010	45	4	20	35	KED
⌈>	In	115		ug/L			308178	329217	0	Standard
|	Sb	121	0.208	ug/L	0.006	2	100	2932	2	Standard
⌊	Sb	123	0.194	ug/L	0.006	2	80	2146	3	Standard
⌈>	Tb	159		ug/L			813940	835075	0	Standard
|	Tl	205	0.009	ug/L	0.001	13	100	633	10	Standard
⌊	Pb	208	1.854	ug/L	0.032	1	382	132958	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0234-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 06:50:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			21279	43262	1	Standard
	Cl	37		ug/L			7668033	8654957	2	Standard
>	Sc	45		ug/L			335348	401492	1	Standard
	Cr	52	3.512	ug/L	0.020	0	13974	76824	0	Standard
	Cr	53	5.078	ug/L	0.049	0	180	10509	1	Standard
	Mn	55	16.007	ug/L	0.304	1	831	403918	0	Standard
>	Ge	72		ug/L			22938	22796	1	KED
	Ni	60	1.465	ug/L	0.005	0	14	1956	1	KED
	Ni	62	1.582	ug/L	0.208	13	3	353	14	KED
	Cu	63	5.193	ug/L	0.161	3	48	20399	1	KED
	Cu	65	5.269	ug/L	0.038	0	30	10474	1	KED
	Zn	66	22.040	ug/L	0.146	0	42	10268	1	KED
	Zn	67	23.472	ug/L	1.209	5	4	1773	4	KED
	As	75	1.966	ug/L	0.079	4	4	476	2	KED
	Se	78	0.350	ug/L	0.101	28	9	16	14	KED
	Y	89		ug/L			181698	199351	1	Standard
	Kr	83		ug/L			48	57	10	Standard
>	In-1	115		ug/L			5567	5372	0	KED
	Cd	111	0.035	ug/L	0.015	43	5	13	27	KED
	Cd	114	0.022	ug/L	0.016	73	4	18	57	KED
>	In	115		ug/L			308178	308984	1	Standard
	Sb	121	2.568	ug/L	0.030	1	100	32788	0	Standard
	Sb	123	2.511	ug/L	0.053	2	80	25166	1	Standard
>	Tb	159		ug/L			813940	821512	2	Standard
	Tl	205	0.011	ug/L	0.001	7	100	728	5	Standard
	Pb	208	1.161	ug/L	0.013	1	382	82020	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0205-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 06:55:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			21279	38803	3	Standard
Cl	37		ug/L			7668033	8960566	1	Standard
> Sc	45		ug/L			335348	422712	1	Standard
Cr	52	0.182	ug/L	0.017	9	13974	20898	1	Standard
Cr	53	2.510	ug/L	0.042	1	180	5583	1	Standard
Mn	55	156.102	ug/L	1.876	1	831	4138573	2	Standard
> Ge	72		ug/L			22938	22198	0	KED
Ni	60	1.439	ug/L	0.065	4	14	1871	4	KED
Ni	62	1.435	ug/L	0.145	10	3	312	9	KED
Cu	63	0.312	ug/L	0.015	4	48	1238	4	KED
Cu	65	0.308	ug/L	0.038	12	30	623	11	KED
Zn	66	1.547	ug/L	0.051	3	42	740	3	KED
Zn	67	2.345	ug/L	0.166	7	4	176	6	KED
As	75	0.653	ug/L	0.032	4	4	157	4	KED
Se	78	0.303	ug/L	0.079	26	9	15	10	KED
Y	89		ug/L			181698	193131	4	Standard
Kr	83		ug/L			48	41	16	Standard
> In-1	115		ug/L			5567	5308	0	KED
Cd	111	0.016	ug/L	0.002	14	5	9	5	KED
Cd	114	0.027	ug/L	0.007	25	4	21	20	KED
> In	115		ug/L			308178	301935	2	Standard
Sb	121	0.047	ug/L	0.002	4	100	688	3	Standard
Sb	123	0.044	ug/L	0.004	8	80	508	4	Standard
> Tb	159		ug/L			813940	837769	0	Standard
Tl	205	0.006	ug/L	0.001	13	100	436	9	Standard
Pb	208	0.023	ug/L	0.000	0	382	2060	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLI
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 06:59:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	24657	3	Standard
	Cl	**37**		ug/L			7668033	8117180	1	Standard
⌈>	**Sc**	**45**		ug/L			335348	353374	2	Standard
|	**Cr**	**52**	**0.066**	ug/L	0.039	58	13974	15715	2	Standard
|	**Cr**	**53**	**0.117**	ug/L	0.008	6	180	399	3	Standard
⌊	**Mn**	**55**	**0.001**	ug/L	0.002	178	831	903	3	Standard
⌈>	**Ge**	**72**		ug/L			22938	23192	0	KED
|	**Ni**	**60**	**-0.005**	ug/L	0.000	0	14	7	0	KED
|	**Ni**	**62**	**-0.000**	ug/L	0.015	8635	3	3	86	KED
|	**Cu**	**63**	**-0.006**	ug/L	0.001	17	48	27	14	KED
|	**Cu**	**65**	**-0.009**	ug/L	0.001	15	30	12	22	KED
|	**Zn**	**66**	**-0.033**	ug/L	0.016	47	42	27	28	KED
|	**Zn**	**67**	**-0.026**	ug/L	0.029	112	4	2	86	KED
|	**As**	**75**	**-0.009**	ug/L	0.002	23	4	2	20	KED
⌊	**Se**	**78**	**0.103**	ug/L	0.054	52	9	11	10	KED
	Y	**89**		ug/L			181698	189086	2	Standard
	Kr	**83**		ug/L			48	50	5	Standard
⌈>	**In-1**	**115**		ug/L			5567	5567	1	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.004	121	5	4	24	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.007	7525	4	4	112	KED
⌈>	**In**	**115**		ug/L			308178	324277	1	Standard
|	**Sb**	**121**	**-0.005**	ug/L	0.000	7	100	38	13	Standard
⌊	**Sb**	**123**	**-0.005**	ug/L	0.001	13	80	33	20	Standard
⌈>	**Tb**	**159**		ug/L			813940	833626	2	Standard
|	**Tl**	**205**	**0.002**	ug/L	0.000	4	100	229	4	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	4	382	251	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVH
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 07:04:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			21279	23152	3	Standard
	Cl	37		ug/L			7668033	8370699	1	Standard
>	Sc	45		ug/L			335348	356041	1	Standard
	Cr	52	54.759	ug/L	0.965	1	13974	845679	0	Standard
	Cr	53	55.301	ug/L	1.310	2	180	99572	1	Standard
	Mn	55	55.887	ug/L	1.277	2	831	1248255	0	Standard
>	Ge	72		ug/L			22938	22848	1	KED
	Ni	60	44.810	ug/L	0.673	1	14	59566	2	KED
	Ni	62	45.118	ug/L	1.367	3	3	9996	2	KED
	Cu	63	44.887	ug/L	0.306	0	48	176416	0	KED
	Cu	65	46.593	ug/L	0.355	0	30	92607	0	KED
	Zn	66	45.846	ug/L	0.965	2	42	21363	2	KED
	Zn	67	48.532	ug/L	0.555	1	4	3672	1	KED
	As	75	50.388	ug/L	0.707	1	4	12146	0	KED
	Se	78	48.254	ug/L	2.266	4	9	1062	4	KED
	Y	89		ug/L			181698	191436	1	Standard
	Kr	83		ug/L			48	45	14	Standard
>	In-1	115		ug/L			5567	5376	2	KED
	Cd	111	50.057	ug/L	1.038	2	5	12585	0	KED
	Cd	114	50.247	ug/L	1.925	3	4	32569	1	KED
>	In	115		ug/L			308178	320489	2	Standard
	Sb	121	53.452	ug/L	0.608	1	100	705866	2	Standard
	Sb	123	52.476	ug/L	0.299	0	80	543904	2	Standard
>	Tb	159		ug/L			813940	841111	1	Standard
	Tl	205	45.763	ug/L	0.353	0	100	2571894	0	Standard
	Pb	208	48.584	ug/L	0.648	1	382	3498446	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBH
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 07:12:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	21662	2	Standard
	Cl	**37**		ug/L			7668033	8056827	2	Standard
⌈>	**Sc**	**45**		ug/L			335348	344251	1	Standard
|	**Cr**	**52**	**0.052**	ug/L	0.030	58	13974	15100	1	Standard
|	**Cr**	**53**	**0.043**	ug/L	0.006	13	180	260	5	Standard
⌊	**Mn**	**55**	**0.000**	ug/L	0.002	2520	831	855	4	Standard
⌈>	**Ge**	**72**		ug/L			22938	23503	0	KED
|	**Ni**	**60**	**-0.007**	ug/L	0.002	29	14	5	57	KED
|	**Ni**	**62**	**-0.003**	ug/L	0.018	564	3	3	124	KED
|	**Cu**	**63**	**-0.003**	ug/L	0.000	13	48	39	2	KED
|	**Cu**	**65**	**-0.009**	ug/L	0.004	41	30	12	65	KED
|	**Zn**	**66**	**-0.035**	ug/L	0.016	46	42	26	28	KED
|	**Zn**	**67**	**-0.002**	ug/L	0.037	2279	4	4	65	KED
|	**As**	**75**	**-0.004**	ug/L	0.002	57	4	3	15	KED
⌊	**Se**	**78**	**0.074**	ug/L	0.219	297	9	11	43	KED
	Y	**89**		ug/L			181698	190061	1	Standard
	Kr	**83**		ug/L			48	38	39	Standard
⌈>	**In-1**	**115**		ug/L			5567	5538	2	KED
|	**Cd**	**111**	**0.001**	ug/L	0.011	806	5	5	50	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	377	4	4	46	KED
⌈>	**In**	**115**		ug/L			308178	320612	2	Standard
|	**Sb**	**121**	**0.006**	ug/L	0.001	16	100	189	8	Standard
⌊	**Sb**	**123**	**0.006**	ug/L	0.002	25	80	146	11	Standard
⌈>	**Tb**	**159**		ug/L			813940	826523	1	Standard
|	**Tl**	**205**	**0.003**	ug/L	0.000	16	100	266	10	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	26	382	262	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0219-01
Sample Dil Factor: 100
Comments:
Sample Date/Time: Wednesday, December 28, 2022 07:16:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			21279	46214	2	Standard
	Cl	37		ug/L			7668033	7927516	1	Standard
>	Sc	45		ug/L			335348	343537	2	Standard
	Cr	52	1.483	ug/L	0.113	7	13974	36012	2	Standard
	Cr	53	1.404	ug/L	0.031	2	180	2618	1	Standard
	Mn	55	2.032	ug/L	0.079	3	831	44601	1	Standard
>	Ge	72		ug/L			22938	22873	1	KED
	Ni	60	0.227	ug/L	0.017	7	14	316	6	KED
	Ni	62	0.169	ug/L	0.027	16	3	41	13	KED
	Cu	63	0.356	ug/L	0.008	2	48	1450	1	KED
	Cu	65	0.369	ug/L	0.035	9	30	763	8	KED
	Zn	66	44.603	ug/L	0.430	0	42	20807	0	KED
	Zn	67	41.481	ug/L	2.319	5	4	3141	4	KED
	As	75	0.003	ug/L	0.006	182	4	5	27	KED
	Se	78	0.018	ug/L	0.053	292	9	9	10	KED
	Y	89		ug/L			181698	182739	1	Standard
	Kr	83		ug/L			48	43	15	Standard
>	In-1	115		ug/L			5567	5602	2	KED
	Cd	111	0.159	ug/L	0.047	29	5	47	27	KED
	Cd	114	0.165	ug/L	0.038	22	4	115	24	KED
>	In	115		ug/L			308178	326548	0	Standard
	Sb	121	0.015	ug/L	0.002	13	100	306	9	Standard
	Sb	123	0.014	ug/L	0.001	6	80	229	2	Standard
>	Tb	159		ug/L			813940	827685	1	Standard
	Tl	205	0.001	ug/L	0.000	3	100	151	1	Standard
	Pb	208	0.022	ug/L	0.000	1	382	1930	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0181-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 07:21:44

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	38854	3	Standard
	Cl	**37**		ug/L			7668033	7995549	2	Standard
⌈>	**Sc**	**45**		ug/L			335348	407578	2	Standard
|	**Cr**	**52**	**0.517**	ug/L	0.025	4	13974	25950	1	Standard
|	**Cr**	**53**	**0.983**	ug/L	0.017	1	180	2241	4	Standard
⌊	**Mn**	**55**	**0.141**	ug/L	0.005	3	831	4604	1	Standard
⌈>	**Ge**	**72**		ug/L			22938	20708	0	KED
|	**Ni**	**60**	**1.007**	ug/L	0.013	1	14	1225	1	KED
|	**Ni**	**62**	**1.030**	ug/L	0.049	4	3	210	4	KED
|	**Cu**	**63**	**4.006**	ug/L	0.019	0	48	14309	0	KED
|	**Cu**	**65**	**3.986**	ug/L	0.084	2	30	7205	1	KED
|	**Zn**	**66**	**11.649**	ug/L	0.128	1	42	4948	0	KED
|	**Zn**	**67**	**14.670**	ug/L	0.542	3	4	1008	3	KED
|	**As**	**75**	**1.081**	ug/L	0.027	2	4	240	2	KED
⌊	**Se**	**78**	**3.407**	ug/L	0.161	4	9	75	4	KED
	Y	**89**		ug/L			181698	183903	3	Standard
	Kr	**83**		ug/L			48	55	16	Standard
⌈>	**In-1**	**115**		ug/L			5567	4845	1	KED
|	**Cd**	**111**	**0.061**	ug/L	0.020	33	5	18	23	KED
⌊	**Cd**	**114**	**0.078**	ug/L	0.014	18	4	49	15	KED
⌈>	**In**	**115**		ug/L			308178	307052	1	Standard
|	**Sb**	**121**	**0.161**	ug/L	0.007	4	100	2140	3	Standard
⌊	**Sb**	**123**	**0.160**	ug/L	0.003	2	80	1669	2	Standard
⌈>	**Tb**	**159**		ug/L			813940	807090	1	Standard
|	**Tl**	**205**	**0.005**	ug/L	0.001	10	100	373	7	Standard
⌊	**Pb**	**208**	**0.914**	ug/L	0.017	1	382	63551	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0181-06
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Wednesday, December 28, 2022 07:26:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	36758	4	Standard
	Cl	**37**		ug/L			7668033	7455921	3	Standard
⌈>	**Sc**	**45**		ug/L			335348	362068	3	Standard
|	**Cr**	**52**	**-0.011**	ug/L	0.028	264	13974	14916	3	Standard
|	**Cr**	**53**	**0.144**	ug/L	0.018	12	180	458	6	Standard
⌊	**Mn**	**55**	**105.297**	ug/L	1.109	1	831	2390885	2	Standard
⌈>	**Ge**	**72**		ug/L			22938	19975	1	KED
|	**Ni**	**60**	**1.818**	ug/L	0.058	3	14	2123	2	KED
|	**Ni**	**62**	**1.856**	ug/L	0.210	11	3	362	10	KED
|	**Cu**	**63**	**0.156**	ug/L	0.015	9	48	577	7	KED
|	**Cu**	**65**	**0.166**	ug/L	0.011	6	30	314	6	KED
|	**Zn**	**66**	**2.031**	ug/L	0.031	1	42	862	2	KED
|	**Zn**	**67**	**3.046**	ug/L	0.118	3	4	205	2	KED
|	**As**	**75**	**0.177**	ug/L	0.021	11	4	41	9	KED
⌊	**Se**	**78**	**0.045**	ug/L	0.166	365	9	9	35	KED
	Y	**89**		ug/L			181698	189593	2	Standard
	Kr	**83**		ug/L			48	61	18	Standard
⌈>	**In-1**	**115**		ug/L			5567	4680	2	KED
|	**Cd**	**111**	**0.020**	ug/L	0.017	86	5	8	44	KED
⌊	**Cd**	**114**	**0.044**	ug/L	0.012	26	4	28	26	KED
⌈>	**In**	**115**		ug/L			308178	317403	0	Standard
|	**Sb**	**121**	**0.118**	ug/L	0.007	5	100	1641	5	Standard
⌊	**Sb**	**123**	**0.116**	ug/L	0.009	7	80	1274	7	Standard
⌈>	**Tb**	**159**		ug/L			813940	819048	1	Standard
|	**Tl**	**205**	**0.016**	ug/L	0.000	3	100	980	1	Standard
⌊	**Pb**	**208**	**0.008**	ug/L	0.001	6	382	938	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0181-08
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 07:31:18

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	38886	2	Standard
	Cl	**37**		ug/L			7668033	7602300	3	Standard
⌈>	**Sc**	**45**		ug/L			335348	359743	2	Standard
|	**Cr**	**52**	**0.043**	ug/L	0.009	20	13974	15649	2	Standard
|	**Cr**	**53**	**0.201**	ug/L	0.018	8	180	559	4	Standard
⌊	**Mn**	**55**	**84.196**	ug/L	0.636	0	831	1899913	1	Standard
⌈>	**Ge**	**72**		ug/L			22938	19200	10	KED
|	**Ni**	**60**	**2.405**	ug/L	0.297	12	14	2674	1	KED
|	**Ni**	**62**	**2.491**	ug/L	0.600	24	3	459	12	KED
|	**Cu**	**63**	**0.466**	ug/L	0.055	11	48	1566	3	KED
|	**Cu**	**65**	**0.490**	ug/L	0.053	10	30	836	2	KED
|	**Zn**	**66**	**8.801**	ug/L	1.010	11	42	3448	0	KED
|	**Zn**	**67**	**10.029**	ug/L	1.156	11	4	635	2	KED
|	**As**	**75**	**0.515**	ug/L	0.101	19	4	106	7	KED
⌊	**Se**	**78**	**0.200**	ug/L	0.196	97	9	11	29	KED
	Y	**89**		ug/L			181698	189542	2	Standard
	Kr	**83**		ug/L			48	53	15	Standard
⌈>	**In-1**	**115**		ug/L			5567	4747	4	KED
|	**Cd**	**111**	**0.028**	ug/L	0.010	36	5	10	18	KED
⌊	**Cd**	**114**	**0.016**	ug/L	0.008	48	4	12	38	KED
⌈>	**In**	**115**		ug/L			308178	315388	2	Standard
|	**Sb**	**121**	**0.235**	ug/L	0.002	0	100	3152	1	Standard
⌊	**Sb**	**123**	**0.235**	ug/L	0.013	5	80	2478	4	Standard
⌈>	**Tb**	**159**		ug/L			813940	814778	0	Standard
|	**Tl**	**205**	**0.003**	ug/L	0.001	18	100	288	11	Standard
⌊	**Pb**	**208**	**0.052**	ug/L	0.002	4	382	3998	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0181-10
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Wednesday, December 28, 2022 07:36:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	38801	3	Standard
	Cl	**37**		ug/L			7668033	7796486	4	Standard
⌈>	**Sc**	**45**		ug/L			335348	379128	1	Standard
|	**Cr**	**52**	**0.678**	ug/L	0.023	3	13974	26756	2	Standard
|	**Cr**	**53**	**0.982**	ug/L	0.049	4	180	2084	5	Standard
⌊	**Mn**	**55**	**5.395**	ug/L	0.070	1	831	129198	2	Standard
⌈>	**Ge**	**72**		ug/L			22938	20346	2	KED
|	**Ni**	**60**	**1.025**	ug/L	0.071	6	14	1224	6	KED
|	**Ni**	**62**	**1.016**	ug/L	0.016	1	3	203	2	KED
|	**Cu**	**63**	**1.580**	ug/L	0.018	1	48	5571	3	KED
|	**Cu**	**65**	**1.571**	ug/L	0.017	1	30	2806	1	KED
|	**Zn**	**66**	**2.507**	ug/L	0.143	5	42	1076	6	KED
|	**Zn**	**67**	**5.392**	ug/L	0.505	9	4	366	7	KED
|	**As**	**75**	**1.504**	ug/L	0.085	5	4	326	5	KED
⌊	**Se**	**78**	**33.790**	ug/L	0.959	2	9	665	4	KED
	Y	**89**		ug/L			181698	189136	1	Standard
	Kr	**83**		ug/L			48	60	13	Standard
⌈>	**In-1**	**115**		ug/L			5567	4653	1	KED
|	**Cd**	**111**	**0.038**	ug/L	0.010	26	5	12	15	KED
⌊	**Cd**	**114**	**0.043**	ug/L	0.012	29	4	27	26	KED
⌈>	**In**	**115**		ug/L			308178	312431	1	Standard
|	**Sb**	**121**	**0.578**	ug/L	0.007	1	100	7543	1	Standard
⌊	**Sb**	**123**	**0.570**	ug/L	0.020	3	80	5838	2	Standard
⌈>	**Tb**	**159**		ug/L			813940	837174	1	Standard
|	**Tl**	**205**	**0.008**	ug/L	0.000	3	100	566	1	Standard
⌊	**Pb**	**208**	**0.008**	ug/L	0.000	5	382	993	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0181-04
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Wednesday, December 28, 2022 07:40:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	37625	5	Standard
	Cl	**37**		ug/L			7668033	7873827	3	Standard
⌈>	**Sc**	**45**		ug/L			335348	376375	1	Standard
|	**Cr**	**52**	**0.734**	ug/L	0.021	2	13974	27455	0	Standard
|	**Cr**	**53**	**1.035**	ug/L	0.060	5	180	2167	3	Standard
⌊	**Mn**	**55**	**5.568**	ug/L	0.090	1	831	132304	1	Standard
⌈>	**Ge**	**72**		ug/L			22938	20770	1	KED
|	**Ni**	**60**	**0.991**	ug/L	0.038	3	14	1210	3	KED
|	**Ni**	**62**	**0.936**	ug/L	0.063	6	3	191	5	KED
|	**Cu**	**63**	**1.343**	ug/L	0.046	3	48	4837	1	KED
|	**Cu**	**65**	**1.412**	ug/L	0.063	4	30	2576	2	KED
|	**Zn**	**66**	**2.608**	ug/L	0.179	6	42	1140	4	KED
|	**Zn**	**67**	**5.353**	ug/L	0.389	7	4	371	5	KED
|	**As**	**75**	**1.453**	ug/L	0.040	2	4	322	2	KED
⌊	**Se**	**78**	**33.158**	ug/L	1.716	5	9	666	3	KED
	Y	**89**		ug/L			181698	188783	3	Standard
	Kr	**83**		ug/L			48	44	19	Standard
⌈>	**In-1**	**115**		ug/L			5567	4821	4	KED
|	**Cd**	**111**	**0.035**	ug/L	0.004	11	5	12	11	KED
⌊	**Cd**	**114**	**0.041**	ug/L	0.011	27	4	27	19	KED
⌈>	**In**	**115**		ug/L			308178	318351	1	Standard
|	**Sb**	**121**	**0.641**	ug/L	0.016	2	100	8506	1	Standard
⌊	**Sb**	**123**	**0.646**	ug/L	0.006	0	80	6728	2	Standard
⌈>	**Tb**	**159**		ug/L			813940	832026	3	Standard
|	**Tl**	**205**	**0.008**	ug/L	0.001	12	100	557	11	Standard
⌊	**Pb**	**208**	**0.011**	ug/L	0.001	6	382	1197	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0481-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 07:45:40

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	38187	4	Standard
	Cl	**37**		ug/L			7668033	7877542	2	Standard
⌈>	**Sc**	**45**		ug/L			335348	389267	1	Standard
|	**Cr**	**52**	**0.720**	ug/L	0.012	1	13974	28171	1	Standard
|	**Cr**	**53**	**1.000**	ug/L	0.021	2	180	2175	3	Standard
⌊	**Mn**	**55**	**5.393**	ug/L	0.081	1	831	132577	0	Standard
⌈>	**Ge**	**72**		ug/L			22938	20991	1	KED
|	**Ni**	**60**	**0.955**	ug/L	0.013	1	14	1179	1	KED
|	**Ni**	**62**	**0.960**	ug/L	0.107	11	3	198	10	KED
|	**Cu**	**63**	**1.304**	ug/L	0.039	3	48	4749	1	KED
|	**Cu**	**65**	**1.307**	ug/L	0.024	1	30	2413	2	KED
|	**Zn**	**66**	**2.766**	ug/L	0.096	3	42	1220	1	KED
|	**Zn**	**67**	**5.353**	ug/L	0.193	3	4	375	4	KED
|	**As**	**75**	**1.412**	ug/L	0.051	3	4	316	4	KED
⌊	**Se**	**78**	**32.578**	ug/L	0.690	2	9	662	2	KED
	Y	**89**		ug/L			181698	189870	2	Standard
	Kr	**83**		ug/L			48	59	4	Standard
⌈>	**In-1**	**115**		ug/L			5567	4882	0	KED
|	**Cd**	**111**	**0.028**	ug/L	0.012	43	5	11	24	KED
⌊	**Cd**	**114**	**0.041**	ug/L	0.010	25	4	28	21	KED
⌈>	**In**	**115**		ug/L			308178	324464	1	Standard
|	**Sb**	**121**	**0.610**	ug/L	0.009	1	100	8253	0	Standard
⌊	**Sb**	**123**	**0.626**	ug/L	0.003	0	80	6651	1	Standard
⌈>	**Tb**	**159**		ug/L			813940	840794	0	Standard
|	**Tl**	**205**	**0.008**	ug/L	0.000	3	100	539	3	Standard
⌊	**Pb**	**208**	**0.009**	ug/L	0.001	7	382	1044	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0481-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 07:50:26

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	40393	1	Standard
	Cl	**37**		ug/L			7668033	7899871	1	Standard
⌈>	**Sc**	**45**		ug/L			335348	387341	0	Standard
|	**Cr**	**52**	**23.640**	ug/L	0.492	2	13974	406413	1	Standard
|	**Cr**	**53**	**23.500**	ug/L	0.349	1	180	46164	1	Standard
⌊	**Mn**	**55**	**28.467**	ug/L	1.139	4	831	692320	3	Standard
⌈>	**Ge**	**72**		ug/L			22938	21213	0	KED
|	**Ni**	**60**	**23.313**	ug/L	0.481	2	14	28774	1	KED
|	**Ni**	**62**	**23.533**	ug/L	0.542	2	3	4843	1	KED
|	**Cu**	**63**	**23.261**	ug/L	0.465	1	48	84894	1	KED
|	**Cu**	**65**	**23.383**	ug/L	0.525	2	30	43170	3	KED
|	**Zn**	**66**	**69.256**	ug/L	1.785	2	42	29940	1	KED
|	**Zn**	**67**	**68.440**	ug/L	1.828	2	4	4805	2	KED
|	**As**	**75**	**26.814**	ug/L	0.425	1	4	6003	2	KED
⌊	**Se**	**78**	**105.201**	ug/L	1.322	1	9	2141	0	KED
	Y	**89**		ug/L			181698	190740	1	Standard
	Kr	**83**		ug/L			48	58	8	Standard
⌈>	**In-1**	**115**		ug/L			5567	5007	2	KED
|	**Cd**	**111**	**23.297**	ug/L	0.580	2	5	5457	1	KED
⌊	**Cd**	**114**	**23.427**	ug/L	0.672	2	4	14146	1	KED
⌈>	**In**	**115**		ug/L			308178	324527	2	Standard
|	**Sb**	**121**	**0.630**	ug/L	0.029	4	100	8526	2	Standard
⌊	**Sb**	**123**	**0.616**	ug/L	0.006	1	80	6542	1	Standard
⌈>	**Tb**	**159**		ug/L			813940	837681	2	Standard
|	**Tl**	**205**	**23.917**	ug/L	0.339	1	100	1338514	1	Standard
⌊	**Pb**	**208**	**23.891**	ug/L	0.561	2	382	1713095	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0481-MSD1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Wednesday, December 28, 2022 07:55:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	38617	2	Standard
	Cl	**37**		ug/L			7668033	7951234	3	Standard
⌈>	**Sc**	**45**		ug/L			335348	389057	1	Standard
|	**Cr**	**52**	**23.165**	ug/L	0.774	3	13974	400227	1	Standard
|	**Cr**	**53**	**23.545**	ug/L	0.510	2	180	46448	1	Standard
⌊	**Mn**	**55**	**28.984**	ug/L	1.241	4	831	707719	2	Standard
⌈>	**Ge**	**72**		ug/L			22938	21285	0	KED
|	**Ni**	**60**	**22.893**	ug/L	0.426	1	14	28357	2	KED
|	**Ni**	**62**	**22.420**	ug/L	0.171	0	3	4630	1	KED
|	**Cu**	**63**	**22.672**	ug/L	0.136	0	48	83036	1	KED
|	**Cu**	**65**	**22.879**	ug/L	0.209	0	30	42377	0	KED
|	**Zn**	**66**	**68.027**	ug/L	1.091	1	42	29513	1	KED
|	**Zn**	**67**	**68.720**	ug/L	2.186	3	4	4841	2	KED
|	**As**	**75**	**26.207**	ug/L	0.119	0	4	5887	1	KED
⌊	**Se**	**78**	**104.398**	ug/L	0.249	0	9	2132	1	KED
	Y	**89**		ug/L			181698	191348	3	Standard
	Kr	**83**		ug/L			48	57	6	Standard
⌈>	**In-1**	**115**		ug/L			5567	4978	4	KED
|	**Cd**	**111**	**23.375**	ug/L	0.799	3	5	5440	1	KED
⌊	**Cd**	**114**	**23.378**	ug/L	0.773	3	4	14027	1	KED
⌈>	**In**	**115**		ug/L			308178	320608	2	Standard
|	**Sb**	**121**	**0.603**	ug/L	0.022	3	100	8068	1	Standard
⌊	**Sb**	**123**	**0.612**	ug/L	0.023	3	80	6426	1	Standard
⌈>	**Tb**	**159**		ug/L			813940	833786	1	Standard
|	**Tl**	**205**	**23.670**	ug/L	0.205	0	100	1318651	0	Standard
⌊	**Pb**	**208**	**23.299**	ug/L	0.083	0	382	1663478	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLJ
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 08:00:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	25805	1	Standard
	Cl	**37**		ug/L			7668033	8294205	2	Standard
⌈>	**Sc**	**45**		ug/L			335348	351348	1	Standard
|	**Cr**	**52**	**-0.005**	ug/L	0.014	284	13974	14568	2	Standard
|	**Cr**	**53**	**0.018**	ug/L	0.008	44	180	220	5	Standard
⌊	**Mn**	**55**	**-0.008**	ug/L	0.002	23	831	695	4	Standard
⌈>	**Ge**	**72**		ug/L			22938	23442	2	KED
|	**Ni**	**60**	**0.001**	ug/L	0.005	736	14	15	42	KED
|	**Ni**	**62**	**-0.000**	ug/L	0.009	3671	3	3	50	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.000	2	48	43	2	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.004	124	30	25	30	KED
|	**Zn**	**66**	**-0.029**	ug/L	0.001	3	42	29	3	KED
|	**Zn**	**67**	**0.015**	ug/L	0.002	11	4	5	0	KED
|	**As**	**75**	**-0.007**	ug/L	0.003	42	4	2	26	KED
⌊	**Se**	**78**	**-0.025**	ug/L	0.089	352	9	9	23	KED
	Y	**89**		ug/L			181698	191488	2	Standard
	Kr	**83**		ug/L			48	35	11	Standard
⌈>	**In-1**	**115**		ug/L			5567	5321	1	KED
|	**Cd**	**111**	**-0.011**	ug/L	0.002	22	5	2	21	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.005	268	4	3	97	KED
⌈>	**In**	**115**		ug/L			308178	331260	1	Standard
|	**Sb**	**121**	**-0.005**	ug/L	0.000	4	100	39	7	Standard
⌊	**Sb**	**123**	**-0.006**	ug/L	0.001	12	80	26	25	Standard
⌈>	**Tb**	**159**		ug/L			813940	850108	0	Standard
|	**Tl**	**205**	**0.002**	ug/L	0.001	61	100	211	30	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.001	43	382	256	24	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVI
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 08:05:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	24158	2	Standard
	Cl	**37**		ug/L			7668033	8230111	2	Standard
⌈>	**Sc**	**45**		ug/L			335348	357021	0	Standard
|	**Cr**	**52**	**54.361**	ug/L	0.819	1	13974	842118	2	Standard
|	**Cr**	**53**	**54.899**	ug/L	0.729	1	180	99143	1	Standard
⌊	**Mn**	**55**	**55.114**	ug/L	0.556	1	831	1234717	1	Standard
⌈>	**Ge**	**72**		ug/L			22938	23319	0	KED
|	**Ni**	**60**	**45.130**	ug/L	0.546	1	14	61220	0	KED
|	**Ni**	**62**	**45.172**	ug/L	0.588	1	3	10216	1	KED
|	**Cu**	**63**	**45.296**	ug/L	0.500	1	48	181692	1	KED
|	**Cu**	**65**	**45.613**	ug/L	0.058	0	30	92530	0	KED
|	**Zn**	**66**	**45.840**	ug/L	0.218	0	42	21802	0	KED
|	**Zn**	**67**	**47.108**	ug/L	0.350	0	4	3637	1	KED
|	**As**	**75**	**49.659**	ug/L	0.149	0	4	12218	0	KED
⌊	**Se**	**78**	**47.045**	ug/L	0.616	1	9	1057	1	KED
	Y	**89**		ug/L			181698	195202	1	Standard
	Kr	**83**		ug/L			48	55	23	Standard
⌈>	**In-1**	**115**		ug/L			5567	5306	1	KED
|	**Cd**	**111**	**50.150**	ug/L	0.995	1	5	12447	1	KED
⌊	**Cd**	**114**	**49.509**	ug/L	0.797	1	4	31686	0	KED
⌈>	**In**	**115**		ug/L			308178	330389	2	Standard
|	**Sb**	**121**	**52.921**	ug/L	1.091	2	100	720201	0	Standard
⌊	**Sb**	**123**	**51.680**	ug/L	1.391	2	80	551955	0	Standard
⌈>	**Tb**	**159**		ug/L			813940	870502	2	Standard
|	**Tl**	**205**	**46.181**	ug/L	0.301	0	100	2685998	1	Standard
⌊	**Pb**	**208**	**49.604**	ug/L	0.575	1	382	3696523	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBI
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 08:12:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	22455	0	Standard
	Cl	**37**		ug/L			7668033	8081299	1	Standard
⌈>	**Sc**	**45**		ug/L			335348	354003	2	Standard
|	**Cr**	**52**	**-0.006**	ug/L	0.006	94	13974	14659	2	Standard
|	**Cr**	**53**	**0.028**	ug/L	0.013	44	180	241	10	Standard
⌊	**Mn**	**55**	**-0.011**	ug/L	0.001	10	831	639	3	Standard
⌈>	**Ge**	**72**		ug/L			22938	24025	1	KED
|	**Ni**	**60**	**-0.008**	ug/L	0.003	36	14	4	89	KED
|	**Ni**	**62**	**-0.001**	ug/L	0.021	2607	3	3	132	KED
|	**Cu**	**63**	**-0.006**	ug/L	0.001	8	48	26	7	KED
|	**Cu**	**65**	**-0.006**	ug/L	0.004	58	30	19	40	KED
|	**Zn**	**66**	**-0.042**	ug/L	0.010	24	42	24	19	KED
|	**Zn**	**67**	**-0.026**	ug/L	0.056	213	4	2	173	KED
|	**As**	**75**	**-0.008**	ug/L	0.006	76	4	2	56	KED
⌊	**Se**	**78**	**0.062**	ug/L	0.032	50	9	11	7	KED
	Y	**89**		ug/L			181698	191747	1	Standard
	Kr	**83**		ug/L			48	57	16	Standard
⌈>	**In-1**	**115**		ug/L			5567	5595	3	KED
|	**Cd**	**111**	**-0.009**	ug/L	0.002	26	5	3	17	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.003	79	4	1	112	KED
⌈>	**In**	**115**		ug/L			308178	331531	1	Standard
|	**Sb**	**121**	**0.007**	ug/L	0.002	30	100	200	12	Standard
⌊	**Sb**	**123**	**0.007**	ug/L	0.002	30	80	164	13	Standard
⌈>	**Tb**	**159**		ug/L			813940	865789	0	Standard
|	**Tl**	**205**	**0.003**	ug/L	0.000	18	100	261	10	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	26	382	273	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0324-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 08:17:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	42017	2	Standard
	Cl	**37**		ug/L			7668033	8733739	1	Standard
⌈>	**Sc**	**45**		ug/L			335348	359014	0	Standard
|	**Cr**	**52**	**0.365**	ug/L	0.020	5	13974	20539	1	Standard
|	**Cr**	**53**	**1.811**	ug/L	0.026	1	180	3475	1	Standard
⌊	**Mn**	**55**	**8.746**	ug/L	0.187	2	831	197758	1	Standard
⌈>	**Ge**	**72**		ug/L			22938	23585	1	KED
|	**Ni**	**60**	**0.617**	ug/L	0.036	5	14	860	4	KED
|	**Ni**	**62**	**0.624**	ug/L	0.081	12	3	146	12	KED
|	**Cu**	**63**	**1.986**	ug/L	0.013	0	48	8104	1	KED
|	**Cu**	**65**	**1.973**	ug/L	0.066	3	30	4077	2	KED
|	**Zn**	**66**	**110.552**	ug/L	3.422	3	42	53108	2	KED
|	**Zn**	**67**	**105.704**	ug/L	3.930	3	4	8247	2	KED
|	**As**	**75**	**0.213**	ug/L	0.007	3	4	57	4	KED
⌊	**Se**	**78**	**-0.075**	ug/L	0.156	206	9	7	45	KED
	Y	**89**		ug/L			181698	188519	1	Standard
	Kr	**83**		ug/L			48	57	12	Standard
⌈>	**In-1**	**115**		ug/L			5567	5467	1	KED
|	**Cd**	**111**	**1.127**	ug/L	0.060	5	5	293	4	KED
⌊	**Cd**	**114**	**1.089**	ug/L	0.051	4	4	721	3	KED
⌈>	**In**	**115**		ug/L			308178	325064	3	Standard
|	**Sb**	**121**	**0.375**	ug/L	0.016	4	100	5121	0	Standard
⌊	**Sb**	**123**	**0.377**	ug/L	0.019	5	80	4041	3	Standard
⌈>	**Tb**	**159**		ug/L			813940	839962	0	Standard
|	**Tl**	**205**	**0.006**	ug/L	0.000	5	100	442	4	Standard
⌊	**Pb**	**208**	**0.058**	ug/L	0.001	2	382	4563	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0324-03
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 08:22:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	39965	0	Standard
	Cl	**37**		ug/L			7668033	8171146	2	Standard
⌈>	**Sc**	**45**		ug/L			335348	372627	1	Standard
|	**Cr**	**52**	**0.333**	ug/L	0.016	4	13974	20811	0	Standard
|	**Cr**	**53**	**0.795**	ug/L	0.029	3	180	1695	2	Standard
⌊	**Mn**	**55**	**142.778**	ug/L	4.843	3	831	3336140	2	Standard
⌈>	**Ge**	**72**		ug/L			22938	23201	0	KED
|	**Ni**	**60**	**2.615**	ug/L	0.144	5	14	3543	5	KED
|	**Ni**	**62**	**2.602**	ug/L	0.072	2	3	589	3	KED
|	**Cu**	**63**	**2.580**	ug/L	0.048	1	48	10343	1	KED
|	**Cu**	**65**	**2.608**	ug/L	0.078	2	30	5291	2	KED
|	**Zn**	**66**	**48.874**	ug/L	0.772	1	42	23124	1	KED
|	**Zn**	**67**	**46.789**	ug/L	1.745	3	4	3594	3	KED
|	**As**	**75**	**0.346**	ug/L	0.009	2	4	89	2	KED
⌊	**Se**	**78**	**0.009**	ug/L	0.101	1172	9	9	22	KED
	Y	**89**		ug/L			181698	197912	1	Standard
	Kr	**83**		ug/L			48	44	10	Standard
⌈>	**In-1**	**115**		ug/L			5567	5415	2	KED
|	**Cd**	**111**	**1.630**	ug/L	0.149	9	5	417	7	KED
⌊	**Cd**	**114**	**1.709**	ug/L	0.087	5	4	1120	4	KED
⌈>	**In**	**115**		ug/L			308178	325941	1	Standard
|	**Sb**	**121**	**0.466**	ug/L	0.010	2	100	6356	0	Standard
⌊	**Sb**	**123**	**0.457**	ug/L	0.035	7	80	4894	6	Standard
⌈>	**Tb**	**159**		ug/L			813940	847125	0	Standard
|	**Tl**	**205**	**0.005**	ug/L	0.000	4	100	411	3	Standard
⌊	**Pb**	**208**	**0.153**	ug/L	0.002	1	382	11523	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0324-04
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 08:26:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	44415	3	Standard
	Cl	**37**		ug/L			7668033	8200377	1	Standard
⌈>	**Sc**	**45**		ug/L			335348	399652	1	Standard
|	**Cr**	**52**	**0.196**	ug/L	0.034	17	13974	20003	4	Standard
|	**Cr**	**53**	**0.376**	ug/L	0.022	5	180	972	3	Standard
⌊	**Mn**	**55**	**241.072**	ug/L	1.564	0	831	6042590	2	Standard
⌈>	**Ge**	**72**		ug/L			22938	21084	2	KED
|	**Ni**	**60**	**1.343**	ug/L	0.029	2	14	1660	3	KED
|	**Ni**	**62**	**1.257**	ug/L	0.086	6	3	260	5	KED
|	**Cu**	**63**	**2.813**	ug/L	0.094	3	48	10237	1	KED
|	**Cu**	**65**	**2.906**	ug/L	0.144	4	30	5353	2	KED
|	**Zn**	**66**	**2.256**	ug/L	0.085	3	42	1007	2	KED
|	**Zn**	**67**	**3.644**	ug/L	0.422	11	4	257	9	KED
|	**As**	**75**	**1.274**	ug/L	0.050	3	4	287	1	KED
⌊	**Se**	**78**	**1.058**	ug/L	0.197	18	9	29	13	KED
	Y	**89**		ug/L			181698	181214	1	Standard
	Kr	**83**		ug/L			48	119	16	Standard
⌈>	**In-1**	**115**		ug/L			5567	5029	1	KED
|	**Cd**	**111**	**0.022**	ug/L	0.008	34	5	10	19	KED
⌊	**Cd**	**114**	**0.040**	ug/L	0.006	13	4	28	12	KED
⌈>	**In**	**115**		ug/L			308178	287789	1	Standard
|	**Sb**	**121**	**0.818**	ug/L	0.024	2	100	9786	2	Standard
⌊	**Sb**	**123**	**0.781**	ug/L	0.014	1	80	7345	2	Standard
⌈>	**Tb**	**159**		ug/L			813940	803000	1	Standard
|	**Tl**	**205**	**0.005**	ug/L	0.001	11	100	386	9	Standard
⌊	**Pb**	**208**	**0.066**	ug/L	0.002	2	382	4920	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0324-05
Sample Dil Factor: 2
Comments:

DEL

Sample Date/Time: Wednesday, December 28, 2022 08:31:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	34996	1	Standard
	Cl	**37**		ug/L			7668033	8261827	2	Standard
⌈>	**Sc**	**45**		ug/L			335348	325774	9	Standard
|	**Cr**	**52**	**1.689**	ug/L	0.290	17	13974	36768	1	Standard
|	**Cr**	**53**	**2.148**	ug/L	0.275	12	180	3678	2	Standard
⌊	**Mn**	**55**	**17.406**	ug/L	1.705	9	831	354077	1	Standard
⌈>	**Ge**	**72**		ug/L			22938	23371	1	KED
|	**Ni**	**60**	**0.923**	ug/L	0.021	2	14	1269	4	KED
|	**Ni**	**62**	**1.024**	ug/L	0.151	14	3	235	13	KED
|	**Cu**	**63**	**31.717**	ug/L	0.049	0	48	127526	1	KED
|	**Cu**	**65**	**32.377**	ug/L	0.975	3	30	65812	1	KED
|	**Zn**	**66**	**66.754**	ug/L	1.684	2	42	31794	2	KED
|	**Zn**	**67**	**64.897**	ug/L	2.756	4	4	5018	2	KED
|	**As**	**75**	**0.404**	ug/L	0.016	4	4	104	2	KED
⌊	**Se**	**78**	**0.185**	ug/L	0.125	67	9	13	19	KED
	Y	**89**		ug/L			181698	180638	9	Standard
	Kr	**83**		ug/L			48	46	34	Standard
⌈>	**In-1**	**115**		ug/L			5567	5333	1	KED
|	**Cd**	**111**	**0.037**	ug/L	0.007	19	5	14	13	KED
⌊	**Cd**	**114**	**0.038**	ug/L	0.010	26	4	28	23	KED
⌈>	**In**	**115**		ug/L			308178	298145	9	Standard
|	**Sb**	**121**	**1.235**	ug/L	0.106	8	100	15190	2	Standard
⌊	**Sb**	**123**	**1.223**	ug/L	0.140	11	80	11785	3	Standard
⌈>	**Tb**	**159**		ug/L			813940	786219	7	Standard
|	**Tl**	**205**	**0.007**	ug/L	0.001	7	100	457	1	Standard
⌊	**Pb**	**208**	**1.756**	ug/L	0.180	10	382	117921	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0324-06
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 08:36:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	41910	1	Standard
	Cl	**37**		ug/L			7668033	8282927	2	Standard
⌈>	**Sc**	**45**		ug/L			335348	353398	3	Standard
|	**Cr**	**52**	**2.790**	ug/L	0.141	5	13974	56713	0	Standard
|	**Cr**	**53**	**3.783**	ug/L	0.144	3	180	6935	1	Standard
⌊	**Mn**	**55**	**33.196**	ug/L	0.797	2	831	736122	1	Standard
⌈>	**Ge**	**72**		ug/L			22938	23288	0	KED
|	**Ni**	**60**	**1.956**	ug/L	0.121	6	14	2663	6	KED
|	**Ni**	**62**	**2.218**	ug/L	0.052	2	3	504	2	KED
|	**Cu**	**63**	**63.925**	ug/L	0.230	0	48	256063	0	KED
|	**Cu**	**65**	**64.432**	ug/L	1.096	1	30	130522	1	KED
|	**Zn**	**66**	**135.690**	ug/L	1.945	1	42	64366	1	KED
|	**Zn**	**67**	**130.056**	ug/L	3.377	2	4	10022	2	KED
|	**As**	**75**	**0.869**	ug/L	0.050	5	4	217	5	KED
⌊	**Se**	**78**	**0.171**	ug/L	0.069	40	9	13	11	KED
	Y	**89**		ug/L			181698	192755	2	Standard
	Kr	**83**		ug/L			48	50	11	Standard
⌈>	**In-1**	**115**		ug/L			5567	5531	1	KED
|	**Cd**	**111**	**0.061**	ug/L	0.011	18	5	21	14	KED
⌊	**Cd**	**114**	**0.075**	ug/L	0.033	43	4	54	40	KED
⌈>	**In**	**115**		ug/L			308178	305488	1	Standard
|	**Sb**	**121**	**2.396**	ug/L	0.099	4	100	30235	2	Standard
⌊	**Sb**	**123**	**2.361**	ug/L	0.057	2	80	23396	1	Standard
⌈>	**Tb**	**159**		ug/L			813940	834986	0	Standard
|	**Tl**	**205**	**0.009**	ug/L	0.000	2	100	633	2	Standard
⌊	**Pb**	**208**	**2.673**	ug/L	0.021	0	382	191486	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0208-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 08:41:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			21279	63497	1	Standard
Cl	37		ug/L			7668033	39077368	6	Standard
> Sc	45		ug/L			335348	475925	1	Standard
Cr	52	1.568	ug/L	0.051	3	13974	51632	2	Standard
Cr	53	23.369	ug/L	0.705	3	180	56422	4	Standard
Mn	55	850.205	ug/L	13.047	1	831	25369020	0	Standard
> Ge	72		ug/L			22938	20644	1	KED
Ni	60	13.166	ug/L	0.233	1	14	15819	1	KED
Ni	62	13.238	ug/L	0.813	6	3	2651	5	KED
Cu	63	0.946	ug/L	0.014	1	48	3401	2	KED
Cu	65	0.935	ug/L	0.033	3	30	1706	3	KED
Zn	66	2.271	ug/L	0.042	1	42	992	1	KED
Zn	67	7.201	ug/L	0.416	5	4	495	6	KED
As	75	0.849	ug/L	0.044	5	4	188	6	KED
Se	78	0.547	ug/L	0.048	8	9	19	4	KED
Y	89		ug/L			181698	175159	4	Standard
Kr	83		ug/L			48	172	8	Standard
> In-1	115		ug/L			5567	4971	1	KED
Cd	111	0.703	ug/L	0.015	2	5	168	3	KED
Cd	114	0.668	ug/L	0.031	4	4	404	5	KED
> In	115		ug/L			308178	236893	1	Standard
Sb	121	0.117	ug/L	0.007	6	100	1224	6	Standard
Sb	123	0.125	ug/L	0.008	6	80	1019	5	Standard
> Tb	159		ug/L			813940	705587	0	Standard
Tl	205	0.006	ug/L	0.001	16	100	370	12	Standard
Pb	208	0.043	ug/L	0.001	3	382	2956	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0517-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 08:46:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			21279	64537	3	Standard
Cl	37		ug/L			7668033	40310143	1	Standard
> Sc	45		ug/L			335348	511994	0	Standard
Cr	52	1.566	ug/L	0.040	2	13974	55505	2	Standard
Cr	53	23.270	ug/L	0.320	1	180	60428	2	Standard
Mn	55	826.672	ug/L	1.912	0	831	26540904	0	Standard
> Ge	72		ug/L			22938	21686	2	KED
Ni	60	13.052	ug/L	0.335	2	14	16470	0	KED
Ni	62	13.230	ug/L	0.734	5	3	2783	3	KED
Cu	63	0.897	ug/L	0.027	3	48	3390	0	KED
Cu	65	0.956	ug/L	0.030	3	30	1832	4	KED
Zn	66	2.334	ug/L	0.140	6	42	1071	6	KED
Zn	67	7.366	ug/L	0.463	6	4	532	4	KED
As	75	0.884	ug/L	0.031	3	4	206	1	KED
Se	78	0.544	ug/L	0.174	31	9	20	19	KED
Y	89		ug/L			181698	187310	3	Standard
Kr	83		ug/L			48	188	4	Standard
> In-1	115		ug/L			5567	5296	0	KED
Cd	111	0.701	ug/L	0.041	5	5	178	5	KED
Cd	114	0.676	ug/L	0.032	4	4	435	4	KED
> In	115		ug/L			308178	242901	2	Standard
Sb	121	0.128	ug/L	0.007	5	100	1361	2	Standard
Sb	123	0.139	ug/L	0.011	7	80	1154	4	Standard
> Tb	159		ug/L			813940	714486	0	Standard
Tl	205	0.004	ug/L	0.001	25	100	299	17	Standard
Pb	208	0.047	ug/L	0.001	1	382	3216	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0517-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 08:51:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			21279	60070	2	Standard
Cl	37		ug/L			7668033	39172094	3	Standard
> Sc	45		ug/L			335348	512870	0	Standard
Cr	52	20.860	ug/L	0.371	1	13974	477390	2	Standard
Cr	53	43.991	ug/L	0.593	1	180	114182	1	Standard
Mn	55	863.099	ug/L	12.197	1	831	27758344	1	Standard
> Ge	72		ug/L			22938	22300	2	KED
Ni	60	33.015	ug/L	1.940	5	14	42800	3	KED
Ni	62	33.241	ug/L	1.068	3	3	7191	4	KED
Cu	63	20.663	ug/L	0.461	2	48	79269	1	KED
Cu	65	21.057	ug/L	0.794	3	30	40845	1	KED
Zn	66	61.045	ug/L	1.121	1	42	27744	0	KED
Zn	67	65.994	ug/L	1.529	2	4	4870	1	KED
As	75	24.032	ug/L	0.828	3	4	5654	1	KED
Se	78	72.193	ug/L	2.655	3	9	1547	2	KED
Y	89		ug/L			181698	185183	4	Standard
Kr	83		ug/L			48	211	4	Standard
> In-1	115		ug/L			5567	5349	1	KED
Cd	111	21.835	ug/L	0.321	1	5	5467	3	KED
Cd	114	21.471	ug/L	0.035	0	4	13855	1	KED
> In	115		ug/L			308178	231462	2	Standard
Sb	121	25.489	ug/L	0.423	1	100	243070	0	Standard
Sb	123	24.789	ug/L	0.504	2	80	185532	0	Standard
> Tb	159		ug/L			813940	686105	3	Standard
Tl	205	20.971	ug/L	0.582	2	100	960862	1	Standard
Pb	208	20.643	ug/L	0.633	3	382	1211898	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0517-MSD1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 08:56:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			21279	63191	1	Standard
Cl	37		ug/L			7668033	41576711	3	Standard
> Sc	45		ug/L			335348	526257	0	Standard
Cr	52	21.441	ug/L	0.203	0	13974	502844	0	Standard
Cr	53	45.284	ug/L	0.539	1	180	120587	0	Standard
Mn	55	886.698	ug/L	22.645	2	831	29263853	3	Standard
> Ge	72		ug/L			22938	22960	2	KED
Ni	60	33.223	ug/L	0.770	2	14	44374	2	KED
Ni	62	33.241	ug/L	0.653	1	3	7401	1	KED
Cu	63	20.425	ug/L	0.385	1	48	80672	0	KED
Cu	65	20.646	ug/L	0.355	1	30	41244	0	KED
Zn	66	60.978	ug/L	1.305	2	42	28532	0	KED
Zn	67	64.311	ug/L	2.957	4	4	4885	2	KED
As	75	23.651	ug/L	0.476	2	4	5730	0	KED
Se	78	72.446	ug/L	2.854	3	9	1598	1	KED
Y	89		ug/L			181698	186001	0	Standard
Kr	83		ug/L			48	201	13	Standard
> In-1	115		ug/L			5567	5544	1	KED
Cd	111	21.732	ug/L	0.373	1	5	5638	1	KED
Cd	114	21.063	ug/L	0.314	1	4	14088	2	KED
> In	115		ug/L			308178	229059	2	Standard
Sb	121	26.156	ug/L	0.542	2	100	246846	2	Standard
Sb	123	24.934	ug/L	0.017	0	80	184727	2	Standard
> Tb	159		ug/L			813940	694583	1	Standard
Tl	205	21.689	ug/L	0.196	0	100	1006775	2	Standard
Pb	208	20.651	ug/L	0.315	1	382	1228138	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLK
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 09:01:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	22204	1	Standard
	Cl	**37**		ug/L			7668033	8556913	1	Standard
⌈>	**Sc**	**45**		ug/L			335348	375847	0	Standard
|	**Cr**	**52**	**0.136**	ug/L	0.015	11	13974	17842	2	Standard
|	**Cr**	**53**	**3.697**	ug/L	0.094	2	180	7216	1	Standard
⌊	**Mn**	**55**	**0.023**	ug/L	0.002	7	831	1462	2	Standard
⌈>	**Ge**	**72**		ug/L			22938	24387	0	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.002	61	14	10	26	KED
|	**Ni**	**62**	**-0.004**	ug/L	0.009	252	3	3	69	KED
|	**Cu**	**63**	**0.004**	ug/L	0.003	88	48	67	20	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.001	22	30	27	4	KED
|	**Zn**	**66**	**-0.035**	ug/L	0.025	72	42	27	44	KED
|	**Zn**	**67**	**0.044**	ug/L	0.049	112	4	8	48	KED
|	**As**	**75**	**-0.004**	ug/L	0.003	67	4	3	19	KED
⌊	**Se**	**78**	**0.246**	ug/L	0.075	30	9	15	10	KED
	Y	**89**		ug/L			181698	191533	1	Standard
	Kr	**83**		ug/L			48	42	15	Standard
⌈>	**In-1**	**115**		ug/L			5567	5977	1	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.015	3768	5	5	72	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.000	1	4	1	2	KED
⌈>	**In**	**115**		ug/L			308178	281081	1	Standard
|	**Sb**	**121**	**-0.003**	ug/L	0.001	40	100	59	23	Standard
⌊	**Sb**	**123**	**-0.002**	ug/L	0.001	62	80	55	19	Standard
⌈>	**Tb**	**159**		ug/L			813940	788300	2	Standard
|	**Tl**	**205**	**0.006**	ug/L	0.000	5	100	390	5	Standard
⌊	**Pb**	**208**	**0.007**	ug/L	0.000	5	382	840	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVJ
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 09:05:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	22155	3	Standard
	Cl	**37**		ug/L			7668033	8577259	0	Standard
>	**Sc**	**45**		ug/L			335348	383842	1	Standard
	Cr	**52**	**56.256**	ug/L	2.077	3	13974	936158	2	Standard
	Cr	**53**	**58.760**	ug/L	0.683	1	180	114074	1	Standard
	Mn	**55**	**58.093**	ug/L	1.527	2	831	1398912	1	Standard
>	**Ge**	**72**		ug/L			22938	25128	1	KED
	Ni	**60**	**41.658**	ug/L	0.341	0	14	60895	0	KED
	Ni	**62**	**41.883**	ug/L	0.715	1	3	10208	2	KED
	Cu	**63**	**41.315**	ug/L	0.730	1	48	178574	1	KED
	Cu	**65**	**42.364**	ug/L	0.178	0	30	92609	1	KED
	Zn	**66**	**43.277**	ug/L	0.808	1	42	22180	1	KED
	Zn	**67**	**45.116**	ug/L	2.106	4	4	3753	3	KED
	As	**75**	**48.367**	ug/L	0.543	1	4	12822	0	KED
	Se	**78**	**47.960**	ug/L	1.325	2	9	1161	1	KED
	Y	**89**		ug/L			181698	193851	1	Standard
	Kr	**83**		ug/L			48	54	10	Standard
>	**In-1**	**115**		ug/L			5567	5931	2	KED
	Cd	**111**	**49.074**	ug/L	0.744	1	5	13612	0	KED
	Cd	**114**	**47.991**	ug/L	1.249	2	4	34325	2	KED
>	**In**	**115**		ug/L			308178	285130	0	Standard
	Sb	**121**	**53.783**	ug/L	1.239	2	100	631785	1	Standard
	Sb	**123**	**52.818**	ug/L	1.201	2	80	486958	1	Standard
>	**Tb**	**159**		ug/L			813940	803292	1	Standard
	Tl	**205**	**43.207**	ug/L	0.992	2	100	2318599	0	Standard
	Pb	**208**	**46.489**	ug/L	0.800	1	382	3196840	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBJ
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 09:13:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	20473	3	Standard
	Cl	**37**		ug/L			7668033	8262554	2	Standard
⌈>	**Sc**	**45**		ug/L			335348	377888	1	Standard
|	**Cr**	**52**	**0.086**	ug/L	0.004	4	13974	17135	1	Standard
|	**Cr**	**53**	**1.796**	ug/L	0.027	1	180	3630	1	Standard
⌊	**Mn**	**55**	**0.003**	ug/L	0.001	34	831	1001	2	Standard
⌈>	**Ge**	**72**		ug/L			22938	24724	1	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.001	24	14	6	31	KED
|	**Ni**	**62**	**-0.001**	ug/L	0.014	1175	3	3	86	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.002	48	48	37	20	KED
|	**Cu**	**65**	**-0.007**	ug/L	0.000	6	30	17	6	KED
|	**Zn**	**66**	**-0.051**	ug/L	0.002	4	42	20	5	KED
|	**Zn**	**67**	**-0.004**	ug/L	0.026	593	4	4	49	KED
|	**As**	**75**	**-0.004**	ug/L	0.007	151	4	3	45	KED
⌊	**Se**	**78**	**0.149**	ug/L	0.134	90	9	13	24	KED
	Y	**89**		ug/L			181698	189124	3	Standard
	Kr	**83**		ug/L			48	52	14	Standard
⌈>	**In-1**	**115**		ug/L			5567	6105	1	KED
|	**Cd**	**111**	**-0.009**	ug/L	0.005	57	5	3	41	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.007	2304	4	4	109	KED
⌈>	**In**	**115**		ug/L			308178	289910	2	Standard
|	**Sb**	**121**	**0.007**	ug/L	0.001	7	100	183	5	Standard
⌊	**Sb**	**123**	**0.005**	ug/L	0.001	24	80	123	10	Standard
⌈>	**Tb**	**159**		ug/L			813940	806136	2	Standard
|	**Tl**	**205**	**0.014**	ug/L	0.001	4	100	840	2	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.001	48	382	499	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0575-BLK1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Wednesday, December 28, 2022 09:18:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	32272	1	Standard
	Cl	**37**		ug/L			7668033	8225047	1	Standard
⌈>	**Sc**	**45**		ug/L			335348	388950	0	Standard
|	**Cr**	**52**	**0.180**	ug/L	0.019	10	13974	19189	1	Standard
|	**Cr**	**53**	**1.567**	ug/L	0.016	1	180	3285	0	Standard
⌊	**Mn**	**55**	**0.068**	ug/L	0.002	2	831	2619	1	Standard
⌈>	**Ge**	**72**		ug/L			22938	24398	2	KED
|	**Ni**	**60**	**0.001**	ug/L	0.008	676	14	17	61	KED
|	**Ni**	**62**	**0.002**	ug/L	0.009	573	3	4	49	KED
|	**Cu**	**63**	**0.009**	ug/L	0.001	11	48	89	7	KED
|	**Cu**	**65**	**0.011**	ug/L	0.006	52	30	56	20	KED
|	**Zn**	**66**	**0.118**	ug/L	0.035	29	42	103	14	KED
|	**Zn**	**67**	**0.148**	ug/L	0.099	67	4	16	46	KED
|	**As**	**75**	**0.003**	ug/L	0.006	219	4	5	26	KED
⌊	**Se**	**78**	**0.084**	ug/L	0.122	145	9	11	22	KED
	Y	**89**		ug/L			181698	190191	0	Standard
	Kr	**83**		ug/L			48	52	22	Standard
⌈>	**In-1**	**115**		ug/L			5567	6008	2	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.004	52	5	3	25	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.002	49	4	2	50	KED
⌈>	**In**	**115**		ug/L			308178	297696	3	Standard
|	**Sb**	**121**	**0.002**	ug/L	0.001	38	100	121	3	Standard
⌊	**Sb**	**123**	**0.001**	ug/L	0.002	461	80	82	24	Standard
⌈>	**Tb**	**159**		ug/L			813940	815870	0	Standard
|	**Tl**	**205**	**0.002**	ug/L	0.000	20	100	224	11	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.001	811	382	377	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0575-BS1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Wednesday, December 28, 2022 09:22:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	33828	1	Standard
	Cl	**37**		ug/L			7668033	8179766	1	Standard
⌈>	**Sc**	**45**		ug/L			335348	400313	4	Standard
|	**Cr**	**52**	**28.585**	ug/L	1.076	3	13974	503881	1	Standard
|	**Cr**	**53**	**28.923**	ug/L	1.107	3	180	58601	1	Standard
⌊	**Mn**	**55**	**29.161**	ug/L	1.194	4	831	732122	1	Standard
⌈>	**Ge**	**72**		ug/L			22938	24176	2	KED
|	**Ni**	**60**	**21.564**	ug/L	0.582	2	14	30322	1	KED
|	**Ni**	**62**	**21.677**	ug/L	1.263	5	3	5080	3	KED
|	**Cu**	**63**	**22.096**	ug/L	0.737	3	48	91870	1	KED
|	**Cu**	**65**	**22.455**	ug/L	0.465	2	30	47225	0	KED
|	**Zn**	**66**	**70.125**	ug/L	3.093	4	42	34527	1	KED
|	**Zn**	**67**	**67.415**	ug/L	1.915	2	4	5392	0	KED
|	**As**	**75**	**24.283**	ug/L	0.929	3	4	6192	1	KED
⌊	**Se**	**78**	**75.782**	ug/L	3.396	4	9	1759	1	KED
	Y	**89**		ug/L			181698	196636	3	Standard
	Kr	**83**		ug/L			48	62	17	Standard
⌈>	**In-1**	**115**		ug/L			5567	5914	1	KED
|	**Cd**	**111**	**23.718**	ug/L	0.465	1	5	6563	0	KED
⌊	**Cd**	**114**	**23.998**	ug/L	0.401	1	4	17118	0	KED
⌈>	**In**	**115**		ug/L			308178	304038	4	Standard
|	**Sb**	**121**	**-0.001**	ug/L	0.001	60	100	82	9	Standard
⌊	**Sb**	**123**	**-0.001**	ug/L	0.001	103	80	68	13	Standard
⌈>	**Tb**	**159**		ug/L			813940	836362	0	Standard
|	**Tl**	**205**	**23.579**	ug/L	0.085	0	100	1317767	0	Standard
⌊	**Pb**	**208**	**23.958**	ug/L	0.337	1	382	1715662	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0187-04
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Wednesday, December 28, 2022 09:27:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	50938	1	Standard
	Cl	**37**		ug/L			7668033	44885900	4	Standard
⌈>	**Sc**	**45**		ug/L			335348	392762	1	Standard
|	**Cr**	**52**	**5.405**	ug/L	0.174	3	13974	106827	1	Standard
|	**Cr**	**53**	**42.270**	ug/L	1.011	2	180	84007	1	Standard
⌊	**Mn**	**55**	**97.436**	ug/L	1.748	1	831	2400089	0	Standard
⌈>	**Ge**	**72**		ug/L			22938	21269	1	KED
|	**Ni**	**60**	**1.958**	ug/L	0.019	0	14	2435	1	KED
|	**Ni**	**62**	**2.136**	ug/L	0.085	3	3	443	3	KED
|	**Cu**	**63**	**15.403**	ug/L	0.305	1	48	56372	0	KED
|	**Cu**	**65**	**15.432**	ug/L	0.561	3	30	28562	2	KED
|	**Zn**	**66**	**92.354**	ug/L	0.286	0	42	40022	1	KED
|	**Zn**	**67**	**95.956**	ug/L	0.072	0	4	6754	1	KED
|	**As**	**75**	**1.394**	ug/L	0.056	4	4	316	2	KED
⌊	**Se**	**78**	**0.560**	ug/L	0.179	31	9	20	17	KED
	Y	**89**		ug/L			181698	172146	4	Standard
	Kr	**83**		ug/L			48	1291	10	Standard
⌈>	**In-1**	**115**		ug/L			5567	5169	1	KED
|	**Cd**	**111**	**0.233**	ug/L	0.006	2	5	61	2	KED
⌊	**Cd**	**114**	**0.243**	ug/L	0.023	9	4	155	9	KED
⌈>	**In**	**115**		ug/L			308178	223532	2	Standard
|	**Sb**	**121**	**2.512**	ug/L	0.029	1	100	23197	1	Standard
⌊	**Sb**	**123**	**2.387**	ug/L	0.045	1	80	17306	1	Standard
⌈>	**Tb**	**159**		ug/L			813940	666104	0	Standard
|	**Tl**	**205**	**0.008**	ug/L	0.001	9	100	460	8	Standard
⌊	**Pb**	**208**	**0.405**	ug/L	0.007	1	382	23422	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0187-02
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Wednesday, December 28, 2022 09:32:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	52649	1	Standard
	Cl	**37**		ug/L			7668033	63002158	2	Standard
⌈>	**Sc**	**45**		ug/L			335348	387529	2	Standard
|	**Cr**	**52**	**1.637**	ug/L	0.010	0	13974	43184	1	Standard
|	**Cr**	**53**	**38.763**	ug/L	0.742	1	180	76031	1	Standard
⌊	**Mn**	**55**	**148.518**	ug/L	1.139	0	831	3609854	2	Standard
⌈>	**Ge**	**72**		ug/L			22938	20310	1	KED
|	**Ni**	**60**	**2.512**	ug/L	0.132	5	14	2979	5	KED
|	**Ni**	**62**	**2.950**	ug/L	0.185	6	3	584	5	KED
|	**Cu**	**63**	**13.746**	ug/L	0.031	0	48	48054	0	KED
|	**Cu**	**65**	**14.061**	ug/L	0.113	0	30	24863	1	KED
|	**Zn**	**66**	**87.151**	ug/L	1.174	1	42	36065	0	KED
|	**Zn**	**67**	**94.582**	ug/L	1.837	1	4	6356	1	KED
|	**As**	**75**	**1.279**	ug/L	0.046	3	4	277	2	KED
⌊	**Se**	**78**	**0.480**	ug/L	0.078	16	9	17	9	KED
	Y	**89**		ug/L			181698	170337	1	Standard
	Kr	**83**		ug/L			48	3572	3	Standard
⌈>	**In-1**	**115**		ug/L			5567	4720	0	KED
|	**Cd**	**111**	**0.385**	ug/L	0.044	11	5	89	10	KED
⌊	**Cd**	**114**	**0.357**	ug/L	0.002	0	4	207	0	KED
⌈>	**In**	**115**		ug/L			308178	217214	3	Standard
|	**Sb**	**121**	**2.903**	ug/L	0.058	1	100	26039	1	Standard
⌊	**Sb**	**123**	**2.790**	ug/L	0.110	3	80	19639	0	Standard
⌈>	**Tb**	**159**		ug/L			813940	656494	1	Standard
|	**Tl**	**205**	**0.010**	ug/L	0.001	8	100	530	7	Standard
⌊	**Pb**	**208**	**0.577**	ug/L	0.020	3	382	32728	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0575-DUP1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Wednesday, December 28, 2022 09:37:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	53109	5	Standard
	Cl	**37**		ug/L			7668033	63385306	1	Standard
⌈>	**Sc**	**45**		ug/L			335348	385771	0	Standard
|	**Cr**	**52**	**1.624**	ug/L	0.017	1	13974	42775	0	Standard
|	**Cr**	**53**	**38.781**	ug/L	0.621	1	180	75728	0	Standard
⌊	**Mn**	**55**	**151.469**	ug/L	1.798	1	831	3664702	0	Standard
⌈>	**Ge**	**72**		ug/L			22938	20379	2	KED
|	**Ni**	**60**	**2.652**	ug/L	0.043	1	14	3155	1	KED
|	**Ni**	**62**	**3.105**	ug/L	0.130	4	3	617	6	KED
|	**Cu**	**63**	**14.213**	ug/L	0.095	0	48	49849	1	KED
|	**Cu**	**65**	**14.495**	ug/L	0.187	1	30	25711	1	KED
|	**Zn**	**66**	**88.804**	ug/L	2.411	2	42	36862	0	KED
|	**Zn**	**67**	**96.130**	ug/L	3.843	3	4	6480	2	KED
|	**As**	**75**	**1.298**	ug/L	0.024	1	4	282	0	KED
⌊	**Se**	**78**	**0.667**	ug/L	0.061	9	9	21	3	KED
	Y	**89**		ug/L			181698	169297	1	Standard
	Kr	**83**		ug/L			48	3461	0	Standard
⌈>	**In-1**	**115**		ug/L			5567	4785	3	KED
|	**Cd**	**111**	**0.386**	ug/L	0.053	13	5	90	11	KED
⌊	**Cd**	**114**	**0.345**	ug/L	0.014	4	4	202	1	KED
⌈>	**In**	**115**		ug/L			308178	220205	0	Standard
|	**Sb**	**121**	**2.909**	ug/L	0.026	0	100	26465	1	Standard
⌊	**Sb**	**123**	**2.831**	ug/L	0.020	0	80	20216	0	Standard
⌈>	**Tb**	**159**		ug/L			813940	659700	2	Standard
|	**Tl**	**205**	**0.009**	ug/L	0.000	2	100	473	4	Standard
⌊	**Pb**	**208**	**0.586**	ug/L	0.008	1	382	33413	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0575-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 09:42:08

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	54100	1	Standard
	Cl	**37**		ug/L			7668033	64759451	2	Standard
>	**Sc**	**45**		ug/L			335348	398593	0	Standard
	Cr	**52**	**25.792**	ug/L	0.136	0	13974	454779	0	Standard
	Cr	**53**	**60.429**	ug/L	0.179	0	180	121816	1	Standard
	Mn	**55**	**168.488**	ug/L	1.261	0	831	4212216	1	Standard
>	**Ge**	**72**		ug/L			22938	20302	0	KED
	Ni	**60**	**23.198**	ug/L	0.498	2	14	27404	2	KED
	Ni	**62**	**24.291**	ug/L	0.372	1	3	4784	1	KED
	Cu	**63**	**34.446**	ug/L	0.467	1	48	120308	1	KED
	Cu	**65**	**34.766**	ug/L	0.677	1	30	61411	2	KED
	Zn	**66**	**146.424**	ug/L	1.844	1	42	60549	1	KED
	Zn	**67**	**151.940**	ug/L	1.063	0	4	10206	0	KED
	As	**75**	**24.720**	ug/L	0.079	0	4	5297	0	KED
	Se	**78**	**66.954**	ug/L	1.919	2	9	1307	2	KED
	Y	**89**		ug/L			181698	170684	3	Standard
	Kr	**83**		ug/L			48	4572	5	Standard
>	**In-1**	**115**		ug/L			5567	4683	1	KED
	Cd	**111**	**20.646**	ug/L	0.125	0	5	4525	1	KED
	Cd	**114**	**20.444**	ug/L	0.202	0	4	11550	1	KED
>	**In**	**115**		ug/L			308178	226980	1	Standard
	Sb	**121**	**2.856**	ug/L	0.045	1	100	26773	1	Standard
	Sb	**123**	**2.753**	ug/L	0.030	1	80	20260	0	Standard
>	**Tb**	**159**		ug/L			813940	672515	2	Standard
	Tl	**205**	**21.164**	ug/L	0.648	3	100	950887	2	Standard
	Pb	**208**	**21.043**	ug/L	0.306	1	382	1211586	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0495-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 09:47:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	35307	2	Standard
	Cl	**37**		ug/L			7668033	9228193	1	Standard
⌈>	**Sc**	**45**		ug/L			335348	388890	1	Standard
|	**Cr**	**52**	**0.842**	ug/L	0.065	7	13974	30163	3	Standard
|	**Cr**	**53**	**7.475**	ug/L	0.107	1	180	14883	0	Standard
⌊	**Mn**	**55**	**5.676**	ug/L	0.083	1	831	139354	0	Standard
⌈>	**Ge**	**72**		ug/L			22938	24643	2	KED
|	**Ni**	**60**	**0.327**	ug/L	0.025	7	14	483	7	KED
|	**Ni**	**62**	**0.455**	ug/L	0.051	11	3	113	12	KED
|	**Cu**	**63**	**2.053**	ug/L	0.021	1	48	8755	2	KED
|	**Cu**	**65**	**2.051**	ug/L	0.033	1	30	4426	1	KED
|	**Zn**	**66**	**181.046**	ug/L	2.603	1	42	90846	1	KED
|	**Zn**	**67**	**174.850**	ug/L	1.555	0	4	14254	1	KED
|	**As**	**75**	**0.224**	ug/L	0.020	8	4	63	10	KED
⌊	**Se**	**78**	**0.205**	ug/L	0.152	74	9	14	26	KED
	Y	**89**		ug/L			181698	199136	0	Standard
	Kr	**83**		ug/L			48	62	14	Standard
⌈>	**In-1**	**115**		ug/L			5567	6134	2	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.004	481	5	5	16	KED
⌊	**Cd**	**114**	**0.012**	ug/L	0.004	30	4	13	20	KED
⌈>	**In**	**115**		ug/L			308178	284753	1	Standard
|	**Sb**	**121**	**0.217**	ug/L	0.004	2	100	2637	3	Standard
⌊	**Sb**	**123**	**0.207**	ug/L	0.013	6	80	1978	4	Standard
⌈>	**Tb**	**159**		ug/L			813940	791785	0	Standard
|	**Tl**	**205**	**0.006**	ug/L	0.001	9	100	421	7	Standard
⌊	**Pb**	**208**	**0.017**	ug/L	0.001	3	382	1511	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0149-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 09:52:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			21279	36193	0	Standard
	Cl	37		ug/L			7668033	8708845	1	Standard
>	Sc	45		ug/L			335348	381985	1	Standard
	Cr	52	1.002	ug/L	0.022	2	13974	32222	0	Standard
	Cr	53	5.394	ug/L	0.090	1	180	10607	0	Standard
	Mn	55	21.121	ug/L	0.203	0	831	506858	1	Standard
>	Ge	72		ug/L			22938	23747	1	KED
	Ni	60	0.558	ug/L	0.034	6	14	786	4	KED
	Ni	62	0.727	ug/L	0.024	3	3	171	3	KED
	Cu	63	6.367	ug/L	0.091	1	48	26049	0	KED
	Cu	65	6.472	ug/L	0.097	1	30	13394	0	KED
	Zn	66	594.490	ug/L	3.251	0	42	287406	1	KED
	Zn	67	576.157	ug/L	12.290	2	4	45264	3	KED
	As	75	0.585	ug/L	0.031	5	4	151	5	KED
	Se	78	0.279	ug/L	0.118	42	9	16	16	KED
	Y	89		ug/L			181698	192607	0	Standard
	Kr	83		ug/L			48	66	8	Standard
>	In-1	115		ug/L			5567	5898	2	KED
	Cd	111	1.508	ug/L	0.099	6	5	421	4	KED
	Cd	114	1.478	ug/L	0.093	6	4	1054	3	KED
>	In	115		ug/L			308178	272462	1	Standard
	Sb	121	1.121	ug/L	0.020	1	100	12672	1	Standard
	Sb	123	1.078	ug/L	0.047	4	80	9566	2	Standard
>	Tb	159		ug/L			813940	768713	0	Standard
	Tl	205	0.009	ug/L	0.001	10	100	583	9	Standard
	Pb	208	1.429	ug/L	0.020	1	382	94425	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0213-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 09:57:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	31705	3	Standard
	Cl	**37**		ug/L			7668033	8377720	2	Standard
⌈>	**Sc**	**45**		ug/L			335348	404589	2	Standard
|	**Cr**	**52**	**4.738**	ug/L	0.171	3	13974	98509	0	Standard
|	**Cr**	**53**	**7.543**	ug/L	0.190	2	180	15618	0	Standard
⌊	**Mn**	**55**	**43.084**	ug/L	0.205	0	831	1093934	2	Standard
⌈>	**Ge**	**72**		ug/L			22938	23561	1	KED
|	**Ni**	**60**	**12.842**	ug/L	0.177	1	14	17609	0	KED
|	**Ni**	**62**	**12.903**	ug/L	0.290	2	3	2950	1	KED
|	**Cu**	**63**	**34.326**	ug/L	0.804	2	48	139099	1	KED
|	**Cu**	**65**	**34.896**	ug/L	0.453	1	30	71527	1	KED
|	**Zn**	**66**	**34.593**	ug/L	0.734	2	42	16631	1	KED
|	**Zn**	**67**	**33.476**	ug/L	0.434	1	4	2612	0	KED
|	**As**	**75**	**0.114**	ug/L	0.026	22	4	32	18	KED
⌊	**Se**	**78**	**0.179**	ug/L	0.105	58	9	13	16	KED
	Y	**89**		ug/L			181698	210737	0	Standard
	Kr	**83**		ug/L			48	72	4	Standard
⌈>	**In-1**	**115**		ug/L			5567	5964	1	KED
|	**Cd**	**111**	**0.003**	ug/L	0.006	188	5	6	24	KED
⌊	**Cd**	**114**	**0.013**	ug/L	0.009	67	4	13	45	KED
⌈>	**In**	**115**		ug/L			308178	280178	1	Standard
|	**Sb**	**121**	**0.282**	ug/L	0.006	2	100	3341	1	Standard
⌊	**Sb**	**123**	**0.278**	ug/L	0.010	3	80	2587	1	Standard
⌈>	**Tb**	**159**		ug/L			813940	788107	1	Standard
|	**Tl**	**205**	**0.018**	ug/L	0.001	3	100	1024	3	Standard
⌊	**Pb**	**208**	**8.442**	ug/L	0.146	1	382	569871	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLL
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 10:02:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	21144	2	Standard
	Cl	**37**		ug/L			7668033	7856309	1	Standard
⌈>	**Sc**	**45**		ug/L			335348	371362	1	Standard
|	**Cr**	**52**	**0.136**	ug/L	0.011	8	13974	17620	1	Standard
|	**Cr**	**53**	**1.605**	ug/L	0.080	4	180	3207	3	Standard
⌊	**Mn**	**55**	**0.010**	ug/L	0.001	8	831	1143	2	Standard
⌈>	**Ge**	**72**		ug/L			22938	23962	3	KED
|	**Ni**	**60**	**-0.008**	ug/L	0.001	10	14	4	24	KED
|	**Ni**	**62**	**0.126**	ug/L	0.029	23	3	33	17	KED
|	**Cu**	**63**	**0.004**	ug/L	0.002	57	48	67	11	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.004	244	30	28	26	KED
|	**Zn**	**66**	**-0.021**	ug/L	0.002	9	42	34	5	KED
|	**Zn**	**67**	**-0.019**	ug/L	0.013	71	4	3	34	KED
|	**As**	**75**	**-0.003**	ug/L	0.009	306	4	3	56	KED
⌊	**Se**	**78**	**0.085**	ug/L	0.104	121	9	11	19	KED
	Y	**89**		ug/L			181698	187604	1	Standard
	Kr	**83**		ug/L			48	53	24	Standard
⌈>	**In-1**	**115**		ug/L			5567	6023	2	KED
|	**Cd**	**111**	**-0.011**	ug/L	0.003	30	5	2	33	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.000	11	4	3	2	KED
⌈>	**In**	**115**		ug/L			308178	276961	0	Standard
|	**Sb**	**121**	**-0.005**	ug/L	0.000	3	100	36	5	Standard
⌊	**Sb**	**123**	**-0.005**	ug/L	0.002	30	80	28	47	Standard
⌈>	**Tb**	**159**		ug/L			813940	756277	0	Standard
|	**Tl**	**205**	**0.008**	ug/L	0.000	1	100	507	0	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.001	545	382	365	15	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVK
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 10:06:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			21279	20672	2	Standard
	Cl	37		ug/L			7668033	8221887	1	Standard
>	Sc	45		ug/L			335348	379116	2	Standard
	Cr	52	58.756	ug/L	2.570	4	13974	964776	3	Standard
	Cr	53	60.383	ug/L	1.611	2	180	115731	0	Standard
	Mn	55	59.873	ug/L	2.516	4	831	1423349	1	Standard
>	Ge	72		ug/L			22938	23642	1	KED
	Ni	60	41.352	ug/L	1.727	4	14	56844	2	KED
	Ni	62	41.023	ug/L	0.838	2	3	9405	1	KED
	Cu	63	41.821	ug/L	0.016	0	48	170084	2	KED
	Cu	65	42.304	ug/L	0.561	1	30	86995	0	KED
	Zn	66	43.905	ug/L	0.740	1	42	21168	0	KED
	Zn	67	44.740	ug/L	0.525	1	4	3502	1	KED
	As	75	49.926	ug/L	0.776	1	4	12451	1	KED
	Se	78	49.385	ug/L	3.337	6	9	1124	4	KED
	Y	89		ug/L			181698	190960	1	Standard
	Kr	83		ug/L			48	55	11	Standard
>	In-1	115		ug/L			5567	5870	1	KED
	Cd	111	47.566	ug/L	0.685	1	5	13059	0	KED
	Cd	114	47.137	ug/L	0.418	0	4	33380	2	KED
>	In	115		ug/L			308178	272658	0	Standard
	Sb	121	53.888	ug/L	0.389	0	100	605382	0	Standard
	Sb	123	52.485	ug/L	1.251	2	80	462744	1	Standard
>	Tb	159		ug/L			813940	771829	1	Standard
	Tl	205	42.826	ug/L	1.951	4	100	2207626	3	Standard
	Pb	208	46.803	ug/L	0.772	1	382	3092351	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBK
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 10:14:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	19365	2	Standard
	Cl	**37**		ug/L			7668033	7829154	0	Standard
⌈>	**Sc**	**45**		ug/L			335348	365234	0	Standard
|	**Cr**	**52**	**0.122**	ug/L	0.007	6	13974	17114	1	Standard
|	**Cr**	**53**	**0.980**	ug/L	0.029	2	180	2003	3	Standard
⌊	**Mn**	**55**	**0.000**	ug/L	0.000	127	831	913	1	Standard
⌈>	**Ge**	**72**		ug/L			22938	23535	1	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.002	36	14	6	41	KED
|	**Ni**	**62**	**0.094**	ug/L	0.014	14	3	25	11	KED
|	**Cu**	**63**	**-0.000**	ug/L	0.004	2087	48	49	29	KED
|	**Cu**	**65**	**-0.004**	ug/L	0.005	100	30	22	43	KED
|	**Zn**	**66**	**-0.047**	ug/L	0.006	13	42	20	15	KED
|	**Zn**	**67**	**-0.002**	ug/L	0.055	2732	4	4	98	KED
|	**As**	**75**	**-0.009**	ug/L	0.006	66	4	2	60	KED
⌊	**Se**	**78**	**0.087**	ug/L	0.070	80	9	11	12	KED
	Y	**89**		ug/L			181698	188950	1	Standard
	Kr	**83**		ug/L			48	47	12	Standard
⌈>	**In-1**	**115**		ug/L			5567	6070	4	KED
|	**Cd**	**111**	**0.002**	ug/L	0.006	330	5	6	22	KED
⌊	**Cd**	**114**	**0.005**	ug/L	0.004	78	4	8	35	KED
⌈>	**In**	**115**		ug/L			308178	277655	0	Standard
|	**Sb**	**121**	**0.006**	ug/L	0.001	22	100	161	10	Standard
⌊	**Sb**	**123**	**0.006**	ug/L	0.001	15	80	125	6	Standard
⌈>	**Tb**	**159**		ug/L			813940	764818	1	Standard
|	**Tl**	**205**	**0.010**	ug/L	0.000	4	100	587	2	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.001	65	382	306	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 10:19:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	28662	1	Standard
	Cl	**37**		ug/L			7668033	7940948	1	Standard
⌈>	**Sc**	**45**		ug/L			335348	420471	0	Standard
|	**Cr**	**52**	**0.143**	ug/L	0.023	16	13974	20092	2	Standard
|	**Cr**	**53**	**0.781**	ug/L	0.003	0	180	1883	0	Standard
⌊	**Mn**	**55**	**0.047**	ug/L	0.003	5	831	2279	2	Standard
⌈>	**Ge**	**72**		ug/L			22938	25275	1	KED
|	**Ni**	**60**	**0.004**	ug/L	0.002	56	14	21	13	KED
|	**Ni**	**62**	**0.102**	ug/L	0.012	11	3	29	9	KED
|	**Cu**	**63**	**0.006**	ug/L	0.005	90	48	78	28	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.007	192	30	26	53	KED
|	**Zn**	**66**	**0.040**	ug/L	0.011	28	42	67	8	KED
|	**Zn**	**67**	**0.071**	ug/L	0.014	19	4	10	10	KED
|	**As**	**75**	**-0.006**	ug/L	0.005	79	4	3	37	KED
⌊	**Se**	**78**	**0.182**	ug/L	0.079	43	9	14	12	KED
	Y	**89**		ug/L			181698	219616	3	Standard
	Kr	**83**		ug/L			48	52	7	Standard
⌈>	**In-1**	**115**		ug/L			5567	6641	1	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.004	49	5	4	26	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.002	132	4	3	52	KED
⌈>	**In**	**115**		ug/L			308178	310173	1	Standard
|	**Sb**	**121**	**0.004**	ug/L	0.001	14	100	147	3	Standard
⌊	**Sb**	**123**	**0.003**	ug/L	0.003	114	80	108	27	Standard
⌈>	**Tb**	**159**		ug/L			813940	851139	2	Standard
|	**Tl**	**205**	**0.005**	ug/L	0.001	14	100	398	9	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	5	382	606	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 10:23:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	28711	1	Standard
	Cl	**37**		ug/L			7668033	7905080	1	Standard
⌈>	**Sc**	**45**		ug/L			335348	422477	0	Standard
|	**Cr**	**52**	**0.124**	ug/L	0.010	8	13974	19842	0	Standard
|	**Cr**	**53**	**0.668**	ug/L	0.021	3	180	1651	2	Standard
⌊	**Mn**	**55**	**0.045**	ug/L	0.002	4	831	2240	2	Standard
⌈>	**Ge**	**72**		ug/L			22938	24810	1	KED
|	**Ni**	**60**	**0.006**	ug/L	0.004	73	14	24	24	KED
|	**Ni**	**62**	**0.094**	ug/L	0.015	16	3	26	14	KED
|	**Cu**	**63**	**0.006**	ug/L	0.005	82	48	78	28	KED
|	**Cu**	**65**	**0.002**	ug/L	0.002	124	30	36	10	KED
|	**Zn**	**66**	**0.057**	ug/L	0.049	86	42	74	34	KED
|	**Zn**	**67**	**0.112**	ug/L	0.059	52	4	13	34	KED
|	**As**	**75**	**-0.000**	ug/L	0.005	2886	4	4	26	KED
⌊	**Se**	**78**	**0.182**	ug/L	0.105	57	9	14	18	KED
	Y	**89**		ug/L			181698	216678	3	Standard
	Kr	**83**		ug/L			48	53	3	Standard
⌈>	**In-1**	**115**		ug/L			5567	6591	3	KED
|	**Cd**	**111**	**-0.008**	ug/L	0.003	40	5	3	25	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.003	223	4	4	57	KED
⌈>	**In**	**115**		ug/L			308178	312598	0	Standard
|	**Sb**	**121**	**0.000**	ug/L	0.002	734	100	105	25	Standard
⌊	**Sb**	**123**	**-0.002**	ug/L	0.001	73	80	65	16	Standard
⌈>	**Tb**	**159**		ug/L			813940	845118	0	Standard
|	**Tl**	**205**	**0.003**	ug/L	0.001	20	100	282	12	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.001	20	382	578	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 10:28:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	28100	1	Standard
	Cl	**37**		ug/L			7668033	7822874	1	Standard
⌈>	**Sc**	**45**		ug/L			335348	411141	1	Standard
|	**Cr**	**52**	**0.160**	ug/L	0.020	12	13974	19934	1	Standard
|	**Cr**	**53**	**0.629**	ug/L	0.038	6	180	1526	3	Standard
⌊	**Mn**	**55**	**0.046**	ug/L	0.002	5	831	2205	1	Standard
⌈>	**Ge**	**72**		ug/L			22938	24872	2	KED
|	**Ni**	**60**	**0.003**	ug/L	0.007	219	14	20	48	KED
|	**Ni**	**62**	**0.056**	ug/L	0.022	38	3	17	30	KED
|	**Cu**	**63**	**0.004**	ug/L	0.004	84	48	70	18	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.001	45	30	29	3	KED
|	**Zn**	**66**	**0.074**	ug/L	0.038	51	42	83	21	KED
|	**Zn**	**67**	**0.103**	ug/L	0.058	56	4	13	37	KED
|	**As**	**75**	**-0.006**	ug/L	0.003	49	4	3	22	KED
⌊	**Se**	**78**	**0.168**	ug/L	0.083	49	9	14	14	KED
	Y	**89**		ug/L			181698	207104	1	Standard
	Kr	**83**		ug/L			48	49	6	Standard
⌈>	**In-1**	**115**		ug/L			5567	6642	1	KED
|	**Cd**	**111**	**-0.005**	ug/L	0.003	58	5	4	20	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.003	70	4	2	92	KED
⌈>	**In**	**115**		ug/L			308178	307009	2	Standard
|	**Sb**	**121**	**-0.004**	ug/L	0.000	12	100	54	11	Standard
⌊	**Sb**	**123**	**-0.001**	ug/L	0.001	117	80	70	14	Standard
⌈>	**Tb**	**159**		ug/L			813940	835245	3	Standard
|	**Tl**	**205**	**0.002**	ug/L	0.000	6	100	211	5	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.001	28	382	573	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 10:33:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	19163	3	Standard
	Cl	**37**		ug/L			7668033	7474456	1	Standard
⌈>	**Sc**	**45**		ug/L			335348	341688	3	Standard
|	**Cr**	**52**	**0.078**	ug/L	0.034	44	13974	15365	1	Standard
|	**Cr**	**53**	**0.704**	ug/L	0.032	4	180	1397	3	Standard
⌊	**Mn**	**55**	**0.026**	ug/L	0.002	8	831	1400	2	Standard
⌈>	**Ge**	**72**		ug/L			22938	23240	1	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.002	26	14	6	34	KED
|	**Ni**	**62**	**0.036**	ug/L	0.034	93	3	12	63	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.002	95	48	41	17	KED
|	**Cu**	**65**	**-0.006**	ug/L	0.001	21	30	18	15	KED
|	**Zn**	**66**	**0.203**	ug/L	0.030	14	42	139	9	KED
|	**Zn**	**67**	**0.189**	ug/L	0.025	13	4	19	10	KED
|	**As**	**75**	**-0.006**	ug/L	0.006	100	4	3	48	KED
⌊	**Se**	**78**	**0.146**	ug/L	0.191	131	9	12	32	KED
	Y	**89**		ug/L			181698	176328	1	Standard
	Kr	**83**		ug/L			48	41	12	Standard
⌈>	**In-1**	**115**		ug/L			5567	6017	2	KED
|	**Cd**	**111**	**-0.011**	ug/L	0.009	80	5	2	88	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.003	191	4	3	51	KED
⌈>	**In**	**115**		ug/L			308178	252112	2	Standard
|	**Sb**	**121**	**-0.004**	ug/L	0.000	6	100	36	5	Standard
⌊	**Sb**	**123**	**-0.004**	ug/L	0.001	14	80	30	16	Standard
⌈>	**Tb**	**159**		ug/L			813940	716491	1	Standard
|	**Tl**	**205**	**0.009**	ug/L	0.001	12	100	543	11	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.000	14	382	171	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 10:38:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	18685	5	Standard
	Cl	**37**		ug/L			7668033	7244205	6	Standard
⌈>	**Sc**	**45**		ug/L			335348	231406	75	Standard
|	**Cr**	**52**	**3.252**	ug/L	5.428	166	13974	14768	8	Standard
|	**Cr**	**53**	**3.126**	ug/L	4.275	136	180	1262	3	Standard
⌊	**Mn**	**55**	**0.187**	ug/L	0.290	155	831	1162	10	Standard
⌈>	**Ge**	**72**		ug/L			22938	23115	1	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.003	52	14	6	56	KED
|	**Ni**	**62**	**0.048**	ug/L	0.011	21	3	14	15	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.003	167	48	41	27	KED
|	**Cu**	**65**	**-0.005**	ug/L	0.005	93	30	20	48	KED
|	**Zn**	**66**	**0.226**	ug/L	0.061	26	42	149	18	KED
|	**Zn**	**67**	**0.199**	ug/L	0.102	51	4	19	39	KED
|	**As**	**75**	**-0.000**	ug/L	0.002	1526	4	4	12	KED
⌊	**Se**	**78**	**0.307**	ug/L	0.153	49	9	16	19	KED
	Y	**89**		ug/L			181698	115078	81	Standard
	Kr	**83**		ug/L			48	82	62	Standard
⌈>	**In-1**	**115**		ug/L			5567	5881	2	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.006	247	5	5	28	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.001	47	4	2	47	KED
⌈>	**In**	**115**		ug/L			308178	170713	80	Standard
|	**Sb**	**121**	**0.041**	ug/L	0.078	190	100	48	31	Standard
⌊	**Sb**	**123**	**0.040**	ug/L	0.078	194	80	33	44	Standard
⌈>	**Tb**	**159**		ug/L			813940	477146	81	Standard
|	**Tl**	**205**	**0.288**	ug/L	0.483	167	100	878	70	Standard
⌊	**Pb**	**208**	**0.013**	ug/L	0.028	211	382	143	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, December 28, 2022 10:43:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\122722.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21279	18674	3	Standard
	Cl	**37**		ug/L			7668033	7585854	1	Standard
⌈>	**Sc**	**45**		ug/L			335348	13123	2	Standard
|	**Cr**	**52**	**27.829**	ug/L	0.770	2	13974	16108	1	Standard
|	**Cr**	**53**	**18.564**	ug/L	0.947	5	180	1236	5	Standard
⌊	**Mn**	**55**	**1.776**	ug/L	0.023	1	831	1494	3	Standard
⌈>	**Ge**	**72**		ug/L			22938	11	16	KED
|	**Ni**	**60**	**64.235**	ug/L	23.841	37	14	41	30	KED
|	**Ni**	**62**	**154.370**	ug/L	57.165	37	3	16	29	KED
|	**Cu**	**63**	**85.387**	ug/L	15.615	18	48	164	4	KED
|	**Cu**	**65**	**104.445**	ug/L	27.516	26	30	100	9	KED
|	**Zn**	**66**	**864.642**	ug/L	241.632	27	42	194	12	KED
|	**Zn**	**67**	**942.968**	ug/L	102.059	10	4	35	17	KED
|	**As**	**75**	**16.499**	ug/L	6.100	36	4	2	48	KED
⌊	**Se**	**78**	**1127.896**	ug/L	154.716	13	9	12	12	KED
	Y	**89**		ug/L			181698	37	25	Standard
	Kr	**83**		ug/L			48	43	17	Standard
⌈>	**In-1**	**115**		ug/L			5567	1	1	KED
|	**Cd**	**111**	**22.419**	ug/L	19.239	85	5	1	86	KED
⌊	**Cd**	**114**	**10.919**	ug/L	13.373	122	4	2	121	KED
⌈>	**In**	**115**		ug/L			308178	81	9	Standard
|	**Sb**	**121**	**17.179**	ug/L	3.916	22	100	57	18	Standard
⌊	**Sb**	**123**	**14.315**	ug/L	1.339	9	80	37	13	Standard
⌈>	**Tb**	**159**		ug/L			813940	161	12	Standard
|	**Tl**	**205**	**39.539**	ug/L	5.648	14	100	420	2	Standard
⌊	**Pb**	**208**	**33.013**	ug/L	2.736	8	382	452	3	Standard

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	GA00017	Instrument:	ICPMS2
Calibration Date:	01/04/2023 14:17		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Lead-208	0	0	0.1	43030	10	41597.4	20	41892.25	50	42429.5	100	42293.21

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory: Analytical Resources, LLC
Instrument: ICPMS2
Calibration: GA00017
Calibration Date: 1/4/2023

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Lead-208	35207.06	49.0	1.0000		0.998	

Analytical Resources, Incorporated
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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/4/22 **Analyst:** MB **Sequence:** SLAΦΦ46 **Cal:** GAΦΦΦ17

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CAL1	LΦ148		
		-CAL2	LΦ149		
		-CAL3	LΦ15Φ		
		-CAL4	LΦ151		
		-CAL5	LΦ152		
		-CAL6	LΦ153		
		-IBL1	—		
		-ICV1	K74Φ3		
		-ICB1	LΦ148		
		-CCV1	LΦ152		
		-CCB1	LΦ148		
		-CRL1	LΦ149		
		-IFA1	K11871		Cr^{53} ↑
		-IFB1	K11683		↓
		-HCV1	K11379		
		-HCV2	K1154Φ		Ag, Zn ↓ - Ag, Zn < 200
		-IBL2&3	—		
		-CCV2			
		-CCB2			
	✓	-CAL1			
		-CCV3			
		-CCB3			
		BKLΦ495-BLK2	SWN	20	Ag only
		↓ -BS2	↓	↓	↓

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/4/22 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BLAΦΦ39-BLK1	REN		
		↓ -BS1	↓		
		23AΦΦΦ7-Φ1		5	
		23AΦΦ21-Φ1		2	
		22LΦ564-Φ1			
		22LΦ565-Φ1			
		22LΦ181-Φ1	↓		Se only
		SEQ-IBL4			(CuT)
		↓ -CCV4			
		↓ -CCB4			
		BLAΦΦ35-BLK1	RHN		
		↓ -BS1	↓		
		↓ -BSD1	↓		
		22LΦ6Φ1-Φ1	REN	2	
		22LΦ6Φ4-Φ1	↓	↓	
		22LΦ383-Φ1	SWN	50	Ag, Cr only
		BKLΦ495-DUP2	↓	↓	↓
		↓ -MS2	↓	↓	
		↓ -MSD2	↓	↓	Ag %R↓
		SEQ-IBL5			(CuT)
		↓ -CCV5			
		↓ -CCB5			
		22LΦ569-Φ2	REN	2	
		↓ -Φ3	↓	↓	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/4/23 **Analyst:** MS **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22LΦ569-Φ4	REN	2	
		↓ -Φ5	↓	↓	
		SEQ-IBL6			(Cu OK - rinsed tube)
		22LΦ569-Φ6	REN	2	
		↓ -Φ1			
		BLAΦΦ39-OVP1			
	✓	↓ -MS1	↓	↓	Missed tube
		↓ -MS1	↓	↓	
		SEQ-CCV6			
		↓ -CCB6			
		22LΦ393-Φ1	REN	5	Cd only
		22LΦ441-Φ2			Se noisy ↓
		↓ -Φ4			As, Cd, Se only
		↓ -Φ8		↓	Se sl. noisy As only
		22LΦ465-Φ5		2	As, Cd, Se only
		22LΦ377-15		↓	Cr only
		22LΦ4Φ6-Φ1		100	Zn only
		22LΦ325-Φ7		10	↓
		22LΦ371-Φ4		↓	Cu only
		↓ -Φ3	↓	50	↓
		SEQ-CCV7			Ag ↓ - Not Needed
		↓ -CCB7			
	✓	↓ -CAL1			
		↓ -CCV8			Ag ↓ - Not Needed

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/4/23 **Analyst:** MS **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCB8			
		BKKΦ543-BLK1	SWN	20	
		↓ -BS1	↓	↓	
		↓ -SRL1	↓	100	
		22HΦ525-4Φ	↓	20	Sc↑ - Not Needed
		BKKΦ543-DUP1	↓	↓	↓ ↓
		↓ -MS1	↓	↓	↓ ↓
		↓ -MSD1	↓	↓	↓ ↓
		↓ -PS1	↓	↓	↓ ↓
		↓ -SRM1	↓	50	
		SEQ-IBL7			
		↓ -CCV9			Ag↓ - Not Needed
		↓ -CCB9			
		BKKΦ557-BLK1	SWN	20	
		↓ -BS1	↓	↓	
		↓ -SRL1	↓	100	
		22HΦ529-Φ1	↓	20	Sc↑ - Not Needed
		BKKΦ557-DUP1	↓	↓	↓ ↓
		↓ -MS1	↓	↓	↓ ↓
		↓ -MSD1	↓	↓	↓ ↓
		↓ -PS1	↓	↓	↓ ↓
		↓ -SRM1	↓	50	
		SEQ-IBL8			
		↓ -CCVA			Ag↑ - Not Needed

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/4/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCBA			
		BKKΦ828-BLK1	SWN	20	
		↓ -BS1	↓	↓	
		↓ -SRL1	↓	100	
		22IΦΦS2-Φ4	↓	20	Sc↑ - Not Needed
		BKKΦ828-DUP1	↓	↓	↓ ↓
		↓ -MS1	↓	↓	↓ ↓
		↓ -MSD1	↓	↓	↓ ↓
		↓ -PS1	↓	↓	↓ ↓
		↓ -SRM1	↓	50	
		SEQ-IBL9			
		↓ -CCVB			Ag↓ - Not Needed
		↓ -CCBB			
		BKLΦΦΦ6-BLK1	SWN	20	
		↓ -BS1	↓	↓	
		↓ -SRL1	↓	100	No Zn
		22IΦΦS2-25	↓	20	Sc↑ - Not Needed
		BKLΦΦΦ6-DUP1	↓	↓	↓ ↓
		↓ -MS1	↓	↓	/Zn↑/Cu STL ↓ ↓
		↓ -MSD1	↓	↓	↓ ↓
		↓ -PS1	↓	↓	↓ ↓
		↓ -SRM1	↓	50	
		SEQ-IBLA			
		↓ -CCVC			Ag↓ - Not Needed

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/4/23 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted. MB 1/4/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCBC			
		BKLΦΦ35-BLK1	SWN	20	
		-BS1		↓	
		-SRL1		100	No Zn
		22IΦ188-Φ2		20	Sc↑ - Not Needed
		BKLΦΦ35-DUP1			/As RPD↑
		-MS1			/Zn↑
		-MSD1			
		-PS1		↓	↓ ↓ ↓ ↓
		-SRM1	↓	50	
		SEQ-IBL3			
		-CCV1			Ag↓ - Not Needed
		-CCB1			
	✓	-CAL1			
		-CCVE			Ag, Pb↓
		-CCBE			
		BKLΦΦ8Φ-BLK1	SWN	20	No Pb
		-BS1		↓	↓
		-SRL1		100	No Pb, Zn
		22IΦ188-ZΦ		20	Sc↑ - Not Needed
		BKLΦΦ8Φ-DUP1			/As RPD↑
		-MS1			
		-MSD1			/~~Zn~~ X /Zn↑
		-PS1	↓	↓	↓ ↓ ↓

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/4/22 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted. MB 1/4/22

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BKLΦΦ8Φ-SRM1	SWN	50	No Pb
		SEQ-IBLC			
		-CCVF			Ag↓ - Not Needed
		-CCBF			In-1 noisy - %R + Analytes OK
		BKLΦΦ81-BLK1	SWN	20	
		-BS1		↓	
		-SRL1		100	
		22IΦ188-55		20	Sc↑ - Not Needed
		BKLΦΦ81-DUP1			
		-MS1			
		-MSD1			
		-PS1			
		-SRM1		50	
		SEQ-IBLD			
		-CCVG			Ag↓ - Not Needed
		-CCBG			
		BKLΦΘ683-BLK1	SWN	20	
		BKLΦ683-BS1		↓	Sc, In, Tb noisy - %R + Analytes OK
		-SRL1		100	No Zn
		22JΦΦ97-31		20	Sc↑ - Not Needed
		BKLΦ683-DUP1			
		-MS1			Zn↑
		-MSD1			
		-PS1			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 2/4/22 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BKLΦ683-SRM1	SWN	50	
		SEQ-IBLE			
		-CCVH			Ag↓
		-CCBH			Sc,Tb sl. noisy/In noisy - %Rs Analytes OK
		BLAΦΦ48-BLK1	REN		
		-BS1	↓		
		22LΦ383-Φ2	SWN	20	Sc↑ No Ag, Cr
		-Φ3	↓	↓	↓ ↓
		-Φ4			
		-Φ5			
		-Φ6			
		-Φ7			
		-Φ8			
		SEQ-IBLF			
		-CCVI			Ag↓
		-CCBI			
		22LΦ417-Φ1	SWN	20	Sc↑ No Ag, Cr
		-Φ2	↓	↓	↓ ↓
		-Φ3			
		-Φ4			
		-Φ5			
		-Φ6			
		-Φ7			
		-Φ8			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 1/4/23 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22L0417-09	SWN	20	Sc↑ No Ag, Cr
		SEQ-IBLG			
		-CCVJ			Ag↓
		-CCBJ			
	✓	-CAL1			
		-CCVK			Ag↓ - Not Needed
		-CCBK			
		22L0444-04	REN		
		-06	↓		
		-08			
		-10			
		SEQ.IBLH			
		22L0444-12	REN		
		-02	↓		
		BLA0048-DUP1			
		-MS1			
		SEQ-IBLI			
		-CCVL			Ag↓ - Not Needed
		-CCBL			
		22L0402-02	RHN		Sc↑ - Not Needed
		-05			
		-07			
		-09			
		SEQ-IBLJ			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/4/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22L0402-11	RHN		Sc↑ - Not Needed
		↓ -03	↓		↓ ↓
		BLA0035-DUP1	↓		
		↓ -MS1	↓		
		SEQ-IBLK			
		-CCVM			Ag↓/Se↑ - Not Needed
		↓ -CCBM			
		22L0444-14	REN		
		↓ -16	↓		
		22L0402-13	RHN		Sc↑ - Not Needed
		↓ -14	↓		↓ ↓
		SEQ-IBLL			
		-CCVN			Ag, Ni, Cr↓/Se↑ - Not Needed
		↓ -CCBN			
		Rinse/DI			
			MB 1/4/23		

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Wednesday, January 04, 2023 12:27:58
Sample Description:
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\STD Performance Check.mth
Dataset File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\DataSet\Default\STD Performance Check.4834
MassCal File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	4252.1	4252.099	38.048	0.9	Standard
	In	114.9	43073.6	43073.579	492.751	1.1	Standard
	U	238.1	48247.7	48247.741	347.581	0.7	Standard
⌈	CeO	155.9	539.3	0.015	0.000	1.7	Standard
| >	Ce	139.9	36435.6	36435.611	454.214	1.2	Standard
⌊	Ce++	70.0	1039.5	0.029	0.000	1.5	Standard
	Bkgd	220.0	0.0	0.033	0.075	223.6	Standard

Current Conditions File Data

Current Value	Description
1.08	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
18.00	Plasma Gas Flow
-11.25	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1050.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-8.00	Cell Rod Offset STD [CRO]
12.00	Discriminator Threshold
-4.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.25	RPq
1.09	DRC Mode NEB
-10.00	DRC Mode QRO
-3.00	DRC Mode CRO
-7.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
250.00	Axial Field Voltage
-16.50	KED Mode CRO
-12.00	KED Mode QRO
-4.00	KED Mode Cell Entrance Voltage
-39.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
5.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
475.00	KED Mode Axial Field Voltage

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Wednesday, January 04, 2023 12:38:02
Sample Description:
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\STD Performance Check.mth
Dataset File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\DataSet\Default\STD Performance Check.4841
MassCal File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	6444.9	6444.920	79.780	1.2	Standard
	In	114.9	51573.7	51573.730	318.244	0.6	Standard
	U	238.1	50004.6	50004.634	358.472	0.7	Standard
⌈	CeO	155.9	727.9	0.016	0.000	2.1	Standard
| >	Ce	139.9	46622.1	46622.088	253.107	0.5	Standard
⌊	Ce++	70.0	1100.6	0.024	0.001	4.7	Standard
	Bkgd	220.0	0.1	0.100	0.149	149.1	Standard

Current Conditions File Data

Current Value	Description
1.08	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
18.00	Plasma Gas Flow
-11.25	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1050.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-8.00	Cell Rod Offset STD [CRO]
12.00	Discriminator Threshold
-4.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.25	RPq
1.08	DRC Mode NEB
-10.00	DRC Mode QRO
-3.00	DRC Mode CRO
-7.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
250.00	Axial Field Voltage
-16.50	KED Mode CRO
-12.00	KED Mode QRO
-4.00	KED Mode Cell Entrance Voltage
-39.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
5.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
475.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 1/4/2023 12:27:41 PM
End Time: 1/4/2023 12:40:06 PM

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 4252.10
Obtained Intensity (In 115): 43073.58
Obtained Intensity (U 238): 48247.74
Obtained Intensity (Bkgd 220): 0.03
Obtained Formula (Ce++ 70 / Ce 140): 0.029 (=1039.50 / 36435.61)
Obtained Formula (CeO 156 / Ce 140): 0.015 (=539.28 / 36435.61)
Obtained RSD (Be 9): 0.0089
Obtained RSD (In 115): 0.0114
Obtained RSD (U 238): 0.0072

Torch Alignment - [Passed]

Vertical	Horizontal	Intensity
-0.16 mm	0.10 mm	44081.91

Nebulizer Gas Flow STD/KED [NEB] - [Passed] Optimum value(s): 1.08
Obtained Intensity (In 115): 47509.87
Obtained Formula (CeO 156 / Ce 140): 0.0205 (=944.03 / 46135.38)

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.700)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.692)
Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.696)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.712)

QID STD/DRC - Optimum value(s): Correlation Coefficient = 1.000; Intercept = -13.50

KED Mode QID - Optimum value(s): Correlation Coefficient = 0.999; Intercept = -13.15

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 6444.92
Obtained Intensity (In 115): 51573.73
Obtained Intensity (U 238): 50004.63
Obtained Intensity (Bkgd 220): 0.10
Obtained Formula (Ce++ 70 / Ce 140): 0.024 (=1100.58 / 46622.09)
Obtained Formula (CeO 156 / Ce 140): 0.016 (=727.89 / 46622.09)
Obtained RSD (Be 9): 0.0124
Obtained RSD (In 115): 0.0062
Obtained RSD (U 238): 0.0072

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 1/4/2023 12:27:41 PM

STD Performance Check
	Optimization Settings:
		Method: STD Performance Check.mth.
		Intensity Criterion: Be 9 > 2000
		Intensity Criterion: In 115 > 40000
		Intensity Criterion: U 238 > 30000
		Intensity Criterion: Bkgd 220 <= 1
		Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
		Formula Criterion: CeO 156 / Ce 140 <= 0.025
		RSD Criterion: Be 9.0122 < 0.05
		RSD Criterion: In 114.904 < 0.05
		RSD Criterion: U 238.05 < 0.05

	Optimization Results:
	Initial Try
		Obtained Intensity (Be 9): 4252.10
		Obtained Intensity (In 115): 43073.58
		Obtained Intensity (U 238): 48247.74
		Obtained Intensity (Bkgd 220): 0.03
		Obtained Formula (Ce++ 70 / Ce 140): 0.029 (=1039.50 / 36435.61)
		Obtained Formula (CeO 156 / Ce 140): 0.015 (=539.28 / 36435.61)
		Obtained RSD (Be 9): 0.0089
		Obtained RSD (In 115): 0.0114
		Obtained RSD (U 238): 0.0072

[Passed] Optimum value(s): N/A

Torch Alignment
	Optimization Settings:
		Method: Torch Alignment.mth.
		Intensity Criterion: In 115 Maximum

	Optimization Results:
		Vertical	Horizontal	Intensity
[Passed]	-0.16 mm	0.10 mm	44081.91

Nebulizer Gas Flow STD/KED [NEB]
	Optimization Settings:
		Method: Optimize.mth.
			Initial Try - Start/End/Step: 1/1.1/0.01.
		Intensity Criterion: In 115 Maximum
		Formula Criterion: CeO 156 / Ce 140 <= 0.025

	Optimization Results:
	Initial Try

		Obtained Intensity (In 115): 47509.87
		Obtained Formula (CeO 156 / Ce 140): 0.0205 (=944.03 / 46135.38)
[Passed] Optimum value(s): 1.08

Mass Calibration and Resolution
	Optimization Settings:
		Method: Tuning.mth.
		MassCal File: Default.tun
		Iterations: 6
		Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution
		Peak height (%) for Res. Opt.: 10

	Optimization Results:
	Initial Try
		Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.686)
		Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.679)
		Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.666) - <Target not achieved>
		Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.709)
		[Failed]
	Retry 1
		Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.700)
		Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.692)
		Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.696)
		Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.712)
[Passed] Optimum value(s): N/A

QID STD/DRC
	Optimization Settings:
		Method: QID Calibration.mth.
			Initial Try - Start/End/Step: -20/0/0.5.

	Optimization Results:
	Initial Try

  Optimum value(s): Correlation Coefficient = 1.000; Intercept = -13.50

	Analyte	Mass	Points	DAC	MaxIntensity

		Li	7	41	-14	24501
		Mg	24	41	-14.5	25049.9
		In	115	41	-10	50276.3
		Ce	140	41	-8.5	48157
		Pb	208	41	-7	30757.1
		U	238	41	-7	50613.5

KED Mode QID
	Optimization Settings:
		Method: QID Calibration.mth.
			Initial Try - Start/End/Step: -20/0/0.5.

	Optimization Results:
	Initial Try

  Optimum value(s): Correlation Coefficient = 0.999; Intercept = -13.15

	Analyte	Mass	Points	DAC	MaxIntensity

		Li	7	41	-14	17542.8
		Mg	24	41	-15	17346.5
		In	115	41	-11	38339.4
		Ce	140	41	-9	36474.5
		Pb	208	41	-7	22577.8
		U	238	41	-6.5	37232.5

```
STD Performance Check
        Optimization Settings:
                Method: STD Performance Check.mth.
                Intensity Criterion: Be 9 > 2000
                Intensity Criterion: In 115 > 40000
                Intensity Criterion: U 238 > 30000
                Intensity Criterion: Bkgd 220 <= 1
                Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
                Formula Criterion: CeO 156 / Ce 140 <= 0.025
                RSD Criterion: Be 9.0122 < 0.05
                RSD Criterion: In 114.904 < 0.05
                RSD Criterion: U 238.05 < 0.05

        Optimization Results:
        Initial Try
                Obtained Intensity (Be 9): 6444.92
                Obtained Intensity (In 115): 51573.73
                Obtained Intensity (U 238): 50004.63
                Obtained Intensity (Bkgd 220): 0.10
                Obtained Formula (Ce++ 70 / Ce 140): 0.024 (=1100.58 / 46622.09)
                Obtained Formula (CeO 156 / Ce 140): 0.016 (=727.89 / 46622.09)
                Obtained RSD (Be 9): 0.0124
                Obtained RSD (In 115): 0.0062
                Obtained RSD (U 238): 0.0072

[Passed]  Optimum value(s): N/A

End Time: 1/4/2023 12:40:06 PM
```

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 14:17:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				26147	3	Standard
	Cl	**37**		ug/L				2678464	1	Standard
⎡>	**Sc**	**45**		ug/L				345365	3	Standard
⎢	**Cr**	**52**		ug/L				12496	1	Standard
⎣	**Cr**	**53**		ug/L				92	12	Standard
⎡>	**Ge**	**72**		ug/L				13767	2	KED
⎢	**Ni**	**60**		ug/L				6	17	KED
⎢	**Ni**	**62**		ug/L				4	65	KED
⎢	**Cu**	**63**		ug/L				25	21	KED
⎢	**Cu**	**65**		ug/L				12	17	KED
⎢	**Zn**	**66**		ug/L				20	18	KED
⎢	**Zn**	**67**		ug/L				7	25	KED
⎢	**As**	**75**		ug/L				5	48	KED
⎣	**Se**	**78**		ug/L				8	13	KED
	Y	**89**		ug/L				212884	1	Standard
	Kr	**83**		ug/L				56	10	Standard
⎡>	**In-1**	**115**		ug/L				4229	0	KED
⎢	**Cd**	**111**		ug/L				2	49	KED
⎣	**Cd**	**114**		ug/L				0	244	KED
⎡>	**In**	**115**		ug/L				303782	0	Standard
⎣	**Ag**	**107**		ug/L				24	23	Standard
⎡>	**Tb**	**159**		ug/L				483351	0	Standard
⎣	**Pb**	**208**		ug/L				144	14	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 14:22:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26147	24847	4	Standard
	Cl	**37**		ug/L			2678464	2605492	2	Standard
⌈>	**Sc**	**45**		ug/L			345365	351854	0	Standard
|	**Cr**	**52**	**0.500**	ug/L	0.039	7	12496	19492	2	Standard
⌊	**Cr**	**53**	**0.500**	ug/L	0.014	2	92	865	2	Standard
⌈>	**Ge**	**72**		ug/L			13767	14242	0	KED
|	**Ni**	**60**	**0.500**	ug/L	0.057	11	6	317	11	KED
|	**Ni**	**62**	**0.500**	ug/L	0.187	37	4	50	34	KED
|	**Cu**	**63**	**0.500**	ug/L	0.026	5	25	1026	4	KED
|	**Cu**	**65**	**0.500**	ug/L	0.005	0	12	555	0	KED
|	**Zn**	**66**	**6.000**	ug/L	0.216	3	20	1578	3	KED
|	**Zn**	**67**	**6.000**	ug/L	0.440	7	7	221	7	KED
|	**As**	**75**	**0.200**	ug/L	0.044	21	5	28	17	KED
⌊	**Se**	**78**	**0.500**	ug/L	0.299	59	8	16	28	KED
	Y	**89**		ug/L			212884	210750	1	Standard
	Kr	**83**		ug/L			56	67	18	Standard
⌈>	**In-1**	**115**		ug/L			4229	4502	3	KED
|	**Cd**	**111**	**0.100**	ug/L	0.029	29	2	14	20	KED
⌊	**Cd**	**114**	**0.100**	ug/L	0.006	6	0	39	7	KED
⌈>	**In**	**115**		ug/L			303782	305349	2	Standard
⌊	**Ag**	**107**	**0.200**	ug/L	0.010	4	24	2728	3	Standard
⌈>	**Tb**	**159**		ug/L			483351	480393	1	Standard
⌊	**Pb**	**208**	**0.100**	ug/L	0.002	2	144	4303	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 14:26:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26147	25400	4	Standard
	Cl	**37**		ug/L			2678464	2640714	6	Standard
⌈>	**Sc**	**45**		ug/L			345365	354207	2	Standard
|	**Cr**	**52**	**10.000**	ug/L	0.340	3	12496	150880	2	Standard
⌊	**Cr**	**53**	**10.001**	ug/L	0.135	1	92	16394	1	Standard
⌈>	**Ge**	**72**		ug/L			13767	14242	2	KED
|	**Ni**	**60**	**10.002**	ug/L	0.664	6	6	6822	4	KED
|	**Ni**	**62**	**10.005**	ug/L	0.316	3	4	1167	1	KED
|	**Cu**	**63**	**10.001**	ug/L	0.131	1	25	20779	0	KED
|	**Cu**	**65**	**9.998**	ug/L	0.252	2	12	10008	1	KED
|	**Zn**	**66**	**9.931**	ug/L	0.291	2	20	2548	1	KED
|	**Zn**	**67**	**10.504**	ug/L	0.351	3	7	443	5	KED
|	**As**	**75**	**10.000**	ug/L	0.476	4	5	1276	2	KED
⌊	**Se**	**78**	**9.995**	ug/L	0.621	6	8	139	4	KED
	Y	**89**		ug/L			212884	220994	2	Standard
	Kr	**83**		ug/L			56	57	5	Standard
⌈>	**In-1**	**115**		ug/L			4229	4500	2	KED
|	**Cd**	**111**	**10.000**	ug/L	0.330	3	2	1563	3	KED
⌊	**Cd**	**114**	**10.000**	ug/L	0.142	1	0	4039	3	KED
⌈>	**In**	**115**		ug/L			303782	311820	1	Standard
⌊	**Ag**	**107**	**10.000**	ug/L	0.103	1	24	138483	1	Standard
⌈>	**Tb**	**159**		ug/L			483351	497678	1	Standard
⌊	**Pb**	**208**	**10.000**	ug/L	0.305	3	144	415974	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 14:31:37
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26147	25444	1	Standard
	Cl	**37**		ug/L			2678464	2681122	2	Standard
⌈>	**Sc**	**45**		ug/L			345365	359059	1	Standard
|	**Cr**	**52**	**20.057**	ug/L	0.233	1	12496	296991	0	Standard
⌊	**Cr**	**53**	**19.949**	ug/L	0.199	0	92	32734	2	Standard
⌈>	**Ge**	**72**		ug/L			13767	14023	1	KED
|	**Ni**	**60**	**19.907**	ug/L	0.592	2	6	13130	2	KED
|	**Ni**	**62**	**19.813**	ug/L	0.489	2	4	2190	1	KED
|	**Cu**	**63**	**19.980**	ug/L	0.504	2	25	40681	1	KED
|	**Cu**	**65**	**20.012**	ug/L	0.567	2	12	19762	2	KED
|	**Zn**	**66**	**19.987**	ug/L	0.121	0	20	5021	1	KED
|	**Zn**	**67**	**19.791**	ug/L	1.922	9	7	791	10	KED
|	**As**	**75**	**20.009**	ug/L	0.475	2	5	2515	2	KED
⌊	**Se**	**78**	**20.172**	ug/L	0.678	3	8	278	2	KED
	Y	**89**		ug/L			212884	223181	2	Standard
	Kr	**83**		ug/L			56	69	11	Standard
⌈>	**In-1**	**115**		ug/L			4229	4411	4	KED
|	**Cd**	**111**	**20.068**	ug/L	0.370	1	2	3115	2	KED
⌊	**Cd**	**114**	**20.020**	ug/L	0.786	3	0	7948	0	KED
⌈>	**In**	**115**		ug/L			303782	320066	0	Standard
⌊	**Ag**	**107**	**19.948**	ug/L	0.159	0	24	280636	0	Standard
⌈>	**Tb**	**159**		ug/L			483351	513376	1	Standard
⌊	**Pb**	**208**	**19.904**	ug/L	0.454	2	144	837845	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 14:36:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26147	24179	3	Standard
	Cl	**37**		ug/L			2678464	2743191	1	Standard
⌈>	**Sc**	**45**		ug/L			345365	356235	2	Standard
|	**Cr**	**52**	**50.293**	ug/L	1.553	3	12496	740521	1	Standard
⌊	**Cr**	**53**	**50.179**	ug/L	0.384	0	92	83032	2	Standard
⌈>	**Ge**	**72**		ug/L			13767	14524	1	KED
|	**Ni**	**60**	**49.761**	ug/L	0.850	1	6	33194	1	KED
|	**Ni**	**62**	**49.923**	ug/L	0.916	1	4	5665	1	KED
|	**Cu**	**63**	**49.745**	ug/L	1.732	3	25	102248	2	KED
|	**Cu**	**65**	**49.927**	ug/L	0.378	0	12	50682	1	KED
|	**Zn**	**66**	**49.889**	ug/L	1.697	3	20	12815	3	KED
|	**Zn**	**67**	**50.922**	ug/L	1.664	3	7	2292	4	KED
|	**As**	**75**	**50.091**	ug/L	1.488	2	5	6571	1	KED
⌊	**Se**	**78**	**49.945**	ug/L	1.916	3	8	696	3	KED
	Y	**89**		ug/L			212884	223140	0	Standard
	Kr	**83**		ug/L			56	68	15	Standard
⌈>	**In-1**	**115**		ug/L			4229	4691	1	KED
|	**Cd**	**111**	**49.993**	ug/L	0.735	1	2	8248	0	KED
⌊	**Cd**	**114**	**49.779**	ug/L	1.519	3	0	20582	2	KED
⌈>	**In**	**115**		ug/L			303782	315602	1	Standard
⌊	**Ag**	**107**	**50.105**	ug/L	1.105	2	24	702292	1	Standard
⌈>	**Tb**	**159**		ug/L			483351	517859	1	Standard
⌊	**Pb**	**208**	**49.994**	ug/L	0.874	1	144	2121475	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 14:43:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26147	24575	2	Standard
	Cl	**37**		ug/L			2678464	2771015	3	Standard
⌈>	**Sc**	**45**		ug/L			345365	350562	0	Standard
|	**Cr**	**52**	**99.469**	ug/L	2.337	2	12496	1404773	2	Standard
⌊	**Cr**	**53**	**99.796**	ug/L	1.019	1	92	161299	0	Standard
⌈>	**Ge**	**72**		ug/L			13767	13464	2	KED
|	**Ni**	**60**	**100.615**	ug/L	5.293	5	6	63468	2	KED
|	**Ni**	**62**	**99.476**	ug/L	2.510	2	4	10279	1	KED
|	**Cu**	**63**	**100.111**	ug/L	1.707	1	25	191494	2	KED
|	**Cu**	**65**	**99.783**	ug/L	0.574	0	12	93225	2	KED
|	**Zn**	**66**	**99.570**	ug/L	3.852	3	20	23349	1	KED
|	**Zn**	**67**	**98.445**	ug/L	0.780	0	7	3900	2	KED
|	**As**	**75**	**100.343**	ug/L	0.313	0	5	12341	2	KED
⌊	**Se**	**78**	**99.673**	ug/L	1.064	1	8	1265	1	KED
	Y	**89**		ug/L			212884	216581	1	Standard
	Kr	**83**		ug/L			56	69	6	Standard
⌈>	**In-1**	**115**		ug/L			4229	4360	1	KED
|	**Cd**	**111**	**100.005**	ug/L	2.006	2	2	15335	0	KED
⌊	**Cd**	**114**	**100.405**	ug/L	0.846	0	0	39118	1	KED
⌈>	**In**	**115**		ug/L			303782	315057	0	Standard
⌊	**Ag**	**107**	**99.327**	ug/L	2.114	2	24	1359525	2	Standard
⌈>	**Tb**	**159**		ug/L			483351	530296	0	Standard
⌊	**Pb**	**208**	**99.368**	ug/L	1.499	1	144	4229321	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 14:50:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26147	24711	2	Standard
	Cl	**37**		ug/L			2678464	2611827	3	Standard
⌈>	**Sc**	**45**		ug/L			345365	356528	0	Standard
|	**Cr**	**52**	**-0.016**	ug/L	0.013	78	12496	12671	1	Standard
⌊	**Cr**	**53**	**0.024**	ug/L	0.005	22	92	134	6	Standard
⌈>	**Ge**	**72**		ug/L			13767	14134	1	KED
|	**Ni**	**60**	**0.010**	ug/L	0.007	72	6	13	37	KED
|	**Ni**	**62**	**-0.042**	ug/L	0.000	0	4	0		KED
|	**Cu**	**63**	**0.012**	ug/L	0.010	84	25	50	40	KED
|	**Cu**	**65**	**0.005**	ug/L	0.008	164	12	17	43	KED
|	**Zn**	**66**	**0.073**	ug/L	0.058	79	20	39	35	KED
|	**Zn**	**67**	**0.056**	ug/L	0.146	262	7	10	60	KED
|	**As**	**75**	**0.003**	ug/L	0.005	209	5	5	12	KED
⌊	**Se**	**78**	**-0.015**	ug/L	0.150	1001	8	8	22	KED
	Y	**89**		ug/L			212884	214884	0	Standard
	Kr	**83**		ug/L			56	66	12	Standard
⌈>	**In-1**	**115**		ug/L			4229	4600	1	KED
|	**Cd**	**111**	**-0.005**	ug/L	0.012	230	2	1	124	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.000	3	0	1	1	KED
⌈>	**In**	**115**		ug/L			303782	318011	1	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.001	20	24	90	13	Standard
⌈>	**Tb**	**159**		ug/L			483351	515044	1	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.001	23	144	250	8	Standard

Sample Information

Sample Date/Time: Wednesday, January 04, 2023 14:43:19
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED
Mass Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Calibration

Analyte	Mass	**r Corr Coef**	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
C	13							
Cl	37							
Sc	45							
Cr	52	**0.9999**	0.040	0.50	10	20	50	100
Cr	53	**1.0000**	0.005	0.50	10	20	50	100
Ge	72							
Ni	60	**0.9999**	0.047	0.50	10	20	50	100
Ni	62	**0.9999**	0.008	0.50	10	20	50	100
Cu	63	**1.0000**	0.142	0.50	10	20	50	100
Cu	65	**1.0000**	0.069	0.50	10	20	50	100
Zn	66	**1.0000**	0.017	6.00	10	20	50	100
Zn	67	**0.9994**	0.003	6.00	10	20	50	100
As	75	**1.0000**	0.009	0.20	10	20	50	100
Se	78	**1.0000**	0.001	0.50	10	20	50	100
Y	89							
Kr	83							
In-1	115							
Cd	111	**1.0000**	0.035	0.10	10	20	50	100
Cd	114	**1.0000**	0.089	0.10	10	20	50	100
In	115							
Ag	107	**0.9999**	0.043	0.20	10	20	50	100
Tb	159							
Pb	208	**0.9999**	0.080	0.10	10	20	50	100

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 14:58:03
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26147	33181	3	Standard
	Cl	**37**		ug/L			2678464	2782823	0	Standard
⌈>	**Sc**	**45**		ug/L			345365	366059	1	Standard
|	**Cr**	**52**	**48.451**	ug/L	0.648	1	12496	721323	1	Standard
⌊	**Cr**	**53**	**49.571**	ug/L	1.206	2	92	83697	1	Standard
⌈>	**Ge**	**72**		ug/L			13767	14372	0	KED
|	**Ni**	**60**	**51.185**	ug/L	1.522	2	6	34489	2	KED
|	**Ni**	**62**	**50.876**	ug/L	0.900	1	4	5615	2	KED
|	**Cu**	**63**	**51.502**	ug/L	0.777	1	25	105170	1	KED
|	**Cu**	**65**	**50.315**	ug/L	0.336	0	12	50178	0	KED
|	**Zn**	**66**	**47.469**	ug/L	0.981	2	20	11898	1	KED
|	**Zn**	**67**	**49.806**	ug/L	0.984	1	7	2109	1	KED
|	**As**	**75**	**46.879**	ug/L	0.755	1	5	6157	1	KED
⌊	**Se**	**78**	**77.526**	ug/L	2.539	3	8	1052	3	KED
	Y	**89**		ug/L			212884	225717	0	Standard
	Kr	**83**		ug/L			56	70	14	Standard
⌈>	**In-1**	**115**		ug/L			4229	4457	1	KED
|	**Cd**	**111**	**50.555**	ug/L	1.271	2	2	7925	0	KED
⌊	**Cd**	**114**	**50.360**	ug/L	0.173	0	0	20058	1	KED
⌈>	**In**	**115**		ug/L			303782	330943	2	Standard
⌊	**Ag**	**107**	**49.514**	ug/L	1.225	2	24	711583	0	Standard
⌈>	**Tb**	**159**		ug/L			483351	533935	0	Standard
⌊	**Pb**	**208**	**50.879**	ug/L	1.004	1	144	2180280	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 15:09:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26147	25120	6	Standard
	Cl	**37**		ug/L			2678464	2715683	1	Standard
⌈>	**Sc**	**45**		ug/L			345365	357549	2	Standard
|	**Cr**	**52**	**0.004**	ug/L	0.016	451	12496	12985	1	Standard
⌊	**Cr**	**53**	**0.020**	ug/L	0.006	27	92	128	7	Standard
⌈>	**Ge**	**72**		ug/L			13767	14269	1	KED
|	**Ni**	**60**	**0.003**	ug/L	0.004	127	6	8	32	KED
|	**Ni**	**62**	**-0.013**	ug/L	0.027	200	4	3	91	KED
|	**Cu**	**63**	**0.004**	ug/L	0.002	42	25	34	9	KED
|	**Cu**	**65**	**0.003**	ug/L	0.003	100	12	15	18	KED
|	**Zn**	**66**	**0.125**	ug/L	0.018	14	20	52	7	KED
|	**Zn**	**67**	**-0.037**	ug/L	0.024	64	7	6	17	KED
|	**As**	**75**	**0.006**	ug/L	0.015	259	5	6	30	KED
⌊	**Se**	**78**	**0.012**	ug/L	0.156	1256	8	9	24	KED
	Y	**89**		ug/L			212884	218831	1	Standard
	Kr	**83**		ug/L			56	66	12	Standard
⌈>	**In-1**	**115**		ug/L			4229	4566	1	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.004	51	2	1	43	KED
⌊	**Cd**	**114**	**0.007**	ug/L	0.005	80	0	3	69	KED
⌈>	**In**	**115**		ug/L			303782	325298	1	Standard
⌊	**Ag**	**107**	**0.007**	ug/L	0.001	9	24	126	7	Standard
⌈>	**Tb**	**159**		ug/L			483351	504506	1	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.001	17	144	307	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 15:20:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26147	25533	2	Standard
	Cl	**37**		ug/L			2678464	2853511	3	Standard
⌈>	**Sc**	**45**		ug/L			345365	351473	2	Standard
|	**Cr**	**52**	**50.990**	ug/L	1.626	3	12496	727791	0	Standard
⌊	**Cr**	**53**	**51.451**	ug/L	0.963	1	92	83396	1	Standard
⌈>	**Ge**	**72**		ug/L			13767	14383	3	KED
|	**Ni**	**60**	**50.088**	ug/L	1.089	2	6	33766	1	KED
|	**Ni**	**62**	**49.564**	ug/L	1.662	3	4	5473	3	KED
|	**Cu**	**63**	**51.172**	ug/L	2.025	3	25	104483	0	KED
|	**Cu**	**65**	**50.420**	ug/L	0.587	1	12	50310	2	KED
|	**Zn**	**66**	**50.454**	ug/L	1.319	2	20	12655	3	KED
|	**Zn**	**67**	**49.394**	ug/L	1.031	2	7	2094	3	KED
|	**As**	**75**	**49.625**	ug/L	0.726	1	5	6523	3	KED
⌊	**Se**	**78**	**51.146**	ug/L	1.173	2	8	697	1	KED
	Y	**89**		ug/L			212884	223981	1	Standard
	Kr	**83**		ug/L			56	73	13	Standard
⌈>	**In-1**	**115**		ug/L			4229	4532	3	KED
|	**Cd**	**111**	**51.206**	ug/L	1.743	3	2	8158	1	KED
⌊	**Cd**	**114**	**50.585**	ug/L	1.157	2	0	20476	1	KED
⌈>	**In**	**115**		ug/L			303782	329259	2	Standard
⌊	**Ag**	**107**	**49.124**	ug/L	1.623	3	24	702322	1	Standard
⌈>	**Tb**	**159**		ug/L			483351	534265	1	Standard
⌊	**Pb**	**208**	**50.687**	ug/L	1.428	2	144	2172888	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 15:27:37
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26147	25613	4	Standard
	Cl	**37**		ug/L			2678464	2641260	1	Standard
⌈>	**Sc**	**45**		ug/L			345365	346238	3	Standard
|	**Cr**	**52**	**0.062**	ug/L	0.025	40	12496	13378	3	Standard
⌊	**Cr**	**53**	**0.018**	ug/L	0.009	53	92	120	10	Standard
⌈>	**Ge**	**72**		ug/L			13767	13983	1	KED
|	**Ni**	**60**	**0.004**	ug/L	0.006	164	6	8	44	KED
|	**Ni**	**62**	**-0.024**	ug/L	0.000	1	4	1		KED
|	**Cu**	**63**	**0.003**	ug/L	0.001	29	25	32	5	KED
|	**Cu**	**65**	**0.010**	ug/L	0.007	71	12	22	30	KED
|	**Zn**	**66**	**0.085**	ug/L	0.046	53	20	41	25	KED
|	**Zn**	**67**	**0.027**	ug/L	0.160	601	7	8	75	KED
|	**As**	**75**	**0.001**	ug/L	0.006	980	5	5	13	KED
⌊	**Se**	**78**	**-0.060**	ug/L	0.150	249	8	7	26	KED
	Y	**89**		ug/L			212884	220557	0	Standard
	Kr	**83**		ug/L			56	66	24	Standard
⌈>	**In-1**	**115**		ug/L			4229	4462	0	KED
|	**Cd**	**111**	**0.001**	ug/L	0.013	1000	2	2	78	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.000	3	0	1	1	KED
⌈>	**In**	**115**		ug/L			303782	319382	2	Standard
⌊	**Ag**	**107**	**0.004**	ug/L	0.001	17	24	83	11	Standard
⌈>	**Tb**	**159**		ug/L			483351	514702	2	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.001	39	144	218	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 15:36:21
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26147	25048	6	Standard
	Cl	**37**		ug/L			2678464	2643142	3	Standard
⎡>	**Sc**	**45**		ug/L			345365	359885	0	Standard
⎢	**Cr**	**52**	**0.502**	ug/L	0.022	4	12496	20239	2	Standard
⎣	**Cr**	**53**	**0.506**	ug/L	0.017	3	92	935	2	Standard
⎡>	**Ge**	**72**		ug/L			13767	14329	2	KED
⎢	**Ni**	**60**	**0.478**	ug/L	0.064	13	6	327	13	KED
⎢	**Ni**	**62**	**0.478**	ug/L	0.080	16	4	57	15	KED
⎢	**Cu**	**63**	**0.525**	ug/L	0.055	10	25	1094	10	KED
⎢	**Cu**	**65**	**0.489**	ug/L	0.043	8	12	498	7	KED
⎢	**Zn**	**66**	**6.174**	ug/L	0.319	5	20	1561	3	KED
⎢	**Zn**	**67**	**5.575**	ug/L	1.015	18	7	241	15	KED
⎢	**As**	**75**	**0.175**	ug/L	0.032	18	5	28	13	KED
⎣	**Se**	**78**	**0.555**	ug/L	0.051	9	8	16	6	KED
	Y	**89**		ug/L			212884	219005	0	Standard
	Kr	**83**		ug/L			56	59	16	Standard
⎡>	**In-1**	**115**		ug/L			4229	4447	1	KED
⎢	**Cd**	**111**	**0.123**	ug/L	0.031	24	2	21	21	KED
⎣	**Cd**	**114**	**0.109**	ug/L	0.030	27	0	43	28	KED
⎡>	**In**	**115**		ug/L			303782	329672	0	Standard
⎣	**Ag**	**107**	**0.201**	ug/L	0.010	4	24	2900	4	Standard
⎡>	**Tb**	**159**		ug/L			483351	526665	0	Standard
⎣	**Pb**	**208**	**0.106**	ug/L	0.001	1	144	4629	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 15:40:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26147	100506	1	Standard
	Cl	**37**		ug/L			2678464	7234137	4	Standard
⌈>	**Sc**	**45**		ug/L			345365	358985	1	Standard
|	**Cr**	**52**	**0.864**	ug/L	0.033	3	12496	25365	0	Standard
⌊	**Cr**	**53**	**4.699**	ug/L	0.075	1	92	7869	1	Standard
⌈>	**Ge**	**72**		ug/L			13767	13903	1	KED
|	**Ni**	**60**	**0.096**	ug/L	0.028	29	6	69	27	KED
|	**Ni**	**62**	**0.172**	ug/L	0.066	38	4	22	30	KED
|	**Cu**	**63**	**0.028**	ug/L	0.005	18	25	81	14	KED
|	**Cu**	**65**	**0.033**	ug/L	0.013	39	12	45	29	KED
|	**Zn**	**66**	**0.167**	ug/L	0.042	25	20	61	17	KED
|	**Zn**	**67**	**0.013**	ug/L	0.097	723	7	8	48	KED
|	**As**	**75**	**0.037**	ug/L	0.017	47	5	10	22	KED
⌊	**Se**	**78**	**-0.018**	ug/L	0.091	499	8	8	14	KED
	Y	**89**		ug/L			212884	225229	1	Standard
	Kr	**83**		ug/L			56	127	13	Standard
⌈>	**In-1**	**115**		ug/L			4229	4542	3	KED
|	**Cd**	**111**	**0.060**	ug/L	0.018	29	2	12	24	KED
⌊	**Cd**	**114**	**0.062**	ug/L	0.042	68	0	25	63	KED
⌈>	**In**	**115**		ug/L			303782	321717	0	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.001	24	24	98	17	Standard
⌈>	**Tb**	**159**		ug/L			483351	537063	0	Standard
⌊	**Pb**	**208**	**0.060**	ug/L	0.002	3	144	2727	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 15:45:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26147	103202	5	Standard
	Cl	**37**		ug/L			2678464	7252926	2	Standard
⌈>	**Sc**	**45**		ug/L			345365	371294	0	Standard
|	**Cr**	**52**	**20.316**	ug/L	0.424	2	12496	314626	2	Standard
⌊	**Cr**	**53**	**24.120**	ug/L	0.583	2	92	41369	2	Standard
⌈>	**Ge**	**72**		ug/L			13767	13766	1	KED
|	**Ni**	**60**	**20.629**	ug/L	0.873	4	6	13316	3	KED
|	**Ni**	**62**	**20.456**	ug/L	0.965	4	4	2164	3	KED
|	**Cu**	**63**	**19.459**	ug/L	0.561	2	25	38064	1	KED
|	**Cu**	**65**	**19.904**	ug/L	0.144	0	12	19022	1	KED
|	**Zn**	**66**	**19.002**	ug/L	1.375	7	20	4571	5	KED
|	**Zn**	**67**	**16.967**	ug/L	0.557	3	7	693	1	KED
|	**As**	**75**	**19.696**	ug/L	0.589	2	5	2480	1	KED
⌊	**Se**	**78**	**-0.029**	ug/L	0.161	560	8	8	26	KED
	Y	**89**		ug/L			212884	231364	2	Standard
	Kr	**83**		ug/L			56	140	14	Standard
⌈>	**In-1**	**115**		ug/L			4229	4376	0	KED
|	**Cd**	**111**	**20.001**	ug/L	0.167	0	2	3080	1	KED
⌊	**Cd**	**114**	**18.999**	ug/L	0.319	1	0	7429	2	KED
⌈>	**In**	**115**		ug/L			303782	325470	1	Standard
⌊	**Ag**	**107**	**19.055**	ug/L	0.838	4	24	269310	2	Standard
⌈>	**Tb**	**159**		ug/L			483351	545312	0	Standard
⌊	**Pb**	**208**	**0.044**	ug/L	0.002	4	144	2082	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 15:50:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26147	31167	1	Standard
	Cl	**37**		ug/L			2678464	2861498	1	Standard
⌈>	**Sc**	**45**		ug/L			345365	353789	1	Standard
|	**Cr**	**52**	**189.757**	ug/L	5.893	3	12496	2692550	2	Standard
⌊	**Cr**	**53**	**198.987**	ug/L	4.289	2	92	324524	2	Standard
⌈>	**Ge**	**72**		ug/L			13767	13724	2	KED
|	**Ni**	**60**	**196.184**	ug/L	9.872	5	6	126154	3	KED
|	**Ni**	**62**	**193.559**	ug/L	4.833	2	4	20380	0	KED
|	**Cu**	**63**	**191.228**	ug/L	7.906	4	25	372616	2	KED
|	**Cu**	**65**	**190.684**	ug/L	7.436	3	12	181461	1	KED
|	**Zn**	**66**	**184.250**	ug/L	3.906	2	20	44033	0	KED
|	**Zn**	**67**	**187.273**	ug/L	6.855	3	7	7554	3	KED
|	**As**	**75**	**195.830**	ug/L	6.102	3	5	24534	1	KED
⌊	**Se**	**78**	**188.128**	ug/L	2.273	1	8	2427	1	KED
	Y	**89**		ug/L			212884	216507	0	Standard
	Kr	**83**		ug/L			56	128	9	Standard
⌈>	**In-1**	**115**		ug/L			4229	4312	0	KED
|	**Cd**	**111**	**193.422**	ug/L	0.730	0	2	29336	1	KED
⌊	**Cd**	**114**	**194.488**	ug/L	3.369	1	0	74946	2	KED
⌈>	**In**	**115**		ug/L			303782	329361	0	Standard
⌊	**Ag**	**107**	**183.263**	ug/L	2.724	1	24	2622308	1	Standard
⌈>	**Tb**	**159**		ug/L			483351	552006	1	Standard
⌊	**Pb**	**208**	**194.301**	ug/L	2.824	1	144	8607419	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 15:54:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26147	30793	1	Standard
	Cl	37		ug/L			2678464	2759308	1	Standard
>	Sc	45		ug/L			345365	343803	1	Standard
	Cr	52	273.695	ug/L	4.128	1	12496	3768867	1	Standard
	Cr	53	288.618	ug/L	4.206	1	92	457329	1	Standard
>	Ge	72		ug/L			13767	13544	3	KED
	Ni	60	283.777	ug/L	8.348	2	6	180071	0	KED
	Ni	62	276.990	ug/L	3.771	1	4	28788	3	KED
	Cu	63	270.986	ug/L	9.109	3	25	520975	1	KED
	Cu	65	277.027	ug/L	7.917	2	12	260141	1	KED
	Zn	66	263.376	ug/L	9.484	3	20	62072	0	KED
	Zn	67	268.197	ug/L	12.197	4	7	10664	1	KED
	As	75	284.430	ug/L	11.603	4	5	35145	0	KED
	Se	78	274.856	ug/L	7.285	2	8	3494	1	KED
	Y	89		ug/L			212884	211396	1	Standard
	Kr	83		ug/L			56	166	10	Standard
>	In-1	115		ug/L			4229	4313	1	KED
	Cd	111	279.753	ug/L	6.460	2	2	42433	1	KED
	Cd	114	278.654	ug/L	5.128	1	0	107386	1	KED
>	In	115		ug/L			303782	325435	1	Standard
	Ag	107	261.417	ug/L	10.347	3	24	3694569	2	Standard
>	Tb	159		ug/L			483351	548573	0	Standard
	Pb	208	274.937	ug/L	3.293	1	144	12105067	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 16:02:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26147	26200	3	Standard
	Cl	**37**		ug/L			2678464	2823101	5	Standard
⌈>	**Sc**	**45**		ug/L			345365	355601	1	Standard
|	**Cr**	**52**	**0.059**	ug/L	0.030	49	12496	13705	2	Standard
⌊	**Cr**	**53**	**0.090**	ug/L	0.010	10	92	242	6	Standard
⌈>	**Ge**	**72**		ug/L			13767	14587	2	KED
|	**Ni**	**60**	**0.050**	ug/L	0.019	37	6	41	31	KED
|	**Ni**	**62**	**0.026**	ug/L	0.046	174	4	7	66	KED
|	**Cu**	**63**	**0.120**	ug/L	0.011	8	25	275	10	KED
|	**Cu**	**65**	**0.110**	ug/L	0.011	10	12	125	11	KED
|	**Zn**	**66**	**0.128**	ug/L	0.031	24	20	54	14	KED
|	**Zn**	**67**	**-0.070**	ug/L	0.069	98	7	5	57	KED
|	**As**	**75**	**0.012**	ug/L	0.017	139	5	7	29	KED
⌊	**Se**	**78**	**0.127**	ug/L	0.183	143	8	10	24	KED
	Y	**89**		ug/L			212884	222144	0	Standard
	Kr	**83**		ug/L			56	60	5	Standard
⌈>	**In-1**	**115**		ug/L			4229	4615	3	KED
|	**Cd**	**111**	**0.011**	ug/L	0.013	119	2	4	48	KED
⌊	**Cd**	**114**	**0.015**	ug/L	0.012	74	0	6	69	KED
⌈>	**In**	**115**		ug/L			303782	350043	2	Standard
⌊	**Ag**	**107**	**0.010**	ug/L	0.001	5	24	173	2	Standard
⌈>	**Tb**	**159**		ug/L			483351	559390	1	Standard
⌊	**Pb**	**208**	**0.007**	ug/L	0.001	7	144	473	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 16:08:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26147	27043	6	Standard
	Cl	**37**		ug/L			2678464	2714907	5	Standard
⌈>	**Sc**	**45**		ug/L			345365	358771	2	Standard
|	**Cr**	**52**	**0.040**	ug/L	0.034	85	12496	13554	2	Standard
⌊	**Cr**	**53**	**0.066**	ug/L	0.004	6	92	204	3	Standard
⌈>	**Ge**	**72**		ug/L			13767	14746	5	KED
|	**Ni**	**60**	**0.029**	ug/L	0.015	51	6	27	42	KED
|	**Ni**	**62**	**0.025**	ug/L	0.029	114	4	7	43	KED
|	**Cu**	**63**	**0.100**	ug/L	0.008	7	25	238	12	KED
|	**Cu**	**65**	**0.111**	ug/L	0.016	14	12	126	15	KED
|	**Zn**	**66**	**0.142**	ug/L	0.049	34	20	59	24	KED
|	**Zn**	**67**	**0.057**	ug/L	0.121	213	7	10	53	KED
|	**As**	**75**	**0.001**	ug/L	0.015	1335	5	5	30	KED
⌊	**Se**	**78**	**0.113**	ug/L	0.182	161	8	10	27	KED
	Y	**89**		ug/L			212884	221153	1	Standard
	Kr	**83**		ug/L			56	69	27	Standard
⌈>	**In-1**	**115**		ug/L			4229	4710	3	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.006	379	2	2	49	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.005	148	0	1	109	KED
⌈>	**In**	**115**		ug/L			303782	349204	2	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.001	11	24	102	10	Standard
⌈>	**Tb**	**159**		ug/L			483351	555380	1	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.001	34	144	330	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 16:15:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26147	24536	2	Standard
	Cl	**37**		ug/L			2678464	2886277	1	Standard
⎡>	**Sc**	**45**		ug/L			345365	355185	0	Standard
⎢	**Cr**	**52**	**49.252**	ug/L	0.418	0	12496	711234	0	Standard
⎣	**Cr**	**53**	**50.234**	ug/L	0.831	1	92	82320	2	Standard
⎡>	**Ge**	**72**		ug/L			13767	14542	4	KED
⎢	**Ni**	**60**	**48.826**	ug/L	1.081	2	6	33273	2	KED
⎢	**Ni**	**62**	**50.830**	ug/L	1.578	3	4	5671	1	KED
⎢	**Cu**	**63**	**49.417**	ug/L	2.723	5	25	101985	3	KED
⎢	**Cu**	**65**	**49.982**	ug/L	1.960	3	12	50392	3	KED
⎢	**Zn**	**66**	**50.907**	ug/L	1.923	3	20	12903	4	KED
⎢	**Zn**	**67**	**51.499**	ug/L	2.761	5	7	2203	0	KED
⎢	**As**	**75**	**50.601**	ug/L	2.075	4	5	6716	0	KED
⎣	**Se**	**78**	**52.846**	ug/L	0.361	0	8	729	4	KED
	Y	**89**		ug/L			212884	222577	0	Standard
	Kr	**83**		ug/L			56	80	10	Standard
⎡>	**In-1**	**115**		ug/L			4229	4811	2	KED
⎢	**Cd**	**111**	**49.578**	ug/L	1.818	3	2	8386	1	KED
⎣	**Cd**	**114**	**48.944**	ug/L	2.262	4	0	21024	2	KED
⎡>	**In**	**115**		ug/L			303782	345645	2	Standard
⎣	**Ag**	**107**	**46.513**	ug/L	1.108	2	24	698168	0	Standard
⎡>	**Tb**	**159**		ug/L			483351	564182	3	Standard
⎣	**Pb**	**208**	**49.429**	ug/L	2.059	4	144	2236119	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 16:22:54
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26147	25309	2	Standard
	Cl	**37**		ug/L			2678464	2781889	2	Standard
⌈>	**Sc**	**45**		ug/L			345365	352603	0	Standard
|	**Cr**	**52**	**0.030**	ug/L	0.019	62	12496	13183	1	Standard
⌊	**Cr**	**53**	**0.041**	ug/L	0.001	3	92	160	1	Standard
⌈>	**Ge**	**72**		ug/L			13767	14502	0	KED
|	**Ni**	**60**	**0.002**	ug/L	0.009	369	6	8	70	KED
|	**Ni**	**62**	**-0.014**	ug/L	0.010	73	4	3	34	KED
|	**Cu**	**63**	**0.002**	ug/L	0.003	178	25	30	21	KED
|	**Cu**	**65**	**0.008**	ug/L	0.007	88	12	21	33	KED
|	**Zn**	**66**	**0.044**	ug/L	0.057	131	20	33	43	KED
|	**Zn**	**67**	**-0.129**	ug/L	0.069	53	7	2	114	KED
|	**As**	**75**	**0.000**	ug/L	0.017	6842	5	5	38	KED
⌊	**Se**	**78**	**0.024**	ug/L	0.235	991	8	9	33	KED
	Y	**89**		ug/L			212884	220978	3	Standard
	Kr	**83**		ug/L			56	64	12	Standard
⌈>	**In-1**	**115**		ug/L			4229	4759	1	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.009	118	2	1	114	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.005	323	0	1	188	KED
⌈>	**In**	**115**		ug/L			303782	345686	0	Standard
⌊	**Ag**	**107**	**0.004**	ug/L	0.000	10	24	88	7	Standard
⌈>	**Tb**	**159**		ug/L			483351	545560	2	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.001	21	144	285	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 16:29:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				24007	2	Standard
	Cl	**37**		ug/L				2678005	1	Standard
⎡>	**Sc**	**45**		ug/L				354816	1	Standard
⎢	**Cr**	**52**		ug/L				13544	2	Standard
⎣	**Cr**	**53**		ug/L				153	11	Standard
⎡>	**Ge**	**72**		ug/L				14789	1	KED
⎢	**Ni**	**60**		ug/L				6	17	KED
⎢	**Ni**	**62**		ug/L				4	24	KED
⎢	**Cu**	**63**		ug/L				34	22	KED
⎢	**Cu**	**65**		ug/L				15	25	KED
⎢	**Zn**	**66**		ug/L				22	24	KED
⎢	**Zn**	**67**		ug/L				5	21	KED
⎢	**As**	**75**		ug/L				6	18	KED
⎣	**Se**	**78**		ug/L				10	29	KED
	Y	**89**		ug/L				222841	2	Standard
	Kr	**83**		ug/L				76	6	Standard
⎡>	**In-1**	**115**		ug/L				4607	1	KED
⎢	**Cd**	**111**		ug/L				1	69	KED
⎣	**Cd**	**114**		ug/L				3	36	KED
⎡>	**In**	**115**		ug/L				342991	1	Standard
⎣	**Ag**	**107**		ug/L				36	24	Standard
⎡>	**Tb**	**159**		ug/L				548682	1	Standard
⎣	**Pb**	**208**		ug/L				142	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 16:33:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			24007	25017	1	Standard
	Cl	**37**		ug/L			2678005	2866583	1	Standard
⌈>	**Sc**	**45**		ug/L			354816	355550	1	Standard
|	**Cr**	**52**	**50.574**	ug/L	0.564	1	13544	731474	1	Standard
⌊	**Cr**	**53**	**51.036**	ug/L	0.720	1	153	83763	0	Standard
⌈>	**Ge**	**72**		ug/L			14789	14534	1	KED
|	**Ni**	**60**	**47.610**	ug/L	2.049	4	6	32438	3	KED
|	**Ni**	**62**	**48.378**	ug/L	2.011	4	4	5398	3	KED
|	**Cu**	**63**	**48.956**	ug/L	1.563	3	34	101104	3	KED
|	**Cu**	**65**	**49.808**	ug/L	1.720	3	15	50225	2	KED
|	**Zn**	**66**	**48.585**	ug/L	2.041	4	22	12313	3	KED
|	**Zn**	**67**	**48.993**	ug/L	1.745	3	5	2096	3	KED
|	**As**	**75**	**49.698**	ug/L	1.361	2	6	6600	1	KED
⌊	**Se**	**78**	**50.139**	ug/L	0.864	1	10	693	0	KED
	Y	**89**		ug/L			222841	231191	1	Standard
	Kr	**83**		ug/L			76	62	22	Standard
⌈>	**In-1**	**115**		ug/L			4607	4591	1	KED
|	**Cd**	**111**	**50.147**	ug/L	1.707	3	1	8097	3	KED
⌊	**Cd**	**114**	**50.525**	ug/L	2.238	4	3	20720	3	KED
⌈>	**In**	**115**		ug/L			342991	347291	1	Standard
⌊	**Ag**	**107**	**47.240**	ug/L	1.148	2	36	712633	1	Standard
⌈>	**Tb**	**159**		ug/L			548682	570346	1	Standard
⌊	**Pb**	**208**	**49.145**	ug/L	0.599	1	142	2249512	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 16:42:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			24007	24699	2	Standard
	Cl	**37**		ug/L			2678005	2738408	2	Standard
⌈>	**Sc**	**45**		ug/L			354816	351237	2	Standard
|	**Cr**	**52**	**-0.011**	ug/L	0.015	141	13544	13256	0	Standard
⌊	**Cr**	**53**	**-0.009**	ug/L	0.006	62	153	137	7	Standard
⌈>	**Ge**	**72**		ug/L			14789	14757	3	KED
|	**Ni**	**60**	**0.004**	ug/L	0.005	122	6	8	32	KED
|	**Ni**	**62**	**-0.017**	ug/L	0.038	225	4	2	173	KED
|	**Cu**	**63**	**0.000**	ug/L	0.002	3711	34	34	11	KED
|	**Cu**	**65**	**0.007**	ug/L	0.002	32	15	22	13	KED
|	**Zn**	**66**	**0.008**	ug/L	0.026	318	22	24	25	KED
|	**Zn**	**67**	**0.015**	ug/L	0.005	32	5	5	0	KED
|	**As**	**75**	**0.000**	ug/L	0.007	80517	6	6	17	KED
⌊	**Se**	**78**	**0.025**	ug/L	0.139	560	10	10	16	KED
	Y	**89**		ug/L			222841	222167	1	Standard
	Kr	**83**		ug/L			76	61	6	Standard
⌈>	**In-1**	**115**		ug/L			4607	4664	1	KED
|	**Cd**	**111**	**0.010**	ug/L	0.014	151	1	3	75	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.007	9540	3	3	97	KED
⌈>	**In**	**115**		ug/L			342991	340707	2	Standard
⌊	**Ag**	**107**	**0.004**	ug/L	0.000	6	36	92	5	Standard
⌈>	**Tb**	**159**		ug/L			548682	547056	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	67	142	168	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0495-BLK2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, January 04, 2023 16:49:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			24007	44115	5	Standard
	Cl	**37**		ug/L			2678005	2794171	4	Standard
⌈>	**Sc**	**45**		ug/L			354816	376086	0	Standard
|	**Cr**	**52**	**0.061**	ug/L	0.024	39	13544	15272	2	Standard
⌊	**Cr**	**53**	**0.020**	ug/L	0.011	55	153	197	8	Standard
⌈>	**Ge**	**72**		ug/L			14789	15203	1	KED
|	**Ni**	**60**	**0.019**	ug/L	0.005	26	6	20	19	KED
|	**Ni**	**62**	**0.021**	ug/L	0.010	48	4	6	15	KED
|	**Cu**	**63**	**0.023**	ug/L	0.010	42	34	84	23	KED
|	**Cu**	**65**	**0.025**	ug/L	0.006	23	15	42	15	KED
|	**Zn**	**66**	**0.230**	ug/L	0.012	5	22	83	4	KED
|	**Zn**	**67**	**0.195**	ug/L	0.133	68	5	13	43	KED
|	**As**	**75**	**-0.004**	ug/L	0.013	378	6	6	29	KED
⌊	**Se**	**78**	**-0.090**	ug/L	0.150	166	10	9	22	KED
	Y	**89**		ug/L			222841	232176	2	Standard
	Kr	**83**		ug/L			76	62	40	Standard
⌈>	**In-1**	**115**		ug/L			4607	4716	2	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.009	2498	1	1	91	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.007	401	3	2	121	KED
⌈>	**In**	**115**		ug/L			342991	356450	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	186	36	46	36	Standard
⌈>	**Tb**	**159**		ug/L			548682	562535	3	Standard
⌊	**Pb**	**208**	**0.010**	ug/L	0.001	9	142	586	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0495-BS2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, January 04, 2023 16:53:48
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			24007	43757	1	Standard
	Cl	**37**		ug/L			2678005	2874182	1	Standard
⌈>	**Sc**	**45**		ug/L			354816	373254	0	Standard
|	**Cr**	**52**	**25.571**	ug/L	0.454	1	13544	395308	1	Standard
⌊	**Cr**	**53**	**25.586**	ug/L	0.232	0	153	44170	1	Standard
⌈>	**Ge**	**72**		ug/L			14789	15233	0	KED
|	**Ni**	**60**	**25.917**	ug/L	0.990	3	6	18517	4	KED
|	**Ni**	**62**	**25.637**	ug/L	0.880	3	4	3001	3	KED
|	**Cu**	**63**	**25.532**	ug/L	1.039	4	34	55287	4	KED
|	**Cu**	**65**	**26.702**	ug/L	0.673	2	15	28233	2	KED
|	**Zn**	**66**	**82.063**	ug/L	0.832	1	22	21787	0	KED
|	**Zn**	**67**	**75.904**	ug/L	2.206	2	5	3401	2	KED
|	**As**	**75**	**24.732**	ug/L	0.597	2	6	3446	1	KED
⌊	**Se**	**78**	**78.885**	ug/L	1.880	2	10	1136	1	KED
	Y	**89**		ug/L			222841	228548	0	Standard
	Kr	**83**		ug/L			76	69	12	Standard
⌈>	**In-1**	**115**		ug/L			4607	4803	1	KED
|	**Cd**	**111**	**25.731**	ug/L	0.319	1	1	4348	2	KED
⌊	**Cd**	**114**	**25.698**	ug/L	0.412	1	3	11033	2	KED
⌈>	**In**	**115**		ug/L			342991	353001	1	Standard
⌊	**Ag**	**107**	**24.650**	ug/L	0.885	3	36	377964	2	Standard
⌈>	**Tb**	**159**		ug/L			548682	564887	0	Standard
⌊	**Pb**	**208**	**26.308**	ug/L	0.309	1	142	1192770	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0039-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 16:58:25
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			24007	33443	2	Standard
	Cl	37		ug/L			2678005	2762943	0	Standard
⌈>	Sc	45		ug/L			354816	364864	0	Standard
|	Cr	52	0.036	ug/L	0.027	74	13544	14452	2	Standard
⌊	Cr	53	0.012	ug/L	0.005	40	153	177	5	Standard
⌈>	Ge	72		ug/L			14789	14761	0	KED
|	Ni	60	0.002	ug/L	0.007	397	6	7	66	KED
|	Ni	62	0.006	ug/L	0.009	167	4	5	21	KED
|	Cu	63	0.027	ug/L	0.006	21	34	91	13	KED
|	Cu	65	0.030	ug/L	0.010	32	15	45	22	KED
|	Zn	66	0.148	ug/L	0.008	5	22	60	3	KED
|	Zn	67	0.263	ug/L	0.099	37	5	16	26	KED
|	As	75	-0.008	ug/L	0.013	154	6	5	31	KED
⌊	Se	78	-0.091	ug/L	0.202	223	10	9	30	KED
	Y	89		ug/L			222841	226758	2	Standard
	Kr	83		ug/L			76	62	6	Standard
⌈>	In-1	115		ug/L			4607	4821	2	KED
|	Cd	111	0.003	ug/L	0.006	195	1	2	49	KED
⌊	Cd	114	-0.002	ug/L	0.002	125	3	2	46	KED
⌈>	In	115		ug/L			342991	344392	0	Standard
⌊	Ag	107	0.003	ug/L	0.001	14	36	87	7	Standard
⌈>	Tb	159		ug/L			548682	548768	1	Standard
⌊	Pb	208	0.005	ug/L	0.000	6	142	347	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0039-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 17:03:03
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			24007	33868	1	Standard
	Cl	37		ug/L			2678005	2732662	1	Standard
⌈>	Sc	45		ug/L			354816	356455	1	Standard
|	Cr	52	25.691	ug/L	0.599	2	13544	379178	1	Standard
⌊	Cr	53	26.155	ug/L	0.207	0	153	43113	0	Standard
⌈>	Ge	72		ug/L			14789	14744	1	KED
|	Ni	60	25.834	ug/L	0.306	1	6	17861	0	KED
|	Ni	62	25.265	ug/L	0.231	0	4	2863	2	KED
|	Cu	63	26.150	ug/L	1.163	4	34	54772	2	KED
|	Cu	65	26.164	ug/L	1.182	4	15	26762	2	KED
|	Zn	66	83.416	ug/L	2.625	3	22	21427	1	KED
|	Zn	67	78.028	ug/L	2.669	3	5	3382	2	KED
|	As	75	25.014	ug/L	0.521	2	6	3373	0	KED
⌊	Se	78	82.406	ug/L	4.802	5	10	1148	4	KED
	Y	89		ug/L			222841	225421	1	Standard
	Kr	83		ug/L			76	73	6	Standard
⌈>	In-1	115		ug/L			4607	4560	2	KED
|	Cd	111	26.663	ug/L	0.954	3	1	4274	0	KED
⌊	Cd	114	26.506	ug/L	0.594	2	3	10799	2	KED
⌈>	In	115		ug/L			342991	343537	2	Standard
⌊	Ag	107	24.445	ug/L	0.683	2	36	364710	1	Standard
⌈>	Tb	159		ug/L			548682	544066	0	Standard
⌊	Pb	208	26.421	ug/L	0.032	0	142	1153844	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0007-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Wednesday, January 04, 2023 17:07:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			24007	214802	3	Standard
	Cl	37		ug/L			2678005	3064427	2	Standard
⌈>	Sc	45		ug/L			354816	365602	1	Standard
|	Cr	52	1.603	ug/L	0.063	3	13544	37353	2	Standard
⌊	Cr	53	0.809	ug/L	0.020	2	153	1521	0	Standard
⌈>	Ge	72		ug/L			14789	13745	2	KED
|	Ni	60	6.756	ug/L	0.135	1	6	4359	3	KED
|	Ni	62	6.844	ug/L	0.467	6	4	725	4	KED
|	Cu	63	0.864	ug/L	0.019	2	34	1718	0	KED
|	Cu	65	0.904	ug/L	0.043	4	15	875	3	KED
|	Zn	66	1.482	ug/L	0.185	12	22	374	9	KED
|	Zn	67	2.308	ug/L	0.177	7	5	97	4	KED
|	As	75	0.031	ug/L	0.029	93	6	9	39	KED
⌊	Se	78	0.029	ug/L	0.237	810	10	10	29	KED
	Y	89		ug/L			222841	234661	1	Standard
	Kr	83		ug/L			76	69	8	Standard
⌈>	In-1	115		ug/L			4607	4573	3	KED
|	Cd	111	0.004	ug/L	0.013	347	1	2	98	KED
⌊	Cd	114	-0.002	ug/L	0.004	242	3	2	72	KED
⌈>	In	115		ug/L			342991	327257	0	Standard
⌊	Ag	107	0.005	ug/L	0.001	21	36	109	14	Standard
⌈>	Tb	159		ug/L			548682	545497	1	Standard
⌊	Pb	208	0.046	ug/L	0.002	3	142	2156	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0021-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, January 04, 2023 17:13:48
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			24007	31175	1	Standard
	Cl	37		ug/L			2678005	4765094	1	Standard
⌈>	Sc	45		ug/L			354816	365997	1	Standard
|	Cr	52	1.917	ug/L	0.014	0	13544	41979	1	Standard
⌊	Cr	53	5.673	ug/L	0.108	1	153	9724	1	Standard
⌈>	Ge	72		ug/L			14789	14439	1	KED
|	Ni	60	1.199	ug/L	0.093	7	6	817	6	KED
|	Ni	62	1.326	ug/L	0.161	12	4	151	10	KED
|	Cu	63	7.183	ug/L	0.031	0	34	14767	1	KED
|	Cu	65	7.345	ug/L	0.284	3	15	7369	2	KED
|	Zn	66	31.545	ug/L	0.569	1	22	7950	0	KED
|	Zn	67	28.312	ug/L	0.482	1	5	1205	3	KED
|	As	75	0.079	ug/L	0.005	6	6	16	2	KED
⌊	Se	78	-0.146	ug/L	0.117	79	10	8	19	KED
	Y	89		ug/L			222841	227744	1	Standard
	Kr	83		ug/L			76	73	3	Standard
⌈>	In-1	115		ug/L			4607	4635	3	KED
|	Cd	111	0.115	ug/L	0.012	10	1	20	7	KED
⌊	Cd	114	0.093	ug/L	0.024	25	3	41	27	KED
⌈>	In	115		ug/L			342991	340902	1	Standard
⌊	Ag	107	0.012	ug/L	0.002	16	36	219	12	Standard
⌈>	Tb	159		ug/L			548682	558225	0	Standard
⌊	Pb	208	0.152	ug/L	0.004	2	142	6974	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0564-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 17:19:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			24007	35677	0	Standard
	Cl	**37**		ug/L			2678005	3711322	1	Standard
⌈>	**Sc**	**45**		ug/L			354816	371658	0	Standard
|	**Cr**	**52**	**0.244**	ug/L	0.016	6	13544	17809	2	Standard
⌊	**Cr**	**53**	**2.019**	ug/L	0.021	1	153	3618	0	Standard
⌈>	**Ge**	**72**		ug/L			14789	14603	1	KED
|	**Ni**	**60**	**0.299**	ug/L	0.041	13	6	210	12	KED
|	**Ni**	**62**	**0.397**	ug/L	0.075	18	4	48	17	KED
|	**Cu**	**63**	**1.679**	ug/L	0.035	2	34	3518	2	KED
|	**Cu**	**65**	**1.709**	ug/L	0.015	0	15	1746	2	KED
|	**Zn**	**66**	**51.503**	ug/L	1.205	2	22	13114	1	KED
|	**Zn**	**67**	**49.235**	ug/L	2.452	4	5	2116	5	KED
|	**As**	**75**	**0.102**	ug/L	0.001	0	6	19	1	KED
⌊	**Se**	**78**	**-0.013**	ug/L	0.117	920	10	10	16	KED
	Y	**89**		ug/L			222841	231760	0	Standard
	Kr	**83**		ug/L			76	55	20	Standard
⌈>	**In-1**	**115**		ug/L			4607	4803	2	KED
|	**Cd**	**111**	**0.054**	ug/L	0.012	21	1	10	18	KED
⌊	**Cd**	**114**	**0.034**	ug/L	0.019	54	3	18	46	KED
⌈>	**In**	**115**		ug/L			342991	347519	1	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.001	22	36	80	11	Standard
⌈>	**Tb**	**159**		ug/L			548682	567579	1	Standard
⌊	**Pb**	**208**	**0.111**	ug/L	0.004	3	142	5200	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0565-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 17:24:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			24007	33133	3	Standard
	Cl	**37**		ug/L			2678005	2844361	0	Standard
⌈>	**Sc**	**45**		ug/L			354816	363187	0	Standard
|	**Cr**	**52**	**1.645**	ug/L	0.032	1	13544	37710	0	Standard
⌊	**Cr**	**53**	**1.694**	ug/L	0.026	1	153	2991	0	Standard
⌈>	**Ge**	**72**		ug/L			14789	14583	2	KED
|	**Ni**	**60**	**0.036**	ug/L	0.005	14	6	31	9	KED
|	**Ni**	**62**	**0.052**	ug/L	0.036	69	4	10	39	KED
|	**Cu**	**63**	**5.912**	ug/L	0.253	4	34	12275	2	KED
|	**Cu**	**65**	**5.990**	ug/L	0.346	5	15	6070	3	KED
|	**Zn**	**66**	**17.778**	ug/L	0.555	3	22	4534	1	KED
|	**Zn**	**67**	**16.641**	ug/L	0.536	3	5	717	1	KED
|	**As**	**75**	**8.780**	ug/L	0.216	2	6	1174	0	KED
⌊	**Se**	**78**	**0.000**	ug/L	0.048	11606	10	10	4	KED
	Y	**89**		ug/L			222841	224599	1	Standard
	Kr	**83**		ug/L			76	66	19	Standard
⌈>	**In-1**	**115**		ug/L			4607	4637	2	KED
|	**Cd**	**111**	**0.035**	ug/L	0.005	15	1	7	15	KED
⌊	**Cd**	**114**	**0.014**	ug/L	0.013	92	3	8	59	KED
⌈>	**In**	**115**		ug/L			342991	347338	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	118	36	49	30	Standard
⌈>	**Tb**	**159**		ug/L			548682	558850	0	Standard
⌊	**Pb**	**208**	**0.272**	ug/L	0.006	2	142	12329	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0181-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 17:29:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			24007	38448	4	Standard
	Cl	**37**		ug/L			2678005	2839678	3	Standard
⌈>	**Sc**	**45**		ug/L			354816	379811	0	Standard
|	**Cr**	**52**	**0.710**	ug/L	0.033	4	13544	25262	2	Standard
⌊	**Cr**	**53**	**0.879**	ug/L	0.021	2	153	1702	1	Standard
⌈>	**Ge**	**72**		ug/L			14789	12850	2	KED
|	**Ni**	**60**	**1.187**	ug/L	0.083	7	6	720	4	KED
|	**Ni**	**62**	**1.250**	ug/L	0.123	9	4	126	7	KED
|	**Cu**	**63**	**5.324**	ug/L	0.078	1	34	9746	1	KED
|	**Cu**	**65**	**5.485**	ug/L	0.111	2	15	4901	0	KED
|	**Zn**	**66**	**15.924**	ug/L	0.287	1	22	3581	1	KED
|	**Zn**	**67**	**20.070**	ug/L	1.045	5	5	761	3	KED
|	**As**	**75**	**1.094**	ug/L	0.027	2	6	133	0	KED
⌊	**Se**	**78**	**3.163**	ug/L	0.488	15	10	47	13	KED
	Y	**89**		ug/L			222841	217292	0	Standard
	Kr	**83**		ug/L			76	61	18	Standard
⌈>	**In-1**	**115**		ug/L			4607	4058	2	KED
|	**Cd**	**111**	**0.079**	ug/L	0.002	2	1	12	4	KED
⌊	**Cd**	**114**	**0.071**	ug/L	0.034	48	3	28	46	KED
⌈>	**In**	**115**		ug/L			342991	304576	0	Standard
⌊	**Ag**	**107**	**0.006**	ug/L	0.001	10	36	115	6	Standard
⌈>	**Tb**	**159**		ug/L			548682	524871	1	Standard
⌊	**Pb**	**208**	**1.198**	ug/L	0.036	3	142	50578	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 17:34:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			24007	25909	3	Standard
	Cl	**37**		ug/L			2678005	2819855	1	Standard
⌈>	**Sc**	**45**		ug/L			354816	337365	1	Standard
|	**Cr**	**52**	**0.045**	ug/L	0.014	32	13544	13481	0	Standard
⌊	**Cr**	**53**	**0.004**	ug/L	0.003	80	153	152	2	Standard
⌈>	**Ge**	**72**		ug/L			14789	14593	0	KED
|	**Ni**	**60**	**-0.002**	ug/L	0.002	94	6	5	21	KED
|	**Ni**	**62**	**0.018**	ug/L	0.010	55	4	6	17	KED
|	**Cu**	**63**	**7.838**	ug/L	0.299	3	34	16281	3	KED
|	**Cu**	**65**	**7.884**	ug/L	0.158	2	15	7996	1	KED
|	**Zn**	**66**	**-0.004**	ug/L	0.040	1112	22	20	48	KED
|	**Zn**	**67**	**-0.028**	ug/L	0.001	2	5	3	0	KED
|	**As**	**75**	**-0.002**	ug/L	0.008	442	6	6	18	KED
⌊	**Se**	**78**	**-0.143**	ug/L	0.076	53	10	8	12	KED
	Y	**89**		ug/L			222841	212718	0	Standard
	Kr	**83**		ug/L			76	59	3	Standard
⌈>	**In-1**	**115**		ug/L			4607	4722	3	KED
|	**Cd**	**111**	**0.008**	ug/L	0.016	200	1	2	88	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.007	2958	3	3	93	KED
⌈>	**In**	**115**		ug/L			342991	336372	1	Standard
⌊	**Ag**	**107**	**0.034**	ug/L	0.001	2	36	530	4	Standard
⌈>	**Tb**	**159**		ug/L			548682	543582	0	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	55	142	156	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 17:38:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			24007	24128	1	Standard
	Cl	**37**		ug/L			2678005	2827712	1	Standard
⌈>	**Sc**	**45**		ug/L			354816	349387	2	Standard
|	**Cr**	**52**	**50.097**	ug/L	2.384	4	13544	711688	2	Standard
⌊	**Cr**	**53**	**50.316**	ug/L	1.024	2	153	81138	0	Standard
⌈>	**Ge**	**72**		ug/L			14789	14328	0	KED
|	**Ni**	**60**	**49.275**	ug/L	0.597	1	6	33107	1	KED
|	**Ni**	**62**	**49.934**	ug/L	0.266	0	4	5494	0	KED
|	**Cu**	**63**	**48.855**	ug/L	0.147	0	34	99467	0	KED
|	**Cu**	**65**	**50.204**	ug/L	0.603	1	15	49917	1	KED
|	**Zn**	**66**	**50.202**	ug/L	0.409	0	22	12545	0	KED
|	**Zn**	**67**	**49.164**	ug/L	0.368	0	5	2073	0	KED
|	**As**	**75**	**51.353**	ug/L	0.466	0	6	6724	0	KED
⌊	**Se**	**78**	**51.796**	ug/L	0.776	1	10	705	1	KED
	Y	**89**		ug/L			222841	226382	1	Standard
	Kr	**83**		ug/L			76	88	5	Standard
⌈>	**In-1**	**115**		ug/L			4607	4601	2	KED
|	**Cd**	**111**	**51.689**	ug/L	0.023	0	1	8365	2	KED
⌊	**Cd**	**114**	**51.075**	ug/L	0.793	1	3	20996	1	KED
⌈>	**In**	**115**		ug/L			342991	354326	1	Standard
⌊	**Ag**	**107**	**45.744**	ug/L	1.210	2	36	704236	3	Standard
⌈>	**Tb**	**159**		ug/L			548682	587065	1	Standard
⌊	**Pb**	**208**	**47.819**	ug/L	1.069	2	142	2252838	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 17:46:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			24007	24737	7	Standard
	Cl	**37**		ug/L			2678005	2686063	2	Standard
⌈>	**Sc**	**45**		ug/L			354816	340275	0	Standard
|	**Cr**	**52**	**0.053**	ug/L	0.015	27	13544	13704	1	Standard
⌊	**Cr**	**53**	**-0.013**	ug/L	0.009	69	153	126	11	Standard
⌈>	**Ge**	**72**		ug/L			14789	14167	0	KED
|	**Ni**	**60**	**-0.002**	ug/L	0.002	67	6	4	24	KED
|	**Ni**	**62**	**0.008**	ug/L	0.010	133	4	5	21	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.004	329	34	31	24	KED
|	**Cu**	**65**	**0.003**	ug/L	0.009	283	15	17	50	KED
|	**Zn**	**66**	**0.063**	ug/L	0.051	81	22	36	34	KED
|	**Zn**	**67**	**-0.010**	ug/L	0.053	523	5	4	49	KED
|	**As**	**75**	**0.009**	ug/L	0.018	192	6	7	32	KED
⌊	**Se**	**78**	**-0.204**	ug/L	0.192	94	10	7	33	KED
	Y	**89**		ug/L			222841	219743	3	Standard
	Kr	**83**		ug/L			76	66	16	Standard
⌈>	**In-1**	**115**		ug/L			4607	4716	3	KED
|	**Cd**	**111**	**0.013**	ug/L	0.006	45	1	3	25	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.008	145	3	5	66	KED
⌈>	**In**	**115**		ug/L			342991	343615	1	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.001	21	36	78	12	Standard
⌈>	**Tb**	**159**		ug/L			548682	555620	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	56	142	180	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0035-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 17:53:50
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			24007	29387	4	Standard
	Cl	**37**		ug/L			2678005	2821895	1	Standard
⌈>	**Sc**	**45**		ug/L			354816	369448	1	Standard
|	**Cr**	**52**	**0.067**	ug/L	0.016	24	13544	15089	0	Standard
⌊	**Cr**	**53**	**0.060**	ug/L	0.011	18	153	262	5	Standard
⌈>	**Ge**	**72**		ug/L			14789	15240	2	KED
|	**Ni**	**60**	**0.038**	ug/L	0.016	42	6	33	36	KED
|	**Ni**	**62**	**0.026**	ug/L	0.017	64	4	7	25	KED
|	**Cu**	**63**	**0.061**	ug/L	0.006	10	34	168	10	KED
|	**Cu**	**65**	**0.066**	ug/L	0.011	16	15	85	15	KED
|	**Zn**	**66**	**0.947**	ug/L	0.021	2	22	274	4	KED
|	**Zn**	**67**	**0.975**	ug/L	0.043	4	5	48	5	KED
|	**As**	**75**	**0.044**	ug/L	0.029	64	6	12	31	KED
⌊	**Se**	**78**	**-0.031**	ug/L	0.065	211	10	10	10	KED
	Y	**89**		ug/L			222841	226528	0	Standard
	Kr	**83**		ug/L			76	62	10	Standard
⌈>	**In-1**	**115**		ug/L			4607	4910	1	KED
|	**Cd**	**111**	**0.003**	ug/L	0.008	272	1	2	65	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.007	234	3	1	170	KED
⌈>	**In**	**115**		ug/L			342991	365987	1	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.001	49	36	84	26	Standard
⌈>	**Tb**	**159**		ug/L			548682	583849	2	Standard
⌊	**Pb**	**208**	**0.028**	ug/L	0.002	6	142	1466	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0035-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 17:58:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			24007	29619	1	Standard
	Cl	**37**		ug/L			2678005	2752873	1	Standard
⌈>	**Sc**	**45**		ug/L			354816	369226	0	Standard
|	**Cr**	**52**	**24.670**	ug/L	0.736	2	13544	377752	2	Standard
⌊	**Cr**	**53**	**25.373**	ug/L	0.456	1	153	43327	1	Standard
⌈>	**Ge**	**72**		ug/L			14789	15785	1	KED
|	**Ni**	**60**	**24.494**	ug/L	0.648	2	6	18128	1	KED
|	**Ni**	**62**	**24.976**	ug/L	1.089	4	4	3031	6	KED
|	**Cu**	**63**	**24.712**	ug/L	0.242	0	34	55445	1	KED
|	**Cu**	**65**	**24.663**	ug/L	0.621	2	15	27020	2	KED
|	**Zn**	**66**	**78.991**	ug/L	1.504	1	22	21733	2	KED
|	**Zn**	**67**	**73.478**	ug/L	4.743	6	5	3411	6	KED
|	**As**	**75**	**24.130**	ug/L	0.469	1	6	3483	0	KED
⌊	**Se**	**78**	**78.953**	ug/L	1.033	1	10	1179	1	KED
	Y	**89**		ug/L			222841	226129	2	Standard
	Kr	**83**		ug/L			76	71	4	Standard
⌈>	**In-1**	**115**		ug/L			4607	5090	0	KED
|	**Cd**	**111**	**24.814**	ug/L	0.319	1	1	4443	1	KED
⌊	**Cd**	**114**	**24.770**	ug/L	0.276	1	3	11269	1	KED
⌈>	**In**	**115**		ug/L			342991	370728	0	Standard
⌊	**Ag**	**107**	**22.921**	ug/L	0.157	0	36	369184	0	Standard
⌈>	**Tb**	**159**		ug/L			548682	578989	1	Standard
⌊	**Pb**	**208**	**25.408**	ug/L	0.794	3	142	1180571	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0035-BSD1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 18:03:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			24007	29905	2	Standard
	Cl	**37**		ug/L			2678005	2756320	1	Standard
⌈>	**Sc**	**45**		ug/L			354816	371777	2	Standard
|	**Cr**	**52**	**24.817**	ug/L	0.626	2	13544	382436	1	Standard
⌊	**Cr**	**53**	**24.864**	ug/L	0.531	2	153	42745	1	Standard
⌈>	**Ge**	**72**		ug/L			14789	15746	0	KED
|	**Ni**	**60**	**24.183**	ug/L	0.605	2	6	17857	1	KED
|	**Ni**	**62**	**24.898**	ug/L	0.172	0	4	3013	0	KED
|	**Cu**	**63**	**24.346**	ug/L	0.948	3	34	54482	3	KED
|	**Cu**	**65**	**24.720**	ug/L	0.538	2	15	27017	1	KED
|	**Zn**	**66**	**79.722**	ug/L	2.655	3	22	21876	2	KED
|	**Zn**	**67**	**74.952**	ug/L	1.352	1	5	3471	1	KED
|	**As**	**75**	**24.135**	ug/L	0.402	1	6	3476	0	KED
⌊	**Se**	**78**	**78.810**	ug/L	0.818	1	10	1174	0	KED
	Y	**89**		ug/L			222841	226730	0	Standard
	Kr	**83**		ug/L			76	64	1	Standard
⌈>	**In-1**	**115**		ug/L			4607	4965	0	KED
|	**Cd**	**111**	**24.633**	ug/L	0.680	2	1	4302	1	KED
⌊	**Cd**	**114**	**24.385**	ug/L	0.435	1	3	10821	1	KED
⌈>	**In**	**115**		ug/L			342991	357362	1	Standard
⌊	**Ag**	**107**	**23.660**	ug/L	0.402	1	36	367370	2	Standard
⌈>	**Tb**	**159**		ug/L			548682	582653	1	Standard
⌊	**Pb**	**208**	**24.919**	ug/L	0.656	2	142	1165133	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0601-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, January 04, 2023 18:08:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			24007	29853	4	Standard
	Cl	37		ug/L			2678005	3307978	3	Standard
>	Sc	45		ug/L			354816	355349	0	Standard
	Cr	52	1.447	ug/L	0.043	2	13544	34090	1	Standard
	Cr	53	2.200	ug/L	0.053	2	153	3756	2	Standard
>	Ge	72		ug/L			14789	14739	2	KED
	Ni	60	10.876	ug/L	0.156	1	6	7521	3	KED
	Ni	62	11.075	ug/L	0.650	5	4	1257	6	KED
	Cu	63	11.461	ug/L	0.141	1	34	24033	3	KED
	Cu	65	11.655	ug/L	0.441	3	15	11930	4	KED
	Zn	66	4.160	ug/L	0.245	5	22	1088	4	KED
	Zn	67	4.716	ug/L	0.458	9	5	209	11	KED
	As	75	0.973	ug/L	0.067	6	6	137	8	KED
	Se	78	0.728	ug/L	0.117	16	10	20	5	KED
	Y	89		ug/L			222841	226092	1	Standard
	Kr	83		ug/L			76	60	13	Standard
>	In-1	115		ug/L			4607	4595	0	KED
	Cd	111	0.008	ug/L	0.012	149	1	2	66	KED
	Cd	114	0.002	ug/L	0.005	232	3	3	51	KED
>	In	115		ug/L			342991	340047	1	Standard
	Ag	107	0.008	ug/L	0.001	17	36	149	11	Standard
>	Tb	159		ug/L			548682	577113	1	Standard
	Pb	208	0.256	ug/L	0.005	1	142	12000	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0604-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, January 04, 2023 18:13:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			24007	42800	3	Standard
	Cl	37		ug/L			2678005	4426707	1	Standard
⌈>	Sc	45		ug/L			354816	368281	1	Standard
|	Cr	52	0.959	ug/L	0.038	3	13544	28155	1	Standard
⌊	Cr	53	4.240	ug/L	0.030	0	153	7355	2	Standard
⌈>	Ge	72		ug/L			14789	14143	2	KED
|	Ni	60	6.044	ug/L	0.275	4	6	4012	4	KED
|	Ni	62	6.186	ug/L	0.298	4	4	676	7	KED
|	Cu	63	32.377	ug/L	0.016	0	34	65078	2	KED
|	Cu	65	33.336	ug/L	1.338	4	15	32698	1	KED
|	Zn	66	35.246	ug/L	0.664	1	22	8698	2	KED
|	Zn	67	32.078	ug/L	1.230	3	5	1336	2	KED
|	As	75	5.630	ug/L	0.200	3	6	732	0	KED
⌊	Se	78	0.855	ug/L	0.279	32	10	21	14	KED
	Y	89		ug/L			222841	218853	1	Standard
	Kr	83		ug/L			76	59	4	Standard
⌈>	In-1	115		ug/L			4607	4370	2	KED
|	Cd	111	0.085	ug/L	0.019	22	1	14	19	KED
⌊	Cd	114	0.063	ug/L	0.020	31	3	27	30	KED
⌈>	In	115		ug/L			342991	334710	1	Standard
⌊	Ag	107	0.096	ug/L	0.003	3	36	1430	3	Standard
⌈>	Tb	159		ug/L			548682	565750	2	Standard
⌊	Pb	208	6.312	ug/L	0.181	2	142	286622	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-01
Sample Dil Factor: 50
Comments:
Sample Date/Time: Wednesday, January 04, 2023 18:18:17
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			24007	37834	3	Standard
	Cl	**37**		ug/L			2678005	2818117	1	Standard
⌈>	**Sc**	**45**		ug/L			354816	415011	0	Standard
|	**Cr**	**52**	**6.396**	ug/L	0.203	3	13544	121800	2	Standard
⌊	**Cr**	**53**	**6.598**	ug/L	0.204	3	153	12796	2	Standard
⌈>	**Ge**	**72**		ug/L			14789	15213	1	KED
|	**Ni**	**60**	**6.353**	ug/L	0.197	3	6	4536	2	KED
|	**Ni**	**62**	**6.348**	ug/L	0.514	8	4	746	9	KED
|	**Cu**	**63**	**10.349**	ug/L	0.196	1	34	22399	1	KED
|	**Cu**	**65**	**10.759**	ug/L	0.159	1	15	11372	2	KED
|	**Zn**	**66**	**22.258**	ug/L	1.334	5	22	5917	5	KED
|	**Zn**	**67**	**21.543**	ug/L	1.231	5	5	967	5	KED
|	**As**	**75**	**2.538**	ug/L	0.066	2	6	359	1	KED
⌊	**Se**	**78**	**0.573**	ug/L	0.191	33	10	19	15	KED
	Y	**89**		ug/L			222841	329027	2	Standard
	Kr	**83**		ug/L			76	97	21	Standard
⌈>	**In-1**	**115**		ug/L			4607	4868	2	KED
|	**Cd**	**111**	**0.076**	ug/L	0.013	17	1	14	13	KED
⌊	**Cd**	**114**	**0.070**	ug/L	0.017	24	3	33	23	KED
⌈>	**In**	**115**		ug/L			342991	359421	1	Standard
⌊	**Ag**	**107**	**0.053**	ug/L	0.004	8	36	859	7	Standard
⌈>	**Tb**	**159**		ug/L			548682	588138	1	Standard
⌊	**Pb**	**208**	**4.807**	ug/L	0.096	1	142	227006	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0495-DUP2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Wednesday, January 04, 2023 18:22:54
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			24007	40979	3	Standard
	Cl	37		ug/L			2678005	2691364	1	Standard
>	Sc	45		ug/L			354816	410597	1	Standard
	Cr	52	6.326	ug/L	0.150	2	13544	119348	0	Standard
	Cr	53	6.392	ug/L	0.135	2	153	12269	0	Standard
>	Ge	72		ug/L			14789	15228	0	KED
	Ni	60	5.957	ug/L	0.327	5	6	4258	4	KED
	Ni	62	6.039	ug/L	0.588	9	4	709	8	KED
	Cu	63	10.544	ug/L	0.094	0	34	22843	0	KED
	Cu	65	10.688	ug/L	0.402	3	15	11304	2	KED
	Zn	66	22.156	ug/L	0.978	4	22	5895	3	KED
	Zn	67	22.595	ug/L	0.568	2	5	1015	3	KED
	As	75	2.409	ug/L	0.035	1	6	341	1	KED
	Se	78	0.519	ug/L	0.085	16	10	18	5	KED
	Y	89		ug/L			222841	322084	2	Standard
	Kr	83		ug/L			76	107	14	Standard
>	In-1	115		ug/L			4607	4821	1	KED
	Cd	111	0.071	ug/L	0.019	26	1	13	22	KED
	Cd	114	0.075	ug/L	0.028	36	3	35	34	KED
>	In	115		ug/L			342991	356663	0	Standard
	Ag	107	0.047	ug/L	0.001	2	36	765	2	Standard
>	Tb	159		ug/L			548682	588215	1	Standard
	Pb	208	5.118	ug/L	0.057	1	142	241731	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0495-MS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Wednesday, January 04, 2023 18:27:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			24007	40583	4	Standard
	Cl	37		ug/L			2678005	2762871	1	Standard
⌈>	Sc	45		ug/L			354816	417746	2	Standard
|	Cr	52	15.301	ug/L	0.555	3	13544	270952	0	Standard
⌊	Cr	53	15.124	ug/L	0.234	1	153	29286	1	Standard
⌈>	Ge	72		ug/L			14789	15230	0	KED
|	Ni	60	16.246	ug/L	0.119	0	6	11607	1	KED
|	Ni	62	16.537	ug/L	1.020	6	4	1937	6	KED
|	Cu	63	20.528	ug/L	0.583	2	34	44449	3	KED
|	Cu	65	20.567	ug/L	0.242	1	15	21744	0	KED
|	Zn	66	55.772	ug/L	0.501	0	22	14812	1	KED
|	Zn	67	52.195	ug/L	3.608	6	5	2340	7	KED
|	As	75	12.297	ug/L	0.142	1	6	1716	0	KED
⌊	Se	78	34.383	ug/L	1.694	4	10	501	5	KED
	Y	89		ug/L			222841	331100	2	Standard
	Kr	83		ug/L			76	88	19	Standard
⌈>	In-1	115		ug/L			4607	5001	2	KED
|	Cd	111	10.114	ug/L	0.349	3	1	1780	3	KED
⌊	Cd	114	10.227	ug/L	0.593	5	3	4569	3	KED
⌈>	In	115		ug/L			342991	365533	0	Standard
⌊	Ag	107	7.644	ug/L	0.163	2	36	121428	2	Standard
⌈>	Tb	159		ug/L			548682	602056	2	Standard
⌊	Pb	208	14.338	ug/L	0.454	3	142	692634	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0495-MSD2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Wednesday, January 04, 2023 18:32:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			24007	39556	3	Standard
	Cl	37		ug/L			2678005	2852578	4	Standard
⌈>	Sc	45		ug/L			354816	417122	0	Standard
|	Cr	52	15.197	ug/L	0.321	2	13544	268977	1	Standard
⌊	Cr	53	15.423	ug/L	0.345	2	153	29827	2	Standard
⌈>	Ge	72		ug/L			14789	15608	3	KED
|	Ni	60	15.862	ug/L	0.461	2	6	11608	1	KED
|	Ni	62	16.308	ug/L	0.339	2	4	1957	3	KED
|	Cu	63	20.219	ug/L	0.453	2	34	44845	1	KED
|	Cu	65	20.205	ug/L	0.445	2	15	21884	1	KED
|	Zn	66	54.217	ug/L	2.259	4	22	14744	1	KED
|	Zn	67	52.631	ug/L	1.416	2	5	2416	0	KED
|	As	75	12.415	ug/L	0.288	2	6	1775	1	KED
⌊	Se	78	33.211	ug/L	2.300	6	10	496	3	KED
	Y	89		ug/L			222841	328890	1	Standard
	Kr	83		ug/L			76	86	7	Standard
⌈>	In-1	115		ug/L			4607	4997	1	KED
|	Cd	111	10.344	ug/L	0.171	1	1	1819	0	KED
⌊	Cd	114	10.054	ug/L	0.268	2	3	4492	2	KED
⌈>	In	115		ug/L			342991	358407	2	Standard
⌊	Ag	107	6.231	ug/L	0.258	4	36	96987	1	Standard
⌈>	Tb	159		ug/L			548682	587834	0	Standard
⌊	Pb	208	14.659	ug/L	0.147	1	142	691742	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL5
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 18:36:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			24007	26750	4	Standard
	Cl	**37**		ug/L			2678005	2762382	3	Standard
⌈>	**Sc**	**45**		ug/L			354816	349184	0	Standard
|	**Cr**	**52**	**0.033**	ug/L	0.012	36	13544	13789	0	Standard
⌊	**Cr**	**53**	**-0.002**	ug/L	0.006	257	153	147	6	Standard
⌈>	**Ge**	**72**		ug/L			14789	14853	1	KED
|	**Ni**	**60**	**-0.001**	ug/L	0.006	640	6	5	66	KED
|	**Ni**	**62**	**0.039**	ug/L	0.010	25	4	8	12	KED
|	**Cu**	**63**	**8.874**	ug/L	0.310	3	34	18755	3	KED
|	**Cu**	**65**	**8.951**	ug/L	0.250	2	15	9235	1	KED
|	**Zn**	**66**	**0.012**	ug/L	0.014	116	22	25	15	KED
|	**Zn**	**67**	**0.057**	ug/L	0.158	275	5	7	90	KED
|	**As**	**75**	**0.006**	ug/L	0.008	149	6	7	17	KED
⌊	**Se**	**78**	**-0.083**	ug/L	0.207	250	10	9	30	KED
	Y	**89**		ug/L			222841	218446	3	Standard
	Kr	**83**		ug/L			76	67	3	Standard
⌈>	**In-1**	**115**		ug/L			4607	4934	4	KED
|	**Cd**	**111**	**0.005**	ug/L	0.012	237	1	2	78	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.005	413	3	3	50	KED
⌈>	**In**	**115**		ug/L			342991	356821	1	Standard
⌊	**Ag**	**107**	**0.041**	ug/L	0.003	7	36	666	7	Standard
⌈>	**Tb**	**159**		ug/L			548682	565052	2	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	37	142	172	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV5
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 18:41:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			24007	25301	3	Standard
	Cl	**37**		ug/L			2678005	2896935	1	Standard
⌈>	**Sc**	**45**		ug/L			354816	360991	0	Standard
|	**Cr**	**52**	**50.022**	ug/L	0.978	1	13544	734639	1	Standard
⌊	**Cr**	**53**	**50.436**	ug/L	0.579	1	153	84059	1	Standard
⌈>	**Ge**	**72**		ug/L			14789	14945	2	KED
|	**Ni**	**60**	**49.187**	ug/L	0.995	2	6	34480	4	KED
|	**Ni**	**62**	**48.690**	ug/L	1.550	3	4	5590	5	KED
|	**Cu**	**63**	**49.100**	ug/L	1.248	2	34	104230	0	KED
|	**Cu**	**65**	**49.650**	ug/L	0.903	1	15	51486	2	KED
|	**Zn**	**66**	**49.388**	ug/L	1.157	2	22	12869	0	KED
|	**Zn**	**67**	**50.959**	ug/L	2.436	4	5	2240	2	KED
|	**As**	**75**	**51.050**	ug/L	1.549	3	6	6969	0	KED
⌊	**Se**	**78**	**53.474**	ug/L	0.542	1	10	759	3	KED
	Y	**89**		ug/L			222841	223379	3	Standard
	Kr	**83**		ug/L			76	81	18	Standard
⌈>	**In-1**	**115**		ug/L			4607	4924	0	KED
|	**Cd**	**111**	**49.661**	ug/L	0.520	1	1	8601	0	KED
⌊	**Cd**	**114**	**49.862**	ug/L	0.438	0	3	21942	1	KED
⌈>	**In**	**115**		ug/L			342991	351969	2	Standard
⌊	**Ag**	**107**	**46.277**	ug/L	1.453	3	36	707287	1	Standard
⌈>	**Tb**	**159**		ug/L			548682	588275	1	Standard
⌊	**Pb**	**208**	**48.659**	ug/L	0.941	1	142	2297057	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB5
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 18:48:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			24007	25355	4	Standard
	Cl	**37**		ug/L			2678005	2706590	3	Standard
⌈>	**Sc**	**45**		ug/L			354816	338167	1	Standard
|	**Cr**	**52**	**0.038**	ug/L	0.009	23	13544	13423	1	Standard
⌊	**Cr**	**53**	**-0.010**	ug/L	0.004	40	153	130	3	Standard
⌈>	**Ge**	**72**		ug/L			14789	14561	1	KED
|	**Ni**	**60**	**-0.004**	ug/L	0.006	161	6	3	100	KED
|	**Ni**	**62**	**0.006**	ug/L	0.026	409	4	5	57	KED
|	**Cu**	**63**	**0.000**	ug/L	0.003	1008	34	34	15	KED
|	**Cu**	**65**	**0.004**	ug/L	0.005	119	15	19	26	KED
|	**Zn**	**66**	**0.004**	ug/L	0.015	383	22	22	16	KED
|	**Zn**	**67**	**0.016**	ug/L	0.116	732	5	5	88	KED
|	**As**	**75**	**-0.001**	ug/L	0.012	2372	6	6	26	KED
⌊	**Se**	**78**	**0.025**	ug/L	0.139	559	10	10	15	KED
	Y	**89**		ug/L			222841	215127	1	Standard
	Kr	**83**		ug/L			76	61	10	Standard
⌈>	**In-1**	**115**		ug/L			4607	4805	4	KED
|	**Cd**	**111**	**0.003**	ug/L	0.003	96	1	2	24	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.005	119	3	1	184	KED
⌈>	**In**	**115**		ug/L			342991	345799	1	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	47	36	60	18	Standard
⌈>	**Tb**	**159**		ug/L			548682	554113	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	57	142	175	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0569-02
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, January 04, 2023 18:59:54
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			24007	36744	0	Standard
	Cl	37		ug/L			2678005	2989645	4	Standard
⌈>	Sc	45		ug/L			354816	363165	3	Standard
|	Cr	52	16.697	ug/L	0.656	3	13544	255768	1	Standard
⌊	Cr	53	16.853	ug/L	0.322	1	153	28350	1	Standard
⌈>	Ge	72		ug/L			14789	13825	2	KED
|	Ni	60	1.090	ug/L	0.007	0	6	712	2	KED
|	Ni	62	1.248	ug/L	0.316	25	4	136	24	KED
|	Cu	63	5.534	ug/L	0.253	4	34	10895	2	KED
|	Cu	65	5.700	ug/L	0.288	5	15	5478	3	KED
|	Zn	66	1.950	ug/L	0.091	4	22	490	4	KED
|	Zn	67	1.947	ug/L	0.103	5	5	83	6	KED
|	As	75	0.128	ug/L	0.032	24	6	22	16	KED
⌊	Se	78	0.036	ug/L	0.152	420	10	10	20	KED
	Y	89		ug/L			222841	228561	1	Standard
	Kr	83		ug/L			76	62	15	Standard
⌈>	In-1	115		ug/L			4607	4396	3	KED
|	Cd	111	0.003	ug/L	0.000	15	1	1		KED
⌊	Cd	114	0.001	ug/L	0.012	1364	3	3	148	KED
⌈>	In	115		ug/L			342991	322635	2	Standard
⌊	Ag	107	0.003	ug/L	0.001	29	36	71	15	Standard
⌈>	Tb	159		ug/L			548682	540211	0	Standard
⌊	Pb	208	0.019	ug/L	0.000	1	142	973	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0569-03
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, January 04, 2023 19:04:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			24007	41999	2	Standard
	Cl	37		ug/L			2678005	2941092	1	Standard
⌈>	Sc	45		ug/L			354816	361321	0	Standard
|	Cr	52	11.098	ug/L	0.257	2	13544	173872	1	Standard
⌊	Cr	53	10.996	ug/L	0.168	1	153	18462	0	Standard
⌈>	Ge	72		ug/L			14789	13766	1	KED
|	Ni	60	0.827	ug/L	0.048	5	6	539	4	KED
|	Ni	62	0.918	ug/L	0.169	18	4	100	16	KED
|	Cu	63	4.724	ug/L	0.267	5	34	9266	4	KED
|	Cu	65	4.687	ug/L	0.115	2	15	4489	0	KED
|	Zn	66	2.358	ug/L	0.125	5	22	586	6	KED
|	Zn	67	2.383	ug/L	0.276	11	5	100	9	KED
|	As	75	0.080	ug/L	0.023	28	6	16	19	KED
⌊	Se	78	0.106	ug/L	0.189	177	10	11	21	KED
	Y	89		ug/L			222841	227100	0	Standard
	Kr	83		ug/L			76	68	16	Standard
⌈>	In-1	115		ug/L			4607	4389	4	KED
|	Cd	111	0.023	ug/L	0.008	36	1	5	21	KED
⌊	Cd	114	0.001	ug/L	0.005	392	3	3	56	KED
⌈>	In	115		ug/L			342991	321024	2	Standard
⌊	Ag	107	0.002	ug/L	0.000	11	36	57	6	Standard
⌈>	Tb	159		ug/L			548682	547824	1	Standard
⌊	Pb	208	0.022	ug/L	0.001	5	142	1099	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0569-04
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, January 04, 2023 19:09:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			24007	42381	5	Standard
	Cl	37		ug/L			2678005	2964794	3	Standard
⌈>	Sc	45		ug/L			354816	367868	0	Standard
|	Cr	52	8.573	ug/L	0.047	0	13544	139947	0	Standard
⌊	Cr	53	8.607	ug/L	0.140	1	153	14750	2	Standard
⌈>	Ge	72		ug/L			14789	13594	0	KED
|	Ni	60	0.697	ug/L	0.072	10	6	450	10	KED
|	Ni	62	0.783	ug/L	0.094	11	4	85	11	KED
|	Cu	63	4.857	ug/L	0.127	2	34	9411	2	KED
|	Cu	65	4.956	ug/L	0.068	1	15	4688	1	KED
|	Zn	66	1.247	ug/L	0.059	4	22	315	4	KED
|	Zn	67	1.028	ug/L	0.239	23	5	45	20	KED
|	As	75	0.069	ug/L	0.020	28	6	14	16	KED
⌊	Se	78	0.320	ug/L	0.134	41	10	13	12	KED
	Y	89		ug/L			222841	230412	0	Standard
	Kr	83		ug/L			76	64	16	Standard
⌈>	In-1	115		ug/L			4607	4413	2	KED
|	Cd	111	0.013	ug/L	0.013	99	1	3	56	KED
⌊	Cd	114	0.011	ug/L	0.014	131	3	7	78	KED
⌈>	In	115		ug/L			342991	323083	1	Standard
⌊	Ag	107	0.001	ug/L	0.000	42	36	46	9	Standard
⌈>	Tb	159		ug/L			548682	549033	0	Standard
⌊	Pb	208	0.010	ug/L	0.001	6	142	563	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0569-05
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, January 04, 2023 19:15:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			24007	40541	5	Standard
	Cl	37		ug/L			2678005	3064987	0	Standard
>	Sc	45		ug/L			354816	373211	1	Standard
	Cr	52	7.962	ug/L	0.134	1	13544	132877	2	Standard
	Cr	53	8.018	ug/L	0.203	2	153	13947	1	Standard
>	Ge	72		ug/L			14789	13979	1	KED
	Ni	60	0.558	ug/L	0.034	6	6	372	6	KED
	Ni	62	0.678	ug/L	0.149	21	4	76	20	KED
	Cu	63	4.487	ug/L	0.113	2	34	8941	0	KED
	Cu	65	4.606	ug/L	0.115	2	15	4481	3	KED
	Zn	66	1.260	ug/L	0.028	2	22	327	3	KED
	Zn	67	1.309	ug/L	0.415	31	5	58	28	KED
	As	75	0.073	ug/L	0.016	22	6	15	15	KED
	Se	78	0.045	ug/L	0.160	357	10	10	21	KED
	Y	89		ug/L			222841	230991	2	Standard
	Kr	83		ug/L			76	60	13	Standard
>	In-1	115		ug/L			4607	4495	1	KED
	Cd	111	0.004	ug/L	0.003	76	1	2	24	KED
	Cd	114	0.007	ug/L	0.005	75	3	5	37	KED
>	In	115		ug/L			342991	328077	2	Standard
	Ag	107	0.000	ug/L	0.000	156	36	37	11	Standard
>	Tb	159		ug/L			548682	556754	1	Standard
	Pb	208	0.010	ug/L	0.001	10	142	579	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL6
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 19:19:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			24007	25723	4	Standard
	Cl	**37**		ug/L			2678005	2959953	4	Standard
⌈>	**Sc**	**45**		ug/L			354816	365432	2	Standard
|	**Cr**	**52**	**0.101**	ug/L	0.008	8	13544	15419	3	Standard
⌊	**Cr**	**53**	**0.004**	ug/L	0.013	299	153	165	12	Standard
⌈>	**Ge**	**72**		ug/L			14789	15422	0	KED
|	**Ni**	**60**	**0.010**	ug/L	0.004	40	6	13	20	KED
|	**Ni**	**62**	**0.052**	ug/L	0.034	64	4	10	36	KED
|	**Cu**	**63**	**0.012**	ug/L	0.002	13	34	62	5	KED
|	**Cu**	**65**	**0.013**	ug/L	0.006	43	15	29	20	KED
|	**Zn**	**66**	**-0.049**	ug/L	0.022	46	22	10	60	KED
|	**Zn**	**67**	**0.009**	ug/L	0.043	458	5	5	33	KED
|	**As**	**75**	**-0.014**	ug/L	0.002	15	6	4	5	KED
⌊	**Se**	**78**	**0.059**	ug/L	0.189	318	10	11	22	KED
	Y	**89**		ug/L			222841	226304	1	Standard
	Kr	**83**		ug/L			76	53	16	Standard
⌈>	**In-1**	**115**		ug/L			4607	4892	2	KED
|	**Cd**	**111**	**0.014**	ug/L	0.011	78	1	4	48	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.003	56	3	1	97	KED
⌈>	**In**	**115**		ug/L			342991	355076	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	48	36	24	27	Standard
⌈>	**Tb**	**159**		ug/L			548682	564280	1	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	54	142	135	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0569-06
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, January 04, 2023 19:24:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			24007	37603	2	Standard
	Cl	37		ug/L			2678005	3014984	2	Standard
⎡>	Sc	45		ug/L			354816	368764	1	Standard
⎢	Cr	52	11.998	ug/L	0.054	0	13544	190703	0	Standard
⎣	Cr	53	12.265	ug/L	0.097	0	153	21000	0	Standard
⎡>	Ge	72		ug/L			14789	13935	1	KED
⎢	Ni	60	0.424	ug/L	0.049	11	6	283	12	KED
⎢	Ni	62	0.585	ug/L	0.136	23	4	66	20	KED
⎢	Cu	63	4.007	ug/L	0.032	0	34	7964	1	KED
⎢	Cu	65	4.015	ug/L	0.115	2	15	3894	1	KED
⎢	Zn	66	1.288	ug/L	0.061	4	22	333	3	KED
⎢	Zn	67	1.309	ug/L	0.288	22	5	58	20	KED
⎢	As	75	0.059	ug/L	0.016	26	6	13	14	KED
⎣	Se	78	0.180	ug/L	0.082	45	10	12	9	KED
	Y	89		ug/L			222841	226549	1	Standard
	Kr	83		ug/L			76	62	4	Standard
⎡>	In-1	115		ug/L			4607	4692	2	KED
⎢	Cd	111	-0.008	ug/L	0.003	42	1	0	173	KED
⎣	Cd	114	0.004	ug/L	0.007	181	3	4	60	KED
⎡>	In	115		ug/L			342991	331877	1	Standard
⎣	Ag	107	0.000	ug/L	0.001	3055	36	35	37	Standard
⎡>	Tb	159		ug/L			548682	558051	0	Standard
⎣	Pb	208	0.023	ug/L	0.001	4	142	1162	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0569-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, January 04, 2023 19:28:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			24007	35424	3	Standard
	Cl	37		ug/L			2678005	2940503	4	Standard
⌈>	Sc	45		ug/L			354816	368252	1	Standard
|	Cr	52	9.460	ug/L	0.092	0	13544	153124	1	Standard
⌊	Cr	53	9.424	ug/L	0.079	0	153	16152	2	Standard
⌈>	Ge	72		ug/L			14789	14524	3	KED
|	Ni	60	0.523	ug/L	0.036	6	6	362	9	KED
|	Ni	62	0.629	ug/L	0.095	15	4	74	11	KED
|	Cu	63	4.597	ug/L	0.077	1	34	9514	2	KED
|	Cu	65	4.675	ug/L	0.209	4	15	4720	1	KED
|	Zn	66	2.502	ug/L	0.210	8	22	654	9	KED
|	Zn	67	2.612	ug/L	0.214	8	5	116	4	KED
|	As	75	0.081	ug/L	0.015	18	6	16	9	KED
⌊	Se	78	0.026	ug/L	0.181	696	10	10	19	KED
	Y	89		ug/L			222841	229436	1	Standard
	Kr	83		ug/L			76	66	15	Standard
⌈>	In-1	115		ug/L			4607	4676	2	KED
|	Cd	111	0.008	ug/L	0.005	72	1	2	33	KED
⌊	Cd	114	0.001	ug/L	0.007	826	3	3	87	KED
⌈>	In	115		ug/L			342991	329716	1	Standard
⌊	Ag	107	0.000	ug/L	0.000	71	36	40	9	Standard
⌈>	Tb	159		ug/L			548682	556877	0	Standard
⌊	Pb	208	0.012	ug/L	0.000	2	142	693	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0039-DUP1
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, January 04, 2023 19:34:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			24007	35205	2	Standard
	Cl	37		ug/L			2678005	2944454	0	Standard
⌈>	Sc	45		ug/L			354816	368736	3	Standard
|	Cr	52	9.709	ug/L	0.254	2	13544	156933	0	Standard
⌊	Cr	53	9.737	ug/L	0.197	2	153	16697	1	Standard
⌈>	Ge	72		ug/L			14789	14692	1	KED
|	Ni	60	0.550	ug/L	0.044	7	6	385	8	KED
|	Ni	62	0.519	ug/L	0.107	20	4	62	18	KED
|	Cu	63	4.717	ug/L	0.147	3	34	9879	3	KED
|	Cu	65	4.770	ug/L	0.187	3	15	4876	3	KED
|	Zn	66	2.501	ug/L	0.127	5	22	662	6	KED
|	Zn	67	2.428	ug/L	0.260	10	5	109	10	KED
|	As	75	0.083	ug/L	0.021	25	6	17	15	KED
⌊	Se	78	0.118	ug/L	0.263	222	10	12	30	KED
	Y	89		ug/L			222841	231909	1	Standard
	Kr	83		ug/L			76	61	1	Standard
⌈>	In-1	115		ug/L			4607	4703	0	KED
|	Cd	111	0.004	ug/L	0.009	240	1	2	65	KED
⌊	Cd	114	-0.003	ug/L	0.004	131	3	1	108	KED
⌈>	In	115		ug/L			342991	333832	1	Standard
⌊	Ag	107	0.001	ug/L	0.000	30	36	53	9	Standard
⌈>	Tb	159		ug/L			548682	564452	1	Standard
⌊	Pb	208	0.013	ug/L	0.001	7	142	717	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0039-MS1

Sample Dil Factor: 2

DEL

Comments:

Sample Date/Time: Wednesday, January 04, 2023 19:39:18

MISSED TUBE

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			24007	35877	109	Standard
	Cl	**37**		ug/L			2678005	1606218	50	Standard
⌈>	**Sc**	**45**		ug/L			354816	741036	73	Standard
|	**Cr**	**52**	**-0.579**	ug/L	0.136	23	13544	9674	78	Standard
⌊	**Cr**	**53**	**-0.033**	ug/L	0.052	157	153	122	47	Standard
⌈>	**Ge**	**72**		ug/L			14789	17157	82	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.002	35	6	1		KED
|	**Ni**	**62**	**0.017**	ug/L	0.037	226	4	6	62	KED
|	**Cu**	**63**	**-0.006**	ug/L	0.004	66	34	22	55	KED
|	**Cu**	**65**	**-0.010**	ug/L	0.002	22	15	6	96	KED
|	**Zn**	**66**	**-0.059**	ug/L	0.005	8	22	7	66	KED
|	**Zn**	**67**	**0.014**	ug/L	0.113	805	5	3	50	KED
|	**As**	**75**	**-0.013**	ug/L	0.020	151	6	3	7	KED
⌊	**Se**	**78**	**-0.162**	ug/L	0.427	263	10	6	20	KED
	Y	**89**		ug/L			222841	450219	70	Standard
	Kr	**83**		ug/L			76	633	163	Standard
⌈>	**In-1**	**115**		ug/L			4607	10150	40	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.003	141	1	2	43	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.008	1231	3	4	64	KED
⌈>	**In**	**115**		ug/L			342991	752582	70	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.002	250	36	36	39	Standard
⌈>	**Tb**	**159**		ug/L			548682	1217861	70	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.001	78	142	110	41	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0039-MS1
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, January 04, 2023 19:49:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			24007	34317	4	Standard
	Cl	37		ug/L			2678005	2977995	3	Standard
⌈>	Sc	45		ug/L			354816	374623	1	Standard
|	Cr	52	21.376	ug/L	0.368	1	13544	333964	1	Standard
⌊	Cr	53	21.416	ug/L	0.244	1	153	37129	0	Standard
⌈>	Ge	72		ug/L			14789	14993	2	KED
|	Ni	60	12.660	ug/L	0.434	3	6	8903	3	KED
|	Ni	62	12.754	ug/L	0.415	3	4	1471	4	KED
|	Cu	63	16.789	ug/L	0.207	1	34	35783	1	KED
|	Cu	65	16.677	ug/L	0.252	1	15	17365	4	KED
|	Zn	66	39.245	ug/L	0.320	0	22	10267	3	KED
|	Zn	67	35.553	ug/L	1.194	3	5	1571	6	KED
|	As	75	12.963	ug/L	0.434	3	6	1779	1	KED
⌊	Se	78	41.877	ug/L	2.381	5	10	598	3	KED
	Y	89		ug/L			222841	224893	3	Standard
	Kr	83		ug/L			76	73	24	Standard
⌈>	In-1	115		ug/L			4607	4885	0	KED
|	Cd	111	12.109	ug/L	0.442	3	1	2081	2	KED
⌊	Cd	114	11.804	ug/L	0.314	2	3	5154	1	KED
⌈>	In	115		ug/L			342991	334696	0	Standard
⌊	Ag	107	11.288	ug/L	0.276	2	36	164144	1	Standard
⌈>	Tb	159		ug/L			548682	566893	2	Standard
⌊	Pb	208	12.080	ug/L	0.291	2	142	549593	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV6
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 19:58:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			24007	26492	3	Standard
	Cl	**37**		ug/L			2678005	2930391	2	Standard
⌈>	**Sc**	**45**		ug/L			354816	360655	2	Standard
|	**Cr**	**52**	**50.501**	ug/L	1.580	3	13544	740478	0	Standard
⌊	**Cr**	**53**	**50.352**	ug/L	0.395	0	153	83825	2	Standard
⌈>	**Ge**	**72**		ug/L			14789	15058	4	KED
|	**Ni**	**60**	**49.372**	ug/L	0.939	1	6	34850	3	KED
|	**Ni**	**62**	**49.427**	ug/L	2.424	4	4	5707	0	KED
|	**Cu**	**63**	**48.286**	ug/L	1.494	3	34	103230	1	KED
|	**Cu**	**65**	**50.211**	ug/L	0.859	1	15	52443	2	KED
|	**Zn**	**66**	**51.963**	ug/L	1.739	3	22	13635	2	KED
|	**Zn**	**67**	**50.195**	ug/L	1.105	2	5	2223	2	KED
|	**As**	**75**	**50.699**	ug/L	1.823	3	6	6970	0	KED
⌊	**Se**	**78**	**51.315**	ug/L	0.651	1	10	734	3	KED
	Y	**89**		ug/L			222841	229398	4	Standard
	Kr	**83**		ug/L			76	73	15	Standard
⌈>	**In-1**	**115**		ug/L			4607	4930	1	KED
|	**Cd**	**111**	**50.764**	ug/L	1.054	2	1	8802	0	KED
⌊	**Cd**	**114**	**50.419**	ug/L	0.492	0	3	22212	0	KED
⌈>	**In**	**115**		ug/L			342991	350423	1	Standard
⌊	**Ag**	**107**	**47.424**	ug/L	1.529	3	36	721734	1	Standard
⌈>	**Tb**	**159**		ug/L			548682	582937	1	Standard
⌊	**Pb**	**208**	**49.261**	ug/L	1.208	2	142	2304189	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB6
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 20:05:55
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			24007	26833	1	Standard
	Cl	**37**		ug/L			2678005	2927044	1	Standard
⌈>	**Sc**	**45**		ug/L			354816	365227	2	Standard
|	**Cr**	**52**	**0.014**	ug/L	0.033	238	13544	14134	2	Standard
⌊	**Cr**	**53**	**-0.026**	ug/L	0.006	22	153	113	7	Standard
⌈>	**Ge**	**72**		ug/L			14789	15445	3	KED
|	**Ni**	**60**	**0.008**	ug/L	0.011	144	6	12	65	KED
|	**Ni**	**62**	**-0.007**	ug/L	0.015	203	4	3	50	KED
|	**Cu**	**63**	**-0.000**	ug/L	0.002	1171	34	36	10	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.003	106	15	12	31	KED
|	**Zn**	**66**	**-0.011**	ug/L	0.014	129	22	20	21	KED
|	**Zn**	**67**	**0.050**	ug/L	0.082	164	5	7	50	KED
|	**As**	**75**	**-0.013**	ug/L	0.017	128	6	4	45	KED
⌊	**Se**	**78**	**0.104**	ug/L	0.277	267	10	12	28	KED
	Y	**89**		ug/L			222841	224260	3	Standard
	Kr	**83**		ug/L			76	61	17	Standard
⌈>	**In-1**	**115**		ug/L			4607	5057	0	KED
|	**Cd**	**111**	**0.005**	ug/L	0.016	363	1	2	114	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.002	114	3	4	25	KED
⌈>	**In**	**115**		ug/L			342991	365728	2	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.001	20	36	86	12	Standard
⌈>	**Tb**	**159**		ug/L			548682	578794	0	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	34	142	168	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0393-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Wednesday, January 04, 2023 20:10:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			24007	83291	1	Standard
	Cl	**37**		ug/L			2678005	2858553	1	Standard
⌈>	**Sc**	**45**		ug/L			354816	347351	1	Standard
|	**Cr**	**52**	**8.724**	ug/L	0.067	0	13544	134237	1	Standard
⌊	**Cr**	**53**	**8.408**	ug/L	0.148	1	153	13606	1	Standard
⌈>	**Ge**	**72**		ug/L			14789	13579	2	KED
|	**Ni**	**60**	**8.764**	ug/L	0.569	6	6	5586	7	KED
|	**Ni**	**62**	**8.915**	ug/L	0.518	5	4	933	7	KED
|	**Cu**	**63**	**0.316**	ug/L	0.030	9	34	641	10	KED
|	**Cu**	**65**	**0.346**	ug/L	0.013	3	15	340	5	KED
|	**Zn**	**66**	**11.912**	ug/L	0.322	2	22	2837	4	KED
|	**Zn**	**67**	**10.467**	ug/L	1.057	10	5	421	8	KED
|	**As**	**75**	**0.059**	ug/L	0.010	16	6	13	9	KED
⌊	**Se**	**78**	**0.284**	ug/L	0.282	99	10	13	24	KED
	Y	**89**		ug/L			222841	216599	1	Standard
	Kr	**83**		ug/L			76	69	24	Standard
⌈>	**In-1**	**115**		ug/L			4607	4455	2	KED
|	**Cd**	**111**	**0.231**	ug/L	0.015	6	1	37	8	KED
⌊	**Cd**	**114**	**0.207**	ug/L	0.070	33	3	85	30	KED
⌈>	**In**	**115**		ug/L			342991	320318	0	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.001	25	36	106	16	Standard
⌈>	**Tb**	**159**		ug/L			548682	543081	0	Standard
⌊	**Pb**	**208**	**0.023**	ug/L	0.000	0	142	1159	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0441-02
Sample Dil Factor: 5
Comments:
Sample Date/Time: Wednesday, January 04, 2023 20:15:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			24007	30119	2	Standard
	Cl	**37**		ug/L			2678005	4184419	1	Standard
⌈>	**Sc**	**45**		ug/L			354816	356961	1	Standard
|	**Cr**	**52**	**49.800**	ug/L	0.623	1	13544	723250	0	Standard
⌊	**Cr**	**53**	**51.856**	ug/L	0.434	0	153	85451	1	Standard
⌈>	**Ge**	**72**		ug/L			14789	13809	2	KED
|	**Ni**	**60**	**2.126**	ug/L	0.089	4	6	1381	3	KED
|	**Ni**	**62**	**2.161**	ug/L	0.139	6	4	233	4	KED
|	**Cu**	**63**	**0.151**	ug/L	0.014	9	34	328	9	KED
|	**Cu**	**65**	**0.158**	ug/L	0.038	23	15	166	24	KED
|	**Zn**	**66**	**0.462**	ug/L	0.124	26	22	131	20	KED
|	**Zn**	**67**	**0.807**	ug/L	0.033	4	5	37	2	KED
|	**As**	**75**	**11.242**	ug/L	0.318	2	6	1423	3	KED
⌊	**Se**	**78**	**6.264**	ug/L	0.638	10	10	90	8	KED
	Y	**89**		ug/L			222841	210797	1	Standard
	Kr	**83**		ug/L			76	68	2	Standard
⌈>	**In-1**	**115**		ug/L			4607	4311	3	KED
|	**Cd**	**111**	**0.011**	ug/L	0.004	37	1	3	17	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.012	194	3	5	91	KED
⌈>	**In**	**115**		ug/L			342991	320653	1	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	243	36	38	26	Standard
⌈>	**Tb**	**159**		ug/L			548682	543003	0	Standard
⌊	**Pb**	**208**	**0.010**	ug/L	0.001	6	142	583	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0441-04
Sample Dil Factor: 5
Comments:
Sample Date/Time: Wednesday, January 04, 2023 20:19:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			24007	29021	1	Standard
	Cl	37		ug/L			2678005	4450466	7	Standard
⌈>	Sc	45		ug/L			354816	324384	1	Standard
|	Cr	52	9.244	ug/L	0.130	1	13544	132086	0	Standard
⌊	Cr	53	11.577	ug/L	0.143	1	153	17443	0	Standard
⌈>	Ge	72		ug/L			14789	13267	1	KED
|	Ni	60	0.474	ug/L	0.014	2	6	300	3	KED
|	Ni	62	0.597	ug/L	0.121	20	4	64	19	KED
|	Cu	63	0.208	ug/L	0.014	6	34	422	5	KED
|	Cu	65	0.182	ug/L	0.015	8	15	180	7	KED
|	Zn	66	0.298	ug/L	0.075	25	22	88	19	KED
|	Zn	67	0.470	ug/L	0.049	10	5	22	8	KED
|	As	75	30.245	ug/L	0.268	0	6	3669	0	KED
⌊	Se	78	14.145	ug/L	0.514	3	10	185	2	KED
	Y	89		ug/L			222841	204710	2	Standard
	Kr	83		ug/L			76	66	1	Standard
⌈>	In-1	115		ug/L			4607	4332	1	KED
|	Cd	111	0.011	ug/L	0.016	143	1	3	75	KED
⌊	Cd	114	0.008	ug/L	0.003	31	3	5	16	KED
⌈>	In	115		ug/L			342991	298869	1	Standard
⌊	Ag	107	0.000	ug/L	0.001	156	36	38	27	Standard
⌈>	Tb	159		ug/L			548682	521890	0	Standard
⌊	Pb	208	0.013	ug/L	0.001	5	142	690	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0441-08
Sample Dil Factor: 5
Comments:
Sample Date/Time: Wednesday, January 04, 2023 20:24:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			24007	30311	2	Standard
	Cl	**37**		ug/L			2678005	4444347	3	Standard
⌈>	**Sc**	**45**		ug/L			354816	350193	1	Standard
|	**Cr**	**52**	**30.557**	ug/L	0.030	0	13544	440588	1	Standard
⌊	**Cr**	**53**	**32.307**	ug/L	0.427	1	153	52281	0	Standard
⌈>	**Ge**	**72**		ug/L			14789	13638	2	KED
|	**Ni**	**60**	**1.262**	ug/L	0.121	9	6	811	7	KED
|	**Ni**	**62**	**1.389**	ug/L	0.138	9	4	149	7	KED
|	**Cu**	**63**	**0.187**	ug/L	0.015	7	34	394	7	KED
|	**Cu**	**65**	**0.207**	ug/L	0.016	7	15	210	6	KED
|	**Zn**	**66**	**0.427**	ug/L	0.052	12	22	121	10	KED
|	**Zn**	**67**	**0.694**	ug/L	0.161	23	5	32	17	KED
|	**As**	**75**	**11.286**	ug/L	0.097	0	6	1411	2	KED
⌊	**Se**	**78**	**6.378**	ug/L	0.680	10	10	91	7	KED
	Y	**89**		ug/L			222841	219119	0	Standard
	Kr	**83**		ug/L			76	76	5	Standard
⌈>	**In-1**	**115**		ug/L			4607	4365	3	KED
|	**Cd**	**111**	**0.011**	ug/L	0.010	92	1	3	45	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.005	331	3	3	56	KED
⌈>	**In**	**115**		ug/L			342991	322260	0	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	41	36	43	8	Standard
⌈>	**Tb**	**159**		ug/L			548682	548434	0	Standard
⌊	**Pb**	**208**	**0.008**	ug/L	0.001	9	142	480	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0465-05
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, January 04, 2023 20:30:48
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			24007	30462	3	Standard
	Cl	**37**		ug/L			2678005	7408969	1	Standard
⌈>	**Sc**	**45**		ug/L			354816	335693	0	Standard
|	**Cr**	**52**	**2.566**	ug/L	0.123	4	13544	47191	2	Standard
⌊	**Cr**	**53**	**5.601**	ug/L	0.179	3	153	8808	2	Standard
⌈>	**Ge**	**72**		ug/L			14789	11091	3	KED
|	**Ni**	**60**	**0.710**	ug/L	0.025	3	6	373	6	KED
|	**Ni**	**62**	**1.231**	ug/L	0.089	7	4	107	4	KED
|	**Cu**	**63**	**0.303**	ug/L	0.025	8	34	502	5	KED
|	**Cu**	**65**	**0.288**	ug/L	0.029	10	15	232	7	KED
|	**Zn**	**66**	**0.401**	ug/L	0.043	10	22	93	6	KED
|	**Zn**	**67**	**1.035**	ug/L	0.365	35	5	37	30	KED
|	**As**	**75**	**14.789**	ug/L	0.682	4	6	1501	1	KED
⌊	**Se**	**78**	**42.800**	ug/L	1.593	3	10	452	1	KED
	Y	**89**		ug/L			222841	198359	0	Standard
	Kr	**83**		ug/L			76	250	1	Standard
⌈>	**In-1**	**115**		ug/L			4607	3660	1	KED
|	**Cd**	**111**	**0.015**	ug/L	0.011	76	1	3	45	KED
⌊	**Cd**	**114**	**0.014**	ug/L	0.015	108	3	6	70	KED
⌈>	**In**	**115**		ug/L			342991	268996	1	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.000	233	36	30	16	Standard
⌈>	**Tb**	**159**		ug/L			548682	484686	1	Standard
⌊	**Pb**	**208**	**0.008**	ug/L	0.000	3	142	451	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0377-15
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, January 04, 2023 20:35:21
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			24007	34769	1	Standard
	Cl	**37**		ug/L			2678005	2920924	3	Standard
⌈>	**Sc**	**45**		ug/L			354816	388983	4	Standard
|	**Cr**	**52**	**0.949**	ug/L	0.075	7	13544	29554	1	Standard
⌊	**Cr**	**53**	**1.374**	ug/L	0.067	4	153	2628	2	Standard
⌈>	**Ge**	**72**		ug/L			14789	15107	2	KED
|	**Ni**	**60**	**1.890**	ug/L	0.039	2	6	1345	4	KED
|	**Ni**	**62**	**2.043**	ug/L	0.159	7	4	241	6	KED
|	**Cu**	**63**	**2.270**	ug/L	0.041	1	34	4905	0	KED
|	**Cu**	**65**	**2.236**	ug/L	0.095	4	15	2359	5	KED
|	**Zn**	**66**	**14.320**	ug/L	0.285	1	22	3789	2	KED
|	**Zn**	**67**	**14.457**	ug/L	0.539	3	5	646	2	KED
|	**As**	**75**	**4.150**	ug/L	0.121	2	6	578	2	KED
⌊	**Se**	**78**	**0.187**	ug/L	0.240	127	10	13	23	KED
	Y	**89**		ug/L			222841	242907	2	Standard
	Kr	**83**		ug/L			76	88	12	Standard
⌈>	**In-1**	**115**		ug/L			4607	4799	1	KED
|	**Cd**	**111**	**1.133**	ug/L	0.063	5	1	193	7	KED
⌊	**Cd**	**114**	**1.175**	ug/L	0.057	4	3	506	3	KED
⌈>	**In**	**115**		ug/L			342991	356071	1	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.001	18	36	108	11	Standard
⌈>	**Tb**	**159**		ug/L			548682	579174	1	Standard
⌊	**Pb**	**208**	**0.962**	ug/L	0.029	2	142	44835	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0406-01
Sample Dil Factor: 100
Comments:
Sample Date/Time: Wednesday, January 04, 2023 20:40:23
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			24007	49691	2	Standard
	Cl	**37**		ug/L			2678005	2802215	3	Standard
⌈>	**Sc**	**45**		ug/L			354816	370484	1	Standard
|	**Cr**	**52**	**1.341**	ug/L	0.065	4	13544	33982	4	Standard
⌊	**Cr**	**53**	**1.316**	ug/L	0.048	3	153	2406	3	Standard
⌈>	**Ge**	**72**		ug/L			14789	15611	1	KED
|	**Ni**	**60**	**0.237**	ug/L	0.031	13	6	180	12	KED
|	**Ni**	**62**	**0.300**	ug/L	0.077	25	4	40	23	KED
|	**Cu**	**63**	**0.341**	ug/L	0.018	5	34	792	2	KED
|	**Cu**	**65**	**0.392**	ug/L	0.013	3	15	440	2	KED
|	**Zn**	**66**	**54.875**	ug/L	2.160	3	22	14933	2	KED
|	**Zn**	**67**	**50.600**	ug/L	1.572	3	5	2325	3	KED
|	**As**	**75**	**-0.009**	ug/L	0.011	119	6	5	30	KED
⌊	**Se**	**78**	**0.028**	ug/L	0.058	212	10	11	5	KED
	Y	**89**		ug/L			222841	231048	0	Standard
	Kr	**83**		ug/L			76	60	19	Standard
⌈>	**In-1**	**115**		ug/L			4607	5026	1	KED
|	**Cd**	**111**	**0.125**	ug/L	0.012	9	1	23	8	KED
⌊	**Cd**	**114**	**0.165**	ug/L	0.029	17	3	77	15	KED
⌈>	**In**	**115**		ug/L			342991	376052	1	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.001	214	36	34	36	Standard
⌈>	**Tb**	**159**		ug/L			548682	592956	0	Standard
⌊	**Pb**	**208**	**0.026**	ug/L	0.001	2	142	1367	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0325-07
Sample Dil Factor: 10
Comments:
Sample Date/Time: Wednesday, January 04, 2023 20:45:00
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			24007	32015	3	Standard
	Cl	**37**		ug/L			2678005	3006767	4	Standard
⌈>	**Sc**	**45**		ug/L			354816	365150	0	Standard
|	**Cr**	**52**	**0.470**	ug/L	0.029	6	13544	20785	2	Standard
⌊	**Cr**	**53**	**1.063**	ug/L	0.019	1	153	1946	1	Standard
⌈>	**Ge**	**72**		ug/L			14789	15508	0	KED
|	**Ni**	**60**	**0.733**	ug/L	0.026	3	6	539	3	KED
|	**Ni**	**62**	**0.644**	ug/L	0.066	10	4	81	8	KED
|	**Cu**	**63**	**7.664**	ug/L	0.215	2	34	16917	1	KED
|	**Cu**	**65**	**7.691**	ug/L	0.172	2	15	8290	1	KED
|	**Zn**	**66**	**90.014**	ug/L	3.778	4	22	24322	3	KED
|	**Zn**	**67**	**79.941**	ug/L	2.084	2	5	3646	2	KED
|	**As**	**75**	**0.107**	ug/L	0.011	10	6	21	7	KED
⌊	**Se**	**78**	**0.052**	ug/L	0.188	358	10	11	22	KED
	Y	**89**		ug/L			222841	226029	3	Standard
	Kr	**83**		ug/L			76	69	1	Standard
⌈>	**In-1**	**115**		ug/L			4607	4887	0	KED
|	**Cd**	**111**	**0.070**	ug/L	0.025	36	1	13	31	KED
⌊	**Cd**	**114**	**0.081**	ug/L	0.012	15	3	38	14	KED
⌈>	**In**	**115**		ug/L			342991	356982	1	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.000	16	36	83	8	Standard
⌈>	**Tb**	**159**		ug/L			548682	585933	1	Standard
⌊	**Pb**	**208**	**0.553**	ug/L	0.019	3	142	26135	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0371-04
Sample Dil Factor: 10
Comments:
Sample Date/Time: Wednesday, January 04, 2023 20:49:37
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			24007	30919	4	Standard
	Cl	**37**		ug/L			2678005	2797705	2	Standard
⌈>	**Sc**	**45**		ug/L			354816	371148	2	Standard
|	**Cr**	**52**	**0.053**	ug/L	0.018	34	13544	14950	2	Standard
⌊	**Cr**	**53**	**0.064**	ug/L	0.015	23	153	269	8	Standard
⌈>	**Ge**	**72**		ug/L			14789	15250	0	KED
|	**Ni**	**60**	**0.032**	ug/L	0.015	47	6	29	37	KED
|	**Ni**	**62**	**0.200**	ug/L	0.026	13	4	27	10	KED
|	**Cu**	**63**	**55.592**	ug/L	0.217	0	34	120461	0	KED
|	**Cu**	**65**	**56.544**	ug/L	0.731	1	15	59842	2	KED
|	**Zn**	**66**	**0.461**	ug/L	0.048	10	22	145	8	KED
|	**Zn**	**67**	**0.350**	ug/L	0.125	35	5	20	27	KED
|	**As**	**75**	**-0.013**	ug/L	0.003	25	6	4	10	KED
⌊	**Se**	**78**	**0.043**	ug/L	0.247	580	10	11	31	KED
	Y	**89**		ug/L			222841	225899	0	Standard
	Kr	**83**		ug/L			76	68	20	Standard
⌈>	**In-1**	**115**		ug/L			4607	4883	3	KED
|	**Cd**	**111**	**0.016**	ug/L	0.017	104	1	4	61	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.000	3	3	1	1	KED
⌈>	**In**	**115**		ug/L			342991	372336	0	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.000	416	36	38	13	Standard
⌈>	**Tb**	**159**		ug/L			548682	584750	1	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.000	8	142	404	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0371-03
Sample Dil Factor: 50
Comments:
Sample Date/Time: Wednesday, January 04, 2023 20:54:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			24007	29568	4	Standard
	Cl	37		ug/L			2678005	2736038	0	Standard
⌈>	Sc	45		ug/L			354816	351769	1	Standard
|	Cr	52	0.060	ug/L	0.009	14	13544	14265	2	Standard
⌊	Cr	53	0.014	ug/L	0.009	60	153	175	9	Standard
⌈>	Ge	72		ug/L			14789	15476	2	KED
|	Ni	60	0.019	ug/L	0.005	28	6	20	19	KED
|	Ni	62	0.117	ug/L	0.080	68	4	18	48	KED
|	Cu	63	37.518	ug/L	1.799	4	34	82458	2	KED
|	Cu	65	39.090	ug/L	1.050	2	15	41969	1	KED
|	Zn	66	0.241	ug/L	0.045	18	22	88	14	KED
|	Zn	67	0.133	ug/L	0.108	80	5	11	44	KED
|	As	75	-0.014	ug/L	0.004	27	6	4	11	KED
⌊	Se	78	-0.101	ug/L	0.263	259	10	9	39	KED
	Y	89		ug/L			222841	220704	0	Standard
	Kr	83		ug/L			76	78	2	Standard
⌈>	In-1	115		ug/L			4607	5145	1	KED
|	Cd	111	-0.003	ug/L	0.003	110	1	1	43	KED
⌊	Cd	114	-0.002	ug/L	0.003	113	3	2	46	KED
⌈>	In	115		ug/L			342991	364882	1	Standard
⌊	Ag	107	-0.000	ug/L	0.000	62	36	31	15	Standard
⌈>	Tb	159		ug/L			548682	567146	1	Standard
⌊	Pb	208	0.003	ug/L	0.000	15	142	276	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV7
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 21:03:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			24007	25586	4	Standard
	Cl	**37**		ug/L			2678005	2954710	2	Standard
⌈>	**Sc**	**45**		ug/L			354816	361497	1	Standard
|	**Cr**	**52**	**50.532**	ug/L	1.175	2	13544	742950	1	Standard
⌊	**Cr**	**53**	**50.708**	ug/L	0.861	1	153	84613	0	Standard
⌈>	**Ge**	**72**		ug/L			14789	15430	0	KED
|	**Ni**	**60**	**47.932**	ug/L	0.590	1	6	34681	1	KED
|	**Ni**	**62**	**47.794**	ug/L	0.982	2	4	5663	2	KED
|	**Cu**	**63**	**47.192**	ug/L	1.560	3	34	103470	3	KED
|	**Cu**	**65**	**48.031**	ug/L	0.802	1	15	51434	2	KED
|	**Zn**	**66**	**49.253**	ug/L	0.533	1	22	13255	1	KED
|	**Zn**	**67**	**49.717**	ug/L	1.607	3	5	2258	3	KED
|	**As**	**75**	**49.942**	ug/L	0.563	1	6	7043	1	KED
⌊	**Se**	**78**	**51.960**	ug/L	0.983	1	10	762	1	KED
	Y	**89**		ug/L			222841	230185	1	Standard
	Kr	**83**		ug/L			76	79	3	Standard
⌈>	**In-1**	**115**		ug/L			4607	4931	1	KED
|	**Cd**	**111**	**49.452**	ug/L	0.759	1	1	8577	1	KED
⌊	**Cd**	**114**	**48.779**	ug/L	0.622	1	3	21494	0	KED
⌈>	**In**	**115**		ug/L			342991	365756	1	Standard
⌊	**Ag**	**107**	**43.939**	ug/L	1.017	2	36	698076	1	Standard
⌈>	**Tb**	**159**		ug/L			548682	586541	1	Standard
⌊	**Pb**	**208**	**48.204**	ug/L	0.568	1	142	2269127	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB7
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 21:10:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			24007	25471	3	Standard
	Cl	**37**		ug/L			2678005	2743881	3	Standard
⌈>	**Sc**	**45**		ug/L			354816	352353	0	Standard
|	**Cr**	**52**	**0.062**	ug/L	0.005	8	13544	14322	0	Standard
⌊	**Cr**	**53**	**-0.008**	ug/L	0.010	114	153	139	10	Standard
⌈>	**Ge**	**72**		ug/L			14789	15698	2	KED
|	**Ni**	**60**	**0.002**	ug/L	0.006	259	6	8	48	KED
|	**Ni**	**62**	**-0.013**	ug/L	0.017	134	4	3	69	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.004	80	34	27	31	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.001	36	15	13	7	KED
|	**Zn**	**66**	**-0.035**	ug/L	0.004	12	22	13	7	KED
|	**Zn**	**67**	**0.035**	ug/L	0.051	145	5	6	31	KED
|	**As**	**75**	**-0.013**	ug/L	0.004	33	6	4	14	KED
⌊	**Se**	**78**	**-0.083**	ug/L	0.228	273	10	10	31	KED
	Y	**89**		ug/L			222841	220259	2	Standard
	Kr	**83**		ug/L			76	64	10	Standard
⌈>	**In-1**	**115**		ug/L			4607	4949	0	KED
|	**Cd**	**111**	**0.003**	ug/L	0.013	423	1	2	98	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	471	3	3	51	KED
⌈>	**In**	**115**		ug/L			342991	360060	1	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.001	49	36	80	27	Standard
⌈>	**Tb**	**159**		ug/L			548682	579170	2	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	234	142	143	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 21:15:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				25570	3	Standard
	Cl	**37**		ug/L				2742961	0	Standard
⎡>	**Sc**	**45**		ug/L				348480	1	Standard
⎢	**Cr**	**52**		ug/L				14114	3	Standard
⎣	**Cr**	**53**		ug/L				122	9	Standard
⎡>	**Ge**	**72**		ug/L				15220	0	KED
⎢	**Ni**	**60**		ug/L				7	25	KED
⎢	**Ni**	**62**		ug/L				1		KED
⎢	**Cu**	**63**		ug/L				27	25	KED
⎢	**Cu**	**65**		ug/L				11	66	KED
⎢	**Zn**	**66**		ug/L				19	34	KED
⎢	**Zn**	**67**		ug/L				10	10	KED
⎢	**As**	**75**		ug/L				5	36	KED
⎣	**Se**	**78**		ug/L				8	6	KED
	Y	**89**		ug/L				218224	4	Standard
	Kr	**83**		ug/L				58	23	Standard
⎡>	**In-1**	**115**		ug/L				4837	0	KED
⎢	**Cd**	**111**		ug/L				1	124	KED
⎣	**Cd**	**114**		ug/L				3	52	KED
⎡>	**In**	**115**		ug/L				357855	1	Standard
⎣	**Ag**	**107**		ug/L				44	21	Standard
⎡>	**Tb**	**159**		ug/L				578710	0	Standard
⎣	**Pb**	**208**		ug/L				110	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV8
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 21:19:48
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25570	26454	3	Standard
	Cl	**37**		ug/L			2742961	2910668	5	Standard
⌈>	**Sc**	**45**		ug/L			348480	359112	4	Standard
|	**Cr**	**52**	**50.531**	ug/L	1.344	2	14114	738401	2	Standard
⌊	**Cr**	**53**	**51.150**	ug/L	1.265	2	122	84704	2	Standard
⌈>	**Ge**	**72**		ug/L			15220	15167	1	KED
|	**Ni**	**60**	**47.982**	ug/L	0.758	1	7	34123	1	KED
|	**Ni**	**62**	**47.719**	ug/L	0.495	1	1	5556	2	KED
|	**Cu**	**63**	**46.553**	ug/L	1.415	3	27	100293	1	KED
|	**Cu**	**65**	**48.311**	ug/L	1.306	2	11	50836	2	KED
|	**Zn**	**66**	**50.225**	ug/L	0.955	1	19	13280	1	KED
|	**Zn**	**67**	**50.447**	ug/L	0.787	1	10	2257	2	KED
|	**As**	**75**	**50.994**	ug/L	0.251	0	5	7067	1	KED
⌊	**Se**	**78**	**53.110**	ug/L	0.818	1	8	763	2	KED
	Y	**89**		ug/L			218224	224608	2	Standard
	Kr	**83**		ug/L			58	77	13	Standard
⌈>	**In-1**	**115**		ug/L			4837	4909	1	KED
|	**Cd**	**111**	**49.539**	ug/L	0.271	0	1	8554	2	KED
⌊	**Cd**	**114**	**49.936**	ug/L	0.654	1	3	21904	0	KED
⌈>	**In**	**115**		ug/L			357855	365946	2	Standard
⌊	**Ag**	**107**	**42.997**	ug/L	1.516	3	44	683322	2	Standard
⌈>	**Tb**	**159**		ug/L			578710	592439	2	Standard
⌊	**Pb**	**208**	**46.990**	ug/L	0.945	2	110	2233698	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB8
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 21:27:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25570	25637	3	Standard
	Cl	**37**		ug/L			2742961	2788224	2	Standard
⌈>	**Sc**	**45**		ug/L			348480	360083	1	Standard
|	**Cr**	**52**	**-0.046**	ug/L	0.011	22	14114	13919	2	Standard
⌊	**Cr**	**53**	**-0.001**	ug/L	0.011	1109	122	125	15	Standard
⌈>	**Ge**	**72**		ug/L			15220	15357	0	KED
|	**Ni**	**60**	**0.003**	ug/L	0.004	119	7	10	28	KED
|	**Ni**	**62**	**-0.011**	ug/L	0.009	85	1	0	173	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.003	212	27	25	24	KED
|	**Cu**	**65**	**0.002**	ug/L	0.005	198	11	13	34	KED
|	**Zn**	**66**	**0.037**	ug/L	0.037	98	19	29	33	KED
|	**Zn**	**67**	**-0.115**	ug/L	0.049	43	10	5	43	KED
|	**As**	**75**	**0.008**	ug/L	0.005	67	5	6	11	KED
⌊	**Se**	**78**	**0.088**	ug/L	0.109	123	8	10	15	KED
	Y	**89**		ug/L			218224	214066	0	Standard
	Kr	**83**		ug/L			58	69	10	Standard
⌈>	**In-1**	**115**		ug/L			4837	4859	1	KED
|	**Cd**	**111**	**0.009**	ug/L	0.007	71	1	3	34	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.003	89	3	2	43	KED
⌈>	**In**	**115**		ug/L			357855	367894	0	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.002	105	44	68	34	Standard
⌈>	**Tb**	**159**		ug/L			578710	580667	2	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	25	110	132	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKK0543-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, January 04, 2023 21:31:48
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25570	36099	3	Standard
	Cl	37		ug/L			2742961	2786285	2	Standard
⌈>	Sc	45		ug/L			348480	374288	3	Standard
|	Cr	52	0.039	ug/L	0.017	44	14114	15746	3	Standard
⌊	Cr	53	0.003	ug/L	0.004	139	122	136	3	Standard
⌈>	Ge	72		ug/L			15220	15917	2	KED
|	Ni	60	0.013	ug/L	0.014	107	7	17	59	KED
|	Ni	62	0.051	ug/L	0.017	32	1	8	26	KED
|	Cu	63	0.044	ug/L	0.007	14	27	129	14	KED
|	Cu	65	0.054	ug/L	0.014	25	11	71	22	KED
|	Zn	66	0.474	ug/L	0.053	11	19	151	7	KED
|	Zn	67	0.342	ug/L	0.067	19	10	26	14	KED
|	As	75	-0.003	ug/L	0.014	554	5	5	36	KED
⌊	Se	78	0.286	ug/L	0.302	105	8	13	32	KED
	Y	89		ug/L			218224	218865	0	Standard
	Kr	83		ug/L			58	62	15	Standard
⌈>	In-1	115		ug/L			4837	5125	0	KED
|	Cd	111	0.007	ug/L	0.009	139	1	2	57	KED
⌊	Cd	114	-0.002	ug/L	0.008	431	3	3	126	KED
⌈>	In	115		ug/L			357855	381923	1	Standard
⌊	Ag	107	0.002	ug/L	0.000	8	44	87	4	Standard
⌈>	Tb	159		ug/L			578710	596417	2	Standard
⌊	Pb	208	0.006	ug/L	0.001	19	110	391	15	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKK0543-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, January 04, 2023 21:36:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25570	35978	2	Standard
	Cl	37		ug/L			2742961	2822082	1	Standard
⌈>	Sc	45		ug/L			348480	379875	2	Standard
|	Cr	52	26.032	ug/L	0.457	1	14114	410081	1	Standard
⌊	Cr	53	26.183	ug/L	0.546	2	122	45971	3	Standard
⌈>	Ge	72		ug/L			15220	15958	3	KED
|	Ni	60	25.526	ug/L	1.373	5	7	19085	2	KED
|	Ni	62	25.185	ug/L	0.811	3	1	3084	1	KED
|	Cu	63	25.602	ug/L	1.516	5	27	57994	2	KED
|	Cu	65	26.026	ug/L	0.814	3	11	28808	1	KED
|	Zn	66	80.019	ug/L	1.271	1	19	22245	1	KED
|	Zn	67	76.483	ug/L	2.513	3	10	3592	0	KED
|	As	75	25.779	ug/L	0.638	2	5	3760	1	KED
⌊	Se	78	83.923	ug/L	2.209	2	8	1263	1	KED
	Y	89		ug/L			218224	224108	1	Standard
	Kr	83		ug/L			58	71	6	Standard
⌈>	In-1	115		ug/L			4837	5162	3	KED
|	Cd	111	25.501	ug/L	1.106	4	1	4628	2	KED
⌊	Cd	114	25.521	ug/L	1.059	4	3	11768	2	KED
⌈>	In	115		ug/L			357855	377091	1	Standard
⌊	Ag	107	22.777	ug/L	0.360	1	44	373138	0	Standard
⌈>	Tb	159		ug/L			578710	603565	1	Standard
⌊	Pb	208	24.902	ug/L	0.461	1	110	1206140	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKK0543-SRL1
Sample Dil Factor: 100
Comments:
Sample Date/Time: Wednesday, January 04, 2023 21:41:03
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25570	30877	1	Standard
	Cl	**37**		ug/L			2742961	2701563	2	Standard
⌈>	**Sc**	**45**		ug/L			348480	401734	1	Standard
|	**Cr**	**52**	**3.368**	ug/L	0.129	3	14114	70275	2	Standard
⌊	**Cr**	**53**	**3.469**	ug/L	0.025	0	122	6563	2	Standard
⌈>	**Ge**	**72**		ug/L			15220	16282	2	KED
|	**Ni**	**60**	**2.893**	ug/L	0.177	6	7	2214	3	KED
|	**Ni**	**62**	**2.963**	ug/L	0.100	3	1	372	1	KED
|	**Cu**	**63**	**3.644**	ug/L	0.109	2	27	8459	4	KED
|	**Cu**	**65**	**3.640**	ug/L	0.108	2	11	4122	1	KED
|	**Zn**	**66**	**8.705**	ug/L	0.227	2	19	2487	0	KED
|	**Zn**	**67**	**9.978**	ug/L	1.315	13	10	486	10	KED
|	**As**	**75**	**0.445**	ug/L	0.015	3	5	71	1	KED
⌊	**Se**	**78**	**0.684**	ug/L	0.228	33	8	19	19	KED
	Y	**89**		ug/L			218224	286219	1	Standard
	Kr	**83**		ug/L			58	83	5	Standard
⌈>	**In-1**	**115**		ug/L			4837	5200	4	KED
|	**Cd**	**111**	**0.016**	ug/L	0.022	143	1	4	86	KED
⌊	**Cd**	**114**	**0.013**	ug/L	0.008	61	3	10	40	KED
⌈>	**In**	**115**		ug/L			357855	378535	1	Standard
⌊	**Ag**	**107**	**0.009**	ug/L	0.001	9	44	200	6	Standard
⌈>	**Tb**	**159**		ug/L			578710	611705	0	Standard
⌊	**Pb**	**208**	**0.675**	ug/L	0.022	3	110	33242	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-40
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, January 04, 2023 21:45:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25570	34618	5	Standard
	Cl	37		ug/L			2742961	2801195	3	Standard
>	Sc	45		ug/L			348480	509746	1	Standard
	Cr	52	13.048	ug/L	0.283	2	14114	286130	1	Standard
	Cr	53	13.462	ug/L	0.126	0	122	31799	1	Standard
>	Ge	72		ug/L			15220	16511	1	KED
	Ni	60	14.234	ug/L	0.496	3	7	11023	2	KED
	Ni	62	14.771	ug/L	0.386	2	1	1873	1	KED
	Cu	63	17.067	ug/L	0.301	1	27	40053	0	KED
	Cu	65	17.585	ug/L	0.380	2	11	20151	0	KED
	Zn	66	38.385	ug/L	0.463	1	19	11055	1	KED
	Zn	67	45.395	ug/L	1.080	2	10	2212	2	KED
	As	75	1.981	ug/L	0.064	3	5	304	4	KED
	Se	78	2.248	ug/L	0.168	7	8	44	4	KED
	Y	89		ug/L			218224	551524	1	Standard
	Kr	83		ug/L			58	176	10	Standard
>	In-1	115		ug/L			4837	5227	1	KED
	Cd	111	0.065	ug/L	0.012	18	1	13	14	KED
	Cd	114	0.062	ug/L	0.016	26	3	32	21	KED
>	In	115		ug/L			357855	377126	1	Standard
	Ag	107	0.041	ug/L	0.001	3	44	719	1	Standard
>	Tb	159		ug/L			578710	633605	0	Standard
	Pb	208	3.137	ug/L	0.029	0	110	159631	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKK0543-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, January 04, 2023 21:50:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			25570	37681	1	Standard
Cl	37		ug/L			2742961	2800147	3	Standard
> Sc	45		ug/L			348480	517748	0	Standard
Cr	52	12.997	ug/L	0.246	1	14114	289638	2	Standard
Cr	53	13.791	ug/L	0.336	2	122	33088	2	Standard
> Ge	72		ug/L			15220	16117	0	KED
Ni	60	14.459	ug/L	0.170	1	7	10934	1	KED
Ni	62	14.615	ug/L	0.235	1	1	1809	2	KED
Cu	63	17.724	ug/L	0.339	1	27	40605	1	KED
Cu	65	17.429	ug/L	0.391	2	11	19499	1	KED
Zn	66	37.951	ug/L	0.828	2	19	10669	1	KED
Zn	67	45.849	ug/L	1.172	2	10	2181	2	KED
As	75	1.936	ug/L	0.073	3	5	290	4	KED
Se	78	2.418	ug/L	0.252	10	8	45	8	KED
Y	89		ug/L			218224	554595	1	Standard
Kr	83		ug/L			58	182	17	Standard
> In-1	115		ug/L			4837	5001	1	KED
Cd	111	0.075	ug/L	0.017	23	1	14	22	KED
Cd	114	0.054	ug/L	0.029	53	3	27	44	KED
> In	115		ug/L			357855	380188	0	Standard
Ag	107	0.042	ug/L	0.002	4	44	734	3	Standard
> Tb	159		ug/L			578710	639252	2	Standard
Pb	208	3.182	ug/L	0.105	3	110	163348	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKK0543-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, January 04, 2023 21:54:55
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25570	38169	2	Standard
	Cl	37		ug/L			2742961	2935504	3	Standard
>	Sc	45		ug/L			348480	527819	2	Standard
	Cr	52	31.396	ug/L	0.316	1	14114	682884	1	Standard
	Cr	53	32.106	ug/L	0.766	2	122	78283	3	Standard
>	Ge	72		ug/L			15220	16551	3	KED
	Ni	60	38.040	ug/L	1.549	4	7	29498	0	KED
	Ni	62	38.113	ug/L	1.702	4	1	4840	4	KED
	Cu	63	41.282	ug/L	0.422	1	27	97078	3	KED
	Cu	65	42.231	ug/L	0.890	2	11	48479	1	KED
	Zn	66	113.950	ug/L	1.323	1	19	32857	3	KED
	Zn	67	118.698	ug/L	2.317	1	10	5778	1	KED
	As	75	23.497	ug/L	0.267	1	5	3556	2	KED
	Se	78	75.498	ug/L	2.354	3	8	1179	2	KED
	Y	89		ug/L			218224	559111	3	Standard
	Kr	83		ug/L			58	191	11	Standard
>	In-1	115		ug/L			4837	5284	3	KED
	Cd	111	23.813	ug/L	0.425	1	1	4426	2	KED
	Cd	114	23.530	ug/L	1.200	5	3	11102	2	KED
>	In	115		ug/L			357855	377109	2	Standard
	Ag	107	19.636	ug/L	0.335	1	44	321680	1	Standard
>	Tb	159		ug/L			578710	645063	1	Standard
	Pb	208	25.407	ug/L	0.604	2	110	1315206	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKK0543-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, January 04, 2023 21:59:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			25570	39376	5	Standard
Cl	37		ug/L			2742961	2915322	0	Standard
Sc	45		ug/L			348480	534806	2	Standard
Cr	52	32.396	ug/L	1.270	3	14114	713088	3	Standard
Cr	53	33.192	ug/L	0.333	1	122	81974	1	Standard
Ge	72		ug/L			15220	16317	2	KED
Ni	60	39.143	ug/L	1.191	3	7	29941	2	KED
Ni	62	38.454	ug/L	2.037	5	1	4812	2	KED
Cu	63	41.590	ug/L	1.135	2	27	96380	0	KED
Cu	65	42.483	ug/L	1.135	2	11	48105	4	KED
Zn	66	114.535	ug/L	5.007	4	19	32537	2	KED
Zn	67	115.893	ug/L	0.546	0	10	5564	2	KED
As	75	24.298	ug/L	0.803	3	5	3624	2	KED
Se	78	76.914	ug/L	2.354	3	8	1184	1	KED
Y	89		ug/L			218224	564126	0	Standard
Kr	83		ug/L			58	201	12	Standard
In-1	115		ug/L			4837	5071	2	KED
Cd	111	25.531	ug/L	0.426	1	1	4553	1	KED
Cd	114	24.690	ug/L	0.401	1	3	11188	1	KED
In	115		ug/L			357855	382754	1	Standard
Ag	107	20.396	ug/L	0.105	0	44	339180	0	Standard
Tb	159		ug/L			578710	632358	1	Standard
Pb	208	26.600	ug/L	0.144	0	110	1350057	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKK0543-PS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, January 04, 2023 22:04:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25570	38824	4	Standard
	Cl	**37**		ug/L			2742961	2874541	2	Standard
>	**Sc**	**45**		ug/L			348480	525015	1	Standard
	Cr	**52**	**29.937**	ug/L	0.926	3	14114	648818	3	Standard
	Cr	**53**	**31.173**	ug/L	0.414	1	122	75602	1	Standard
>	**Ge**	**72**		ug/L			15220	16507	2	KED
	Ni	**60**	**37.860**	ug/L	0.781	2	7	29311	3	KED
	Ni	**62**	**37.383**	ug/L	1.389	3	1	4734	1	KED
	Cu	**63**	**40.429**	ug/L	0.348	0	27	94819	1	KED
	Cu	**65**	**41.072**	ug/L	0.430	1	11	47052	2	KED
	Zn	**66**	**113.354**	ug/L	3.059	2	19	32588	1	KED
	Zn	**67**	**115.556**	ug/L	1.993	1	10	5613	3	KED
	As	**75**	**26.885**	ug/L	0.357	1	5	4057	1	KED
	Se	**78**	**83.088**	ug/L	2.538	3	8	1294	0	KED
	Y	**89**		ug/L			218224	557535	1	Standard
	Kr	**83**		ug/L			58	173	9	Standard
>	**In-1**	**115**		ug/L			4837	5330	3	KED
	Cd	**111**	**23.287**	ug/L	0.714	3	1	4364	1	KED
	Cd	**114**	**23.687**	ug/L	0.459	1	3	11281	1	KED
>	**In**	**115**		ug/L			357855	387250	2	Standard
	Ag	**107**	**19.603**	ug/L	0.155	0	44	329810	1	Standard
>	**Tb**	**159**		ug/L			578710	644057	0	Standard
	Pb	**208**	**23.660**	ug/L	0.472	1	110	1222975	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKK0543-SRM1
Sample Dil Factor: 50
Comments:
Sample Date/Time: Wednesday, January 04, 2023 22:08:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25570	35673	3	Standard
	Cl	37		ug/L			2742961	2854172	1	Standard
⌈>	Sc	45		ug/L			348480	406175	1	Standard
|	Cr	52	96.507	ug/L	1.712	1	14114	1581196	1	Standard
⌊	Cr	53	98.374	ug/L	1.656	1	122	184238	1	Standard
⌈>	Ge	72		ug/L			15220	17163	3	KED
|	Ni	60	139.448	ug/L	5.381	3	7	112130	0	KED
|	Ni	62	136.461	ug/L	7.665	5	1	17954	2	KED
|	Cu	63	54.384	ug/L	0.859	1	27	132583	1	KED
|	Cu	65	56.079	ug/L	1.358	2	11	66757	1	KED
|	Zn	66	62.748	ug/L	2.511	4	19	18758	1	KED
|	Zn	67	74.929	ug/L	1.771	2	10	3787	2	KED
|	As	75	34.056	ug/L	0.502	1	5	5342	2	KED
⌊	Se	78	57.901	ug/L	1.424	2	8	940	1	KED
	Y	89		ug/L			218224	331270	1	Standard
	Kr	83		ug/L			58	86	12	Standard
⌈>	In-1	115		ug/L			4837	5239	1	KED
|	Cd	111	66.844	ug/L	0.902	1	1	12317	0	KED
⌊	Cd	114	66.588	ug/L	0.237	0	3	31179	1	KED
⌈>	In	115		ug/L			357855	381810	0	Standard
⌊	Ag	107	18.529	ug/L	0.204	1	44	307377	0	Standard
⌈>	Tb	159		ug/L			578710	626626	0	Standard
⌊	Pb	208	95.371	ug/L	0.465	0	110	4796467	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL7
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 22:13:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25570	28243	3	Standard
	Cl	**37**		ug/L			2742961	2787348	1	Standard
⌈>	**Sc**	**45**		ug/L			348480	365883	2	Standard
|	**Cr**	**52**	**-0.018**	ug/L	0.016	84	14114	14550	3	Standard
⌊	**Cr**	**53**	**-0.011**	ug/L	0.005	43	122	110	4	Standard
⌈>	**Ge**	**72**		ug/L			15220	15968	2	KED
|	**Ni**	**60**	**0.001**	ug/L	0.001	105	7	8	12	KED
|	**Ni**	**62**	**-0.006**	ug/L	0.018	290	1	1	173	KED
|	**Cu**	**63**	**0.050**	ug/L	0.009	17	27	143	12	KED
|	**Cu**	**65**	**0.059**	ug/L	0.007	12	11	77	12	KED
|	**Zn**	**66**	**-0.022**	ug/L	0.013	61	19	13	28	KED
|	**Zn**	**67**	**-0.133**	ug/L	0.046	34	10	4	49	KED
|	**As**	**75**	**0.003**	ug/L	0.003	97	5	6	4	KED
⌊	**Se**	**78**	**0.082**	ug/L	0.148	180	8	10	19	KED
	Y	**89**		ug/L			218224	221815	1	Standard
	Kr	**83**		ug/L			58	65	4	Standard
⌈>	**In-1**	**115**		ug/L			4837	5259	0	KED
|	**Cd**	**111**	**0.003**	ug/L	0.011	394	1	2	89	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.000	16	3	3	2	KED
⌈>	**In**	**115**		ug/L			357855	378539	1	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.001	37	44	88	16	Standard
⌈>	**Tb**	**159**		ug/L			578710	595862	1	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	4	110	315	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV9
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 22:17:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25570	27858	3	Standard
	Cl	**37**		ug/L			2742961	3068147	1	Standard
⌈>	**Sc**	**45**		ug/L			348480	375540	1	Standard
|	**Cr**	**52**	**50.429**	ug/L	0.052	0	14114	771274	1	Standard
⌊	**Cr**	**53**	**52.187**	ug/L	1.163	2	122	90441	2	Standard
⌈>	**Ge**	**72**		ug/L			15220	16207	1	KED
|	**Ni**	**60**	**46.562**	ug/L	0.206	0	7	35387	1	KED
|	**Ni**	**62**	**46.572**	ug/L	0.856	1	1	5793	1	KED
|	**Cu**	**63**	**46.848**	ug/L	0.196	0	27	107880	1	KED
|	**Cu**	**65**	**47.505**	ug/L	1.319	2	11	53410	1	KED
|	**Zn**	**66**	**48.373**	ug/L	1.418	2	19	13675	4	KED
|	**Zn**	**67**	**49.811**	ug/L	0.317	0	10	2381	1	KED
|	**As**	**75**	**50.237**	ug/L	0.310	0	5	7440	1	KED
⌊	**Se**	**78**	**53.785**	ug/L	1.341	2	8	826	2	KED
	Y	**89**		ug/L			218224	229841	4	Standard
	Kr	**83**		ug/L			58	78	14	Standard
⌈>	**In-1**	**115**		ug/L			4837	5118	2	KED
|	**Cd**	**111**	**48.831**	ug/L	1.804	3	1	8786	1	KED
⌊	**Cd**	**114**	**48.753**	ug/L	2.037	4	3	22285	1	KED
⌈>	**In**	**115**		ug/L			357855	378259	2	Standard
⌊	**Ag**	**107**	**42.766**	ug/L	0.784	1	44	702778	2	Standard
⌈>	**Tb**	**159**		ug/L			578710	614575	1	Standard
⌊	**Pb**	**208**	**46.169**	ug/L	0.951	2	110	2276886	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB9
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 22:25:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25570	27954	1	Standard
	Cl	**37**		ug/L			2742961	2858022	1	Standard
⎡>	**Sc**	**45**		ug/L			348480	369250	3	Standard
⎢	**Cr**	**52**	**-0.032**	ug/L	0.026	79	14114	14472	1	Standard
⎣	**Cr**	**53**	**-0.011**	ug/L	0.008	75	122	112	15	Standard
⎡>	**Ge**	**72**		ug/L			15220	16680	2	KED
⎢	**Ni**	**60**	**-0.001**	ug/L	0.000	23	7	7	0	KED
⎢	**Ni**	**62**	**-0.011**	ug/L	0.009	77	1	0	173	KED
⎢	**Cu**	**63**	**0.001**	ug/L	0.003	522	27	31	18	KED
⎢	**Cu**	**65**	**-0.001**	ug/L	0.003	313	11	11	28	KED
⎢	**Zn**	**66**	**0.016**	ug/L	0.011	71	19	25	11	KED
⎢	**Zn**	**67**	**-0.035**	ug/L	0.129	371	10	9	69	KED
⎢	**As**	**75**	**0.002**	ug/L	0.013	777	5	6	33	KED
⎣	**Se**	**78**	**0.141**	ug/L	0.185	131	8	11	26	KED
	Y	**89**		ug/L			218224	219763	1	Standard
	Kr	**83**		ug/L			58	69	8	Standard
⎡>	**In-1**	**115**		ug/L			4837	5182	0	KED
⎢	**Cd**	**111**	**0.003**	ug/L	0.008	279	1	2	65	KED
⎣	**Cd**	**114**	**-0.002**	ug/L	0.006	333	3	3	96	KED
⎡>	**In**	**115**		ug/L			357855	378226	0	Standard
⎣	**Ag**	**107**	**0.003**	ug/L	0.001	22	44	92	10	Standard
⎡>	**Tb**	**159**		ug/L			578710	596273	1	Standard
⎣	**Pb**	**208**	**0.001**	ug/L	0.000	35	110	169	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKK0557-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, January 04, 2023 22:29:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25570	38365	4	Standard
	Cl	37		ug/L			2742961	2863394	5	Standard
⌈>	Sc	45		ug/L			348480	376357	2	Standard
|	Cr	52	0.047	ug/L	0.029	63	14114	15936	1	Standard
⌊	Cr	53	-0.005	ug/L	0.009	185	122	123	14	Standard
⌈>	Ge	72		ug/L			15220	16628	2	KED
|	Ni	60	0.007	ug/L	0.008	106	7	13	41	KED
|	Ni	62	0.044	ug/L	0.046	105	1	7	75	KED
|	Cu	63	0.014	ug/L	0.004	30	27	62	13	KED
|	Cu	65	0.017	ug/L	0.008	50	11	31	28	KED
|	Zn	66	0.493	ug/L	0.086	17	19	163	13	KED
|	Zn	67	0.267	ug/L	0.039	14	10	24	9	KED
|	As	75	0.001	ug/L	0.012	1701	5	6	32	KED
⌊	Se	78	0.104	ug/L	0.182	175	8	11	26	KED
	Y	89		ug/L			218224	221206	3	Standard
	Kr	83		ug/L			58	66	4	Standard
⌈>	In-1	115		ug/L			4837	5204	0	KED
|	Cd	111	0.006	ug/L	0.005	83	1	2	33	KED
⌊	Cd	114	-0.006	ug/L	0.002	37	3	1	108	KED
⌈>	In	115		ug/L			357855	383588	2	Standard
⌊	Ag	107	0.002	ug/L	0.001	40	44	83	14	Standard
⌈>	Tb	159		ug/L			578710	606370	0	Standard
⌊	Pb	208	0.008	ug/L	0.000	4	110	502	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKK0557-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, January 04, 2023 22:34:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25570	36823	2	Standard
	Cl	37		ug/L			2742961	2822800	2	Standard
⌈>	Sc	45		ug/L			348480	373027	2	Standard
|	Cr	52	27.370	ug/L	0.336	1	14114	422666	1	Standard
⌊	Cr	53	27.820	ug/L	0.535	1	122	47938	0	Standard
⌈>	Ge	72		ug/L			15220	16183	1	KED
|	Ni	60	24.130	ug/L	0.608	2	7	18311	1	KED
|	Ni	62	25.546	ug/L	0.111	0	1	3174	1	KED
|	Cu	63	24.734	ug/L	0.436	1	27	56890	2	KED
|	Cu	65	25.343	ug/L	0.333	1	11	28465	2	KED
|	Zn	66	77.909	ug/L	1.893	2	19	21966	0	KED
|	Zn	67	72.846	ug/L	1.387	1	10	3473	2	KED
|	As	75	25.050	ug/L	0.477	1	5	3706	0	KED
⌊	Se	78	82.555	ug/L	0.320	0	8	1261	1	KED
	Y	89		ug/L			218224	229994	1	Standard
	Kr	83		ug/L			58	77	7	Standard
⌈>	In-1	115		ug/L			4837	5117	4	KED
|	Cd	111	25.268	ug/L	1.072	4	1	4544	0	KED
⌊	Cd	114	25.151	ug/L	0.458	1	3	11498	2	KED
⌈>	In	115		ug/L			357855	384343	0	Standard
⌊	Ag	107	22.848	ug/L	0.243	1	44	381556	1	Standard
⌈>	Tb	159		ug/L			578710	611900	1	Standard
⌊	Pb	208	24.906	ug/L	0.610	2	110	1223002	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKK0557-SRL1
Sample Dil Factor: 100
Comments:
Sample Date/Time: Wednesday, January 04, 2023 22:39:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25570	34850	3	Standard
	Cl	**37**		ug/L			2742961	2741669	1	Standard
⌈>	**Sc**	**45**		ug/L			348480	418706	2	Standard
|	**Cr**	**52**	**3.764**	ug/L	0.163	4	14114	79864	3	Standard
⌊	**Cr**	**53**	**3.757**	ug/L	0.078	2	122	7395	1	Standard
⌈>	**Ge**	**72**		ug/L			15220	16536	2	KED
|	**Ni**	**60**	**3.548**	ug/L	0.174	4	7	2757	2	KED
|	**Ni**	**62**	**3.438**	ug/L	0.169	4	1	438	7	KED
|	**Cu**	**63**	**4.276**	ug/L	0.026	0	27	10073	2	KED
|	**Cu**	**65**	**4.343**	ug/L	0.160	3	11	4992	2	KED
|	**Zn**	**66**	**9.261**	ug/L	0.328	3	19	2685	2	KED
|	**Zn**	**67**	**10.670**	ug/L	0.684	6	10	528	5	KED
|	**As**	**75**	**0.428**	ug/L	0.030	7	5	70	7	KED
⌊	**Se**	**78**	**0.553**	ug/L	0.041	7	8	18	5	KED
	Y	**89**		ug/L			218224	300701	1	Standard
	Kr	**83**		ug/L			58	87	20	Standard
⌈>	**In-1**	**115**		ug/L			4837	5159	3	KED
|	**Cd**	**111**	**0.017**	ug/L	0.009	55	1	4	34	KED
⌊	**Cd**	**114**	**0.009**	ug/L	0.018	197	3	7	98	KED
⌈>	**In**	**115**		ug/L			357855	382273	1	Standard
⌊	**Ag**	**107**	**0.012**	ug/L	0.001	5	44	239	5	Standard
⌈>	**Tb**	**159**		ug/L			578710	623989	2	Standard
⌊	**Pb**	**208**	**0.713**	ug/L	0.017	2	110	35799	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, January 04, 2023 22:43:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25570	52120	3	Standard
	Cl	37		ug/L			2742961	2820602	1	Standard
>	Sc	45		ug/L			348480	566773	4	Standard
	Cr	52	13.940	ug/L	0.300	2	14114	338191	2	Standard
	Cr	53	14.448	ug/L	0.270	1	122	37913	2	Standard
>	Ge	72		ug/L			15220	16916	1	KED
	Ni	60	16.832	ug/L	0.838	4	7	13349	3	KED
	Ni	62	16.764	ug/L	0.511	3	1	2177	1	KED
	Cu	63	21.095	ug/L	0.290	1	27	50710	0	KED
	Cu	65	21.720	ug/L	1.080	4	11	25486	3	KED
	Zn	66	42.478	ug/L	1.777	4	19	12525	2	KED
	Zn	67	49.239	ug/L	1.829	3	10	2456	2	KED
	As	75	2.360	ug/L	0.095	4	5	370	2	KED
	Se	78	2.705	ug/L	0.080	2	8	52	3	KED
	Y	89		ug/L			218224	600464	1	Standard
	Kr	83		ug/L			58	194	7	Standard
>	In-1	115		ug/L			4837	5191	0	KED
	Cd	111	0.067	ug/L	0.006	8	1	13	7	KED
	Cd	114	0.078	ug/L	0.019	24	3	40	22	KED
>	In	115		ug/L			357855	384216	1	Standard
	Ag	107	0.047	ug/L	0.002	3	44	831	4	Standard
>	Tb	159		ug/L			578710	644899	1	Standard
	Pb	208	3.426	ug/L	0.072	2	110	177419	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKK0557-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, January 04, 2023 22:48:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			25570	37869	4	Standard
Cl	37		ug/L			2742961	2825414	2	Standard
Sc	45		ug/L			348480	554875	1	Standard
Cr	52	13.441	ug/L	0.023	0	14114	320215	1	Standard
Cr	53	14.139	ug/L	0.235	1	122	36353	3	Standard
Ge	72		ug/L			15220	17272	0	KED
Ni	60	15.736	ug/L	0.406	2	7	12752	3	KED
Ni	62	15.737	ug/L	0.190	1	1	2087	0	KED
Cu	63	20.278	ug/L	0.235	1	27	49779	0	KED
Cu	65	20.362	ug/L	0.538	2	11	24410	2	KED
Zn	66	40.456	ug/L	1.476	3	19	12189	4	KED
Zn	67	49.521	ug/L	2.581	5	10	2522	4	KED
As	75	2.185	ug/L	0.089	4	5	350	3	KED
Se	78	2.293	ug/L	0.202	8	8	47	6	KED
Y	89		ug/L			218224	587085	2	Standard
Kr	83		ug/L			58	193	5	Standard
In-1	115		ug/L			4837	5137	1	KED
Cd	111	0.068	ug/L	0.019	27	1	13	23	KED
Cd	114	0.071	ug/L	0.039	54	3	36	48	KED
In	115		ug/L			357855	383138	0	Standard
Ag	107	0.049	ug/L	0.003	5	44	868	5	Standard
Tb	159		ug/L			578710	649450	1	Standard
Pb	208	3.354	ug/L	0.072	2	110	174891	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKK0557-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, January 04, 2023 22:53:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			25570	39260	4	Standard
Cl	37		ug/L			2742961	2830499	7	Standard
Sc	45		ug/L			348480	544053	2	Standard
Cr	52	32.112	ug/L	0.355	1	14114	719540	2	Standard
Cr	53	32.847	ug/L	0.499	1	122	82555	3	Standard
Ge	72		ug/L			15220	16963	3	KED
Ni	60	40.460	ug/L	2.150	5	7	32160	3	KED
Ni	62	39.940	ug/L	0.716	1	1	5202	4	KED
Cu	63	44.022	ug/L	1.097	2	27	106057	1	KED
Cu	65	45.157	ug/L	1.435	3	11	53124	1	KED
Zn	66	113.883	ug/L	6.237	5	19	33617	2	KED
Zn	67	119.620	ug/L	4.984	4	10	5966	2	KED
As	75	24.972	ug/L	0.533	2	5	3872	2	KED
Se	78	77.455	ug/L	2.188	2	8	1240	1	KED
Y	89		ug/L			218224	576724	1	Standard
Kr	83		ug/L			58	190	7	Standard
In-1	115		ug/L			4837	5247	0	KED
Cd	111	24.616	ug/L	0.667	2	1	4543	1	KED
Cd	114	24.575	ug/L	0.253	1	3	11526	1	KED
In	115		ug/L			357855	380500	1	Standard
Ag	107	20.763	ug/L	0.635	3	44	343189	1	Standard
Tb	159		ug/L			578710	651789	1	Standard
Pb	208	25.792	ug/L	0.482	1	110	1349143	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKK0557-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, January 04, 2023 22:57:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25570	38497	2	Standard
	Cl	37		ug/L			2742961	2843442	2	Standard
>	Sc	45		ug/L			348480	562056	1	Standard
	Cr	52	32.615	ug/L	0.267	0	14114	754653	2	Standard
	Cr	53	32.991	ug/L	0.411	1	122	85633	0	Standard
>	Ge	72		ug/L			15220	16705	2	KED
	Ni	60	41.298	ug/L	2.123	5	7	32318	2	KED
	Ni	62	41.055	ug/L	1.756	4	1	5260	2	KED
	Cu	63	44.043	ug/L	0.152	0	27	104538	3	KED
	Cu	65	44.599	ug/L	1.598	3	11	51677	3	KED
	Zn	66	117.546	ug/L	5.255	4	19	34179	1	KED
	Zn	67	119.441	ug/L	1.991	1	10	5869	2	KED
	As	75	24.546	ug/L	1.001	4	5	3746	1	KED
	Se	78	77.618	ug/L	2.392	3	8	1223	0	KED
	Y	89		ug/L			218224	592146	0	Standard
	Kr	83		ug/L			58	212	17	Standard
>	In-1	115		ug/L			4837	5106	2	KED
	Cd	111	25.057	ug/L	1.097	4	1	4499	2	KED
	Cd	114	24.856	ug/L	0.679	2	3	11344	3	KED
>	In	115		ug/L			357855	386105	1	Standard
	Ag	107	20.607	ug/L	0.400	1	44	345656	1	Standard
>	Tb	159		ug/L			578710	655878	1	Standard
	Pb	208	26.573	ug/L	0.556	2	110	1398714	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKK0557-PS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, January 04, 2023 23:02:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25570	52349	3	Standard
	Cl	**37**		ug/L			2742961	2902624	2	Standard
⌈>	**Sc**	**45**		ug/L			348480	568361	3	Standard
|	**Cr**	**52**	**32.455**	ug/L	1.174	3	14114	759160	3	Standard
⌊	**Cr**	**53**	**32.693**	ug/L	0.827	2	122	85781	2	Standard
⌈>	**Ge**	**72**		ug/L			15220	17015	0	KED
|	**Ni**	**60**	**41.055**	ug/L	0.960	2	7	32756	1	KED
|	**Ni**	**62**	**41.661**	ug/L	0.874	2	1	5441	2	KED
|	**Cu**	**63**	**44.345**	ug/L	0.351	0	27	107214	1	KED
|	**Cu**	**65**	**46.431**	ug/L	0.743	1	11	54817	1	KED
|	**Zn**	**66**	**119.155**	ug/L	1.614	1	19	35317	0	KED
|	**Zn**	**67**	**122.975**	ug/L	1.022	0	10	6156	1	KED
|	**As**	**75**	**27.663**	ug/L	0.441	1	5	4303	0	KED
⌊	**Se**	**78**	**85.712**	ug/L	1.638	1	8	1376	1	KED
	Y	**89**		ug/L			218224	587435	1	Standard
	Kr	**83**		ug/L			58	217	22	Standard
⌈>	**In-1**	**115**		ug/L			4837	5217	0	KED
|	**Cd**	**111**	**26.192**	ug/L	0.664	2	1	4806	1	KED
⌊	**Cd**	**114**	**25.125**	ug/L	0.462	1	3	11716	2	KED
⌈>	**In**	**115**		ug/L			357855	389877	0	Standard
⌊	**Ag**	**107**	**22.831**	ug/L	0.545	2	44	386798	3	Standard
⌈>	**Tb**	**159**		ug/L			578710	657106	1	Standard
⌊	**Pb**	**208**	**26.593**	ug/L	0.630	2	110	1402143	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKK0557-SRM1
Sample Dil Factor: 50
Comments:
Sample Date/Time: Wednesday, January 04, 2023 23:06:50
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25570	35456	2	Standard
	Cl	37		ug/L			2742961	2854373	3	Standard
⌈>	Sc	45		ug/L			348480	414530	1	Standard
|	Cr	52	96.573	ug/L	1.565	1	14114	1615141	2	Standard
⌊	Cr	53	97.996	ug/L	1.151	1	122	187350	2	Standard
⌈>	Ge	72		ug/L			15220	17150	2	KED
|	Ni	60	137.922	ug/L	3.444	2	7	110853	0	KED
|	Ni	62	137.023	ug/L	5.218	3	1	18023	2	KED
|	Cu	63	55.376	ug/L	1.242	2	27	134898	2	KED
|	Cu	65	56.500	ug/L	0.737	1	11	67220	1	KED
|	Zn	66	63.203	ug/L	2.283	3	19	18881	0	KED
|	Zn	67	73.588	ug/L	1.563	2	10	3717	2	KED
|	As	75	34.630	ug/L	0.847	2	5	5427	1	KED
⌊	Se	78	57.378	ug/L	1.858	3	8	931	0	KED
	Y	89		ug/L			218224	346686	1	Standard
	Kr	83		ug/L			58	88	7	Standard
⌈>	In-1	115		ug/L			4837	5335	3	KED
|	Cd	111	68.120	ug/L	2.922	4	1	12772	1	KED
⌊	Cd	114	66.806	ug/L	1.886	2	3	31835	1	KED
⌈>	In	115		ug/L			357855	397925	0	Standard
⌊	Ag	107	19.636	ug/L	0.421	2	44	339466	1	Standard
⌈>	Tb	159		ug/L			578710	639902	1	Standard
⌊	Pb	208	103.064	ug/L	2.710	2	110	5291866	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL8
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 23:11:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25570	29380	2	Standard
	Cl	**37**		ug/L			2742961	2814368	4	Standard
⌈>	**Sc**	**45**		ug/L			348480	372003	3	Standard
|	**Cr**	**52**	**-0.001**	ug/L	0.026	1750	14114	15041	2	Standard
⌊	**Cr**	**53**	**-0.011**	ug/L	0.006	53	122	111	5	Standard
⌈>	**Ge**	**72**		ug/L			15220	16146	2	KED
|	**Ni**	**60**	**0.001**	ug/L	0.005	492	7	8	44	KED
|	**Ni**	**62**	**0.020**	ug/L	0.009	45	1	4	24	KED
|	**Cu**	**63**	**0.057**	ug/L	0.002	4	27	160	5	KED
|	**Cu**	**65**	**0.059**	ug/L	0.015	25	11	78	23	KED
|	**Zn**	**66**	**0.019**	ug/L	0.022	117	19	25	22	KED
|	**Zn**	**67**	**-0.039**	ug/L	0.051	130	10	8	24	KED
|	**As**	**75**	**0.003**	ug/L	0.008	265	5	6	20	KED
⌊	**Se**	**78**	**0.185**	ug/L	0.224	120	8	12	29	KED
	Y	**89**		ug/L			218224	221220	3	Standard
	Kr	**83**		ug/L			58	66	29	Standard
⌈>	**In-1**	**115**		ug/L			4837	5106	1	KED
|	**Cd**	**111**	**0.014**	ug/L	0.020	146	1	4	87	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.002	69	3	2	51	KED
⌈>	**In**	**115**		ug/L			357855	384796	0	Standard
⌊	**Ag**	**107**	**0.004**	ug/L	0.003	69	44	118	41	Standard
⌈>	**Tb**	**159**		ug/L			578710	602209	2	Standard
⌊	**Pb**	**208**	**0.008**	ug/L	0.006	77	110	507	59	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVA
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 23:16:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25570	27583	2	Standard
	Cl	**37**		ug/L			2742961	3041142	0	Standard
⌈>	**Sc**	**45**		ug/L			348480	378654	1	Standard
|	**Cr**	**52**	**51.025**	ug/L	0.194	0	14114	786657	1	Standard
⌊	**Cr**	**53**	**52.175**	ug/L	0.866	1	122	91154	0	Standard
⌈>	**Ge**	**72**		ug/L			15220	15982	4	KED
|	**Ni**	**60**	**47.504**	ug/L	1.905	4	7	35559	0	KED
|	**Ni**	**62**	**47.795**	ug/L	1.625	3	1	5857	1	KED
|	**Cu**	**63**	**47.057**	ug/L	0.628	1	27	106820	3	KED
|	**Cu**	**65**	**48.851**	ug/L	1.781	3	11	54117	1	KED
|	**Zn**	**66**	**49.413**	ug/L	3.154	6	19	13743	1	KED
|	**Zn**	**67**	**50.032**	ug/L	0.305	0	10	2358	4	KED
|	**As**	**75**	**51.991**	ug/L	1.922	3	5	7584	1	KED
⌊	**Se**	**78**	**54.403**	ug/L	3.349	6	8	823	4	KED
	Y	**89**		ug/L			218224	225601	1	Standard
	Kr	**83**		ug/L			58	80	10	Standard
⌈>	**In-1**	**115**		ug/L			4837	5024	0	KED
|	**Cd**	**111**	**50.234**	ug/L	0.674	1	1	8877	0	KED
⌊	**Cd**	**114**	**49.654**	ug/L	1.046	2	3	22291	1	KED
⌈>	**In**	**115**		ug/L			357855	387959	1	Standard
⌊	**Ag**	**107**	**41.766**	ug/L	0.344	0	44	703953	0	Standard
⌈>	**Tb**	**159**		ug/L			578710	622769	2	Standard
⌊	**Pb**	**208**	**45.903**	ug/L	1.602	3	110	2293016	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBA
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, January 04, 2023 23:23:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25570	27924	4	Standard
	Cl	**37**		ug/L			2742961	2789316	2	Standard
⌈>	**Sc**	**45**		ug/L			348480	375648	1	Standard
|	**Cr**	**52**	**0.010**	ug/L	0.032	316	14114	15370	4	Standard
⌊	**Cr**	**53**	**-0.020**	ug/L	0.005	27	122	98	10	Standard
⌈>	**Ge**	**72**		ug/L			15220	16106	0	KED
|	**Ni**	**60**	**-0.004**	ug/L	0.004	96	7	5	57	KED
|	**Ni**	**62**	**0.004**	ug/L	0.009	208	1	2	43	KED
|	**Cu**	**63**	**-0.000**	ug/L	0.005	1279	27	28	43	KED
|	**Cu**	**65**	**0.003**	ug/L	0.005	182	11	15	37	KED
|	**Zn**	**66**	**0.028**	ug/L	0.052	186	19	27	52	KED
|	**Zn**	**67**	**-0.160**	ug/L	0.047	29	10	3	69	KED
|	**As**	**75**	**0.000**	ug/L	0.000	702	5	5	0	KED
⌊	**Se**	**78**	**0.267**	ug/L	0.067	25	8	13	7	KED
	Y	**89**		ug/L			218224	215751	3	Standard
	Kr	**83**		ug/L			58	57	38	Standard
⌈>	**In-1**	**115**		ug/L			4837	5000	1	KED
|	**Cd**	**111**	**0.005**	ug/L	0.006	118	1	2	43	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.006	215	3	2	116	KED
⌈>	**In**	**115**		ug/L			357855	376436	2	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.000	26	44	72	6	Standard
⌈>	**Tb**	**159**		ug/L			578710	606620	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	33	110	168	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKK0828-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, January 04, 2023 23:28:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25570	38162	2	Standard
	Cl	37		ug/L			2742961	2746883	4	Standard
>	Sc	45		ug/L			348480	383359	3	Standard
	Cr	52	0.026	ug/L	0.021	81	14114	15930	4	Standard
	Cr	53	-0.012	ug/L	0.003	23	122	114	3	Standard
>	Ge	72		ug/L			15220	16844	0	KED
	Ni	60	0.006	ug/L	0.006	102	7	13	37	KED
	Ni	62	0.028	ug/L	0.015	52	1	5	33	KED
	Cu	63	0.054	ug/L	0.008	14	27	160	11	KED
	Cu	65	0.049	ug/L	0.005	10	11	69	8	KED
	Zn	66	0.450	ug/L	0.078	17	19	153	15	KED
	Zn	67	0.312	ug/L	0.138	44	10	26	25	KED
	As	75	-0.010	ug/L	0.009	95	5	4	32	KED
	Se	78	0.269	ug/L	0.183	67	8	13	20	KED
	Y	89		ug/L			218224	220763	3	Standard
	Kr	83		ug/L			58	72	13	Standard
>	In-1	115		ug/L			4837	5238	1	KED
	Cd	111	0.003	ug/L	0.003	108	1	2	24	KED
	Cd	114	-0.003	ug/L	0.002	65	3	2	46	KED
>	In	115		ug/L			357855	382828	1	Standard
	Ag	107	0.002	ug/L	0.001	43	44	84	18	Standard
>	Tb	159		ug/L			578710	615002	2	Standard
	Pb	208	0.007	ug/L	0.001	6	110	476	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKK0828-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, January 04, 2023 23:32:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25570	38464	2	Standard
	Cl	37		ug/L			2742961	2769766	1	Standard
⌈>	Sc	45		ug/L			348480	378447	1	Standard
|	Cr	52	26.613	ug/L	0.031	0	14114	417416	1	Standard
⌊	Cr	53	27.209	ug/L	0.400	1	122	47589	2	Standard
⌈>	Ge	72		ug/L			15220	16382	3	KED
|	Ni	60	24.659	ug/L	0.711	2	7	18937	2	KED
|	Ni	62	24.611	ug/L	0.437	1	1	3094	2	KED
|	Cu	63	24.542	ug/L	0.748	3	27	57105	1	KED
|	Cu	65	24.960	ug/L	0.398	1	11	28373	2	KED
|	Zn	66	79.943	ug/L	3.100	3	19	22816	4	KED
|	Zn	67	74.145	ug/L	1.888	2	10	3577	3	KED
|	As	75	25.771	ug/L	0.492	1	5	3859	1	KED
⌊	Se	78	82.454	ug/L	5.097	6	8	1273	3	KED
	Y	89		ug/L			218224	223491	2	Standard
	Kr	83		ug/L			58	80	21	Standard
⌈>	In-1	115		ug/L			4837	5167	2	KED
|	Cd	111	25.484	ug/L	0.352	1	1	4631	1	KED
⌊	Cd	114	25.104	ug/L	0.591	2	3	11589	0	KED
⌈>	In	115		ug/L			357855	389496	1	Standard
⌊	Ag	107	22.185	ug/L	0.172	0	44	375435	0	Standard
⌈>	Tb	159		ug/L			578710	610709	1	Standard
⌊	Pb	208	24.912	ug/L	0.583	2	110	1220932	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKK0828-SRL1
Sample Dil Factor: 100
Comments:
Sample Date/Time: Wednesday, January 04, 2023 23:37:21
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25570	34051	2	Standard
	Cl	**37**		ug/L			2742961	2827655	1	Standard
⌈>	**Sc**	**45**		ug/L			348480	409156	2	Standard
|	**Cr**	**52**	**3.464**	ug/L	0.023	0	14114	73154	2	Standard
⌊	**Cr**	**53**	**3.616**	ug/L	0.068	1	122	6963	3	Standard
⌈>	**Ge**	**72**		ug/L			15220	16655	2	KED
|	**Ni**	**60**	**3.590**	ug/L	0.131	3	7	2811	4	KED
|	**Ni**	**62**	**3.625**	ug/L	0.309	8	1	464	6	KED
|	**Cu**	**63**	**3.946**	ug/L	0.022	0	27	9364	2	KED
|	**Cu**	**65**	**4.115**	ug/L	0.134	3	11	4764	1	KED
|	**Zn**	**66**	**14.015**	ug/L	0.586	4	19	4083	3	KED
|	**Zn**	**67**	**14.987**	ug/L	0.871	5	10	743	3	KED
|	**As**	**75**	**0.581**	ug/L	0.032	5	5	94	4	KED
⌊	**Se**	**78**	**0.540**	ug/L	0.148	27	8	18	14	KED
	Y	**89**		ug/L			218224	288821	2	Standard
	Kr	**83**		ug/L			58	80	8	Standard
⌈>	**In-1**	**115**		ug/L			4837	5308	2	KED
|	**Cd**	**111**	**0.022**	ug/L	0.019	87	1	5	60	KED
⌊	**Cd**	**114**	**0.019**	ug/L	0.008	41	3	12	26	KED
⌈>	**In**	**115**		ug/L			357855	397882	1	Standard
⌊	**Ag**	**107**	**0.028**	ug/L	0.001	2	44	525	0	Standard
⌈>	**Tb**	**159**		ug/L			578710	630457	1	Standard
⌊	**Pb**	**208**	**2.369**	ug/L	0.046	1	110	119958	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, January 04, 2023 23:41:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25570	47029	3	Standard
	Cl	37		ug/L			2742961	2931066	1	Standard
>	Sc	45		ug/L			348480	530760	1	Standard
	Cr	52	13.700	ug/L	0.415	3	14114	311694	1	Standard
	Cr	53	14.044	ug/L	0.040	0	122	34537	1	Standard
>	Ge	72		ug/L			15220	16412	1	KED
	Ni	60	18.071	ug/L	0.321	1	7	13910	0	KED
	Ni	62	17.329	ug/L	0.584	3	1	2183	1	KED
	Cu	63	19.505	ug/L	0.183	0	27	45502	1	KED
	Cu	65	19.992	ug/L	0.634	3	11	22771	2	KED
	Zn	66	65.473	ug/L	1.854	2	19	18725	2	KED
	Zn	67	71.038	ug/L	2.433	3	10	3434	2	KED
	As	75	2.562	ug/L	0.025	0	5	389	2	KED
	Se	78	2.050	ug/L	0.011	0	8	40	1	KED
	Y	89		ug/L			218224	538663	3	Standard
	Kr	83		ug/L			58	188	6	Standard
>	In-1	115		ug/L			4837	5063	3	KED
	Cd	111	0.103	ug/L	0.013	12	1	20	14	KED
	Cd	114	0.107	ug/L	0.020	19	3	52	20	KED
>	In	115		ug/L			357855	392764	0	Standard
	Ag	107	0.129	ug/L	0.007	5	44	2255	4	Standard
>	Tb	159		ug/L			578710	646315	1	Standard
	Pb	208	11.564	ug/L	0.221	1	110	599886	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKK0828-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, January 04, 2023 23:46:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			25570	44715	3	Standard
Cl	37		ug/L			2742961	2874124	5	Standard
> Sc	45		ug/L			348480	523630	3	Standard
Cr	52	13.278	ug/L	0.097	0	14114	298747	2	Standard
Cr	53	13.805	ug/L	0.258	1	122	33487	2	Standard
> Ge	72		ug/L			15220	16696	0	KED
Ni	60	17.609	ug/L	0.293	1	7	13793	2	KED
Ni	62	17.805	ug/L	0.402	2	1	2283	2	KED
Cu	63	20.034	ug/L	0.551	2	27	47543	2	KED
Cu	65	20.642	ug/L	0.348	1	11	23922	2	KED
Zn	66	66.921	ug/L	1.825	2	19	19476	3	KED
Zn	67	67.517	ug/L	5.768	8	10	3322	8	KED
As	75	2.536	ug/L	0.080	3	5	392	3	KED
Se	78	2.358	ug/L	0.291	12	8	46	9	KED
Y	89		ug/L			218224	554602	0	Standard
Kr	83		ug/L			58	165	7	Standard
> In-1	115		ug/L			4837	5165	3	KED
Cd	111	0.069	ug/L	0.025	35	1	14	30	KED
Cd	114	0.106	ug/L	0.019	18	3	52	16	KED
> In	115		ug/L			357855	395303	2	Standard
Ag	107	0.120	ug/L	0.005	4	44	2104	2	Standard
> Tb	159		ug/L			578710	650307	1	Standard
Pb	208	9.903	ug/L	0.148	1	110	516933	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKK0828-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, January 04, 2023 23:51:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25570	39713	3	Standard
	Cl	37		ug/L			2742961	2848096	1	Standard
>	Sc	45		ug/L			348480	509324	2	Standard
	Cr	52	33.700	ug/L	0.493	1	14114	705827	2	Standard
	Cr	53	35.044	ug/L	0.842	2	122	82405	2	Standard
>	Ge	72		ug/L			15220	16762	1	KED
	Ni	60	41.182	ug/L	0.435	1	7	32375	2	KED
	Ni	62	41.881	ug/L	0.648	1	1	5388	1	KED
	Cu	63	43.586	ug/L	1.027	2	27	103783	0	KED
	Cu	65	43.775	ug/L	2.653	6	11	50909	5	KED
	Zn	66	141.184	ug/L	3.059	2	19	41214	0	KED
	Zn	67	142.737	ug/L	1.763	1	10	7038	2	KED
	As	75	26.007	ug/L	0.678	2	5	3985	1	KED
	Se	78	78.115	ug/L	1.815	2	8	1236	2	KED
	Y	89		ug/L			218224	534711	3	Standard
	Kr	83		ug/L			58	168	13	Standard
>	In-1	115		ug/L			4837	5178	0	KED
	Cd	111	25.136	ug/L	0.193	0	1	4579	1	KED
	Cd	114	24.523	ug/L	0.226	0	3	11350	0	KED
>	In	115		ug/L			357855	382416	1	Standard
	Ag	107	20.770	ug/L	0.882	4	44	344979	2	Standard
>	Tb	159		ug/L			578710	649103	1	Standard
	Pb	208	32.442	ug/L	0.695	2	110	1689895	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKK0828-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, January 04, 2023 23:55:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			25570	47832	2	Standard
Cl	37		ug/L			2742961	2867991	4	Standard
> Sc	45		ug/L			348480	523676	3	Standard
Cr	52	33.035	ug/L	0.234	0	14114	711786	2	Standard
Cr	53	33.864	ug/L	1.100	3	122	81846	0	Standard
> Ge	72		ug/L			15220	16580	1	KED
Ni	60	41.790	ug/L	1.125	2	7	32489	2	KED
Ni	62	41.502	ug/L	1.024	2	1	5282	2	KED
Cu	63	43.318	ug/L	0.796	1	27	102054	2	KED
Cu	65	44.398	ug/L	0.294	0	11	51076	0	KED
Zn	66	145.230	ug/L	1.397	0	19	41947	2	KED
Zn	67	145.854	ug/L	4.208	2	10	7112	2	KED
As	75	24.930	ug/L	0.506	2	5	3779	1	KED
Se	78	77.686	ug/L	3.000	3	8	1216	2	KED
Y	89		ug/L			218224	549049	1	Standard
Kr	83		ug/L			58	172	2	Standard
> In-1	115		ug/L			4837	5260	1	KED
Cd	111	24.429	ug/L	0.883	3	1	4518	1	KED
Cd	114	23.830	ug/L	0.261	1	3	11202	1	KED
> In	115		ug/L			357855	385934	1	Standard
Ag	107	19.476	ug/L	0.139	0	44	326573	0	Standard
> Tb	159		ug/L			578710	649850	2	Standard
Pb	208	33.032	ug/L	0.589	1	110	1722499	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKK0828-PS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 00:00:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25570	46722	1	Standard
	Cl	**37**		ug/L			2742961	2860909	2	Standard
⌈>	**Sc**	**45**		ug/L			348480	514686	2	Standard
|	**Cr**	**52**	**32.045**	ug/L	0.515	1	14114	679329	2	Standard
⌊	**Cr**	**53**	**32.747**	ug/L	1.135	3	122	77827	2	Standard
⌈>	**Ge**	**72**		ug/L			15220	16320	0	KED
|	**Ni**	**60**	**40.784**	ug/L	0.310	0	7	31212	0	KED
|	**Ni**	**62**	**42.128**	ug/L	1.440	3	1	5278	4	KED
|	**Cu**	**63**	**42.463**	ug/L	0.812	1	27	98479	2	KED
|	**Cu**	**65**	**43.544**	ug/L	0.695	1	11	49313	1	KED
|	**Zn**	**66**	**137.620**	ug/L	2.628	1	19	39125	2	KED
|	**Zn**	**67**	**141.162**	ug/L	4.797	3	10	6778	4	KED
|	**As**	**75**	**26.455**	ug/L	0.200	0	5	3948	0	KED
⌊	**Se**	**78**	**80.484**	ug/L	2.271	2	8	1240	3	KED
	Y	**89**		ug/L			218224	515813	0	Standard
	Kr	**83**		ug/L			58	152	18	Standard
⌈>	**In-1**	**115**		ug/L			4837	5127	0	KED
|	**Cd**	**111**	**24.112**	ug/L	0.389	1	1	4349	1	KED
⌊	**Cd**	**114**	**23.662**	ug/L	0.271	1	3	10844	1	KED
⌈>	**In**	**115**		ug/L			357855	385391	1	Standard
⌊	**Ag**	**107**	**20.789**	ug/L	0.511	2	44	348120	2	Standard
⌈>	**Tb**	**159**		ug/L			578710	647414	1	Standard
⌊	**Pb**	**208**	**32.736**	ug/L	0.582	1	110	1700782	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKK0828-SRM1
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 05, 2023 00:04:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25570	40208	2	Standard
	Cl	37		ug/L			2742961	2877859	1	Standard
⌈>	Sc	45		ug/L			348480	410267	0	Standard
|	Cr	52	109.021	ug/L	0.421	0	14114	1802280	0	Standard
⌊	Cr	53	110.225	ug/L	0.886	0	122	208528	0	Standard
⌈>	Ge	72		ug/L			15220	16397	0	KED
|	Ni	60	164.205	ug/L	0.953	0	7	126247	1	KED
|	Ni	62	165.334	ug/L	2.808	1	1	20806	2	KED
|	Cu	63	64.001	ug/L	0.356	0	27	149102	0	KED
|	Cu	65	65.714	ug/L	1.120	1	11	74764	1	KED
|	Zn	66	71.889	ug/L	2.360	3	19	20544	3	KED
|	Zn	67	84.350	ug/L	5.035	5	10	4072	5	KED
|	As	75	39.084	ug/L	0.953	2	5	5857	1	KED
⌊	Se	78	63.844	ug/L	0.904	1	8	990	0	KED
	Y	89		ug/L			218224	355494	0	Standard
	Kr	83		ug/L			58	108	6	Standard
⌈>	In-1	115		ug/L			4837	5273	2	KED
|	Cd	111	76.275	ug/L	1.852	2	1	14142	1	KED
⌊	Cd	114	74.987	ug/L	3.599	4	3	35306	2	KED
⌈>	In	115		ug/L			357855	388472	0	Standard
⌊	Ag	107	20.752	ug/L	0.507	2	44	350234	1	Standard
⌈>	Tb	159		ug/L			578710	640065	2	Standard
⌊	Pb	208	105.996	ug/L	2.953	2	110	5443114	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL9
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 00:09:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25570	30559	3	Standard
	Cl	**37**		ug/L			2742961	2738135	2	Standard
⎡>	**Sc**	**45**		ug/L			348480	362918	1	Standard
⎢	**Cr**	**52**	**0.002**	ug/L	0.009	459	14114	14728	2	Standard
⎣	**Cr**	**53**	**-0.021**	ug/L	0.005	21	122	91	9	Standard
⎡>	**Ge**	**72**		ug/L			15220	15953	2	KED
⎢	**Ni**	**60**	**0.009**	ug/L	0.009	100	7	14	45	KED
⎢	**Ni**	**62**	**-0.011**	ug/L	0.009	78	1	0	173	KED
⎢	**Cu**	**63**	**0.056**	ug/L	0.003	5	27	156	4	KED
⎢	**Cu**	**65**	**0.044**	ug/L	0.020	45	11	60	36	KED
⎢	**Zn**	**66**	**0.019**	ug/L	0.012	64	19	25	15	KED
⎢	**Zn**	**67**	**-0.132**	ug/L	0.023	17	10	4	24	KED
⎢	**As**	**75**	**0.006**	ug/L	0.024	436	5	6	55	KED
⎣	**Se**	**78**	**0.213**	ug/L	0.046	21	8	12	6	KED
	Y	**89**		ug/L			218224	219902	1	Standard
	Kr	**83**		ug/L			58	53	16	Standard
⎡>	**In-1**	**115**		ug/L			4837	5010	1	KED
⎢	**Cd**	**111**	**-0.004**	ug/L	0.000	1	1	0		KED
⎣	**Cd**	**114**	**0.006**	ug/L	0.002	34	3	6	14	KED
⎡>	**In**	**115**		ug/L			357855	373244	3	Standard
⎣	**Ag**	**107**	**0.003**	ug/L	0.001	19	44	94	9	Standard
⎡>	**Tb**	**159**		ug/L			578710	595668	2	Standard
⎣	**Pb**	**208**	**0.004**	ug/L	0.001	20	110	305	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVB
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 00:14:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25570	28604	4	Standard
	Cl	**37**		ug/L			2742961	2939182	0	Standard
⌈>	**Sc**	**45**		ug/L			348480	354655	3	Standard
|	**Cr**	**52**	**53.471**	ug/L	1.973	3	14114	770822	0	Standard
⌊	**Cr**	**53**	**54.036**	ug/L	1.201	2	122	88393	1	Standard
⌈>	**Ge**	**72**		ug/L			15220	15998	0	KED
|	**Ni**	**60**	**47.776**	ug/L	1.135	2	7	35840	2	KED
|	**Ni**	**62**	**47.288**	ug/L	1.209	2	1	5806	1	KED
|	**Cu**	**63**	**48.181**	ug/L	0.891	1	27	109508	1	KED
|	**Cu**	**65**	**47.707**	ug/L	0.746	1	11	52964	2	KED
|	**Zn**	**66**	**49.287**	ug/L	1.233	2	19	13746	2	KED
|	**Zn**	**67**	**50.952**	ug/L	1.496	2	10	2404	3	KED
|	**As**	**75**	**51.811**	ug/L	0.562	1	5	7573	0	KED
⌊	**Se**	**78**	**54.825**	ug/L	1.179	2	8	830	1	KED
	Y	**89**		ug/L			218224	217457	3	Standard
	Kr	**83**		ug/L			58	86	9	Standard
⌈>	**In-1**	**115**		ug/L			4837	5069	2	KED
|	**Cd**	**111**	**50.189**	ug/L	1.440	2	1	8946	0	KED
⌊	**Cd**	**114**	**49.888**	ug/L	1.293	2	3	22601	3	KED
⌈>	**In**	**115**		ug/L			357855	364098	4	Standard
⌊	**Ag**	**107**	**44.088**	ug/L	1.030	2	44	697008	2	Standard
⌈>	**Tb**	**159**		ug/L			578710	597389	3	Standard
⌊	**Pb**	**208**	**46.816**	ug/L	1.347	2	110	2243024	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBB
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 00:21:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25570	28410	0	Standard
	Cl	**37**		ug/L			2742961	2812773	2	Standard
⌈>	**Sc**	**45**		ug/L			348480	359728	4	Standard
|	**Cr**	**52**	**-0.006**	ug/L	0.009	153	14114	14480	3	Standard
⌊	**Cr**	**53**	**-0.023**	ug/L	0.010	45	122	89	22	Standard
⌈>	**Ge**	**72**		ug/L			15220	15759	1	KED
|	**Ni**	**60**	**-0.002**	ug/L	0.006	305	7	6	69	KED
|	**Ni**	**62**	**0.015**	ug/L	0.001	3	1	3	0	KED
|	**Cu**	**63**	**-0.003**	ug/L	0.004	164	27	22	41	KED
|	**Cu**	**65**	**0.010**	ug/L	0.003	32	11	22	14	KED
|	**Zn**	**66**	**0.007**	ug/L	0.029	421	19	21	36	KED
|	**Zn**	**67**	**-0.159**	ug/L	0.024	15	10	3	34	KED
|	**As**	**75**	**-0.000**	ug/L	0.011	4359	5	5	30	KED
⌊	**Se**	**78**	**0.151**	ug/L	0.068	44	8	11	7	KED
	Y	**89**		ug/L			218224	216204	0	Standard
	Kr	**83**		ug/L			58	63	3	Standard
⌈>	**In-1**	**115**		ug/L			4837	5020	1	KED
|	**Cd**	**111**	**0.001**	ug/L	0.009	647	1	1	86	KED
⌊	**Cd**	**114**	**0.005**	ug/L	0.002	43	3	6	16	KED
⌈>	**In**	**115**		ug/L			357855	377486	2	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	56	44	78	25	Standard
⌈>	**Tb**	**159**		ug/L			578710	597374	4	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	16	110	165	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0006-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 00:26:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25570	36077	3	Standard
	Cl	37		ug/L			2742961	2813707	3	Standard
⌈>	Sc	45		ug/L			348480	375302	2	Standard
|	Cr	52	0.031	ug/L	0.024	77	14114	15658	0	Standard
⌊	Cr	53	-0.014	ug/L	0.002	17	122	106	1	Standard
⌈>	Ge	72		ug/L			15220	16446	4	KED
|	Ni	60	0.007	ug/L	0.007	102	7	13	37	KED
|	Ni	62	0.019	ug/L	0.038	195	1	4	107	KED
|	Cu	63	0.017	ug/L	0.003	19	27	70	7	KED
|	Cu	65	0.021	ug/L	0.008	38	11	35	21	KED
|	Zn	66	0.503	ug/L	0.049	9	19	165	12	KED
|	Zn	67	0.226	ug/L	0.226	99	10	21	45	KED
|	As	75	-0.003	ug/L	0.009	290	5	5	26	KED
⌊	Se	78	0.221	ug/L	0.135	61	8	12	14	KED
	Y	89		ug/L			218224	222693	2	Standard
	Kr	83		ug/L			58	57	24	Standard
⌈>	In-1	115		ug/L			4837	5211	1	KED
|	Cd	111	0.010	ug/L	0.008	84	1	3	41	KED
⌊	Cd	114	0.006	ug/L	0.012	187	3	6	79	KED
⌈>	In	115		ug/L			357855	385816	1	Standard
⌊	Ag	107	0.001	ug/L	0.000	20	44	67	7	Standard
⌈>	Tb	159		ug/L			578710	606295	0	Standard
⌊	Pb	208	0.005	ug/L	0.000	9	110	371	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0006-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 00:30:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25570	36863	3	Standard
	Cl	37		ug/L			2742961	2869284	3	Standard
⌈>	Sc	45		ug/L			348480	392380	3	Standard
|	Cr	52	26.106	ug/L	0.388	1	14114	424762	2	Standard
⌊	Cr	53	26.629	ug/L	0.257	0	122	48293	4	Standard
⌈>	Ge	72		ug/L			15220	16298	0	KED
|	Ni	60	25.051	ug/L	0.591	2	7	19149	2	KED
|	Ni	62	24.616	ug/L	1.189	4	1	3079	3	KED
|	Cu	63	24.348	ug/L	0.539	2	27	56393	1	KED
|	Cu	65	25.421	ug/L	0.587	2	11	28751	1	KED
|	Zn	66	76.250	ug/L	1.466	1	19	21655	1	KED
|	Zn	67	72.091	ug/L	1.477	2	10	3462	2	KED
|	As	75	25.346	ug/L	0.394	1	5	3777	1	KED
⌊	Se	78	83.249	ug/L	1.824	2	8	1280	2	KED
	Y	89		ug/L			218224	230348	3	Standard
	Kr	83		ug/L			58	76	13	Standard
⌈>	In-1	115		ug/L			4837	5031	1	KED
|	Cd	111	25.496	ug/L	0.699	2	1	4512	1	KED
⌊	Cd	114	25.396	ug/L	0.508	2	3	11421	2	KED
⌈>	In	115		ug/L			357855	391820	0	Standard
⌊	Ag	107	22.029	ug/L	0.408	1	44	375030	1	Standard
⌈>	Tb	159		ug/L			578710	623973	1	Standard
⌊	Pb	208	24.136	ug/L	0.661	2	110	1208570	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0006-SRL1
Sample Dil Factor: 100
Comments:
Sample Date/Time: Thursday, January 05, 2023 00:35:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25570	34373	4	Standard
	Cl	**37**		ug/L			2742961	2820947	2	Standard
⌈>	**Sc**	**45**		ug/L			348480	412215	5	Standard
|	**Cr**	**52**	**3.735**	ug/L	0.126	3	14114	78091	3	Standard
⌊	**Cr**	**53**	**3.883**	ug/L	0.184	4	122	7508	2	Standard
⌈>	**Ge**	**72**		ug/L			15220	16384	1	KED
|	**Ni**	**60**	**3.005**	ug/L	0.112	3	7	2315	2	KED
|	**Ni**	**62**	**3.033**	ug/L	0.159	5	1	383	6	KED
|	**Cu**	**63**	**32.046**	ug/L	0.328	1	27	74611	1	KED
|	**Cu**	**65**	**32.822**	ug/L	0.291	0	11	37317	1	KED
|	**Zn**	**66**	**35.176**	ug/L	1.289	3	19	10051	2	KED
|	**Zn**	**67**	**34.277**	ug/L	2.458	7	10	1659	5	KED
|	**As**	**75**	**1.071**	ug/L	0.033	3	5	166	4	KED
⌊	**Se**	**78**	**0.582**	ug/L	0.096	16	8	18	9	KED
	Y	**89**		ug/L			218224	286588	2	Standard
	Kr	**83**		ug/L			58	87	19	Standard
⌈>	**In-1**	**115**		ug/L			4837	5052	1	KED
|	**Cd**	**111**	**0.053**	ug/L	0.034	64	1	11	55	KED
⌊	**Cd**	**114**	**0.046**	ug/L	0.033	70	3	24	58	KED
⌈>	**In**	**115**		ug/L			357855	381881	1	Standard
⌊	**Ag**	**107**	**0.048**	ug/L	0.002	3	44	836	2	Standard
⌈>	**Tb**	**159**		ug/L			578710	624204	1	Standard
⌊	**Pb**	**208**	**3.663**	ug/L	0.057	1	110	183613	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-25
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 00:40:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			25570	42681	1	Standard
Cl	37		ug/L			2742961	2802962	4	Standard
Sc	45		ug/L			348480	530148	5	Standard
Cr	52	14.730	ug/L	0.340	2	14114	333025	3	Standard
Cr	53	15.315	ug/L	0.308	2	122	37588	4	Standard
Ge	72		ug/L			15220	16235	1	KED
Ni	60	15.028	ug/L	0.496	3	7	11443	2	KED
Ni	62	15.774	ug/L	0.327	2	1	1967	2	KED
Cu	63	158.246	ug/L	4.270	2	27	364851	0	KED
Cu	65	161.381	ug/L	0.862	0	11	181768	1	KED
Zn	66	167.711	ug/L	7.017	4	19	47402	2	KED
Zn	67	161.991	ug/L	5.241	3	10	7732	1	KED
As	75	5.265	ug/L	0.137	2	5	786	0	KED
Se	78	2.519	ug/L	0.536	21	8	47	15	KED
Y	89		ug/L			218224	528628	0	Standard
Kr	83		ug/L			58	191	13	Standard
In-1	115		ug/L			4837	5068	2	KED
Cd	111	0.229	ug/L	0.042	18	1	42	20	KED
Cd	114	0.232	ug/L	0.010	4	3	109	6	KED
In	115		ug/L			357855	381147	1	Standard
Ag	107	0.211	ug/L	0.008	3	44	3532	2	Standard
Tb	159		ug/L			578710	642380	2	Standard
Pb	208	17.522	ug/L	0.356	2	110	903239	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0006-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 00:44:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			25570	43157	0	Standard
Cl	37		ug/L			2742961	2809010	2	Standard
> Sc	45		ug/L			348480	551237	1	Standard
Cr	52	15.194	ug/L	0.307	2	14114	356768	3	Standard
Cr	53	15.613	ug/L	0.247	1	122	39853	2	Standard
> Ge	72		ug/L			15220	16492	0	KED
Ni	60	16.107	ug/L	0.362	2	7	12463	2	KED
Ni	62	16.575	ug/L	0.460	2	1	2099	3	KED
Cu	63	153.904	ug/L	2.489	1	27	360605	2	KED
Cu	65	156.867	ug/L	3.428	2	11	179483	1	KED
Zn	66	159.871	ug/L	3.716	2	19	45928	2	KED
Zn	67	157.403	ug/L	6.744	4	10	7636	4	KED
As	75	5.092	ug/L	0.143	2	5	772	3	KED
Se	78	2.486	ug/L	0.306	12	8	47	10	KED
Y	89		ug/L			218224	551311	1	Standard
Kr	83		ug/L			58	218	5	Standard
> In-1	115		ug/L			4837	5037	1	KED
Cd	111	0.225	ug/L	0.009	4	1	41	5	KED
Cd	114	0.226	ug/L	0.046	20	3	105	18	KED
> In	115		ug/L			357855	389326	2	Standard
Ag	107	0.184	ug/L	0.007	3	44	3155	2	Standard
> Tb	159		ug/L			578710	649875	1	Standard
Pb	208	18.598	ug/L	0.314	1	110	969984	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0006-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 00:49:23
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			25570	40735	1	Standard
Cl	37		ug/L			2742961	2908930	1	Standard
> Sc	45		ug/L			348480	544222	1	Standard
Cr	52	34.461	ug/L	0.423	1	14114	770901	3	Standard
Cr	53	35.337	ug/L	0.616	1	122	88814	2	Standard
> Ge	72		ug/L			15220	16745	1	KED
Ni	60	39.245	ug/L	0.429	1	7	30820	2	KED
Ni	62	40.523	ug/L	1.375	3	1	5208	3	KED
Cu STL	63	207.091	ug/L	3.274	1	27	492607	1	KED
Cu	65	209.512	ug/L	2.723	1	11	243380	1	KED
Zn	66	248.293	ug/L	4.291	1	19	72400	0	KED
Zn	67	235.215	ug/L	3.486	1	10	11579	2	KED
As	75	28.106	ug/L	0.427	1	5	4302	0	KED
Se	78	77.724	ug/L	1.356	1	8	1229	0	KED
Y	89		ug/L			218224	558030	1	Standard
Kr	83		ug/L			58	203	9	Standard
> In-1	115		ug/L			4837	5229	2	KED
Cd	111	24.364	ug/L	0.508	2	1	4480	1	KED
Cd	114	24.525	ug/L	0.788	3	3	11455	1	KED
> In	115		ug/L			357855	388427	2	Standard
Ag	107	19.561	ug/L	0.275	1	44	330077	0	Standard
> Tb	159		ug/L			578710	649275	0	Standard
Pb	208	41.225	ug/L	0.880	2	110	2148156	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0006-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 00:54:00
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte		Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C		13		ug/L			25570	40673	3	Standard
Cl		37		ug/L			2742961	2868623	0	Standard
Sc		45		ug/L			348480	550097	2	Standard
Cr		52	33.478	ug/L	1.032	3	14114	757221	2	Standard
Cr		53	34.869	ug/L	1.146	3	122	88564	3	Standard
Ge		72		ug/L			15220	16711	3	KED
Ni		60	38.280	ug/L	1.426	3	7	29972	0	KED
Ni		62	39.135	ug/L	2.416	6	1	5012	2	KED
Cu	STL	63	176.420	ug/L	4.933	2	27	418559	1	KED
Cu		65	182.590	ug/L	7.764	4	11	211481	1	KED
Zn		66	235.148	ug/L	9.977	4	19	68380	2	KED
Zn		67	227.368	ug/L	8.802	3	10	11159	0	KED
As		75	28.033	ug/L	1.030	3	5	4280	1	KED
Se		78	78.709	ug/L	4.394	5	8	1240	3	KED
Y		89		ug/L			218224	566245	2	Standard
Kr		83		ug/L			58	206	5	Standard
In-1		115		ug/L			4837	5229	0	KED
Cd		111	24.220	ug/L	0.207	0	1	4455	0	KED
Cd		114	23.742	ug/L	0.138	0	3	11096	1	KED
In		115		ug/L			357855	383969	1	Standard
Ag		107	20.154	ug/L	0.505	2	44	336170	1	Standard
Tb		159		ug/L			578710	647181	1	Standard
Pb		208	40.857	ug/L	0.775	1	110	2121895	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0006-PS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 00:58:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25570	42883	1	Standard
	Cl	**37**		ug/L			2742961	2820774	0	Standard
>	**Sc**	**45**		ug/L			348480	514079	3	Standard
	Cr	**52**	**33.316**	ug/L	0.817	2	14114	704290	1	Standard
	Cr	**53**	**34.332**	ug/L	0.802	2	122	81487	2	Standard
>	**Ge**	**72**		ug/L			15220	16382	1	KED
	Ni	**60**	**38.081**	ug/L	0.354	0	7	29254	0	KED
	Ni	**62**	**37.780**	ug/L	0.877	2	1	4750	1	KED
	Cu	**63**	**179.510**	ug/L	2.811	1	27	417704	0	KED
	Cu	**65**	**180.179**	ug/L	2.684	1	11	204788	2	KED
	Zn	**66**	**234.064**	ug/L	4.792	2	19	66773	1	KED
	Zn	**67**	**230.449**	ug/L	5.020	2	10	11097	1	KED
	As	**75**	**29.531**	ug/L	0.793	2	5	4422	1	KED
	Se	**78**	**79.502**	ug/L	2.590	3	8	1229	1	KED
	Y	**89**		ug/L			218224	527556	0	Standard
	Kr	**83**		ug/L			58	199	19	Standard
>	**In-1**	**115**		ug/L			4837	5240	2	KED
	Cd	**111**	**24.258**	ug/L	0.517	2	1	4470	0	KED
	Cd	**114**	**23.633**	ug/L	0.687	2	3	11064	0	KED
>	**In**	**115**		ug/L			357855	384324	0	Standard
	Ag	**107**	**21.297**	ug/L	0.273	1	44	355647	1	Standard
>	**Tb**	**159**		ug/L			578710	633990	2	Standard
	Pb	**208**	**39.808**	ug/L	1.168	2	110	2024765	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0006-SRM1
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 05, 2023 01:03:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25570	41520	2	Standard
	Cl	37		ug/L			2742961	2757225	4	Standard
⌈>	Sc	45		ug/L			348480	412652	1	Standard
|	Cr	52	97.137	ug/L	1.142	1	14114	1616924	1	Standard
⌊	Cr	53	98.767	ug/L	1.270	1	122	187979	2	Standard
⌈>	Ge	72		ug/L			15220	16567	2	KED
|	Ni	60	149.047	ug/L	5.537	3	7	115717	2	KED
|	Ni	62	150.180	ug/L	4.985	3	1	19084	1	KED
|	Cu	63	61.011	ug/L	1.223	2	27	143623	3	KED
|	Cu	65	63.469	ug/L	1.853	2	11	72963	3	KED
|	Zn	66	70.223	ug/L	2.156	3	19	20267	1	KED
|	Zn	67	80.880	ug/L	2.357	2	10	3945	2	KED
|	As	75	39.203	ug/L	0.463	1	5	5935	1	KED
⌊	Se	78	62.632	ug/L	2.758	4	8	981	2	KED
	Y	89		ug/L			218224	363255	1	Standard
	Kr	83		ug/L			58	90	15	Standard
⌈>	In-1	115		ug/L			4837	5041	1	KED
|	Cd	111	75.109	ug/L	2.335	3	1	13315	1	KED
⌊	Cd	114	73.741	ug/L	0.198	0	3	33222	1	KED
⌈>	In	115		ug/L			357855	388813	1	Standard
⌊	Ag	107	21.950	ug/L	0.350	1	44	370753	0	Standard
⌈>	Tb	159		ug/L			578710	640111	1	Standard
⌊	Pb	208	113.052	ug/L	2.541	2	110	5806947	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLA
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 01:07:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25570	29175	3	Standard
	Cl	**37**		ug/L			2742961	2714936	1	Standard
⎡>	**Sc**	**45**		ug/L			348480	366040	3	Standard
⎢	**Cr**	**52**	**0.003**	ug/L	0.051	1799	14114	14856	3	Standard
⎣	**Cr**	**53**	**-0.022**	ug/L	0.010	47	122	92	21	Standard
⎡>	**Ge**	**72**		ug/L			15220	15335	2	KED
⎢	**Ni**	**60**	**0.009**	ug/L	0.011	127	7	13	56	KED
⎢	**Ni**	**62**	**0.000**	ug/L	0.016	15743	1	1	100	KED
⎢	**Cu**	**63**	**0.053**	ug/L	0.006	11	27	142	7	KED
⎢	**Cu**	**65**	**0.062**	ug/L	0.003	5	11	77	5	KED
⎢	**Zn**	**66**	**0.021**	ug/L	0.014	67	19	24	13	KED
⎢	**Zn**	**67**	**-0.128**	ug/L	0.051	39	10	4	49	KED
⎢	**As**	**75**	**0.005**	ug/L	0.020	394	5	6	48	KED
⎣	**Se**	**78**	**0.189**	ug/L	0.124	65	8	11	16	KED
	Y	**89**		ug/L			218224	215732	1	Standard
	Kr	**83**		ug/L			58	71	14	Standard
⎡>	**In-1**	**115**		ug/L			4837	5024	2	KED
⎢	**Cd**	**111**	**0.009**	ug/L	0.003	30	1	3	17	KED
⎣	**Cd**	**114**	**0.002**	ug/L	0.009	428	3	4	85	KED
⎡>	**In**	**115**		ug/L			357855	374810	0	Standard
⎣	**Ag**	**107**	**0.003**	ug/L	0.001	33	44	96	17	Standard
⎡>	**Tb**	**159**		ug/L			578710	595862	1	Standard
⎣	**Pb**	**208**	**0.004**	ug/L	0.000	6	110	324	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVC
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 01:12:25
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25570	28940	1	Standard
	Cl	**37**		ug/L			2742961	2940561	1	Standard
⌈>	**Sc**	**45**		ug/L			348480	366346	1	Standard
|	**Cr**	**52**	**51.277**	ug/L	0.563	1	14114	764866	2	Standard
⌊	**Cr**	**53**	**52.106**	ug/L	0.828	1	122	88083	1	Standard
⌈>	**Ge**	**72**		ug/L			15220	15633	4	KED
|	**Ni**	**60**	**48.075**	ug/L	1.671	3	7	35216	2	KED
|	**Ni**	**62**	**49.590**	ug/L	2.900	5	1	5947	5	KED
|	**Cu**	**63**	**47.122**	ug/L	1.140	2	27	104617	2	KED
|	**Cu**	**65**	**48.147**	ug/L	1.259	2	11	52195	1	KED
|	**Zn**	**66**	**49.440**	ug/L	1.321	2	19	13467	1	KED
|	**Zn**	**67**	**49.627**	ug/L	3.042	6	10	2286	4	KED
|	**As**	**75**	**52.214**	ug/L	1.998	3	5	7451	0	KED
⌊	**Se**	**78**	**53.799**	ug/L	1.292	2	8	796	2	KED
	Y	**89**		ug/L			218224	222458	2	Standard
	Kr	**83**		ug/L			58	71	33	Standard
⌈>	**In-1**	**115**		ug/L			4837	5136	0	KED
|	**Cd**	**111**	**48.197**	ug/L	0.707	1	1	8706	1	KED
⌊	**Cd**	**114**	**48.531**	ug/L	1.229	2	3	22272	2	KED
⌈>	**In**	**115**		ug/L			357855	375209	0	Standard
⌊	**Ag**	**107**	**42.662**	ug/L	0.704	1	44	695519	2	Standard
⌈>	**Tb**	**159**		ug/L			578710	614258	0	Standard
⌊	**Pb**	**208**	**45.325**	ug/L	0.408	0	110	2234492	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBC
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 01:19:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25570	26933	3	Standard
	Cl	**37**		ug/L			2742961	2816838	0	Standard
⌈>	**Sc**	**45**		ug/L			348480	364595	2	Standard
|	**Cr**	**52**	**0.001**	ug/L	0.023	1594	14114	14783	0	Standard
⌊	**Cr**	**53**	**-0.022**	ug/L	0.008	34	122	90	12	Standard
⌈>	**Ge**	**72**		ug/L			15220	16090	1	KED
|	**Ni**	**60**	**-0.004**	ug/L	0.006	157	7	5	94	KED
|	**Ni**	**62**	**0.020**	ug/L	0.023	118	1	4	65	KED
|	**Cu**	**63**	**0.003**	ug/L	0.004	107	27	37	22	KED
|	**Cu**	**65**	**-0.000**	ug/L	0.002	6913	11	12	24	KED
|	**Zn**	**66**	**0.001**	ug/L	0.028	5032	19	20	39	KED
|	**Zn**	**67**	**-0.092**	ug/L	0.063	68	10	6	45	KED
|	**As**	**75**	**-0.002**	ug/L	0.012	587	5	5	30	KED
⌊	**Se**	**78**	**0.228**	ug/L	0.176	77	8	12	20	KED
	Y	**89**		ug/L			218224	207281	1	Standard
	Kr	**83**		ug/L			58	60	27	Standard
⌈>	**In-1**	**115**		ug/L			4837	4997	3	KED
|	**Cd**	**111**	**0.001**	ug/L	0.005	363	1	1	50	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.005	2321	3	3	53	KED
⌈>	**In**	**115**		ug/L			357855	372316	0	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.000	13	44	87	5	Standard
⌈>	**Tb**	**159**		ug/L			578710	587246	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	52	110	176	18	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0035-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 01:24:25
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25570	39163	4	Standard
	Cl	37		ug/L			2742961	2812960	4	Standard
⌈>	Sc	45		ug/L			348480	381735	1	Standard
|	Cr	52	0.065	ug/L	0.027	41	14114	16460	3	Standard
⌊	Cr	53	-0.011	ug/L	0.006	53	122	115	10	Standard
⌈>	Ge	72		ug/L			15220	15878	1	KED
|	Ni	60	0.008	ug/L	0.005	66	7	13	28	KED
|	Ni	62	0.015	ug/L	0.041	279	1	3	132	KED
|	Cu	63	0.026	ug/L	0.003	11	27	87	5	KED
|	Cu	65	0.024	ug/L	0.004	16	11	38	10	KED
|	Zn	66	0.482	ug/L	0.073	15	19	153	12	KED
|	Zn	67	0.346	ug/L	0.146	42	10	26	24	KED
|	As	75	0.016	ug/L	0.025	157	5	7	45	KED
⌊	Se	78	0.194	ug/L	0.180	92	8	12	22	KED
	Y	89		ug/L			218224	225935	4	Standard
	Kr	83		ug/L			58	66	25	Standard
⌈>	In-1	115		ug/L			4837	5178	1	KED
|	Cd	111	0.010	ug/L	0.006	61	1	3	31	KED
⌊	Cd	114	-0.006	ug/L	0.002	40	3	1	94	KED
⌈>	In	115		ug/L			357855	384306	1	Standard
⌊	Ag	107	0.001	ug/L	0.001	110	44	67	33	Standard
⌈>	Tb	159		ug/L			578710	610345	1	Standard
⌊	Pb	208	0.006	ug/L	0.001	15	110	433	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0035-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 01:29:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25570	36470	0	Standard
	Cl	37		ug/L			2742961	2812644	2	Standard
⌈>	Sc	45		ug/L			348480	383311	3	Standard
|	Cr	52	26.979	ug/L	0.899	3	14114	428151	2	Standard
⌊	Cr	53	26.828	ug/L	0.625	2	122	47499	1	Standard
⌈>	Ge	72		ug/L			15220	16494	1	KED
|	Ni	60	24.628	ug/L	0.143	0	7	19052	1	KED
|	Ni	62	24.574	ug/L	1.507	6	1	3113	6	KED
|	Cu	63	24.641	ug/L	0.491	1	27	57772	3	KED
|	Cu	65	24.992	ug/L	0.299	1	11	28607	0	KED
|	Zn	66	78.159	ug/L	1.320	1	19	22463	1	KED
|	Zn	67	73.257	ug/L	2.927	3	10	3558	2	KED
|	As	75	25.347	ug/L	0.472	1	5	3822	1	KED
⌊	Se	78	82.670	ug/L	1.917	2	8	1287	2	KED
	Y	89		ug/L			218224	228532	3	Standard
	Kr	83		ug/L			58	74	21	Standard
⌈>	In-1	115		ug/L			4837	5278	1	KED
|	Cd	111	24.896	ug/L	1.205	4	1	4620	2	KED
⌊	Cd	114	24.439	ug/L	0.816	3	3	11526	1	KED
⌈>	In	115		ug/L			357855	390292	1	Standard
⌊	Ag	107	21.972	ug/L	0.813	3	44	372432	1	Standard
⌈>	Tb	159		ug/L			578710	620714	2	Standard
⌊	Pb	208	23.794	ug/L	0.539	2	110	1185087	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0035-SRL1
Sample Dil Factor: 100
Comments:
Sample Date/Time: Thursday, January 05, 2023 01:33:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25570	36012	2	Standard
	Cl	**37**		ug/L			2742961	2770656	2	Standard
⌈>	**Sc**	**45**		ug/L			348480	411109	0	Standard
|	**Cr**	**52**	**5.164**	ug/L	0.186	3	14114	101425	3	Standard
⌊	**Cr**	**53**	**5.303**	ug/L	0.215	4	122	10192	4	Standard
⌈>	**Ge**	**72**		ug/L			15220	16291	2	KED
|	**Ni**	**60**	**3.924**	ug/L	0.237	6	7	3002	3	KED
|	**Ni**	**62**	**3.869**	ug/L	0.270	6	1	485	3	KED
|	**Cu**	**63**	**15.753**	ug/L	0.503	3	27	36461	0	KED
|	**Cu**	**65**	**16.052**	ug/L	0.387	2	11	18148	2	KED
|	**Zn**	**66**	**36.783**	ug/L	1.769	4	19	10443	1	KED
|	**Zn**	**67**	**33.862**	ug/L	0.587	1	10	1630	1	KED
|	**As**	**75**	**0.879**	ug/L	0.034	3	5	136	1	KED
⌊	**Se**	**78**	**0.712**	ug/L	0.130	18	8	20	7	KED
	Y	**89**		ug/L			218224	292856	1	Standard
	Kr	**83**		ug/L			58	83	5	Standard
⌈>	**In-1**	**115**		ug/L			4837	5092	1	KED
|	**Cd**	**111**	**0.071**	ug/L	0.017	24	1	14	20	KED
⌊	**Cd**	**114**	**0.073**	ug/L	0.004	6	3	36	6	KED
⌈>	**In**	**115**		ug/L			357855	393196	2	Standard
⌊	**Ag**	**107**	**0.055**	ug/L	0.002	3	44	980	1	Standard
⌈>	**Tb**	**159**		ug/L			578710	627259	2	Standard
⌊	**Pb**	**208**	**9.620**	ug/L	0.175	1	110	484299	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0188-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 01:38:17
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25570	50339	1	Standard
	Cl	37		ug/L			2742961	2891261	5	Standard
>	Sc	45		ug/L			348480	548950	1	Standard
	Cr	52	19.516	ug/L	0.763	3	14114	449898	3	Standard
	Cr	53	20.205	ug/L	0.450	2	122	51292	1	Standard
>	Ge	72		ug/L			15220	16667	1	KED
	Ni	60	18.877	ug/L	0.350	1	7	14758	1	KED
	Ni	62	19.503	ug/L	0.872	4	1	2496	5	KED
	Cu	63	75.088	ug/L	1.813	2	27	177771	1	KED
	Cu	65	76.573	ug/L	0.897	1	11	88560	2	KED
	Zn	66	169.600	ug/L	3.021	1	19	49237	2	KED
	Zn	67	169.391	ug/L	2.071	1	10	8302	1	KED
	As	75	4.326	ug/L	0.239	5	5	664	5	KED
	Se	78	2.616	ug/L	0.490	18	8	50	15	KED
	Y	89		ug/L			218224	567036	2	Standard
	Kr	83		ug/L			58	204	13	Standard
>	In-1	115		ug/L			4837	5195	0	KED
	Cd	111	0.381	ug/L	0.035	9	1	71	9	KED
	Cd	114	0.321	ug/L	0.035	11	3	152	10	KED
>	In	115		ug/L			357855	387223	1	Standard
	Ag	107	0.255	ug/L	0.009	3	44	4341	3	Standard
>	Tb	159		ug/L			578710	654312	1	Standard
	Pb	208	45.835	ug/L	0.698	1	110	2406627	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0035-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 01:42:55
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			25570	44010	3	Standard
Cl	37		ug/L			2742961	2930075	1	Standard
Sc	45		ug/L			348480	551334	2	Standard
Cr	52	19.723	ug/L	0.438	2	14114	456334	0	Standard
Cr	53	20.397	ug/L	0.344	1	122	52012	2	Standard
Ge	72		ug/L			15220	16179	2	KED
Ni	60	19.723	ug/L	0.582	2	7	14962	1	KED
Ni	62	20.021	ug/L	1.040	5	1	2485	3	KED
Cu	63	73.815	ug/L	3.438	4	27	169551	2	KED
Cu	65	76.661	ug/L	2.028	2	11	86025	1	KED
Zn	66	176.801	ug/L	6.240	3	19	49795	1	KED
Zn	67	171.628	ug/L	6.044	3	10	8161	1	KED
As	75	6.106	ug/L	0.097	1	5	907	0	KED
Se	78	2.482	ug/L	0.212	8	8	46	4	KED
Y	89		ug/L			218224	582367	1	Standard
Kr	83		ug/L			58	200	6	Standard
In-1	115		ug/L			4837	5107	1	KED
Cd	111	0.378	ug/L	0.008	2	1	69	3	KED
Cd	114	0.359	ug/L	0.034	9	3	167	11	KED
In	115		ug/L			357855	397105	1	Standard
Ag	107	0.250	ug/L	0.009	3	44	4365	4	Standard
Tb	159		ug/L			578710	662603	2	Standard
Pb	208	48.828	ug/L	1.241	2	110	2595891	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0035-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 01:47:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			25570	42249	4	Standard
Cl	37		ug/L			2742961	2936797	2	Standard
> Sc	45		ug/L			348480	555657	2	Standard
Cr	52	37.914	ug/L	0.134	0	14114	863634	3	Standard
Cr	53	38.697	ug/L	1.326	3	122	99222	1	Standard
> Ge	72		ug/L			15220	16565	0	KED
Ni	60	42.078	ug/L	1.142	2	7	32685	2	KED
Ni	62	42.285	ug/L	0.872	2	1	5376	1	KED
Cu	63	97.452	ug/L	3.341	3	27	229313	2	KED
Cu	65	95.982	ug/L	2.413	2	11	110308	2	KED
Zn	66	258.770	ug/L	7.563	2	19	74649	2	KED
Zn	67	254.265	ug/L	3.494	1	10	12381	1	KED
As	75	27.029	ug/L	0.656	2	5	4093	1	KED
Se	78	76.045	ug/L	0.420	0	8	1189	0	KED
Y	89		ug/L			218224	574298	2	Standard
Kr	83		ug/L			58	211	8	Standard
> In-1	115		ug/L			4837	5020	2	KED
Cd	111	25.217	ug/L	0.514	2	1	4452	0	KED
Cd	114	24.583	ug/L	0.820	3	3	11025	1	KED
> In	115		ug/L			357855	391067	0	Standard
Ag	107	19.549	ug/L	0.488	2	44	332123	1	Standard
> Tb	159		ug/L			578710	669898	0	Standard
Pb	208	67.931	ug/L	0.808	1	110	3652242	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0035-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 01:52:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			25570	48048	1	Standard
Cl	37		ug/L			2742961	2941825	3	Standard
> Sc	45		ug/L			348480	565416	1	Standard
Cr	52	38.318	ug/L	0.489	1	14114	887968	2	Standard
Cr	53	38.932	ug/L	0.151	0	122	101634	1	Standard
> Ge	72		ug/L			15220	16897	1	KED
Ni	60	42.279	ug/L	0.760	1	7	33505	2	KED
Ni	62	43.007	ug/L	1.199	2	1	5576	1	KED
Cu	63	103.065	ug/L	0.748	0	27	247419	1	KED
Cu	65	106.361	ug/L	1.616	1	11	124684	1	KED
Zn	66	238.764	ug/L	2.763	1	19	70259	1	KED
Zn	67	231.705	ug/L	2.699	1	10	11508	0	KED
As	75	27.318	ug/L	0.339	1	5	4220	1	KED
Se	78	80.044	ug/L	2.344	2	8	1276	1	KED
Y	89		ug/L			218224	569963	1	Standard
Kr	83		ug/L			58	216	11	Standard
> In-1	115		ug/L			4837	5109	1	KED
Cd	111	25.304	ug/L	0.815	3	1	4547	1	KED
Cd	114	24.863	ug/L	0.852	3	3	11349	1	KED
> In	115		ug/L			357855	397397	2	Standard
Ag	107	19.429	ug/L	0.684	3	44	335290	1	Standard
> Tb	159		ug/L			578710	656585	0	Standard
Pb	208	67.139	ug/L	1.343	2	110	3537728	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0035-PS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 01:56:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25570	50807	1	Standard
	Cl	37		ug/L			2742961	2984028	0	Standard
>	Sc	45		ug/L			348480	538461	1	Standard
	Cr	52	37.840	ug/L	0.821	2	14114	835122	0	Standard
	Cr	53	38.469	ug/L	0.996	2	122	95632	2	Standard
>	Ge	72		ug/L			15220	16737	2	KED
	Ni	60	41.809	ug/L	0.885	2	7	32814	2	KED
	Ni	62	41.814	ug/L	0.975	2	1	5370	0	KED
	Cu	63	94.411	ug/L	1.329	1	27	224524	3	KED
	Cu	65	98.176	ug/L	1.066	1	11	113992	1	KED
	Zn	66	241.721	ug/L	8.378	3	19	70443	3	KED
	Zn	67	233.128	ug/L	4.000	1	10	11471	2	KED
	As	75	27.894	ug/L	0.297	1	5	4268	1	KED
	Se	78	78.968	ug/L	0.937	1	8	1248	2	KED
	Y	89		ug/L			218224	575342	2	Standard
	Kr	83		ug/L			58	188	10	Standard
>	In-1	115		ug/L			4837	5087	3	KED
	Cd	111	24.566	ug/L	0.901	3	1	4393	1	KED
	Cd	114	24.284	ug/L	0.615	2	3	11039	3	KED
>	In	115		ug/L			357855	390333	1	Standard
	Ag	107	20.515	ug/L	0.574	2	44	347811	0	Standard
>	Tb	159		ug/L			578710	653373	1	Standard
	Pb	208	66.451	ug/L	1.144	1	110	3484062	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0035-SRM1
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 05, 2023 02:01:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25570	36936	4	Standard
	Cl	37		ug/L			2742961	2840023	1	Standard
⌈>	Sc	45		ug/L			348480	412200	1	Standard
|	Cr	52	96.178	ug/L	1.036	1	14114	1599462	1	Standard
⌊	Cr	53	99.668	ug/L	1.886	1	122	189434	1	Standard
⌈>	Ge	72		ug/L			15220	16711	2	KED
|	Ni	60	145.799	ug/L	4.795	3	7	114207	2	KED
|	Ni	62	146.695	ug/L	3.154	2	1	18812	2	KED
|	Cu	63	57.628	ug/L	1.265	2	27	136812	2	KED
|	Cu	65	58.708	ug/L	1.400	2	11	68051	0	KED
|	Zn	66	66.866	ug/L	0.529	0	19	19474	1	KED
|	Zn	67	79.180	ug/L	1.234	1	10	3898	3	KED
|	As	75	37.036	ug/L	0.191	0	5	5656	1	KED
⌊	Se	78	60.128	ug/L	1.774	2	8	950	0	KED
	Y	89		ug/L			218224	344758	0	Standard
	Kr	83		ug/L			58	98	8	Standard
⌈>	In-1	115		ug/L			4837	5307	3	KED
|	Cd	111	67.567	ug/L	2.245	3	1	12604	0	KED
⌊	Cd	114	67.362	ug/L	2.254	3	3	31925	0	KED
⌈>	In	115		ug/L			357855	392029	1	Standard
⌊	Ag	107	20.042	ug/L	0.564	2	44	341276	0	Standard
⌈>	Tb	159		ug/L			578710	642233	0	Standard
⌊	Pb	208	104.066	ug/L	0.765	0	110	5363954	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLB
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 02:05:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25570	28778	1	Standard
	Cl	**37**		ug/L			2742961	2730651	2	Standard
⌈>	**Sc**	**45**		ug/L			348480	373112	1	Standard
|	**Cr**	**52**	**-0.031**	ug/L	0.019	59	14114	14648	2	Standard
⌊	**Cr**	**53**	**-0.025**	ug/L	0.005	21	122	88	9	Standard
⌈>	**Ge**	**72**		ug/L			15220	15629	1	KED
|	**Ni**	**60**	**-0.004**	ug/L	0.002	41	7	5	21	KED
|	**Ni**	**62**	**0.053**	ug/L	0.046	87	1	8	66	KED
|	**Cu**	**63**	**0.053**	ug/L	0.003	5	27	146	2	KED
|	**Cu**	**65**	**0.051**	ug/L	0.008	16	11	66	14	KED
|	**Zn**	**66**	**0.021**	ug/L	0.024	111	19	25	26	KED
|	**Zn**	**67**	**-0.145**	ug/L	0.040	27	10	3	50	KED
|	**As**	**75**	**0.003**	ug/L	0.017	695	5	5	40	KED
⌊	**Se**	**78**	**0.390**	ug/L	0.123	31	8	14	10	KED
	Y	**89**		ug/L			218224	220479	0	Standard
	Kr	**83**		ug/L			58	65	39	Standard
⌈>	**In-1**	**115**		ug/L			4837	5082	2	KED
|	**Cd**	**111**	**0.015**	ug/L	0.017	109	1	4	68	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.002	114	3	4	21	KED
⌈>	**In**	**115**		ug/L			357855	382465	0	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.001	26	44	93	12	Standard
⌈>	**Tb**	**159**		ug/L			578710	607461	2	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.001	16	110	323	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVD
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 02:10:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25570	27814	2	Standard
	Cl	**37**		ug/L			2742961	3019365	2	Standard
⌈>	**Sc**	**45**		ug/L			348480	377336	0	Standard
|	**Cr**	**52**	**50.357**	ug/L	0.105	0	14114	773900	1	Standard
⌊	**Cr**	**53**	**51.601**	ug/L	0.480	0	122	89861	1	Standard
⌈>	**Ge**	**72**		ug/L			15220	15580	1	KED
|	**Ni**	**60**	**47.656**	ug/L	1.586	3	7	34809	2	KED
|	**Ni**	**62**	**47.842**	ug/L	1.125	2	1	5720	1	KED
|	**Cu**	**63**	**47.323**	ug/L	1.247	2	27	104786	4	KED
|	**Cu**	**65**	**48.996**	ug/L	0.921	1	11	52960	0	KED
|	**Zn**	**66**	**49.832**	ug/L	1.627	3	19	13532	1	KED
|	**Zn**	**67**	**50.661**	ug/L	0.975	1	10	2328	2	KED
|	**As**	**75**	**51.945**	ug/L	1.255	2	5	7393	1	KED
⌊	**Se**	**78**	**54.536**	ug/L	0.696	1	8	805	0	KED
	Y	**89**		ug/L			218224	219782	1	Standard
	Kr	**83**		ug/L			58	86	14	Standard
⌈>	**In-1**	**115**		ug/L			4837	5019	3	KED
|	**Cd**	**111**	**49.613**	ug/L	1.228	2	1	8754	1	KED
⌊	**Cd**	**114**	**48.855**	ug/L	1.576	3	3	21898	0	KED
⌈>	**In**	**115**		ug/L			357855	388778	0	Standard
⌊	**Ag**	**107**	**42.440**	ug/L	0.796	1	44	716894	2	Standard
⌈>	**Tb**	**159**		ug/L			578710	623972	2	Standard
⌊	**Pb**	**208**	**45.488**	ug/L	1.044	2	110	2277389	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBD
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 02:17:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25570	27445	3	Standard
	Cl	**37**		ug/L			2742961	2778629	0	Standard
⌈>	**Sc**	**45**		ug/L			348480	357987	1	Standard
|	**Cr**	**52**	**0.018**	ug/L	0.004	22	14114	14750	1	Standard
⌊	**Cr**	**53**	**-0.019**	ug/L	0.008	42	122	93	13	Standard
⌈>	**Ge**	**72**		ug/L			15220	15760	2	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.007	239	7	5	88	KED
|	**Ni**	**62**	**0.015**	ug/L	0.016	105	1	3	50	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.004	410	27	26	39	KED
|	**Cu**	**65**	**0.002**	ug/L	0.004	185	11	13	28	KED
|	**Zn**	**66**	**0.011**	ug/L	0.007	63	19	22	8	KED
|	**Zn**	**67**	**-0.118**	ug/L	0.023	19	10	5	21	KED
|	**As**	**75**	**-0.008**	ug/L	0.005	67	5	4	16	KED
⌊	**Se**	**78**	**0.265**	ug/L	0.150	56	8	12	16	KED
	Y	**89**		ug/L			218224	215730	2	Standard
	Kr	**83**		ug/L			58	62	25	Standard
⌈>	**In-1**	**115**		ug/L			4837	5068	3	KED
|	**Cd**	**111**	**0.009**	ug/L	0.004	43	1	3	17	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.000	52	3	3	1	KED
⌈>	**In**	**115**		ug/L			357855	371547	0	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.000	3	44	93	1	Standard
⌈>	**Tb**	**159**		ug/L			578710	595466	2	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	11	110	198	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 02:22:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				28184	1	Standard
	Cl	**37**		ug/L				2752571	3	Standard
⎡>	**Sc**	**45**		ug/L				355422	2	Standard
⎢	**Cr**	**52**		ug/L				14569	2	Standard
⎣	**Cr**	**53**		ug/L				77	3	Standard
⎡>	**Ge**	**72**		ug/L				15567	1	KED
⎢	**Ni**	**60**		ug/L				5	33	KED
⎢	**Ni**	**62**		ug/L				2	43	KED
⎢	**Cu**	**63**		ug/L				34	20	KED
⎢	**Cu**	**65**		ug/L				12	17	KED
⎢	**Zn**	**66**		ug/L				22	22	KED
⎢	**Zn**	**67**		ug/L				6	62	KED
⎢	**As**	**75**		ug/L				6	29	KED
⎣	**Se**	**78**		ug/L				13	17	KED
	Y	**89**		ug/L				215387	3	Standard
	Kr	**83**		ug/L				67	7	Standard
⎡>	**In-1**	**115**		ug/L				5040	0	KED
⎢	**Cd**	**111**		ug/L				2	21	KED
⎣	**Cd**	**114**		ug/L				6	93	KED
⎡>	**In**	**115**		ug/L				372197	1	Standard
⎣	**Ag**	**107**		ug/L				43	28	Standard
⎡>	**Tb**	**159**		ug/L				591249	1	Standard
⎣	**Pb**	**208**		ug/L				143	20	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 02:27:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28184	27512	2	Standard
	Cl	**37**		ug/L			2752571	2847033	0	Standard
⌈>	**Sc**	**45**		ug/L			355422	366354	0	Standard
|	**Cr**	**52**	**51.167**	ug/L	1.695	3	14569	763495	3	Standard
⌊	**Cr**	**53**	**51.696**	ug/L	0.876	1	77	87357	2	Standard
⌈>	**Ge**	**72**		ug/L			15567	15449	0	KED
|	**Ni**	**60**	**48.054**	ug/L	0.332	0	5	34811	0	KED
|	**Ni**	**62**	**47.435**	ug/L	1.149	2	2	5625	2	KED
|	**Cu**	**63**	**47.331**	ug/L	0.458	0	34	103906	1	KED
|	**Cu**	**65**	**48.429**	ug/L	0.213	0	12	51918	0	KED
|	**Zn**	**66**	**49.703**	ug/L	1.468	2	22	13391	2	KED
|	**Zn**	**67**	**49.345**	ug/L	0.265	0	6	2245	0	KED
|	**As**	**75**	**51.759**	ug/L	0.937	1	6	7307	1	KED
⌊	**Se**	**78**	**52.686**	ug/L	0.548	1	13	776	0	KED
	Y	**89**		ug/L			215387	217191	3	Standard
	Kr	**83**		ug/L			67	71	19	Standard
⌈>	**In-1**	**115**		ug/L			5040	4997	4	KED
|	**Cd**	**111**	**48.876**	ug/L	1.817	3	2	8582	0	KED
⌊	**Cd**	**114**	**48.677**	ug/L	1.615	3	6	21719	1	KED
⌈>	**In**	**115**		ug/L			372197	384017	0	Standard
⌊	**Ag**	**107**	**41.708**	ug/L	0.628	1	43	695892	1	Standard
⌈>	**Tb**	**159**		ug/L			591249	622357	0	Standard
⌊	**Pb**	**208**	**44.558**	ug/L	0.642	1	143	2225570	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 02:34:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28184	28105	1	Standard
	Cl	**37**		ug/L			2752571	2787420	2	Standard
⌈>	**Sc**	**45**		ug/L			355422	356218	2	Standard
|	**Cr**	**52**	**0.028**	ug/L	0.031	112	14569	14989	1	Standard
⌊	**Cr**	**53**	**0.006**	ug/L	0.009	144	77	87	16	Standard
⌈>	**Ge**	**72**		ug/L			15567	15680	3	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.000	6	5	3	0	KED
|	**Ni**	**62**	**-0.000**	ug/L	0.018	8078	2	2	86	KED
|	**Cu**	**63**	**-0.003**	ug/L	0.003	98	34	28	17	KED
|	**Cu**	**65**	**0.005**	ug/L	0.003	63	12	17	16	KED
|	**Zn**	**66**	**-0.001**	ug/L	0.033	3124	22	22	41	KED
|	**Zn**	**67**	**0.001**	ug/L	0.088	14615	6	6	62	KED
|	**As**	**75**	**-0.008**	ug/L	0.008	103	6	5	22	KED
⌊	**Se**	**78**	**-0.027**	ug/L	0.074	270	13	13	9	KED
	Y	**89**		ug/L			215387	217513	1	Standard
	Kr	**83**		ug/L			67	57	13	Standard
⌈>	**In-1**	**115**		ug/L			5040	5099	2	KED
|	**Cd**	**111**	**0.002**	ug/L	0.011	643	2	2	66	KED
⌊	**Cd**	**114**	**-0.011**	ug/L	0.002	21	6	1	90	KED
⌈>	**In**	**115**		ug/L			372197	373022	3	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.000	23	43	73	11	Standard
⌈>	**Tb**	**159**		ug/L			591249	594776	1	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	13	143	164	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 02:39:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28184	36522	1	Standard
	Cl	37		ug/L			2752571	2832122	0	Standard
⌈>	Sc	45		ug/L			355422	382403	2	Standard
|	Cr	52	-0.015	ug/L	0.010	68	14569	15453	2	Standard
⌊	Cr	53	0.009	ug/L	0.008	81	77	100	11	Standard
⌈>	Ge	72		ug/L			15567	16148	3	KED
|	Ni	60	0.006	ug/L	0.009	135	5	10	61	KED
|	Ni	62	-0.001	ug/L	0.008	981	2	2	43	KED
|	Cu	63	0.013	ug/L	0.003	24	34	66	14	KED
|	Cu	65	0.014	ug/L	0.008	55	12	29	32	KED
|	Zn	66	0.467	ug/L	0.043	9	22	154	8	KED
|	Zn	67	0.514	ug/L	0.132	25	6	31	23	KED
|	As	75	-0.010	ug/L	0.013	127	6	5	31	KED
⌊	Se	78	-0.074	ug/L	0.085	115	13	13	12	KED
	Y	89		ug/L			215387	221800	1	Standard
	Kr	83		ug/L			67	60	20	Standard
⌈>	In-1	115		ug/L			5040	5097	3	KED
|	Cd	111	-0.002	ug/L	0.003	188	2	2	24	KED
⌊	Cd	114	-0.007	ug/L	0.003	37	6	3	39	KED
⌈>	In	115		ug/L			372197	397420	0	Standard
⌊	Ag	107	0.001	ug/L	0.001	69	43	67	21	Standard
⌈>	Tb	159		ug/L			591249	616138	2	Standard
⌊	Pb	208	0.006	ug/L	0.001	12	143	424	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 02:43:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28184	36691	2	Standard
	Cl	37		ug/L			2752571	2829422	2	Standard
⎡>	Sc	45		ug/L			355422	383566	0	Standard
⎢	Cr	52	26.170	ug/L	1.104	4	14569	416398	3	Standard
⎣	Cr	53	26.920	ug/L	0.261	0	77	47663	0	Standard
⎡>	Ge	72		ug/L			15567	16600	3	KED
⎢	Ni	60	24.396	ug/L	0.623	2	5	18985	2	KED
⎢	Ni	62	24.193	ug/L	1.048	4	2	3081	1	KED
⎢	Cu	63	24.372	ug/L	0.090	0	34	57502	2	KED
⎢	Cu	65	24.931	ug/L	0.236	0	12	28719	2	KED
⎢	Zn	66	78.909	ug/L	2.277	2	22	22820	1	KED
⎢	Zn	67	75.142	ug/L	3.540	4	6	3666	1	KED
⎢	As	75	25.685	ug/L	0.409	1	6	3899	2	KED
⎣	Se	78	83.524	ug/L	2.268	2	13	1313	1	KED
	Y	89		ug/L			215387	225187	2	Standard
	Kr	83		ug/L			67	75	8	Standard
⎡>	In-1	115		ug/L			5040	5373	0	KED
⎢	Cd	111	24.751	ug/L	0.363	1	2	4679	1	KED
⎣	Cd	114	24.331	ug/L	0.723	2	6	11686	2	KED
⎡>	In	115		ug/L			372197	388329	0	Standard
⎣	Ag	107	22.186	ug/L	0.362	1	43	374360	2	Standard
⎡>	Tb	159		ug/L			591249	621939	2	Standard
⎣	Pb	208	23.924	ug/L	0.847	3	143	1193718	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-SRL1
Sample Dil Factor: 100
Comments:
Sample Date/Time: Thursday, January 05, 2023 02:48:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28184	32459	3	Standard
	Cl	**37**		ug/L			2752571	2865089	3	Standard
⌈>	**Sc**	**45**		ug/L			355422	400661	4	Standard
|	**Cr**	**52**	**2.338**	ug/L	0.087	3	14569	53781	1	Standard
⌊	**Cr**	**53**	**2.486**	ug/L	0.036	1	77	4676	2	Standard
⌈>	**Ge**	**72**		ug/L			15567	16581	1	KED
|	**Ni**	**60**	**2.845**	ug/L	0.095	3	5	2217	3	KED
|	**Ni**	**62**	**2.744**	ug/L	0.123	4	2	351	3	KED
|	**Cu**	**63**	**5.002**	ug/L	0.145	2	34	11818	3	KED
|	**Cu**	**65**	**5.054**	ug/L	0.215	4	12	5825	3	KED
|	**Zn**	**66**	**20.165**	ug/L	0.430	2	22	5844	0	KED
|	**Zn**	**67**	**19.352**	ug/L	1.434	7	6	948	6	KED
|	**As**	**75**	**0.918**	ug/L	0.060	6	6	145	5	KED
⌊	**Se**	**78**	**0.197**	ug/L	0.083	42	13	17	8	KED
	Y	**89**		ug/L			215387	284547	0	Standard
	Kr	**83**		ug/L			67	77	9	Standard
⌈>	**In-1**	**115**		ug/L			5040	5278	1	KED
|	**Cd**	**111**	**0.045**	ug/L	0.023	51	2	11	40	KED
⌊	**Cd**	**114**	**0.016**	ug/L	0.008	49	6	14	26	KED
⌈>	**In**	**115**		ug/L			372197	396228	1	Standard
⌊	**Ag**	**107**	**0.341**	ug/L	0.007	2	43	5923	3	Standard
⌈>	**Tb**	**159**		ug/L			591249	634680	2	Standard
⌊	**Pb**	**208**	**2.103**	ug/L	0.061	2	143	107247	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0188-20
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 02:53:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28184	35766	1	Standard
	Cl	37		ug/L			2752571	2899377	2	Standard
>	Sc	45		ug/L			355422	487417	1	Standard
	Cr	52	9.804	ug/L	0.229	2	14569	210746	1	Standard
	Cr	53	10.225	ug/L	0.269	2	77	23070	2	Standard
>	Ge	72		ug/L			15567	16418	2	KED
	Ni	60	13.893	ug/L	0.089	0	5	10699	1	KED
	Ni	62	13.976	ug/L	0.759	5	2	1762	4	KED
	Cu	63	24.249	ug/L	0.441	1	34	56590	2	KED
	Cu	65	25.082	ug/L	0.174	0	12	28580	1	KED
	Zn	66	93.228	ug/L	1.384	1	22	26671	1	KED
	Zn	67	93.912	ug/L	0.997	1	6	4535	2	KED
	As	75	4.115	ug/L	0.051	1	6	623	2	KED
	Se	78	1.938	ug/L	0.199	10	13	44	8	KED
	Y	89		ug/L			215387	505737	3	Standard
	Kr	83		ug/L			67	139	3	Standard
>	In-1	115		ug/L			5040	5266	2	KED
	Cd	111	0.114	ug/L	0.008	7	2	23	4	KED
	Cd	114	0.116	ug/L	0.028	23	6	61	22	KED
>	In	115		ug/L			372197	389088	0	Standard
	Ag	107	1.742	ug/L	0.007	0	43	29496	0	Standard
>	Tb	159		ug/L			591249	653118	1	Standard
	Pb	208	10.090	ug/L	0.066	0	143	529041	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 02:57:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28184	40102	6	Standard
Cl	37		ug/L			2752571	2843944	3	Standard
Sc	45		ug/L			355422	481459	0	Standard
Cr	52	10.134	ug/L	0.410	4	14569	214527	3	Standard
Cr	53	10.388	ug/L	0.310	2	77	23150	2	Standard
Ge	72		ug/L			15567	16629	3	KED
Ni	60	12.949	ug/L	0.316	2	5	10096	0	KED
Ni	62	12.444	ug/L	0.495	3	2	1589	1	KED
Cu	63	20.691	ug/L	0.718	3	34	48877	1	KED
Cu	65	21.446	ug/L	0.645	3	12	24741	1	KED
Zn	66	81.871	ug/L	0.788	0	22	23727	3	KED
Zn	67	82.016	ug/L	1.856	2	6	4010	1	KED
As	75	3.107	ug/L	0.130	4	6	478	2	KED
Se	78	1.612	ug/L	0.337	20	13	40	16	KED
Y	89		ug/L			215387	496435	3	Standard
Kr	83		ug/L			67	142	10	Standard
In-1	115		ug/L			5040	5069	3	KED
Cd	111	0.118	ug/L	0.041	34	2	23	34	KED
Cd	114	0.116	ug/L	0.025	21	6	59	22	KED
In	115		ug/L			372197	399269	1	Standard
Ag	107	0.949	ug/L	0.013	1	43	16506	0	Standard
Tb	159		ug/L			591249	654841	0	Standard
Pb	208	8.538	ug/L	0.057	0	143	448898	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 03:02:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28184	35211	5	Standard
Cl	37		ug/L			2752571	2859358	1	Standard
> Sc	45		ug/L			355422	485958	2	Standard
Cr	52	31.516	ug/L	0.547	1	14569	631351	2	Standard
Cr	53	32.083	ug/L	0.819	2	77	71922	0	Standard
> Ge	72		ug/L			15567	16426	1	KED
Ni	60	38.800	ug/L	0.578	1	5	29890	3	KED
Ni	62	38.548	ug/L	1.407	3	2	4861	3	KED
Cu	63	51.968	ug/L	0.268	0	34	121300	2	KED
Cu	65	52.596	ug/L	1.532	2	12	59945	3	KED
Zn	66	165.245	ug/L	3.785	2	22	47269	0	KED
Zn	67	159.933	ug/L	3.524	2	6	7720	0	KED
As	75	26.456	ug/L	0.281	1	6	3974	1	KED
Se	78	80.377	ug/L	1.518	1	13	1251	2	KED
Y	89		ug/L			215387	528909	0	Standard
Kr	83		ug/L			67	137	4	Standard
> In-1	115		ug/L			5040	5038	4	KED
Cd	111	25.541	ug/L	0.463	1	2	4526	2	KED
Cd	114	25.260	ug/L	0.829	3	6	11367	1	KED
> In	115		ug/L			372197	384207	0	Standard
Ag	107	21.609	ug/L	0.491	2	43	360693	1	Standard
> Tb	159		ug/L			591249	661853	1	Standard
Pb	208	32.523	ug/L	0.563	1	143	1727614	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 03:06:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28184	38916	2	Standard
Cl	37		ug/L			2752571	2903155	4	Standard
Sc	45		ug/L			355422	487887	2	Standard
Cr	52	31.230	ug/L	0.302	0	14569	628372	3	Standard
Cr	53	31.799	ug/L	0.713	2	77	71593	2	Standard
Ge	72		ug/L			15567	16717	3	KED
Ni	60	38.337	ug/L	1.058	2	5	30040	2	KED
Ni	62	38.119	ug/L	0.841	2	2	4890	1	KED
Cu	63	47.274	ug/L	0.212	0	34	112302	3	KED
Cu	65	47.682	ug/L	1.535	3	12	55289	2	KED
Zn	66	203.142	ug/L	8.267	4	22	59101	1	KED
Zn	67	197.541	ug/L	9.359	4	6	9696	2	KED
As	75	26.632	ug/L	0.640	2	6	4070	0	KED
Se	78	79.070	ug/L	1.334	1	13	1253	2	KED
Y	89		ug/L			215387	513607	1	Standard
Kr	83		ug/L			67	153	3	Standard
In-1	115		ug/L			5040	5190	2	KED
Cd	111	24.979	ug/L	0.615	2	2	4560	0	KED
Cd	114	24.521	ug/L	1.200	4	6	11371	3	KED
In	115		ug/L			372197	392153	0	Standard
Ag	107	21.858	ug/L	0.344	1	43	372431	1	Standard
Tb	159		ug/L			591249	661166	1	Standard
Pb	208	30.601	ug/L	0.648	2	143	1623609	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-PS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 03:11:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28184	36710	3	Standard
	Cl	**37**		ug/L			2752571	2834076	3	Standard
⌈>	**Sc**	**45**		ug/L			355422	490142	4	Standard
|	**Cr**	**52**	**29.957**	ug/L	0.965	3	14569	605735	1	Standard
⌊	**Cr**	**53**	**30.261**	ug/L	0.955	3	77	68396	1	Standard
⌈>	**Ge**	**72**		ug/L			15567	16518	1	KED
|	**Ni**	**60**	**36.822**	ug/L	1.122	3	5	28510	1	KED
|	**Ni**	**62**	**36.207**	ug/L	1.784	4	2	4589	3	KED
|	**Cu**	**63**	**46.243**	ug/L	0.733	1	34	108543	2	KED
|	**Cu**	**65**	**46.913**	ug/L	0.782	1	12	53761	0	KED
|	**Zn**	**66**	**161.870**	ug/L	1.382	0	22	46576	1	KED
|	**Zn**	**67**	**158.705**	ug/L	5.474	3	6	7703	2	KED
|	**As**	**75**	**28.135**	ug/L	0.515	1	6	4249	1	KED
⌊	**Se**	**78**	**78.336**	ug/L	0.073	0	13	1227	1	KED
	Y	**89**		ug/L			215387	513513	0	Standard
	Kr	**83**		ug/L			67	137	13	Standard
⌈>	**In-1**	**115**		ug/L			5040	5169	1	KED
|	**Cd**	**111**	**23.896**	ug/L	0.353	1	2	4346	1	KED
⌊	**Cd**	**114**	**23.819**	ug/L	0.188	0	6	11006	1	KED
⌈>	**In**	**115**		ug/L			372197	390540	2	Standard
⌊	**Ag**	**107**	**22.533**	ug/L	0.180	0	43	382315	1	Standard
⌈>	**Tb**	**159**		ug/L			591249	657058	2	Standard
⌊	**Pb**	**208**	**31.706**	ug/L	0.862	2	143	1671410	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-SRM1
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 05, 2023 03:16:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28184	35259	3	Standard
	Cl	37		ug/L			2752571	2858252	3	Standard
>	Sc	45		ug/L			355422	419390	1	Standard
	Cr	52	95.151	ug/L	1.207	1	14569	1610215	0	Standard
	Cr	53	96.482	ug/L	2.656	2	77	186515	1	Standard
>	Ge	72		ug/L			15567	16504	0	KED
	Ni	60	145.474	ug/L	3.476	2	5	112561	2	KED
	Ni	62	145.142	ug/L	2.476	1	2	18384	2	KED
	Cu	63	59.221	ug/L	0.945	1	34	138865	1	KED
	Cu	65	60.890	ug/L	0.782	1	12	69728	1	KED
	Zn	66	68.468	ug/L	1.053	1	22	19699	2	KED
	Zn	67	78.045	ug/L	0.403	0	6	3789	1	KED
	As	75	37.891	ug/L	0.547	1	6	5716	1	KED
	Se	78	61.359	ug/L	0.599	0	13	963	0	KED
	Y	89		ug/L			215387	350421	1	Standard
	Kr	83		ug/L			67	96	7	Standard
>	In-1	115		ug/L			5040	5068	0	KED
	Cd	111	70.580	ug/L	1.076	1	2	12582	1	KED
	Cd	114	70.857	ug/L	0.243	0	6	32092	0	KED
>	In	115		ug/L			372197	389582	2	Standard
	Ag	107	20.548	ug/L	0.855	4	43	347695	3	Standard
>	Tb	159		ug/L			591249	655831	1	Standard
	Pb	208	106.183	ug/L	3.734	3	143	5586938	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLC
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 03:20:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28184	29637	1	Standard
	Cl	**37**		ug/L			2752571	2733883	1	Standard
⌈>	**Sc**	**45**		ug/L			355422	365785	1	Standard
|	**Cr**	**52**	**0.031**	ug/L	0.041	130	14569	15453	4	Standard
⌊	**Cr**	**53**	**0.007**	ug/L	0.007	102	77	91	12	Standard
⌈>	**Ge**	**72**		ug/L			15567	15912	3	KED
|	**Ni**	**60**	**0.003**	ug/L	0.004	121	5	8	35	KED
|	**Ni**	**62**	**0.026**	ug/L	0.017	64	2	5	33	KED
|	**Cu**	**63**	**0.044**	ug/L	0.006	14	34	133	13	KED
|	**Cu**	**65**	**0.062**	ug/L	0.016	25	12	81	24	KED
|	**Zn**	**66**	**0.014**	ug/L	0.007	48	22	27	4	KED
|	**Zn**	**67**	**-0.043**	ug/L	0.065	151	6	4	65	KED
|	**As**	**75**	**-0.003**	ug/L	0.023	740	6	6	53	KED
⌊	**Se**	**78**	**0.015**	ug/L	0.129	866	13	14	10	KED
	Y	**89**		ug/L			215387	226551	2	Standard
	Kr	**83**		ug/L			67	67	18	Standard
⌈>	**In-1**	**115**		ug/L			5040	5020	1	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.014	817	2	2	107	KED
⌊	**Cd**	**114**	**-0.010**	ug/L	0.000	1	6	1	3	KED
⌈>	**In**	**115**		ug/L			372197	383660	0	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.001	38	43	97	20	Standard
⌈>	**Tb**	**159**		ug/L			591249	604632	1	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	12	143	330	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVF
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 03:25:21
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28184	28872	4	Standard
	Cl	**37**		ug/L			2752571	2951162	2	Standard
>	**Sc**	**45**		ug/L			355422	378580	2	Standard
	Cr	**52**	**51.180**	ug/L	1.408	2	14569	788737	1	Standard
	Cr	**53**	**52.793**	ug/L	1.765	3	77	92128	1	Standard
>	**Ge**	**72**		ug/L			15567	15985	3	KED
	Ni	**60**	**47.780**	ug/L	2.504	5	5	35775	2	KED
	Ni	**62**	**47.367**	ug/L	2.578	5	2	5806	2	KED
	Cu	**63**	**48.143**	ug/L	1.762	3	34	109287	2	KED
	Cu	**65**	**48.316**	ug/L	1.440	2	12	53565	1	KED
	Zn	**66**	**48.932**	ug/L	1.689	3	22	13632	0	KED
	Zn	**67**	**52.020**	ug/L	1.749	3	6	2447	1	KED
	As	**75**	**51.766**	ug/L	1.186	2	6	7558	0	KED
	Se	**78**	**55.133**	ug/L	2.073	3	13	839	2	KED
	Y	**89**		ug/L			215387	222793	1	Standard
	Kr	**83**		ug/L			67	71	20	Standard
>	**In-1**	**115**		ug/L			5040	5051	1	KED
	Cd	**111**	**50.755**	ug/L	1.458	2	2	9016	1	KED
	Cd	**114**	**50.178**	ug/L	0.219	0	6	22652	1	KED
>	**In**	**115**		ug/L			372197	377085	0	Standard
	Ag	**107**	**43.282**	ug/L	0.478	1	43	709102	1	Standard
>	**Tb**	**159**		ug/L			591249	628556	0	Standard
	Pb	**208**	**45.781**	ug/L	0.199	0	143	2309691	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBF
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 03:32:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28184	27583	1	Standard
	Cl	**37**		ug/L			2752571	2698331	3	Standard
⌈>	**Sc**	**45**		ug/L			355422	371916	0	Standard
|	**Cr**	**52**	**0.004**	ug/L	0.012	271	14569	15310	1	Standard
⌊	**Cr**	**53**	**0.005**	ug/L	0.009	178	77	89	16	Standard
⌈>	**Ge**	**72**		ug/L			15567	15499	2	KED
|	**Ni**	**60**	**-0.002**	ug/L	0.003	167	5	4	49	KED
|	**Ni**	**62**	**0.011**	ug/L	0.016	148	2	3	50	KED
|	**Cu**	**63**	**-0.006**	ug/L	0.003	48	34	21	26	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.006	288	12	10	65	KED
|	**Zn**	**66**	**0.005**	ug/L	0.008	160	22	24	9	KED
|	**Zn**	**67**	**0.014**	ug/L	0.062	448	6	6	41	KED
|	**As**	**75**	**-0.005**	ug/L	0.015	296	6	5	36	KED
⌊	**Se**	**78**	**-0.082**	ug/L	0.020	24	13	12	3	KED
	Y	**89**		ug/L			215387	222968	1	Standard
	Kr	**83**		ug/L			67	59	30	Standard
⌈>	**In-1**	**115**		ug/L			5040	4843	11	KED
|	**Cd**	**111**	**0.004**	ug/L	0.010	285	2	3	62	KED
⌊	**Cd**	**114**	**-0.011**	ug/L	0.002	21	6	1	86	KED
⌈>	**In**	**115**		ug/L			372197	382670	1	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.000	18	43	73	5	Standard
⌈>	**Tb**	**159**		ug/L			591249	606133	1	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	91	143	165	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0081-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 03:37:21
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28184	39479	3	Standard
	Cl	37		ug/L			2752571	2882111	1	Standard
⌈>	Sc	45		ug/L			355422	382285	2	Standard
|	Cr	52	0.025	ug/L	0.023	93	14569	16048	2	Standard
⌊	Cr	53	0.013	ug/L	0.009	69	77	106	16	Standard
⌈>	Ge	72		ug/L			15567	16286	0	KED
|	Ni	60	0.002	ug/L	0.002	114	5	7	25	KED
|	Ni	62	0.014	ug/L	0.017	122	2	4	49	KED
|	Cu	63	0.010	ug/L	0.006	58	34	59	22	KED
|	Cu	65	0.019	ug/L	0.006	32	12	34	20	KED
|	Zn	66	0.518	ug/L	0.051	9	22	170	8	KED
|	Zn	67	0.419	ug/L	0.083	19	6	26	14	KED
|	As	75	-0.007	ug/L	0.003	40	6	5	8	KED
⌊	Se	78	-0.173	ug/L	0.210	121	13	11	27	KED
	Y	89		ug/L			215387	218557	4	Standard
	Kr	83		ug/L			67	62	15	Standard
⌈>	In-1	115		ug/L			5040	5242	2	KED
|	Cd	111	-0.002	ug/L	0.003	138	2	2	24	KED
⌊	Cd	114	-0.000	ug/L	0.006	1195	6	6	46	KED
⌈>	In	115		ug/L			372197	386010	2	Standard
⌊	Ag	107	0.001	ug/L	0.000	26	43	69	11	Standard
⌈>	Tb	159		ug/L			591249	609625	2	Standard
⌊	Pb	208	0.005	ug/L	0.001	16	143	413	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0081-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 03:41:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28184	35625	2	Standard
	Cl	37		ug/L			2752571	2800290	1	Standard
⌈>	Sc	45		ug/L			355422	381604	2	Standard
|	Cr	52	26.244	ug/L	0.273	1	14569	415437	1	Standard
⌊	Cr	53	27.200	ug/L	0.384	1	77	47903	0	Standard
⌈>	Ge	72		ug/L			15567	16724	1	KED
|	Ni	60	23.926	ug/L	0.426	1	5	18767	2	KED
|	Ni	62	23.617	ug/L	0.617	2	2	3033	2	KED
|	Cu	63	24.074	ug/L	0.359	1	34	57221	0	KED
|	Cu	65	24.974	ug/L	0.553	2	12	28995	3	KED
|	Zn	66	76.884	ug/L	0.288	0	22	22413	1	KED
|	Zn	67	71.628	ug/L	1.622	2	6	3524	0	KED
|	As	75	25.392	ug/L	0.154	0	6	3884	1	KED
⌊	Se	78	82.650	ug/L	1.748	2	13	1310	3	KED
	Y	89		ug/L			215387	225620	2	Standard
	Kr	83		ug/L			67	66	10	Standard
⌈>	In-1	115		ug/L			5040	5434	1	KED
|	Cd	111	25.119	ug/L	0.285	1	2	4803	1	KED
⌊	Cd	114	24.412	ug/L	0.333	1	6	11859	0	KED
⌈>	In	115		ug/L			372197	393871	2	Standard
⌊	Ag	107	21.812	ug/L	0.524	2	43	373155	0	Standard
⌈>	Tb	159		ug/L			591249	624702	1	Standard
⌊	Pb	208	24.132	ug/L	0.488	2	143	1209831	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0081-SRL1
Sample Dil Factor: 100
Comments:
Sample Date/Time: Thursday, January 05, 2023 03:46:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28184	34767	2	Standard
	Cl	**37**		ug/L			2752571	2730134	3	Standard
⌈>	**Sc**	**45**		ug/L			355422	419076	2	Standard
|	**Cr**	**52**	**4.482**	ug/L	0.035	0	14569	92166	2	Standard
⌊	**Cr**	**53**	**4.723**	ug/L	0.104	2	77	9212	3	Standard
⌈>	**Ge**	**72**		ug/L			15567	16199	1	KED
|	**Ni**	**60**	**4.303**	ug/L	0.086	2	5	3274	3	KED
|	**Ni**	**62**	**4.488**	ug/L	0.107	2	2	560	3	KED
|	**Cu**	**63**	**6.011**	ug/L	0.070	1	34	13865	1	KED
|	**Cu**	**65**	**6.045**	ug/L	0.116	1	12	6805	1	KED
|	**Zn**	**66**	**18.712**	ug/L	0.386	2	22	5300	1	KED
|	**Zn**	**67**	**20.115**	ug/L	0.448	2	6	963	3	KED
|	**As**	**75**	**0.727**	ug/L	0.032	4	6	114	4	KED
⌊	**Se**	**78**	**0.382**	ug/L	0.200	52	13	20	13	KED
	Y	**89**		ug/L			215387	296065	2	Standard
	Kr	**83**		ug/L			67	92	7	Standard
⌈>	**In-1**	**115**		ug/L			5040	5191	1	KED
|	**Cd**	**111**	**0.050**	ug/L	0.016	31	2	11	26	KED
⌊	**Cd**	**114**	**0.036**	ug/L	0.017	46	6	22	34	KED
⌈>	**In**	**115**		ug/L			372197	397670	2	Standard
⌊	**Ag**	**107**	**0.043**	ug/L	0.005	11	43	787	8	Standard
⌈>	**Tb**	**159**		ug/L			591249	639797	1	Standard
⌊	**Pb**	**208**	**3.860**	ug/L	0.070	1	143	198332	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0188-55
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 03:51:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28184	43386	3	Standard
Cl	37		ug/L			2752571	2938708	1	Standard
> Sc	45		ug/L			355422	554940	1	Standard
Cr	52	17.254	ug/L	0.067	0	14569	405026	1	Standard
Cr	53	18.100	ug/L	0.305	1	77	46411	2	Standard
> Ge	72		ug/L			15567	16603	1	KED
Ni	60	20.610	ug/L	0.110	0	5	16048	0	KED
Ni	62	20.881	ug/L	0.102	0	2	2663	1	KED
Cu	63	28.523	ug/L	0.209	0	34	67306	1	KED
Cu	65	28.995	ug/L	0.557	1	12	33411	2	KED
Zn	66	86.738	ug/L	1.309	1	22	25095	0	KED
Zn	67	92.919	ug/L	0.704	0	6	4537	1	KED
As	75	3.341	ug/L	0.069	2	6	513	1	KED
Se	78	1.984	ug/L	0.508	25	13	45	17	KED
Y	89		ug/L			215387	561974	2	Standard
Kr	83		ug/L			67	214	11	Standard
> In-1	115		ug/L			5040	5185	2	KED
Cd	111	0.226	ug/L	0.025	11	2	43	8	KED
Cd	114	0.193	ug/L	0.017	8	6	95	6	KED
> In	115		ug/L			372197	390436	1	Standard
Ag	107	0.198	ug/L	0.005	2	43	3409	3	Standard
> Tb	159		ug/L			591249	666087	1	Standard
Pb	208	18.492	ug/L	0.461	2	143	988422	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0081-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 03:55:50
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28184	42904	3	Standard
Cl	37		ug/L			2752571	2929917	2	Standard
> Sc	45		ug/L			355422	547123	3	Standard
Cr	52	17.173	ug/L	0.027	0	14569	397549	3	Standard
Cr	53	17.482	ug/L	0.195	1	77	44206	4	Standard
> Ge	72		ug/L			15567	16430	3	KED
Ni	60	20.385	ug/L	0.589	2	5	15699	0	KED
Ni	62	20.437	ug/L	0.523	2	2	2579	4	KED
Cu	63	27.746	ug/L	0.514	1	34	64768	1	KED
Cu	65	28.450	ug/L	0.854	3	12	32425	2	KED
Zn	66	88.587	ug/L	1.428	1	22	25358	1	KED
Zn	67	93.385	ug/L	1.437	1	6	4512	3	KED
As	75	3.186	ug/L	0.039	1	6	484	2	KED
Se	78	2.034	ug/L	0.293	14	13	46	12	KED
Y	89		ug/L			215387	561275	2	Standard
Kr	83		ug/L			67	220	0	Standard
> In-1	115		ug/L			5040	4984	1	KED
Cd	111	0.263	ug/L	0.041	15	2	48	13	KED
Cd	114	0.246	ug/L	0.019	7	6	115	5	KED
> In	115		ug/L			372197	388104	2	Standard
Ag	107	0.215	ug/L	0.013	6	43	3660	4	Standard
> Tb	159		ug/L			591249	660897	1	Standard
Pb	208	20.819	ug/L	0.376	1	143	1104283	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0081-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 04:00:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28184	39944	2	Standard
Cl	37		ug/L			2752571	2897582	2	Standard
> Sc	45		ug/L			355422	545789	1	Standard
Cr	52	35.723	ug/L	1.021	2	14569	800607	1	Standard
Cr	53	36.307	ug/L	0.608	1	77	91420	0	Standard
> Ge	72		ug/L			15567	16530	0	KED
Ni	60	43.622	ug/L	0.332	0	5	33813	1	KED
Ni	62	43.342	ug/L	0.285	0	2	5500	0	KED
Cu	63	48.987	ug/L	1.055	2	34	115049	1	KED
Cu	65	51.124	ug/L	0.318	0	12	58640	1	KED
Zn	66	162.641	ug/L	1.398	0	22	46834	1	KED
Zn	67	163.497	ug/L	3.047	1	6	7943	0	KED
As	75	25.985	ug/L	0.880	3	6	3928	2	KED
Se	78	78.779	ug/L	2.632	3	13	1234	3	KED
Y	89		ug/L			215387	549141	1	Standard
Kr	83		ug/L			67	209	5	Standard
> In-1	115		ug/L			5040	5288	2	KED
Cd	111	24.260	ug/L	1.256	5	2	4510	2	KED
Cd	114	23.872	ug/L	0.832	3	6	11279	1	KED
> In	115		ug/L			372197	391992	0	Standard
Ag	107	20.078	ug/L	0.259	1	43	341978	1	Standard
> Tb	159		ug/L			591249	665476	0	Standard
Pb	208	40.469	ug/L	0.670	1	143	2161502	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0081-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 04:05:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28184	40439	3	Standard
Cl	37		ug/L			2752571	2883663	0	Standard
Sc	45		ug/L			355422	546181	2	Standard
Cr	52	35.689	ug/L	0.732	2	14569	800573	3	Standard
Cr	53	37.429	ug/L	0.176	0	77	94315	2	Standard
Ge	72		ug/L			15567	16629	0	KED
Ni	60	42.487	ug/L	1.273	2	5	33128	2	KED
Ni	62	42.639	ug/L	0.857	2	2	5442	1	KED
Cu	63	50.208	ug/L	0.898	1	34	118625	1	KED
Cu	65	50.779	ug/L	0.245	0	12	58593	1	KED
Zn	66	154.659	ug/L	2.738	1	22	44800	1	KED
Zn	67	157.992	ug/L	1.379	0	6	7722	1	KED
As	75	25.832	ug/L	0.876	3	6	3929	3	KED
Se	78	78.883	ug/L	2.485	3	13	1243	2	KED
Y	89		ug/L			215387	554421	1	Standard
Kr	83		ug/L			67	222	13	Standard
In-1	115		ug/L			5040	5211	4	KED
Cd	111	24.320	ug/L	0.718	2	2	4455	1	KED
Cd	114	23.962	ug/L	0.973	4	6	11150	1	KED
In	115		ug/L			372197	385550	1	Standard
Ag	107	20.751	ug/L	0.571	2	43	347528	1	Standard
Tb	159		ug/L			591249	654170	2	Standard
Pb	208	42.215	ug/L	1.079	2	143	2215741	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0081-PS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 04:09:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28184	44182	1	Standard
Cl	37		ug/L			2752571	2935950	2	Standard
> Sc	45		ug/L			355422	547001	2	Standard
Cr	52	35.011	ug/L	0.721	2	14569	786838	1	Standard
Cr	53	36.013	ug/L	0.394	1	77	90893	2	Standard
> Ge	72		ug/L			15567	16406	1	KED
Ni	60	43.509	ug/L	1.455	3	5	33461	1	KED
Ni	62	43.541	ug/L	0.624	1	2	5484	2	KED
Cu	63	50.949	ug/L	0.593	1	34	118765	1	KED
Cu	65	51.821	ug/L	0.935	1	12	59006	3	KED
Zn	66	160.603	ug/L	2.004	1	22	45895	0	KED
Zn	67	161.934	ug/L	2.486	1	6	7808	1	KED
As	75	27.542	ug/L	0.119	0	6	4133	2	KED
Se	78	81.080	ug/L	2.331	2	13	1261	3	KED
Y	89		ug/L			215387	565256	0	Standard
Kr	83		ug/L			67	225	10	Standard
> In-1	115		ug/L			5040	5279	1	KED
Cd	111	23.409	ug/L	0.592	2	2	4347	1	KED
Cd	114	23.475	ug/L	0.586	2	6	11077	1	KED
> In	115		ug/L			372197	390234	1	Standard
Ag	107	20.933	ug/L	0.199	0	43	354916	0	Standard
> Tb	159		ug/L			591249	660706	0	Standard
Pb	208	39.730	ug/L	0.572	1	143	2106799	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0081-SRM1
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 05, 2023 04:14:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28184	36217	2	Standard
	Cl	37		ug/L			2752571	2797346	1	Standard
⌈>	Sc	45		ug/L			355422	420947	2	Standard
|	Cr	52	95.019	ug/L	1.173	1	14569	1613869	1	Standard
⌊	Cr	53	94.394	ug/L	4.303	4	77	183120	3	Standard
⌈>	Ge	72		ug/L			15567	16896	3	KED
|	Ni	60	139.864	ug/L	4.995	3	5	110717	1	KED
|	Ni	62	141.477	ug/L	3.635	2	2	18336	1	KED
|	Cu	63	57.380	ug/L	1.623	2	34	137678	1	KED
|	Cu	65	57.262	ug/L	1.598	2	12	67096	1	KED
|	Zn	66	64.337	ug/L	2.878	4	22	18941	3	KED
|	Zn	67	75.591	ug/L	6.360	8	6	3750	5	KED
|	As	75	36.660	ug/L	0.748	2	6	5660	1	KED
⌊	Se	78	59.403	ug/L	3.840	6	13	954	3	KED
	Y	89		ug/L			215387	358989	2	Standard
	Kr	83		ug/L			67	97	18	Standard
⌈>	In-1	115		ug/L			5040	5090	2	KED
|	Cd	111	69.535	ug/L	1.992	2	2	12443	0	KED
⌊	Cd	114	70.745	ug/L	1.523	2	6	32174	2	KED
⌈>	In	115		ug/L			372197	398650	1	Standard
⌊	Ag	107	20.119	ug/L	0.566	2	43	348483	3	Standard
⌈>	Tb	159		ug/L			591249	659361	1	Standard
⌊	Pb	208	102.288	ug/L	1.377	1	143	5412686	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLD
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 04:18:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28184	29926	0	Standard
	Cl	**37**		ug/L			2752571	2745332	1	Standard
⌈>	**Sc**	**45**		ug/L			355422	371021	0	Standard
|	**Cr**	**52**	**-0.011**	ug/L	0.022	206	14569	15049	2	Standard
⌊	**Cr**	**53**	**0.001**	ug/L	0.002	196	77	82	2	Standard
⌈>	**Ge**	**72**		ug/L			15567	15974	3	KED
|	**Ni**	**60**	**0.008**	ug/L	0.006	74	5	12	36	KED
|	**Ni**	**62**	**-0.011**	ug/L	0.018	170	2	1	173	KED
|	**Cu**	**63**	**0.051**	ug/L	0.005	9	34	150	3	KED
|	**Cu**	**65**	**0.047**	ug/L	0.006	13	12	65	11	KED
|	**Zn**	**66**	**-0.002**	ug/L	0.021	1196	22	22	22	KED
|	**Zn**	**67**	**-0.043**	ug/L	0.105	242	6	4	107	KED
|	**As**	**75**	**-0.003**	ug/L	0.011	319	6	6	26	KED
⌊	**Se**	**78**	**-0.263**	ug/L	0.103	39	13	10	12	KED
	Y	**89**		ug/L			215387	224854	1	Standard
	Kr	**83**		ug/L			67	66	22	Standard
⌈>	**In-1**	**115**		ug/L			5040	5158	3	KED
|	**Cd**	**111**	**0.005**	ug/L	0.011	222	2	3	56	KED
⌊	**Cd**	**114**	**-0.012**	ug/L	0.005	39	6	0	223	KED
⌈>	**In**	**115**		ug/L			372197	389303	1	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.001	19	43	99	10	Standard
⌈>	**Tb**	**159**		ug/L			591249	615671	2	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	2	143	322	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVG
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 04:23:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28184	28038	1	Standard
	Cl	**37**		ug/L			2752571	2941868	1	Standard
⌈>	**Sc**	**45**		ug/L			355422	377579	0	Standard
|	**Cr**	**52**	**53.187**	ug/L	0.802	1	14569	817243	1	Standard
⌊	**Cr**	**53**	**52.318**	ug/L	1.765	3	77	91128	4	Standard
⌈>	**Ge**	**72**		ug/L			15567	15914	2	KED
|	**Ni**	**60**	**47.800**	ug/L	1.193	2	5	35657	0	KED
|	**Ni**	**62**	**46.987**	ug/L	0.677	1	2	5739	1	KED
|	**Cu**	**63**	**47.883**	ug/L	0.186	0	34	108278	2	KED
|	**Cu**	**65**	**47.853**	ug/L	0.522	1	12	52840	1	KED
|	**Zn**	**66**	**48.545**	ug/L	1.030	2	22	13470	0	KED
|	**Zn**	**67**	**48.512**	ug/L	1.373	2	6	2273	1	KED
|	**As**	**75**	**51.790**	ug/L	0.448	0	6	7531	1	KED
⌊	**Se**	**78**	**53.900**	ug/L	1.873	3	13	817	1	KED
	Y	**89**		ug/L			215387	223678	2	Standard
	Kr	**83**		ug/L			67	80	19	Standard
⌈>	**In-1**	**115**		ug/L			5040	4982	1	KED
|	**Cd**	**111**	**51.010**	ug/L	0.624	1	2	8938	1	KED
⌊	**Cd**	**114**	**50.545**	ug/L	0.518	1	6	22506	2	KED
⌈>	**In**	**115**		ug/L			372197	378844	1	Standard
⌊	**Ag**	**107**	**43.829**	ug/L	0.740	1	43	721278	0	Standard
⌈>	**Tb**	**159**		ug/L			591249	632167	0	Standard
⌊	**Pb**	**208**	**45.430**	ug/L	0.309	0	143	2305115	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBG
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 04:30:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28184	27579	3	Standard
	Cl	**37**		ug/L			2752571	2852922	3	Standard
⌈>	**Sc**	**45**		ug/L			355422	369881	2	Standard
|	**Cr**	**52**	**0.001**	ug/L	0.015	1058	14569	15183	2	Standard
⌊	**Cr**	**53**	**0.004**	ug/L	0.008	208	77	87	18	Standard
⌈>	**Ge**	**72**		ug/L			15567	16017	1	KED
|	**Ni**	**60**	**0.001**	ug/L	0.005	875	5	6	62	KED
|	**Ni**	**62**	**-0.006**	ug/L	0.015	259	2	1	100	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.002	53	34	26	18	KED
|	**Cu**	**65**	**0.003**	ug/L	0.006	195	12	16	40	KED
|	**Zn**	**66**	**-0.016**	ug/L	0.007	43	22	19	10	KED
|	**Zn**	**67**	**-0.045**	ug/L	0.046	103	6	4	49	KED
|	**As**	**75**	**-0.008**	ug/L	0.005	58	6	5	13	KED
⌊	**Se**	**78**	**-0.067**	ug/L	0.226	338	13	13	26	KED
	Y	**89**		ug/L			215387	224924	2	Standard
	Kr	**83**		ug/L			67	69	9	Standard
⌈>	**In-1**	**115**		ug/L			5040	5129	1	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.003	56	2	1	34	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.009	216	6	4	94	KED
⌈>	**In**	**115**		ug/L			372197	388031	1	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	33	43	75	12	Standard
⌈>	**Tb**	**159**		ug/L			591249	611261	1	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	54	143	169	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0683-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 04:35:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28184	38860	0	Standard
	Cl	37		ug/L			2752571	2877543	3	Standard
⌈>	Sc	45		ug/L			355422	389317	0	Standard
|	Cr	52	0.066	ug/L	0.055	83	14569	16980	4	Standard
⌊	Cr	53	0.019	ug/L	0.007	38	77	119	11	Standard
⌈>	Ge	72		ug/L			15567	15883	0	KED
|	Ni	60	0.008	ug/L	0.008	101	5	11	50	KED
|	Ni	62	-0.000	ug/L	0.009	1917	2	2	43	KED
|	Cu	63	0.015	ug/L	0.003	20	34	69	9	KED
|	Cu	65	0.026	ug/L	0.007	27	12	41	19	KED
|	Zn	66	0.600	ug/L	0.010	1	22	189	2	KED
|	Zn	67	0.391	ug/L	0.105	26	6	24	20	KED
|	As	75	-0.005	ug/L	0.007	123	6	5	16	KED
⌊	Se	78	-0.133	ug/L	0.117	88	13	12	13	KED
	Y	89		ug/L			215387	235201	1	Standard
	Kr	83		ug/L			67	57	10	Standard
⌈>	In-1	115		ug/L			5040	5046	2	KED
|	Cd	111	0.007	ug/L	0.006	81	2	3	25	KED
⌊	Cd	114	-0.004	ug/L	0.005	121	6	4	50	KED
⌈>	In	115		ug/L			372197	397712	1	Standard
⌊	Ag	107	0.002	ug/L	0.001	54	43	78	21	Standard
⌈>	Tb	159		ug/L			591249	630051	2	Standard
⌊	Pb	208	0.008	ug/L	0.000	3	143	561	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0683-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 04:40:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28184	35494	3	Standard
	Cl	37		ug/L			2752571	2779821	5	Standard
⌈>	Sc	45		ug/L			355422	374729	12	Standard
|	Cr	52	27.971	ug/L	2.372	8	14569	430870	4	Standard
⌊	Cr	53	27.872	ug/L	2.302	8	77	47880	4	Standard
⌈>	Ge	72		ug/L			15567	16356	1	KED
|	Ni	60	24.662	ug/L	0.763	3	5	18910	1	KED
|	Ni	62	24.987	ug/L	0.656	2	2	3138	1	KED
|	Cu	63	24.224	ug/L	0.384	1	34	56318	2	KED
|	Cu	65	25.267	ug/L	0.778	3	12	28677	2	KED
|	Zn	66	77.805	ug/L	2.746	3	22	22172	1	KED
|	Zn	67	72.550	ug/L	1.006	1	6	3491	0	KED
|	As	75	25.797	ug/L	0.459	1	6	3858	0	KED
⌊	Se	78	84.755	ug/L	2.714	3	13	1313	1	KED
	Y	89		ug/L			215387	215835	10	Standard
	Kr	83		ug/L			67	77	5	Standard
⌈>	In-1	115		ug/L			5040	5484	2	KED
|	Cd	111	23.524	ug/L	0.940	3	2	4536	1	KED
⌊	Cd	114	23.757	ug/L	1.022	4	6	11641	2	KED
⌈>	In	115		ug/L			372197	377119	11	Standard
⌊	Ag	107	23.059	ug/L	2.405	10	43	374876	1	Standard
⌈>	Tb	159		ug/L			591249	600147	10	Standard
⌊	Pb	208	25.100	ug/L	2.717	10	143	1199752	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0683-SRL1
Sample Dil Factor: 100
Comments:
Sample Date/Time: Thursday, January 05, 2023 04:44:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28184	35050	1	Standard
	Cl	**37**		ug/L			2752571	2841948	1	Standard
⌈>	**Sc**	**45**		ug/L			355422	407384	3	Standard
|	**Cr**	**52**	**3.098**	ug/L	0.062	2	14569	67089	4	Standard
⌊	**Cr**	**53**	**3.227**	ug/L	0.109	3	77	6152	7	Standard
⌈>	**Ge**	**72**		ug/L			15567	16401	1	KED
|	**Ni**	**60**	**3.412**	ug/L	0.066	1	5	2630	3	KED
|	**Ni**	**62**	**3.262**	ug/L	0.282	8	2	412	6	KED
|	**Cu**	**63**	**6.465**	ug/L	0.180	2	34	15096	3	KED
|	**Cu**	**65**	**6.395**	ug/L	0.094	1	12	7288	1	KED
|	**Zn**	**66**	**26.170**	ug/L	0.364	1	22	7495	1	KED
|	**Zn**	**67**	**26.839**	ug/L	1.486	5	6	1300	7	KED
|	**As**	**75**	**0.671**	ug/L	0.014	2	6	107	2	KED
⌊	**Se**	**78**	**0.305**	ug/L	0.130	42	13	19	12	KED
	Y	**89**		ug/L			215387	282327	4	Standard
	Kr	**83**		ug/L			67	86	7	Standard
⌈>	**In-1**	**115**		ug/L			5040	5010	2	KED
|	**Cd**	**111**	**0.083**	ug/L	0.017	19	2	17	14	KED
⌊	**Cd**	**114**	**0.062**	ug/L	0.025	40	6	33	30	KED
⌈>	**In**	**115**		ug/L			372197	391790	1	Standard
⌊	**Ag**	**107**	**0.020**	ug/L	0.002	9	43	379	7	Standard
⌈>	**Tb**	**159**		ug/L			591249	634253	1	Standard
⌊	**Pb**	**208**	**3.098**	ug/L	0.035	1	143	157842	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22J0097-31
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 04:49:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28184	49732	3	Standard
Cl	37		ug/L			2752571	2998191	1	Standard
> Sc	45		ug/L			355422	518424	1	Standard
Cr	52	12.122	ug/L	0.377	3	14569	272176	3	Standard
Cr	53	12.433	ug/L	0.241	1	77	29818	2	Standard
> Ge	72		ug/L			15567	16354	3	KED
Ni	60	17.370	ug/L	0.420	2	5	13316	1	KED
Ni	62	17.395	ug/L	0.674	3	2	2183	1	KED
Cu	63	31.494	ug/L	0.194	0	34	73189	3	KED
Cu	65	31.691	ug/L	0.358	1	12	35959	2	KED
Zn	66	124.712	ug/L	3.517	2	22	35509	0	KED
Zn	67	122.361	ug/L	0.401	0	6	5883	3	KED
As	75	3.389	ug/L	0.248	7	6	512	6	KED
Se	78	1.733	ug/L	0.255	14	13	41	10	KED
Y	89		ug/L			215387	516767	0	Standard
Kr	83		ug/L			67	165	14	Standard
> In-1	115		ug/L			5040	5015	1	KED
Cd	111	0.285	ug/L	0.038	13	2	52	12	KED
Cd	114	0.291	ug/L	0.049	16	6	136	17	KED
> In	115		ug/L			372197	389133	2	Standard
Ag	107	0.086	ug/L	0.001	0	43	1499	3	Standard
> Tb	159		ug/L			591249	659576	0	Standard
Pb	208	15.032	ug/L	0.064	0	143	795859	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0683-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 04:54:00
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28184	50368	3	Standard
Cl	37		ug/L			2752571	2934370	1	Standard
> Sc	45		ug/L			355422	502780	0	Standard
Cr	52	12.813	ug/L	0.447	3	14569	277760	2	Standard
Cr	53	13.174	ug/L	0.241	1	77	30629	1	Standard
> Ge	72		ug/L			15567	15994	2	KED
Ni	60	17.693	ug/L	0.659	3	5	13265	1	KED
Ni	62	17.958	ug/L	0.482	2	2	2205	2	KED
Cu	63	32.237	ug/L	0.830	2	34	73241	0	KED
Cu	65	33.116	ug/L	0.950	2	12	36746	2	KED
Zn	66	134.539	ug/L	3.531	2	22	37473	1	KED
Zn	67	135.967	ug/L	5.537	4	6	6388	1	KED
As	75	3.880	ug/L	0.121	3	6	573	0	KED
Se	78	1.778	ug/L	0.213	11	13	40	9	KED
Y	89		ug/L			215387	525792	1	Standard
Kr	83		ug/L			67	158	14	Standard
> In-1	115		ug/L			5040	5083	1	KED
Cd	111	0.330	ug/L	0.075	22	2	61	21	KED
Cd	114	0.307	ug/L	0.047	15	6	145	15	KED
> In	115		ug/L			372197	388021	0	Standard
Ag	107	0.081	ug/L	0.002	2	43	1418	2	Standard
> Tb	159		ug/L			591249	657320	1	Standard
Pb	208	14.509	ug/L	0.341	2	143	765344	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0683-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 04:58:37
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28184	45918	3	Standard
	Cl	37		ug/L			2752571	2819180	0	Standard
>	Sc	45		ug/L			355422	499312	4	Standard
	Cr	52	33.738	ug/L	1.010	2	14569	692630	3	Standard
	Cr	53	34.722	ug/L	0.397	1	77	79973	3	Standard
>	Ge	72		ug/L			15567	16610	1	KED
	Ni	60	40.084	ug/L	0.799	1	5	31213	0	KED
	Ni	62	39.569	ug/L	1.290	3	2	5044	1	KED
	Cu	63	53.408	ug/L	1.052	1	34	126016	0	KED
	Cu	65	54.451	ug/L	2.336	4	12	62723	2	KED
	Zn	66	188.188	ug/L	5.361	2	22	54427	1	KED
	Zn	67	186.787	ug/L	7.253	3	6	9114	2	KED
	As	75	25.740	ug/L	0.676	2	6	3909	0	KED
	Se	78	75.114	ug/L	3.249	4	13	1183	2	KED
	Y	89		ug/L			215387	535354	0	Standard
	Kr	83		ug/L			67	161	2	Standard
>	In-1	115		ug/L			5040	4969	0	KED
	Cd	111	25.369	ug/L	0.102	0	2	4436	0	KED
	Cd	114	25.264	ug/L	0.676	2	6	11224	2	KED
>	In	115		ug/L			372197	384414	2	Standard
	Ag	107	19.830	ug/L	0.230	1	43	331226	2	Standard
>	Tb	159		ug/L			591249	658283	2	Standard
	Pb	208	34.946	ug/L	0.825	2	143	1845807	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0683-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 05:03:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28184	45072	2	Standard
Cl	37		ug/L			2752571	2921801	0	Standard
Sc	45		ug/L			355422	502287	2	Standard
Cr	52	32.976	ug/L	0.376	1	14569	681731	2	Standard
Cr	53	33.732	ug/L	0.253	0	77	78173	2	Standard
Ge	72		ug/L			15567	16547	1	KED
Ni	60	40.179	ug/L	0.497	1	5	31174	0	KED
Ni	62	40.337	ug/L	0.898	2	2	5124	2	KED
Cu	63	52.306	ug/L	0.529	1	34	122994	2	KED
Cu	65	53.261	ug/L	0.839	1	12	61156	2	KED
Zn	66	189.828	ug/L	4.555	2	22	54703	1	KED
Zn	67	184.658	ug/L	6.053	3	6	8983	4	KED
As	75	26.015	ug/L	0.293	1	6	3938	2	KED
Se	78	78.268	ug/L	2.197	2	13	1228	2	KED
Y	89		ug/L			215387	536381	3	Standard
Kr	83		ug/L			67	164	5	Standard
In-1	115		ug/L			5040	5240	1	KED
Cd	111	24.528	ug/L	0.424	1	2	4522	0	KED
Cd	114	23.968	ug/L	0.905	3	6	11226	2	KED
In	115		ug/L			372197	391904	2	Standard
Ag	107	19.003	ug/L	0.944	4	43	323364	3	Standard
Tb	159		ug/L			591249	657666	2	Standard
Pb	208	35.128	ug/L	0.830	2	143	1853469	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0683-PS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 05:07:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28184	50684	0	Standard
Cl	37		ug/L			2752571	2934441	0	Standard
> Sc	45		ug/L			355422	504676	1	Standard
Cr	52	31.300	ug/L	0.808	2	14569	651367	3	Standard
Cr	53	31.623	ug/L	0.131	0	77	73654	1	Standard
> Ge	72		ug/L			15567	16207	0	KED
Ni	60	40.168	ug/L	0.645	1	5	30525	1	KED
Ni	62	42.114	ug/L	1.668	3	2	5239	3	KED
Cu	63	54.559	ug/L	0.188	0	34	125640	1	KED
Cu	65	55.048	ug/L	0.281	0	12	61906	0	KED
Zn	66	197.335	ug/L	4.482	2	22	55711	2	KED
Zn	67	192.613	ug/L	2.419	1	6	9175	1	KED
As	75	27.496	ug/L	0.356	1	6	4075	1	KED
Se	78	80.979	ug/L	1.740	2	13	1244	1	KED
Y	89		ug/L			215387	512205	0	Standard
Kr	83		ug/L			67	159	9	Standard
> In-1	115		ug/L			5040	5109	0	KED
Cd	111	24.050	ug/L	0.183	0	2	4324	0	KED
Cd	114	23.261	ug/L	0.091	0	6	10626	1	KED
> In	115		ug/L			372197	386601	1	Standard
Ag	107	20.690	ug/L	0.558	2	43	347432	1	Standard
> Tb	159		ug/L			591249	656395	1	Standard
Pb	208	36.511	ug/L	0.712	1	143	1923234	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0683-SRM1
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 05, 2023 05:12:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28184	37727	2	Standard
	Cl	37		ug/L			2752571	2786515	3	Standard
⌈>	Sc	45		ug/L			355422	405645	1	Standard
|	Cr	52	85.019	ug/L	0.476	0	14569	1393448	1	Standard
⌊	Cr	53	87.469	ug/L	0.769	0	77	163581	1	Standard
⌈>	Ge	72		ug/L			15567	16452	1	KED
|	Ni	60	129.717	ug/L	2.374	1	5	100049	1	KED
|	Ni	62	126.143	ug/L	4.106	3	2	15921	1	KED
|	Cu	63	52.476	ug/L	1.211	2	34	122691	3	KED
|	Cu	65	53.026	ug/L	1.363	2	12	60524	2	KED
|	Zn	66	60.764	ug/L	1.223	2	22	17425	0	KED
|	Zn	67	70.775	ug/L	1.080	1	6	3426	2	KED
|	As	75	34.633	ug/L	0.317	0	6	5209	0	KED
⌊	Se	78	53.500	ug/L	1.999	3	13	839	4	KED
	Y	89		ug/L			215387	350698	0	Standard
	Kr	83		ug/L			67	86	11	Standard
⌈>	In-1	115		ug/L			5040	5274	2	KED
|	Cd	111	60.980	ug/L	0.053	0	2	11314	2	KED
⌊	Cd	114	60.563	ug/L	1.300	2	6	28538	0	KED
⌈>	In	115		ug/L			372197	392455	0	Standard
⌊	Ag	107	18.307	ug/L	0.406	2	43	312149	1	Standard
⌈>	Tb	159		ug/L			591249	658245	1	Standard
⌊	Pb	208	95.567	ug/L	2.244	2	143	5047387	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 05:17:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28184	29145	2	Standard
	Cl	**37**		ug/L			2752571	2746064	3	Standard
⌈>	**Sc**	**45**		ug/L			355422	365527	1	Standard
|	**Cr**	**52**	**0.003**	ug/L	0.036	1139	14569	15031	3	Standard
⌊	**Cr**	**53**	**0.013**	ug/L	0.014	112	77	101	24	Standard
⌈>	**Ge**	**72**		ug/L			15567	15221	2	KED
|	**Ni**	**60**	**0.007**	ug/L	0.002	24	5	10	10	KED
|	**Ni**	**62**	**-0.005**	ug/L	0.016	322	2	1	100	KED
|	**Cu**	**63**	**0.046**	ug/L	0.003	7	34	132	5	KED
|	**Cu**	**65**	**0.057**	ug/L	0.014	25	12	72	18	KED
|	**Zn**	**66**	**0.012**	ug/L	0.035	295	22	25	35	KED
|	**Zn**	**67**	**0.035**	ug/L	0.231	666	6	7	132	KED
|	**As**	**75**	**0.002**	ug/L	0.010	425	6	6	18	KED
⌊	**Se**	**78**	**-0.207**	ug/L	0.236	113	13	10	29	KED
	Y	**89**		ug/L			215387	218870	1	Standard
	Kr	**83**		ug/L			67	62	18	Standard
⌈>	**In-1**	**115**		ug/L			5040	5005	4	KED
|	**Cd**	**111**	**0.011**	ug/L	0.002	19	2	4	12	KED
⌊	**Cd**	**114**	**-0.010**	ug/L	0.004	43	6	1	130	KED
⌈>	**In**	**115**		ug/L			372197	379185	0	Standard
⌊	**Ag**	**107**	**0.006**	ug/L	0.006	98	43	144	67	Standard
⌈>	**Tb**	**159**		ug/L			591249	600045	1	Standard
⌊	**Pb**	**208**	**0.012**	ug/L	0.015	122	143	726	99	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVH
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 05:21:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28184	27408	0	Standard
	Cl	**37**		ug/L			2752571	2957669	1	Standard
⌈>	**Sc**	**45**		ug/L			355422	368889	2	Standard
⎢	**Cr**	**52**	**51.738**	ug/L	0.952	1	14569	776895	1	Standard
⌊	**Cr**	**53**	**52.464**	ug/L	1.378	2	77	89228	0	Standard
⌈>	**Ge**	**72**		ug/L			15567	15835	0	KED
⎢	**Ni**	**60**	**47.590**	ug/L	0.911	1	5	35333	1	KED
⎢	**Ni**	**62**	**47.024**	ug/L	1.579	3	2	5715	2	KED
⎢	**Cu**	**63**	**47.177**	ug/L	0.415	0	34	106153	1	KED
⎢	**Cu**	**65**	**47.601**	ug/L	0.800	1	12	52300	0	KED
⎢	**Zn**	**66**	**48.680**	ug/L	1.324	2	22	13443	2	KED
⎢	**Zn**	**67**	**50.268**	ug/L	2.205	4	6	2344	4	KED
⎢	**As**	**75**	**52.319**	ug/L	0.964	1	6	7570	1	KED
⌊	**Se**	**78**	**53.238**	ug/L	0.677	1	13	804	1	KED
	Y	**89**		ug/L			215387	218953	1	Standard
	Kr	**83**		ug/L			67	71	16	Standard
⌈>	**In-1**	**115**		ug/L			5040	5050	2	KED
⎢	**Cd**	**111**	**49.106**	ug/L	0.967	1	2	8721	0	KED
⌊	**Cd**	**114**	**49.255**	ug/L	1.238	2	6	22223	0	KED
⌈>	**In**	**115**		ug/L			372197	382479	1	Standard
⌊	**Ag**	**107**	**42.458**	ug/L	0.753	1	43	705621	2	Standard
⌈>	**Tb**	**159**		ug/L			591249	621263	1	Standard
⌊	**Pb**	**208**	**45.839**	ug/L	0.898	1	143	2285546	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBH
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 05:29:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28184	26799	0	Standard
	Cl	**37**		ug/L			2752571	2660422	2	Standard
⌈>	**Sc**	**45**		ug/L			355422	352475	6	Standard
|	**Cr**	**52**	**0.038**	ug/L	0.051	136	14569	14951	3	Standard
⌊	**Cr**	**53**	**0.010**	ug/L	0.004	39	77	93	4	Standard
⌈>	**Ge**	**72**		ug/L			15567	15797	2	KED
|	**Ni**	**60**	**0.003**	ug/L	0.011	319	5	8	96	KED
|	**Ni**	**62**	**-0.016**	ug/L	0.009	58	2	0	173	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.002	63	34	26	22	KED
|	**Cu**	**65**	**0.005**	ug/L	0.003	59	12	18	15	KED
|	**Zn**	**66**	**0.020**	ug/L	0.030	151	22	28	26	KED
|	**Zn**	**67**	**0.013**	ug/L	0.097	748	6	6	62	KED
|	**As**	**75**	**0.005**	ug/L	0.023	466	6	7	45	KED
⌊	**Se**	**78**	**-0.153**	ug/L	0.176	115	13	11	24	KED
	Y	**89**		ug/L			215387	205793	9	Standard
	Kr	**83**		ug/L			67	67	1	Standard
⌈>	**In-1**	**115**		ug/L			5040	5003	0	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.005	151	2	1	50	KED
⌊	**Cd**	**114**	**0.005**	ug/L	0.007	148	6	8	36	KED
⌈>	**In**	**115**		ug/L			372197	359152	8	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.001	19	43	86	12	Standard
⌈>	**Tb**	**159**		ug/L			591249	563124	6	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	113	143	162	15	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0048-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 05:33:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28184	37609	2	Standard
	Cl	**37**		ug/L			2752571	2787865	2	Standard
⌈>	**Sc**	**45**		ug/L			355422	392491	2	Standard
|	**Cr**	**52**	**0.142**	ug/L	0.040	27	14569	18302	1	Standard
⌊	**Cr**	**53**	**0.116**	ug/L	0.011	9	77	295	9	Standard
⌈>	**Ge**	**72**		ug/L			15567	15907	2	KED
|	**Ni**	**60**	**0.006**	ug/L	0.011	174	5	10	79	KED
|	**Ni**	**62**	**-0.000**	ug/L	0.010	2943	2	2	43	KED
|	**Cu**	**63**	**0.023**	ug/L	0.008	32	34	86	17	KED
|	**Cu**	**65**	**0.022**	ug/L	0.009	42	12	37	28	KED
|	**Zn**	**66**	**1.031**	ug/L	0.083	8	22	308	5	KED
|	**Zn**	**67**	**0.785**	ug/L	0.071	9	6	43	9	KED
|	**As**	**75**	**-0.012**	ug/L	0.004	34	6	4	11	KED
⌊	**Se**	**78**	**-0.066**	ug/L	0.199	302	13	13	20	KED
	Y	**89**		ug/L			215387	228337	1	Standard
	Kr	**83**		ug/L			67	74	12	Standard
⌈>	**In-1**	**115**		ug/L			5040	5052	0	KED
|	**Cd**	**111**	**0.009**	ug/L	0.014	152	2	4	58	KED
⌊	**Cd**	**114**	**-0.006**	ug/L	0.000	3	6	3	3	KED
⌈>	**In**	**115**		ug/L			372197	391837	1	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.000	395	43	48	17	Standard
⌈>	**Tb**	**159**		ug/L			591249	626788	0	Standard
⌊	**Pb**	**208**	**0.007**	ug/L	0.000	1	143	526	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0048-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 05:38:17
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28184	41819	4	Standard
	Cl	**37**		ug/L			2752571	2830427	2	Standard
⌈>	**Sc**	**45**		ug/L			355422	398898	2	Standard
|	**Cr**	**52**	**25.560**	ug/L	0.701	2	14569	423362	2	Standard
⌊	**Cr**	**53**	**26.079**	ug/L	0.259	0	77	48031	3	Standard
⌈>	**Ge**	**72**		ug/L			15567	16083	0	KED
|	**Ni**	**60**	**25.280**	ug/L	0.562	2	5	19067	1	KED
|	**Ni**	**62**	**25.118**	ug/L	0.458	1	2	3102	1	KED
|	**Cu**	**63**	**25.327**	ug/L	0.174	0	34	57897	0	KED
|	**Cu**	**65**	**25.510**	ug/L	0.268	1	12	28476	0	KED
|	**Zn**	**66**	**78.908**	ug/L	1.764	2	22	22120	2	KED
|	**Zn**	**67**	**72.096**	ug/L	2.308	3	6	3412	3	KED
|	**As**	**75**	**25.902**	ug/L	0.312	1	6	3810	1	KED
⌊	**Se**	**78**	**83.577**	ug/L	1.572	1	13	1273	1	KED
	Y	**89**		ug/L			215387	232778	3	Standard
	Kr	**83**		ug/L			67	76	17	Standard
⌈>	**In-1**	**115**		ug/L			5040	5151	3	KED
|	**Cd**	**111**	**25.083**	ug/L	0.655	2	2	4544	2	KED
⌊	**Cd**	**114**	**25.295**	ug/L	0.613	2	6	11642	1	KED
⌈>	**In**	**115**		ug/L			372197	394684	1	Standard
⌊	**Ag**	**107**	**22.132**	ug/L	0.152	0	43	379534	1	Standard
⌈>	**Tb**	**159**		ug/L			591249	635877	2	Standard
⌊	**Pb**	**208**	**23.510**	ug/L	0.659	2	143	1199455	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 05:42:55
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28184	60598	5	Standard
Cl	37		ug/L			2752571	2930405	3	Standard
> Sc	45		ug/L			355422	523244	1	Standard
Cr	52	15.921	ug/L	0.124	0	14569	354039	2	Standard
Cr	53	16.305	ug/L	0.341	2	77	39418	0	Standard
> Ge	72		ug/L			15567	16734	0	KED
Ni	60	13.829	ug/L	0.348	2	5	10854	2	KED
Ni	62	13.305	ug/L	0.207	1	2	1711	1	KED
Cu	63	40.937	ug/L	1.056	2	34	97343	2	KED
Cu	65	41.992	ug/L	0.366	0	12	48763	0	KED
Zn	66	83.476	ug/L	2.028	2	22	24347	2	KED
Zn	67	82.783	ug/L	2.962	3	6	4074	2	KED
As	75	9.102	ug/L	0.218	2	6	1398	2	KED
Se	78	1.924	ug/L	0.281	14	13	45	9	KED
Y	89		ug/L			215387	501055	3	Standard
Kr	83		ug/L			67	173	11	Standard
> In-1	115		ug/L			5040	5128	2	KED
Cd	111	0.439	ug/L	0.074	16	2	81	14	KED
Cd	114	0.404	ug/L	0.028	6	6	191	9	KED
> In	115		ug/L			372197	398025	1	Standard
Ag	107	0.485	ug/L	0.015	2	43	8426	1	Standard
> Tb	159		ug/L			591249	660635	2	Standard
Pb	208	31.740	ug/L	0.654	2	143	1682577	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 05:47:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28184	53399	2	Standard
Cl	37		ug/L			2752571	2930218	0	Standard
Sc	45		ug/L			355422	534047	3	Standard
Cr	52	14.833	ug/L	0.663	4	14569	337791	1	Standard
Cr	53	15.374	ug/L	0.371	2	77	37941	3	Standard
Ge	72		ug/L			15567	16753	3	KED
Ni	60	13.746	ug/L	0.255	1	5	10799	1	KED
Ni	62	13.348	ug/L	0.928	6	2	1717	6	KED
Cu	63	37.103	ug/L	0.692	1	34	88301	1	KED
Cu	65	38.040	ug/L	0.475	1	12	44216	2	KED
Zn	66	80.650	ug/L	2.367	2	22	23536	1	KED
Zn	67	80.949	ug/L	1.705	2	6	3988	1	KED
As	75	8.488	ug/L	0.319	3	6	1304	1	KED
Se	78	1.674	ug/L	0.341	20	13	41	10	KED
Y	89		ug/L			215387	502697	3	Standard
Kr	83		ug/L			67	172	11	Standard
In-1	115		ug/L			5040	5269	1	KED
Cd	111	0.370	ug/L	0.042	11	2	71	9	KED
Cd	114	0.374	ug/L	0.019	4	6	182	3	KED
In	115		ug/L			372197	401913	0	Standard
Ag	107	0.321	ug/L	0.004	1	43	5659	1	Standard
Tb	159		ug/L			591249	658357	2	Standard
Pb	208	27.670	ug/L	0.785	2	143	1461571	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 05:52:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28184	51043	4	Standard
Cl	37		ug/L			2752571	3018661	3	Standard
> Sc	45		ug/L			355422	529433	3	Standard
Cr	52	13.988	ug/L	0.447	3	14569	317273	3	Standard
Cr	53	14.516	ug/L	0.408	2	77	35508	1	Standard
> Ge	72		ug/L			15567	16326	2	KED
Ni	60	13.921	ug/L	0.718	5	5	10652	2	KED
Ni	62	14.070	ug/L	0.188	1	2	1765	2	KED
Cu	63	33.248	ug/L	1.146	3	34	77095	0	KED
Cu	65	34.706	ug/L	0.335	0	12	39319	2	KED
Zn	66	68.401	ug/L	1.852	2	22	19458	0	KED
Zn	67	69.160	ug/L	3.376	4	6	3320	2	KED
As	75	7.542	ug/L	0.339	4	6	1130	2	KED
Se	78	1.534	ug/L	0.592	38	13	37	22	KED
Y	89		ug/L			215387	485177	1	Standard
Kr	83		ug/L			67	157	18	Standard
> In-1	115		ug/L			5040	5146	2	KED
Cd	111	0.300	ug/L	0.021	7	2	56	4	KED
Cd	114	0.293	ug/L	0.029	9	6	141	10	KED
> In	115		ug/L			372197	393770	1	Standard
Ag	107	0.251	ug/L	0.005	1	43	4342	1	Standard
> Tb	159		ug/L			591249	660499	1	Standard
Pb	208	25.629	ug/L	0.661	2	143	1358357	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 05:56:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28184	56245	2	Standard
Cl	37		ug/L			2752571	2942399	1	Standard
Sc	45		ug/L			355422	584482	1	Standard
Cr	52	9.926	ug/L	0.085	0	14569	255547	1	Standard
Cr	53	10.322	ug/L	0.145	1	77	27930	2	Standard
Ge	72		ug/L			15567	16516	3	KED
Ni	60	10.495	ug/L	0.393	3	5	8127	2	KED
Ni	62	10.764	ug/L	0.575	5	2	1367	6	KED
Cu	63	27.272	ug/L	0.746	2	34	64007	3	KED
Cu	65	28.350	ug/L	0.825	2	12	32476	0	KED
Zn	66	52.550	ug/L	2.710	5	22	15121	2	KED
Zn	67	56.744	ug/L	2.431	4	6	2757	2	KED
As	75	7.020	ug/L	0.241	3	6	1064	1	KED
Se	78	2.221	ug/L	0.184	8	13	49	8	KED
Y	89		ug/L			215387	575235	1	Standard
Kr	83		ug/L			67	248	4	Standard
In-1	115		ug/L			5040	5113	3	KED
Cd	111	0.241	ug/L	0.033	13	2	45	9	KED
Cd	114	0.251	ug/L	0.035	13	6	120	11	KED
In	115		ug/L			372197	392075	1	Standard
Ag	107	0.179	ug/L	0.005	2	43	3101	1	Standard
Tb	159		ug/L			591249	670615	1	Standard
Pb	208	15.177	ug/L	0.209	1	143	816928	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 06:01:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28184	62302	2	Standard
Cl	37		ug/L			2752571	3078231	5	Standard
> Sc	45		ug/L			355422	525222	2	Standard
Cr	52	14.023	ug/L	0.143	1	14569	315559	2	Standard
Cr	53	14.431	ug/L	0.151	1	77	35041	3	Standard
> Ge	72		ug/L			15567	16881	1	KED
Ni	60	13.410	ug/L	0.273	2	5	10617	1	KED
Ni	62	13.939	ug/L	0.286	2	2	1808	2	KED
Cu	63	26.911	ug/L	0.256	0	34	64564	1	KED
Cu	65	27.187	ug/L	0.137	0	12	31851	1	KED
Zn	66	59.033	ug/L	0.359	0	22	17374	0	KED
Zn	67	57.661	ug/L	0.566	0	6	2865	2	KED
As	75	6.281	ug/L	0.097	1	6	975	2	KED
Se	78	1.516	ug/L	0.398	26	13	39	16	KED
Y	89		ug/L			215387	488237	1	Standard
Kr	83		ug/L			67	168	6	Standard
> In-1	115		ug/L			5040	5298	4	KED
Cd	111	0.225	ug/L	0.032	14	2	44	8	KED
Cd	114	0.216	ug/L	0.016	7	6	108	6	KED
> In	115		ug/L			372197	405318	1	Standard
Ag	107	0.179	ug/L	0.002	1	43	3191	2	Standard
> Tb	159		ug/L			591249	665203	0	Standard
Pb	208	14.842	ug/L	0.218	1	143	792481	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 06:06:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28184	64746	0	Standard
Cl	37		ug/L			2752571	2980279	1	Standard
Sc	45		ug/L			355422	519954	2	Standard
Cr	52	12.680	ug/L	0.109	0	14569	284554	2	Standard
Cr	53	13.274	ug/L	0.084	0	77	31920	2	Standard
Ge	72		ug/L			15567	16940	4	KED
Ni	60	12.484	ug/L	0.255	2	5	9915	3	KED
Ni	62	12.751	ug/L	0.326	2	2	1661	7	KED
Cu	63	24.989	ug/L	0.810	3	34	60105	1	KED
Cu	65	25.394	ug/L	1.757	6	12	29790	2	KED
Zn	66	54.024	ug/L	2.111	3	22	15940	2	KED
Zn	67	54.970	ug/L	2.397	4	6	2738	1	KED
As	75	6.378	ug/L	0.244	3	6	992	1	KED
Se	78	1.418	ug/L	0.371	26	13	37	18	KED
Y	89		ug/L			215387	473870	2	Standard
Kr	83		ug/L			67	166	29	Standard
In-1	115		ug/L			5040	5366	2	KED
Cd	111	0.201	ug/L	0.014	7	2	40	8	KED
Cd	114	0.242	ug/L	0.027	11	6	122	8	KED
In	115		ug/L			372197	401857	0	Standard
Ag	107	0.153	ug/L	0.001	0	43	2711	0	Standard
Tb	159		ug/L			591249	671142	2	Standard
Pb	208	14.595	ug/L	0.513	3	143	785896	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-08
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 06:10:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28184	55082	2	Standard
Cl	37		ug/L			2752571	2982232	3	Standard
Sc	45		ug/L			355422	520202	4	Standard
Cr	52	14.124	ug/L	0.513	3	14569	314319	1	Standard
Cr	53	14.554	ug/L	0.938	6	77	34930	2	Standard
Ge	72		ug/L			15567	17169	2	KED
Ni	60	14.365	ug/L	0.696	4	5	11561	2	KED
Ni	62	14.098	ug/L	0.177	1	2	1860	3	KED
Cu	63	26.241	ug/L	0.990	3	34	64000	1	KED
Cu	65	26.538	ug/L	0.391	1	12	31629	3	KED
Zn	66	54.234	ug/L	1.540	2	22	16233	2	KED
Zn	67	52.751	ug/L	3.412	6	6	2665	4	KED
As	75	6.689	ug/L	0.081	1	6	1055	3	KED
Se	78	1.571	ug/L	0.224	14	13	40	8	KED
Y	89		ug/L			215387	495009	1	Standard
Kr	83		ug/L			67	179	7	Standard
In-1	115		ug/L			5040	5361	0	KED
Cd	111	0.198	ug/L	0.030	14	2	40	14	KED
Cd	114	0.228	ug/L	0.019	8	6	115	7	KED
In	115		ug/L			372197	394289	1	Standard
Ag	107	0.130	ug/L	0.005	3	43	2275	2	Standard
Tb	159		ug/L			591249	657981	3	Standard
Pb	208	14.263	ug/L	0.424	2	143	752844	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLF
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 06:15:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28184	29374	4	Standard
	Cl	**37**		ug/L			2752571	2864960	2	Standard
⌈>	**Sc**	**45**		ug/L			355422	366424	0	Standard
|	**Cr**	**52**	**0.022**	ug/L	0.032	147	14569	15341	3	Standard
⌊	**Cr**	**53**	**0.004**	ug/L	0.006	152	77	86	10	Standard
⌈>	**Ge**	**72**		ug/L			15567	15766	2	KED
|	**Ni**	**60**	**-0.004**	ug/L	0.004	90	5	2	114	KED
|	**Ni**	**62**	**0.015**	ug/L	0.049	333	2	4	137	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.002	39	34	26	11	KED
|	**Cu**	**65**	**0.002**	ug/L	0.005	278	12	14	32	KED
|	**Zn**	**66**	**-0.008**	ug/L	0.033	413	22	20	41	KED
|	**Zn**	**67**	**-0.042**	ug/L	0.064	151	6	4	65	KED
|	**As**	**75**	**-0.007**	ug/L	0.004	59	6	5	9	KED
⌊	**Se**	**78**	**-0.149**	ug/L	0.274	183	13	11	35	KED
	Y	**89**		ug/L			215387	219569	2	Standard
	Kr	**83**		ug/L			67	74	13	Standard
⌈>	**In-1**	**115**		ug/L			5040	4994	3	KED
|	**Cd**	**111**	**0.007**	ug/L	0.005	64	2	3	25	KED
⌊	**Cd**	**114**	**-0.008**	ug/L	0.010	129	6	2	184	KED
⌈>	**In**	**115**		ug/L			372197	383626	0	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.000	91	43	37	19	Standard
⌈>	**Tb**	**159**		ug/L			591249	608819	1	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	935	143	146	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 06:19:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28184	29062	4	Standard
	Cl	**37**		ug/L			2752571	3097796	3	Standard
⌈>	**Sc**	**45**		ug/L			355422	379177	2	Standard
|	**Cr**	**52**	**51.732**	ug/L	0.411	0	14569	798655	2	Standard
⌊	**Cr**	**53**	**51.992**	ug/L	0.554	1	77	90927	2	Standard
⌈>	**Ge**	**72**		ug/L			15567	15654	1	KED
|	**Ni**	**60**	**48.544**	ug/L	2.132	4	5	35633	4	KED
|	**Ni**	**62**	**48.603**	ug/L	1.191	2	2	5839	1	KED
|	**Cu**	**63**	**47.086**	ug/L	1.208	2	34	104717	1	KED
|	**Cu**	**65**	**48.976**	ug/L	1.464	2	12	53189	1	KED
|	**Zn**	**66**	**50.266**	ug/L	1.284	2	22	13720	1	KED
|	**Zn**	**67**	**50.937**	ug/L	3.131	6	6	2346	4	KED
|	**As**	**75**	**53.034**	ug/L	1.196	2	6	7586	2	KED
⌊	**Se**	**78**	**53.998**	ug/L	0.933	1	13	805	1	KED
	Y	**89**		ug/L			215387	233575	0	Standard
	Kr	**83**		ug/L			67	59	12	Standard
⌈>	**In-1**	**115**		ug/L			5040	4982	3	KED
|	**Cd**	**111**	**51.582**	ug/L	1.385	2	2	9035	1	KED
⌊	**Cd**	**114**	**51.225**	ug/L	1.171	2	6	22800	1	KED
⌈>	**In**	**115**		ug/L			372197	385236	0	Standard
⌊	**Ag**	**107**	**43.722**	ug/L	0.970	2	43	731837	2	Standard
⌈>	**Tb**	**159**		ug/L			591249	624463	0	Standard
⌊	**Pb**	**208**	**46.694**	ug/L	0.178	0	143	2340317	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 06:27:17
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28184	29083	0	Standard
	Cl	**37**		ug/L			2752571	2931942	4	Standard
⎡>	**Sc**	**45**		ug/L			355422	379066	4	Standard
⎢	**Cr**	**52**	**0.027**	ug/L	0.034	126	14569	15931	1	Standard
⎣	**Cr**	**53**	**0.006**	ug/L	0.003	55	77	92	2	Standard
⎡>	**Ge**	**72**		ug/L			15567	16006	1	KED
⎢	**Ni**	**60**	**0.001**	ug/L	0.005	814	5	6	62	KED
⎢	**Ni**	**62**	**-0.011**	ug/L	0.009	82	2	1	86	KED
⎢	**Cu**	**63**	**-0.000**	ug/L	0.005	2429	34	34	31	KED
⎢	**Cu**	**65**	**0.003**	ug/L	0.007	226	12	16	46	KED
⎢	**Zn**	**66**	**0.469**	ug/L	0.063	13	22	154	11	KED
⎢	**Zn**	**67**	**0.579**	ug/L	0.296	51	6	33	39	KED
⎢	**As**	**75**	**0.004**	ug/L	0.009	210	6	7	16	KED
⎣	**Se**	**78**	**-0.141**	ug/L	0.278	197	13	12	34	KED
	Y	**89**		ug/L			215387	227993	1	Standard
	Kr	**83**		ug/L			67	52	16	Standard
⎡>	**In-1**	**115**		ug/L			5040	5131	2	KED
⎢	**Cd**	**111**	**-0.006**	ug/L	0.008	141	2	1	91	KED
⎣	**Cd**	**114**	**-0.007**	ug/L	0.002	33	6	3	34	KED
⎡>	**In**	**115**		ug/L			372197	383437	1	Standard
⎣	**Ag**	**107**	**0.002**	ug/L	0.000	19	43	76	7	Standard
⎡>	**Tb**	**159**		ug/L			591249	614553	1	Standard
⎣	**Pb**	**208**	**0.001**	ug/L	0.001	111	143	175	17	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 06:31:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28184	57486	1	Standard
Cl	37		ug/L			2752571	3019293	1	Standard
Sc	45		ug/L			355422	528946	1	Standard
Cr	52	18.368	ug/L	0.616	3	14569	409577	3	Standard
Cr	53	18.990	ug/L	0.281	1	77	46410	3	Standard
Ge	72		ug/L			15567	17002	2	KED
Ni	60	14.193	ug/L	0.318	2	5	11316	0	KED
Ni	62	14.620	ug/L	0.349	2	2	1910	4	KED
Cu	63	33.374	ug/L	0.873	2	34	80610	0	KED
Cu	65	34.307	ug/L	1.840	5	12	40455	4	KED
Zn	66	67.702	ug/L	3.117	4	22	20053	2	KED
Zn	67	69.770	ug/L	4.368	6	6	3488	5	KED
As	75	9.197	ug/L	0.568	6	6	1433	4	KED
Se	78	1.544	ug/L	0.258	16	13	39	9	KED
Y	89		ug/L			215387	499448	2	Standard
Kr	83		ug/L			67	196	8	Standard
In-1	115		ug/L			5040	5280	1	KED
Cd	111	0.630	ug/L	0.057	9	2	119	8	KED
Cd	114	0.586	ug/L	0.089	15	6	282	14	KED
In	115		ug/L			372197	403515	1	Standard
Ag	107	0.515	ug/L	0.003	0	43	9068	1	Standard
Tb	159		ug/L			591249	657452	1	Standard
Pb	208	25.895	ug/L	0.580	2	143	1366141	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 06:36:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28184	61645	2	Standard
Cl	37		ug/L			2752571	3083962	0	Standard
> Sc	45		ug/L			355422	576475	2	Standard
Cr	52	16.633	ug/L	0.190	1	14569	406498	3	Standard
Cr	53	17.274	ug/L	0.344	1	77	46006	2	Standard
> Ge	72		ug/L			15567	16860	0	KED
Ni	60	15.504	ug/L	0.170	1	5	12261	1	KED
Ni	62	15.499	ug/L	0.242	1	2	2007	0	KED
Cu	63	34.505	ug/L	1.497	4	34	82692	5	KED
Cu	65	34.842	ug/L	0.887	2	12	40762	1	KED
Zn	66	65.632	ug/L	1.189	1	22	19293	2	KED
Zn	67	64.575	ug/L	2.935	4	6	3204	4	KED
As	75	9.471	ug/L	0.229	2	6	1464	1	KED
Se	78	2.376	ug/L	0.105	4	13	52	3	KED
Y	89		ug/L			215387	592266	1	Standard
Kr	83		ug/L			67	206	14	Standard
> In-1	115		ug/L			5040	5127	1	KED
Cd	111	0.519	ug/L	0.052	9	2	96	9	KED
Cd	114	0.589	ug/L	0.026	4	6	276	4	KED
> In	115		ug/L			372197	403574	1	Standard
Ag	107	0.316	ug/L	0.010	3	43	5596	3	Standard
> Tb	159		ug/L			591249	674756	2	Standard
Pb	208	15.352	ug/L	0.229	1	143	831329	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 06:41:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28184	57537	1	Standard
Cl	37		ug/L			2752571	3040610	3	Standard
> Sc	45		ug/L			355422	528272	1	Standard
Cr	52	15.920	ug/L	0.513	3	14569	357325	2	Standard
Cr	53	16.336	ug/L	0.582	3	77	39869	2	Standard
> Ge	72		ug/L			15567	16902	2	KED
Ni	60	14.632	ug/L	0.357	2	5	11600	2	KED
Ni	62	15.020	ug/L	0.553	3	2	1949	2	KED
Cu	63	36.152	ug/L	0.593	1	34	86819	1	KED
Cu	65	37.272	ug/L	1.447	3	12	43696	2	KED
Zn	66	75.125	ug/L	1.420	1	22	22127	0	KED
Zn	67	75.292	ug/L	1.623	2	6	3743	0	KED
As	75	7.914	ug/L	0.370	4	6	1227	2	KED
Se	78	1.919	ug/L	0.342	17	13	45	10	KED
Y	89		ug/L			215387	496556	1	Standard
Kr	83		ug/L			67	173	19	Standard
> In-1	115		ug/L			5040	5369	3	KED
Cd	111	0.331	ug/L	0.036	10	2	65	13	KED
Cd	114	0.260	ug/L	0.030	11	6	131	13	KED
> In	115		ug/L			372197	390915	2	Standard
Ag	107	0.270	ug/L	0.012	4	43	4633	5	Standard
> Tb	159		ug/L			591249	657944	1	Standard
Pb	208	31.494	ug/L	0.112	0	143	1663120	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 06:45:48
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28184	54001	1	Standard
Cl	37		ug/L			2752571	2964909	0	Standard
Sc	45		ug/L			355422	516674	2	Standard
Cr	52	13.692	ug/L	0.171	1	14569	303551	1	Standard
Cr	53	14.061	ug/L	0.229	1	77	33582	1	Standard
Ge	72		ug/L			15567	16636	1	KED
Ni	60	12.949	ug/L	0.227	1	5	10105	2	KED
Ni	62	12.759	ug/L	0.276	2	2	1631	3	KED
Cu	63	32.153	ug/L	1.223	3	34	75994	2	KED
Cu	65	33.299	ug/L	0.151	0	12	38445	1	KED
Zn	66	68.608	ug/L	2.710	3	22	19889	2	KED
Zn	67	70.346	ug/L	4.646	6	6	3441	5	KED
As	75	7.528	ug/L	0.086	1	6	1150	1	KED
Se	78	1.699	ug/L	0.247	14	13	41	8	KED
Y	89		ug/L			215387	483245	0	Standard
Kr	83		ug/L			67	166	4	Standard
In-1	115		ug/L			5040	5241	2	KED
Cd	111	0.269	ug/L	0.048	17	2	52	15	KED
Cd	114	0.282	ug/L	0.054	18	6	138	16	KED
In	115		ug/L			372197	398246	1	Standard
Ag	107	0.232	ug/L	0.006	2	43	4065	1	Standard
Tb	159		ug/L			591249	663665	2	Standard
Pb	208	27.615	ug/L	0.958	3	143	1470116	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 06:50:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28184	60218	2	Standard
Cl	37		ug/L			2752571	3048985	4	Standard
> Sc	45		ug/L			355422	534427	1	Standard
Cr	52	14.514	ug/L	0.167	1	14569	331551	0	Standard
Cr	53	15.007	ug/L	0.482	3	77	37072	3	Standard
> Ge	72		ug/L			15567	16785	1	KED
Ni	60	14.554	ug/L	0.108	0	5	11458	1	KED
Ni	62	14.717	ug/L	0.698	4	2	1897	4	KED
Cu	63	35.062	ug/L	1.193	3	34	83617	3	KED
Cu	65	35.112	ug/L	0.742	2	12	40894	1	KED
Zn	66	69.340	ug/L	1.397	2	22	20284	0	KED
Zn	67	69.655	ug/L	3.429	4	6	3438	3	KED
As	75	6.976	ug/L	0.278	3	6	1075	2	KED
Se	78	1.747	ug/L	0.215	12	13	42	8	KED
Y	89		ug/L			215387	489192	1	Standard
Kr	83		ug/L			67	188	9	Standard
> In-1	115		ug/L			5040	5276	0	KED
Cd	111	0.271	ug/L	0.014	5	2	53	4	KED
Cd	114	0.327	ug/L	0.039	11	6	160	11	KED
> In	115		ug/L			372197	403729	1	Standard
Ag	107	0.232	ug/L	0.006	2	43	4113	2	Standard
> Tb	159		ug/L			591249	667184	1	Standard
Pb	208	22.119	ug/L	0.437	1	143	1184380	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 06:55:03
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28184	61015	1	Standard
Cl	37		ug/L			2752571	3001854	4	Standard
> Sc	45		ug/L			355422	526243	1	Standard
Cr	52	15.249	ug/L	0.252	1	14569	341988	2	Standard
Cr	53	15.472	ug/L	0.380	2	77	37629	2	Standard
> Ge	72		ug/L			15567	17056	0	KED
Ni	60	16.362	ug/L	0.205	1	5	13089	0	KED
Ni	62	16.245	ug/L	0.248	1	2	2129	1	KED
Cu	63	31.526	ug/L	0.590	1	34	76422	2	KED
Cu	65	31.883	ug/L	1.014	3	12	37736	2	KED
Zn	66	56.912	ug/L	0.856	1	22	16925	1	KED
Zn	67	57.232	ug/L	1.108	1	6	2873	2	KED
As	75	6.632	ug/L	0.205	3	6	1040	3	KED
Se	78	1.523	ug/L	0.542	35	13	39	22	KED
Y	89		ug/L			215387	498678	1	Standard
Kr	83		ug/L			67	174	4	Standard
> In-1	115		ug/L			5040	5278	1	KED
Cd	111	0.210	ug/L	0.017	8	2	41	7	KED
Cd	114	0.191	ug/L	0.006	3	6	96	1	KED
> In	115		ug/L			372197	395078	1	Standard
Ag	107	0.170	ug/L	0.002	0	43	2962	0	Standard
> Tb	159		ug/L			591249	659808	2	Standard
Pb	208	14.611	ug/L	0.315	2	143	773647	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 06:59:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28184	61819	3	Standard
Cl	37		ug/L			2752571	3068837	5	Standard
> Sc	45		ug/L			355422	535254	4	Standard
Cr	52	12.528	ug/L	0.607	4	14569	289324	2	Standard
Cr	53	12.822	ug/L	0.218	1	77	31728	2	Standard
> Ge	72		ug/L			15567	17131	2	KED
Ni	60	11.710	ug/L	0.445	3	5	9405	1	KED
Ni	62	11.860	ug/L	0.477	4	2	1560	1	KED
Cu	63	31.521	ug/L	0.674	2	34	76731	2	KED
Cu	65	32.356	ug/L	1.452	4	12	38434	1	KED
Zn	66	67.966	ug/L	3.746	5	22	20279	3	KED
Zn	67	67.514	ug/L	1.976	2	6	3403	3	KED
As	75	7.848	ug/L	0.288	3	6	1234	1	KED
Se	78	1.646	ug/L	0.213	12	13	41	5	KED
Y	89		ug/L			215387	496512	1	Standard
Kr	83		ug/L			67	180	6	Standard
> In-1	115		ug/L			5040	5405	1	KED
Cd	111	0.372	ug/L	0.037	9	2	73	8	KED
Cd	114	0.307	ug/L	0.016	5	6	154	4	KED
> In	115		ug/L			372197	398133	1	Standard
Ag	107	0.238	ug/L	0.008	3	43	4166	3	Standard
> Tb	159		ug/L			591249	660993	1	Standard
Pb	208	23.146	ug/L	0.196	0	143	1228015	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-08
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 07:04:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28184	60564	3	Standard
	Cl	37		ug/L			2752571	3046385	4	Standard
>	Sc	45		ug/L			355422	516185	1	Standard
	Cr	52	13.330	ug/L	0.356	2	14569	295925	3	Standard
	Cr	53	13.488	ug/L	0.142	1	77	32194	1	Standard
>	Ge	72		ug/L			15567	17215	2	KED
	Ni	60	11.938	ug/L	0.494	4	5	9635	2	KED
	Ni	62	12.251	ug/L	1.263	10	2	1618	8	KED
	Cu	63	30.267	ug/L	0.382	1	34	74034	1	KED
	Cu	65	31.354	ug/L	0.803	2	12	37452	3	KED
	Zn	66	62.089	ug/L	1.316	2	22	18628	1	KED
	Zn	67	63.704	ug/L	1.734	2	6	3227	3	KED
	As	75	7.569	ug/L	0.108	1	6	1196	1	KED
	Se	78	1.868	ug/L	0.290	15	13	45	13	KED
	Y	89		ug/L			215387	495406	0	Standard
	Kr	83		ug/L			67	151	8	Standard
>	In-1	115		ug/L			5040	5244	1	KED
	Cd	111	0.315	ug/L	0.024	7	2	60	6	KED
	Cd	114	0.258	ug/L	0.011	4	6	127	5	KED
>	In	115		ug/L			372197	391488	1	Standard
	Ag	107	0.221	ug/L	0.013	5	43	3805	4	Standard
>	Tb	159		ug/L			591249	666476	1	Standard
	Pb	208	23.319	ug/L	0.618	2	143	1247251	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-09
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 05, 2023 07:08:55
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28184	60099	1	Standard
	Cl	37		ug/L			2752571	3019480	1	Standard
>	Sc	45		ug/L			355422	527680	0	Standard
	Cr	52	14.408	ug/L	0.300	2	14569	325194	2	Standard
	Cr	53	14.510	ug/L	0.181	1	77	35397	1	Standard
>	Ge	72		ug/L			15567	17162	2	KED
	Ni	60	13.709	ug/L	0.284	2	5	11032	0	KED
	Ni	62	13.770	ug/L	0.856	6	2	1815	5	KED
	Cu	63	26.015	ug/L	0.886	3	34	63451	3	KED
	Cu	65	25.700	ug/L	0.748	2	12	30605	2	KED
	Zn	66	58.004	ug/L	2.147	3	22	17351	3	KED
	Zn	67	58.210	ug/L	0.599	1	6	2941	3	KED
	As	75	6.463	ug/L	0.092	1	6	1019	2	KED
	Se	78	1.433	ug/L	0.236	16	13	38	11	KED
	Y	89		ug/L			215387	486723	2	Standard
	Kr	83		ug/L			67	159	11	Standard
>	In-1	115		ug/L			5040	5244	2	KED
	Cd	111	0.217	ug/L	0.021	9	2	42	6	KED
	Cd	114	0.192	ug/L	0.024	12	6	96	12	KED
>	In	115		ug/L			372197	394122	0	Standard
	Ag	107	0.137	ug/L	0.004	3	43	2394	3	Standard
>	Tb	159		ug/L			591249	655808	0	Standard
	Pb	208	13.936	ug/L	0.083	0	143	733663	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLG
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 07:13:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28184	31106	1	Standard
	Cl	**37**		ug/L			2752571	2863049	6	Standard
⌈>	**Sc**	**45**		ug/L			355422	375994	1	Standard
|	**Cr**	**52**	**0.028**	ug/L	0.028	101	14569	15827	2	Standard
⌊	**Cr**	**53**	**0.003**	ug/L	0.006	194	77	87	10	Standard
⌈>	**Ge**	**72**		ug/L			15567	16282	2	KED
|	**Ni**	**60**	**-0.002**	ug/L	0.002	75	5	4	24	KED
|	**Ni**	**62**	**0.014**	ug/L	0.034	246	2	4	98	KED
|	**Cu**	**63**	**-0.005**	ug/L	0.003	62	34	23	30	KED
|	**Cu**	**65**	**-0.000**	ug/L	0.006	14058	12	13	51	KED
|	**Zn**	**66**	**-0.010**	ug/L	0.024	235	22	20	31	KED
|	**Zn**	**67**	**-0.099**	ug/L	0.001	0	6	1		KED
|	**As**	**75**	**-0.014**	ug/L	0.013	98	6	4	40	KED
⌊	**Se**	**78**	**-0.246**	ug/L	0.153	62	13	10	20	KED
	Y	**89**		ug/L			215387	223704	5	Standard
	Kr	**83**		ug/L			67	67	11	Standard
⌈>	**In-1**	**115**		ug/L			5040	5284	3	KED
|	**Cd**	**111**	**0.003**	ug/L	0.006	211	2	3	34	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.008	1267	6	6	64	KED
⌈>	**In**	**115**		ug/L			372197	384030	3	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	42	43	33	14	Standard
⌈>	**Tb**	**159**		ug/L			591249	605242	3	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	49	143	155	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVJ
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 07:18:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28184	29901	2	Standard
	Cl	**37**		ug/L			2752571	3076852	1	Standard
⌈>	**Sc**	**45**		ug/L			355422	392437	5	Standard
|	**Cr**	**52**	**50.434**	ug/L	1.804	3	14569	805357	2	Standard
⌊	**Cr**	**53**	**51.425**	ug/L	1.723	3	77	92973	1	Standard
⌈>	**Ge**	**72**		ug/L			15567	16907	0	KED
|	**Ni**	**60**	**47.426**	ug/L	0.986	2	5	37596	1	KED
|	**Ni**	**62**	**46.592**	ug/L	0.509	1	2	6046	0	KED
|	**Cu**	**63**	**46.433**	ug/L	1.423	3	34	111535	2	KED
|	**Cu**	**65**	**46.152**	ug/L	1.308	2	12	54148	3	KED
|	**Zn**	**66**	**48.712**	ug/L	0.405	0	22	14363	0	KED
|	**Zn**	**67**	**49.729**	ug/L	2.496	5	6	2475	4	KED
|	**As**	**75**	**50.801**	ug/L	0.349	0	6	7849	0	KED
⌊	**Se**	**78**	**53.185**	ug/L	2.297	4	13	857	4	KED
	Y	**89**		ug/L			215387	232070	3	Standard
	Kr	**83**		ug/L			67	67	26	Standard
⌈>	**In-1**	**115**		ug/L			5040	5266	4	KED
|	**Cd**	**111**	**50.516**	ug/L	1.599	3	2	9350	2	KED
⌊	**Cd**	**114**	**49.800**	ug/L	2.290	4	6	23406	0	KED
⌈>	**In**	**115**		ug/L			372197	385330	2	Standard
⌊	**Ag**	**107**	**44.013**	ug/L	0.670	1	43	736647	1	Standard
⌈>	**Tb**	**159**		ug/L			591249	640212	2	Standard
⌊	**Pb**	**208**	**46.548**	ug/L	1.156	2	143	2390980	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBJ
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 07:25:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28184	29625	2	Standard
	Cl	**37**		ug/L			2752571	2928265	3	Standard
⌈>	**Sc**	**45**		ug/L			355422	379705	2	Standard
|	**Cr**	**52**	**0.003**	ug/L	0.044	1552	14569	15599	2	Standard
⌊	**Cr**	**53**	**0.008**	ug/L	0.009	107	77	96	14	Standard
⌈>	**Ge**	**72**		ug/L			15567	16328	2	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.003	87	5	3	50	KED
|	**Ni**	**62**	**-0.006**	ug/L	0.015	235	2	1	100	KED
|	**Cu**	**63**	**0.000**	ug/L	0.004	1479	34	36	30	KED
|	**Cu**	**65**	**0.007**	ug/L	0.007	108	12	20	41	KED
|	**Zn**	**66**	**0.487**	ug/L	0.026	5	22	162	6	KED
|	**Zn**	**67**	**0.459**	ug/L	0.120	26	6	28	17	KED
|	**As**	**75**	**-0.005**	ug/L	0.016	361	6	6	42	KED
⌊	**Se**	**78**	**-0.069**	ug/L	0.118	170	13	13	13	KED
	Y	**89**		ug/L			215387	219819	2	Standard
	Kr	**83**		ug/L			67	66	15	Standard
⌈>	**In-1**	**115**		ug/L			5040	5222	1	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.008	365	2	2	65	KED
⌊	**Cd**	**114**	**-0.007**	ug/L	0.002	30	6	3	34	KED
⌈>	**In**	**115**		ug/L			372197	383852	1	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.000	5	43	86	4	Standard
⌈>	**Tb**	**159**		ug/L			591249	606187	0	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.001	225	143	159	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 07:30:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				31024	3	Standard
	Cl	**37**		ug/L				2930075	1	Standard
⌈>	**Sc**	**45**		ug/L				376772	2	Standard
|	**Cr**	**52**		ug/L				15933	1	Standard
⌊	**Cr**	**53**		ug/L				78	4	Standard
⌈>	**Ge**	**72**		ug/L				15857	3	KED
|	**Ni**	**60**		ug/L				6	56	KED
|	**Ni**	**62**		ug/L				3	34	KED
|	**Cu**	**63**		ug/L				29	15	KED
|	**Cu**	**65**		ug/L				19	20	KED
|	**Zn**	**66**		ug/L				21	18	KED
|	**Zn**	**67**		ug/L				5	57	KED
|	**As**	**75**		ug/L				6	4	KED
⌊	**Se**	**78**		ug/L				11	27	KED
	Y	**89**		ug/L				221443	2	Standard
	Kr	**83**		ug/L				59	39	Standard
⌈>	**In-1**	**115**		ug/L				5077	1	KED
|	**Cd**	**111**		ug/L				4	48	KED
⌊	**Cd**	**114**		ug/L				3	91	KED
⌈>	**In**	**115**		ug/L				376191	0	Standard
⌊	**Ag**	**107**		ug/L				41	7	Standard
⌈>	**Tb**	**159**		ug/L				601972	3	Standard
⌊	**Pb**	**208**		ug/L				147	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVK
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 07:34:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31024	30371	3	Standard
	Cl	**37**		ug/L			2930075	3025025	2	Standard
⌈>	**Sc**	**45**		ug/L			376772	373443	1	Standard
|	**Cr**	**52**	**52.814**	ug/L	0.811	1	15933	803202	1	Standard
⌊	**Cr**	**53**	**53.834**	ug/L	0.311	0	78	92722	1	Standard
⌈>	**Ge**	**72**		ug/L			15857	15795	2	KED
|	**Ni**	**60**	**50.173**	ug/L	1.441	2	6	37144	0	KED
|	**Ni**	**62**	**47.811**	ug/L	0.638	1	3	5799	3	KED
|	**Cu**	**63**	**48.080**	ug/L	0.491	1	29	107887	1	KED
|	**Cu**	**65**	**49.374**	ug/L	1.050	2	19	54128	3	KED
|	**Zn**	**66**	**49.323**	ug/L	2.071	4	21	13576	1	KED
|	**Zn**	**67**	**53.019**	ug/L	2.229	4	5	2463	2	KED
|	**As**	**75**	**53.418**	ug/L	0.950	1	6	7707	0	KED
⌊	**Se**	**78**	**54.984**	ug/L	1.724	3	11	825	3	KED
	Y	**89**		ug/L			221443	227401	3	Standard
	Kr	**83**		ug/L			59	69	31	Standard
⌈>	**In-1**	**115**		ug/L			5077	5180	1	KED
|	**Cd**	**111**	**49.685**	ug/L	0.891	1	4	9054	1	KED
⌊	**Cd**	**114**	**49.118**	ug/L	0.703	1	3	22741	2	KED
⌈>	**In**	**115**		ug/L			376191	370208	1	Standard
⌊	**Ag**	**107**	**44.762**	ug/L	0.962	2	41	719893	1	Standard
⌈>	**Tb**	**159**		ug/L			601972	616847	2	Standard
⌊	**Pb**	**208**	**47.984**	ug/L	1.413	2	147	2374721	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBK
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 07:42:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31024	29990	5	Standard
	Cl	**37**		ug/L			2930075	2936855	4	Standard
⌈>	**Sc**	**45**		ug/L			376772	376569	1	Standard
|	**Cr**	**52**	**0.003**	ug/L	0.050	1693	15933	15976	6	Standard
⌊	**Cr**	**53**	**0.009**	ug/L	0.007	76	78	93	10	Standard
⌈>	**Ge**	**72**		ug/L			15857	16001	0	KED
|	**Ni**	**60**	**-0.004**	ug/L	0.003	57	6	3	50	KED
|	**Ni**	**62**	**-0.005**	ug/L	0.024	455	3	2	114	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.006	246	29	24	52	KED
|	**Cu**	**65**	**-0.013**	ug/L	0.005	35	19	5	88	KED
|	**Zn**	**66**	**-0.053**	ug/L	0.010	19	21	6	41	KED
|	**Zn**	**67**	**-0.028**	ug/L	0.046	162	5	4	49	KED
|	**As**	**75**	**-0.003**	ug/L	0.014	527	6	5	36	KED
⌊	**Se**	**78**	**-0.019**	ug/L	0.057	301	11	11	6	KED
	Y	**89**		ug/L			221443	219642	1	Standard
	Kr	**83**		ug/L			59	59	5	Standard
⌈>	**In-1**	**115**		ug/L			5077	5224	2	KED
|	**Cd**	**111**	**0.003**	ug/L	0.018	692	4	4	69	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.007	12107	3	3	86	KED
⌈>	**In**	**115**		ug/L			376191	382041	2	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.000	17	41	75	10	Standard
⌈>	**Tb**	**159**		ug/L			601972	601304	1	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	79	147	119	18	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0444-04
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 07:46:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31024	45394	4	Standard
	Cl	**37**		ug/L			2930075	3167177	0	Standard
⌈>	**Sc**	**45**		ug/L			376772	457827	0	Standard
|	**Cr**	**52**	**0.238**	ug/L	0.047	19	15933	23720	4	Standard
⌊	**Cr**	**53**	**0.829**	ug/L	0.029	3	78	1844	3	Standard
⌈>	**Ge**	**72**		ug/L			15857	16445	1	KED
|	**Ni**	**60**	**0.616**	ug/L	0.018	2	6	481	1	KED
|	**Ni**	**62**	**0.593**	ug/L	0.007	1	3	78	0	KED
|	**Cu**	**63**	**1.195**	ug/L	0.013	1	29	2821	0	KED
|	**Cu**	**65**	**1.230**	ug/L	0.025	2	19	1423	0	KED
|	**Zn**	**66**	**2.159**	ug/L	0.169	7	21	640	7	KED
|	**Zn**	**67**	**2.719**	ug/L	0.326	12	5	137	10	KED
|	**As**	**75**	**0.489**	ug/L	0.029	5	6	79	5	KED
⌊	**Se**	**78**	**-0.016**	ug/L	0.042	265	11	11	4	KED
	Y	**89**		ug/L			221443	242506	0	Standard
	Kr	**83**		ug/L			59	67	9	Standard
⌈>	**In-1**	**115**		ug/L			5077	5294	2	KED
|	**Cd**	**111**	**-0.010**	ug/L	0.005	56	4	2	43	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.007	4439	3	3	89	KED
⌈>	**In**	**115**		ug/L			376191	393560	0	Standard
⌊	**Ag**	**107**	**0.004**	ug/L	0.001	27	41	111	17	Standard
⌈>	**Tb**	**159**		ug/L			601972	633821	0	Standard
⌊	**Pb**	**208**	**0.058**	ug/L	0.002	3	147	3103	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0444-06
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 07:51:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31024	41628	2	Standard
	Cl	**37**		ug/L			2930075	3183365	2	Standard
⌈>	**Sc**	**45**		ug/L			376772	434037	2	Standard
|	**Cr**	**52**	**0.433**	ug/L	0.016	3	15933	25862	2	Standard
⌊	**Cr**	**53**	**1.024**	ug/L	0.028	2	78	2137	0	Standard
⌈>	**Ge**	**72**		ug/L			15857	16463	0	KED
|	**Ni**	**60**	**0.196**	ug/L	0.013	6	6	158	6	KED
|	**Ni**	**62**	**0.210**	ug/L	0.022	10	3	29	9	KED
|	**Cu**	**63**	**0.221**	ug/L	0.018	8	29	547	8	KED
|	**Cu**	**65**	**0.236**	ug/L	0.011	4	19	289	3	KED
|	**Zn**	**66**	**0.756**	ug/L	0.094	12	21	239	12	KED
|	**Zn**	**67**	**1.045**	ug/L	0.294	28	5	56	25	KED
|	**As**	**75**	**0.560**	ug/L	0.044	7	6	90	7	KED
⌊	**Se**	**78**	**-0.083**	ug/L	0.209	252	11	10	31	KED
	Y	**89**		ug/L			221443	232125	2	Standard
	Kr	**83**		ug/L			59	71	1	Standard
⌈>	**In-1**	**115**		ug/L			5077	5120	2	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.011	3027	4	4	48	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.006	166	3	1	149	KED
⌈>	**In**	**115**		ug/L			376191	386311	0	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	51	41	69	20	Standard
⌈>	**Tb**	**159**		ug/L			601972	621178	0	Standard
⌊	**Pb**	**208**	**0.017**	ug/L	0.001	6	147	1013	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0444-08
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 07:56:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31024	44179	3	Standard
	Cl	**37**		ug/L			2930075	3091805	2	Standard
⌈>	**Sc**	**45**		ug/L			376772	440714	2	Standard
|	**Cr**	**52**	**0.243**	ug/L	0.014	5	15933	22914	2	Standard
⌊	**Cr**	**53**	**0.822**	ug/L	0.047	5	78	1759	2	Standard
⌈>	**Ge**	**72**		ug/L			15857	16155	1	KED
|	**Ni**	**60**	**0.305**	ug/L	0.036	11	6	237	9	KED
|	**Ni**	**62**	**0.409**	ug/L	0.046	11	3	53	10	KED
|	**Cu**	**63**	**0.793**	ug/L	0.018	2	29	1849	3	KED
|	**Cu**	**65**	**0.810**	ug/L	0.012	1	19	928	3	KED
|	**Zn**	**66**	**1.587**	ug/L	0.192	12	21	468	12	KED
|	**Zn**	**67**	**2.231**	ug/L	0.123	5	5	111	6	KED
|	**As**	**75**	**0.711**	ug/L	0.023	3	6	110	1	KED
⌊	**Se**	**78**	**0.177**	ug/L	0.190	107	11	14	19	KED
	Y	**89**		ug/L			221443	234473	0	Standard
	Kr	**83**		ug/L			59	59	11	Standard
⌈>	**In-1**	**115**		ug/L			5077	5191	1	KED
|	**Cd**	**111**	**-0.014**	ug/L	0.008	54	4	1	91	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.004	2575	3	3	51	KED
⌈>	**In**	**115**		ug/L			376191	393034	1	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	189	41	48	19	Standard
⌈>	**Tb**	**159**		ug/L			601972	633989	3	Standard
⌊	**Pb**	**208**	**0.045**	ug/L	0.002	4	147	2462	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0444-10
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 08:02:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31024	44286	1	Standard
	Cl	**37**		ug/L			2930075	3072270	4	Standard
⌈>	**Sc**	**45**		ug/L			376772	430955	1	Standard
|	**Cr**	**52**	**0.263**	ug/L	0.026	9	15933	22747	3	Standard
⌊	**Cr**	**53**	**0.872**	ug/L	0.022	2	78	1820	1	Standard
⌈>	**Ge**	**72**		ug/L			15857	16206	1	KED
|	**Ni**	**60**	**0.374**	ug/L	0.023	6	6	291	7	KED
|	**Ni**	**62**	**0.418**	ug/L	0.119	28	3	55	27	KED
|	**Cu**	**63**	**0.664**	ug/L	0.006	0	29	1558	2	KED
|	**Cu**	**65**	**0.607**	ug/L	0.031	5	19	702	4	KED
|	**Zn**	**66**	**1.720**	ug/L	0.054	3	21	507	3	KED
|	**Zn**	**67**	**2.414**	ug/L	0.416	17	5	120	15	KED
|	**As**	**75**	**0.453**	ug/L	0.031	6	6	73	7	KED
⌊	**Se**	**78**	**0.009**	ug/L	0.190	2173	11	11	22	KED
	Y	**89**		ug/L			221443	231204	1	Standard
	Kr	**83**		ug/L			59	70	11	Standard
⌈>	**In-1**	**115**		ug/L			5077	5103	2	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.003	2288	4	4	13	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.004	1964	3	3	56	KED
⌈>	**In**	**115**		ug/L			376191	386050	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	77	41	52	16	Standard
⌈>	**Tb**	**159**		ug/L			601972	636601	1	Standard
⌊	**Pb**	**208**	**0.025**	ug/L	0.001	5	147	1415	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLH
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 08:07:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31024	29859	1	Standard
	Cl	**37**		ug/L			2930075	2910093	2	Standard
⌈>	**Sc**	**45**		ug/L			376772	375487	1	Standard
|	**Cr**	**52**	**0.035**	ug/L	0.016	46	15933	16397	1	Standard
⌊	**Cr**	**53**	**0.038**	ug/L	0.018	48	78	143	23	Standard
⌈>	**Ge**	**72**		ug/L			15857	15841	0	KED
|	**Ni**	**60**	**0.002**	ug/L	0.003	171	6	8	26	KED
|	**Ni**	**62**	**0.011**	ug/L	0.018	173	3	4	49	KED
|	**Cu**	**63**	**-0.003**	ug/L	0.003	104	29	23	26	KED
|	**Cu**	**65**	**-0.007**	ug/L	0.005	61	19	11	44	KED
|	**Zn**	**66**	**0.009**	ug/L	0.038	410	21	24	43	KED
|	**Zn**	**67**	**-0.041**	ug/L	0.041	101	5	3	50	KED
|	**As**	**75**	**-0.009**	ug/L	0.018	205	6	4	55	KED
⌊	**Se**	**78**	**0.004**	ug/L	0.111	3040	11	11	13	KED
	Y	**89**		ug/L			221443	218608	3	Standard
	Kr	**83**		ug/L			59	57	29	Standard
⌈>	**In-1**	**115**		ug/L			5077	4874	5	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.005	635	4	3	25	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.005	541	3	3	71	KED
⌈>	**In**	**115**		ug/L			376191	377925	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	19	41	30	6	Standard
⌈>	**Tb**	**159**		ug/L			601972	594812	0	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	126	147	132	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0444-12
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 08:11:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31024	42073	2	Standard
	Cl	**37**		ug/L			2930075	3159965	4	Standard
⌈>	**Sc**	**45**		ug/L			376772	435268	3	Standard
|	**Cr**	**52**	**0.198**	ug/L	0.039	19	15933	21838	0	Standard
⌊	**Cr**	**53**	**0.834**	ug/L	0.037	4	78	1762	0	Standard
⌈>	**Ge**	**72**		ug/L			15857	16185	1	KED
|	**Ni**	**60**	**0.424**	ug/L	0.017	4	6	328	4	KED
|	**Ni**	**62**	**0.495**	ug/L	0.023	4	3	64	5	KED
|	**Cu**	**63**	**0.601**	ug/L	0.007	1	29	1412	1	KED
|	**Cu**	**65**	**0.644**	ug/L	0.078	12	19	743	11	KED
|	**Zn**	**66**	**1.783**	ug/L	0.069	3	21	524	4	KED
|	**Zn**	**67**	**2.670**	ug/L	0.252	9	5	132	8	KED
|	**As**	**75**	**0.399**	ug/L	0.041	10	6	65	8	KED
⌊	**Se**	**78**	**0.177**	ug/L	0.054	30	11	14	6	KED
	Y	**89**		ug/L			221443	229187	0	Standard
	Kr	**83**		ug/L			59	62	9	Standard
⌈>	**In-1**	**115**		ug/L			5077	4986	2	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.005	340	4	3	25	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.005	122	3	5	37	KED
⌈>	**In**	**115**		ug/L			376191	382351	0	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	131	41	52	26	Standard
⌈>	**Tb**	**159**		ug/L			601972	622052	2	Standard
⌊	**Pb**	**208**	**0.035**	ug/L	0.001	3	147	1904	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0444-02
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 08:16:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31024	45685	1	Standard
	Cl	**37**		ug/L			2930075	3065590	0	Standard
⌈>	**Sc**	**45**		ug/L			376772	435230	3	Standard
|	**Cr**	**52**	**0.340**	ug/L	0.024	6	15933	24304	2	Standard
⌊	**Cr**	**53**	**0.943**	ug/L	0.049	5	78	1982	6	Standard
⌈>	**Ge**	**72**		ug/L			15857	16074	1	KED
|	**Ni**	**60**	**0.224**	ug/L	0.019	8	6	175	8	KED
|	**Ni**	**62**	**0.164**	ug/L	0.012	7	3	23	4	KED
|	**Cu**	**63**	**0.658**	ug/L	0.025	3	29	1532	2	KED
|	**Cu**	**65**	**0.667**	ug/L	0.042	6	19	763	7	KED
|	**Zn**	**66**	**1.190**	ug/L	0.113	9	21	354	8	KED
|	**Zn**	**67**	**1.879**	ug/L	0.247	13	5	94	13	KED
|	**As**	**75**	**0.547**	ug/L	0.068	12	6	86	11	KED
⌊	**Se**	**78**	**0.141**	ug/L	0.251	178	11	13	26	KED
	Y	**89**		ug/L			221443	234404	2	Standard
	Kr	**83**		ug/L			59	71	29	Standard
⌈>	**In-1**	**115**		ug/L			5077	5153	0	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.020	514	4	3	103	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.007	271	3	4	63	KED
⌈>	**In**	**115**		ug/L			376191	383913	0	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.000	27	41	71	10	Standard
⌈>	**Tb**	**159**		ug/L			601972	625017	1	Standard
⌊	**Pb**	**208**	**0.059**	ug/L	0.003	5	147	3090	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0048-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 08:21:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31024	43197	5	Standard
	Cl	**37**		ug/L			2930075	3214479	2	Standard
⌈>	**Sc**	**45**		ug/L			376772	440819	2	Standard
|	**Cr**	**52**	**0.273**	ug/L	0.036	13	15933	23443	1	Standard
⌊	**Cr**	**53**	**0.920**	ug/L	0.005	0	78	1959	2	Standard
⌈>	**Ge**	**72**		ug/L			15857	16481	2	KED
|	**Ni**	**60**	**0.240**	ug/L	0.033	13	6	193	14	KED
|	**Ni**	**62**	**0.234**	ug/L	0.080	34	3	33	32	KED
|	**Cu**	**63**	**0.663**	ug/L	0.021	3	29	1581	0	KED
|	**Cu**	**65**	**0.690**	ug/L	0.033	4	19	808	2	KED
|	**Zn**	**66**	**2.207**	ug/L	0.174	7	21	655	6	KED
|	**Zn**	**67**	**2.466**	ug/L	0.299	12	5	125	9	KED
|	**As**	**75**	**0.521**	ug/L	0.048	9	6	84	8	KED
⌊	**Se**	**78**	**0.030**	ug/L	0.034	113	11	12	2	KED
	Y	**89**		ug/L			221443	232780	2	Standard
	Kr	**83**		ug/L			59	63	27	Standard
⌈>	**In-1**	**115**		ug/L			5077	5165	3	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.008	1833	4	4	35	KED
⌊	**Cd**	**114**	**-0.007**	ug/L	0.003	35	3	0	340	KED
⌈>	**In**	**115**		ug/L			376191	394303	2	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.000	23	41	78	12	Standard
⌈>	**Tb**	**159**		ug/L			601972	630133	1	Standard
⌊	**Pb**	**208**	**0.055**	ug/L	0.002	3	147	2941	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0048-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 08:27:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31024	41899	2	Standard
	Cl	**37**		ug/L			2930075	3104777	0	Standard
⌈>	**Sc**	**45**		ug/L			376772	437132	0	Standard
|	**Cr**	**52**	**23.105**	ug/L	0.782	3	15933	421703	3	Standard
⌊	**Cr**	**53**	**24.266**	ug/L	0.500	2	78	48973	2	Standard
⌈>	**Ge**	**72**		ug/L			15857	16655	1	KED
|	**Ni**	**60**	**23.686**	ug/L	0.084	0	6	18502	1	KED
|	**Ni**	**62**	**24.283**	ug/L	0.634	2	3	3106	2	KED
|	**Cu**	**63**	**24.131**	ug/L	0.414	1	29	57130	3	KED
|	**Cu**	**65**	**24.628**	ug/L	0.277	1	19	28476	1	KED
|	**Zn**	**66**	**75.872**	ug/L	1.936	2	21	22018	1	KED
|	**Zn**	**67**	**72.352**	ug/L	1.673	2	5	3545	3	KED
|	**As**	**75**	**25.710**	ug/L	0.097	0	6	3916	1	KED
⌊	**Se**	**78**	**81.062**	ug/L	1.279	1	11	1277	1	KED
	Y	**89**		ug/L			221443	229992	4	Standard
	Kr	**83**		ug/L			59	68	19	Standard
⌈>	**In-1**	**115**		ug/L			5077	5243	2	KED
|	**Cd**	**111**	**24.400**	ug/L	0.665	2	4	4501	1	KED
⌊	**Cd**	**114**	**24.532**	ug/L	0.612	2	3	11493	2	KED
⌈>	**In**	**115**		ug/L			376191	390522	1	Standard
⌊	**Ag**	**107**	**21.657**	ug/L	0.129	0	41	367454	1	Standard
⌈>	**Tb**	**159**		ug/L			601972	631527	1	Standard
⌊	**Pb**	**208**	**23.589**	ug/L	0.273	1	147	1195615	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 08:31:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31024	29625	2	Standard
	Cl	**37**		ug/L			2930075	3018446	3	Standard
⌈>	**Sc**	**45**		ug/L			376772	381579	1	Standard
|	**Cr**	**52**	**0.030**	ug/L	0.029	93	15933	16600	3	Standard
⌊	**Cr**	**53**	**0.034**	ug/L	0.004	11	78	140	4	Standard
⌈>	**Ge**	**72**		ug/L			15857	16405	2	KED
|	**Ni**	**60**	**-0.005**	ug/L	0.003	56	6	3	69	KED
|	**Ni**	**62**	**-0.011**	ug/L	0.015	141	3	1	100	KED
|	**Cu**	**63**	**-0.003**	ug/L	0.005	209	29	24	51	KED
|	**Cu**	**65**	**-0.008**	ug/L	0.004	51	19	10	44	KED
|	**Zn**	**66**	**-0.005**	ug/L	0.002	36	21	20	0	KED
|	**Zn**	**67**	**0.010**	ug/L	0.142	1457	5	6	105	KED
|	**As**	**75**	**-0.014**	ug/L	0.021	147	6	4	74	KED
⌊	**Se**	**78**	**-0.096**	ug/L	0.120	125	11	10	16	KED
	Y	**89**		ug/L			221443	219673	1	Standard
	Kr	**83**		ug/L			59	74	31	Standard
⌈>	**In-1**	**115**		ug/L			5077	5072	2	KED
|	**Cd**	**111**	**-0.014**	ug/L	0.003	22	4	1	34	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.006	465	3	3	97	KED
⌈>	**In**	**115**		ug/L			376191	386574	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	24	41	65	8	Standard
⌈>	**Tb**	**159**		ug/L			601972	607366	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	61	147	198	14	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVL
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 08:36:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31024	29124	2	Standard
	Cl	**37**		ug/L			2930075	3143145	2	Standard
⌈>	**Sc**	**45**		ug/L			376772	388457	2	Standard
|	**Cr**	**52**	**49.914**	ug/L	1.638	3	15933	790058	1	Standard
⌊	**Cr**	**53**	**51.587**	ug/L	1.619	3	78	92390	2	Standard
⌈>	**Ge**	**72**		ug/L			15857	16373	2	KED
|	**Ni**	**60**	**47.805**	ug/L	1.071	2	6	36694	0	KED
|	**Ni**	**62**	**47.839**	ug/L	1.124	2	3	6014	3	KED
|	**Cu**	**63**	**47.117**	ug/L	0.842	1	29	109601	1	KED
|	**Cu**	**65**	**48.382**	ug/L	1.489	3	19	54977	3	KED
|	**Zn**	**66**	**48.709**	ug/L	0.965	1	21	13904	0	KED
|	**Zn**	**67**	**50.747**	ug/L	0.882	1	5	2445	1	KED
|	**As**	**75**	**51.991**	ug/L	0.990	1	6	7777	0	KED
⌊	**Se**	**78**	**54.155**	ug/L	1.484	2	11	842	0	KED
	Y	**89**		ug/L			221443	226887	0	Standard
	Kr	**83**		ug/L			59	69	27	Standard
⌈>	**In-1**	**115**		ug/L			5077	5227	1	KED
|	**Cd**	**111**	**49.957**	ug/L	1.452	2	4	9185	1	KED
⌊	**Cd**	**114**	**49.079**	ug/L	1.033	2	3	22924	2	KED
⌈>	**In**	**115**		ug/L			376191	390505	2	Standard
⌊	**Ag**	**107**	**42.603**	ug/L	1.747	4	41	722393	2	Standard
⌈>	**Tb**	**159**		ug/L			601972	623542	1	Standard
⌊	**Pb**	**208**	**47.495**	ug/L	0.907	1	147	2376623	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBL
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 08:43:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31024	29207	3	Standard
	Cl	**37**		ug/L			2930075	2854244	2	Standard
⌈>	**Sc**	**45**		ug/L			376772	367447	3	Standard
|	**Cr**	**52**	**0.032**	ug/L	0.016	51	15933	16008	2	Standard
⌊	**Cr**	**53**	**0.026**	ug/L	0.004	15	78	121	8	Standard
⌈>	**Ge**	**72**		ug/L			15857	16081	3	KED
|	**Ni**	**60**	**-0.001**	ug/L	0.005	506	6	6	62	KED
|	**Ni**	**62**	**0.015**	ug/L	0.008	53	3	5	21	KED
|	**Cu**	**63**	**-0.003**	ug/L	0.002	84	29	23	26	KED
|	**Cu**	**65**	**-0.007**	ug/L	0.003	48	19	12	32	KED
|	**Zn**	**66**	**-0.039**	ug/L	0.015	39	21	10	36	KED
|	**Zn**	**67**	**-0.042**	ug/L	0.040	95	5	3	50	KED
|	**As**	**75**	**0.004**	ug/L	0.020	447	6	6	46	KED
⌊	**Se**	**78**	**0.252**	ug/L	0.095	37	11	15	6	KED
	Y	**89**		ug/L			221443	223331	1	Standard
	Kr	**83**		ug/L			59	64	16	Standard
⌈>	**In-1**	**115**		ug/L			5077	5092	1	KED
|	**Cd**	**111**	**-0.009**	ug/L	0.013	151	4	2	94	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.003	93	3	2	48	KED
⌈>	**In**	**115**		ug/L			376191	383623	0	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	30	41	75	13	Standard
⌈>	**Tb**	**159**		ug/L			601972	594545	1	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	51	147	119	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0402-02
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 08:48:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31024	46521	0	Standard
Cl	37		ug/L			2930075	3787267	1	Standard
> Sc	45		ug/L			376772	641294	1	Standard
Cr	52	6.459	ug/L	0.100	1	15933	192447	0	Standard
Cr	53	7.833	ug/L	0.030	0	78	23280	1	Standard
> Ge	72		ug/L			15857	16731	1	KED
Ni	60	8.306	ug/L	0.057	0	6	6523	1	KED
Ni	62	8.193	ug/L	0.334	4	3	1055	4	KED
Cu	63	0.734	ug/L	0.051	6	29	1776	7	KED
Cu	65	0.677	ug/L	0.045	6	19	807	6	KED
Zn	66	4.954	ug/L	0.123	2	21	1466	2	KED
Zn	67	6.860	ug/L	0.750	10	5	342	9	KED
As	75	0.491	ug/L	0.007	1	6	81	1	KED
Se	78	0.051	ug/L	0.095	185	11	13	11	KED
Y	89		ug/L			221443	247861	2	Standard
Kr	83		ug/L			59	76	12	Standard
> In-1	115		ug/L			5077	5355	2	KED
Cd	111	0.004	ug/L	0.008	210	4	5	28	KED
Cd	114	0.018	ug/L	0.020	111	3	12	75	KED
> In	115		ug/L			376191	394572	3	Standard
Ag	107	0.012	ug/L	0.002	13	41	240	8	Standard
> Tb	159		ug/L			601972	663742	2	Standard
Pb	208	0.576	ug/L	0.023	4	147	30818	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0402-05
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 08:53:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31024	62386	2	Standard
Cl	37		ug/L			2930075	3165223	2	Standard
> Sc	45		ug/L			376772	550424	1	Standard
Cr	52	1.144	ug/L	0.038	3	15933	48429	2	Standard
Cr	53	1.454	ug/L	0.032	2	78	3801	1	Standard
> Ge	72		ug/L			15857	14133	0	KED
Ni	60	24.899	ug/L	0.357	1	6	16505	1	KED
Ni	62	25.478	ug/L	1.081	4	3	2765	4	KED
Cu	63	4.147	ug/L	0.038	0	29	8352	1	KED
Cu	65	4.240	ug/L	0.051	1	19	4175	2	KED
Zn	66	3.919	ug/L	0.214	5	21	983	5	KED
Zn	67	9.818	ug/L	0.316	3	5	412	3	KED
As	75	0.647	ug/L	0.007	1	6	88	1	KED
Se	78	0.699	ug/L	0.068	9	11	19	5	KED
Y	89		ug/L			221443	346528	2	Standard
Kr	83		ug/L			59	107	18	Standard
> In-1	115		ug/L			5077	4682	0	KED
Cd	111	0.303	ug/L	0.061	20	4	53	17	KED
Cd	114	0.340	ug/L	0.053	15	3	145	16	KED
> In	115		ug/L			376191	347970	1	Standard
Ag	107	0.016	ug/L	0.002	13	41	279	10	Standard
> Tb	159		ug/L			601972	597021	0	Standard
Pb	208	0.118	ug/L	0.002	1	147	5824	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0402-07
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 08:58:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31024	64022	3	Standard
Cl	37		ug/L			2930075	3679174	0	Standard
> Sc	45		ug/L			376772	871891	2	Standard
Cr	52	0.466	ug/L	0.013	2	15933	53090	2	Standard
Cr	53	1.295	ug/L	0.040	3	78	5386	4	Standard
> Ge	72		ug/L			15857	15079	1	KED
Ni	60	62.450	ug/L	1.344	2	6	44155	2	KED
Ni	62	62.444	ug/L	1.379	2	3	7227	1	KED
Cu	63	3.202	ug/L	0.081	2	29	6885	2	KED
Cu	65	3.190	ug/L	0.150	4	19	3354	3	KED
Zn	66	1.793	ug/L	0.045	2	21	491	3	KED
Zn	67	7.490	ug/L	0.636	8	5	337	8	KED
As	75	9.668	ug/L	0.204	2	6	1336	1	KED
Se	78	0.422	ug/L	0.218	51	11	16	17	KED
Y	89		ug/L			221443	268006	0	Standard
Kr	83		ug/L			59	108	16	Standard
> In-1	115		ug/L			5077	4910	1	KED
Cd	111	0.188	ug/L	0.045	23	4	36	22	KED
Cd	114	0.187	ug/L	0.031	16	3	85	16	KED
> In	115		ug/L			376191	364668	1	Standard
Ag	107	0.002	ug/L	0.001	60	41	65	22	Standard
> Tb	159		ug/L			601972	614158	0	Standard
Pb	208	0.043	ug/L	0.001	1	147	2286	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0402-09
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 09:04:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31024	62190	0	Standard
Cl	37		ug/L			2930075	3696540	3	Standard
> Sc	45		ug/L			376772	857930	2	Standard
Cr	52	**0.127**	ug/L	0.021	16	15933	40630	1	Standard
Cr	53	**0.948**	ug/L	0.010	1	78	3925	2	Standard
> Ge	72		ug/L			15857	15119	1	KED
Ni	60	**57.062**	ug/L	0.471	0	6	40454	1	KED
Ni	62	**56.854**	ug/L	1.496	2	3	6600	3	KED
Cu	63	**3.121**	ug/L	0.056	1	29	6730	0	KED
Cu	65	**3.192**	ug/L	0.072	2	19	3366	1	KED
Zn	66	**2.995**	ug/L	0.225	7	21	809	8	KED
Zn	67	**8.398**	ug/L	0.568	6	5	378	7	KED
As	75	**9.306**	ug/L	0.127	1	6	1290	3	KED
Se	78	**0.479**	ug/L	0.187	39	11	17	16	KED
Y	89		ug/L			221443	260806	1	Standard
Kr	83		ug/L			59	102	9	Standard
> In-1	115		ug/L			5077	4889	3	KED
Cd	111	**0.202**	ug/L	0.077	38	4	38	29	KED
Cd	114	**0.186**	ug/L	0.017	9	3	84	4	KED
> In	115		ug/L			376191	368046	2	Standard
Ag	107	**0.006**	ug/L	0.000	7	41	130	7	Standard
> Tb	159		ug/L			601972	630017	1	Standard
Pb	208	**0.096**	ug/L	0.002	1	147	5007	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLJ
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 09:08:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31024	29501	0	Standard
	Cl	**37**		ug/L			2930075	3017023	1	Standard
⎡>	**Sc**	**45**		ug/L			376772	370611	3	Standard
⎢	**Cr**	**52**	**0.050**	ug/L	0.006	12	15933	16415	2	Standard
⎣	**Cr**	**53**	**0.067**	ug/L	0.013	18	78	192	8	Standard
⎡>	**Ge**	**72**		ug/L			15857	17174	2	KED
⎢	**Ni**	**60**	**-0.003**	ug/L	0.005	171	6	5	78	KED
⎢	**Ni**	**62**	**-0.002**	ug/L	0.016	800	3	3	69	KED
⎢	**Cu**	**63**	**-0.003**	ug/L	0.002	82	29	24	20	KED
⎢	**Cu**	**65**	**-0.001**	ug/L	0.004	552	19	20	23	KED
⎢	**Zn**	**66**	**0.012**	ug/L	0.039	314	21	27	44	KED
⎢	**Zn**	**67**	**-0.047**	ug/L	0.002	4	5	3	0	KED
⎢	**As**	**75**	**-0.008**	ug/L	0.010	123	6	5	32	KED
⎣	**Se**	**78**	**-0.139**	ug/L	0.117	84	11	10	16	KED
	Y	**89**		ug/L			221443	220640	0	Standard
	Kr	**83**		ug/L			59	53	13	Standard
⎡>	**In-1**	**115**		ug/L			5077	5439	1	KED
⎢	**Cd**	**111**	**-0.005**	ug/L	0.006	123	4	3	31	KED
⎣	**Cd**	**114**	**-0.004**	ug/L	0.004	90	3	1	111	KED
⎡>	**In**	**115**		ug/L			376191	395275	2	Standard
⎣	**Ag**	**107**	**-0.000**	ug/L	0.001	142	41	35	34	Standard
⎡>	**Tb**	**159**		ug/L			601972	632725	1	Standard
⎣	**Pb**	**208**	**0.001**	ug/L	0.000	42	147	203	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0402-11
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 09:13:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31024	57534	4	Standard
Cl	37		ug/L			2930075	3567877	2	Standard
> Sc	45		ug/L			376772	746980	2	Standard
Cr	52	0.316	ug/L	0.047	14	15933	40996	2	Standard
Cr	53	0.863	ug/L	0.033	3	78	3124	2	Standard
> Ge	72		ug/L			15857	15648	1	KED
Ni	60	89.330	ug/L	0.816	0	6	65543	1	KED
Ni	62	89.742	ug/L	0.899	1	3	10778	0	KED
Cu	63	2.850	ug/L	0.045	1	29	6363	1	KED
Cu	65	2.935	ug/L	0.110	3	19	3206	4	KED
Zn	66	2.687	ug/L	0.144	5	21	753	4	KED
Zn	67	12.024	ug/L	0.395	3	5	558	2	KED
As	75	1.659	ug/L	0.057	3	6	242	1	KED
Se	78	0.271	ug/L	0.090	33	11	15	7	KED
Y	89		ug/L			221443	259360	1	Standard
Kr	83		ug/L			59	100	4	Standard
> In-1	115		ug/L			5077	5136	2	KED
Cd	111	0.121	ug/L	0.042	34	4	26	27	KED
Cd	114	0.097	ug/L	0.030	30	3	48	29	KED
> In	115		ug/L			376191	376488	2	Standard
Ag	107	0.004	ug/L	0.000	1	41	113	1	Standard
> Tb	159		ug/L			601972	647995	1	Standard
Pb	208	0.047	ug/L	0.002	3	147	2577	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0402-03
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 09:18:03
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31024	41926	3	Standard
Cl	37		ug/L			2930075	3556184	3	Standard
Sc	45		ug/L			376772	674908	0	Standard
Cr	52	17.188	ug/L	0.284	1	15933	491652	1	Standard
Cr	53	18.131	ug/L	0.080	0	78	56528	0	Standard
Ge	72		ug/L			15857	17994	1	KED
Ni	60	10.672	ug/L	0.043	0	6	9011	1	KED
Ni	62	10.793	ug/L	0.294	2	3	1494	3	KED
Cu	63	1.379	ug/L	0.041	2	29	3556	2	KED
Cu	65	1.416	ug/L	0.071	5	19	1789	4	KED
Zn	66	3.102	ug/L	0.084	2	21	996	1	KED
Zn	67	5.105	ug/L	0.689	13	5	276	12	KED
As	75	0.904	ug/L	0.092	10	6	155	9	KED
Se	78	0.111	ug/L	0.091	82	11	15	10	KED
Y	89		ug/L			221443	258587	1	Standard
Kr	83		ug/L			59	87	2	Standard
In-1	115		ug/L			5077	5876	0	KED
Cd	111	0.006	ug/L	0.007	115	4	6	24	KED
Cd	114	0.005	ug/L	0.006	106	3	7	43	KED
In	115		ug/L			376191	415814	0	Standard
Ag	107	0.013	ug/L	0.001	11	41	272	9	Standard
Tb	159		ug/L			601972	697803	2	Standard
Pb	208	0.378	ug/L	0.008	2	147	21342	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0035-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 09:23:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31024	41296	2	Standard
Cl	37		ug/L			2930075	3561901	3	Standard
Sc	45		ug/L			376772	670869	2	Standard
Cr	52	17.779	ug/L	0.100	0	15933	504563	2	Standard
Cr	53	19.052	ug/L	0.422	2	78	59055	4	Standard
Ge	72		ug/L			15857	18053	3	KED
Ni	60	11.001	ug/L	0.075	0	6	9319	3	KED
Ni	62	11.500	ug/L	0.656	5	3	1595	3	KED
Cu	63	1.379	ug/L	0.036	2	29	3570	5	KED
Cu	65	1.441	ug/L	0.042	2	19	1826	4	KED
Zn	66	2.251	ug/L	0.141	6	21	731	3	KED
Zn	67	4.998	ug/L	0.414	8	5	271	5	KED
As	75	0.930	ug/L	0.044	4	6	160	7	KED
Se	78	0.239	ug/L	0.177	73	11	17	16	KED
Y	89		ug/L			221443	261521	2	Standard
Kr	83		ug/L			59	68	15	Standard
In-1	115		ug/L			5077	5843	0	KED
Cd	111	0.008	ug/L	0.014	183	4	6	45	KED
Cd	114	0.011	ug/L	0.002	13	3	10	8	KED
In	115		ug/L			376191	424178	0	Standard
Ag	107	0.014	ug/L	0.002	10	41	308	8	Standard
Tb	159		ug/L			601972	705933	1	Standard
Pb	208	0.347	ug/L	0.009	2	147	19820	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0035-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 09:29:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31024	41302	0	Standard
	Cl	37		ug/L			2930075	3607710	5	Standard
>	Sc	45		ug/L			376772	676527	3	Standard
	Cr	52	35.690	ug/L	1.385	3	15933	991794	1	Standard
	Cr	53	36.951	ug/L	0.741	2	78	115281	1	Standard
>	Ge	72		ug/L			15857	18509	1	KED
	Ni	60	33.929	ug/L	0.542	1	6	29448	1	KED
	Ni	62	33.891	ug/L	0.748	2	3	4816	1	KED
	Cu	63	23.876	ug/L	0.295	1	29	62817	2	KED
	Cu	65	24.359	ug/L	0.503	2	19	31299	1	KED
	Zn	66	58.407	ug/L	1.141	1	21	18844	0	KED
	Zn	67	59.752	ug/L	2.149	3	5	3254	4	KED
	As	75	21.977	ug/L	0.350	1	6	3720	0	KED
	Se	78	58.162	ug/L	2.700	4	11	1021	3	KED
	Y	89		ug/L			221443	269355	2	Standard
	Kr	83		ug/L			59	94	13	Standard
>	In-1	115		ug/L			5077	5969	4	KED
	Cd	111	20.928	ug/L	0.677	3	4	4394	1	KED
	Cd	114	20.897	ug/L	1.061	5	3	11134	1	KED
>	In	115		ug/L			376191	436303	2	Standard
	Ag	107	18.907	ug/L	0.229	1	41	358362	1	Standard
>	Tb	159		ug/L			601972	710538	0	Standard
	Pb	208	21.621	ug/L	0.578	2	147	1233022	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLK
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 09:33:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31024	30150	2	Standard
	Cl	**37**		ug/L			2930075	3058623	3	Standard
⌈>	**Sc**	**45**		ug/L			376772	384358	0	Standard
|	**Cr**	**52**	**0.082**	ug/L	0.015	17	15933	17518	1	Standard
⌊	**Cr**	**53**	**0.062**	ug/L	0.000	0	78	189	0	Standard
⌈>	**Ge**	**72**		ug/L			15857	17362	2	KED
|	**Ni**	**60**	**-0.002**	ug/L	0.004	184	6	5	66	KED
|	**Ni**	**62**	**-0.007**	ug/L	0.021	287	3	2	114	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.004	447	29	29	32	KED
|	**Cu**	**65**	**0.001**	ug/L	0.006	1001	19	22	30	KED
|	**Zn**	**66**	**-0.009**	ug/L	0.024	277	21	20	32	KED
|	**Zn**	**67**	**-0.024**	ug/L	0.055	231	5	5	57	KED
|	**As**	**75**	**-0.011**	ug/L	0.007	63	6	4	24	KED
⌊	**Se**	**78**	**0.100**	ug/L	0.188	187	11	14	19	KED
	Y	**89**		ug/L			221443	222292	2	Standard
	Kr	**83**		ug/L			59	69	23	Standard
⌈>	**In-1**	**115**		ug/L			5077	5640	3	KED
|	**Cd**	**111**	**-0.015**	ug/L	0.007	47	4	1	91	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.008	429	3	4	79	KED
⌈>	**In**	**115**		ug/L			376191	403142	0	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	118	41	55	24	Standard
⌈>	**Tb**	**159**		ug/L			601972	638798	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	79	147	184	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVM
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 09:38:21
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31024	29438	2	Standard
	Cl	**37**		ug/L			2930075	3324009	2	Standard
>	**Sc**	**45**		ug/L			376772	399547	2	Standard
	Cr	**52**	**52.812**	ug/L	1.321	2	15933	859264	3	Standard
	Cr	**53**	**52.406**	ug/L	1.550	2	78	96532	1	Standard
>	**Ge**	**72**		ug/L			15857	17399	0	KED
	Ni	**60**	**47.821**	ug/L	1.997	4	6	39007	3	KED
	Ni	**62**	**46.309**	ug/L	1.067	2	3	6185	1	KED
	Cu	**63**	**46.335**	ug/L	0.687	1	29	114543	1	KED
	Cu	**65**	**47.802**	ug/L	0.883	1	19	57714	1	KED
	Zn	**66**	**48.022**	ug/L	0.761	1	21	14569	0	KED
	Zn	**67**	**49.815**	ug/L	1.721	3	5	2551	2	KED
	As	**75**	**52.885**	ug/L	1.333	2	6	8407	1	KED
	Se	**78**	**56.313**	ug/L	2.981	5	11	930	4	KED
	Y	**89**		ug/L			221443	235316	2	Standard
	Kr	**83**		ug/L			59	78	14	Standard
>	**In-1**	**115**		ug/L			5077	5421	2	KED
	Cd	**111**	**50.846**	ug/L	0.547	1	4	9698	2	KED
	Cd	**114**	**51.403**	ug/L	0.967	1	3	24898	1	KED
>	**In**	**115**		ug/L			376191	407287	1	Standard
	Ag	**107**	**41.311**	ug/L	0.769	1	41	730913	1	Standard
>	**Tb**	**159**		ug/L			601972	656385	0	Standard
	Pb	**208**	**45.908**	ug/L	0.404	0	147	2418499	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBM
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 09:45:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31024	28717	3	Standard
	Cl	**37**		ug/L			2930075	2927963	3	Standard
⌈>	**Sc**	**45**		ug/L			376772	397718	1	Standard
|	**Cr**	**52**	**0.018**	ug/L	0.043	242	15933	17092	2	Standard
⌊	**Cr**	**53**	**0.039**	ug/L	0.004	9	78	155	3	Standard
⌈>	**Ge**	**72**		ug/L			15857	17532	3	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.005	81	6	3	124	KED
|	**Ni**	**62**	**0.002**	ug/L	0.024	1166	3	3	86	KED
|	**Cu**	**63**	**-0.003**	ug/L	0.004	114	29	24	38	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.002	76	19	18	15	KED
|	**Zn**	**66**	**-0.022**	ug/L	0.014	63	21	17	22	KED
|	**Zn**	**67**	**-0.087**	ug/L	0.061	70	5	1	173	KED
|	**As**	**75**	**-0.009**	ug/L	0.002	20	6	5	9	KED
⌊	**Se**	**78**	**0.307**	ug/L	0.166	54	11	17	12	KED
	Y	**89**		ug/L			221443	227540	1	Standard
	Kr	**83**		ug/L			59	59	27	Standard
⌈>	**In-1**	**115**		ug/L			5077	5533	2	KED
|	**Cd**	**111**	**-0.012**	ug/L	0.007	63	4	2	65	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.007	1882	3	3	99	KED
⌈>	**In**	**115**		ug/L			376191	410466	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	55	41	59	13	Standard
⌈>	**Tb**	**159**		ug/L			601972	654270	0	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.001	61	147	114	25	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0444-14
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 09:50:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31024	46250	0	Standard
	Cl	**37**		ug/L			2930075	3533316	1	Standard
⌈>	**Sc**	**45**		ug/L			376772	433848	2	Standard
|	**Cr**	**52**	**0.214**	ug/L	0.023	10	15933	22050	1	Standard
⌊	**Cr**	**53**	**0.813**	ug/L	0.029	3	78	1714	2	Standard
⌈>	**Ge**	**72**		ug/L			15857	17719	1	KED
|	**Ni**	**60**	**0.570**	ug/L	0.038	6	6	481	5	KED
|	**Ni**	**62**	**0.614**	ug/L	0.005	0	3	86	2	KED
|	**Cu**	**63**	**1.932**	ug/L	0.030	1	29	4897	3	KED
|	**Cu**	**65**	**1.973**	ug/L	0.016	0	19	2447	1	KED
|	**Zn**	**66**	**6.323**	ug/L	0.214	3	21	1974	2	KED
|	**Zn**	**67**	**7.085**	ug/L	0.261	3	5	375	5	KED
|	**As**	**75**	**0.343**	ug/L	0.019	5	6	62	4	KED
⌊	**Se**	**78**	**0.231**	ug/L	0.087	37	11	16	9	KED
	Y	**89**		ug/L			221443	237822	1	Standard
	Kr	**83**		ug/L			59	61	9	Standard
⌈>	**In-1**	**115**		ug/L			5077	5613	0	KED
|	**Cd**	**111**	**0.004**	ug/L	0.011	263	4	5	40	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.008	120	3	7	53	KED
⌈>	**In**	**115**		ug/L			376191	411078	2	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	58	41	74	24	Standard
⌈>	**Tb**	**159**		ug/L			601972	673854	1	Standard
⌊	**Pb**	**208**	**0.052**	ug/L	0.000	0	147	2993	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0444-16
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 09:55:00
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31024	42630	1	Standard
	Cl	**37**		ug/L			2930075	3243309	2	Standard
⌈>	**Sc**	**45**		ug/L			376772	451790	1	Standard
|	**Cr**	**52**	**0.272**	ug/L	0.022	8	15933	24005	0	Standard
⌊	**Cr**	**53**	**0.828**	ug/L	0.010	1	78	1818	1	Standard
⌈>	**Ge**	**72**		ug/L			15857	17669	2	KED
|	**Ni**	**60**	**0.309**	ug/L	0.005	1	6	263	4	KED
|	**Ni**	**62**	**0.265**	ug/L	0.070	26	3	39	22	KED
|	**Cu**	**63**	**0.520**	ug/L	0.021	4	29	1339	6	KED
|	**Cu**	**65**	**0.511**	ug/L	0.049	9	19	648	10	KED
|	**Zn**	**66**	**0.992**	ug/L	0.040	4	21	329	6	KED
|	**Zn**	**67**	**1.714**	ug/L	0.158	9	5	95	8	KED
|	**As**	**75**	**0.704**	ug/L	0.026	3	6	120	0	KED
⌊	**Se**	**78**	**0.080**	ug/L	0.049	61	11	14	6	KED
	Y	**89**		ug/L			221443	236157	2	Standard
	Kr	**83**		ug/L			59	60	15	Standard
⌈>	**In-1**	**115**		ug/L			5077	5649	3	KED
|	**Cd**	**111**	**-0.015**	ug/L	0.003	16	4	1	34	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.010	362	3	5	92	KED
⌈>	**In**	**115**		ug/L			376191	409520	0	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	50	41	64	15	Standard
⌈>	**Tb**	**159**		ug/L			601972	677948	1	Standard
⌊	**Pb**	**208**	**0.026**	ug/L	0.001	5	147	1580	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0402-13
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 10:01:03
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31024	48883	2	Standard
	Cl	37		ug/L			2930075	3572488	6	Standard
>	Sc	45		ug/L			376772	736604	1	Standard
	Cr	52	0.485	ug/L	0.032	6	15933	45397	1	Standard
	Cr	53	1.178	ug/L	0.036	3	78	4150	2	Standard
>	Ge	72		ug/L			15857	17821	1	KED
	Ni	60	9.714	ug/L	0.251	2	6	8122	1	KED
	Ni	62	9.820	ug/L	0.237	2	3	1346	3	KED
	Cu	63	0.662	ug/L	0.017	2	29	1709	2	KED
	Cu	65	0.694	ug/L	0.040	5	19	880	5	KED
	Zn	66	3.227	ug/L	0.176	5	21	1026	6	KED
	Zn	67	4.018	ug/L	0.519	12	5	216	11	KED
	As	75	6.485	ug/L	0.085	1	6	1062	2	KED
	Se	78	0.084	ug/L	0.206	244	11	14	25	KED
	Y	89		ug/L			221443	251882	0	Standard
	Kr	83		ug/L			59	74	10	Standard
>	In-1	115		ug/L			5077	5906	1	KED
	Cd	111	0.006	ug/L	0.010	162	4	6	32	KED
	Cd	114	-0.000	ug/L	0.023	12550	3	4	296	KED
>	In	115		ug/L			376191	416973	0	Standard
	Ag	107	0.002	ug/L	0.000	15	41	84	6	Standard
>	Tb	159		ug/L			601972	706005	1	Standard
	Pb	208	0.055	ug/L	0.001	1	147	3306	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0402-14
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 10:05:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31024	42843	0	Standard
Cl	37		ug/L			2930075	3405859	4	Standard
> Sc	45		ug/L			376772	646527	0	Standard
Cr	52	12.617	ug/L	0.034	0	15933	353021	1	Standard
Cr	53	13.395	ug/L	0.061	0	78	40041	0	Standard
> Ge	72		ug/L			15857	18762	1	KED
Ni	60	5.091	ug/L	0.128	2	6	4485	1	KED
Ni	62	4.984	ug/L	0.092	1	3	721	2	KED
Cu	63	0.639	ug/L	0.023	3	29	1736	4	KED
Cu	65	0.621	ug/L	0.068	11	19	831	9	KED
Zn	66	1.861	ug/L	0.093	4	21	633	6	KED
Zn	67	3.518	ug/L	0.179	5	5	200	5	KED
As	75	2.381	ug/L	0.071	3	6	415	3	KED
Se	78	0.151	ug/L	0.154	102	11	16	14	KED
Y	89		ug/L			221443	265236	3	Standard
Kr	83		ug/L			59	74	32	Standard
> In-1	115		ug/L			5077	6006	0	KED
Cd	111	0.001	ug/L	0.009	1011	4	5	39	KED
Cd	114	0.003	ug/L	0.026	772	3	6	231	KED
> In	115		ug/L			376191	440029	1	Standard
Ag	107	0.006	ug/L	0.000	4	41	161	1	Standard
> Tb	159		ug/L			601972	715615	0	Standard
Pb	208	0.144	ug/L	0.002	1	147	8433	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLL
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 10:10:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31024	30411	4	Standard
	Cl	**37**		ug/L			2930075	2915064	3	Standard
⌈>	**Sc**	**45**		ug/L			376772	388674	1	Standard
|	**Cr**	**52**	**0.021**	ug/L	0.025	119	15933	16751	1	Standard
⌊	**Cr**	**53**	**0.040**	ug/L	0.002	4	78	152	3	Standard
⌈>	**Ge**	**72**		ug/L			15857	18029	1	KED
|	**Ni**	**60**	**-0.005**	ug/L	0.004	91	6	3	100	KED
|	**Ni**	**62**	**-0.012**	ug/L	0.014	109	3	1	100	KED
|	**Cu**	**63**	**-0.003**	ug/L	0.001	23	29	24	7	KED
|	**Cu**	**65**	**-0.007**	ug/L	0.005	62	19	13	42	KED
|	**Zn**	**66**	**-0.004**	ug/L	0.020	582	21	23	28	KED
|	**Zn**	**67**	**-0.051**	ug/L	0.094	183	5	3	132	KED
|	**As**	**75**	**0.001**	ug/L	0.007	939	6	6	17	KED
⌊	**Se**	**78**	**0.021**	ug/L	0.117	565	11	13	14	KED
	Y	**89**		ug/L			221443	224941	3	Standard
	Kr	**83**		ug/L			59	73	15	Standard
⌈>	**In-1**	**115**		ug/L			5077	5681	2	KED
|	**Cd**	**111**	**-0.009**	ug/L	0.008	87	4	2	57	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.003	112	3	5	32	KED
⌈>	**In**	**115**		ug/L			376191	400651	3	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	19	41	24	13	Standard
⌈>	**Tb**	**159**		ug/L			601972	644900	1	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	11	147	121	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVN
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 10:15:23
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31024	30158	1	Standard
	Cl	**37**		ug/L			2930075	3314500	3	Standard
⌈>	**Sc**	**45**		ug/L			376772	395648	2	Standard
|	**Cr**	**52**	**52.920**	ug/L	1.077	2	15933	852381	1	Standard
⌊	**Cr**	**53**	**54.214**	ug/L	1.376	2	78	98916	3	Standard
⌈>	**Ge**	**72**		ug/L			15857	17700	1	KED
|	**Ni**	**60**	**46.585**	ug/L	0.949	2	6	38657	0	KED
|	**Ni**	**62**	**44.888**	ug/L	1.772	3	3	6097	2	KED
|	**Cu**	**63**	**45.967**	ug/L	0.447	0	29	115594	0	KED
|	**Cu**	**65**	**46.030**	ug/L	1.491	3	19	56530	2	KED
|	**Zn**	**66**	**48.320**	ug/L	0.470	0	21	14913	0	KED
|	**Zn**	**67**	**51.007**	ug/L	0.838	1	5	2658	2	KED
|	**As**	**75**	**51.949**	ug/L	0.682	1	6	8402	1	KED
⌊	**Se**	**78**	**55.480**	ug/L	0.785	1	11	932	0	KED
	Y	**89**		ug/L			221443	233763	2	Standard
	Kr	**83**		ug/L			59	70	19	Standard
⌈>	**In-1**	**115**		ug/L			5077	5799	1	KED
|	**Cd**	**111**	**49.772**	ug/L	1.306	2	4	10153	1	KED
⌊	**Cd**	**114**	**48.911**	ug/L	0.968	1	3	25344	0	KED
⌈>	**In**	**115**		ug/L			376191	405261	1	Standard
⌊	**Ag**	**107**	**40.490**	ug/L	1.294	3	41	712798	2	Standard
⌈>	**Tb**	**159**		ug/L			601972	662781	0	Standard
⌊	**Pb**	**208**	**45.225**	ug/L	0.855	1	147	2405550	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBN
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 10:22:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31024	29043	2	Standard
	Cl	**37**		ug/L			2930075	3008649	2	Standard
⎡>	**Sc**	**45**		ug/L			376772	388528	1	Standard
⎢	**Cr**	**52**	**-0.011**	ug/L	0.041	361	15933	16248	2	Standard
⎣	**Cr**	**53**	**0.028**	ug/L	0.007	24	78	130	8	Standard
⎡>	**Ge**	**72**		ug/L			15857	17110	0	KED
⎢	**Ni**	**60**	**-0.002**	ug/L	0.004	184	6	5	57	KED
⎢	**Ni**	**62**	**0.003**	ug/L	0.014	497	3	3	50	KED
⎢	**Cu**	**63**	**-0.003**	ug/L	0.004	132	29	23	44	KED
⎢	**Cu**	**65**	**-0.007**	ug/L	0.002	23	19	13	14	KED
⎢	**Zn**	**66**	**-0.029**	ug/L	0.015	49	21	14	30	KED
⎢	**Zn**	**67**	**-0.085**	ug/L	0.038	44	5	1	100	KED
⎢	**As**	**75**	**0.000**	ug/L	0.012	62184	6	6	29	KED
⎣	**Se**	**78**	**0.072**	ug/L	0.169	235	11	13	19	KED
	Y	**89**		ug/L			221443	224333	2	Standard
	Kr	**83**		ug/L			59	60	8	Standard
⎡>	**In-1**	**115**		ug/L			5077	5511	1	KED
⎢	**Cd**	**111**	**0.010**	ug/L	0.007	77	4	6	22	KED
⎣	**Cd**	**114**	**0.001**	ug/L	0.004	491	3	4	48	KED
⎡>	**In**	**115**		ug/L			376191	406554	1	Standard
⎣	**Ag**	**107**	**0.001**	ug/L	0.001	114	41	55	22	Standard
⎡>	**Tb**	**159**		ug/L			601972	643607	1	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.000	21	147	119	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 10:27:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31024	38976	2	Standard
	Cl	**37**		ug/L			2930075	3222207	0	Standard
⌈>	**Sc**	**45**		ug/L			376772	487031	1	Standard
|	**Cr**	**52**	**0.013**	ug/L	0.014	112	15933	20842	1	Standard
⌊	**Cr**	**53**	**0.021**	ug/L	0.005	24	78	149	9	Standard
⌈>	**Ge**	**72**		ug/L			15857	19202	2	KED
|	**Ni**	**60**	**0.002**	ug/L	0.003	174	6	10	28	KED
|	**Ni**	**62**	**0.004**	ug/L	0.027	610	3	4	89	KED
|	**Cu**	**63**	**0.001**	ug/L	0.000	28	29	36	2	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.001	36	19	19	5	KED
|	**Zn**	**66**	**-0.021**	ug/L	0.006	30	21	19	10	KED
|	**Zn**	**67**	**-0.033**	ug/L	0.018	54	5	5	21	KED
|	**As**	**75**	**-0.005**	ug/L	0.011	209	6	6	28	KED
⌊	**Se**	**78**	**0.020**	ug/L	0.080	405	11	14	8	KED
	Y	**89**		ug/L			221443	267652	0	Standard
	Kr	**83**		ug/L			59	64	11	Standard
⌈>	**In-1**	**115**		ug/L			5077	6499	1	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.005	129	4	4	24	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.003	68	3	1	104	KED
⌈>	**In**	**115**		ug/L			376191	457253	1	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	202	41	56	21	Standard
⌈>	**Tb**	**159**		ug/L			601972	740623	1	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	37	147	156	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 10:32:03
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31024	38599	1	Standard
	Cl	**37**		ug/L			2930075	3217280	2	Standard
⌈>	**Sc**	**45**		ug/L			376772	481022	2	Standard
|	**Cr**	**52**	**0.034**	ug/L	0.015	43	15933	20999	4	Standard
⌊	**Cr**	**53**	**0.019**	ug/L	0.003	16	78	142	7	Standard
⌈>	**Ge**	**72**		ug/L			15857	19403	1	KED
|	**Ni**	**60**	**-0.001**	ug/L	0.002	191	6	7	25	KED
|	**Ni**	**62**	**-0.013**	ug/L	0.022	163	3	1	173	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.003	75	29	25	31	KED
|	**Cu**	**65**	**-0.007**	ug/L	0.005	81	19	15	45	KED
|	**Zn**	**66**	**-0.022**	ug/L	0.015	70	21	19	26	KED
|	**Zn**	**67**	**-0.067**	ug/L	0.020	29	5	3	34	KED
|	**As**	**75**	**-0.012**	ug/L	0.009	74	6	5	31	KED
⌊	**Se**	**78**	**0.104**	ug/L	0.062	59	11	16	5	KED
	Y	**89**		ug/L			221443	271102	1	Standard
	Kr	**83**		ug/L			59	76	6	Standard
⌈>	**In-1**	**115**		ug/L			5077	6428	1	KED
|	**Cd**	**111**	**-0.012**	ug/L	0.002	19	4	2	21	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.002	346	3	4	25	KED
⌈>	**In**	**115**		ug/L			376191	455482	2	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.000	102	41	41	16	Standard
⌈>	**Tb**	**159**		ug/L			601972	727267	1	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	5	147	132	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 10:36:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31024	38289	1	Standard
	Cl	**37**		ug/L			2930075	3200531	2	Standard
⌈>	**Sc**	**45**		ug/L			376772	485508	0	Standard
|	**Cr**	**52**	**0.002**	ug/L	0.019	1016	15933	20564	0	Standard
⌊	**Cr**	**53**	**0.016**	ug/L	0.007	44	78	137	11	Standard
⌈>	**Ge**	**72**		ug/L			15857	19605	0	KED
|	**Ni**	**60**	**-0.002**	ug/L	0.004	243	6	6	56	KED
|	**Ni**	**62**	**-0.005**	ug/L	0.007	150	3	3	34	KED
|	**Cu**	**63**	**-0.007**	ug/L	0.002	29	29	15	36	KED
|	**Cu**	**65**	**-0.010**	ug/L	0.001	7	19	10	10	KED
|	**Zn**	**66**	**-0.022**	ug/L	0.020	91	21	19	36	KED
|	**Zn**	**67**	**-0.024**	ug/L	0.056	236	5	5	57	KED
|	**As**	**75**	**-0.012**	ug/L	0.009	75	6	5	32	KED
⌊	**Se**	**78**	**0.084**	ug/L	0.052	62	11	15	5	KED
	Y	**89**		ug/L			221443	266224	2	Standard
	Kr	**83**		ug/L			59	66	8	Standard
⌈>	**In-1**	**115**		ug/L			5077	6498	3	KED
|	**Cd**	**111**	**-0.013**	ug/L	0.003	21	4	2	24	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.007	424	3	3	102	KED
⌈>	**In**	**115**		ug/L			376191	456736	0	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	8	41	35	3	Standard
⌈>	**Tb**	**159**		ug/L			601972	731336	1	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	22	147	133	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 10:41:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31024	28878	1	Standard
	Cl	**37**		ug/L			2930075	2788368	3	Standard
⌈>	**Sc**	**45**		ug/L			376772	369544	3	Standard
|	**Cr**	**52**	**-0.065**	ug/L	0.033	50	15933	14655	0	Standard
⌊	**Cr**	**53**	**0.013**	ug/L	0.010	77	78	99	16	Standard
⌈>	**Ge**	**72**		ug/L			15857	16752	1	KED
|	**Ni**	**60**	**0.000**	ug/L	0.002	806	6	7	25	KED
|	**Ni**	**62**	**-0.011**	ug/L	0.015	130	3	1	100	KED
|	**Cu**	**63**	**-0.005**	ug/L	0.001	21	29	18	15	KED
|	**Cu**	**65**	**-0.005**	ug/L	0.006	119	19	15	43	KED
|	**Zn**	**66**	**-0.059**	ug/L	0.011	18	21	5	57	KED
|	**Zn**	**67**	**-0.071**	ug/L	0.045	63	5	2	86	KED
|	**As**	**75**	**0.014**	ug/L	0.013	88	6	8	22	KED
⌊	**Se**	**78**	**0.048**	ug/L	0.093	193	11	12	13	KED
	Y	**89**		ug/L			221443	218220	3	Standard
	Kr	**83**		ug/L			59	66	3	Standard
⌈>	**In-1**	**115**		ug/L			5077	5404	1	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.003	48	4	3	17	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.004	90	3	1	106	KED
⌈>	**In**	**115**		ug/L			376191	391022	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	38	41	30	16	Standard
⌈>	**Tb**	**159**		ug/L			601972	616307	1	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	11	147	61	15	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 10:45:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31024	29487	1	Standard
	Cl	**37**		ug/L			2930075	2754467	1	Standard
⌈>	**Sc**	**45**		ug/L			376772	361189	3	Standard
|	**Cr**	**52**	**-0.029**	ug/L	0.004	14	15933	14855	2	Standard
⌊	**Cr**	**53**	**0.020**	ug/L	0.001	4	78	109	3	Standard
⌈>	**Ge**	**72**		ug/L			15857	16371	2	KED
|	**Ni**	**60**	**-0.007**	ug/L	0.000	0	6	1		KED
|	**Ni**	**62**	**-0.016**	ug/L	0.017	106	3	1	173	KED
|	**Cu**	**63**	**-0.006**	ug/L	0.003	41	29	15	43	KED
|	**Cu**	**65**	**-0.009**	ug/L	0.001	9	19	10	10	KED
|	**Zn**	**66**	**-0.045**	ug/L	0.011	25	21	9	34	KED
|	**Zn**	**67**	**-0.083**	ug/L	0.068	82	5	1	173	KED
|	**As**	**75**	**-0.010**	ug/L	0.011	112	6	4	36	KED
⌊	**Se**	**78**	**-0.013**	ug/L	0.097	772	11	11	14	KED
	Y	**89**		ug/L			221443	213258	2	Standard
	Kr	**83**		ug/L			59	67	26	Standard
⌈>	**In-1**	**115**		ug/L			5077	5128	1	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.012	314	4	3	62	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.002	83	3	2	46	KED
⌈>	**In**	**115**		ug/L			376191	386974	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.001	93	41	30	38	Standard
⌈>	**Tb**	**159**		ug/L			601972	618168	2	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	6	147	56	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 05, 2023 10:50:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010423.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31024	30144	1	Standard
	Cl	**37**		ug/L			2930075	2680116	2	Standard
⌈>	**Sc**	**45**		ug/L			376772	357987	2	Standard
|	**Cr**	**52**	**-0.042**	ug/L	0.047	111	15933	14533	3	Standard
⌊	**Cr**	**53**	**0.024**	ug/L	0.004	17	78	114	6	Standard
⌈>	**Ge**	**72**		ug/L			15857	16692	1	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.003	45	6	2	86	KED
|	**Ni**	**62**	**-0.011**	ug/L	0.026	226	3	1	173	KED
|	**Cu**	**63**	**-0.005**	ug/L	0.001	14	29	19	10	KED
|	**Cu**	**65**	**-0.011**	ug/L	0.008	74	19	8	113	KED
|	**Zn**	**66**	**-0.045**	ug/L	0.000	1	21	9	0	KED
|	**Zn**	**67**	**-0.071**	ug/L	0.045	63	5	2	86	KED
|	**As**	**75**	**-0.008**	ug/L	0.005	62	6	5	14	KED
⌊	**Se**	**78**	**-0.121**	ug/L	0.122	101	11	10	17	KED
	Y	**89**		ug/L			221443	213958	1	Standard
	Kr	**83**		ug/L			59	52	35	Standard
⌈>	**In-1**	**115**		ug/L			5077	5126	1	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.000	13	4	3	0	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.003	46	3	1	97	KED
⌈>	**In**	**115**		ug/L			376191	388511	0	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	35	41	31	12	Standard
⌈>	**Tb**	**159**		ug/L			601972	627812	1	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	5	147	61	7	Standard

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Instrument ID: ICPMS1
Calibration: FL00059
Control Limt: +/- 10.00%
Sequence: SKL0348

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SKL0348-ICV1	Lead-208	50.000	50.5	101	ug/L	EPA 6020B
SKL0348-CCV1	Lead-208	50.000	51.4	103	ug/L	EPA 6020B
SKL0348-CCV2	Lead-208	50.000	50.5	101	ug/L	EPA 6020B
SKL0348-CCV3	Lead-208	50.000	49.6	99.2	ug/L	EPA 6020B
SKL0348-CCV4	Lead-208	50.000	48.6	97.1	ug/L	EPA 6020B
SKL0348-CCV5	Lead-208	50.000	49.9	99.8	ug/L	EPA 6020B
SKL0348-CCV6	Lead-208	50.000	49.3	98.6	ug/L	EPA 6020B
SKL0348-CCV7	Lead-208	50.000	49.7	99.4	ug/L	EPA 6020B
SKL0348-CCV8	Lead-208	50.000	50.4	101	ug/L	EPA 6020B
SKL0348-CCV9	Lead-208	50.000	49.5	98.9	ug/L	EPA 6020B
SKL0348-CCVA	Lead-208	50.000	50.0	100	ug/L	EPA 6020B
SKL0348-CCVB	Lead-208	50.000	48.0	96.0	ug/L	EPA 6020B
SKL0348-CCVC	Lead-208	50.000	49.0	98.0	ug/L	EPA 6020B
SKL0348-CCVD	Lead-208	50.000	48.7	97.4	ug/L	EPA 6020B
SKL0348-CCVE	Lead-208	50.000	48.4	96.8	ug/L	EPA 6020B
SKL0348-CCVF	Lead-208	50.000	49.3	98.5	ug/L	EPA 6020B
SKL0348-CCVG	Lead-208	50.000	48.8	97.5	ug/L	EPA 6020B
SKL0348-CCVH	Lead-208	50.000	48.6	97.2	ug/L	EPA 6020B
SKL0348-CCVI	Lead-208	50.000	49.6	99.2	ug/L	EPA 6020B
SKL0348-CCVJ	Lead-208	50.000	46.5	93.0	ug/L	EPA 6020B
SKL0348-CCVK	Lead-208	50.000	46.8	93.6	ug/L	EPA 6020B

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Instrument ID: ICPMS2
Calibration: GA00017
Control Limt: +/- 10.00%
Sequence: SLA0046

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLA0046-ICV1	Lead-208	50.000	50.9	102	ug/L	EPA 6020B
SLA0046-CCV1	Lead-208	50.000	50.7	101	ug/L	EPA 6020B
SLA0046-CCV2	Lead-208	50.000	49.4	98.9	ug/L	EPA 6020B
SLA0046-CCV3	Lead-208	50.000	49.1	98.3	ug/L	EPA 6020B
SLA0046-CCV4	Lead-208	50.000	47.8	95.6	ug/L	EPA 6020B
SLA0046-CCV5	Lead-208	50.000	48.7	97.3	ug/L	EPA 6020B
SLA0046-CCV6	Lead-208	50.000	49.3	98.5	ug/L	EPA 6020B
SLA0046-CCV7	Lead-208	50.000	48.2	96.4	ug/L	EPA 6020B
SLA0046-CCV8	Lead-208	50.000	47.0	94.0	ug/L	EPA 6020B
SLA0046-CCV9	Lead-208	50.000	46.2	92.3	ug/L	EPA 6020B
SLA0046-CCVA	Lead-208	50.000	45.9	91.8	ug/L	EPA 6020B
SLA0046-CCVB	Lead-208	50.000	46.8	93.6	ug/L	EPA 6020B
SLA0046-CCVC	Lead-208	50.000	45.3	90.7	ug/L	EPA 6020B
SLA0046-CCVD	Lead-208	50.000	45.5	91.0	ug/L	EPA 6020B
SLA0046-CCVE	Lead-208	50.000	44.6	89.1	ug/L	EPA 6020B
SLA0046-CCVF	Lead-208	50.000	45.8	91.6	ug/L	EPA 6020B
SLA0046-CCVG	Lead-208	50.000	45.4	90.9	ug/L	EPA 6020B
SLA0046-CCVH	Lead-208	50.000	45.8	91.7	ug/L	EPA 6020B
SLA0046-CCVI	Lead-208	50.000	46.7	93.4	ug/L	EPA 6020B
SLA0046-CCVJ	Lead-208	50.000	46.5	93.1	ug/L	EPA 6020B
SLA0046-CCVK	Lead-208	50.000	48.0	96.0	ug/L	EPA 6020B
SLA0046-CCVL	Lead-208	50.000	47.5	95.0	ug/L	EPA 6020B
SLA0046-CCVM	Lead-208	50.000	45.9	91.8	ug/L	EPA 6020B
SLA0046-CCVN	Lead-208	50.000	45.2	90.5	ug/L	EPA 6020B

* Values outside of QC limits

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SKL0348

SDG: 22L0136
Project: AOC4 UR Phase 3
Calibration: FL00059
Date Analyzed: 12/27/22 16:03

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKL0348-IBL1	Lead-208	0.00700	0.0513	0.100	ug/L	
SKL0348-ICB1	Lead-208	0.00100	0.0513	0.100	ug/L	
SKL0348-CCB1	Lead-208	0.00100	0.0513	0.100	ug/L	
SKL0348-IBL2	Lead-208	0.0420	0.0513	0.100	ug/L	
SKL0348-IBL3	Lead-208	0.00700	0.0513	0.100	ug/L	
SKL0348-IBL4	Lead-208	0.00300	0.0513	0.100	ug/L	
SKL0348-CCB2	Lead-208	0.00100	0.0513	0.100	ug/L	
SKL0348-CCB3	Lead-208	0.00100	0.0513	0.100	ug/L	
SKL0348-IBL5	Lead-208	0.00800	0.0513	0.100	ug/L	
SKL0348-IBL6	Lead-208	0.00200	0.0513	0.100	ug/L	
SKL0348-CCB4	Lead-208	0.00100	0.0513	0.100	ug/L	
SKL0348-IBL7	Lead-208	0.00100	0.0513	0.100	ug/L	
SKL0348-IBL8	Lead-208	0.00	0.0513	0.100	ug/L	
SKL0348-CCB5	Lead-208	0.00300	0.0513	0.100	ug/L	
SKL0348-IBL9	Lead-208	0.00	0.0513	0.100	ug/L	
SKL0348-CCB6	Lead-208	0.00400	0.0513	0.100	ug/L	
SKL0348-IBLA	Lead-208	0.00100	0.0513	0.100	ug/L	
SKL0348-CCB7	Lead-208	0.00300	0.0513	0.100	ug/L	
SKL0348-CCB8	Lead-208	0.00700	0.0513	0.100	ug/L	
SKL0348-IBLB	Lead-208	-0.00200	0.0513	0.100	ug/L	
SKL0348-CCB9	Lead-208	0.00200	0.0513	0.100	ug/L	
SKL0348-IBLC	Lead-208	0.00	0.0513	0.100	ug/L	
SKL0348-CCBA	Lead-208	0.00100	0.0513	0.100	ug/L	
SKL0348-IBLD	Lead-208	-0.00200	0.0513	0.100	ug/L	
SKL0348-CCBB	Lead-208	0.00500	0.0513	0.100	ug/L	
SKL0348-IBLE	Lead-208	-0.00300	0.0513	0.100	ug/L	
SKL0348-CCBC	Lead-208	-0.00200	0.0513	0.100	ug/L	
SKL0348-IBLF	Lead-208	-0.00200	0.0513	0.100	ug/L	
SKL0348-CCBD	Lead-208	-0.00300	0.0513	0.100	ug/L	
SKL0348-IBLG	Lead-208	-0.00200	0.0513	0.100	ug/L	
SKL0348-CCBE	Lead-208	-0.00200	0.0513	0.100	ug/L	
SKL0348-CCBF	Lead-208	-0.00200	0.0513	0.100	ug/L	
SKL0348-IBLH	Lead-208	-0.00200	0.0513	0.100	ug/L	
SKL0348-CCBG	Lead-208	0.00100	0.0513	0.100	ug/L	
SKL0348-IBLI	Lead-208	-0.00200	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SKL0348

SDG: 22L0136
Project: AOC4 UR Phase 3
Calibration: FL00059
Date Analyzed: 12/28/22 07:12

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKL0348-CCBH	Lead-208	-0.00200	0.0513	0.100	ug/L	
SKL0348-IBLJ	Lead-208	-0.00200	0.0513	0.100	ug/L	
SKL0348-CCBI	Lead-208	-0.00200	0.0513	0.100	ug/L	
SKL0348-IBLK	Lead-208	0.00700	0.0513	0.100	ug/L	
SKL0348-CCBJ	Lead-208	0.00200	0.0513	0.100	ug/L	
SKL0348-IBLL	Lead-208	0.00	0.0513	0.100	ug/L	
SKL0348-CCBK	Lead-208	-0.00100	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS2
Sequence: SLA0046

SDG: 22L0136
Project: AOC4 UR Phase 3
Calibration: GA00017
Date Analyzed: 01/04/23 14:50

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLA0046-IBL1	Lead-208	0.00200	0.0513	0.100	ug/L	
SLA0046-ICB1	Lead-208	0.00400	0.0513	0.100	ug/L	
SLA0046-CCB1	Lead-208	0.00200	0.0513	0.100	ug/L	
SLA0046-IBL2	Lead-208	0.00700	0.0513	0.100	ug/L	
SLA0046-IBL3	Lead-208	0.00400	0.0513	0.100	ug/L	
SLA0046-CCB2	Lead-208	0.00300	0.0513	0.100	ug/L	
SLA0046-CCB3	Lead-208	0.00100	0.0513	0.100	ug/L	
SLA0046-IBL4	Lead-208	0.00	0.0513	0.100	ug/L	
SLA0046-CCB4	Lead-208	0.00100	0.0513	0.100	ug/L	
SLA0046-IBL5	Lead-208	0.00100	0.0513	0.100	ug/L	
SLA0046-CCB5	Lead-208	0.00100	0.0513	0.100	ug/L	
SLA0046-IBL6	Lead-208	0.00	0.0513	0.100	ug/L	
SLA0046-CCB6	Lead-208	0.00	0.0513	0.100	ug/L	
SLA0046-CCB7	Lead-208	0.00	0.0513	0.100	ug/L	
SLA0046-CCB8	Lead-208	0.00	0.0513	0.100	ug/L	
SLA0046-IBL7	Lead-208	0.00400	0.0513	0.100	ug/L	
SLA0046-CCB9	Lead-208	0.00100	0.0513	0.100	ug/L	
SLA0046-IBL8	Lead-208	0.00800	0.0513	0.100	ug/L	
SLA0046-CCBA	Lead-208	0.00100	0.0513	0.100	ug/L	
SLA0046-IBL9	Lead-208	0.00400	0.0513	0.100	ug/L	
SLA0046-CCBB	Lead-208	0.00100	0.0513	0.100	ug/L	
SLA0046-IBLA	Lead-208	0.00400	0.0513	0.100	ug/L	
SLA0046-CCBC	Lead-208	0.00100	0.0513	0.100	ug/L	
SLA0046-IBLB	Lead-208	0.00400	0.0513	0.100	ug/L	
SLA0046-CCBD	Lead-208	0.00200	0.0513	0.100	ug/L	
SLA0046-CCBE	Lead-208	0.00	0.0513	0.100	ug/L	
SLA0046-IBLC	Lead-208	0.00400	0.0513	0.100	ug/L	
SLA0046-CCBF	Lead-208	0.00	0.0513	0.100	ug/L	
SLA0046-IBLD	Lead-208	0.00400	0.0513	0.100	ug/L	
SLA0046-CCBG	Lead-208	0.00	0.0513	0.100	ug/L	
SLA0046-IBLE	Lead-208	0.0120	0.0513	0.100	ug/L	
SLA0046-CCBH	Lead-208	0.00100	0.0513	0.100	ug/L	
SLA0046-IBLF	Lead-208	0.00	0.0513	0.100	ug/L	
SLA0046-CCBI	Lead-208	0.00100	0.0513	0.100	ug/L	
SLA0046-IBLG	Lead-208	0.00	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS2
Sequence: SLA0046

SDG: 22L0136
Project: AOC4 UR Phase 3
Calibration: GA00017
Date Analyzed: 01/05/23 07:25

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLA0046-CCBJ	Lead-208	0.00	0.0513	0.100	ug/L	
SLA0046-CCBK	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLA0046-IBLH	Lead-208	0.00	0.0513	0.100	ug/L	
SLA0046-IBLI	Lead-208	0.00100	0.0513	0.100	ug/L	
SLA0046-CCBL	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLA0046-IBLJ	Lead-208	0.00100	0.0513	0.100	ug/L	
SLA0046-IBLK	Lead-208	0.00100	0.0513	0.100	ug/L	
SLA0046-CCBM	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLA0046-IBLL	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLA0046-CCBN	Lead-208	-0.00100	0.0513	0.100	ug/L	

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0348	Instrument:	ICPMS1
		Calibration:	FL00059

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SKL0348-CAL1	XDT_m1221227-007	NA	12/27/22 15:29
CAL 1 - LOW CHECK	SKL0348-CAL2	XDT_m1221227-008	NA	12/27/22 15:34
CAL 2	SKL0348-CAL3	XDT_m1221227-009	NA	12/27/22 15:38
CAL 3	SKL0348-CAL4	XDT_m1221227-010	NA	12/27/22 15:43
CAL 4	SKL0348-CAL5	XDT_m1221227-011	NA	12/27/22 15:49
CAL 5	SKL0348-CAL6	XDT_m1221227-012	NA	12/27/22 15:55
RINSE	SKL0348-IBL1	XDT_m1221227-013	NA	12/27/22 16:03
Initial Cal Check	SKL0348-ICV1	XDT_m1221227-015	NA	12/27/22 16:10
Initial Cal Blank	SKL0348-ICB1	XDT_m1221227-016	NA	12/27/22 16:17
Calibration Check	SKL0348-CCV1	XDT_m1221227-017	NA	12/27/22 16:22
Calibration Blank	SKL0348-CCB1	XDT_m1221227-018	NA	12/27/22 16:30
Instrument RL Check	SKL0348-CRL1	XDT_m1221227-019	NA	12/27/22 16:35
Interference Check B	SKL0348-IFB1	XDT_m1221227-021	NA	12/27/22 16:45
LR200	SKL0348-HCV1	XDT_m1221227-022	NA	12/27/22 16:49
LR300	SKL0348-HCV2	XDT_m1221227-023	NA	12/27/22 16:54
Instrument Blank	SKL0348-IBL2	XDT_m1221227-024	NA	12/27/22 17:02
Interference Check A	SKL0348-IFA1	XDT_m1221227-025	NA	12/27/22 17:08
Instrument Blank	SKL0348-IBL3	XDT_m1221227-026	NA	12/27/22 17:13
Instrument Blank	SKL0348-IBL4	XDT_m1221227-027	NA	12/27/22 17:19
Calibration Check	SKL0348-CCV2	XDT_m1221227-029	NA	12/27/22 17:31
Calibration Blank	SKL0348-CCB2	XDT_m1221227-030	NA	12/27/22 17:39
Calibration Check	SKL0348-CCV3	XDT_m1221227-032	NA	12/27/22 17:50
Calibration Blank	SKL0348-CCB3	XDT_m1221227-033	NA	12/27/22 17:58
Instrument Blank	SKL0348-IBL5	XDT_m1221227-040	NA	12/27/22 18:41
Instrument Blank	SKL0348-IBL6	XDT_m1221227-043	NA	12/27/22 19:03
Calibration Check	SKL0348-CCV4	XDT_m1221227-044	NA	12/27/22 19:08
Calibration Blank	SKL0348-CCB4	XDT_m1221227-045	NA	12/27/22 19:15
Instrument Blank	SKL0348-IBL7	XDT_m1221227-054	NA	12/27/22 20:05
Instrument Blank	SKL0348-IBL8	XDT_m1221227-055	NA	12/27/22 20:10

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SKL0348

SDG: 22L0136
Project: AOC4 UR Phase 3
Instrument: ICPMS1
Calibration: FL00059

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Check	SKL0348-CCV5	XDT_m1221227-056	NA	12/27/22 20:15
Calibration Blank	SKL0348-CCB5	XDT_m1221227-058	NA	12/27/22 20:27
Instrument Blank	SKL0348-IBL9	XDT_m1221227-068	NA	12/27/22 21:20
Calibration Check	SKL0348-CCV6	XDT_m1221227-069	NA	12/27/22 21:25
Calibration Blank	SKL0348-CCB6	XDT_m1221227-070	NA	12/27/22 21:33
Blank	BKL0495-BLK1	XDT_m1221227-071	Solid	12/27/22 21:37
LCS	BKL0495-BS1	XDT_m1221227-072	Solid	12/27/22 21:42
ZZZZZ	22L0083-02	XDT_m1221227-073	Water	12/27/22 21:47
ZZZZZ	22L0083-02	XDT_m1221227-073	Water	12/27/22 21:47
ZZZZZ	22L0083-02	XDT_m1221227-073	Water	12/27/22 21:47
ZZZZZ	22L0083-03	XDT_m1221227-074	Water	12/27/22 21:52
ZZZZZ	22L0083-03	XDT_m1221227-074	Water	12/27/22 21:52
ZZZZZ	22L0083-03	XDT_m1221227-074	Water	12/27/22 21:52
ZZZZZ	22L0083-04	XDT_m1221227-075	Water	12/27/22 21:57
ZZZZZ	22L0083-04	XDT_m1221227-075	Water	12/27/22 21:57
ZZZZZ	22L0083-04	XDT_m1221227-075	Water	12/27/22 21:57
ZZZZZ	22L0083-01	XDT_m1221227-076	Water	12/27/22 22:01
ZZZZZ	22L0083-01	XDT_m1221227-076	Water	12/27/22 22:01
ZZZZZ	22L0083-01	XDT_m1221227-076	Water	12/27/22 22:01
Instrument Blank	SKL0348-IBLA	XDT_m1221227-080	NA	12/27/22 22:21
Calibration Check	SKL0348-CCV7	XDT_m1221227-081	NA	12/27/22 22:26
Calibration Blank	SKL0348-CCB7	XDT_m1221227-082	NA	12/27/22 22:33
Calibration Check	SKL0348-CCV8	XDT_m1221227-084	NA	12/27/22 22:43
Calibration Blank	SKL0348-CCB8	XDT_m1221227-085	NA	12/27/22 22:50
Instrument Blank	SKL0348-IBLB	XDT_m1221227-095	NA	12/27/22 23:39
Calibration Check	SKL0348-CCV9	XDT_m1221227-096	NA	12/27/22 23:43
Calibration Blank	SKL0348-CCB9	XDT_m1221227-097	NA	12/27/22 23:51
LDW22-SS819	22L0136-05	XDT_m1221227-098	Solid	12/27/22 23:56
ZZZZZ	22L0383-01	XDT_m1221227-099	Solid	12/28/22 00:00

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SKL0348

SDG: 22L0136
Project: AOC4 UR Phase 3
Instrument: ICPMS1
Calibration: FL00059

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Instrument Blank	SKL0348-IBLC	XDT_m1221227-107	NA	12/28/22 00:40
Calibration Check	SKL0348-CCVA	XDT_m1221227-108	NA	12/28/22 00:45
Calibration Blank	SKL0348-CCBA	XDT_m1221227-109	NA	12/28/22 00:53
Instrument Blank	SKL0348-IBLD	XDT_m1221227-119	NA	12/28/22 01:40
Calibration Check	SKL0348-CCVB	XDT_m1221227-120	NA	12/28/22 01:45
Calibration Blank	SKL0348-CCBB	XDT_m1221227-121	NA	12/28/22 01:53
Instrument Blank	SKL0348-IBLE	XDT_m1221227-131	NA	12/28/22 02:42
Calibration Check	SKL0348-CCVC	XDT_m1221227-132	NA	12/28/22 02:46
Calibration Blank	SKL0348-CCBC	XDT_m1221227-133	NA	12/28/22 02:54
Instrument Blank	SKL0348-IBLF	XDT_m1221227-143	NA	12/28/22 03:41
Calibration Check	SKL0348-CCVD	XDT_m1221227-144	NA	12/28/22 03:46
Calibration Blank	SKL0348-CCBD	XDT_m1221227-145	NA	12/28/22 03:54
Instrument Blank	SKL0348-IBLG	XDT_m1221227-155	NA	12/28/22 04:41
Calibration Check	SKL0348-CCVE	XDT_m1221227-156	NA	12/28/22 04:46
Calibration Blank	SKL0348-CCBE	XDT_m1221227-157	NA	12/28/22 04:53
Calibration Check	SKL0348-CCVF	XDT_m1221227-159	NA	12/28/22 05:03
Calibration Blank	SKL0348-CCBF	XDT_m1221227-160	NA	12/28/22 05:10
Instrument Blank	SKL0348-IBLH	XDT_m1221227-170	NA	12/28/22 05:58
Calibration Check	SKL0348-CCVG	XDT_m1221227-171	NA	12/28/22 06:03
Calibration Blank	SKL0348-CCBG	XDT_m1221227-172	NA	12/28/22 06:11
Instrument Blank	SKL0348-IBLI	XDT_m1221227-182	NA	12/28/22 06:59
Calibration Check	SKL0348-CCVH	XDT_m1221227-183	NA	12/28/22 07:04
Calibration Blank	SKL0348-CCBH	XDT_m1221227-184	NA	12/28/22 07:12
Instrument Blank	SKL0348-IBLJ	XDT_m1221227-194	NA	12/28/22 08:00
Calibration Check	SKL0348-CCVI	XDT_m1221227-195	NA	12/28/22 08:05
Calibration Blank	SKL0348-CCBI	XDT_m1221227-196	NA	12/28/22 08:12
ZZZZZ	22L0208-01	XDT_m1221227-202	Water	12/28/22 08:41
ZZZZZ	22L0208-01	XDT_m1221227-202	Water	12/28/22 08:41
ZZZZZ	BKL0517-DUP1	XDT_m1221227-203	Water	12/28/22 08:46

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0348	Instrument:	ICPMS1
		Calibration:	FL00059

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	BKL0517-MS1	XDT_m1221227-204	Water	12/28/22 08:51
ZZZZZ	BKL0517-MSD1	XDT_m1221227-205	Water	12/28/22 08:56
Instrument Blank	SKL0348-IBLK	XDT_m1221227-206	NA	12/28/22 09:01
Calibration Check	SKL0348-CCVJ	XDT_m1221227-207	NA	12/28/22 09:05
Calibration Blank	SKL0348-CCBJ	XDT_m1221227-208	NA	12/28/22 09:13
Instrument Blank	SKL0348-IBLL	XDT_m1221227-218	NA	12/28/22 10:02
Calibration Check	SKL0348-CCVK	XDT_m1221227-219	NA	12/28/22 10:06
Calibration Blank	SKL0348-CCBK	XDT_m1221227-220	NA	12/28/22 10:14

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0046	Instrument:	ICPMS2
		Calibration:	GA00017

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SLA0046-CAL1	XDT_m2230104-007	NA	01/04/23 14:17
CAL 1 - LOW CHECK	SLA0046-CAL2	XDT_m2230104-008	NA	01/04/23 14:22
CAL 2	SLA0046-CAL3	XDT_m2230104-009	NA	01/04/23 14:26
CAL 3	SLA0046-CAL4	XDT_m2230104-010	NA	01/04/23 14:31
CAL 4	SLA0046-CAL5	XDT_m2230104-011	NA	01/04/23 14:36
CAL 5	SLA0046-CAL6	XDT_m2230104-012	NA	01/04/23 14:43
RINSE	SLA0046-IBL1	XDT_m2230104-013	NA	01/04/23 14:50
Initial Cal Check	SLA0046-ICV1	XDT_m2230104-015	NA	01/04/23 14:58
Initial Cal Blank	SLA0046-ICB1	XDT_m2230104-016	NA	01/04/23 15:09
Calibration Check	SLA0046-CCV1	XDT_m2230104-017	NA	01/04/23 15:20
Calibration Blank	SLA0046-CCB1	XDT_m2230104-018	NA	01/04/23 15:27
Instrument RL Check	SLA0046-CRL1	XDT_m2230104-019	NA	01/04/23 15:36
Interference Check A	SLA0046-IFA1	XDT_m2230104-020	NA	01/04/23 15:40
Interference Check B	SLA0046-IFB1	XDT_m2230104-021	NA	01/04/23 15:45
LR200	SLA0046-HCV1	XDT_m2230104-022	NA	01/04/23 15:50
LR300	SLA0046-HCV2	XDT_m2230104-023	NA	01/04/23 15:54
Instrument Blank	SLA0046-IBL2	XDT_m2230104-024	NA	01/04/23 16:02
Instrument Blank	SLA0046-IBL3	XDT_m2230104-025	NA	01/04/23 16:08
Calibration Check	SLA0046-CCV2	XDT_m2230104-026	NA	01/04/23 16:15
Calibration Blank	SLA0046-CCB2	XDT_m2230104-027	NA	01/04/23 16:22
Calibration Check	SLA0046-CCV3	XDT_m2230104-029	NA	01/04/23 16:33
Calibration Blank	SLA0046-CCB3	XDT_m2230104-030	NA	01/04/23 16:42
Instrument Blank	SLA0046-IBL4	XDT_m2230104-040	NA	01/04/23 17:34
Calibration Check	SLA0046-CCV4	XDT_m2230104-041	NA	01/04/23 17:38
Calibration Blank	SLA0046-CCB4	XDT_m2230104-042	NA	01/04/23 17:46
ZZZZZ	22L0383-01	XDT_m2230104-048	Solid	01/04/23 18:18
ZZZZZ	22L0383-01	XDT_m2230104-048	Solid	01/04/23 18:18
Instrument Blank	SLA0046-IBL5	XDT_m2230104-052	NA	01/04/23 18:36
Calibration Check	SLA0046-CCV5	XDT_m2230104-053	NA	01/04/23 18:41

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0046
Instrument: ICPMS2
Calibration: GA00017

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Blank	SLA0046-CCB5	XDT_m2230104-054	NA	01/04/23 18:48
Instrument Blank	SLA0046-IBL6	XDT_m2230104-059	NA	01/04/23 19:19
Calibration Check	SLA0046-CCV6	XDT_m2230104-065	NA	01/04/23 19:58
Calibration Blank	SLA0046-CCB6	XDT_m2230104-066	NA	01/04/23 20:05
Calibration Check	SLA0046-CCV7	XDT_m2230104-077	NA	01/04/23 21:03
Calibration Blank	SLA0046-CCB7	XDT_m2230104-078	NA	01/04/23 21:10
Calibration Check	SLA0046-CCV8	XDT_m2230104-080	NA	01/04/23 21:19
Calibration Blank	SLA0046-CCB8	XDT_m2230104-081	NA	01/04/23 21:27
ZZZZZ	BKK0543-BLK1	XDT_m2230104-082	Solid	01/04/23 21:31
ZZZZZ	BKK0543-BS1	XDT_m2230104-083	Solid	01/04/23 21:36
ZZZZZ	BKK0543-SRL1	XDT_m2230104-084	Solid	01/04/23 21:41
ZZZZZ	22H0525-40	XDT_m2230104-085	Solid	01/04/23 21:45
ZZZZZ	BKK0543-DUP1	XDT_m2230104-086	Solid	01/04/23 21:50
ZZZZZ	BKK0543-MS1	XDT_m2230104-087	Solid	01/04/23 21:54
ZZZZZ	BKK0543-MSD1	XDT_m2230104-088	Solid	01/04/23 21:59
ZZZZZ	BKK0543-SRM1	XDT_m2230104-090	Solid	01/04/23 22:08
Instrument Blank	SLA0046-IBL7	XDT_m2230104-091	NA	01/04/23 22:13
Calibration Check	SLA0046-CCV9	XDT_m2230104-092	NA	01/04/23 22:17
Calibration Blank	SLA0046-CCB9	XDT_m2230104-093	NA	01/04/23 22:25
ZZZZZ	BKK0557-BLK1	XDT_m2230104-094	Solid	01/04/23 22:29
ZZZZZ	BKK0557-BS1	XDT_m2230104-095	Solid	01/04/23 22:34
ZZZZZ	BKK0557-SRL1	XDT_m2230104-096	Solid	01/04/23 22:39
ZZZZZ	22H0529-01	XDT_m2230104-097	Solid	01/04/23 22:43
ZZZZZ	BKK0557-DUP1	XDT_m2230104-098	Solid	01/04/23 22:48
ZZZZZ	BKK0557-MS1	XDT_m2230104-099	Solid	01/04/23 22:53
ZZZZZ	BKK0557-MSD1	XDT_m2230104-100	Solid	01/04/23 22:57
ZZZZZ	BKK0557-SRM1	XDT_m2230104-102	Solid	01/04/23 23:06
Instrument Blank	SLA0046-IBL8	XDT_m2230104-103	NA	01/04/23 23:11
Calibration Check	SLA0046-CCVA	XDT_m2230104-104	NA	01/04/23 23:16

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0046
Instrument: ICPMS2
Calibration: GA00017

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Blank	SLA0046-CCBA	XDT_m2230104-105	NA	01/04/23 23:23
ZZZZZ	BKK0828-BLK1	XDT_m2230104-106	Solid	01/04/23 23:28
ZZZZZ	BKK0828-BS1	XDT_m2230104-107	Solid	01/04/23 23:32
ZZZZZ	BKK0828-SRL1	XDT_m2230104-108	Solid	01/04/23 23:37
ZZZZZ	22I0052-04	XDT_m2230104-109	Solid	01/04/23 23:41
ZZZZZ	BKK0828-DUP1	XDT_m2230104-110	Solid	01/04/23 23:46
ZZZZZ	BKK0828-MS1	XDT_m2230104-111	Solid	01/04/23 23:51
ZZZZZ	BKK0828-MSD1	XDT_m2230104-112	Solid	01/04/23 23:55
ZZZZZ	BKK0828-SRM1	XDT_m2230104-114	Solid	01/05/23 00:04
Instrument Blank	SLA0046-IBL9	XDT_m2230104-115	NA	01/05/23 00:09
Calibration Check	SLA0046-CCVB	XDT_m2230104-116	NA	01/05/23 00:14
Calibration Blank	SLA0046-CCBB	XDT_m2230104-117	NA	01/05/23 00:21
ZZZZZ	BKL0006-BLK1	XDT_m2230104-118	Solid	01/05/23 00:26
ZZZZZ	BKL0006-BS1	XDT_m2230104-119	Solid	01/05/23 00:30
ZZZZZ	BKL0006-SRL1	XDT_m2230104-120	Solid	01/05/23 00:35
ZZZZZ	22I0052-25	XDT_m2230104-121	Solid	01/05/23 00:40
ZZZZZ	BKL0006-DUP1	XDT_m2230104-122	Solid	01/05/23 00:44
ZZZZZ	BKL0006-MS1	XDT_m2230104-123	Solid	01/05/23 00:49
ZZZZZ	BKL0006-MSD1	XDT_m2230104-124	Solid	01/05/23 00:54
ZZZZZ	BKL0006-SRM1	XDT_m2230104-126	Solid	01/05/23 01:03
Instrument Blank	SLA0046-IBLA	XDT_m2230104-127	NA	01/05/23 01:07
Calibration Check	SLA0046-CCVC	XDT_m2230104-128	NA	01/05/23 01:12
Calibration Blank	SLA0046-CCBC	XDT_m2230104-129	NA	01/05/23 01:19
ZZZZZ	BKL0035-BLK1	XDT_m2230104-130	Solid	01/05/23 01:24
ZZZZZ	BKL0035-BS1	XDT_m2230104-131	Solid	01/05/23 01:29
ZZZZZ	BKL0035-SRL1	XDT_m2230104-132	Solid	01/05/23 01:33
ZZZZZ	22I0188-02	XDT_m2230104-133	Solid	01/05/23 01:38
ZZZZZ	BKL0035-DUP1	XDT_m2230104-134	Solid	01/05/23 01:42
ZZZZZ	BKL0035-MS1	XDT_m2230104-135	Solid	01/05/23 01:47

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0046
Instrument: ICPMS2
Calibration: GA00017

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	BKL0035-MSD1	XDT_m2230104-136	Solid	01/05/23 01:52
ZZZZZ	BKL0035-SRM1	XDT_m2230104-138	Solid	01/05/23 02:01
Instrument Blank	SLA0046-IBLB	XDT_m2230104-139	NA	01/05/23 02:05
Calibration Check	SLA0046-CCVD	XDT_m2230104-140	NA	01/05/23 02:10
Calibration Blank	SLA0046-CCBD	XDT_m2230104-141	NA	01/05/23 02:17
Calibration Check	SLA0046-CCVE	XDT_m2230104-143	NA	01/05/23 02:27
Calibration Blank	SLA0046-CCBE	XDT_m2230104-144	NA	01/05/23 02:34
Instrument Blank	SLA0046-IBLC	XDT_m2230104-154	NA	01/05/23 03:20
Calibration Check	SLA0046-CCVF	XDT_m2230104-155	NA	01/05/23 03:25
Calibration Blank	SLA0046-CCBF	XDT_m2230104-156	NA	01/05/23 03:32
ZZZZZ	BKL0081-BLK1	XDT_m2230104-157	Solid	01/05/23 03:37
ZZZZZ	BKL0081-BS1	XDT_m2230104-158	Solid	01/05/23 03:41
ZZZZZ	BKL0081-SRL1	XDT_m2230104-159	Solid	01/05/23 03:46
ZZZZZ	22I0188-55	XDT_m2230104-160	Solid	01/05/23 03:51
ZZZZZ	BKL0081-DUP1	XDT_m2230104-161	Solid	01/05/23 03:55
ZZZZZ	BKL0081-MS1	XDT_m2230104-162	Solid	01/05/23 04:00
ZZZZZ	BKL0081-MSD1	XDT_m2230104-163	Solid	01/05/23 04:05
ZZZZZ	BKL0081-SRM1	XDT_m2230104-165	Solid	01/05/23 04:14
Instrument Blank	SLA0046-IBLD	XDT_m2230104-166	NA	01/05/23 04:18
Calibration Check	SLA0046-CCVG	XDT_m2230104-167	NA	01/05/23 04:23
Calibration Blank	SLA0046-CCBG	XDT_m2230104-168	NA	01/05/23 04:30
ZZZZZ	BKL0683-BLK1	XDT_m2230104-169	Solid	01/05/23 04:35
ZZZZZ	BKL0683-BS1	XDT_m2230104-170	Solid	01/05/23 04:40
ZZZZZ	BKL0683-SRL1	XDT_m2230104-171	Solid	01/05/23 04:44
ZZZZZ	22J0097-31	XDT_m2230104-172	Solid	01/05/23 04:49
ZZZZZ	BKL0683-DUP1	XDT_m2230104-173	Solid	01/05/23 04:54
ZZZZZ	BKL0683-MS1	XDT_m2230104-174	Solid	01/05/23 04:58
ZZZZZ	BKL0683-MSD1	XDT_m2230104-175	Solid	01/05/23 05:03
ZZZZZ	BKL0683-SRM1	XDT_m2230104-177	Solid	01/05/23 05:12

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0046	Instrument:	ICPMS2
		Calibration:	GA00017

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Instrument Blank	SLA0046-IBLE	XDT_m2230104-178	NA	01/05/23 05:17
Calibration Check	SLA0046-CCVH	XDT_m2230104-179	NA	01/05/23 05:21
Calibration Blank	SLA0046-CCBH	XDT_m2230104-180	NA	01/05/23 05:29
ZZZZZ	22L0383-02	XDT_m2230104-183	Solid	01/05/23 05:42
ZZZZZ	22L0383-03	XDT_m2230104-184	Solid	01/05/23 05:47
ZZZZZ	22L0383-04	XDT_m2230104-185	Solid	01/05/23 05:52
ZZZZZ	22L0383-05	XDT_m2230104-186	Solid	01/05/23 05:56
ZZZZZ	22L0383-06	XDT_m2230104-187	Solid	01/05/23 06:01
ZZZZZ	22L0383-07	XDT_m2230104-188	Solid	01/05/23 06:06
ZZZZZ	22L0383-08	XDT_m2230104-189	Solid	01/05/23 06:10
Instrument Blank	SLA0046-IBLF	XDT_m2230104-190	NA	01/05/23 06:15
Calibration Check	SLA0046-CCVI	XDT_m2230104-191	NA	01/05/23 06:19
Calibration Blank	SLA0046-CCBI	XDT_m2230104-192	NA	01/05/23 06:27
ZZZZZ	22L0417-01	XDT_m2230104-193	Solid	01/05/23 06:31
ZZZZZ	22L0417-02	XDT_m2230104-194	Solid	01/05/23 06:36
ZZZZZ	22L0417-03	XDT_m2230104-195	Solid	01/05/23 06:41
ZZZZZ	22L0417-04	XDT_m2230104-196	Solid	01/05/23 06:45
ZZZZZ	22L0417-05	XDT_m2230104-197	Solid	01/05/23 06:50
ZZZZZ	22L0417-06	XDT_m2230104-198	Solid	01/05/23 06:55
ZZZZZ	22L0417-07	XDT_m2230104-199	Solid	01/05/23 06:59
ZZZZZ	22L0417-08	XDT_m2230104-200	Solid	01/05/23 07:04
ZZZZZ	22L0417-09	XDT_m2230104-201	Solid	01/05/23 07:08
Instrument Blank	SLA0046-IBLG	XDT_m2230104-202	NA	01/05/23 07:13
Calibration Check	SLA0046-CCVJ	XDT_m2230104-203	NA	01/05/23 07:18
Calibration Blank	SLA0046-CCBJ	XDT_m2230104-204	NA	01/05/23 07:25
Calibration Check	SLA0046-CCVK	XDT_m2230104-206	NA	01/05/23 07:34
Calibration Blank	SLA0046-CCBK	XDT_m2230104-207	NA	01/05/23 07:42
Instrument Blank	SLA0046-IBLH	XDT_m2230104-212	NA	01/05/23 08:07
Instrument Blank	SLA0046-IBLI	XDT_m2230104-217	NA	01/05/23 08:31

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0046	Instrument:	ICPMS2
		Calibration:	GA00017

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Check	SLA0046-CCVL	XDT_m2230104-218	NA	01/05/23 08:36
Calibration Blank	SLA0046-CCBL	XDT_m2230104-219	NA	01/05/23 08:43
Instrument Blank	SLA0046-IBLJ	XDT_m2230104-224	NA	01/05/23 09:08
Instrument Blank	SLA0046-IBLK	XDT_m2230104-229	NA	01/05/23 09:33
Calibration Check	SLA0046-CCVM	XDT_m2230104-230	NA	01/05/23 09:38
Calibration Blank	SLA0046-CCBM	XDT_m2230104-231	NA	01/05/23 09:45
Instrument Blank	SLA0046-IBLL	XDT_m2230104-236	NA	01/05/23 10:10
Calibration Check	SLA0046-CCVN	XDT_m2230104-237	NA	01/05/23 10:15
Calibration Blank	SLA0046-CCBN	XDT_m2230104-238	NA	01/05/23 10:22

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Instrument ID: ICPMS1
Calibration: FL00059
Sequence: SKL0348
Standard ID: K011871

Lab Sample ID	Analyte	True	Found	%R	Units
SKL0348-IFA1	Lead-208	0	0.0370		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

Analytical Resources, LLC
Analytical Chemists and Consultants

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Instrument ID: ICPMS1
Calibration: FL00059
Sequence: SKL0348
Standard ID: K011871

Lab Sample ID	Analyte	True	Found	%R	Units
SKL0348-IFB1	Lead-208	0	0.0350		ug/L

* Indicates %R outside of QC limits
NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Instrument ID: ICPMS2
Calibration: GA00017
Sequence: SLA0046
Standard ID: K011871

Lab Sample ID	Analyte	True	Found	%R	Units
SLA0046-IFA1	Lead-208	0	0.0600		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Instrument ID: ICPMS2
Calibration: GA00017
Sequence: SLA0046
Standard ID: K011871

Lab Sample ID	Analyte	True	Found	%R	Units
SLA0046-IFB1	Lead-208	0	0.0440		ug/L

* Indicates %R outside of QC limits
NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

DETECTION LEVEL STANDARD
EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Instrument ID: ICPMS1
Calibration: FL00059
Sequence: SKL0348
Lab Sample ID: SKL0348-CRL1

Analyte	True	Found	%R	Units	QC Limts
Lead-208	0.10000	0.110	110	ug/L	50 - 150

* Values outside of QC limits

DETECTION LEVEL STANDARD
EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Instrument ID: ICPMS2
Calibration: GA00017
Sequence: SLA0046
Lab Sample ID: SLA0046-CRL1

Analyte	True	Found	%R	Units	QC Limts
Lead-208	0.10000	0.106	106	ug/L	50 - 150

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00059
Laboratory ID: SKL0348-HCV1
Sequence: SKL0348
Standard ID: K011379

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Lead-208	200.00	197	-1.6	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00059
Laboratory ID: SKL0348-HCV2
Sequence: SKL0348
Standard ID: K011540

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Lead-208	300.00	294	-1.9	10.00

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: GA00017
Laboratory ID: SLA0046-HCV1
Sequence: SLA0046
Standard ID: K011379

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Lead-208	200.00	194	-2.8	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: GA00017
Laboratory ID: SLA0046-HCV2
Sequence: SLA0046
Standard ID: K011540

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Lead-208	300.00	275	-8.4	10.00

* Values outside of QC limits

HOLDING TIME SUMMARY

Analysis: EPA 6020B

Laboratory: Analytical Resources, LLC SDG: 22L0136

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-SS819 22L0136-05	12/06/22 11:11	12/06/22 16:40	12/19/22 15:50	13	180	12/27/22 23:56	22	180	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Instrument: ICPMS1

Analyte	MDL	RL	Units
Lead-208	0.05	0.10	mg/kg

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCU10
Lot Number:	P2-CU682108
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Copper
Starting Material:	Cu Metal
Starting Material Lot#:	2095
Starting Material Purity:	99.9996%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10013 ± 30 µg/mL

Density: 1.032 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9977 ± 50 µg/mL**
ICP Assay NIST SRM 3114 Lot Number: 121207

Assay Method #2 **10024 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10007 ± 46 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.007542	M	Eu	<	0.000942	O	Na		0.001434	M	Se	<	0.016971	M	Zn	<	0.005657
O	Al	<	0.000609	O	Fe		0.008700	M	Nb	<	0.000942	O	Si		0.003052	M	Zr	<	0.000942
M	As	<	0.010371	M	Ga	<	0.000942	M	Nd	<	0.000942	M	Sm	<	0.000942				
M	Au	<	0.001885	M	Gd	<	0.000942	M	Ni		0.003781	M	Sn	<	0.005657				
O	B		0.003663	M	Ge	<	0.005657	M	Os	<	0.000942	M	Sr	<	0.000942				
M	Ba		0.004253	M	Hf	<	0.000942	O	P	<	0.031668	M	Ta	<	0.000942				
M	Be	<	0.000942	O	Hg	<	0.007064	M	Pb		0.005789	M	Tb	<	0.000942				
M	Bi	<	0.000942	M	Ho	<	0.000942	M	Pd	<	0.000942	M	Te	<	0.004714				
O	Ca		0.002304	M	In	<	0.000942	M	Pr	<	0.000942	M	Th	<	0.000942				
M	Cd	<	0.000942	M	Ir	<	0.000942	M	Pt	<	0.000942	O	Ti	<	0.002801				
M	Ce	<	0.000942	O	K		0.000763	M	Rb	<	0.000942	M	Tl	<	0.000942				
M	Co		0.001890	M	La	<	0.000942	M	Re	<	0.000942	M	Tm	<	0.000942				
M	Cr	<	0.005657	O	Li	<	0.000243	i	Rh	<		M	U	<	0.000942				
M	Cs	<	0.000942	M	Lu	<	0.000942	M	Ru	<	0.039588	M	V	<	0.003771				
s	Cu	<		O	Mg		0.000320	O	S		0.007174	M	W	<	0.005657				
M	Dy	<	0.000942	O	Mn		0.000793	M	Sb	<	0.001885	M	Y	<	0.000942				
M	Er	<	0.000942	M	Mo	<	0.005657	M	Sc	<	0.000942	M	Yb	<	0.000942				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 63.55 +2 6 $Cu(H_2O)_6^{2+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4, HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Cu Containing Samples (Preparation and Solution) -Metal (soluble in HNO_3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 63 amu	10 ppt	n/a	40Ar23Na 47Ti16O, 14N12C37Cl, 16O12C35Cl, 23Na40Ca
ICP-OES 219.958 nm	0.01/.002 µg/mL	1	Th, Ta, Nb, U, Hf
ICP-OES 224.700 nm	0.01/.001 µg/mL	1	Pb, Ir, Ni, W
ICP-OES 324.754 nm	0.06/.001 µg/mL		Nb, U, Th, Mo, Hf

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 24, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 24, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGPB10
Lot Number:	S2-PB713228
Matrix:	0.5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Lead
Starting Material:	Lead Nitrate
Starting Material Lot#:	2343
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10042 ± 31 µg/mL

Density: 1.015 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10024 ± 41 µg/mL**
ICP Assay NIST SRM 3128 Lot Number: 101026

Assay Method #2 **10054 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000310	M	Eu	<	0.000310	M	Na		0.001470	M	Se	<	0.009100	O	Zn		0.006155
O	Al		0.017098	O	Fe		0.002496	M	Nb	<	0.000310	O	Si		0.003761	O	Zr	<	0.001700
M	As	<	0.003100	M	Ga	<	0.000310	M	Nd	<	0.000310	M	Sm	<	0.000310				
M	Au	<	0.000910	M	Gd	<	0.000310	O	Ni		0.001709	M	Sn	<	0.001300				
O	B	<	0.005600	M	Ge	<	0.002200	M	Os	<	0.000310	O	Sr		0.000444				
O	Ba		0.007865	M	Hf	<	0.000310	O	P	<	0.038000	M	Ta	<	0.000310				
O	Be	<	0.000320	M	Hg	<	0.002200	s	Pb	<		M	Tb	<	0.000610				
M	Bi	<	0.028000	M	Ho	<	0.000310	M	Pd	<	0.000610	M	Te	<	0.000310				
O	Ca		0.019834	M	In	<	0.000310	M	Pr	<	0.000310	M	Th	<	0.000310				
O	Cd	<	0.000630	M	Ir	<	0.000310	M	Pt	<	0.000910	O	Ti		0.005129				
M	Ce		0.004787	O	K		0.008207	M	Rb	<	0.006700	M	Tl	<	0.016000				
M	Co	<	0.000610	M	La	<	0.001900	M	Re	<	0.000310	M	Tm	<	0.000310				
O	Cr	<	0.001500	O	Li	<	0.000110	O	Rh	<	0.007700	M	U	<	0.000310				
M	Cs	<	0.006100	M	Lu	<	0.000310	M	Ru	<	0.001300	M	V	<	0.001600				
M	Cu	<	0.001600	O	Mg		0.003317	O	S	<	0.052000	M	W	<	0.000910				
M	Dy	<	0.000310	O	Mn	<	0.001600	O	Sb	<	0.015000	M	Y	<	0.000310				
M	Er	<	0.000310	M	Mo	<	0.000610	O	Sc	<	0.000630	M	Yb	<	0.000310				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 207.20 +2 6 $Pb(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, HF and HNO_3. Avoid H_2SO_4. Stable with most metals and inorganic anions forming insoluble carbonate, borate, sulfate, sulfite, sulfide, phosphate, oxalate, chromate, tannate, iodate, and cyanide in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO_3 / LDPE container.

Pb Containing Samples (Preparation and Solution) -Metal (Best dissolved in 1:1 H_2O / HNO_3); Oxides (The many different Pb oxides are soluble in HNO_3 with the exception of PbO_2 which is soluble in HCl or HF); Ores and Alloys (Best attacked using 1:1 H_2O / HNO_3); Organic Matrices (Dry ash and dissolve in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 208 amu	5 ppt	n/a	192Pt16O, 192Os16O
ICP-OES 168.215 nm	0.03 / 0.003 µg/mL	1	Co
ICP-OES 217.000 nm	0.09 / 0.03 µg/mL	1	W, Ir, Hf, Sb, Th
ICP-OES 220.353 nm	0.04 / 0.006 µg/mL	1	Bi, Nb

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 10, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 10, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

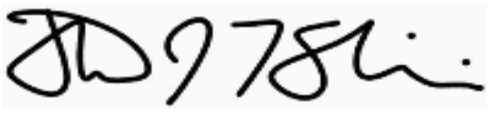
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGZN10
Lot Number:	S2-ZN711249
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Zinc
Starting Material:	Zinc Metal
Starting Material Lot#:	2349
Starting Material Purity:	99.9988%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9992 ± 30 µg/mL

Density: 1.029 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9981 ± 56 µg/mL**
ICP Assay NIST SRM 3168a Lot Number: 120629

Assay Method #2 **9987 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10002 ± 32 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002000	M	Eu	<	0.000500	O	Na		0.008713	M	Se	<	0.048000	s	Zn	<
O	Al	<	0.011000	O	Fe		0.015467	M	Nb	<	0.000500	O	Si		0.007842	M	Zr	< 0.000500
O	As	<	0.012000	M	Ga	<	0.004900	M	Nd	<	0.000500	M	Sm	<	0.000500			
M	Au	<	0.006500	M	Gd	<	0.000500	O	Ni		0.003049	M	Sn		0.002614			
O	B	<	0.019000	M	Ge	<	0.009100	M	Os	<	0.000500	M	Sr	<	0.000500			
M	Ba	<	0.000500	M	Hf	<	0.000500	O	P	<	0.059000	M	Ta	<	0.000500			
O	Be	<	0.000230	O	Hg	<	0.003800	M	Pb		0.016774	M	Tb	<	0.000500			
M	Bi	<	0.002400	M	Ho	<	0.000500	M	Pd	<	0.001000	M	Te	<	0.017000			
O	Ca		0.052283	M	In	<	0.003500	M	Pr	<	0.000500	M	Th	<	0.000500			
O	Cd		0.000588	M	Ir	<	0.001000	M	Pt	<	0.000500	M	Ti	<	0.002000			
M	Ce	<	0.000500	O	K		0.017209	M	Rb	<	0.002500	M	Tl	<	0.000500			
M	Co		0.000653	M	La	<	0.000500	M	Re	<	0.000500	M	Tm	<	0.000500			
O	Cr		0.001089	O	Li	<	0.000230	M	Rh	<	0.000500	M	U	<	0.000500			
M	Cs	<	0.000500	M	Lu	<	0.000500	M	Ru	<	0.005000	M	V	<	0.000500			
O	Cu		0.001938	O	Mg		0.000871	O	S	<	0.048000	M	W	<	0.001000			
M	Dy	<	0.000500	O	Mn		0.000172	M	Sb	<	0.004300	M	Y	<	0.000500			
M	Er	<	0.000500	M	Mo	<	0.001500	O	Sc	<	0.000900	M	Yb	<	0.000500			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 65.39 +2 4 Zn(OH)(aq)1+
Chemical Compatibility -Stable in HCl, HNO3, H2SO4 ,HF, H3PO4. Avoid basic media forming insoluble carbonate and hydroxide. Stable with most metals and inorganic anions in acidic media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.
Zn Containing Samples (Preparation and Solution) -Metal (soluble in HNO3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO3); Organic based (dry ash at 4500C and dissolve ash in HCl) (sulfuric/peroxide acid digestion)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 66 amu	7 ppt	N/A	50Ti16O,50Cr16O, 50V16O, 34S16O2, 32S16O18O, 32S17O2, 33S16O17O, 32S34S, 33S2
ICP-OES 202.548 nm	0.004/0.0002 µg/mL	1	Nb, Cu, Co, Hf
ICP-OES 206.200 nm	0.006/0.0006 µg/mL	1	Sb, Ta, Bi, Os
ICP-OES 213.856 nm	0.002/0.0004 µg/mL	1	Ni, Cu, V

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 22, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

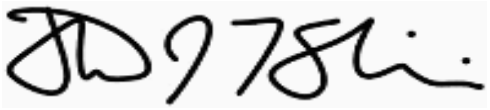
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSE10
Lot Number:	S2-SE711004
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Selenium
Starting Material:	Se Metal
Starting Material Lot#:	1962
Starting Material Purity:	99.9991%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9955 ± 61 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9955 ± 50 µg/mL**
ICP Assay NIST SRM 3149 Lot Number: 100901

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002242	M	Eu	<	0.000373	O	Na		0.013654	s	Se	<		O	Zn		0.002374
M	Al		0.004450	M	Fe		0.008478	O	Nb	<	0.002975	O	Si		0.006249	M	Zr	<	0.001868
O	As	<	0.022040	M	Ga	<	0.000373	M	Nd	<	0.000373	M	Sm	<	0.000373				
M	Au	<	0.000373	M	Gd	<	0.000373	O	Ni		0.001843	M	Sn		0.000847				
O	B	<	0.007714	M	Ge	<	0.002616	M	Os	<	0.000373	M	Sr	<	0.001121				
M	Ba	<	0.001495	M	Hf	<	0.000373	O	P	<	0.022040	M	Ta	<	0.000373				
M	Be	<	0.001495	M	Hg	<	0.002240	M	Pb		0.006358	M	Tb	<	0.006353				
M	Bi	<	0.000373	M	Ho	<	0.000373	M	Pd	<	0.000373	M	Te	<	0.012707				
O	Ca		0.006530	M	In	<	0.000373	M	Pr	<	0.001495	M	Th	<	0.002990				
M	Cd		0.001165	M	Ir	<	0.000373	M	Pt	<	0.000373	M	Ti	<	0.003363				
M	Ce	<	0.000373	O	K		0.001999	M	Rb	<	0.001868	M	Tl		0.008584				
M	Co	<	0.000373	M	La	<	0.001121	M	Re	<	0.000373	M	Tm	<	0.000373				
M	Cr		0.002861	O	Li		0.000062	M	Rh	<	0.000373	M	U	<	0.000373				
M	Cs	<	0.001121	M	Lu	<	0.000373	M	Ru	<	0.001493	M	V	<	0.000747				
M	Cu	<	0.000747	O	Mg		0.001156	O	S		0.024591	M	W	<	0.002242				
M	Dy	<	0.000373	M	Mn	<	0.000373	M	Sb	<	0.002242	M	Y	<	0.000373				
M	Er	<	0.000373	O	Mo	<	0.003195	M	Sc	<	0.001121	M	Yb	<	0.000373				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 78.96 +4 6 H_2SeO_3

Chemical Compatibility -Soluble in HCl, HNO_3,H_3PO_4, H_2SO_4 and HF aqueous matrices and water. It is stable with most inorganic anions but many cationic metals form the insoluble selenites under pH neutral conditions. When fluorinated and/or under acidic conditions precipitation is typically not a problem at moderate to low concentrations.

Stability - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Se Containing Samples (Preparation and Solution) -Metal (soluble in HNO_3); Oxides (readily soluble in water); Minerals and alloys (acid digestion with HNO_3or HNO_3 / HF); Organic Matrices (acid digestion with hot concentrated H_2SO_4 accompanied by the careful dropwise addition of H_2O_2 until clear).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 82 amu	200 ppt	N/A	12C35Cl2
ICP-OES 196.026 nm	0.08/0.006 µg/mL	1	Fe
ICP-OES 203.985 nm	0.2/0.05 µg/mL	1	Sb, Ir, Cr, Ta
ICP-OES 206.279 nm	0.3/0.16 µg/mL	1	Cr, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 17, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 17, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMO10
Lot Number:	S2-MO706255
Matrix:	H2O tr. NH4OH
Value / Analyte(s):	10 000 µg/mL ea: Molybdenum
Starting Material:	Ammonium Molybdate
Starting Material Lot#:	2361
Starting Material Purity:	99.9893%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10026 ± 47 µg/mL

Density: 1.011 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10032 ± 68 µg/mL**
ICP Assay NIST SRM 3134 Lot Number: 130418

Assay Method #2 **10020 ± 65 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000590	M	Eu	<	0.000300	M	Na		0.008739	M	Se	<	0.008000	M	Zn		0.005942
M	Al		0.005592	M	Fe	<	0.006500	M	Nb	<	0.029000	i	Si	<		M	Zr	<	0.001800
M	As	<	0.002100	M	Ga	<	0.000300	i	Nd	<		M	Sm	<	0.000300				
M	Au	<	0.000300	M	Gd	<	0.000300	M	Ni	<	0.008000	M	Sn	<	0.008900				
M	B	<	0.003300	M	Ge	<	0.000300	M	Os	<	0.000590	M	Sr		0.001747				
M	Ba		0.016778	M	Hf	<	0.001800	i	P	<		M	Ta	<	0.004200				
M	Be	<	0.000890	M	Hg	<	0.003300	M	Pb	<	0.000300	M	Tb	<	0.000300				
M	Bi	<	0.000890	M	Ho	<	0.000300	M	Pd	<	0.001800	M	Te	<	0.021000				
O	Ca		0.062920	M	In	<	0.032000	M	Pr	<	0.013000	M	Th	<	0.000300				
O	Cd	<	0.026000	M	Ir	<	0.000300	M	Pt	<	0.000300	O	Ti	<	0.032000				
M	Ce	<	0.008300	M	K		1.293372	M	Rb		0.045442	M	Tl		0.012584				
M	Co		0.005942	M	La	<	0.000300	M	Re	<	0.000300	M	Tm	<	0.000300				
M	Cr		0.005243	O	Li		0.000594	M	Rh	<	0.000300	M	U	<	0.005300				
M	Cs		0.005243	M	Lu	<	0.000300	M	Ru	<	0.079000	M	V	<	0.000890				
M	Cu		0.022371	M	Mg		0.005592	i	S	<		M	W		0.873900				
M	Dy	<	0.000300	M	Mn	<	0.005900	M	Sb		0.015031	M	Y	<	0.000300				
M	Er	<	0.000300	s	Mo	<		M	Sc	<	0.001200	M	Yb	<	0.000300				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 95.94 +6 6,7,8,9 [MoO4]-2(chemical form as received)

Chemical Compatibility -Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5]-2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

Stability - 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4]-2 chemically stable for years in 1% NH4OH in a LDPE container.

Mo Containing Samples (Preparation and Solution) -Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 95 amu	3 ppt	n/a	40Ar39K16O,79Br16O,190Os2+,190Pt2+
ICP-OES 202.030 nm	0.008 / 0.0002 µg/mL	1	Os, Hf
ICP-OES 203.844 nm	0.012 / 0.002 µg/mL	1	
ICP-OES 204.598 nm	0.012 / 0.001 µg/mL	1	Ir, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 04, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **July 04, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTL10
Lot Number:	T2-TL714687
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Thallium
Starting Material:	TlNO3
Starting Material Lot#:	2118
Starting Material Purity:	99.9998%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10030 ± 42 µg/mL

Density: 1.036 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10040 ± 43 µg/mL**
ICP Assay NIST SRM 3158 Lot Number: 151215

Assay Method #2 **10010 ± 65 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL(

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000200	M	Eu	<	0.000200	O	Na		0.002489	M	Se	<	0.011019	O	Zn		0.002298
O	Al	<	0.004184	O	Fe	<	0.002824	M	Nb	<	0.000200	O	Si		0.003760	M	Zr	<	0.000200
M	As	<	0.002003	M	Ga	<	0.000200	M	Nd	<	0.000200	M	Sm	<	0.000200				
O	Au	<	0.002824	M	Gd	<	0.000200	M	Ni		0.001724	M	Sn	<	0.000601				
O	B	<	0.004184	M	Ge	<	0.000801	M	Os	<	0.000198	O	Sr	<	0.000313				
M	Ba	<	0.000400	M	Hf	<	0.000200	O	P	<	0.010460	M	Ta	<	0.000200				
O	Be	<	0.000104	M	Hg	<	0.000794	M	Pb		0.000811	M	Tb	<	0.000200				
M	Bi	<	0.005209	M	Ho	<	0.000200	M	Pd	<	0.000400	M	Te	<	0.005008				
O	Ca		0.002436	M	In	<	0.000200	M	Pr	<	0.000200	M	Th	<	0.000200				
M	Cd		0.001318	M	Ir	<	0.000198	M	Pt	<	0.000801	O	Ti	<	0.001255				
M	Ce	<	0.000200	O	K		0.006175	M	Rb	<	0.000200	s	Tl	<					
M	Co	<	0.000601	M	La	<	0.000200	M	Re	<	0.000200	M	Tm	<	0.000200				
M	Cr	<	0.000801	O	Li	<	0.000177	M	Rh	<	0.000200	M	U	<	0.000200				
M	Cs	<	0.003606	M	Lu	<	0.000200	M	Ru	<	0.000397	M	V	<	0.002203				
M	Cu	<	0.001001	O	Mg		0.000529	O	S	<	0.015690	M	W	<	0.000601				
M	Dy	<	0.000200	M	Mn	<	0.000801	M	Sb	<	0.000400	M	Y	<	0.000200				
M	Er	<	0.000200	M	Mo	<	0.001202	O	Sc	<	0.000711	M	Yb	<	0.000200				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 204.38 +1 6 Tl(H2O)61+
Chemical Compatibility - Soluble in HCl, HNO3, and H2SO4. Stable with most metals and inorganic anions. The sulfite, thiocyanate and oxalate are moderately soluble; the phosphate and arsenite are slightly soluble and the sulfide is insoluble.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.
Tl Containing Samples)Preparation and Solution) -Metal (Best dissolved in HNO3 which forms chiefly the Tl1+ ion.); Oxide (The thallous oxide is readily soluble in water. The thallic oxide requires high levels of acid); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in HCl).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 205 amu	2 ppt	N/A	189Os16O
ICP-OES 190.864 nm	0.04 / 0.004 µg/mL	1	V, Ti
ICP-OES 276.787 nm	0.1 / 0.01 µg/mL	1	Ta, V, Fe, Cr
ICP-OES 351.924 nm	0.2 / 0.02 µg/mL	1	Th, Ce, Zr

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 08, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **February 08, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

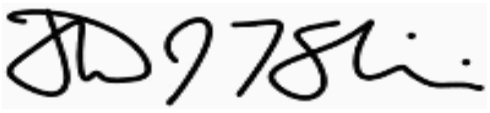
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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Christiansburg, VA 24073 USA
inorganicventures.com

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCD10
Lot Number:	S2-CD710508
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Cadmium
Starting Material:	Cd Metal
Starting Material Lot#:	1953
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10008 ± 30 µg/mL

Density: 1.029 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10010 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #2 **10011 ± 30 µg/mL**
ICP Assay NIST SRM 3108 Lot Number: 130116

Assay Method #3 **10003 ± 30 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag	<	0.003200	O	Eu	<	0.002500	O	Na		0.005499	M	Se	<	0.005700	O	Zn	<	0.001100
O	Al		0.008903	O	Fe		0.000602	M	Nb	<	0.000400	O	Si		0.016758	O	Zr	<	0.002600
M	As	<	0.003600	M	Ga	<	0.001200	M	Nd	<	0.000800	M	Sm	<	0.000400				
M	Au	<	0.000810	M	Gd	<	0.000400	M	Ni	<	0.003600	M	Sn	<	0.003200				
O	B		0.004189	O	Ge	<	0.012000	M	Os	<	0.000810	O	Sr	<	0.000330				
M	Ba	<	0.002400	M	Hf	<	0.000400	O	P	<	0.022000	M	Ta	<	0.000800				
M	Be	<	0.000400	M	Hg	<	0.001700	M	Pb	<	0.002400	M	Tb	<	0.000400				
M	Bi	<	0.000400	M	Ho	<	0.000400	M	Pd	<	0.001200	M	Te	<	0.008000				
O	Ca		0.011259	O	In	<	0.013000	M	Pr	<	0.000400	M	Th	<	0.000400				
s	Cd	<		M	Ir	<	0.000410	M	Pt	<	0.000400	O	Ti		0.000602				
M	Ce	<	0.000400	O	K		0.005237	M	Rb	<	0.004400	M	Tl		0.000523				
M	Co	<	0.000400	M	La	<	0.000400	M	Re	<	0.000400	M	Tm	<	0.000400				
O	Cr	<	0.005100	O	Li	<	0.000054	M	Rh	<	0.000400	M	U	<	0.000400				
M	Cs	<	0.002400	M	Lu	<	0.000400	M	Ru	<	0.002500	M	V	<	0.002000				
O	Cu	<	0.004800	O	Mg		0.000288	O	S	<	0.022000	M	W	<	0.000400				
M	Dy	<	0.000400	O	Mn	<	0.000860	O	Sb	<	0.018000	M	Y	<	0.000400				
M	Er	<	0.000400	M	Mo	<	0.001600	O	Sc	<	0.000430	M	Yb	<	0.000400				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 112.41 +2 4 Cd2(OH) (aq)3+ and Cd(OH)(aq)

Chemical Compatibility -Stable in HCl, HNO3, H2SO4 , and HF. Avoid basic media forming insoluble carbonate and hydroxide.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO3 / LDPE container.

Cd Containing Samples (Preparation and Solution) -Metal (soluble in HNO3); Oxides (soluble in HCl or HNO3); Ores (dissolve in HCl /HNO3 then take to fumes with H2SO4. The silica and lead sulfate are filtered off after the addition of water); Organic based (dry ash at 450°C and dissolve ash in HCl), (sulfuric / peroxide acid digestion).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 111 amu	11 ppt	n/a	95Mo16O
ICP-OES 214.438 nm	0.003 / 0.0003 µg/mL	1	Pt, Ir
ICP-OES 226.502 nm	0.003 / 0.0003 µg/mL	1	Ir
ICP-OES 228.802 nm	0.003 / 0.0003 µg/mL	1	Co, Ir, As, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 01, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 01, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMN10
Lot Number:	S2-MN704240
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Manganese
Starting Material:	Mn Metal
Starting Material Lot#:	2275
Starting Material Purity:	99.9909%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10011 ± 30 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9989 ± 69 µg/mL**
ICP Assay NIST SRM 3132 Lot Number: 050429

Assay Method #2 **10011 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10024 ± 47 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001500	M	Eu	<	0.000730	O	Na		0.176097	M	Se	<	0.006600	M	Zn		0.009925
O	Al		0.004322	M	Fe	<	0.650000	M	Nb	<	0.000730	O	Si		0.097654	M	Zr	<	0.000730
M	As	<	0.008000	M	Ga		0.004322	M	Nd	<	0.001500	M	Sm	<	0.000730				
M	Au	<	0.000730	M	Gd	<	0.000730	M	Ni		0.024013	M	Sn	<	0.002200				
M	B		0.068838	M	Ge	<	0.004400	M	Os	<	0.000730	O	Sr		0.000928				
M	Ba	<	0.001500	M	Hf	<	0.000730	i	P	<		M	Ta	<	0.000730				
M	Be	<	0.000730	M	Hg	<	0.002200	M	Pb		0.007364	M	Tb	<	0.000730				
M	Bi	<	0.003000	M	Ho	<	0.000730	M	Pd	<	0.000730	M	Te	<	0.019000				
O	Ca		0.062434	M	In	<	0.003000	M	Pr	<	0.000730	M	Th	<	0.000730				
M	Cd	<	0.001500	M	Ir	<	0.000730	M	Pt	<	0.000730	O	Ti	<	0.006500				
M	Ce	<	0.007300	O	K		0.006403	M	Rb	<	0.006600	M	Tl	<	0.000730				
O	Co		0.014728	M	La	<	0.003000	M	Re	<	0.000730	M	Tm	<	0.000730				
O	Cr		0.272151	O	Li		0.000416	M	Rh	<	0.003000	M	U	<	0.001500				
M	Cs	<	0.000730	M	Lu	<	0.000730	M	Ru	<	0.004400	M	V	<	0.000730				
O	Cu		0.007684	O	Mg		0.320177	i	S	<		M	W	<	0.004400				
M	Dy	<	0.001500	s	Mn	<		M	Sb	<	0.021000	O	Y		0.001360				
M	Er	<	0.001500	M	Mo		0.010245	O	Sc	<	0.004100	M	Yb	<	0.000730				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 54.94 +2 6 $Mn(H_2O)_6^{2+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4 ,HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO_3/LDPE container.

Mn Containing Samples (Preparation and Solution) -Metal (Soluble in dilute acids); Oxides (Soluble in dilute acids); Ores (Dissolve with HCl. If silica is present add HF and then fume off silica by adding H_2SO_4 and heat to SO_3 fumes - dense white fumes).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 55 amu	10 ppt	n/a	40Ar14N1H,39K16O,37Cl18O,40Ar15N,38Ar17O,36Ar18O1H ,38Ar16O1H,37Cl17O1H,23Na32S
ICP-OES 257.610 nm	0.0014 / 0.00002 µg/mL	1	Ce, W, Re
ICP-OES 259.373 nm	0.0016 / 0.00002 µg/mL	1	U, Ta, Mo, Fe, Nb
ICP-OES 260.569 nm	0.0021 / 0.00002 µg/mL	1	Co

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 17, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 17, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSB10
Lot Number:	R2-SB688559
Matrix:	3% (v/v) HNO3 3% (w/v) tartaric acid
Value / Analyte(s):	10 000 µg/mL ea: Antimony
Starting Material:	Antimony Metal
Starting Material Lot#:	1857
Starting Material Purity:	99.9894%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10003 ± 47 µg/mL

Density: 1.061 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10003 ± 41 µg/mL**
ICP Assay NIST SRM 3102a Lot Number: 140911

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000200	M	Eu	<	0.000300	O	Na		0.140000	M	Se	<	0.007300	O	Zn		0.005000
M	Al		0.003200	O	Fe		0.060000	M	Nb	<	0.000100	O	Si		0.150000	O	Zr	<	0.006300
M	As	<	0.004400	M	Ga	<	0.000400	M	Nd	<	0.000100	M	Sm	<	0.000100				
M	Au	<	0.000210	M	Gd	<	0.000100	O	Ni		0.004800	M	Sn	<	0.001800				
M	B	<	0.011000	M	Ge	<	0.000600	M	Os	<	0.000110	O	Sr		0.000750				
O	Ba	<	0.004900	M	Hf	<	0.000100	O	P		0.540000	M	Ta		0.003300				
M	Be	<	0.000400	M	Hg	<	0.000110	M	Pb	<	0.000400	M	Tb	<	0.000100				
M	Bi	<	0.000200	M	Ho	<	0.000100	M	Pd	<	0.000210	M	Te	<	0.000600				
O	Ca		0.110000	M	In	<	0.000100	M	Pr	<	0.001600	M	Th	<	0.000100				
M	Cd	<	0.000200	M	Ir	<	0.000110	M	Pt	<	0.000600	M	Ti	<	0.002800				
M	Ce		0.006500	O	K		0.020000	M	Rb	<	0.001000	M	Tl	<	0.000100				
M	Co	<	0.000200	O	La	<	0.016000	M	Re	<	0.000100	M	Tm	<	0.000100				
M	Cr		0.006900	O	Li	<	0.000430	M	Rh	<	0.000300	M	U	<	0.000100				
M	Cs	<	0.000200	M	Lu	<	0.000100	M	Ru	<	0.000310	M	V	<	0.000800				
M	Cu	<	0.000600	O	Mg		0.021000	n	S	<		M	W	<	0.000200				
M	Dy	<	0.000100	O	Mn		0.001900	s	Sb	<		M	Y	<	0.000100				
M	Er	<	0.000100	M	Mo	<	0.000500	O	Sc	<	0.002300	M	Yb	<	0.000100				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 121.75 +3 6 Sb(O)C4H4O6-1

Chemical Compatibility -Stable in conc. HCl, dilute or conc. HF. Stable in dilute HNO3 as the fluoride or tartrate complex. Avoid basic media. Stable with most metals and inorganic anions in acidic media as the tartrate provided the acidity is not too high or the acid is oxidizing causing loss of the stabilizing tartrate ion. The fluoride complex of antimony is stable in strong acid but you should only mix with other metals that are fluorinated.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-2% HNO3 / LDPE container.

Sb Containing Samples (Preparation and Solution) -Metal and alloys (Soluble in H2O / HF / HNO3 mixture); Oxides (Soluble in HCl and tartaric acid or H2O / HF / HNO3 mixtures); Ores (fusion with Na2CO3 in Pt0 followed by dissolving the fuseate in a H2O / HF / HNO3 mixture); Organic based (sulfuric acid / hydrogen peroxide digestion)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 121 amu	5 ppt	N/A	105Pd16O, 89Y16O2
ICP-OES 206.833 nm	0.03/0.003 µg/mL	1	Ta, Cr, Ge, Hf
ICP-OES 217.581 nm	0.05/0.005 µg/mL	1	Nb, W, Re, Fe
ICP-OES 231.147 nm	0.06/0.006 µg/mL	1	Ni, Co, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 30, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 30, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAS10
Lot Number:	T2-AS718260
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Arsenic
Starting Material:	As Metal
Starting Material Lot#:	2208
Starting Material Purity:	99.9971%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10060 ± 40 µg/mL

Density: 1.037 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10062 ± 46 µg/mL**
ICP Assay NIST SRM 3103a Lot Number: 100818

Assay Method #2 **10055 ± 76 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	< 0.003200	M	Eu	< 0.000530	O	Na	0.032544	M	Se	< 0.006300	O	Zn	0.001952			
M	Al	0.007593	O	Fe	0.001475	O	Nb	< 0.012000	O	Si	0.238658	O	Zr	< 0.004100			
s	As	<	M	Ga	< 0.000530	M	Nd	< 0.000530	M	Sm	< 0.000530						
M	Au	< 0.003100	M	Gd	< 0.000530	M	Ni	< 0.002100	M	Sn	< 0.000530						
M	B	0.026035	M	Ge	< 0.001600	M	Os	< 0.000520	M	Sr	< 0.000530						
M	Ba	< 0.000530	M	Hf	< 0.000530	O	P	< 0.043000	M	Ta	< 0.000530						
O	Be	< 0.000360	M	Hg	< 0.001600	M	Pb	< 0.002100	M	Tb	< 0.000530						
M	Bi	< 0.000530	M	Ho	< 0.000530	M	Pd	< 0.001100	M	Te	< 0.004700						
O	Ca	0.004339	M	In	< 0.023000	M	Pr	< 0.005300	M	Th	< 0.000530						
M	Cd	< 0.001100	M	Ir	< 0.000520	M	Pt	< 0.000530	O	Ti	< 0.002300						
M	Ce	< 0.000530	O	K	0.002061	M	Rb	< 0.000530	M	Tl	< 0.000530						
M	Co	< 0.000530	M	La	< 0.001100	M	Re	< 0.000530	M	Tm	< 0.000530						
O	Cr	< 0.001800	O	Li	< 0.000120	M	Rh	< 0.000530	M	U	< 0.000530						
M	Cs	< 0.005300	M	Lu	< 0.000530	M	Ru	< 0.000520	M	V	< 0.002700						
M	Cu	< 0.001600	O	Mg	0.000154	O	S	0.028205	M	W	< 0.012000						
M	Dy	< 0.000530	O	Mn	0.000154	M	Sb	< 0.000530	M	Y	< 0.000530						
M	Er	< 0.000530	M	Mo	< 0.000530	O	Sc	< 0.001700	M	Yb	< 0.000530						

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 74.92 ; mix of +3 and +5 ; 6 ; H3AsO4 and HAsO2

Chemical Compatibility - Arsenic has no cationic chemistry. It is soluble in HCl, HNO3,H3PO4, H2SO4 and HF aqueous matrices water and NH4OH . It is stable with most inorganic anions (forms arsenate when boiled with chromate) but many cationic metals form the insoluble arsenates under pH neutral conditions. When fluorinated and / or under acidic conditions arsenate formation is typically not a problem at moderate to low concentrations.

Stability - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO3 / LDPE container.

As Containing Samples (Preparation and Solution) - Metal (soluble in 1:1 H2O / HNO3); Oxides (the oxide exists in crystalline and amorphous forms where the amorphic form is more water soluble. The oxides typically dissolve in dilute acidic solutions when boiled); Minerals (one gram of powered sample is fused in a Ni crucible with 10 grams of a 1:1 mix of K2CO3 and KNO3 and the melt extracted with hot water); Organic Matrices (0.2 to 0.5 grams of sample are fused with 15 grams of a 1:1 Na2CO3 / Na2O2 mix in a Ni crucible. The fuseate is extracted with water and acidified with HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 75 amu	20 ppt	N/A	40Ar35Cl, 59Co16O, 36Ar38Ar1H,8Ar37Cl,Ar39K, 150Nd2+,150Sm2+
ICP-OES 189.042 nm	0.05/0.005 µg/mL	1	Cr
ICP-OES 193.696 nm	0.1/0.01 µg/mL	1	V, Ge
ICP-OES 228.812 nm	0.1/0.01 µg/mL	1	Cd, Pt, Ir, Co

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 10, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 10, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGBA10
Lot Number:	R2-BA692576
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Barium
Starting Material:	Barium Nitrate
Starting Material Lot#:	1969
Starting Material Purity:	99.9982%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10022 ± 30 µg/mL

Density: 1.025 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1	**10018 ± 50 µg/mL** ICP Assay NIST SRM 3104a Lot Number: 140909
Assay Method #2	**10023 ± 31 µg/mL** Gravimetric NIST SRM Lot Number: See Sec. 4.2
Assay Method #3	**10023 ± 30 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000410	O	Eu	<	0.005200	O	Na		0.004610	M	Se	<	0.003700	O	Zn		0.000658
M	Al	<	0.003100	O	Fe		0.015707	M	Nb	<	0.000210	O	Si		0.005573	M	Zr	<	0.001300
M	As	<	0.001300	M	Ga	<	0.000210	M	Nd	<	0.000210	O	Sm	<	0.021000				
M	Au	<	0.001300	M	Gd	<	0.000210	M	Ni	<	0.000810	M	Sn	<	0.000410				
O	B	<	0.005200	M	Ge	<	0.002500	M	Os	<	0.000410	O	Sr		0.003850				
s	Ba	<		M	Hf	<	0.000810	O	P	<	0.026000	M	Ta	<	0.000410				
O	Be	<	0.000320	M	Hg	<	0.000210	M	Pb	<	0.002300	M	Tb	<	0.000210				
M	Bi	<	0.000210	M	Ho	<	0.000210	M	Pd	<	0.000210	M	Te	<	0.001900				
O	Ca		0.007093	M	In	<	0.000210	M	Pr	<	0.000210	M	Th	<	0.000210				
M	Cd	<	0.000210	M	Ir	<	0.000210	M	Pt	<	0.000210	M	Ti	<	0.002100				
M	Ce	<	0.001300	O	K		0.035467	M	Rb	<	0.002100	M	Tl	<	0.000210				
M	Co	<	0.000410	O	La	<	0.005200	M	Re	<	0.000210	M	Tm	<	0.000410				
M	Cr	<	0.001700	O	Li	<	0.000630	M	Rh	<	0.000210	M	U	<	0.000210				
M	Cs	<	0.003300	M	Lu	<	0.001700	M	Ru	<	0.000210	O	V	<	0.005200				
M	Cu	<	0.001300	O	Mg		0.000861	O	S		0.268539	M	W	<	0.000410				
M	Dy	<	0.000210	M	Mn	<	0.000410	M	Sb	<	0.001300	O	Y	<	0.005200				
M	Er	<	0.001300	M	Mo	<	0.000410	M	Sc	<	0.000410	M	Yb	<	0.001300				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 137.33 +2 6 $Ba(H_2O)_6^{+2}$
Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, iodate, molybdate, sulfite and tungstate in neutral aqueous media.
Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1 -10,000 ppm solutions chemically stable for years in 1-3.5% HNO_3 / LDPE container.
Ba Containing Samples (Preparation and Solution) -Metal(is best dissolved in diluted HNO_3); Ores(Carbonate fusion in Pt0 followed by HCl dissolution. If sulfate is present dissolve the fuseate using HCl / tartaric acid to prevent $BaSO_4$ precipitate); Organic Matrices (dry ash and dissolve in dilute HCl.)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 138 amu	1 ppt	N/A	122Sn16O, 122Te16O
ICP-OES 230.424 nm	0.004/0.0005 µg/mL	1	Mo, Ir, Co
ICP-OES 233.527 nm	0.004/0.0003 µg/mL	1	
ICP-OES 455.403 nm	0.002/0.0001 µg/mL	1	Zr, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 11, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 11, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGBE10
Lot Number:	R2-BE692992
Matrix:	6% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Beryllium
Starting Material:	Beryllium Acetate
Starting Material Lot#:	2281
Starting Material Purity:	99.9998%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10032 ± 41 µg/mL

Density: 1.128 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10042 ± 67 µg/mL**
ICP Assay NIST SRM 3105a Lot Number: 090514

Assay Method #2 **10025 ± 51 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001100	M	Eu	<	0.000270	O	Na		0.040962	M	Se	<	0.005000	M	Zn		0.013054
O	Al		0.016205	O	Fe		0.015754	M	Nb	<	0.000270	O	Si		0.024307	O	Zr	<	0.001900
M	As	<	0.002900	M	Ga	<	0.000270	M	Nd	<	0.000270	M	Sm	<	0.000270				
M	Au	<	0.000520	M	Gd	<	0.000270	M	Ni	<	0.003700	M	Sn	<	0.000790				
M	B	<	0.091000	M	Ge	<	0.000270	M	Os	<	0.000260	M	Sr		0.000630				
M	Ba		0.002700	M	Hf	<	0.000270	O	P	<	0.066000	M	Ta	<	0.000270				
s	Be	<		M	Hg	<	0.000520	M	Pb	<	0.000270	M	Tb	<	0.000270				
M	Bi	<	0.000530	M	Ho	<	0.000270	M	Pd	<	0.000520	M	Te	<	0.003700				
O	Ca		0.072022	M	In	<	0.000790	M	Pr	<	0.000270	M	Th	<	0.000270				
M	Cd	<	0.000790	M	Ir	<	0.000260	M	Pt	<	0.000270	O	Ti	<	0.000400				
M	Ce	<	0.000270	O	K		0.045014	M	Rb	<	0.000270	M	Tl	<	0.000790				
O	Co	<	0.003200	M	La	<	0.000270	M	Re	<	0.000270	M	Tm	<	0.000270				
O	Cr	<	0.001800	O	Li	<	0.000660	M	Rh	<	0.001100	M	U	<	0.000270				
M	Cs		0.001440	M	Lu	<	0.000270	M	Ru	<	0.000260	M	V	<	0.000790				
M	Cu	<	0.002100	O	Mg		0.016205	i	S	<		M	W	<	0.000530				
M	Dy	<	0.000270	M	Mn		0.001215	M	Sb	<	0.000270	M	Y	<	0.000270				
M	Er	<	0.000270	M	Mo	<	0.000530	O	Sc	<	0.000930	M	Yb	<	0.000270				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 9.01 +2 4 $Be(H_2O)_4^{+2}$

Chemical Compatibility -Soluble in HCl, HNO_3, H_2SO_4 and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1 % HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 5-10 % HNO_3 / LDPE container.

Be Containing Samples (Preparation and Solution) - Meta l(is best dissolved in diluted H_2SO_4); BeO (boiling nitric, hydrochloric, or sulfuric acids or $KHSO_4$ fusion); Ores (H_2SO_4/HF digestion or carbonate fusion in Pt0); Organic Matrices (sulfuric/peroxide digestion or nitric/sulfuric/perchloric acid decomposition, or dry ash and dissolution according to the BeO procedure above).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 9 amu	4 ppt	N/A	
ICP-OES 234.861 nm	0.0003/0.00016 µg/mL	1	Fe, Ta, Mo
ICP-OES 313.042 nm	0.0003/0.00009 µg/mL	1	V, Ce, U
ICP-OES 313.107 nm	0.0007/0.0005 µg/mL	1	Ce, Th, Tm

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

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11.0 CERTIFICATION, LOT EXPIRATION, PERIOD OF VALIDITY AND REVISION HISTORY

11.1 Certification Issue Date

May 13, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 13, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

11.4 Revision Status

- Revision 1 - Revised on Thursday, Jan 14, 2021 by utruong. Revision was made for the following reason: Modified Section 7 Chemical Form in Solution.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCO10
Lot Number:	R2-CO695285
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Cobalt
Starting Material:	Co Metal
Starting Material Lot#:	2326
Starting Material Purity:	99.9934%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10012 ± 31 µg/mL

Density: 1.056 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10031 ± 67 µg/mL**
ICP Assay NIST SRM 3113 Lot Number: 190630

Assay Method #2 **10019 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10000 ± 35 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	0.014660	M	Eu	< 0.000590	O	Na	0.007534	M	Se	< 0.019000	M	Zn	0.003461			
M	Al	< 0.024000	M	Fe	0.050905	M	Nb	< 0.000590	O	Si	0.075340	M	Zr	< 0.001200			
i	As	<	M	Ga	< 0.000590	M	Nd	< 0.000590	M	Sm	< 0.000590						
M	Au	< 0.004100	M	Gd	< 0.000590	O	Ni	0.427608	M	Sn	< 0.001200						
M	B	< 0.031000	M	Ge	< 0.003000	M	Os	< 0.000590	O	Sr	< 0.000260						
M	Ba	< 0.000590	M	Hf	< 0.000590	n	P	<	M	Ta	< 0.001200						
O	Be	< 0.001300	M	Hg	< 0.001800	M	Pb	0.003257	M	Tb	< 0.000590						
M	Bi	< 0.003000	M	Ho	< 0.000590	M	Pd	< 0.000590	M	Te	< 0.005300						
O	Ca	0.010588	M	In	< 0.001200	M	Pr	< 0.000590	M	Th	< 0.000590						
M	Cd	< 0.004700	M	Ir	< 0.001200	M	Pt	< 0.002400	M	Ti	< 0.014000						
M	Ce	< 0.000590	O	K	0.008144	M	Rb	< 0.000590	M	Tl	0.002647						
s	Co	<	M	La	< 0.000590	M	Re	< 0.000590	M	Tm	< 0.000590						
M	Cr	< 0.021000	O	Li	< 0.000130	M	Rh	< 0.000590	M	U	< 0.000590						
M	Cs	< 0.002400	M	Lu	< 0.000590	M	Ru	< 0.007100	O	V	< 0.000880						
M	Cu	0.189369	O	Mg	0.001893	n	S	<	M	W	< 0.000590						
M	Dy	< 0.000590	M	Mn	< 0.001800	M	Sb	< 0.003600	M	Y	< 0.000590						
M	Er	< 0.000590	M	Mo	< 0.002400	O	Sc	< 0.001600	M	Yb	< 0.000590						

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 58.93 +2 6 $Co(H_2O)_6^{2+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4 ,HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Co Containing Samples (Preparation and Solution) - Metal (soluble in HNO_3); Oxides (Soluble in HCl); Ores (dissolve in HCl / HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 59 amu	2 ppt	n/a	42Ca16O1H , 40Ar18O1H , 36Ar23Na, 43Ca16O, 24Mg35Cl
ICP-OES 228.616 nm	0.01/0.001 µg/mL	1	
ICP-OES 237.862 nm	0.01/0.002 µg/mL	1	W, Re, Al, Ta
ICP-OES 238.892 nm	0.01/0.002 µg/mL	1	Fe, W, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 04, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 04, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAG10
Lot Number:	S2-AG712977
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Silver
Starting Material:	Ag Shot
Starting Material Lot#:	2289
Starting Material Purity:	99.9951%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10051 ± 30 µg/mL

Density: 1.056 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10051 ± 52 µg/mL**
ICP Assay NIST SRM 3151 Lot Number: 160729

Assay Method #2 **10051 ± 19 µg/mL**
Volhard NIST SRM 999c Lot Number: 999c

Assay Method #3 **10049 ± 31 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

s	Ag	<		M	Eu	<	0.000260	O	Na		0.003811	M	Se	<	0.003900	O	Zn		0.048146
M	Al		0.002688	O	Fe		0.006419	M	Nb	<	0.000260	O	Si		0.005215	M	Zr	<	0.000260
M	As	<	0.001100	M	Ga	<	0.000260	M	Nd	<	0.000260	M	Sm	<	0.000260				
M	Au	<	0.000260	M	Gd	<	0.000260	O	Ni		0.001765	M	Sn		0.020060				
O	B	<	0.004300	M	Ge	<	0.002300	M	Os	<	0.001100	O	Sr	<	0.000110				
M	Ba	<	0.000520	M	Hf	<	0.000260	O	P	<	0.017000	M	Ta	<	0.000260				
O	Be	<	0.001100	M	Hg	<	0.000770	M	Pb	<	0.003600	M	Tb	<	0.000260				
M	Bi		0.004814	M	Ho	<	0.000260	M	Pd		0.044134	M	Te	<	0.009000				
O	Ca		0.005215	M	In		0.003691	M	Pr	<	0.000260	M	Th	<	0.000260				
M	Cd	<	0.000260	M	Ir	<	0.000520	M	Pt	<	0.001100	O	Ti	<	0.000440				
M	Ce	<	0.002100	O	K	<	0.008700	M	Rb	<	0.001100	M	Tl	<	0.004100				
O	Co	<	0.000330	M	La	<	0.000260	M	Re	<	0.000260	M	Tm	<	0.000260				
O	Cr	<	0.002500	O	Li	<	0.000110	M	Rh	<	0.000520	M	U	<	0.000260				
M	Cs	<	0.002600	M	Lu	<	0.000260	M	Ru	<	0.000260	M	V	<	0.000260				
O	Cu		0.357085	O	Mg		0.001203	O	S	<	0.017000	M	W	<	0.000260				
M	Dy	<	0.000260	O	Mn	<	0.000220	M	Sb	<	0.014000	M	Y	<	0.000260				
M	Er	<	0.000260	M	Mo	<	0.000260	O	Sc	<	0.000220	M	Yb	<	0.000260				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 107.87 +1 6 $Ag(H_2O)_6^+$

Chemical Compatibility -Stable in HNO_3, and HF. Avoid basic media. Ag forms more insoluble salts than any other metal. It also is subject to photochemical reduction to the metal in HCl media although 10 µg/mL solutions in 10% HCl [$AgCl_{x1-x}$] are commonly used in the analytical laboratory. The most common solubility problems exist with arsenate, arsenite , bromide, chloride, iodide, carbonate , chromate, cyanide, iodate, oxalate, oxide, sulfate, sulfide, tartrate, and thiocyanate in aqueous media. The addition of nitric acid renders many of these salts soluble.

Stability - 2-100 ppb levels stable for 75+ days when mixed with equivalent levels of all other elements including the precious metals (where chloride is present) when in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Ag Containing Samples (Preparation and Solution) -Metal (Soluble in HNO_3); Oxides (Soluble in HNO_3); Ores (Digestion with conc. HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 107 amu	1 ppt	N/A	91Zr16O
ICP-OES 243.779 nm	0.12/0.01 µg/mL	1	Mn, Th, Ni, Rh
ICP-OES 328.068 nm	0.007/0.0007 µg/mL	1	Ce, Rh, V
ICP-OES 338.289 nm	0.013/0.001 µg/mL	1	Ce, Cr, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCR(3)10
Lot Number:	S2-CR709784
Matrix:	10% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Chromium
Starting Material:	Cr Metal
Starting Material Lot#:	2328
Starting Material Purity:	99.9951%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10027 ± 41 µg/mL

Density: 1.072 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10027 ± 40 µg/mL**
ICP Assay NIST SRM 3112a Lot Number: 170630

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001700	M	Eu	<	0.003400	O	Na		0.090372	M	Se	<	0.012000	O	Zn	<	0.006100
M	Al		0.034916	O	Fe		0.246471	M	Nb	<	0.017000	n	Si	<		M	Zr	<	0.007800
M	As	<	0.028000	O	Ga	<	0.013000	M	Nd	<	0.013000	M	Sm	<	0.006900				
M	Au	<	0.001700	M	Gd	<	0.000560	M	Ni		0.016020	M	Sn		0.006983				
O	B	<	0.025000	O	Ge	<	0.014000	M	Os	<	0.000560	M	Sr		0.006367				
M	Ba	<	0.008900	M	Hf	<	0.000560	i	P	<		M	Ta	<	0.000560				
M	Be	<	0.013000	M	Hg	<	0.001700	M	Pb		0.010064	M	Tb	<	0.000560				
M	Bi	<	0.002300	M	Ho	<	0.000560	M	Pd	<	0.021000	M	Te	<	0.010000				
O	Ca		0.075995	M	In	<	0.000560	M	Pr	<	0.001700	M	Th	<	0.000560				
M	Cd	<	0.000560	M	Ir	<	0.000560	M	Pt	<	0.001200	O	Ti		0.013555				
M	Ce	<	0.001200	O	K		0.043132	i	Rb	<		M	Tl	<	0.000560				
M	Co	<	0.002600	M	La	<	0.001200	M	Re	<	0.001200	O	Tm	<	0.013000				
s	Cr	<		O	Li		0.000390	M	Rh	<	0.095000	M	U	<	0.000560				
M	Cs	<	0.007800	M	Lu	<	0.000560	M	Ru	<	0.087000	O	V		0.014993				
O	Cu		0.007599	O	Mg		0.000883	i	S	<		M	W	<	0.049000				
M	Dy	<	0.000560	M	Mn		0.008626	M	Sb	<	0.003400	M	Y	<	0.001700				
M	Er	<	0.019000	M	Mo	<	0.032000	M	Sc		0.003080	M	Yb	<	0.000560				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 52.00 +3 6 $Cr(H_2O)_6^{3+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4, HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Cr3 Containing Samples (Preparation and Solution) -Metal (soluble in HCl); Oxides/Ores (Chrome ore/oxides are very difficult to dissolve. The following procedures [A-D] are commonly used: A. Fusion with $KHSO_4$ and extraction with hot KCl. The residue fused with Na_2CO_3 and $KClO_3$, 3:1. B. Fusion with $NaKSO_4$ and NaF 2:1, C. Fusion with magnesia or lime and sodium or potassium carbonates, 4:1. D. Fusion with Na_2O_2 or NaOH and KNO_3 or NaOH and Na_2O_2. Nickel, iron, copper, or silver crucibles should be used for D. Platinum may be used for A, <, C); Organic Matrices (ash at 4500C followed by one of the fusion methods above or sulfuric/hydrogen peroxide acid digestions may be applicable to non oxide containing samples).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 52 amu	40 ppt	N/A	36S16O, 36Ar16O - The 50Cr, 53Cr, 54Cr lines suffer from many more potential interferences from sulfur, chlorine and argon compounds of oxygen, nitrogen and carbon.
ICP-OES 205.552 nm	0.006/0.0008 µg/mL	1	Os
ICP-OES 276.654 nm	0.01/0.001 µg/mL	1	Cu, Ta, V
ICP-OES 284.325 nm	0.008/0.0007 µg/mL	1	

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

October 26, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **October 26, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGNI10
Lot Number:	P2-NI686384
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Nickel
Starting Material:	Ni Metal
Starting Material Lot#:	2277 and 2282
Starting Material Purity:	99.9992%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9979 ± 30 µg/mL

Density: 1.038 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9971 ± 54 µg/mL**
ICP Assay NIST SRM 3136 Lot Number: 120619

Assay Method #2 **9970 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **9993 ± 33 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag		0.002606	M	Eu	<	0.001100	O	Na		0.004965	O	Se	<	0.067000	M	Zn		0.006578
M	Al	<	0.013000	O	Fe		0.018618	M	Nb	<	0.001100	O	Si		0.010923	M	Zr	<	0.001100
O	As	<	0.067000	M	Ga	<	0.001100	M	Nd	<	0.001100	M	Sm	<	0.001100				
M	Au	<	0.002100	M	Gd	<	0.001100	s	Ni	<		M	Sn	<	0.016000				
M	B	<	0.017000	M	Ge	<	0.004200	M	Os		0.002110	O	Sr	<	0.000940				
M	Ba	<	0.001100	M	Hf	<	0.001100	i	P	<		M	Ta	<	0.001100				
O	Be	<	0.000410	M	Hg		0.014895	M	Pb		0.006578	M	Tb	<	0.001100				
M	Bi	<	0.004200	M	Ho	<	0.001100	M	Pd	<	0.001100	M	Te	<	0.015000				
O	Ca		0.003351	M	In	<	0.001100	M	Pr	<	0.001100	M	Th	<	0.001100				
M	Cd		0.001365	M	Ir		0.004716	M	Pt	<	0.001100	M	Ti	<	0.004200				
M	Ce	<	0.001100	O	K		0.004716	M	Rb	<	0.001100	M	Tl	<	0.001100				
O	Co		0.017377	M	La	<	0.001100	M	Re		0.001737	M	Tm	<	0.001100				
O	Cr	<	0.006700	O	Li	<	0.000140	M	Rh	<	0.006300	M	U	<	0.001100				
M	Cs	<	0.007300	M	Lu	<	0.001100	M	Ru	<	0.019000	M	V	<	0.002100				
M	Cu		0.004096	O	Mg		0.000372	i	S	<		M	W	<	0.006300				
M	Dy	<	0.001100	O	Mn	<	0.001900	M	Sb		0.005833	O	Y	<	0.000540				
M	Er	<	0.001100	M	Mo	<	0.008400	M	Sc	<	0.002100	M	Yb	<	0.001100				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 58.69 +2 6 Ni(H2O)62+
Chemical Compatibility -Stable in HCl, HNO3, H2SO4 ,HF, H3PO4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.
Ni Containing Samples (Preparation and Solution) -Metal (Soluble in HNO3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO3).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 60 amu	100 ppt	n/a	43Ca16O1H , 44Ca16O, 23Na37Cl
ICP-OES 221.647 nm	0.01 / 0.0009 µg/mL	1	Si
ICP-OES 231.604 nm	0.02 / 0.002 µg/mL	1	Sb, Ta, Co
ICP-OES 232.003 nm	0.02 / 0.006 µg/mL	1	Cr, Re, Os, Nb, Ag, Pt, Fe

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 02, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 02, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGV10
Lot Number:	S2-V711005
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Vanadium
Starting Material:	Vanadium Pentoxide
Starting Material Lot#:	1782
Starting Material Purity:	99.9877%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10014 ± 30 µg/mL

Density: 1.104 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10017 ± 42 µg/mL**
ICP Assay NIST SRM 3165 Lot Number: 160906

Assay Method #2 **10013 ± 30 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000110	M	Eu	<	0.000110	O	Na		0.120000	M	Se	<	0.009400	M	Zn	0.009400
O	Al		0.120000	O	Fe		0.460000	M	Nb	<	0.001300	O	Si		0.270000	M	Zr	< 0.002900
M	As	<	0.000210	M	Ga	<	0.009300	M	Nd	<	0.000610	M	Sm	<	0.000110			
M	Au	<	0.004700	M	Gd	<	0.000110	M	Ni		0.012000	M	Sn		0.003900			
M	B		0.051000	M	Ge	<	0.000410	M	Os	<	0.000110	O	Sr		0.007100			
M	Ba		0.003600	M	Hf	<	0.000110	O	P	<	0.034000	M	Ta	<	0.000110			
O	Be	<	0.000560	M	Hg	<	0.000410	M	Pb		0.001400	M	Tb	<	0.000110			
M	Bi	<	0.000210	M	Ho	<	0.000110	M	Pd	<	0.000410	M	Te	<	0.000110			
O	Ca		0.730000	M	In	<	0.000110	M	Pr	<	0.000110	M	Th	<	0.000210			
M	Cd	<	0.000610	M	Ir	<	0.000110	M	Pt	<	0.000110	M	Ti		0.017000			
M	Ce	<	0.000610	M	K		0.052000	M	Rb	<	0.000310	M	Tl	<	0.000110			
M	Co	<	0.001300	M	La	<	0.000410	M	Re		0.001700	M	Tm	<	0.000110			
O	Cr		0.170000	M	Li	<	0.000810	M	Rh	<	0.000110	M	U	<	0.000410			
M	Cs		0.005600	M	Lu	<	0.000110	M	Ru	<	0.000110	s	V	<				
M	Cu	<	0.001300	M	Mg		0.053000	i	S	<		M	W		0.002000			
M	Dy	<	0.000110	M	Mn		0.007900	M	Sb		0.078000	M	Y	<	0.000110			
M	Er	<	0.000110	M	Mo		0.094000	M	Sc	<	0.000410	M	Yb	<	0.000110			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 50.94 +5 6 $H_2V_{10}O_{28}^{4-}$

Chemical Compatibility -Soluble in HCl, HNO_3, H_2SO_4, HF, H_3PO_4 and strong basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

V Containing Samples (Preparation and Solution) -Metal (Fusion with NaOH or KOH in Ni0 or Na_2CO_3 / KNO_3); Oxides (V_2O_3 - use HCl, V_2O_4 - use HCl or HNO_3, V_2O_5 - use concentrated acids); Ores (Na_2CO_3 / KNO_3 in Pt0 caution - nitrates attack Pto followed by water extraction of fuseate); Organic Matrices (Ash at 450 EC followed by dissolving according to V_2O_5 above) .

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 51 amu	4 ppt	N/A	34S16O1H, 35Cl16O, 38Ar13C, 36Ar15N, 36Ar14N1H, 37Cl14N,36S15N, 33S18O, 34S17O, 102Ru+2,02Pd+2
ICP-OES 290.882 nm	0.008 / 0.0008 µg/mL	1	Hf, Nb
ICP-OES 292.402 nm	0.006 / 0.001 µg/mL	1	Th
ICP-OES 309.311 nm	0.005 / 0.001 µg/mL	1	Mg, U, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

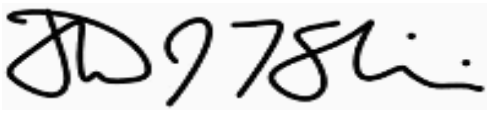
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAL10
Lot Number:	T2-AL716102
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Aluminum
Starting Material:	Aluminum Nitrate Nonahydrate
Starting Material Lot#:	2460
Starting Material Purity:	99.9938%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10049 ± 31 µg/mL

Density: 1.087 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10059 ± 40 µg/mL**
ICP Assay NIST SRM 3101a Lot Number: 140903

Assay Method #2 **10044 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10049 ± 35 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002100	M	Eu	<	0.002100	O	Na		0.352819	M	Se	<	0.005200	M	Zn	0.006018
s	Al	<		O	Fe		0.074714	M	Nb	<	0.000520	O	Si		0.017848	O	Zr	0.004358
M	As		0.008716	O	Ga		0.112072	M	Nd	<	0.000520	M	Sm	<	0.000520			
M	Au	<	0.008400	M	Gd	<	0.001100	O	Ni	<	0.006000	M	Sn		0.000747			
O	B	<	0.014000	M	Ge	<	0.005200	M	Os	<	0.000650	O	Sr		0.000518			
O	Ba		0.012867	M	Hf	<	0.004100	n	P	<		M	Ta	<	0.000520			
O	Be	<	0.000270	M	Hg	<	0.002000	M	Pb		0.002282	M	Tb	<	0.000520			
M	Bi		0.001930	M	Ho	<	0.000520	M	Pd	<	0.000520	M	Te	<	0.001100			
O	Ca		0.076790	M	In	<	0.002100	M	Pr	<	0.000520	M	Th	<	0.000520			
M	Cd	<	0.000520	M	Ir	<	0.000650	M	Pt	<	0.000520	O	Ti		0.001930			
M	Ce	<	0.001100	O	K		0.043583	M	Rb	<	0.000520	M	Tl	<	0.000520			
O	Co	<	0.005400	M	La	<	0.002100	M	Re	<	0.000520	M	Tm	<	0.000520			
O	Cr		0.006018	O	Li		0.000112	M	Rh	<	0.000520	M	U	<	0.000520			
M	Cs		0.000643	M	Lu	<	0.000520	M	Ru	<	0.002000	M	V		0.001286			
O	Cu	<	0.008300	O	Mg		0.068488	i	S	<		M	W	<	0.009800			
M	Dy	<	0.002100	O	Mn		0.000913	M	Sb	<	0.003100	M	Y	<	0.001100			
M	Er	<	0.000520	M	Mo		0.005396	O	Sc	<	0.000950	M	Yb	<	0.000520			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 26.98 +3 6 Al(H2O)6+3
Chemical Compatibility -Soluble in HCl, HNO3, v F and v 2SO4. Avoid neutral media. Soluble in strongly basic NaOH forming the Al(OH)4(H2O)21- species. Stable with most metals and inorganic anions. The phosphate is insoluble in water and only slightly soluble in acid.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.
Al Containing Samples (Preparation and Solution) -Metal (Best dissolved in HCl / HNO3); a- Al2O3 (Na2CO3 fusion in Pt0);
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 27 amu	30 ppt	N/A	12C15N, 13C14N, 1H12C14N, 11B16O, 54Cr2+, 54Fe2+
ICP-OES 167.078 nm	0.1/0.009 µg/mL	1	Fe
ICP-OES 394.401 nm	0.05/0.006 µg/mL	1	U, Ce
ICP-OES 396.152 nm	0.03/0.006 µg/mL	1	Mo, Zr, Ce

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 22, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 22, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

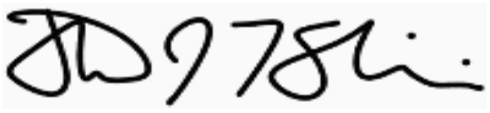
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGK10
Lot Number:	S2-K711973
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Potassium
Starting Material:	KNO3
Starting Material Lot#:	2313
Starting Material Purity:	99.9971%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9992 ± 30 µg/mL

Density: 1.024 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9987 ± 24 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

Assay Method #2 **10004 ± 84 µg/mL**
ICP Assay NIST SRM 3141a Lot Number: 140813

Assay Method #3 **10007 ± 45 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001400	M	Eu	<	0.000660	O	Na		0.246220	M	Se	<	0.007900	O	Zn		0.018056
O	Al		0.001592	O	Fe		0.005909	M	Nb	<	0.000660	O	Si		0.011490	O	Zr	<	0.001600
M	As	<	0.005300	M	Ga	<	0.000660	M	Nd	<	0.000660	M	Sm	<	0.000660				
M	Au	<	0.002000	M	Gd	<	0.000660	O	Ni	<	0.004900	M	Sn	<	0.000660				
O	B	<	0.005600	M	Ge	<	0.002000	M	Os	<	0.003300	O	Sr		0.000055				
O	Ba	<	0.000860	M	Hf	<	0.000660	O	P	<	0.032000	M	Ta	<	0.000660				
O	Be	<	0.000082	M	Hg	<	0.002000	M	Pb	<	0.002300	M	Tb	<	0.000660				
M	Bi	<	0.006600	M	Ho	<	0.000660	M	Pd	<	0.000660	M	Te	<	0.017000				
O	Ca		0.031187	M	In	<	0.000660	M	Pr	<	0.000660	M	Th	<	0.000660				
O	Cd	<	0.000450	M	Ir	<	0.000660	M	Pt	<	0.002700	M	Ti	<	0.000660				
M	Ce	<	0.000660	s	K	<		M	Rb		0.476026	M	Tl	<	0.000660				
O	Co	<	0.000780	M	La	<	0.000660	M	Re	<	0.000660	M	Tm	<	0.000660				
O	Cr		0.000541	O	Li	<	0.000084	M	Rh	<	0.000660	M	U	<	0.000660				
M	Cs	<	0.000660	M	Lu	<	0.000660	M	Ru	<	0.000660	O	V	<	0.001100				
M	Cu	<	0.002700	O	Mg		0.006237	O	S		0.027905	M	W	<	0.000660				
M	Dy	<	0.000660	O	Mn		0.000476	M	Sb	<	0.000660	M	Y	<	0.000660				
M	Er	<	0.000660	M	Mo	<	0.000660	O	Sc	<	0.000340	O	Yb	<	0.000270				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 39.10 +1 (6) K+(aq)
Chemical Compatibility -Soluble in HCl, HNO3, H2SO4 and HF aqueous matrices. Avoid use of HClO4 due to insolubility of the perchlorate. Stable with all metals and inorganic anions except ClO4-.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.
K Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Sodium carbonate fusion in Pt0 followed by HCl dissolution-blank levels of K in sodium carbonate critical); Organic Matrices (Sulfuric/peroxide digestion)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 39 amu	10 ppt	n/a	38ArH, 23Na16O, 78Se
ICP-OES 404.721 nm	1.1 / 0.05 µg/mL	1	U, Ce
ICP-OES 766.490 nm	0.4 / 0.001 µg/mL	1	2nd order radiation from R.E.s on some optical designs
ICP-OES 771.531 nm	1.0 / 0.03 µg/mL	1	2nd order radiation from R.E.s on some optical designs

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 10, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 10, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

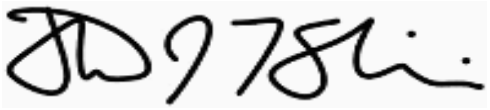
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMG10
Lot Number:	S2-MG704239
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Magnesium
Starting Material:	Magnesium Metal
Starting Material Lot#:	2168
Starting Material Purity:	99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10053 ± 30 µg/mL

Density: 1.053 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10022 ± 62 µg/mL**
ICP Assay NIST SRM 3131a Lot Number: 140110

Assay Method #2 **10078 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10033 ± 26 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.002106	M	Eu	<	0.000910	O	Na		0.071075	O	Se	<	0.048000	O	Zn		0.003299
M	Al		0.003553	M	Fe		0.002538	M	Nb	<	0.000460	O	Si	<	0.032000	O	Zr	<	0.002700
M	As	<	0.001400	M	Ga	<	0.000460	M	Nd	<	0.000910	M	Sm	<	0.000460				
M	Au	<	0.001400	M	Gd	<	0.000460	O	Ni	<	0.001600	M	Sn	<	0.002300				
O	B		0.006853	M	Ge	<	0.001400	M	Os	<	0.000460	O	Sr		0.000279				
O	Ba		0.000964	M	Hf	<	0.000460	O	P		0.015230	M	Ta	<	0.000460				
O	Be	<	0.000120	M	Hg	<	0.000460	M	Pb	<	0.000460	M	Tb	<	0.000460				
M	Bi	<	0.000460	M	Ho	<	0.000460	M	Pd	<	0.003200	M	Te	<	0.007300				
O	Ca		0.053306	M	In	<	0.000460	M	Pr	<	0.000460	M	Th	<	0.000460				
O	Cd	<	0.000360	M	Ir	<	0.000460	M	Pt	<	0.001900	O	Ti	<	0.001700				
M	Ce	<	0.002300	M	K		0.048229	M	Rb		0.002411	M	Tl		0.003046				
M	Co	<	0.000910	M	La	<	0.002800	M	Re	<	0.000460	M	Tm	<	0.000460				
M	Cr	<	0.002300	O	Li		0.027922	M	Rh	<	0.000460	M	U	<	0.000460				
M	Cs		0.001040	M	Lu	<	0.000460	M	Ru	<	0.000460	M	V	<	0.000460				
O	Cu	<	0.003000	s	Mg	<		O	S	<	0.190000	M	W	<	0.000460				
M	Dy	<	0.000460	O	Mn		0.015230	M	Sb		0.020814	O	Y	<	0.000720				
M	Er	<	0.000460	M	Mo	<	0.000910	O	Sc	<	0.000480	M	Yb	<	0.000460				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 24.31 +2 6 Mg(H2O)6+2

Chemical Compatibility -Soluble in HCl, HNO3, and H2SO4 avoid HF, H3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicates, carbonates, hydroxides, oxides, and tungstates in neutral and slightly acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO3 / LDPE container.

Mg Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO3); Oxide (Readily soluble in above compatible aqueous acidic solutions); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric / peroxide digestion or nitric / sulfuric / perchloric acid decomposition, or dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 24 amu	42 ppt	n/a	7Li17O, 48Ti+2 , 48Ca+2
ICP-OES 279.553 nm	0.0002 / 0.00003 µg/mL	1	Th
ICP-OES 280.270 nm	0.0003 / 0.00005 µg/mL	1	U, V
ICP-OES 285.213 nm	0.002 / 0.00003 µg/mL	1	U, Hf, Cr, Zr

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 23, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 23, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCA10
Lot Number:	T2-CA716103
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Calcium
Starting Material:	CaCO3
Starting Material Lot#:	2472
Starting Material Purity:	99.9950%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10005 ± 30 µg/mL

Density: 1.039 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10005 ± 45 µg/mL**
ICP Assay NIST SRM 3109a Lot Number: 130213

Assay Method #2 **10005 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10005 ± 31 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001200	M	Eu	<	0.001200	O	Na		0.006112	M	Se	<	0.024000	M	Zn		0.005362
M	Al		0.065419	O	Fe		0.009115	M	Nb	<	0.001200	O	Si		0.139417	O	Zr	<	0.006700
O	As	<	0.013000	M	Ga	<	0.015000	M	Nd	<	0.020000	M	Sm	<	0.001200				
M	Au	<	0.017000	M	Gd	<	0.004800	O	Ni		0.000793	M	Sn	<	0.003600				
O	B		0.001179	M	Ge	<	0.003600	M	Os	<	0.001200	M	Sr		0.081505				
O	Ba		0.002788	M	Hf	<	0.001200	O	P	<	0.041000	M	Ta	<	0.001200				
O	Be	<	0.000410	M	Hg	<	0.004800	M	Pb		0.001608	M	Tb	<	0.001200				
M	Bi		0.001608	M	Ho	<	0.001200	M	Pd	<	0.001200	M	Te	<	0.003600				
s	Ca	<		M	In	<	0.001200	M	Pr		0.000257	M	Th	<	0.001200				
O	Cd	<	0.001300	M	Ir	<	0.001200	M	Pt	<	0.003600	O	Ti	<	0.001900				
M	Ce		0.001029	O	K		0.009759	M	Rb	<	0.001200	M	Tl	<	0.001200				
O	Co		0.000418	M	La		0.001823	M	Re	<	0.001200	M	Tm	<	0.001200				
O	Cr		0.003324	O	Li	<	0.007300	M	Rh	<	0.001200	M	U		0.002144				
M	Cs		0.007399	M	Lu		0.000128	M	Ru	<	0.001200	M	V		0.001286				
O	Cu	<	0.011000	M	Mg		1.286934	O	S		0.055767	O	W	<	0.024000				
M	Dy	<	0.002400	O	Mn		0.004611	M	Sb	<	0.009600	O	Y		0.000536				
M	Er	<	0.002400	M	Mo		0.003539	O	Sc	<	0.001400	M	Yb	<	0.001200				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 40.08 +2 6 Ca(H2O)6+2
Chemical Compatibility - Soluble in HCl and HNO3. Avoid H2SO4, vF, v3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, and tungstate in neutral aqueous media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO3 / LDPE container.
Ca Containing Samples)Preparation and Solution) -Metal (best dissolved in diluted HNO3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (dry ash and dissolution in dilute HCl. Do not heat when dissolving to avoid precipitation of SiO2). The oxide, hydroxide, carbonate, phosphate, and fluoride of calcium are soluble in % levels of HCl or HNO3. The sulfates (gypsum, anhydrite, etc.), certain silicates, and complex compounds require fusion with Na2CO3 followed by HCl / water dissolution. Note that contamination is a very real problem when analyzing for trace levels.
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 44 amu	1200 ppt	n/a	16O212C, 28Si16O, 88Sr
ICP-OES 393.366 nm	0.0002 / 0.00004 µg/mL	1	U, Ce
ICP-OES 396.847 nm	0.0005 / 0.00006 µg/mL	1	Th
ICP-OES 422.673 nm	0.01 / 0.001 µg/mL	1	Ge

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 14, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 14, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

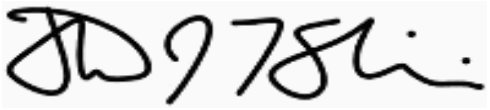
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGNA10
Lot Number:	T2-NA717221
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Sodium
Starting Material:	Na2CO3
Starting Material Lot#:	2358 and 2453
Starting Material Purity:	99.9977%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9977 ± 30 µg/mL

Density: 1.033 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9974 ± 18 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

Assay Method #2 **9977 ± 34 µg/mL**
ICP Assay NIST SRM 3152a Lot Number: 200413

Assay Method #3 **9987 ± 31 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000930	M	Eu	<	0.000930	s	Na	<		M	Se	<	0.003800	O	Zn		0.000138
M	Al		0.004409	O	Fe		0.002393	M	Nb	<	0.000930	O	Si		0.056696	O	Zr	<	0.003200
O	As	<	0.023000	M	Ga	<	0.000930	M	Nd	<	0.000930	M	Sm	<	0.000930				
O	Au	<	0.004100	M	Gd	<	0.000930	O	Ni	<	0.003000	M	Sn	<	0.002800				
O	B		0.001385	M	Ge	<	0.004700	M	Os	<	0.000930	O	Sr		0.000251				
M	Ba		0.004031	M	Hf	<	0.000930	O	P		0.010205	M	Ta	<	0.000930				
O	Be	<	0.000130	M	Hg	<	0.000930	M	Pb	<	0.000930	M	Tb	<	0.000930				
M	Bi	<	0.000930	M	Ho	<	0.000930	M	Pd	<	0.000930	M	Te	<	0.001900				
O	Ca		0.176388	M	In	<	0.000930	M	Pr	<	0.000930	M	Th		0.000352				
O	Cd	<	0.000860	M	Ir	<	0.000930	M	Pt	<	0.000930	O	Ti		0.000592				
M	Ce	<	0.001900	O	K		0.302380	M	Rb	<	0.000930	M	Tl	<	0.000930				
O	Co	<	0.001800	O	La	<	0.002100	M	Re	<	0.000930	M	Tm	<	0.000930				
M	Cr	<	0.002800	O	Li		0.000031	M	Rh	<	0.000930	M	U	<	0.000930				
M	Cs	<	0.000930	M	Lu	<	0.000930	M	Ru	<	0.001900	O	V	<	0.001600				
O	Cu	<	0.003900	O	Mg		0.026458	O	S		0.040317	O	W	<	0.028000				
M	Dy	<	0.000930	O	Mn	<	0.000740	M	Sb	<	0.000930	O	Y	<	0.000860				
M	Er	<	0.000930	O	Mo	<	0.003600	O	Sc	<	0.000610	O	Yb	<	0.000250				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 22.99 +1 (6) Na+(aq) largely ionic in nature

Chemical Compatibility -Soluble in HCl, HNO3, H2SO4 and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

Na Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Lithium carbonate fusion in graphite crucible followed by HCl dissolution - blank levels of Na in lithium carbonate critical); Organic Matrices (Sulfuric / peroxide digestion or nitric/sulfuric/perchloric acid decomposition).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 23 amu	310 ppt	n/a	46Ti+2 , 46Ca+2
ICP-OES 330.237 nm	2.0 / 0.09 µg/mL	1	Pd, Zn
ICP-OES 588.995 nm	0.03 / 0.006 µg/mL	1	2nd order radiation from R.E.s on some optical designs
ICP-OES 589.595 nm	0.07 / 0.00009 µg/mL	1	2nd order radiation from R.E.s on some optical designs

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 20, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 20, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

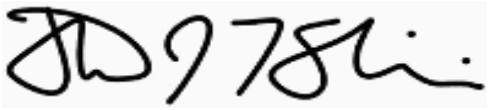
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGU1
Lot Number:	S2-U707914
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Uranium
Starting Material:	Uranyl Nitrate Hexahydrate
Starting Material Lot#:	P2-2322
Starting Material Purity:	99.9997%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 999 ± 5 µg/mL

Density: 1.010 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **998 ± 5 µg/mL**
ICP Assay NIST SRM 3164 Lot Number: 080521

Assay Method #2 **1001 ± 6 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	< 0.000270	M	Eu	< 0.000270	M	Na	< 0.011000	M	Se	< 0.009300	M	Zn	0.002358			
M	Al	< 0.011000	M	Fe	0.003222	M	Nb	< 0.000270	M	Si	< 0.160000	M	Zr	< 0.001100			
M	As	< 0.002400	M	Ga	< 0.000270	M	Nd	< 0.000270	M	Sm	< 0.000270						
M	Au	< 0.000270	M	Gd	< 0.000270	M	Ni	< 0.020000	M	Sn	< 0.011000						
M	B	< 0.000270	M	Ge	< 0.000800	M	Os	< 0.001900	M	Sr	< 0.000270						
M	Ba	< 0.003800	M	Hf	< 0.000270	i	P	<	M	Ta	< 0.000270						
M	Be	< 0.000270	M	Hg	< 0.000540	M	Pb	< 0.002200	M	Tb	< 0.000270						
M	Bi	< 0.000270	M	Ho	< 0.000270	M	Pd	< 0.000540	M	Te	< 0.003800						
M	Ca	< 0.140000	M	In	< 0.000270	M	Pr	< 0.000270	M	Th	0.000129						
M	Cd	< 0.000270	M	Ir	< 0.000270	M	Pt	< 0.000270	M	Ti	< 0.002700						
M	Ce	< 0.000540	O	K	< 0.250000	M	Rb	< 0.000800	M	Tl	< 0.000270						
M	Co	< 0.000800	M	La	0.000117	M	Re	< 0.064000	M	Tm	< 0.000270						
M	Cr	0.000943	M	Li	< 0.003000	M	Rh	< 0.000270	s	U	<						
M	Cs	0.000106	M	Lu	< 0.000270	M	Ru	< 0.000540	M	V	< 0.000540						
M	Cu	< 0.001100	M	Mg	< 0.003000	i	S	<	M	W	< 0.000540						
M	Dy	< 0.000270	M	Mn	< 0.006900	M	Sb	< 0.000270	M	Y	< 0.000270						
M	Er	< 0.000270	M	Mo	< 0.006400	M	Sc	< 0.000540	M	Yb	< 0.000270						

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 238.03 +6 8 UO22+(uranyl)
Chemical Compatibility - Soluble in HCl and HNO3. Avoid H3PO4. H2SO4 and HF matrices should not be a problem depending upon [U]. Although the UO22+ ion is distinctly basic, any U+4 will precipitate in basic media. UO22+salts are generally soluble in water and UO22+ is stable with most metals and inorganic anions. The uranyl phosphate is insoluble in water. UF4 and UF6 are water soluble.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.
U Containing Samples (Preparation and Solution) -Metal (Dissolves rapidly in HCl and HNO3); Oxide (Soluble in HNO3); Ores (Digest for 1-2 hours with 1 gram of ore to 30 mL 1:1 HNO3. Silica insolubles are removed by filtration after bringing the sample to fumes with conc. H2SO4.)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 238 amu	2 ppt	N/A	206Pb16O2
ICP-OES 263.553 nm	0.3 / 0.01 µg/mL	1	Ce, Ir, Th, Rh, W, Zr, Ta, Ti, V, Hf, Fe, Re, Ru
ICP-OES 367.007 nm	0.3 / 0.02 µg/mL	1	Th, Ce
ICP-OES 385.958 nm	0.3 / 0.01 µg/mL	1	Th, Fe

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	AR-ICVMS-2
Lot Number:	T2-MEB719895
Matrix:	3% (v/v) HNO3 tr. HF
Value / Analyte(s):	2.5 µg/mL ea: Molybdenum, Antimony

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	**2.499 ± 0.015 µg/mL**	**Molybdenum, Mo**	**2.500 ± 0.017 µg/mL**

Density: 1.014 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Mo	ICP Assay	3134	130418
Mo	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
Sb	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 06, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 06, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

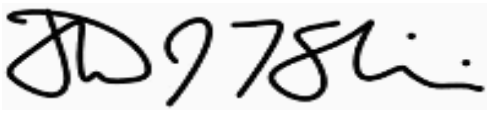
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	AR-ICVMS-3
Lot Number:	T2-MEB719896
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	250 µg/mL ea:

Aluminum, Calcium,
Iron, Potassium,
Magnesium, Sodium,

4 µg/mL ea:
Selenium,

2.5 µg/mL ea:

Thorium,	Thallium,
Uranium,	Vanadium,
Zinc,	Manganese,
Cadmium,	Cobalt,
Chromium,	Copper,
Arsenic,	Barium,
Beryllium,	Nickel,
Lead,	Silver

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	250.0 ± 0.9 µg/mL	Arsenic, As	2.500 ± 0.018 µg/mL
Barium, Ba	2.501 ± 0.013 µg/mL	Beryllium, Be	2.501 ± 0.015 µg/mL
Cadmium, Cd	2.501 ± 0.013 µg/mL	Calcium, Ca	250.0 ± 1.3 µg/mL
Chromium, Cr	2.500 ± 0.015 µg/mL	Cobalt, Co	2.500 ± 0.014 µg/mL
Copper, Cu	2.500 ± 0.014 µg/mL	Iron, Fe	250.0 ± 1.0 µg/mL
Lead, Pb	2.500 ± 0.013 µg/mL	Magnesium, Mg	250.0 ± 1.3 µg/mL
Manganese, Mn	2.500 ± 0.014 µg/mL	Nickel, Ni	2.500 ± 0.014 µg/mL
Potassium, K	250.0 ± 1.2 µg/mL	Selenium, Se	4.002 ± 0.024 µg/mL
Silver, Ag	2.501 ± 0.017 µg/mL	Sodium, Na	250.0 ± 1.2 µg/mL
Thallium, Tl	2.500 ± 0.017 µg/mL	Thorium, Th	2.499 ± 0.013 µg/mL
Uranium, U	2.501 ± 0.015 µg/mL	Vanadium, V	2.500 ± 0.014 µg/mL
Zinc, Zn	2.500 ± 0.014 µg/mL		

Density: 1.042 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
Ba	ICP Assay	3104a	140909
Ba	Calculated		See Sec. 4.2
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
Cr	ICP Assay	3112a	170630
Cr	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Cu	Calculated		See Sec. 4.2
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Mn	Calculated		See Sec. 4.2
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Th	EDTA	928	928
Th	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2
U	ICP Assay	3164	080521
U	Calculated		See Sec. 4.2

V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928
Zn	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 06, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 06, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

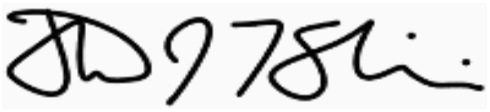
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
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F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	AR-6020ICS-0A10
Lot Number:	T2-MEB719898
Matrix:	1.4% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Chloride,
	200 µg/mL ea: Carbon,
	100 µg/mL ea: Calcium, Aluminum, Iron, Potassium, Magnesium, Sodium, Phosphorus, Sulfur,
	2 µg/mL ea: Titanium, Molybdenum

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**100.0 ± 0.4 µg/mL**	**Calcium, Ca**	**100.0 ± 0.5 µg/mL**
Carbon, C	**200.1 ± 0.5 µg/mL**	**Chloride, Cl**	**1 000 ± 5 µg/mL**
Iron, Fe	**100.0 ± 0.5 µg/mL**	**Magnesium, Mg**	**100.0 ± 0.5 µg/mL**
Molybdenum, Mo	**2.001 ± 0.014 µg/mL**	**Phosphorus, P**	**100.0 ± 0.6 µg/mL**
Potassium, K	**100.0 ± 0.5 µg/mL**	**Sodium, Na**	**100.0 ± 0.5 µg/mL**
Sulfur, S	**100.0 ± 0.5 µg/mL**	**Titanium, Ti**	**2.001 ± 0.015 µg/mL**

Density: 1.009 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
C	Acidimetric	84L	84L
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cl	Acidimetric	84L	84L
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mo	ICP Assay	3134	130418
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
P	ICP Assay	3139a	060717
P	Acidimetric	84L	84L
S	Acidimetric	84L	84L
S	ICP Assay	traceable to 3154	P2-S680745
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 07, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 07, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

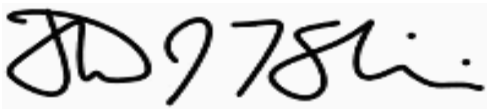
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SS823

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-01 C	SDG:	22L0136
Sampled:	12/06/22 09:41	Prepared:	12/12/22 10:30	File ID:	CubeData_12272022@1337-227
% Solids:	48.74	Preparation:	Plumb 1981	Analyzed:	12/14/22 19:26
Batch:	BKL0268	Sequence:	SKL0152	Initial/Final:	0.1835 g Wet / 0.1835 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.09	1	0.02	0.02	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SS822

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-02 C	SDG:	22L0136
Sampled:	12/06/22 10:10	Prepared:	12/12/22 10:30	File ID:	CubeData_12272022@1337-233
% Solids:	85.22	Preparation:	Plumb 1981	Analyzed:	12/14/22 19:57
Batch:	BKL0268	Sequence:	SKL0152	Initial/Final:	0.5404 g Wet / 0.5404 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.15	1	0.02	0.02	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SS821

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-03 C	SDG:	22L0136
Sampled:	12/06/22 10:23	Prepared:	12/12/22 10:30	File ID:	CubeData_12272022@1337-241
% Solids:	88.04	Preparation:	Plumb 1981	Analyzed:	12/14/22 20:27
Batch:	BKL0268	Sequence:	SKL0152	Initial/Final:	0.5909 g Wet / 0.5909 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.07	1	0.02	0.02	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SS820

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-04 C	SDG:	22L0136
Sampled:	12/06/22 10:49	Prepared:	12/12/22 10:30	File ID:	CubeData_12272022@1337-248
% Solids:	66.27	Preparation:	Plumb 1981	Analyzed:	12/14/22 20:58
Batch:	BKL0268	Sequence:	SKL0152	Initial/Final:	0.2746 g Wet / 0.2746 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.27	1	0.02	0.02	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SS819

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-05 C	SDG:	22L0136
Sampled:	12/06/22 11:11	Prepared:	12/12/22 10:30	File ID:	CubeData_12272022@1337-254
% Solids:	88.47	Preparation:	Plumb 1981	Analyzed:	12/14/22 21:28
Batch:	BKL0268	Sequence:	SKL0152	Initial/Final:	0.5432 g Wet / 0.5432 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.06	1	0.02	0.02	

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Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SS818

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-06 C	SDG:	22L0136
Sampled:	12/06/22 11:24	Prepared:	12/12/22 10:30	File ID:	CubeData_12272022@1337-260
% Solids:	57.79	Preparation:	Plumb 1981	Analyzed:	12/14/22 21:59
Batch:	BKL0268	Sequence:	SKL0152	Initial/Final:	0.2252 g Wet / 0.2252 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.28	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SS811

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-07 C	SDG:	22L0136
Sampled:	12/06/22 12:05	Prepared:	12/12/22 10:30	File ID:	CubeData_12272022@1337-266
% Solids:	43.60	Preparation:	Plumb 1981	Analyzed:	12/14/22 22:29
Batch:	BKL0268	Sequence:	SKL0152	Initial/Final:	0.5358 g Wet / 0.5358 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.80	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SS786

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-08 C	SDG:	22L0136
Sampled:	12/06/22 12:26	Prepared:	12/13/22 08:20	File ID:	CubeData_12272022@1337-312
% Solids:	54.97	Preparation:	Plumb 1981	Analyzed:	12/15/22 02:02
Batch:	BKL0299	Sequence:	SKL0152	Initial/Final:	0.5068 g Wet / 0.5068 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.83	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SS766

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-09 C	SDG:	22L0136
Sampled:	12/06/22 13:16	Prepared:	12/13/22 08:20	File ID:	CubeData_12272022@1337-333
% Solids:	70.49	Preparation:	Plumb 1981	Analyzed:	12/15/22 03:34
Batch:	BKL0299	Sequence:	SKL0152	Initial/Final:	0.5066 g Wet / 0.5066 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.44	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SS771

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-10 C	SDG:	22L0136
Sampled:	12/06/22 13:35	Prepared:	12/13/22 08:20	File ID:	CubeData_12272022@1337-340
% Solids:	40.02	Preparation:	Plumb 1981	Analyzed:	12/15/22 04:04
Batch:	BKL0299	Sequence:	SKL0152	Initial/Final:	0.2229 g Wet / 0.2229 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.75	1	0.02	0.02	

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Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SS771-FD

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-11 C	SDG:	22L0136
Sampled:	12/06/22 13:35	Prepared:	12/13/22 08:20	File ID:	CubeData_12272022@1337-345
% Solids:	41.21	Preparation:	Plumb 1981	Analyzed:	12/15/22 04:34
Batch:	BKL0299	Sequence:	SKL0152	Initial/Final:	0.2466 g Wet / 0.2466 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	3.08	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SS772

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0136-12 C	SDG:	22L0136
Sampled:	12/06/22 13:57	Prepared:	12/13/22 08:20	File ID:	CubeData_12272022@1337-350
% Solids:	37.28	Preparation:	Plumb 1981	Analyzed:	12/15/22 05:05
Batch:	BKL0299	Sequence:	SKL0152	Initial/Final:	0.158 g Wet / 0.158 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.82	1	0.02	0.02	

PREPARATION BATCH SUMMARY

EPA 9060A m

Laboratory: Analytical Resources, LLC SDG: 22L0136

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Batch: BKL0268 Batch Matrix: Solid Preparation: Plumb 1981

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SS823	22L0136-01	eData_12272022@1337-	12/12/22 10:30	
LDW22-SS822	22L0136-02	eData_12272022@1337-	12/12/22 10:30	
LDW22-SS821	22L0136-03	eData_12272022@1337-	12/12/22 10:30	
LDW22-SS820	22L0136-04	eData_12272022@1337-	12/12/22 10:30	
LDW22-SS819	22L0136-05	eData_12272022@1337-	12/12/22 10:30	
LDW22-SS818	22L0136-06	eData_12272022@1337-	12/12/22 10:30	
LDW22-SS811	22L0136-07	eData_12272022@1337-	12/12/22 10:30	
Blank	BKL0268-BLK1	eData_12272022@1337-	12/12/22 10:30	
LCS	BKL0268-BS1	eData_12272022@1337-	12/12/22 10:30	
MRL Check	BKL0268-MRL1	eData_12272022@1337-	12/12/22 10:30	
Reference	BKL0268-SRM1	eData_12272022@1337-	12/12/22 10:30	

PREPARATION BATCH SUMMARY

EPA 9060A m

Laboratory: Analytical Resources, LLC SDG: 22L0136

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Batch: BKL0299 Batch Matrix: Solid Preparation: Plumb 1981

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SS786	22L0136-08	eData_12272022@1337-	12/13/22 08:20	
LDW22-SS766	22L0136-09	eData_12272022@1337-	12/13/22 08:20	
LDW22-SS771	22L0136-10	eData_12272022@1337-	12/13/22 08:20	
LDW22-SS771-FD	22L0136-11	eData_12272022@1337-	12/13/22 08:20	
LDW22-SS772	22L0136-12	eData_12272022@1337-	12/13/22 08:20	
Blank	BKL0299-BLK1	eData_12272022@1337-	12/13/22 08:20	
LCS	BKL0299-BS1	eData_12272022@1337-	12/13/22 08:20	
LDW22-SS786	BKL0299-DUP1	eData_12272022@1337-	12/13/22 08:20	
MRL Check	BKL0299-MRL1	eData_12272022@1337-	12/13/22 08:20	
LDW22-SS786	BKL0299-MS1	eData_12272022@1337-	12/13/22 08:20	
Reference	BKL0299-SRM1	eData_12272022@1337-	12/13/22 08:20	

Form I

METHOD BLANK DATA SHEET

EPA 9060A m

TotalAnalytes

Blank

Laboratory: Analytical Resources, LLC | SDG: 22L0136

Client: Anchor QEA, LLC | Project: AOC4 UR Phase 3

Batch: BKL0268 | Laboratory ID: BKL0268-BLK1 | Prepared: 12/12/22 10:30

Matrix: Solid | Preparation: Plumb 1981 | Analyzed: 12/14/22 06:48

Sequence: SKL0152 | Calibration: FD00070 | Instrument: TOC Cube

CAS NO.	Analyte	Concentration (% wet)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	ND	1	0.02	0.02	U

Form I

METHOD BLANK DATA SHEET

EPA 9060A m

TotalAnalytes

Blank

Laboratory: Analytical Resources, LLC | SDG: 22L0136

Client: Anchor QEA, LLC | Project: AOC4 UR Phase 3

Batch: BKL0299 | Laboratory ID: BKL0299-BLK1 | Prepared: 12/13/22 08:20

Matrix: Solid | Preparation: Plumb 1981 | Analyzed: 12/15/22 00:31

Sequence: SKL0152 | Calibration: FD00070 | Instrument: TOC Cube

CAS NO.	Analyte	Concentration (% wet)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	ND	1	0.02	0.02	U

LCS / LCS DUPLICATE RECOVERY

EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/14/22 07:18
Batch:	BKL0268	Laboratory ID:	BKL0268-BS1
Preparation:	Plumb 1981	Sequence Name:	LCS
Initial/Final:	0.0196 g / 0.0196 g		

COMPOUND	SPIKE ADDED (% wet)	LCS CONCENTRATION (% wet)	Q	LCS % REC. #	QC LIMITS REC.
Total Organic Carbon	44.4	44.0		99.1	80 - 120

* Indicates values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/15/22 01:01
Batch:	BKL0299	Laboratory ID:	BKL0299-BS1
Preparation:	Plumb 1981	Sequence Name:	LCS
Initial/Final:	0.0215 g / 0.0215 g		

COMPOUND	SPIKE ADDED (% wet)	LCS CONCENTRATION (% wet)	Q	LCS % REC. #	QC LIMITS REC.
Total Organic Carbon	44.4	45.1		101	80 - 120

* Indicates values outside of QC limits

DUPLICATES

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0299-DUP1
Batch: BKL0299
Lab Source ID: 22L0136-08
Preparation: Plumb 1981
Initial/Final: 0.521 g / 0.521 g
Source Sample Name: LDW22-SS786
% Solids: 54.97

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Organic Carbon	20	0.83	0.85	2.39	

*: Values outside of QC limits
L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD

MS / MS DUPLICATE RECOVERY
EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/15/22 03:03
Batch:	BKL0299	Laboratory ID:	BKL0299-MS1
Preparation:	Plumb 1981	Sequence Name:	Matrix Spike
Initial/Final:	0.5019 g / 0.5019 g	Source Sample:	LDW22-SS786

COMPOUND	SPIKE ADDED (% dry)	SAMPLE CONCENTRATION (% dry)	Q	MS CONCENTRATION (% dry)	Q	MS % REC. #	QC LIMITS REC.
Total Organic Carbon	1.72	0.83		2.49		96.6	75 - 125

* Values outside of QC limits

Analytical Resources, LLC
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ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKD0371	Instrument:	TOC Cube
		Calibration:	FD00070

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Cal Standard	SKD0371-CAL1	CubeData_04272022@1136-001	NA	04/26/22 12:30
Cal Standard	SKD0371-CAL2	CubeData_04272022@1136-002	NA	04/26/22 13:00
Cal Standard	SKD0371-CAL3	CubeData_04272022@1136-003	NA	04/26/22 13:30
Cal Standard	SKD0371-CAL4	CubeData_04272022@1136-004	NA	04/26/22 14:00
Cal Standard	SKD0371-CAL5	CubeData_04272022@1136-005	NA	04/26/22 14:30
Cal Standard	SKD0371-CAL6	CubeData_04272022@1136-006	NA	04/26/22 15:00
Cal Standard	SKD0371-CAL7	CubeData_04272022@1136-007	NA	04/26/22 15:30
Cal Standard	SKD0371-CAL8	CubeData_04272022@1136-008	NA	04/26/22 16:00
Cal Standard	SKD0371-CAL9	CubeData_04272022@1136-009	NA	04/26/22 16:30
Cal Standard	SKD0371-CALA	CubeData_04272022@1136-010	NA	04/26/22 17:00
Cal Standard	SKD0371-CALB	CubeData_04272022@1136-011	NA	04/26/22 17:30
Cal Standard	SKD0371-CALC	CubeData_04272022@1136-012	NA	04/26/22 18:00
Cal Standard	SKD0371-CALD	CubeData_04272022@1136-013	NA	04/26/22 18:30
Cal Standard	SKD0371-CALE	CubeData_04272022@1136-014	NA	04/26/22 19:00
Cal Standard	SKD0371-CALF	CubeData_04272022@1136-015	NA	04/26/22 19:31
Cal Standard	SKD0371-CALG	CubeData_04272022@1136-016	NA	04/26/22 20:01
Cal Standard	SKD0371-CALH	CubeData_04272022@1136-017	NA	04/26/22 20:31
Cal Standard	SKD0371-CALI	CubeData_04272022@1136-018	NA	04/26/22 21:01
Cal Standard	SKD0371-CALJ	CubeData_04272022@1136-019	NA	04/26/22 21:31
Cal Standard	SKD0371-CALK	CubeData_04272022@1136-020	NA	04/26/22 22:01
Initial Cal Check	SKD0371-ICV1	CubeData_04272022@1136-027	NA	04/27/22 02:03
Initial Cal Blank	SKD0371-ICB1	CubeData_04272022@1136-028	NA	04/27/22 02:33
Cal Standard	SKD0371-CALL	CubeData_04272022@1136-021	NA	04/27/22 11:08
Cal Standard	SKD0371-CALM	CubeData_04272022@1136-022	NA	04/27/22 11:08
Cal Standard	SKD0371-CALN	CubeData_04272022@1136-023	NA	04/27/22 11:09
Cal Standard	SKD0371-CALO	CubeData_04272022@1136-024	NA	04/27/22 11:09

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0152	Instrument:	TOC Cube
		Calibration:	FD00070

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Initial Cal Check	SKL0152-ICV1	CubeData_12272022@1337-039	NA	12/12/22 10:45
Initial Cal Blank	SKL0152-ICB1	CubeData_12272022@1337-051	NA	12/12/22 11:15
Calibration Check	SKL0152-CCV1	CubeData_12272022@1337-156	NA	12/12/22 16:48
Calibration Blank	SKL0152-CCB1	CubeData_12272022@1337-162	NA	12/12/22 17:19
Calibration Check	SKL0152-CCV2	CubeData_12272022@1337-234	NA	12/12/22 22:53
Calibration Blank	SKL0152-CCB2	CubeData_12272022@1337-240	NA	12/12/22 23:23
Calibration Check	SKL0152-CCV3	CubeData_12272022@1337-313	NA	12/13/22 04:57
Calibration Blank	SKL0152-CCB3	CubeData_12272022@1337-318	NA	12/13/22 05:28
Calibration Check	SKL0152-CCV4	CubeData_12272022@1337-384	NA	12/13/22 11:03
Calibration Blank	SKL0152-CCB4	CubeData_12272022@1337-388	NA	12/13/22 11:33
Calibration Check	SKL0152-CCV5	CubeData_12272022@1337-457	NA	12/13/22 17:07
Calibration Blank	SKL0152-CCB5	CubeData_12272022@1337-461	NA	12/13/22 17:37
Calibration Check	SKL0152-CCV6	CubeData_12272022@1337-530	NA	12/13/22 23:11
Calibration Blank	SKL0152-CCB6	CubeData_12272022@1337-539	NA	12/13/22 23:42
Calibration Check	SKL0152-CCV7	CubeData_12272022@1337-610	NA	12/14/22 05:17
Calibration Blank	SKL0152-CCB7	CubeData_12272022@1337-616	NA	12/14/22 05:47
MRL Check	BKL0268-MRL1	CubeData_12272022@1337-007	Solid	12/14/22 06:17
Blank	BKL0268-BLK1	CubeData_12272022@1337-018	Solid	12/14/22 06:48
LCS	BKL0268-BS1	CubeData_12272022@1337-030	Solid	12/14/22 07:18
Reference	BKL0268-SRM1	CubeData_12272022@1337-040	Solid	12/14/22 07:48
Calibration Check	SKL0152-CCV8	CubeData_12272022@1337-113	NA	12/14/22 11:20
Calibration Blank	SKL0152-CCB8	CubeData_12272022@1337-126	NA	12/14/22 11:50
Calibration Check	SKL0152-CCV9	CubeData_12272022@1337-201	NA	12/14/22 17:24
Calibration Blank	SKL0152-CCB9	CubeData_12272022@1337-208	NA	12/14/22 17:55
LDW22-SS823	22L0136-01	CubeData_12272022@1337-227	Solid	12/14/22 19:26
LDW22-SS822	22L0136-02	CubeData_12272022@1337-233	Solid	12/14/22 19:57
LDW22-SS821	22L0136-03	CubeData_12272022@1337-241	Solid	12/14/22 20:27
LDW22-SS820	22L0136-04	CubeData_12272022@1337-248	Solid	12/14/22 20:58
LDW22-SS819	22L0136-05	CubeData_12272022@1337-254	Solid	12/14/22 21:28

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

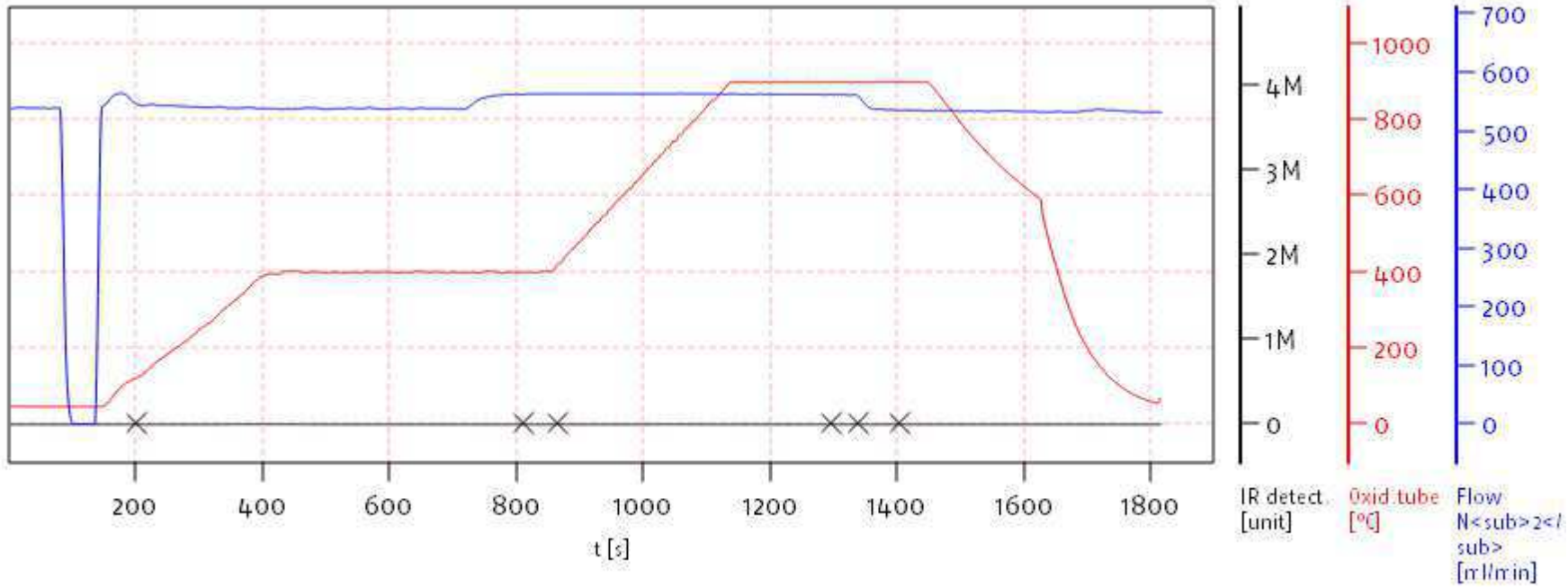
Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SKL0152

SDG: 22L0136
Project: AOC4 UR Phase 3
Instrument: TOC Cube
Calibration: FD00070

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
LDW22-SS818	22L0136-06	CubeData_12272022@1337-260	Solid	12/14/22 21:59
LDW22-SS811	22L0136-07	CubeData_12272022@1337-266	Solid	12/14/22 22:29
MRL Check	BKL0299-MRL1	CubeData_12272022@1337-272	Solid	12/14/22 23:00
Calibration Check	SKL0152-CCVA	CubeData_12272022@1337-280	NA	12/14/22 23:30
Calibration Blank	SKL0152-CCBA	CubeData_12272022@1337-286	NA	12/15/22 00:01
Blank	BKL0299-BLK1	CubeData_12272022@1337-294	Solid	12/15/22 00:31
LCS	BKL0299-BS1	CubeData_12272022@1337-301	Solid	12/15/22 01:01
Reference	BKL0299-SRM1	CubeData_12272022@1337-307	Solid	12/15/22 01:32
LDW22-SS786	22L0136-08	CubeData_12272022@1337-312	Solid	12/15/22 02:02
LDW22-SS786	BKL0299-DUP1	CubeData_12272022@1337-319	Solid	12/15/22 02:33
LDW22-SS786	BKL0299-MS1	CubeData_12272022@1337-325	Solid	12/15/22 03:03
LDW22-SS766	22L0136-09	CubeData_12272022@1337-333	Solid	12/15/22 03:34
LDW22-SS771	22L0136-10	CubeData_12272022@1337-340	Solid	12/15/22 04:04
LDW22-SS771-FD	22L0136-11	CubeData_12272022@1337-345	Solid	12/15/22 04:34
LDW22-SS772	22L0136-12	CubeData_12272022@1337-350	Solid	12/15/22 05:05
Calibration Check	SKL0152-CCVB	CubeData_12272022@1337-358	NA	12/15/22 05:35
Calibration Blank	SKL0152-CCBB	CubeData_12272022@1337-365	NA	12/15/22 06:06
Calibration Check	SKL0152-CCVC	CubeData_12272022@1337-424	NA	12/15/22 11:40
Calibration Blank	SKL0152-CCBC	CubeData_12272022@1337-430	NA	12/15/22 12:10
Calibration Check	SKL0152-CCVD	CubeData_12272022@1337-498	NA	12/15/22 17:44
Calibration Blank	SKL0152-CCBD	CubeData_12272022@1337-504	NA	12/15/22 18:15
Calibration Check	SKL0152-CCVE	CubeData_12272022@1337-578	NA	12/15/22 23:50
Calibration Blank	SKL0152-CCBE	CubeData_12272022@1337-585	NA	12/16/22 00:20
Calibration Check	SKL0152-CCVF	CubeData_12272022@1337-062	NA	12/16/22 05:54
Calibration Blank	SKL0152-CCBF	CubeData_12272022@1337-073	NA	12/16/22 06:24
Calibration Check	SKL0152-CCVG	CubeData_12272022@1337-125	NA	12/16/22 08:56
Calibration Blank	SKL0152-CCBG	CubeData_12272022@1337-136	NA	12/16/22 09:26

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
1	1	BLANK	1.00		CARBON	12/12/2022 9:14 AM	bl	0.000	14 067	0.000	0.000	649	8 531	0.000	0.000	1.0000	1.0000



Name:

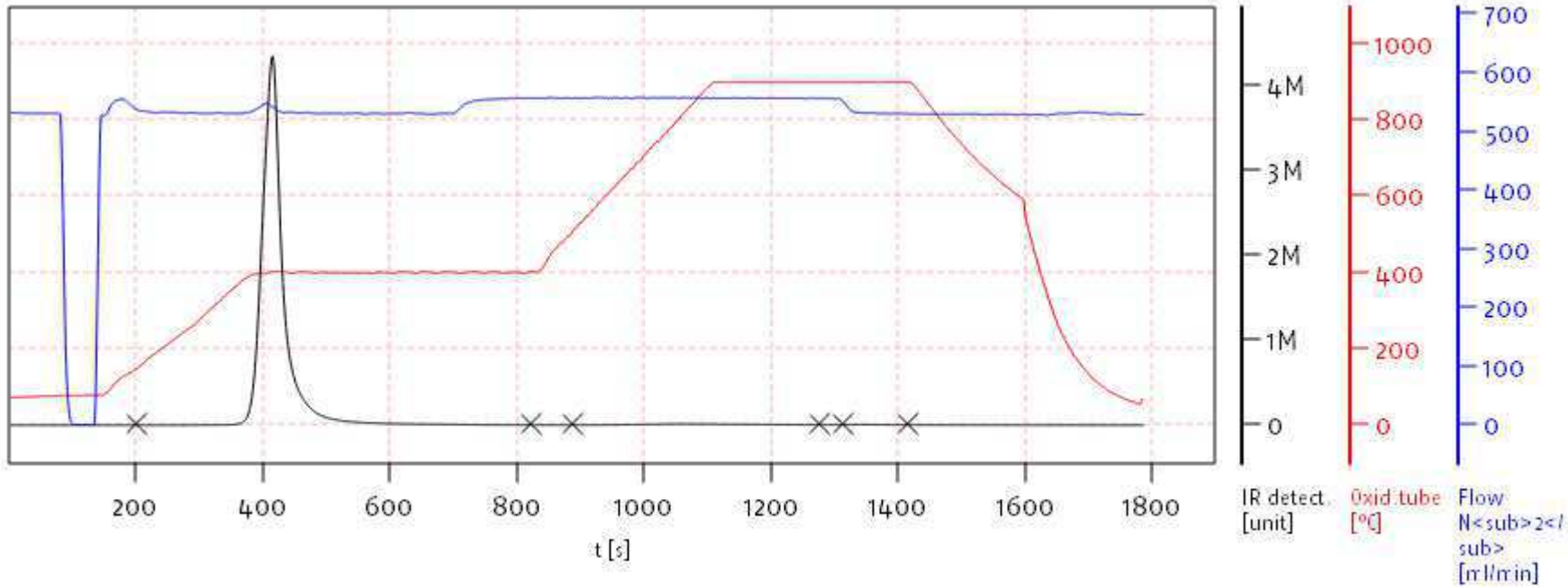
Access: soliTOC superuser

Date: Fri Dec 16 09:43:23 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
2	2	Dfactor	20.20		CARBON	12/12/2022 9:44 AM	bl	44.446	6 166 884	45.100	0.000	19 284	111 863	44.446	0.654	0.9445	1.0000



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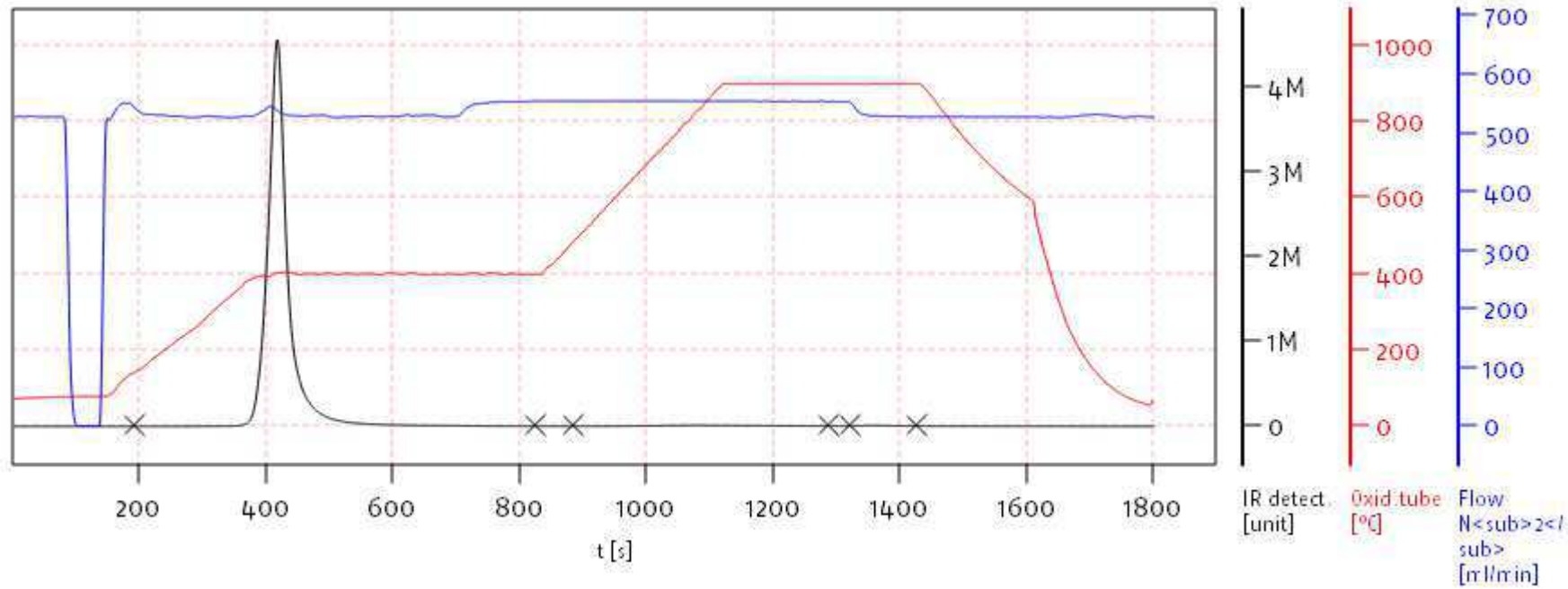
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
3	3	Dfactor	20.30		CARBON	12/12/2022 10:14 AM	bl	44.446	6 242 375	45.014	0.000	26 336	101 084	44.446	0.569	0.9377	1.0000



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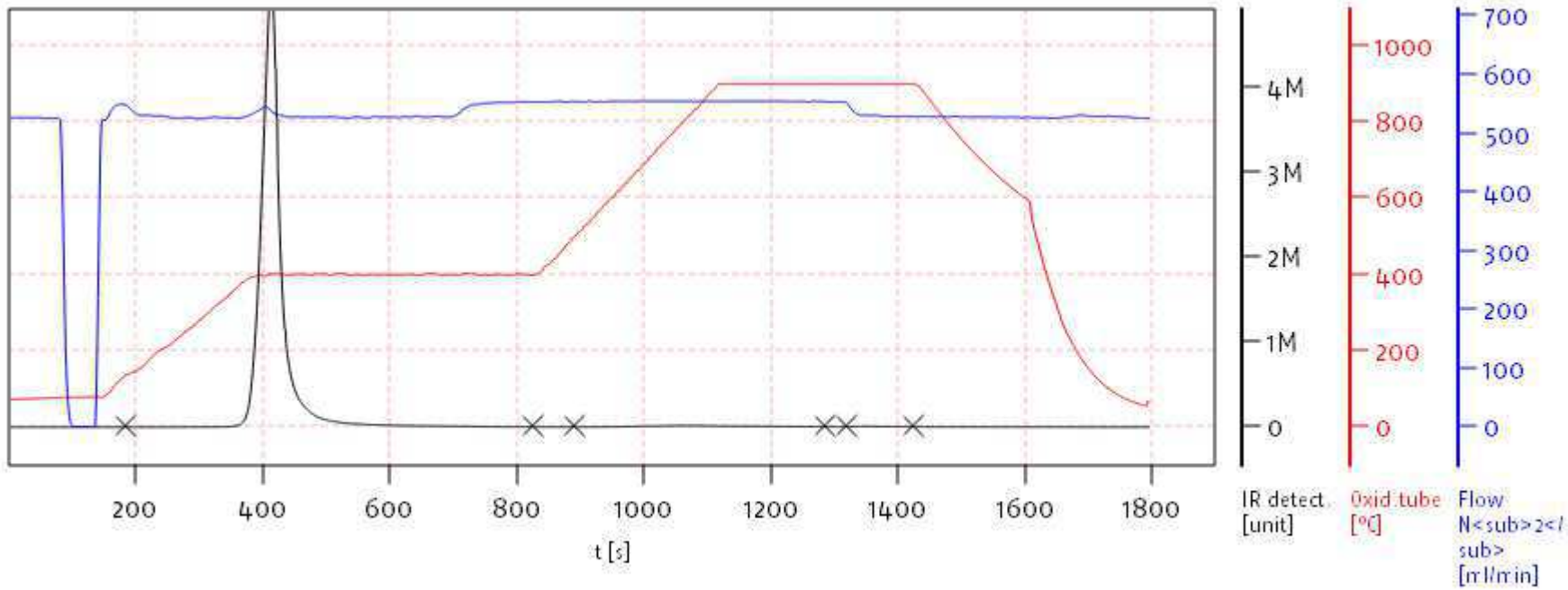
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
4	4	SKL0152-ICV1	22.20		CARBON	12/12/2022 10:45 AM	bl	44.994	6 883 003	45.728	0.000	24 484	131 742	44.994	0.734	0.9411	1.0000



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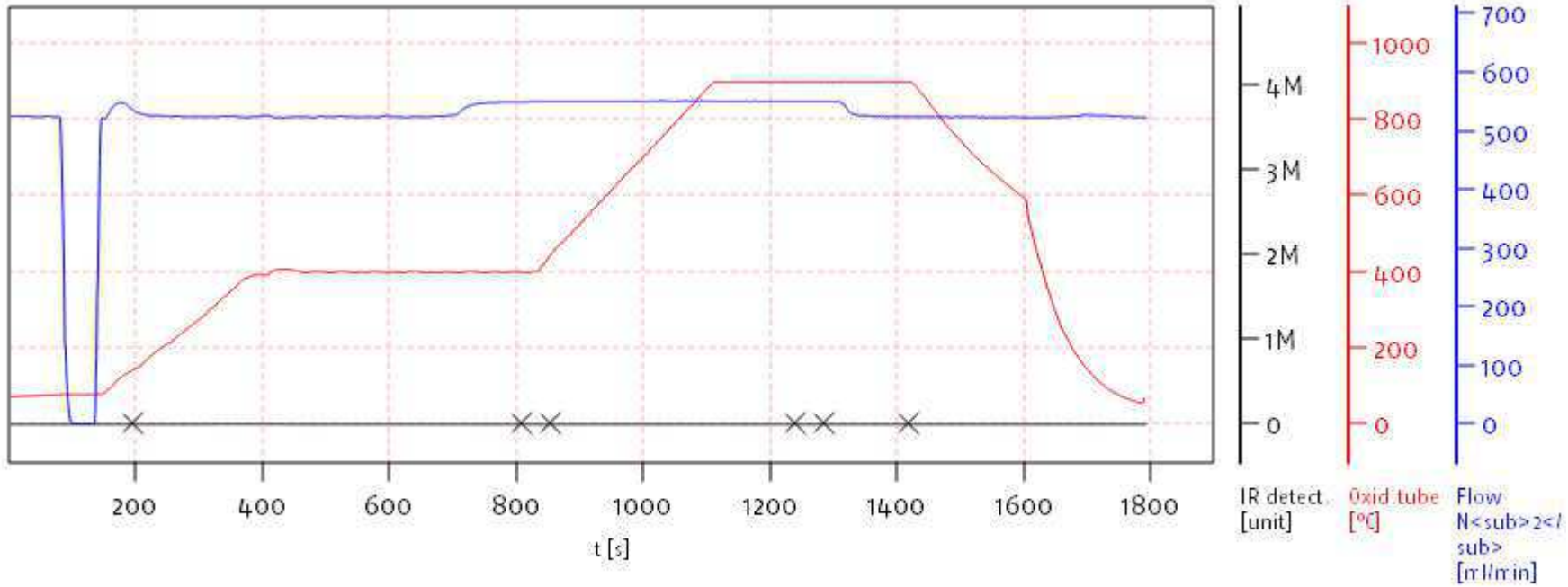
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
5	5	SKL0152-ICB1	518.20		CARBON	12/12/2022 11:15 AM	bl,C3u,C2u	0.000	7 810	0.000	0.000	945	205	0.000	0.000	0.9411	1.0000



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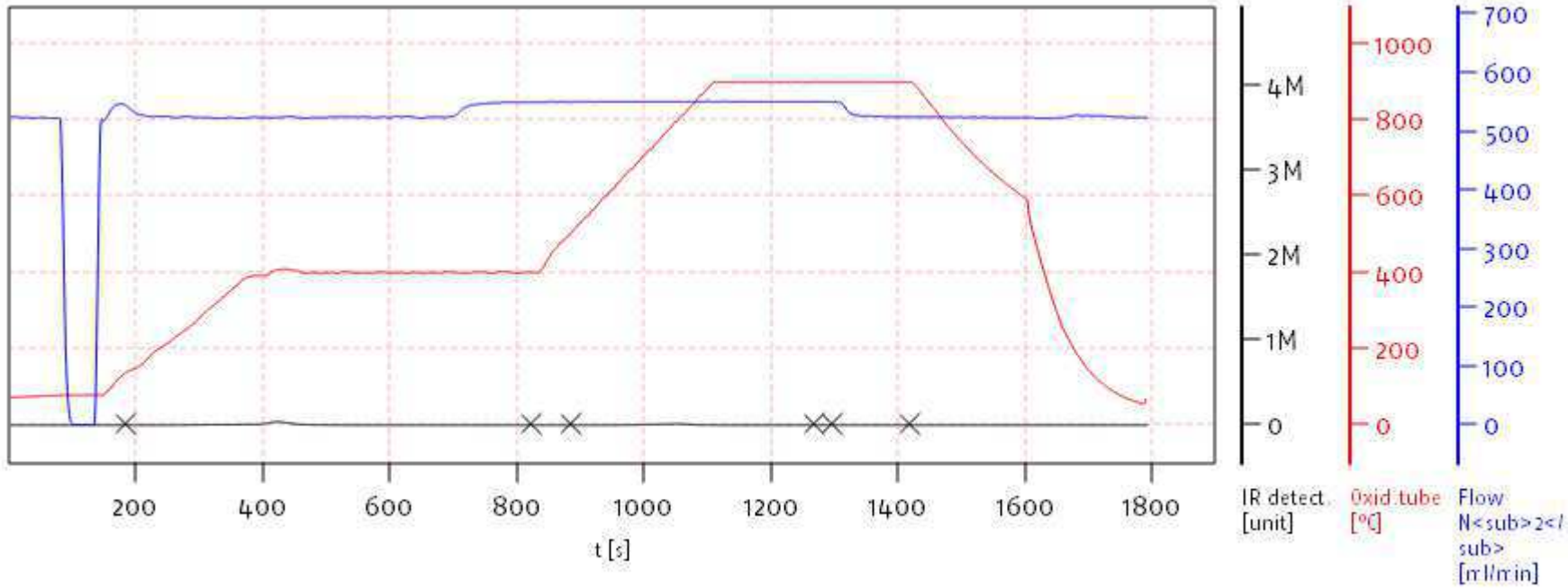
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
6	6	BKL0237-MRL1	528.80		CARBON	12/12/2022 11:45 AM	bl,C2u	0.019	96 343	0.023	0.000	1 010	38 216	0.019	0.003	0.9411	1.0000



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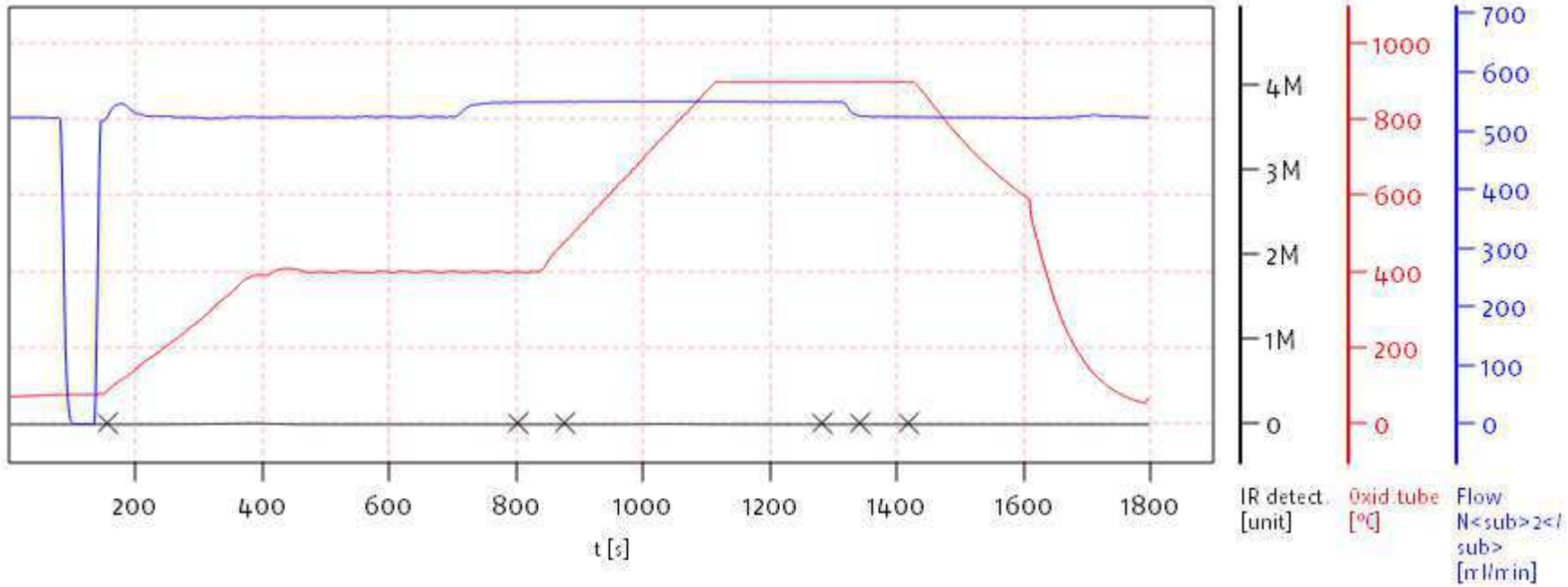
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
7	7	BKL0237-BLK1	515.10		CARBON	12/12/2022 12:16 PM	bl,C2u	0.006	47 028	0.006	0.000	446	21 295	0.006	0.000	0.9411	1.0000



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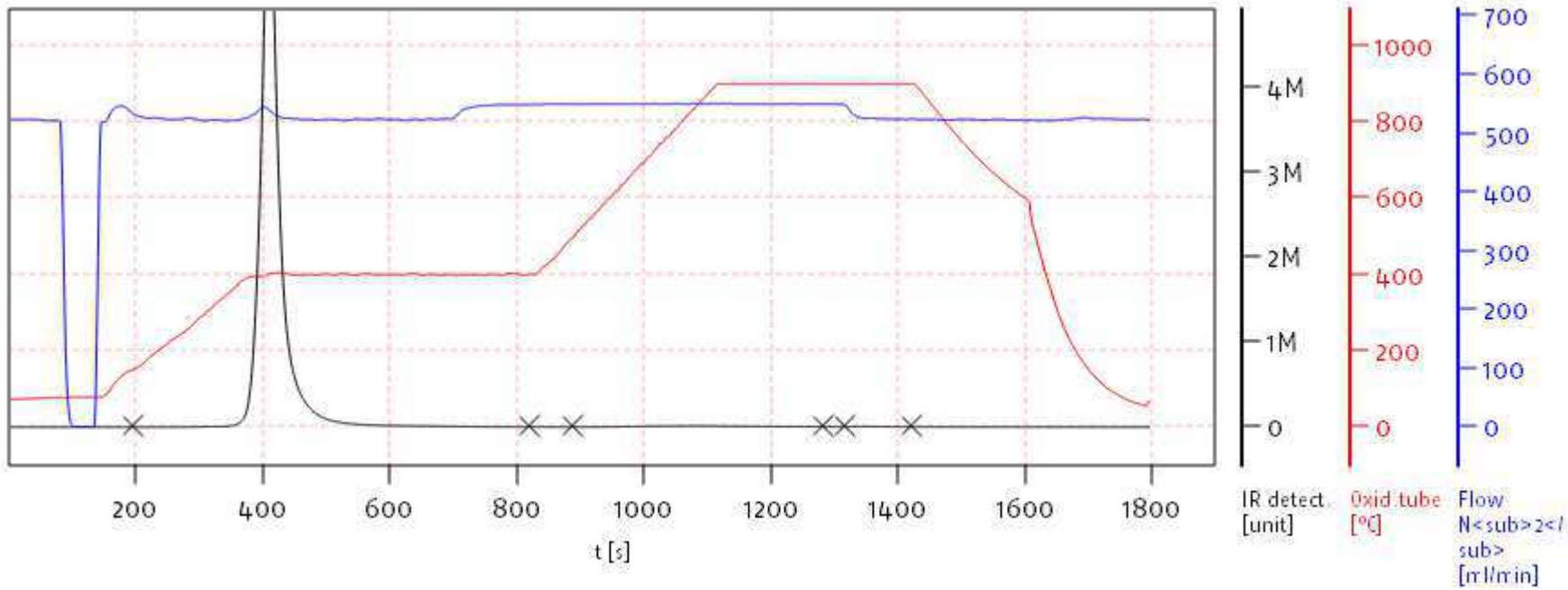
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
8	8	BKL0237-BS1	26.10		CARBON	12/12/2022 12:46 PM	bl	46.013	8 270 115	46.547	0.000	21 069	116 454	46.013	0.533	0.9411	1.0000



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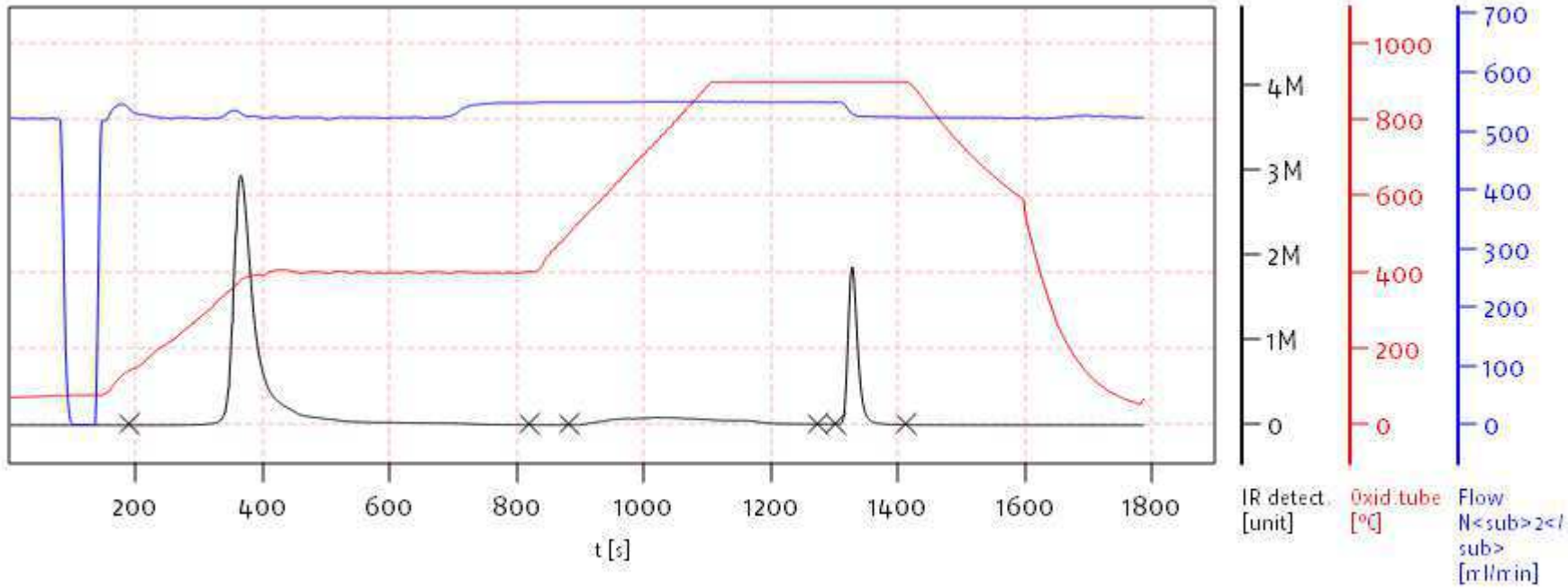
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
9	9	BKL0237-SRM1	293.40		CARBON	12/12/2022 1:16 PM	bl	2.967	4 696 975	3.341	0.648	1 254 063	736 550	2.319	0.375	0.9411	1.0000



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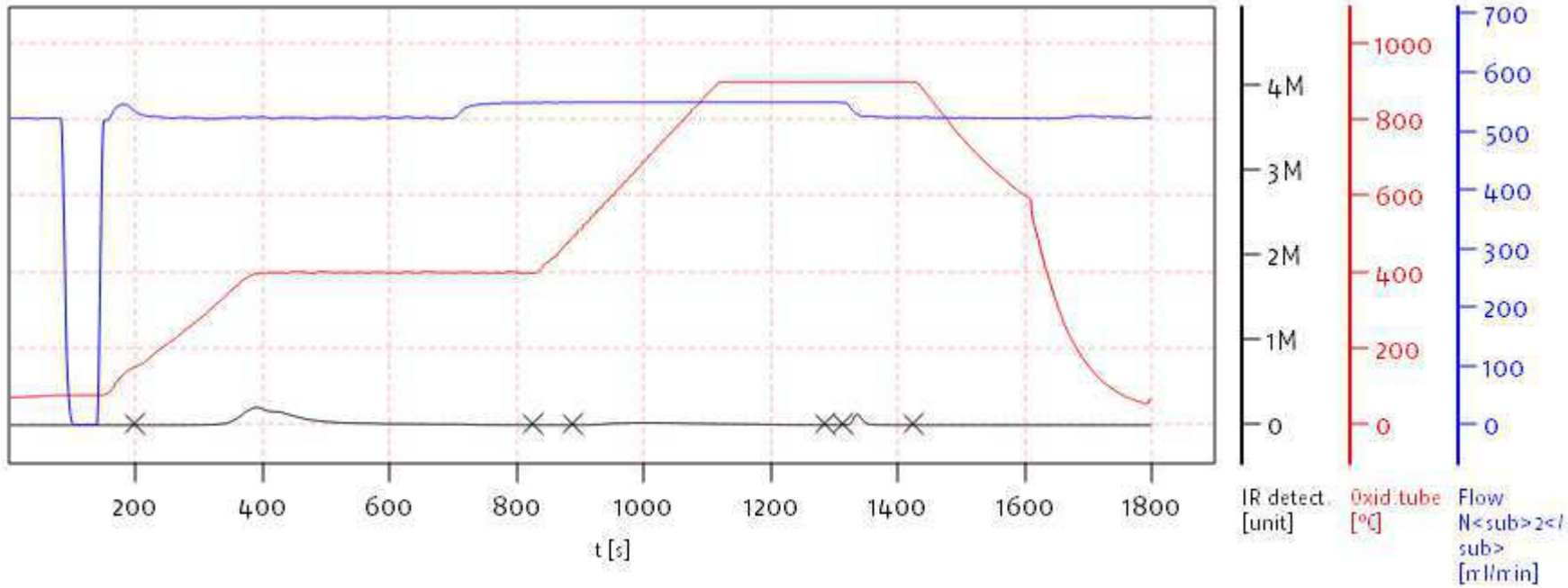
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
10	10	22K0361-02	189.40		CARBON	12/12/2022 1:46 PM	bl	0.688	862 905	0.830	0.045	81 318	199 848	0.643	0.142	0.9411	1.0000



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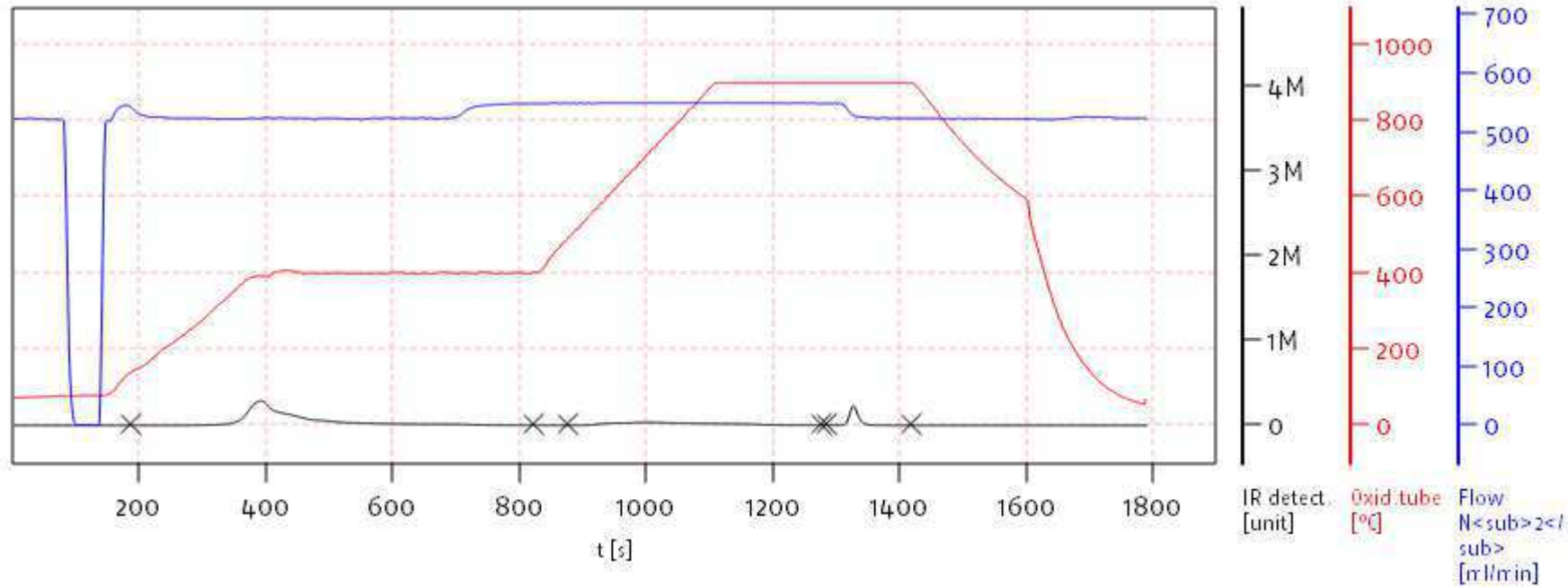
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
11	11	BKL0237-DUP1	206.60		CARBON	12/12/2022 2:17 PM	bl	0.752	971 122	0.923	0.086	141 685	254 112	0.666	0.171	0.9411	1.0000



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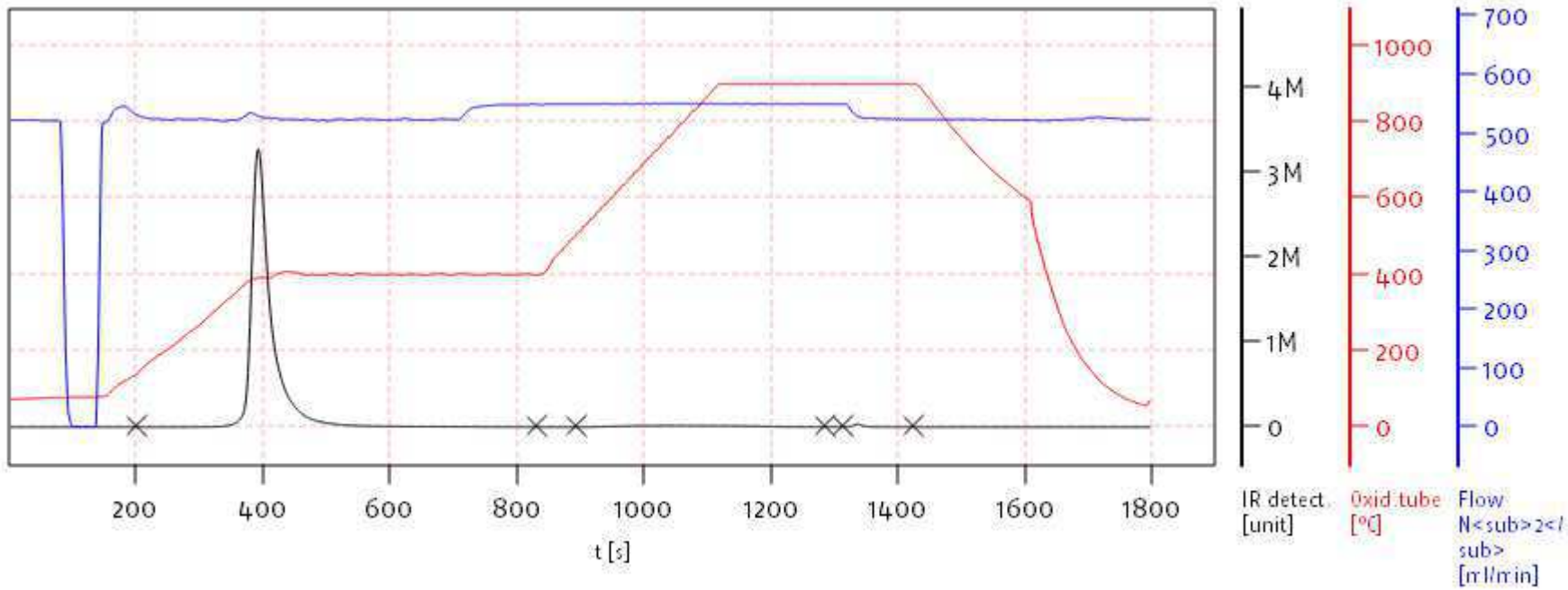
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
12	12	BKL0237-MS1	188.00	0.0104	CARBON	12/12/2022 2:47 PM	bl	3.381	4 389 710	3.476	0.000	23 846	141 512	3.381	0.095	0.9411	1.0000



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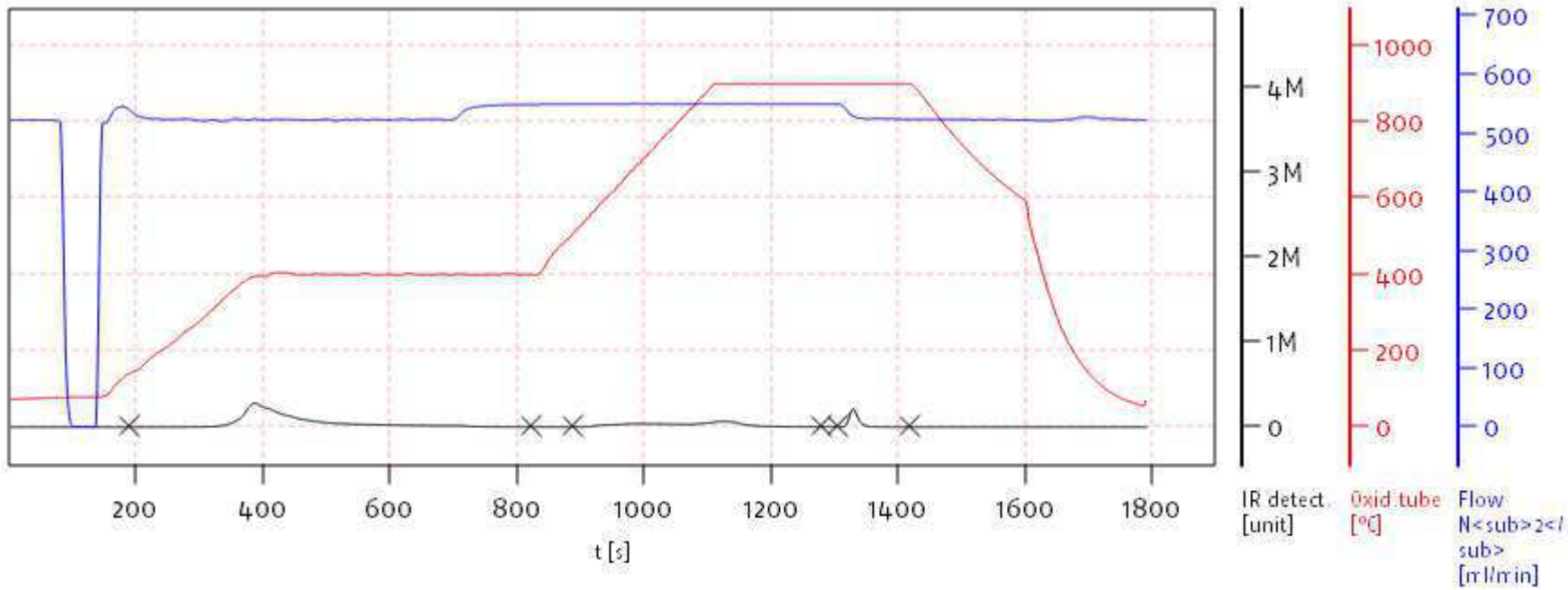
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
13	13	22K0361-03	214.90		CARBON	12/12/2022 3:17 PM	bl	0.781	1 064 322	1.045	0.077	133 704	393 328	0.704	0.264	0.9411	1.0000



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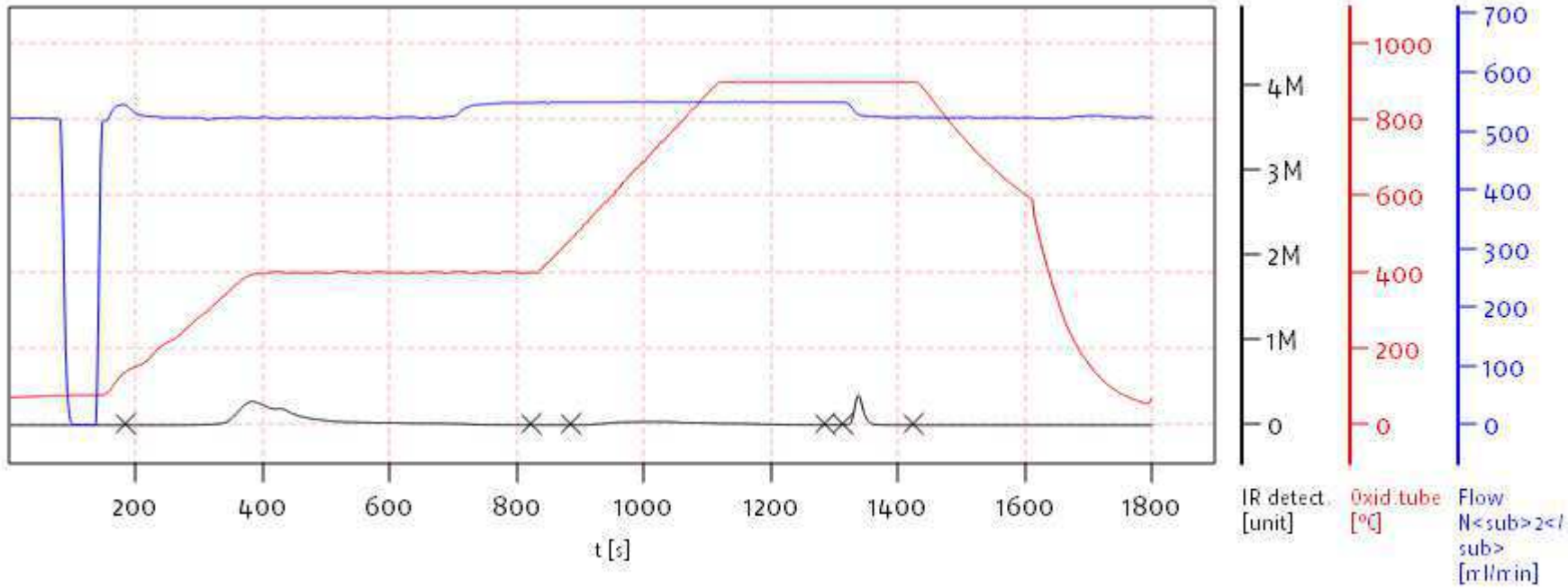
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
14	14	22K0361-04	240.10		CARBON	12/12/2022 3:48 PM	bl	0.829	1 194 262	0.998	0.120	213 233	288 220	0.709	0.169	0.9411	1.0000



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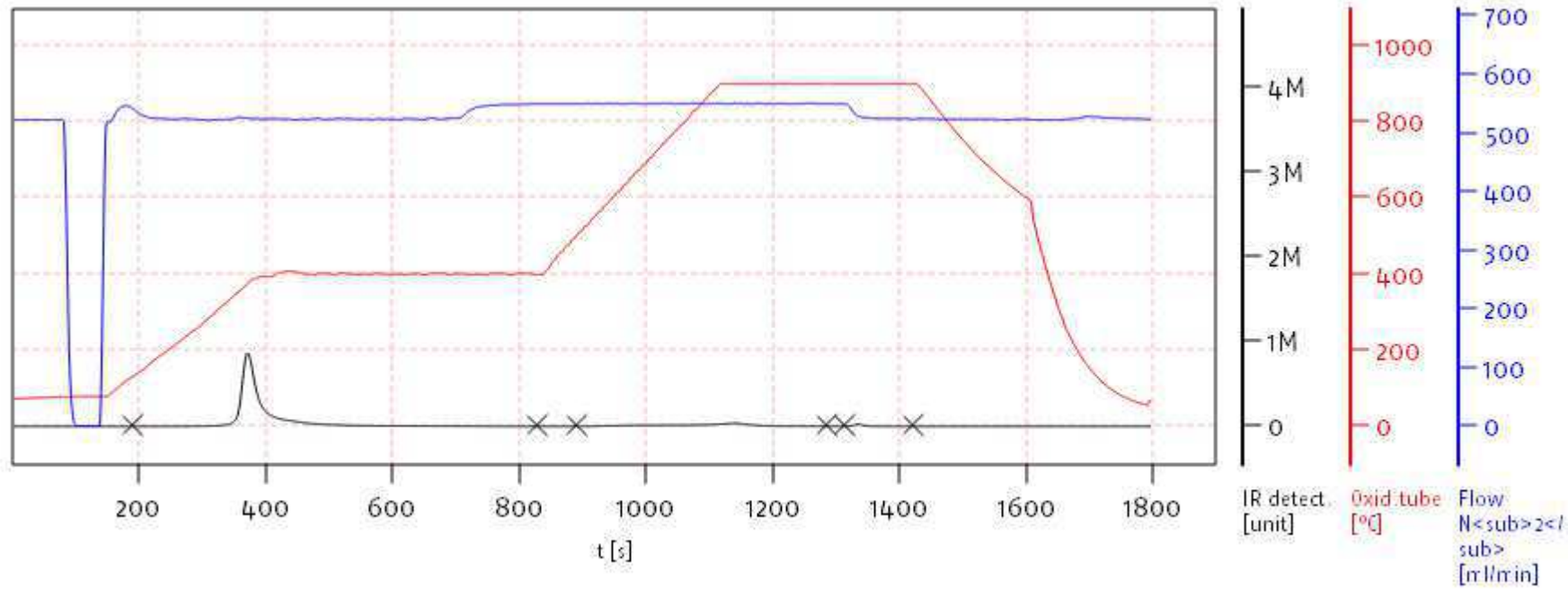
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
15	15	22L0104-01	139.40		CARBON	12/12/2022 4:18 PM	bl	1.183	1 158 111	1.343	0.000	16 879	171 223	1.183	0.161	0.9411	1.0000



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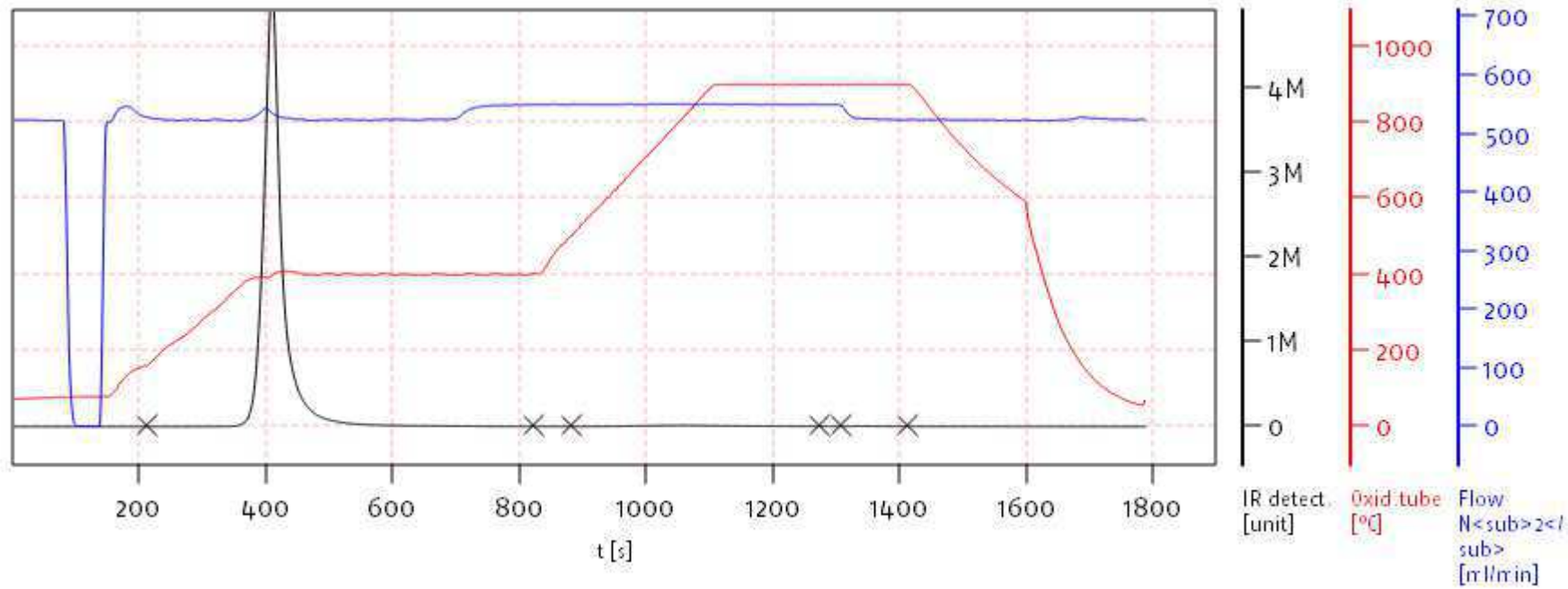
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
16	16	SKL0152-CCV1	21.00		CARBON	12/12/2022 4:48 PM	bl	44.768	6 479 730	45.322	0.000	14 687	101 675	44.768	0.554	0.9411	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
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Mode CCC

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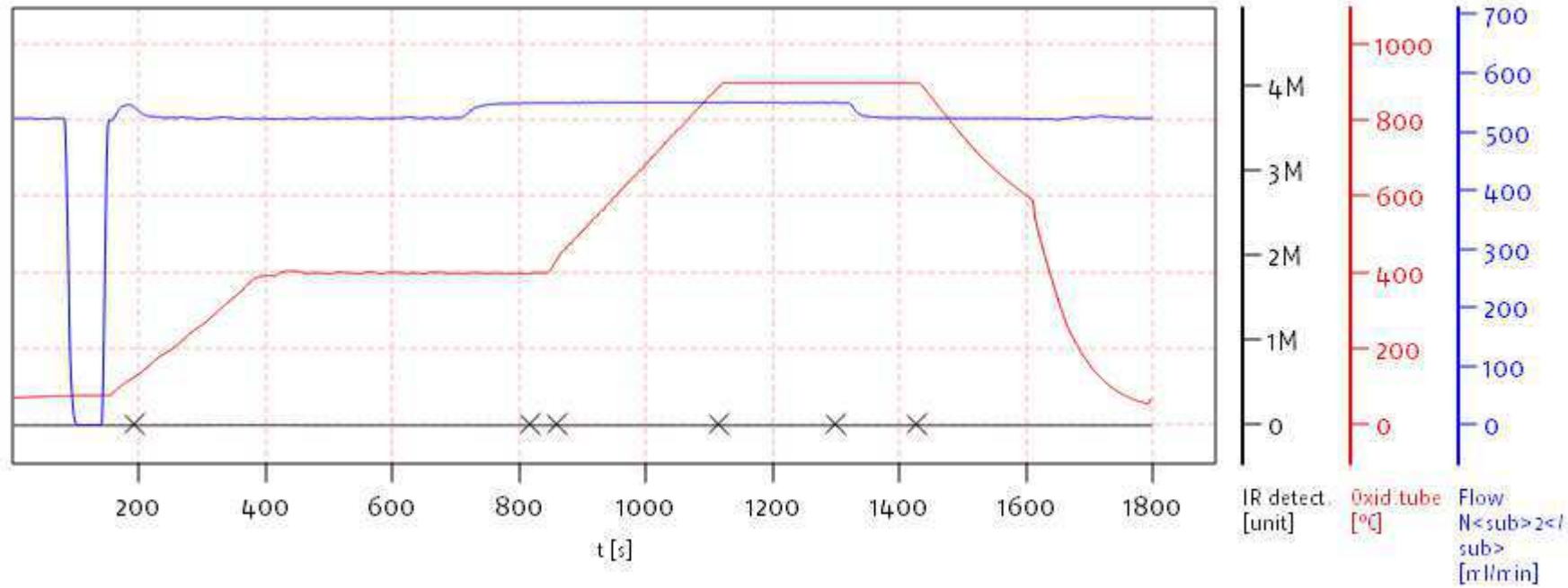
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
17	17	SKL0152-CCB1	533.30		CARBON	12/12/2022 5:19 PM	bl,C3u,C2u	0.000	12 032	0.000	0.000	285	521	0.000	0.000	0.9411	1.0000



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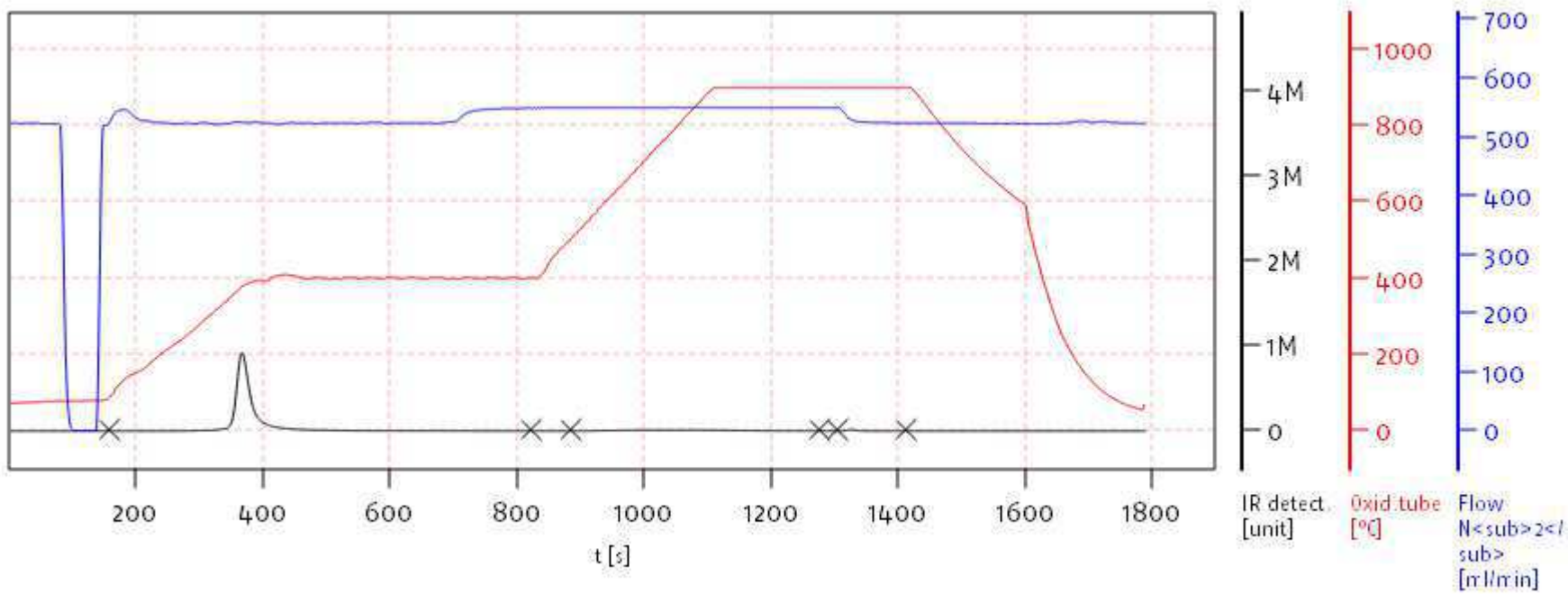
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
18	18	BKL0237-DUP2	124.10		CARBON	12/12/2022 5:49 PM	bl	1.149	1 004 999	1.228	0.000	10 630	89 814	1.149	0.079	0.9411	1.0000



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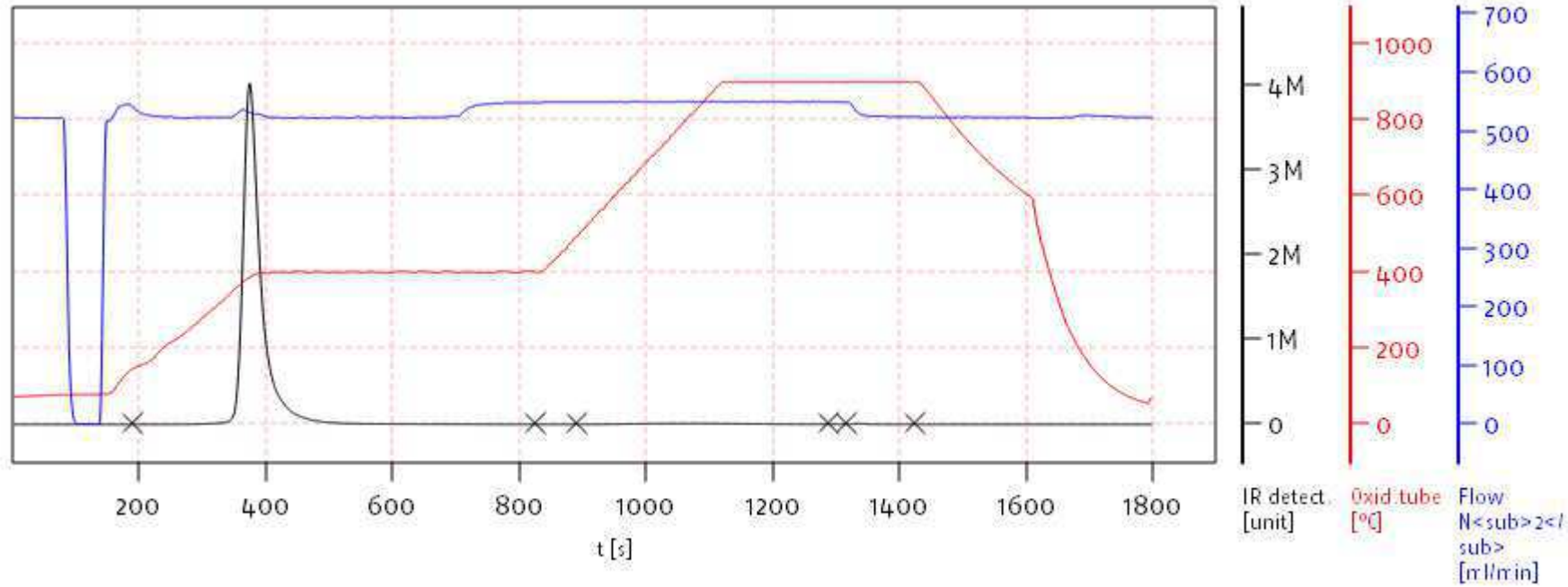
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
19	19	BKL0237-MS2	195.40	0.0108	CARBON	12/12/2022 6:19 PM	bl	3.678	4 959 747	3.726	0.000	8 557	87 282	3.678	0.048	0.9411	1.0000



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Serial No: 0300.181017
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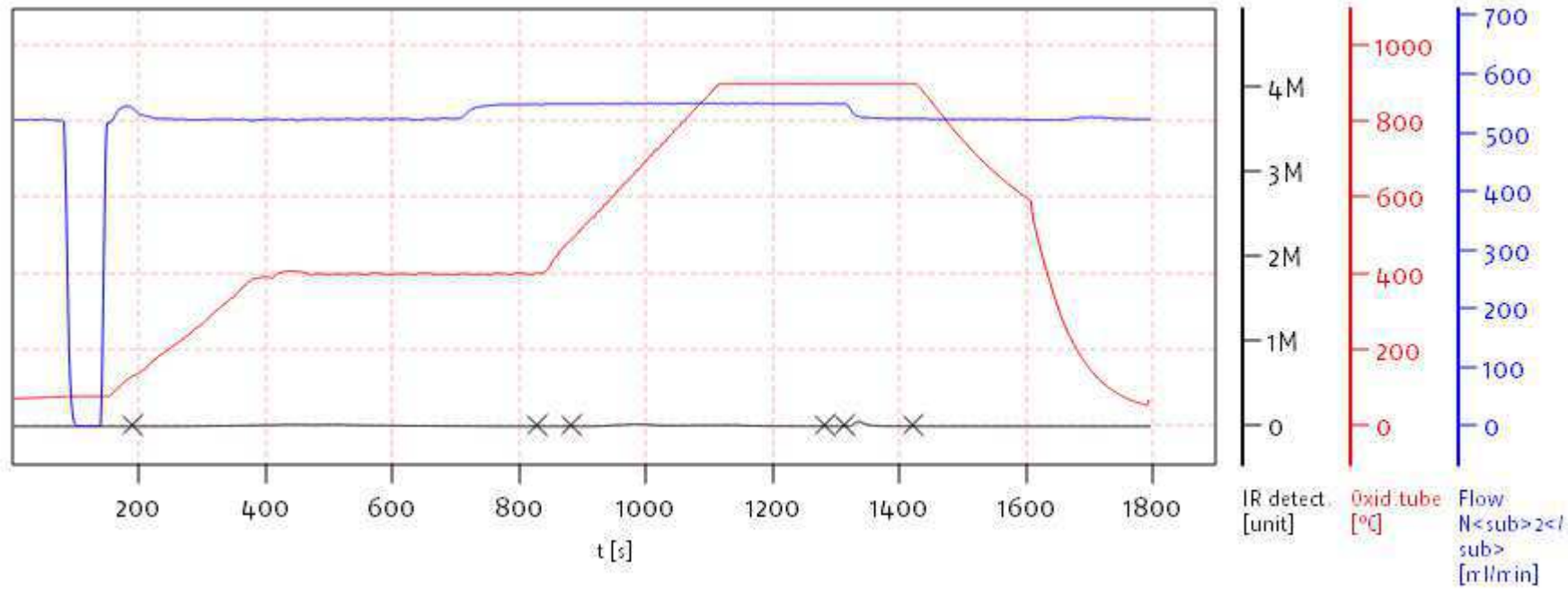
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
20	20	22L0104-02	504.20		CARBON	12/12/2022 6:49 PM	bl	0.050	176 947	0.082	0.006	47 437	130 635	0.043	0.032	0.9411	1.0000



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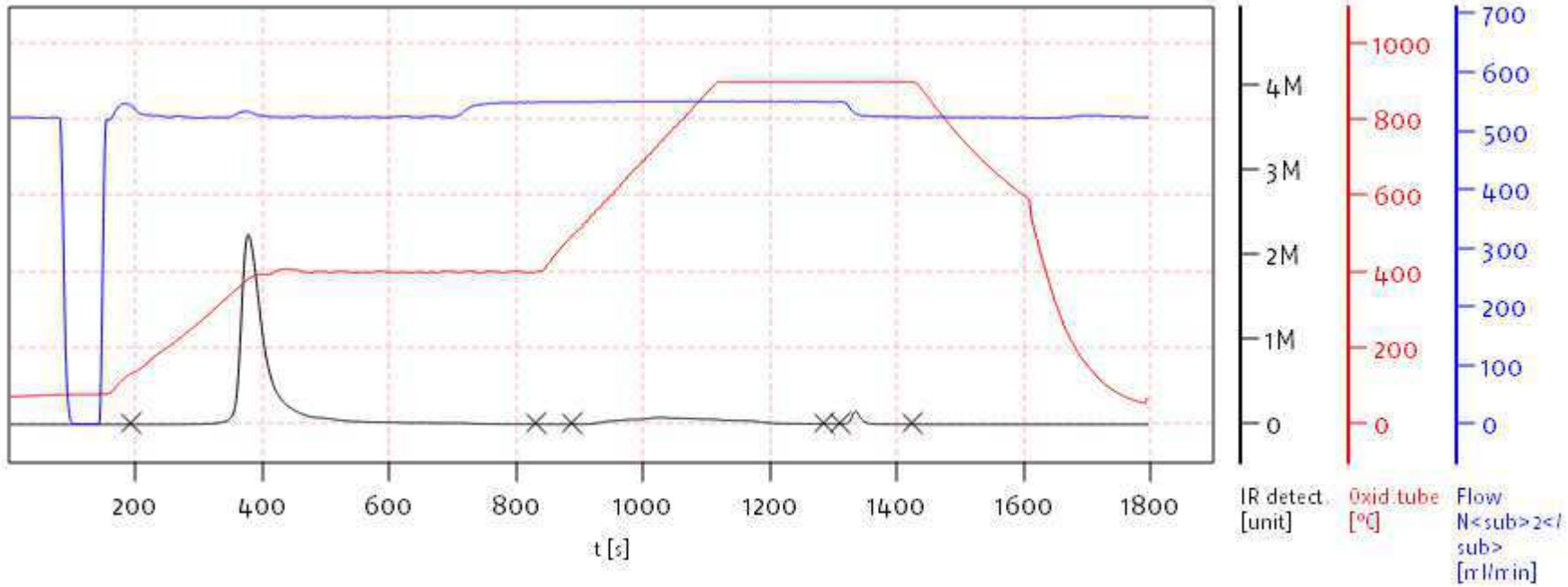
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
21	21	22L0198-01	502.90		CARBON	12/12/2022 7:20 PM	bl	1.117	3 803 866	1.291	0.023	101 038	591 586	1.094	0.174	0.9411	1.0000



Name:

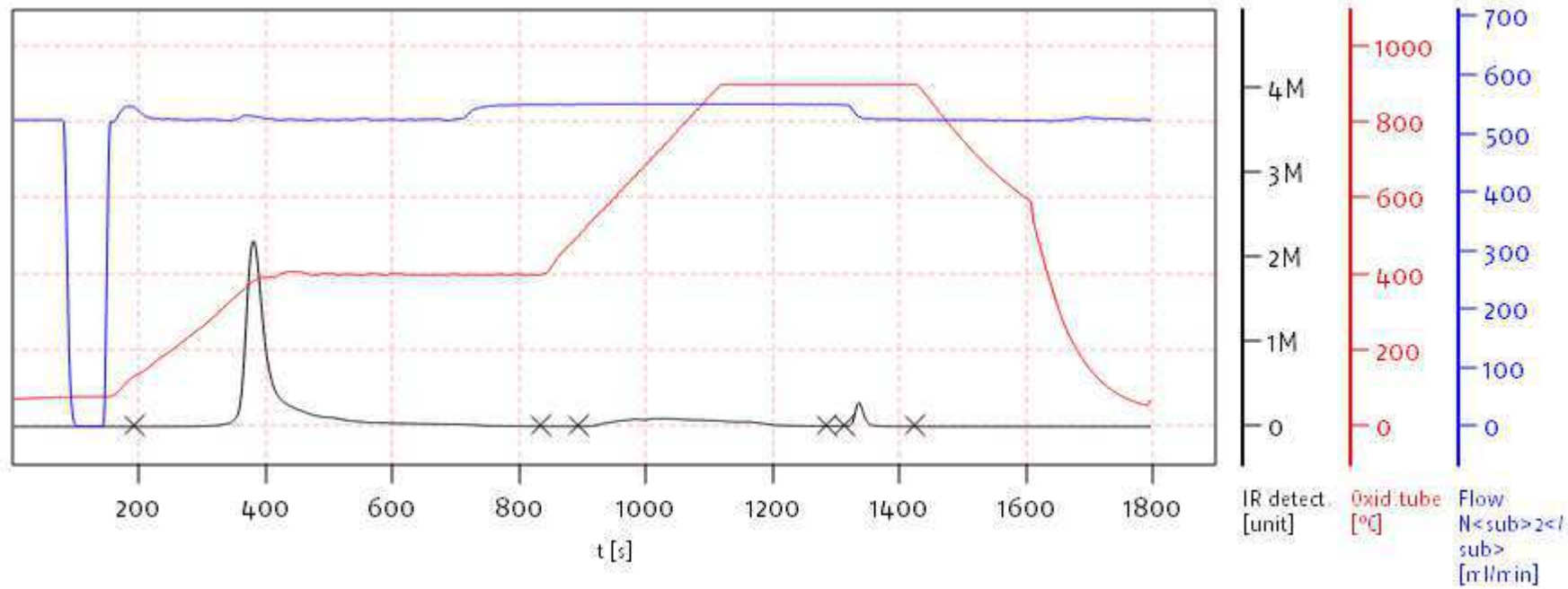
Access: soliTOC superuser

Date: Fri Dec 16 09:43:23 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
22	22	BKL0237-DUP3	523.40		CARBON	12/12/2022 7:50 PM	bl	1.079	3 743 847	1.292	0.045	177 354	745 408	1.035	0.213	0.9411	1.0000



Name:

Access: soliTOC superuser

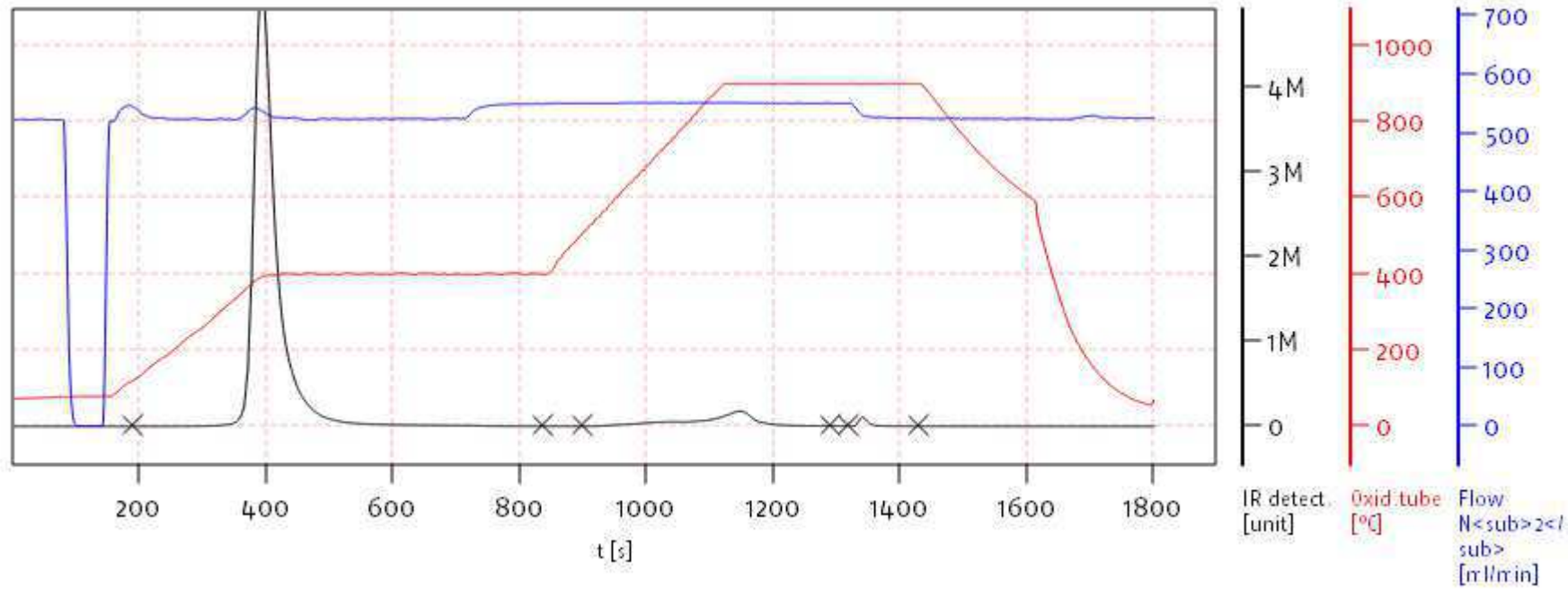
Date: Fri Dec 16 09:43:23 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Document: 121222 DOE from: 12/16/2022 9:42 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
23	23	BKL0237-MS3	539.10	0.0109	CARBON	12/12/2022 8:21 PM	bl	2.171	8 009 333	2.364	0.014	75 327	696 712	2.157	0.192	0.9411	1.0000



Name:

Access: soliTOC superuser

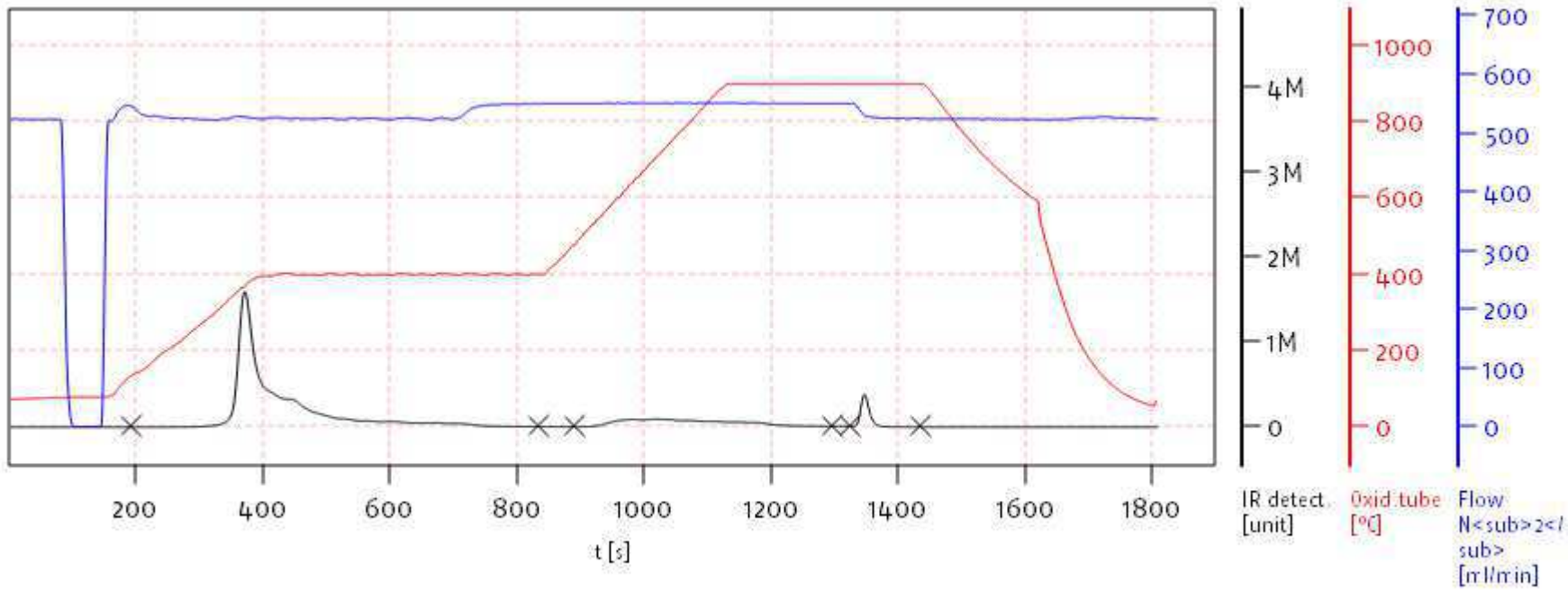
Date: Fri Dec 16 09:43:23 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
24	24	22L0198-02	531.30		CARBON	12/12/2022 8:51 PM	bl	0.996	3 435 898	1.213	0.061	236 546	771 541	0.935	0.217	0.9411	1.0000



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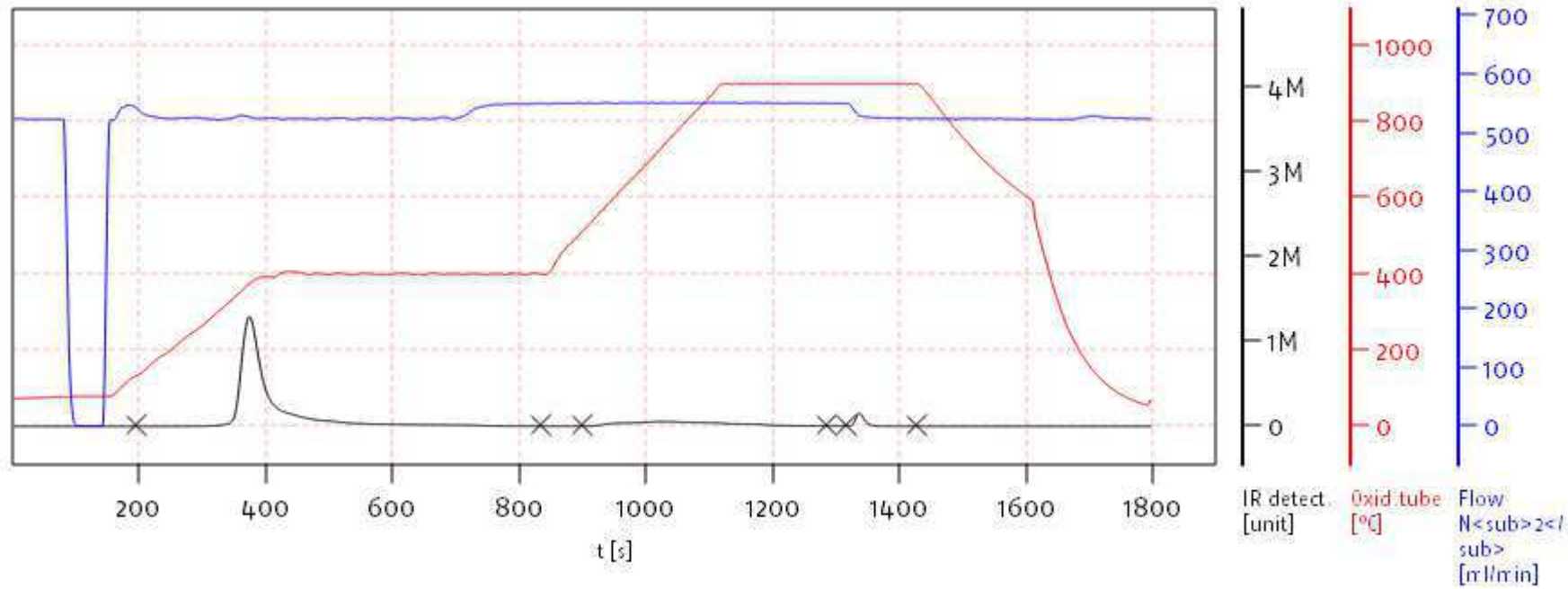
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
25	25	22L0198-03	314.50		CARBON	12/12/2022 9:21 PM	bl	1.119	2 366 968	1.316	0.034	96 577	428 001	1.084	0.198	0.9411	1.0000



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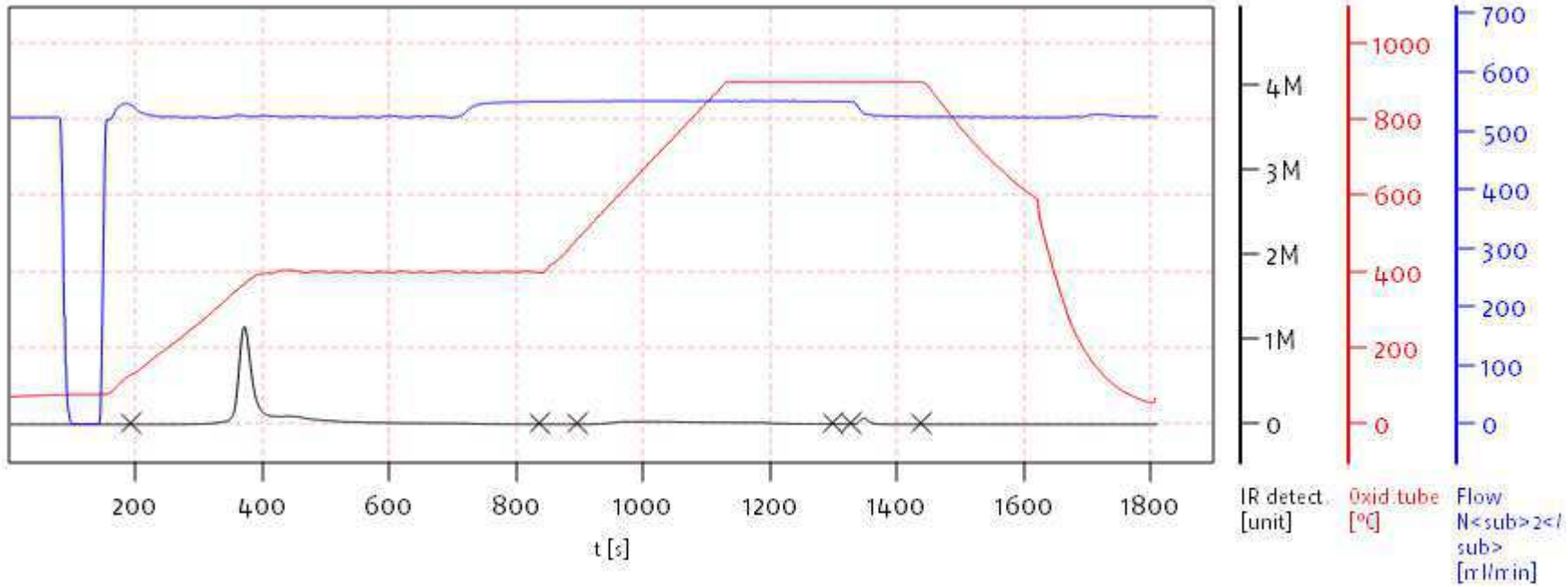
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
26	26	22L0198-04	231.50		CARBON	12/12/2022 9:52 PM	bl	0.981	1 563 261	1.151	0.014	47 900	279 681	0.967	0.169	0.9411	1.0000



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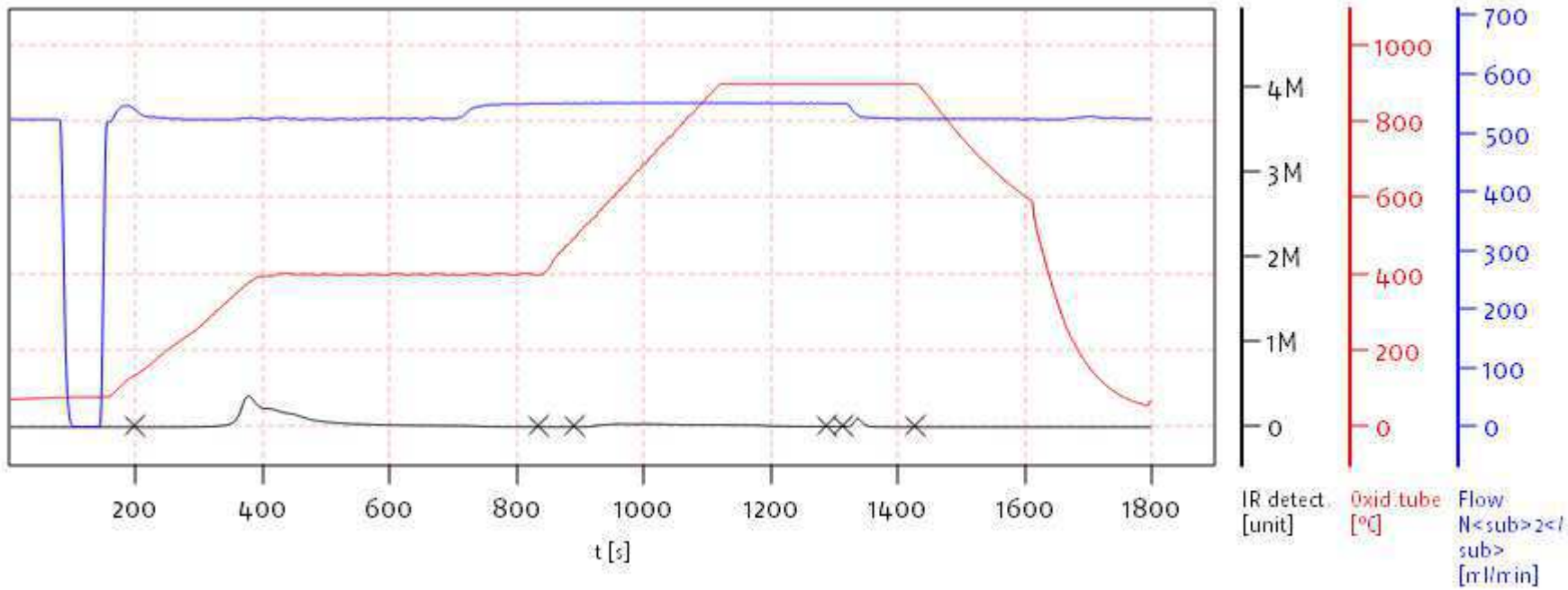
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
27	27	22L0198-05	219.90		CARBON	12/12/2022 10:22 PM	bl	0.834	1 244 901	1.039	0.027	64 935	316 824	0.807	0.204	0.9411	1.0000



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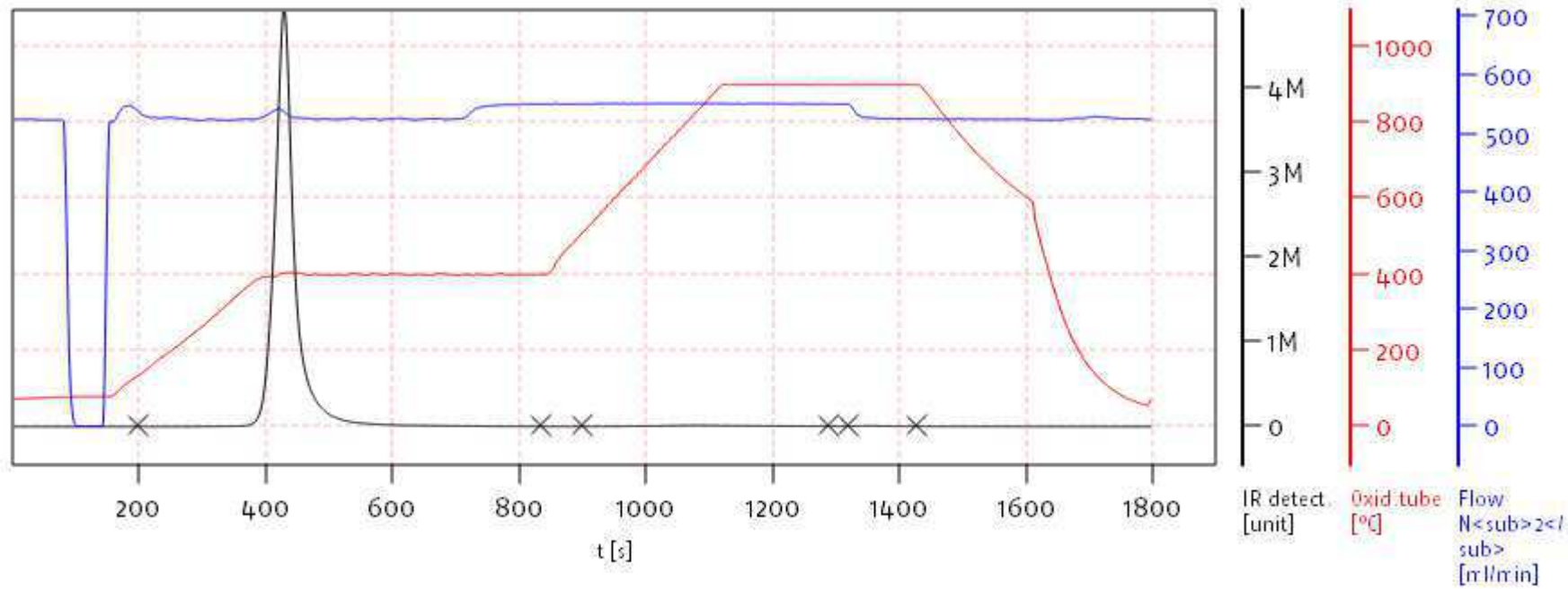
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
28	28	SKL0152-CCV2	22.00		CARBON	12/12/2022 10:53 PM	bl	44.623	6 765 118	45.198	0.000	23 370	108 350	44.623	0.576	0.9411	1.0000



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Serial No: 0300.181017
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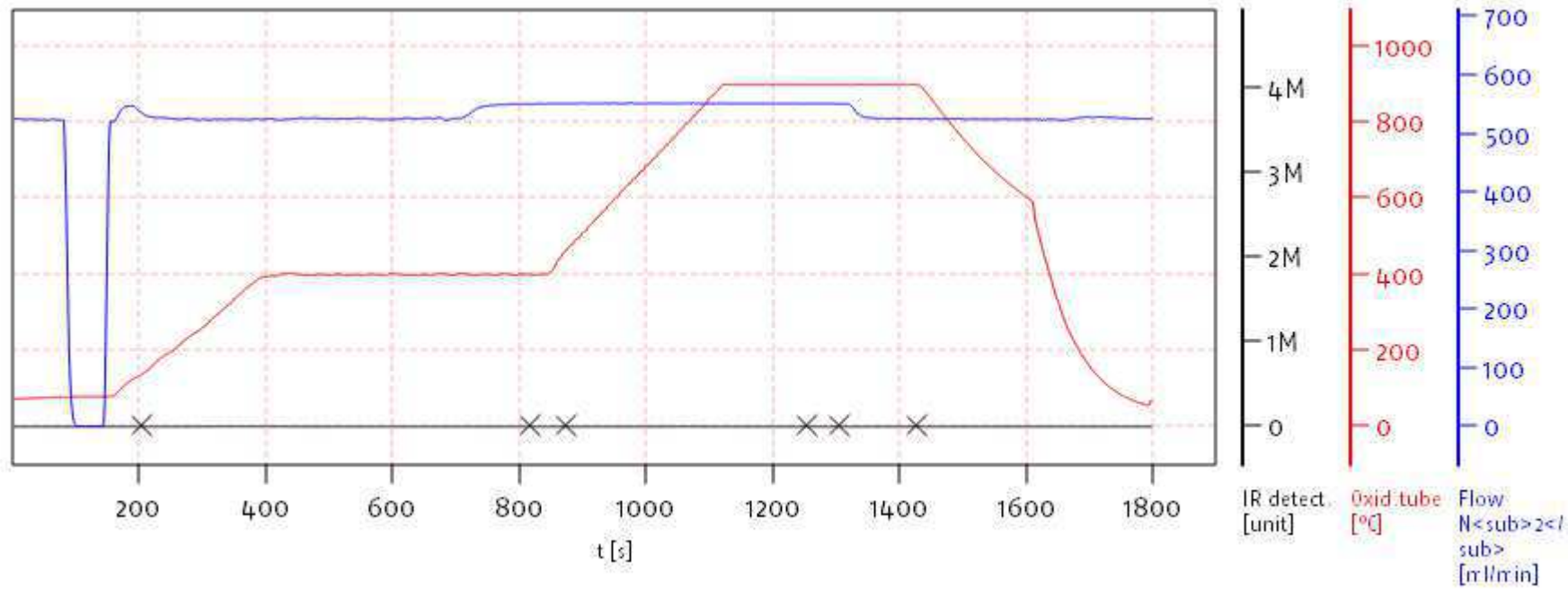
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
29	29	SKL0152-CCB2	550.80		CARBON	12/12/2022 11:23 PM	bl,C3u,C2u	0.000	8 348	0.000	0.000	260	2 327	0.000	0.000	0.9411	1.0000



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Serial No: 0300.181017
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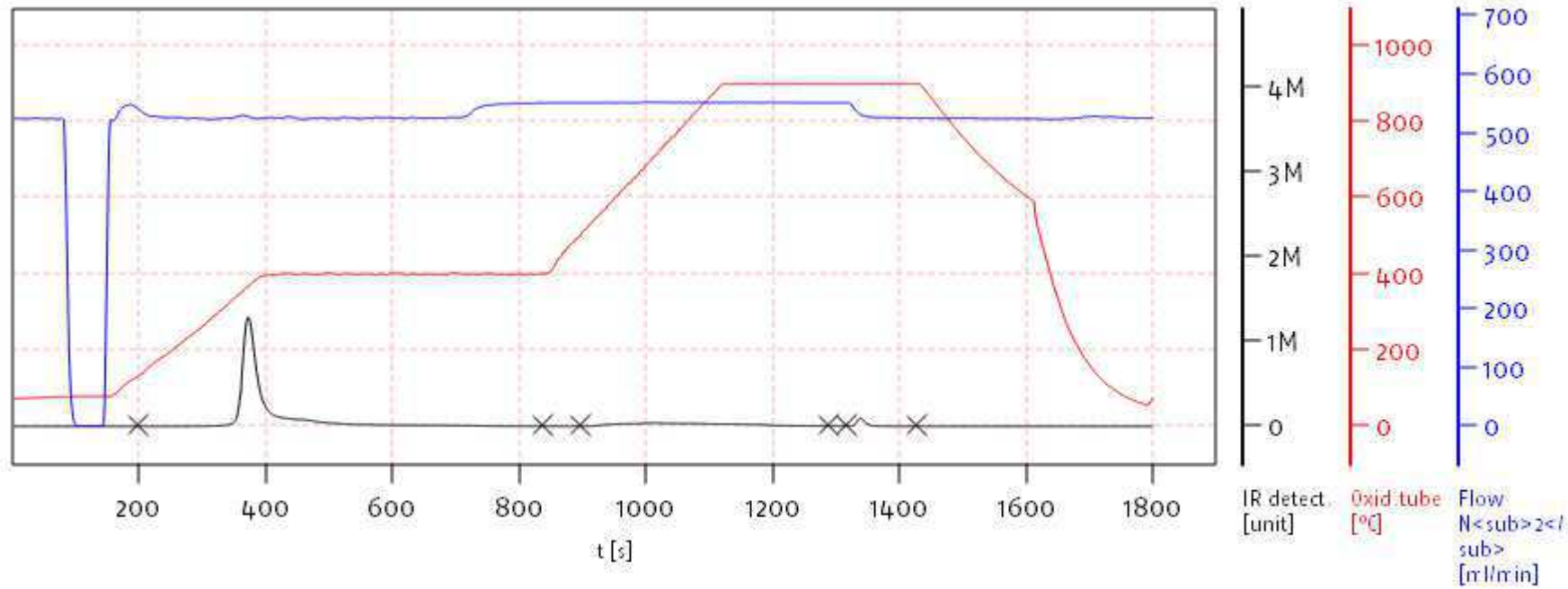
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
30	30	22L0198-06	234.40		CARBON	12/12/2022 11:53 PM	bl	1.080	1 728 861	1.272	0.022	59 390	317 900	1.058	0.192	0.9411	1.0000



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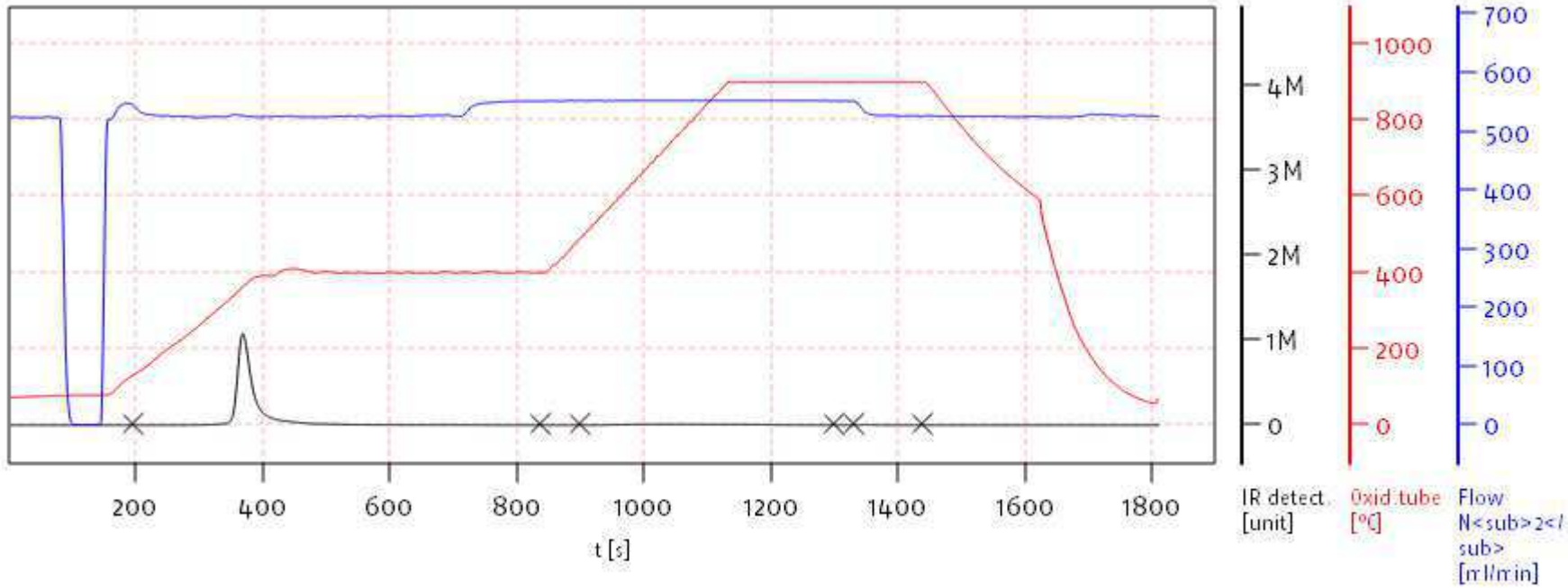
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
31	31	22L0198-07	140.40		CARBON	12/13/2022 12:24 AM	bl	1.244	1 225 795	1.309	0.000	4 587	85 204	1.244	0.065	0.9411	1.0000



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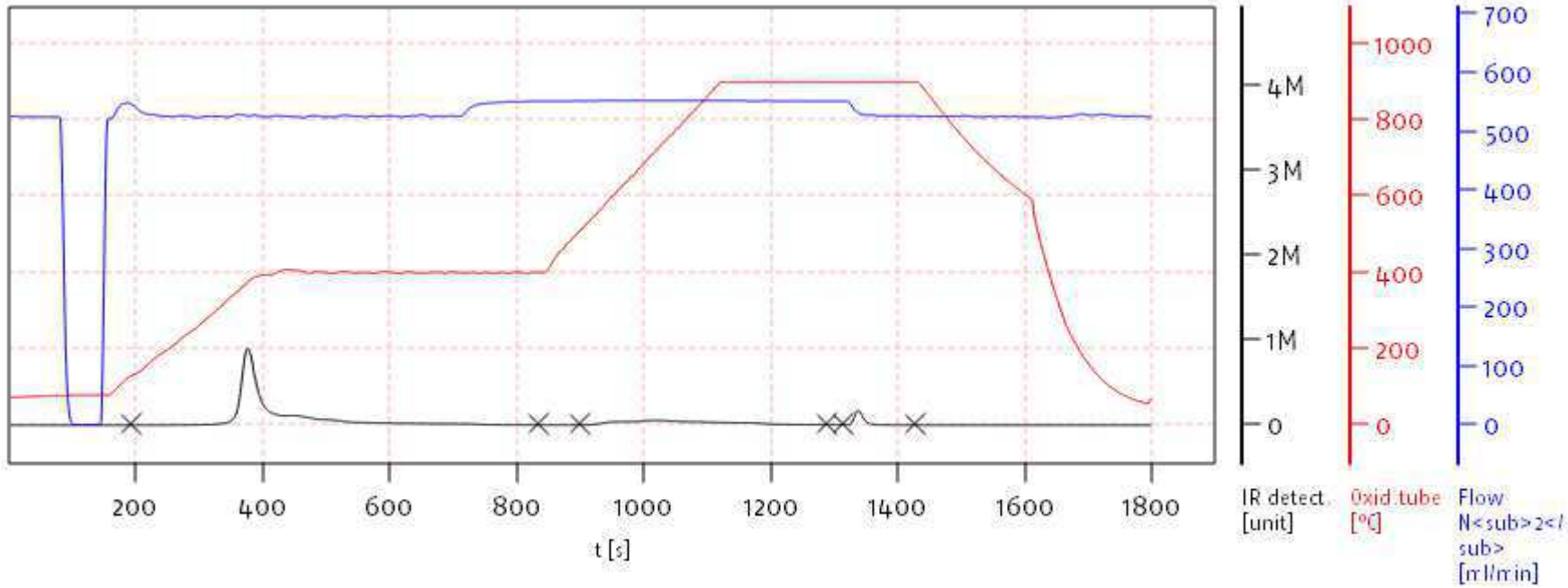
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
32	32	22L0198-08	235.60		CARBON	12/13/2022 12:54 AM	bl	1.024	1 594 778	1.271	0.055	109 865	401 866	0.970	0.247	0.9411	1.0000



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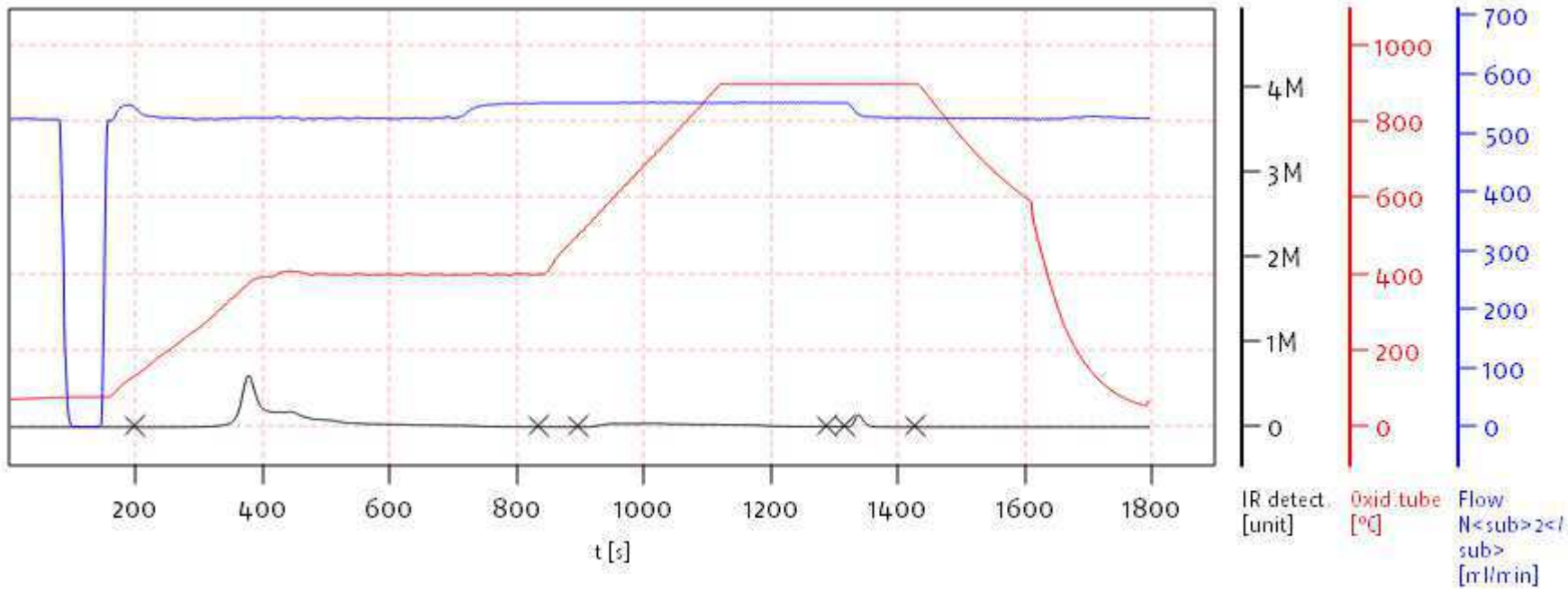
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
33	33	22L0198-09	226.50		CARBON	12/13/2022 1:25 AM	bl	1.009	1 527 826	1.232	0.044	90 309	352 268	0.966	0.223	0.9411	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
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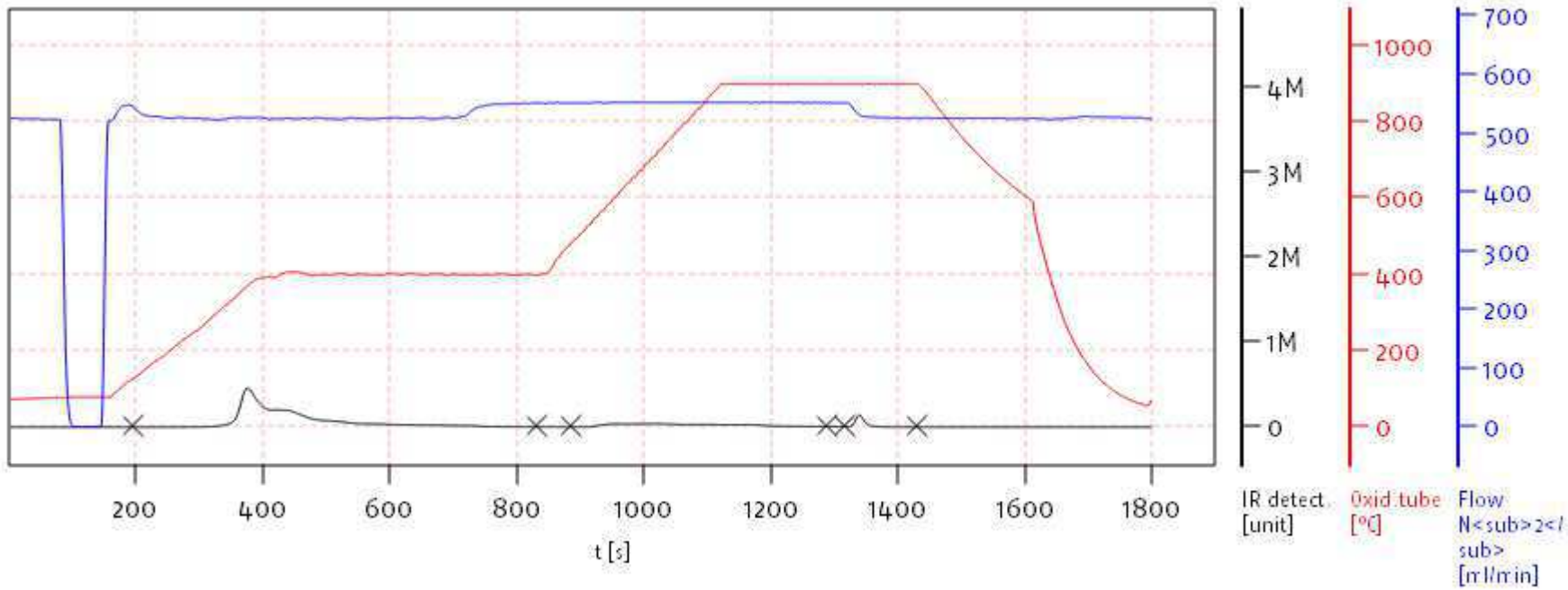
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
34	34	22L0198-10	228.10		CARBON	12/13/2022 1:55 AM	bl	0.971	1 476 714	1.192	0.045	92 967	352 033	0.926	0.221	0.9411	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
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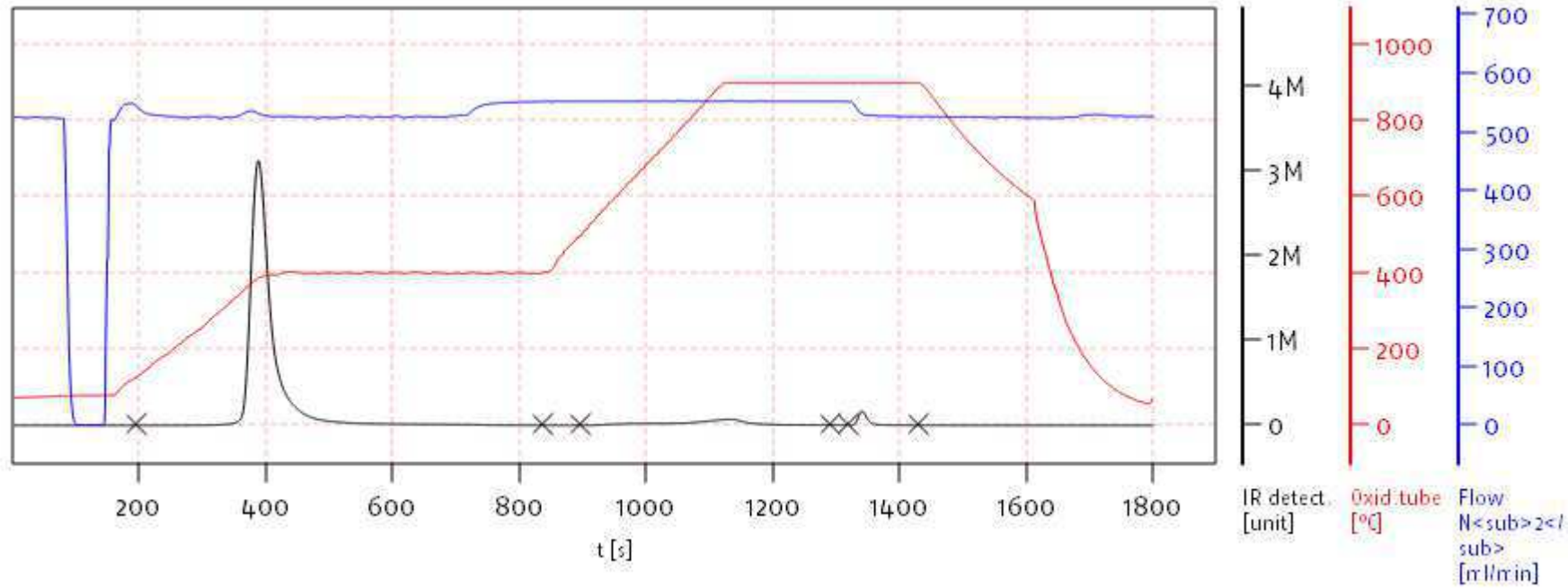
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
35	35	22K0399-05RE1	199.30		CARBON	12/13/2022 2:26 AM	bl	3.296	4 447 439	3.535	0.065	109 615	333 833	3.232	0.239	0.9411	1.0000



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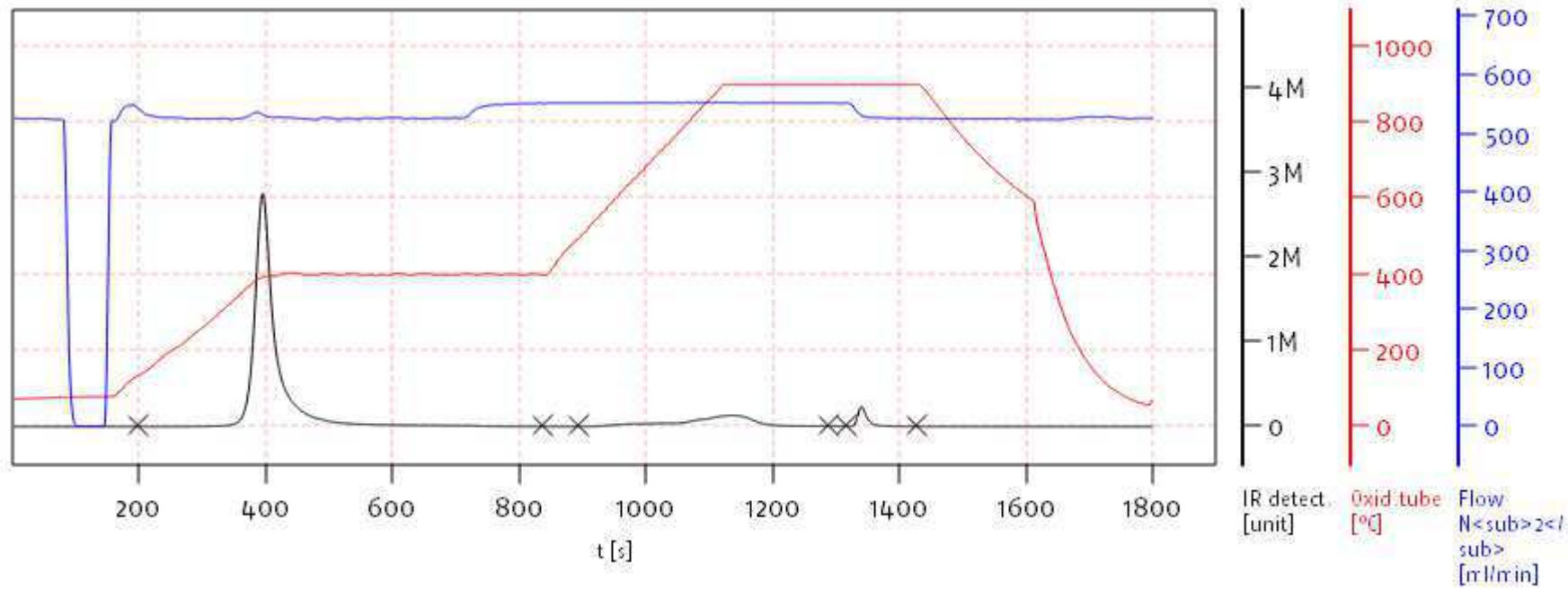
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
36	36	22K0399-06RE1	253.90		CARBON	12/13/2022 2:56 AM	bl	2.323	3 935 637	2.697	0.080	157 290	639 836	2.243	0.374	0.9411	1.0000



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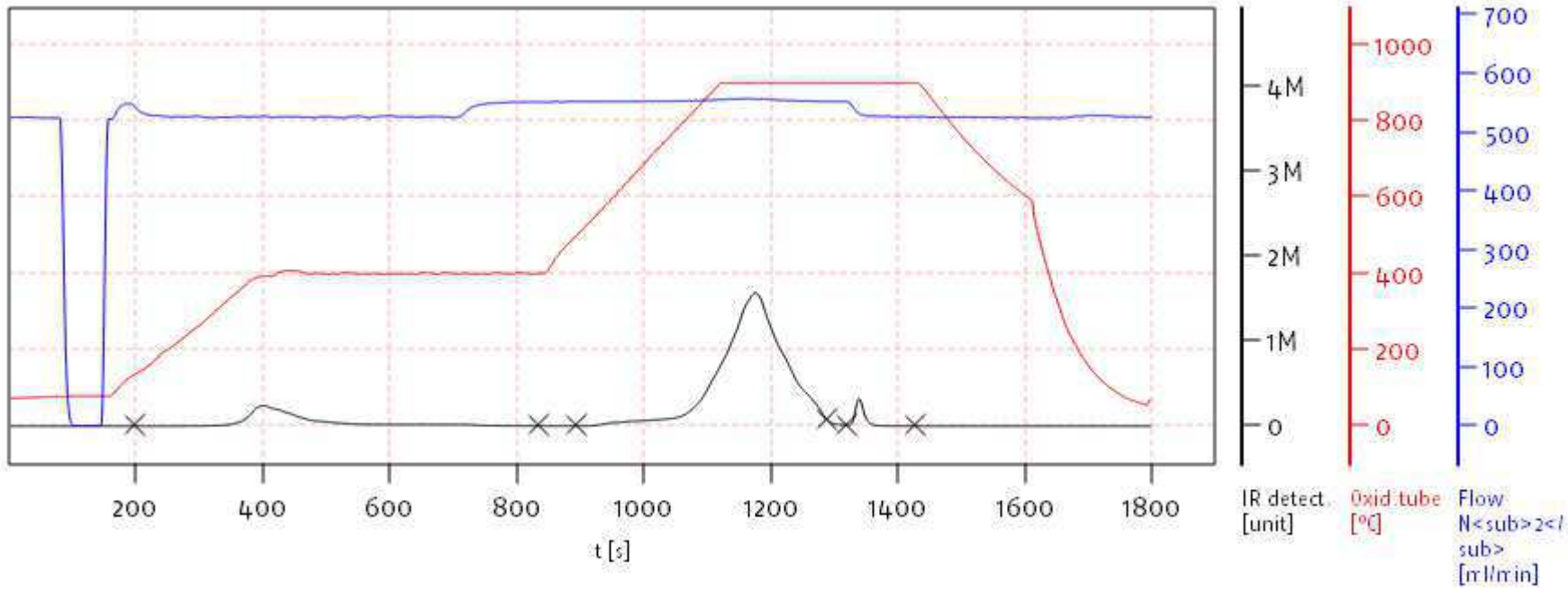
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
37	37	22K0399-07RE1	209.60		CARBON	12/13/2022 3:26 AM	bl	0.766	946 104	5.657	0.126	197 652	6 649 996	0.639	4.892	0.9411	1.0000



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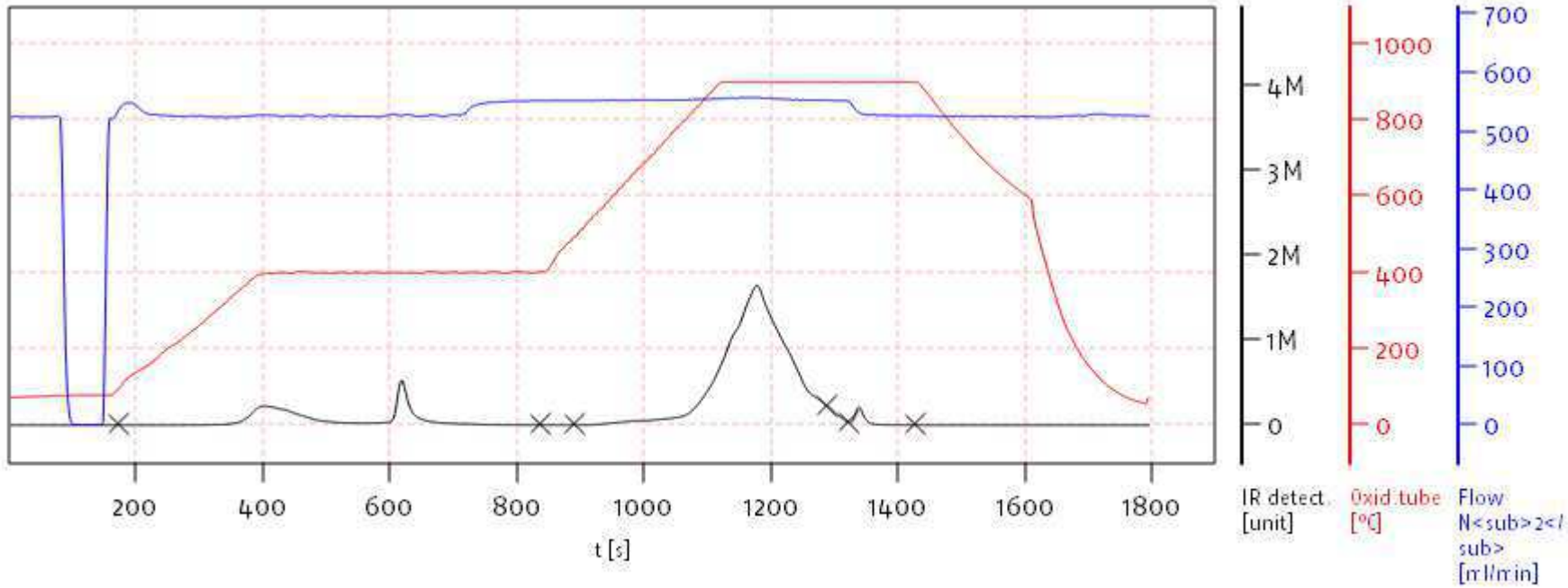
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
38	38	22K0399-09RE1	214.00		CARBON	12/13/2022 3:57 AM	bl	0.993	1 364 916	6.020	0.081	139 161	6 976 495	0.911	5.027	0.9411	1.0000



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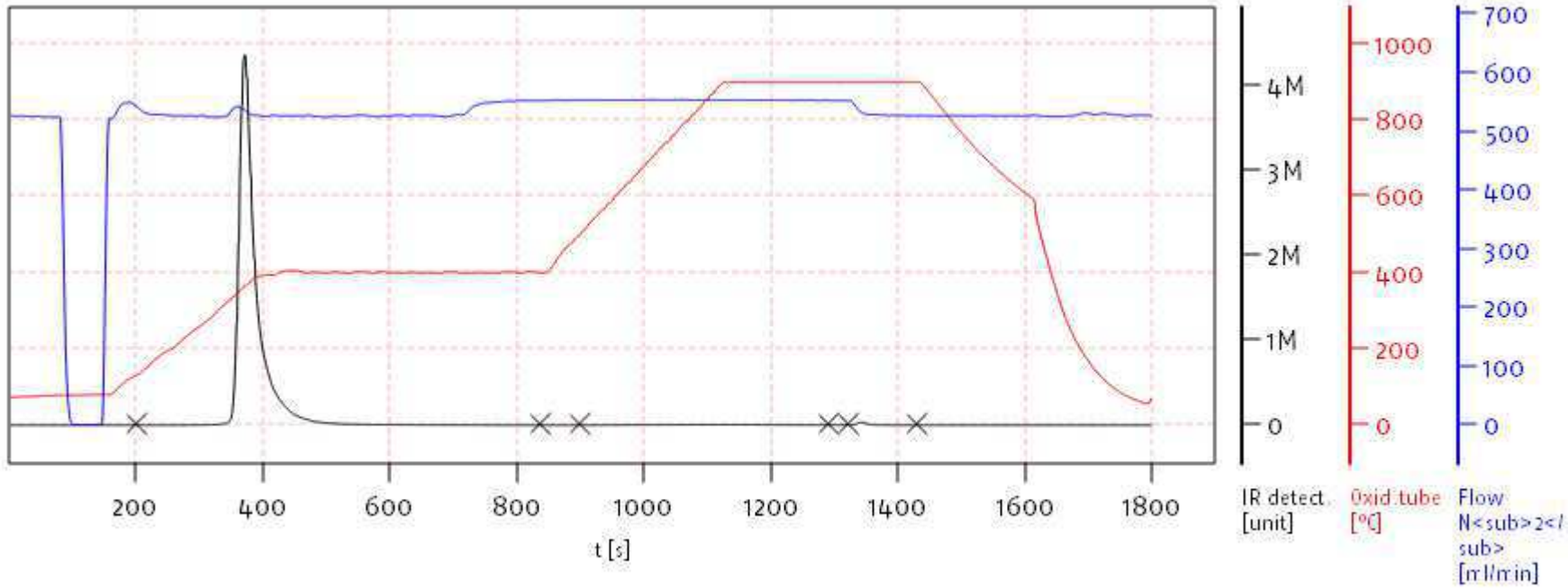
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
39	39	22K0399-11RE1	114.20		CARBON	12/13/2022 4:27 AM	bl	6.417	5 057 111	6.454	0.000	24 419	53 588	6.417	0.037	0.9411	1.0000



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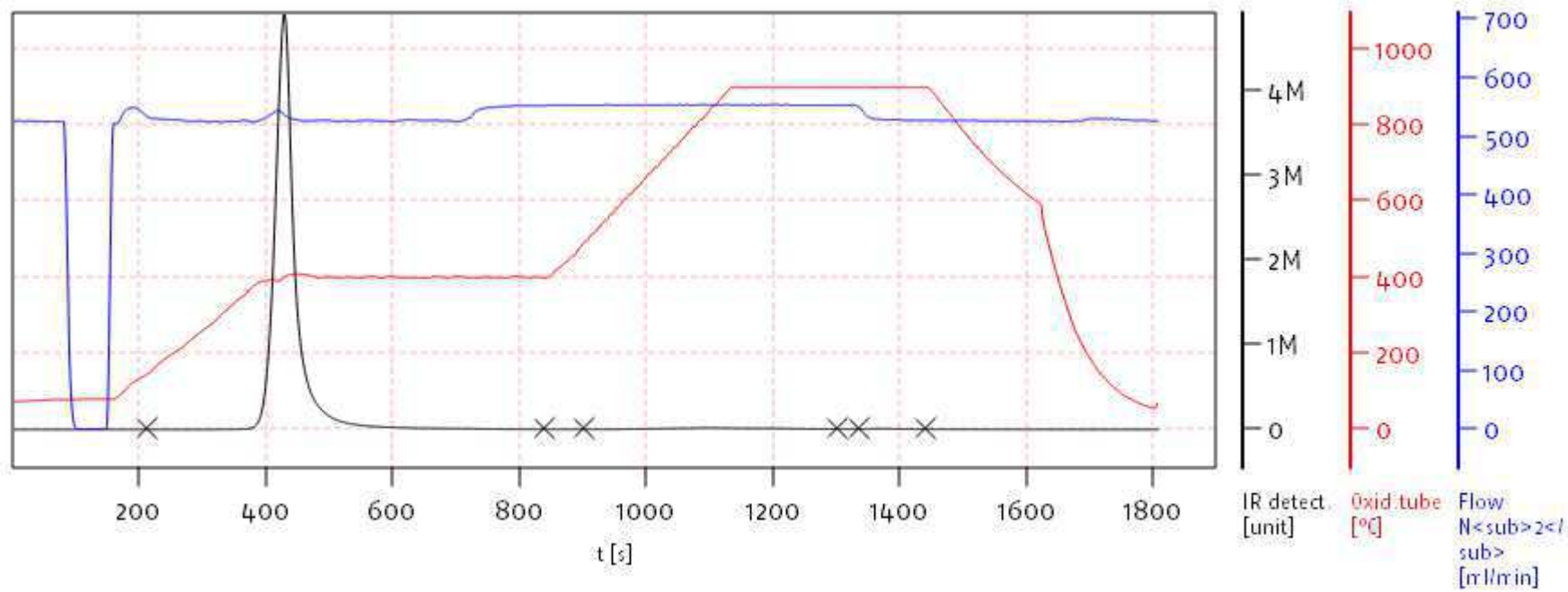
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
40	40	SKL0152-CCV3	22.40		CARBON	12/13/2022 4:57 AM	bl	44.066	6 802 011	44.920	0.000	25 432	150 099	44.066	0.854	0.9411	1.0000



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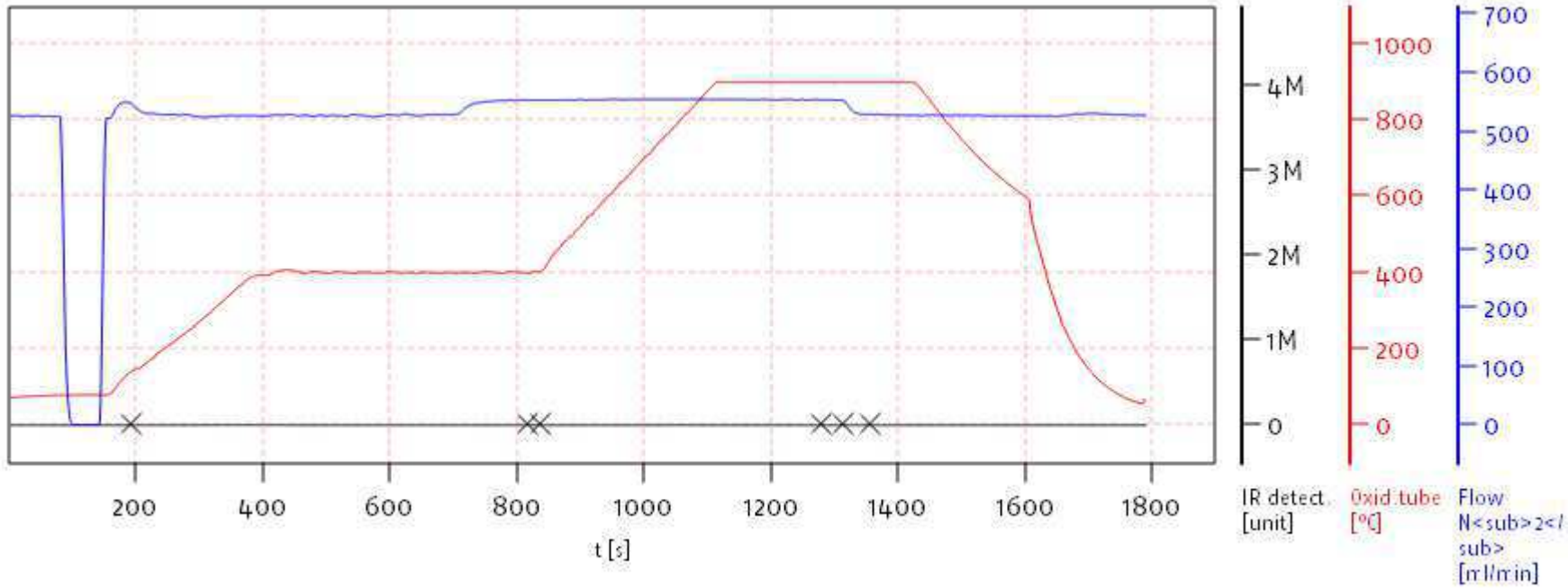
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
41	41	SKL0152-CCB3	512.70		CARBON	12/13/2022 5:28 AM	bl,C2u	0.000	9 397	0.000	0.000	267	2 995	0.000	0.000	0.9411	1.0000



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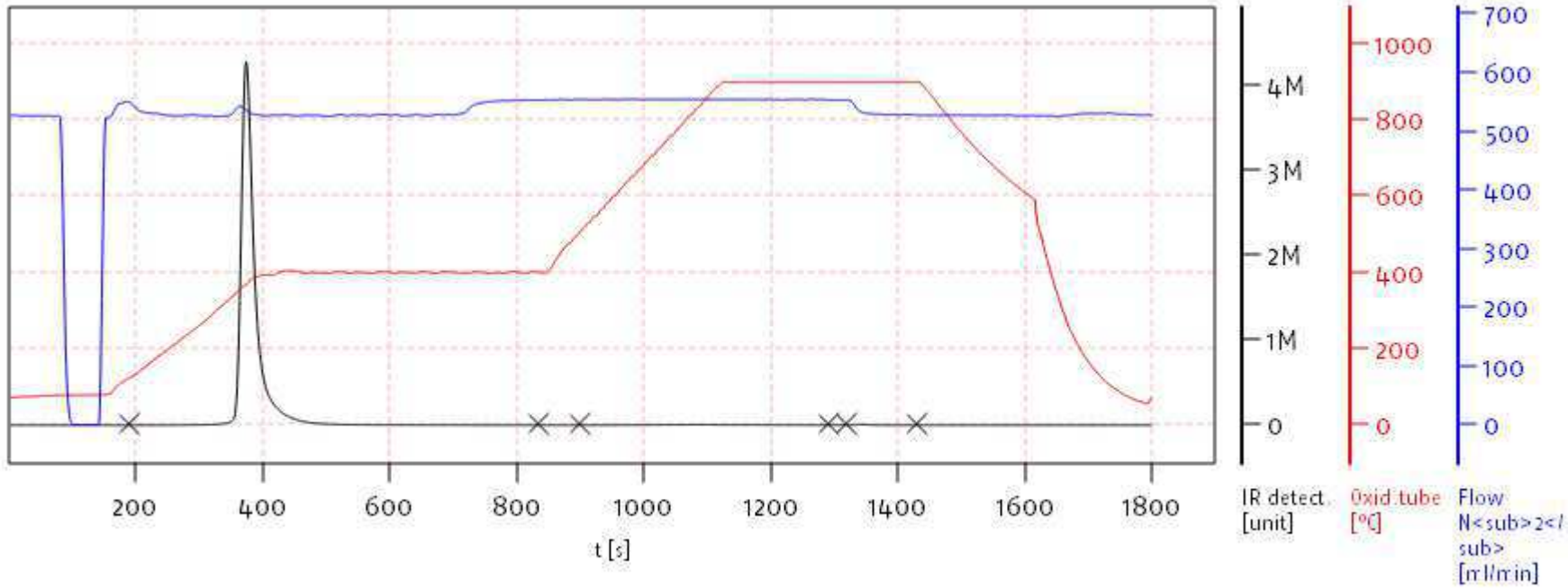
Access: soliTOC superuser

Date: Fri Dec 16 09:43:23 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
42	42	22K0399-19RE1	91.20		CARBON	12/13/2022 5:58 AM	bl	6.432	4 052 944	6.460	0.000	8 496	42 928	6.432	0.028	0.9411	1.0000



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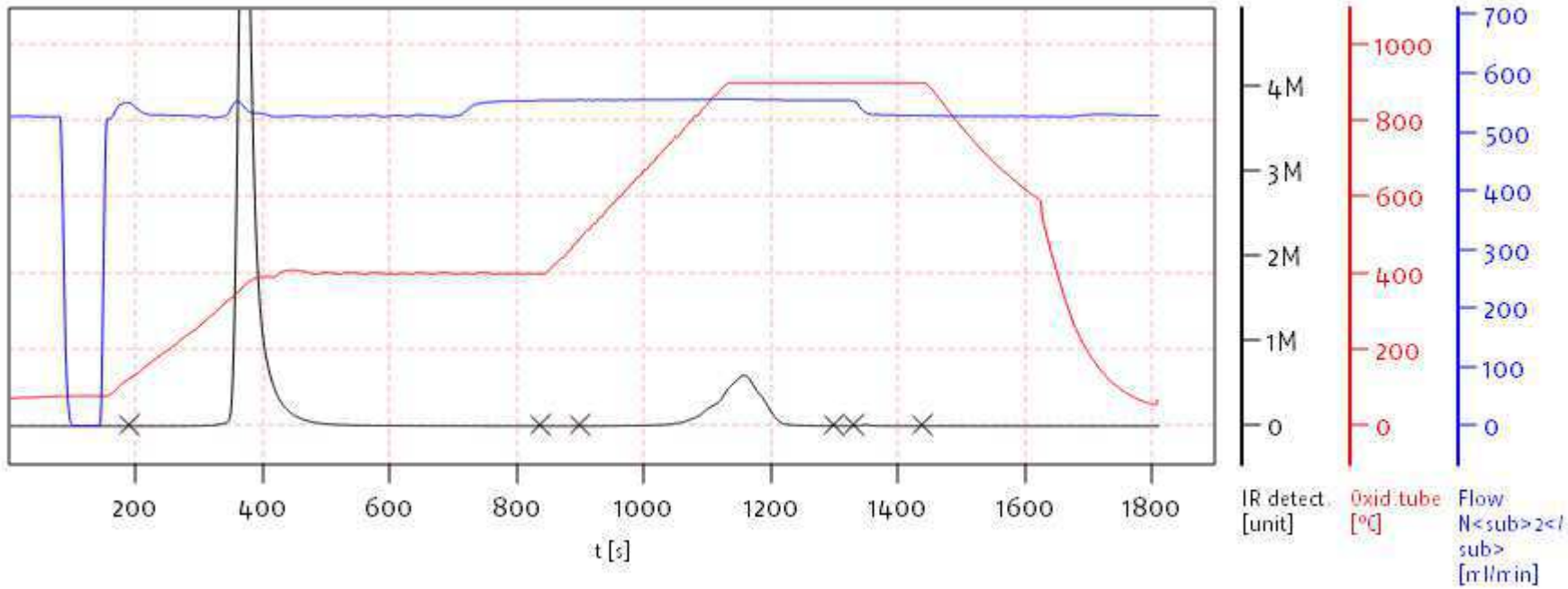
Date: Fri Dec 16 09:43:23 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
43	43	22K0399-22RE1	195.00		CARBON	12/13/2022 6:29 AM	bl	5.918	7 948 561	7.335	0.000	13 399	1 810 269	5.918	1.416	0.9411	1.0000



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Access: soliTOC superuser

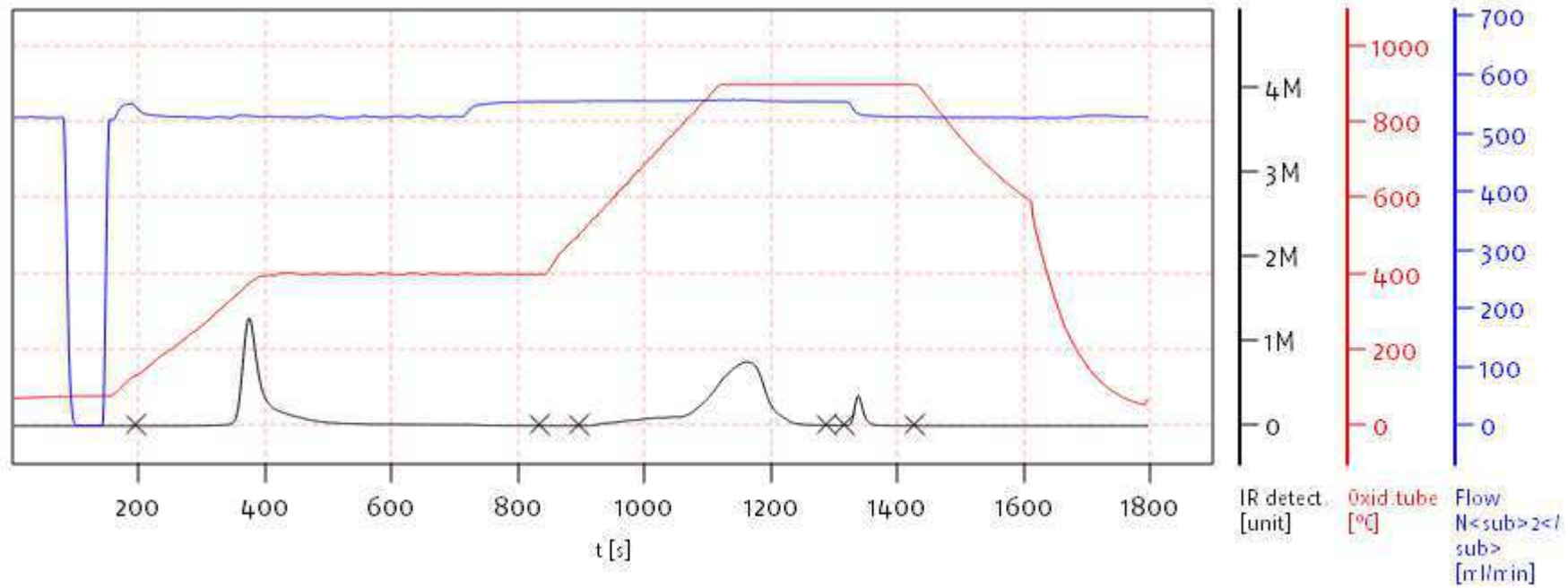
Date: Fri Dec 16 09:43:23 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
44	44	22K0399-24RE1	184.20		CARBON	12/13/2022 6:59 AM	bl	1.691	1 959 436	4.217	0.162	219 741	3 032 263	1.529	2.526	0.9411	1.0000



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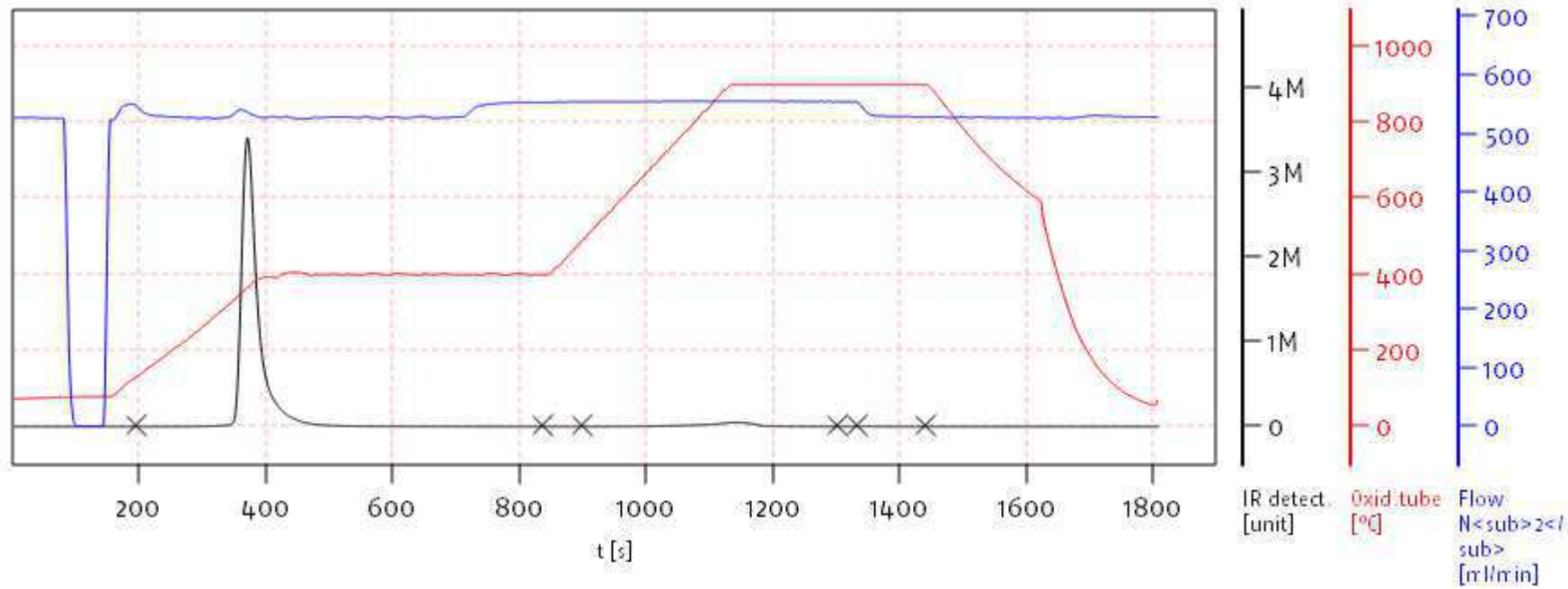
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
45	45	22K0399-25RE1	113.00		CARBON	12/13/2022 7:30 AM	bl	4.953	3 868 061	5.160	0.000	4 296	177 838	4.953	0.207	0.9411	1.0000



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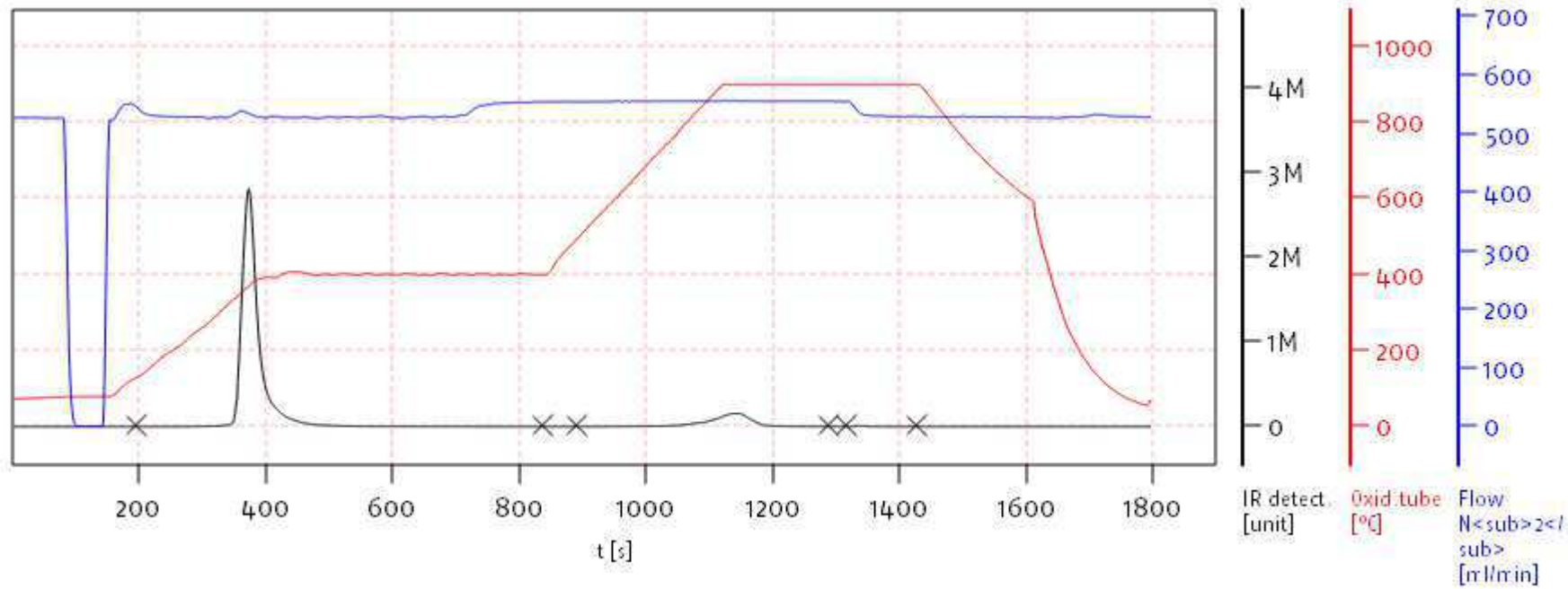
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
46	46	BKL0147-DUP2	101.70		CARBON	12/13/2022 8:00 AM	bl	4.550	3 203 034	5.184	0.000	7 464	442 716	4.550	0.633	0.9411	1.0000



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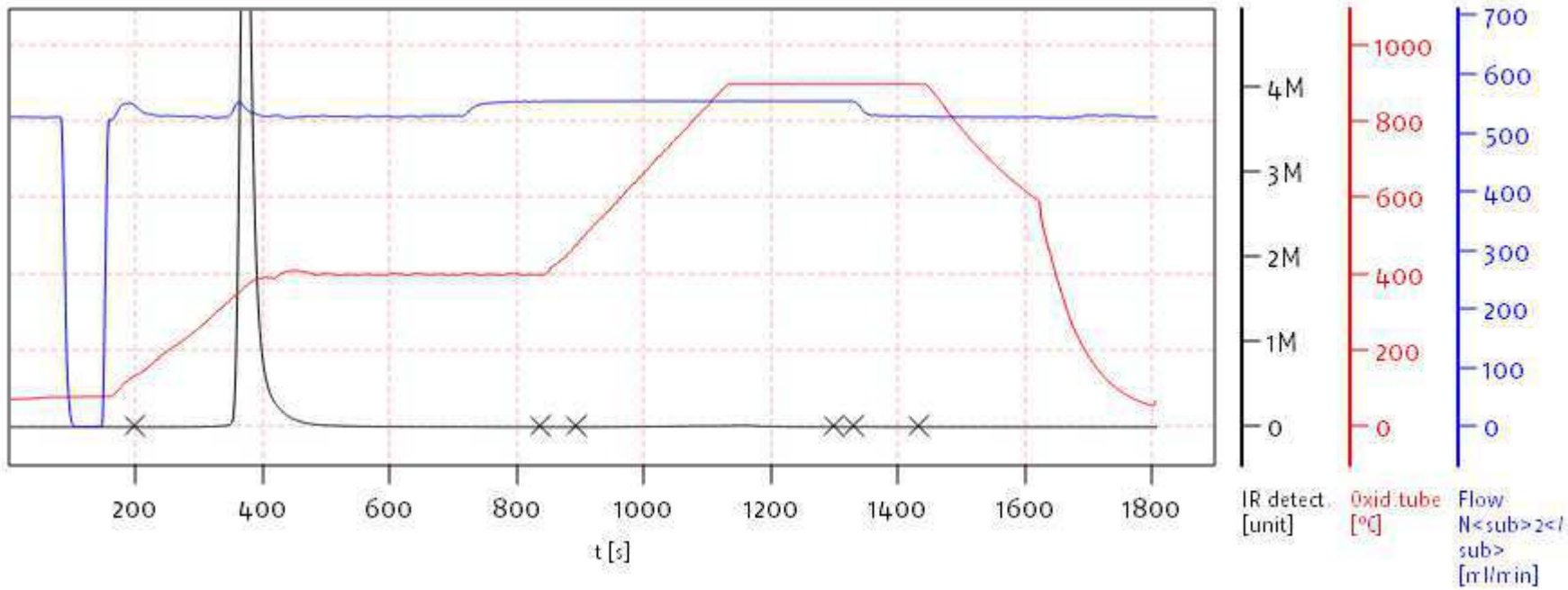
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
47	47	BKL0147-MS2	95.20	0.0106	CARBON	12/13/2022 8:30 AM	bl	10.323	6 772 154	10.442	0.000	3 703	99 644	10.323	0.119	0.9411	1.0000



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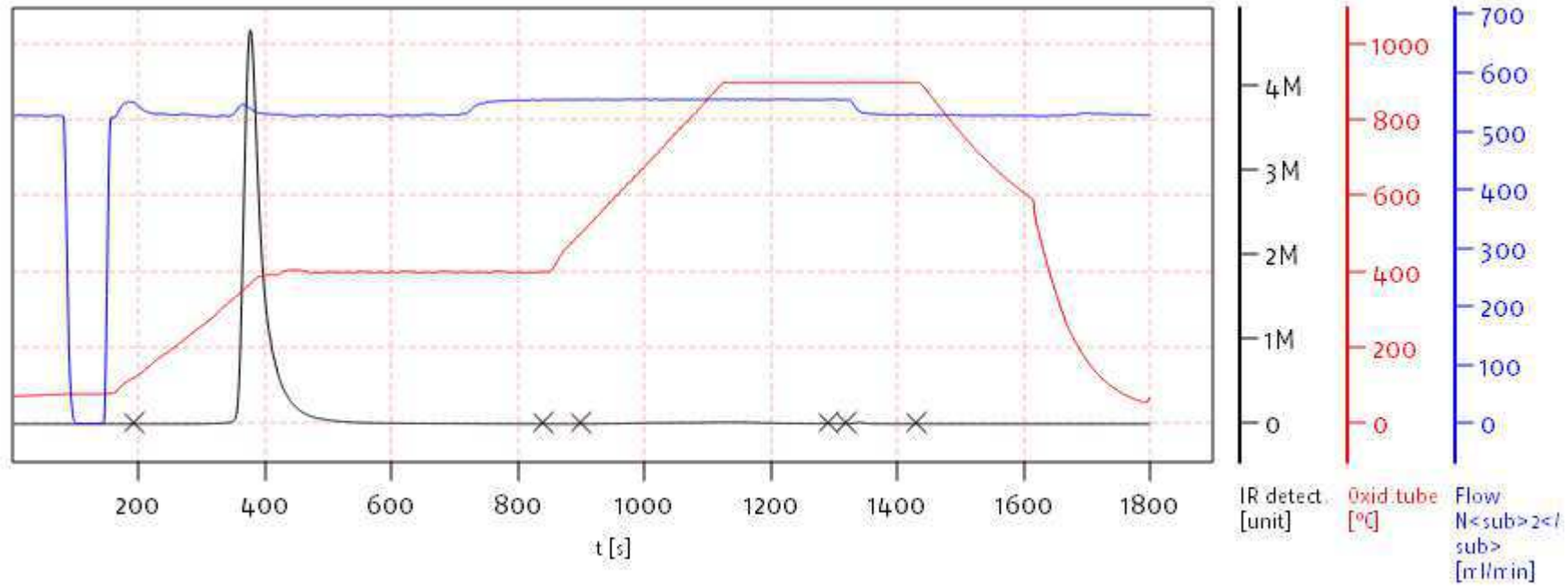
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
48	48	BKL0147-MSD2	97.90	0.0096	CARBON	12/13/2022 9:01 AM	bl	8.995	6 071 376	9.193	0.000	14 293	151 837	8.995	0.198	0.9411	1.0000



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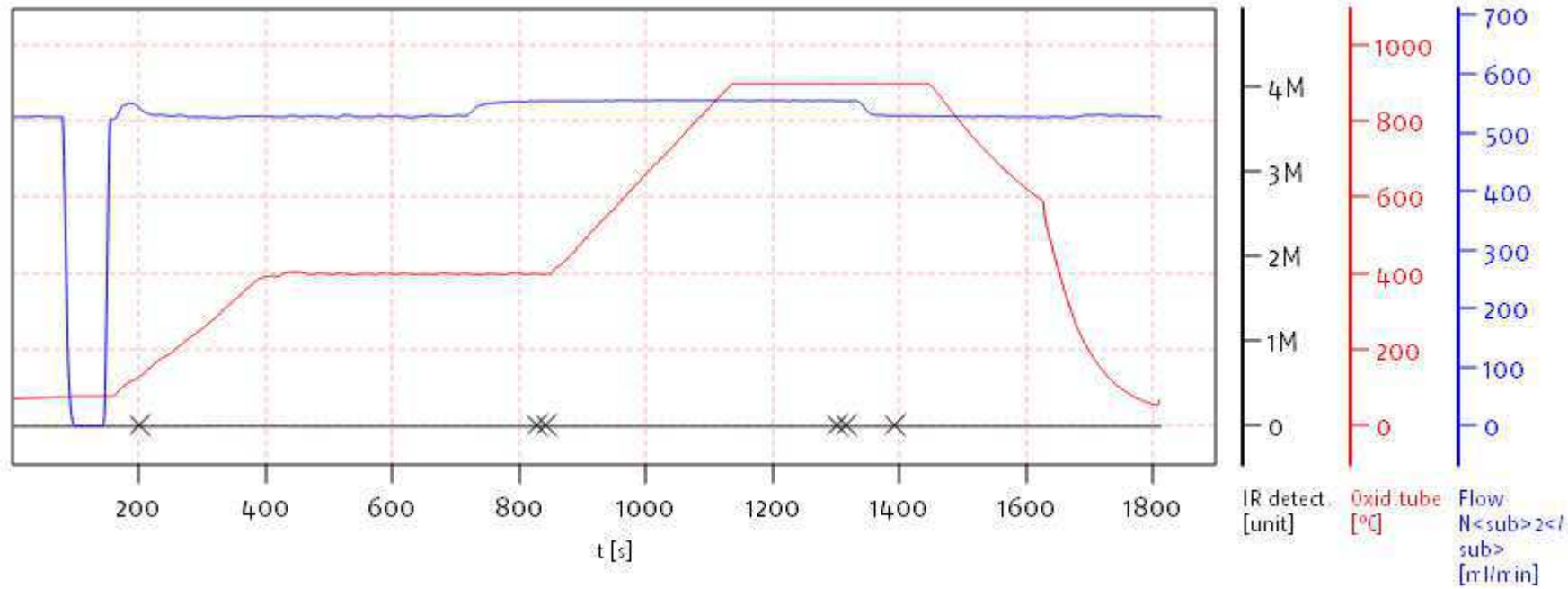
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
49	49	BLANK	1.00		CARBON	12/13/2022 9:31 AM	bl	0.000	8 328	0.000	0.000	206	987	0.000	0.000	0.9411	1.0000



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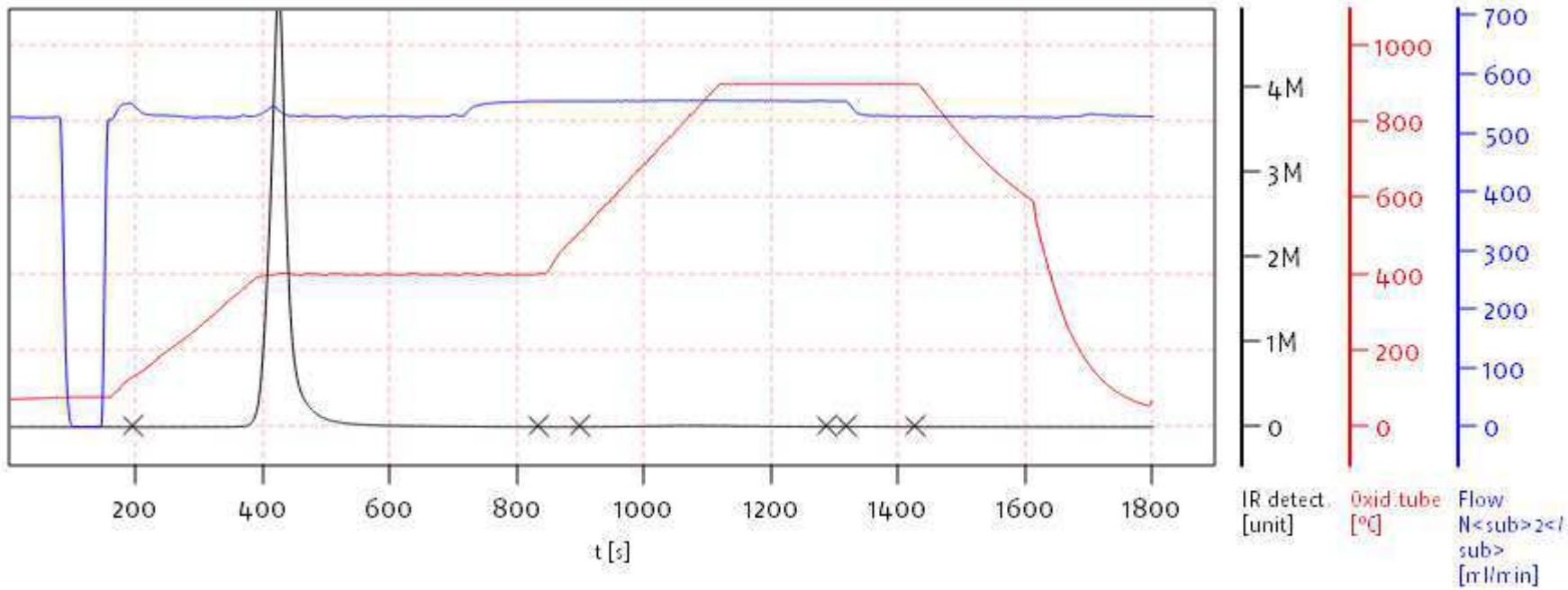
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
50	50	Dfactor	20.20		CARBON	12/13/2022 10:02 AM	bl	44.446	6 237 290	45.222	0.000	14 050	127 836	44.446	0.776	0.9338	1.0000



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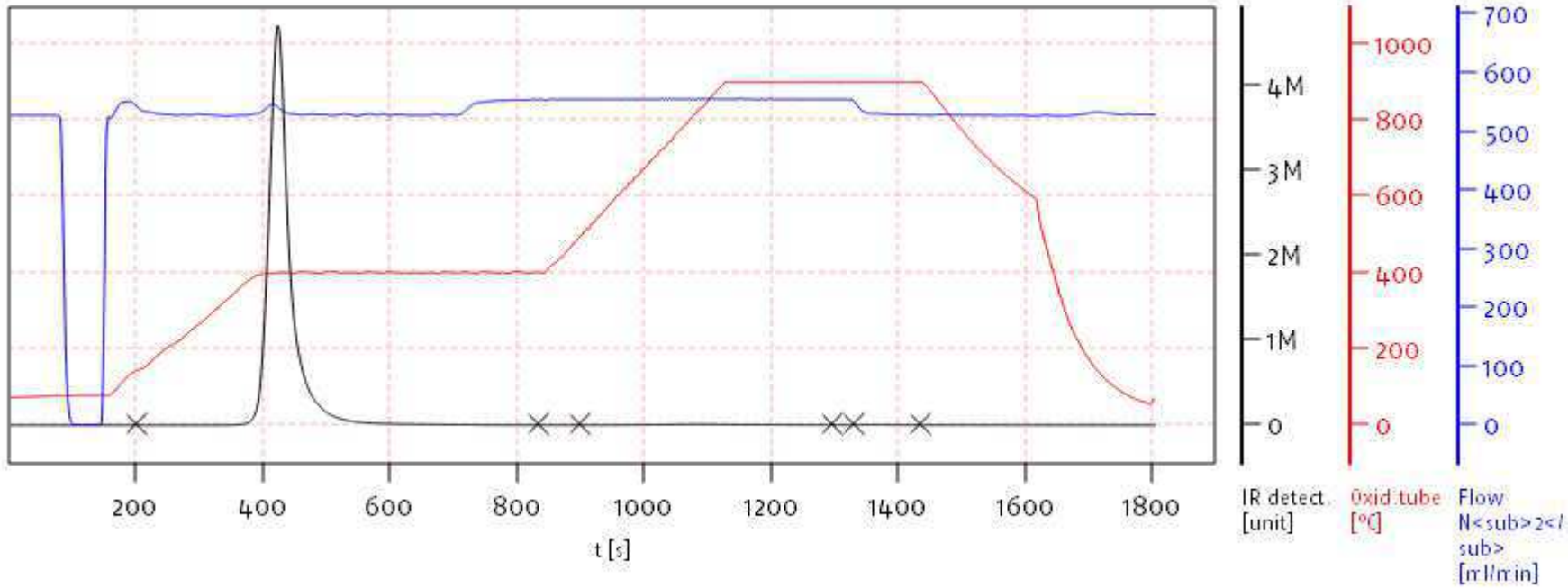
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
51	51	Dfactor	21.80		CARBON	12/13/2022 10:32 AM	bl	44.446	6 815 810	44.809	0.000	13 499	77 749	44.446	0.364	0.9219	1.0000



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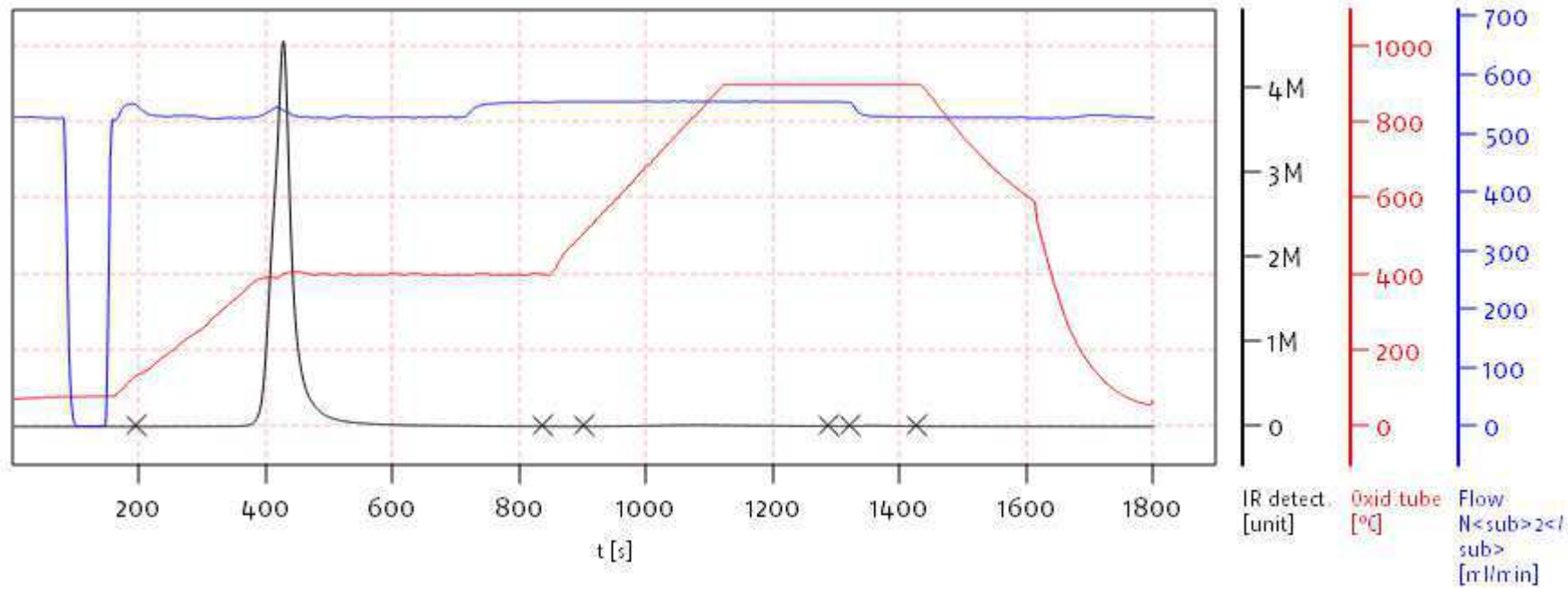
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
52	52	SKL0152-CCV4	20.60		CARBON	12/13/2022 11:03 AM	bl	43.020	6 194 795	43.885	0.011	28 040	141 694	43.008	0.865	0.9279	1.0000



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Balance: BAL3
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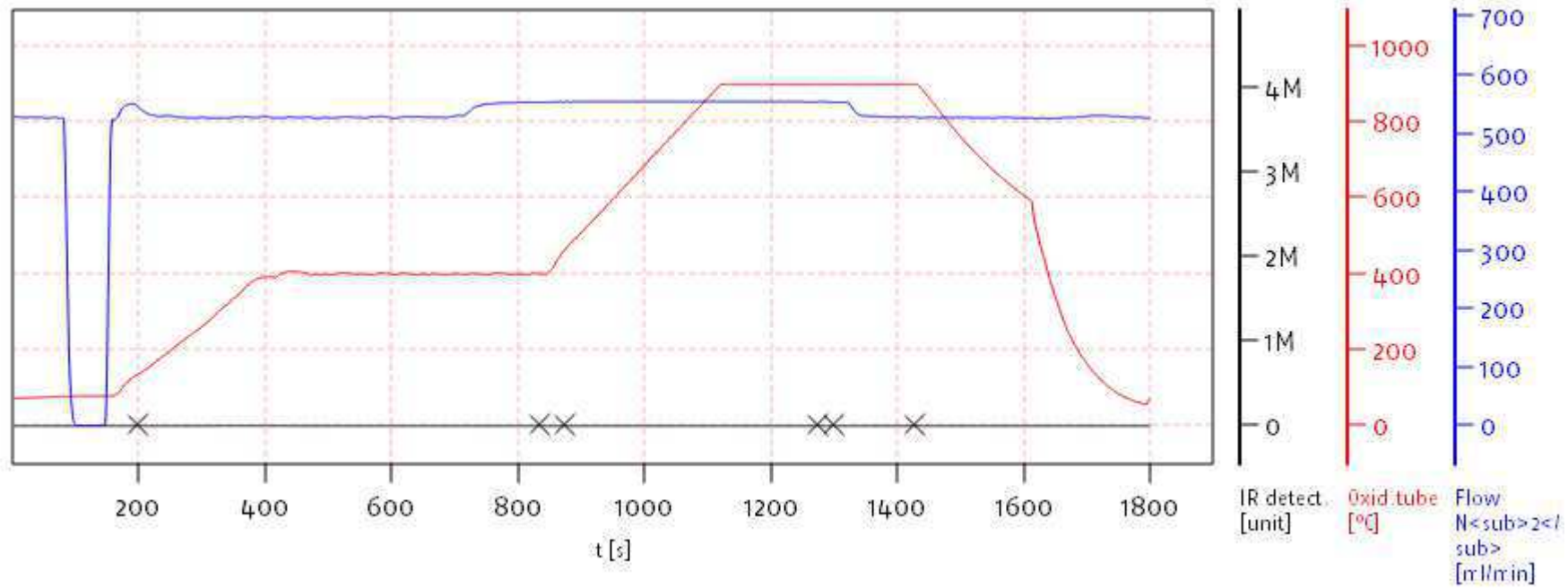
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
53	53	SKL0152-CCB4	501.40		CARBON	12/13/2022 11:33 AM	bl,C3u,C2u	0.000	8 113	0.000	0.000	476	175	0.000	0.000	0.9279	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
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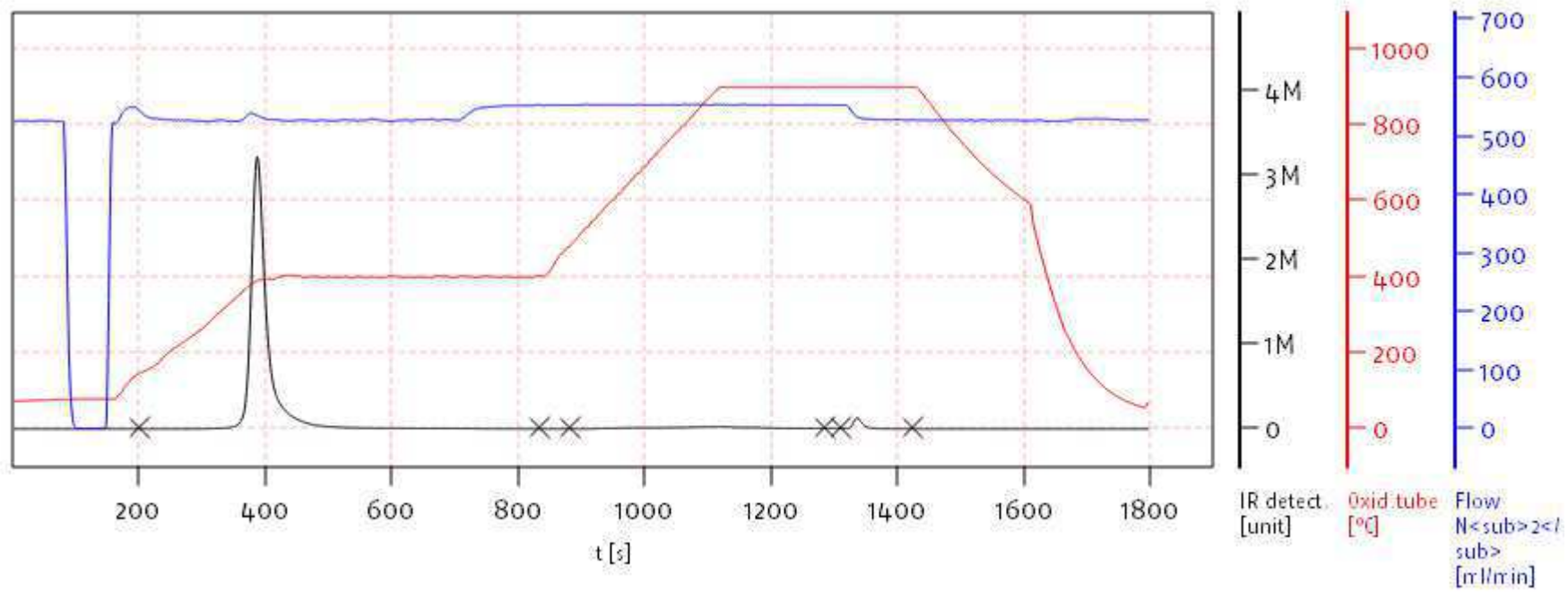
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
54	54	22K0399-32RE1	187.50		CARBON	12/13/2022 12:03 PM	bl	2.717	3 507 793	2.845	0.050	87 080	181 882	2.667	0.128	0.9279	1.0000



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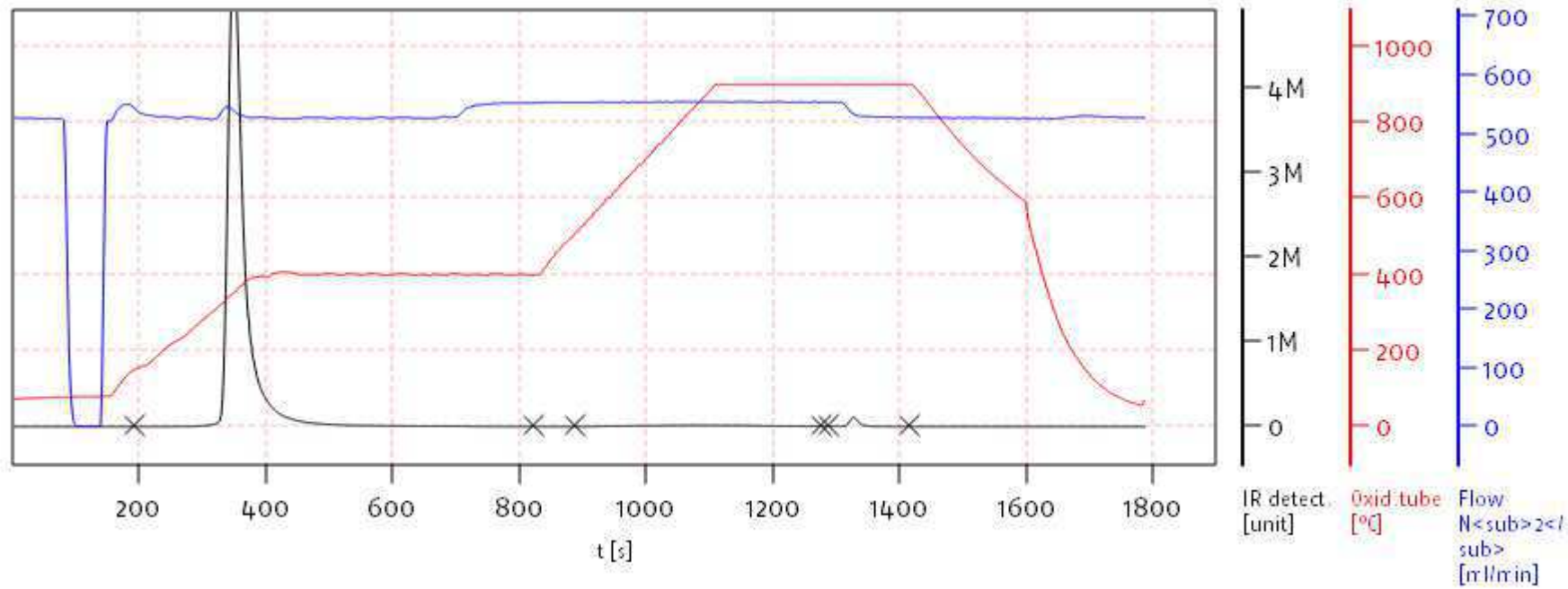
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
55	55	22K0399-40RE1	182.80		CARBON	12/13/2022 12:34 PM	bl	4.886	6 191 655	4.973	0.042	75 618	129 392	4.844	0.087	0.9279	1.0000



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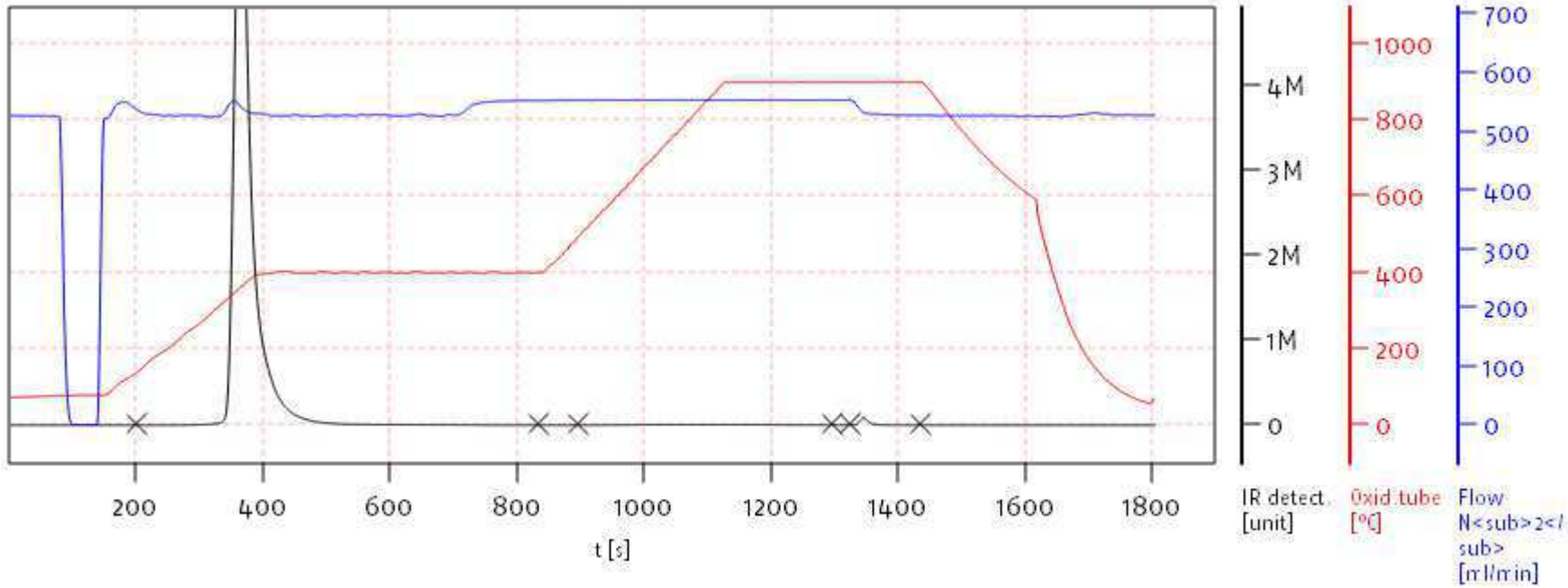
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
56	56	22K0399-41RE1	95.00		CARBON	12/13/2022 1:04 PM	bl	12.247	8 099 185	12.299	0.042	52 172	58 632	12.205	0.052	0.9279	1.0000



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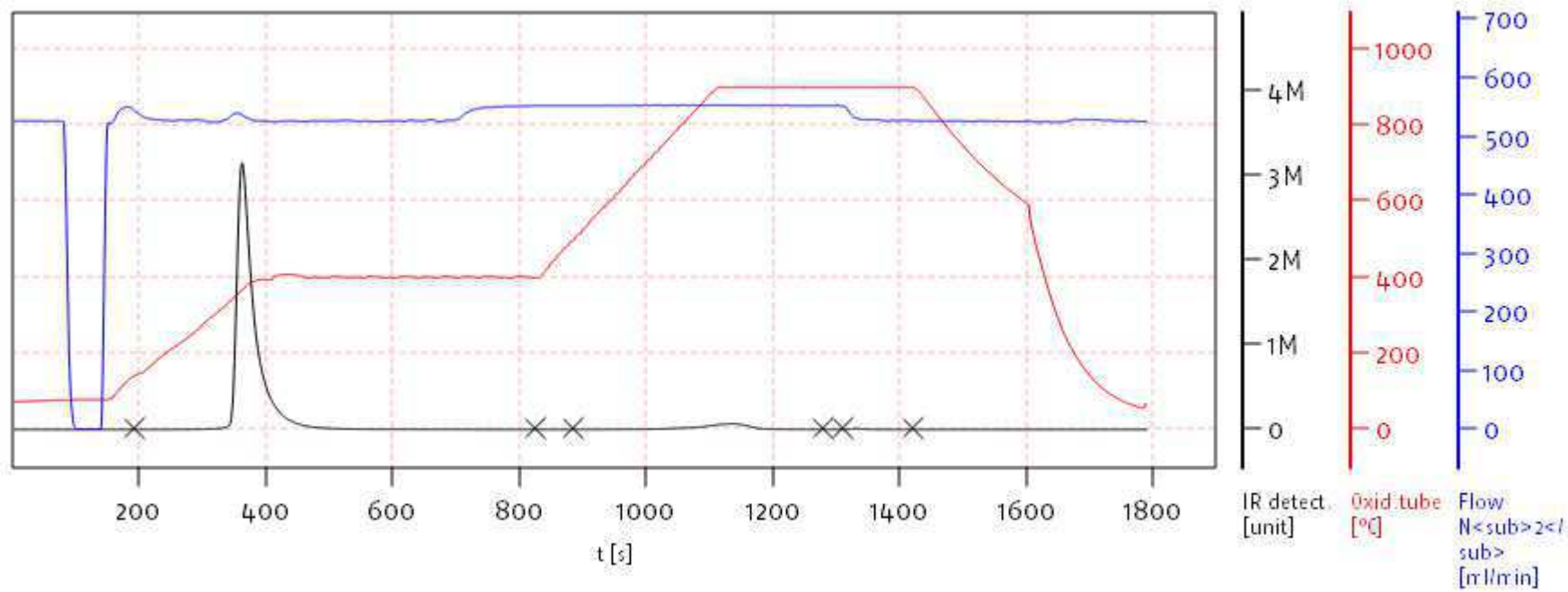
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
57	57	22K0399-44RE1	92.60		CARBON	12/13/2022 1:34 PM	bl	5.887	3 821 678	6.230	0.000	10 629	231 874	5.887	0.343	0.9279	1.0000



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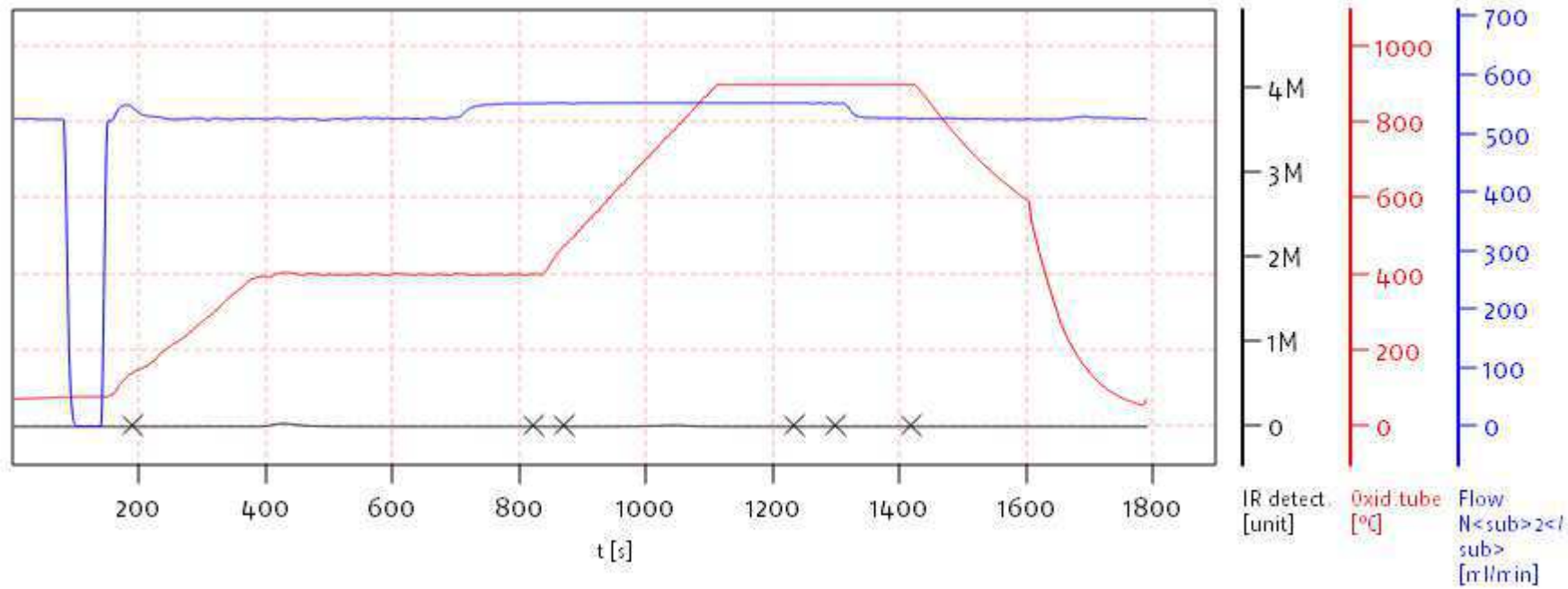
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
58	58	BKL0266-MRL1	500.90		CARBON	12/13/2022 2:05 PM	bl,C2u	0.013	73 336	0.016	0.000	439	35 609	0.013	0.003	0.9279	1.0000



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elementar
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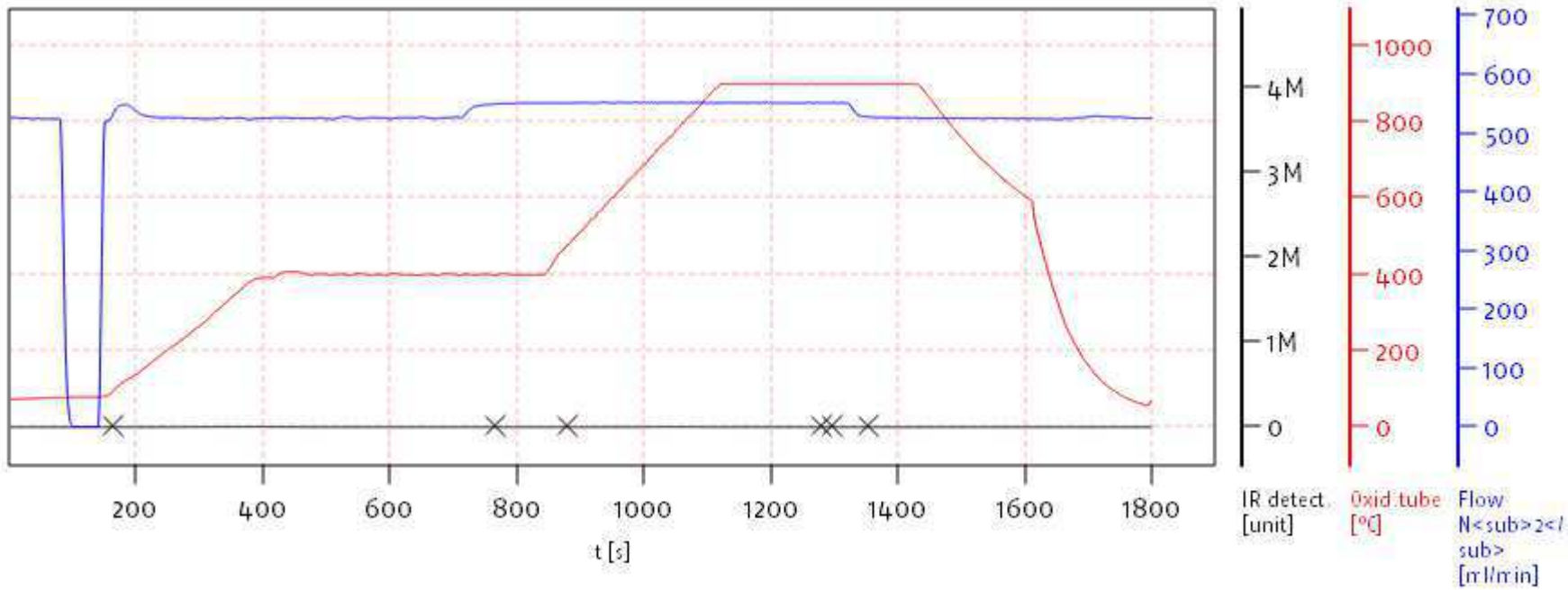
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
59	59	BKL0266-BLK1	503.50		CARBON	12/13/2022 2:35 PM	bl,C2u	0.000	23 606	0.000	0.000	243	11 950	0.000	0.000	0.9279	1.0000



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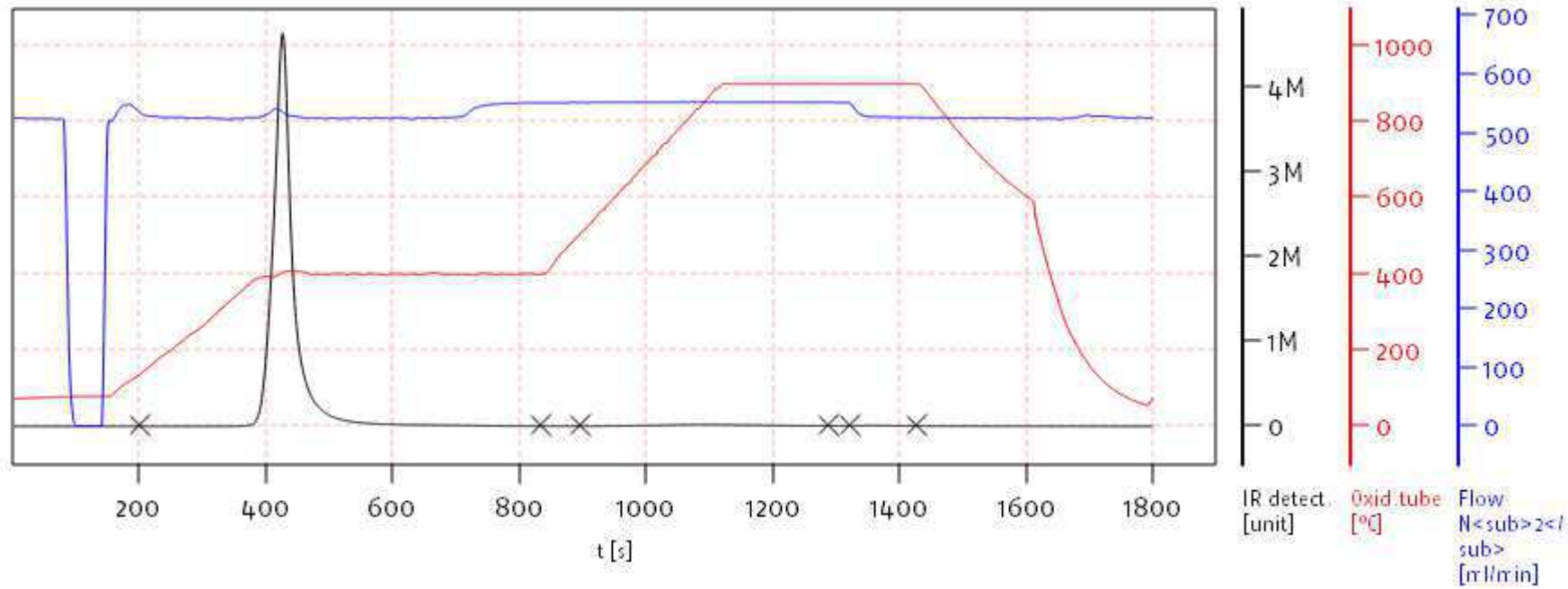
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
60	60	BKL0266-BS1	21.00		CARBON	12/13/2022 3:05 PM	bl	43.001	6 313 418	43.974	0.000	26 142	158 539	43.001	0.973	0.9279	1.0000



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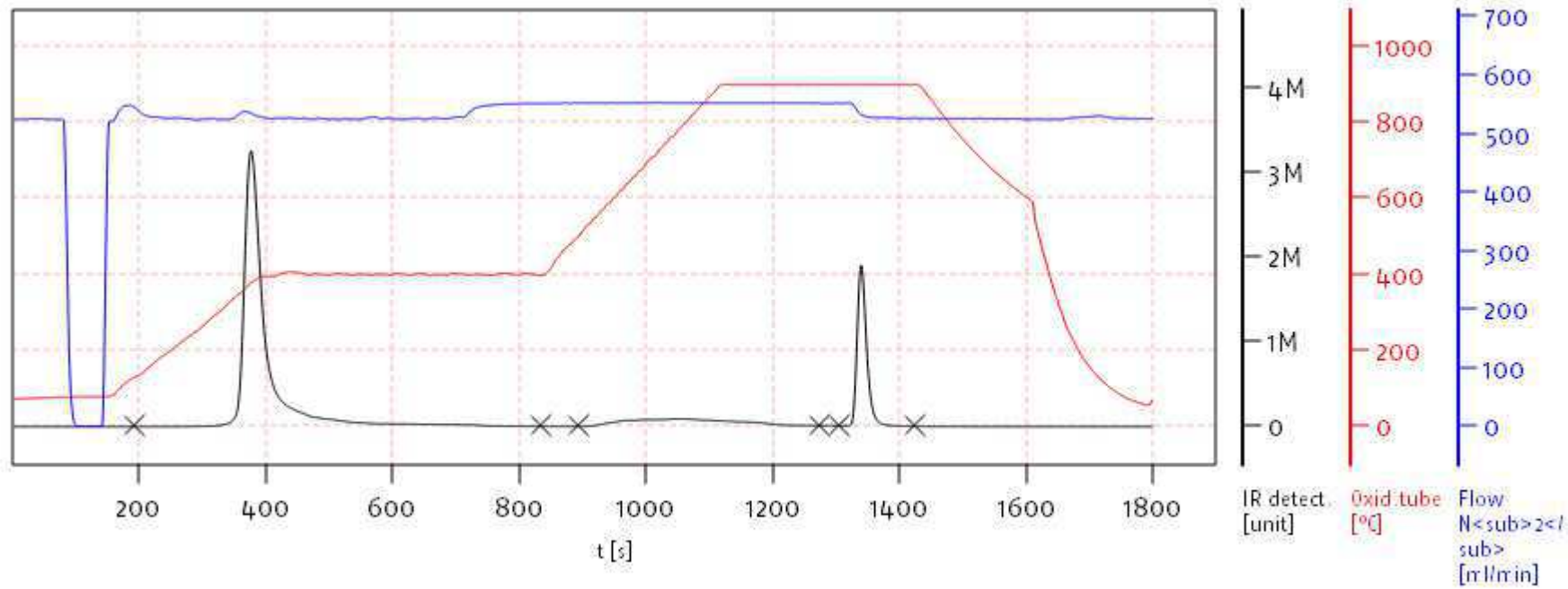
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
61	61	BKL0266-SRM1	293.50		CARBON	12/13/2022 3:36 PM	bl	2.910	4 644 123	3.292	0.650	1 259 513	750 304	2.260	0.382	0.9279	1.0000



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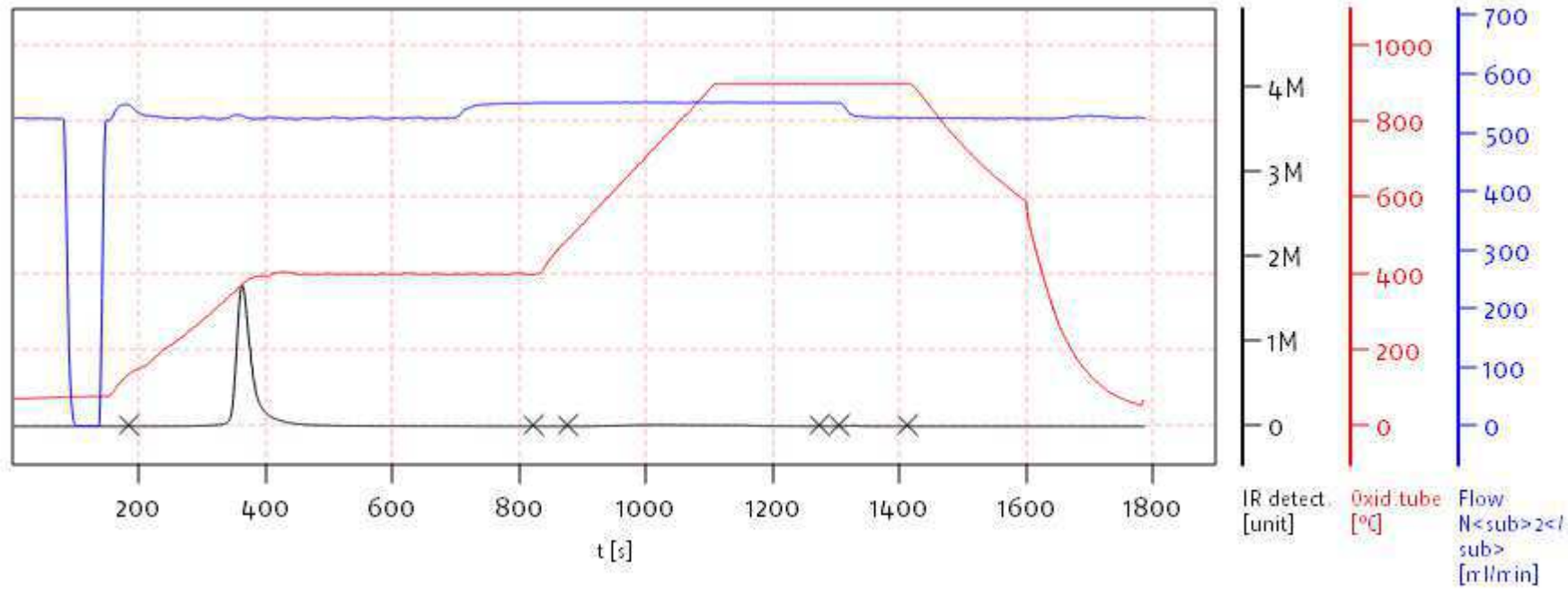
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
62	62	22L0105-01	193.40		CARBON	12/13/2022 4:06 PM	bl	1.359	1 856 443	1.440	0.000	8 254	127 336	1.359	0.081	0.9279	1.0000



Name:

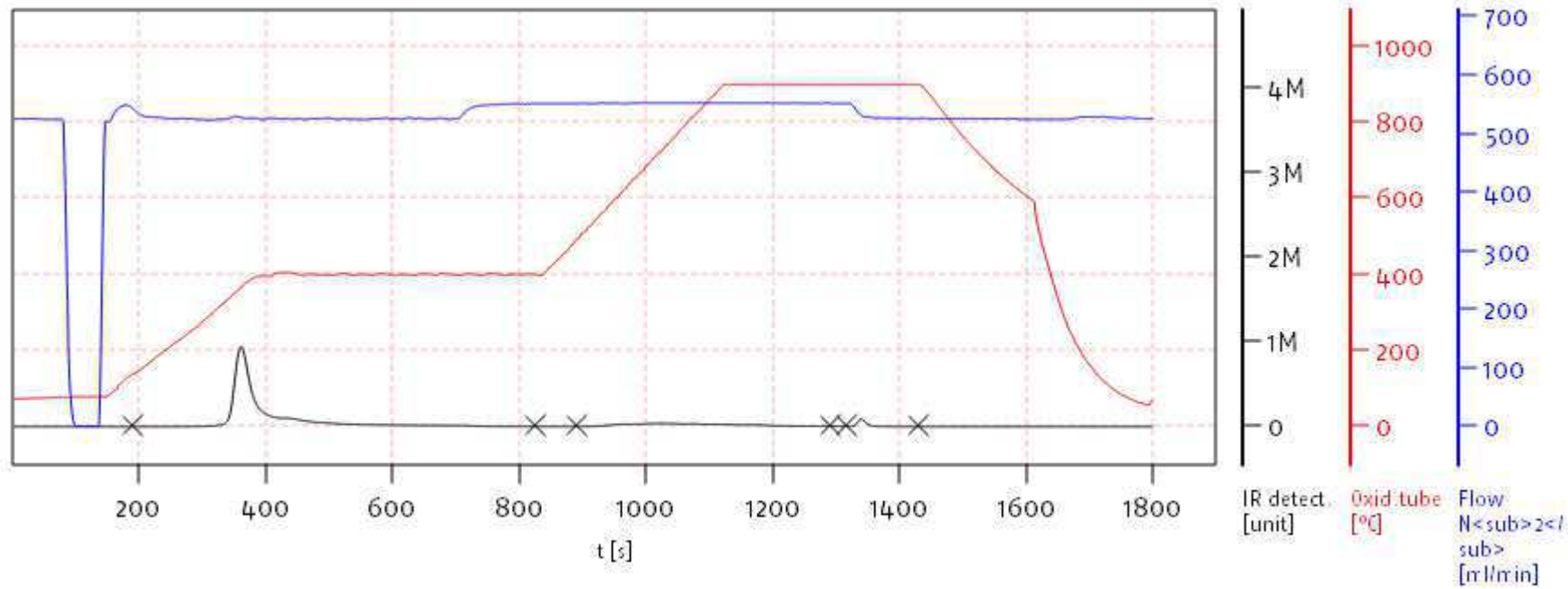
Access: soliTOC superuser

Date: Fri Dec 16 09:43:23 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
63	63	BKL0266-DUP1	198.60		CARBON	12/13/2022 4:36 PM	bl	1.136	1 566 177	1.349	0.022	55 208	300 102	1.114	0.213	0.9279	1.0000



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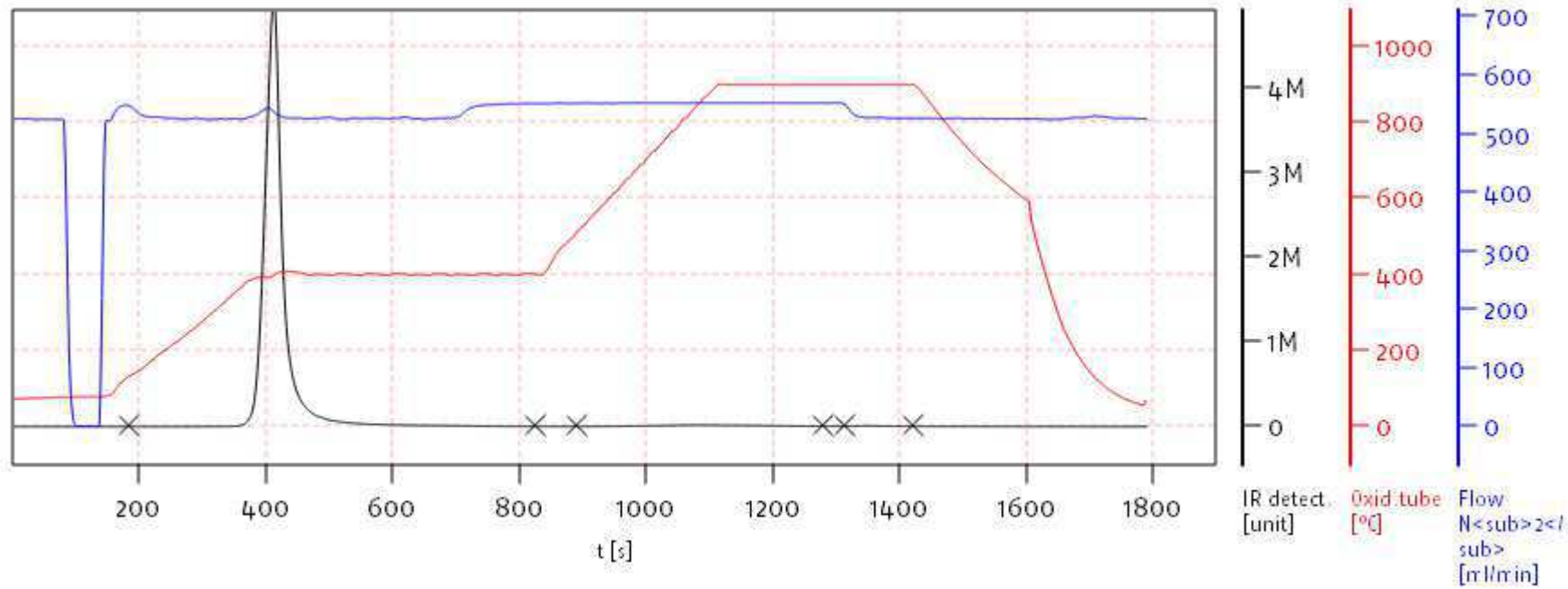
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
64	64	SKL0152-CCV5	21.00		CARBON	12/13/2022 5:07 PM	bl	42.980	6 310 370	43.848	0.000	24 771	144 332	42.980	0.868	0.9279	1.0000



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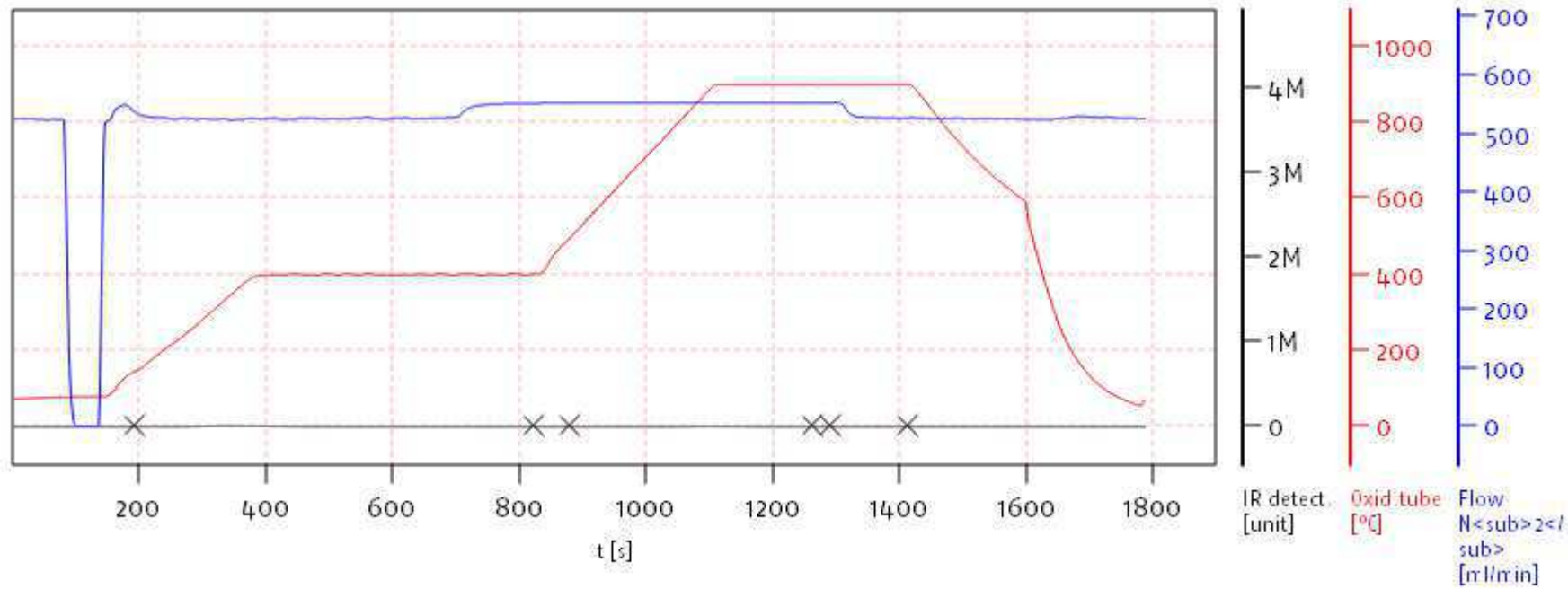
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
65	65	SKL0152-CCB5	522.60		CARBON	12/13/2022 5:37 PM	bl,C2u	0.003	38 996	0.003	0.000	319	9 987	0.003	0.000	0.9279	1.0000



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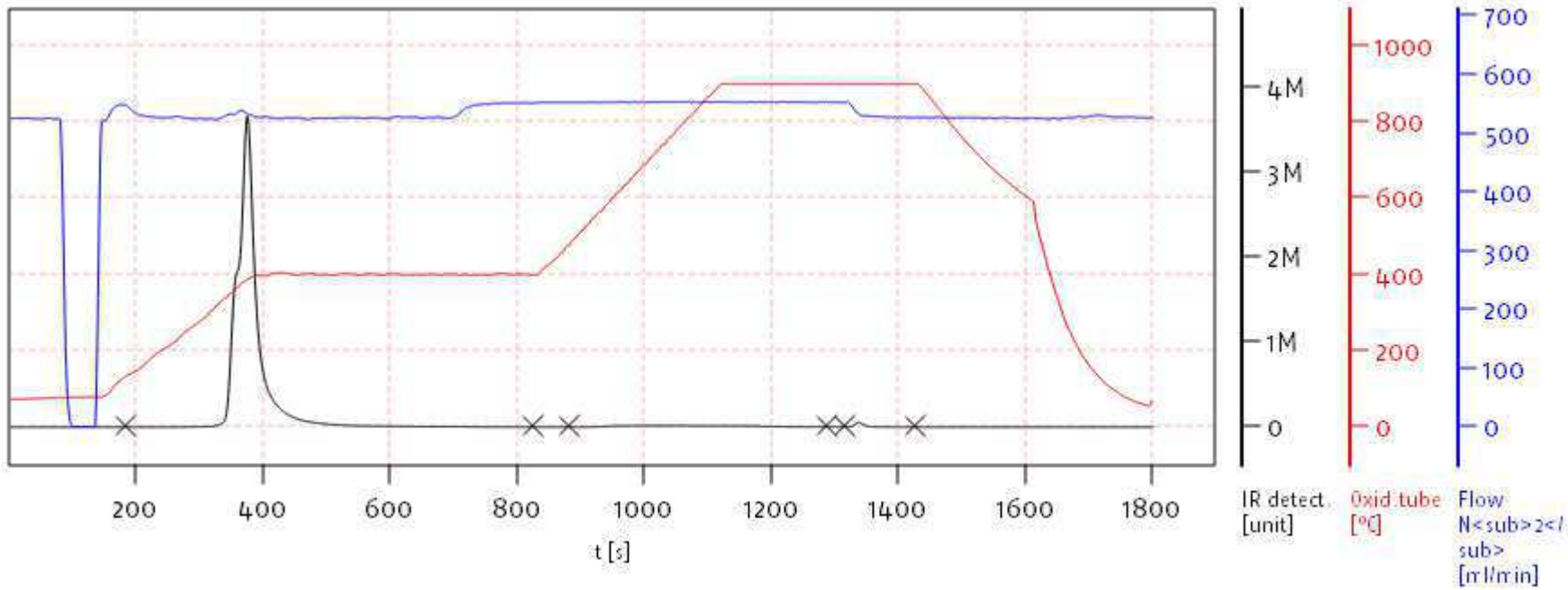
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
66	66	BKL0266-MS1	185.10	0.0100	CARBON	12/13/2022 6:07 PM	bl	3.723	4 813 657	3.833	0.008	36 039	159 030	3.715	0.111	0.9279	1.0000



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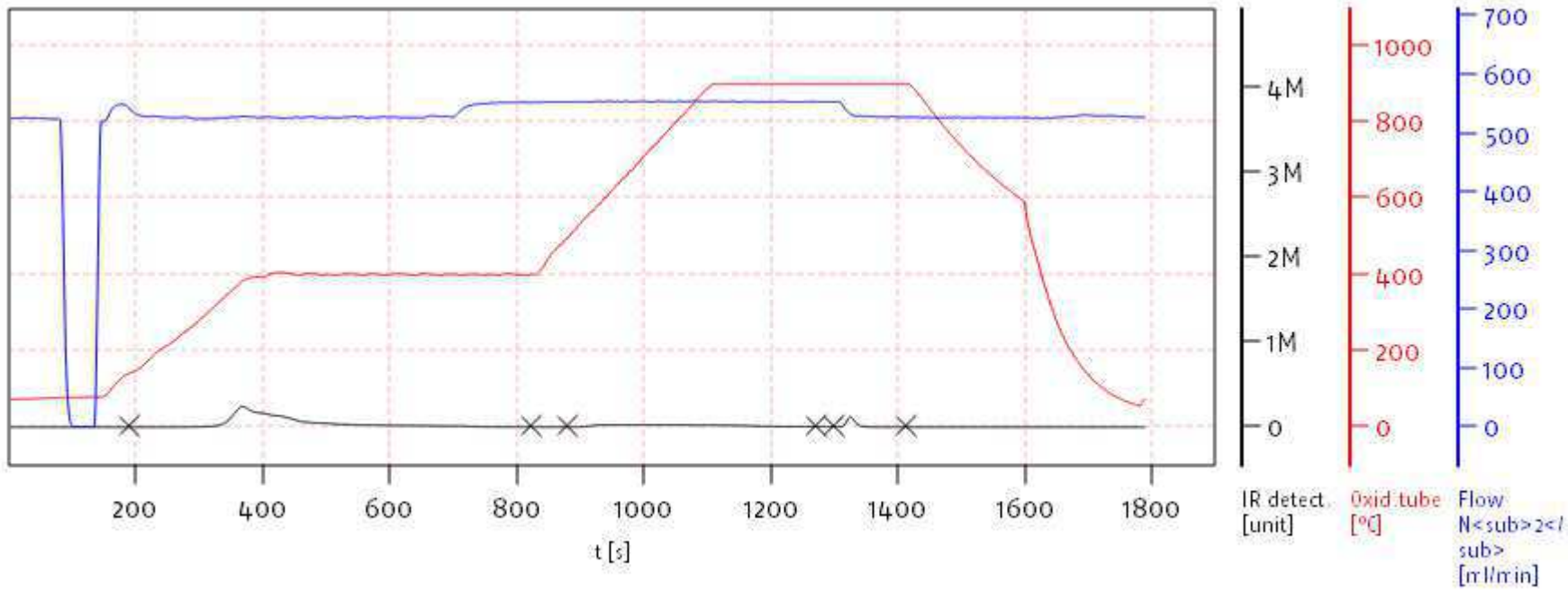
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
67	67	22L0105-02	153.00		CARBON	12/13/2022 6:37 PM	bl	0.914	948 045	1.141	0.049	75 321	250 399	0.865	0.227	0.9279	1.0000



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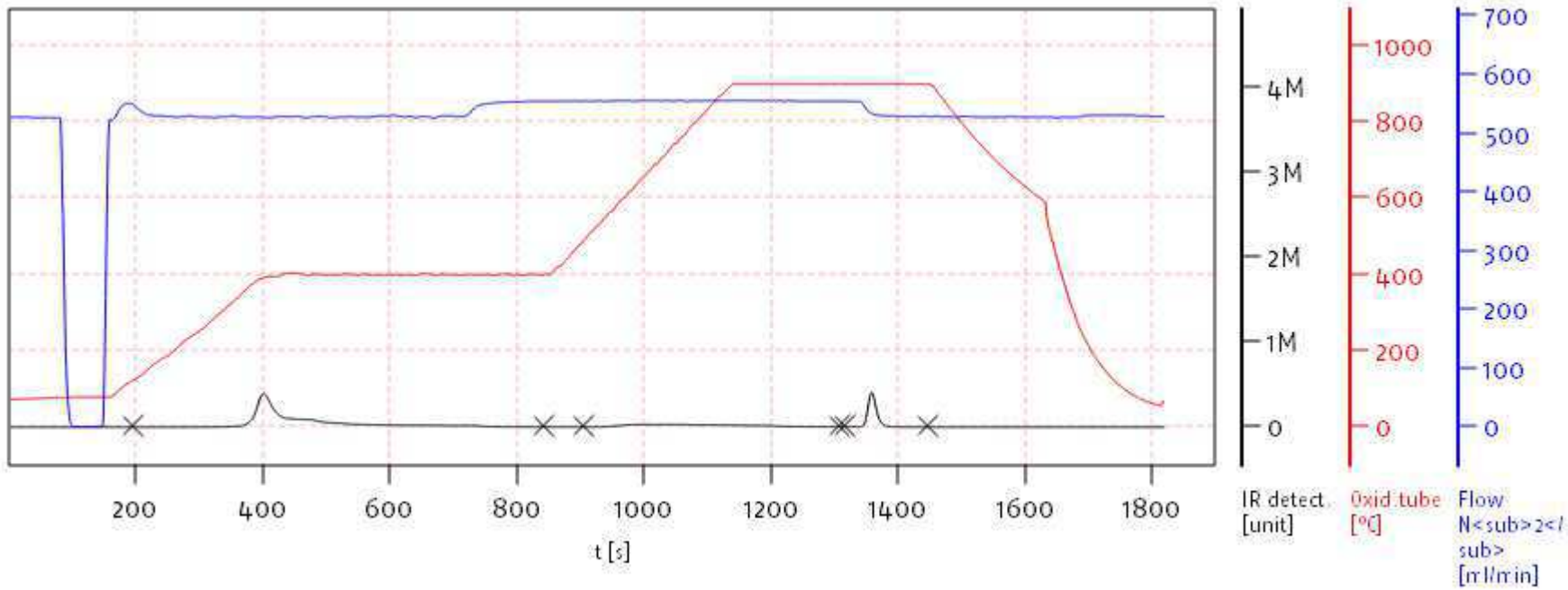
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
68	68	22L0105-03	158.00		CARBON	12/13/2022 7:08 PM	bl	1.054	952 484	1.282	0.212	243 266	259 587	0.842	0.228	0.9279	1.0000



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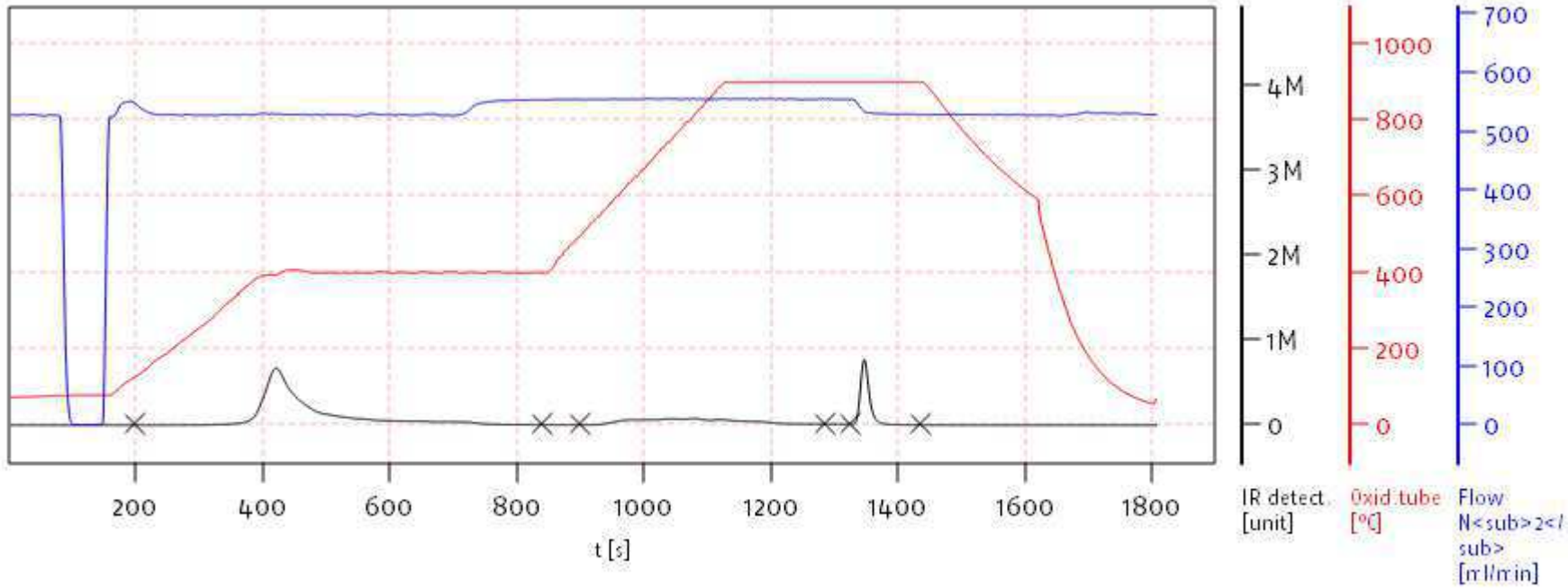
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
69	69	22L0105-04	502.60		CARBON	12/13/2022 7:39 PM	bl	0.725	2 078 009	0.910	0.139	477 100	625 950	0.586	0.185	0.9279	1.0000



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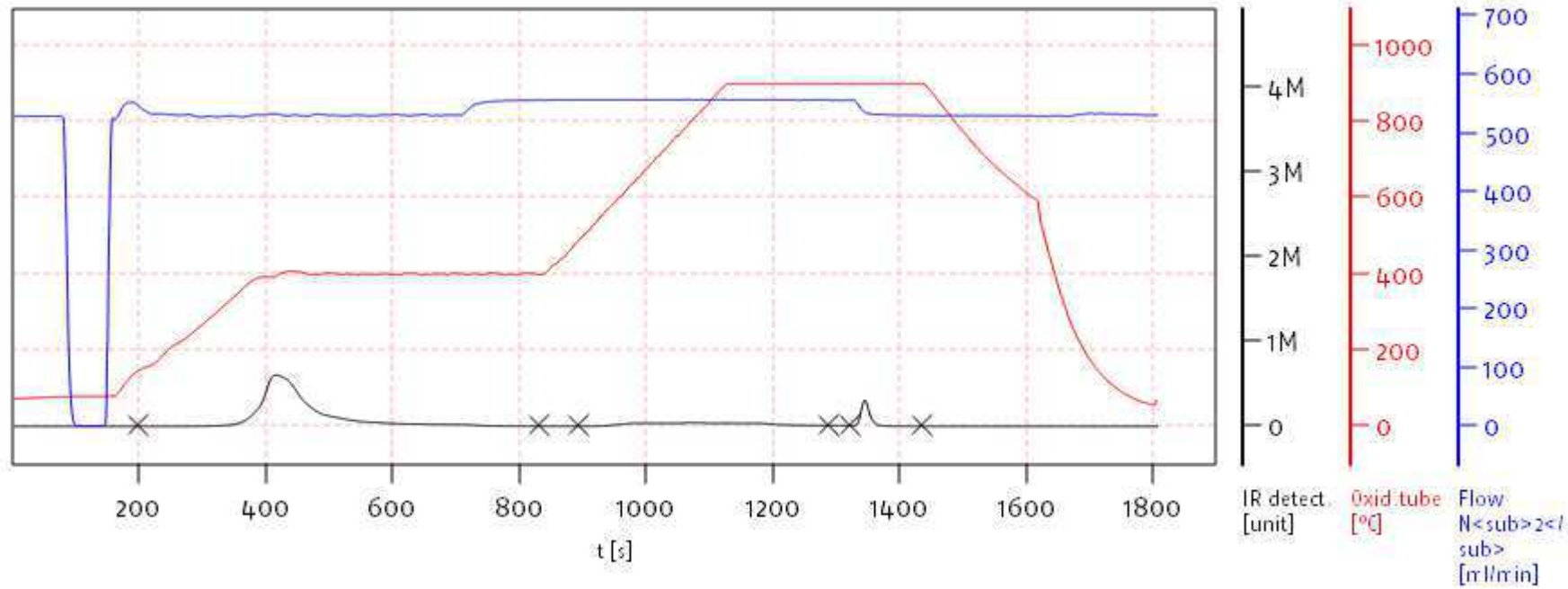
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
70	70	22L0105-05	516.10		CARBON	12/13/2022 8:09 PM	bl	0.621	2 084 158	0.732	0.049	189 293	393 909	0.573	0.110	0.9279	1.0000



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Date: Fri Dec 16 09:43:23 2022

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Serial No: 0300.181017
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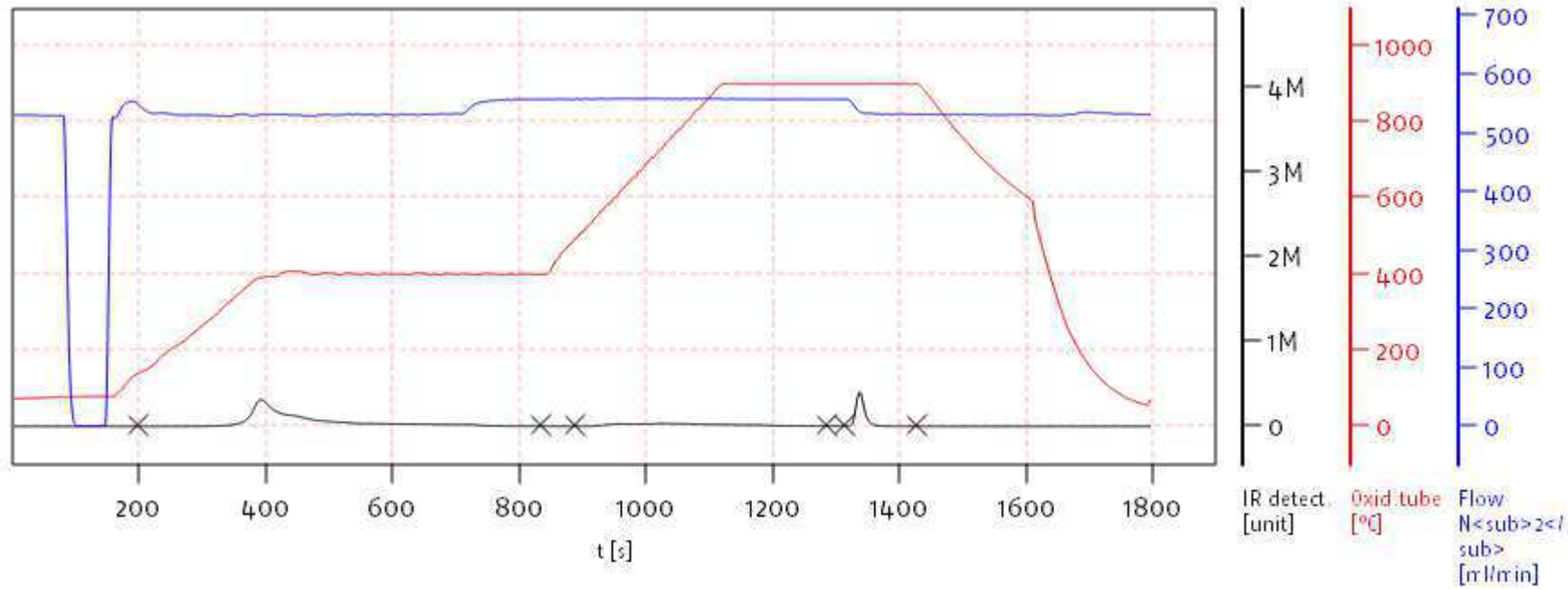
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
71	71	22L0105-06	210.00		CARBON	12/13/2022 8:39 PM	bl	0.864	1 057 629	1.040	0.159	242 577	264 314	0.705	0.175	0.9279	1.0000



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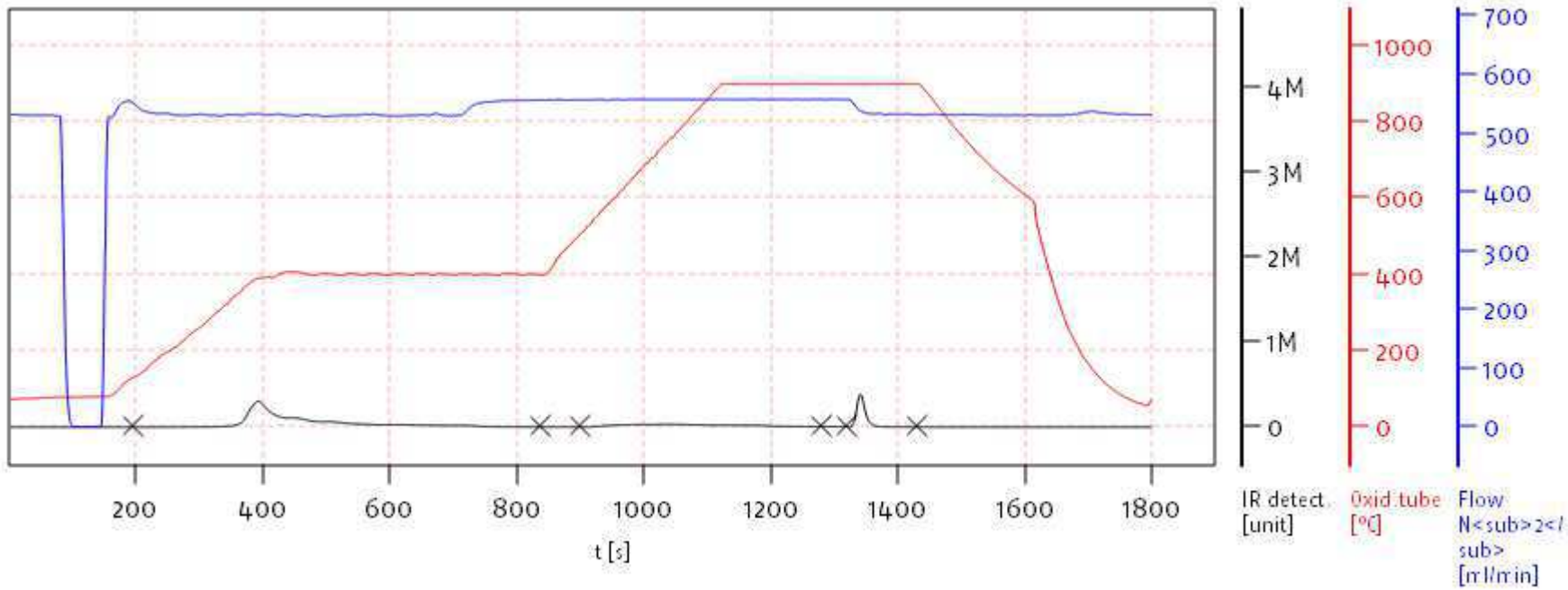
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
72	72	22L0105-07	170.50		CARBON	12/13/2022 9:10 PM	bl	1.011	1 005 427	1.239	0.187	232 322	276 882	0.825	0.227	0.9279	1.0000



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Soli TOC Cube, Carbon
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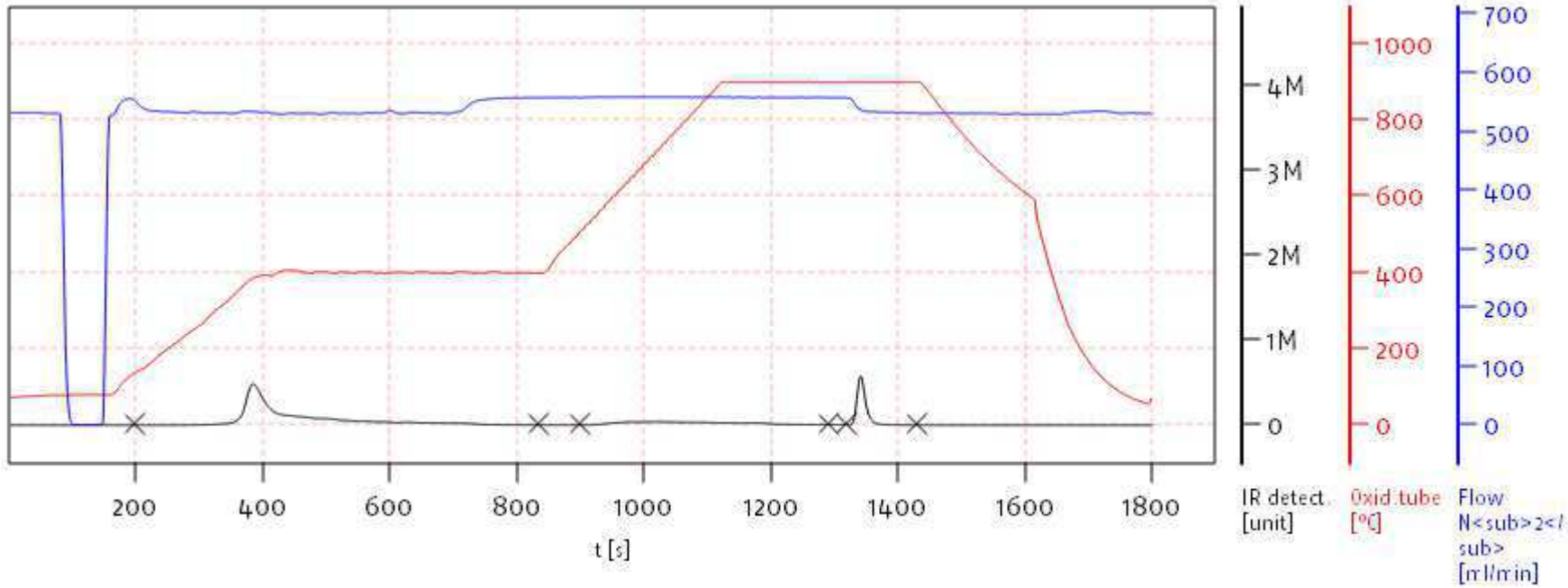
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
73	73	22L0105-08	168.30		CARBON	12/13/2022 9:40 PM	bl	1.397	1 317 992	1.681	0.295	347 081	334 917	1.102	0.284	0.9279	1.0000



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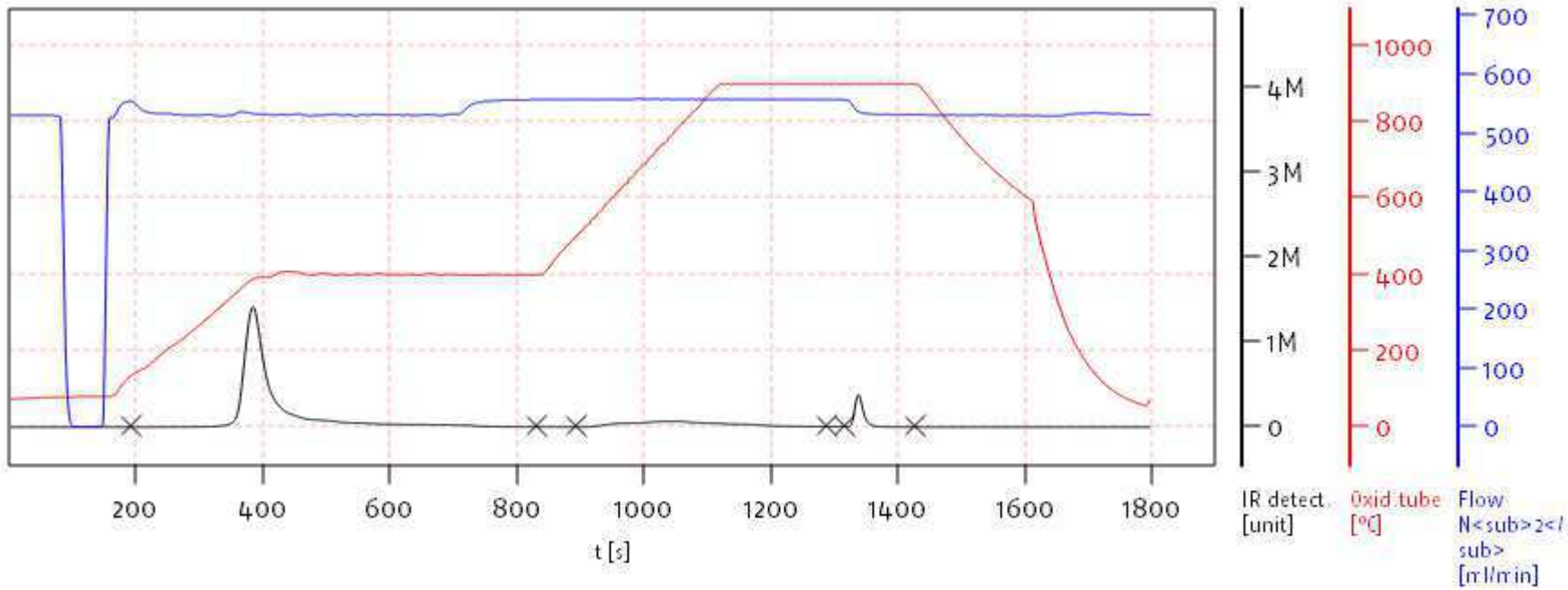
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
74	74	22L0105-09	293.50		CARBON	12/13/2022 10:11 PM	bl	1.379	2 626 316	1.623	0.107	229 177	488 314	1.272	0.244	0.9279	1.0000



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Soli TOC Cube, Carbon
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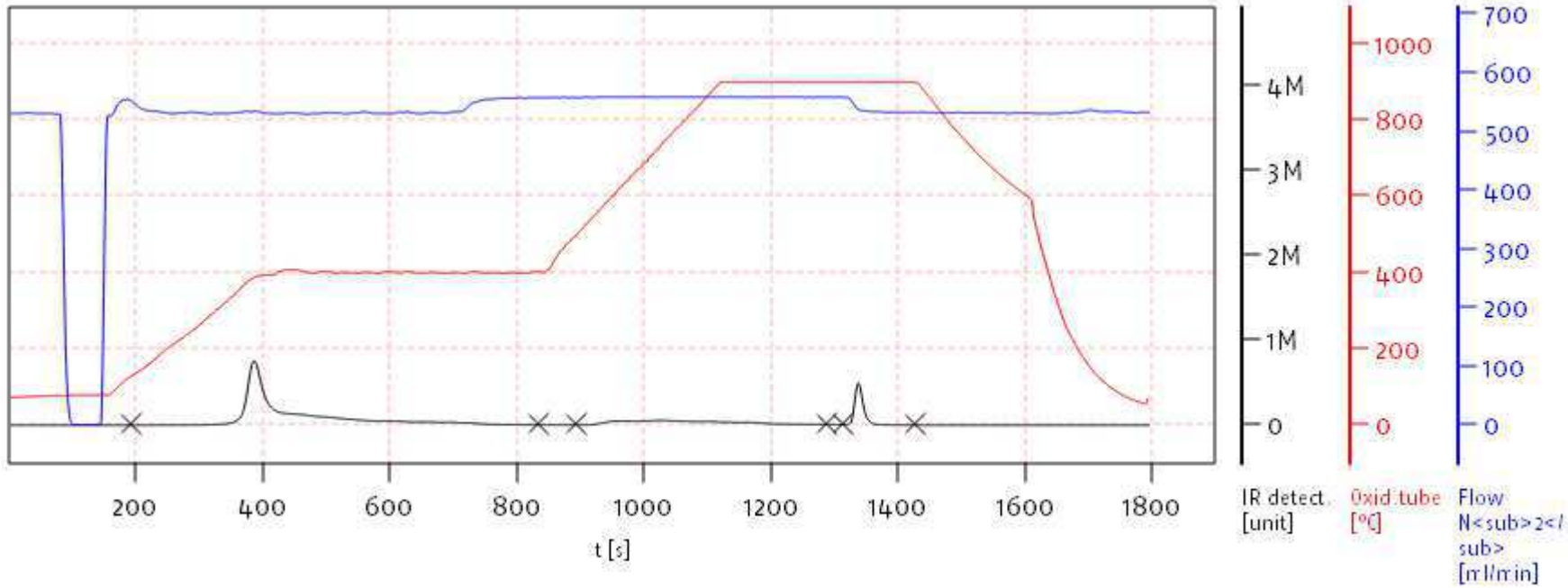
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
75	75	22L0105-10	225.90		CARBON	12/13/2022 10:41 PM	bl	1.258	1 716 395	1.553	0.183	293 693	456 982	1.074	0.295	0.9279	1.0000



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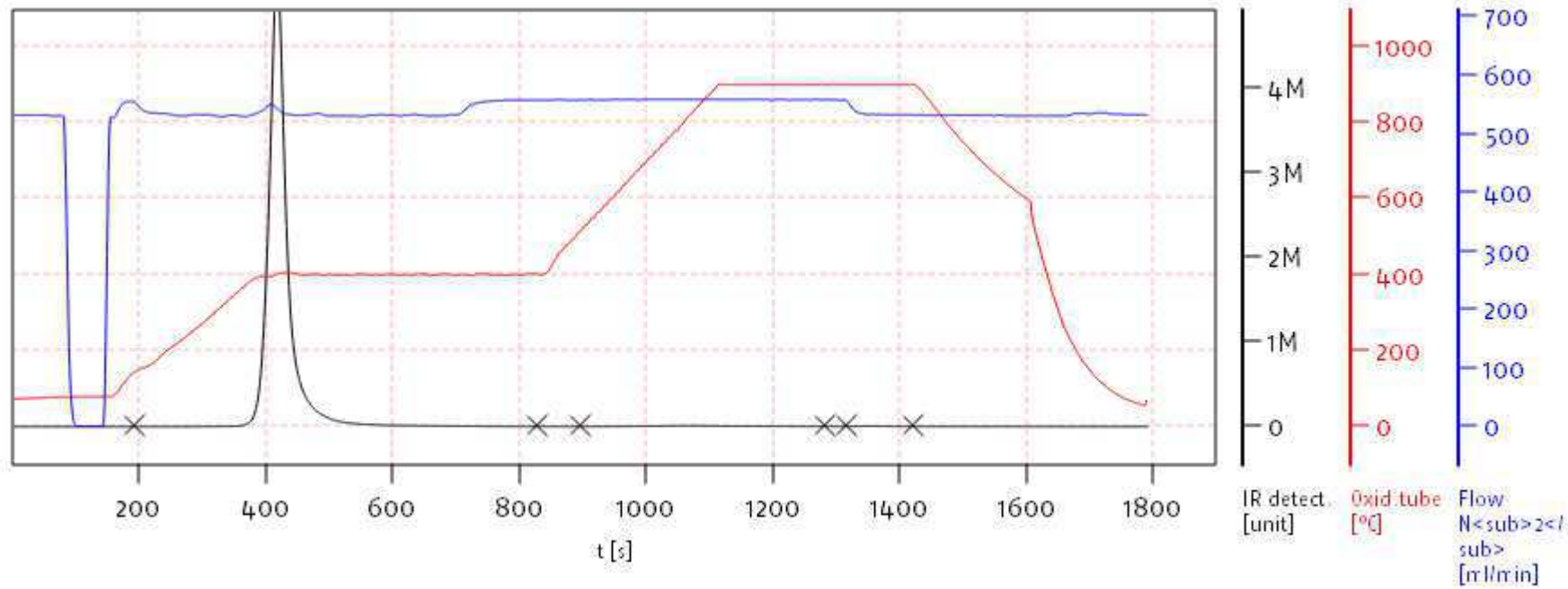
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
76	76	SKL0152-CCV6	21.70		CARBON	12/13/2022 11:11 PM	bl	44.465	6 744 270	44.826	0.000	16 317	77 150	44.465	0.361	0.9279	1.0000



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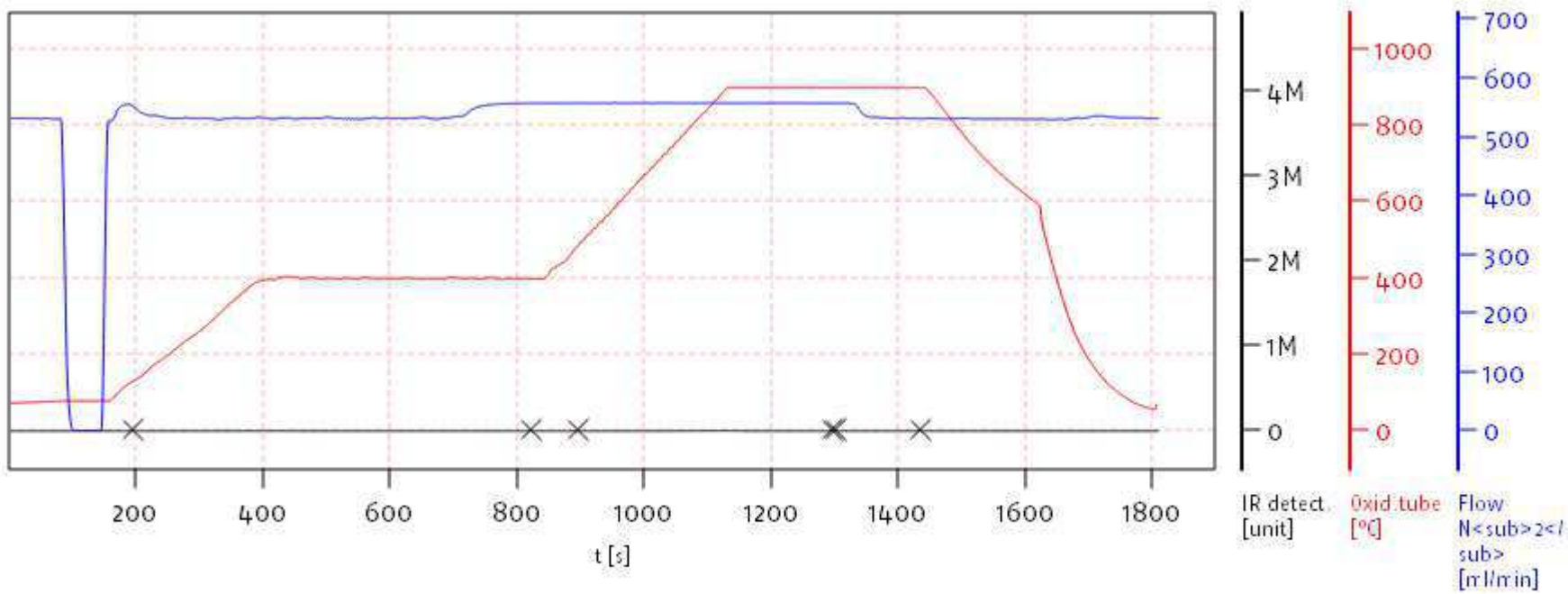
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
77	77	SKL0152-CCB6	519.30		CARBON	12/13/2022 11:42 PM	bl,C2u	0.000	5 705	0.000	0.000	298	9 452	0.000	0.000	0.9279	1.0000



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Balance: BAL3
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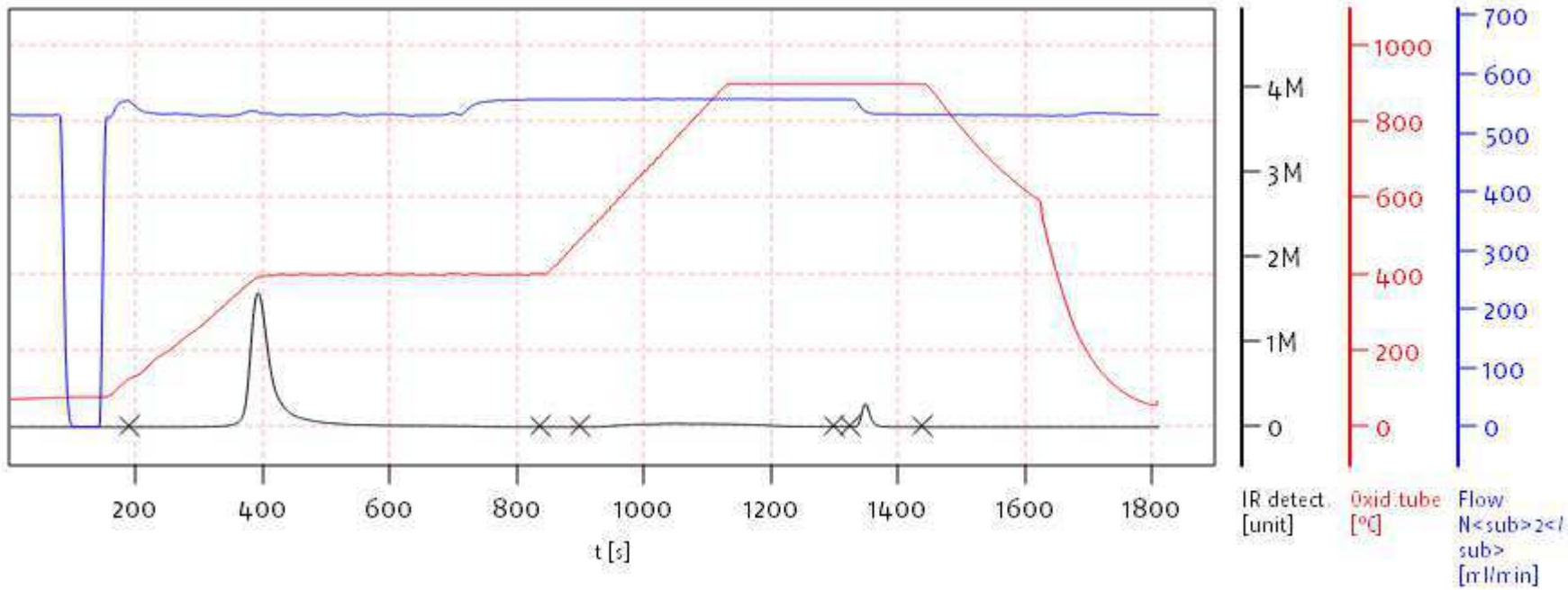
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
78	78	22L0105-11	226.70		CARBON	12/14/2022 12:12 AM	bl	1.665	2 505 947	1.876	0.094	163 798	336 128	1.571	0.211	0.9279	1.0000



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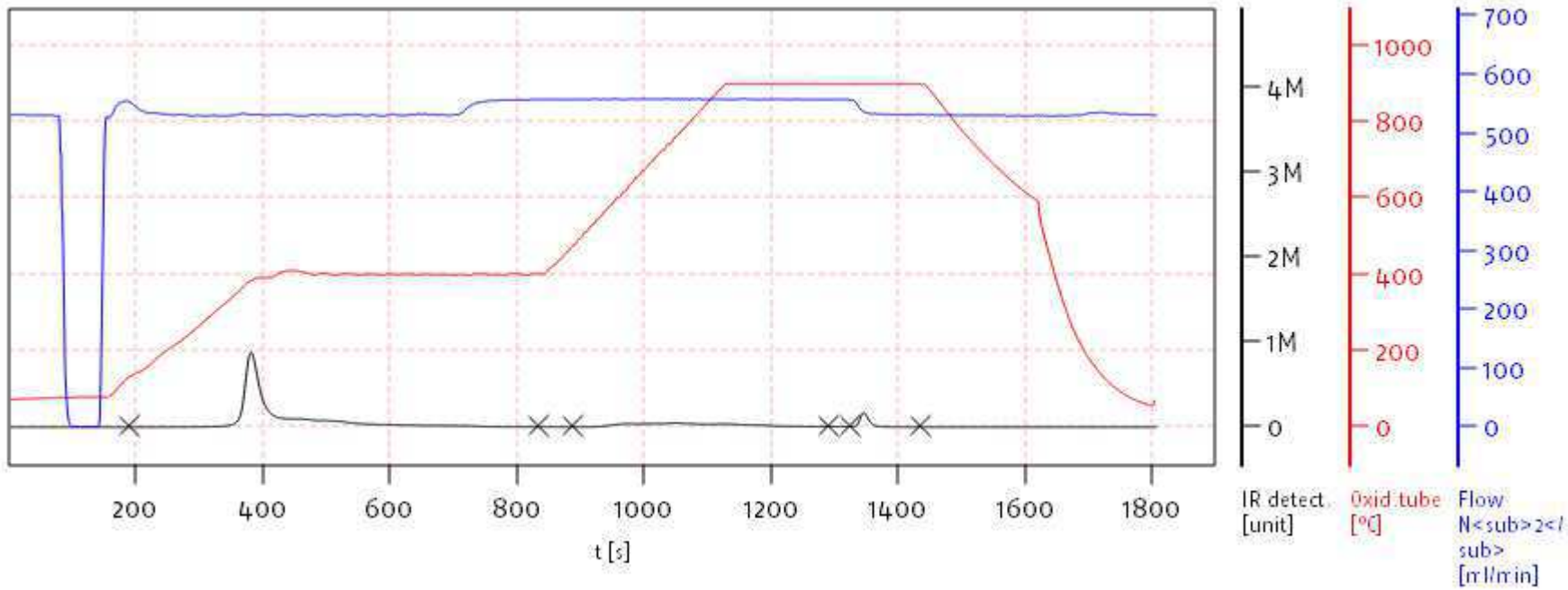
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
79	79	22L0105-12	204.60		CARBON	12/14/2022 12:43 AM	bl	1.117	1 531 132	1.379	0.061	107 014	372 254	1.056	0.262	0.9279	1.0000



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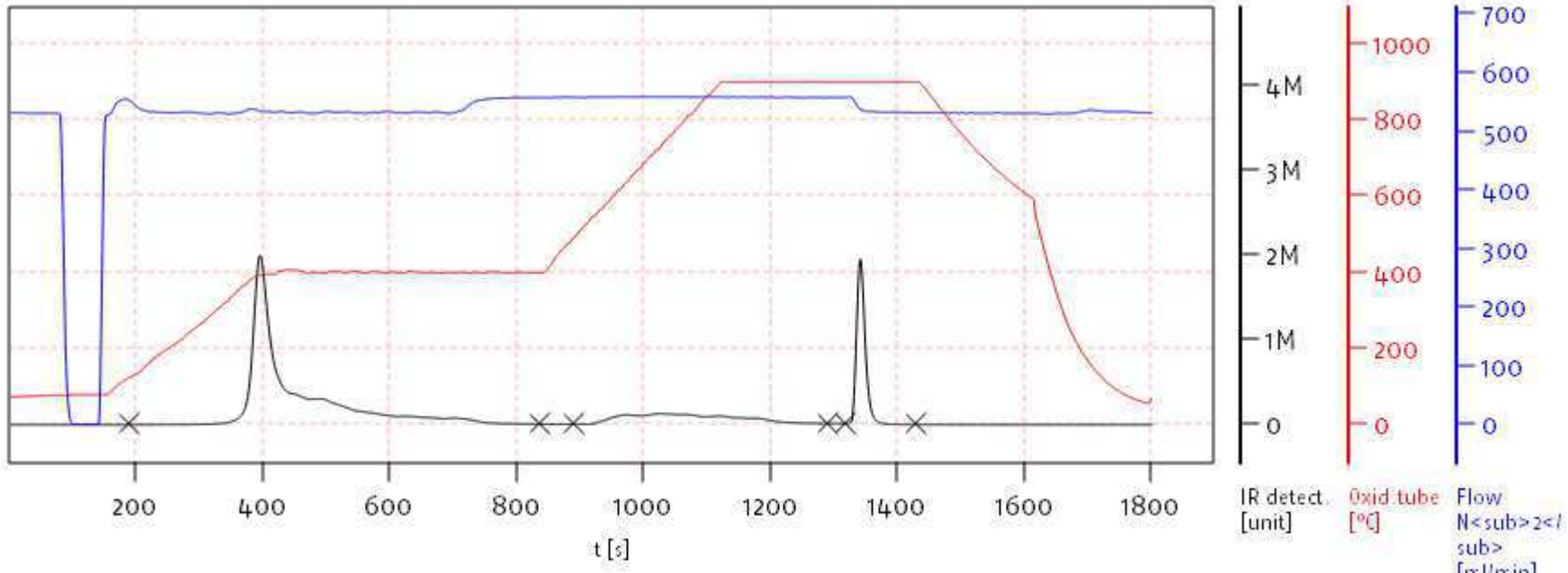
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
80	80	22L0105-13	537.90		CARBON	12/14/2022 1:13 AM	bl	1.508	4 440 859	1.814	0.329	1 169 123	1 091 294	1.179	0.306	0.9279	1.0000



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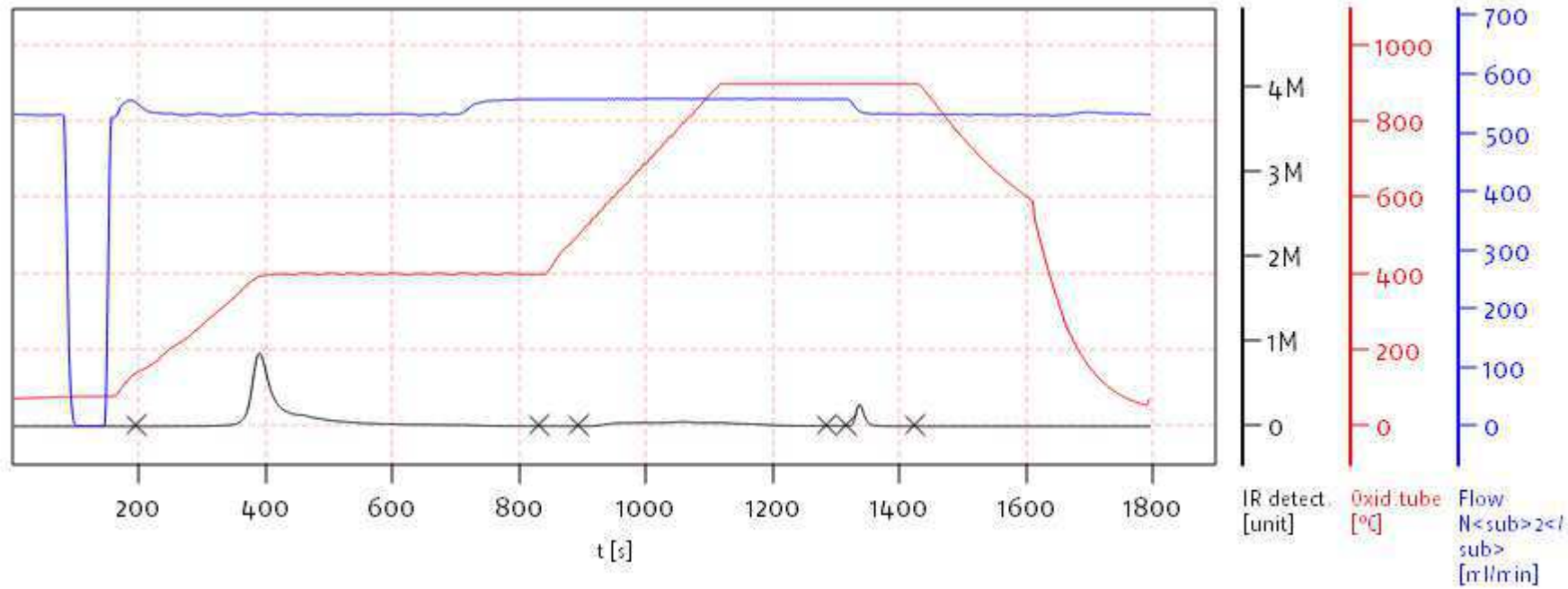
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
81	81	22L0105-14	230.80		CARBON	12/14/2022 1:44 AM	bl	1.154	1 740 876	1.415	0.087	156 265	416 157	1.067	0.261	0.9279	1.0000



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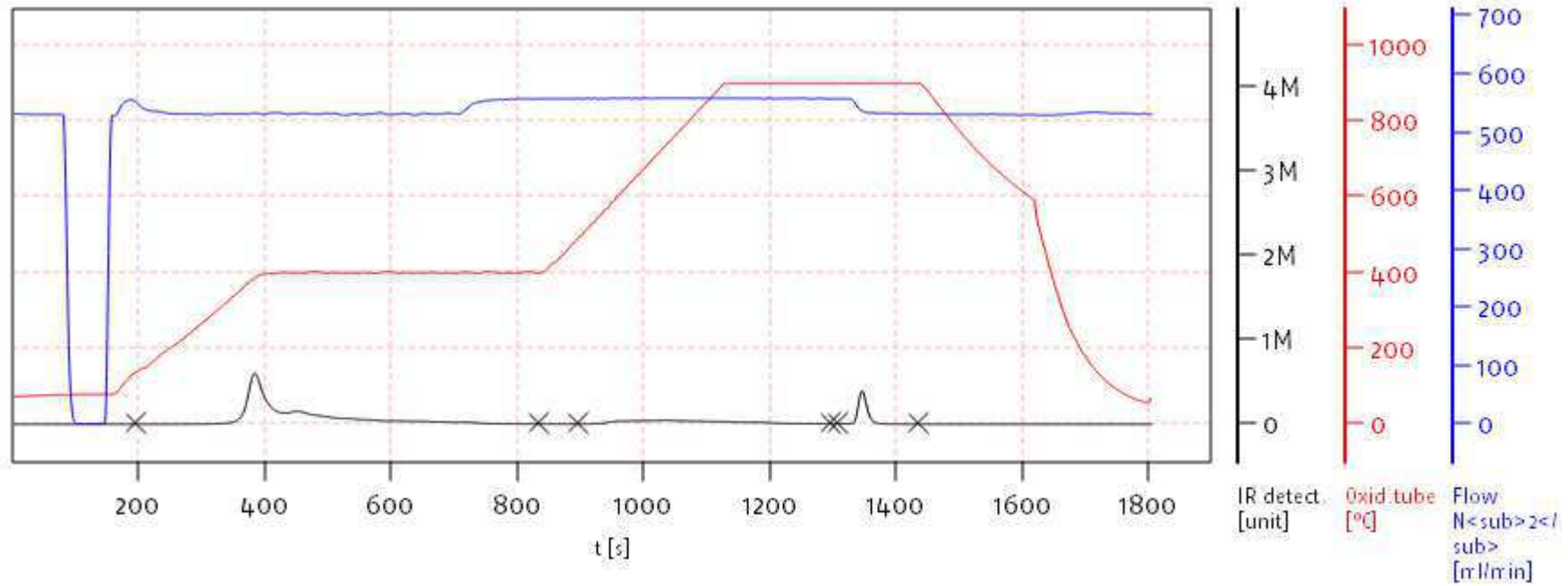
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
82	82	22L0105-15	217.30		CARBON	12/14/2022 2:14 AM	bl	1.147	1 526 037	1.386	0.156	244 842	362 356	0.991	0.239	0.9279	1.0000



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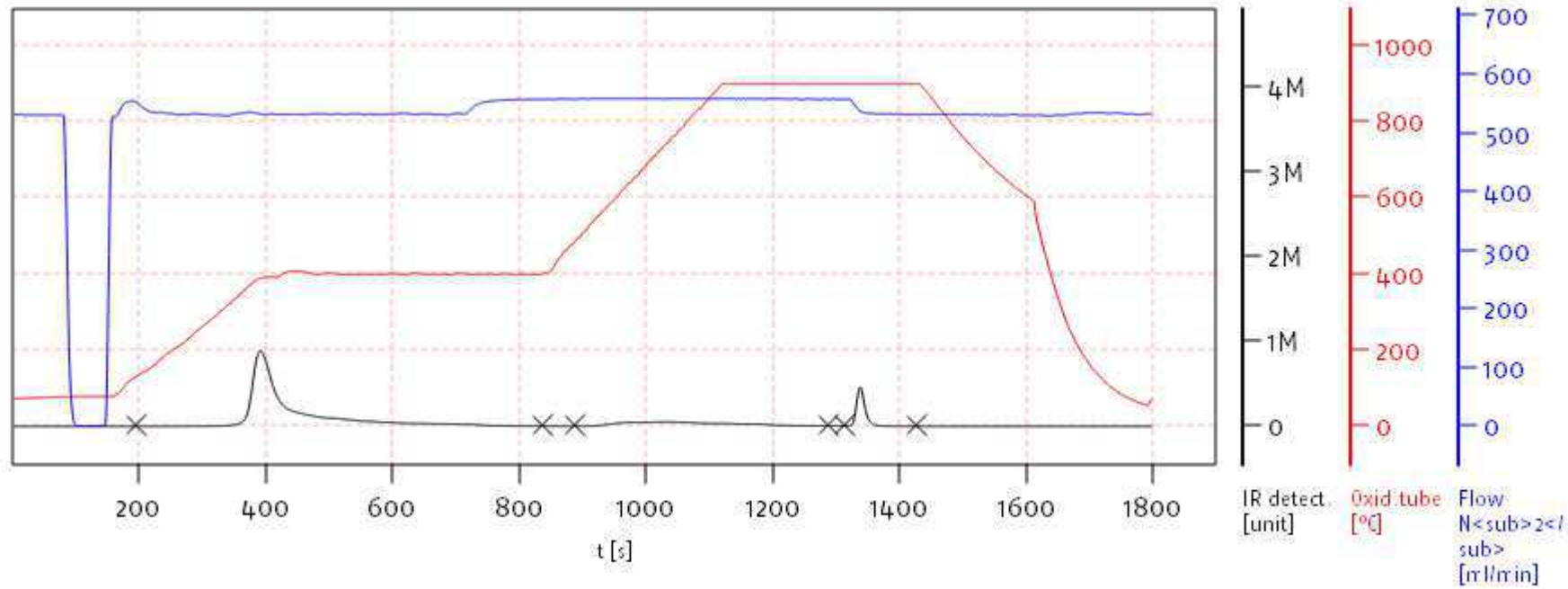
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
83	83	22L0105-16	224.80		CARBON	12/14/2022 2:44 AM	bl	1.480	2 078 047	1.748	0.170	272 683	415 174	1.311	0.268	0.9279	1.0000



Name:

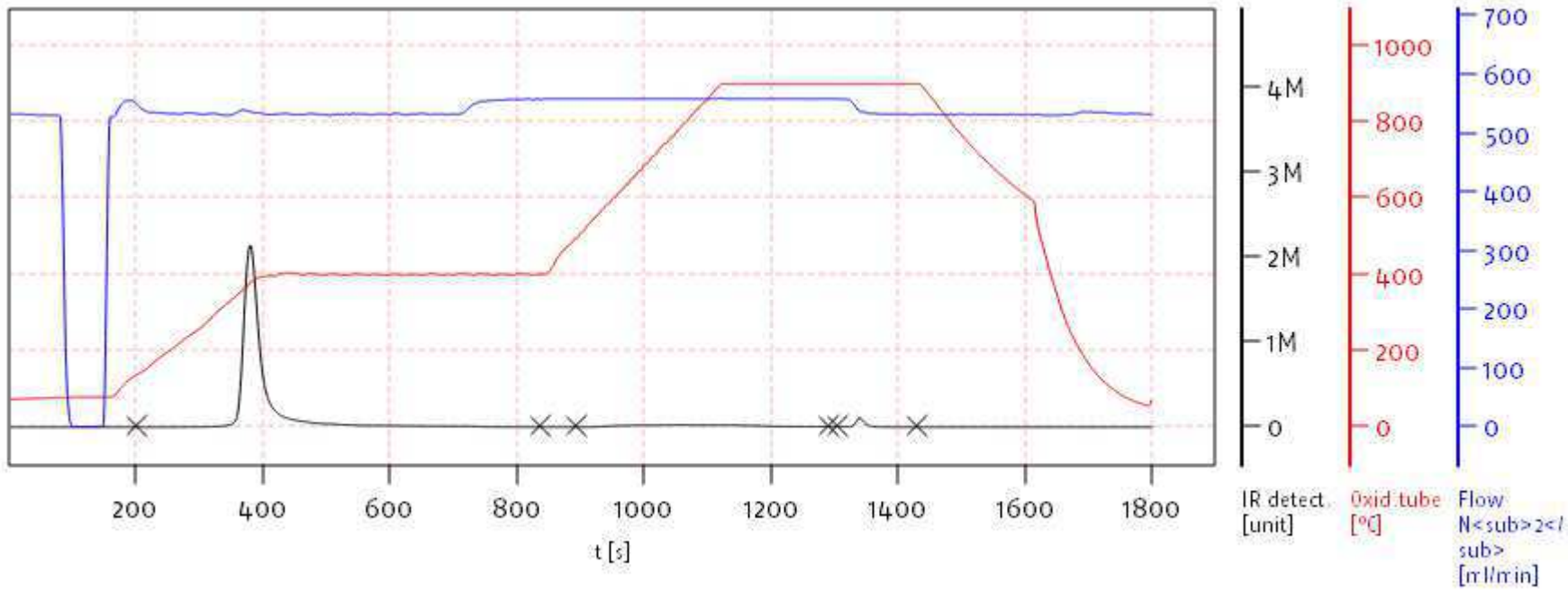
Access: soliTOC superuser

Date: Fri Dec 16 09:43:23 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
84	84	22L0105-17	178.00		CARBON	12/14/2022 3:15 AM	bl	2.162	2 659 781	2.330	0.037	68 712	220 145	2.125	0.168	0.9279	1.0000



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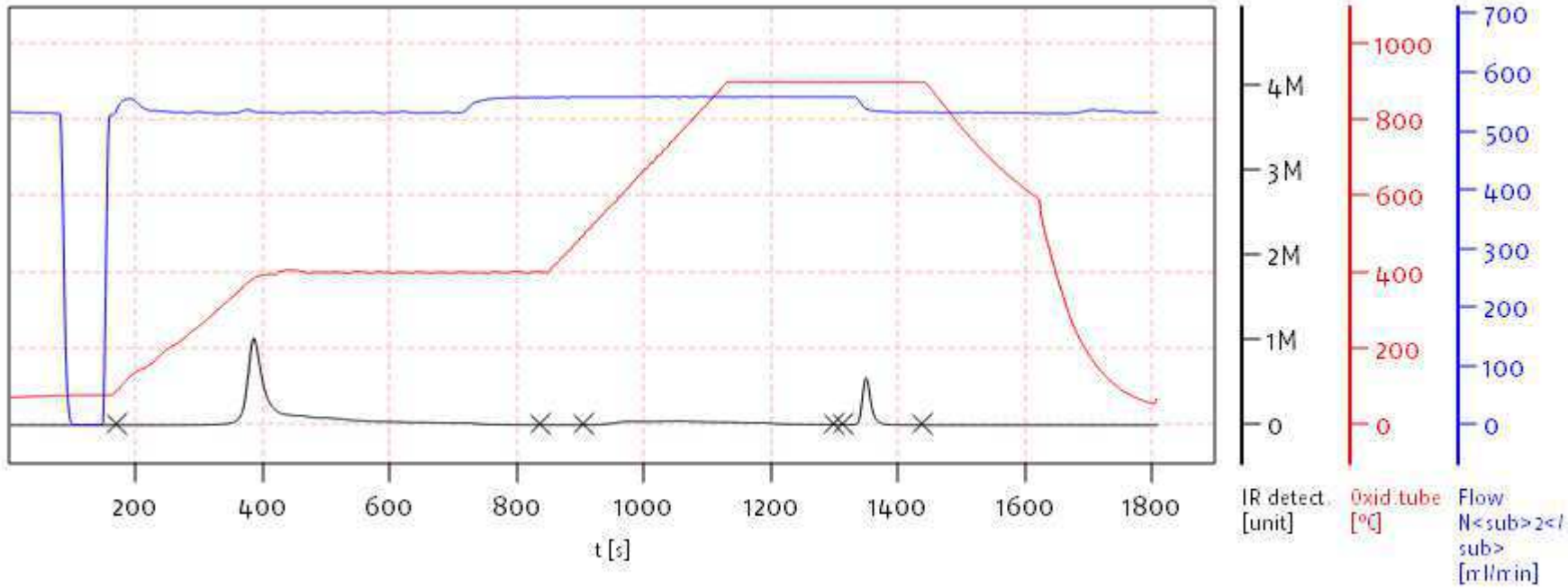
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
85	85	22L0105-18	193.70		CARBON	12/14/2022 3:45 AM	bl	1.588	1 833 699	1.885	0.248	336 682	398 219	1.340	0.297	0.9279	1.0000



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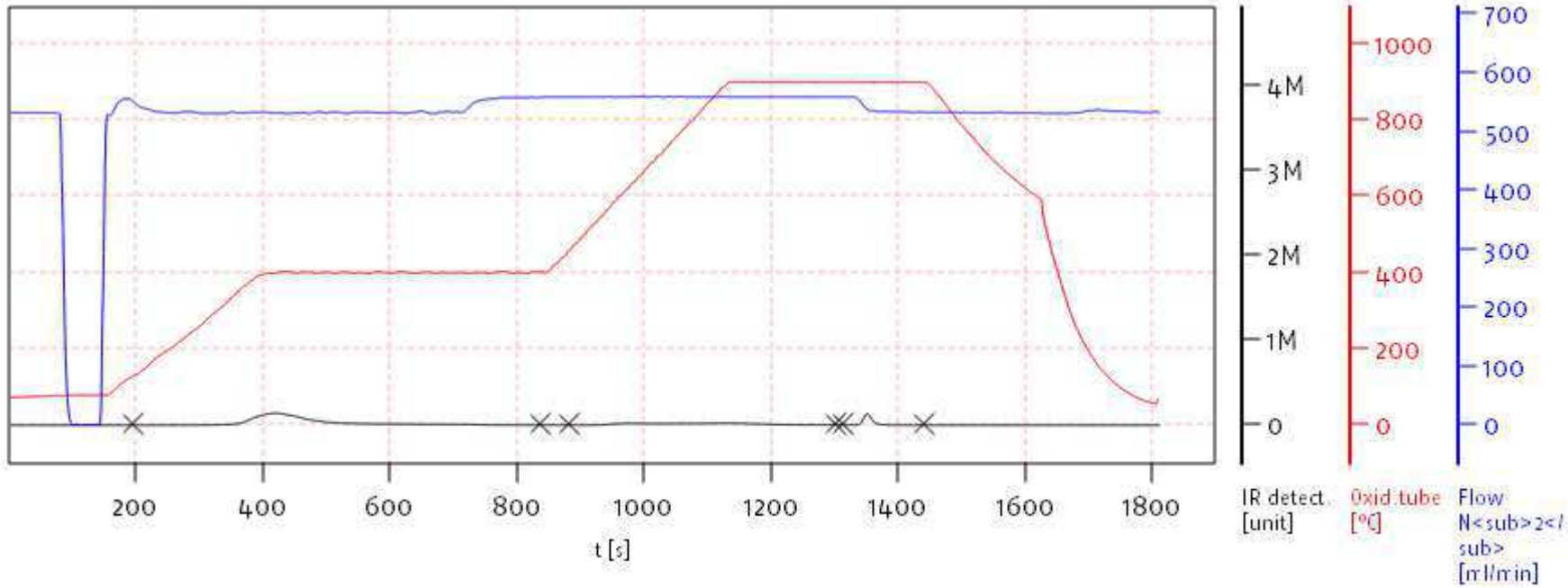
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
86	86	22L0105-19	172.30		CARBON	12/14/2022 4:16 AM	bl	0.547	620 419	0.703	0.052	84 301	200 301	0.495	0.156	0.9279	1.0000



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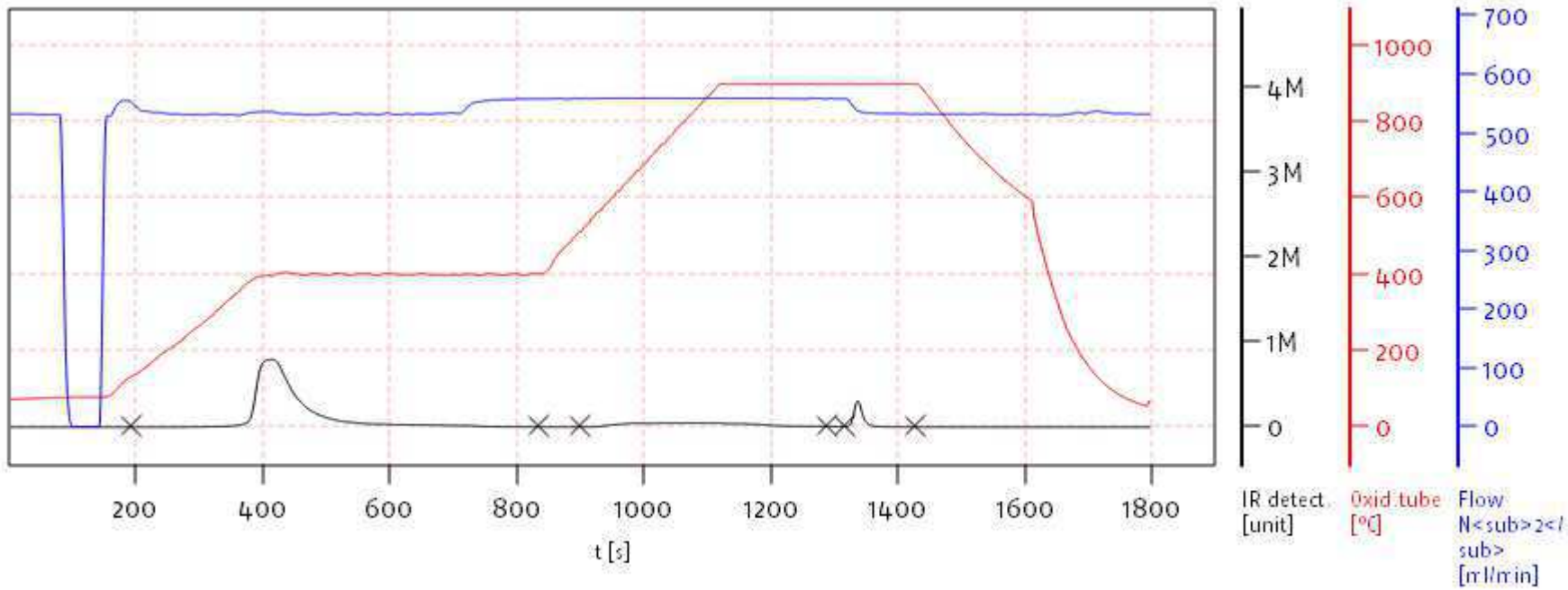
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
87	87	22L0105-20	505.90		CARBON	12/14/2022 4:46 AM	bl	0.717	2 376 096	0.844	0.050	189 425	441 919	0.667	0.127	0.9279	1.0000



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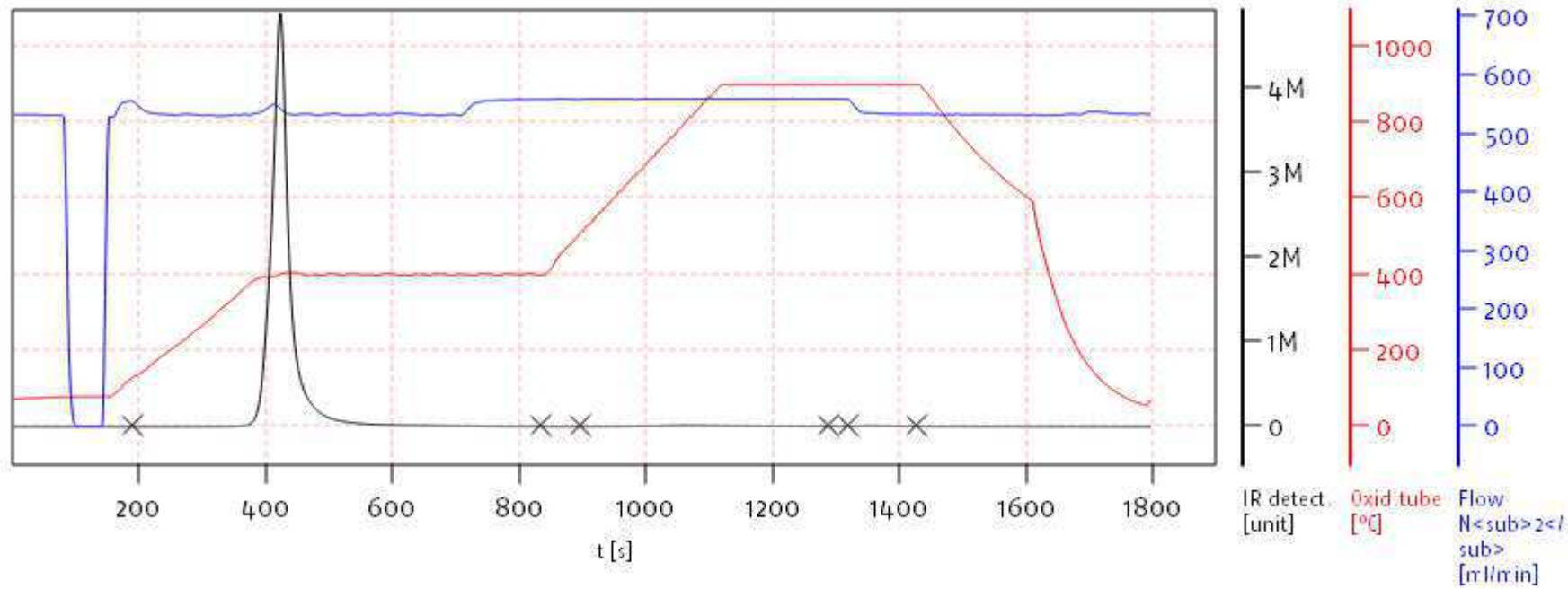
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
88	88	SKL0152-CCV7	20.40		CARBON	12/14/2022 5:17 AM	bl	43.135	6 152 890	43.675	0.000	23 801	97 655	43.135	0.540	0.9279	1.0000



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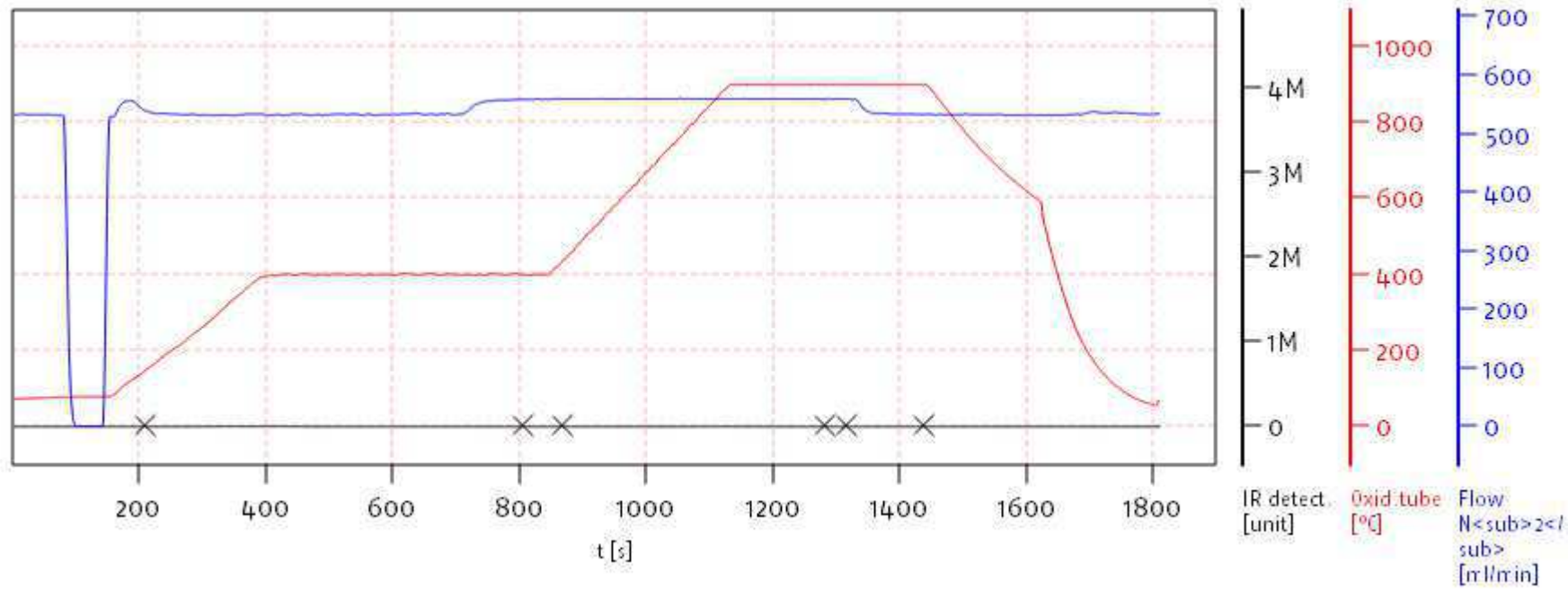
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
89	89	SKL0152-CCB7	519.00		CARBON	12/14/2022 5:47 AM	bl,C2u	0.000	13 112	0.000	0.000	282	5 125	0.000	0.000	0.9279	1.0000



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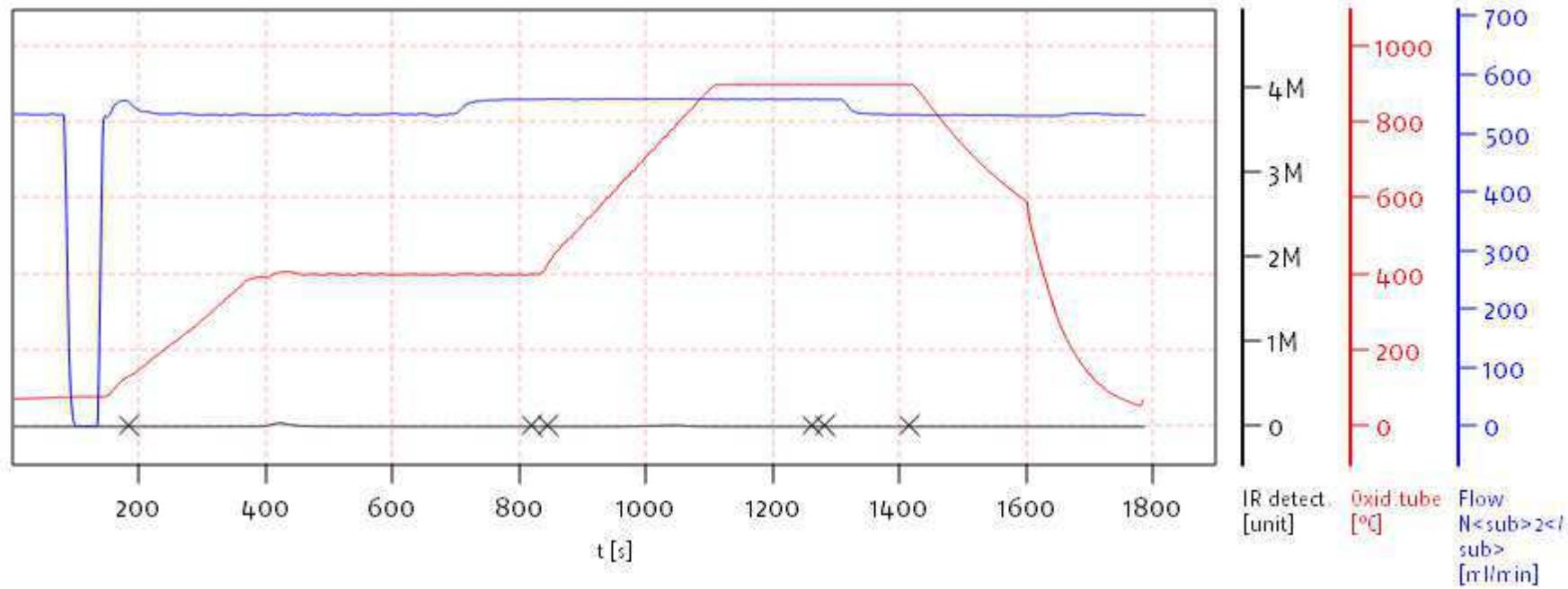
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
90	1	BKL0268-MRL1	506.20		CARBON	12/14/2022 6:17 AM	bl,C2u	0.012	67 645	0.014	0.000	647	35 302	0.012	0.003	0.9279	1.0000



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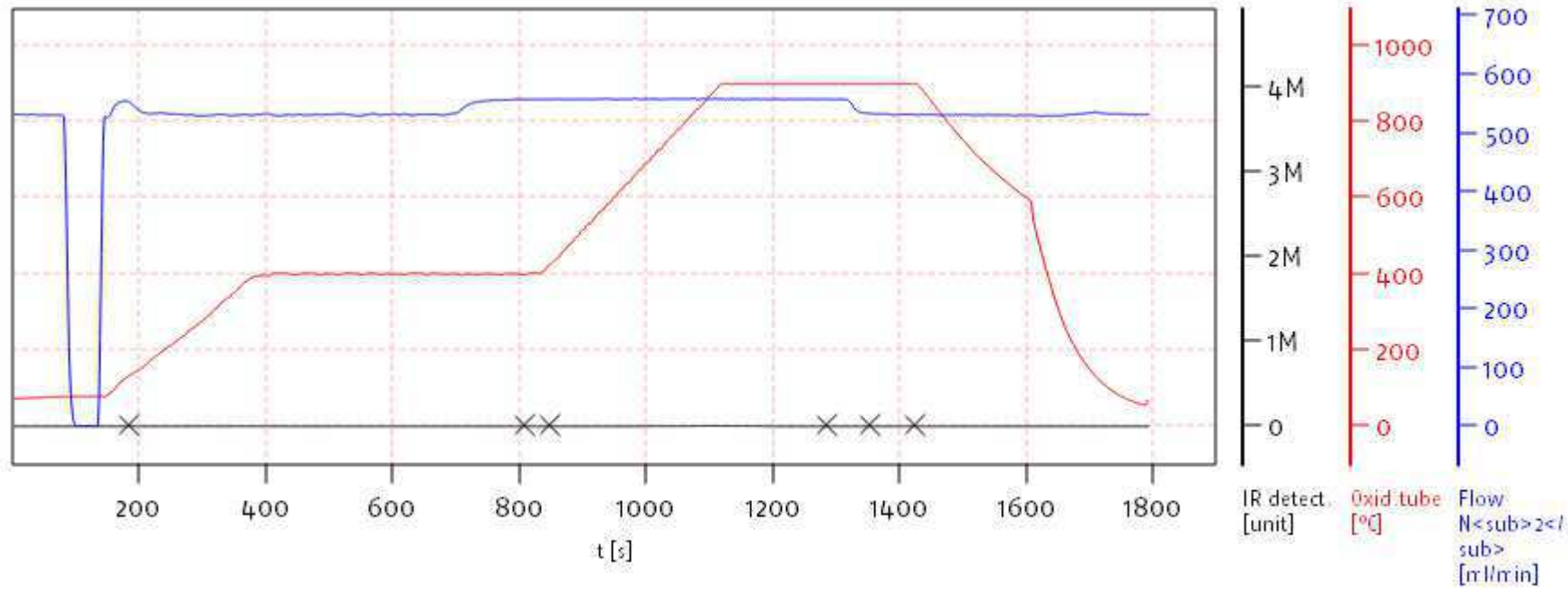
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
91	2	BKL0268-BLK1	504.80		CARBON	12/14/2022 6:48 AM	bl,C2u	0.000	8 543	0.001	0.000	283	30 798	0.000	0.001	0.9279	1.0000



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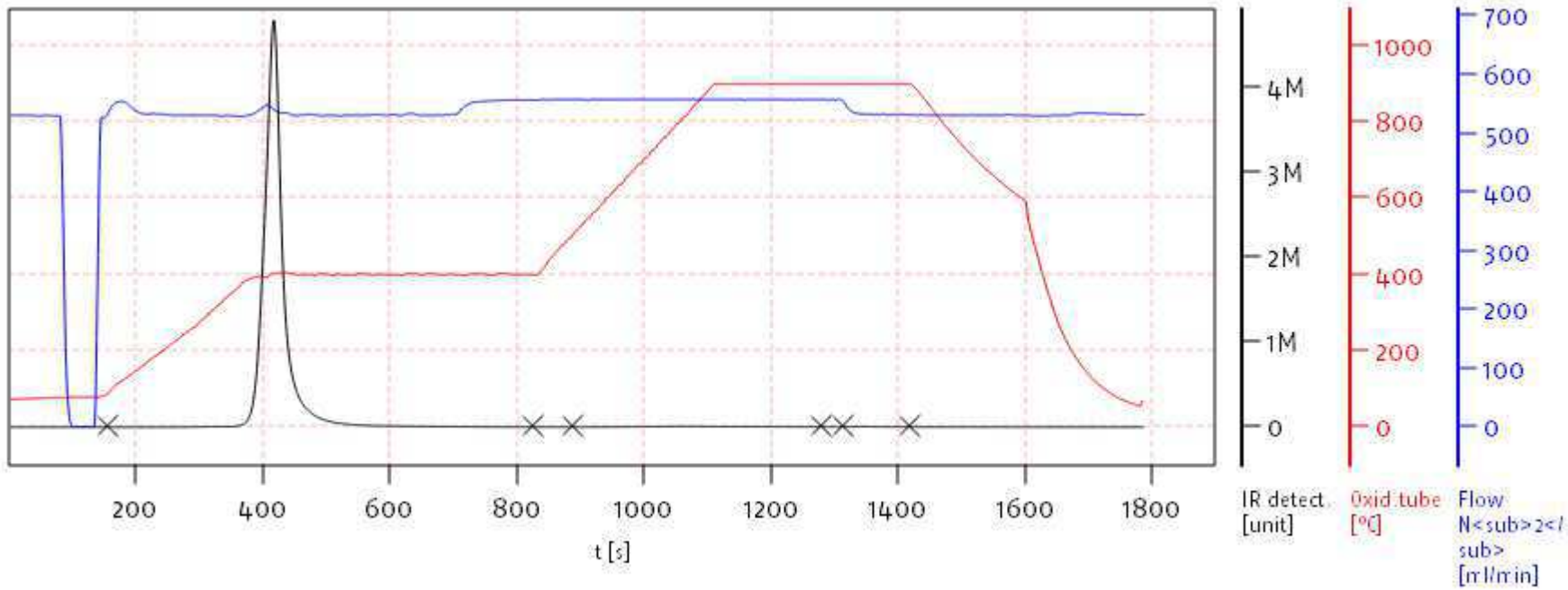
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
92	3	BKL0268-BS1	19.60		CARBON	12/14/2022 7:18 AM	bl	44.046	6 036 981	44.427	0.000	15 508	74 741	44.046	0.381	0.9279	1.0000



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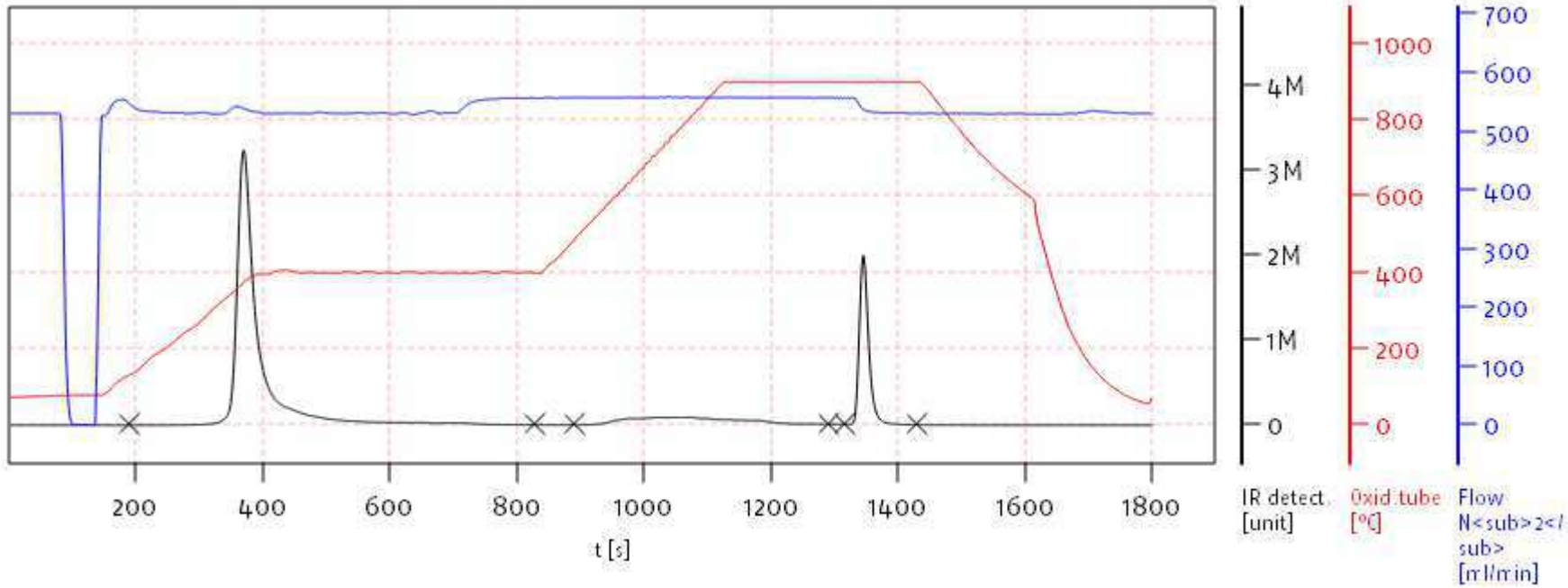
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
93	4	BKL0268-SRM1	294.80		CARBON	12/14/2022 7:48 AM	bl	2.886	4 578 426	3.276	0.668	1 298 849	768 664	2.218	0.390	0.9279	1.0000



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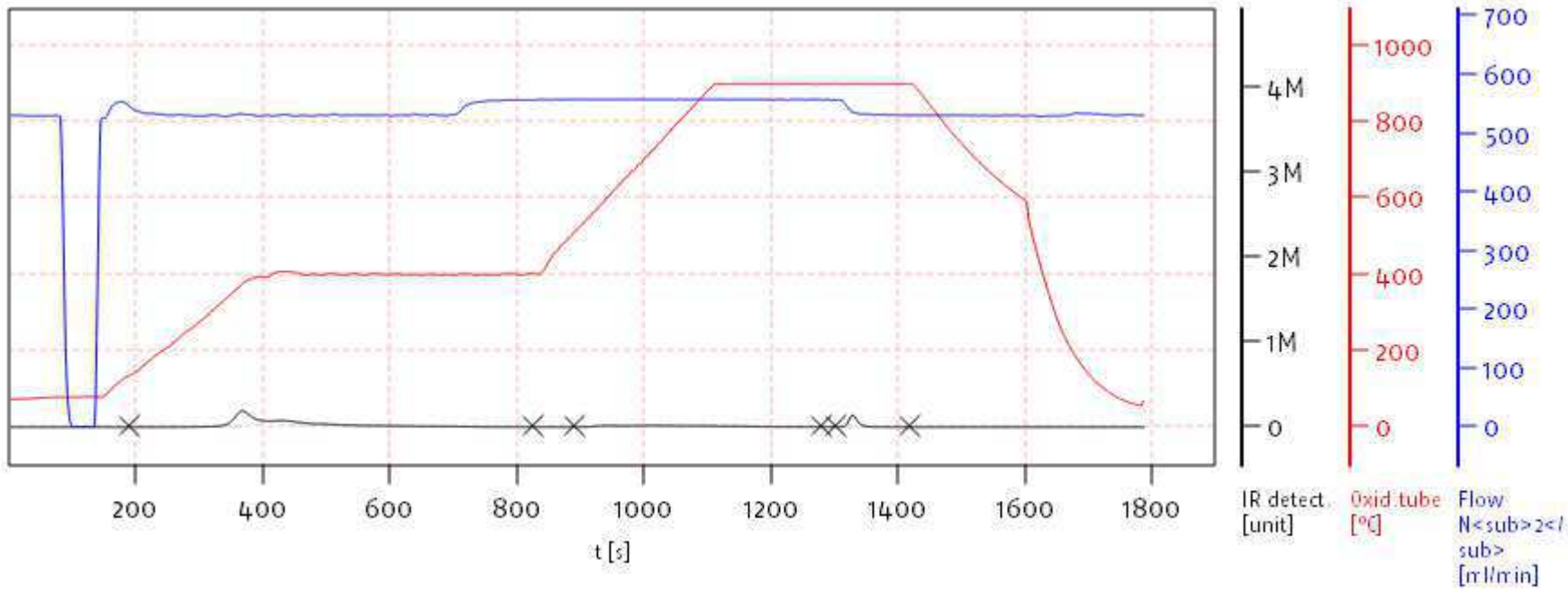
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
94	5	22L0105-21	103.60		CARBON	12/14/2022 8:18 AM	bl	0.922	627 041	1.107	0.090	86 709	150 210	0.833	0.185	0.9279	1.0000



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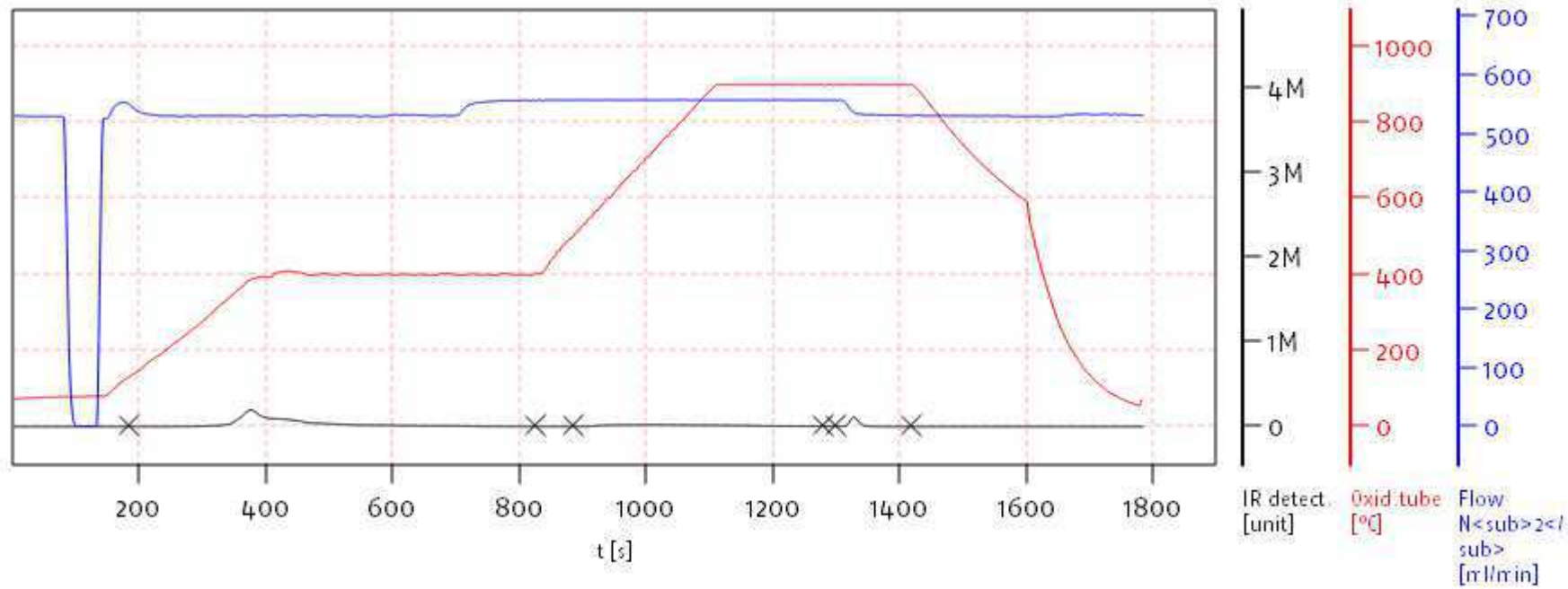
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
95	6	BKL0268-DUP1	112.70		CARBON	12/14/2022 8:49 AM	bl	0.902	686 956	1.123	0.060	70 088	187 794	0.842	0.222	0.9279	1.0000



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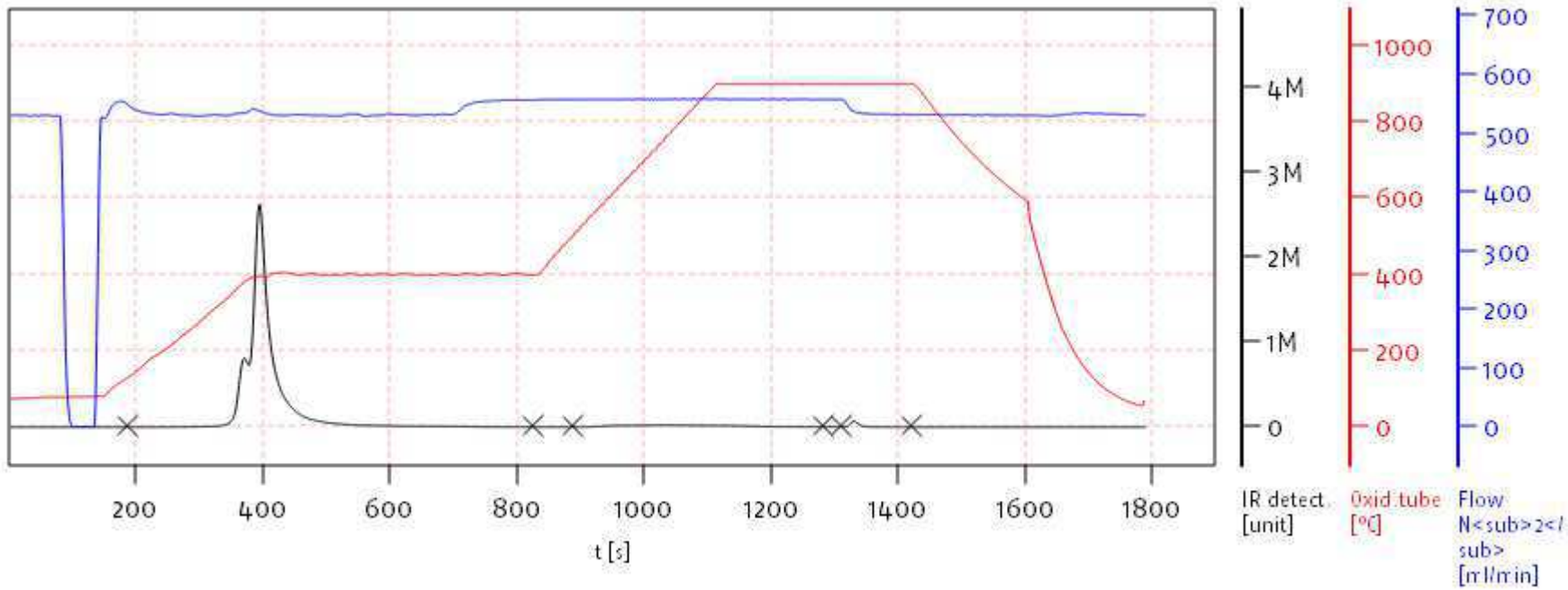
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
96	7	BKL0268-MS1	103.10	0.0097	CARBON	12/14/2022 9:19 AM	bl	5.184	3 730 640	5.426	0.023	42 088	187 675	5.160	0.242	0.9279	1.0000



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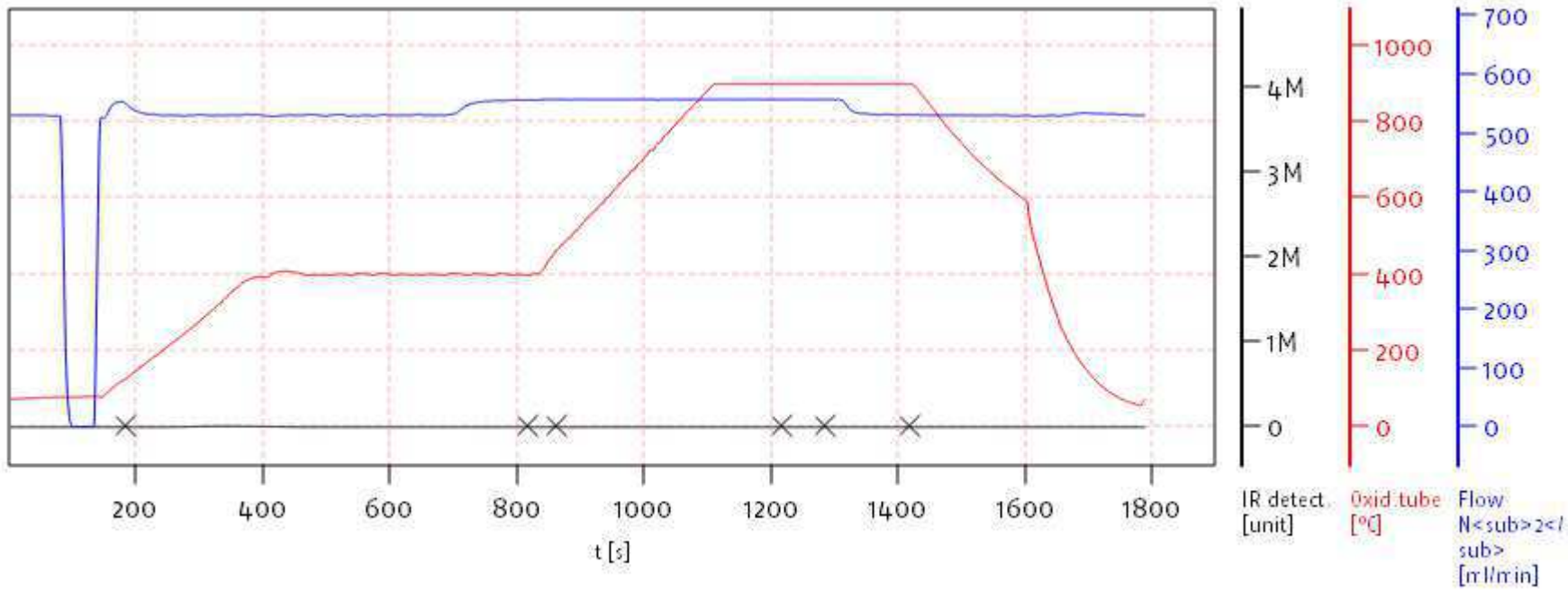
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
97	8	BLANK	1.00		CARBON	12/14/2022 9:49 AM	bl	0.000	52 948	0.000	0.000	362	2 050	0.000	0.000	0.9279	1.0000



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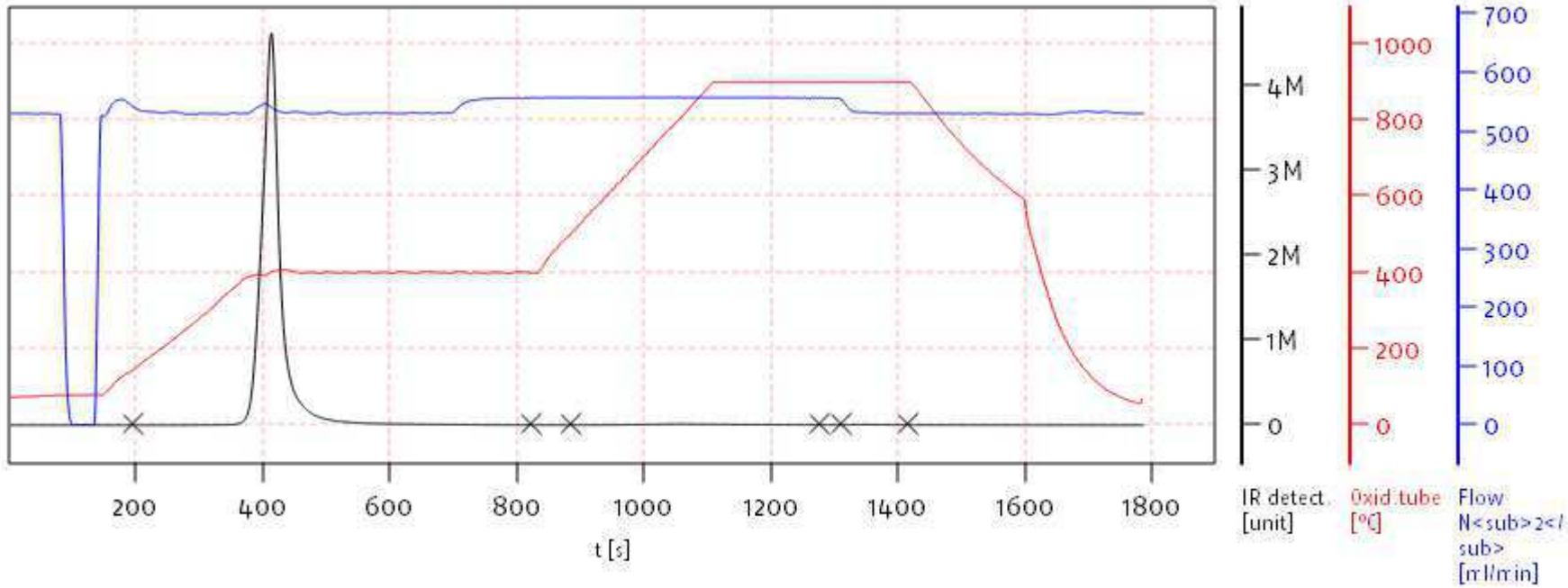
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
98	9	Dfactor	19.40		CARBON	12/14/2022 10:19 AM	bl	44.446	5 888 489	44.963	0.000	19 890	91 365	44.446	0.517	0.9502	1.0000



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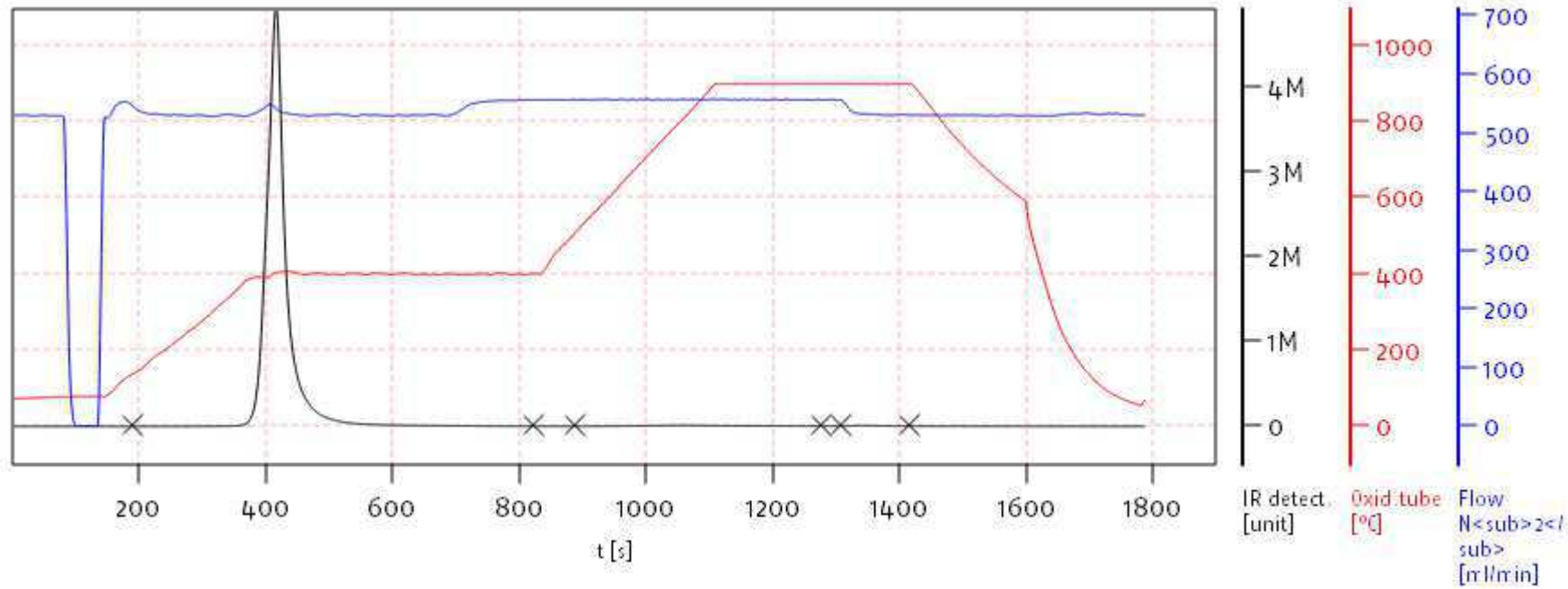
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
99	10	Dfactor	21.20		CARBON	12/14/2022 10:49 AM	bl	44.446	6 456 981	44.894	0.000	22 257	87 979	44.446	0.449	0.9466	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
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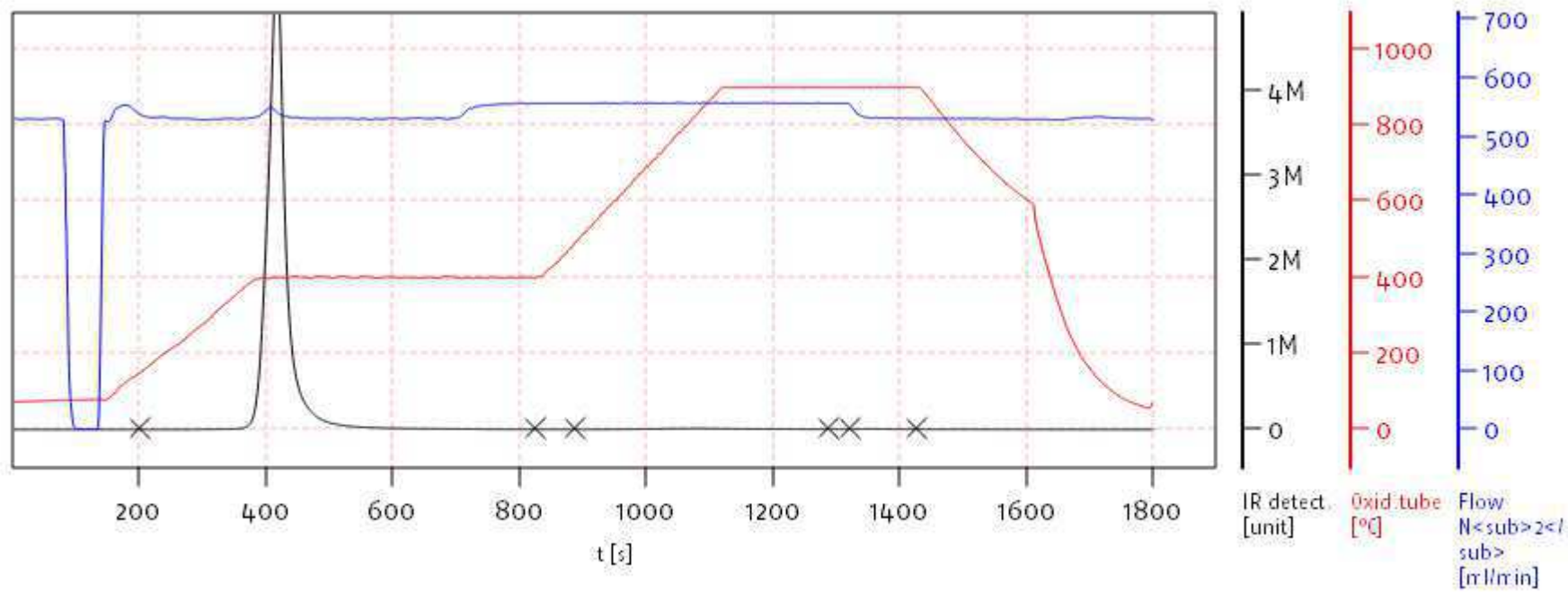
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
100	11	SKL0152-CCV8	22.10		CARBON	12/14/2022 11:20 AM	bl	45.244	6 837 349	45.698	0.000	19 529	91 275	45.244	0.453	0.9484	1.0000



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Balance: BAL3
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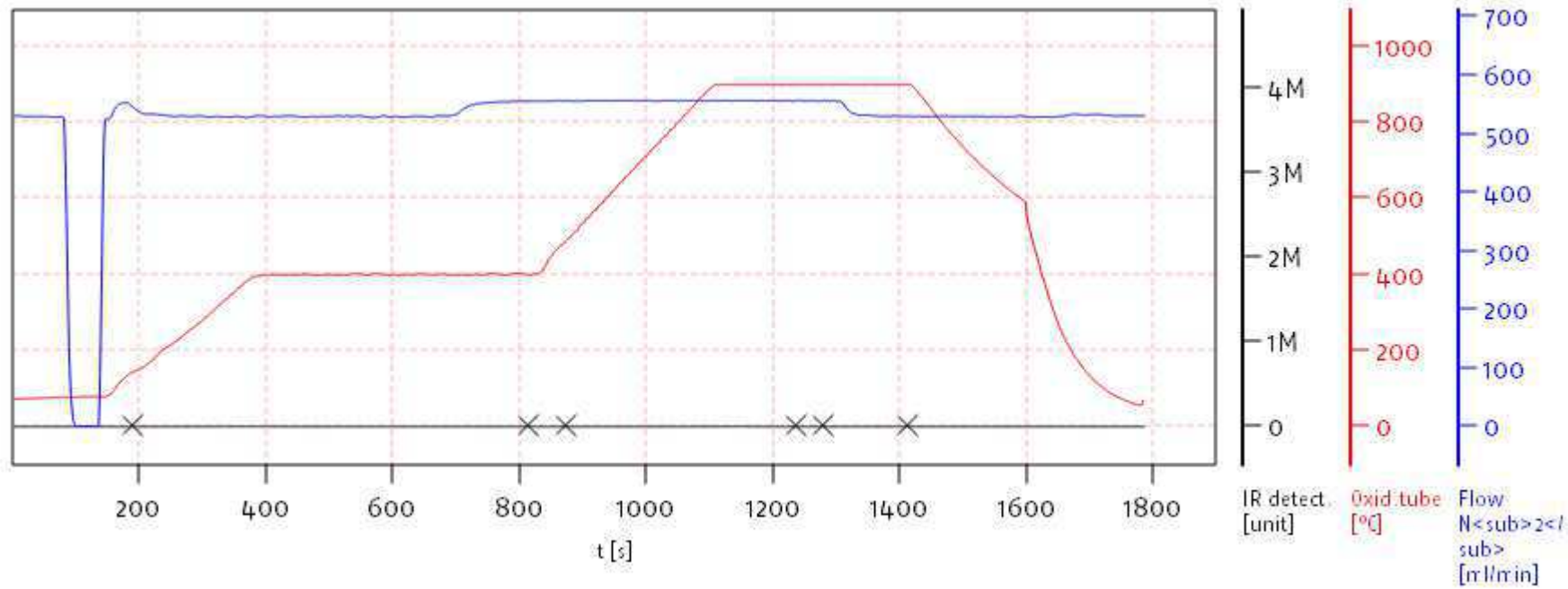
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
101	12	SKL0152-CCB8	510.30		CARBON	12/14/2022 11:50 AM	bl,C2u	0.000	6 811	0.000	0.000	573	5 797	0.000	0.000	0.9484	1.0000



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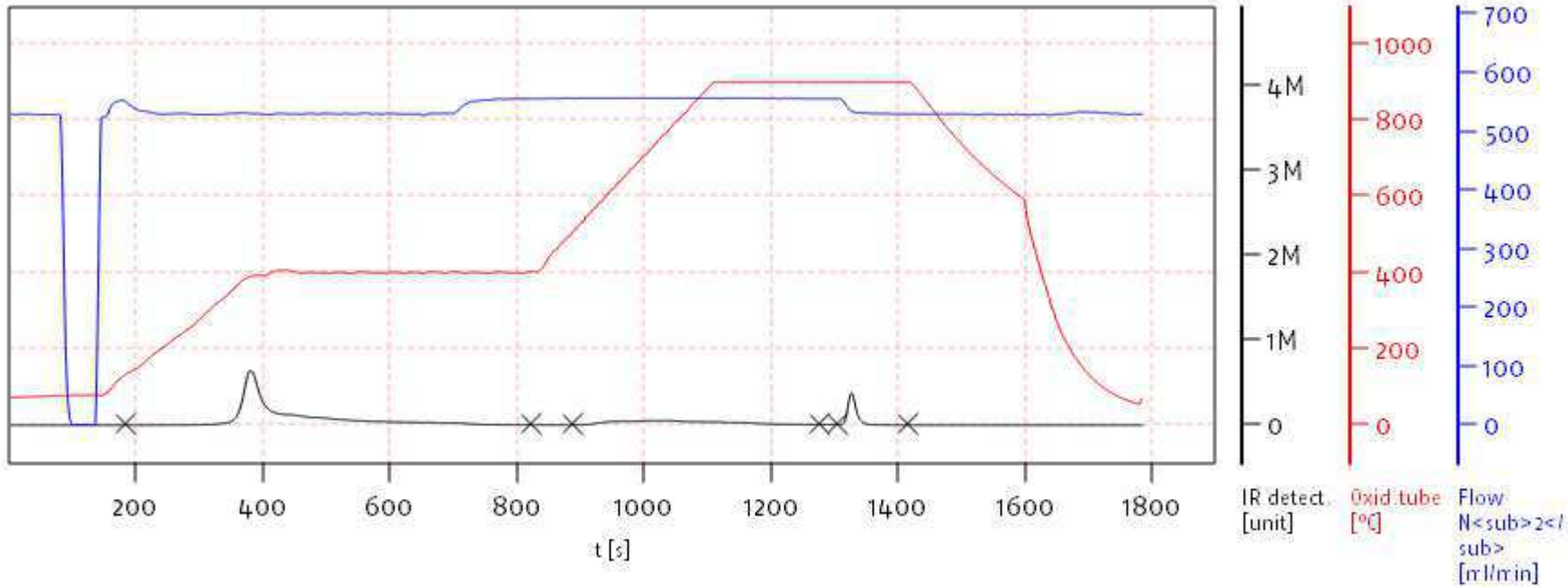
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
102	13	22L0105-22	262.90		CARBON	12/14/2022 12:20 PM	bl	0.964	1 542 962	1.203	0.117	225 347	433 285	0.847	0.240	0.9484	1.0000



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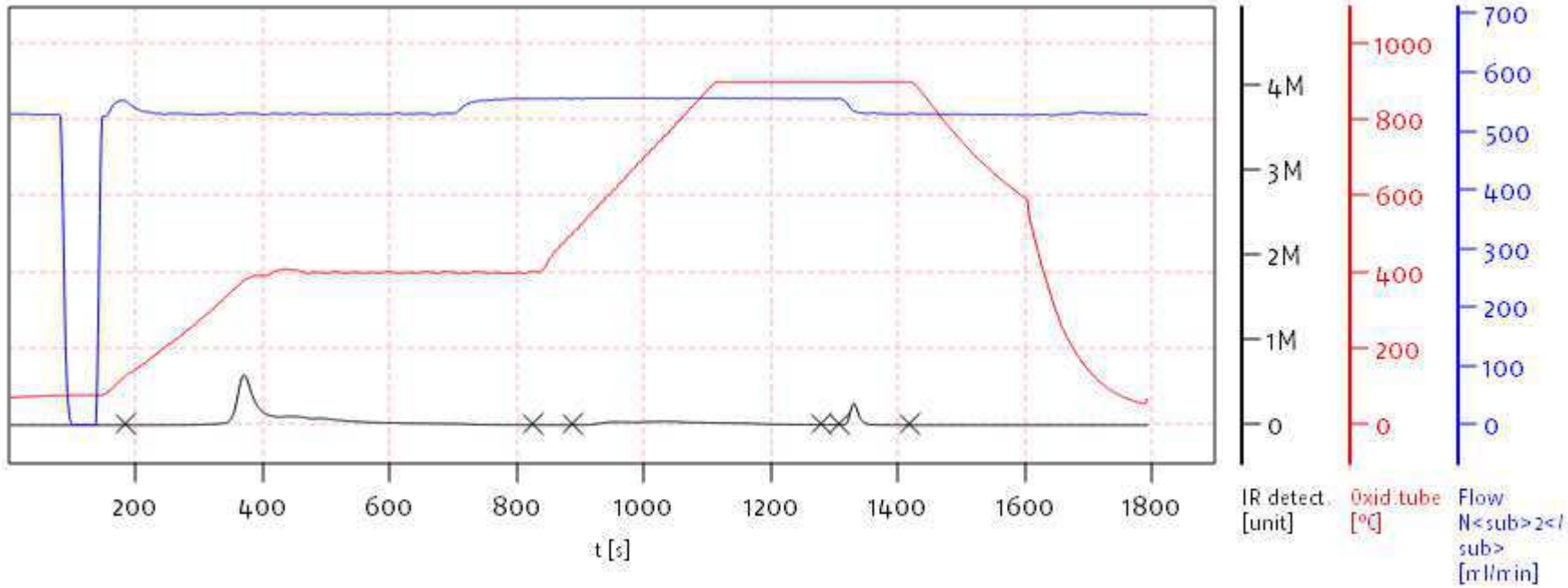
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
103	14	22L0105-23	193.70		CARBON	12/14/2022 12:51 PM	bl	1.084	1 322 391	1.334	0.102	154 473	338 359	0.982	0.249	0.9484	1.0000



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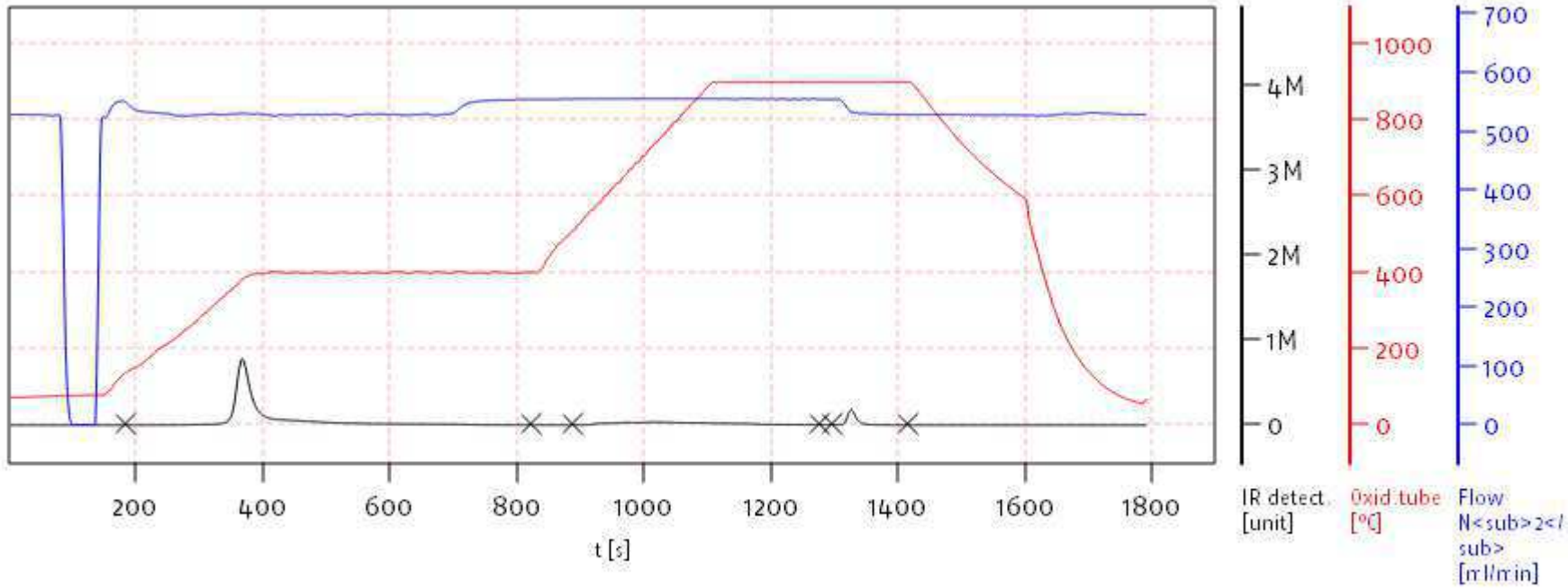
Date: Fri Dec 16 09:43:23 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
104	15	22L0105-24	144.60		CARBON	12/14/2022 1:21 PM	bl	1.251	1 164 109	1.513	0.096	115 877	271 280	1.155	0.262	0.9484	1.0000



Name:

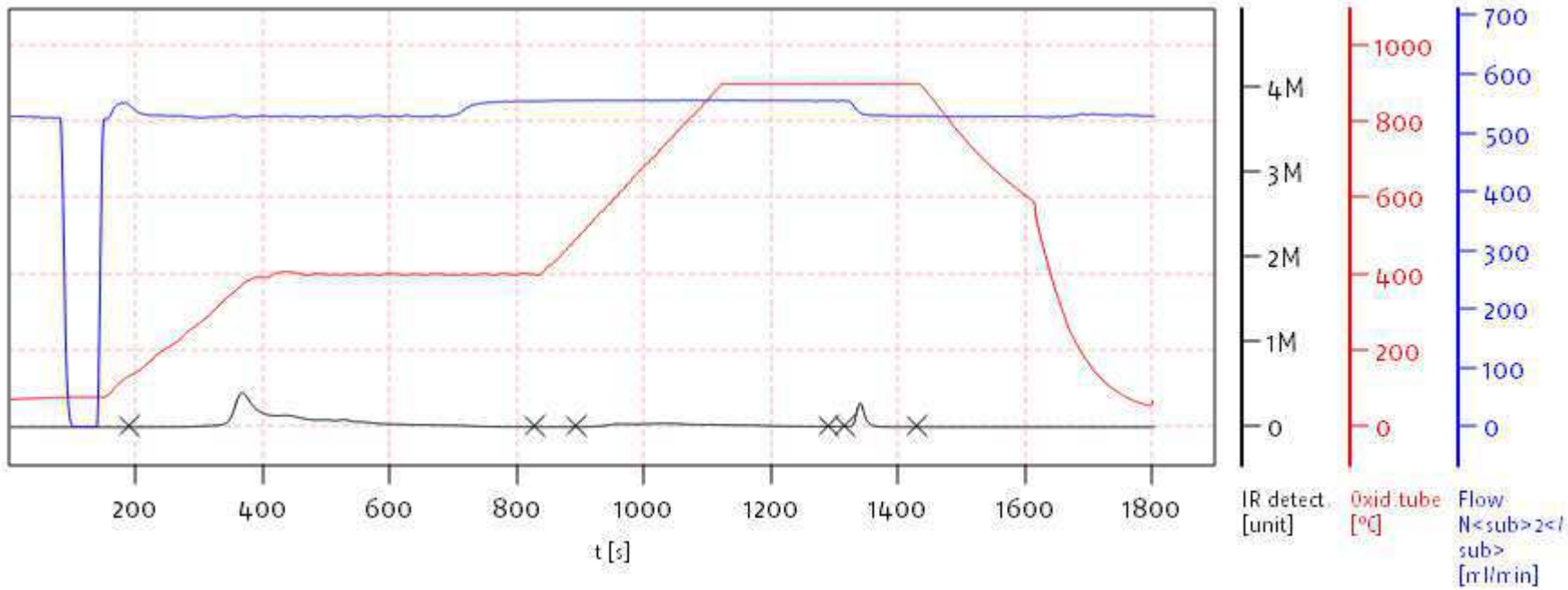
Access: soliTOC superuser

Date: Fri Dec 16 09:43:23 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
105	16	22L0105-25	160.10		CARBON	12/14/2022 1:51 PM	bl	1.385	1 386 576	1.681	0.138	168 763	333 476	1.247	0.297	0.9484	1.0000



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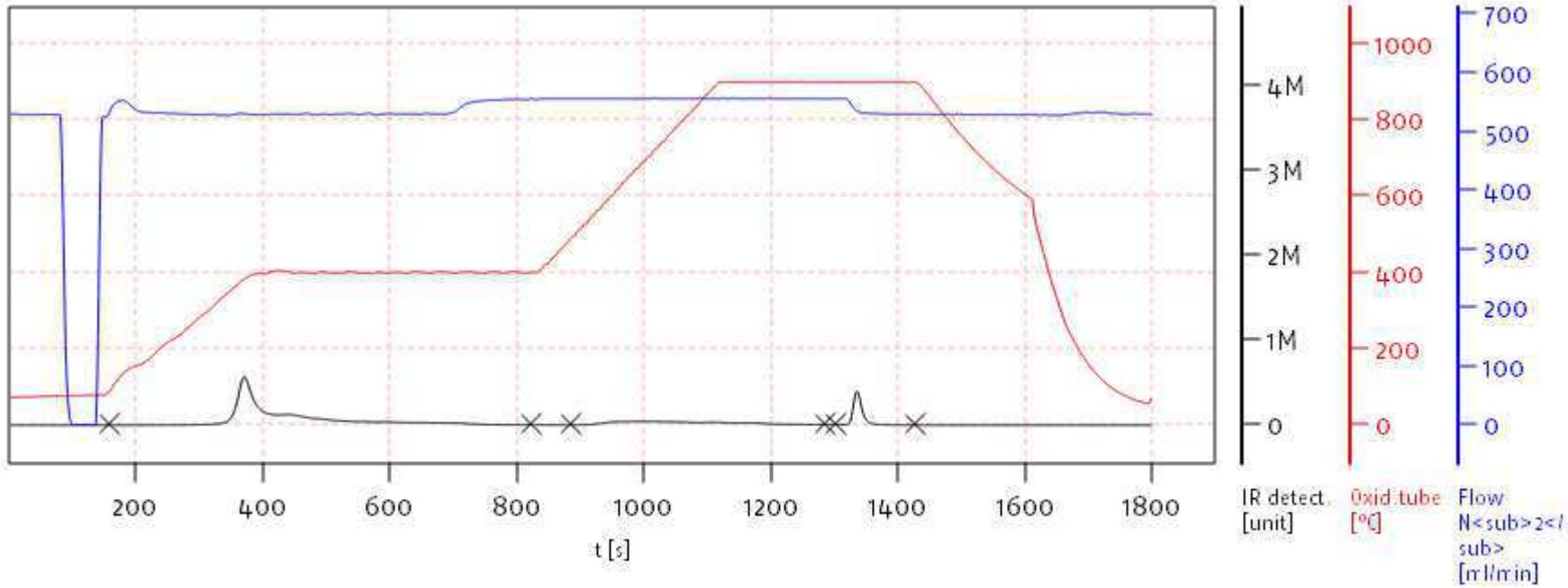
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
106	17	22L0105-26	191.60		CARBON	12/14/2022 2:22 PM	bl	1.223	1 389 902	1.505	0.178	246 736	375 985	1.045	0.282	0.9484	1.0000



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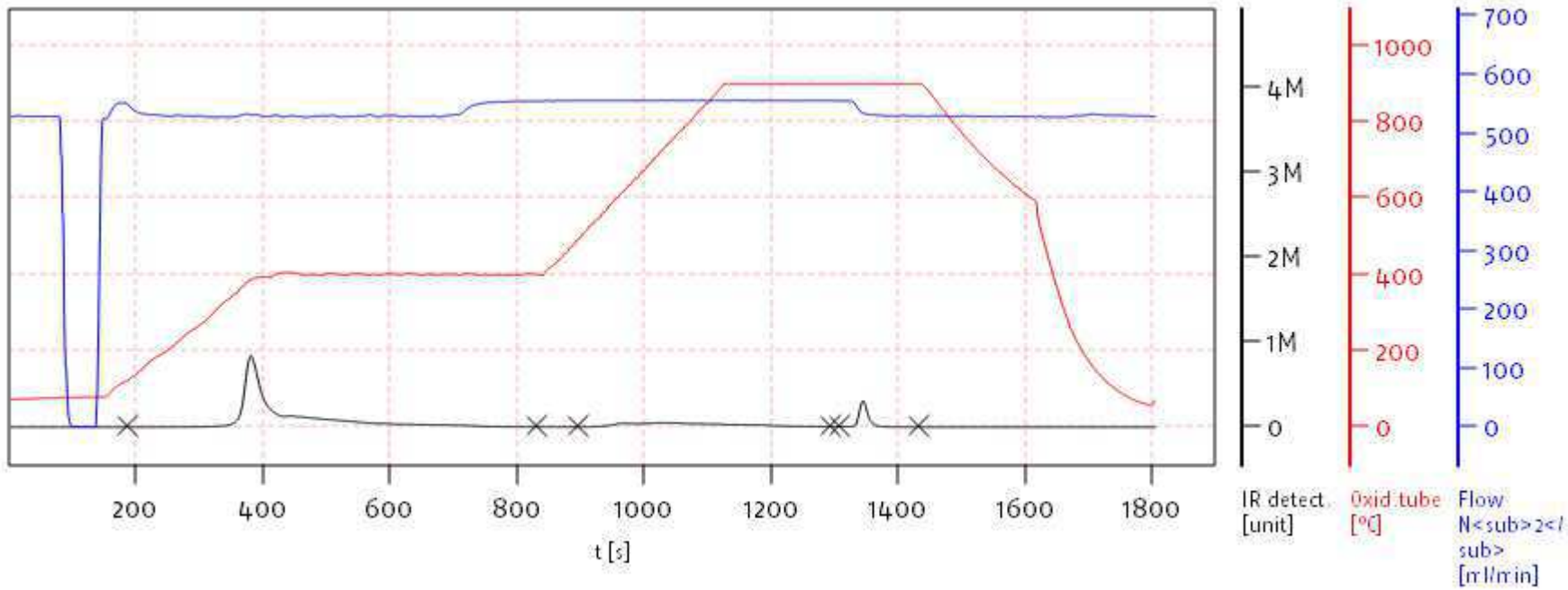
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
107	18	22L0105-27	221.50		CARBON	12/14/2022 2:52 PM	bl	1.249	1 739 346	1.508	0.114	189 458	396 344	1.135	0.258	0.9484	1.0000



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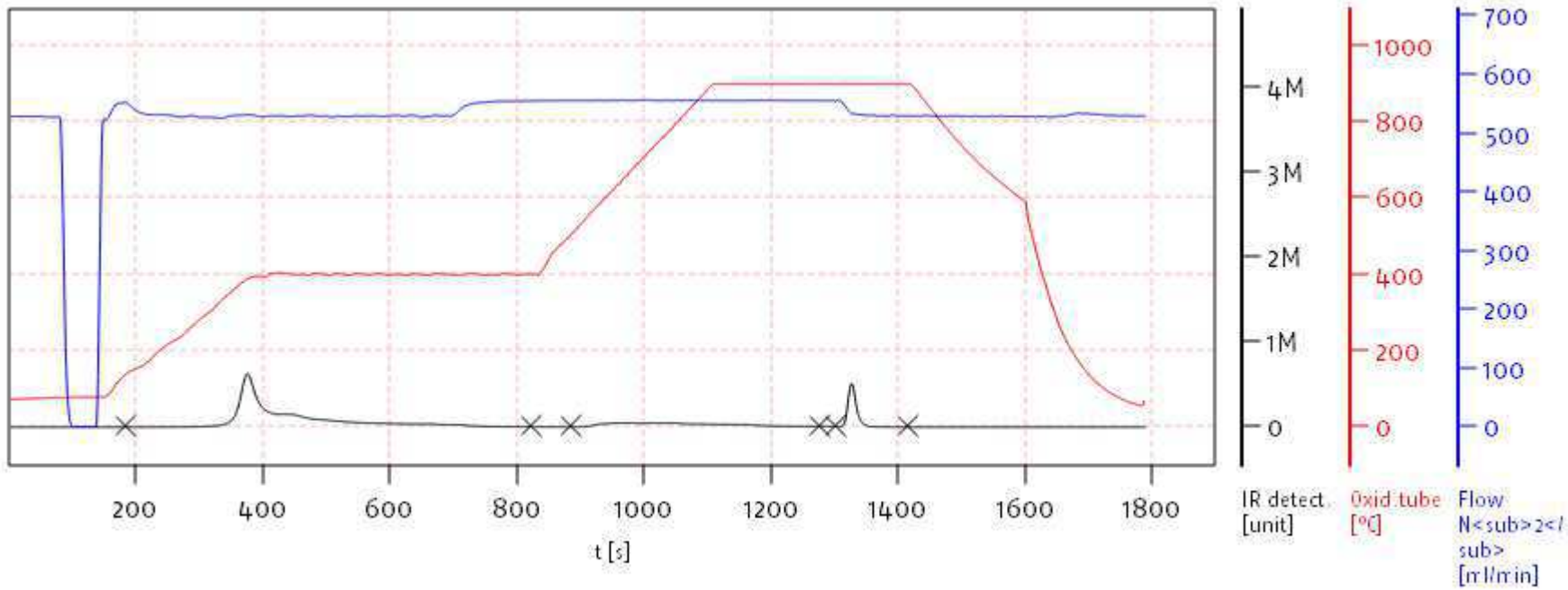
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
108	19	22L0105-28	228.70		CARBON	12/14/2022 3:22 PM	bl	1.212	1 624 005	1.481	0.187	302 472	423 172	1.025	0.268	0.9484	1.0000



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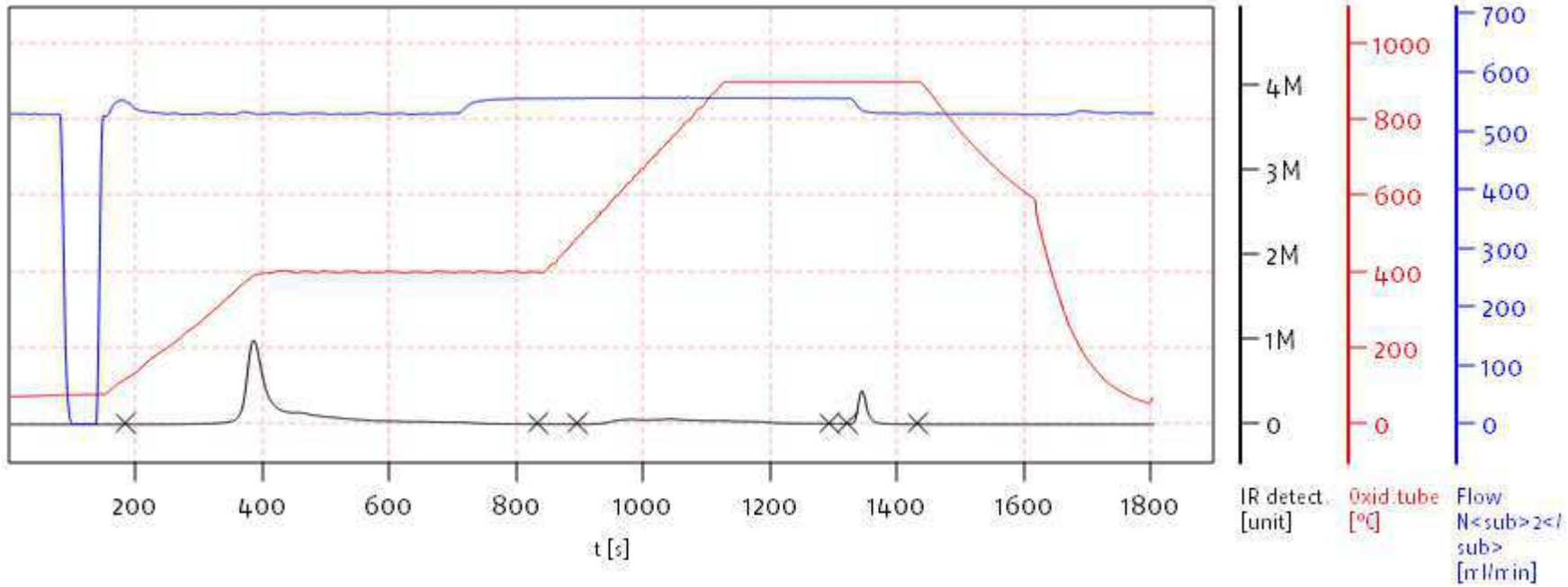
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
109	20	22L0105-29	255.30		CARBON	12/14/2022 3:53 PM	bl	1.270	1 999 816	1.555	0.135	249 281	496 196	1.135	0.285	0.9484	1.0000



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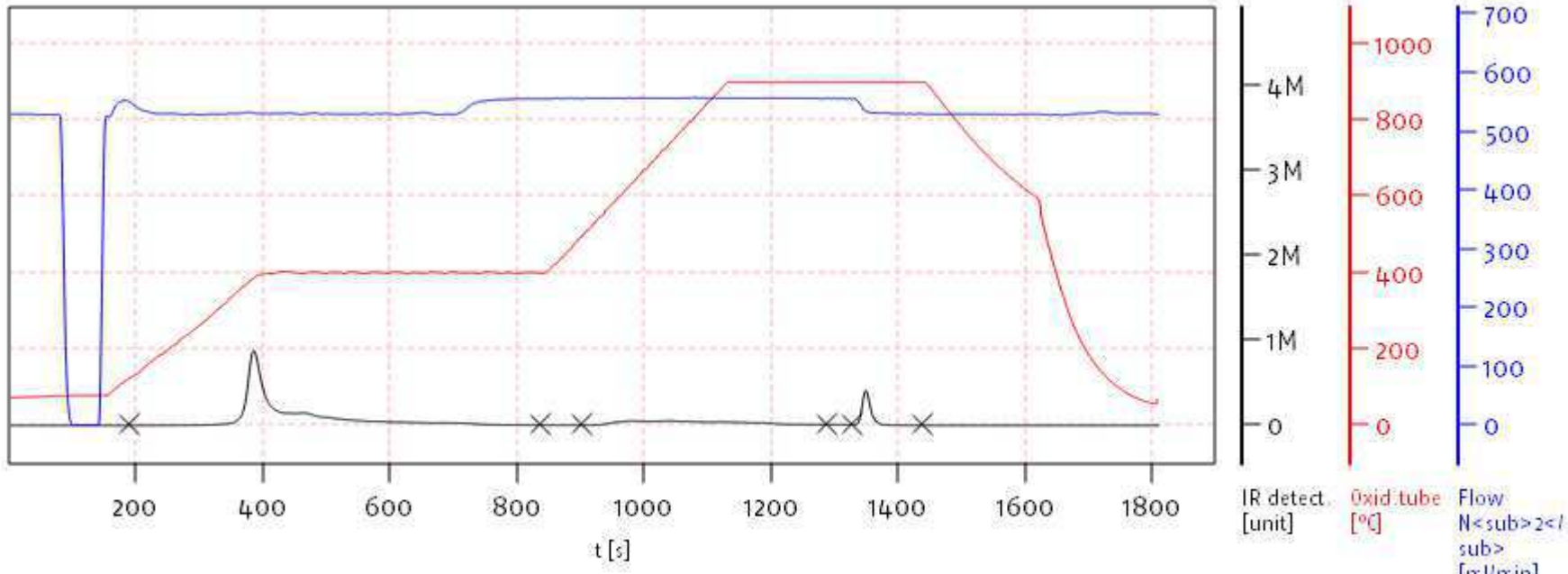
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
110	21	22L0105-30	234.00		CARBON	12/14/2022 4:23 PM	bl	1.260	1 804 148	1.546	0.145	245 035	459 068	1.115	0.286	0.9484	1.0000



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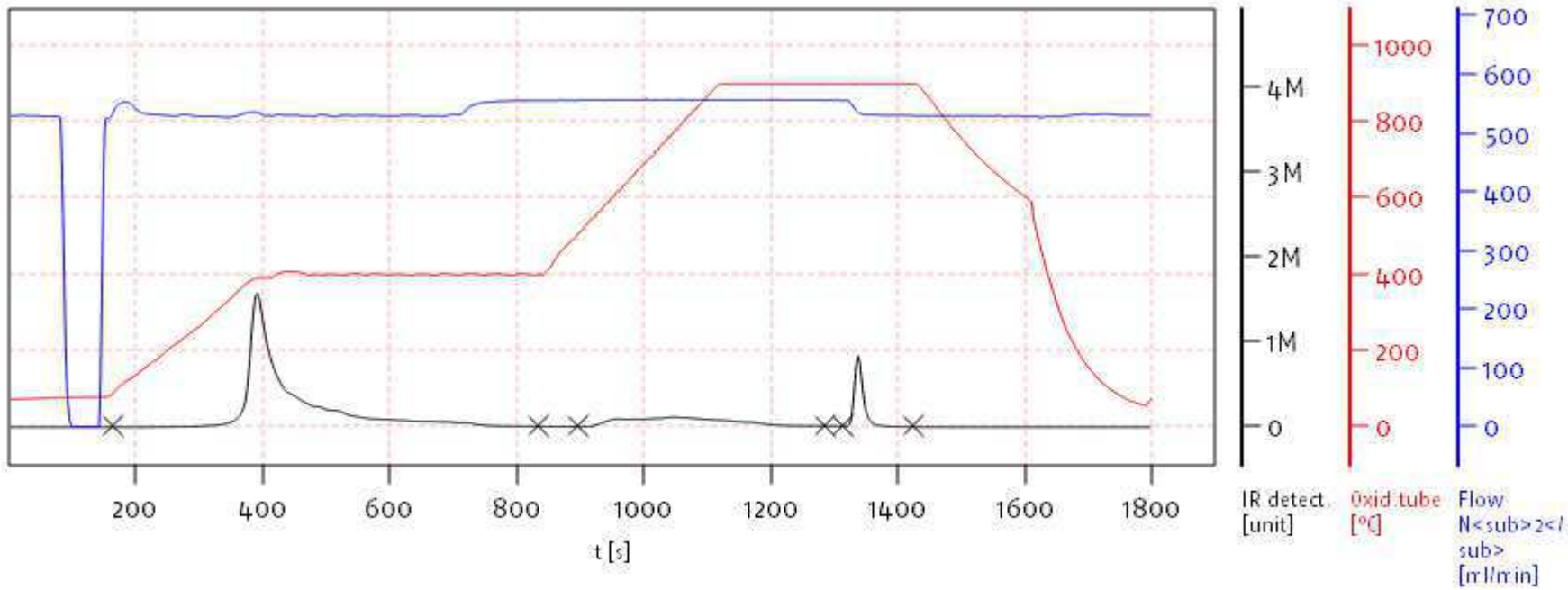
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
111	22	22L0105-31	534.70		CARBON	12/14/2022 4:54 PM	bl	1.217	3 941 826	1.477	0.142	518 699	923 282	1.075	0.260	0.9484	1.0000



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Balance: BAL3
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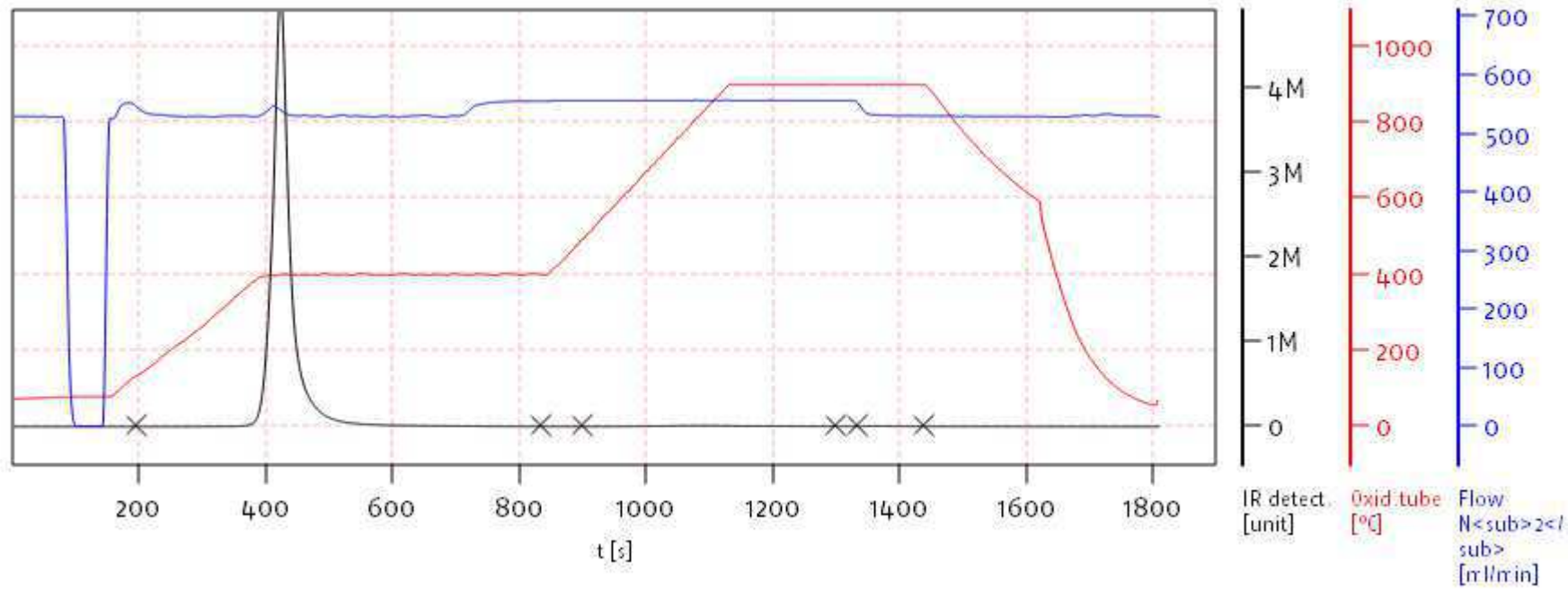
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
112	23	SKL0152-CCV9	20.30		CARBON	12/14/2022 5:24 PM	bl	44.994	6 247 971	45.442	0.000	16 759	85 385	44.994	0.449	0.9484	1.0000



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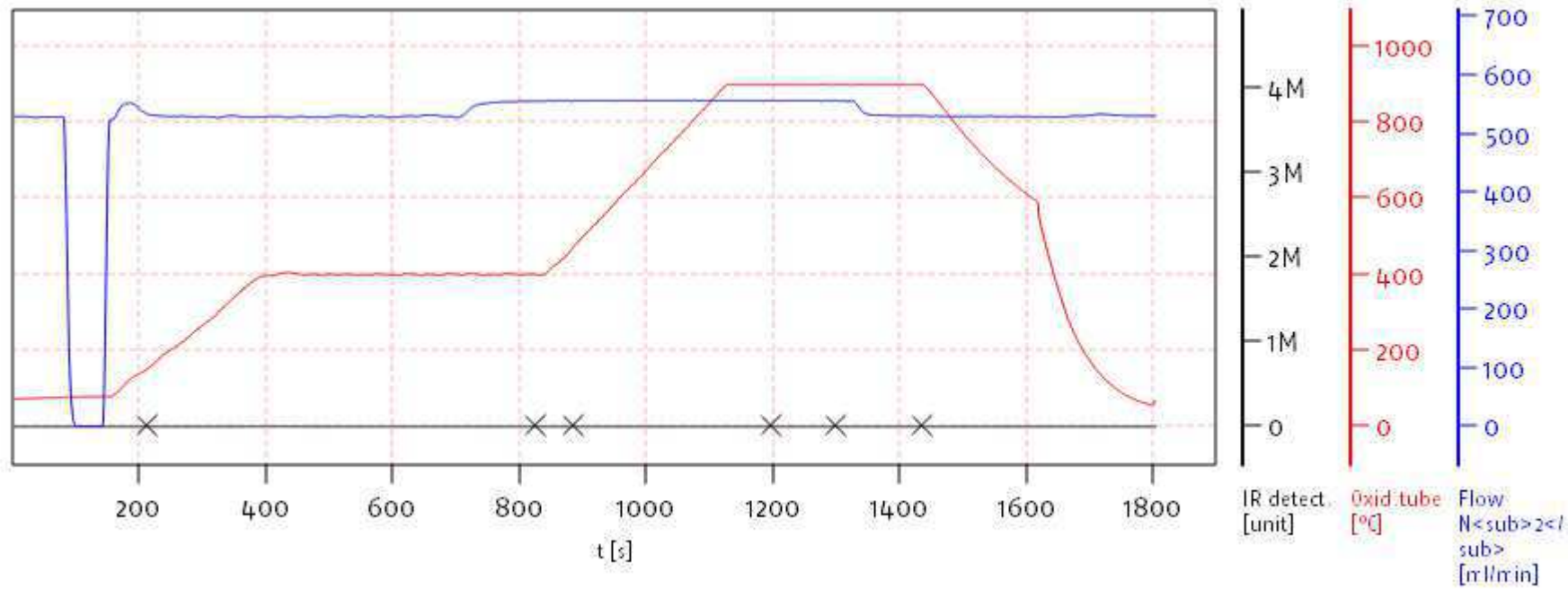
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
113	24	SKL0152-CCB9	500.50		CARBON	12/14/2022 5:55 PM	bl,C3u,C2u	0.000	7 661	0.000	0.000	300	156	0.000	0.000	0.9484	1.0000



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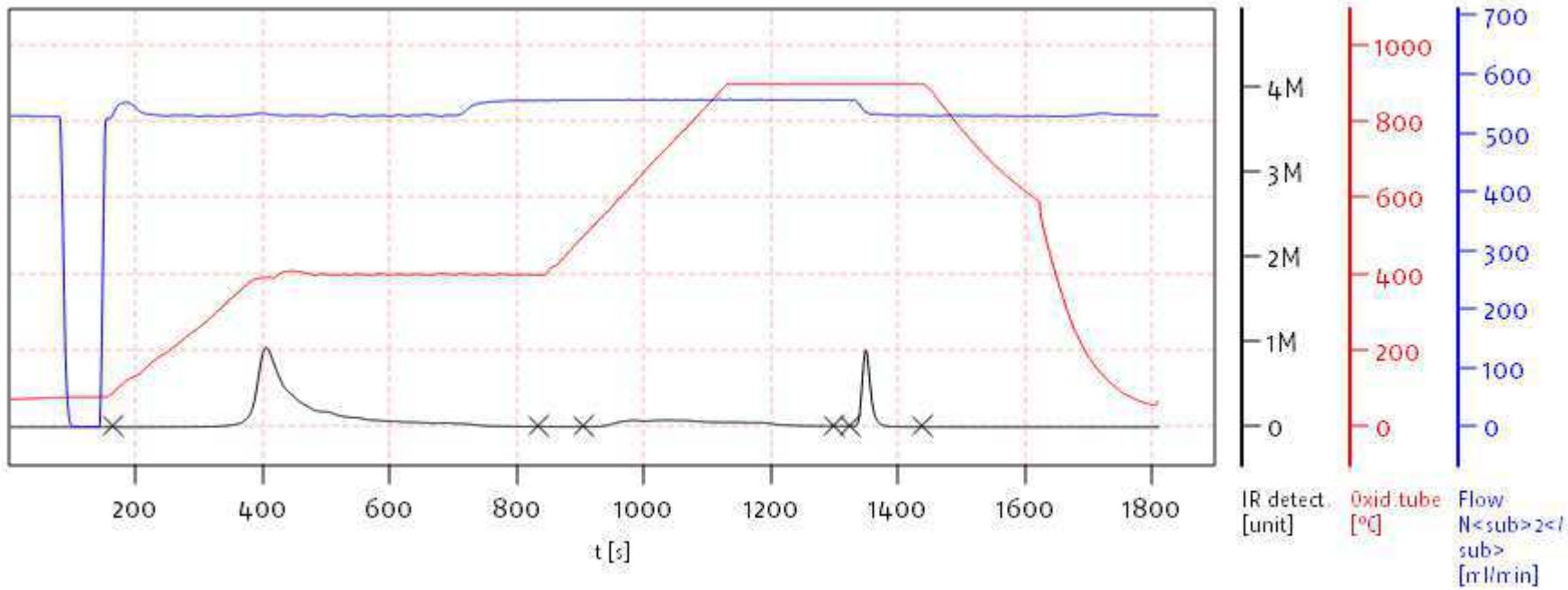
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
114	25	22L0105-32	523.40		CARBON	12/14/2022 6:25 PM	bl	0.924	2 779 605	1.124	0.152	538 972	702 108	0.772	0.200	0.9484	1.0000



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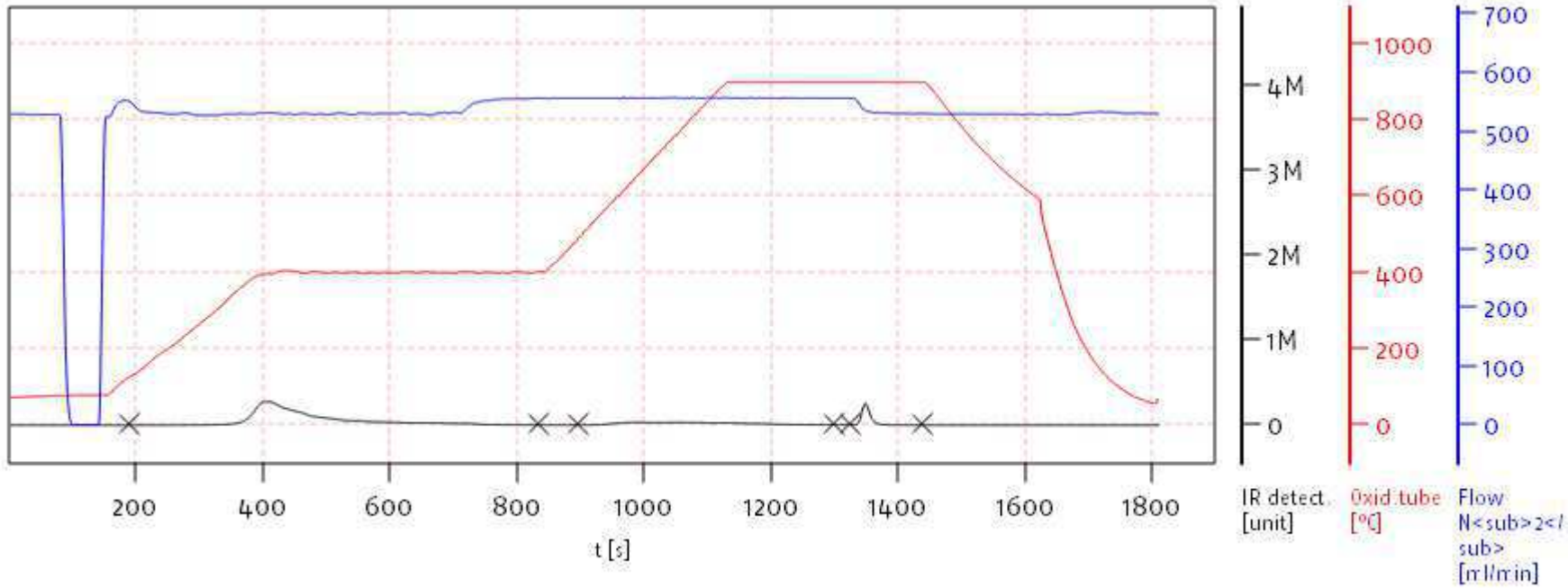
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
115	26	22L0105-33	301.00		CARBON	12/14/2022 6:56 PM	bl	0.636	1 196 714	0.769	0.065	153 681	285 003	0.571	0.133	0.9484	1.0000



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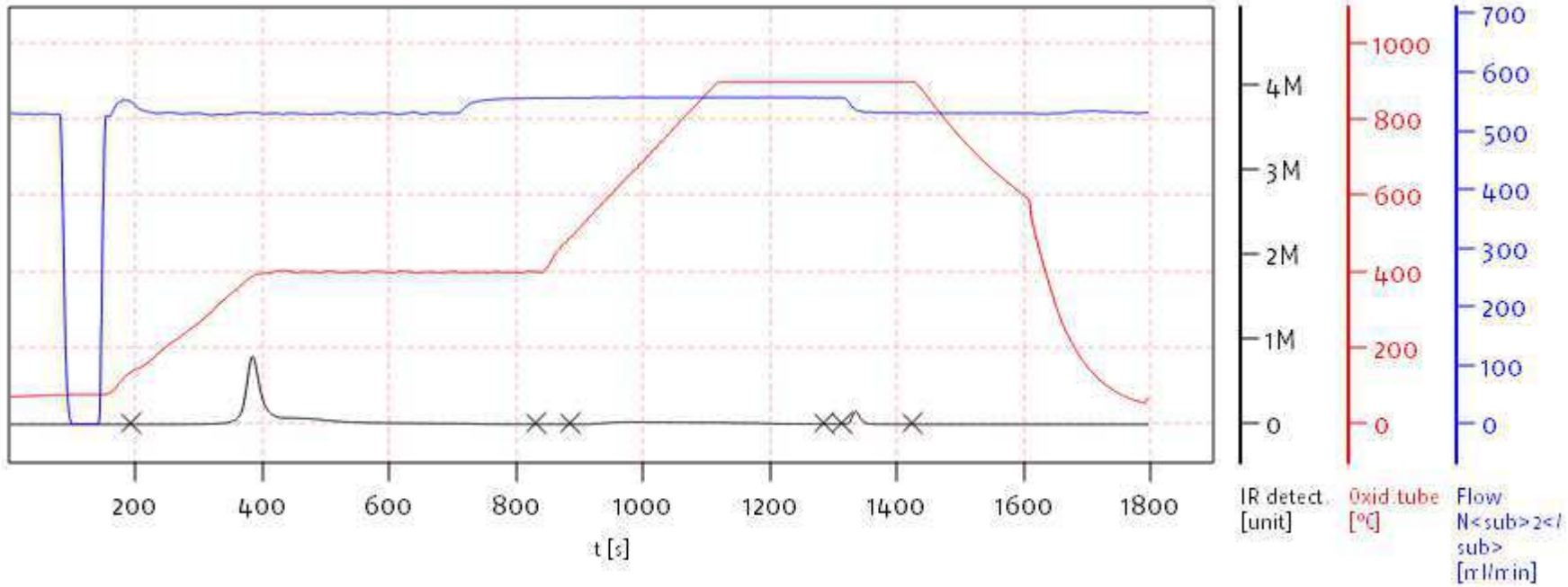
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
116	27	22L0136-01	183.50		CARBON	12/14/2022 7:26 PM	bl	1.018	1 230 781	1.200	0.055	91 208	242 298	0.963	0.182	0.9484	1.0000



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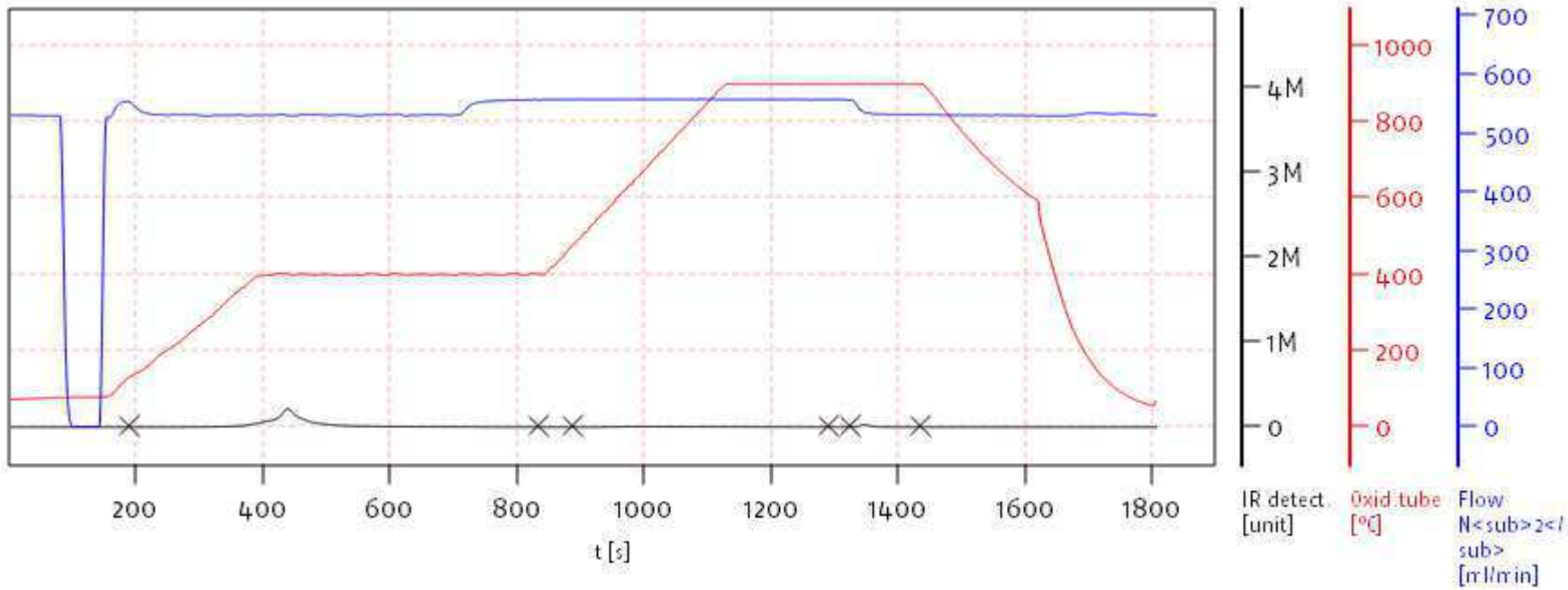
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
117	28	22L0136-02	540.40		CARBON	12/14/2022 7:57 PM	bl	0.132	512 260	0.138	0.000	20 650	46 442	0.132	0.006	0.9484	1.0000



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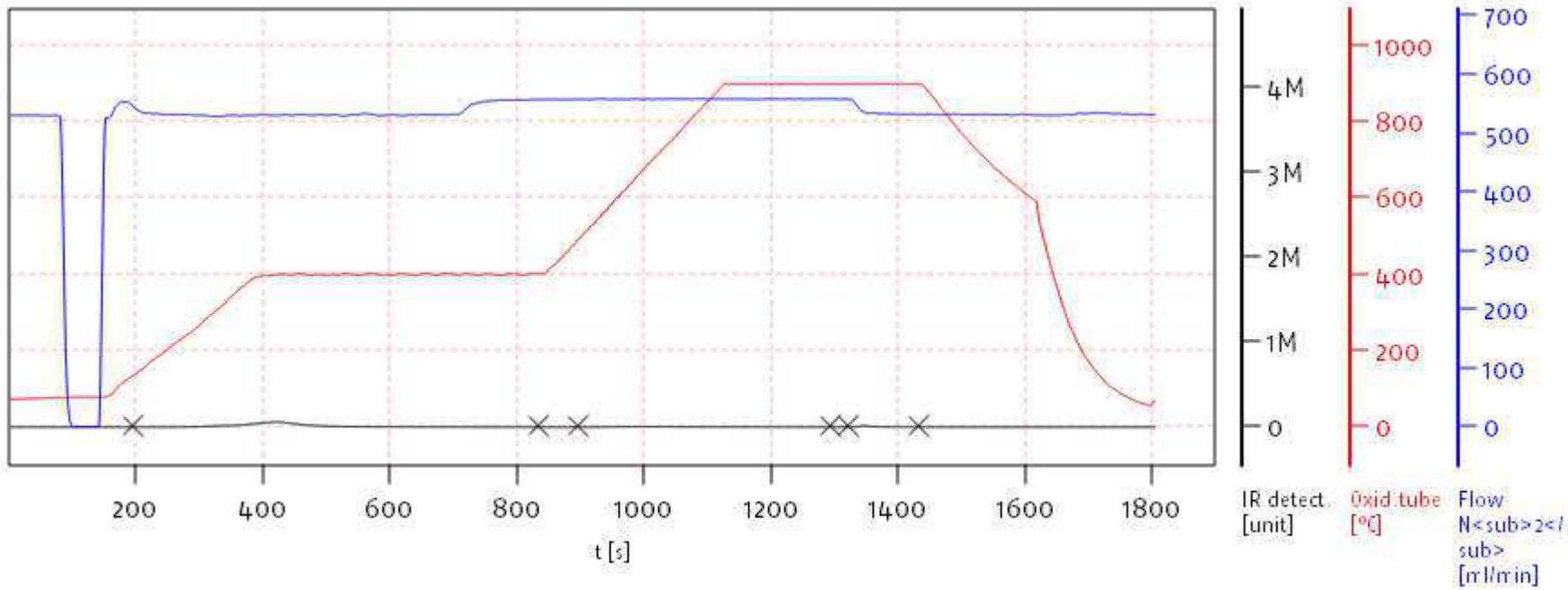
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
118	29	22L0136-03	590.90		CARBON	12/14/2022 8:27 PM	bl	0.058	258 362	0.059	0.000	15 354	31 341	0.058	0.001	0.9484	1.0000



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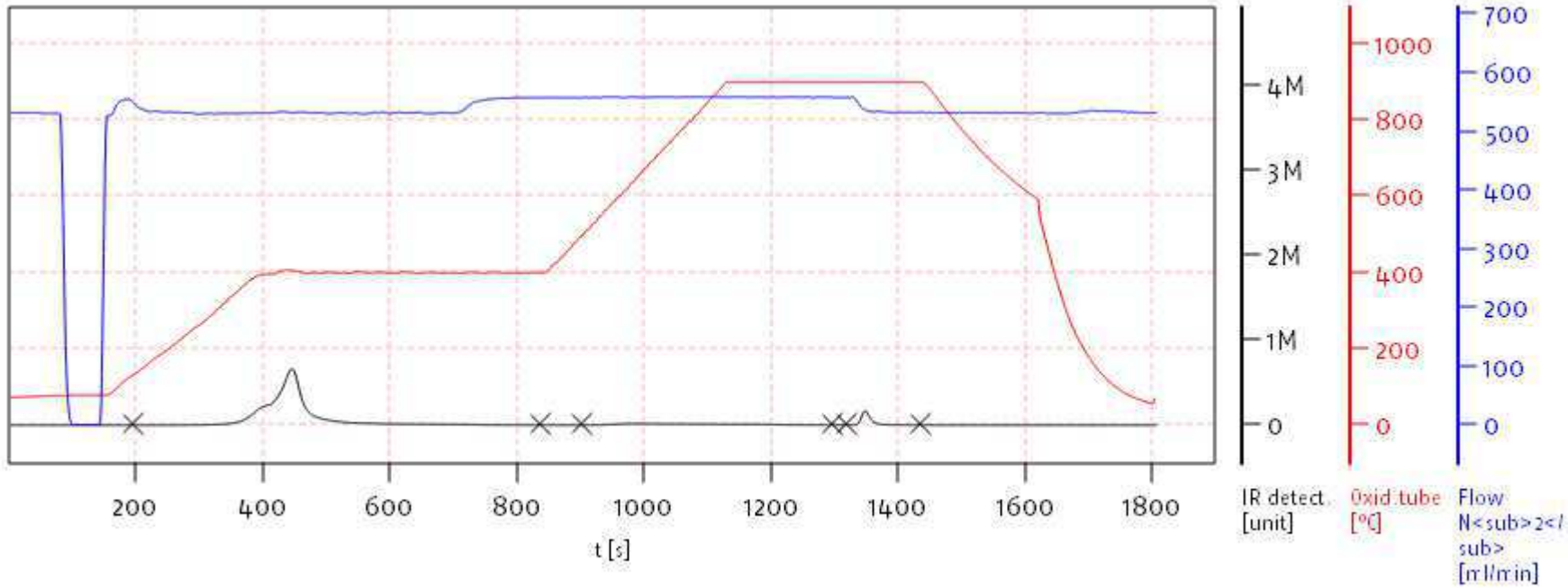
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
119	30	22L0136-04	274.60		CARBON	12/14/2022 8:58 PM	bl	0.841	1 513 399	0.904	0.046	108 906	137 370	0.795	0.062	0.9484	1.0000



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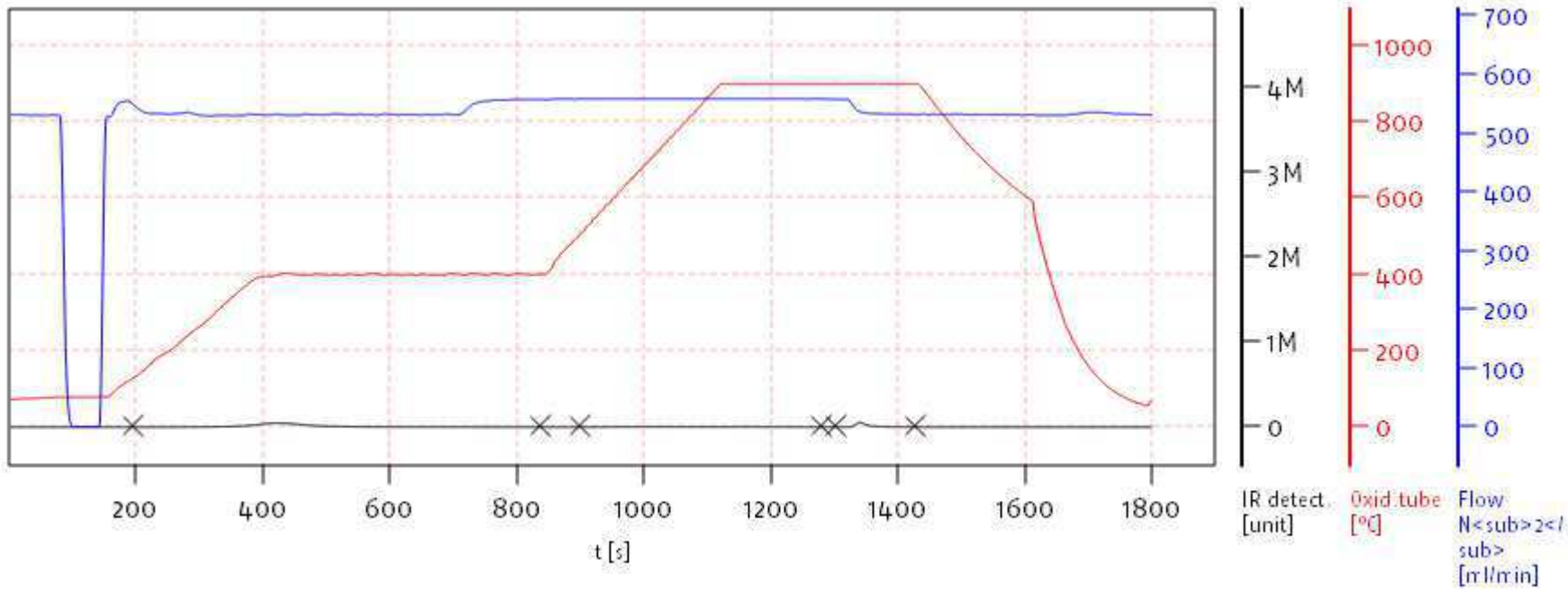
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
120	31	22L0136-05	543.20		CARBON	12/14/2022 9:28 PM	bl	0.050	191 727	0.051	0.006	46 299	29 372	0.045	0.001	0.9484	1.0000



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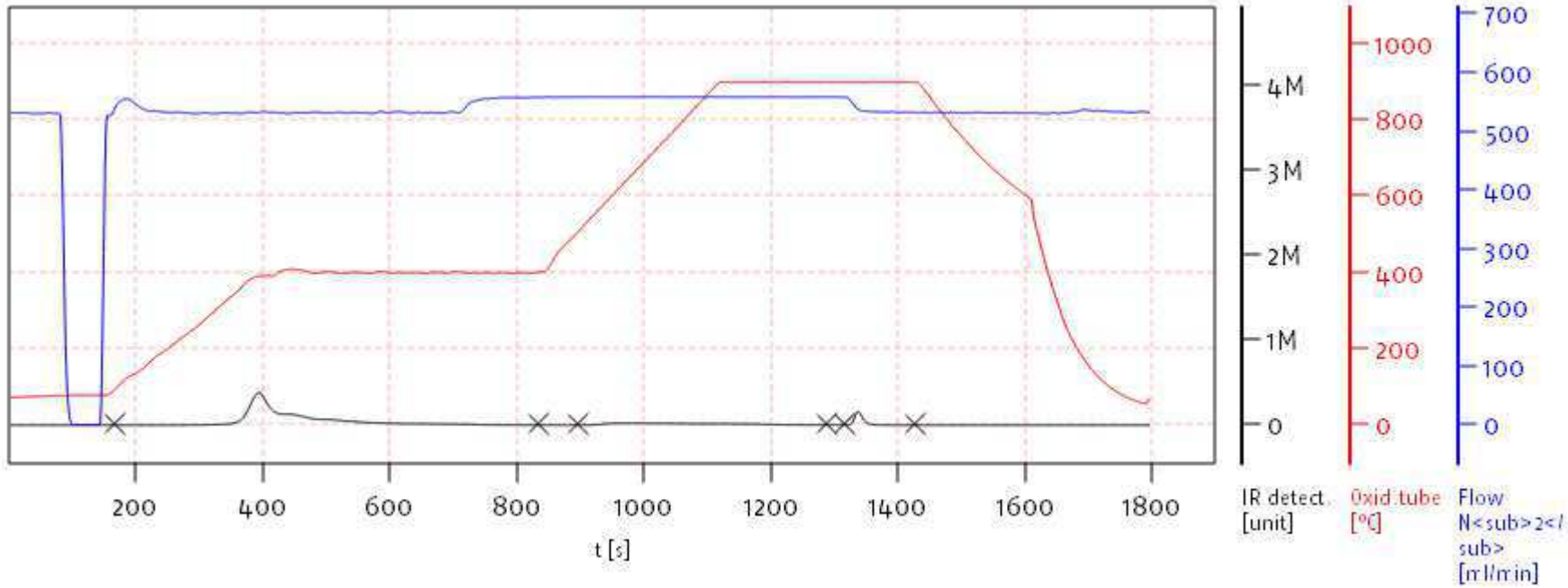
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
121	32	22L0136-06	225.20		CARBON	12/14/2022 9:59 PM	bl	0.739	1 088 520	0.854	0.046	94 112	193 738	0.692	0.115	0.9484	1.0000



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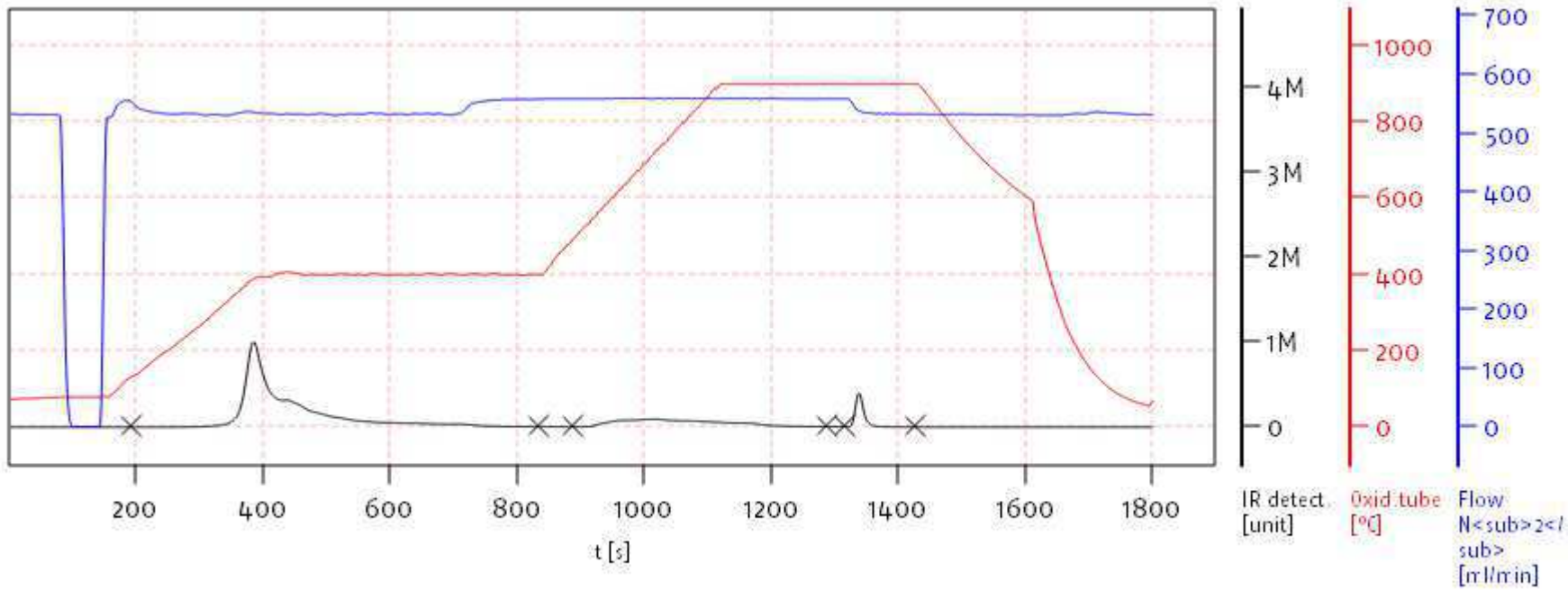
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
122	33	22L0136-07	535.80		CARBON	12/14/2022 10:29 PM	bl	0.784	2 668 539	0.980	0.060	234 176	705 890	0.724	0.196	0.9484	1.0000



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Balance: BAL3
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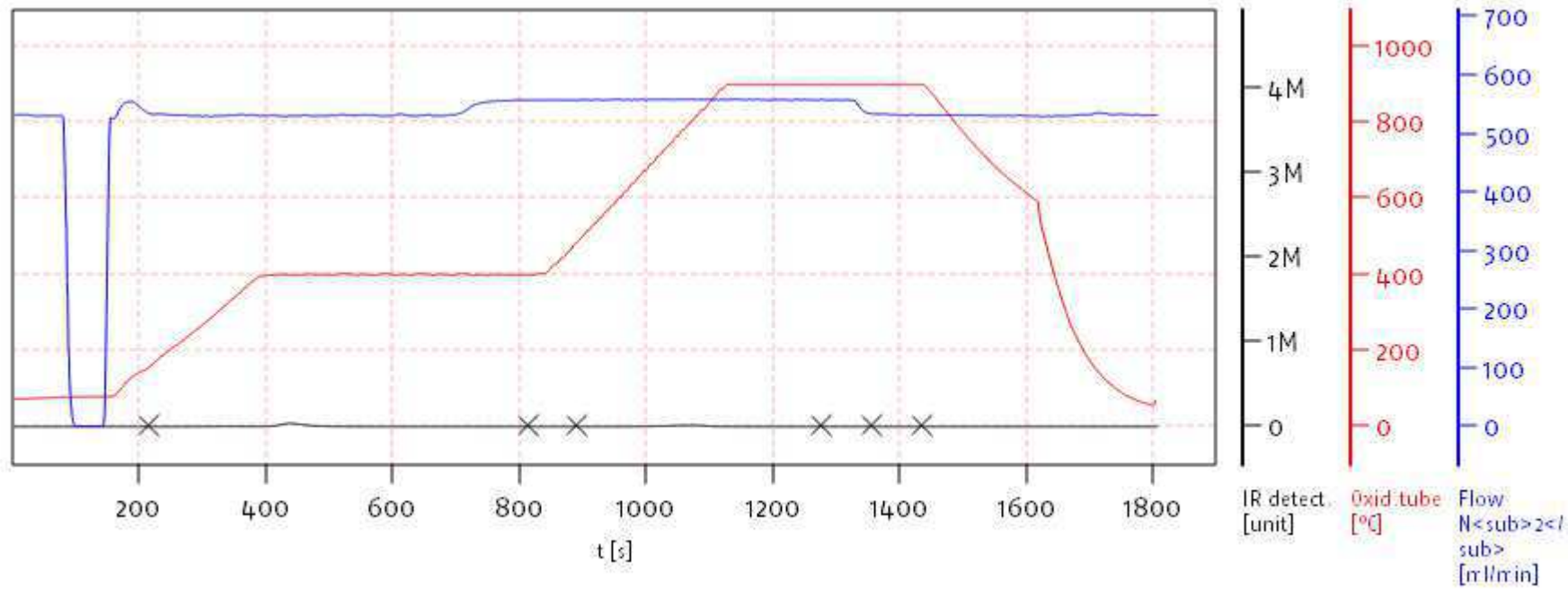
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
123	34	BKL0299-MRL1	609.80		CARBON	12/14/2022 11:00 PM	bl,C2u	0.012	77 830	0.016	0.000	136	41 815	0.012	0.004	0.9484	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
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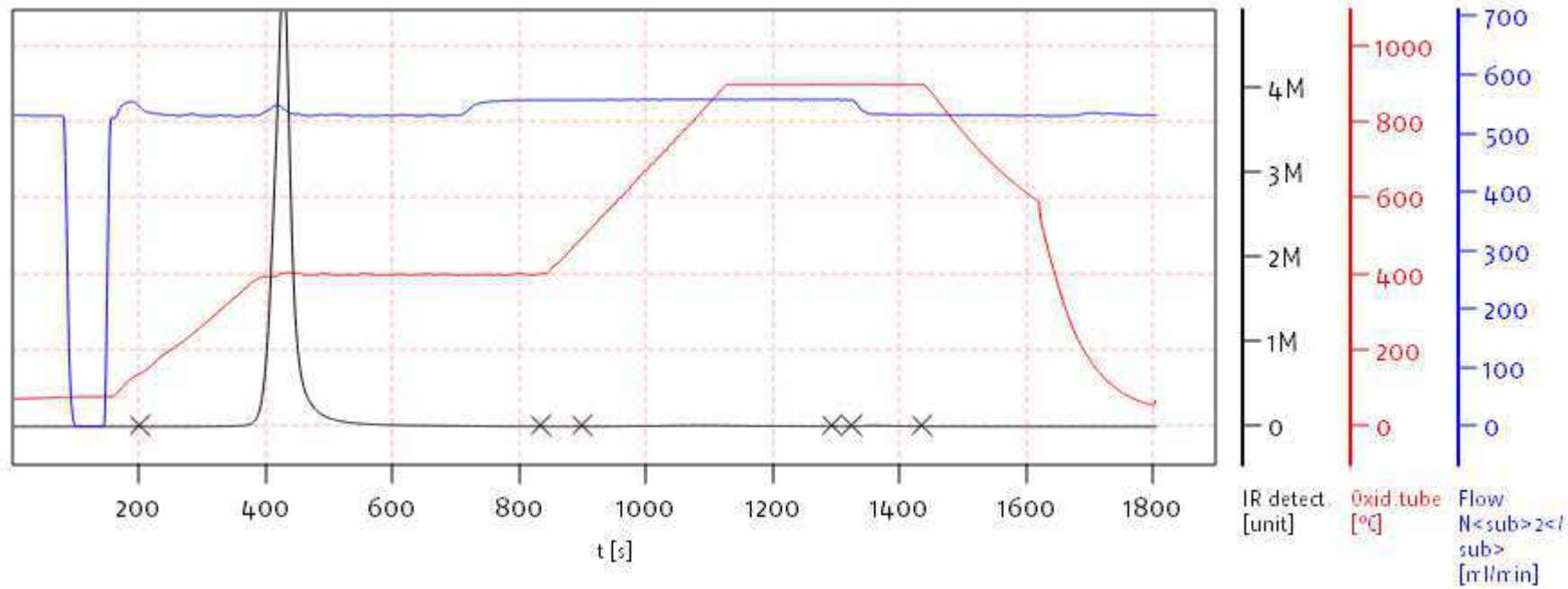
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
124	35	SKL0152-CCVA	21.80		CARBON	12/14/2022 11:30 PM	bl	44.895	6 693 095	45.422	0.000	26 474	100 719	44.895	0.527	0.9484	1.0000



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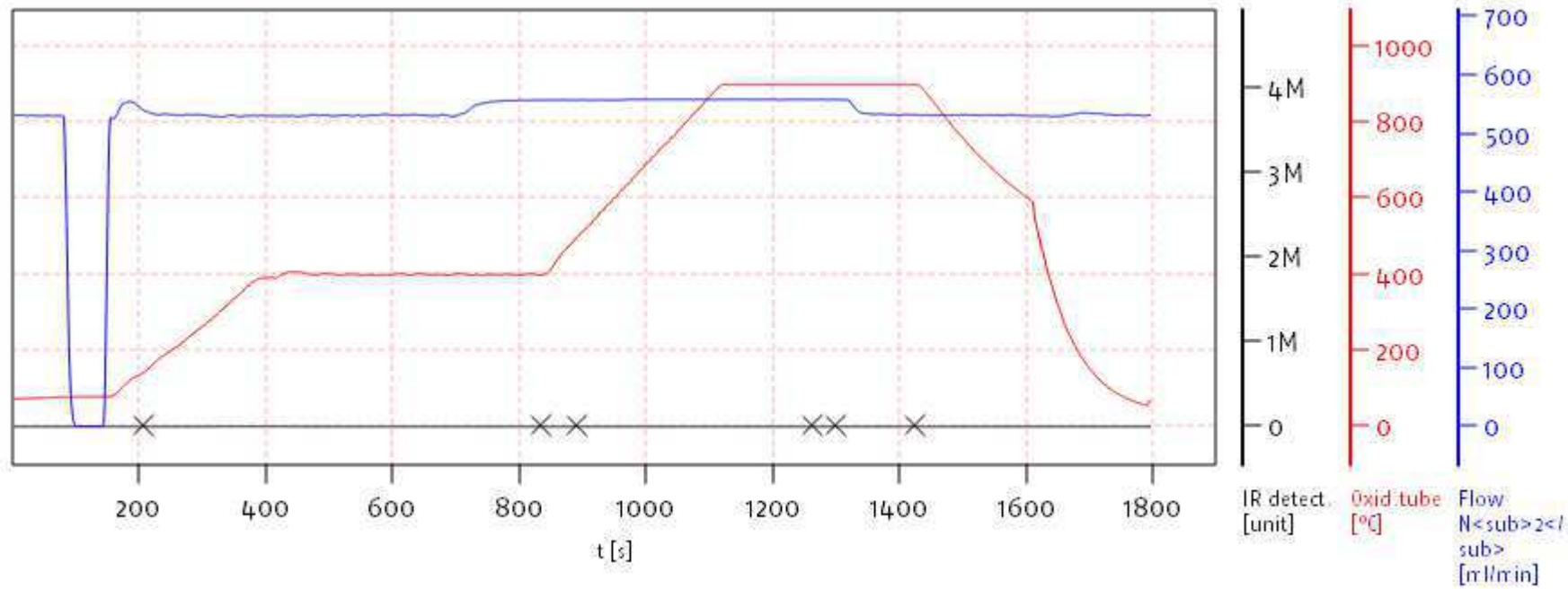
Date: Fri Dec 16 09:43:23 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
125	36	SKL0152-CCBA	523.00		CARBON	12/15/2022 12:01 AM	bl,C3u,C2u	0.000	8 781	0.000	0.000	293	117	0.000	0.000	0.9484	1.0000



Name:

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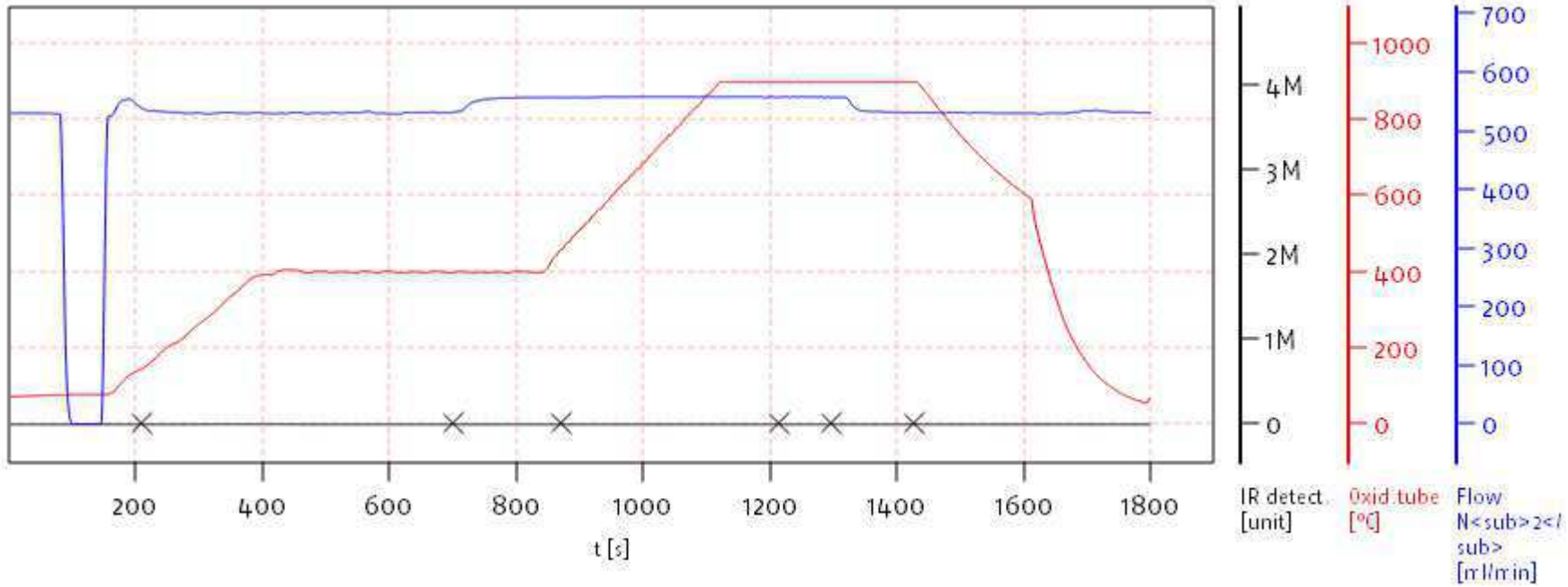
Date: Fri Dec 16 09:43:23 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
126	37	BKL0299-BLK1	503.30		CARBON	12/15/2022 12:31 AM	bl,C3u,C2u	0.000	10 828	0.000	0.000	620	1 875	0.000	0.000	0.9484	1.0000



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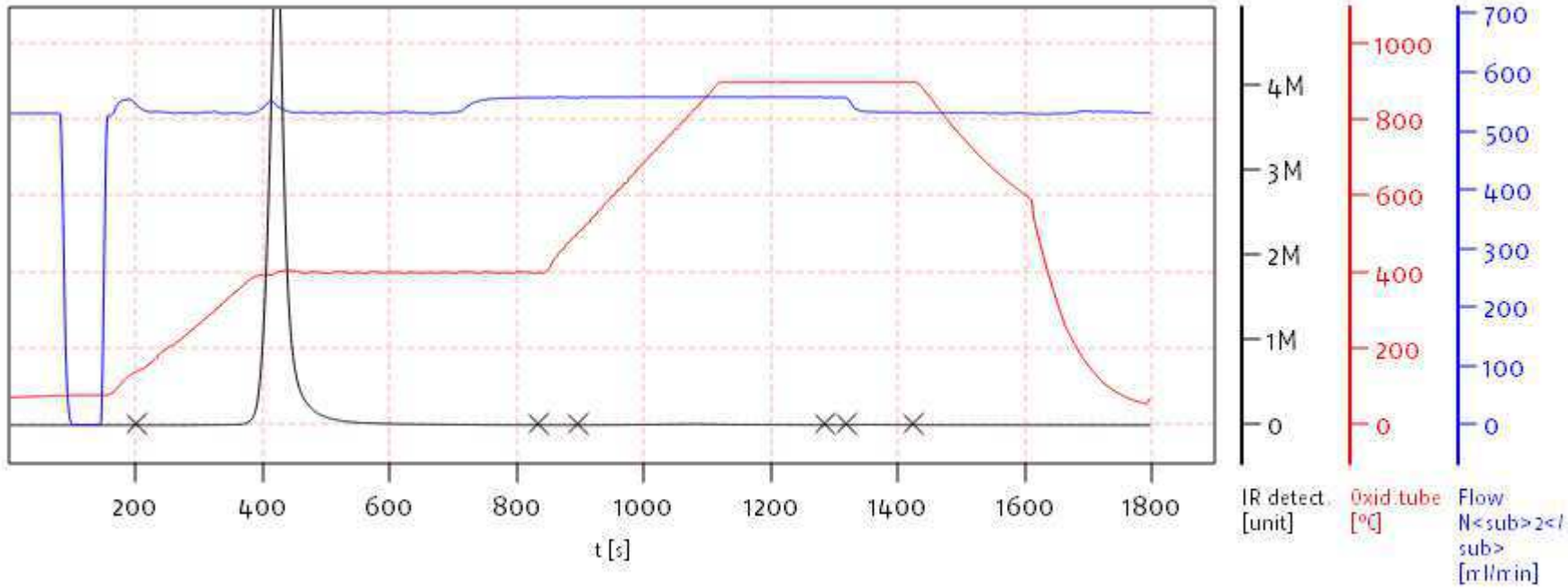
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
127	38	BKL0299-BS1	21.50		CARBON	12/15/2022 1:01 AM	bl	45.092	6 630 122	45.506	0.000	15 893	84 084	45.092	0.414	0.9484	1.0000



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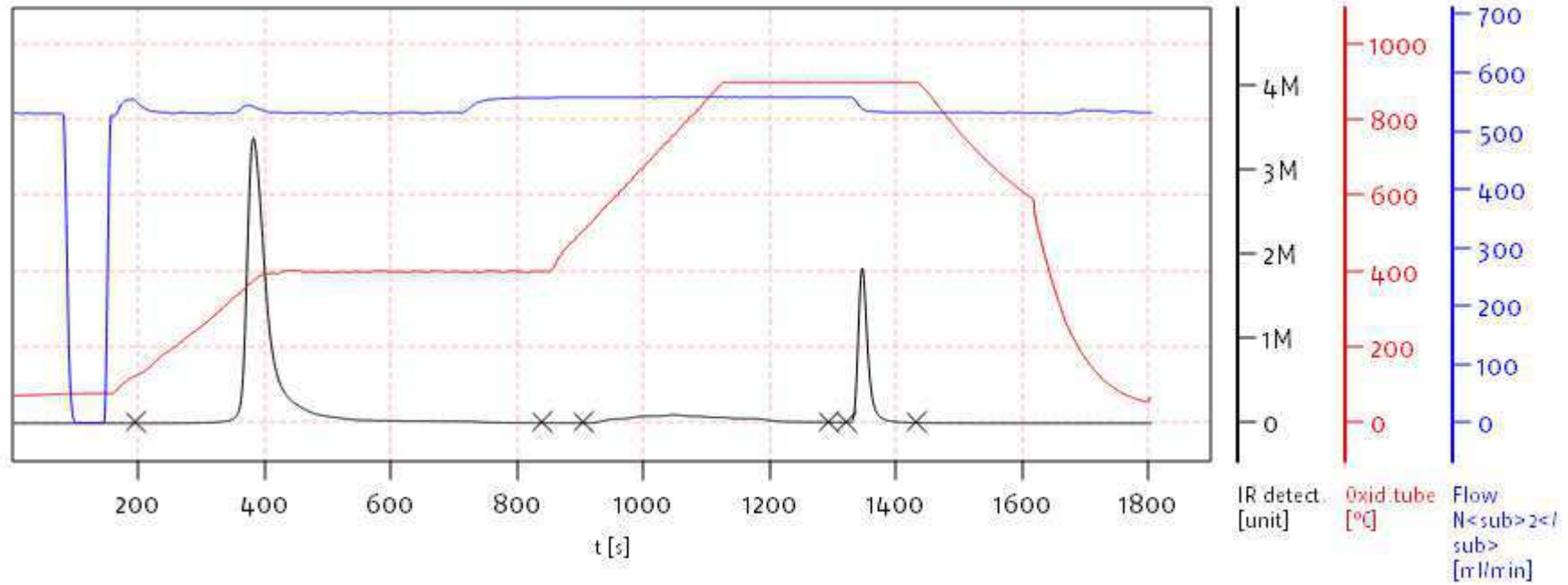
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
128	39	BKL0299-SRM1	312.10		CARBON	12/15/2022 1:32 AM	bl	2.974	5 071 270	3.334	0.601	1 237 630	752 070	2.373	0.360	0.9484	1.0000



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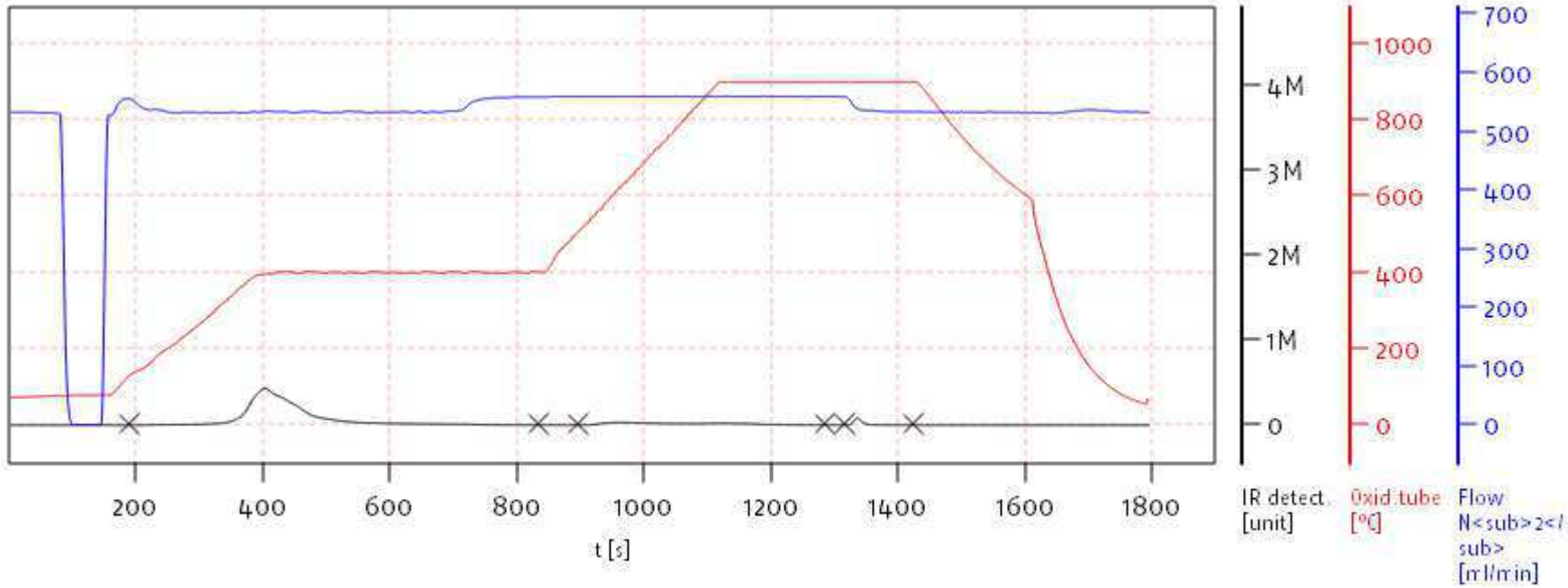
Date: Fri Dec 16 09:43:23 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
129	40	22L0136-08	506.80		CARBON	12/15/2022 2:02 AM	bl	0.455	1 574 357	0.516	0.007	49 685	224 627	0.448	0.061	0.9484	1.0000



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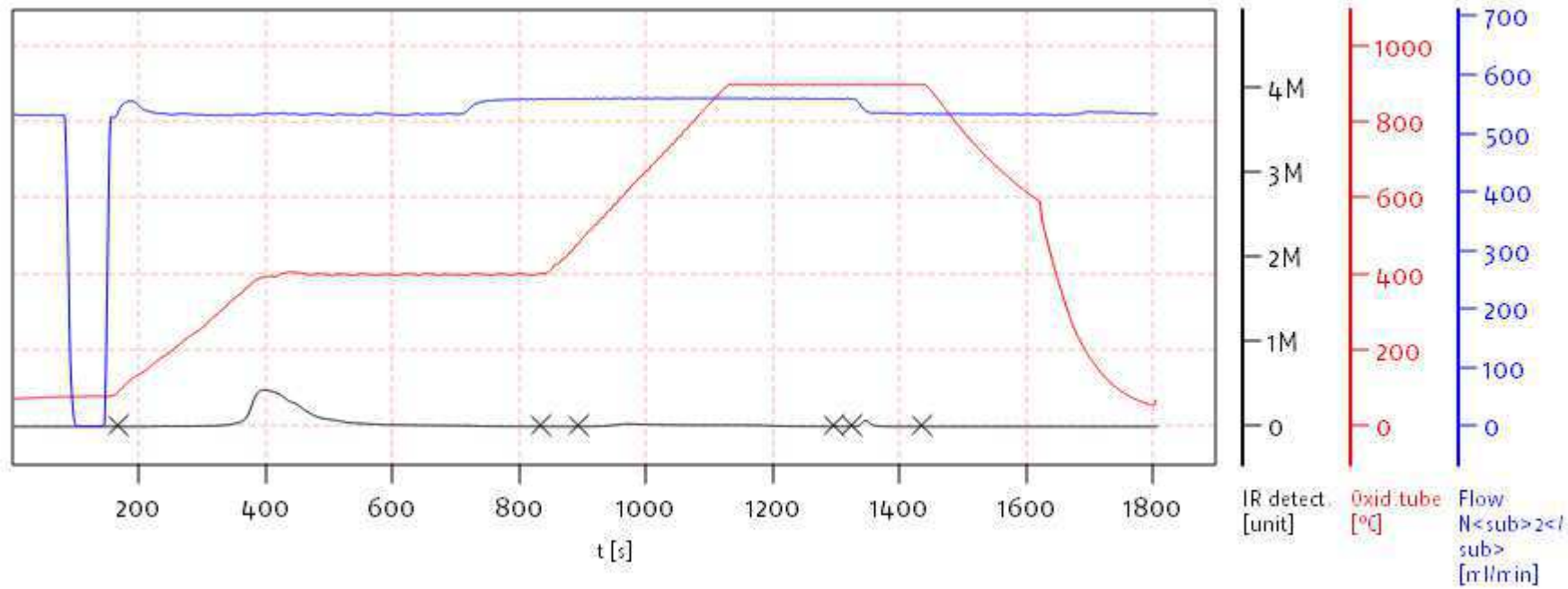
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
130	41	BKL0299-DUP1	521.00		CARBON	12/15/2022 2:33 AM	bl	0.466	1 658 477	0.522	0.006	45 880	215 999	0.460	0.056	0.9484	1.0000



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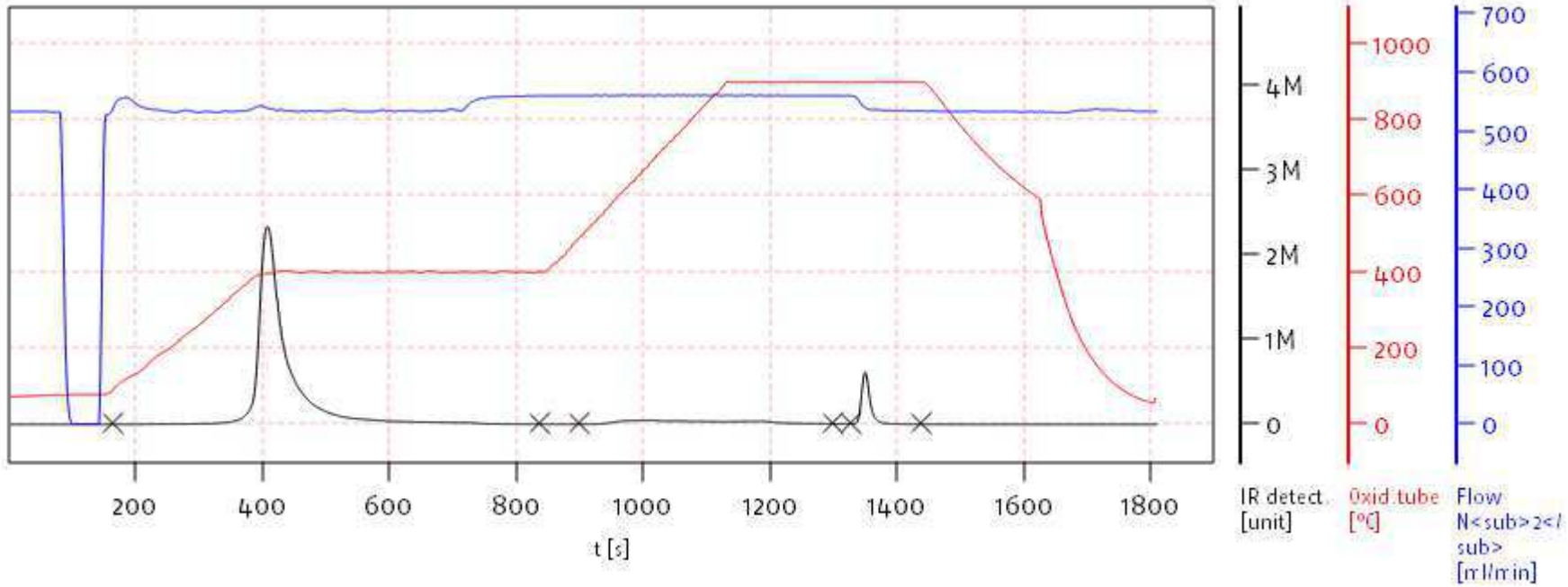
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
131	42	BKL0299-MS1	501.90	0.0107	CARBON	12/15/2022 3:03 AM	bl	1.370	4 354 155	1.490	0.104	364 696	415 500	1.266	0.120	0.9484	1.0000



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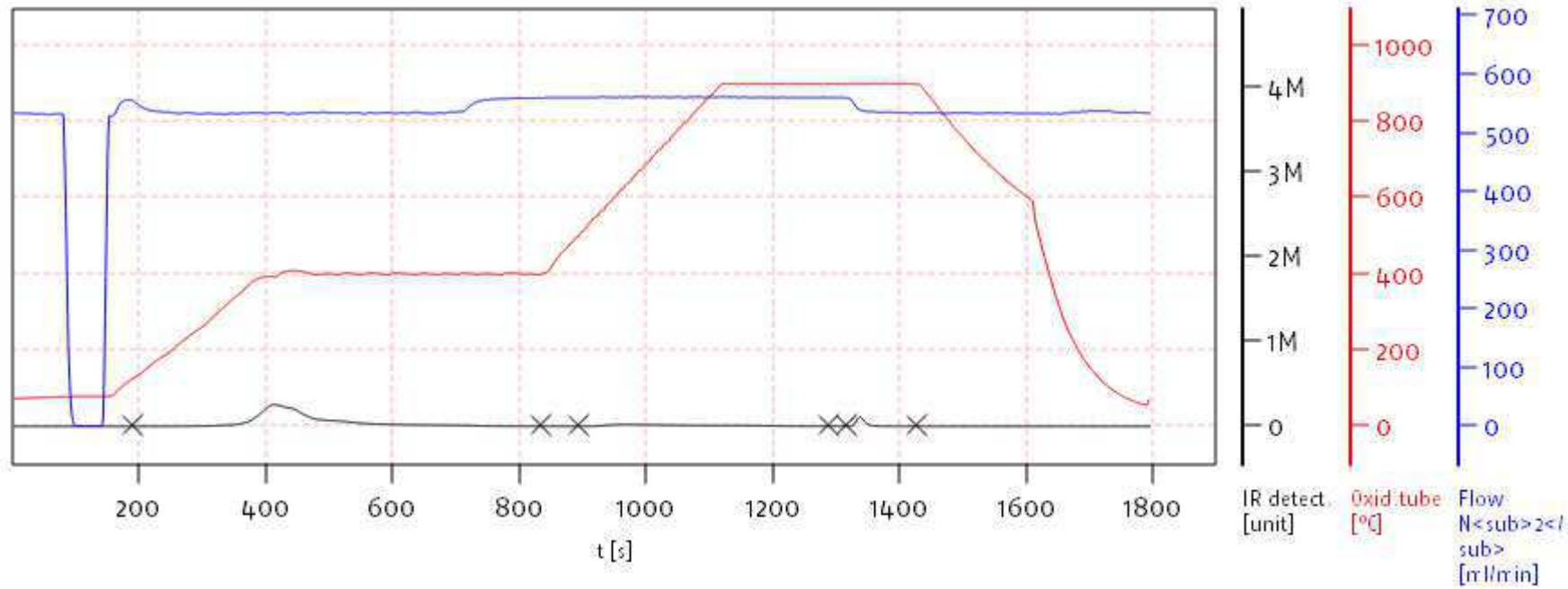
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
132	43	22L0136-09	506.60		CARBON	12/15/2022 3:34 AM	bl	0.310	1 053 588	0.348	0.013	68 137	148 820	0.298	0.037	0.9484	1.0000



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Serial No: 0300.181017
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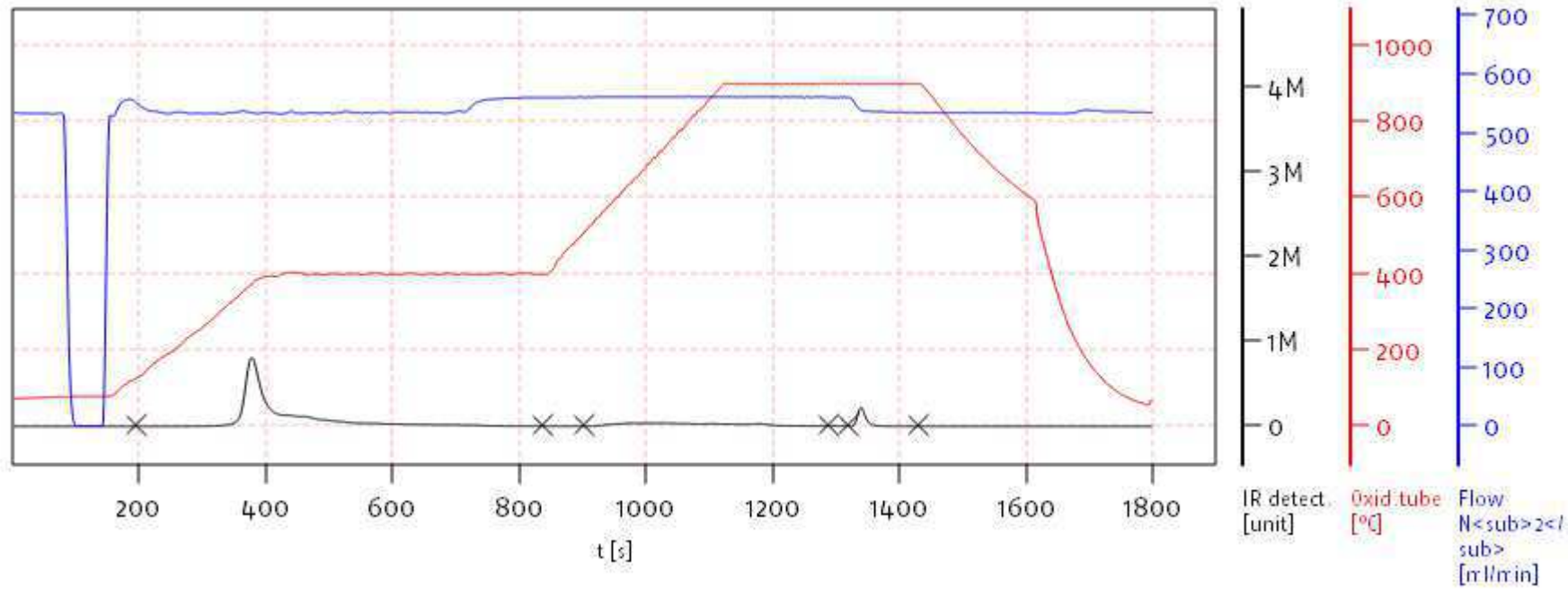
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
133	44	22L0136-10	222.90		CARBON	12/15/2022 4:04 AM	bl	1.100	1 588 962	1.310	0.071	128 884	328 625	1.029	0.210	0.9484	1.0000



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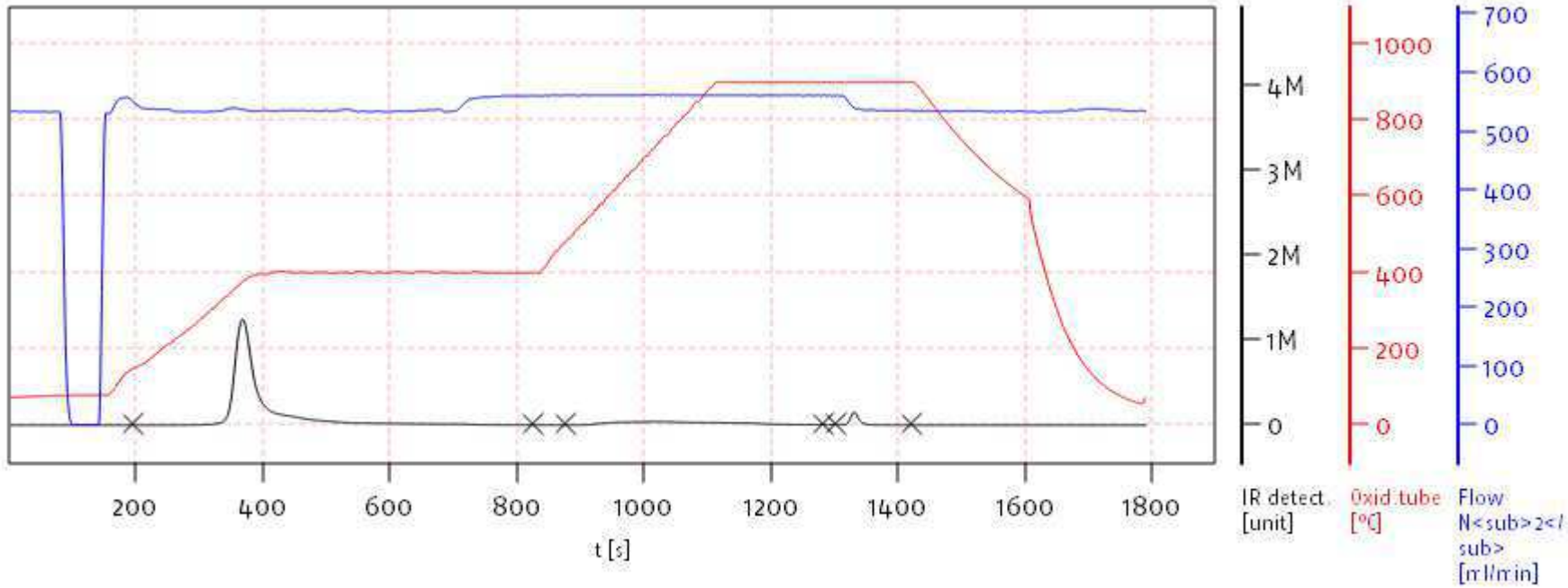
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
134	45	22L0136-11	246.60		CARBON	12/15/2022 4:34 AM	bl	1.268	2 087 892	1.464	0.041	91 303	338 904	1.227	0.196	0.9484	1.0000



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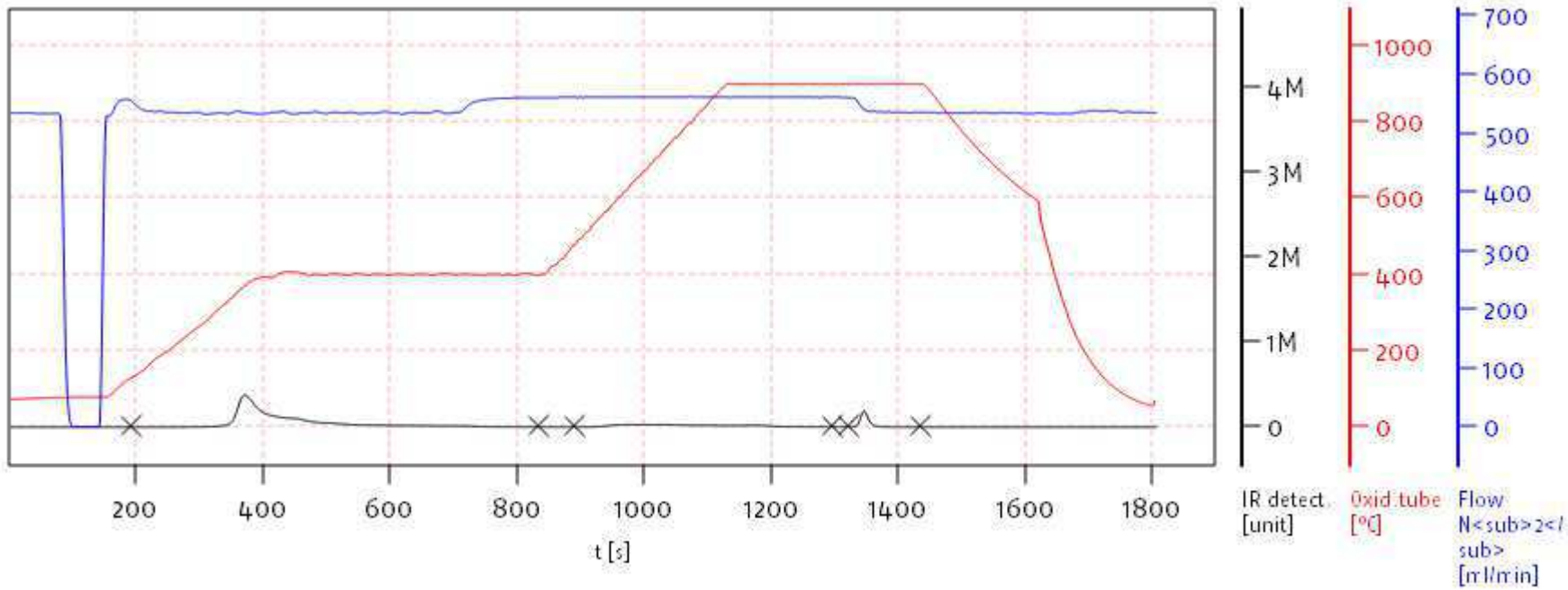
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
135	46	22L0136-12	158.00		CARBON	12/15/2022 5:05 AM	bl	1.051	1 071 049	1.267	0.081	108 867	246 642	0.971	0.216	0.9484	1.0000



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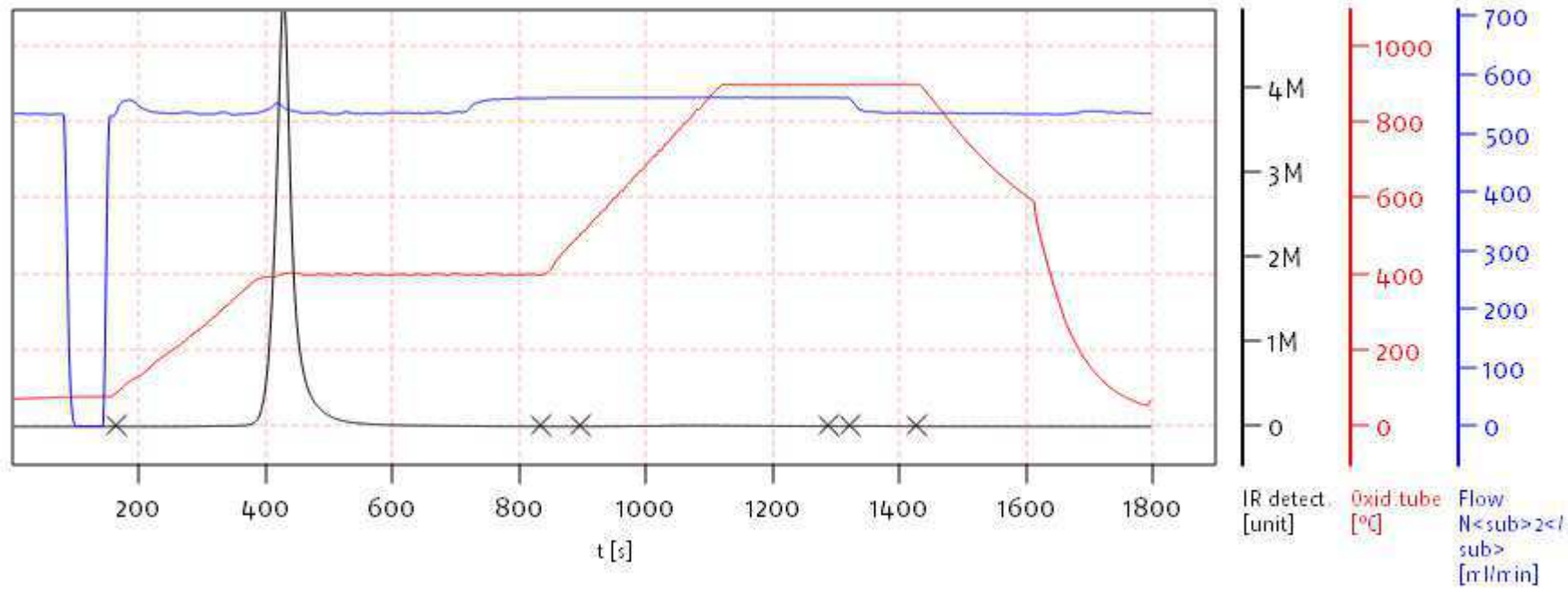
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
136	47	SKL0152-CCVB	20.50		CARBON	12/15/2022 5:35 AM	bl	44.846	6 288 696	45.451	0.000	19 522	106 640	44.846	0.605	0.9484	1.0000



Name:

Access: soliTOC superuser

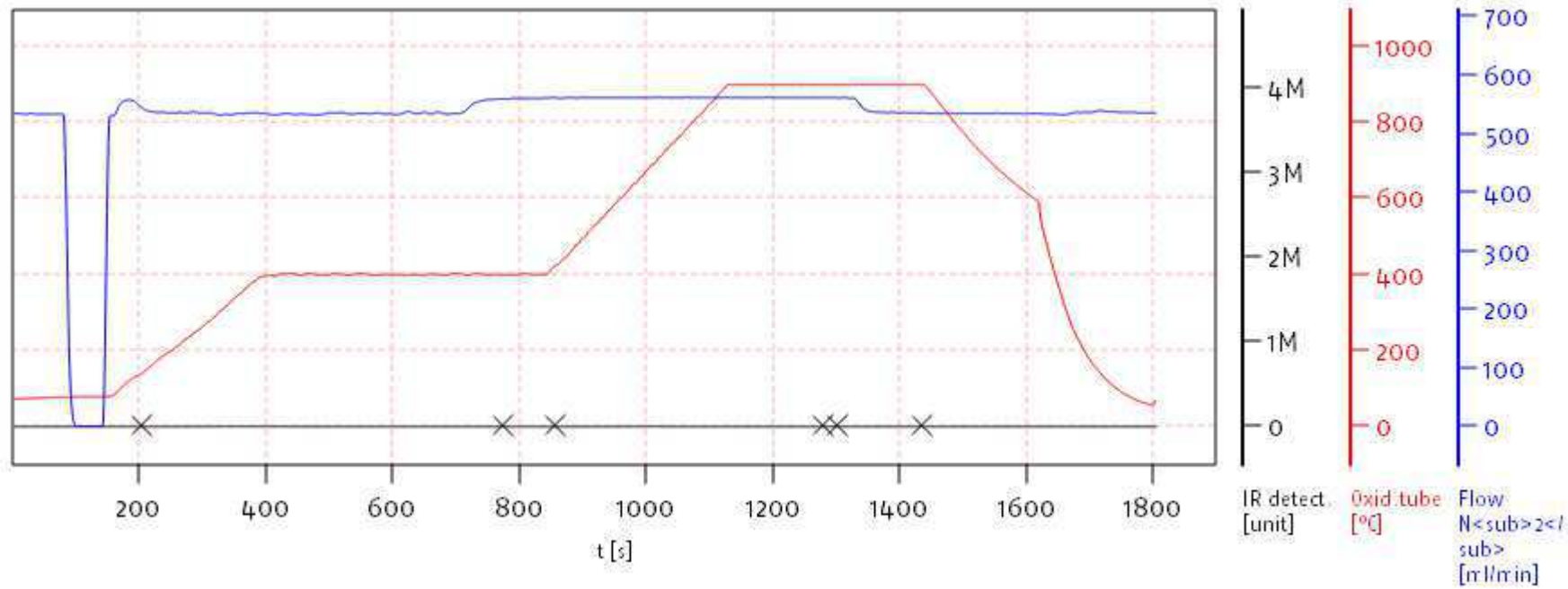
Date: Fri Dec 16 09:43:23 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Document: 121222 DOE from: 12/16/2022 9:42 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
137	48	SKL0152-CCBB	514.50		CARBON	12/15/2022 6:06 AM	bl,C2u	0.000	7 616	0.000	0.000	339	3 227	0.000	0.000	0.9484	1.0000



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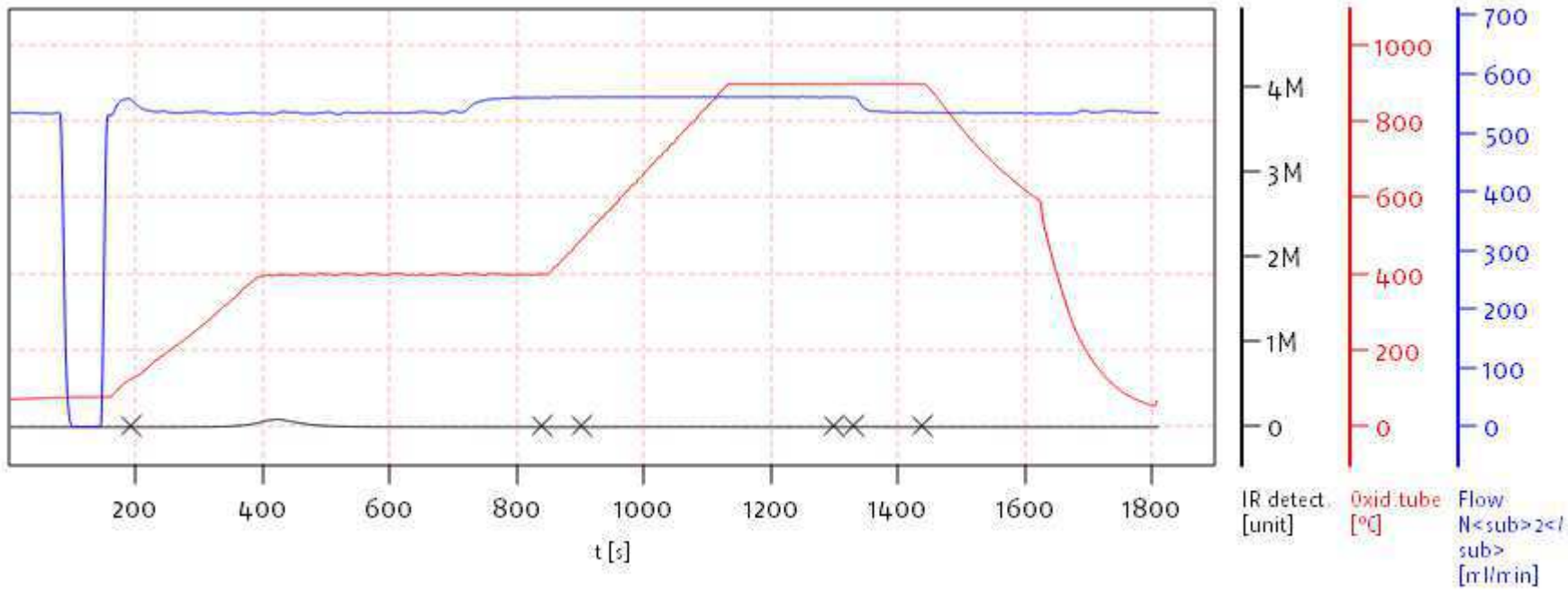
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
138	49	22L0137-01	216.80		CARBON	12/15/2022 6:36 AM	bl	0.186	301 002	0.186	0.000	3 453	13 280	0.186	0.000	0.9484	1.0000



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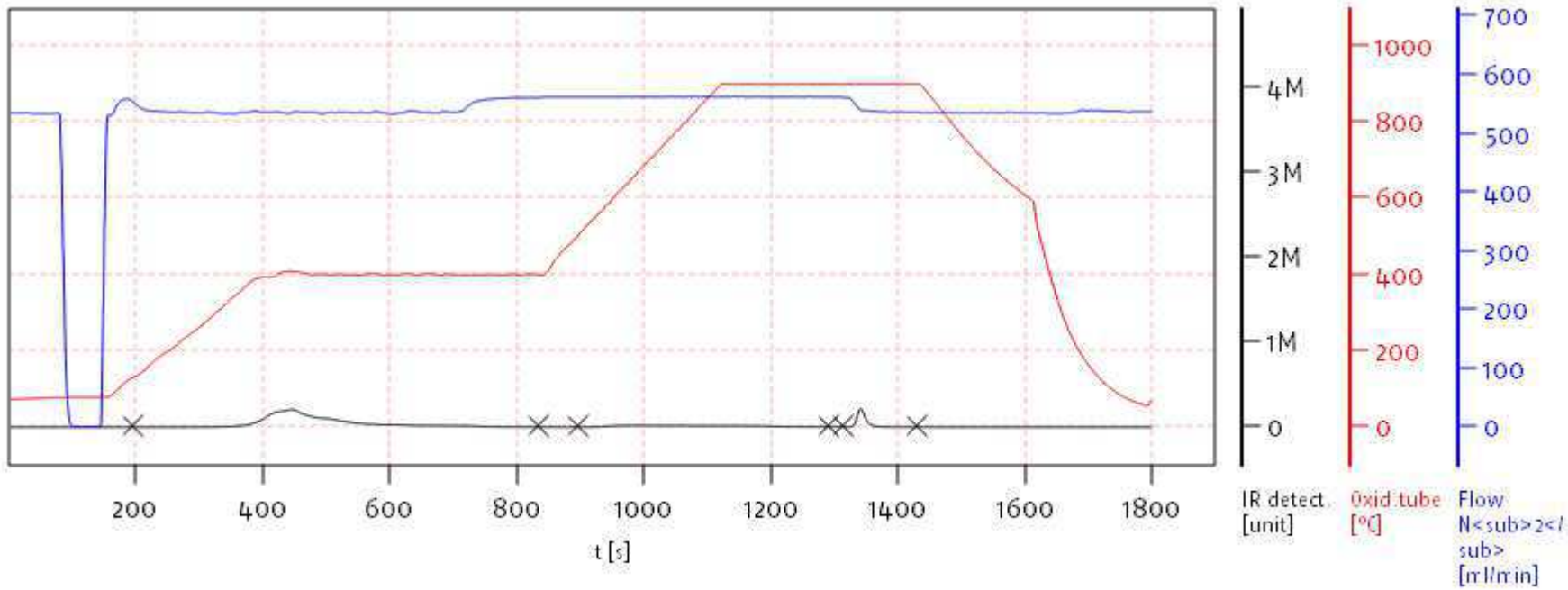
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
139	50	22L0137-02	545.20		CARBON	12/15/2022 7:07 AM	bl	0.279	951 956	0.318	0.029	129 748	166 758	0.249	0.040	0.9484	1.0000



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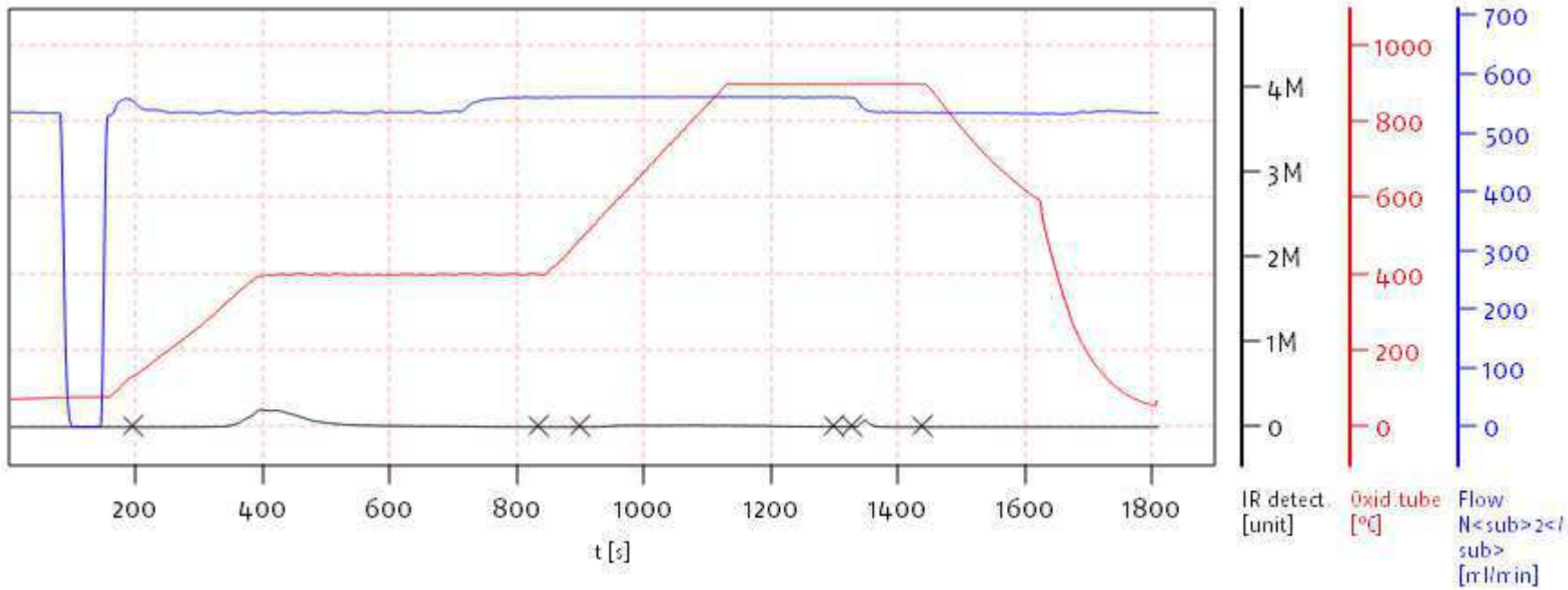
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
140	51	22L0137-03	212.20		CARBON	12/15/2022 7:37 AM	bl	0.610	883 249	0.732	0.017	49 808	194 614	0.593	0.123	0.9484	1.0000



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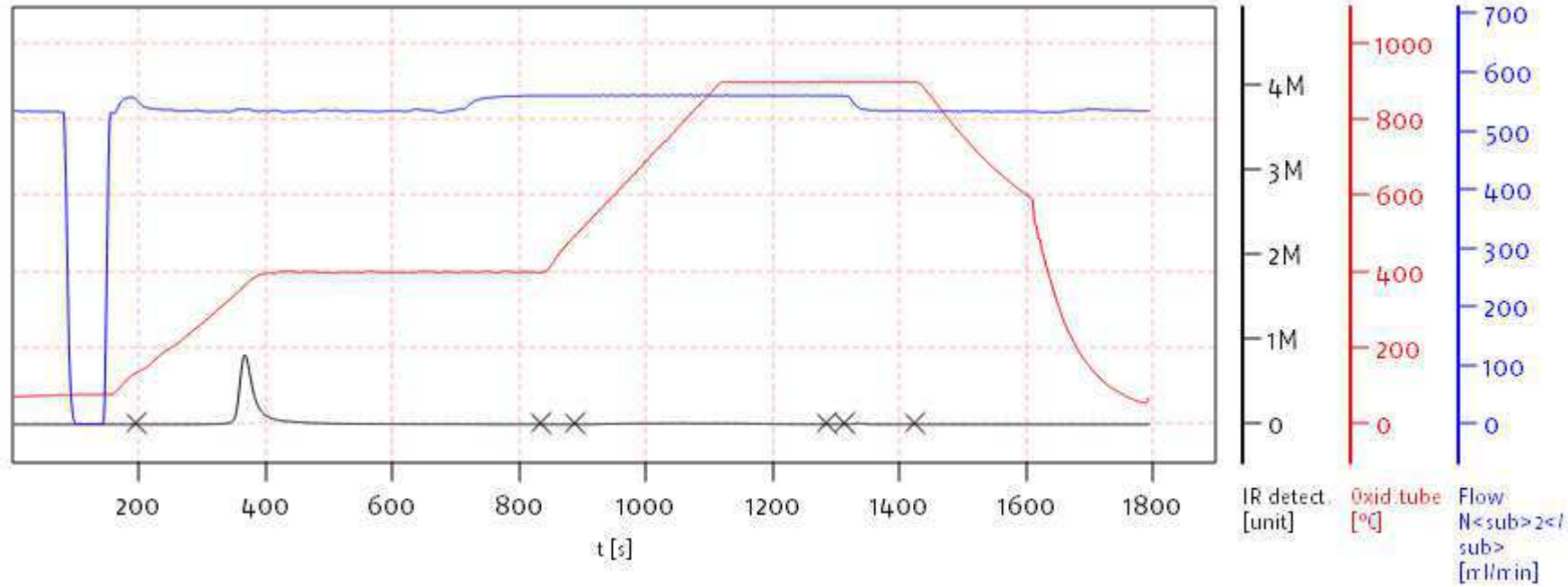
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
141	52	22L0137-04	101.60		CARBON	12/15/2022 8:07 AM	bl	1.323	941 817	1.437	0.000	8 477	101 782	1.323	0.115	0.9484	1.0000



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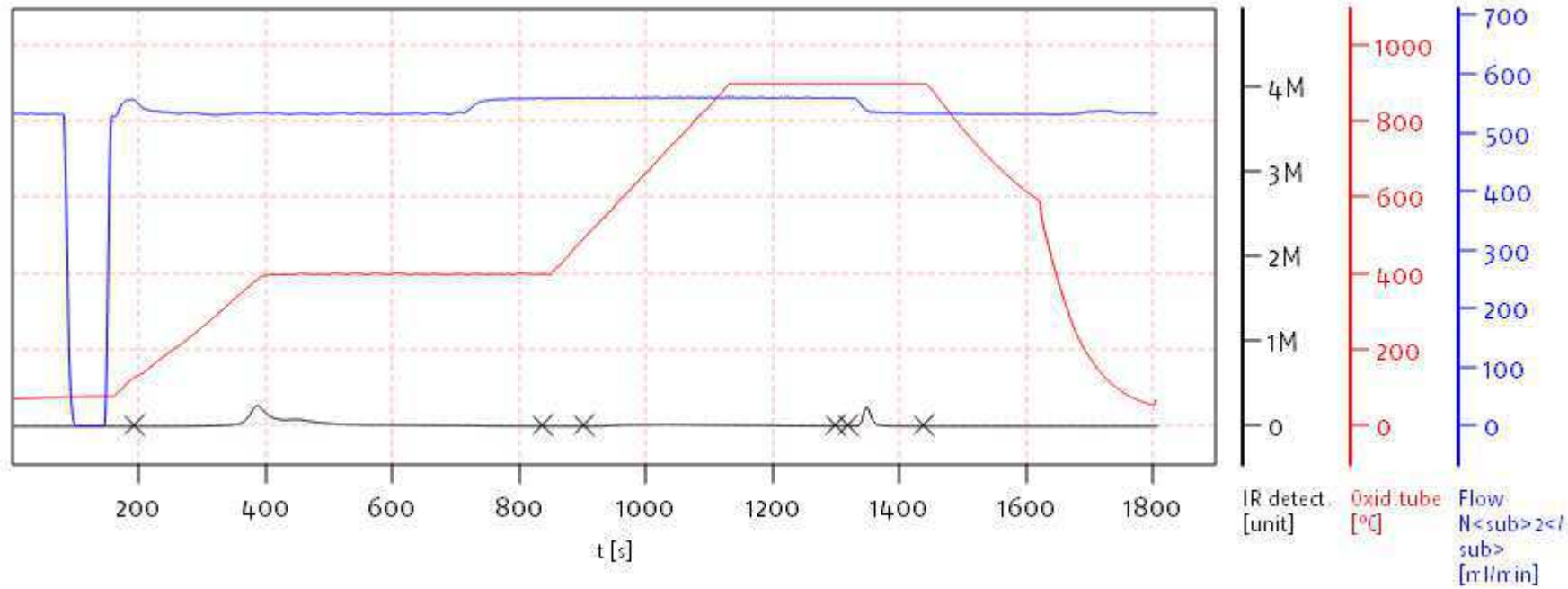
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
142	53	22L0137-05	108.50		CARBON	12/15/2022 8:38 AM	bl	1.079	708 222	1.323	0.157	136 370	197 221	0.922	0.244	0.9484	1.0000



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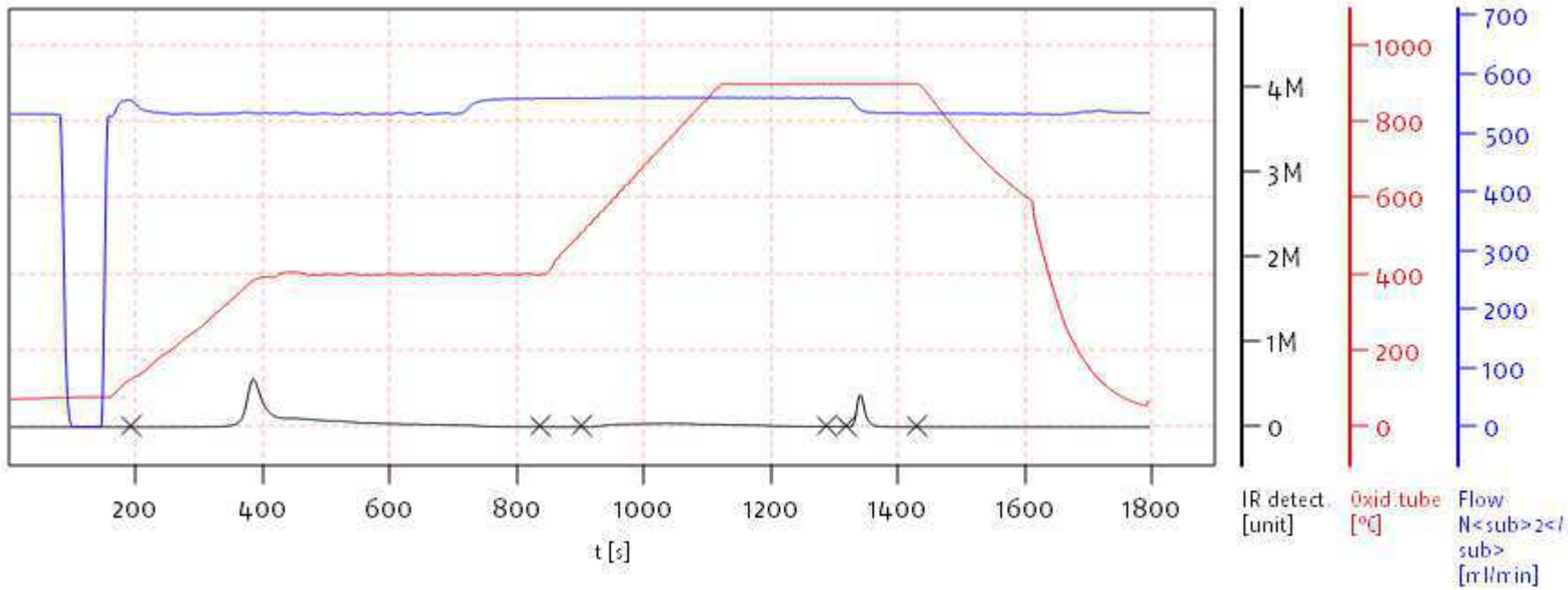
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
143	54	22L0137-06	190.00		CARBON	12/15/2022 9:08 AM	bl	1.167	1 328 431	1.426	0.161	224 578	343 785	1.006	0.258	0.9484	1.0000



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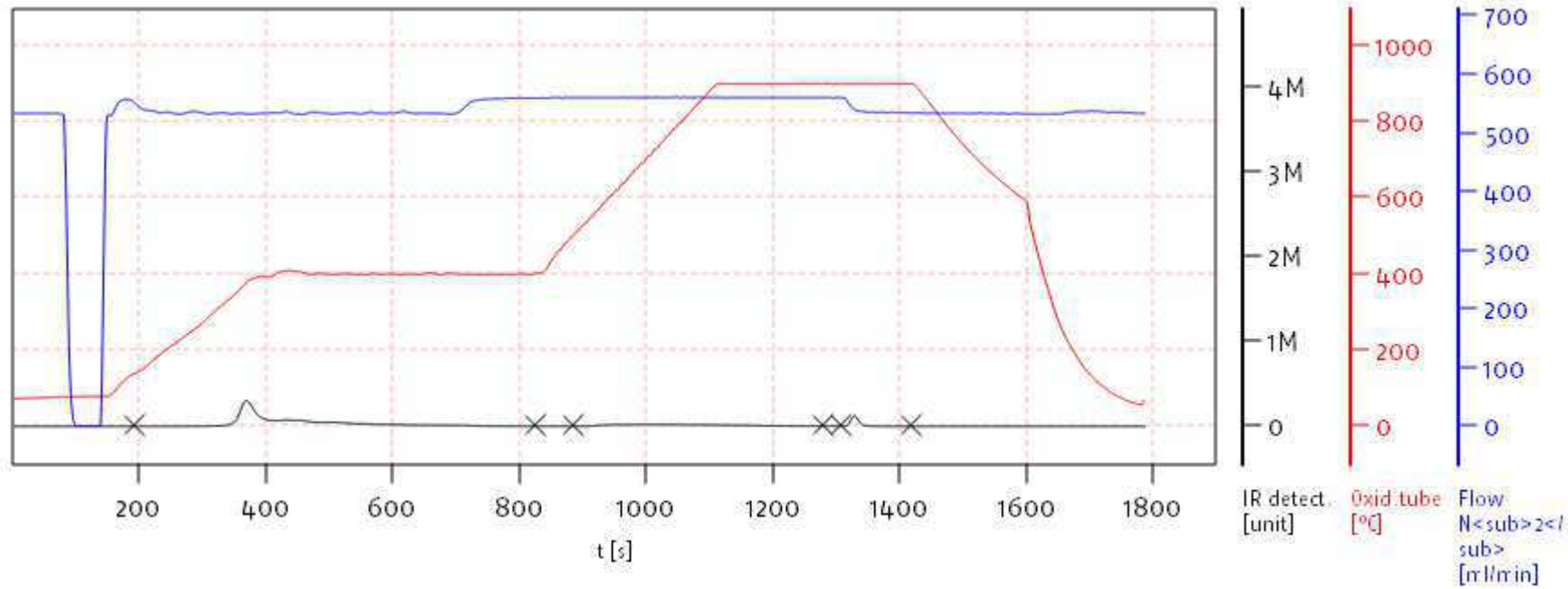
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
144	55	22L0137-07	108.70		CARBON	12/15/2022 9:39 AM	bl	1.103	796 560	1.329	0.063	70 780	185 433	1.040	0.226	0.9484	1.0000



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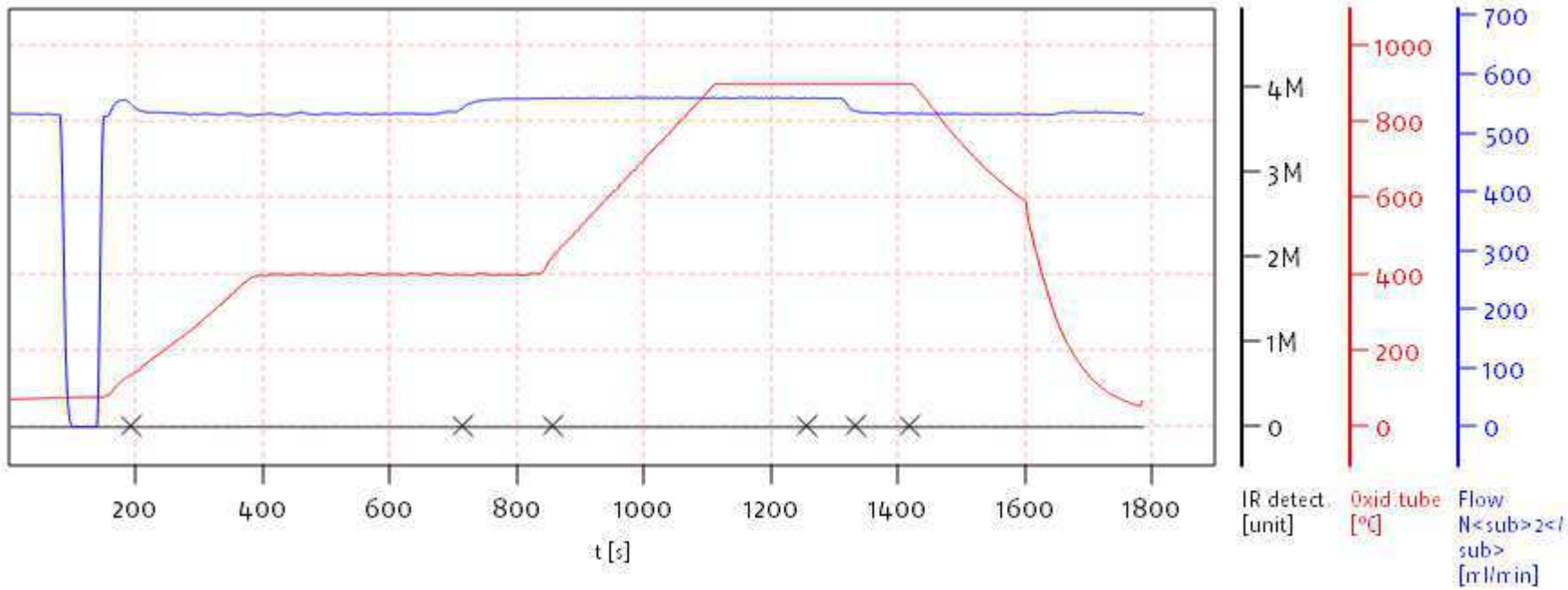
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
145	56	BLANK	1.00		CARBON	12/15/2022 10:09 AM	bl	0.000	5 132	0.000	0.000	98	585	0.000	0.000	0.9484	1.0000



Name:

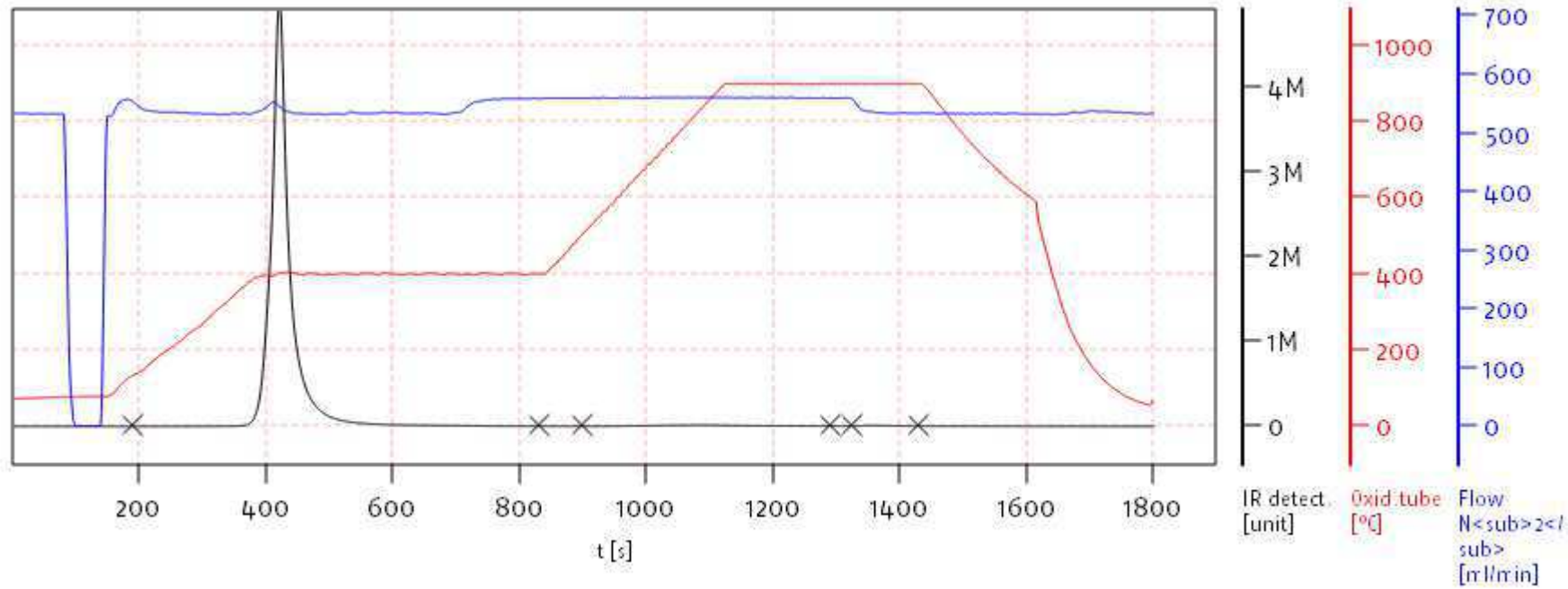
Access: soliTOC superuser

Date: Fri Dec 16 09:43:23 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
146	57	Dfactor	20.90		CARBON	12/15/2022 10:39 AM	bl	44.446	6 328 553	45.053	0.000	24 598	108 555	44.446	0.608	0.9522	1.0000



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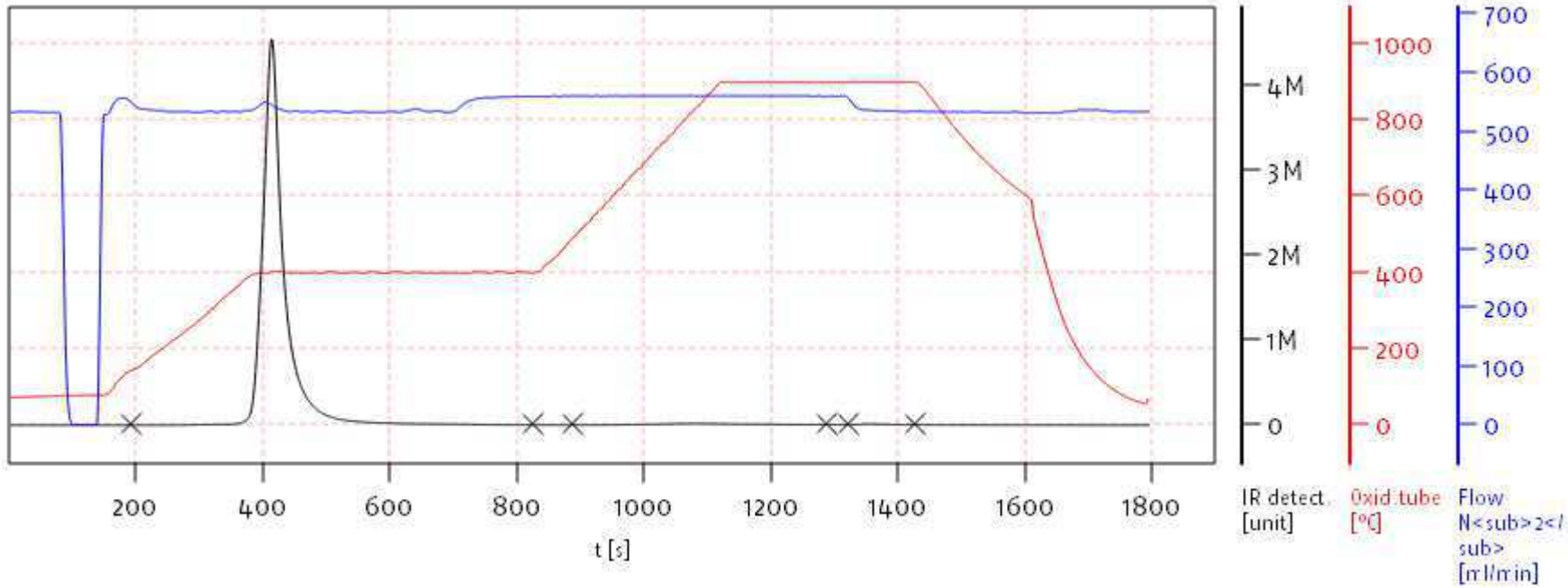
Date: Fri Dec 16 09:43:23 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
147	58	Dfactor	22.10		CARBON	12/15/2022 11:10 AM	bl	44.480	6 548 725	45.258	0.035	31 499	137 533	44.446	0.778	0.9729	1.0000



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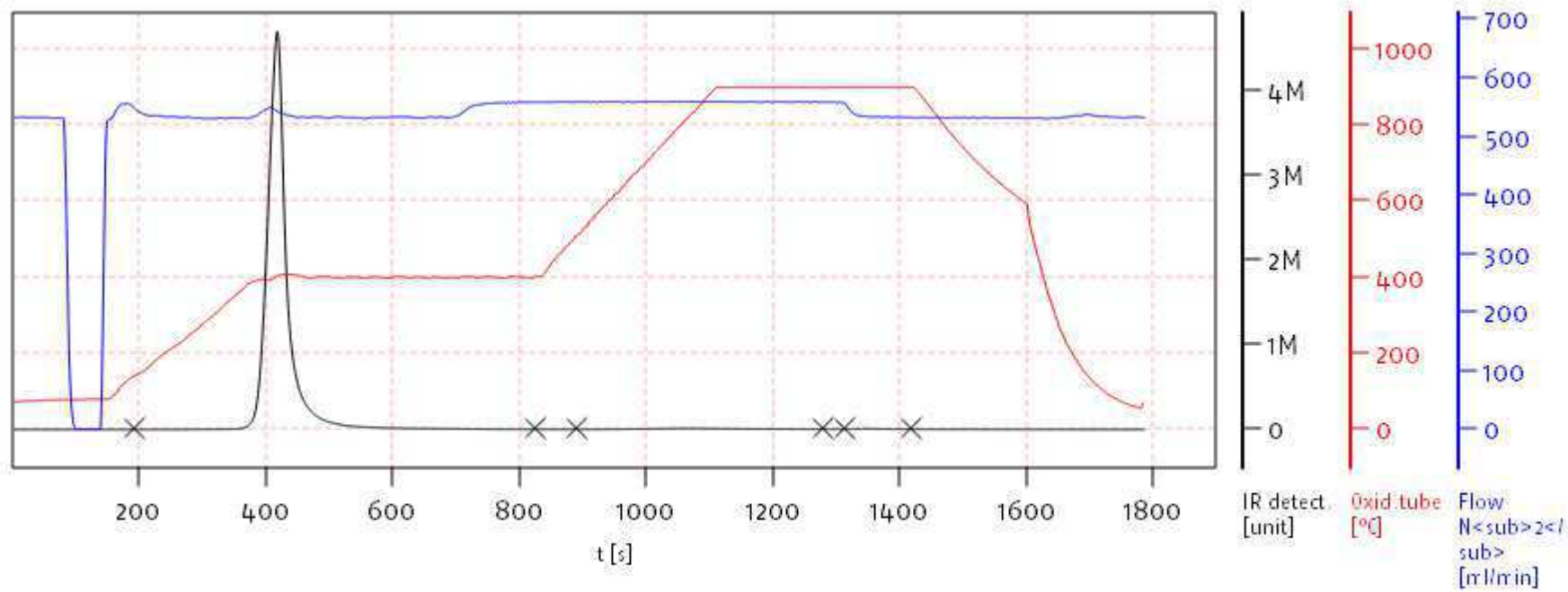
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
148	59	SKL0152-CCVC	20.30		CARBON	12/15/2022 11:40 AM	bl	45.055	6 164 932	45.590	0.000	23 564	96 685	45.055	0.535	0.9625	1.0000



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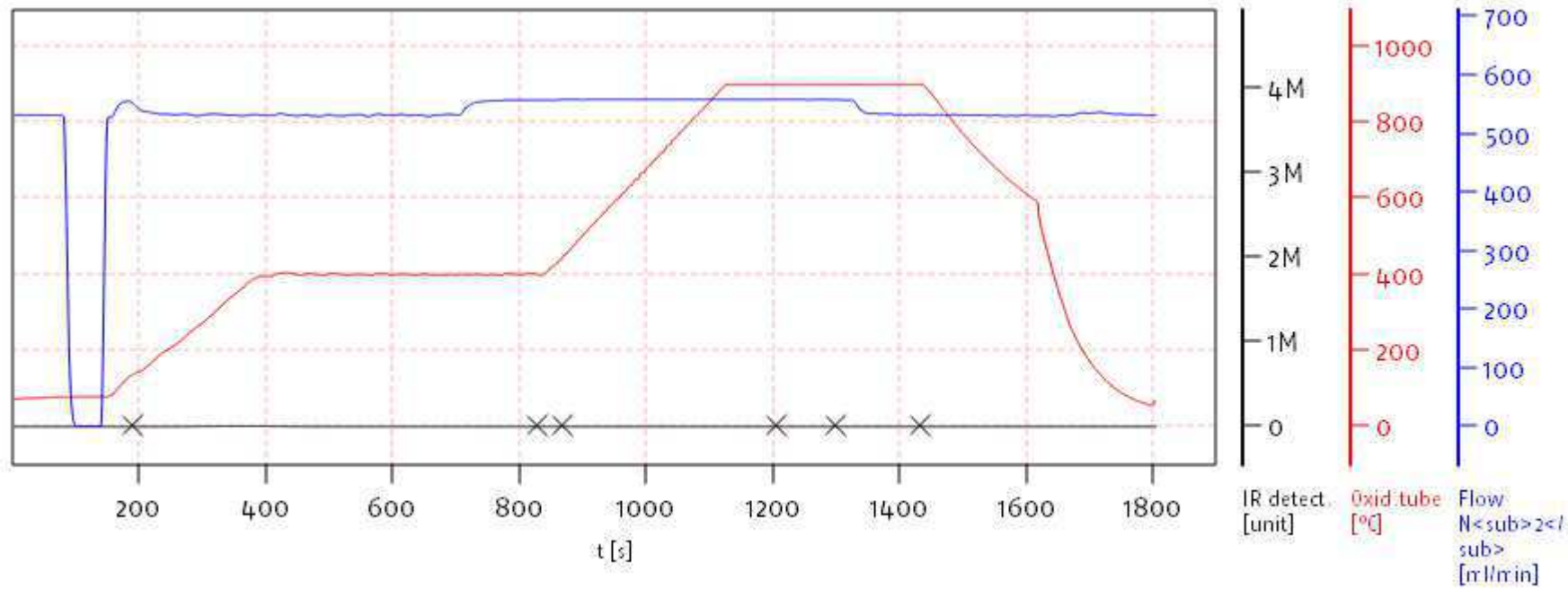
Date: Fri Dec 16 09:43:23 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
149	60	SKL0152-CCBC	509.70		CARBON	12/15/2022 12:10 PM	bl,C2u	0.002	32 017	0.002	0.000	798	2 656	0.002	0.000	0.9625	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
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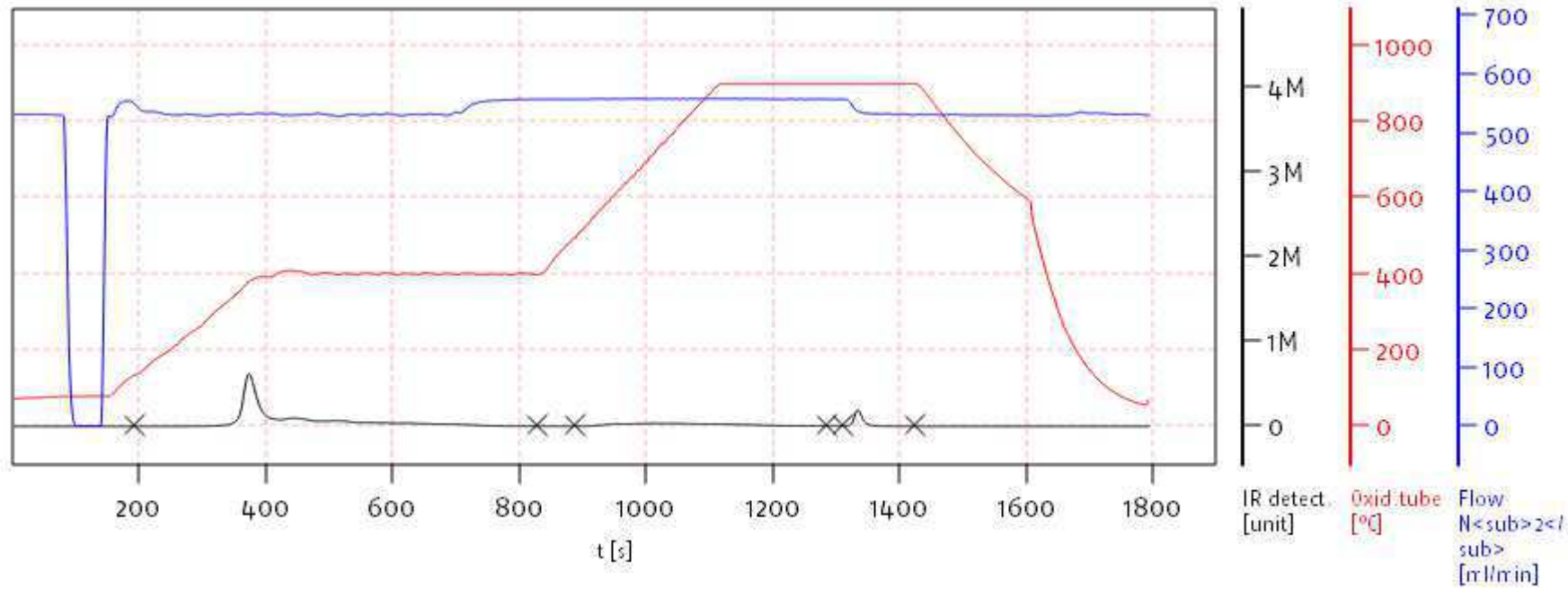
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
150	61	22L0137-08	160.60		CARBON	12/15/2022 12:41 PM	bl	1.241	1 270 917	1.502	0.087	116 742	296 367	1.155	0.260	0.9625	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
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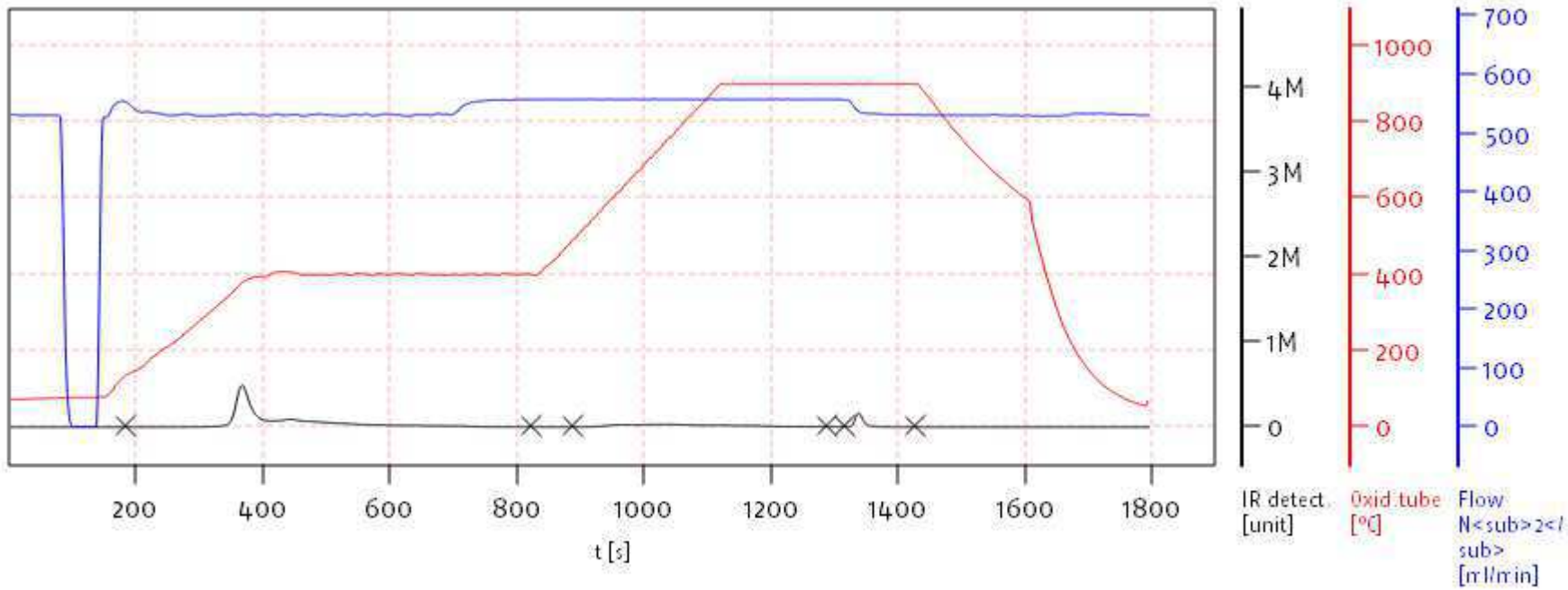
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
151	62	22L0137-09	146.80		CARBON	12/15/2022 1:11 PM	bl	1.076	1 014 738	1.313	0.073	96 111	251 267	1.003	0.237	0.9625	1.0000



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Serial No: 0300.181017
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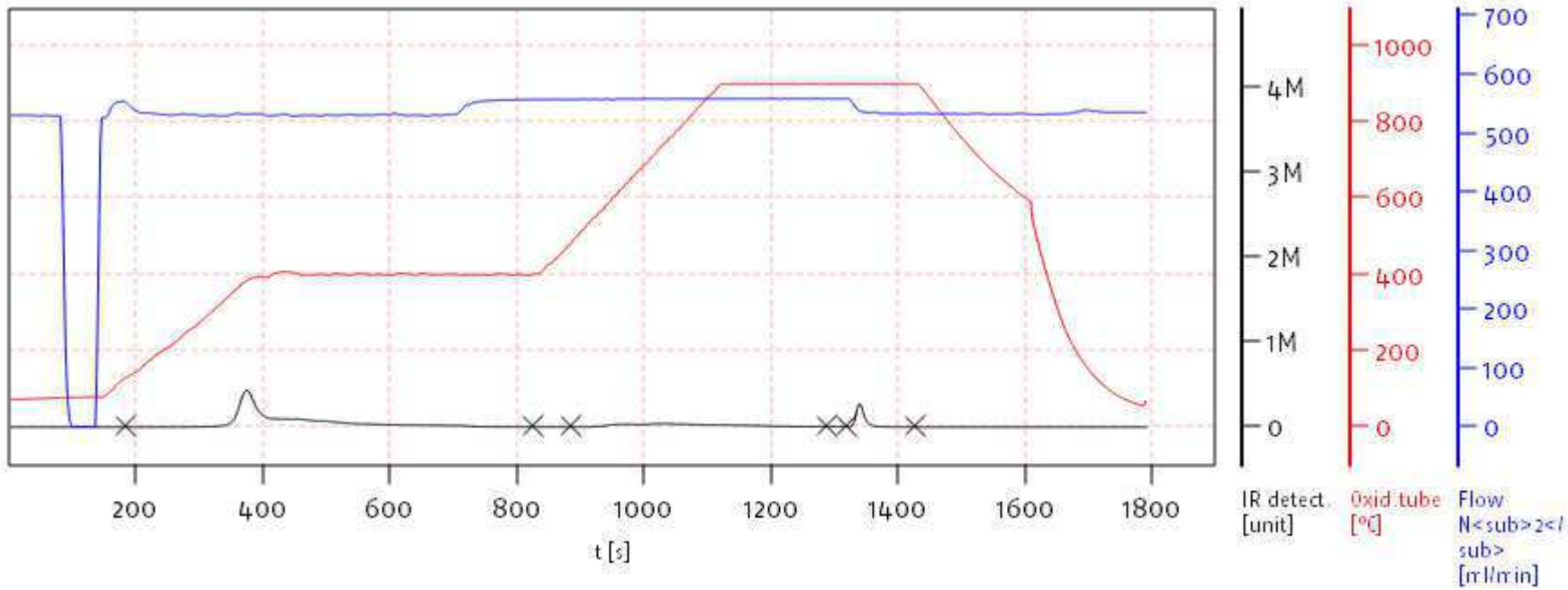
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
152	63	22L0137-10	184.20		CARBON	12/15/2022 1:41 PM	bl	1.015	1 140 184	1.249	0.114	161 817	305 780	0.901	0.235	0.9625	1.0000



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Serial No: 0300.181017
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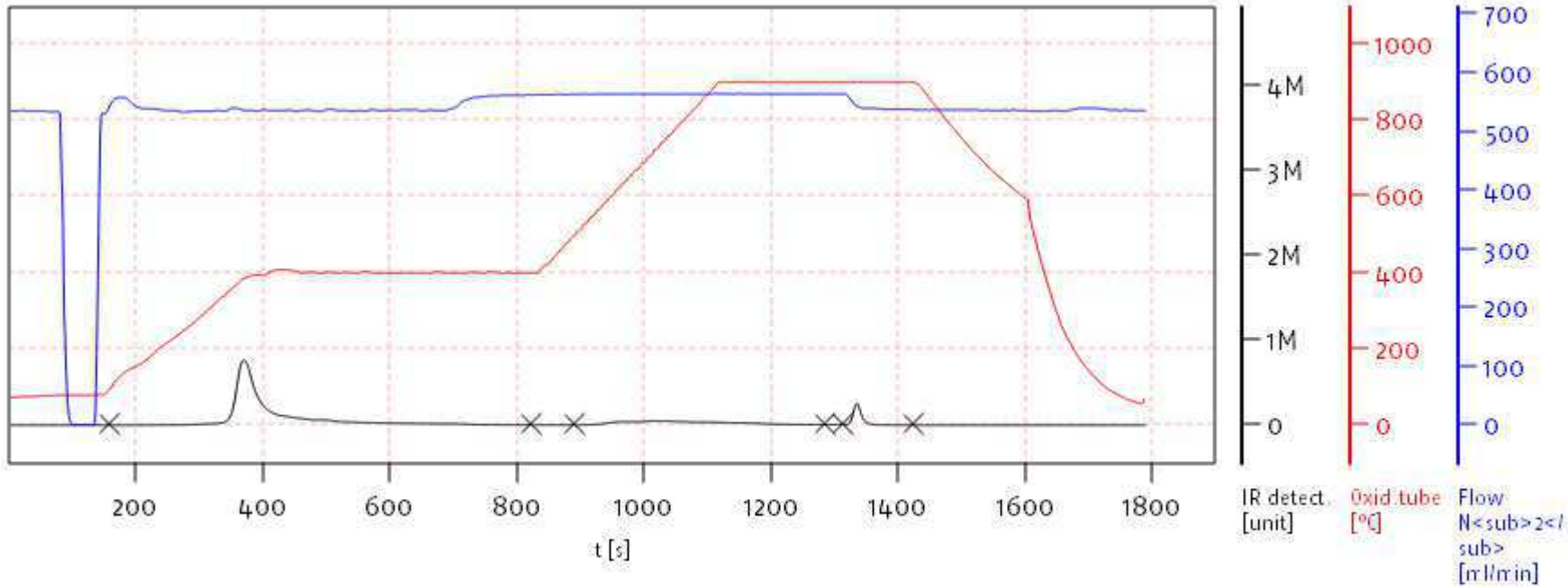
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
153	64	22L0137-11	201.30		CARBON	12/15/2022 2:11 PM	bl	1.247	1 585 291	1.517	0.093	148 084	377 461	1.154	0.270	0.9625	1.0000



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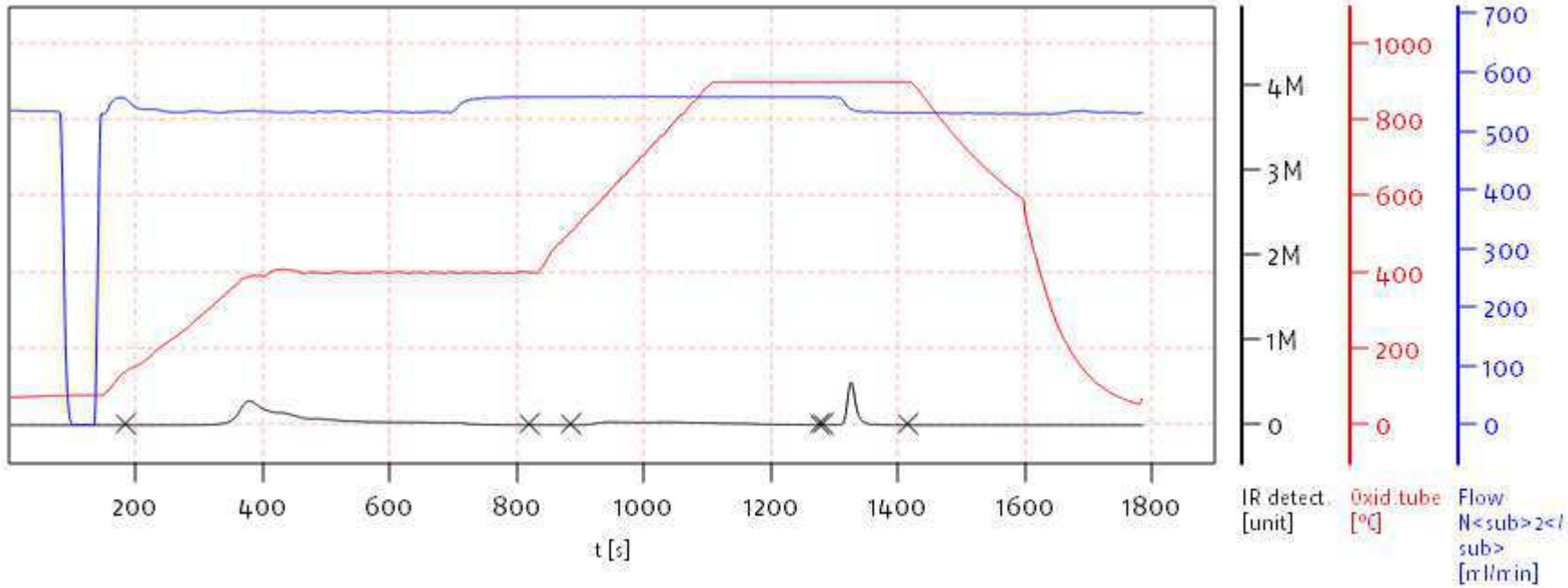
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
154	65	22L0137-12	208.70		CARBON	12/15/2022 2:42 PM	bl	1.024	1 172 229	1.225	0.206	304 115	297 565	0.818	0.201	0.9625	1.0000



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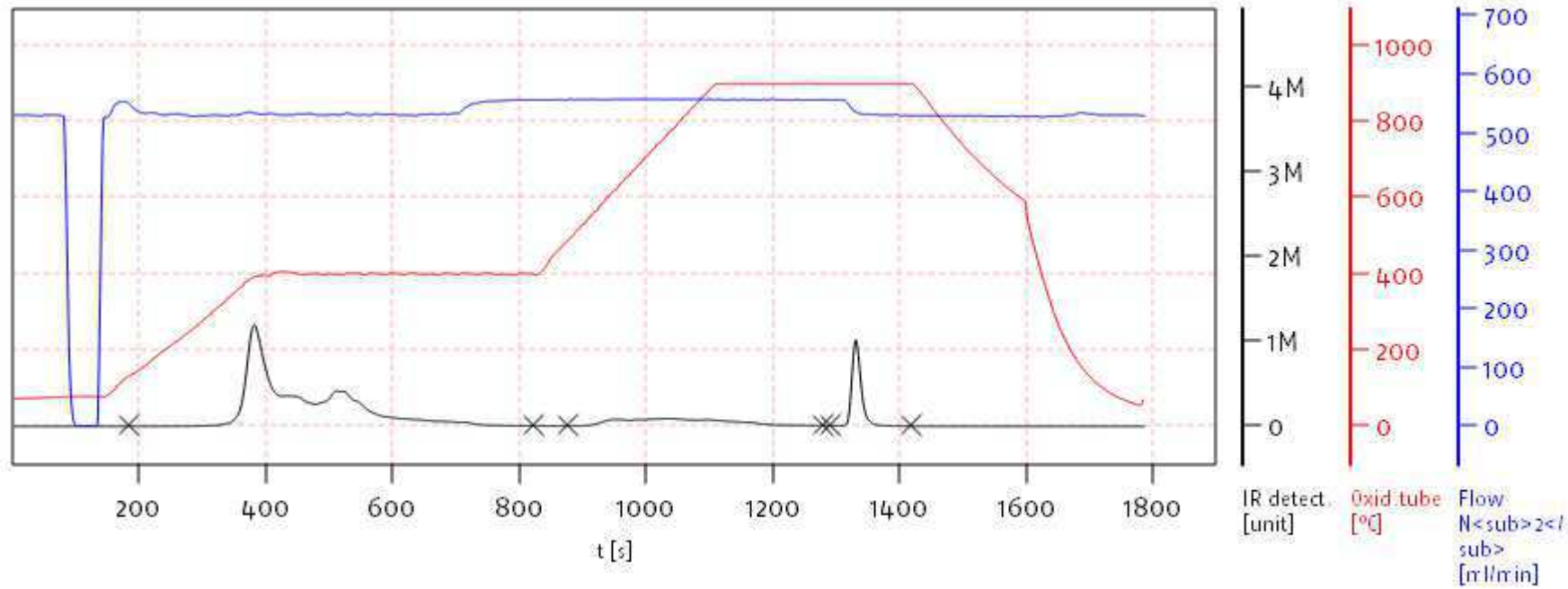
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
155	66	22L0137-13	510.20		CARBON	12/15/2022 3:12 PM	bl	1.351	3 998 223	1.572	0.191	656 166	756 164	1.160	0.221	0.9625	1.0000



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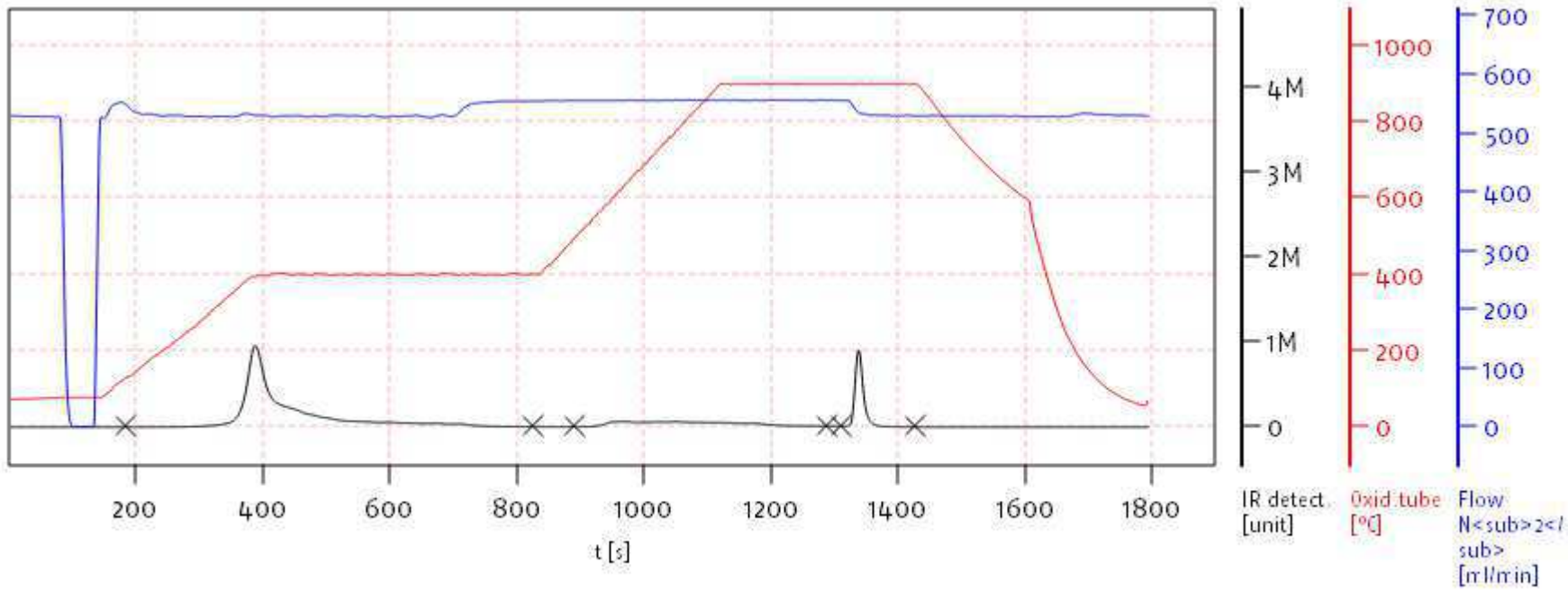
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
156	67	22L0137-14	300.00		CARBON	12/15/2022 3:42 PM	bl	1.424	2 372 574	1.715	0.258	527 442	591 877	1.165	0.292	0.9625	1.0000



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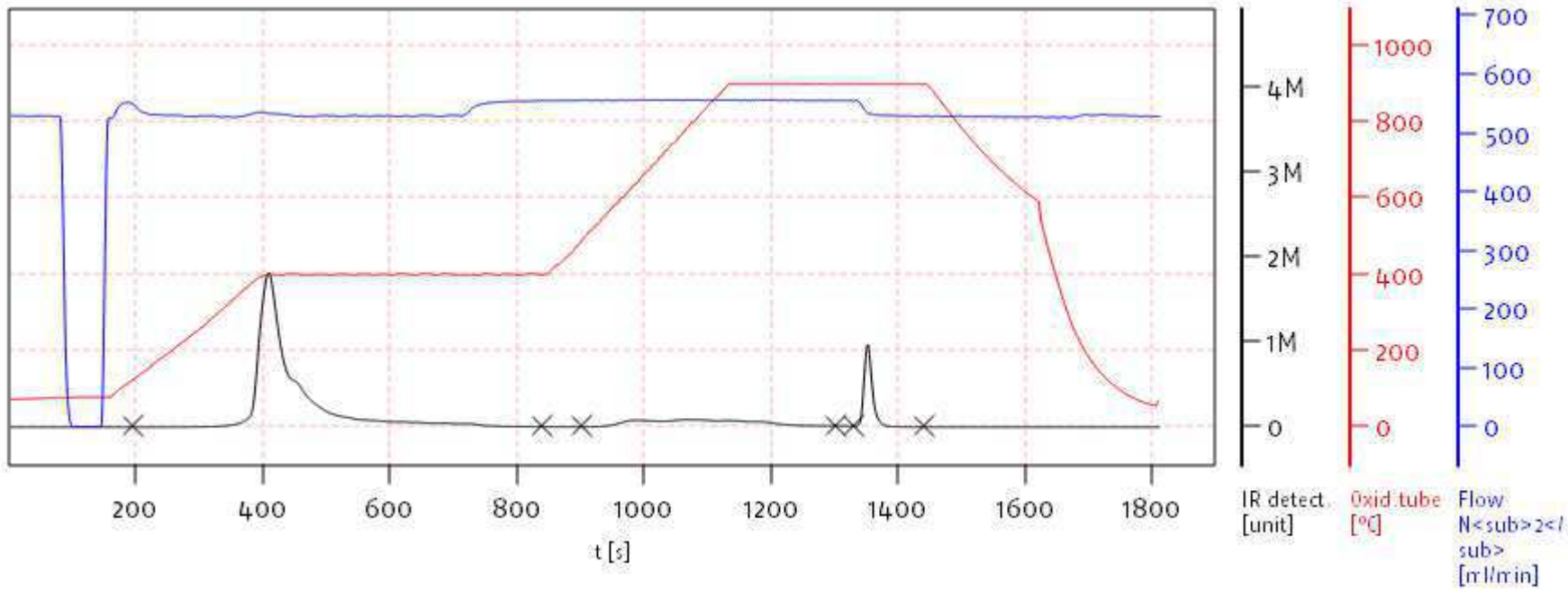
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
157	68	22L0137-15	518.50		CARBON	12/15/2022 4:13 PM	bl	1.322	4 076 804	1.547	0.158	557 140	777 538	1.164	0.224	0.9625	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
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Soli TOC Cube, Carbon
Balance: BAL3
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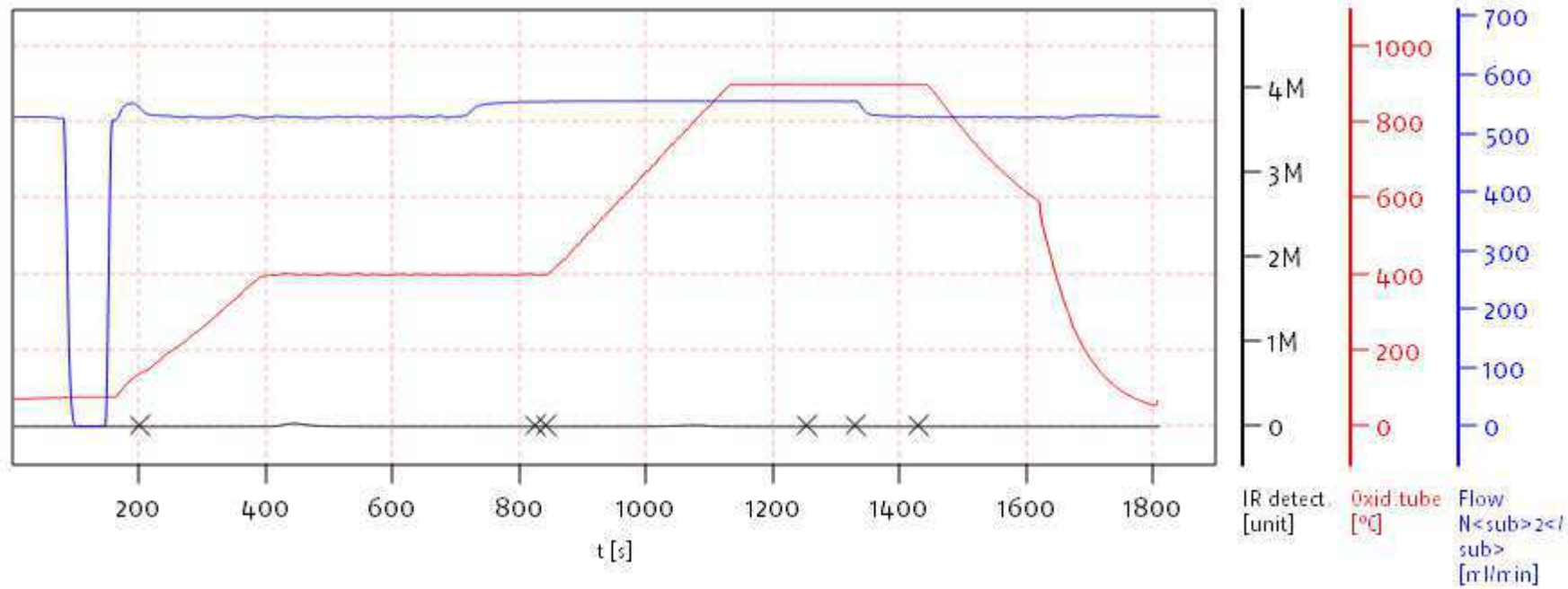
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
158	69	BKL0300-MRL1	532.70		CARBON	12/15/2022 4:43 PM	bl,C2u	0.012	70 689	0.015	0.000	111	35 829	0.012	0.003	0.9625	1.0000



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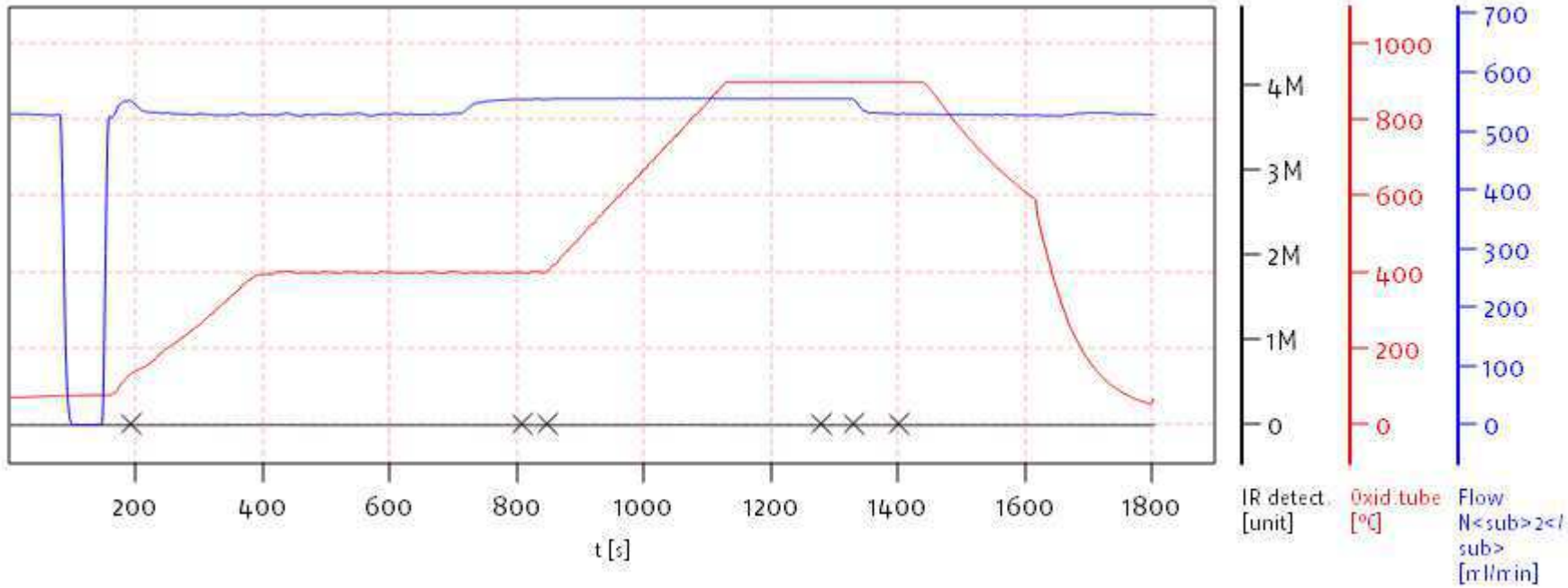
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
159	70	BKL0300-BLK1	519.70		CARBON	12/15/2022 5:14 PM	bl,C2u	0.000	9 307	0.000	0.000	190	9 380	0.000	0.000	0.9625	1.0000



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Soli TOC Cube, Carbon
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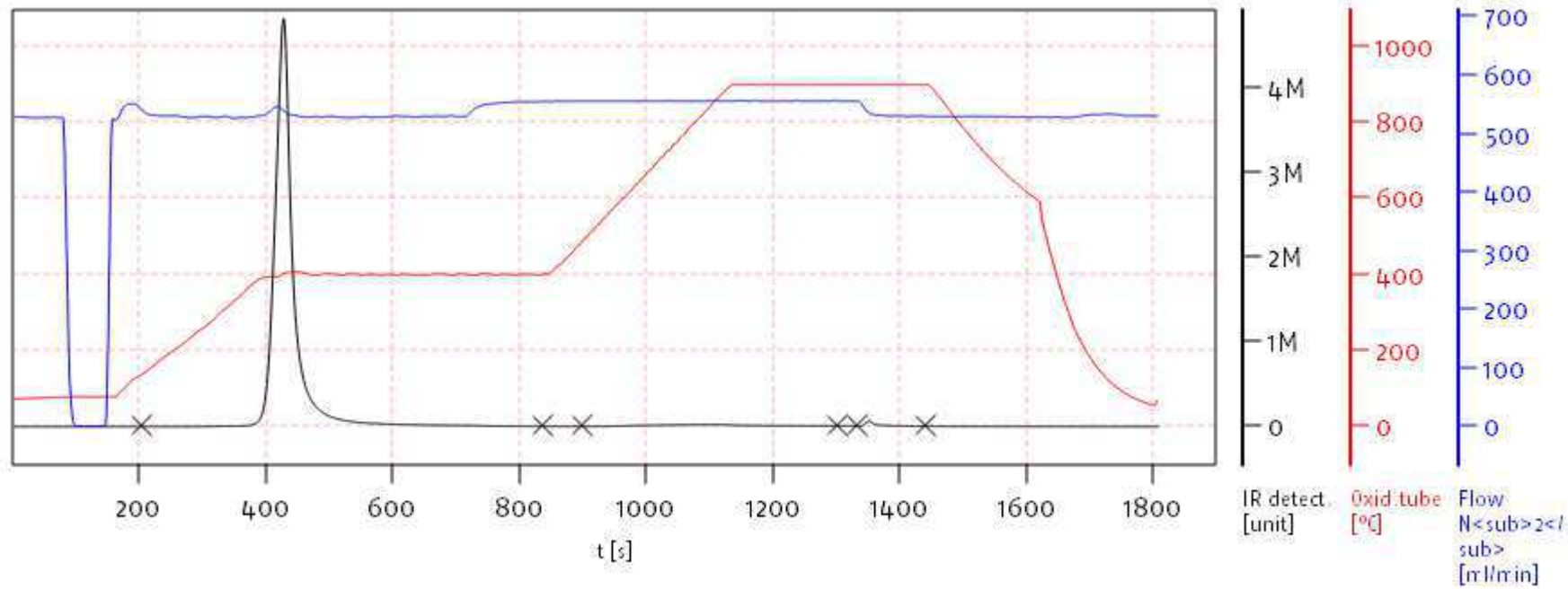
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
160	71	SKL0152-CCVD	20.40		CARBON	12/15/2022 5:44 PM	bl	44.015	6 013 724	45.289	0.285	64 140	194 320	43.730	1.273	0.9625	1.0000



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Balance: BAL3
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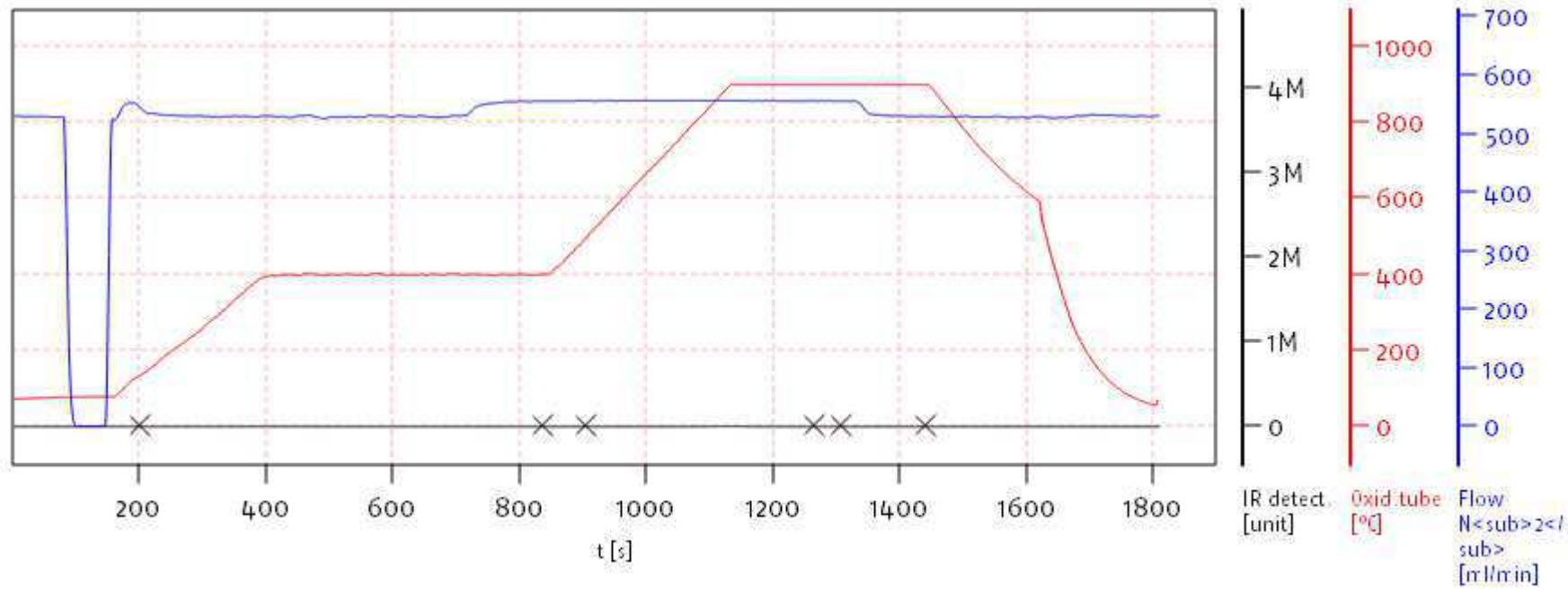
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
161	72	SKL0152-CCBD	506.20		CARBON	12/15/2022 6:15 PM	bl,C2u	0.000	6 043	0.000	0.000	461	8 549	0.000	0.000	0.9625	1.0000



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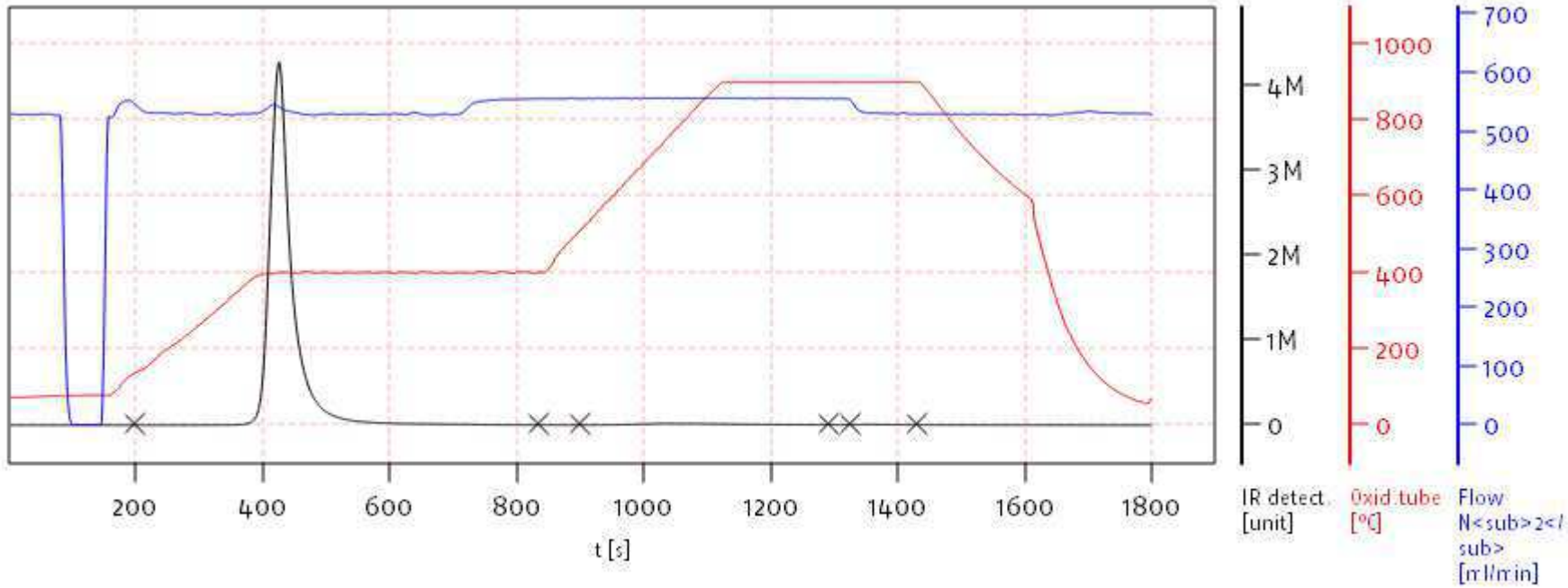
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
162	73	BKL0300-BS1	21.60		CARBON	12/15/2022 6:45 PM	bl	44.287	6 446 605	45.105	0.000	22 333	140 781	44.287	0.819	0.9625	1.0000



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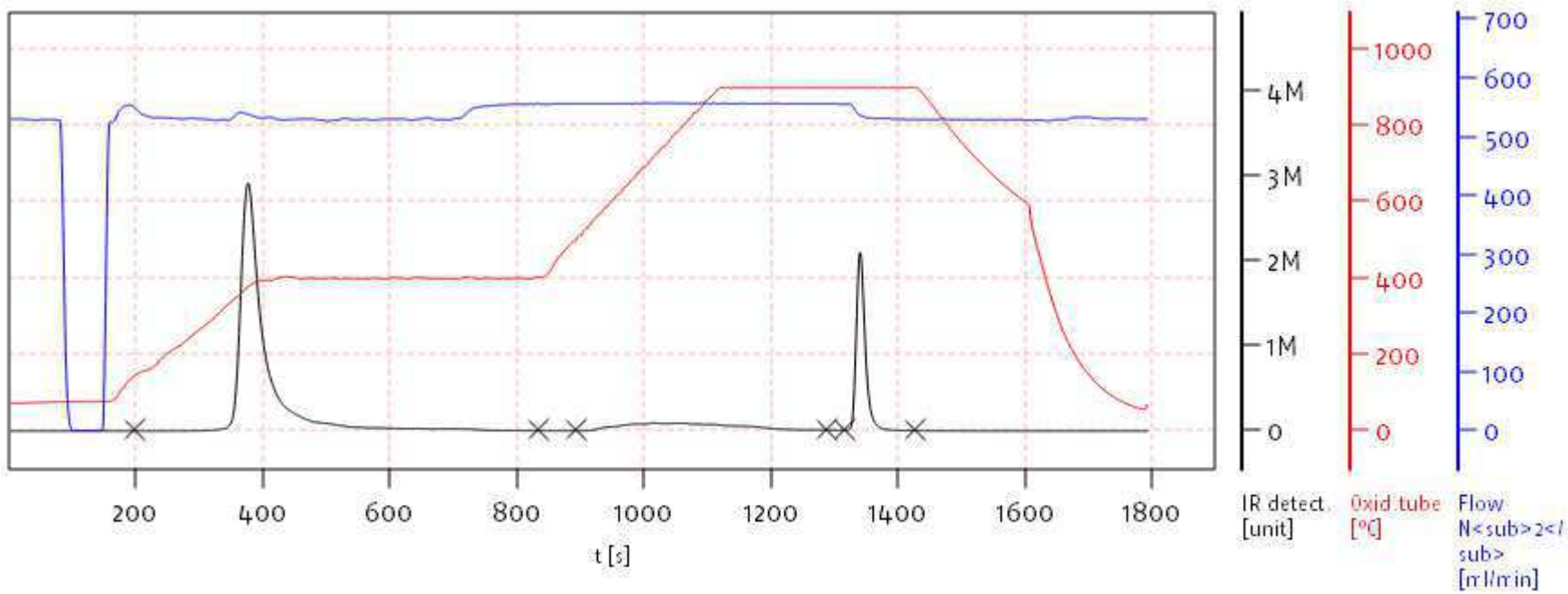
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
163	74	BKL0300-SRM1	299.90		CARBON	12/15/2022 7:16 PM	bl	2.969	4 676 004	3.353	0.659	1 303 989	770 117	2.310	0.384	0.9625	1.0000



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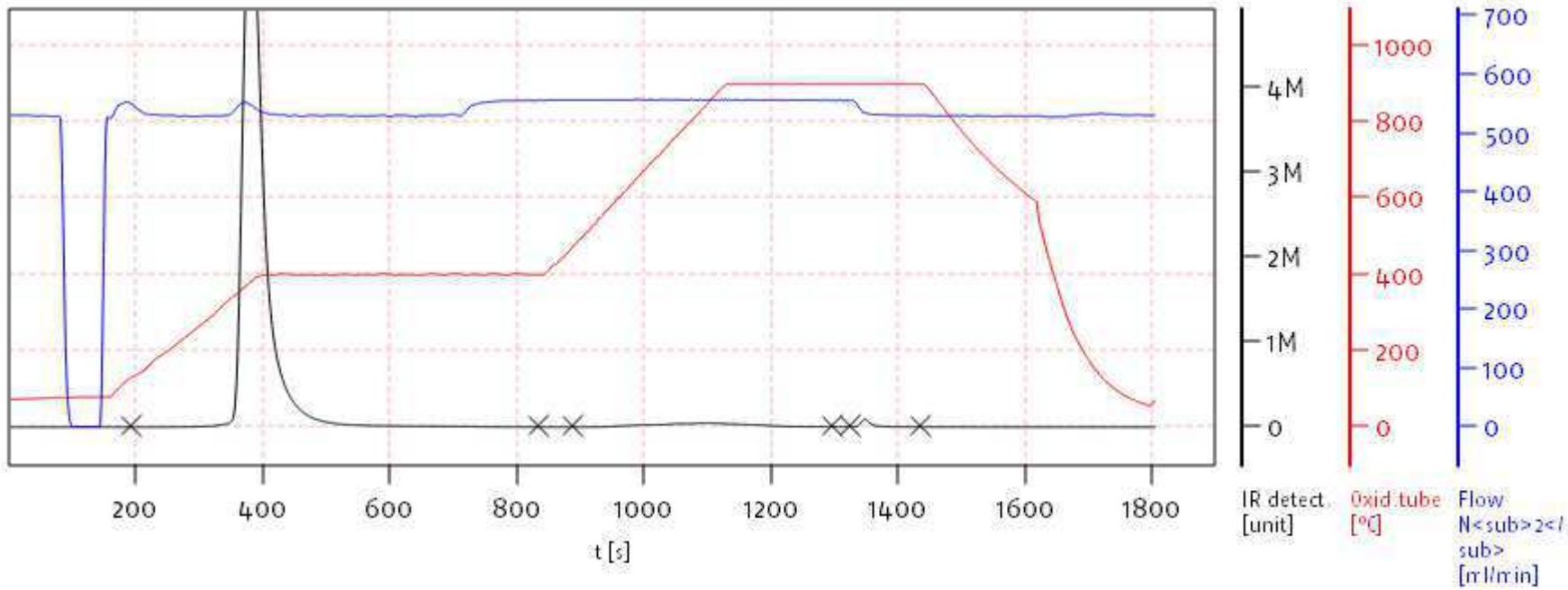
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
164	75	22L0137-16	500.80		CARBON	12/15/2022 7:46 PM	bl	2.701	9 060 963	2.791	0.013	68 692	318 901	2.688	0.090	0.9625	1.0000



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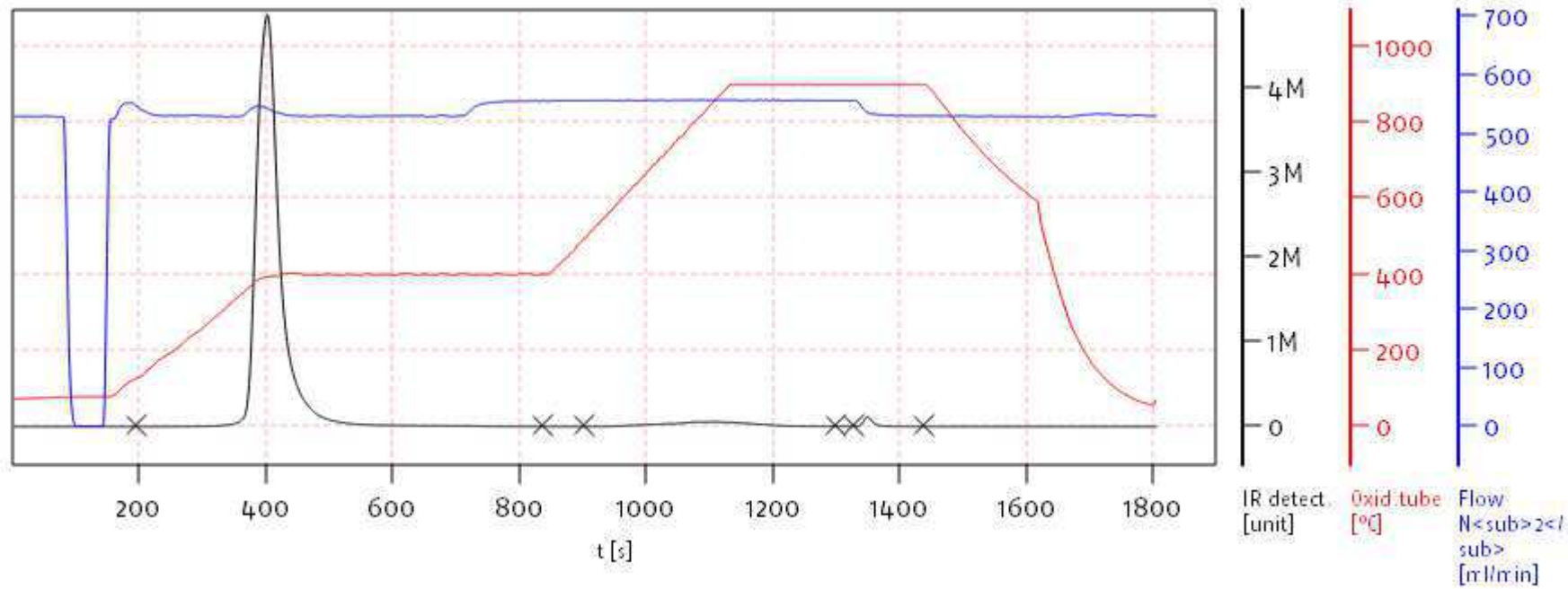
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
165	76	BKL0300-DUP1	509.40		CARBON	12/15/2022 8:17 PM	bl	2.307	7 861 961	2.407	0.015	77 169	354 987	2.292	0.100	0.9625	1.0000



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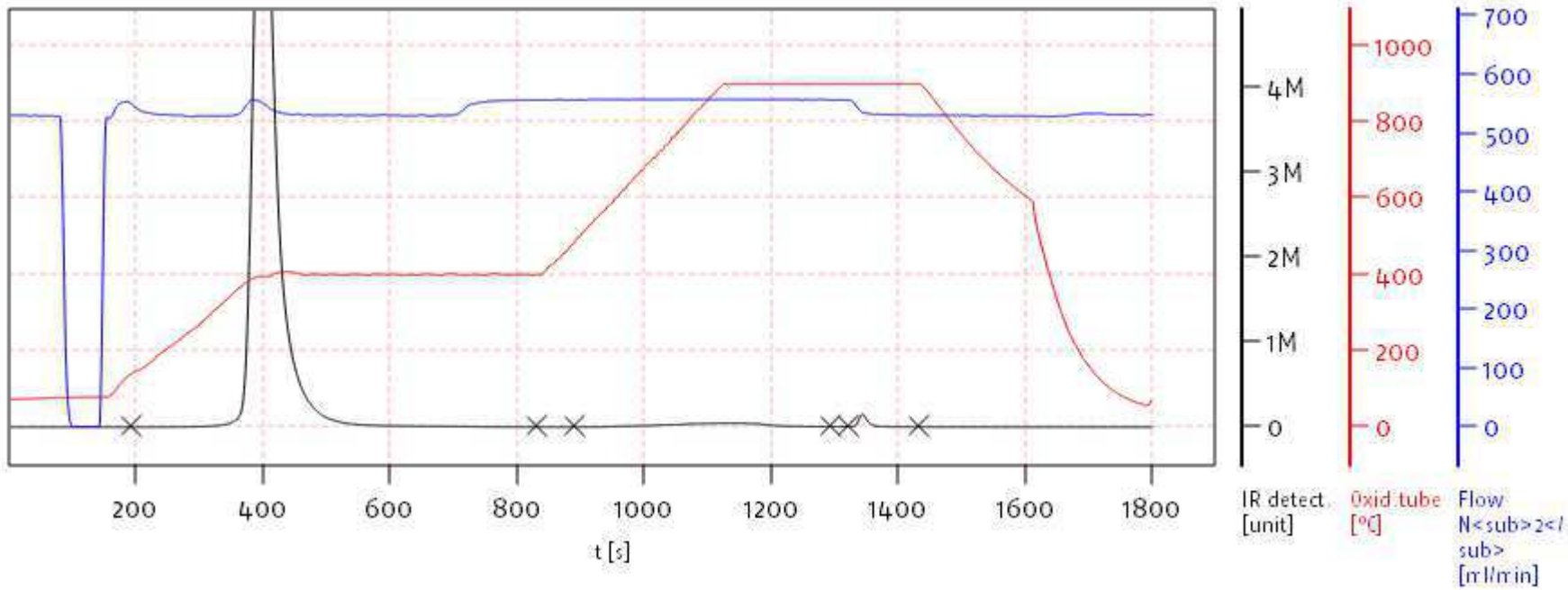
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
166	77	BKL0300-MS1	522.20	0.0109	CARBON	12/15/2022 8:47 PM	bl,C1o	3.378	11 787 301	3.466	0.022	101 321	324 774	3.356	0.088	0.9625	1.0000



Name:

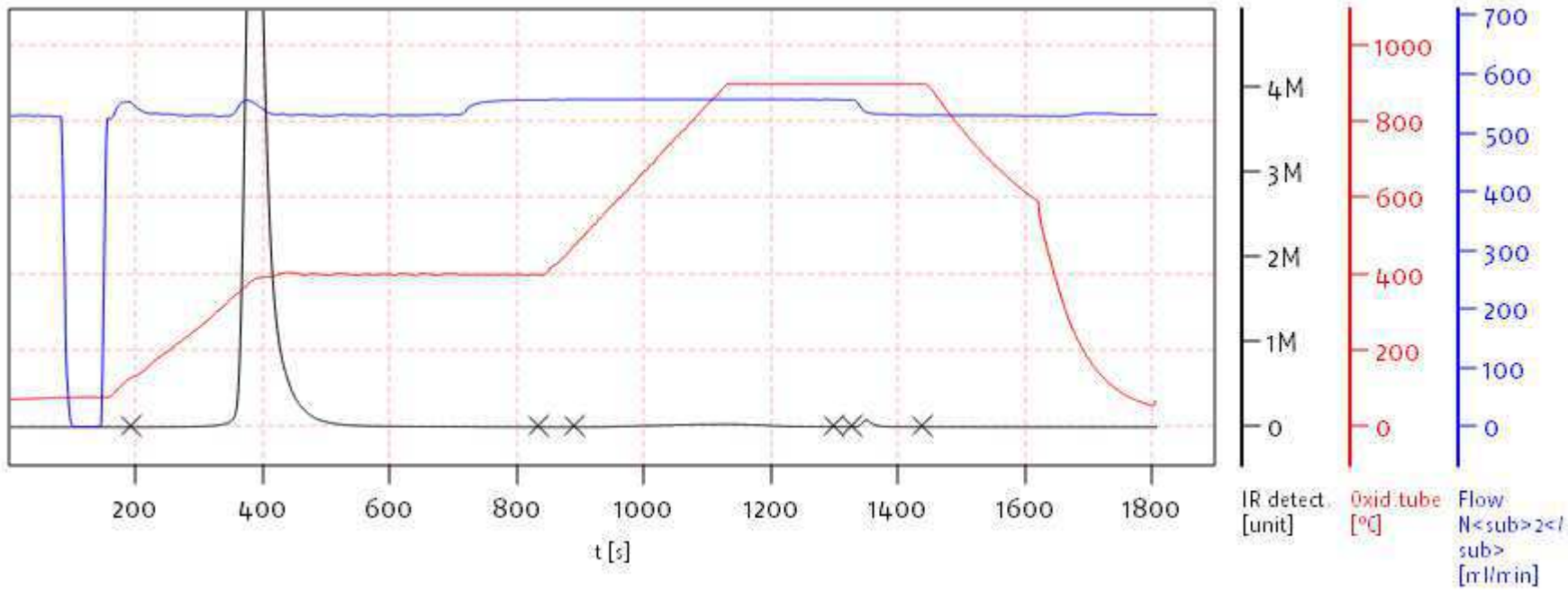
Access: soliTOC superuser

Date: Fri Dec 16 09:43:23 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
167	78	22L0137-17	515.20		CARBON	12/15/2022 9:17 PM	bl,C1o	3.090	10 671 798	3.156	0.011	64 465	247 075	3.079	0.066	0.9625	1.0000



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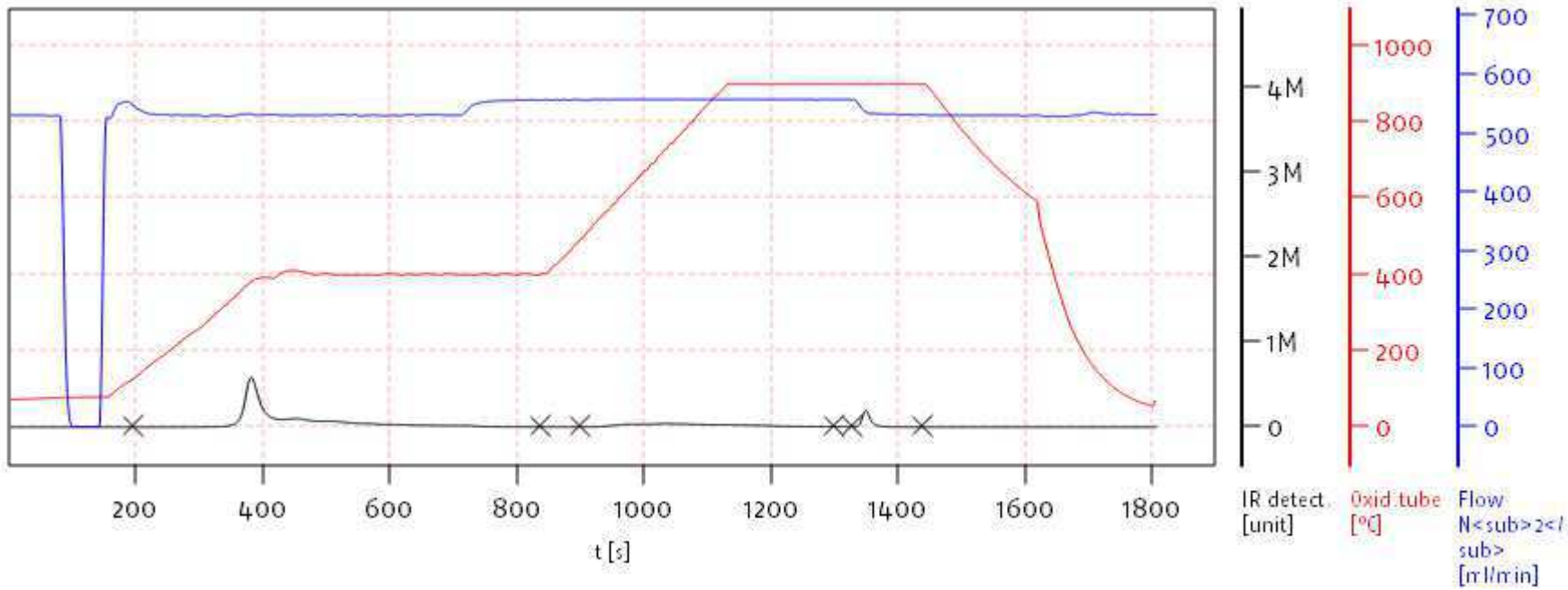
Date: Fri Dec 16 09:43:23 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
168	79	22L0137-18	208.70		CARBON	12/15/2022 9:48 PM	bl	0.914	1 214 250	1.126	0.066	115 623	312 391	0.848	0.212	0.9625	1.0000



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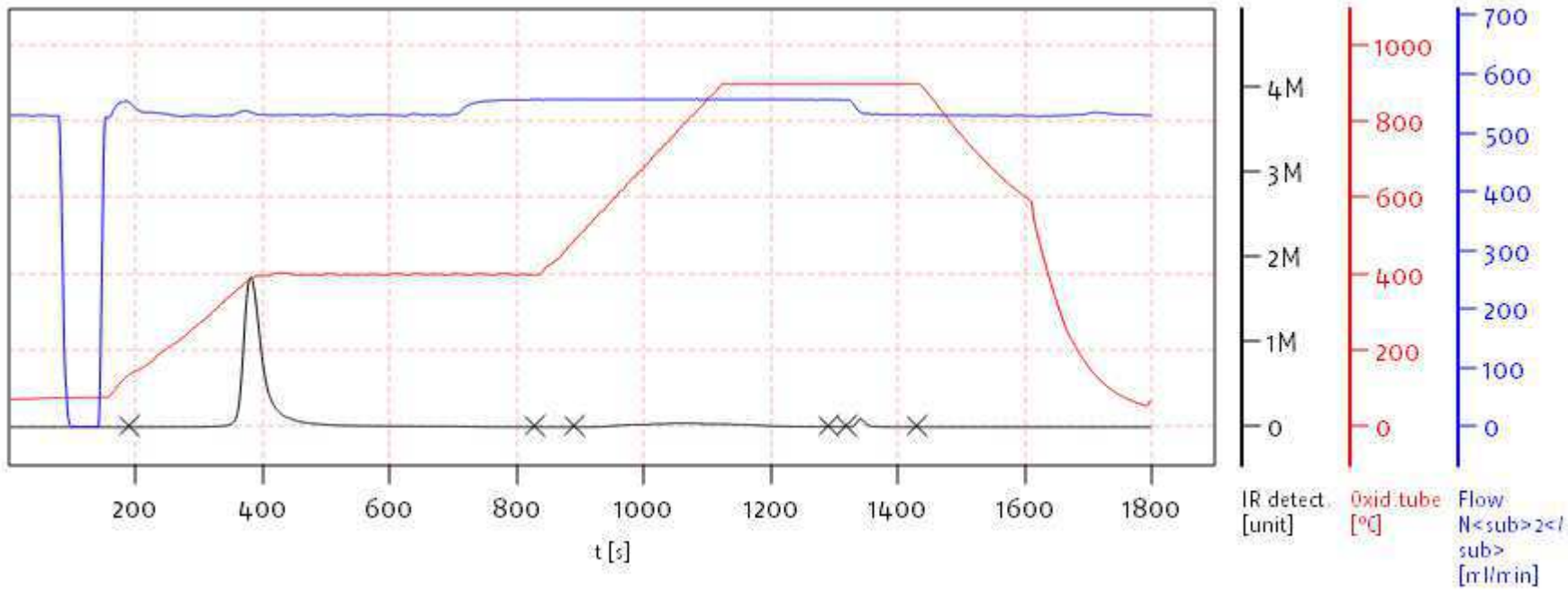
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
169	80	22L0137-19	283.30		CARBON	12/15/2022 10:18 PM	bl	1.312	2 485 768	1.478	0.018	59 696	331 943	1.293	0.167	0.9625	1.0000



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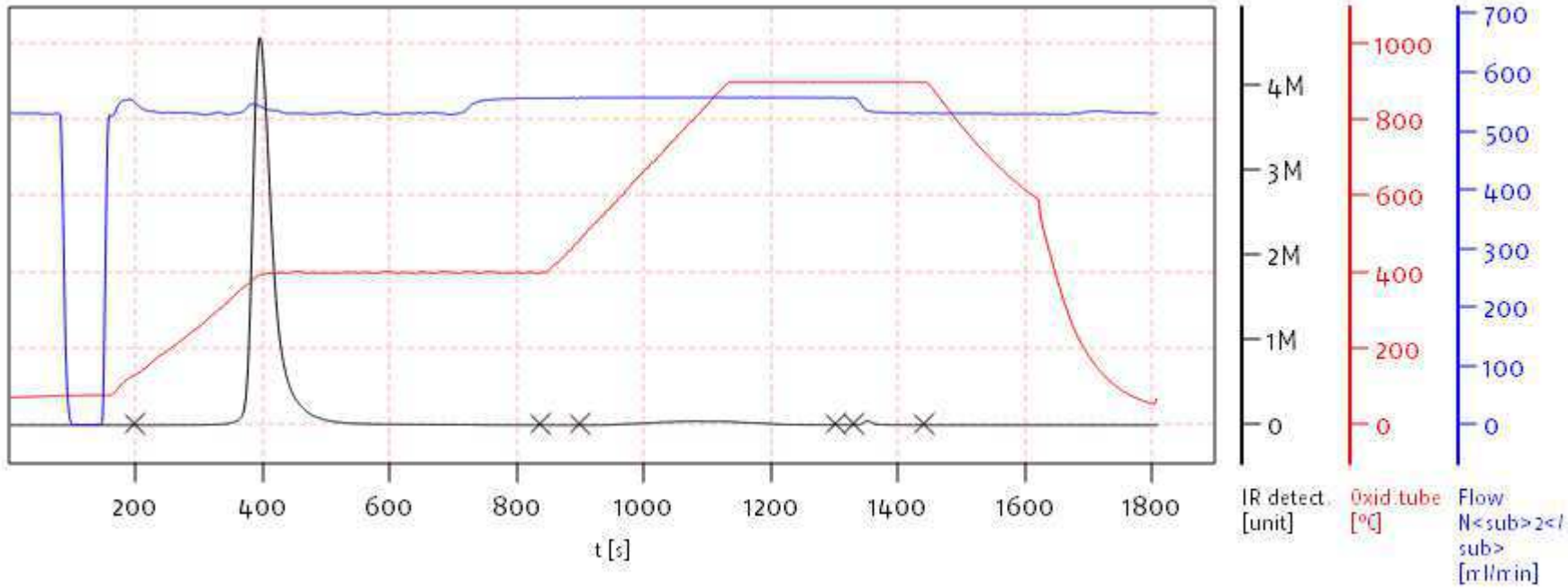
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
170	81	22L0137-20	554.90		CARBON	12/15/2022 10:49 PM	bl	1.728	6 447 079	1.809	0.004	39 272	317 627	1.724	0.081	0.9625	1.0000



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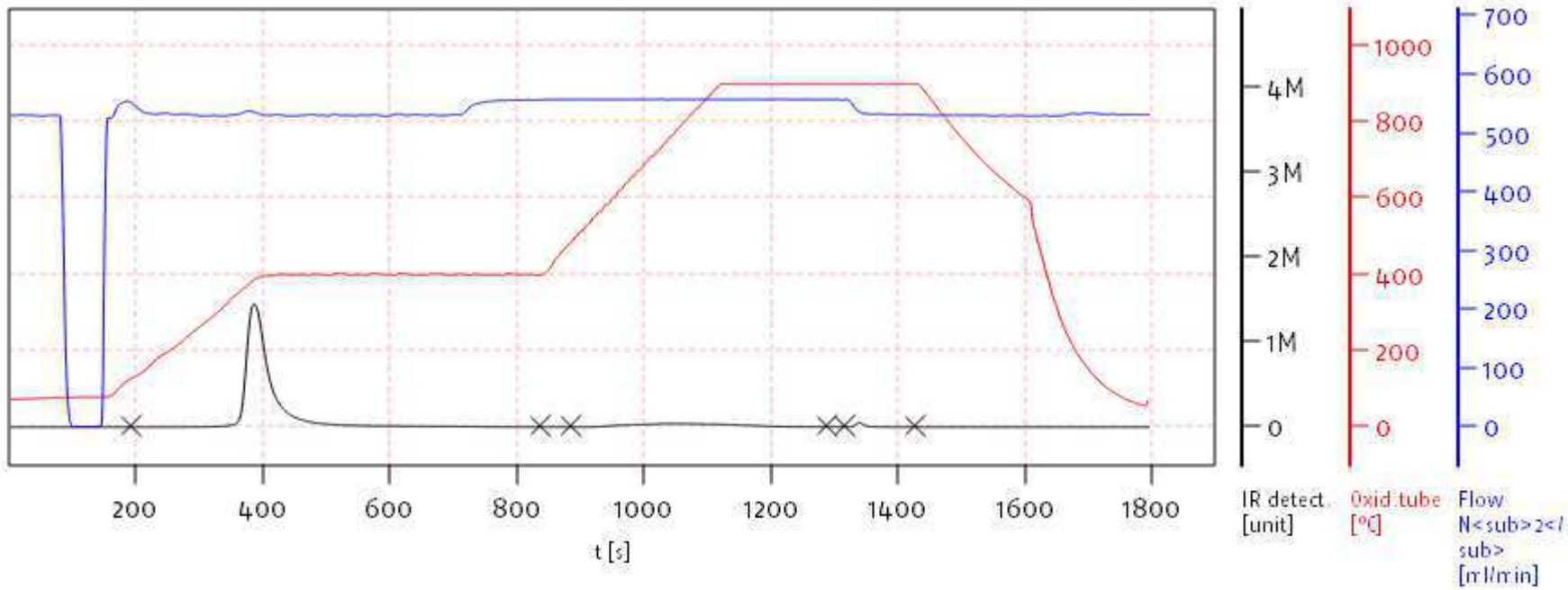
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
171	82	22L0137-21	277.80		CARBON	12/15/2022 11:19 PM	bl	1.258	2 363 462	1.408	0.004	34 068	296 456	1.253	0.150	0.9625	1.0000



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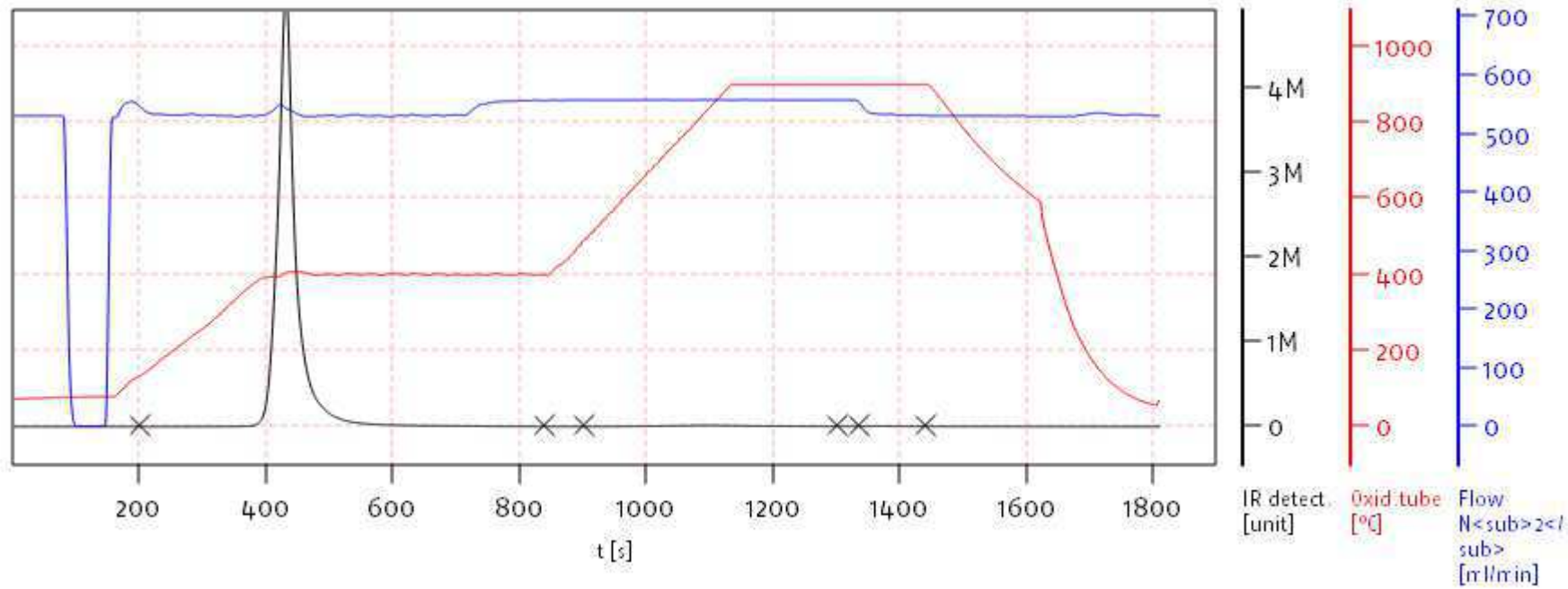
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
172	83	SKL0152-CCVE	20.90		CARBON	12/15/2022 11:50 PM	bl	45.397	6 394 242	45.936	0.000	15 938	99 423	45.397	0.540	0.9625	1.0000



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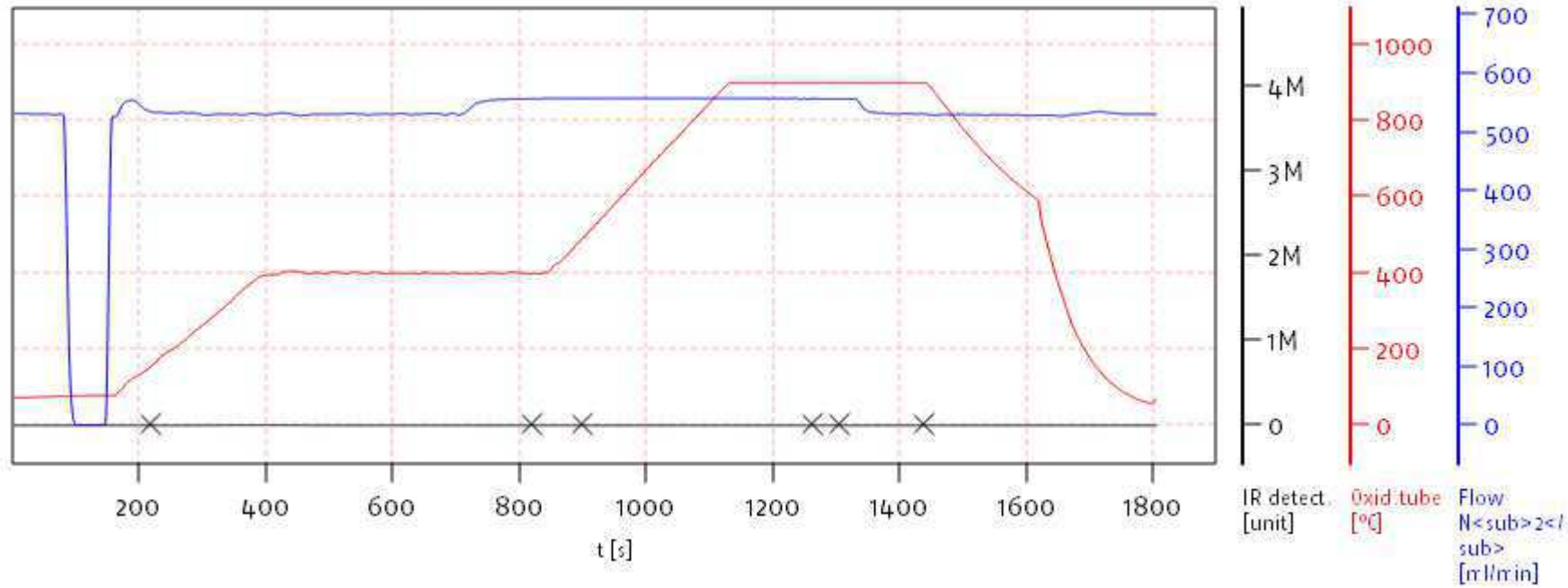
Date: Fri Dec 16 09:43:23 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
173	84	SKL0152-CCBE	516.20		CARBON	12/16/2022 12:20 AM	bl,C3u,C2u	0.000	14 918	0.000	0.000	386	588	0.000	0.000	0.9625	1.0000



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Serial No: 0300.181017
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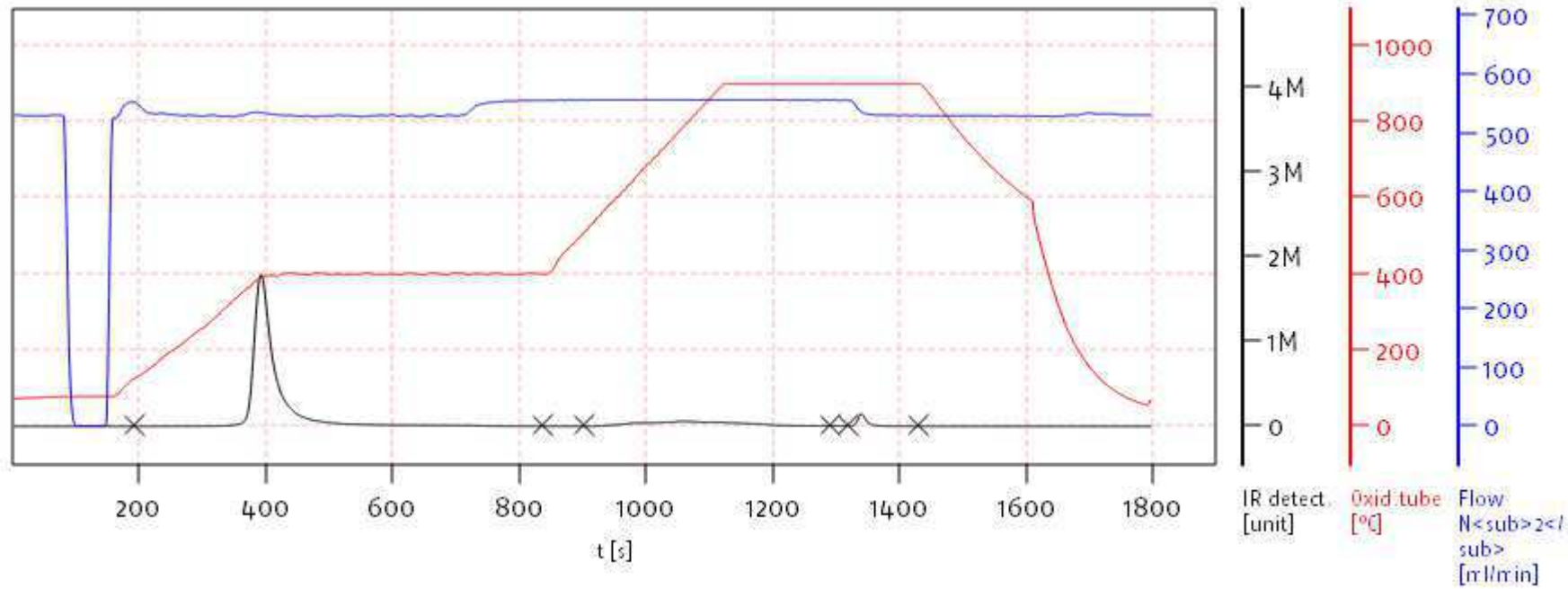
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
174	85	22L0137-22	303.20		CARBON	12/16/2022 12:51 AM	bl	1.301	2 605 260	1.504	0.034	92 479	423 668	1.267	0.203	0.9625	1.0000



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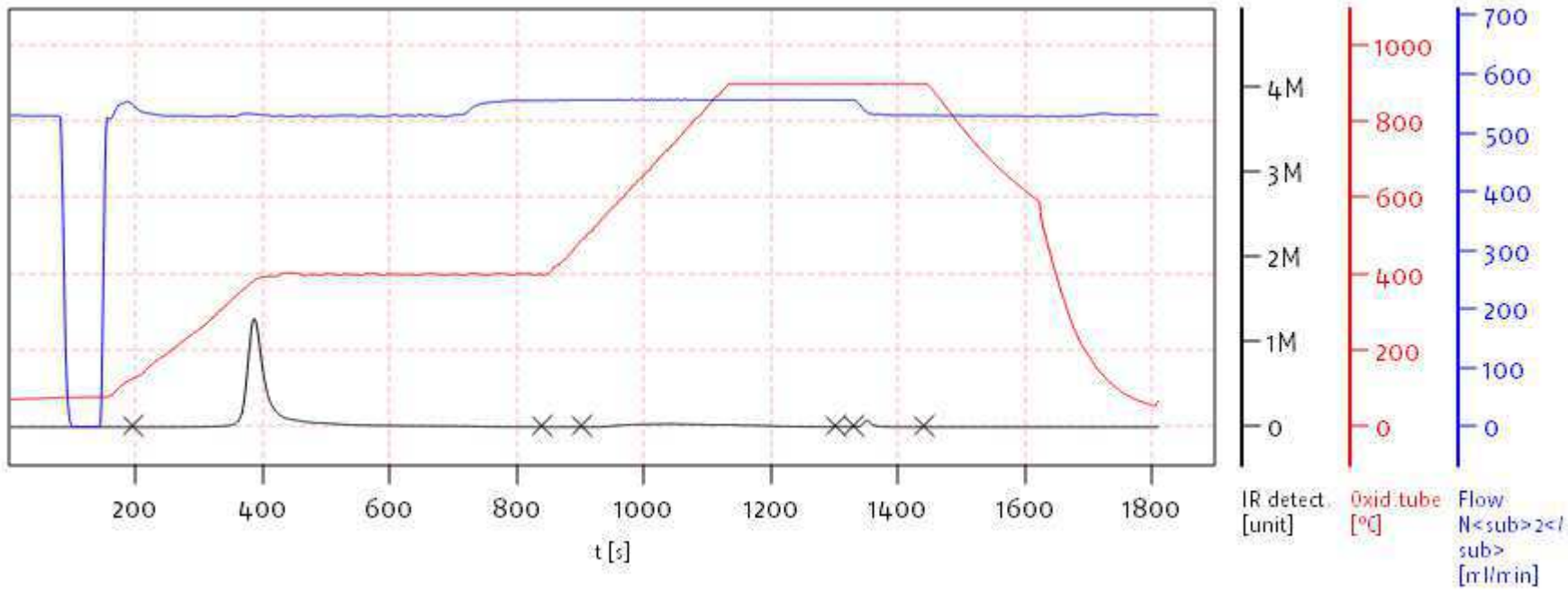
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
175	86	22L0137-23	200.70		CARBON	12/16/2022 1:21 AM	bl	1.353	1 826 710	1.552	0.017	48 104	284 629	1.336	0.199	0.9625	1.0000



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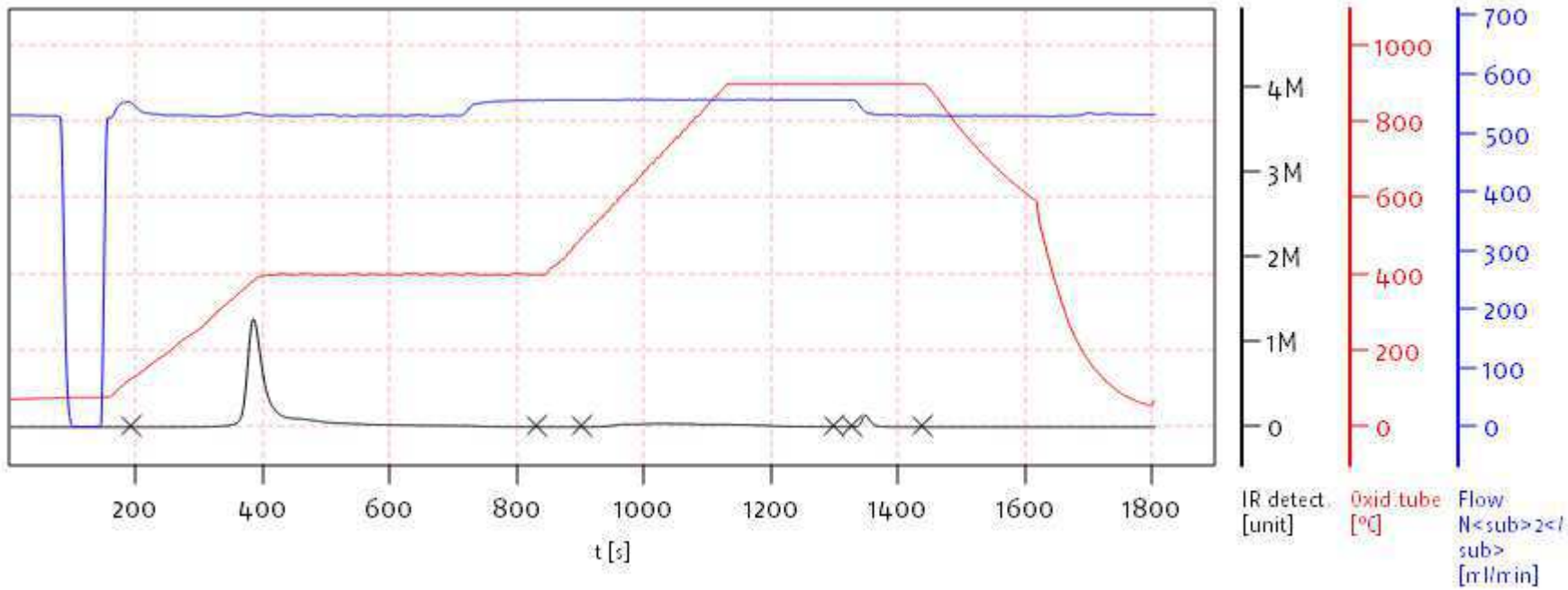
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
176	87	22L0137-24	211.60		CARBON	12/16/2022 1:52 AM	bl	1.375	1 919 243	1.593	0.042	84 207	323 944	1.333	0.218	0.9625	1.0000



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Serial No: 0300.181017
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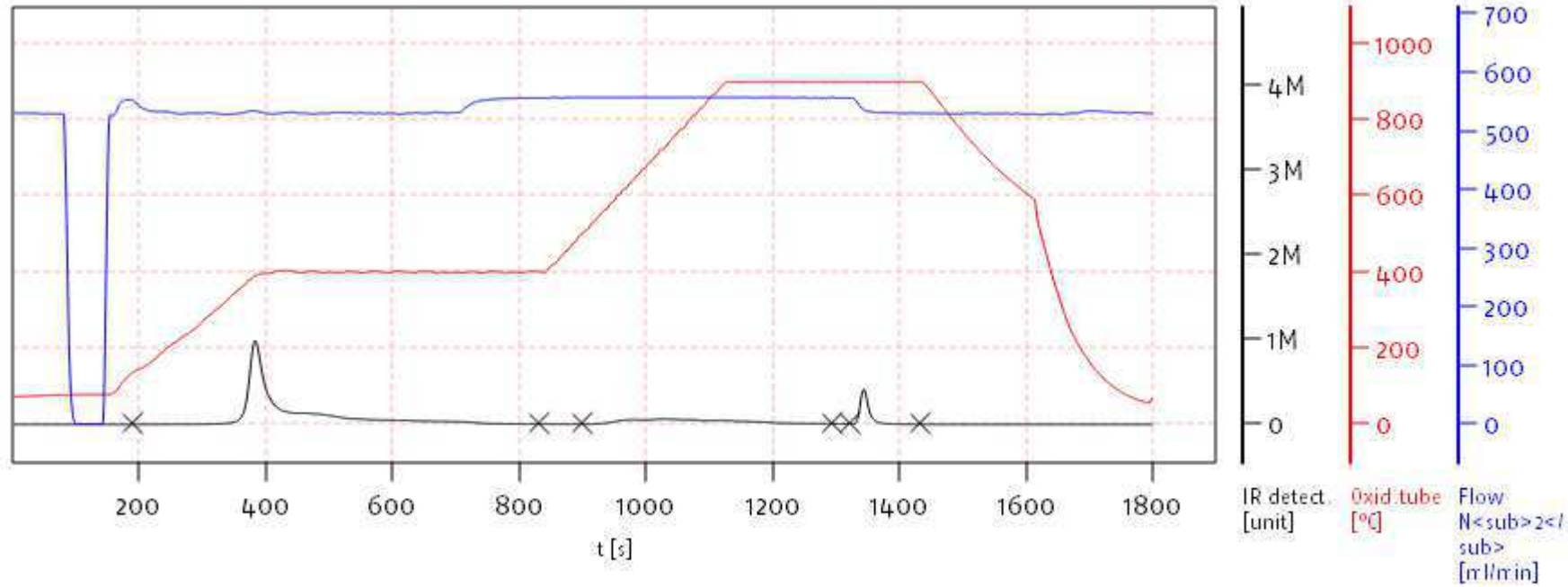
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
177	88	22L0137-25	280.40		CARBON	12/16/2022 2:22 AM	bl	1.159	1 973 195	1.422	0.124	251 312	504 561	1.034	0.264	0.9625	1.0000



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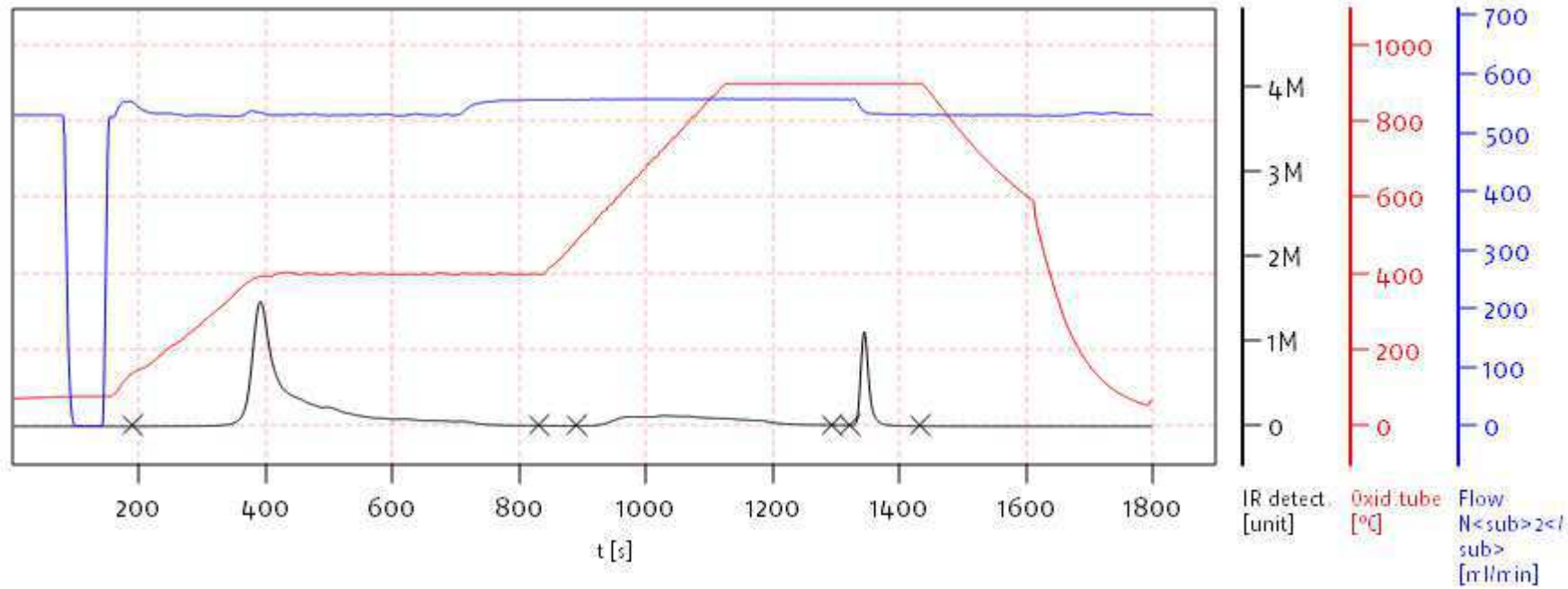
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
178	89	22L0137-26	534.80		CARBON	12/16/2022 2:53 AM	bl	1.223	3 765 198	1.522	0.182	653 691	1 057 664	1.042	0.298	0.9625	1.0000



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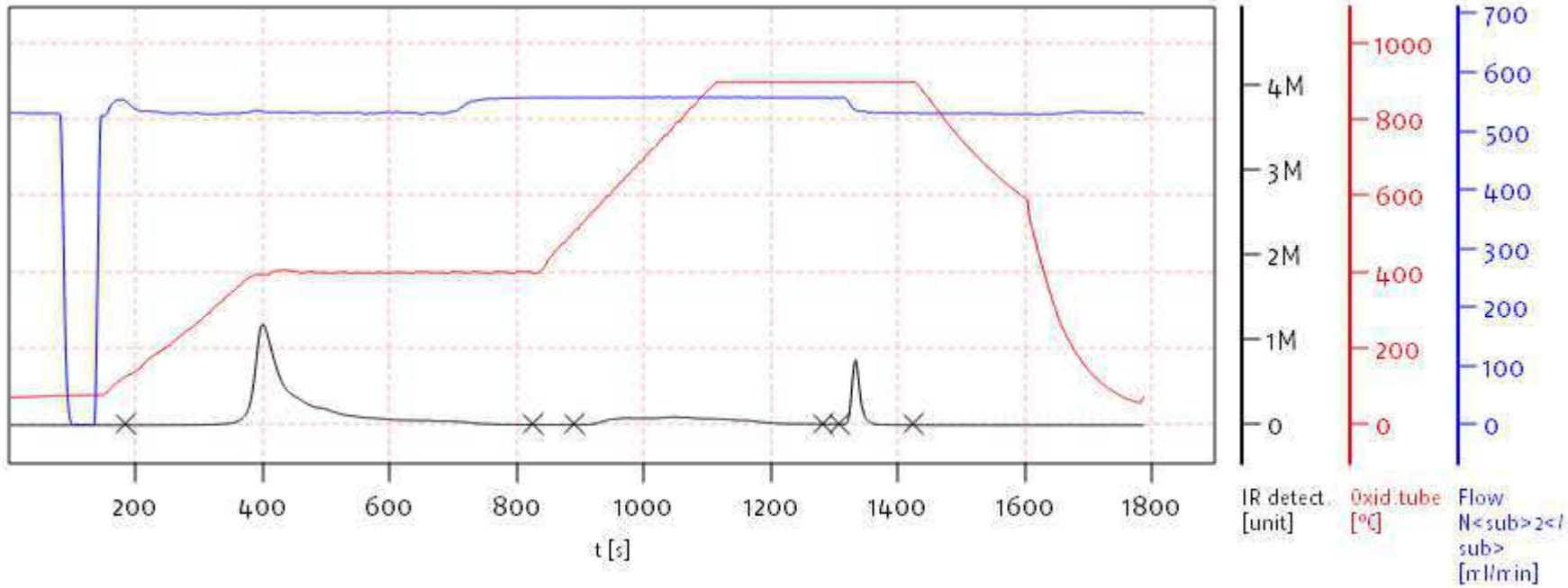
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
179	1	22L0137-27	505.00		CARBON	12/16/2022 3:23 AM	bl	1.039	3 112 351	1.273	0.129	446 139	790 411	0.910	0.234	0.9625	1.0000



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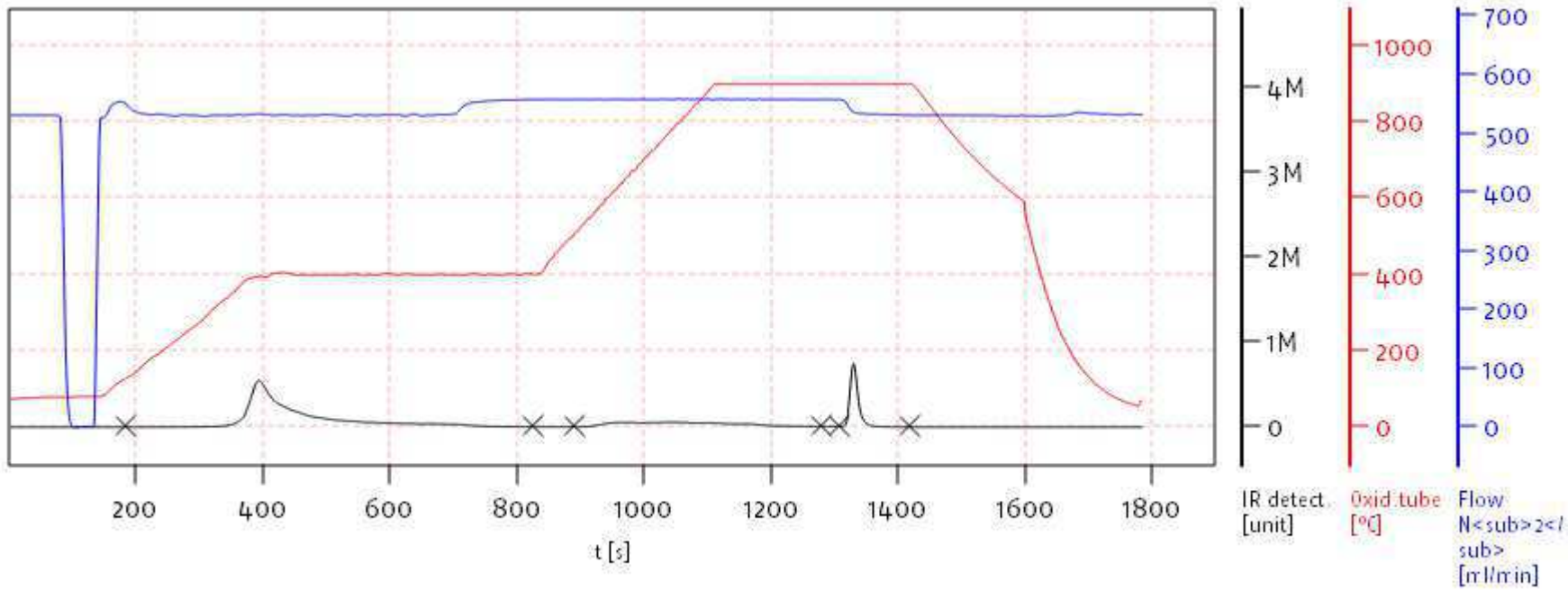
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
180	2	22L0137-28	339.40		CARBON	12/16/2022 3:53 AM	bl	0.948	1 771 749	1.167	0.182	425 528	506 462	0.766	0.219	0.9625	1.0000



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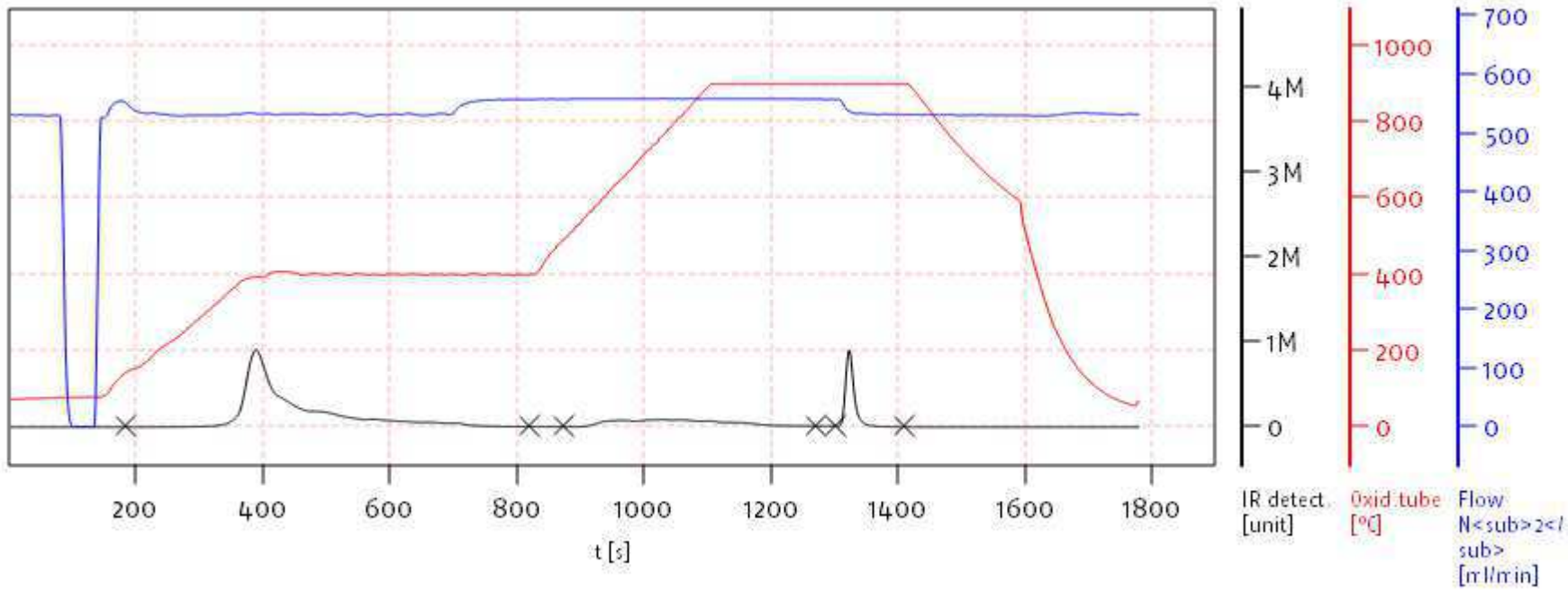
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
181	3	22L0137-29	520.50		CARBON	12/16/2022 4:23 AM	bl	0.961	2 850 211	1.175	0.153	540 629	745 489	0.808	0.214	0.9625	1.0000



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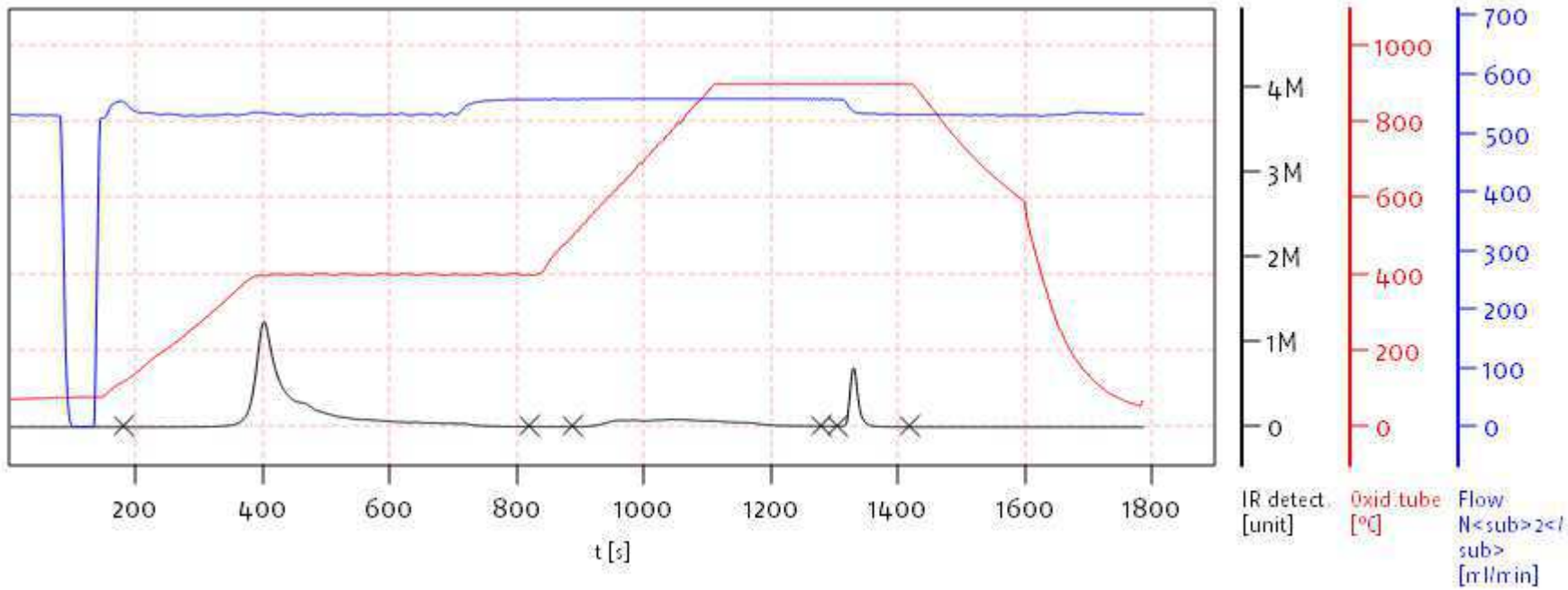
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
182	4	22L0137-30	503.30		CARBON	12/16/2022 4:53 AM	bl	0.998	3 003 671	1.218	0.116	404 991	743 547	0.881	0.221	0.9625	1.0000



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Balance: BAL3
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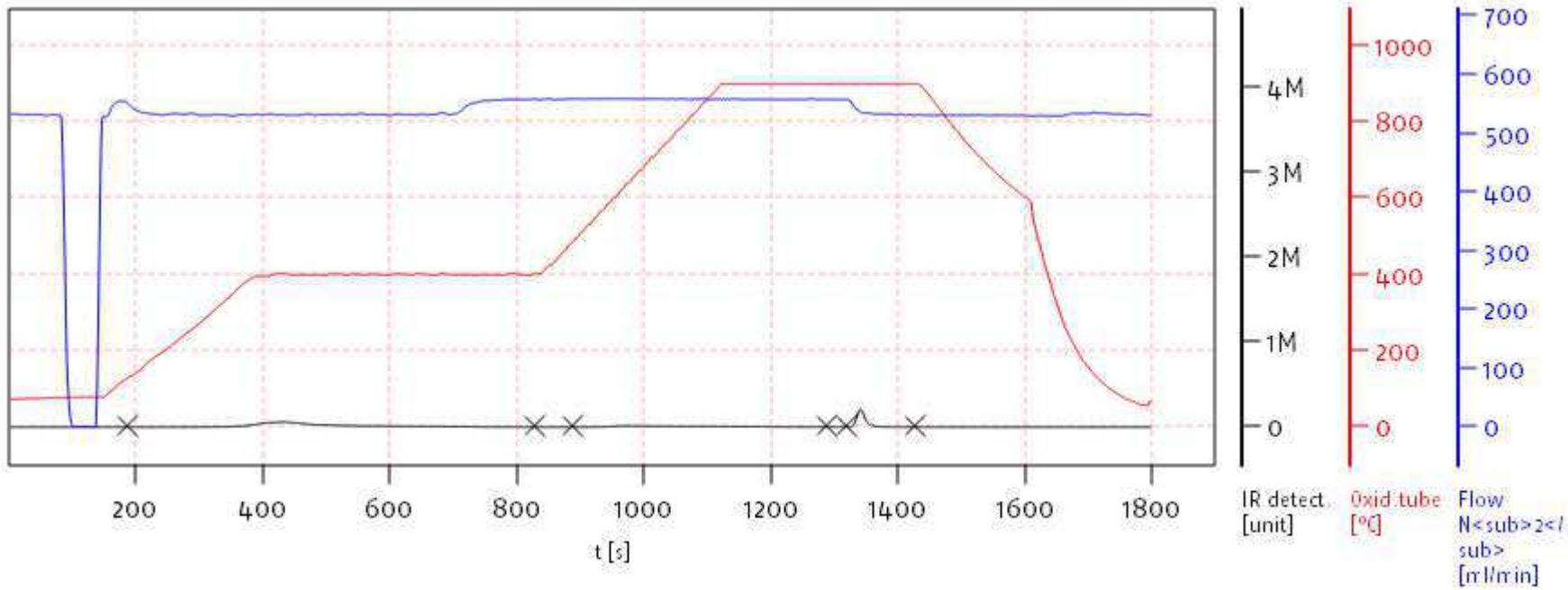
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
183	5	22L0137-31	528.50		CARBON	12/16/2022 5:24 AM	bl	0.110	315 802	0.130	0.029	124 714	95 175	0.082	0.020	0.9625	1.0000



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Balance: BAL3
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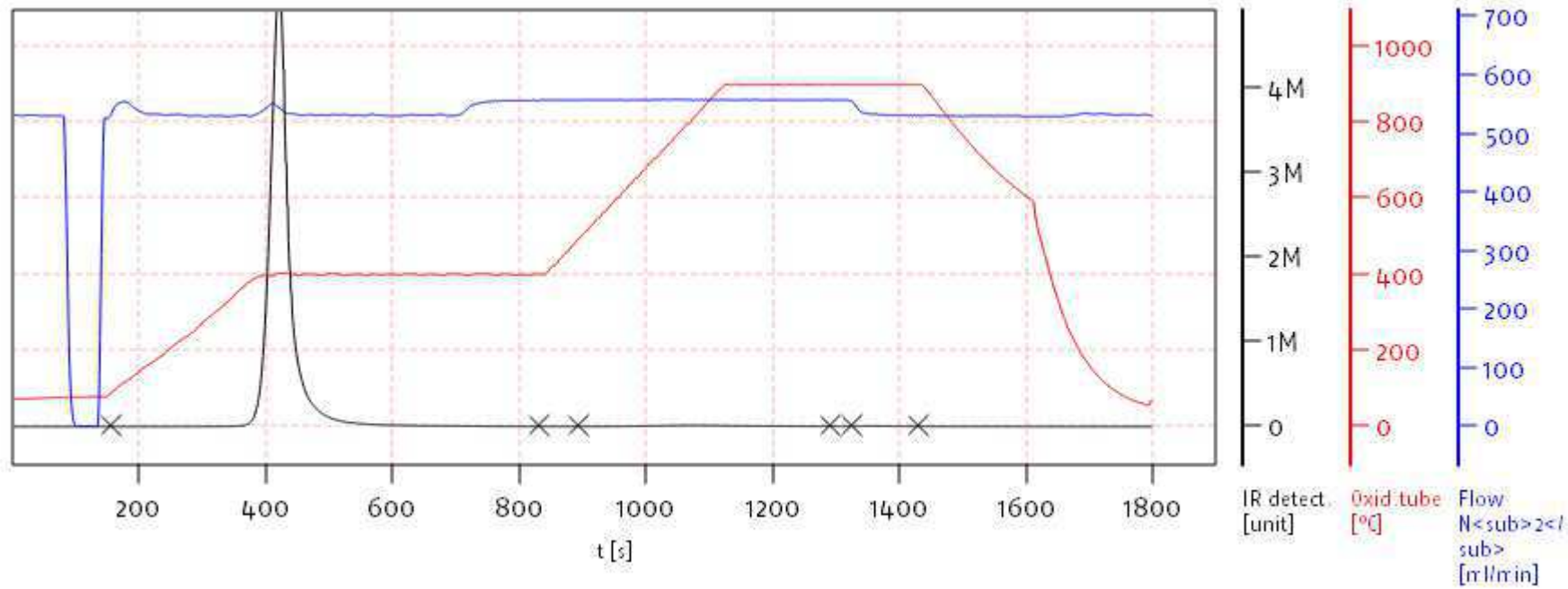
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
184	6	SKL0152-CCVF	22.40		CARBON	12/16/2022 5:54 AM	bl	45.626	6 885 811	46.185	0.000	19 561	107 284	45.626	0.558	0.9625	1.0000



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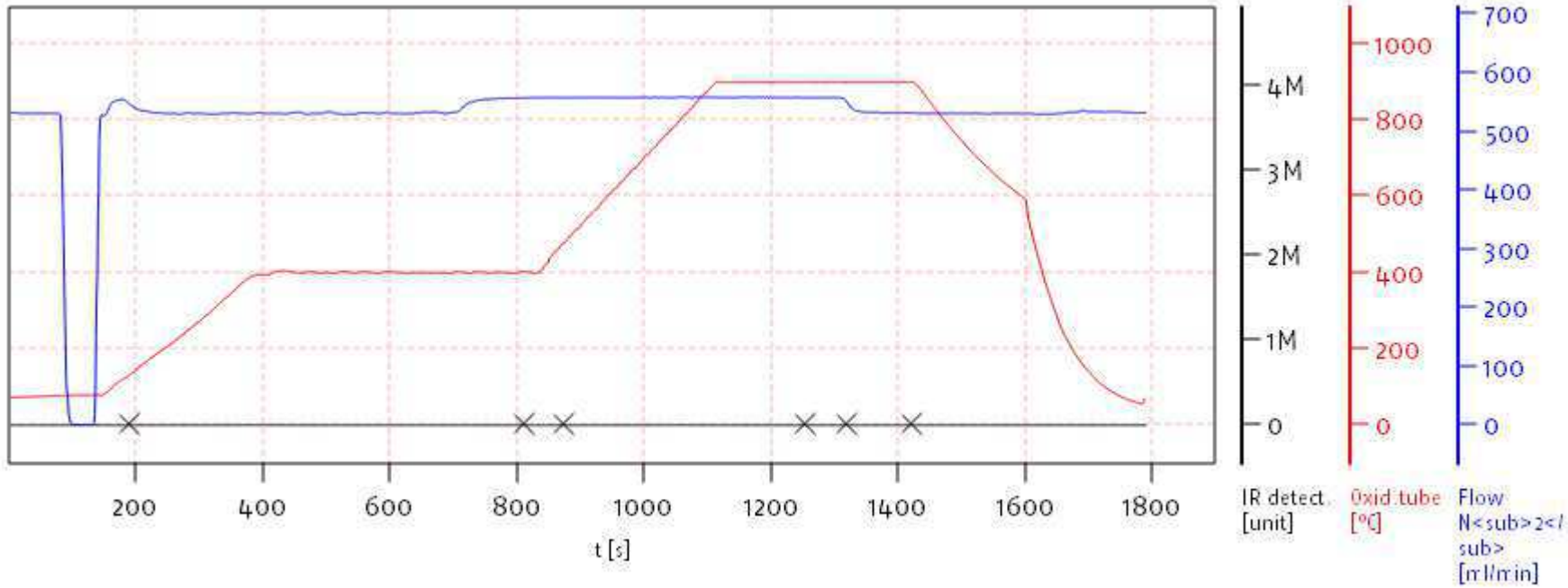
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
185	7	SKL0152-CCBF	503.20		CARBON	12/16/2022 6:24 AM	bl,C2u	0.000	5 900	0.000	0.000	253	4 478	0.000	0.000	0.9625	1.0000



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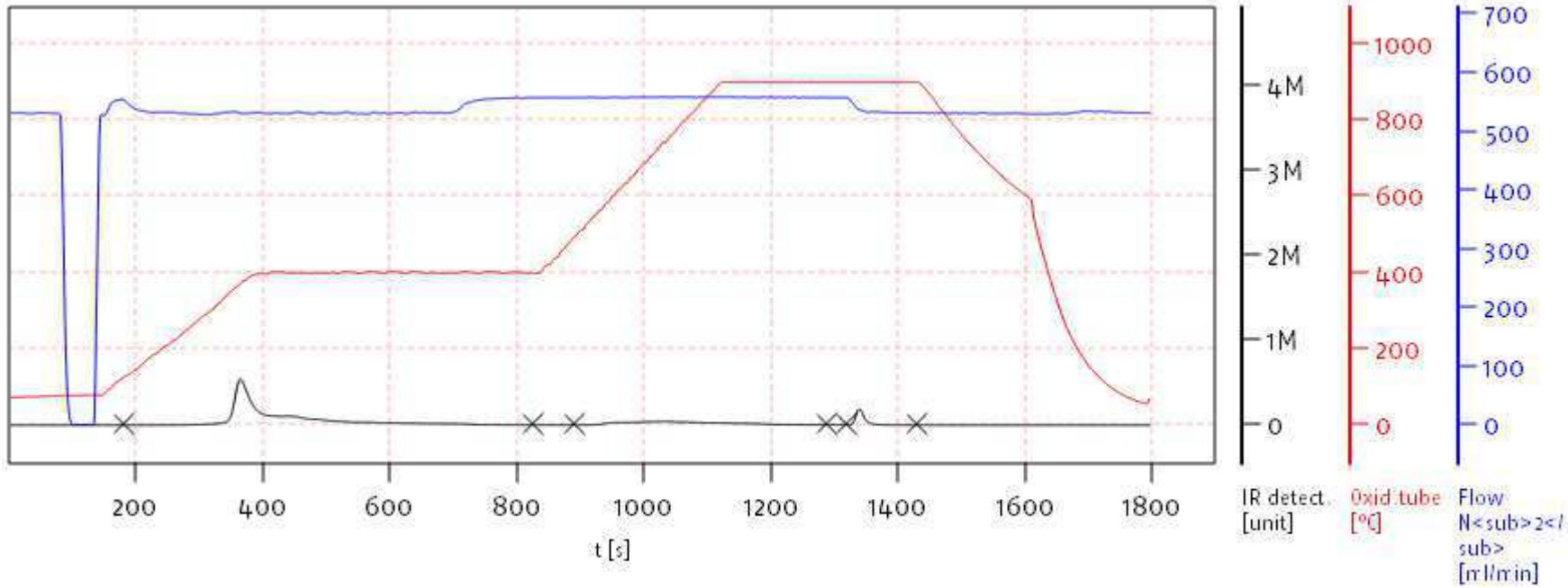
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
186	8	22L0137-32	206.60		CARBON	12/16/2022 6:55 AM	bl	0.932	1 225 458	1.148	0.067	115 751	315 353	0.865	0.216	0.9625	1.0000



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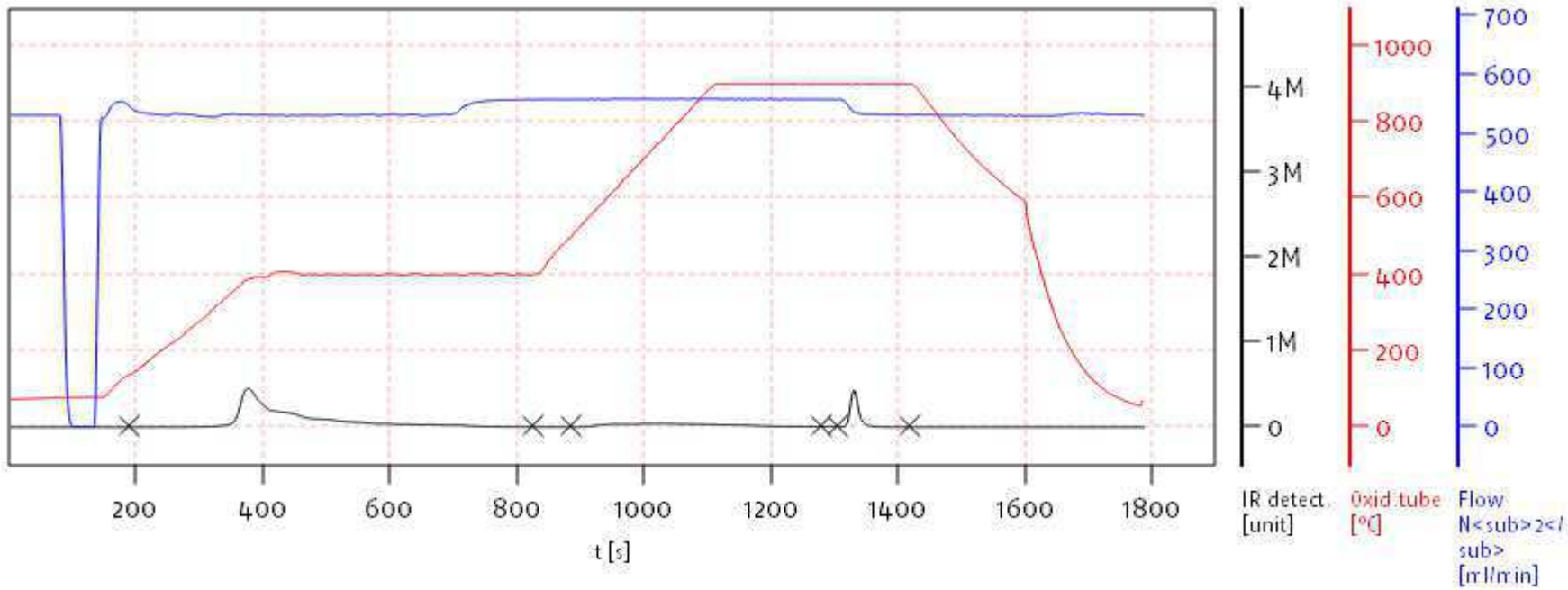
Date: Fri Dec 16 09:43:23 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
187	9	22L0137-33	320.00		CARBON	12/16/2022 7:25 AM	bl	0.801	1 514 691	0.959	0.108	250 588	351 735	0.693	0.157	0.9625	1.0000



Name:

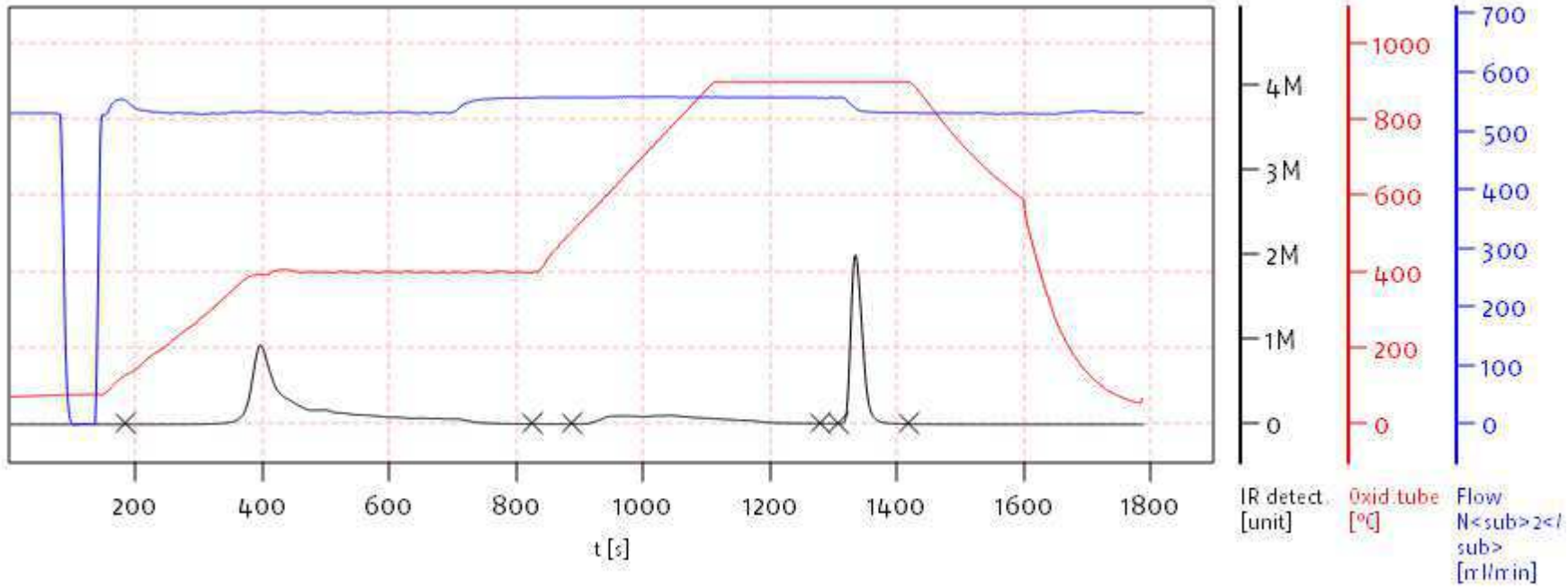
Access: soliTOC superuser

Date: Fri Dec 16 09:43:23 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
188	10	22L0137-34	531.70		CARBON	12/16/2022 7:55 AM	bl	1.222	2 752 650	1.460	0.458	1 598 294	845 850	0.764	0.239	0.9625	1.0000



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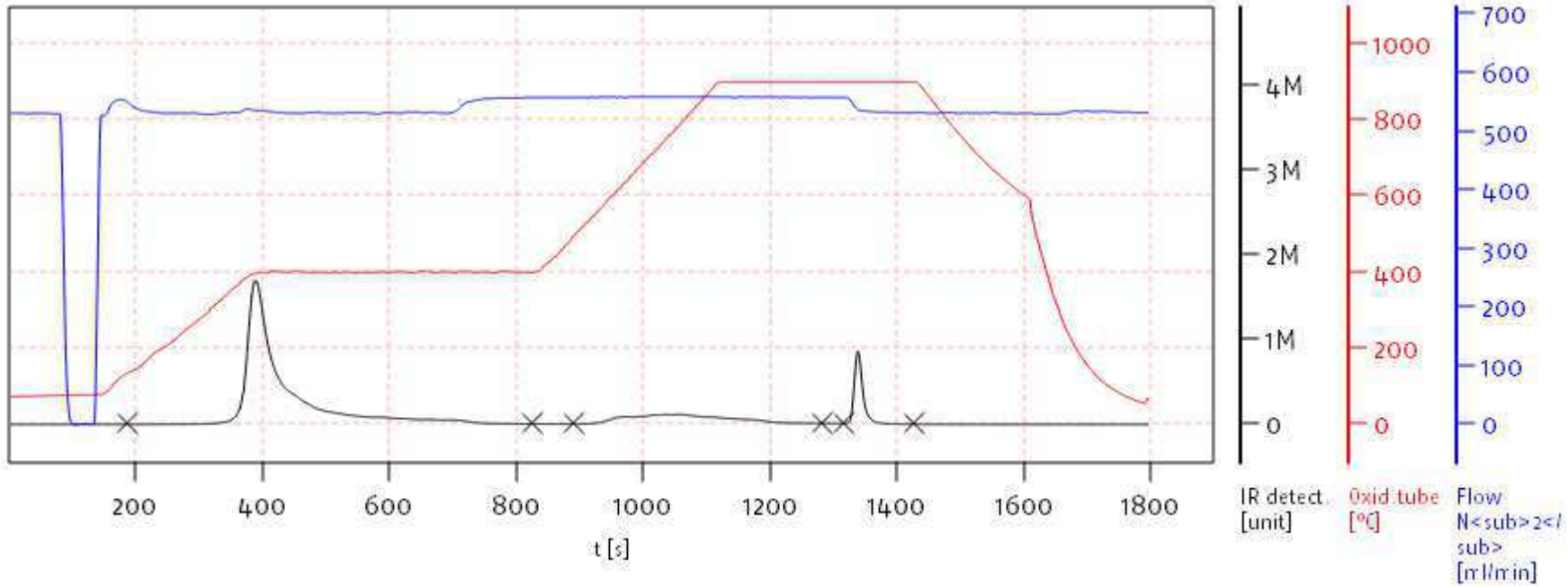
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
189	11	22L0137-35	513.30		CARBON	12/16/2022 8:25 AM	bl	1.296	3 977 800	1.560	0.149	522 035	899 161	1.147	0.263	0.9625	1.0000



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Access: soliTOC superuser

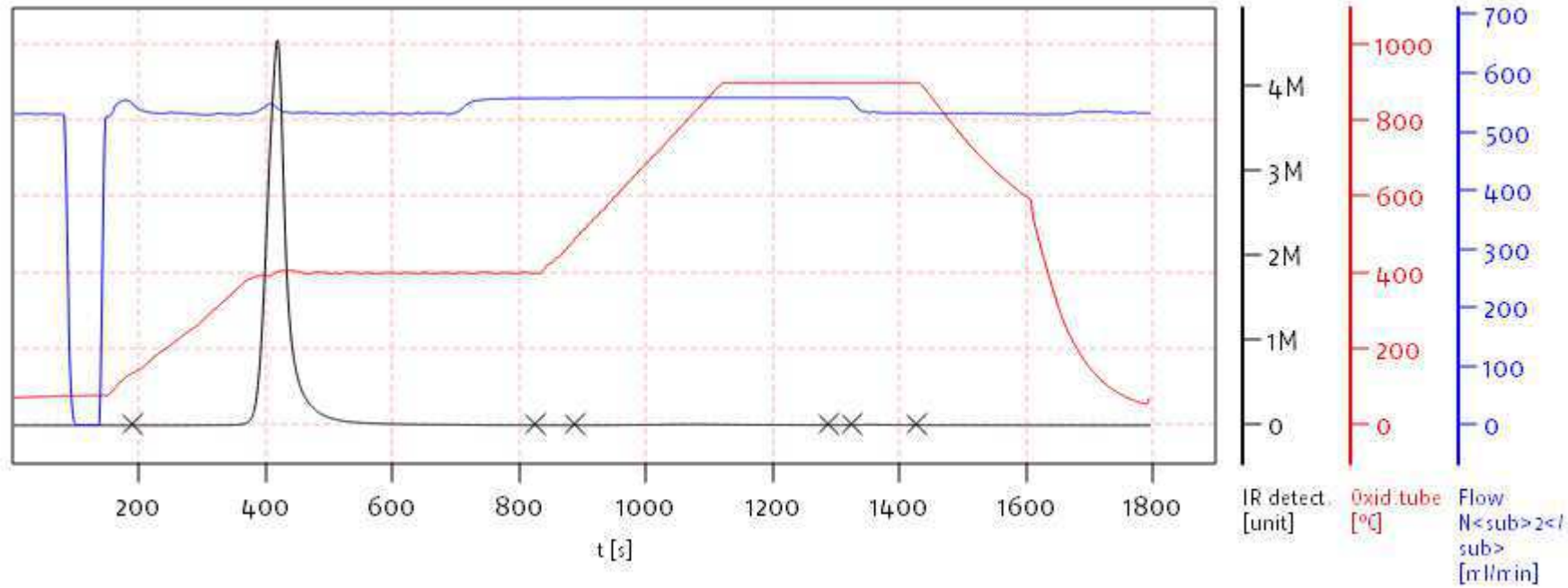
Date: Fri Dec 16 09:43:23 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
190	12	SKL0152-CCVG	20.60		CARBON	12/16/2022 8:56 AM	bl	45.057	6 255 935	45.581	0.000	21 492	96 202	45.057	0.524	0.9625	1.0000



Name:

Access: soliTOC superuser

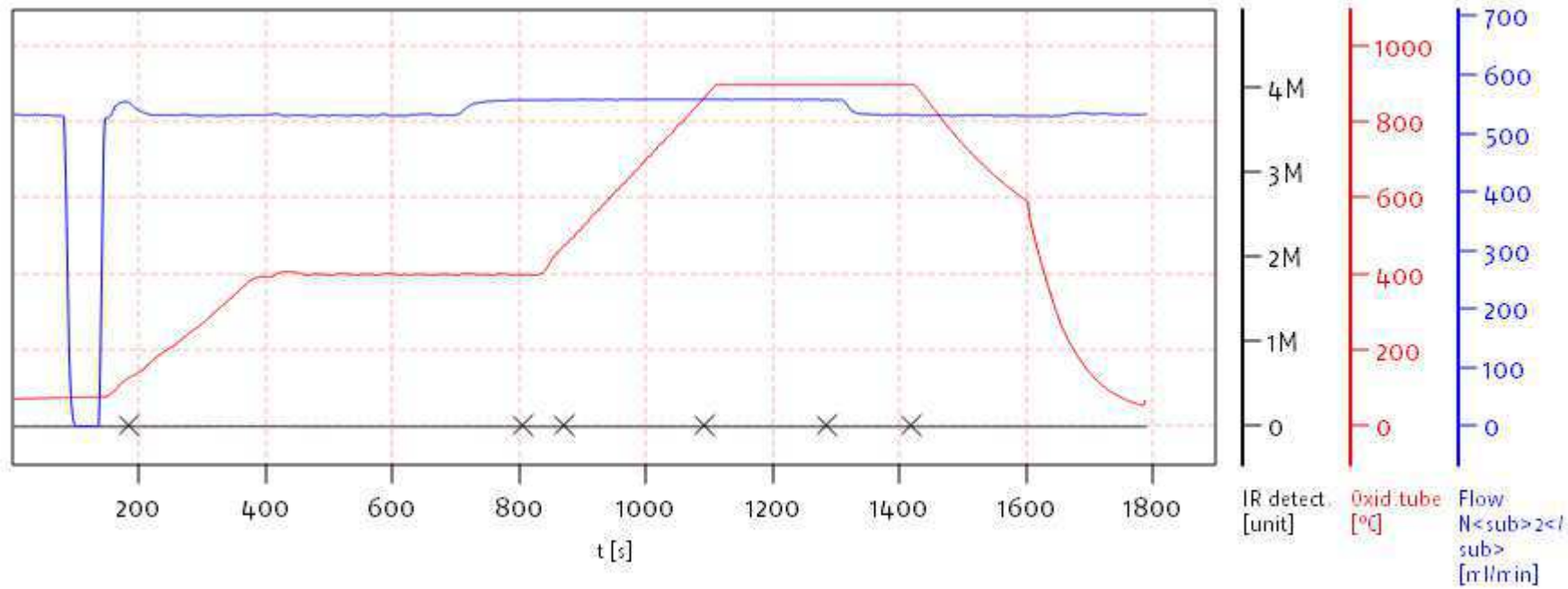
Date: Fri Dec 16 09:43:23 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Document: 121222 DOE from: 12/16/2022 9:42 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
191	13	SKL0152-CCBG	509.80		CARBON	12/16/2022 9:26 AM	bl,C3u,C2u	0.000	11 115	0.000	0.000	368	158	0.000	0.000	0.9625	1.0000



Name:

Access: soliTOC superuser

Date: Fri Dec 16 09:43:23 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 121222 DOE from: 12/16/2022 9:42 AM

INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FD00070	Instrument:	TOC Cube
Calibration Date:	04/26/2022 11:29		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	0.0080973	1449743	0.014695	1300238	0.021293	1292913	0.02939	1293535	0.044385	2094063	0.05878	1400085
Total Carbon	0.0080973	1449743	0.014695	1300238	0.021293	1292913	0.02939	1293535	0.044385	2094063	0.05878	1400085
Total Inorganic Carbon	0.0080973	1449743	0.014695	1300238	0.021293	1292913	0.02939	1293535	0.044385	2094063	0.05878	1400085
% Soot	0.0080973	1449743	0.014695	1300238	0.021293	1292913	0.02939	1293535	0.044385	2094063	0.05878	1400085

INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FD00070
Instrument: TOC Cube
Calibration Date: 04/26/2022 11:29

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	0.074075	1370638	0.08937	1351930	0.12056	2158544	0.14995	1559046	0.24	1346463	0.288	1430135
Total Carbon	0.074075	1370638	0.08937	1351930	0.12056	2158544	0.14995	1559046	0.24	1346463	0.288	1430135
Total Inorganic Carbon	0.074075	1370638	0.08937	1351930	0.12056	2158544	0.14995	1559046	0.24	1346463	0.288	1430135
% Soot	0.074075	1370638	0.08937	1351930	0.12056	2158544	0.14995	1559046	0.24	1346463	0.288	1430135

INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FD00070
Instrument: TOC Cube
Calibration Date: 04/26/2022 11:29

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	0.414	1337053	0.606	1385937	0.894	1382774	1.188	1379790	1.5	1375927	1.818	1372882
Total Carbon	0.414	1337053	0.606	1385937	0.894	1382774	1.188	1379790	1.5	1375927	1.818	1372882
Total Inorganic Carbon	0.414	1337053	0.606	1385937	0.894	1382774	1.188	1379790	1.5	1375927	1.818	1372882
% Soot	0.414	1337053	0.606	1385937	0.894	1382774	1.188	1379790	1.5	1375927	1.818	1372882

INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FD00070
Instrument: TOC Cube
Calibration Date: 04/26/2022 11:29

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	2.49	1398606	2.982	1376871	4.188	1256057	4.818	1279542	5.406	1283358	7.2	1301408
Total Carbon	2.49	1398606	2.982	1376871	4.188	1256057	4.818	1279542	5.406	1283358	7.2	1301408
Total Inorganic Carbon	2.49	1398606	2.982	1376871	4.188	1256057	4.818	1279542	5.406	1283358	7.2	1301408
% Soot	2.49	1398606	2.982	1376871	4.188	1256057	4.818	1279542	5.406	1283358	7.2	1301408

INITIAL CALIBRATION DATA

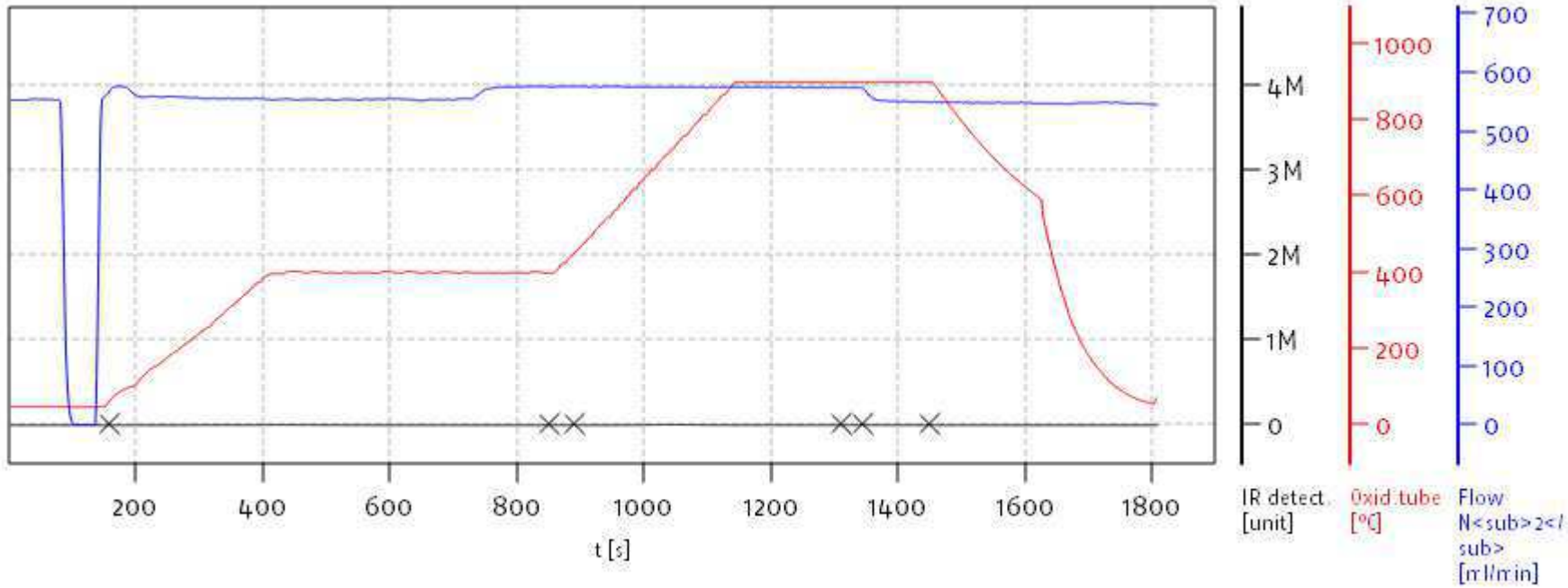
EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	22L0136
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FD00070	Instrument:	TOC Cube
Calibration Date:	04/26/2022 11:29		

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Total Organic Carbon	1424064	15.9	0.9988			
Total Carbon	1424064	15.9	0.9988			
Total Inorganic Carbon	1424064	15.9	0.9988			
% Soot	1424064	15.9	0.9988			

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
1	1	BLANK	1.00		1.00	CARBON	4/26/2022 11:29 AM	0.000	0.000	0.000	bl	29 049	30 612	3 899	1.0000	1.0000



Name:

Access: soliTOC superuser

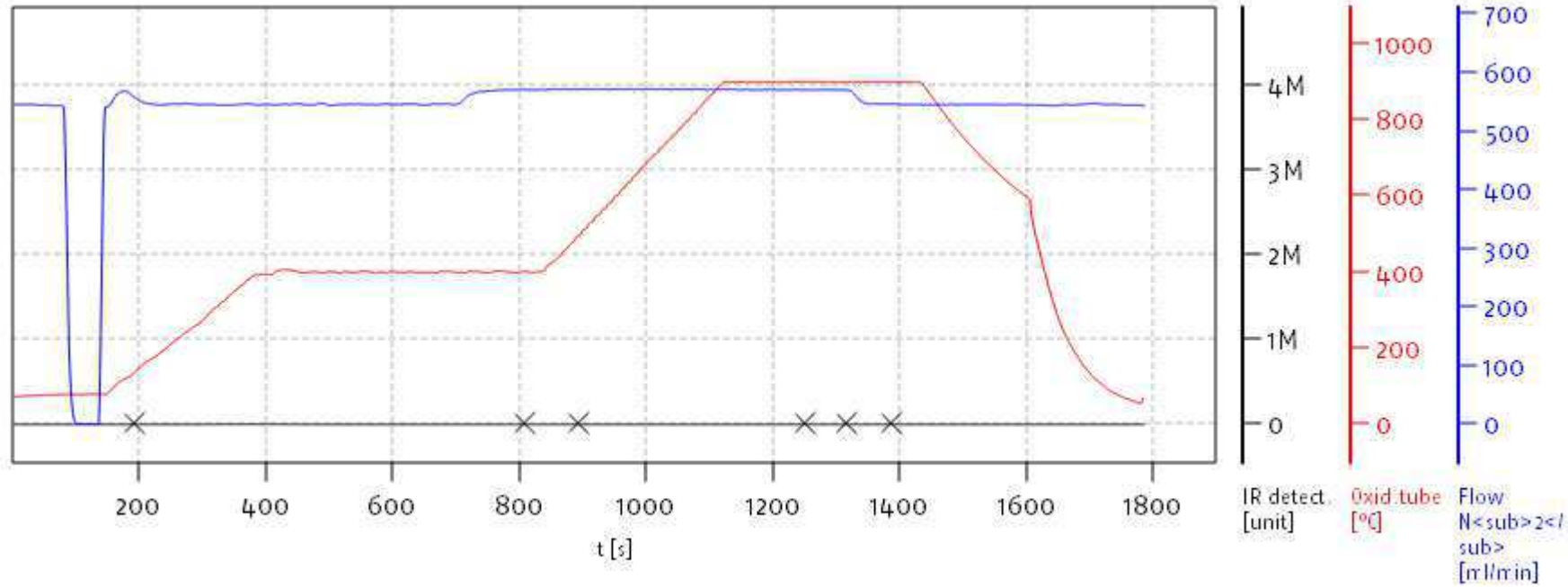
Date: Wed Apr 27 11:07:12 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
2	2	BLANK	1.00		1.00	CARBON	4/26/2022 12:00 PM	0.000	0.000	0.000	bl	11 115	60	8	1.0000	1.0000



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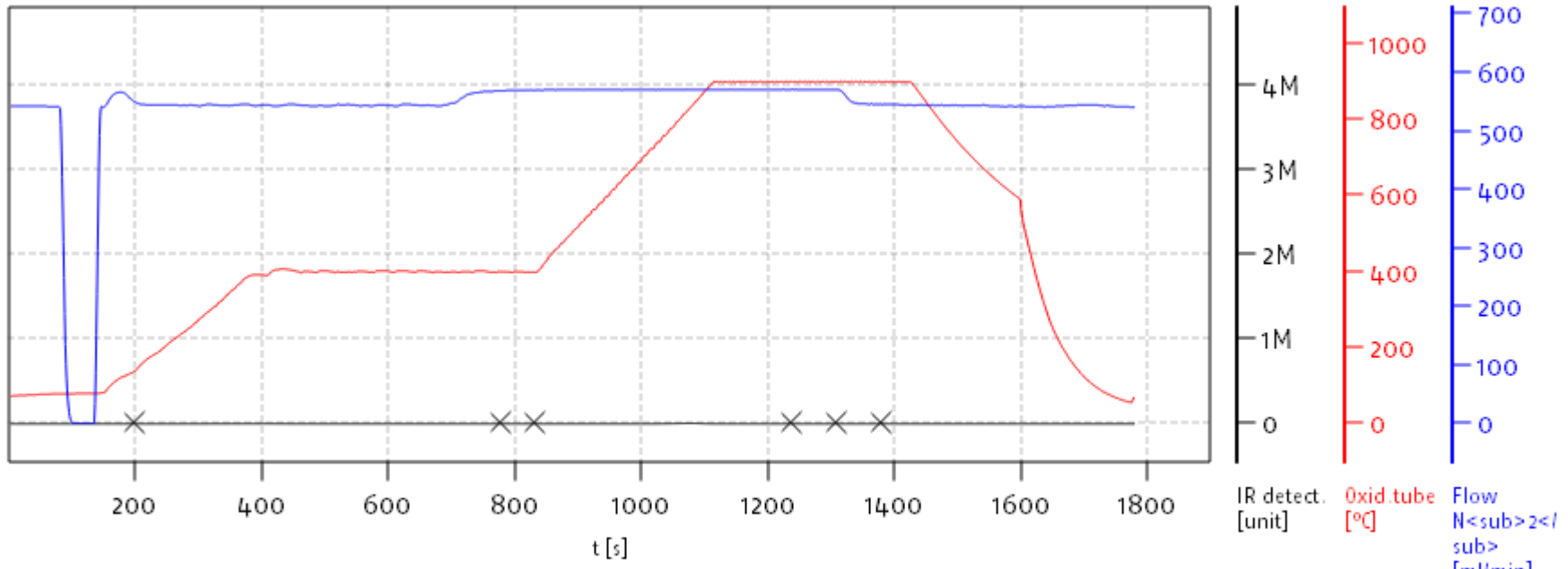
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
3	3	SEQ-CAL1	200.00	0.0027	1.00	CARBON	4/26/2022 12:30 PM	0.010	0.008	0.018	bl,C1u,C2u	7 294	11 739	22	1.0000	0.7425



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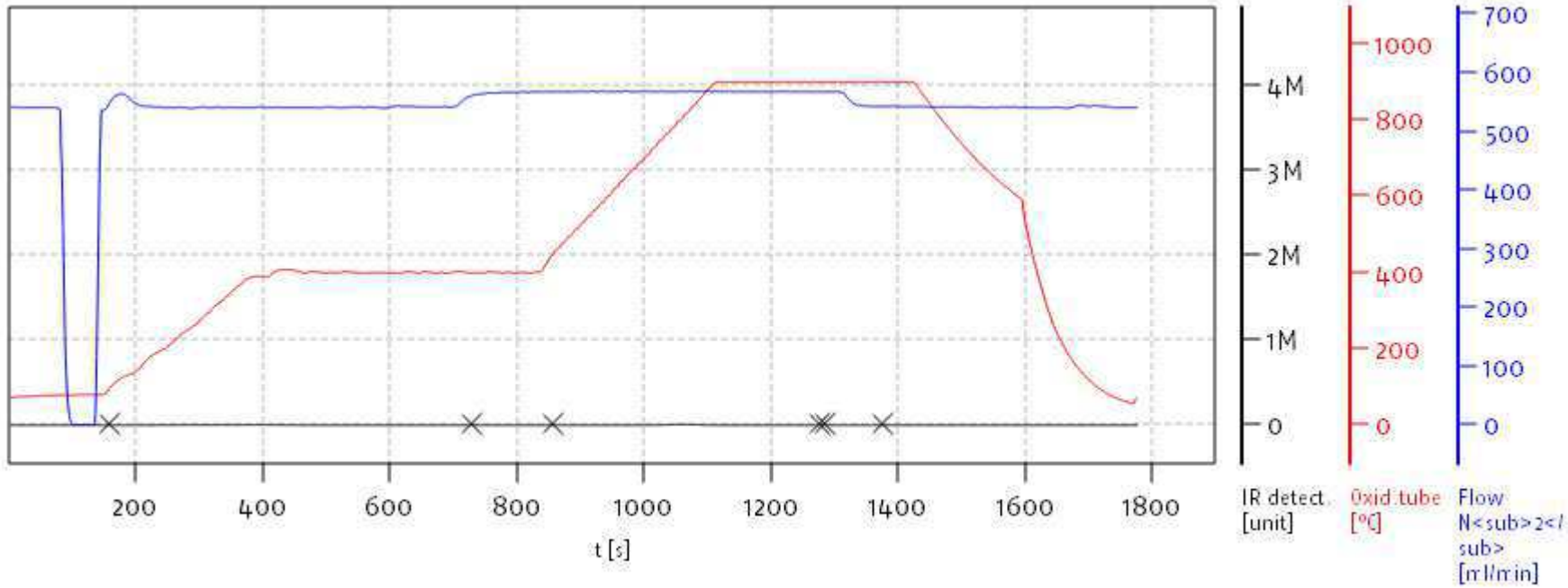
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
4	4	SEQ-CAL2	200.00	0.0049	1.00	CARBON	4/26/2022 1:00 PM	0.023	0.015	0.038	bl,C2u	23 296	19 107	47	1.0000	0.8936



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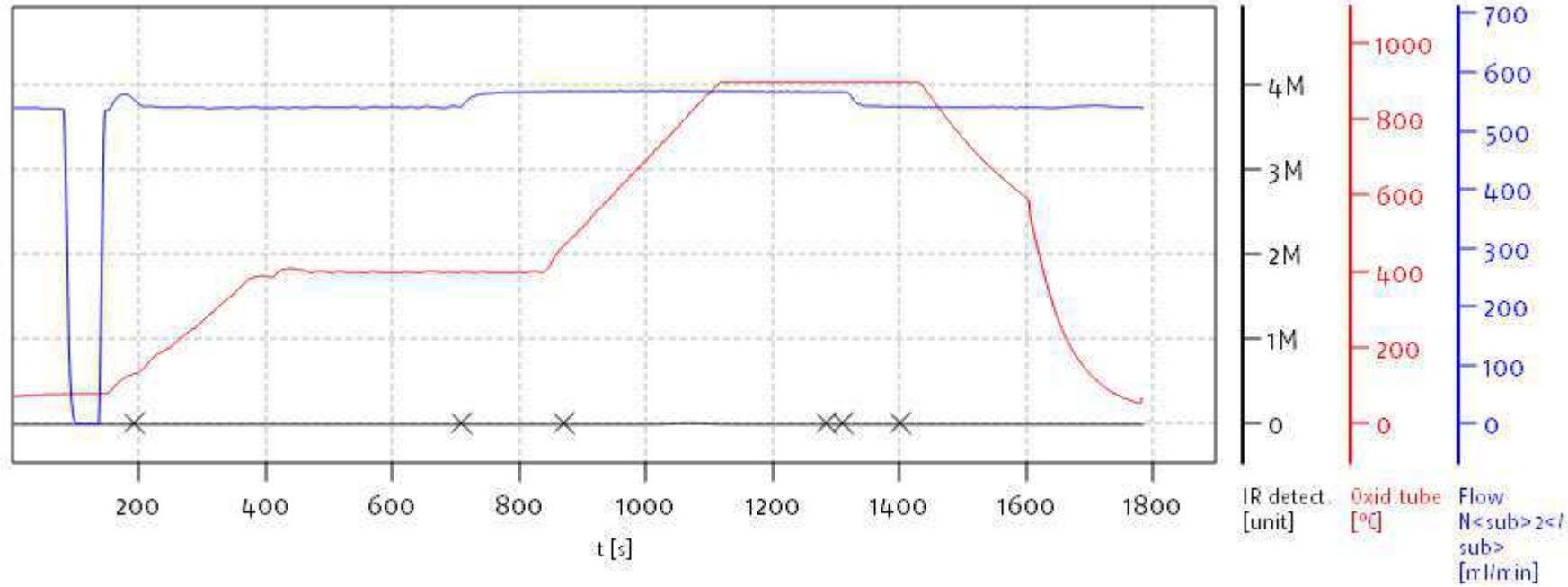
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
5	5	SEQ-CAL3	200.00	0.0071	1.00	CARBON	4/26/2022 1:30 PM	0.006	0.022	0.028	bl,C1u,C2u	2 319	27 530	170	1.0000	0.9343



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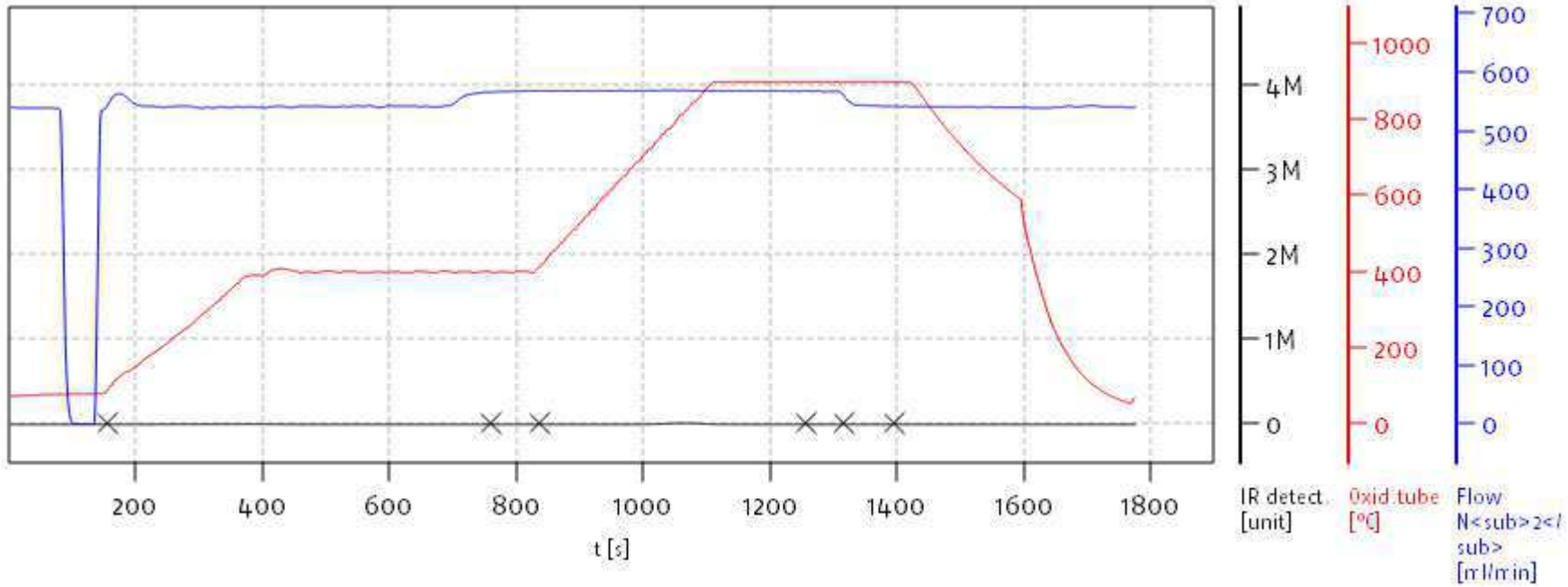
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
6	6	SEQ-CAL4	200.00	0.0098	1.00	CARBON	4/26/2022 2:00 PM	0.020	0.030	0.050	bl,C2u	19 746	38 017	109	1.0000	0.9461



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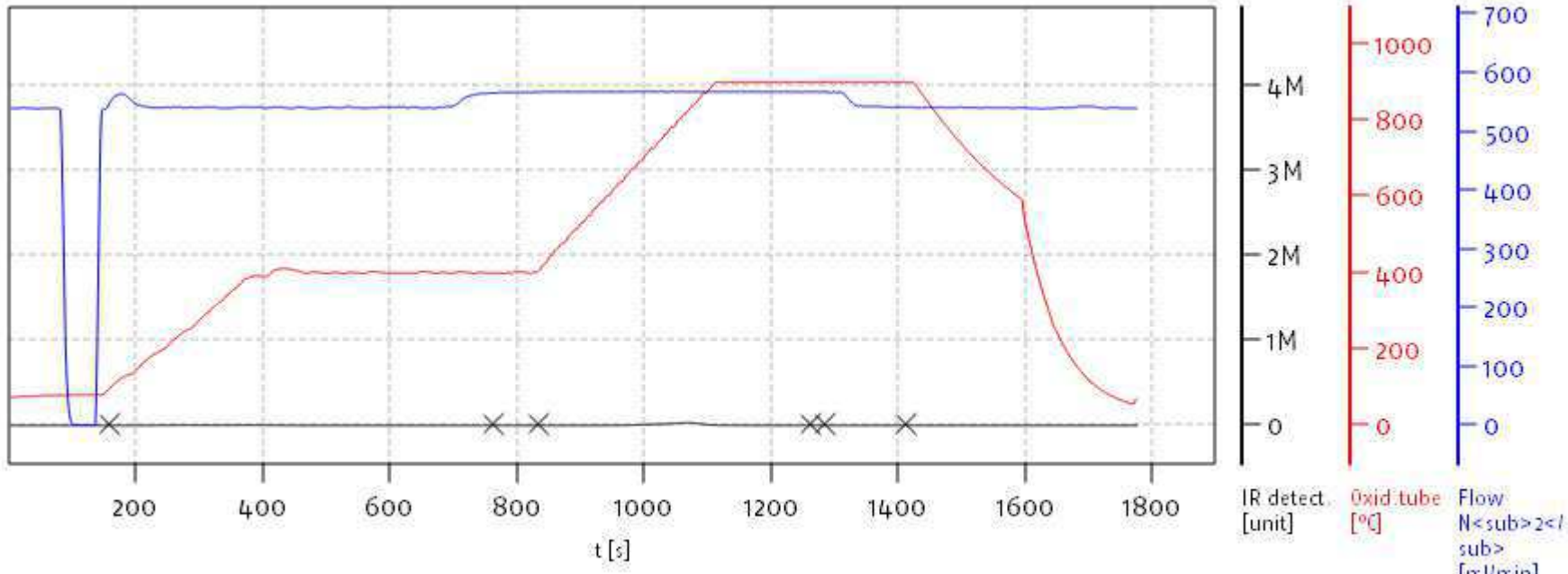
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
7	7	SEQ-CAL5	200.00	0.0148	1.00	CARBON	4/26/2022 2:30 PM	0.021	0.045	0.066	bl,C2u	20 951	92 945	236	1.0000	0.5975



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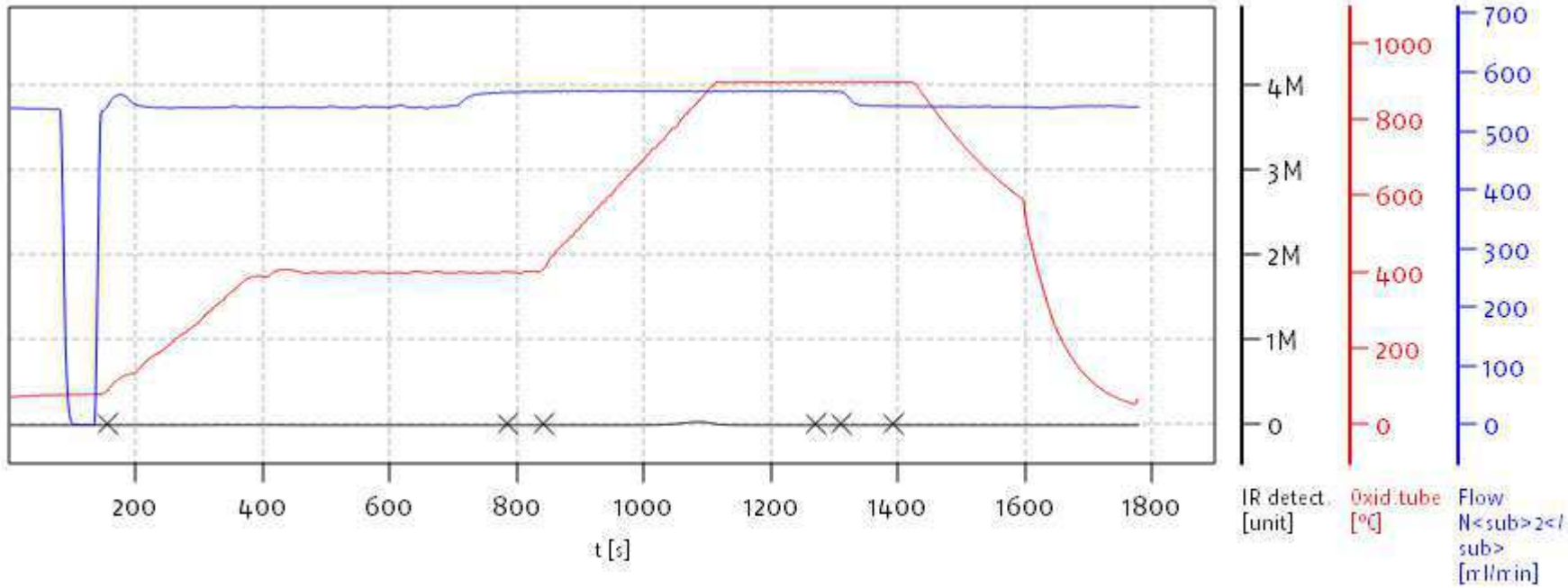
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
8	8	SEQ-CAL6	200.00	0.0196	1.00	CARBON	4/26/2022 3:00 PM	0.012	0.061	0.073	bl,C2u	10 118	82 297	59	1.0000	0.9144



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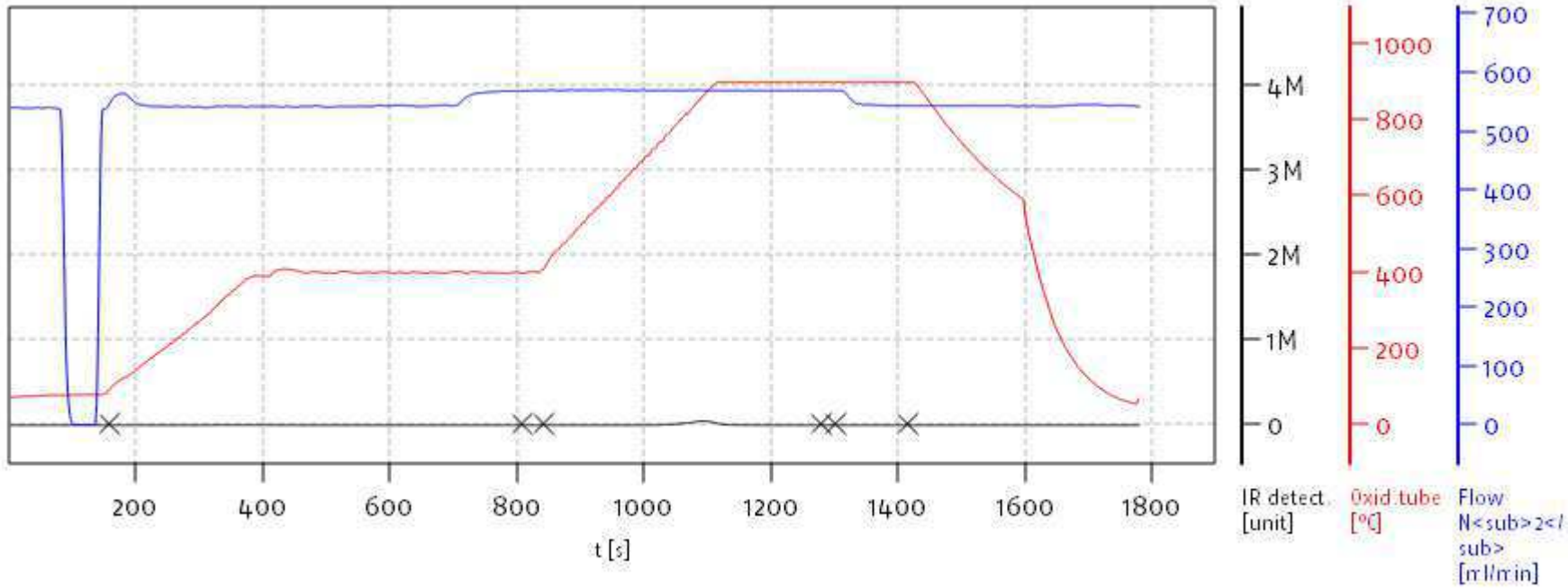
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
9	9	SEQ-CAL7	200.00	0.0247	1.00	CARBON	4/26/2022 3:30 PM	0.013	0.075	0.088	bl,C2u	10 555	101 530	292	1.0000	0.9173



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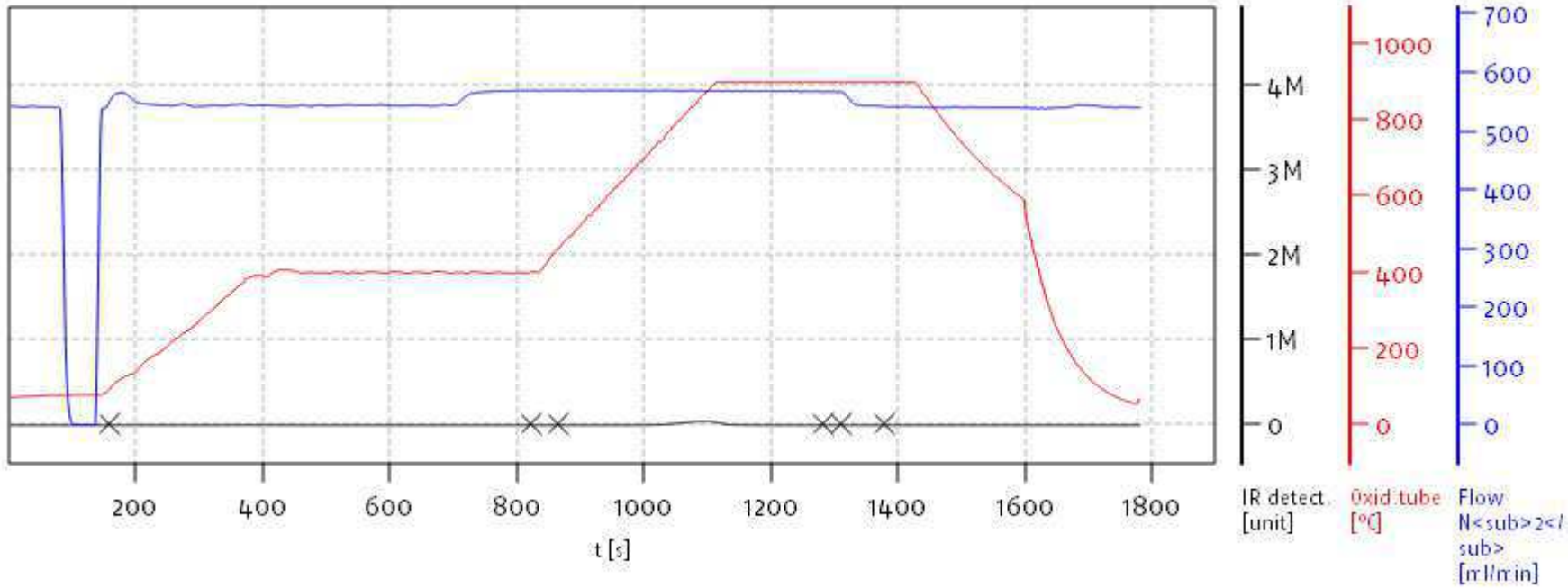
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
10	10	SEQ-CAL8	200.00	0.0298	1.00	CARBON	4/26/2022 4:00 PM	0.009	0.091	0.100	bl,C1u,C2u	6 668	120 822	116	1.0000	0.9312



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Access: soliTOC superuser

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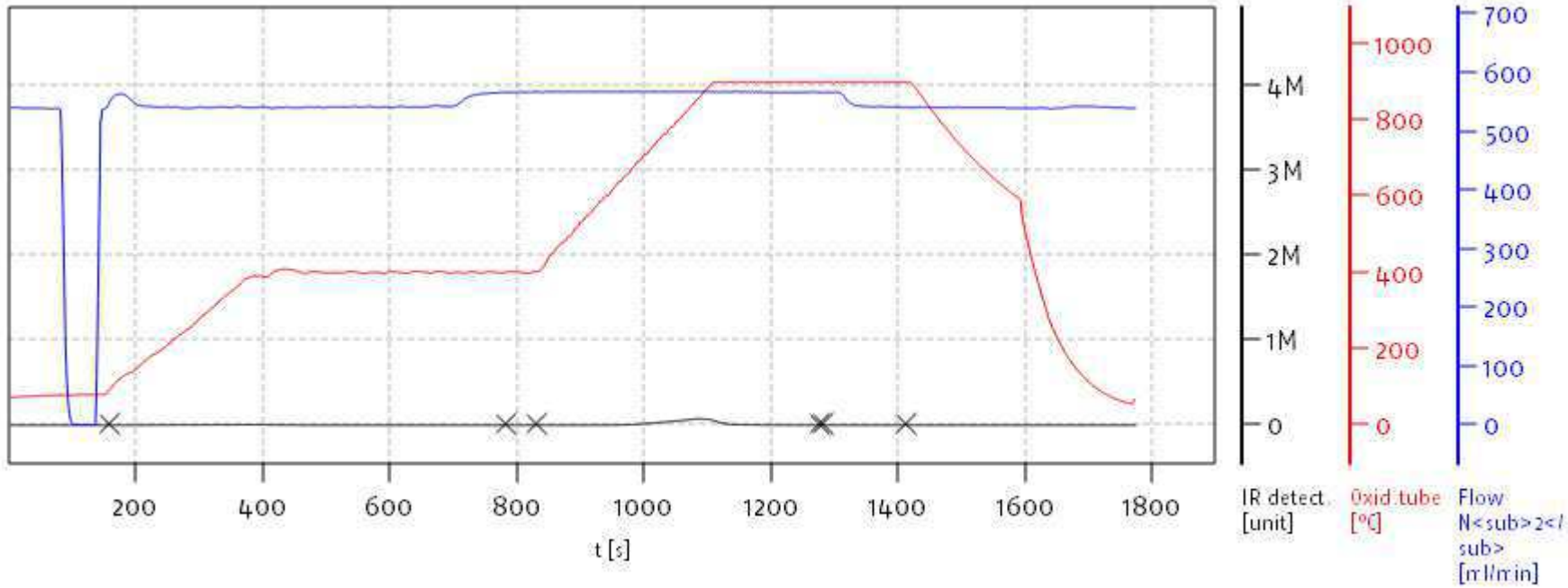
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
11	11	SEQ-CAL9	200.00	0.0402	1.00	CARBON	4/26/2022 4:30 PM	0.031	0.120	0.151	bl,C2u	32 999	260 234	1 044	1.0000	0.5792



Name:

Access: soliTOC superuser

Date: Wed Apr 27 11:07:12 2022

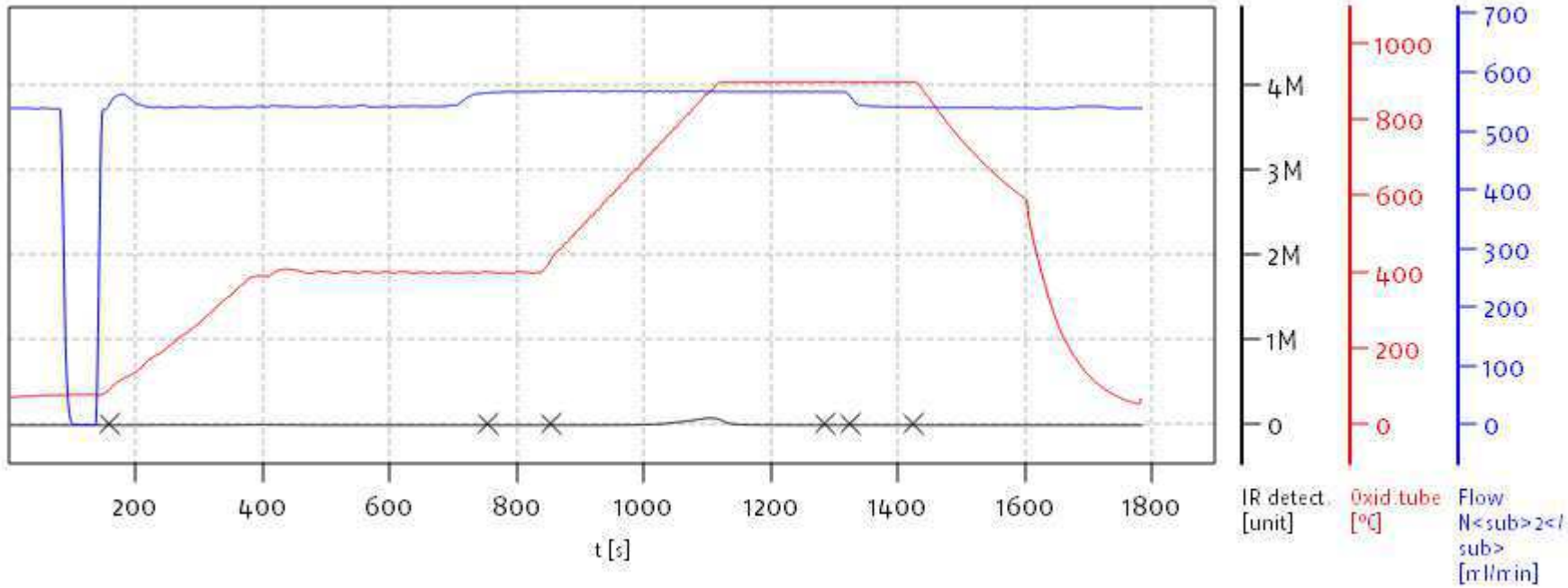
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: 4/27/2022 11:05 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
12	12	SEQ-CALA	200.00	0.0500	1.00	CARBON	4/26/2022 5:00 PM	0.021	0.151	0.172	bl,C2u	20 147	233 779	913	1.0000	0.8099



Name:

Access: soliTOC superuser

Date: Wed Apr 27 11:07:12 2022

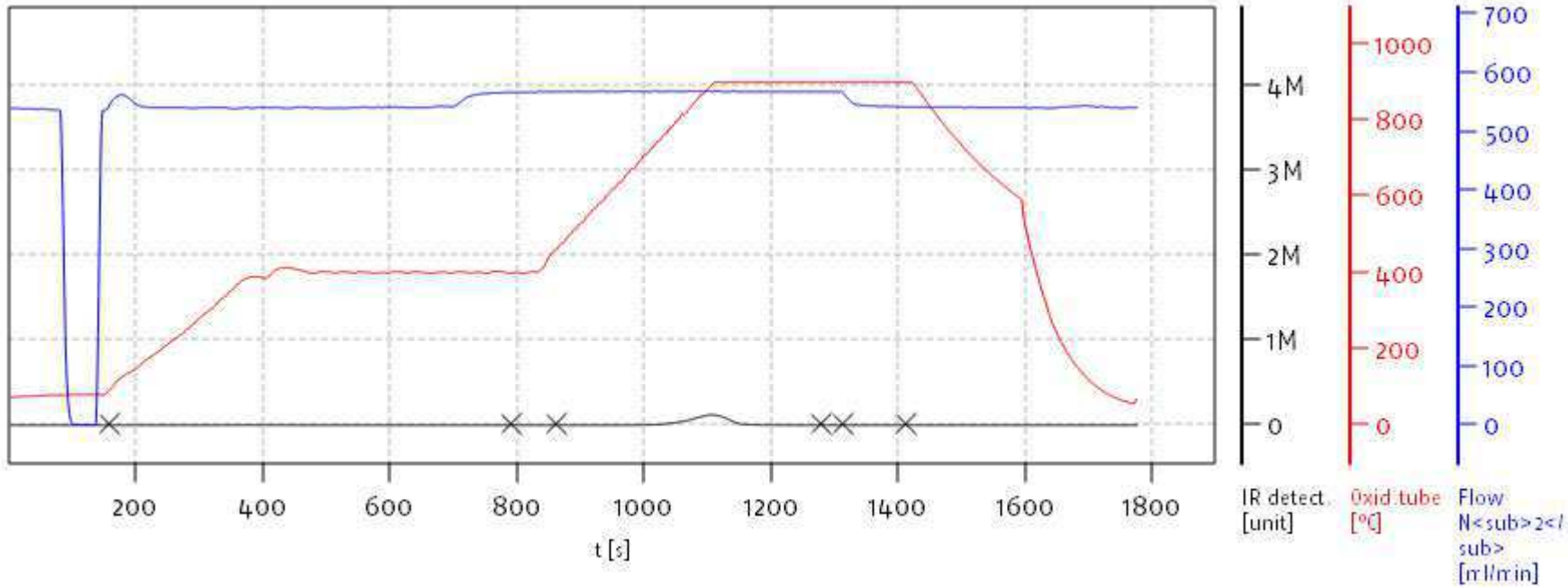
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: 4/27/2022 11:05 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
13	13	SEQ-CALB	200.00	0.0040	1.00	CARBON	4/26/2022 5:30 PM	0.010	0.258	0.268	bl,C1u,C2u	7 070	323 151	663	1.0000	1.0048



Name:

Access: soliTOC superuser

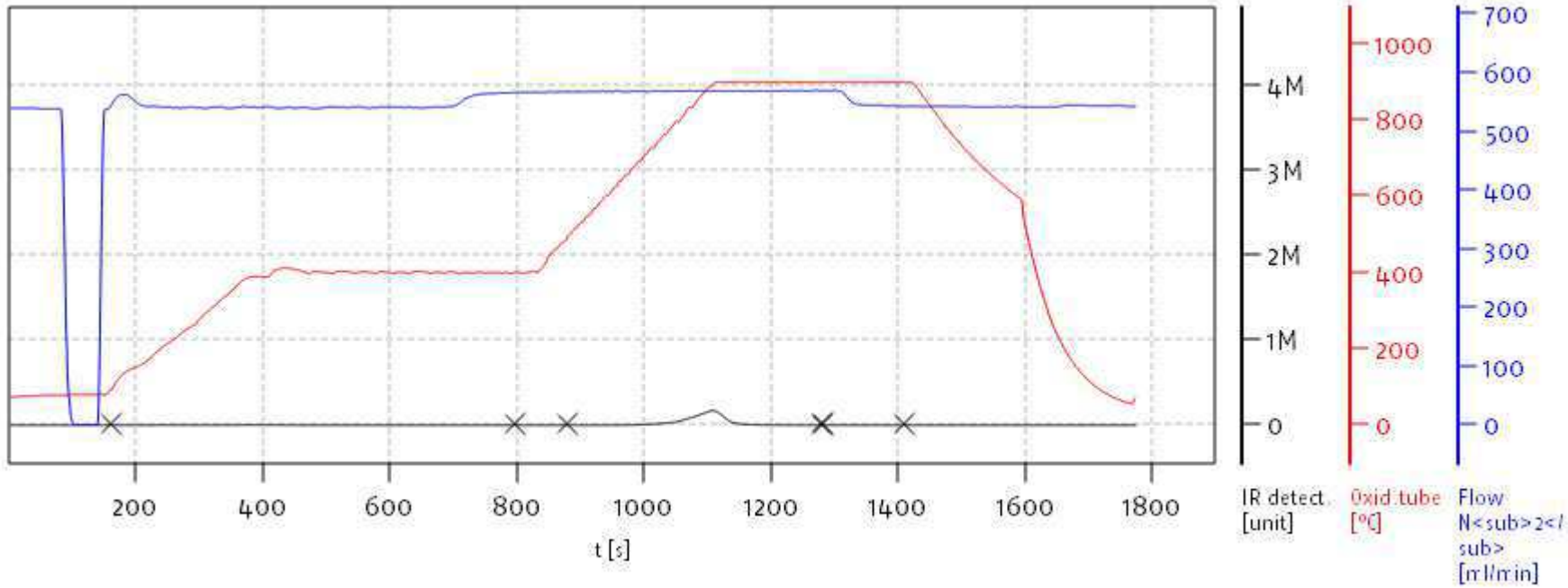
Date: Wed Apr 27 11:07:12 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
14	14	SEQ-CALC	200.00	0.0048	1.00	CARBON	4/26/2022 6:00 PM	0.015	0.324	0.339	bl,C2u	13 785	411 879	575	1.0000	0.9917



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Serial No: 0300.181017
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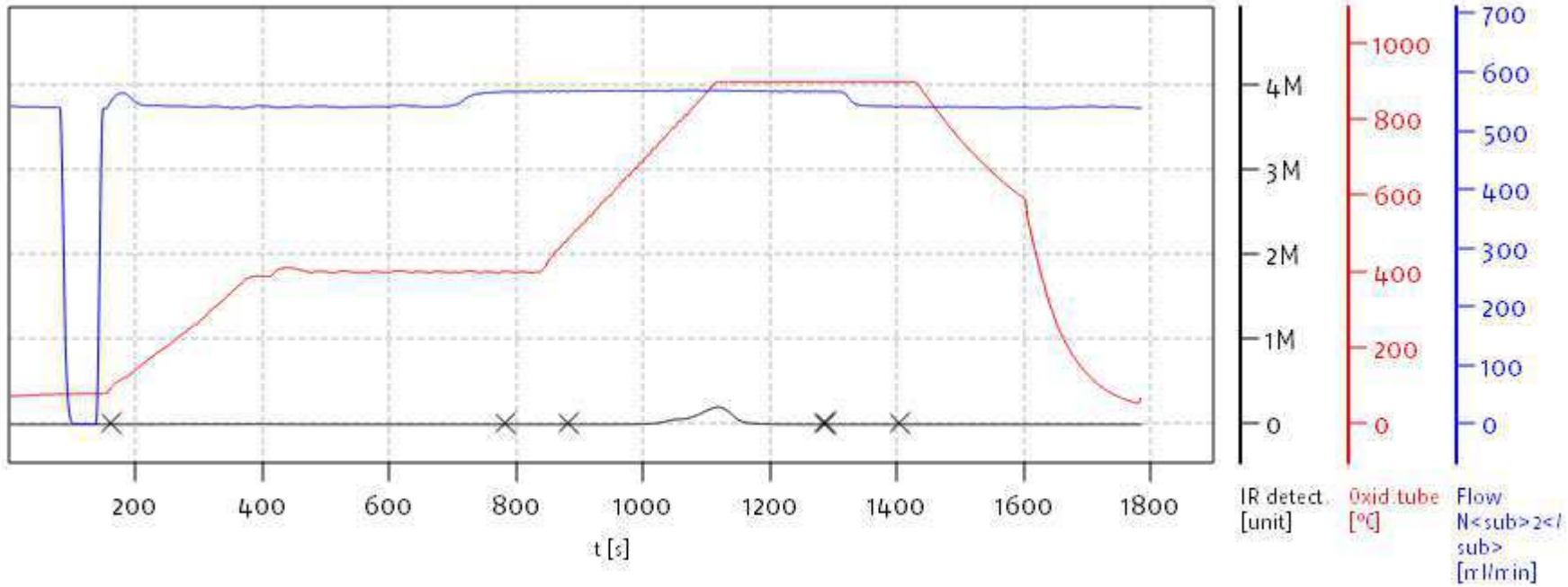
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
15	15	SEQ-CALD	200.00	0.0069	1.00	CARBON	4/26/2022 6:30 PM	0.019	0.444	0.463	bl,C2u	18 465	553 540	263	1.0000	1.0129



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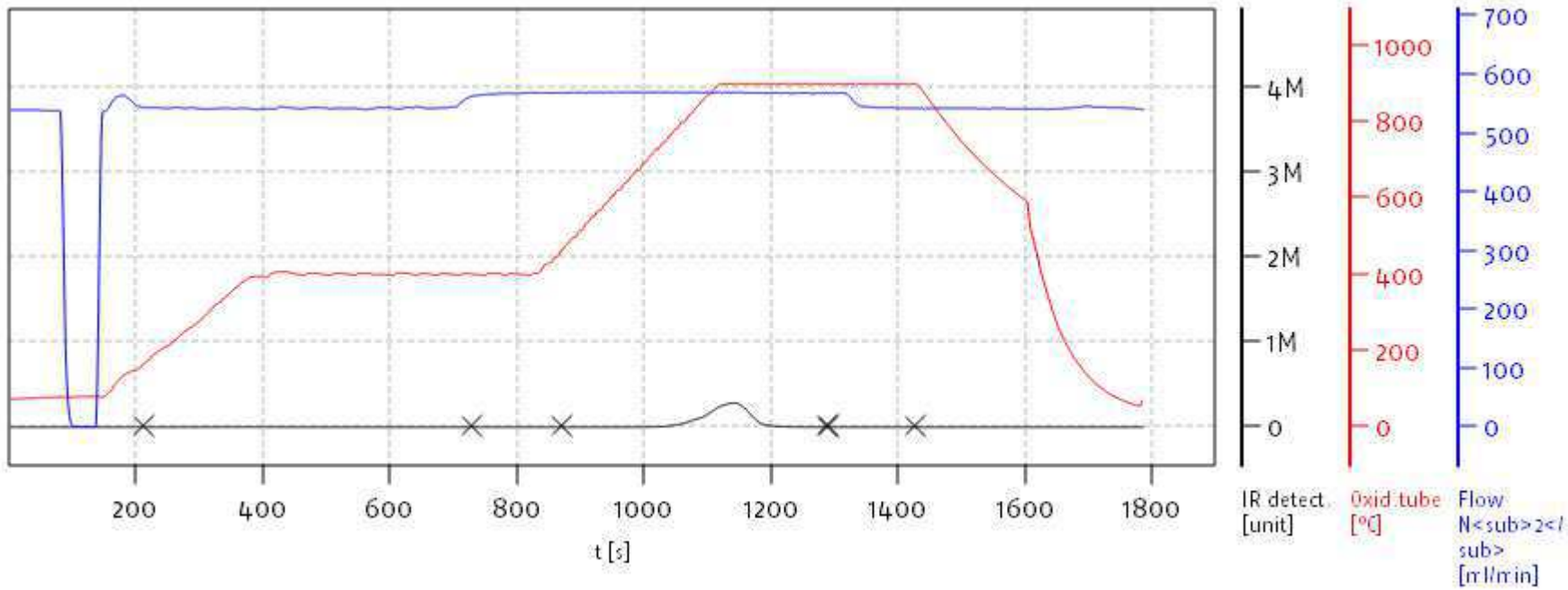
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
16	16	SEQ-CALE	200.00	0.0101	1.00	CARBON	4/26/2022 7:00 PM	0.009	0.600	0.609	bl,C1u,C2u	5 485	839 878	536	1.0000	0.9036



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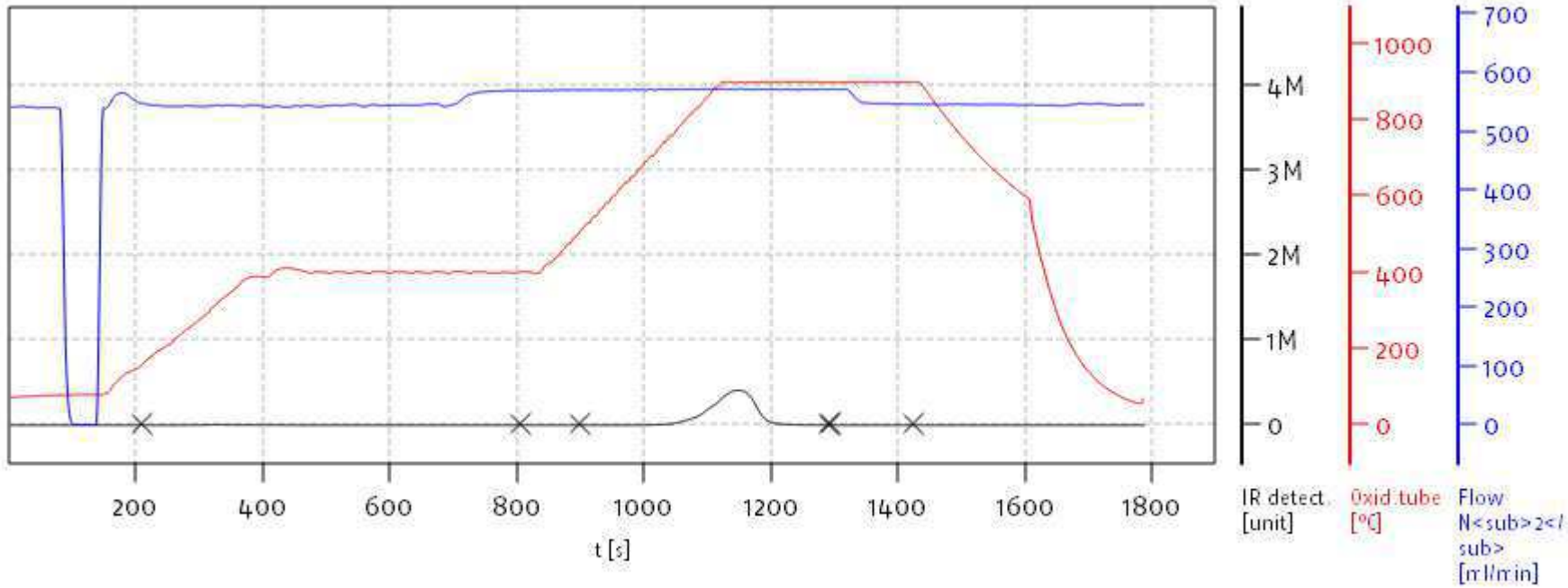
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
17	17	SEQ-CALF	200.00	0.0149	1.00	CARBON	4/26/2022 7:31 PM	0.019	0.906	0.925	bl,C2u	17 439	1 236 200	814	1.0000	0.9279



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soliTOC V2.0.2 (31015f9) 2018-11-19
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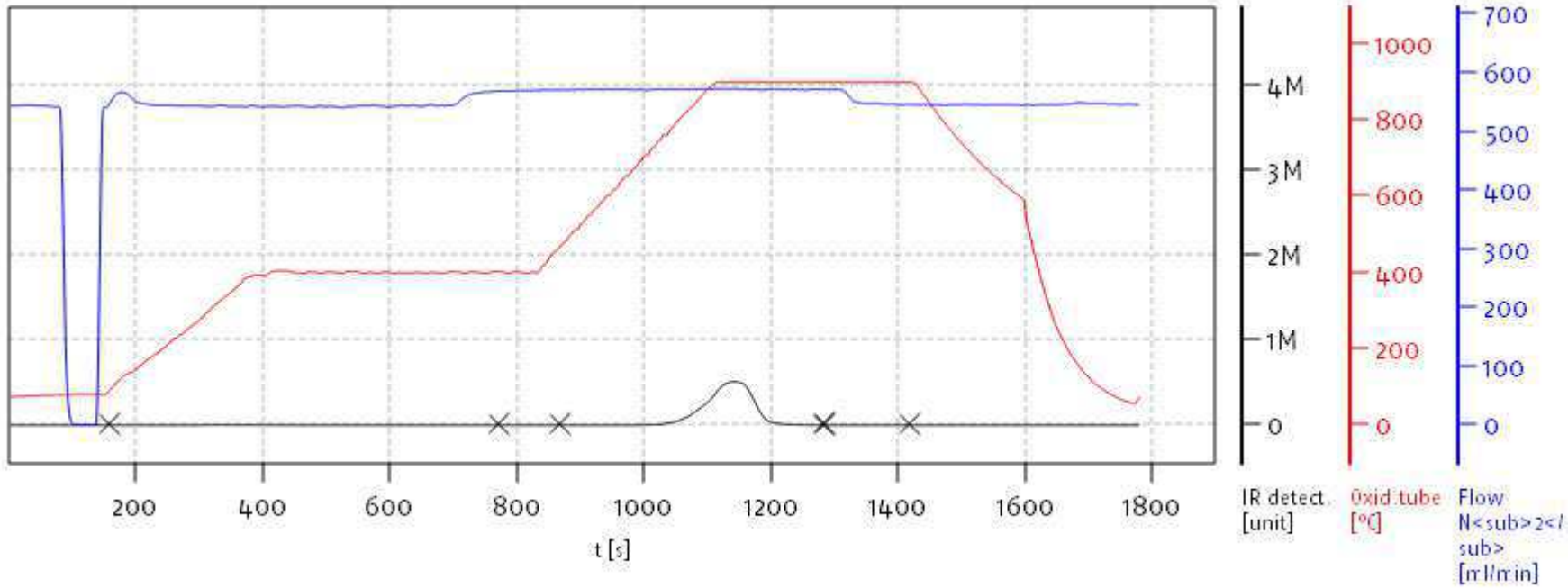
elementar
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: 4/27/2022 11:05 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
18	18	SEQ-CALG	200.00	0.0198	1.00	CARBON	4/26/2022 8:01 PM	0.015	1.206	1.221	bl,C2u	12 557	1 639 190	1 295	1.0000	0.9320



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Mode CCC

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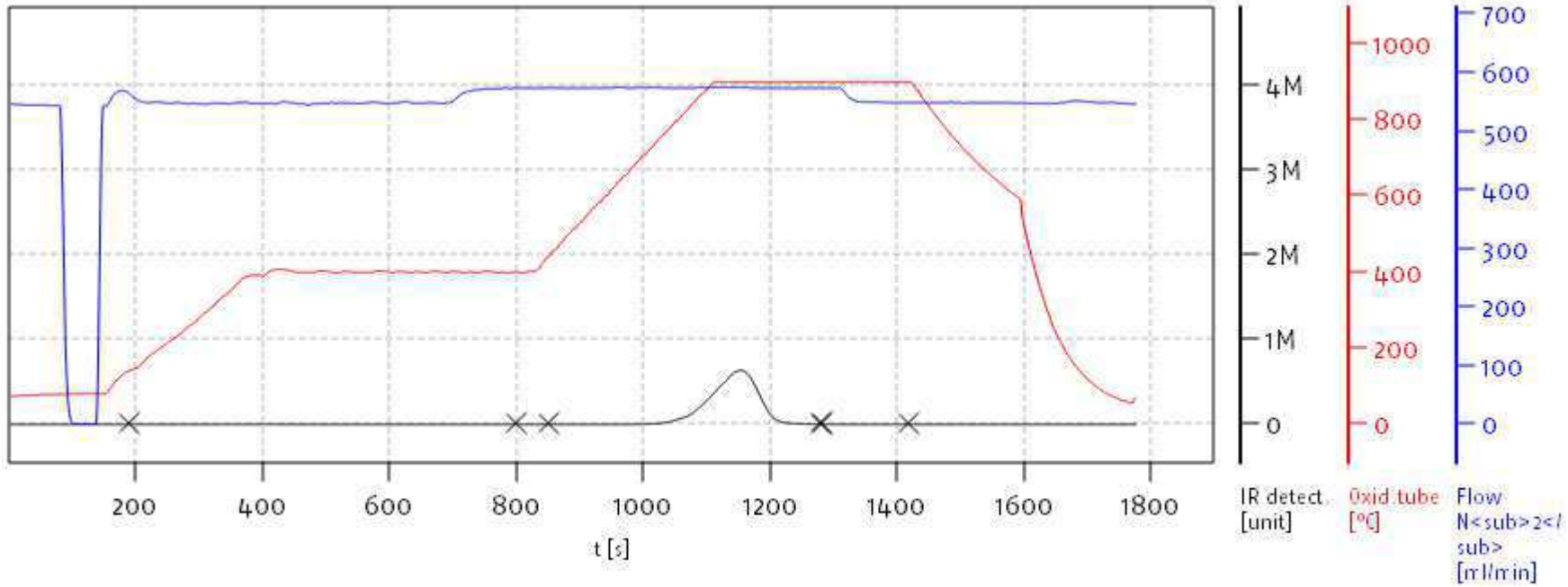
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
19	19	SEQ-CALH	200.00	0.0250	1.00	CARBON	4/26/2022 8:31 PM	0.009	1.524	1.533	bl,C1u,C2u	4 029	2 063 890	2 225	1.0000	0.9357



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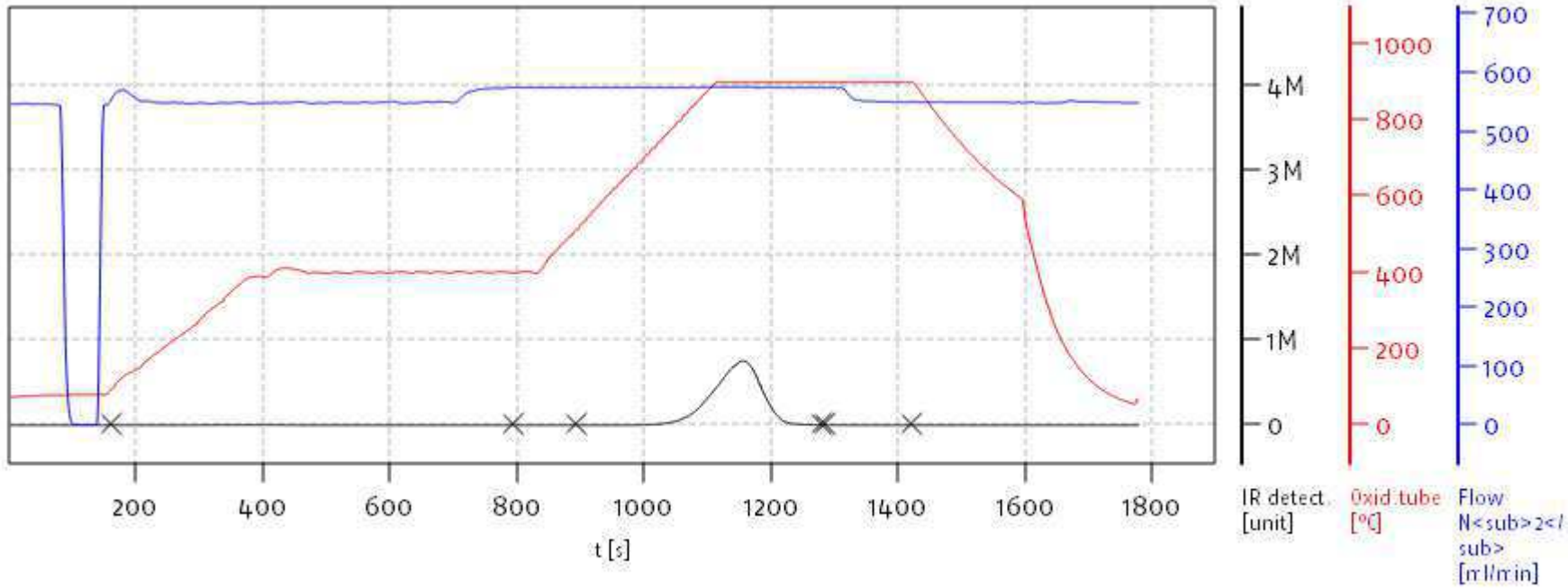
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
20	20	SEQ-CALI	200.00	0.0303	1.00	CARBON	4/26/2022 9:01 PM	0.017	1.800	1.817	bl,C2u	13 926	2 495 900	2 903	1.0000	0.9140



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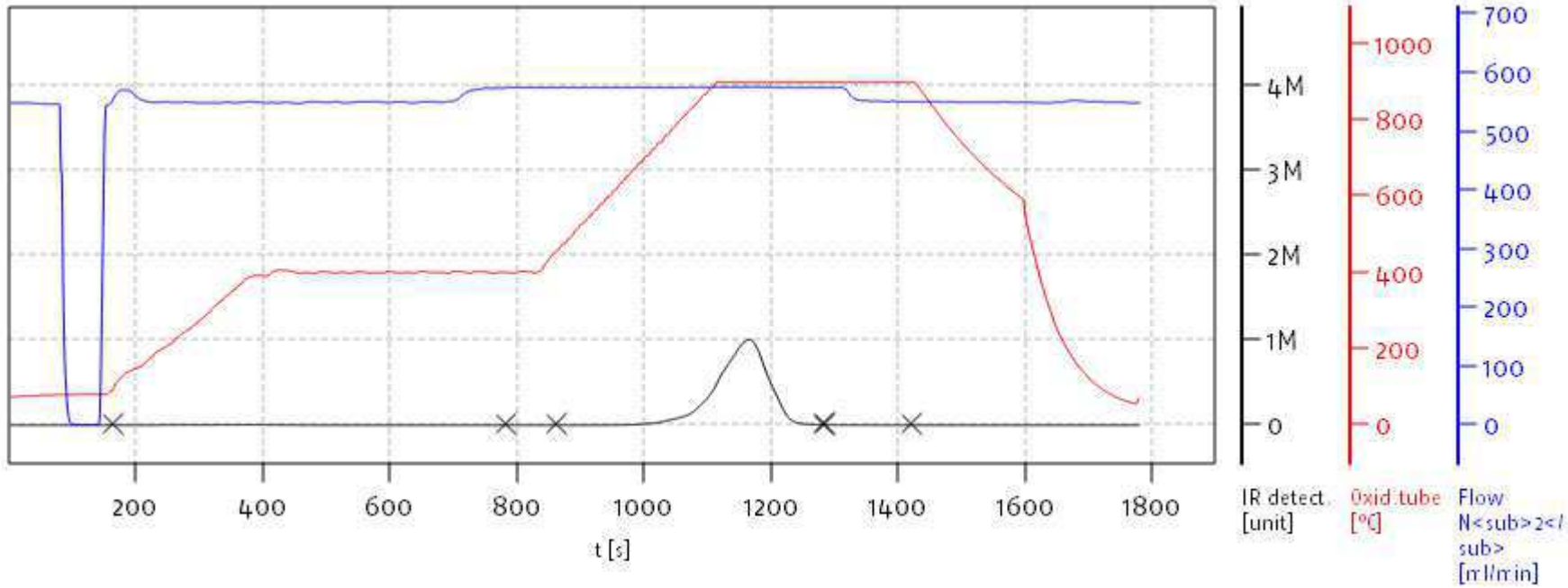
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
21	21	SEQ-CALJ	200.00	0.0415	1.00	CARBON	4/26/2022 9:31 PM	0.031	2.400	2.431	bl,C2u	28 786	3 482 530	5 351	1.0000	0.8737



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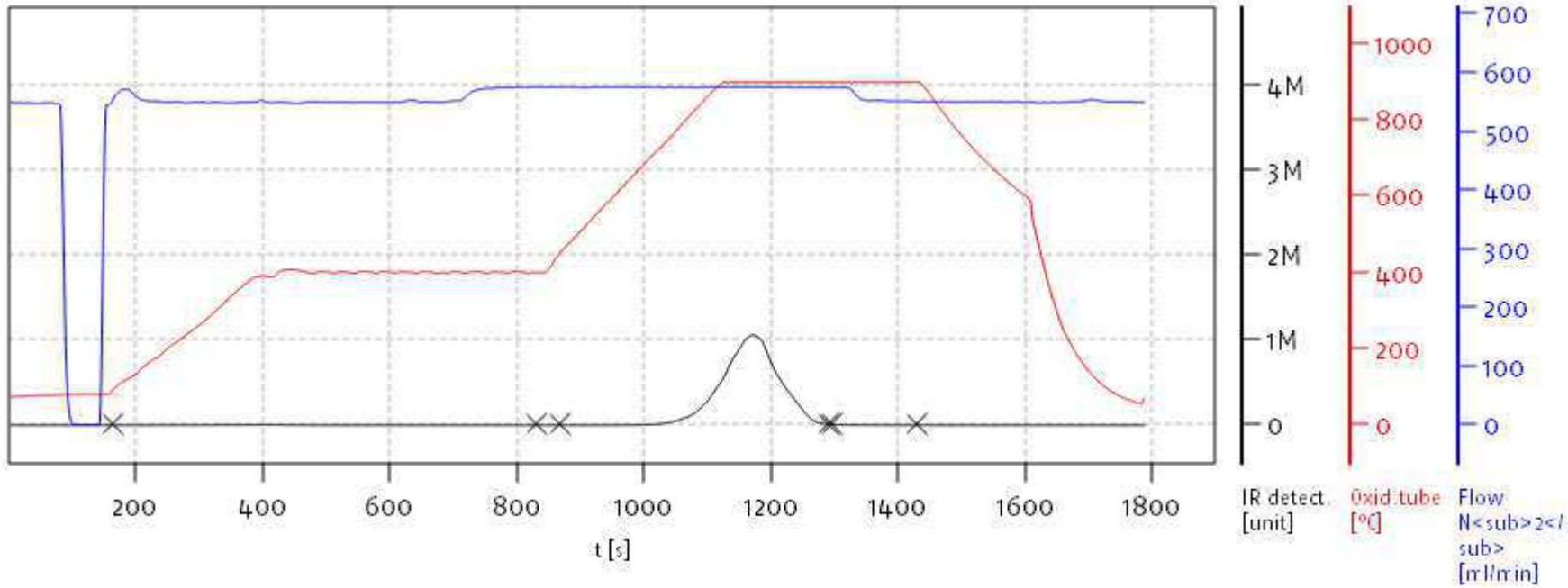
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
22	22	SEQ-CALK	200.00	0.0497	1.00	CARBON	4/26/2022 10:01 PM	0.031	3.012	3.043	bl	23 732	4 105 830	9 736	1.0000	0.9301



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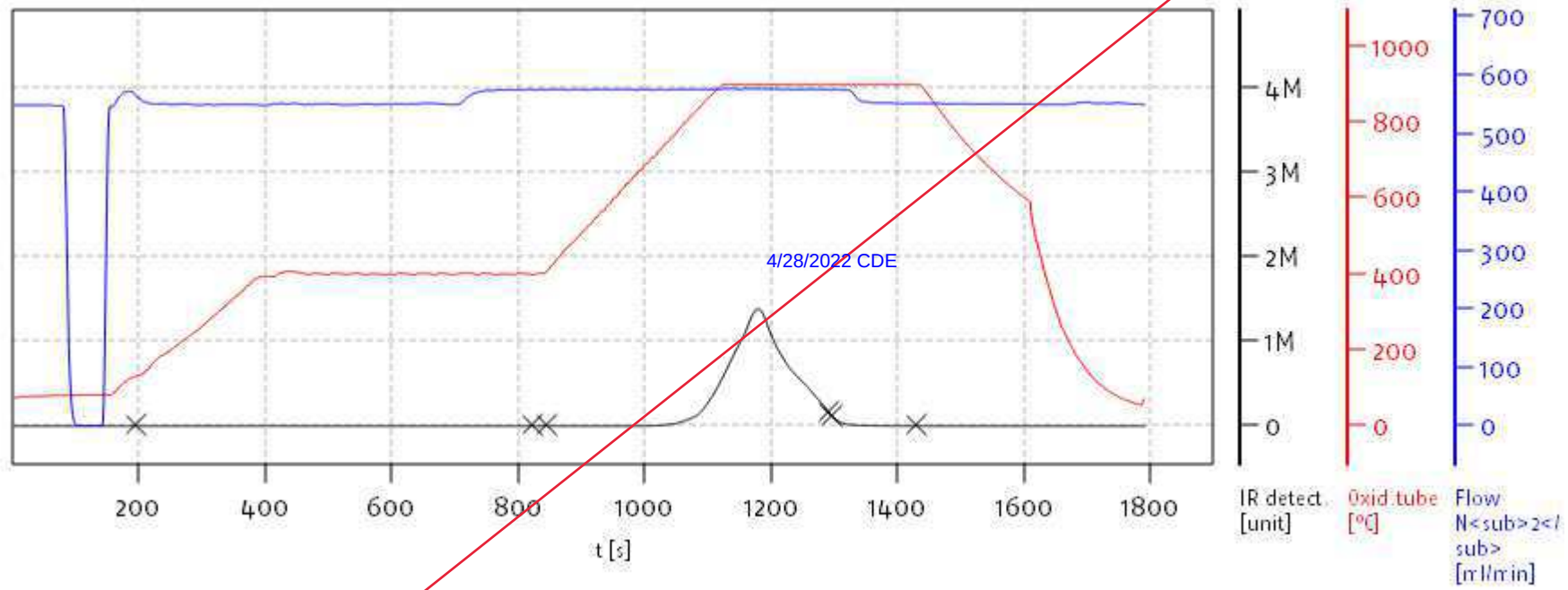
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
23	23	SEQ-CALL	200.00	0.0698	1.00	CARBON	4/26/2022 10:31 PM	0.005	3.805	3.810	bl,C1u	3 605	5 648 620	71 970	1.0000	0.9443



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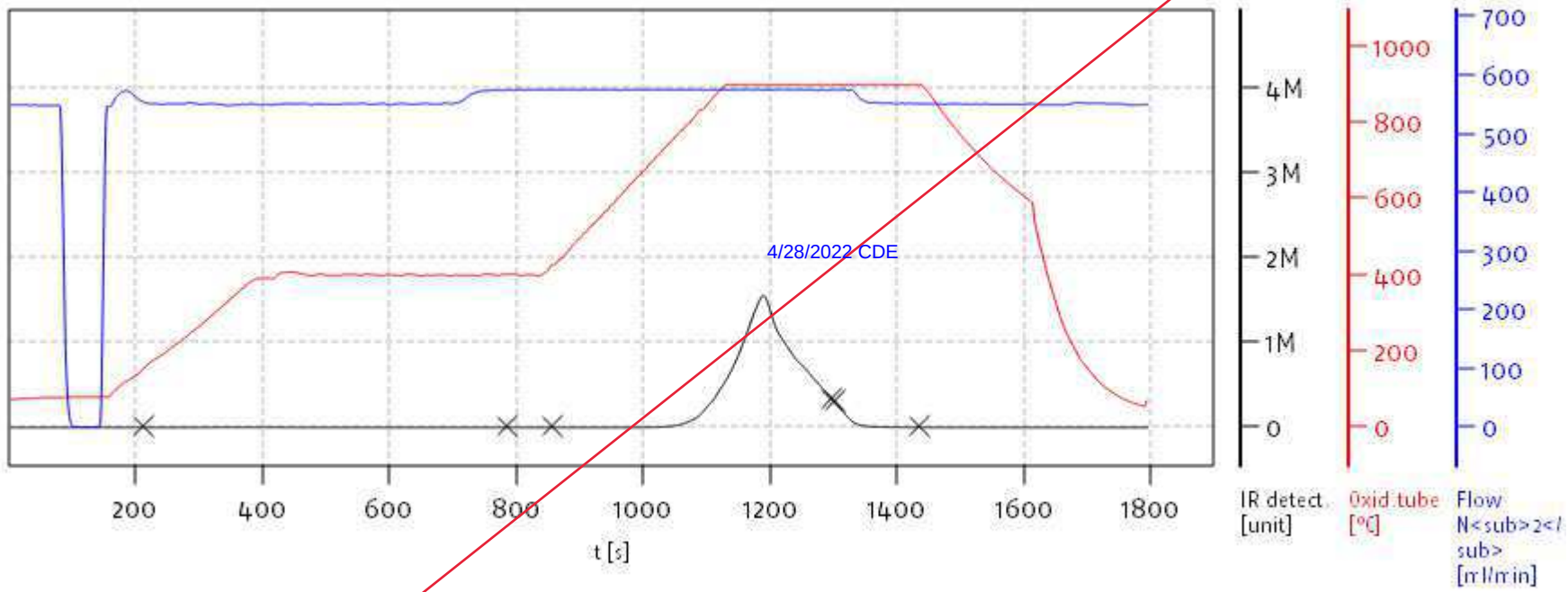
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
24	24	SEQ-CALM	200.00	0.0803	1.00	CARBON	4/26/2022 11:02 PM	0.010	4.637	4.647	bl	10 023	6 397 530	228 171	1.0000	0.9539



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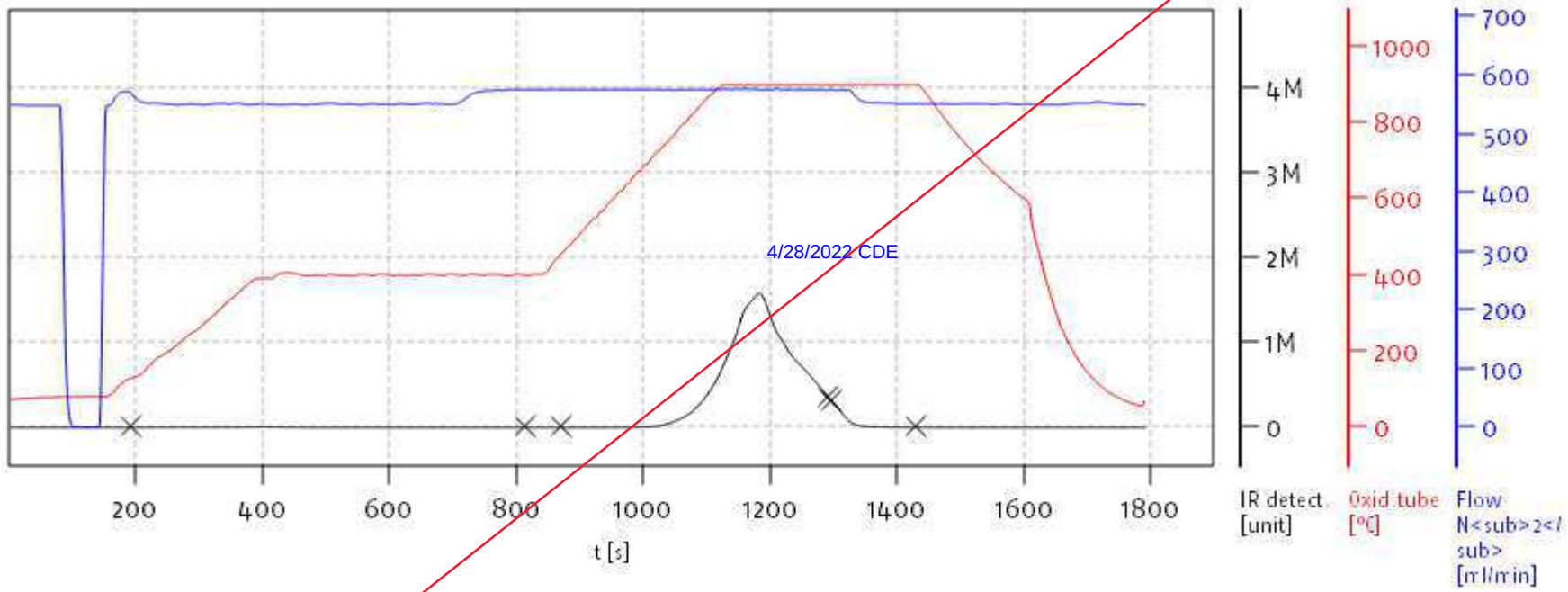
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
25	25	SEQ-CALN	200.00	0.0901	1.00	CARBON	4/26/2022 11:32 PM	0.020	5.219	5.239	bl	23 354	7 186 580	239 986	1.0000	0.9540



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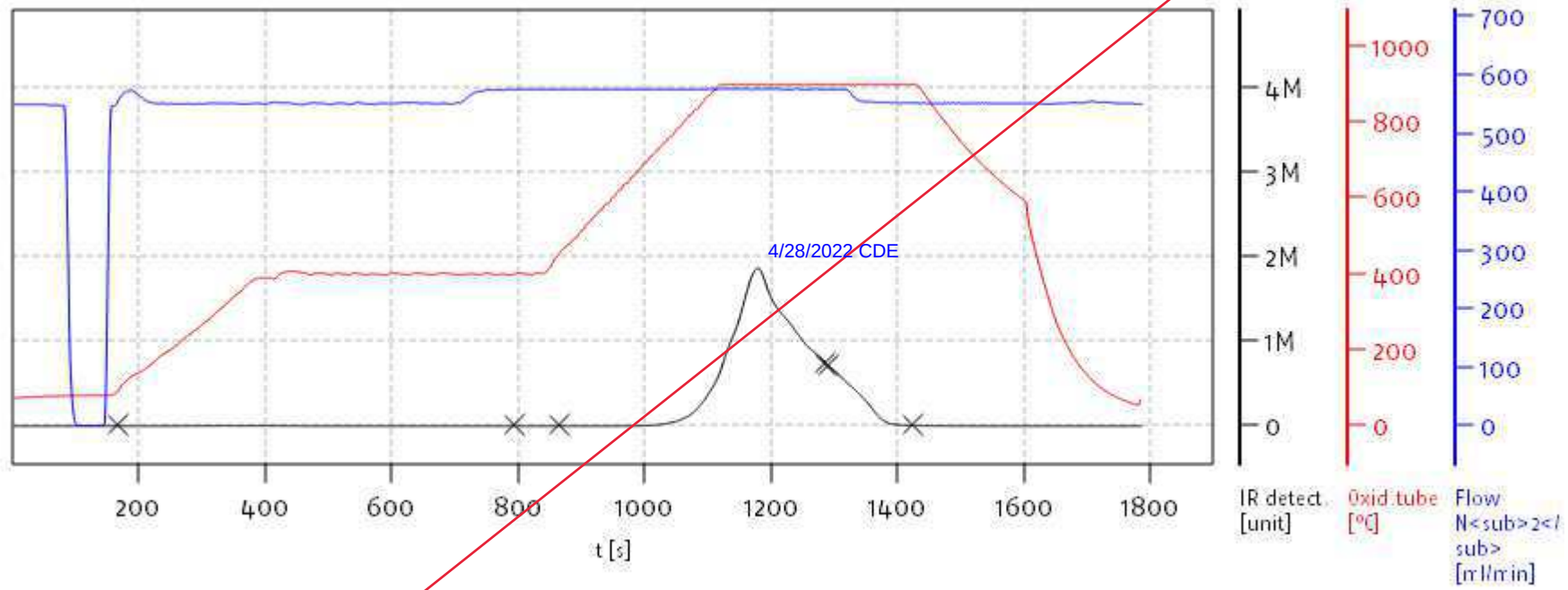
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
26	26	SEQ-CALO	200.00	0.1200	1.00	CARBON	4/27/2022 12:02 AM	0.019	7.915	7.934	bl,C3o	21 248	8 544 610	1 334 580	1.0000	1.0714



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Soli TOC Cube, Carbon
Balance: BAL3
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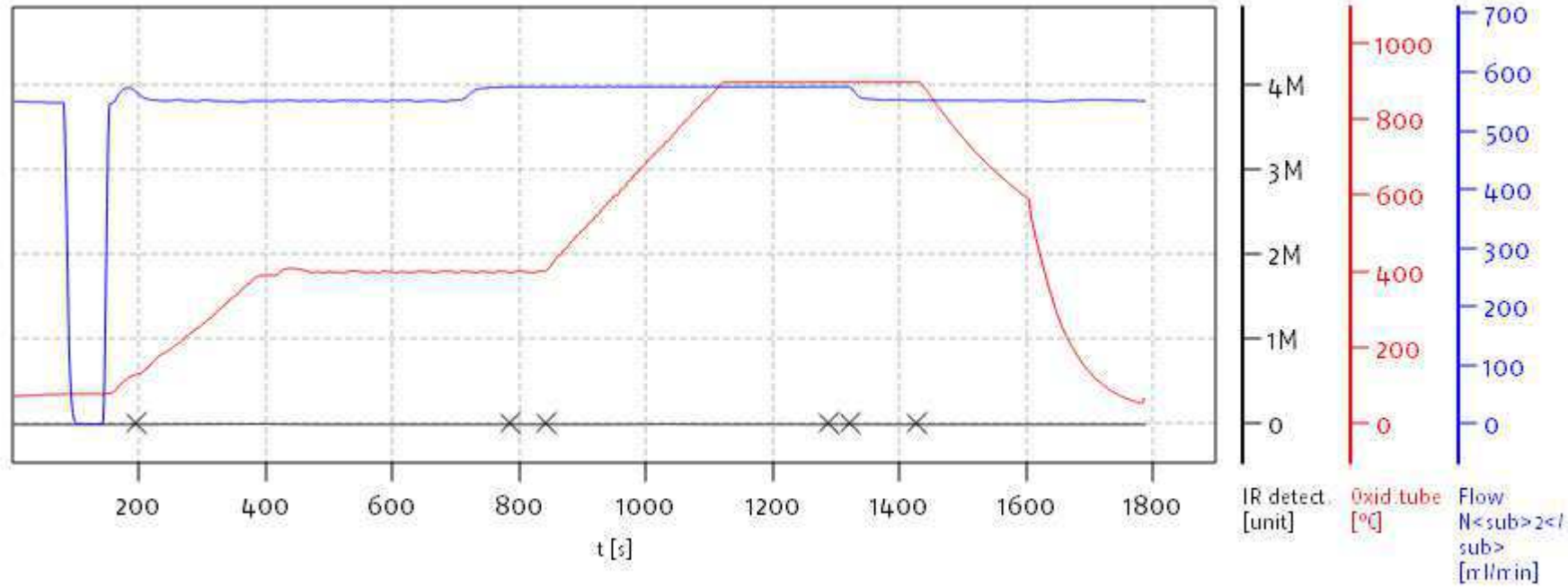
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
27	27	BLANK	1.00		1.00	CARBON	4/27/2022 12:32 AM	0.000	0.000	0.000	bl	29 766	19 596	1 205	1.0000	0.9007



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Balance: BAL3
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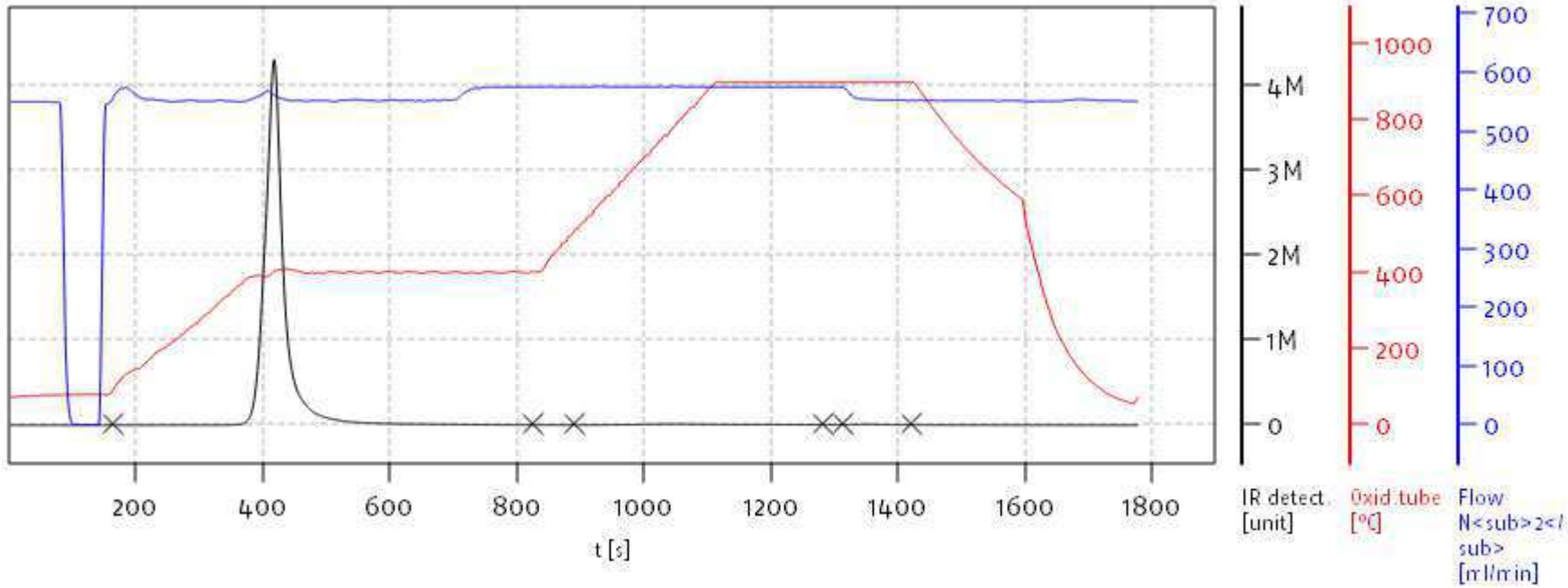
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
28	28	Dfactor	19.00		1.00	CARBON	4/27/2022 1:02 AM	44.678	0.893	45.571	bl	5 588 680	104 999	25 384	0.9581	1.0000



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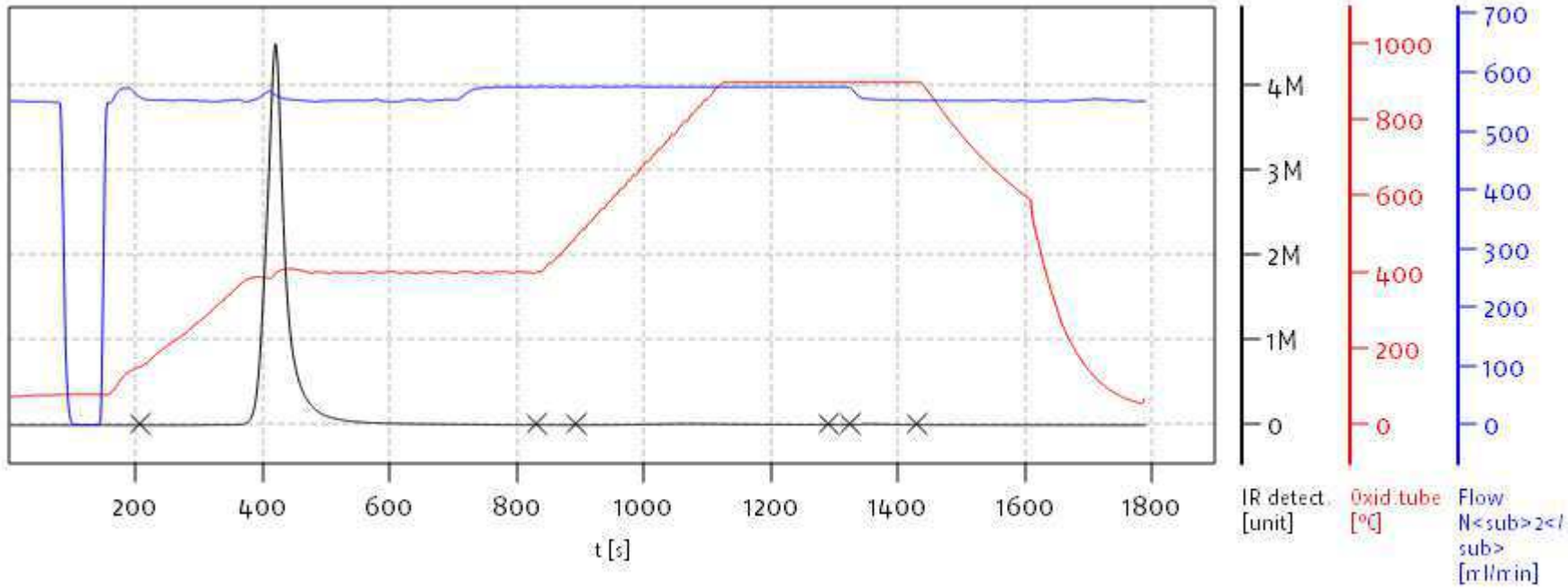
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
29	29	Dfactor	20.80		1.00	CARBON	4/27/2022 1:32 AM	44.694	0.937	45.631	bl	6 076 750	120 961	30 224	0.9647	1.0000



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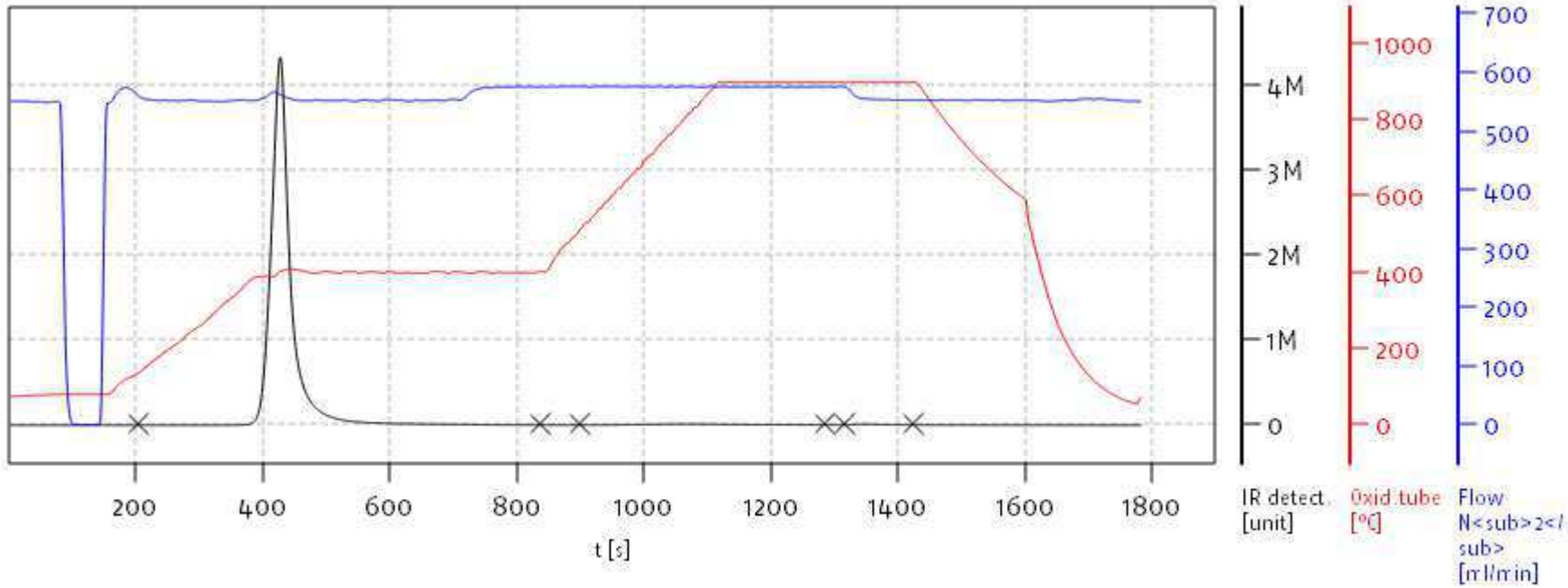
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
30	30	SEQ-ICV1	19.40		1.00	CARBON	4/27/2022 2:03 AM	44.964	0.742	45.706	bl	5 722 450	98 735	27 054	0.9614	0.9007



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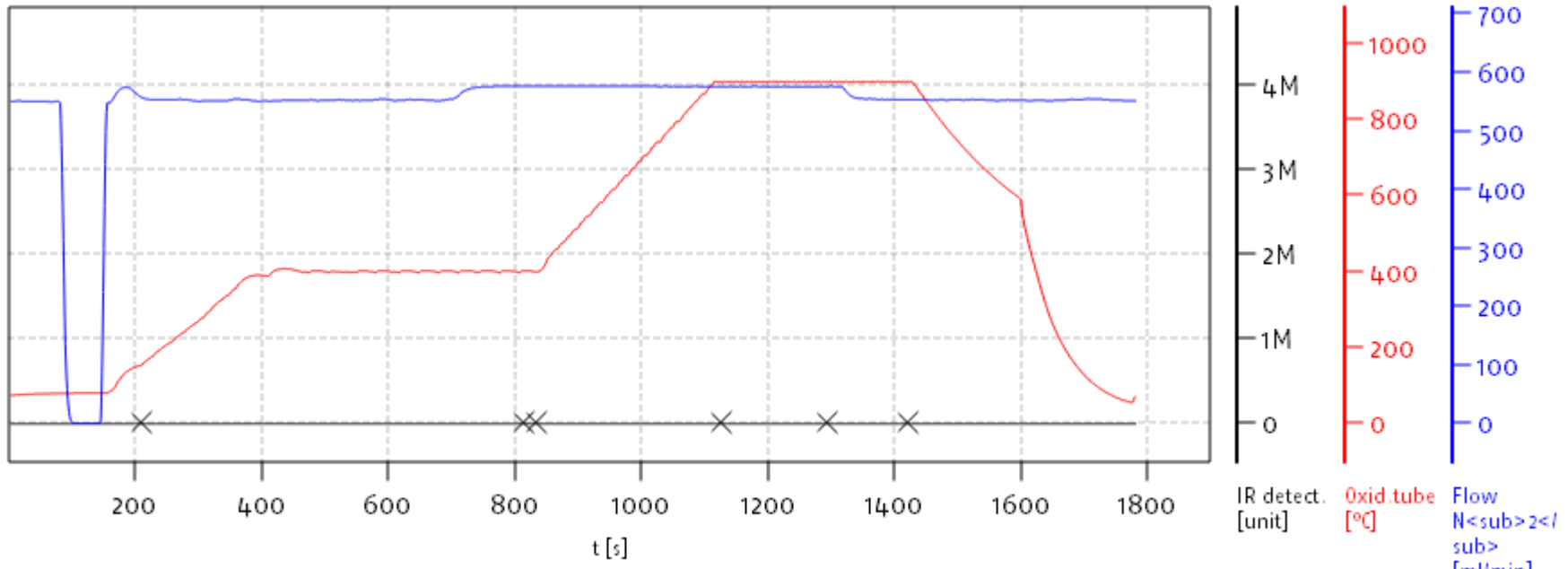
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
31	31	SEQ-ICB1	501.10		1.00	CARBON	4/27/2022 2:33 AM	0.002	0.001	0.003	bl,C1u,C3u,C2u	2 158	225	165	0.9614	0.9007



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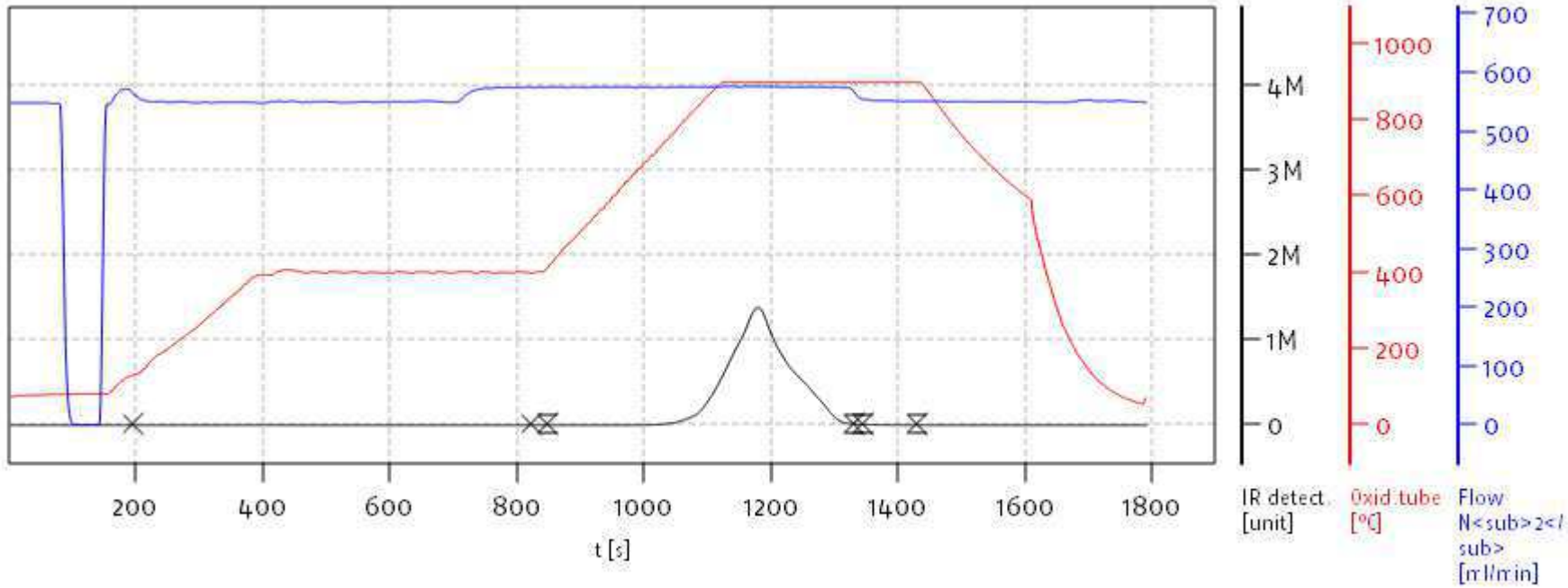
Document: 042622 DOE CALIBRATION from: 4/27/2022 11:05 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
23	23	SEQ-CALL	200.00	0.0698	1.00	CARBON	4/27/2022 11:08 AM	0.005	3.917	3.922	bl,C1u	3 605	**5 260 365**	**0**	1.0000	0.9443



Name:

Access: soliTOC superuser

Date: Wed Apr 27 11:10:16 2022

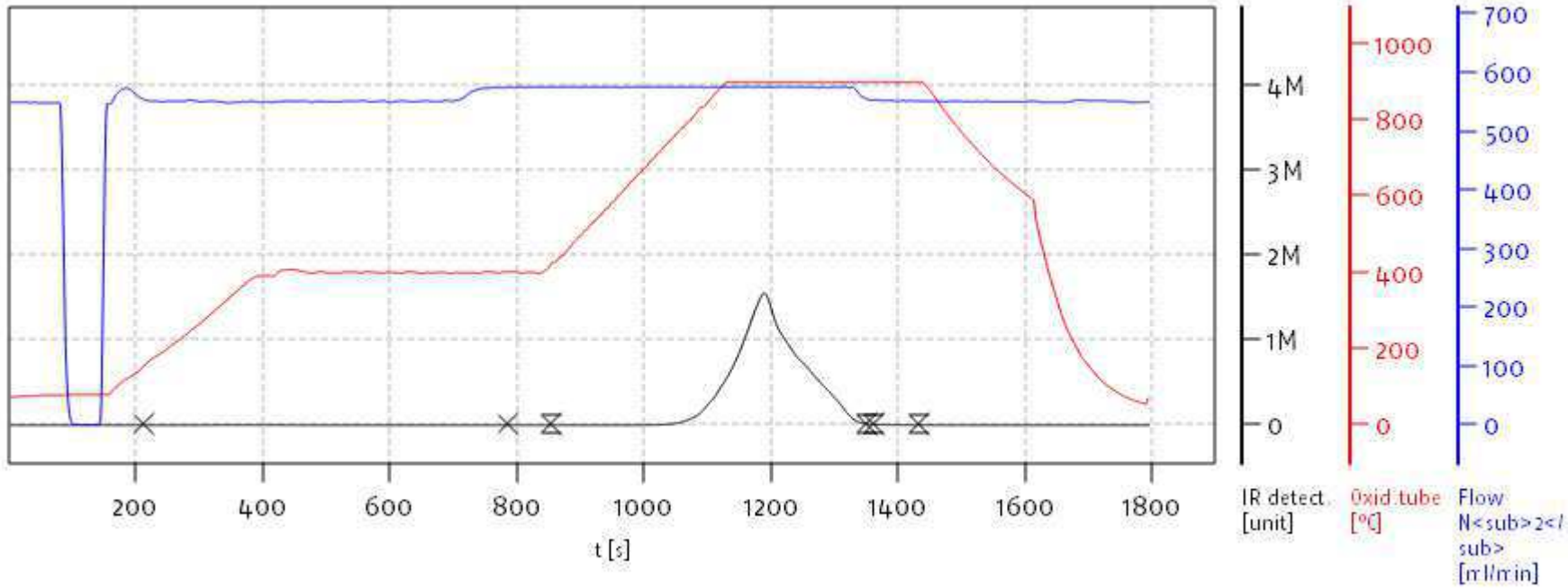
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
24	24	SEQ-CALM	200.00	0.0803	1.00	CARBON	4/27/2022 11:08 AM	0.010	4.637	4.647	bl	10 023	**6 164 833**	**0**	1.0000	0.9539



Name:

Access: soliTOC superuser

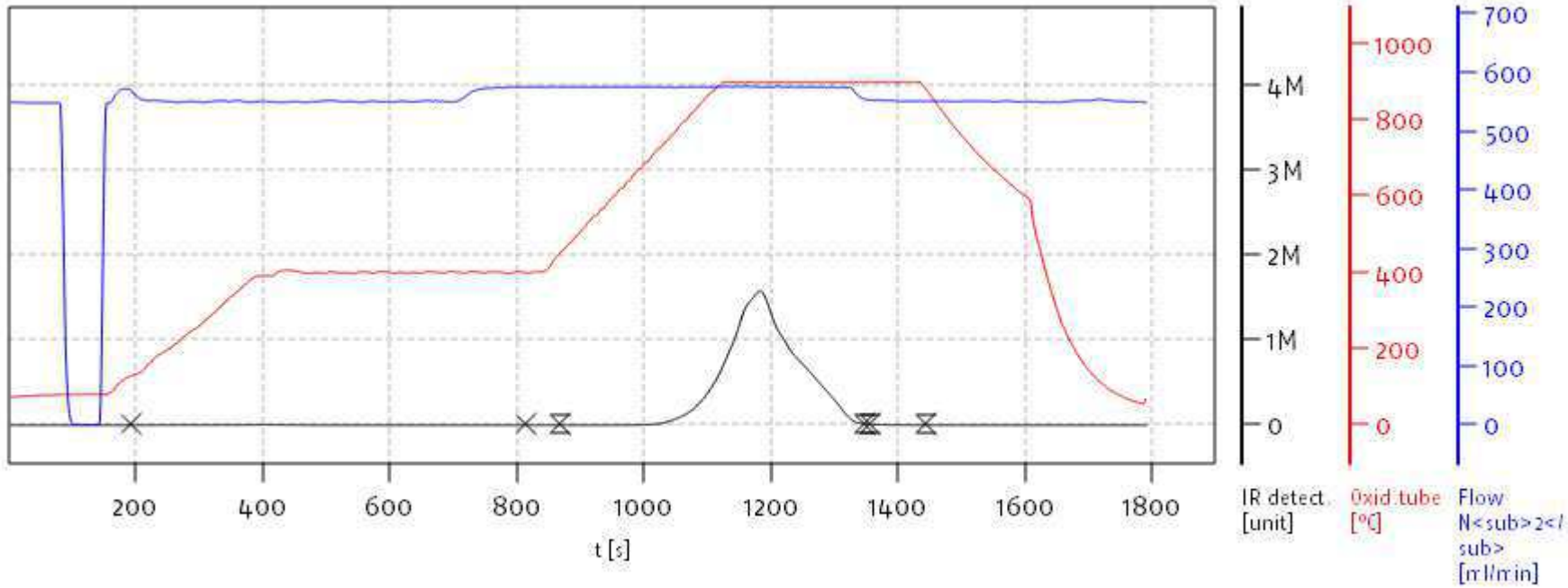
Date: Wed Apr 27 11:10:16 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Document: 042622 DOE CALIBRATION from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
25	25	SEQ-CALN	200.00	0.0901	1.00	CARBON	4/27/2022 11:09 AM	0.020	5.219	5.239	bl	23 354	**6 937 833**	**0**	1.0000	0.9540



Name:

Access: soliTOC superuser

Date: Wed Apr 27 11:10:16 2022

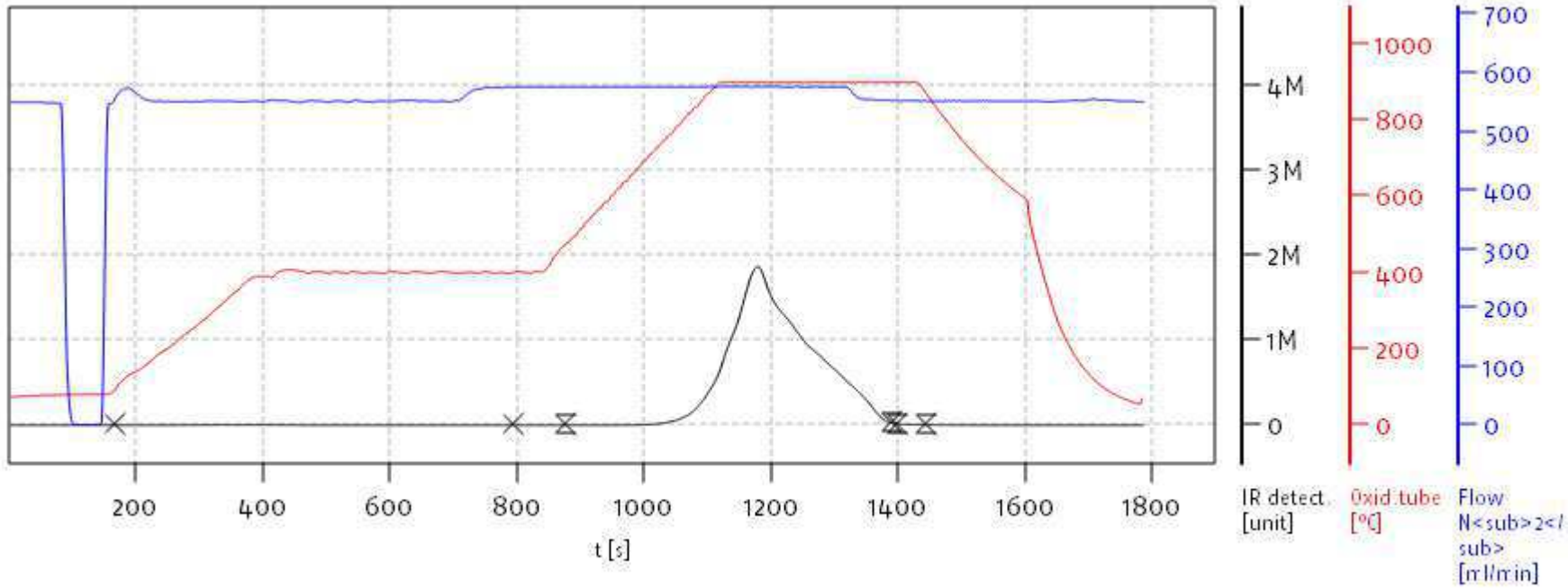
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
26	26	SEQ-CALO	200.00	0.1200	1.00	CARBON	4/27/2022 11:09 AM	0.019	7.915	7.934	bl,C3o	21 248	9 370 139	0	1.0000	1.0714



Name:

Access: soliTOC superuser

Date: Wed Apr 27 11:10:16 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

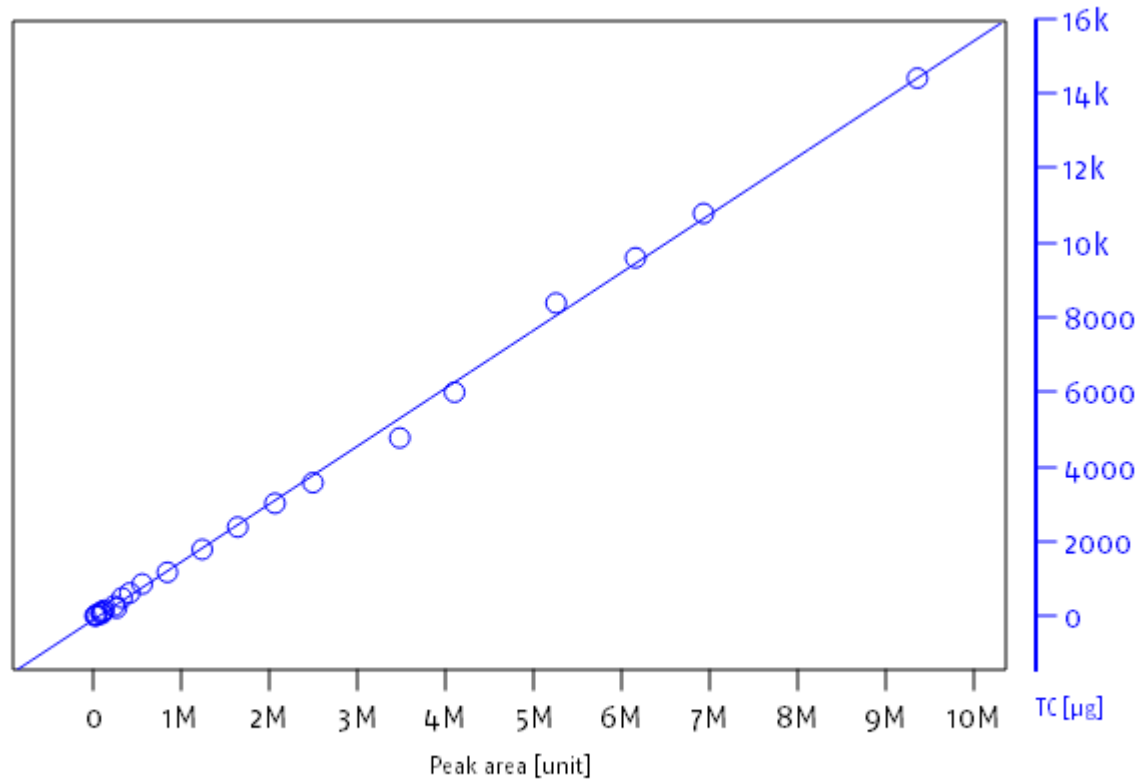
elementar
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: --.--.-- (modified)

Calibration parameters TC, Whole range

a	-4.107546e-02
b	+1.548032e-06
c	+0.000000e+00
d	+0.000000e+00
e	+0.000000e+00
r	0.998372
r_old	0.998372
Proc.-SD	166.070255 µg

Calibration graph TC, Whole range



INSTRUMENT BLANKS
EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Instrument ID: TOC Cube
Calibration: FD00070
Sequence: SKD0371
Date Analyzed: 04/27/22 02:33

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKD0371-ICB1	Total Organic Carbon	0.00	0.02	0.02	%	

INSTRUMENT BLANKS
EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Instrument ID: TOC Cube
Calibration: FD00070
Sequence: SKL0152
Date Analyzed: 12/12/22 11:15

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKL0152-ICB1	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0152-CCB1	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0152-CCB2	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0152-CCB3	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0152-CCB4	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0152-CCB5	Total Organic Carbon	0.003	0.02	0.02	%	
SKL0152-CCB6	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0152-CCB7	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0152-CCB8	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0152-CCB9	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0152-CCBA	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0152-CCBB	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0152-CCBC	Total Organic Carbon	0.002	0.02	0.02	%	
SKL0152-CCBD	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0152-CCBE	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0152-CCBF	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0152-CCBG	Total Organic Carbon	0.00	0.02	0.02	%	

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Instrument ID: TOC Cube
Calibration: FD00070
Control Limt: +/- 10.00%
Sequence: SKD0371

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SKD0371-ICV1	Total Organic Carbon	44.446	43.7	98.3	%	EPA 9060A m
	Total Carbon	44.446	44.1	99.2	%	EPA 9060A m
	Total Inorganic Carbon	0.0000	0.40		%	EPA 9060A m
	% Soot	0.0000	0.004		%	EPA 9060A m

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Instrument ID: TOC Cube
Calibration: FD00070
Control Limt: +/- 10.00%
Sequence: SKL0152

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SKL0152-ICV1	Total Organic Carbon	44.446	45.0	101	%	EPA 9060A m
SKL0152-CCV1	Total Organic Carbon	44.446	44.8	101	%	EPA 9060A m
SKL0152-CCV2	Total Organic Carbon	44.446	44.6	100	%	EPA 9060A m
SKL0152-CCV3	Total Organic Carbon	44.446	44.1	99.1	%	EPA 9060A m
SKL0152-CCV4	Total Organic Carbon	44.446	43.0	96.8	%	EPA 9060A m
SKL0152-CCV5	Total Organic Carbon	44.446	43.0	96.7	%	EPA 9060A m
SKL0152-CCV6	Total Organic Carbon	44.446	44.5	100	%	EPA 9060A m
SKL0152-CCV7	Total Organic Carbon	44.446	43.1	97.1	%	EPA 9060A m
SKL0152-CCV8	Total Organic Carbon	44.446	45.2	102	%	EPA 9060A m
SKL0152-CCV9	Total Organic Carbon	44.446	45.0	101	%	EPA 9060A m
SKL0152-CCVA	Total Organic Carbon	44.446	44.9	101	%	EPA 9060A m
SKL0152-CCVB	Total Organic Carbon	44.446	44.8	101	%	EPA 9060A m
SKL0152-CCVC	Total Organic Carbon	44.446	45.1	101	%	EPA 9060A m
SKL0152-CCVD	Total Organic Carbon	44.446	44.0	99.0	%	EPA 9060A m
SKL0152-CCVE	Total Organic Carbon	44.446	45.4	102	%	EPA 9060A m
SKL0152-CCVF	Total Organic Carbon	44.446	45.6	103	%	EPA 9060A m
SKL0152-CCVG	Total Organic Carbon	44.446	45.1	101	%	EPA 9060A m

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0268-SRM1
Batch: BKL0268
Initial/Final: 0.2948 g / 0.2948 g
Preparation: Plumb 1981
Analyzed: 12/14/2022 7:48
Standard ID: K003456
Expires: 12/12/2079
Standard Lot#: NA
Description: 1941B - Organics in Marine Sediment (Conv

ANALYTE	TRUE (% wet)	FOUND (% wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Total Organic Carbon	2.9900	2.89	0.02	0.02		96.5	80 - 120

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0299-SRM1
Batch: BKL0299
Initial/Final: 0.3121 g / 0.3121 g
Preparation: Plumb 1981
Analyzed: 12/15/2022 1:32
Standard ID: K003456
Expires: 12/12/2079
Standard Lot#: NA
Description: 1941B - Organics in Marine Sediment (Conv

ANALYTE	TRUE (% wet)	FOUND (% wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Total Organic Carbon	2.9900	2.97	0.02	0.02		99.5	80 - 120

* Values outside of QC limits

HOLDING TIME SUMMARY

Analysis: EPA 9060A m

Laboratory: Analytical Resources, LLC SDG: 22L0136

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-SS823 22L0136-01	12/06/22 09:41	12/06/22 16:40	12/12/22 10:30	6	14	12/14/22 19:26			
LDW22-SS822 22L0136-02	12/06/22 10:10	12/06/22 16:40	12/12/22 10:30	6	14	12/14/22 19:57			
LDW22-SS821 22L0136-03	12/06/22 10:23	12/06/22 16:40	12/12/22 10:30	6	14	12/14/22 20:27			
LDW22-SS820 22L0136-04	12/06/22 10:49	12/06/22 16:40	12/12/22 10:30	5	14	12/14/22 20:58			
LDW22-SS819 22L0136-05	12/06/22 11:11	12/06/22 16:40	12/12/22 10:30	5	14	12/14/22 21:28			
LDW22-SS818 22L0136-06	12/06/22 11:24	12/06/22 16:40	12/12/22 10:30	5	14	12/14/22 21:59			
LDW22-SS811 22L0136-07	12/06/22 12:05	12/06/22 16:40	12/12/22 10:30	5	14	12/14/22 22:29			
LDW22-SS786 22L0136-08	12/06/22 12:26	12/06/22 16:40	12/13/22 08:20	6	14	12/15/22 02:02			
LDW22-SS766 22L0136-09	12/06/22 13:16	12/06/22 16:40	12/13/22 08:20	6	14	12/15/22 03:34			
LDW22-SS771 22L0136-10	12/06/22 13:35	12/06/22 16:40	12/13/22 08:20	6	14	12/15/22 04:04			
LDW22-SS771-FD 22L0136-11	12/06/22 13:35	12/06/22 16:40	12/13/22 08:20	6	14	12/15/22 04:34			
LDW22-SS772 22L0136-12	12/06/22 13:57	12/06/22 16:40	12/13/22 08:20	6	14	12/15/22 05:05			
Duplicate BKL0299-DUP1	12/06/22 12:26	12/06/22 16:40	12/13/22 08:20	6	14	12/15/22 02:33			
Matrix Spike BKL0299-MS1	12/06/22 12:26	12/06/22 16:40	12/13/22 08:20	6	14	12/15/22 03:03			

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0136
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Instrument: TOC Cube

Analyte	MDL	RL	Units
Total Organic Carbon	0.02	0.02	%

National Institute of Standards & Technology

Certificate of Analysis

Standard Reference Material® 1941b

Organics in Marine Sediment

This Standard Reference Material (SRM) is marine sediment collected at the mouth of the Baltimore (MD) Harbor. SRM 1941b is intended for use in evaluating analytical methods for the determination of selected polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCB) congeners, and chlorinated pesticides in marine sediment and similar matrices. Information values are also provided for total organic carbon (TOC), total carbon, hydrogen, and nitrogen. All of the constituents for which certified, reference, and information values are provided in SRM 1941b were naturally present in the sediment before processing. A unit of SRM 1941b consists of a bottle containing 50 g of radiation-sterilized, freeze-dried sediment.

Certified Mass Fraction Values: Certified mass fraction values for PAHs, PCB congeners, and chlorinated pesticides are provided in Table 1 through Table 3. The certified values for the PAHs, PCB congeners, and chlorinated pesticides are based on the agreement of results obtained at NIST from two or more chemically independent analytical techniques along with results from an interlaboratory comparison study [1]. A NIST certified value is a value for which NIST has the highest confidence in its accuracy in that all known or suspected sources of bias have been investigated or taken into account [1].

Reference Mass Fraction Values: Reference mass fraction values for additional PAHs (some in combination), additional PCB congeners, and additional chlorinated pesticides are provided in Table 4 through Table 7. Reference values for alkylated PAH groups are provided in Table 8 and for selected hopanes and steranes in Table 9. A reference value for total organic carbon is provided in Table 10. Reference values are noncertified values that are the best estimate of the true value; however, the values do not meet the NIST criteria for certification and are provided with associated uncertainties that may reflect only measurement precision, may not include all sources of uncertainty, or may reflect a lack of sufficient statistical agreement among multiple analytical methods [1].

Information Mass Fraction Values: Information mass fraction values are provided in Table 11 for carbon, hydrogen, and nitrogen. An information value is considered to be a value that will be of use to the SRM user, but insufficient information is available to assess the uncertainty associated with the value [1]. Information values cannot be used to establish metrological traceability.

Expiration of Certification: The certification of **SRM 1941b** is valid, within the measurement uncertainty specified, until **01 October 2020**, provided the SRM is handled and stored in accordance with the instructions given in this certificate (see "Instructions for Handling, Storage, and Use"). This certification is nullified if the SRM is damaged, contaminated, or otherwise modified.

Maintenance of SRM Certification: NIST will monitor this SRM over the period of its certification. If substantive technical changes occur that affect the certification before the expiration of this certificate, NIST will notify the purchaser. Registration (see attached sheet or register online) will facilitate notification.

Coordination of the technical measurements leading to the certification of this material was under the leadership of M.M. Schantz and S.A. Wise of the NIST Chemical Sciences Division.

Analytical measurements for the certification of SRM 1941b were performed at NIST by J.R. Kucklick, B.J. Porter, D.L. Poster, M.M. Schantz, P. Schubert, S. Tutschku, and L.L. Yu of the NIST Chemical Sciences Division.

Carlos A. Gonzalez, Chief
Chemical Sciences Division

Gaithersburg, MD 20899
Certificate Issue Date: 16 January 2015

Robert L. Watters, Jr., Director
Office of Reference Materials

Measurements for TOC were provided by a commercial laboratory and T.L. Wade of the Geochemical and Environmental Research Group, Texas A&M University (College Station, TX). The carbon, hydrogen, and nitrogen data were provided by a commercial laboratory. Results for the PAHs, PCBs, and chlorinated pesticides from 38 laboratories (see Appendix A) that participated in an interlaboratory comparison exercise coordinated by NIST were used. Results for the alkylated PAH groups, hopanes, and steranes from 33 laboratories (see Appendix B) that participated in another interlaboratory comparison exercise coordinated by NIST were also used.

Collection and preparation of SRM 1941b were performed by M.P. Cronise and C.N. Fales of the NIST Office of Reference Materials and B.J. Porter and M.M. Schantz of the NIST Chemical Sciences Division. The sediment material was collected with the assistance of G.G. Lauenstein, J. Collier, and J. Lewis (National Oceanic and Atmospheric Administration, Silver Spring, MD).

Consultation on the statistical design of the experimental work and evaluation of the data were provided by S.D. Leigh and J.H. Yen of the NIST Statistical Engineering Division.

Support aspects involved in the issuance of this SRM were coordinated through the NIST Office of Reference Materials.

INSTRUCTIONS FOR HANDLING, STORAGE, AND USE

Handling: This material is naturally occurring marine sediment from an urban area and may contain constituents of unknown toxicities; therefore, caution and care should be exercised during its handling and use.

Storage: SRM 1941b must be stored in its original bottle at temperatures less than 30 °C and away from direct sunlight.

Use: Prior to removal of subsamples for analysis, the contents of the bottle should be mixed. The mass fractions of constituents in SRM 1941b are reported on a dry-mass basis. The SRM, as received, contains a mass fraction of approximately 2.4 % moisture (see "Conversion to Dry-Mass Basis"). The sediment sample should be dried to a constant mass before weighing for analysis; or a separate subsample of the sediment should be removed from the bottle at the time of analysis and dried to determine the mass fraction on a dry-mass basis. If the constituents of interest are volatile, then the moisture must be determined with a separate subsample.

PREPARATION AND ANALYSIS[1]

Sample Collection and Preparation: The sediment used to prepare this SRM was collected from the Chesapeake Bay at the mouth of the Baltimore (MD) Harbor near the Francis Scott Key Bridge (39°12.3'N and 76°31.4'W). This location is very near the site where SRM 1941 and SRM 1941a were collected. The sediment was collected using a Kynar-coated modified Van Veen-type grab sampler. A total of approximately 3300 kg of wet sediment was collected from the site. The sediment was freeze-dried, sieved at 150 μm (100 % passing), homogenized in a cone blender, radiation sterilized (^{60}Co), and then packaged in screw-capped amber glass bottles each containing approximately 50 g.

Conversion to Dry-Mass Basis: The results for the constituents in SRM 1941b are reported on a dry-mass basis; however, the material "as received" contains residual moisture. The amount of moisture in SRM 1941b was determined by measuring the mass loss after freeze-drying subsamples of 1.1 g to 1.3 g for four days at 1 Pa with a –10 °C shelf temperature and a –50 °C condenser temperature. The moisture content in SRM 1941b at the time of the certification analyses was 2.39 % ± 0.08 % (95 % confidence level). Analytical results for the organic constituents were determined on an as-received basis and then converted to a dry-mass basis by dividing by the conversion factor of 0.9761 (gram dry mass per gram as-received mass).

Polycyclic Aromatic Hydrocarbons: The general approach used for the value assignment of the PAHs in SRM 1941b was similar to that reported in detail elsewhere [2]. The approach consisted of combining results from analyses using various combinations of different extraction techniques and solvents, clean-up/isolation procedures, and chromatographic separation and detection techniques: Soxhlet extraction and pressurized-fluid extraction (PFE) using dichloromethane (DCM) or a hexane/acetone mixture, cleanup of the extracts using solid-phase extraction (SPE) or normal-phase liquid chromatography (LC), followed by analysis using the following techniques: (1) reversed-phase liquid chromatography with fluorescence detection (LC-FL) analysis of the total PAH fraction, (2) reversed-phase

[1] Certain commercial equipment, instruments or materials are identified in this certificate to adequately specify the experimental procedure. Such identification does not imply recommendation or endorsement by the National Institute of Standards

LC-FL analysis of isomeric PAH fractions isolated by normal-phase LC (i.e., multidimensional LC), (3) gas chromatography/mass spectrometry (GC/MS) analysis of the PAH fraction on three stationary phases of different selectivity, i.e., a 5 % (all column compositions are given as mole fractions in %) phenyl-substituted methylpolysiloxane phase, a 50 % phenyl-substituted methylpolysiloxane phase, and a relatively non-polar proprietary phase.

Three sets of GC/MS results, designated as GC/MS (I), GC/MS (II), and GC/MS (III), were obtained using three columns with different selectivities for the separation of PAHs. For GC/MS (I) analyses, duplicate subsamples of approximately 1 g from ten bottles of SRM 1941b were extracted using PFE with DCM. Copper powder was added to the extract to remove elemental sulfur. The concentrated extract was passed through an aminopropyl SPE cartridge and eluted with 2 % DCM in hexane (all solvent concentrations are given as volume fractions in %). The processed extract was then analyzed by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a 5 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-5 MS, J&W Scientific, Folsom, CA). The GC/MS (II) analyses were performed using 5 g subsamples from six bottles of SRM 1941b. These samples were extracted using PFE with DCM. The high molecular mass compounds were removed from the extracts using size exclusion chromatography (SEC) with a preparative-scale divinylbenzene-polystyrene column (10 μm particle size with 10 nm diameter pores), and the sulfur was removed from the extracts by adding copper powder. The concentrated extract was passed through an aminopropyl SPE cartridge and eluted with 10 % DCM in hexane. The analysis was by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a 50 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-17 MS, J&W Scientific). For the GC/MS (III), 9 g subsamples from six bottles of SRM 1941b were Soxhlet-extracted for 18 h with 250 mL of a mixture of 50 % hexane/50 % acetone. Copper powder was added to the extract to remove elemental sulfur, and the concentrated extract was passed through a silica SPE cartridge and eluted with 10 % DCM in hexane. The processed extract was then analyzed by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a relatively non-polar proprietary phase (0.25 μm film thickness; DB-XLB, J&W Scientific).

Two sets of LC-FL results, designated as LC-FL (total) and LC-FL (isomer), were used in the certification process. For the LC-FL (total), subsamples of approximately 1 g from six bottles of SRM 1941b were extracted using PFE with a mixture of 50 % hexane/50 % acetone. The extracts were concentrated and then processed through an aminopropylsilane SPE cartridge using 2 % DCM in hexane to obtain the total PAH fraction. For the LC-FL (isomer), a 5 g subsample from the six bottles was extracted using PFE with DCM and processed through an aminopropylsilane SPE cartridge using 10 % DCM in hexane; the PAH fraction was then fractionated further on a semi-preparative aminopropylsilane column (μBondapak NH_2, 9 mm i.d. × 30 cm, Waters Associates, Milford, MA) to isolate isomeric PAH fractions as described previously [3–6]. The total PAH fraction and the isomeric PAH fractions were analyzed using a 5 μm particle-size polymeric octadecylsilane (C_{18}) column (4.6 mm i.d. × 25 cm, Hypersil-PAH, Keystone Scientific, Inc., Bellefonte, PA) with wavelength-programmed fluorescence detection [4,5].

For the GC/MS and LC-FL measurements described above, selected perdeuterated PAHs were added to the sediment prior to solvent extraction for use as internal standards for quantification purposes.

In addition to the analyses performed at NIST, SRM 1941b was used in an interlaboratory comparison exercise in 1999 as part of the NIST Intercomparison Exercise Program for Organic Contaminants in the Marine Environment [7]. Results from 38 laboratories that participated in this exercise were used as the sixth data set in the determination of the certified values for PAHs in SRM 1941b. The laboratories participating in this exercise used the analytical procedures routinely used in their laboratories to measure the analytes of interest.

Homogeneity Assessment for PAHs: The homogeneity of SRM 1941b was assessed by analyzing duplicate samples of approximately 1 g from ten bottles selected by stratified random sampling. Samples were extracted, processed, and analyzed as described above for GC/MS (I). No statistically significant differences among bottles were observed for the PAHs at this sample size.

PAH Isomers of Molecular Mass 300 and 302: For the determination of the molecular mass 300 and 302 isomers, three subsamples of approximately 5 g each were extracted using PFE with DCM. The extracts were then concentrated with a solvent change to hexane and passed through an aminopropyl SPE cartridge and eluted with 10 % DCM in hexane. The processed extract was then analyzed by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a 50 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-17MS, J&W Scientific). Perdeuterated dibenzo[*a,i*]pyrene was added to the sediment prior to extraction for use as an internal standard [8].

PCBs and Chlorinated Pesticides: The general approach used for the determination of PCBs and chlorinated pesticides in SRM 1941b consisted of combining results from analyses using various combinations of different extraction techniques and solvents, cleanup/isolation procedures, and chromatographic separation and detection techniques. Techniques and solvents included Soxhlet extraction and PFE using DCM or a hexane/acetone mixture.

clean-up/isolation using SPE or LC, followed by analysis using GC/MS and gas chromatography with electron capture detection (GC-ECD) on two columns with different selectivity for the separation of PCBs and chlorinated pesticides. The analytical methods are described in detail elsewhere [2].

Six sets of results were obtained and designated as GC-ECD (I) A and B, GC/MS (I) A and B, GC/MS (II), and Interlaboratory Comparison Exercise. For the GC-ECD (I) analyses, approximately 10 g subsamples from six bottles of SRM 1941b were extracted using PFE with DCM. Copper powder was added to the extract to remove elemental sulfur, and SEC, as described above, was used to remove the high molecular mass compounds. The concentrated extract was then fractionated on a semi-preparative aminopropylsilane column to isolate two fractions containing: (1) the PCBs and lower-polarity pesticides and (2) the more polar pesticides. GC-ECD analyses of the two fractions were performed on two columns of different selectivities for PCB separations: 0.25 mm × 60 m fused silica capillary column with a 5 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-5, J&W Scientific), and a 0.25 mm × 60 m fused silica capillary column with a non-polar proprietary phase (0.25 μm film thickness; DB-XLB, J&W Scientific). The results from the 5 % phenyl phase are designated as GC-ECD (IA) and the results from the proprietary phase are designated as GC-ECD (IB). For the GC-ECD analyses, two PCB congeners that are not significantly present in the sediment extract (PCB 103 and PCB 198 [9,10]) and endosulfan I-d_4, 4,4'-DDE-d_8, 4,4'-DD-d_8, and 4,4'-DDT-d_8 were added to the sediment prior to extraction for use as internal standards for quantification purposes.

Two sets of results were obtained by GC/MS. For GC/MS (I), approximately 9 g subsamples from six bottles were Soxhlet- extracted with a mixture of 50 % hexane/50 % acetone for approximately 18 h. Copper powder was added to the extract to remove elemental sulfur, and the concentrated extract was passed through a silica SPE cartridge and eluted with 10 % DCM in hexane. The processed extract was then analyzed by GC/MS with two ionization modes, electron impact (EI) and negative ion chemical ionization (NICI). The GC/MS EI method, GC/MS (IA), used a 0.25 mm i.d. × 60 m fused silica capillary column with a relatively non-polar proprietary phase (0.25 μm film thickness; DB-XLB, J&W Scientific). The GC/MS NICI method, GC/MS (IB), used a 0.25 mm i.d. × 60 m fused silica capillary column with a 5 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-5MS, J&W Scientific). The GC/MS (II) results were obtained in the same manner as the GC/MS (IA) analyses except that three subsamples were Soxhlet-extracted with DCM for approximately 18 h. For the GC/MS analyses, selected carbon-13 labeled PCB congeners and chlorinated pesticides were added to the sediment prior to extraction for use as internal standards for quantification purposes.

In addition to the analyses performed at NIST, SRM 1941b was used in an interlaboratory comparison exercise in 1999 as part of the NIST Intercomparison Exercise Program for Organic Contaminants in the Marine Environment [7]. Results from 38 laboratories that participated in this exercise were used as the sixth data set in the determination of the certified values for PCB congeners and chlorinated pesticides in SRM 1941b. The laboratories participating in this exercise used the analytical procedures routinely used in their laboratories to measure the analytes of interest.

The reference value for PCB 77 was determined from a separate fraction. The samples were extracted and processed as for GC-ECD (I) above. The first (PCB and lower-polarity pesticide) fraction from the semi-preparative aminopropylsilane column was further fractionated using a Cosmosil PYE (pyrenylethyl group bonded) column (5 μm particle size, 4.6 mm i.d. × 25 cm ; Phenomenex, Torrance, CA) [11]. Three fractions were collected: the first fraction contained the pesticides and multi-*ortho* PCBs, the second fraction contained the polychlorinated naphthalenes, non-*ortho* PCB congeners, and some mono-*ortho* PCB congeners, and the third fraction removed the residual planar compounds from the column. The second fraction was analyzed by GC/MS NICI using the same column as GC/MS (IB) above. Carbon-13 labeled PCB 77 was used as an internal standard for quantification purposes.

Alkylated PAH Groups, Hopanes, and Steranes: SRM 1941b was used in an interlaboratory comparison exercise in 2011 [12]. Results from 33 laboratories that participated in this exercise were used in the determination of the reference values for alkylated PAH groups, hopanes, and steranes in SRM 1941b. Note that not all laboratories returned data for each analyte. The laboratories participating in this exercise used the analytical procedures routinely used in their laboratories to measure the analytes of interest. For the alkylated PAHs, the majority of the laboratories (>90 %) used the parent PAH for determination of the response factor for the corresponding alkylated group.

Total Organic Carbon (TOC): Two laboratories provided results for TOC using similar procedures. Briefly, subsamples of approximately 200 mg were reacted with 6 mol/L hydrochloric acid and rinsed with deionized water prior to combustion in a gas fusion furnace. The carbon monoxide and carbon dioxide produced were measured and compared to a blank for calculation of the percent TOC. Each laboratory analyzed subsamples from three bottles of SRM 1941b. One of the laboratories also analyzed three subsamples from three bottles of SRM 1941b for carbon, hydrogen, and nitrogen.

Table 1. Certified Mass Fraction Values for PAHs in SRM 1941b

PAHs	Mass Fractions[a] (µg/kg)		
Naphthalene[b,c,d,e,f,g]	848	±	95[h]
Fluorene[b,c,d,e,f,g]	85	±	15[h]
Phenanthrene[b,c,d,e,f,g]	406	±	44[h]
Anthracene[b,c,d,e,f,g]	184	±	18[h]
3-Methylphenanthrene[b,c,d]	105	±	13[h]
2-Methylphenathrene[b,c,d]	128	±	14[h]
1-Methylphenanthrene[b,c,d,g]	73.2	±	5.9[h]
Fluoranthene[b,c,d,e,f,g]	651	±	50[h]
Pyrene[b,c,d,e,f,g]	581	±	39[h]
Benz[*a*]anthracene[b,c,d,e,f,g]	335	±	25[h]
Chrysene[d,f]	291	±	31[h]
Triphenylene[d,f]	108	±	5[i]
Benzo[*b*]fluoranthene[c,e]	453	±	21[h]
Benzo[*k*]fluoranthene[b,c,d,e]	225	±	18[h]
Benzo[*e*]pyrene[b,c,d,g]	325	±	25[h]
Benzo[*a*]pyrene[b,c,d,f,g]	358	±	17[h]
Perylene[b,c,d,f,g]	397	±	45[h]
Benzo[*ghi*]perylene[b,c,d,f,g]	307	±	45[h]
Indeno[1,2,3-*cd*]pyrene[b,c,d,f,g]	341	±	57[h]
Dibenz[*a,j*]anthracene[b,c,d,f]	48.9	±	4.6[h]
Dibenz[*a,c*]anthracene[c,f]	36.7	±	5.2[h]
Dibenz[*a,h*]anthracene[c,f]	53	±	10[h]
Benzo[*b*]chrysene[b,c,d,f]	53	±	12[h]
Picene[b,c,d]	46.6	±	4.7[h]

[a] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.
[b] GC/MS (I) on 5 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.
[c] GC/MS (II) on 50 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.
[d] GC/MS (III) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.
[e] LC-FL (total) of total PAH fraction after PFE with DCM.
[f] LC-FL (isomer) of isomeric PAH fractions after PFE with DCM.
[g] 1999 Interlaboratory Comparison Study [7] with 21 to 29 laboratories submitting data for each PAH.
[h] Certified values are weighted means of the results from two to six analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.
[i] The certified value is an unweighted mean of the results from two analytical methods. The uncertainty listed with the value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the value is metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

Table 2. Certified Mass Fraction Values for PCB Congeners[a] in SRM 1941b

PCB Congeners			Mass Fractions[b] (µg/kg)		
PCB	8	(2,4'-Dichlorobiphenyl)[c,d,e,f,g]	1.65	±	0.19[h]
PCB	18	(2,2',5-Trichlorobiphenyl)[c,d,e,f,g]	2.39	±	0.29[h]
PCB	28	(2,4,4'-Trichlorobiphenyl)[c,d,e,f,g]	4.52	±	0.57[h]
PCB	31	(2,4',5-Trichlorobiphenyl)[c,e,f]	3.18	±	0.41[h]
PCB	44	(2,2'3,5'-Tetrachlorobiphenyl)[c,d,e,f,g]	3.85	±	0.20[i]
PCB	49	(2,2'4,5'-Tetrachlorobiphenyl)[c,d,e,f]	4.34	±	0.28[i]
PCB	52	(2,2',5,5'-Tetrachlorobiphenyl)[c,d,e,f,g]	5.24	±	0.28[i]
PCB	66	(2,3',4,4'-Tetrachlorobiphenyl)[c,e,f,g,j]	4.96	±	0.53[i]
PCB	87	(2,2',3,4,5'-Pentachlorobiphenyl)[c,d,f,j]	1.14	±	0.16[h]
PCB	95	(2,2',3,5',6-Pentachlorobiphenyl)[c,e,f,g]	3.93	±	0.62[i]
PCB	99	(2,2',4,4',5-Pentachlorobiphenyl)[c,d,e,f,g]	2.90	±	0.36[i]
PCB	101	(2,2',4,5,5'-Pentachlorobiphenyl)[c,e,f,g,j]	5.11	±	0.34[i]
PCB	105	(2,3,3',4,4'-Pentachlorobiphenyl)[c,d,e,f,g,j]	1.43	±	0.10[i]
PCB	110	(2,3,3',4',6-Pentachlorobiphenyl)[c,e,f,j]	4.62	±	0.36[i]
PCB	118	(2,3',4,4',5-Pentachlorobiphenyl)[c,d,e,f,g,j]	4.23	±	0.19[i]
PCB	128	(2,2',3,3',4,4'-Hexachlorobiphenyl)[c,d,e,f,g,j]	0.696	±	0.044[i]
PCB	138	(2,2',3,4,4',5'-Hexachlorobiphenyl)[c,e,f,j]	3.60	±	0.28[i]
PCB	149	(2,2',3,4',5',6-Hexachlorobiphenyl)[c,d,e,j]	4.35	±	0.26[h]
PCB	153	(2,2',4,4',5,5'-Hexachlorobiphenyl)[c,d,e,f,g,j]	5.47	±	0.32[i]
PCB	156	(2,3,3',4,4',5-Hexachlorobiphenyl)[c,d,e,f,j]	0.507	±	0.090[h]
PCB	170	(2,2',3,3',4,4',5-Heptachlorobiphenyl)[c,d,e,f,g,j]	1.35	±	0.09[i]
PCB	180	(2,2',3,4,4',5,5'-Heptachlorobiphenyl)[c,d,e,f,g,j]	3.24	±	0.51[i]
PCB	183	(2,2',3,4,4',5',6-Heptachlorobiphenyl)[c,d,e,j]	0.979	±	0.087[h]
PCB	187	(2,2',3,4',5,5',6-Heptachlorobiphenyl)[c,d,e,f,g,j]	2.17	±	0.22[i]
PCB	194	(2,2',3,3',4,4',5,5'-Octachlorobiphenyl)[c,d,e,j]	1.04	±	0.06[h]
PCB	195	(2,2',3,3',4,4',5,6-Octachlorbiphenyl)[c,e,g,j]	0.645	±	0.060[i]
PCB	201	(2,2',3,3',4,5',6,6'-Octachlorobiphenyl)[c,e,j]	0.777	±	0.034[h]
PCB	206	(2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl)[c,e,f,g,j]	2.42	±	0.19[i]
PCB	209	Decachlorobiphenyl[c,d,e,f,g,j]	4.86	±	0.45[i]

[a] PCB congeners are numbered according to the scheme proposed by Ballschmiter and Zell [9] and later revised by Schulte and Malisch [10] to conform to IUPAC rules, except PCB 201. Under the Ballschmiter and Zell numbering system, the IUPAC PCB 201 is listed as PCB 200.

[b] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

[c] GC/MS (IA) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

[d] GC-ECD (IA) on 5 % phenyl-substituted methylpolysiloxane phase after PFE extraction with DCM.

[e] GC-ECD (IB) on a relatively non-polar proprietary phase; same extracts analyzed as in GC-ECD (IA).

[f] GC/MS (II) on a relatively non-polar proprietary phase after Soxhlet extraction with DCM.

[g] 1999 Interlaboratory Comparison Study [7] with 13 to 31 laboratories submitting data for each PCB congener.

[h] Certified values are unweighted means of the results from three to five analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

[i] Certified values are weighted means of the results from three to six analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

[j] GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).

Table 3. Certified Mass Fraction Values for Chlorinated Pesticides in SRM 1941b

Chlorinated Pesticides	Mass Fractions[a] (µg/kg)
Hexachlorobenzene[b,c,d,e]	5.83 ± 0.38[f]
cis-Chlordane[b,c,d,e,g]	0.85 ± 0.11[h]
trans-Chlordane[b,c,e]	0.566 ± 0.093[f]
cis-Nonachlor[b,e,g]	0.378 ± 0.053[h]
trans-Nonachlor[b,c,d,e,g]	0.438 ± 0.073[f]
4,4'-DDE[b,d,e,g]	3.22 ± 0.28[h]
4,4'-DDD[b,d,e,g]	4.66 ± 0.46[h]

[a] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.
[b] GC/MS (IA) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.
[c] GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).
[d] GC/MS (II) on a relatively non-polar proprietary phase after Soxhlet extraction with DCM.
[e] 1999 Interlaboratory Comparison Study [7] with 13 to 31 laboratories submitting data for each pesticide.
[f] Certified values are unweighted means of the results from three to five analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.
[g] GC-ECD (IA) on 5 % phenyl-substituted methylpolysiloxane phase after PFE extraction with DCM.
[h] Certified values are weighted means of the results from three to five analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the chlorinated pesticides listed and the values listed are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

Table 4. Reference Mass Fraction Values for PAHs in SRM 1941b

PAHs	Mass Fractions[a] (µg/kg)		
1-Methylnaphthalene[b,c,d,e]	127	±	14[f]
2-Methylnaphthalene[b,c,d,e]	276	±	53[f]
2,6-Dimethylnaphthalene[b,c,d,e]	75.9	±	4.5[f]
2,3,5-Trimethylnaphthalene[b,c,d,e]	25.5	±	5.1[f]
Biphenyl[b,c,d,e]	74.0	±	8.0[f]
Acenaphthylene[b,c,d,e]	53.3	±	6.4[f]
Acenaphthene[b,c,d,e]	38.4	±	5.2[f]
9-Methylphenanthrene[c]	63.5	±	2.5[g]
4-Methylphenanthrene and 9-Methylphenanthrene[b,d]	80.1	±	4.8[f]
2-Methylanthracene[c,d]	36	±	15[f]
8-Methylfluoranthene[b]	49.5	±	2.7[g]
7-Methylfluoranthene[b]	45.4	±	1.5[g]
1-Methylfluoranthene[b]	42.4	±	2.1[g]
3-Methylfluoranthene[b]	28.8	±	1.3[g]
2-Methylpyrene[b]	78.7	±	4.0[g]
4-Methylpyrene[b]	66.4	±	2.6[g]
1-Methylpyrene[b]	52.5	±	2.3[g]
Acephenanthrene[d]	30.5	±	1.9[g]
Benzo[*c*]phenanthrene[b,c,d]	58	±	15[f]
Benzo[*a*]fluoranthene[b,c,d]	73	±	18[f]
Benzo[*j*]fluoranthene[c]	217	±	5[g]
Indeno[1,2,3-*cd*]fluoranthene[d]	9.63	±	0.34[g]
Pentaphene[d]	25.3	±	1.0[g]

[a] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

[b] GC/MS (I) on 5 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.

[c] GC/MS (II) on 50 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.

[d] GC/MS (III) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

[e] 1999 Interlaboratory Comparison Study [7] with 14 to 26 laboratories submitting data for each PAH.

[f] Reference values are weighted means of the results from two to four analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of PAHs listed as determined by the methods indicted. The values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

[g] Reference values are the means of results obtained by NIST using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the analyte mean, and the coverage factor, k, is determined from the Student's t-distribution for the associated degrees of freedom (19 for footnote b and 5 for footnotes c and d) and 95 % confidence level for each analyte. The measurand is the total mass fraction of the PAHs listed as determined by the method indicted. The values listed are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

Table 5. Reference Mass Fraction Values for PAHs of Molecular Mass 300 and 302 in SRM 1941b

PAHs of Molecular Mass 300 and 302	Mass Fractions[a,b,c] (µg/kg)		
Coronene	72.6	±	4.7
Dibenzo[*b,e*]fluoranthene	10.3	±	0.3
Naphtho[1,2-*b*]fluoranthene	91.0	±	3.1
Naphtho[1,2-*k*]fluoranthene and Naphtho[2,3-*j*]fluoranthene	79.8	±	2.5
Naphtho[2,3-*b*]fluoranthene	23.5	±	0.3
Dibenzo[*b,k*]fluoranthene	95.6	±	3.1
Dibenzo[*a,k*]fluoranthene	26.6	±	0.4
Dibenzo[*j,l*]fluoranthene	63.8	±	1.8
Dibenzo[*a,l*]pyrene	11.1	±	1.0
Naphtho[2,3-*k*]fluoranthene	10.7	±	0.6
Naphtho[1,2-*a*]pyrene	16.7	±	1.4
Naphtho[2,3-*e*]pyrene	33.2	±	2.3
Dibenzo[*a,e*]pyrene	76.1	±	3.6
Naphtho[2,1-*a*]pyrene	59.2	±	1.8
Dibenzo[*e,i*]pyrene	35.0	±	2.4
Naphtho[2,3-*a*]pyrene	16.5	±	0.6
Benzo[*b*]perylene	38.2	±	1.2
Dibenzo[*a,i*]pyrene	25.5	±	1.0
Dibenzo[*a,h*]pyrene	6.94	±	0.29

[a] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

[b] Reference values are the means of results obtained by NIST using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the analyte mean, and the coverage factor, k, is determined from the Student's t-distribution for two degrees of freedom and 95 % confidence level for each analyte. The measurand is the total mass fraction of the constituent listed as determined by the method indicted. The values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

[c] GC/MS on 50 % phenyl-substituted methylpolysiloxane phase after PFE with DCM [8].

Table 6. Reference Mass Fraction Values for PCB Congeners[a] in SRM 1941b

PCB Congeners			Mass Fractions[b,c] (µg/kg)		
PCB	45	(2,2',3,6-Tetrachlorobiphenyl)[d,e]	0.73	±	0.12
PCB	56	(2,3,3',4'-Tetrachlorobiphenyl)[d,f,g]	1.21	±	0.11
PCB	63	(2,3,4',5-Tetrachlorobiphenyl)[e,f,g]	0.213	±	0.040
PCB	70	(2,3',4',5-Tetrachlorobiphenyl)[e,f,g]	4.99	±	0.29
PCB	74	(2,4,4',5-Tetrachlorobiphenyl)[e,f,g]	2.04	±	0.15
PCB	77	(3,3',4,4'-Tetrachlorobiphenyl)[h]	0.31	±	0.03
PCB	107	(2,3,3',4',5-Pentachlorobiphenyl)[d,e,f,g]	0.628	±	0.028
PCB	132	(2,2',3,3',4,6'-Hexachlorobiphenyl)[d,f,g]	1.28	±	0.27
PCB	146	(2,2',3,4',5,5'-Hexachlorobiphenyl)[e,f,g]	1.22	±	0.12
PCB	158	(2,3,3',4,4',6-Hexachlorobiphenyl)[d,e,f,g]	0.65	±	0.15
PCB	163	(2,3,3',4',5,6-Hexachlorobiphenyl)[e,f,g]	1.28	±	0.06
PCB	174	(2,2',3,3',4,5,6'-Heptachlorobiphenyl)[d,e,f,g]	1.51	±	0.39
PCB	193	(2,3,3',4',5,5',6-Heptachlorobiphenyl)[d,e,f,g]	0.292	±	0.075

[a] PCB congeners are numbered according to the scheme proposed by Ballschmiter and Zell [9] and later revised by Schulte and Malisch [10] to conform with IUPAC rules, except PCB 107. Under the Ballschmiter and Zell numbering system, the IUPAC PCB 107 is listed as PCB 108.

[b] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

[c] For these PCB congeners except PCB 77, the reference values are unweighted means of the results from two to four analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled within-method variance following the ISO/JCGM Guide [14,15]. For PCB 77, the reference value is the mean of results obtained by NIST using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the analyte mean, and the coverage factor, k, is determined from the Student's t-distribution corresponding to two degrees of freedom and 95 % confidence level for PCB 77. The measurand is the total mass fraction of the PCB Congeners listed as determined by the method or methods indicted. The values listed are metrologically traceable to the SI unit of mass, expressed as microgram per kilogram on a dry-mass basis.

[d] GC-ECD (IA) on 5 % phenyl-substituted methylpolysiloxane phase after PFE extraction with DCM.

[e] GC-ECD (IB) on a relatively non-polar proprietary phase; same extracts analyzed as in GC-ECD (IA).

[f] GC/MS (IA) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

[g] GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).

[h] GC/MS NICI on a 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC-ECD (I) fractionated using a PYE column.

Table 7. Reference Mass Fraction Values for Selected Chlorinated Pesticides in SRM 1941b

Chlorinated Pesticides	Mass Fractions[a,b] (µg/kg)		
2,4'-DDE[c,d]	0.38	±	0.12
4,4'-DDT[e,f]	1.12	±	0.42

[a] Mass Fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.
[b] The reference values are unweighted means of the results from two analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the chlorinated pesticides listed as determined by the methods indicted. The values listed are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.
[c] GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).
[d] GC-ECD (IB) on a relatively non-polar proprietary phase; same extracts analyzed as in GC-ECD (IA).
[e] GC/MS (II) on a relatively non-polar proprietary phase after Soxhlet extraction with DCM.
[f] 1999 Interlaboratory Comparison Study [7] with 10 laboratories submitting data for 4,4'-DDT.

Table 8. Reference Mass Fraction Values for Alkylated PAH Groups in SRM 1941b

Alkylated PAH Group	Mass Fraction[a,b] (µg/kg)		
C2-decalins	18	±	5
C4-decalins	41	±	4
C2-naphthalenes	187	±	53
C3-naphthalenes	158	±	42
C1-benzothiophenes	25	±	14
C2-benzothiophenes	20	±	11
C3-benzothiophenes	22	±	13
C4-benzothiophenes	18	±	5
C1-fluorenes	57	±	18
C2-fluorenes	122	±	43
C3-fluorenes	128	±	31
C1-phenanthrenes/anthracenes	313	±	99
C2-phenanthrenes/anthracenes	247	±	62
C3-phenanthrenes/anthracenes	165	±	46
C4-phenanthrenes/anthracenes	87	±	36
C1-dibenzothiophenes	54	±	13
C2-dibenzothiophenes	91	±	18
C3-dibenzothiophenes	84	±	15
C4-dibenzothiophenes	57	±	13
C1-fluoranthenes/pyrenes	252	±	48
C2-fluoranthenes/pyrenes	205	±	38
C3-fluoranthenes/pyrenes	102	±	22
C4-fluoranthenes/pyrenes	121	±	59
C1-benzanthraces/chrysenes/triphenylenes	208	±	43
C2-benzanthraces/chrysenes/triphenylenes	120	±	24
C3-benzanthraces/chrysenes/triphenylenes	73	±	31
C4-benzanthraces/chrysenes/triphenylenes	41	±	11

[a] The reference mass fraction value reported on a dry-mass basis is the median of results using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the median, and the coverage factor, $k = 2$. The measurand is the total mass fraction of the alkylated PAH groups listed as determined by the interlaboratory study methods. The values listed are metrologically traceable to the SI unit of mass fraction, expressed as micrograms per kilogram on a dry-mass basis.
[b] Data from the interlaboratory study [12].

Table 9. Reference Mass Fraction Values for Hopanes and Steranes in SRM 1941b

Hopane or Sterane	Mass Fraction[a,b] (µg/kg)
17α(H)-22,29,30-Trisnorhopane	54 ± 18
17α(H)-21β(H)-30-Norhopane	137 ± 21
17α(H)-21β(H)-30-Hopane	215 ± 44
17α(H)-21β(H)-22R-Homohopane	44 ± 10
17α(H)-21β(H)-22S-Homohopane	48 ± 13
5α(H)-14α(H),17α(H)-Cholestane 20R	41 ± 11
5α(H)-14β(H),17β(H)-Cholestane 20R	27 ± 6
5α(H)-14β(H),17β(H)-24-Methylcholestane 20R	21 ± 8
5α(H)-14α(H),17α(H)-24-Ethylcholestane 20R	19 ± 5
5α(H)-14β(H),17β(H)-24-Ethylcholestane 20R	41 ± 9

[a] The reference mass fraction value reported on a dry-mass basis is the median of results using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the median, and the coverage factor, $k = 2$. The measurand is the total mass fraction of the constituent listed as determined by the methods used during the interlaboratory study. The values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.
[b] Data from the interlaboratory study [12].

Table 10. Reference Mass Fraction Value for Total Organic Carbon in SRM 1941b

Total Organic Carbon (TOC)	2.99 % ± 0.24 %[a,b]

[a] Mass fraction is reported on a dry-mass basis; material as received contains approximately 2.4 % moisture.
[b] The reference value for total organic carbon is a weighted mean value from routine measurements made by two laboratories [21]. The uncertainty listed is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance. The reporting follows the ISO/JCGM Guides [2]. The measurand is the total mass fraction of TOC listed as determined by the methods indicted. The values listed are metrologically traceable to the SI unit of mass, expressed as a percent on a dry-mass basis.

Table 11. Information Mass Fraction Values for Carbon, Hydrogen, and Nitrogen in SRM 1941b

Elements	Mass Fractions[a] (%)
Carbon	3.3
Hydrogen	1.2
Nitrogen	<0.5

[a] Mass fraction is reported on a dry-mass basis; material as received contains approximately 2.4 % moisture.

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Certificate Revision History: 16 January 2015 (Corrected IUPAC name for PCB-56 and PCB-107; editorial changes); 10 June 2014 (Units corrected from mg/kg to µg/kg in Tables 8 and 9; editorial changes); 10 April 2012 (Reference value added for alkylated PAH groups, hopanes, and steranes; extension of certification period; editorial changes); 16 August 2004 (Reference values for the butyl tins removed; editorial changes); 15 July 2002 (Original certificate date).

Users of this SRM should ensure that the Certificate of Analysis in their possession is current. This can be accomplished by contacting the SRM Program: telephone (301) 975-2200; fax (301) 948-3730; e-mail srminfo@nist.gov; or via the Internet at http://www.nist.gov/srm.

APPENDIX A

The laboratories listed below performed measurements that contributed to the certification of PAHs, PCBs, and chlorinated pesticides in SRM 1941b Organics in Marine Sediment.

Arthur D. Little, Inc; Cambridge, MA
Axys Analytical Services; Sidney, BC, Canada
B & B Laboratories; College Station, TX
Battelle Ocean Sciences; Duxbury, MA
Bedford Institute of Oceanography; Dartmouth, NS, Canada
California Department of Fish and Game; Rancho Cordova, CA
Central Contra Costa Sanitary District; Martinez, CA
Chesapeake Biological Laboratory; Solomons, MD
Centro de Investigacionies Energeticas Medioambientales y Tecnologicas; Madrid, Spain
City of Los Angeles Environmental Monitoring Division; Playa del Rey, CA
City of San Jose Environmental Services Department; San Jose, CA
Columbia Analytical Services; Kelso, WA
East Bay Municipal Utility District; Oakland, CA
Florida Department of Environmental Protection; Tallahassee, FL
Manchester Environmental Laboratory; Port Orchard, WA
Murray State University; Murray, KY
Massachusetts Water Resources Authority Central Lab; Winthrop, MA
National Research Council of Canada; Ottawa, Ontario, Canada
National Oceanic and Atmospheric Association (NOAA), National Marine Fisheries Service (NMFS), Auke Bay Laboratory; Juneau, AK
NOAA, National Ocean Service/Center for Coastal Environmental Health and Biomolecular Research; Charleston, SC
NOAA, NMFS, Sandy Hook Marine Laboratory; Highlands, NJ
NOAA, NMFS, Northwest Fisheries Science Center; Seattle, WA
Orange County Sanitation District; Fountain Valley, CA
Philip Analytical Services; Burlington, Ontario, Canada
Serv de Hidrografia Naval; Buenos Aires, Argentina
Skidaway Institute of Technology; Savannah, GA
Southwest Laboratory of Oklahoma; Broken Arrow, OK
Severn Trent Knoxville Laboratory; Knoxville, TN
Texas A&M University, Geochemical and Environmental Research Group; College Station, TX
Texas Parks and Wildlife Department; San Marcos, TX
University of California at Los Angeles, Institute of Geophysics and Planetary Physics; Los Angeles, CA
University of Connecticut, Environmental Research Institute; Storrs, CT
University of Rhode Island, Graduate School of Oceanography; Narragansett, RI
US Department of Agriculture, Environmental Chemistry Laboratory; Beltsville, MD
US Environmental Protection Agency, Atlantic Ecology Division; Narragansett, RI
US Geological Survey, National Water Quality Laboratory; Denver, CO
Woods Hole Group Environmental Lab; Raynham, MA
Wright State University; Dayton, OH

APPENDIX B

The laboratories listed below performed measurements that contributed to the certification of alkylated PAH groups, hopanes, and steranes in SRM 1941b Organics in Marine Sediment.

Alpha Analytical, Inc.; Mansfield, MA
Analytical Resources, Inc.; Tukwila, WA
Axys Analytical Services; Sydney, BC, Canada
Battelle Analytical & Environmental Chemistry Laboratory; Duxbury, MA
Center for Laboratory Sciences; Pasco, WA
Columbia Analytical Services; Jacksonville, FL
Columbia Analytical Services; Rochester, NY
Columbia Analytical Services, Kelso, WA
Florida Department of Environmental Protection; Tallahassee, FL
Florida International University; North Miami, FL
Michigan Department of Natural Resources and Environment; Lansing, MI
Mississippi State Chemical Laboratory; Mississippi State, MS
NIST; Charleston, SC
NIST; Gaithersburg, MD
NOAA/NCCOS/NOS; Charleston, SC
NOAA/NMFS/Alaska Fisheries Science Center; Juneau, AK
NY State Department of Health; Albany, NY
Pace Analytical Services, Inc. Minneapolis; Minneapolis, MN
RJ Lee Group, Inc; Monroeville, PA
TDI/B&B Laboratories, Inc.; College Station, TX
TestAmerica Laboratories; Mobile, AL
TestAmerica Laboratories; West Sacramento, CA
TestAmerica Laboratories; University Park, IL
TestAmerica Laboratories; Schriever, LA
TestAmerica Laboratories; Edison, NJ
TestAmerica Laboratories; Knoxville, TN
TestAmerica Laboratories; Pittsburgh, PA
TestAmerica Laboratories; South Burlington, VT
TestAmerica Laboratories; Tacoma, WA
US Army Engineer Research and Development Center; Vicksburg, MS
USGS Columbia Environmental Research Center; Columbia, MO
University of Iowa, State Hygienic Laboratory; Iowa City, IO
Washington State Public Health Laboratories; Shoreline, WA

NIST

Date of Issue:
31 March 2014

SAFETY DATA SHEET

1. Substance and Source Identification

Product Identifier

SRM Number: 1941b
SRM Name: Organics in Marine Sediment
Other Means of Identification: Not applicable.

Recommended Use of This Material and Restrictions of Use

This Standard Reference Material (SRM) is marine sediment collected at the mouth of the Baltimore (MD) Harbor. SRM 1941b is intended for use in evaluating analytical methods for the determination of selected polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCB) congeners, and chlorinated pesticides in marine sediment and similar matrices. All of the constituents for which certified, reference, and information values are provided in SRM 1941b were naturally present in the sediment before processing. A unit of SRM 1941b consists of a bottle containing 50 g of radiation-sterilized, freeze-dried sediment.

Company Information

National Institute of Standards and Technology
Standard Reference Materials Program
100 Bureau Drive, Stop 2300
Gaithersburg, Maryland 20899-2300

Telephone: 301-975-2200
FAX: 301-948-3730
E-mail: SRMMSDS@nist.gov
Website: http://www.nist.gov/srm

Emergency Telephone ChemTrec:
1-800-424-9300 (North America)
+1-703-527-3887 (International)

2. Hazards Identification

Classification

Physical Hazard: Not classified.
Health Hazard: Not classified.

Label Elements
Symbol
No Symbol/Pictogram

Signal Word
Not applicable.

Hazard Statement(s): Not applicable.

Precautionary Statement(s): Not applicable.

Hazards Not Otherwise Classified: Not applicable.

Ingredients(s) with Unknown Acute Toxicity: Not applicable.

3. Composition and Information on Hazardous Ingredients

Substance: Marine sediment

Other Designations: Sediment.

This material is naturally occurring marine sediment from an urban area. The material contains trace amounts of polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCB) congeners, and should be handled with care. Components are listed in compliance with OSHA's 29 CFR 1910.1200; for the actual values see the Certificate of Analysis.

Hazardous Component(s)	CAS Number	EC Number (EINECS)	Nominal Mass Concentration (%)
Marine Sediment	Not available	Not available	100

4. First Aid Measures

Description of First Aid Measures:

Inhalation: If adverse effects occur, remove to uncontaminated area. If not breathing, give artificial respiration or oxygen by qualified personnel. Seek immediate medical attention.

Skin Contact: Wash skin with soap and water.

Eye Contact: Flush eyes with water for at least 15 minutes. If necessary, seek medical attention.

Ingestion: If adverse effects occur after ingestion, seek medical treatment.

Most Important Symptoms/Effects, Acute and Delayed: May cause irritation.

Indication of any immediate medical attention and special treatment needed, if necessary: If any of the above symptoms are present, seek medical attention if needed.

5. Fire Fighting Measures

Fire and Explosion Hazards: Negligible fire hazard. Avoid generating dust. See Section 9, "Physical and Chemical Properties" for flammability properties.

Extinguishing Media:
Suitable: Use extinguishing media appropriate for surrounding fire.
Unsuitable: None listed.

Specific Hazards Arising from the Chemical: None listed.

Special Protective Equipment and Precautions for Fire-Fighters: Avoid inhalation of material or combustion byproducts. Wear full protective clothing and NIOSH approved self-contained breathing apparatus (SCBA).

NFPA Ratings (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

Health = 1 Fire = 0 Reactivity = 0

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Any accumulated material on surfaces should be removed and properly disposed of. Use suitable protective equipment; see Section 8, "Exposure Controls and Personal Protection".

Methods and Materials for Containment and Clean up: Collect spilled material in appropriate container for disposal. Keep out of water supplies and sewers. Keep unnecessary people away, isolate hazard area and deny entry.

7. Handling and Storage

Safe Handling Precautions: Minimize dust generation and accumulation on surfaces. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. See Section 8, "Exposure Controls and Personal Protection".

Storage: Store and handling in accordance with all current regulations and standards.

8. Exposure Controls and Personal Protection

Exposure Limits: No occupational exposure limits have been established for marine sediment. This material is a particulate matter and adequate inhalation/respiratory protection should be used to minimize exposure. The exposure limits for Particulates Not Otherwise Regulated (PNOR) are applicable.

OSHA (PEL): 15 mg/m^3 (TWA, total particulates not otherwise regulated)
OSHA (PEL) 5 mg/m^3 (TWA, respirable particulates not otherwise regulated)

NIOSH (REL): 10 mg/m^3 (TWA, total particulates not otherwise regulated, 8 h)
NIOSH (REL): 5 mg/m^3 (TWA, respirable particulates not otherwise regulated)

Engineering Controls: Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

Personal Protection: In accordance with OSHA 29 CFR 1910.132, subpart I, wear appropriate Personal Protective Equipment (PPE) to minimize exposure to this material.

Respiratory Protection: If workplace conditions warrant a respirator, a respiratory protection program that meets OSHA 29CFR 1910.134 must be followed. Refer to NIOSH 42 CFR 84 for applicable certified respirators.

Eye/Face Protection: Wear splash resistant safety goggles with a face shield. An eye wash station should be readily available near areas of use.

Skin and Body Protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Chemical-resistant gloves should be worn at all times when handling chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

Descriptive Properties:

Appearance (physical state, color, etc.):	amorphous powder
Molecular Formula:	not applicable
Molar Mass (g/mol):	not applicable
Odor:	not available
Odor threshold:	not available
pH:	not available
Evaporation rate:	not applicable
Melting point/freezing point (°C):	not available
Specific Gravity (water=1)	not available
Vapor Pressure (mmHg):	not applicable
Vapor Density (air = 1):	not applicable
Viscosity (cP):	not applicable
Solubility(ies):	not available
Partition coefficient (n-octanol/water):	not available
Particle Size:	<150 µm

Thermal Stability Properties:

Autoignition Temperature (°C):	not available
Thermal Decomposition (°C):	not available
Initial boiling point and boiling range (°C):	not available
Explosive Limits, LEL (Volume %):	not available
Explosive Limits, UEL (Volume %):	not available
Flash Point (°C):	not available
Flammability (solid, gas):	not available

10. STABILITY AND REACTIVITY

Reactivity: Stable at normal temperatures and pressure.

Stability: X Stable _____ Unstable

Possible Hazardous Reactions: None listed.

Conditions to Avoid: Avoid generating dust.

Incompatible Materials: None listed.

Fire/Explosion Information: See Section 5, "Fire Fighting Measures".

Hazardous Decomposition: Thermal decomposition will produce oxides of carbon.

Hazardous Polymerization: _____ Will Occur X Will Not Occur

11. TOXICOLOGICAL INFORMATION

Route of Exposure: __X__ Inhalation __X__ Skin _____ Ingestion

Symptoms Related to the Physical, Chemical and Toxicological Characteristics: Generated dust may cause irritation if inhaled.

Potential Health Effects (Acute, Chronic and Delayed):

Inhalation: Generated dust may cause irritation.

Skin Contact: May cause mechanical irritation.

Eye Contact: May cause mechanical irritation.

Ingestion: No data available.

Numerical Measures of Toxicity:

Acute Toxicity: Not classified; no data available.

Skin Corrosion/Irritation: Not classified; no data available.

Serious Eye damage/ Eye irritation: Not classified; no data available.

Respiratory Sensitization: Not classified; no data available.

Skin Sensitization: Not classified; no data available.

Germ Cell Mutagenicity: Not classified; no data available.

Carcinogenicity: Not classified.

Listed as a Carcinogen/Potential Carcinogen _____ Yes __X__ No
Marine sediment is not listed by NTP, IARC or OSHA as a carcinogen.

Reproductive Toxicity: Not classified; no data available.

Specific Target Organ Toxicity, Single Exposure: Not classified; no data available.

Specific Target Organ Toxicity, Repeated Exposure: Not classified; no data available.

Aspiration Hazard: Not classified; no data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity Data: No data available.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other Adverse effects: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of waste in accordance with all applicable federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

U.S. DOT and IATA: Not regulated by DOT or IATA.

15. REGULATORY INFORMATION

U.S. Regulations:

CERCLA Sections 102a/103 (40 CFR 302.4): Not regulated.

SARA Title III Section 302 (40 CFR 355.30): Not regulated.

SARA Title III Section 304 (40 CFR 355.40): Not regulated.

SARA Title III Sections 311/312 Hazardous Categories (40 CFR 370.21):

ACUTE HEALTH:	No.
CHRONIC HEALTH:	No.
FIRE:	No.
REACTIVE:	No.
PRESSURE:	No.

State Regulations:
California Proposition 65: Not listed.

U.S. TSCA Inventory: Not listed.

TSCA 12(b), Export Notification: Not listed.

Canadian Regulations:
WHMIS Information: Not provided for this material.

16. OTHER INFORMATION

Issue Date: 31 March 2014

Sources: 29 CFR Occupational Health and Safety Office (OSHA) 1910.1000, *Limits for Air Contaminants*, Table Z-1; available at http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=STANDARDS&p_id=9992 (accessed Mar 2014).

Center for Disease Control (CDC) NIOSH Pocket Guide to Chemical Hazards, *Particulates not otherwise regulated*; available at http://www.cdc.gov/niosh/npg/npgd0480.html (accessed Mar 2014).

Key of Acronyms:

ACGIH	American Conference of Governmental Industrial Hygienists	NRC	Nuclear Regulatory Commission
ALI	Annual Limit on Intake	NTP	National Toxicology Program
CAS	Chemical Abstracts Service	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
CFR	Code of Federal Regulations	RCRA	Resource Conservation and Recovery Act
DOT	Department of Transportation	REL	Recommended Exposure Limit
EC50	Effective Concentration, 50 %	RM	Reference Material
EINECS	European Inventory of Existing Commercial Chemical Substances	RQ	Reportable Quantity
EPCRA	Emergency Planning and Community Right-to-Know Act	RTECS	Registry of Toxic Effects of Chemical Substances
IARC	International Agency for Research on Cancer	SARA	Superfund Amendments and Reauthorization Act
IATA	International Air Transportation Agency	SCBA	Self-Contained Breathing Apparatus
IDLH	Immediately Dangerous to Life and Health	SRM	Standard Reference Material
LC50	Lethal Concentration, 50 %	STEL	Short Term Exposure Limit
LD50	Lethal Dose, 50 %	TLV	Threshold Limit Value
LEL	Lower Explosive Limit	TPQ	Threshold Planning Quantity
MSDS	Material Safety Data Sheet	TSCA	Toxic Substances Control Act
NFPA	National Fire Protection Association	TWA	Time Weighted Average
NIOSH	National Institute for Occupational Safety and Health	UEL	Upper Explosive Limit
NIST	National Institute of Standards and Technology	WHMIS	Workplace Hazardous Materials Information System

Disclaimer: Physical and chemical data contained in this SDS are provided only for use in assessing the hazardous nature of the material. The SDS was prepared carefully, using current references; however, NIST does not certify the data in the SDS. The certified values for this material are given in the NIST Certificate of Analysis.

Users of this SRM should ensure that the SDS in their possession is current. This can be accomplished by contacting the SRM Program: telephone (301) 975-2200; fax (301) 948-3730; e-mail SRMINFO@nist.gov; Internet at http://www.nist.gov/srm.

Bill to: 68455

DAVE MITCHELL
ANALYTICAL RESOURCES INC
4611 S 134TH PLACE
SUITE 100
TUKWILA, WA 98168-3240

1 (206)695-6205

Ship to: 68456

DAVE MITCHELL
ANALYTICAL RESOURCES INC
4611 S 134TH PLACE
SUITE 100
TUKWILA, WA 98168-3240

1 (206)695-6205

Ship via	UPS Ground	**Description**		**Ship from**	
Salesmen	MCMIDM2	**Instructions**		**Blanket**	
Contact	DAVE MITCHELL	**Pro#**		**Truck#**	

Order discrepancies (other than back ordered items) must be reported to our Customer Relations Department at 301-975-6776 within 5 days of receipt of shipment or this order will be considered complete. NIST SRMs/RMs are generally not returnable - with the exception of defective goods or shipments made in error by NIST. To return a SRM/RM, please call for instructions and a Return SRM/RM Authorization Number before shipment. Returns WILL NOT BE ACCEPTED without prior authorization.

Order	UOM	Ship	UOM	B/O	UOM	Item	Description
1	EACH	1	EACH	0	EACH	1941B	Organics in Marine Sediment
						Total qty:	1 / EACH
							NOT FOR HUMAN CONSUMPTION, LABORATORY USE ONLY.

9/21/16
04:04 PM

1700101

Picked by	
Packed by	
# of pieces	
Weight	

MP Biomedicals, LLC

29525 Fountain Parkway
Solon, Ohio 44139

Telephone: 440/337-1200
Toll Free: 800/854-0530

Fax: 440/337-1180
web: www.mpbio.com

Certificate of Analysis

Product Description: Microcrystalline Cellulose Powder_
Catalog Number: 191499_
Lot: Q9483_

Formula: $(C_6H_{10}O_5)n$	**Formula Weight:** N/A
CAS #: 9004-34-6	**Storage:** 15 - 30°C
Physical Description: White Powder	

Test	Specification	Result
Identity Test	Passes	Passes
Purity	97.0 - 102.0%	97.0 - 102.0%
Moisture	<5.0%	3.4%
Particle Size/Mesh +60 mesh +200 mesh	Wt % <8% >45%	 <1% 55%
pH	5 - 7	6.73
Residue on Ignition	<0.05%	<0.05%
Water Soluble Substances	<12.0 mg/5 g	4.5 mg/5 g
Heavy Metals	<10 ppm	<10 ppm

H001822
Microcrystalline Cellulose Powder (TOC)
Expires 11/30/2022
Prepared By Casey English 2/22/2019

Identification A & B: Passes
Bulk Density: 0.29 g/ml
Bulk Density (graduated cylinder): 0.31 g/ml
Conductivity: 18 µS/cm
Starch: Negative
Ether Soluble Substances: 0.01%
Total Aerobic microbial Count: 100 cfu/g
Total Mold and Yeast Count: 20 cfu/g
Staphylococcus aureus: Absent/1 g
Pseudomonas aeruginosa: Absent/1 g
E. coli: Absent/1 g
Salmonella: Absent/10 g
Particle size:

- 450 mesh: 77%
- d10: 37 um
- d50: 139 um
- d90: 271 um

TUP: <9/600 cm^2
Degree of brightness: >88%
Powder flow-angle of repose: <42°
Recommended Retest Date: 11/30/2022

07/26/2018 - *John Huang, PhD*
MP Biomedicals, LLC.
Quality Control Manager

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